

Source Test Report

All American Asphalt
10671 Jeffrey Road
Irvine, CA 92602

STID: PR21000

Source Tested: One (1) Carbon
Absorption Unit
Test Dates: March 17-19, 2021

STA Received:
4/20/2021

AST Project No. 2021-0883

Prepared By
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EMISSIONS MONITORING
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ANALYTICAL SERVICES
allianceanalyticalservices.com

Regulatory Information

Facility No. 082207
SCAQMD Application No. 623921

Source Information

| | | |
|--|------------------|---|
| <i>Source Name</i> | <i>Source ID</i> | <i>Target Parameters</i> |
| One (1) Carbon Adsorption Unit Inlet and Outlet | CAU | Metals, Toxic Organics, PAH, VOC, Total Sulfur |

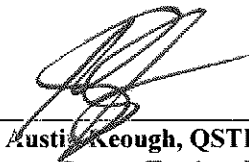
Contact Information

| | | |
|--|--|---|
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Alliance Source Testing, LLC (AST) has completed the source testing as described in this report. Results apply only to the source(s) tested and operating condition(s) for the specific test date(s) and time(s) identified within this report. All results are intended to be considered in their entirety, and AST is not responsible for use of less than the complete test report without written consent. This report shall not be reproduced in full or in part without written approval from the customer.

To the best of my knowledge and abilities, all information, facts and test data are correct. Data presented in this report has been checked for completeness and is accurate, error-free and legible. Onsite testing was conducted in accordance with approved internal Standard Operating Procedures. Any deviations or problems are detailed in the relevant sections on the test report.

This report is only considered valid once an authorized representative of AST has signed in the space provided below; any other version is considered draft. This document was prepared in portable document format (.pdf) and contains pages as identified in the bottom footer of this document.



Austin Keough, QSTI
Alliance Source Testing, LLC

April 16, 2021
Date

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Introduction

1.0 Introduction

Alliance Source Testing, LLC (AST) was retained by All American Asphalt, Corona (All American Asphalt) to conduct compliance testing at the Crumb Rubber Asphalt plant in Irvine, California. Testing was completed using the combined efforts of the Cypress, California and Salt Lake City, Utah facilities. The facility operates under South Coast Air Quality Management District Rule 441 and the SCAQMD Application No. 623921. Testing was conducted to determine the concentration and emission rates of multiple metals, toxic organics, polycyclic aromatic hydrocarbons (PAH), volatile organic compounds (VOC) and total sulfur compounds from the inlet and the outlet of the Carbon Adsorption Unit (CAU).

1.1 Source and Control System Descriptions

The CAU (A/N 623921) is identified as follows: 1) Carbon Adsorber, ENVENT Corporation, Model EC-2000, with Two Canisters in series (Primary and Secondary), each 3’-9.5” x 7’-10” and each with 2,000 pounds of activated carbon. 2) Venting Two Electrostatic Precipitators.

1.2 Project Team

Personnel involved in this project are identified in the following table.

**Table 1-1
Project Team**

| | |
|-------------------------|---|
| SCAQMD Personnel | Bill Welch |
| AST Personnel | Austin Keough Charles Figueroa Tobias Hubbard Robert Lewis George Huner Michael Benini |

1.3 Test Program Notes

Testing was conducted in compliance with the test protocol submitted by Airx Testing Services and accepted by the District (Ref: P21000) with the following deviations agreed to by the District:

Since the emissions expect to have no products of combustion, the Gas Density was agreed to be assumed as ambient and the continuous emission monitoring using SCAQMD Method 100.1 was removed from the test program

After additional review of the proposed test locations, SCAQMD 1.2 and 2.3 were agreed to be utilized at both test locations.

A total of three sets of sampling ports, each meeting the minimum straight run criteria were installed at both the 6” diameter inlet duct and outlet stack. The two upstream sets of ports were used for the isokinetic sampling for the PAH and Metals test program (1 set for each). The downstream set of ports was used to measure simultaneous flows for isokinetic calculations and mass emissions.

The inlet duct was a fixed section of PVC pipe that replaced a section of flexible ducting between the ESP and the first carbon cannister. his section of ducting was placed horizontally approximately 30 inches above ground level.

The exhaust duct was placed directly over the auxiliary blower exiting the second carbon cannister and extended vertically approximately 14-feet above ground level. The sample ports were accessible using a 6-foot temporary scaffold.

Summary of Results

2.0 Summary of Results

AST conducted compliance testing at the All American Asphalt Crumb Rubber Asphalt plant in Irvine, California on March 17-19, 2021. The test team setup on March 16, 2021 and collected preliminary flows and respective field blanks. Testing coincided with the normal production schedule from approximately 4am to noon each test day. Testing consisted of determining the emission rates of multiple metals, toxic organics, PAH, VOC and total sulfur compounds from the inlet and the outlet of the CAU.

The Crumb Rubber process is a batch process where the crumb rubber is added to the hopper approximately every two hours. During each of the AST 8-hour test runs crumb rubber hopper additions occurred at the beginning of our testing and then two additional times in 2-hr increments. The last two hours of the test program did not include a hopper addition (due to production demands) and the emission were primarily derived from the blending tank.

Although each the Metals and PAH sampling test were conducted over the entire 8-hr period, each of the other collected samples were collected in 1-hr increments. Each of these were sampled during the first 6 hours of process that would include the emissions from both the active hopper and the blending tank.

Tables 2-1 through 2-8 provide summaries of the emission testing results. Any difference between the summary results listed in the following tables and the detailed results contained in appendices is due to rounding for presentation.

**Table 2-1
Summary of Results – TRS**

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|-----------------------------|----------|----------|----------|----------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | – |
| Total Sulfur Data | | | | |
| Inlet Concentration, ppmvd | 2.9 | 4.8 | 4.1 | 3.9 |
| Inlet Emission Rate, lb/hr | 1.1E-02 | 1.7E-02 | 1.4E-02 | 1.4E-02 |
| Outlet Concentration, ppmvd | <0.050 | <0.050 | <0.050 | <0.050 |
| Outlet Emission Rate, lb/hr | <1.9E-04 | <1.9E-04 | <1.9E-04 | <1.9E-04 |

**Table 2-2
Summary of Results – TGNMEO**

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|---|---------|---------|---------|---------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | – |
| Total Gaseous Non-Methane/Ethane Organics Data | | | | |
| Inlet Concentration, ppmvd | 363.0 | 844.5 | 565.5 | 591.0 |
| Inlet Emission Rate, lb/hr (as methane) | 0.62 | 1.4 | 0.91 | 0.97 |
| Outlet Concentration, ppmvd | 13.6 | 6.8 | 13.3 | 11.2 |
| Outlet Emission Rate, lb/hr (as methane) | 0.024 | 0.012 | 0.023 | 0.020 |

Table 2-3
Summary of Results – TO-15 Inlet

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|--|----------|----------|----------|----------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| 1,3-Butadiene Concentration, ppbvd | <308.1 | <151.7 | <282.5 | <247.4 |
| 1,3-Butadiene Emission Rate, lb/hr | <1.8E-03 | <8.4E-04 | <1.5E-03 | <1.4E-03 |
| 2,2,4-Trimethylpentane Concentration, ppbvd | 146.5 | 202.2 | 121.1 | 156.6 |
| 2,2,4-Trimethylpentane Emission Rate, lb/hr | 1.8E-03 | 2.4E-03 | 1.4E-03 | 1.8E-03 |
| 2-Butanone (MEK) Concentration, ppbvd | 580.8 | 773.5 | 570.1 | 641.5 |
| 2-Butanone (MEK) Emission Rate, lb/hr | 4.5E-03 | 5.7E-03 | 4.1E-03 | 4.8E-03 |
| 4-Methyl-2-pentanone (MIBK) Concentration, ppbvd | 1,161.6 | 3,083.9 | 2,472.3 | 2,239.3 |
| 4-Methyl-2-pentanone (MIBK) Emission Rate, lb/hr | 1.2E-02 | 3.1E-02 | 2.5E-02 | 2.3E-02 |
| Acetone Concentration, ppbvd | 2,929.3 | 4,701.7 | 3,834.5 | 3,821.8 |
| Acetone Emission Rate, lb/hr | 1.8E-02 | 2.8E-02 | 2.2E-02 | 2.3E-02 |
| Benzene Concentration, ppbvd | 287.9 | 814.0 | 580.2 | 560.7 |
| Benzene Emission Rate, lb/hr | 2.4E-03 | 6.5E-03 | 4.6E-03 | 4.5E-03 |
| Cyclohexane Concentration, ppbvd | 545.5 | 1,006.1 | 615.5 | 722.4 |
| Cyclohexane Emission Rate, lb/hr | 4.9E-03 | 8.6E-03 | 5.2E-03 | 6.3E-03 |
| Ethanol Concentration, ppbvd | 4,646.5 | 8,695.7 | 6,054.5 | 6,465.5 |
| Ethanol Emission Rate, lb/hr | 2.3E-02 | 4.1E-02 | 2.8E-02 | 3.1E-02 |
| Ethylbenzene Concentration, ppbvd | 68.7 | 121.3 | 82.2 | 90.8 |
| Ethylbenzene Emission Rate, lb/hr | 7.8E-04 | 1.3E-03 | 8.8E-04 | 9.9E-04 |
| Heptane Concentration, ppbvd | 722.2 | 1,087.0 | 600.4 | 803.2 |
| Heptane Emission Rate, lb/hr | 7.7E-03 | 1.1E-02 | 6.1E-03 | 8.3E-03 |
| Hexane Concentration, ppbvd | 1,464.6 | 1,921.1 | 1,311.8 | 1,565.9 |
| Hexane Emission Rate, lb/hr | 1.4E-02 | 1.7E-02 | 1.1E-02 | 1.4E-02 |
| m-Xylene & p-Xylene Concentration, ppbvd | 580.8 | 1,668.4 | 1,311.8 | 1,187.0 |
| m-Xylene & p-Xylene Emission Rate, lb/hr | 6.6E-03 | 1.8E-02 | 1.4E-02 | 1.3E-02 |
| Methanol Concentration, ppbvd | 13,636.4 | 21,739.1 | 13,622.6 | 16,332.7 |
| Methanol Emission Rate, lb/hr | 4.7E-02 | 7.1E-02 | 4.4E-02 | 5.4E-02 |
| Propene Concentration, ppbvd | 2,878.8 | 3,488.4 | 2,775.0 | 3,047.4 |
| Propene Emission Rate, lb/hr | 1.3E-02 | 1.5E-02 | 1.2E-02 | 1.3E-02 |
| Toluene Concentration, ppbvd | 323.2 | 657.2 | 499.5 | 493.3 |
| Toluene Emission Rate, lb/hr | 3.2E-03 | 6.2E-03 | 4.6E-03 | 4.7E-03 |
| o-Xylene Concentration, ppbvd | <50.5 | 75.8 | 51.0 | 59.1 |
| o-Xylene Emission Rate, lb/hr | <5.7E-04 | 8.2E-04 | 5.5E-04 | 6.5E-04 |
| Carbon disulfide Concentration, ppbvd | 237.4 | 353.9 | 201.8 | 264.4 |
| Carbon disulfide Emission Rate, lb/hr | 1.9E-03 | 2.7E-03 | 1.5E-03 | 2.1E-03 |
| Chlorodifluoromethane (TIC *) Concentration, ppbvd | <474.7 | <121.3 | <272.5 | <289.5 |
| Chlorodifluoromethane (TIC) Emission Rate, lb/hr | <4.4E-03 | <1.1E-03 | <2.4E-03 | <2.6E-03 |
| Dichlorofluoromethane (TIC) Concentration, ppbvd | NA | NA | <131.2 | <131.2 |
| Dichlorofluoromethane (TIC) Emission Rate, lb/hr | NA | NA | <1.4E-03 | <1.4E-03 |

* TIC = tentatively identified compounds

Table 2-4
Summary of Results – TO-15 Outlet

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|---|----------|----------|----------|----------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| 1,3-Butadiene Concentration, ppbvd | <2.1 | <6.0 | <22.6 | <10.3 |
| 1,3-Butadiene Emission Rate, lb/hr | <1.2E-05 | <3.6E-05 | <1.3E-04 | <6.1E-05 |
| 2,2,4-Trimethylpentane Concentration, ppbvd | <0.68 | <2.0 | <7.5 | <3.4 |
| 2,2,4-Trimethylpentane Emission Rate, lb/hr | <8.5E-06 | <2.5E-05 | <9.4E-05 | <4.3E-05 |
| 2-Butanone (MEK) Concentration, ppbvd | <2.1 | <6.0 | <22.6 | <10.3 |
| 2-Butanone (MEK) Emission Rate, lb/hr | <1.6E-05 | <4.7E-05 | <1.8E-04 | <8.1E-05 |
| 4-Methyl-2-pentanone (MIBK) Concentration, ppbvd | <2.1 | <6.0 | <22.6 | <10.3 |
| 4-Methyl-2-pentanone (MIBK) Emission Rate, lb/hr | <2.3E-05 | <6.6E-05 | <2.5E-04 | <1.1E-04 |
| Acetone Concentration, ppbvd | 126.6 | <21.7 | <30.2 | <59.5 |
| Acetone Emission Rate, lb/hr | 8.1E-04 | <1.4E-04 | <1.9E-04 | <3.8E-04 |
| Benzene Concentration, ppbvd | <0.68 | <2.0 | <7.5 | <3.4 |
| Benzene Emission Rate, lb/hr | <5.8E-06 | <1.7E-05 | <6.4E-05 | <2.9E-05 |
| Cyclohexane Concentration, ppbvd | <0.68 | <2.0 | <7.5 | <3.4 |
| Cyclohexane Emission Rate, lb/hr | <6.2E-06 | <1.8E-05 | <6.9E-05 | <3.1E-05 |
| Ethanol Concentration, ppbvd | 11.5 | <20.2 | <75.5 | <35.7 |
| Ethanol Emission Rate, lb/hr | 5.8E-05 | <1.0E-04 | <3.8E-04 | <1.8E-04 |
| Ethylbenzene Concentration, ppbvd | <0.68 | <2.0 | <7.5 | <3.4 |
| Ethylbenzene Emission Rate, lb/hr | <7.9E-06 | <2.3E-05 | <8.8E-05 | <4.0E-05 |
| Heptane Concentration, ppbvd | <2.7 | <8.1 | <30.2 | <13.7 |
| Heptane Emission Rate, lb/hr | <3.0E-05 | <8.8E-05 | <3.3E-04 | <1.5E-04 |
| Hexane Concentration, ppbvd | <2.9 | <8.1 | <30.2 | <13.7 |
| Hexane Emission Rate, lb/hr | <2.8E-05 | <7.5E-05 | <2.8E-04 | <1.3E-04 |
| m-Xylene & p-Xylene Concentration, ppbvd | <2.7 | <8.1 | <30.2 | <13.7 |
| m-Xylene & p-Xylene Emission Rate, lb/hr | <3.2E-05 | <9.3E-05 | <3.5E-04 | <1.6E-04 |
| Methanol Concentration, ppbvd | 156.4 | 630.0 | 3,068.4 | 1,285.0 |
| Methanol Emission Rate, lb/hr | 5.5E-04 | 2.2E-03 | 1.1E-02 | 4.5E-03 |
| Propene Concentration, ppbvd | <13.6 | <40.3 | <150.9 | <68.3 |
| Propene Emission Rate, lb/hr | <6.3E-05 | <1.8E-04 | <6.9E-04 | <3.1E-04 |
| Toluene Concentration, ppbvd | <0.68 | <2.0 | <7.5 | <3.4 |
| Toluene Emission Rate, lb/hr | <6.8E-06 | <2.0E-05 | <7.6E-05 | <3.4E-05 |
| o-Xylene Concentration, ppbvd | <0.68 | <2.0 | <7.5 | <3.4 |
| o-Xylene Emission Rate, lb/hr | <7.9E-06 | <2.3E-05 | <8.8E-05 | <4.0E-05 |
| Chloromethane Concentration, ppbvd | <0.68 | 15.6 | 12.6 | 9.6 |
| Chloromethane Emission Rate, lb/hr | <3.7E-06 | 8.6E-05 | 6.9E-05 | 5.3E-05 |
| Carbon disulfide Concentration, ppbvd | <2.7 | <8.1 | <30.2 | <13.7 |
| Carbon disulfide Emission Rate, lb/hr | <2.3E-05 | <6.7E-05 | <2.5E-04 | <1.1E-04 |
| Chlorodifluoromethane (TIC*) Concentration, ppbvd | NA | 19.2 | 68.9 | 44.0 |
| Chlorodifluoromethane (TIC) Emission Rate, lb/hr | NA | 1.8E-04 | 6.5E-04 | 4.2E-04 |
| Dichlorofluoromethane (TIC) Concentration, ppbvd | NA | NA | NA | NA |
| Dichlorofluoromethane (TIC) Emission Rate, lb/hr | NA | NA | NA | NA |

* TIC = tentatively identified compounds

Table 2-5
Summary of Results – PAH Inlet

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|--|----------|----------|----------|----------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | – |
| Naphthalene Concentration, ng/dscm | 355,008 | 421,597 | 414,599 | 397,068 |
| Naphthalene Emission Rate, lb/hr | 9.0E-04 | 1.0E-03 | 1.0E-03 | 9.7E-04 |
| 2-Methylnaphthalene Concentration, ng/dscm | 109,075 | 142,949 | 160,060 | 137,361 |
| 2-Methylnaphthalene Emission Rate, lb/hr | 2.8E-04 | 3.5E-04 | 3.8E-04 | 3.4E-04 |
| Acenaphthylene Concentration, ng/dscm | <514.5 | <517.9 | 641.3 | 557.9 |
| Acenaphthylene Emission Rate, lb/hr | <1.3E-06 | <1.3E-06 | 1.5E-06 | 1.4E-06 |
| Acenaphthene Concentration, ng/dscm | 889.1 | 1,212.0 | 1,333.8 | 1,145.0 |
| Acenaphthene Emission Rate, lb/hr | 2.3E-06 | 2.9E-06 | 3.2E-06 | 2.8E-06 |
| Fluorene Concentration, ng/dscm | 770.7 | 811.1 | 967.0 | 849.6 |
| Fluorene Emission Rate, lb/hr | 2.0E-06 | 2.0E-06 | 2.3E-06 | 2.1E-06 |
| Phenanthrene Concentration, ng/dscm | 726.5 | 1,429.5 | 1,344.9 | 1,167.0 |
| Phenanthrene Emission Rate, lb/hr | 1.8E-06 | 3.5E-06 | 3.2E-06 | 2.8E-06 |
| Anthracene Concentration, ng/dscm | 882.9 | 695.1 | 875.9 | 817.9 |
| Anthracene Emission Rate, lb/hr | 2.2E-06 | 1.7E-06 | 2.1E-06 | 2.0E-06 |
| Fluoranthene Concentration, ng/dscm | 36.1 | 25.2 | 68.0 | 43.1 |
| Fluoranthene Emission Rate, lb/hr | 9.2E-08 | 6.1E-08 | 1.6E-07 | 1.1E-07 |
| Pyrene Concentration, ng/dscm | 80.9 | 56.4 | 147.8 | 95.0 |
| Pyrene Emission Rate, lb/hr | 2.1E-07 | 1.4E-07 | 3.6E-07 | 2.3E-07 |
| Benz(a)anthracene Concentration, ng/dscm | 1.1 | 1.2 | 1.7 | 1.3 |
| Benz(a)anthracene Emission Rate, lb/hr | 2.9E-09 | 2.9E-09 | 4.0E-09 | 3.3E-09 |
| Chrysene Concentration, ng/dscm | 8.5 | 9.1 | 11.7 | 9.8 |
| Chrysene Emission Rate, lb/hr | 2.2E-08 | 2.2E-08 | 2.8E-08 | 2.4E-08 |
| Benzo(b)fluoranthene Concentration, ng/dscm | 2.1 | 1.5 | 7.1 | 3.6 |
| Benzo(b)fluoranthene Emission Rate, lb/hr | 5.4E-09 | 3.7E-09 | 1.7E-08 | 8.7E-09 |
| Benzo(k)fluoranthene Concentration, ng/dscm | <1.0 | <1.0 | 1.7 | 1.3 |
| Benzo(k)fluoranthene Emission Rate, lb/hr | <2.6E-09 | <2.5E-09 | 4.2E-09 | 3.1E-09 |
| Benzo(e)pyrene Concentration, ng/dscm | 9.9 | 7.1 | 51.2 | 22.7 |
| Benzo(e)pyrene Emission Rate, lb/hr | 2.5E-08 | 1.7E-08 | 1.2E-07 | 5.5E-08 |
| Benzo(a)pyrene Concentration, ng/dscm | 2.5 | 1.7 | 5.6 | 3.2 |
| Benzo(a)pyrene Emission Rate, lb/hr | 6.3E-09 | 4.0E-09 | 1.3E-08 | 7.9E-09 |
| Perylene Concentration, ng/dscm | 1.0 | 1.2 | 1.2 | 1.1 |
| Perylene Emission Rate, lb/hr | 2.6E-09 | 2.9E-09 | 2.9E-09 | 2.8E-09 |
| Indeno(1,2,3-c,d)pyrene Concentration, ng/dscm | 3.2 | 1.6 | 10.3 | 5.0 |
| Indeno(1,2,3-c,d)pyrene Emission Rate, lb/hr | 8.2E-09 | 3.8E-09 | 2.5E-08 | 1.2E-08 |
| Dibenz(a,h)anthracene Concentration, ng/dscm | <1.0 | <1.0 | <1.1 | <1.1 |
| Dibenz(a,h)anthracene Emission Rate, lb/hr | <2.6E-09 | <2.5E-09 | <2.7E-09 | <2.6E-09 |
| Benzo(g,h,i)perylene Concentration, ng/dscm | 25.8 | 12.4 | 70.0 | 36.1 |
| Benzo(g,h,i)perylene Emission Rate, lb/hr | 6.6E-08 | 3.0E-08 | 1.7E-07 | 8.8E-08 |

Table 2-6
Summary of Results – PAH Outlet

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|--|----------|----------|----------|----------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | – |
| Naphthalene Concentration, ng/dscm | 52.1 | 31.3 | 22.5 | 35.3 |
| Naphthalene Emission Rate, lb/hr | 1.4E-07 | 8.0E-08 | 5.8E-08 | 9.1E-08 |
| 2-Methylnaphthalene Concentration, ng/dscm | 68.2 | 41.2 | 33.1 | 47.5 |
| 2-Methylnaphthalene Emission Rate, lb/hr | 1.8E-07 | 1.1E-07 | 8.5E-08 | 1.2E-07 |
| Acenaphthylene Concentration, ng/dscm | 2.4 | 1.4 | 1.5 | 1.8 |
| Acenaphthylene Emission Rate, lb/hr | 6.3E-09 | 3.7E-09 | 3.9E-09 | 4.6E-09 |
| Acenaphthene Concentration, ng/dscm | 96.8 | 63.4 | 60.3 | 73.5 |
| Acenaphthene Emission Rate, lb/hr | 2.5E-07 | 1.6E-07 | 1.6E-07 | 1.9E-07 |
| Fluorene Concentration, ng/dscm | 256.4 | 169.1 | 150.9 | 192.1 |
| Fluorene Emission Rate, lb/hr | 6.7E-07 | 4.3E-07 | 3.9E-07 | 5.0E-07 |
| Phenanthrene Concentration, ng/dscm | 256.4 | 255.0 | 216.6 | 242.6 |
| Phenanthrene Emission Rate, lb/hr | 6.7E-07 | 6.5E-07 | 5.6E-07 | 6.3E-07 |
| Anthracene Concentration, ng/dscm | 6.7 | 5.8 | 5.2 | 5.9 |
| Anthracene Emission Rate, lb/hr | 1.7E-08 | 1.5E-08 | 1.3E-08 | 1.5E-08 |
| Fluoranthene Concentration, ng/dscm | 10.8 | 10.2 | 8.0 | 9.7 |
| Fluoranthene Emission Rate, lb/hr | 2.8E-08 | 2.6E-08 | 2.1E-08 | 2.5E-08 |
| Pyrene Concentration, ng/dscm | 15.0 | 17.2 | 14.9 | 15.7 |
| Pyrene Emission Rate, lb/hr | 3.9E-08 | 4.4E-08 | 3.8E-08 | 4.0E-08 |
| Benz(a)anthracene Concentration, ng/dscm | <0.90 | <0.89 | <0.89 | <0.89 |
| Benz(a)anthracene Emission Rate, lb/hr | <2.3E-09 | <2.3E-09 | <2.3E-09 | <2.3E-09 |
| Chrysene Concentration, ng/dscm | 2.1 | 1.5 | 1.2 | 1.6 |
| Chrysene Emission Rate, lb/hr | 5.4E-09 | 3.9E-09 | 3.2E-09 | 4.1E-09 |
| Benzo(b)fluoranthene Concentration, ng/dscm | <0.90 | <0.89 | <0.89 | <0.89 |
| Benzo(b)fluoranthene Emission Rate, lb/hr | <2.3E-09 | <2.3E-09 | <2.3E-09 | <2.3E-09 |
| Benzo(k)fluoranthene Concentration, ng/dscm | <0.90 | <0.89 | <0.89 | <0.89 |
| Benzo(k)fluoranthene Emission Rate, lb/hr | <2.3E-09 | <2.3E-09 | <2.3E-09 | <2.3E-09 |
| Benzo(e)pyrene Concentration, ng/dscm | 2.2 | 2.2 | 2.8 | 2.4 |
| Benzo(e)pyrene Emission Rate, lb/hr | 5.8E-09 | 5.5E-09 | 7.3E-09 | 6.2E-09 |
| Benzo(a)pyrene Concentration, ng/dscm | <0.90 | <0.89 | <0.89 | <0.89 |
| Benzo(a)pyrene Emission Rate, lb/hr | <2.3E-09 | <2.3E-09 | <2.3E-09 | <2.3E-09 |
| Perylene Concentration, ng/dscm | <0.90 | <0.89 | <0.89 | <0.89 |
| Perylene Emission Rate, lb/hr | <2.3E-09 | <2.3E-09 | <2.3E-09 | <2.3E-09 |
| Indeno(1,2,3-c,d)pyrene Concentration, ng/dscm | 0.98 | 1.1 | 1.1 | 1.1 |
| Indeno(1,2,3-c,d)pyrene Emission Rate, lb/hr | 2.5E-09 | 2.8E-09 | 2.9E-09 | 2.7E-09 |
| Dibenz(a,h)anthracene Concentration, ng/dscm | <0.90 | <0.89 | <0.89 | <0.89 |
| Dibenz(a,h)anthracene Emission Rate, lb/hr | <2.3E-09 | <2.3E-09 | <2.3E-09 | <2.3E-09 |
| Benzo(g,h,i)perylene Concentration, ng/dscm | 7.4 | 9.0 | 9.1 | 8.5 |
| Benzo(g,h,i)perylene Emission Rate, lb/hr | 1.9E-08 | 2.3E-08 | 2.3E-08 | 2.2E-08 |

Table 2-7
Summary of Results – Metals Inlet

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|-----------------------------------|----------|----------|----------|----------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | – |
| Aluminum Concentration, ug/dscm | 9.4 | 9.1 | 9.7 | 9.4 |
| Aluminum Emission Rate, lb/hr | 2.4E-05 | 2.2E-05 | 2.3E-05 | 2.3E-05 |
| Antimony Concentration, ug/dscm | <0.064 | <0.066 | <0.069 | <0.066 |
| Antimony Emission Rate, lb/hr | <1.6E-07 | <1.6E-07 | <1.6E-07 | <1.6E-07 |
| Arsenic Concentration, ug/dscm | 0.083 | 0.039 | 0.027 | 0.050 |
| Arsenic Emission Rate, lb/hr | 2.1E-07 | 9.4E-08 | 6.5E-08 | 1.2E-07 |
| Barium Concentration, ug/dscm | 0.50 | 0.64 | 0.74 | 0.63 |
| Barium Emission Rate, lb/hr | 1.3E-06 | 1.5E-06 | 1.8E-06 | 1.5E-06 |
| Beryllium Concentration, ug/dscm | <0.22 | <0.22 | <0.23 | <0.22 |
| Beryllium Emission Rate, lb/hr | <5.5E-07 | <5.4E-07 | <5.6E-07 | <5.5E-07 |
| Cadmium Concentration, ug/dscm | 0.016 | 0.016 | <0.014 | 0.015 |
| Cadmium Emission Rate, lb/hr | 4.1E-08 | 3.7E-08 | <3.4E-08 | 3.7E-08 |
| Chromium Concentration, ug/dscm | 0.35 | 0.24 | 0.20 | 0.26 |
| Chromium Emission Rate, lb/hr | 8.9E-07 | 5.8E-07 | 4.8E-07 | 6.5E-07 |
| Cobalt Concentration, ug/dscm | 0.0094 | 0.0057 | 0.0005 | 0.0052 |
| Cobalt Emission Rate, lb/hr | 2.4E-08 | 1.4E-08 | 1.3E-09 | 1.3E-08 |
| Copper Concentration, ug/dscm | 0.43 | 0.24 | 0.93 | 0.53 |
| Copper Emission Rate, lb/hr | 1.1E-06 | 5.8E-07 | 2.2E-06 | 1.3E-06 |
| Lead Concentration, ug/dscm | 0.16 | 0.05 | 0.05 | 0.09 |
| Lead Emission Rate, lb/hr | 4.1E-07 | 1.2E-07 | 1.1E-07 | 2.1E-07 |
| Manganese Concentration, ug/dscm | 0.77 | 0.47 | 0.28 | 0.51 |
| Manganese Emission Rate, lb/hr | 2.0E-06 | 1.1E-06 | 6.8E-07 | 1.3E-06 |
| Nickel Concentration, ug/dscm | 0.42 | 0.32 | 0.25 | 0.33 |
| Nickel Emission Rate, lb/hr | 1.1E-06 | 7.7E-07 | 6.1E-07 | 8.1E-07 |
| Phosphorus Concentration, ug/dscm | 3.0 | 3.1 | 2.6 | 2.9 |
| Phosphorus Emission Rate, lb/hr | 7.7E-06 | 7.5E-06 | 6.3E-06 | 7.2E-06 |
| Selenium Concentration, ug/dscm | <0.026 | <0.026 | 0.028 | 0.027 |
| Selenium Emission Rate, lb/hr | <6.5E-08 | <6.3E-08 | 6.8E-08 | 6.5E-08 |
| Silver Concentration, ug/dscm | 0.083 | 0.035 | 0.019 | 0.046 |
| Silver Emission Rate, lb/hr | 2.1E-07 | 8.4E-08 | 4.6E-08 | 1.1E-07 |
| Thallium Concentration, ug/dscm | <0.0051 | <0.0052 | <0.0055 | <0.0053 |
| Thallium Emission Rate, lb/hr | <1.3E-08 | <1.3E-08 | <1.3E-08 | <1.3E-08 |
| Vanadium Concentration, ug/dscm | <0.017 | <0.017 | <0.018 | <0.018 |
| Vanadium Emission Rate, lb/hr | <4.3E-08 | <4.2E-08 | <4.4E-08 | <4.3E-08 |
| Zinc Concentration, ug/dscm | 0.93 | 0.80 | 0.97 | 0.90 |
| Zinc Emission Rate, lb/hr | 2.3E-06 | 1.9E-06 | 2.3E-06 | 2.2E-06 |
| Mercury Concentration, ug/dscm | 0.18 | <0.084 | <0.18 | 0.15 |
| Mercury Emission Rate, lb/hr | 4.7E-07 | <2.0E-07 | <4.2E-07 | 3.6E-07 |

Table 2-8
Summary of Results – Metals Outlet

| Run Number | Run 1 | Run 2 | Run 3 | Average |
|-----------------------------------|----------------|----------------|----------------|----------------|
| Date | 3/17/21 | 3/18/21 | 3/19/21 | – |
| Aluminum Concentration, ug/dscm | 10.2 | 9.9 | 10.7 | 10.3 |
| Aluminum Emission Rate, lb/hr | 2.6E-05 | 2.5E-05 | 2.8E-05 | 2.6E-05 |
| Antimony Concentration, ug/dscm | <0.063 | <0.061 | <0.061 | <0.062 |
| Antimony Emission Rate, lb/hr | <1.6E-07 | <1.6E-07 | <1.6E-07 | <1.6E-07 |
| Arsenic Concentration, ug/dscm | <0.025 | <0.024 | <0.024 | <0.024 |
| Arsenic Emission Rate, lb/hr | <6.5E-08 | <6.2E-08 | <6.2E-08 | <6.3E-08 |
| Barium Concentration, ug/dscm | 0.78 | 0.60 | 0.73 | 0.70 |
| Barium Emission Rate, lb/hr | 2.0E-06 | 1.5E-06 | 1.9E-06 | 1.8E-06 |
| Beryllium Concentration, ug/dscm | <0.21 | <0.21 | <0.21 | <0.21 |
| Beryllium Emission Rate, lb/hr | <5.5E-07 | <5.3E-07 | <5.3E-07 | <5.4E-07 |
| Cadmium Concentration, ug/dscm | 0.028 | 0.018 | 0.013 | 0.020 |
| Cadmium Emission Rate, lb/hr | 7.2E-08 | 4.6E-08 | 3.5E-08 | 5.1E-08 |
| Chromium Concentration, ug/dscm | 0.41 | 0.17 | 0.21 | 0.26 |
| Chromium Emission Rate, lb/hr | 1.1E-06 | 4.4E-07 | 5.5E-07 | 6.8E-07 |
| Cobalt Concentration, ug/dscm | 0.030 | 0.014 | 0.030 | 0.025 |
| Cobalt Emission Rate, lb/hr | 7.7E-08 | 3.7E-08 | 7.8E-08 | 6.4E-08 |
| Copper Concentration, ug/dscm | 0.24 | 0.31 | 0.86 | 0.47 |
| Copper Emission Rate, lb/hr | 6.2E-07 | 8.0E-07 | 2.2E-06 | 1.2E-06 |
| Lead Concentration, ug/dscm | 0.057 | 0.049 | 0.12 | 0.074 |
| Lead Emission Rate, lb/hr | 1.5E-07 | 1.3E-07 | 3.0E-07 | 1.9E-07 |
| Manganese Concentration, ug/dscm | 1.5 | 1.9 | 1.3 | 1.6 |
| Manganese Emission Rate, lb/hr | 3.8E-06 | 4.8E-06 | 3.5E-06 | 4.0E-06 |
| Nickel Concentration, ug/dscm | 0.33 | 0.23 | 0.32 | 0.30 |
| Nickel Emission Rate, lb/hr | 8.6E-07 | 6.0E-07 | 8.3E-07 | 7.6E-07 |
| Phosphorus Concentration, ug/dscm | 2.2 | 2.3 | 2.9 | 2.5 |
| Phosphorus Emission Rate, lb/hr | 5.7E-06 | 6.0E-06 | 7.4E-06 | 6.4E-06 |
| Selenium Concentration, ug/dscm | <0.025 | <0.024 | <0.024 | <0.024 |
| Selenium Emission Rate, lb/hr | <6.5E-08 | <6.2E-08 | <6.2E-08 | <6.3E-08 |
| Silver Concentration, ug/dscm | 0.015 | 0.016 | 0.0065 | 0.013 |
| Silver Emission Rate, lb/hr | 3.8E-08 | 4.1E-08 | 1.7E-08 | 3.2E-08 |
| Thallium Concentration, ug/dscm | <0.0050 | <0.0048 | <0.0048 | <0.0049 |
| Thallium Emission Rate, lb/hr | <1.3E-08 | <1.2E-08 | <1.2E-08 | <1.3E-08 |
| Vanadium Concentration, ug/dscm | <0.017 | <0.016 | <0.016 | <0.016 |
| Vanadium Emission Rate, lb/hr | <4.3E-08 | <4.1E-08 | <4.2E-08 | <4.2E-08 |
| Zinc Concentration, ug/dscm | 0.65 | 0.90 | 1.3 | 0.96 |
| Zinc Emission Rate, lb/hr | 1.7E-06 | 2.3E-06 | 3.5E-06 | 2.5E-06 |
| Mercury Concentration, ug/dscm | <0.18 | <0.063 | <0.094 | <0.11 |
| Mercury Emission Rate, lb/hr | <4.6E-07 | <1.6E-07 | <2.4E-07 | <2.9E-07 |

Testing Methodology

3.0 Testing Methodology

The emission testing program was conducted in accordance with the test methods listed in Table 3-1. Method descriptions are provided below while quality assurance/quality control data is provided in Appendix D.

Table 3-1
Source Testing Methodology

| Parameter | Reference Test Methods | Notes/Remarks |
|----------------------------------|----------------------------|-------------------------|
| Volumetric Flow Rate | SCAQMD Methods 1.2 and 2.3 | Full Velocity Traverses |
| Moisture Content | SCAQMD Method 4.1 | Gravimetric Analysis |
| Multiple Metals | CARB Method 436 | Isokinetic Sampling |
| Toxic Organics | U.S. EPA TO-15 | Canister Sampling |
| Polycyclic Aromatic Hydrocarbons | CARB Method 429 | Isokinetic Sampling |
| Volatile Organic Compounds | SCAQMD Methods 25.1 & 25.3 | Canister Sampling |
| Total Sulfur Compounds | SCAQMD Method 307.91 | Tedlar Bag Sampling |

3.1 SCAQMD Reference Methods 1.2 and 2.3 – Volumetric Flow Rate of Small Ducts (4” – 12”)

The sampling location and number of traverse (sampling) points were selected in accordance with SCAQMD Reference Test Method 1.2. The duct diameter was less than 12 inches; therefore, the velocity measurement location was located downstream of the sampling location, and the pitot tube and thermocouple were removed from the sampling probe assembly.

Full velocity traverses were conducted in accordance with SCAQMD Reference Test Method 2.3 to determine the average stack gas velocity pressure, static pressure and temperature. The velocity and static pressure measurement system consisted of a pitot tube and inclined manometer. The stack gas temperature was measured with a K-type thermocouple and pyrometer.

The O₂ and CO₂ concentration were assumed to be ambient for molecular weight and volumetric flow rate calculations.

3.2 SCAQMD Method 4.1 – Moisture Content

The stack gas moisture content was determined in accordance with SCAQMD Method 4.1. The gas conditioning train consisted of a series of chilled impingers. Prior to testing, each impinger was filled with a known quantity of water or silica gel. Each impinger was analyzed gravimetrically before and after each test run on the same balance to determine the amount of moisture condensed.

3.3 CARB Reference Test Method 436 – Multi-Metals

The metals testing was conducted in accordance with CARB Reference Test Method 436. The complete sampling system consisted of a glass nozzle, glass-lined probe, pre-cleaned heated quartz filter, gas conditioning system, pump and calibrated dry gas meter. The gas conditioning train consisted of six (6) chilled impingers. The first and second contained 100 mL of HNO₃/H₂O₂, the third was empty, the fourth and fifth contained 100 mL of acidic KMnO₄, and the sixth contained 200-300 grams of silica gel. The probe liner and filter heating systems were

maintained at a temperature of $120 \pm 14^{\circ}\text{C}$ ($248 \pm 25^{\circ}\text{F}$), and the impinger temperature was maintained at 20°C (68°F) or less throughout testing. Prior to testing, all glassware was cleaned and sealed in a controlled environment as outlined in the test method.

Following the completion of each test run, the sample train was leak checked at a vacuum pressure equal to or greater than the highest vacuum pressure observed during the run and the contents of the impingers were measured for moisture gain. The quartz filter was carefully removed and placed into container 1. The probe and nozzle were rinsed and brushed three (3) times with 0.1 N HNO_3 using a non-metallic brush and these rinses were placed in container 3. The front half of the filter holder was rinsed three (3) times with 0.1 N HNO_3 and these rinses were added to container 3. The contents of impingers 1, 2, and 3 were placed in container 4. Impingers 1, 2, and 3 along with the filter support, back half of the filter holder and all connecting glassware were triple-rinsed with 0.1 N HNO_3 and these rinses were added to container 4. The contents of impinger 4 were placed in container 5A. The impinger and connecting glassware were triple-rinsed with HNO_3 and these rinses added to container 5A. The contents of impingers 5 and 6 were placed in container 5B. The impingers and all connecting glassware were triple-rinsed with acidified KMnO_4 and then with de-ionized (DI) water and these rinses were added to container 5B. Impingers 5 and 6 were rinsed again with 25 mL of 8N HCl and this rinse was collected into container 5C, which contained 200 mL of DI water. All containers were sealed, labeled and liquid levels marked for transport to the identified laboratory for analysis.

3.4 U.S. EPA Reference Test Method TO-15– Toxic Organics

The toxic organics were sample simultaneously in duplicate from the CAU inlet and outlet for each of the three (3) 60-minute test runs. Summa passivated canisters were utilized to sample for the toxic organics. The Summa canisters were equipped with preset calibrated mass flow controllers. The sampling was integrated over each 60 minute test run. The sample were submitted for analyses by GC/MS (TO-15). The samples were analyzed within 72 hours of collection. The analysis followed EPA Method TO-15 methodology. The reported detection limit is 0.001ppmv or 1 ppb. The sample is cryogenically pre-concentration in a series of multi-bed traps, with water and CO_2 management protocols, and finally cryofocused before desorption into the gas chromatograph.

Upon separation in the Gas Chromatograph, the sample is introduced into the mass spectrometer. The HAPs characteristic retention time and mass spectra qualitatively identify compounds.

3.5 CARB Reference Test Method 429 – Polycyclic Aromatic Hydrocarbons

The PAH testing was conducted in accordance with CARB Method 429. The complete sampling system consisted of a glass nozzle, glass-lined sample probe, gas conditioning system, pump, and calibrated gas meter. The gas conditioning train consisted of a spiral condenser, a spike sorbent module, and five (5) chilled impingers. The first impinger was initially empty, the second and third impingers contained 100ml of DI water, the third impinger was initially empty, and the fourth contained 200-300 grams of silica gel. The probe liner and filter heater system were maintained at a temperature of $120 \pm 14^{\circ}\text{C}$ ($248 \pm 25^{\circ}\text{F}$), and the impinger temperature was maintained at 20°C (68°F) or less throughout testing. Prior to testing, all glassware was cleaned and sealed in a controlled environment as outlined in the test method.

Following the completion of each test run, the sample train was leak checked at a vacuum pressure equal to or greater than the highest vacuum pressure observed during the run and the contents of the impingers were measured for moisture gain. The recovery included rinsing the nozzle, probe, and top half of the filter holder three (3) times with acetone, hexane and methylene chloride with the rinses placed into a glass container labeled as "Front half

rinses”. The filter was removed and placed in a petri dish. The bottom half of the filter holder, connector connection, and the spiral condenser were rinses three (3) times with acetone, hexane and methylene chloride with the rinses placed into a glass container labeled as “Back half rinses”. The front and back half rinses were combined for analysis. The impinger contents were transferred to a container labeled “Impinger contents” and then the impingers were rinses three (3) times with acetone, hexane and methylene chloride with the rinses placed into a glass container labeled as “Impinger rinses”. The rinses were combined with the impinger contents for analysis. The spiked sorbent module was capped, and all containers were sealed, labeled and liquid levels marked for transport to the identified laboratory for analysis.

Add this for the Method 25.1 and 25.3 – our standard write ups – please format as needed

3.6 SCAQMD Method 25.3 – VOC, as TGNMO (Low- Level)

This method applies to the measurement of low-concentration (≤ 50 ppmv) Volatile Organic Compounds (VOC) or total gaseous non-methane organics (TGNMO) as carbon in source emissions. In this method, gaseous samples were withdrawn from the gas stream at a constant rate through duplicate chilled condensate traps and collected in evacuated sample tanks. The sampling system is depicted in Figure 5-2. Each sampling train consisted of a in-stack filter (optional), sample probe, water-chilled mini-impinger, a flow control system, and an evacuated sample tank. The flow controller incorporated a combination vacuum/pressure gauge, which was connected directly to the canister. The TGNMO was determined by combining the analytical results obtained from independent analyses of the condensate traps (condensable fraction) and the sample tanks (gaseous fraction).

Prior to testing, the sampling system was pre-cleaned and evacuated in preparation for sample collection. On-site, the sampling system was leak-checked and the impingers were placed in an ice-slurry (the impingers were chilled for at least 30 minutes prior to sampling). Then the sample probe was placed in the stack, facing downstream to prevent collection of particulate matter. Pretest data was recorded and the sample valve was opened. The flow controller was based on a critical orifice that was preset to flow at a rate of 80-cc/min \pm 15%. Periodically, sampling train readings (i.e. tank vacuum) were recorded on the field data sheet. Sampling was stopped when one hour had elapsed. Then, the sampling train was removed from the stack and a leak check is performed. Samples are logged in and delivered to the laboratory for analysis.

The analytical system consists of two major sub-systems: a total organic carbon (TOC) analyzer capable of differentiating between total carbon (TC) and inorganic carbon (IC) and a non-methane organics (NMO) analyzer. The NMO analyzer is a gas chromatograph (GC) with backflush capability for NMO analysis and is equipped with an oxidation catalyst, reduction catalyst, and flame ionization detector (FID). The system for the recovery and conditioning of the organics captured in the condensate trap consists of a heat source, oxidation catalyst, non-dispersive infrared (NDIR) CO₂ analyzer and an intermediate collection vessel (ICV). Analyses were performed as follows.

NMO collected in the water impinger were analyzed in the TOC analyzer. The TOC analyzer determined both TC and IC. The TOC was calculated as the difference between TC and IC.

The organic content of the sample fraction collected in the sampling tank is measured by injecting a gas sample into the GC to separate the NMO from carbon monoxide (CO), CO₂ and methane (CH₄). The NMO were oxidized to CO₂, reduced to CH₄, and measured by the FID. In this manner, the variable response of the FID (associated with

different type of organic compounds) was eliminated. The sampling apparatus and sample analysis services were provided by Almega, which is an SCAQMD-approved laboratory.

3.7 SCAQMD Method 25.1 – VOC, as TGNMO (High-Level)

This method applies to the measurement of Volatile Organic Compounds (VOC) or total gaseous non-methane organics (TGNMO) as carbon in source emissions. In this Method, gaseous samples were withdrawn from the gas stream at a constant rate through duplicate chilled condensate traps and collected in evacuated sample tanks. Each sampling train consisted of an in-stack filter (optional), sample probe, condensate trap, a flow control system, and an evacuated sample tank. The flow controller incorporated a combination vacuum/pressure gauge, which was connected directly to the canister. The TGNMO was determined by combining the analytical results obtained from independent analyses of the condensate traps (condensable fraction) and the sample tanks (gaseous fraction). The sampling system is depicted in Figure 5-3.

Prior to testing, the sampling system was pre-cleaned and evacuated in preparation for sample collection. On-site, the sampling system was leak-checked and crushed dry ice was placed around each condensate trap. Then the sample probe was placed in the stack, facing downstream to prevent collection of particulate matter. Pretest data was recorded and the sample valve was opened. The flow controller was based on a critical orifice that was preset to flow at a rate of 80-cc/min +/- 15%. Periodically, sampling train readings (i.e. tank vacuum) were recorded on the field data sheet. Sampling was stopped when one hour had elapsed. Then, the sampling train was removed from the stack and a leak check was performed. Samples were logged in and delivered to the laboratory for analysis.

The analytical system consisted of two major sub-systems: an oxidation system for the recovery and the conditioning of the condensate trap contents, and a non-methane organics (NMO) analyzer. The NMO analyzer was a gas chromatograph (GC) with backflush capability for NMO analysis and was equipped with an oxidation catalyst, reduction catalyst, and flame ionization detector (FID). The system for the recovery and conditioning of the organics captured in the condensate trap consisted of a heat source, oxidation catalyst, non-dispersive infrared (NDIR) CO₂ analyzer and an intermediate collection vessel (ICV).

The organic content of each condensate trap was oxidized to carbon dioxide (CO₂), which is quantitatively collected in an evacuated vessel (the ICV); then a portion of the CO₂ was reduced to methane (CH₄) and measured by GC/NDIR or GC/FID. The organic content of the sample fraction collected in the sampling tank was measured by injecting a gas sample into the GC to separate the NMO from CO, CO₂ and CH₄. The NMO were oxidized to CO₂, reduced to CH₄, and measured by the FID. In this manner, the variable response of the FID (associated with different type of organic compounds) was eliminated. The sampling apparatus and sample analysis services were provided by Almega, which is a SCAQMD-approved laboratory.

3.8 SCAQMD Method 307-91 – Total Reduced Sulfur

The reduced sulfur compounds of the fuel content were measured according to SCAQMD Method 307-91. Field samples were collected from the sampling location into Tedlar bags using an air-tight sampling box. After a sample is collected, it is labeled and entered into a Chain of Custody. Within four hours after collection, samples are delivered to the Laboratory for analysis.

Samples are analyzed by GC/SCD within 24 hours after collection if collected in a Tedlar bag. Reduced sulfur compounds and SO₂ are separated by fuel. These compounds are then combusted in a hydrogen-rich flame to yield

sulfur monoxide and other products. The sulfur monoxide is reacted with ozone to yield sulfur dioxide, oxygen and light. The light is detected with a photomultiplier and the response is calibrated against previously run standards. Analytical QC includes pre-test and continuing calibration of equipment, analysis of reference standards, and blanks, and replicate analysis of at least three samples.

Appendix A

Location All American Asphalt
 Source CAU
 Project No. 2021-0883
 Run No. 1
 Parameter(s) TRS

Total Sulfur as H2S Concentration, ppmvd

$$C_{ppbvd} = \frac{C_{ppbvw}}{(1 - BWS)}$$

$C_{ppbvw} \frac{2.9}{0.010}$ = Total Sulfur as H2S Concentration, ppmvw
 $BWS \frac{0.010}{0.010}$ = Moisture Fraction
 $C_{ppbvd} \frac{2.9}{0.010}$ = Total Sulfur as H2S Concentration, ppmvd

Total Sulfur as H2S Emission Rate, lb/hr

$$ER = \frac{C_{ppbvd} \times MW \times Q_s \times 60 \times 28.32}{23.68 \times 4.54 E + 8}$$

where,

$C_{ppbvd} \frac{2.9}{0.010}$ = Total Sulfur as H2S Concentration, ppmvd
 $Q_s \frac{677}{677}$ = average stack gas flow at standard conditions, dscfm
 $MW \frac{34.100}{34.100}$ = molecular weight, g/g mol
 $ER \frac{1.1E-02}{1.1E-02}$ = Total Sulfur as H2S Emission Rate, lb/hr

Location All American Asphalt
 Source CAU
 Project No. 2021-0883
 Run No. 1
 Parameter(s) 25.1/3

TGNMEO as Methane Emission Rate, lb/hr

$$ER = \frac{C_{ppm} \times MW \times Qs \times 60 \times 28.32}{23.68 \times 4.54 E + 8}$$

where,

- C_{ppbv} 363.0 = TGNMEO as Methane Concentration, ppmvd
- Qs 677 = average stack gas flow at standard conditions, dscfm
- MW 16.040 = molecular weight, g/g mol
- ER 6.2E-01 = TGNMEO as Methane Emission Rate, lb/hr

Location All American Asphalt
 Source CAU
 Project No. 2021-0883
 Run No. 1
 Parameter(s) TO-15

1,3-Butadiene Concentration, ppbvd

$$C_{ppbvd} = \frac{C_{ppbvw}}{(1 - BWS)}$$

C_{ppbvw} 305.0 = 1,3-Butadiene Concentration, ppbvw
 BWS 0.010 = Moisture Fraction
 C_{ppbvd} 308.1 = 1,3-Butadiene Concentration, ppbvd

1,3-Butadiene Emission Rate, lb/hr

$$ER = \frac{C_{ppbvd} \times MW \times Q_s \times 60 \times 28.32}{23.68 \times 4.54 E + 11}$$

where,

C_{ppbvd} 308.1 = 1,3-Butadiene Concentration, ppbvd
 Q_s 677 = average stack gas flow at standard conditions, dscfm
 MW 54.092 = molecular weight, g/g mol
 ER 1.8E-03 = 1,3-Butadiene Emission Rate, lb/hr

Location All American Asphalt
 Source CAU
 Project No. 2021-0883
 Run No. 1
 Parameter(s) PAH

Naphthalene Concentration ($ER_{C_{10H_8}}$), ng/dscm

$$ER_{C_{10H_8}} = \frac{M_{C_{10H_8}}}{Vmstd \times 35.3147}$$

where,

$$M_{C_{10H_8}} \frac{3,450,000}{343.191} = \text{naphthalene mass, ng}$$

$$Vmstd \frac{343.191}{355008} = \text{standard meter volume, dscf}$$

$$C_{C_{10H_8}} \frac{355008}{355008} = \text{ng/dscm}$$

Naphthalene Emission Rate ($ER_{C_{10H_8}}$), lb/hr

$$ER_{C_{10H_8}} = \frac{M_{C_{10H_8}} \times Qs \times 60}{Vmstd \times 4.54E + 11}$$

where,

$$M_{C_{10H_8}} \frac{3,450,000}{679} = \text{naphthalene mass, ng}$$

$$Qs \frac{679}{343.191} = \text{average stack gas flow at standard conditions, dscfm}$$

$$Vmstd \frac{343.191}{9.03E-04} = \text{standard meter volume, dscf}$$

$$ER_{C_{10H_8}} \frac{9.03E-04}{9.03E-04} = \text{lb/hr}$$

Location All American Asphalt
 Source CAU
 Project No. 2021-0883
 Run No. 1
 Parameter(s) Metals

Aluminum Concentration, ug/dscm

$$ER = \frac{M}{Vmstd \times 35.3147}$$

where,

M $\frac{100}{373.783}$ = aluminum mass, ug
 Vmstd $\frac{373.783}{9.4}$ = standard meter volume, dscf
 C $\frac{9.4}{9.4}$ = ug/dscm

Aluminum Emission Rate, lb/hr

$$ER = \frac{M \times Qs \times 60}{Vmstd \times 4.54E + 8}$$

where,

M $\frac{100}{677}$ = aluminum mass, ug
 Qs $\frac{677}{373.783}$ = average stack gas flow at standard conditions, dscfm
 Vmstd $\frac{373.783}{2.4E-05}$ = standard meter volume, dscf
 ER $\frac{2.4E-05}{2.4E-05}$ = lb/hr

Appendix B

Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Parameter(s): TRS

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|--------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 6:52 | 5:40 | 5:40 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 677 | 644 | 638 | 653 |
| Moisture Fraction | (BWS) | 0.010 | 0.011 | 0.009 | 0.010 |
| Lab Data | | | | | |
| Total Sulfur as H2S Concentration, ppmvw | C _{ppbvw} | 2.85 | 4.72 | 4.07 | 3.88 |
| Emissions Calculations | | | | | |
| Total Sulfur as H2S Concentration, ppmvd | C _{ppbvd} | 2.9 | 4.8 | 4.1 | 3.9 |
| Total Sulfur as H2S Emission Rate, lb/hr | ER | 1.1E-02 | 1.7E-02 | 1.4E-02 | 1.4E-02 |

Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Parameter(s): TRS

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|--------------------|-------------|-------------|-------------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 6:52 | 5:40 | 5:40 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 694 | 687 | 692 | 691 |
| Moisture Fraction | (BWS) | 0.009 | 0.008 | 0.006 | 0.008 |
| Lab Data | | | | | |
| Total Sulfur as H2S Concentration, ppmvw | C _{ppbvw} | <u>0.05</u> | <u>0.05</u> | <u>0.05</u> | 0.05 |
| Emissions Calculations | | | | | |
| Total Sulfur as H2S Concentration, ppmvd | C _{ppbvd} | 0.050 | 0.050 | 0.050 | 0.050 |
| Total Sulfur as H2S Emission Rate, lb/hr | ER | 1.9E-04 | 1.9E-04 | 1.9E-04 | 1.9E-04 |

Underlined values are reported at the method detection limit

Location All American Asphalt
Source CAU - Inlet
Project No. 2021-0883
Parameter(s): 25.1/3

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|--------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 6:52 | 5:40 | 5:40 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 677 | 644 | 638 | 653 |
| Emissions Calculations | | | | | |
| TGNMEO as Methane Concentration, ppmvd | C _{ppmvd} | 363.0 | 844.5 | 565.5 | 591.0 |
| TGNMEO as Methane Emission Rate, lb/hr | ER | 0.62 | 1.4 | 0.91 | 0.97 |



Location All American Asphalt
Source CAU - Outlet
Project No. 2021-0883
Parameter(s): 25.1/3

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|--------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 6:52 | 5:40 | 5:40 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 694 | 687 | 692 | 691 |
| Emissions Calculations | | | | | |
| TGNMEO as Methane Concentration, ppmvd | C _{ppmvd} | 13.6 | 6.8 | 13.3 | 11.2 |
| TGNMEO as Methane Emission Rate, lb/hr | ER | 0.024 | 0.012 | 0.023 | 0.020 |

Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Parameter(s): TO-15

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|-------------------|----------|----------|----------|----------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 6:52 | 5:40 | 5:40 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 677 | 644 | 638 | 653 |
| Moisture Fraction | (BWS) | 0.010 | 0.011 | 0.009 | 0.010 |
| Lab Data | | | | | |
| 1,3-Butadiene Concentration, ppbv | C _{ppbv} | < 305 | < 150 | < 280 | 245 |
| 2,2,4-Trimethylpentane Concentration, ppbv | C _{ppbv} | 145 | 200 | 120 | 155 |
| 2-Butanone (MEK) Concentration, ppbv | C _{ppbv} | 575 | 765 | 565 | 635 |
| 4-Methyl-2-pentanone (MIBK) Concentration, ppbv | C _{ppbv} | 1,150 | 3,050 | 2,450 | 2,217 |
| Acetone Concentration, ppbv | C _{ppbv} | 2,900 | 4,650 | 3,800 | 3,783 |
| Benzene Concentration, ppbv | C _{ppbv} | 285 | 805 | 575 | 555 |
| Cyclohexane Concentration, ppbv | C _{ppbv} | 540 | 995 | 610 | 715 |
| Ethanol Concentration, ppbv | C _{ppbv} | 4,600 | 8,600 | 6,000 | 6,400 |
| Ethylbenzene Concentration, ppbv | C _{ppbv} | 68 | 120 | 82 | 90 |
| Heptane Concentration, ppbv | C _{ppbv} | 715 | 1,075 | 595 | 795 |
| Hexane Concentration, ppbv | C _{ppbv} | 1,450 | 1,900 | 1,300 | 1,550 |
| m-Xylene & p-Xylene Concentration, ppbv | C _{ppbv} | 575 | 1,650 | 1,300 | 1,175 |
| Methanol Concentration, ppbv | C _{ppbv} | 13,500 | 21,500 | 13,500 | 16,167 |
| Propene Concentration, ppbv | C _{ppbv} | 2,850 | 3,450 | 2,750 | 3,017 |
| Toluene Concentration, ppbv | C _{ppbv} | 320 | 650 | 495 | 488 |
| o-Xylene Concentration, ppbv | C _{ppbv} | < 50 | 75 | 51 | 59 |
| Chloromethane Concentration, ppbv | C _{ppbv} | < 50 | < 50 | < 50 | 50 |
| Carbon disulfide Concentration, ppbv | C _{ppbv} | 235 | 350 | < 200 | 262 |
| Chlorodifluoromethane (TIC) Concentration, ppbv | C _{ppbv} | < 470 | < 120 | < 270 | 287 |
| Dichlorofluoromethane (TIC) Concentration, ppbv | C _{ppbv} | ND | ND | < 130 | 130 |
| Emissions Calculations | | | | | |
| 1,3-Butadiene Concentration, ppbv | C _{ppbv} | 308.1 | 151.7 | 282.5 | 247.4 |
| 1,3-Butadiene Emission Rate, lb/hr | ER | 1.8E-03 | 8.4E-04 | 1.5E-03 | 1.4E-03 |
| 2,2,4-Trimethylpentane Concentration, ppbv | C _{ppbv} | 146.5 | 202.2 | 121.1 | 156.6 |
| 2,2,4-Trimethylpentane Emission Rate, lb/hr | ER | 1.8E-03 | 2.4E-03 | 1.4E-03 | 1.8E-03 |
| 2-Butanone (MEK) Concentration, ppbv | C _{ppbv} | 580.8 | 773.5 | 570.1 | 641.5 |
| 2-Butanone (MEK) Emission Rate, lb/hr | ER | 4.5E-03 | 5.7E-03 | 4.1E-03 | 4.8E-03 |
| 4-Methyl-2-pentanone (MIBK) Concentration, ppbv | C _{ppbv} | 1,161.6 | 3,083.9 | 2,472.3 | 2,239.3 |
| 4-Methyl-2-pentanone (MIBK) Emission Rate, lb/hr | ER | 1.2E-02 | 3.1E-02 | 2.5E-02 | 2.3E-02 |
| Acetone Concentration, ppbv | C _{ppbv} | 2,929.3 | 4,701.7 | 3,834.5 | 3,821.8 |
| Acetone Emission Rate, lb/hr | ER | 1.8E-02 | 2.8E-02 | 2.2E-02 | 2.3E-02 |
| Benzene Concentration, ppbv | C _{ppbv} | 287.9 | 814.0 | 580.2 | 560.7 |
| Benzene Emission Rate, lb/hr | ER | 2.4E-03 | 6.5E-03 | 4.6E-03 | 4.5E-03 |
| Cyclohexane Concentration, ppbv | C _{ppbv} | 545.5 | 1,006.1 | 615.5 | 722.4 |
| Cyclohexane Emission Rate, lb/hr | ER | 4.9E-03 | 8.6E-03 | 5.2E-03 | 6.3E-03 |
| Ethanol Concentration, ppbv | C _{ppbv} | 4,646.5 | 8,695.7 | 6,054.5 | 6,465.5 |
| Ethanol Emission Rate, lb/hr | ER | 2.3E-02 | 4.1E-02 | 2.8E-02 | 3.1E-02 |
| Ethylbenzene Concentration, ppbv | C _{ppbv} | 68.7 | 121.3 | 82.2 | 90.8 |
| Ethylbenzene Emission Rate, lb/hr | ER | 7.8E-04 | 1.3E-03 | 8.8E-04 | 9.9E-04 |
| Heptane Concentration, ppbv | C _{ppbv} | 722.2 | 1087.0 | 600.4 | 803.2 |
| Heptane Emission Rate, lb/hr | ER | 7.7E-03 | 1.1E-02 | 6.1E-03 | 8.3E-03 |
| Hexane Concentration, ppbv | C _{ppbv} | 1,464.6 | 1,921.1 | 1,311.8 | 1,565.9 |
| Hexane Emission Rate, lb/hr | ER | 1.4E-02 | 1.7E-02 | 1.1E-02 | 1.4E-02 |
| m-Xylene & p-Xylene Concentration, ppbv | C _{ppbv} | 580.8 | 1,668.4 | 1,311.8 | 1,187.0 |
| m-Xylene & p-Xylene Emission Rate, lb/hr | ER | 6.6E-03 | 1.8E-02 | 1.4E-02 | 1.3E-02 |
| Methanol Concentration, ppbv | C _{ppbv} | 13,636.4 | 21,739.1 | 13,622.6 | 16,332.7 |
| Methanol Emission Rate, lb/hr | ER | 4.7E-02 | 7.1E-02 | 4.4E-02 | 5.4E-02 |
| Propene Concentration, ppbv | C _{ppbv} | 2,878.8 | 3,488.4 | 2,775.0 | 3,047.4 |
| Propene Emission Rate, lb/hr | ER | 1.3E-02 | 1.5E-02 | 1.2E-02 | 1.3E-02 |
| Toluene Concentration, ppbv | C _{ppbv} | 323.2 | 657.2 | 499.5 | 493.3 |
| Toluene Emission Rate, lb/hr | ER | 3.2E-03 | 6.2E-03 | 4.6E-03 | 4.7E-03 |
| o-Xylene Concentration, ppbv | C _{ppbv} | 50.5 | 75.8 | 51.0 | 59.1 |
| o-Xylene Emission Rate, lb/hr | ER | 5.7E-04 | 8.2E-04 | 5.5E-04 | 6.5E-04 |
| Carbon disulfide Concentration, ppbv | C _{ppbv} | 237.4 | 353.9 | 201.8 | 264.4 |
| Carbon disulfide Emission Rate, lb/hr | ER | 1.9E-03 | 2.7E-03 | 1.5E-03 | 2.1E-03 |
| Chlorodifluoromethane (TIC) Concentration, ppbv | C _{ppbv} | 474.7 | 121.3 | 272.5 | 289.5 |
| Chlorodifluoromethane (TIC) Emission Rate, lb/hr | ER | 4.4E-03 | 1.1E-03 | 2.4E-03 | 2.6E-03 |
| Dichlorofluoromethane (TIC) Concentration, ppbv | C _{ppbv} | NA | NA | 131.2 | 131.2 |
| Dichlorofluoromethane (TIC) Emission Rate, lb/hr | ER | NA | NA | 1.4E-03 | 1.4E-03 |

*Underlined values contain "ND" results in one or both duplicate canister analysis. "RL" used in average concentration calculation

**TIC results do not contain an "RL" and are omitted in average calculations when not detected

Location All American Asphalt
Source CAU - Outlet
Project No. 2021-0883
Parameter(s): TO-15

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|----------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 6:52 | 5:40 | 5:40 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 694 | 687 | 692 | 691 |
| Moisture Fraction | (BWS) | 0.009 | 0.008 | 0.006 | 0.008 |
| Lab Data | | | | | |
| 1,3-Butadiene Concentration, ppbvw | C _{1ppbvw} | <2 | <6 | <23 | 10.18 |
| 2,2,4-Trimethylpentane Concentration, ppbvw | C _{2ppbvw} | <1 | <2 | <8 | 3.39 |
| 2-Butanone (MEK) Concentration, ppbvw | C _{3ppbvw} | <2 | <6 | <23 | 10.18 |
| 4-Methyl-2-pentanone (MIBK) Concentration, ppbvw | C _{4ppbvw} | <2 | <6 | <23 | 10.18 |
| Acetone Concentration, ppbvw | C _{5ppbvw} | 126 | 22 | <30 | 59 |
| Benzene Concentration, ppbvw | C _{6ppbvw} | <1 | <2 | <8 | 3 |
| Cyclohexane Concentration, ppbvw | C _{7ppbvw} | <1 | <2 | <8 | 3 |
| Ethanol Concentration, ppbvw | C _{8ppbvw} | 11.4 | <20 | <75 | 35 |
| Ethylbenzene Concentration, ppbvw | C _{9ppbvw} | <1 | <2 | <8 | 3 |
| Heptane Concentration, ppbvw | C _{10ppbvw} | <3 | <8 | <30 | 14 |
| Hexane Concentration, ppbvw | C _{11ppbvw} | <3 | <8 | <30 | 14 |
| m-Xylene & p-Xylene Concentration, ppbvw | C _{12ppbvw} | <3 | <8 | <30 | 14 |
| Methanol Concentration, ppbvw | C _{13ppbvw} | 155 | 625 | 3050 | 1,277 |
| Propene Concentration, ppbvw | C _{14ppbvw} | <14 | <40 | <150 | 68 |
| Toluene Concentration, ppbvw | C _{15ppbvw} | <1 | <2 | <8 | 3 |
| o-Xylene Concentration, ppbvw | C _{16ppbvw} | <1 | <2 | <8 | 3 |
| Chloromethane Concentration, ppbvw | C _{17ppbvw} | <1 | 15.5 | 12.5 | 10 |
| Carbon disulfide Concentration, ppbvw | C _{18ppbvw} | <3 | <8 | <30 | 13.57 |
| Chlorodifluoromethane (TIC) Concentration, ppbvw | C _{19ppbvw} | ND | 19 | 69 | 43.75 |
| Dichlorofluoromethane (TIC) Concentration, ppbvw | C _{20ppbvw} | ND | ND | ND | ND |
| Emissions Calculations | | | | | |
| 1,3-Butadiene Concentration, ppbvd | C _{1ppbvd} | 2.1 | 6.0 | 22.6 | 10.3 |
| 1,3-Butadiene Emission Rate, lb/hr | ER | 1.2E-05 | 3.6E-05 | 1.3E-04 | 6.1E-05 |
| 2,2,4-Trimethylpentane Concentration, ppbvd | C _{2ppbvd} | 0.68 | 2.0 | 7.5 | 3.4 |
| 2,2,4-Trimethylpentane Emission Rate, lb/hr | ER | 8.5E-06 | 2.5E-05 | 9.4E-05 | 4.3E-05 |
| 2-Butanone (MEK) Concentration, ppbvd | C _{3ppbvd} | 2.1 | 6.0 | 22.6 | 10.3 |
| 2-Butanone (MEK) Emission Rate, lb/hr | ER | 1.6E-05 | 4.7E-05 | 1.8E-04 | 8.1E-05 |
| 4-Methyl-2-pentanone (MIBK) Concentration, ppbvd | C _{4ppbvd} | 2.1 | 6.0 | 22.6 | 10.3 |
| 4-Methyl-2-pentanone (MIBK) Emission Rate, lb/hr | ER | 2.3E-05 | 6.6E-05 | 2.5E-04 | 1.1E-04 |
| Acetone Concentration, ppbvd | C _{5ppbvd} | 126.6 | 21.7 | 30.2 | 59.5 |
| Acetone Emission Rate, lb/hr | ER | 8.1E-04 | 1.4E-04 | 1.9E-04 | 3.8E-04 |
| Benzene Concentration, ppbvd | C _{6ppbvd} | 0.68 | 2.0 | 7.5 | 3.4 |
| Benzene Emission Rate, lb/hr | ER | 5.8E-06 | 1.7E-05 | 6.4E-05 | 2.9E-05 |
| Cyclohexane Concentration, ppbvd | C _{7ppbvd} | 0.68 | 2.0 | 7.5 | 3.4 |
| Cyclohexane Emission Rate, lb/hr | ER | 6.2E-06 | 1.8E-05 | 6.9E-05 | 3.1E-05 |
| Ethanol Concentration, ppbvd | C _{8ppbvd} | 11.5 | 20.2 | 75.5 | 35.7 |
| Ethanol Emission Rate, lb/hr | ER | 5.8E-05 | 1.0E-04 | 3.8E-04 | 1.8E-04 |
| Ethylbenzene Concentration, ppbvd | C _{9ppbvd} | 0.68 | 2.0 | 7.5 | 3.4 |
| Ethylbenzene Emission Rate, lb/hr | ER | 7.9E-06 | 2.3E-05 | 8.8E-05 | 4.0E-05 |
| Heptane Concentration, ppbvd | C _{10ppbvd} | 2.7 | 8.1 | 30.2 | 13.7 |
| Heptane Emission Rate, lb/hr | ER | 3.0E-05 | 8.8E-05 | 3.3E-04 | 1.5E-04 |
| Hexane Concentration, ppbvd | C _{11ppbvd} | 2.9 | 8.1 | 30.2 | 13.7 |
| Hexane Emission Rate, lb/hr | ER | 2.8E-05 | 7.5E-05 | 2.8E-04 | 1.3E-04 |
| m-Xylene & p-Xylene Concentration, ppbvd | C _{12ppbvd} | 2.7 | 8.1 | 30.2 | 13.7 |
| m-Xylene & p-Xylene Emission Rate, lb/hr | ER | 3.2E-05 | 9.3E-05 | 3.5E-04 | 1.6E-04 |
| Methanol Concentration, ppbvd | C _{13ppbvd} | 156.4 | 630.0 | 3,068.4 | 1,285.0 |
| Methanol Emission Rate, lb/hr | ER | 5.5E-04 | 2.2E-03 | 1.1E-02 | 4.5E-03 |
| Propene Concentration, ppbvd | C _{14ppbvd} | 13.6 | 40.3 | 150.9 | 68.3 |
| Propene Emission Rate, lb/hr | ER | 6.3E-05 | 1.8E-04 | 6.9E-04 | 3.1E-04 |
| Toluene Concentration, ppbvd | C _{15ppbvd} | 0.68 | 2.0 | 7.5 | 3.4 |
| Toluene Emission Rate, lb/hr | ER | 6.8E-06 | 2.0E-05 | 7.6E-05 | 3.4E-05 |
| o-Xylene Concentration, ppbvd | C _{16ppbvd} | 0.68 | 2.0 | 7.5 | 3.4 |
| o-Xylene Emission Rate, lb/hr | ER | 7.9E-06 | 2.3E-05 | 8.8E-05 | 4.0E-05 |
| Chloromethane Concentration, ppbvd | C _{17ppbvd} | 0.68 | 15.6 | 12.6 | 9.6 |
| Chloromethane Emission Rate, lb/hr | ER | 3.7E-06 | 8.6E-05 | 6.9E-05 | 5.3E-05 |
| Carbon disulfide Concentration, ppbvd | C _{18ppbvd} | 2.7 | 8.1 | 30.2 | 13.7 |
| Carbon disulfide Emission Rate, lb/hr | ER | 2.3E-05 | 6.7E-05 | 2.5E-04 | 1.1E-04 |
| Chlorodifluoromethane (TIC) Concentration, ppbvd | C _{19ppbvd} | NA | 19.2 | 68.9 | 44.0 |
| Chlorodifluoromethane (TIC) Emission Rate, lb/hr | ER | NA | 1.8E-04 | 6.5E-04 | 4.2E-04 |
| Dichlorofluoromethane (TIC) Concentration, ppbvd | C _{20ppbvd} | NA | NA | NA | NA |
| Dichlorofluoromethane (TIC) Emission Rate, lb/hr | ER | NA | NA | NA | NA |

*Underlined values contain "ND" results in one or both duplicate canister analysis. "RL" used in average concentration calculations
**TIC results do not contain an "RL" and are omitted in average calculations when not detected

Location **All American Asphalt**
Source **CAU - Inlet**
Project No. **2021-0883**
Parameter(s): **PAH**

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|---------|-----------|-----------|-----------|-----------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:37 | 12:46 | 12:49 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 679 | 646 | 642 | 656 |
| Standard Meter Volume, ft ³ | (Vmstd) | 343.191 | 340.920 | 317.714 | 333.942 |
| Lab Data | | | | | |
| Naphthalene Mass, ng | M | 3,450,000 | 4,070,000 | 3,730,000 | 3,750,000 |
| 2-Methylnaphthalene Mass, ng | M | 1,060,000 | 1,380,000 | 1,440,000 | 1,293,333 |
| Acenaphthylene Mass, ng | M | 5,000 | 5,000 | 5,770 | 5,257 |
| Acenaphthene Mass, ng | M | 8,640 | 11,700 | 12,000 | 10,780 |
| Fluorene Mass, ng | M | 7,490 | 7,830 | 8,700 | 8,007 |
| Phenanthrene Mass, ng | M | 7,060 | 13,800 | 12,100 | 10,987 |
| Anthracene Mass, ng | M | 8,580 | 6,710 | 7,880 | 7,723 |
| Fluoranthene Mass, ng | M | 351 | 243 | 612 | 402 |
| Pyrene Mass, ng | M | 786 | 544 | 1,330 | 887 |
| Benz(a)anthracene Mass, ng | M | 11.1 | 11.5 | 15.1 | 13 |
| Chrysene Mass, ng | M | 82.7 | 88 | 105 | 92 |
| Benzo(b)fluoranthene Mass, ng | M | 20.7 | 14.6 | 63.6 | 33 |
| Benzo(k)fluoranthene Mass, ng | M | 10 | 10 | 15.6 | 12 |
| Benzo(e)pyrene Mass, ng | M | 96.4 | 68.3 | 461 | 209 |
| Benzo(a)pyrene Mass, ng | M | 24.2 | 16 | 50.4 | 30 |
| Perylene Mass, ng | M | 10.1 | 11.6 | 10.8 | 11 |
| Indeno(1,2,3-c,d)pyrene Mass, ng | M | 31.4 | 15.2 | 92.4 | 46 |
| Dibenz(a,h)anthracene Mass, ng | M | 10 | 10 | 10 | 10 |
| Benzo(g,h,i)perylene Mass, ng | M | 251 | 120 | 630 | 334 |
| Emissions Calculations | | | | | |
| Naphthalene Concentration, ng/dscm | C | 355,008 | 421,597 | 414,599 | 397,068 |
| Naphthalene Emission Rate, lb/hr | ER | 9.0E-04 | 1.0E-03 | 1.0E-03 | 9.7E-04 |
| 2-Methylnaphthalene Concentration, ng/dscm | C | 109,075 | 142,949 | 160,060 | 137,361 |
| 2-Methylnaphthalene Emission Rate, lb/hr | ER | 2.8E-04 | 3.5E-04 | 3.8E-04 | 3.4E-04 |
| Acenaphthylene Concentration, ng/dscm | C | 514.5 | 517.9 | 641.3 | 557.9 |
| Acenaphthylene Emission Rate, lb/hr | ER | 1.3E-06 | 1.3E-06 | 1.5E-06 | 1.4E-06 |
| Acenaphthene Concentration, ng/dscm | C | 889.1 | 1,212.0 | 1,333.8 | 1,145.0 |
| Acenaphthene Emission Rate, lb/hr | ER | 2.3E-06 | 2.9E-06 | 3.2E-06 | 2.8E-06 |
| Fluorene Concentration, ng/dscm | C | 770.7 | 811.1 | 967.0 | 849.6 |
| Fluorene Emission Rate, lb/hr | ER | 2.0E-06 | 2.0E-06 | 2.3E-06 | 2.1E-06 |
| Phenanthrene Concentration, ng/dscm | C | 726.5 | 1,429.5 | 1,344.9 | 1,167.0 |
| Phenanthrene Emission Rate, lb/hr | ER | 1.8E-06 | 3.5E-06 | 3.2E-06 | 2.8E-06 |
| Anthracene Concentration, ng/dscm | C | 882.9 | 695.1 | 875.9 | 817.9 |
| Anthracene Emission Rate, lb/hr | ER | 2.2E-06 | 1.7E-06 | 2.1E-06 | 2.0E-06 |
| Fluoranthene Concentration, ng/dscm | C | 36.1 | 25.2 | 68.0 | 43.1 |
| Fluoranthene Emission Rate, lb/hr | ER | 9.2E-08 | 6.1E-08 | 1.6E-07 | 1.1E-07 |
| Pyrene Concentration, ng/dscm | C | 80.9 | 56.4 | 147.8 | 95.0 |
| Pyrene Emission Rate, lb/hr | ER | 2.1E-07 | 1.4E-07 | 3.6E-07 | 2.3E-07 |
| Benz(a)anthracene Concentration, ng/dscm | C | 1.1 | 1.2 | 1.7 | 1.3 |
| Benz(a)anthracene Emission Rate, lb/hr | ER | 2.9E-09 | 2.9E-09 | 4.0E-09 | 3.3E-09 |
| Chrysene Concentration, ng/dscm | C | 8.5 | 9.1 | 11.7 | 9.8 |
| Chrysene Emission Rate, lb/hr | ER | 2.2E-08 | 2.2E-08 | 2.8E-08 | 2.4E-08 |
| Benzo(b)fluoranthene Concentration, ng/dscm | C | 2.1 | 1.5 | 7.1 | 3.6 |
| Benzo(b)fluoranthene Emission Rate, lb/hr | ER | 5.4E-09 | 3.7E-09 | 1.7E-08 | 8.7E-09 |
| Benzo(k)fluoranthene Concentration, ng/dscm | C | 1.0 | 1.0 | 1.7 | 1.3 |
| Benzo(k)fluoranthene Emission Rate, lb/hr | ER | 2.6E-09 | 2.5E-09 | 4.2E-09 | 3.1E-09 |
| Benzo(e)pyrene Concentration, ng/dscm | C | 9.9 | 7.1 | 51.2 | 22.7 |
| Benzo(e)pyrene Emission Rate, lb/hr | ER | 2.5E-08 | 1.7E-08 | 1.2E-07 | 5.5E-08 |
| Benzo(a)pyrene Concentration, ng/dscm | C | 2.5 | 1.7 | 5.6 | 3.2 |
| Benzo(a)pyrene Emission Rate, lb/hr | ER | 6.3E-09 | 4.0E-09 | 1.3E-08 | 7.9E-09 |
| Perylene Concentration, ng/dscm | C | 1.0 | 1.2 | 1.2 | 1.1 |
| Perylene Emission Rate, lb/hr | ER | 2.6E-09 | 2.9E-09 | 2.9E-09 | 2.8E-09 |
| Indeno(1,2,3-c,d)pyrene Concentration, ng/dscm | C | 3.2 | 1.6 | 10.3 | 5.0 |
| Indeno(1,2,3-c,d)pyrene Emission Rate, lb/hr | ER | 8.2E-09 | 3.8E-09 | 2.5E-08 | 1.2E-08 |
| Dibenz(a,h)anthracene Concentration, ng/dscm | C | 1.0 | 1.0 | 1.1 | 1.1 |
| Dibenz(a,h)anthracene Emission Rate, lb/hr | ER | 2.6E-09 | 2.5E-09 | 2.7E-09 | 2.6E-09 |
| Benzo(g,h,i)perylene Concentration, ng/dscm | C | 25.8 | 12.4 | 70.0 | 36.1 |
| Benzo(g,h,i)perylene Emission Rate, lb/hr | ER | 6.6E-08 | 3.0E-08 | 1.7E-07 | 8.8E-08 |

Underlined values are reported at the method reporting limit

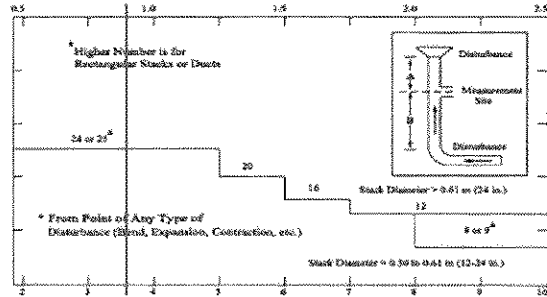
Location **All American Asphalt**
 Source **CAU - Inlet**
 Project No. **2021-0883**
 Parameter **PAH**

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|---|--------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:37 | 12:46 | 12:49 | -- |
| Run Time, min | | 480.0 | 480.0 | 480.0 | 480.0 |
| VELOCITY HEAD, in. WC | | | | | |
| Point 1 | | 0.64 | 0.65 | 0.71 | 0.67 |
| Point 2 | | 0.70 | 0.67 | 0.76 | 0.71 |
| Point 3 | | 0.72 | 0.68 | 0.74 | 0.71 |
| Point 4 | | 0.75 | 0.69 | 0.72 | 0.72 |
| Point 5 | | 0.80 | 0.71 | 0.68 | 0.73 |
| Point 6 | | 0.85 | 0.74 | 0.65 | 0.75 |
| Point 7 | | 0.85 | 0.73 | 0.68 | 0.75 |
| Point 8 | | 0.86 | 0.71 | 0.66 | 0.74 |
| Point 9 | | 0.86 | 0.69 | 0.70 | 0.75 |
| Point 10 | | 0.86 | 0.68 | 0.72 | 0.75 |
| Point 11 | | 0.88 | 0.69 | 0.69 | 0.75 |
| Point 12 | | 0.89 | 0.68 | 0.71 | 0.76 |
| Point 13 | | 0.72 | 0.70 | 0.76 | 0.73 |
| Point 14 | | 0.75 | 0.73 | 0.78 | 0.75 |
| Point 15 | | 0.78 | 0.76 | 0.77 | 0.77 |
| Point 16 | | 0.81 | 0.78 | 0.76 | 0.78 |
| Point 17 | | 0.82 | 0.77 | 0.75 | 0.78 |
| Point 18 | | 0.85 | 0.78 | 0.71 | 0.78 |
| Point 19 | | 0.86 | 0.76 | 0.68 | 0.77 |
| Point 20 | | 0.85 | 0.72 | 0.65 | 0.74 |
| Point 21 | | 0.81 | 0.71 | 0.64 | 0.72 |
| Point 22 | | 0.74 | 0.70 | 0.66 | 0.70 |
| Point 23 | | 0.72 | 0.70 | 0.68 | 0.70 |
| Point 24 | | 0.71 | 0.69 | 0.66 | 0.69 |
| CALCULATED DATA | | | | | |
| Square Root of ΔP , (in. WC) ^{1/2} | (ΔP) | 0.891 | 0.844 | 0.839 | 0.858 |
| Pitot Tube Coefficient | (Cp) | 0.990 | 0.990 | 0.990 | 0.990 |
| Barometric Pressure, in. Hg | (Pb) | 29.52 | 29.55 | 29.59 | 29.55 |
| Static Pressure, in. WC | (Pg) | -0.80 | -0.80 | -0.80 | -0.80 |
| Stack Pressure, in. Hg | (Ps) | 29.46 | 29.49 | 29.53 | 29.49 |
| Stack Cross-sectional Area, ft ² | (As) | 0.20 | 0.20 | 0.20 | 0.20 |
| Temperature, °F | (Ts) | 63.2 | 58.5 | 64.1 | 61.9 |
| Temperature, °R | (Ts) | 523.2 | 518.5 | 524.1 | 521.9 |
| Moisture Fraction Measured | (BWSmsd) | 0.006 | 0.008 | 0.003 | 0.006 |
| Moisture Fraction @ Saturation | (BWSsat) | 0.020 | 0.017 | 0.020 | 0.019 |
| Moisture Fraction | (BWS) | 0.006 | 0.008 | 0.003 | 0.006 |
| O ₂ Concentration, % | (O ₂) | 20.9 | 20.9 | 20.9 | 20.9 |
| CO ₂ Concentration, % | (CO ₂) | 0.0 | 0.0 | 0.0 | 0.0 |
| Molecular Weight, lb/lb-mole (dry) | (Md) | 28.84 | 28.84 | 28.84 | 28.84 |
| Molecular Weight, lb/lb-mole (wet) | (Ms) | 28.77 | 28.75 | 28.81 | 28.78 |
| Velocity, ft/sec | (Vs) | 59.2 | 55.9 | 55.8 | 57.0 |
| VOLUMETRIC FLOW RATE | | | | | |
| At Stack Conditions, acfm | (Qa) | 698 | 658 | 657 | 671 |
| At Standard Conditions, dscfm | (Qs) | 679 | 646 | 642 | 655 |

Location All American Asphalt
Source CAU - Inlet
Project No. 2021-0883
Date: 03/16/21

Stack Parameters - Sampling Location

Duct Orientation: Horizontal
Duct Design: Circular
Distance from Far Wall to Outside of Port: 6.00 in
Nipple Length: 0.00 in
Depth of Duct: 6.09 in
Cross Sectional Area of Duct: 0.20 ft²
No. of Test Ports: 2
Distance A: 1.8 ft
Distance A Duct Diameters: 3.6 (must be > 0.5)
Distance B: 1.8 ft
Distance B Duct Diameters: 3.6 (must be > 2)
Minimum Number of Traverse Points: 24
Actual Number of Traverse Points: 24
Number of Readings per Point: 1
Measurer (Initial and Date): RCL
Reviewer (Initial and Date): GWH



CIRCULAR DUCT

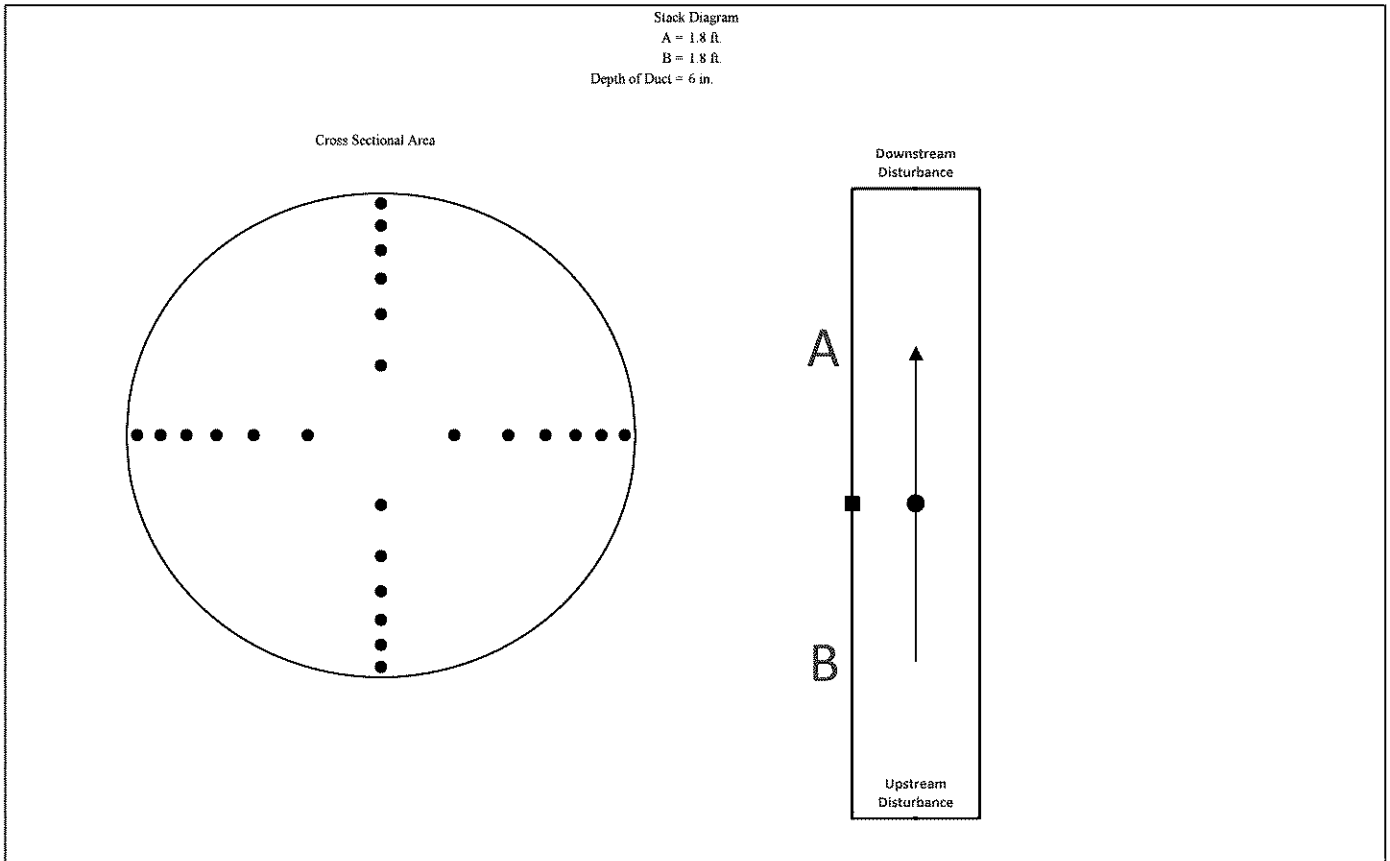
LOCATION OF TRAVERSE POINTS

Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.50 |
| 2 | 6.7 | 0.50 | 0.50 |
| 3 | 11.8 | 0.71 | 0.71 |
| 4 | 17.7 | 1.06 | 1.06 |
| 5 | 25.0 | 1.50 | 1.50 |
| 6 | 35.6 | 2.14 | 2.14 |
| 7 | 64.4 | 3.86 | 3.86 |
| 8 | 75.0 | 4.50 | 4.50 |
| 9 | 82.3 | 4.94 | 4.94 |
| 10 | 88.2 | 5.29 | 5.29 |
| 11 | 93.3 | 5.50 | 5.50 |
| 12 | 97.9 | 5.50 | 5.50 |

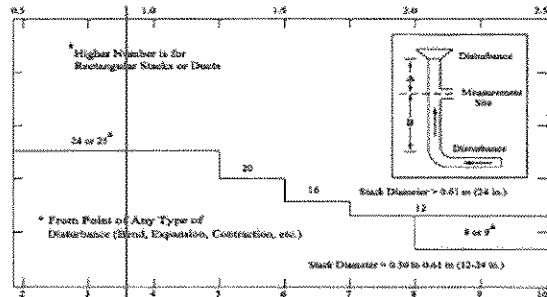
**Percent of stack diameter from inside wall to traverse point.*



Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Date: 03/16/21

Stack Parameters - Sampling

Duct Orientation: Horizontal
 Duct Design: Circular
 Distance from Far Wall to Outside of Port: 6.00 in
 Nipple Length: 0.00 in
 Depth of Duct: 6.09 in
 Cross Sectional Area of Duct: 0.20 ft²
 No. of Test Ports: 2
 Distance A: 1.8 ft
 Distance A Duct Diameters: 3.6 (must be > 0.5)
 Distance B: 1.8 ft
 Distance B Duct Diameters: 3.6 (must be > 2)
 Minimum Number of Traverse Points: 24
 Actual Number of Traverse Points: 24
 Number of Readings per Point: 1
 Measurer (Initial and Date): RCL
 Reviewer (Initial and Date): GWH



CIRCULAR DUCT

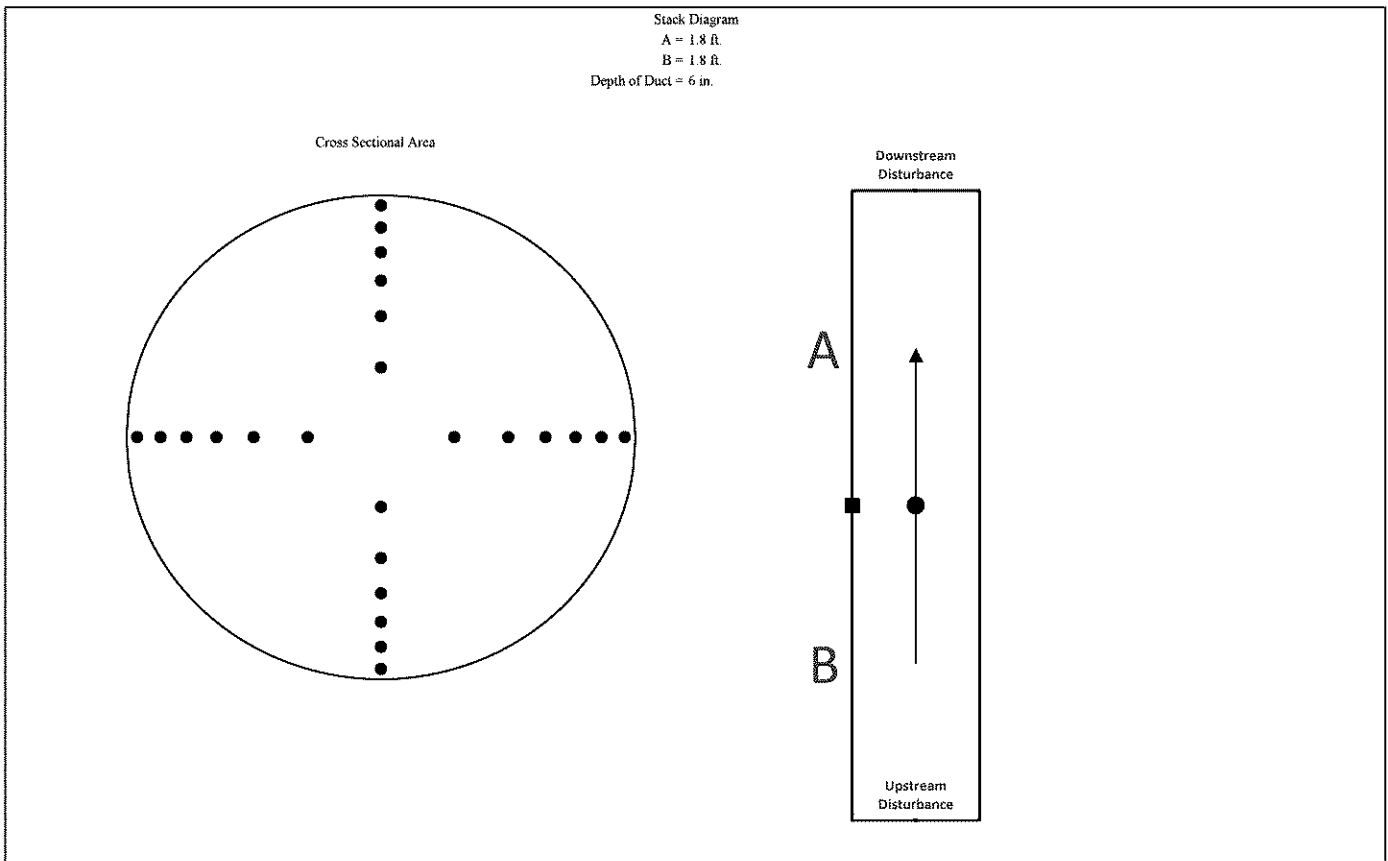
LOCATION OF TRAVERSE POINTS

Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.50 |
| 2 | 6.7 | 0.50 | 0.50 |
| 3 | 11.8 | 0.71 | 0.71 |
| 4 | 17.7 | 1.06 | 1.06 |
| 5 | 25.0 | 1.50 | 1.50 |
| 6 | 35.6 | 2.14 | 2.14 |
| 7 | 64.4 | 3.86 | 3.86 |
| 8 | 75.0 | 4.50 | 4.50 |
| 9 | 82.3 | 4.94 | 4.94 |
| 10 | 88.2 | 5.29 | 5.29 |
| 11 | 93.3 | 5.50 | 5.50 |
| 12 | 97.9 | 5.50 | 5.50 |

**Percent of stack diameter from inside wall to traverse point.*



Location All American Asphalt

Source CAU - Inlet

Project No. 2021-0883

Parameter PAH

Analysis Gravimetric

| Run 1 | | Date: 3/17/21 | | | | |
|------------------------|----------|----------------------|----------|----------|----------|--------------|
| Impinger No. | 1 | 2 | 3 | 4 | 5 | Total |
| Contents | Empty | H2O | H2O | Empty | Silica | -- |
| Initial Mass, g | 493.9 | 758.9 | 761.2 | 623.8 | 935.9 | 3573.7 |
| Final Mass, g | 507.3 | 747.5 | 757.0 | 629.9 | 979.2 | 3620.9 |
| Gain | 13.4 | -11.4 | -4.2 | 6.1 | 43.3 | 47.2 |
| Run 2 | | Date: 3/18/21 | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | Total |
| Contents | Empty | H2O | H2O | Empty | Silica | -- |
| Initial Mass, g | 494.1 | 720.3 | 755.9 | 625.2 | 956.7 | 3552.2 |
| Final Mass, g | 517.4 | 710.9 | 751.5 | 628.0 | 1001.6 | 3609.4 |
| Gain | 23.3 | -9.4 | -4.4 | 2.8 | 44.9 | 57.2 |
| Run 3 | | Date: 3/19/21 | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | Total |
| Contents | Empty | H2O | H2O | Empty | Silica | -- |
| Initial Mass, g | 494.2 | 733.6 | 747.9 | 625.5 | 886.4 | 3487.6 |
| Final Mass, g | 502.1 | 717.8 | 740.9 | 628.9 | 916.0 | 3505.7 |
| Gain | 7.9 | -15.8 | -7.0 | 3.4 | 29.6 | 18.1 |

| | | | | | |
|--------------------------------|-------------------------------|--|--------------------------------------|-------------------------|----------------|
| Location: All American Asphalt | | Start Time: 5:52 | | Source: CAU - Inlet | |
| Date: 3/17/21 | Run 1 | VALID | End Time: 14:37 | Project No.: 2021-0883 | Parameter: PAH |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | |
| Moisture: 5.0 % est. | Meter Box ID: M5-9 | Est. Tm: 60 °F | FILTER NO. | | |
| Barometric: 29.52 in. Hg | Y: 0.9939 | Est. Ts: 60 °F | STACK DATA (FINAL) | | |
| Static Press: -0.80 in. WC | ΔH @ (in.WC): 1.841 | Est. ΔP: 0.64 in. WC | Pb: 29.52 in. Hg | | |
| Stack Press: 29.46 in. Hg | Probe ID: PR502-4 | Est. Dn: 0.212 in. | Pg: -0.80 in. WC | | |
| CO ₂ : 0.0 % | Liner Material: quartz | Target Rate: 0.75 scfm | O ₂ : 20.9 % | | |
| O ₂ : 20.9 % | Pitot ID: ADP 1 | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | CO ₂ : 0.0 % | | |
| N ₂ /CO: 79.1 % | Pitot Cp/Type: 0.990 standard | Leak Rate (cfm): 0.003 0.005 -- -- 0.003 | K-FACTOR | | |
| Md: 28.84 lb/lb-mole | Nozzle ID: .209 glass | Vacuum (in Hg): 12 10 -- -- 10 | Check Pt. Initial Final Corr. | | |
| Ms: 28.29 lb/lb-mole | Nozzle Dn (in.): 0.196 | Pitot Tube: Pass -- -- -- Pass | Mid 1 (cf) 529.110 ##### 0.320 | | |
| | | | Mid 2 (cf) -- | | |
| | | | Mid 3 (cf) -- | | |
| | | | Mid-Point Leak Check Vol (cf): 0.320 | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0:00 | 20:00 | 352.794 | 0.64 | 44 | 46 | 1.32 | 1.30 | 5 | 255 | 249 | 47 | 47 | 105.3 | 52.75 |
| 2 | 20:00 | 40:00 | 366.420 | 0.70 | 47 | 47 | 1.44 | 1.40 | 5 | 250 | 252 | 58 | 44 | 107.3 | 55.22 |
| 3 | 40:00 | 60:00 | 381.020 | 0.72 | 51 | 46 | 1.50 | 1.50 | 5 | 250 | 251 | 59 | 44 | 107.3 | 55.95 |
| 4 | 60:00 | 80:00 | 395.950 | 0.75 | 53 | 47 | 1.56 | 1.60 | 5 | 250 | 251 | 55 | 44 | 92.9 | 57.16 |
| 5 | 80:00 | 100:00 | 409.170 | 0.80 | 55 | 46 | 1.68 | 1.70 | 7 | 250 | 253 | 51 | 44 | 93.8 | 58.98 |
| 6 | 100:00 | 120:00 | 423.020 | 0.85 | 56 | 47 | 1.78 | 1.80 | 7 | 250 | 253 | 51 | 44 | 104.5 | 60.85 |
| 7 | 120:00 | 140:00 | 438.950 | 0.85 | 59 | 49 | 1.79 | 1.80 | 7 | 250 | 249 | 52 | 47 | 96.6 | 60.97 |
| 8 | 140:00 | 160:00 | 453.730 | 0.86 | 50 | 60 | 1.74 | 1.80 | 7 | 250 | 251 | 52 | 47 | 102.3 | 61.99 |
| 9 | 160:00 | 180:00 | 469.030 | 0.86 | 61 | 51 | 1.81 | 1.80 | 7 | 250 | 249 | 52 | 48 | 95.4 | 61.45 |
| 10 | 180:00 | 200:00 | 483.730 | 0.86 | 62 | 53 | 1.80 | 1.80 | 7 | 250 | 248 | 53 | 50 | 98.1 | 61.57 |
| 11 | 200:00 | 220:00 | 498.850 | 0.88 | 65 | 54 | 1.85 | 1.90 | 7 | 250 | 249 | 54 | 51 | 96.2 | 62.34 |
| 12 | 220:00 | 240:00 | 513.920 | 0.89 | 67 | 57 | 1.87 | 1.90 | 7 | 251 | 249 | 52 | 51 | 96.3 | 62.88 |
| B1 | 240:00 | 260:00 | 529.110 | 0.72 | 69 | 68 | 1.49 | 1.50 | 7 | 249 | 252 | 49 | 59 | 101.3 | 57.16 |
| 2 | 260:00 | 280:00 | 543.390 | 0.75 | 61 | 70 | 1.52 | 1.50 | 7 | 250 | 251 | 59 | 39 | 102.9 | 58.44 |
| 3 | 280:00 | 300:00 | 557.950 | 0.78 | 76 | 72 | 1.62 | 1.60 | 7 | 249 | 252 | 55 | 39 | 99.9 | 59.71 |
| 4 | 300:00 | 320:00 | 572.740 | 0.81 | 80 | 74 | 1.69 | 1.70 | 7 | 250 | 248 | 51 | 40 | 98.9 | 60.97 |
| 5 | 320:00 | 340:00 | 587.750 | 0.82 | 82 | 77 | 1.71 | 1.70 | 7 | 251 | 249 | 56 | 42 | 96.0 | 61.51 |
| 6 | 340:00 | 360:00 | 602.420 | 0.85 | 84 | 78 | 1.77 | 1.80 | 7 | 250 | 253 | 57 | 44 | 97.5 | 62.69 |
| 7 | 360:00 | 380:00 | 617.620 | 0.86 | 84 | 80 | 1.79 | 1.80 | 7 | 250 | 250 | 58 | 45 | 96.6 | 63.17 |
| 8 | 380:00 | 400:00 | 632.750 | 0.85 | 86 | 80 | 1.77 | 1.80 | 7 | 249 | 249 | 57 | 49 | 97.4 | 62.80 |
| 9 | 400:00 | 420:00 | 647.960 | 0.81 | 87 | 83 | 1.68 | 1.70 | 7 | 250 | 250 | 55 | 40 | 101.4 | 61.48 |
| 10 | 420:00 | 440:00 | 663.420 | 0.74 | 88 | 80 | 1.55 | 1.60 | 7 | 250 | 250 | 57 | 42 | 101.9 | 58.60 |
| 11 | 440:00 | 460:00 | 678.340 | 0.72 | 86 | 76 | 1.51 | 1.50 | 7 | 251 | 250 | 55 | 41 | 101.6 | 57.59 |
| 12 | 460:00 | 480:00 | 693.010 | 0.71 | 86 | 75 | 1.49 | 1.50 | 7 | 250 | 251 | 53 | 43 | 98.8 | 57.13 |

Final DGM: 707.201

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|------|-------|-----------------|
| | 480.0 min | 354.087 ft ³ | 0.80 in. WC | 68.3 °F | 63.2 °F | 7 | 1.667 in. WC | 98.7 | 0.006 | 2.7 |

| | | | | | |
|-----------------------------------|-------------------------------|--|-----------------|-------------------------|-------------------------------|
| Location: All American Asphalt | | Start Time: 4:40 | | Source: CAU - Inlet | |
| Date: 3/18/21 | Run 2 | VALID | End Time: 12:46 | Project No.: 2021-0883 | Parameter: PAH |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | |
| Moisture: 1.0 % est. | Meter Box ID: M5-9 | Est. Tm: 68 °F | FILTER NO. | | STACK DATA (FINAL) |
| Barometric: 29.52 in. Hg | Y: 0.9939 | Est. Ts: 63 °F | | | Pb: 29.55 in. Hg |
| Static Press: -0.80 in. WC | ΔH @ (in.WC): 1.841 | Est. ΔP: 0.80 in. WC | | | Pg: -0.80 in. WC |
| Stack Press: 29.46 in. Hg | Probe ID: PR502-4 | Est. Dn: 0.196 in. | | | O ₂ : 20.9 % |
| CO ₂ : 0.0 % | Liner Material: quartz | Target Rate: 0.75 scfm | | | CO ₂ : 0.0 % |
| O ₂ : 20.9 % | Pitot ID: ADP 1 | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | Check Pt. Initial Final Corr. |
| N ₂ /CO: 79.1 % | Pitot Cp/Type: 0.990 standard | Leak Rate (cfm): 0.004 -- -- -- 0.003 | | | Mid 1 (cf) -- |
| Md: 28.84 lb/lb-mole | Nozzle ID: .209 glass | Vacuum (in Hg): 11 -- -- -- 12 | | | Mid 2 (cf) -- |
| Ms: 28.73 lb/lb-mole | Nozzle Dn (in.): 0.196 | Pitot Tube: Pass -- -- -- Pass | | | Mid 3 (cf) -- |
| Mid-Point Leak Check Vol (cf): -- | | | | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0:00 | 20:00 | 707.524 | 0.65 | 46 | 47 | 1.43 | 1.40 | 7 | 252 | 252 | 43 | 48 | 100.1 | 52.81 |
| 2 | 20:00 | 40:00 | 721.060 | 0.67 | 51 | 52 | 1.47 | 1.50 | 7 | 250 | 248 | 51 | 47 | 102.9 | 53.88 |
| 3 | 40:00 | 60:00 | 735.260 | 0.68 | 55 | 53 | 1.51 | 1.50 | 7 | 250 | 250 | 54 | 46 | 96.1 | 54.34 |
| 4 | 60:00 | 80:00 | 748.710 | 0.69 | 56 | 53 | 1.53 | 1.60 | 8 | 251 | 251 | 53 | 46 | 101.3 | 54.73 |
| 5 | 80:00 | 100:00 | 763.020 | 0.71 | 57 | 53 | 1.58 | 1.60 | 8 | 250 | 251 | 51 | 46 | 100.3 | 55.52 |
| 6 | 100:00 | 120:00 | 777.410 | 0.74 | 57 | 54 | 1.64 | 1.70 | 8 | 250 | 251 | 53 | 48 | 95.2 | 56.74 |
| 7 | 120:00 | 140:00 | 791.350 | 0.73 | 57 | 54 | 1.62 | 1.60 | 8 | 250 | 250 | 53 | 47 | 101.1 | 56.35 |
| 8 | 140:00 | 160:00 | 806.050 | 0.71 | 59 | 54 | 1.58 | 1.60 | 8 | 250 | 251 | 52 | 47 | 100.5 | 55.58 |
| 9 | 160:00 | 180:00 | 820.510 | 0.69 | 60 | 55 | 1.54 | 1.50 | 8 | 250 | 252 | 52 | 48 | 102.3 | 54.84 |
| 10 | 180:00 | 200:00 | 835.040 | 0.68 | 61 | 56 | 1.51 | 1.50 | 8 | 250 | 251 | 52 | 49 | 100.8 | 54.49 |
| 11 | 200:00 | 220:00 | 849.270 | 0.69 | 61 | 57 | 1.53 | 1.50 | 8 | 250 | 253 | 52 | 49 | 104.4 | 54.95 |
| 12 | 220:00 | 240:00 | 864.110 | 0.68 | 64 | 58 | 1.52 | 1.50 | 8 | 249 | 249 | 54 | 52 | 98.7 | 54.60 |
| B1 | 240:00 | 260:00 | 878.100 | 0.70 | 66 | 58 | 1.57 | 1.60 | 8 | 250 | 250 | 48 | 53 | 99.2 | 55.40 |
| 2 | 260:00 | 280:00 | 892.410 | 0.73 | 66 | 55 | 1.64 | 1.60 | 9 | 249 | 251 | 50 | 44 | 103.5 | 56.41 |
| 3 | 280:00 | 300:00 | 907.710 | 0.76 | 71 | 55 | 1.73 | 1.70 | 9 | 250 | 252 | 47 | 48 | 98.6 | 57.56 |
| 4 | 300:00 | 320:00 | 922.720 | 0.78 | 72 | 56 | 1.77 | 1.80 | 9 | 250 | 250 | 45 | 47 | 92.5 | 58.36 |
| 5 | 320:00 | 340:00 | 936.990 | 0.77 | 72 | 57 | 1.75 | 1.80 | 9 | 250 | 252 | 52 | 53 | 93.7 | 58.05 |
| 6 | 340:00 | 360:00 | 951.340 | 0.78 | 73 | 59 | 1.77 | 1.80 | 9 | 249 | 251 | 54 | 52 | 97.8 | 58.53 |
| 7 | 360:00 | 380:00 | 966.410 | 0.76 | 77 | 61 | 1.73 | 1.70 | 9 | 251 | 250 | 56 | 49 | 104.2 | 57.89 |
| 8 | 380:00 | 400:00 | 982.350 | 0.72 | 79 | 62 | 1.64 | 1.70 | 9 | 250 | 250 | 52 | 49 | 99.1 | 56.40 |
| 9 | 400:00 | 420:00 | 997.150 | 0.71 | 82 | 72 | 1.59 | 1.60 | 9 | 250 | 251 | 47 | 44 | 103.5 | 56.54 |
| 10 | 420:00 | 440:00 | 1012.450 | 0.70 | 85 | 74 | 1.58 | 1.60 | 9 | 251 | 251 | 38 | 41 | 105.9 | 56.25 |
| 11 | 440:00 | 460:00 | 1028.050 | 0.70 | 86 | 69 | 1.59 | 1.60 | 9 | 251 | 251 | 33 | 42 | 100.9 | 55.98 |
| 12 | 460:00 | 480:00 | 1043.010 | 0.69 | 86 | 80 | 1.54 | 1.50 | 9 | 251 | 252 | 30 | 40 | 101.9 | 56.16 |
| Final DGM: | | | 1057.858 | | | | | | | | | | | | |

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|-------|-------|-----------------|
| | 480.0 min | 350.334 ft ³ | 0.71 in. WC | 66.6 °F | 58.5 °F | 9 | 1.604 in. WC | 103.1 | 0.008 | 3.7 |

| | | | | | |
|-----------------------------------|-------------------------------|--|-------------------------------|-------------------------|--------------------|
| Location: All American Asphalt | | Start Time: 4:40 | | Source: CAU - Inlet | |
| Date: 3/19/21 | Run 3 | VALID | End Time: 12:49 | Project No.: 2021-0883 | Parameter: PAH |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | |
| Moisture: 1.0 % est. | Meter Box ID: M5-9 | Est. Tm: 67 °F | FILTER NO. | | STACK DATA (FINAL) |
| Barometric: 29.52 in. Hg | Y: 0.9939 | Est. Ts: 59 °F | Pb: 29.59 in. Hg | | Vlc (ml) |
| Static Press: -0.80 in. WC | ΔH @ (in.WC): 1.841 | Est. ΔP: 0.71 in. WC | Pg: -0.80 in. WC | | 18.1 |
| Stack Press: 29.46 in. Hg | Probe ID: PR502-4 | Est. Dn: 0.201 in. | O ₂ : 20.9 % | | K-FACTOR |
| CO ₂ : 0.0 % | Liner Material: quartz | Target Rate: 0.75 scfm | CO ₂ : 0.0 % | | 2.238 |
| O ₂ : 20.9 % | Pitot ID: ADP 1 | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | Check Pt. Initial Final Corr. | | |
| N ₂ /CO: 79.1 % | Pitot Cp/Type: 0.990 standard | Leak Rate (cfm): 0.000 -- -- -- 0.001 | Mid 1 (cf) -- | | |
| Md: 28.84 lb/lb-mole | Nozzle ID: .209 glass | Vacuum (in Hg): 12 -- -- -- 11 | Mid 2 (cf) -- | | |
| Ms: 28.73 lb/lb-mole | Nozzle Dn (in.): 0.196 | Pitot Tube: Pass -- -- -- Pass | Mid 3 (cf) -- | | |
| Mid-Point Leak Check Vol (cf): -- | | | | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0:00 | 20:00 | 58.259 | 0.71 | 45 | 48 | 1.56 | 1.60 | 7 | 253 | 253 | 46 | 43 | 96.0 | 55.25 |
| 2 | 20:00 | 40:00 | 71.790 | 0.76 | 52 | 54 | 1.67 | 1.70 | 8 | 250 | 250 | 54 | 48 | 95.4 | 57.50 |
| 3 | 40:00 | 60:00 | 85.810 | 0.74 | 55 | 55 | 1.63 | 1.60 | 8 | 250 | 250 | 51 | 48 | 95.1 | 56.79 |
| 4 | 60:00 | 80:00 | 99.670 | 0.72 | 58 | 55 | 1.60 | 1.60 | 8 | 250 | 250 | 54 | 35 | 98.6 | 56.02 |
| 5 | 80:00 | 100:00 | 113.920 | 0.68 | 59 | 55 | 1.51 | 1.50 | 8 | 250 | 251 | 50 | 35 | 92.5 | 54.44 |
| 6 | 100:00 | 120:00 | 126.940 | 0.65 | 61 | 55 | 1.45 | 1.50 | 8 | 250 | 250 | 48 | 35 | 101.6 | 53.23 |
| 7 | 120:00 | 140:00 | 140.980 | 0.68 | 61 | 56 | 1.51 | 1.50 | 8 | 250 | 248 | 48 | 35 | 105.6 | 54.49 |
| 8 | 140:00 | 160:00 | 155.890 | 0.66 | 61 | 56 | 1.47 | 1.50 | 8 | 250 | 250 | 47 | 35 | 106.0 | 53.69 |
| 9 | 160:00 | 180:00 | 170.640 | 0.70 | 61 | 56 | 1.56 | 1.60 | 8 | 250 | 250 | 47 | 35 | 96.9 | 55.29 |
| 10 | 180:00 | 200:00 | 184.520 | 0.72 | 62 | 56 | 1.61 | 1.60 | 8 | 250 | 251 | 46 | 36 | 98.6 | 56.07 |
| 11 | 200:00 | 220:00 | 198.870 | 0.69 | 64 | 58 | 1.54 | 1.50 | 8 | 250 | 251 | 46 | 36 | 99.1 | 55.00 |
| 12 | 220:00 | 240:00 | 213.020 | 0.71 | 65 | 60 | 1.58 | 1.60 | 8 | 250 | 251 | 47 | 37 | 96.2 | 55.90 |
| B1 | 240:00 | 260:00 | 226.940 | 0.76 | 66 | 61 | 1.69 | 1.70 | 8 | 250 | 248 | 48 | 37 | 95.7 | 57.89 |
| 2 | 260:00 | 280:00 | 241.280 | 0.78 | 68 | 56 | 1.76 | 1.70 | 8 | 251 | 248 | 48 | 37 | 94.9 | 58.36 |
| 3 | 280:00 | 300:00 | 255.820 | 0.77 | 75 | 64 | 1.73 | 1.70 | 8 | 250 | 251 | 51 | 37 | 95.4 | 58.44 |
| 4 | 300:00 | 320:00 | 270.420 | 0.76 | 76 | 66 | 1.71 | 1.70 | 8 | 249 | 252 | 53 | 39 | 95.5 | 58.17 |
| 5 | 320:00 | 340:00 | 284.930 | 0.75 | 76 | 68 | 1.68 | 1.70 | 8 | 250 | 252 | 55 | 41 | 102.8 | 57.89 |
| 6 | 340:00 | 360:00 | 300.420 | 0.71 | 77 | 73 | 1.58 | 1.60 | 8 | 250 | 250 | 51 | 41 | 103.2 | 56.59 |
| 7 | 360:00 | 380:00 | 315.510 | 0.68 | 81 | 76 | 1.51 | 1.50 | 8 | 251 | 252 | 51 | 44 | 98.9 | 55.54 |
| 8 | 380:00 | 400:00 | 329.740 | 0.65 | 85 | 79 | 1.45 | 1.50 | 8 | 250 | 251 | 52 | 46 | 104.3 | 54.45 |
| 9 | 400:00 | 420:00 | 344.480 | 0.64 | 85 | 80 | 1.42 | 1.40 | 8 | 251 | 245 | 54 | 49 | 101.6 | 54.08 |
| 10 | 420:00 | 440:00 | 358.710 | 0.66 | 90 | 82 | 1.48 | 1.50 | 8 | 250 | 249 | 48 | 36 | 94.6 | 55.02 |
| 11 | 440:00 | 460:00 | 372.270 | 0.68 | 92 | 84 | 1.52 | 1.50 | 8 | 250 | 253 | 47 | 36 | 95.0 | 55.95 |
| 12 | 460:00 | 480:00 | 386.110 | 0.66 | 93 | 86 | 1.47 | 1.50 | 8 | 250 | 252 | 47 | 37 | ##### | 55.23 |

Final DGM: --

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|------|-------|-----------------|
| | 480.0 min | 327.851 ft ³ | 0.71 in. WC | 69.5 °F | 64.1 °F | 8 | 1.575 in. WC | 96.7 | 0.003 | -2.2 |

Location All American Asphalt
Source CAU - Outlet
Project No. 2021-0883
Parameter(s): PAH

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|----------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:45 | 12:46 | 12:49 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 693 | 684 | 688 | 688 |
| Standard Meter Volume, ft ³ | (V _{mstd}) | 393.984 | 394.728 | 397.877 | 395.530 |
| Lab Data | | | | | |
| Naphthalene Mass, ng | M | 581 | 350 | 254 | 395 |
| 2-Methylnaphthalene Mass, ng | M | 761 | 461 | 373 | 532 |
| Acenaphthylene Mass, ng | M | 27 | 16 | 17 | 20 |
| Acenaphthene Mass, ng | M | 1,080 | 709 | 679 | 823 |
| Fluorene Mass, ng | M | 2,860 | 1,890 | 1,700 | 2,150 |
| Phenanthrene Mass, ng | M | 2,860 | 2,850 | 2,440 | 2,717 |
| Anthracene Mass, ng | M | 74.5 | 65 | 59 | 66 |
| Fluoranthene Mass, ng | M | 120 | 114 | 90.5 | 108 |
| Pyrene Mass, ng | M | 167 | 192 | 168 | 176 |
| Benz(a)anthracene Mass, ng | M | 10 | 10 | 10 | 10 |
| Chrysene Mass, ng | M | 23.2 | 16.9 | 13.8 | 18 |
| Benzo(b)fluoranthene Mass, ng | M | 10 | 10 | 10 | 10 |
| Benzo(k)fluoranthene Mass, ng | M | 10 | 10 | 10 | 10 |
| Benzo(e)pyrene Mass, ng | M | 25.00 | 24.2 | 31.7 | 27 |
| Benzo(a)pyrene Mass, ng | M | 10 | 10 | 10 | 10 |
| Perylene Mass, ng | M | 10 | 10 | 10 | 10 |
| Indeno(1,2,3-c,d)pyrene Mass, ng | M | 10.9 | 12.1 | 12.8 | 12 |
| Dibenz(a,h)anthracene Mass, ng | M | 10 | 10 | 10 | 10 |
| Benzo(g,h,i)perylene Mass, ng | M | 82.8 | 101 | 102 | 95 |
| Emissions Calculations | | | | | |
| Naphthalene Concentration, ng/dscm | C | 52.1 | 31.3 | 22.5 | 35.3 |
| Naphthalene Emission Rate, lb/hr | ER | 1.4E-07 | 8.0E-08 | 5.8E-08 | 9.1E-08 |
| 2-Methylnaphthalene Concentration, ng/dscm | C | 68.2 | 41.2 | 33.1 | 47.5 |
| 2-Methylnaphthalene Emission Rate, lb/hr | ER | 1.8E-07 | 1.1E-07 | 8.5E-08 | 1.2E-07 |
| Acenaphthylene Concentration, ng/dscm | C | 2.4 | 1.4 | 1.5 | 1.8 |
| Acenaphthylene Emission Rate, lb/hr | ER | 6.3E-09 | 3.7E-09 | 3.9E-09 | 4.6E-09 |
| Acenaphthene Concentration, ng/dscm | C | 96.8 | 63.4 | 60.3 | 73.5 |
| Acenaphthene Emission Rate, lb/hr | ER | 2.5E-07 | 1.6E-07 | 1.6E-07 | 1.9E-07 |
| Fluorene Concentration, ng/dscm | C | 256.4 | 169.1 | 150.9 | 192.1 |
| Fluorene Emission Rate, lb/hr | ER | 6.7E-07 | 4.3E-07 | 3.9E-07 | 5.0E-07 |
| Phenanthrene Concentration, ng/dscm | C | 256.4 | 255.0 | 216.6 | 242.6 |
| Phenanthrene Emission Rate, lb/hr | ER | 6.7E-07 | 6.5E-07 | 5.6E-07 | 6.3E-07 |
| Anthracene Concentration, ng/dscm | C | 6.7 | 5.8 | 5.2 | 5.9 |
| Anthracene Emission Rate, lb/hr | ER | 1.7E-08 | 1.5E-08 | 1.3E-08 | 1.5E-08 |
| Fluoranthene Concentration, ng/dscm | C | 10.8 | 10.2 | 8.0 | 9.7 |
| Fluoranthene Emission Rate, lb/hr | ER | 2.8E-08 | 2.6E-08 | 2.1E-08 | 2.5E-08 |
| Pyrene Concentration, ng/dscm | C | 15.0 | 17.2 | 14.9 | 15.7 |
| Pyrene Emission Rate, lb/hr | ER | 3.9E-08 | 4.4E-08 | 3.8E-08 | 4.0E-08 |
| Benz(a)anthracene Concentration, ng/dscm | C | 0.90 | 0.89 | 0.89 | 0.89 |
| Benz(a)anthracene Emission Rate, lb/hr | ER | 2.3E-09 | 2.3E-09 | 2.3E-09 | 2.3E-09 |
| Chrysene Concentration, ng/dscm | C | 2.1 | 1.5 | 1.2 | 1.6 |
| Chrysene Emission Rate, lb/hr | ER | 5.4E-09 | 3.9E-09 | 3.2E-09 | 4.1E-09 |
| Benzo(b)fluoranthene Concentration, ng/dscm | C | 0.90 | 0.89 | 0.89 | 0.89 |
| Benzo(b)fluoranthene Emission Rate, lb/hr | ER | 2.3E-09 | 2.3E-09 | 2.3E-09 | 2.3E-09 |
| Benzo(k)fluoranthene Concentration, ng/dscm | C | 0.90 | 0.89 | 0.89 | 0.89 |
| Benzo(k)fluoranthene Emission Rate, lb/hr | ER | 2.3E-09 | 2.3E-09 | 2.3E-09 | 2.3E-09 |
| Benzo(e)pyrene Concentration, ng/dscm | C | 2.2 | 2.2 | 2.8 | 2.4 |
| Benzo(e)pyrene Emission Rate, lb/hr | ER | 5.8E-09 | 5.5E-09 | 7.3E-09 | 6.2E-09 |
| Benzo(a)pyrene Concentration, ng/dscm | C | 0.90 | 0.89 | 0.89 | 0.89 |
| Benzo(a)pyrene Emission Rate, lb/hr | ER | 2.3E-09 | 2.3E-09 | 2.3E-09 | 2.3E-09 |
| Perylene Concentration, ng/dscm | C | 0.90 | 0.89 | 0.89 | 0.89 |
| Perylene Emission Rate, lb/hr | ER | 2.3E-09 | 2.3E-09 | 2.3E-09 | 2.3E-09 |
| Indeno(1,2,3-c,d)pyrene Concentration, ng/dscm | C | 0.98 | 1.1 | 1.1 | 1.1 |
| Indeno(1,2,3-c,d)pyrene Emission Rate, lb/hr | ER | 2.5E-09 | 2.8E-09 | 2.9E-09 | 2.7E-09 |
| Dibenz(a,h)anthracene Concentration, ng/dscm | C | 0.90 | 0.89 | 0.89 | 0.89 |
| Dibenz(a,h)anthracene Emission Rate, lb/hr | ER | 2.3E-09 | 2.3E-09 | 2.3E-09 | 2.3E-09 |
| Benzo(g,h,i)perylene Concentration, ng/dscm | C | 7.4 | 9.0 | 9.1 | 8.5 |
| Benzo(g,h,i)perylene Emission Rate, lb/hr | ER | 1.9E-08 | 2.3E-08 | 2.3E-08 | 2.2E-08 |

Underlined values are reported at the method reporting limit

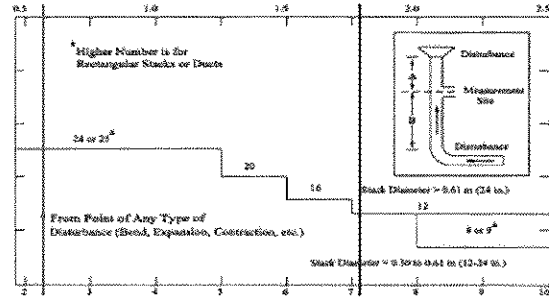
Location **All American Asphalt**
 Source **CAU - Outlet**
 Project No. **2021-0883**
 Parameter **PAH**

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|---|--------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:45 | 12:46 | 12:49 | -- |
| Run Time, min | | 480.0 | 480.0 | 480.0 | 480.0 |
| VELOCITY HEAD, in. WC | | | | | |
| Point 1 | | 1.30 | 1.20 | 0.98 | 1.16 |
| Point 2 | | 1.30 | 1.10 | 1.20 | 1.20 |
| Point 3 | | 1.20 | 1.00 | 1.20 | 1.13 |
| Point 4 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 5 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 6 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 7 | | 1.20 | 1.10 | 1.20 | 1.17 |
| Point 8 | | 1.20 | 1.10 | 1.10 | 1.13 |
| Point 9 | | 1.20 | 1.10 | 1.10 | 1.13 |
| Point 10 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 11 | | 1.00 | 1.10 | 1.00 | 1.03 |
| Point 12 | | 1.00 | 0.90 | 0.95 | 0.95 |
| Point 13 | | 0.82 | 1.10 | 1.00 | 0.97 |
| Point 14 | | 1.10 | 1.10 | 1.10 | 1.10 |
| Point 15 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 16 | | 0.88 | 1.20 | 1.20 | 1.09 |
| Point 17 | | 0.95 | 1.20 | 1.20 | 1.12 |
| Point 18 | | 1.00 | 1.20 | 1.20 | 1.13 |
| Point 19 | | 1.10 | 1.10 | 1.20 | 1.13 |
| Point 20 | | 1.10 | 1.10 | 1.10 | 1.10 |
| Point 21 | | 1.10 | 1.00 | 1.00 | 1.03 |
| Point 22 | | 1.10 | 0.88 | 1.00 | 0.99 |
| Point 23 | | 0.92 | 0.77 | 0.88 | 0.86 |
| Point 24 | | 1.10 | 0.83 | 0.85 | 0.93 |
| CALCULATED DATA | | | | | |
| Square Root of ΔP , (in. WC) ^{1/2} | (ΔP) | 1.050 | 1.041 | 1.049 | 1.047 |
| Pitot Tube Coefficient | (Cp) | 0.990 | 0.990 | 0.990 | 0.990 |
| Barometric Pressure, in. Hg | (Pb) | 29.52 | 29.55 | 29.59 | 29.55 |
| Static Pressure, in. WC | (Pg) | 0.86 | 0.81 | 0.79 | 0.82 |
| Stack Pressure, in. Hg | (Ps) | 29.58 | 29.61 | 29.65 | 29.61 |
| Stack Cross-sectional Area, ft ² | (As) | 0.17 | 0.17 | 0.17 | 0.17 |
| Temperature, °F | (Ts) | 83.5 | 86.5 | 88.5 | 86.2 |
| Temperature, °R | (Ts) | 543.5 | 546.5 | 548.5 | 546.2 |
| Moisture Fraction Measured | (BWSmsd) | 0.004 | 0.005 | 0.006 | 0.005 |
| Moisture Fraction @ Saturation | (BWSsat) | 0.039 | 0.043 | 0.046 | 0.043 |
| Moisture Fraction | (BWS) | 0.004 | 0.005 | 0.006 | 0.005 |
| O ₂ Concentration, % | (O ₂) | 20.9 | 20.9 | 20.9 | 20.9 |
| CO ₂ Concentration, % | (CO ₂) | 0.0 | 0.0 | 0.0 | 0.0 |
| Molecular Weight, lb/lb-mole (dry) | (Md) | 28.84 | 28.84 | 28.84 | 28.84 |
| Molecular Weight, lb/lb-mole (wet) | (Ms) | 28.79 | 28.78 | 28.77 | 28.78 |
| Velocity, ft/sec | (Vs) | 71.0 | 70.5 | 71.2 | 70.9 |
| VOLUMETRIC FLOW RATE | | | | | |
| At Stack Conditions, acfm | (Qa) | 735 | 730 | 737 | 734 |
| At Standard Conditions, dscfm | (Qs) | 693 | 684 | 688 | 688 |

Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Date: 03/16/21

Stack Parameters - Pitot Location

Duct Orientation: Vertical
 Duct Design: Circular
 Distance from Far Wall to Outside of Port: 5.75 in
 Nipple Length: 0.13 in
 Depth of Duct: 5.63 in
 Cross Sectional Area of Duct: 0.17 ft²
 No. of Test Ports: 2
 Distance A: 0.8 ft
 Distance A Duct Diameters: 1.8 (must be > 0.5)
 Distance B: 1.1 ft
 Distance B Duct Diameters: 2.3 (must be > 2)
 Minimum Number of Traverse Points: 24
 Actual Number of Traverse Points: 24
 Number of Readings per Point: 1
 Measurer (Initial and Date): GWH 3/16/21
 Reviewer (Initial and Date): GWH 3/16/21



CIRCULAR DUCT

LOCATION OF TRAVERSE POINTS

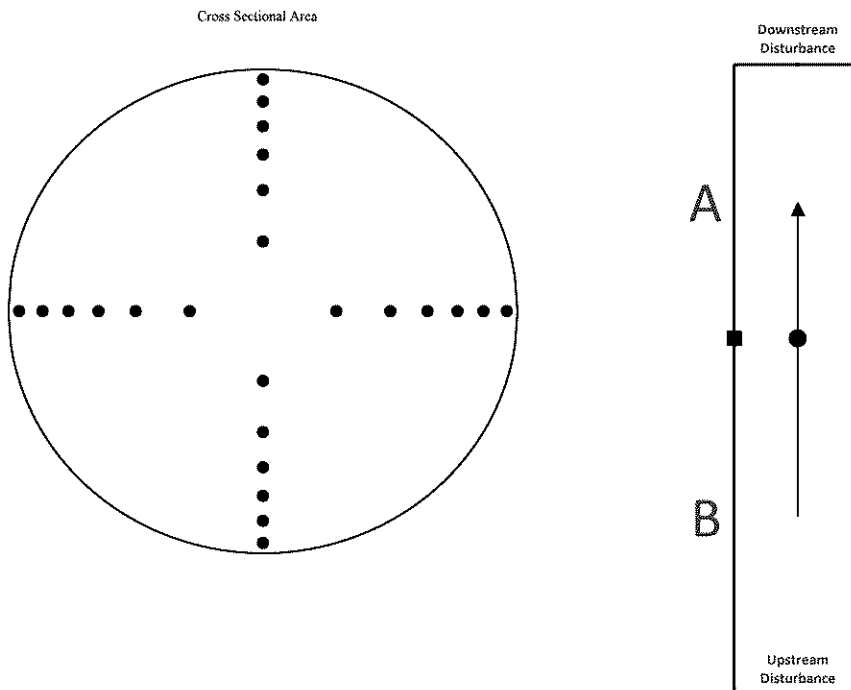
Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.63 |
| 2 | 6.7 | 0.50 | 0.63 |
| 3 | 11.8 | 0.66 | 0.79 |
| 4 | 17.7 | 1.00 | 1.12 |
| 5 | 25.0 | 1.41 | 1.53 |
| 6 | 35.6 | 2.00 | 2.13 |
| 7 | 64.4 | 3.62 | 3.75 |
| 8 | 75.0 | 4.22 | 4.34 |
| 9 | 82.3 | 4.63 | 4.75 |
| 10 | 88.2 | 4.96 | 5.09 |
| 11 | 93.3 | 5.13 | 5.25 |
| 12 | 97.9 | 5.13 | 5.25 |

**Percent of stack diameter from inside wall to traverse point.*

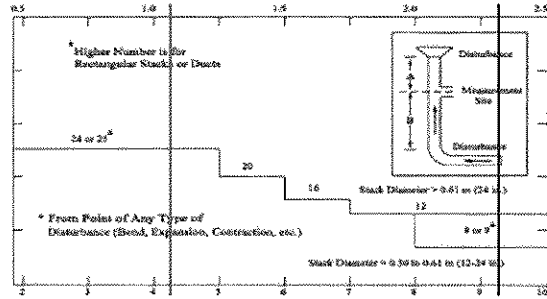
Stack Diagram
 A = 0.8333333
 B = 1.0833333
 Depth of Duct = 5.625 in.



Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Date: 03/16/21

Stack Parameters - Sampling Location

Duct Orientation: Vertical
 Duct Design: Circular
 Distance from Far Wall to Outside of Port: 5.75 in
 Nipple Length: 0.13 in
 Depth of Duct: 5.63 in
 Cross Sectional Area of Duct: 0.17 ft²
 No. of Test Ports: 2
 Distance A: 1.1 ft
 Distance A Duct Diameters: 2.3 (must be > 0.5)
 Distance B: 2.0 ft
 Distance B Duct Diameters: 4.3 (must be > 2)
 Minimum Number of Traverse Points: 24
 Actual Number of Traverse Points: 24
 Number of Readings per Point: 1
 Measurer (Initial and Date): GWH 3/16/21
 Reviewer (Initial and Date): GWH 3/16/21



CIRCULAR DUCT

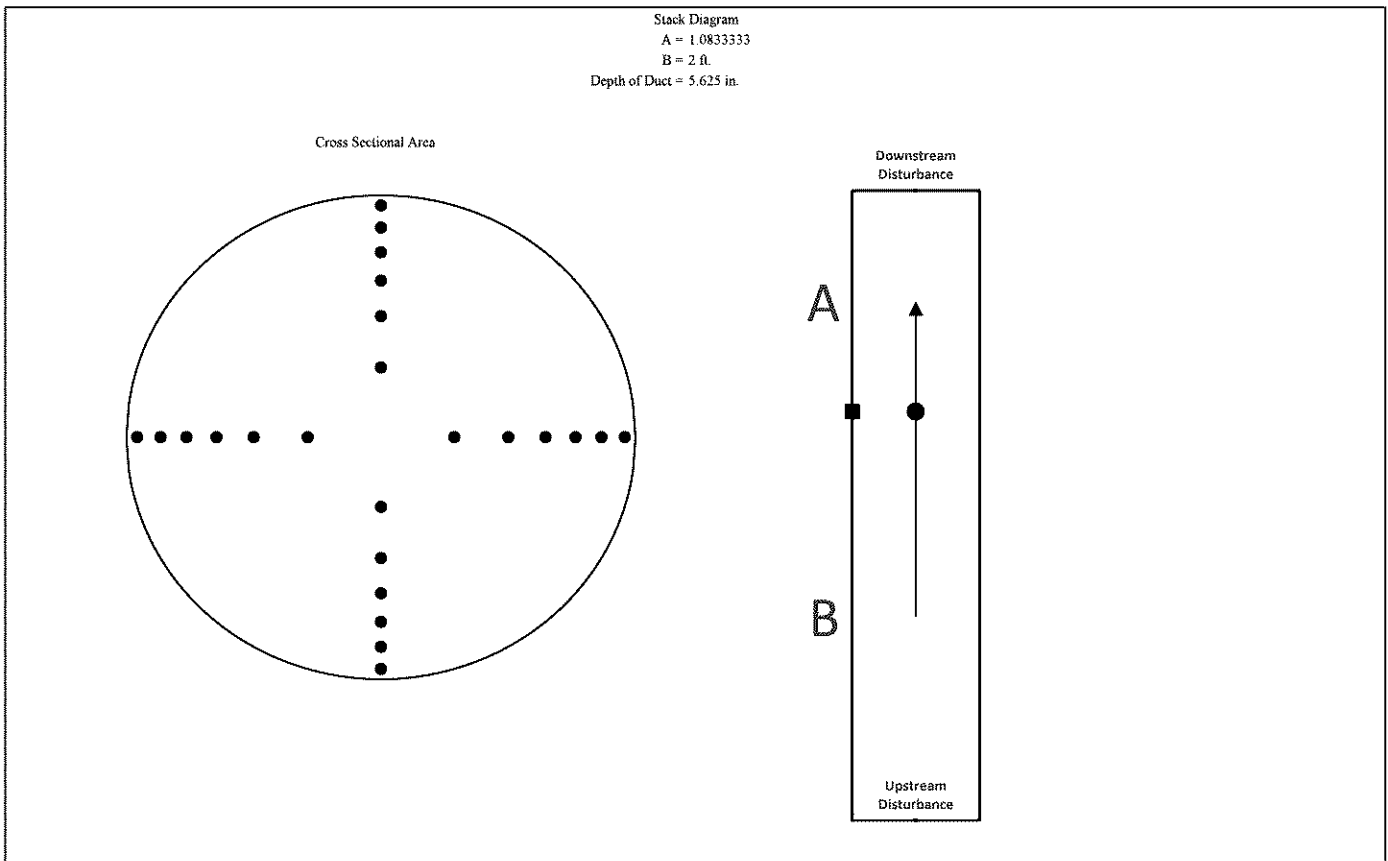
LOCATION OF TRAVERSE POINTS

Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.63 |
| 2 | 6.7 | 0.50 | 0.63 |
| 3 | 11.8 | 0.66 | 0.79 |
| 4 | 17.7 | 1.00 | 1.12 |
| 5 | 25.0 | 1.41 | 1.53 |
| 6 | 35.6 | 2.00 | 2.13 |
| 7 | 64.4 | 3.62 | 3.75 |
| 8 | 75.0 | 4.22 | 4.34 |
| 9 | 82.3 | 4.63 | 4.75 |
| 10 | 88.2 | 4.96 | 5.09 |
| 11 | 93.3 | 5.13 | 5.25 |
| 12 | 97.9 | 5.13 | 5.25 |

**Percent of stack diameter from inside wall to traverse point.*



Location All American Asphalt

Source CAU - Outlet

Project No. 2021-0883

Parameter PAH

Analysis Gravimetric

| Run 1 | | Date: 3/17/21 | | | | |
|------------------------|----------|----------------------|----------|----------|----------|--------------|
| Impinger No. | 1 | 2 | 3 | 4 | 5 | Total |
| Contents | Empty | H2O | H2O | Empty | Silica | -- |
| Initial Mass, g | 490.6 | 743.2 | 696.0 | 565.3 | 992.3 | 3487.4 |
| Final Mass, g | 494.8 | 707.9 | 691.2 | 575.4 | 1056.4 | 3525.7 |
| Gain | 4.2 | -35.3 | -4.8 | 10.1 | 64.1 | 38.3 |
| Run 2 | | Date: 3/18/21 | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | Total |
| Contents | Empty | H2O | H2O | Empty | Silica | -- |
| Initial Mass, g | 491.2 | 753.4 | 690.8 | 565.9 | 990.0 | 3491.3 |
| Final Mass, g | 496.3 | 725.9 | 686.5 | 573.8 | 1052.7 | |
| Gain | 5.1 | -27.5 | -4.3 | 7.9 | 62.7 | 43.9 |
| Run 3 | | Date: 3/19/21 | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | Total |
| Contents | Empty | H2O | H2O | Empty | Silica | -- |
| Initial Mass, g | 490.5 | 760.5 | 685.5 | 564.7 | 990.2 | 3491.4 |
| Final Mass, g | 496.3 | 728.1 | 673.8 | 576.5 | 1069.7 | 3544.4 |
| Gain | 5.8 | -32.4 | -11.7 | 11.8 | 79.5 | 53.0 |

| | | | | | |
|--------------------------------------|-------------------------------|--|-----------------|-------------------------|----------------------------------|
| Location: All American Asphalt | | Start Time: 5:52 | | Source: CAU - Outlet | |
| Date: 3/17/21 | Run 1 | VALID | End Time: 14:45 | Project No.: 2021-0883 | Parameter: PAH |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | |
| Moisture: 5.0 % est. | Meter Box ID: M5-30 | Est. Tm: 50 °F | FILTER NO. | | STACK DATA (FINAL) |
| Barometric: 30.08 in. Hg | Y: 0.9958 | Est. Ts: 65 °F | | | Pb: 29.52 in. Hg |
| Static Press: -1.00 in. WC | ΔH @ (in.WC): 1.887 | Est. ΔP: 1.11 in. WC | | | Pg: 0.86 in. WC |
| Stack Press: 30.01 in. Hg | Probe ID: P702-3 | Est. Dn: 0.188 in. | | | O ₂ : 20.9 % |
| CO ₂ : 0.0 % | Liner Material: glass | Target Rate: 0.75 scfm | | | CO ₂ : 0.0 % |
| O ₂ : 20.9 % | Pitot ID: PS-2 | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | Check Pt. Initial Final Corr. |
| N ₂ /CO: 79.1 % | Pitot Cp/Type: 0.990 standard | Leak Rate (cfm): 0.005 0.000 -- -- 0.003 | | | Mid 1 (cf) 331.904 332.227 0.323 |
| Md: 28.84 lb/lb-mole | Nozzle ID: G-195-1 glass | Vacuum (in Hg): 15 10 -- -- 10 | | | Mid 2 (cf) -- |
| Ms: 28.29 lb/lb-mole | Nozzle Dn (in.): 0.195 | Pitot Tube: Pass -- -- Pass | | | Mid 3 (cf) -- |
| Mid-Point Leak Check Vol (cf): 0.323 | | | | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | Begin | End | | | DGM Average | | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Stack | | | | | | | | | |
| A1 | 0:00 | 20:00 | 121.838 | 1.30 | 45 | 55 | 2.63 | 2.70 | 10 | 246 | 252 | 42 | 52 | 103.0 | 75.16 |
| 2 | 20:00 | 40:00 | 140.250 | 1.30 | 52 | 55 | 2.67 | 2.70 | 10 | 250 | 248 | 44 | 52 | 100.9 | 75.16 |
| 3 | 40:00 | 60:00 | 158.520 | 1.20 | 53 | 57 | 2.46 | 2.50 | 10 | 249 | 254 | 46 | 53 | 101.3 | 72.35 |
| 4 | 60:00 | 80:00 | 176.160 | 1.20 | 54 | 60 | 2.45 | 2.50 | 10 | 252 | 250 | 46 | 54 | 99.3 | 72.56 |
| 5 | 80:00 | 100:00 | 193.430 | 1.20 | 54 | 63 | 2.44 | 2.50 | 10 | 250 | 248 | 46 | 51 | 101.5 | 72.77 |
| 6 | 100:00 | 120:00 | 211.040 | 1.20 | 54 | 66 | 2.42 | 2.50 | 10 | 247 | 249 | 47 | 54 | 100.8 | 72.98 |
| 7 | 120:00 | 140:00 | 228.470 | 1.20 | 55 | 68 | 2.42 | 2.50 | 10 | 247 | 250 | 48 | 58 | 100.1 | 73.11 |
| 8 | 140:00 | 160:00 | 245.790 | 1.20 | 57 | 72 | 2.41 | 2.50 | 10 | 249 | 250 | 48 | 58 | 102.1 | 73.39 |
| 9 | 160:00 | 180:00 | 263.460 | 1.20 | 58 | 75 | 2.40 | 2.50 | 10 | 250 | 253 | 49 | 50 | 99.0 | 73.60 |
| 10 | 180:00 | 200:00 | 280.570 | 1.20 | 60 | 78 | 2.39 | 2.50 | 10 | 249 | 250 | 45 | 45 | 105.9 | 73.80 |
| 11 | 200:00 | 220:00 | 298.900 | 1.00 | 61 | 82 | 1.99 | 2.00 | 10 | 247 | 251 | 44 | 36 | 109.2 | 67.62 |
| 12 | 220:00 | 240:00 | 316.140 | 1.00 | 62 | 85 | 1.98 | 2.00 | 10 | 240 | 253 | 46 | 37 | 99.9 | 67.81 |
| B1 | 240:00 | 260:00 | 331.904 | 0.82 | 70 | 92 | 1.63 | 1.70 | 5 | 238 | 250 | 50 | 43 | 103.7 | 61.80 |
| 2 | 260:00 | 280:00 | 346.860 | 1.10 | 74 | 95 | 2.19 | 2.20 | 8 | 246 | 242 | 54 | 40 | 96.1 | 71.77 |
| 3 | 280:00 | 300:00 | 362.970 | 1.20 | 78 | 97 | 2.39 | 2.50 | 9 | 248 | 251 | 56 | 38 | 99.4 | 75.10 |
| 4 | 300:00 | 320:00 | 380.460 | 0.88 | 81 | 100 | 1.76 | 1.80 | 8 | 254 | 248 | 55 | 39 | 98.4 | 64.48 |
| 5 | 320:00 | 340:00 | 395.350 | 0.95 | 81 | 100 | 1.90 | 2.00 | 8 | 251 | 247 | 61 | 41 | 99.9 | 67.00 |
| 6 | 340:00 | 360:00 | 411.060 | 1.00 | 83 | 102 | 2.00 | 2.00 | 8 | 247 | 246 | 60 | 40 | 93.8 | 68.86 |
| 7 | 360:00 | 380:00 | 426.220 | 1.10 | 84 | 101 | 2.20 | 2.30 | 8 | 250 | 248 | 54 | 38 | 98.5 | 72.16 |
| 8 | 380:00 | 400:00 | 442.940 | 1.10 | 84 | 101 | 2.20 | 2.30 | 9 | 247 | 250 | 55 | 36 | 101.5 | 72.16 |
| 9 | 400:00 | 420:00 | 460.170 | 1.10 | 85 | 101 | 2.21 | 2.30 | 9 | 247 | 248 | 56 | 43 | 97.6 | 72.16 |
| 10 | 420:00 | 440:00 | 476.780 | 1.10 | 83 | 102 | 2.20 | 2.30 | 9 | 248 | 251 | 58 | 48 | 105.4 | 72.22 |
| 11 | 440:00 | 460:00 | 494.630 | 0.92 | 82 | 98 | 1.85 | 1.90 | 8 | 243 | 248 | 60 | 54 | 101.6 | 65.81 |
| 12 | 460:00 | 480:00 | 510.410 | 1.10 | 80 | 98 | 2.20 | 2.30 | 8 | 252 | 249 | 61 | 59 | 97.9 | 71.96 |

Final DGM: 526.962

| RESULTS | Run Time | | Vm | AP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | Y _{qs} | | | | | |
|---------|----------|-------|-----|---------|-----------------|------|---------|------|------|------|-----------------|----|-------|--------|------|-------|
| | | 480.0 | min | 404.801 | ft ³ | 1.11 | in. WC | 67.9 | °F | 83.5 | °F | 10 | 2.292 | in. WC | 98.6 | 0.004 |

| Location: All American Asphalt | | | Start Time: 4:40 | | Source: CAU - Outlet | | | | |
|--------------------------------|------------------|------------------|------------------|--|----------------------|------------------------|-----------------------------------|--------------|----------|
| Date: 3/18/21 | | Run 2 | VALID | End Time: 12:46 | | Project No.: 2021-0883 | Parameter: PAH | | |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA | |
| Moisture: | 1.0 % est. | Meter Box ID: | M5-30 | Est. Tm: | 68 °F | | Pb: | 29.55 in. Hg | Vlc (ml) |
| Barometric: | 30.08 in. Hg | Y: | 0.9958 | Est. Ts: | 83 °F | | Pg: | 0.81 in. WC | 43.9 |
| Static Press: | -1.00 in. WC | ΔH @ (in.WC): | 1.887 | Est. AP: | 1.11 in. WC | | O ₂ : | 20.9 % | K-FACTOR |
| Stack Press: | 30.01 in. Hg | Probe ID: | P702-3 | Est. Dn: | 0.183 in. | | CO ₂ : | 0.0 % | 2.15 |
| CO ₂ : | 0.0 % | Liner Material: | glass | Target Rate: | 0.75 scfm | | Check Pt. Initial Final Corr. | | |
| O ₂ : | 20.9 % | Pitot ID: | PS-2 | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | Mid 1 (cf) | -- | |
| N ₂ /CO: | 79.1 % | Pitot Cp/Type: | 0.990 standard | Leak Rate (cfm): 0.000 -- -- -- 0.000 | | | Mid 2 (cf) | -- | |
| Md: | 28.84 lb/lb-mole | Nozzle ID: | G-195-1 glass | Vacuum (in Hg): 15 -- -- -- 10 | | | Mid 3 (cf) | -- | |
| Ms: | 28.73 lb/lb-mole | Nozzle Dn (in.): | 0.195 | Pitot Tube: Pass -- -- -- Pass | | | Mid-Point Leak Check Vol (cf): -- | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | | | | | DGM Average | Stack | Ideal Actual | | | Probe | Filter | Imp Exit | Aux | | |
| | Amb. | Amb. | | | | | Amb. | Amb. | | Amb. | Amb. | | | | |
| | -- | -- | | | | | -- | -- | | -- | -- | | | | |
| A1 | 0:00 | 20:00 | 527.498 | 1.20 | 52 | 75 | 2.54 | 2.50 | 4 | 250 | 250 | 46 | 38 | 97.0 | 73.04 |
| 2 | 20:00 | 40:00 | 544.640 | 1.10 | 51 | 80 | 2.30 | 2.30 | 6 | 246 | 250 | 44 | 37 | 99.0 | 70.26 |
| 3 | 40:00 | 60:00 | 561.280 | 1.00 | 51 | 78 | 2.10 | 2.10 | 6 | 240 | 250 | 45 | 37 | 99.4 | 66.86 |
| 4 | 60:00 | 80:00 | 577.250 | 1.20 | 50 | 76 | 2.52 | 2.50 | 6 | 244 | 250 | 50 | 36 | 98.0 | 73.11 |
| 5 | 80:00 | 100:00 | 594.490 | 1.20 | 52 | 76 | 2.53 | 2.50 | 6 | 243 | 250 | 47 | 37 | 97.7 | 73.11 |
| 6 | 100:00 | 120:00 | 611.740 | 1.20 | 51 | 75 | 2.53 | 2.50 | 6 | 240 | 250 | 47 | 36 | 98.2 | 73.04 |
| 7 | 120:00 | 140:00 | 629.050 | 1.10 | 53 | 78 | 2.32 | 2.30 | 6 | 242 | 250 | 47 | 37 | 98.8 | 70.13 |
| 8 | 140:00 | 160:00 | 645.750 | 1.10 | 53 | 77 | 2.32 | 2.30 | 6 | 242 | 250 | 48 | 39 | 98.5 | 70.06 |
| 9 | 160:00 | 180:00 | 662.420 | 1.10 | 54 | 77 | 2.33 | 2.30 | 6 | 248 | 250 | 49 | 40 | 100.0 | 70.06 |
| 10 | 180:00 | 200:00 | 679.380 | 1.20 | 56 | 79 | 2.54 | 2.50 | 6 | 247 | 249 | 52 | 43 | 97.6 | 73.31 |
| 11 | 200:00 | 220:00 | 696.700 | 1.10 | 56 | 80 | 2.32 | 2.30 | 6 | 245 | 251 | 54 | 46 | 98.8 | 70.26 |
| 12 | 220:00 | 240:00 | 713.470 | 0.90 | 59 | 83 | 1.90 | 1.90 | 5 | 250 | 249 | 60 | 49 | 99.9 | 63.73 |
| B1 | 240:00 | 260:00 | 728.878 | 1.10 | 58 | 86 | 2.31 | 2.30 | 6 | 244 | 250 | 58 | 44 | 98.9 | 70.65 |
| 2 | 260:00 | 280:00 | 745.650 | 1.10 | 60 | 88 | 2.31 | 2.30 | 6 | 252 | 249 | 61 | 51 | 91.3 | 70.77 |
| 3 | 280:00 | 300:00 | 761.160 | 1.20 | 61 | 88 | 2.52 | 2.50 | 6 | 246 | 249 | 55 | 41 | 98.3 | 73.92 |
| 4 | 300:00 | 320:00 | 778.630 | 1.20 | 70 | 91 | 2.55 | 2.60 | 7 | 249 | 250 | 53 | 41 | 99.7 | 74.12 |
| 5 | 320:00 | 340:00 | 796.600 | 1.20 | 73 | 93 | 2.55 | 2.60 | 7 | 251 | 246 | 53 | 41 | 97.9 | 74.26 |
| 6 | 340:00 | 360:00 | 814.300 | 1.20 | 76 | 95 | 2.56 | 2.60 | 7 | 247 | 251 | 55 | 42 | 98.5 | 74.39 |
| 7 | 360:00 | 380:00 | 832.180 | 1.10 | 78 | 98 | 2.34 | 2.40 | 7 | 251 | 249 | 56 | 43 | 100.2 | 71.42 |
| 8 | 380:00 | 400:00 | 849.620 | 1.10 | 82 | 98 | 2.36 | 2.40 | 7 | 244 | 250 | 58 | 45 | 97.8 | 71.42 |
| 9 | 400:00 | 420:00 | 866.770 | 1.00 | 83 | 99 | 2.15 | 2.20 | 6 | 250 | 251 | 62 | 51 | 102.9 | 68.16 |
| 10 | 420:00 | 440:00 | 884.010 | 0.88 | 84 | 100 | 1.89 | 1.90 | 6 | 249 | 249 | 64 | 57 | 101.3 | 63.99 |
| 11 | 440:00 | 460:00 | 899.950 | 0.77 | 80 | 102 | 1.64 | 1.60 | 5 | 248 | 248 | 64 | 45 | 98.2 | 59.97 |
| 12 | 460:00 | 480:00 | 914.280 | 0.83 | 85 | 104 | 1.77 | 1.80 | 5 | 247 | 246 | 58 | 44 | 99.0 | 62.37 |

Final DGM: 929.384

| RESULTS | Run Time | Vm | AP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|-------|-------|-----------------|
| | 480.0 min | 401.886 ft ³ | 1.09 in. WC | 63.7 °F | 86.5 °F | 7 | 2.300 in. WC | 100.0 | 0.005 | 1.4 |

| Location: All American Asphalt | | Start Time: 4:40 | | Source: CAU - Outlet | | | | | | | | | |
|--------------------------------|-------|-------------------------------|-----------------|--|----------------|------------|--|-------------------------|--|--------------------------------|---------|-------|-------|
| Date: 3/19/21 | Run 3 | VALID | End Time: 12:49 | Project No.: 2021-0883 | Parameter: PAH | | | | | | | | |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | | | |
| Moisture: 1.0 % est. | | Meter Box ID: M5-30 | | Est. Tm: 64 °F | | | | Pb: 29.59 in. Hg | | Vlc (ml) | | | |
| Barometric: 30.08 in. Hg | | Y: 0.9958 | | Est. Ts: 87 °F | | | | Pg: 0.79 in. WC | | 53.0 | | | |
| Static Press: -1.00 in. WC | | ΔH @ (in.WC): 1.887 | | Est. ΔP: 1.09 in. WC | | | | O ₂ : 20.9 % | | K-FACTOR | | | |
| Stack Press: 30.01 in. Hg | | Probe ID: P702-3 | | Est. Dn: 0.185 in. | | | | CO ₂ : 0.0 % | | 2.119 | | | |
| CO ₂ : 0.0 % | | Liner Material: glass | | Target Rate: 0.75 scfm | | | | | | Check Pt. | Initial | Final | Corr. |
| O ₂ : 20.9 % | | Pitot ID: PS-2 | | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | | | | Mid 1 (cf) | | | -- |
| N ₂ /CO: 79.1 % | | Pitot Cp/Type: 0.990 standard | | Leak Rate (cfm): 0.000 -- -- -- 0.000 | | | | | | Mid 2 (cf) | | | -- |
| Md: 28.84 lb/lb-mole | | Nozzle ID: G-195-1 glass | | Vacuum (in Hg): 15 -- -- -- 10 | | | | | | Mid 3 (cf) | | | -- |
| Ms: 28.73 lb/lb-mole | | Nozzle Dn (in.): 0.195 | | Pitot Tube: Pass -- -- -- Pass | | | | | | Mid-Point Leak Check Vol (cf): | | | -- |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | | | | | | | | | | | |
| A1 | 0:00 | 20:00 | 929.848 | 0.98 | 52 | 78 | 2.06 | 2.10 | 5 | 250 | 252 | 48 | 37 | 102.2 | 66.19 |
| 2 | 20:00 | 40:00 | 946.130 | 1.20 | 53 | 83 | 2.50 | 2.50 | 6 | 247 | 249 | 48 | 38 | 100.4 | 73.58 |
| 3 | 40:00 | 60:00 | 963.780 | 1.20 | 55 | 82 | 2.52 | 2.50 | 6 | 248 | 251 | 49 | 39 | 100.6 | 73.52 |
| 4 | 60:00 | 80:00 | 981.540 | 1.20 | 56 | 83 | 2.52 | 2.50 | 6 | 248 | 249 | 49 | 40 | 99.0 | 73.58 |
| 5 | 80:00 | 100:00 | 999.040 | 1.20 | 56 | 83 | 2.52 | 2.50 | 6 | 244 | 251 | 52 | 37 | 97.3 | 73.58 |
| 6 | 100:00 | 120:00 | 1016.240 | 1.20 | 55 | 82 | 2.52 | 2.50 | 6 | 247 | 250 | 51 | 38 | 98.0 | 73.52 |
| 7 | 120:00 | 140:00 | 1033.550 | 1.20 | 56 | 82 | 2.52 | 2.50 | 6 | 245 | 251 | 52 | 39 | 97.6 | 73.52 |
| 8 | 140:00 | 160:00 | 1050.820 | 1.10 | 55 | 82 | 2.31 | 2.30 | 6 | 246 | 252 | 53 | 40 | 99.5 | 70.39 |
| 9 | 160:00 | 180:00 | 1067.650 | 1.10 | 56 | 80 | 2.32 | 2.30 | 6 | 248 | 250 | 54 | 42 | 97.1 | 70.26 |
| 10 | 180:00 | 200:00 | 1084.130 | 1.20 | 56 | 81 | 2.53 | 2.50 | 6 | 242 | 250 | 58 | 48 | 97.4 | 73.45 |
| 11 | 200:00 | 220:00 | 1101.370 | 1.00 | 58 | 82 | 2.11 | 2.10 | 5 | 240 | 251 | 60 | 54 | 101.8 | 67.11 |
| 12 | 220:00 | 240:00 | 1117.890 | 0.95 | 60 | 83 | 2.01 | 2.00 | 5 | 246 | 251 | 57 | 38 | 90.3 | 65.47 |
| B1 | 240:00 | 260:00 | 1132.220 | 1.00 | 60 | 85 | 2.11 | 2.10 | 6 | 241 | 250 | 58 | 39 | 99.2 | 67.30 |
| 2 | 260:00 | 280:00 | 1148.340 | 1.10 | 64 | 86 | 2.33 | 2.30 | 6 | 239 | 248 | 59 | 40 | 99.4 | 70.65 |
| 3 | 280:00 | 300:00 | 1165.380 | 1.20 | 64 | 89 | 2.53 | 2.60 | 6 | 237 | 246 | 58 | 41 | 94.7 | 73.99 |
| 4 | 300:00 | 320:00 | 1182.280 | 1.20 | 73 | 91 | 2.56 | 2.60 | 6 | 239 | 249 | 59 | 42 | 99.2 | 74.12 |
| 5 | 320:00 | 340:00 | 1200.260 | 1.20 | 76 | 93 | 2.57 | 2.60 | 6 | 241 | 246 | 60 | 47 | 97.6 | 74.26 |
| 6 | 340:00 | 360:00 | 1218.010 | 1.20 | 79 | 96 | 2.57 | 2.60 | 9 | 249 | 249 | 61 | 40 | 96.0 | 74.46 |
| 7 | 360:00 | 380:00 | 1235.530 | 1.20 | 84 | 97 | 2.59 | 2.60 | 9 | 241 | 252 | 58 | 37 | 98.4 | 74.53 |
| 8 | 380:00 | 400:00 | 1253.630 | 1.10 | 87 | 99 | 2.38 | 2.40 | 9 | 248 | 251 | 59 | 40 | 102.5 | 71.48 |
| 9 | 400:00 | 420:00 | 1271.750 | 1.00 | 91 | 100 | 2.17 | 2.20 | 9 | 249 | 250 | 60 | 40 | 98.6 | 68.22 |
| 10 | 420:00 | 440:00 | 1288.490 | 1.00 | 92 | 102 | 2.17 | 2.20 | 9 | 249 | 248 | 62 | 43 | 98.2 | 68.34 |
| 11 | 440:00 | 460:00 | 1305.160 | 0.88 | 94 | 103 | 1.92 | 1.90 | 8 | 248 | 250 | 62 | 48 | 99.4 | 64.16 |
| 12 | 460:00 | 480:00 | 1321.040 | 0.85 | 94 | 103 | 1.85 | 1.90 | 8 | 250 | 251 | 63 | 51 | 104.8 | 63.06 |

Final DGM: 1337.504

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|-------|-------|-----------------|
| | 480.0 min | 407.656 ft ³ | 1.10 in. WC | 67.8 °F | 88.5 °F | 9 | 2.346 in. WC | 100.3 | 0.006 | 1.4 |

Location All American Asphalt
Source CAU - Inlet
Project No. 2021-0883
Parameter(s): Metals

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|---------|--------------|--------------|--------------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:37 | 12:46 | 12:49 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 677 | 644 | 638 | 653 |
| Standard Meter Volume, ft ³ | (Vmstd) | 373.783 | 364.316 | 348.147 | 362.082 |
| Lab Data | | | | | |
| Aluminum Mass, ug | M | 100 | 94 | 96 | 96.7 |
| Antimony Mass, ug | M | <u>0.68</u> | <u>0.68</u> | <u>0.68</u> | 0.7 |
| Arsenic Mass, ug | M | 0.88 | 0.40 | <u>0.27</u> | 0.5 |
| Barium Mass, ug | M | 5.3 | 6.6 | 7.3 | 6.4 |
| Beryllium Mass, ug | M | <u>2.3</u> | <u>2.3</u> | <u>2.3</u> | 2.3 |
| Cadmium Mass, ug | M | 0.17 | 0.16 | <u>0.14</u> | 0.2 |
| Chromium Mass, ug | M | 3.7 | 2.5 | 2.000 | 2.7 |
| Cobalt Mass, ug | M | 0.10 | 0.059 | 0.0054 | 0.1 |
| Copper Mass, ug | M | 4.5 | 2.5 | 9.2 | 5.4 |
| Lead Mass, ug | M | 1.7 | 0.53 | 0.45 | 0.9 |
| Manganese Mass, ug | M | 8.2 | 4.9 | 2.8 | 5.3 |
| Nickel Mass, ug | M | 4.4 | 3.3 | 2.5 | 3.4 |
| Phosphorus Mass, ug | M | 32 | 32 | 26 | 30.0 |
| Selenium Mass, ug | M | <u>0.27</u> | <u>0.27</u> | 0.28 | 0.3 |
| Silver Mass, ug | M | 0.88 | 0.36 | 0.19 | 0.5 |
| Thallium Mass, ug | M | <u>0.054</u> | <u>0.054</u> | <u>0.054</u> | 0.1 |
| Vanadium Mass, ug | M | <u>0.18</u> | <u>0.18</u> | <u>0.18</u> | 0.2 |
| Zinc Mass, ug | M | 9.8 | 8.3 | 9.6 | 9.2 |
| Mercury Mass, ug | M | 2.0 | <u>0.87</u> | <u>1.7</u> | 1.5 |
| Emissions Calculations | | | | | |
| Aluminum Concentration, ug/dscm | C | 9.4 | 9.1 | 9.7 | 9.4 |
| Aluminum Emission Rate, lb/hr | ER | 2.4E-05 | 2.2E-05 | 2.3E-05 | 2.3E-05 |
| Antimony Concentration, ug/dscm | C | 0.064 | 0.066 | 0.069 | 0.066 |
| Antimony Emission Rate, lb/hr | ER | 1.6E-07 | 1.6E-07 | 1.6E-07 | 1.6E-07 |
| Arsenic Concentration, ug/dscm | C | 0.083 | 0.039 | 0.027 | 0.050 |
| Arsenic Emission Rate, lb/hr | ER | 2.1E-07 | 9.4E-08 | 6.5E-08 | 1.2E-07 |
| Barium Concentration, ug/dscm | C | 0.50 | 0.64 | 0.74 | 0.63 |
| Barium Emission Rate, lb/hr | ER | 1.3E-06 | 1.5E-06 | 1.8E-06 | 1.5E-06 |
| Beryllium Concentration, ug/dscm | C | 0.22 | 0.22 | 0.23 | 0.22 |
| Beryllium Emission Rate, lb/hr | ER | 5.5E-07 | 5.4E-07 | 5.6E-07 | 5.5E-07 |
| Cadmium Concentration, ug/dscm | C | 0.016 | 0.016 | 0.014 | 0.015 |
| Cadmium Emission Rate, lb/hr | ER | 4.1E-08 | 3.7E-08 | 3.4E-08 | 3.7E-08 |
| Chromium Concentration, ug/dscm | C | 0.35 | 0.24 | 0.20 | 0.26 |
| Chromium Emission Rate, lb/hr | ER | 8.9E-07 | 5.8E-07 | 4.8E-07 | 6.5E-07 |
| Cobalt Concentration, ug/dscm | C | 0.0094 | 0.0057 | 0.0005 | 0.0052 |
| Cobalt Emission Rate, lb/hr | ER | 2.4E-08 | 1.4E-08 | 1.3E-09 | 1.3E-08 |
| Copper Concentration, ug/dscm | C | 0.43 | 0.24 | 0.93 | 0.53 |
| Copper Emission Rate, lb/hr | ER | 1.1E-06 | 5.8E-07 | 2.2E-06 | 1.3E-06 |
| Lead Concentration, ug/dscm | C | 0.16 | 0.05 | 0.05 | 0.09 |
| Lead Emission Rate, lb/hr | ER | 4.1E-07 | 1.2E-07 | 1.1E-07 | 2.1E-07 |
| Manganese Concentration, ug/dscm | C | 0.77 | 0.47 | 0.28 | 0.51 |
| Manganese Emission Rate, lb/hr | ER | 2.0E-06 | 1.1E-06 | 6.8E-07 | 1.3E-06 |
| Nickel Concentration, ug/dscm | C | 0.42 | 0.32 | 0.25 | 0.33 |
| Nickel Emission Rate, lb/hr | ER | 1.1E-06 | 7.7E-07 | 6.1E-07 | 8.1E-07 |
| Phosphorus Concentration, ug/dscm | C | 3.0 | 3.1 | 2.6 | 2.9 |
| Phosphorus Emission Rate, lb/hr | ER | 7.7E-06 | 7.5E-06 | 6.3E-06 | 7.2E-06 |
| Selenium Concentration, ug/dscm | C | 0.026 | 0.026 | 0.028 | 0.027 |
| Selenium Emission Rate, lb/hr | ER | 6.5E-08 | 6.3E-08 | 6.8E-08 | 6.5E-08 |
| Silver Concentration, ug/dscm | C | 0.083 | 0.035 | 0.019 | 0.046 |
| Silver Emission Rate, lb/hr | ER | 2.1E-07 | 8.4E-08 | 4.6E-08 | 1.1E-07 |
| Thallium Concentration, ug/dscm | C | 0.0051 | 0.0052 | 0.0055 | 0.0053 |
| Thallium Emission Rate, lb/hr | ER | 1.3E-08 | 1.3E-08 | 1.3E-08 | 1.3E-08 |
| Vanadium Concentration, ug/dscm | C | 0.017 | 0.017 | 0.018 | 0.018 |
| Vanadium Emission Rate, lb/hr | ER | 4.3E-08 | 4.2E-08 | 4.4E-08 | 4.3E-08 |
| Zinc Concentration, ug/dscm | C | 0.93 | 0.80 | 0.97 | 0.90 |
| Zinc Emission Rate, lb/hr | ER | 2.3E-06 | 1.9E-06 | 2.3E-06 | 2.2E-06 |
| Mercury Concentration, ug/dscm | C | 0.18 | 0.084 | 0.18 | 0.15 |
| Mercury Emission Rate, lb/hr | ER | 4.7E-07 | 2.0E-07 | 4.2E-07 | 3.6E-07 |

Underlined values are reported at the method reporting limit

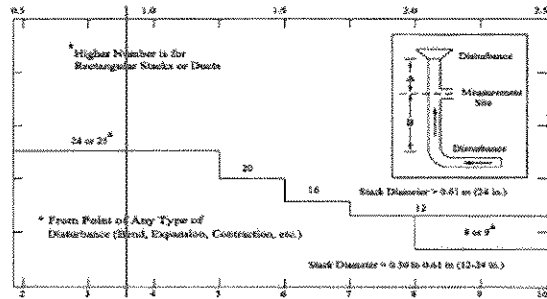
Location **All American Asphalt**
 Source **CAU - Inlet**
 Project No. **2021-0883**
 Parameter **Metals**

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|---|--------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:37 | 12:46 | 12:49 | -- |
| Run Time, min | | 480.0 | 480.0 | 480.0 | 480.0 |
| VELOCITY HEAD, in. WC | | | | | |
| Point 1 | | 0.64 | 0.65 | 0.71 | 0.67 |
| Point 2 | | 0.70 | 0.67 | 0.76 | 0.71 |
| Point 3 | | 0.72 | 0.68 | 0.74 | 0.71 |
| Point 4 | | 0.75 | 0.69 | 0.72 | 0.72 |
| Point 5 | | 0.80 | 0.71 | 0.68 | 0.73 |
| Point 6 | | 0.85 | 0.74 | 0.65 | 0.75 |
| Point 7 | | 0.85 | 0.73 | 0.68 | 0.75 |
| Point 8 | | 0.86 | 0.71 | 0.66 | 0.74 |
| Point 9 | | 0.86 | 0.69 | 0.70 | 0.75 |
| Point 10 | | 0.86 | 0.68 | 0.72 | 0.75 |
| Point 11 | | 0.88 | 0.69 | 0.69 | 0.75 |
| Point 12 | | 0.89 | 0.68 | 0.71 | 0.76 |
| Point 13 | | 0.72 | 0.70 | 0.76 | 0.73 |
| Point 14 | | 0.75 | 0.73 | 0.78 | 0.75 |
| Point 15 | | 0.78 | 0.76 | 0.77 | 0.77 |
| Point 16 | | 0.81 | 0.78 | 0.76 | 0.78 |
| Point 17 | | 0.82 | 0.77 | 0.75 | 0.78 |
| Point 18 | | 0.85 | 0.78 | 0.71 | 0.78 |
| Point 19 | | 0.86 | 0.76 | 0.68 | 0.77 |
| Point 20 | | 0.85 | 0.72 | 0.65 | 0.74 |
| Point 21 | | 0.81 | 0.71 | 0.64 | 0.72 |
| Point 22 | | 0.74 | 0.70 | 0.66 | 0.70 |
| Point 23 | | 0.72 | 0.70 | 0.68 | 0.70 |
| Point 24 | | 0.71 | 0.69 | 0.66 | 0.69 |
| CALCULATED DATA | | | | | |
| Square Root of ΔP , (in. WC) ^{1/2} | (ΔP) | 0.891 | 0.844 | 0.839 | 0.858 |
| Pitot Tube Coefficient | (Cp) | 0.990 | 0.990 | 0.990 | 0.990 |
| Barometric Pressure, in. Hg | (Pb) | 29.52 | 29.55 | 29.59 | 29.55 |
| Static Pressure, in. WC | (Pg) | -0.80 | -0.80 | -0.80 | -0.80 |
| Stack Pressure, in. Hg | (Ps) | 29.46 | 29.49 | 29.53 | 29.49 |
| Stack Cross-sectional Area, ft ² | (As) | 0.20 | 0.20 | 0.20 | 0.20 |
| Temperature, °F | (Ts) | 62.8 | 58.5 | 64.1 | 61.8 |
| Temperature, °R | (Ts) | 522.8 | 518.5 | 524.1 | 521.8 |
| Moisture Fraction Measured | (BWSmsd) | 0.010 | 0.011 | 0.009 | 0.010 |
| Moisture Fraction @ Saturation | (BWSsat) | 0.019 | 0.017 | 0.020 | 0.019 |
| Moisture Fraction | (BWS) | 0.010 | 0.011 | 0.009 | 0.010 |
| O ₂ Concentration, % | (O ₂) | 20.9 | 20.9 | 20.9 | 20.9 |
| CO ₂ Concentration, % | (CO ₂) | 0.0 | 0.0 | 0.0 | 0.0 |
| Molecular Weight, lb/lb-mole (dry) | (Md) | 28.84 | 28.84 | 28.84 | 28.84 |
| Molecular Weight, lb/lb-mole (wet) | (Ms) | 28.73 | 28.72 | 28.74 | 28.73 |
| Velocity, ft/sec | (Vs) | 59.2 | 55.9 | 55.8 | 57.0 |
| VOLUMETRIC FLOW RATE | | | | | |
| At Stack Conditions, acfm | (Qa) | 698 | 659 | 658 | 671 |
| At Standard Conditions, dscfm | (Qs) | 677 | 644 | 638 | 653 |

Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Date: 03/16/21

Stack Parameters - Pitot Location

Duct Orientation: Horizontal
 Duct Design: Circular
 Distance from Far Wall to Outside of Port: 6.00 in
 Nipple Length: 0.00 in
 Depth of Duct: 6.09 in
 Cross Sectional Area of Duct: 0.20 ft²
 No. of Test Ports: 2
 Distance A: 1.8 ft
 Distance A Duct Diameters: 3.6 (must be > 0.5)
 Distance B: 1.8 ft
 Distance B Duct Diameters: 3.6 (must be > 2)
 Minimum Number of Traverse Points: 24
 Actual Number of Traverse Points: 24
 Number of Readings per Point: 1
 Measurer (Initial and Date): RCL
 Reviewer (Initial and Date): GWJ



CIRCULAR DUCT

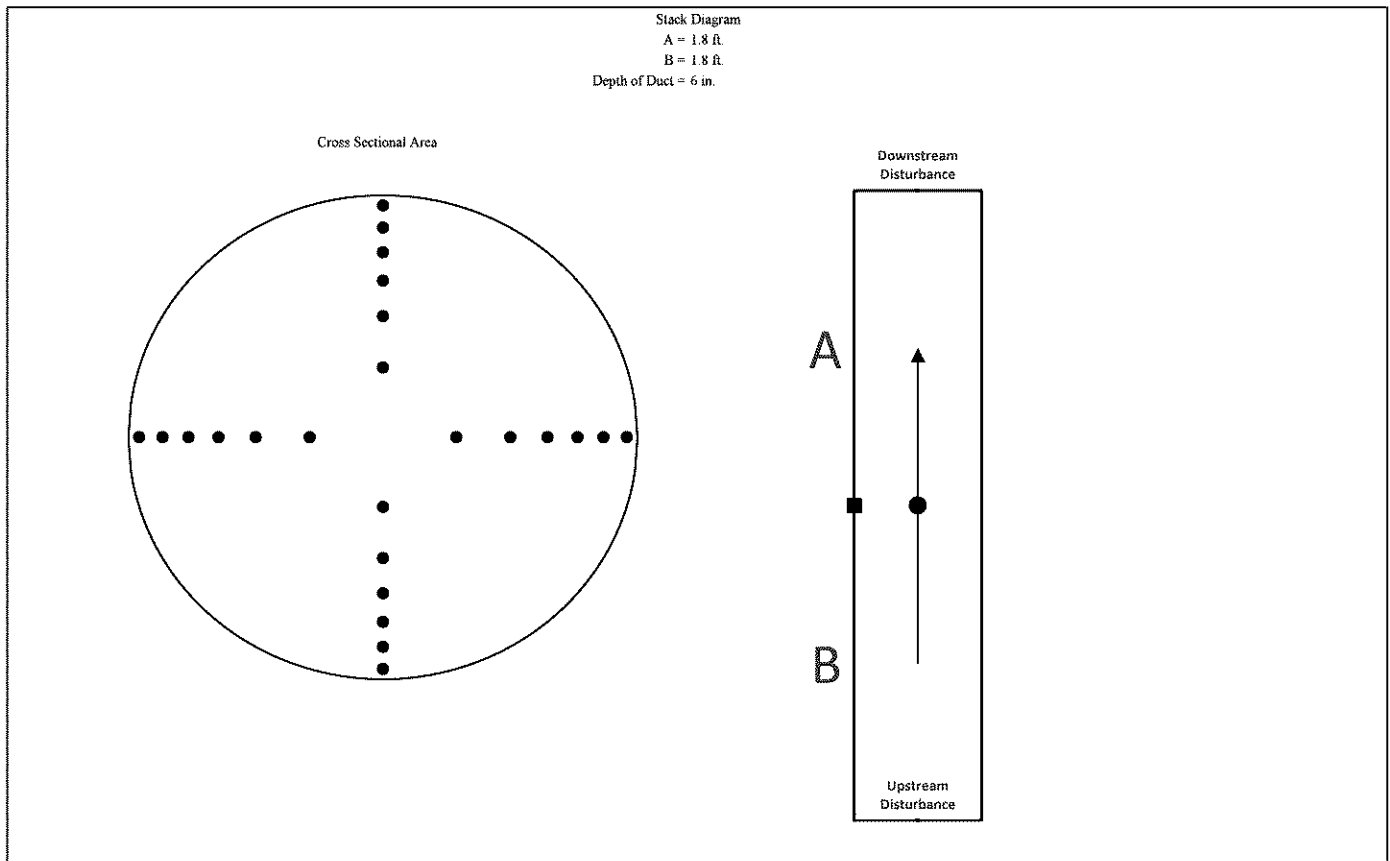
LOCATION OF TRAVERSE POINTS

Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.50 |
| 2 | 6.7 | 0.50 | 0.50 |
| 3 | 11.8 | 0.71 | 0.71 |
| 4 | 17.7 | 1.06 | 1.06 |
| 5 | 25.0 | 1.50 | 1.50 |
| 6 | 35.6 | 2.14 | 2.14 |
| 7 | 64.4 | 3.86 | 3.86 |
| 8 | 75.0 | 4.50 | 4.50 |
| 9 | 82.3 | 4.94 | 4.94 |
| 10 | 88.2 | 5.29 | 5.29 |
| 11 | 93.3 | 5.50 | 5.50 |
| 12 | 97.9 | 5.50 | 5.50 |

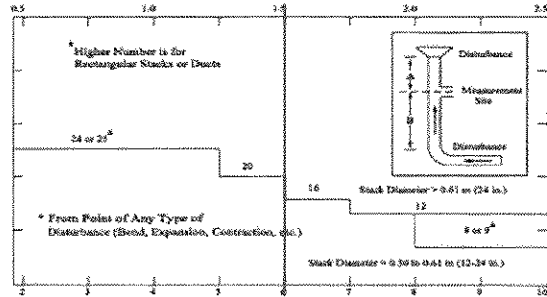
**Percent of stack diameter from inside wall to traverse point.*



Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Date: 03/16/21

Stack Parameters - Sampling Location

Duct Orientation: Horizontal
 Duct Design: Circular
 Distance from Far Wall to Outside of Port: 6.00 in
 Nipple Length: 0.00 in
 Depth of Duct: 6.09 in
 Cross Sectional Area of Duct: 0.20 ft²
 No. of Test Ports: 2
 Distance A: 1.8 ft
 Distance A Duct Diameters: 3.6 (must be > 0.5)
 Distance B: 3.0 ft
 Distance B Duct Diameters: 6.0 (must be > 2)
 Minimum Number of Traverse Points: 20
 Actual Number of Traverse Points: 24
 Number of Readings per Point: 1
 Measurer (Initial and Date): RCL
 Reviewer (Initial and Date): GWH



CIRCULAR DUCT

LOCATION OF TRAVERSE POINTS

Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.50 |
| 2 | 6.7 | 0.50 | 0.50 |
| 3 | 11.8 | 0.71 | 0.71 |
| 4 | 17.7 | 1.06 | 1.06 |
| 5 | 25.0 | 1.50 | 1.50 |
| 6 | 35.6 | 2.14 | 2.14 |
| 7 | 64.4 | 3.86 | 3.86 |
| 8 | 75.0 | 4.50 | 4.50 |
| 9 | 82.3 | 4.94 | 4.94 |
| 10 | 88.2 | 5.29 | 5.29 |
| 11 | 93.3 | 5.50 | 5.50 |
| 12 | 97.9 | 5.50 | 5.50 |

**Percent of stack diameter from inside wall to traverse point.*

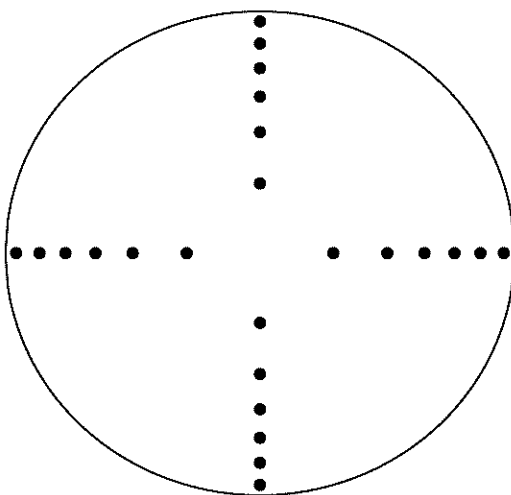
Stack Diagram

A = 1.8 ft.

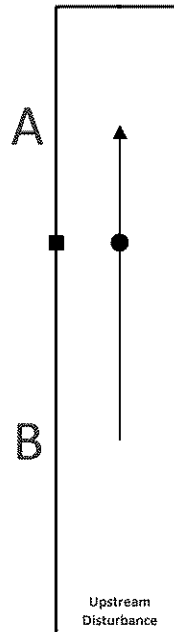
B = 3 ft.

Depth of Duct = 6 in.

Cross Sectional Area



Downstream Disturbance



Upstream Disturbance

Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Date 03/16/21

| Sample Point | Angle (AP=0) |
|----------------|--------------|
| 1 | 0 |
| 2 | 2 |
| 3 | 1 |
| 4 | 5 |
| 5 | 0 |
| 6 | 0 |
| 7 | 4 |
| 8 | 2 |
| 9 | 8 |
| 10 | 4 |
| 11 | 6 |
| 12 | 5 |
| 13 | 1 |
| 14 | 0 |
| 15 | 8 |
| 16 | 4 |
| 17 | 3 |
| 18 | 3 |
| 19 | 0 |
| 20 | 4 |
| 21 | 5 |
| 22 | 2 |
| 23 | 1 |
| 24 | 4 |
| Average | 3 |

Location All American Asphalt

Source CAU - Inlet

Project No. 2021-0883

Parameter Metals

Analysis Gravimetric

| Run 1 | | Date: 3/17/21 | | | | | |
|-----------------|-----------|---------------|-------|-------|-------|--------|--------|
| Impinger No. | 1 | 2 | 3 | 4 | 5 | 6 | Total |
| Contents | HNO3/H2O2 | HNO3/H2O2 | Empty | KMnO4 | KMnO4 | Silica | -- |
| Initial Mass, g | 713.7 | 771.0 | 643.5 | 742.9 | 754.5 | 983.2 | 4608.8 |
| Final Mass, g | 719.0 | 780.9 | 647.2 | 739.4 | 753.1 | 1048.6 | 4688.2 |
| Gain | 5.3 | 9.9 | 3.7 | -3.5 | -1.4 | 65.4 | 79.4 |
| Run 2 | | Date: 3/18/21 | | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | 6 | Total |
| Contents | HNO3/H2O2 | HNO3/H2O2 | Empty | KMnO4 | KMnO4 | Silica | -- |
| Initial Mass, g | 723.7 | 776.5 | 647.6 | 739.6 | 772.5 | 1015.0 | 4674.9 |
| Final Mass, g | 742.7 | 782.3 | 650.6 | 734.2 | 773.5 | 1077.2 | 4760.5 |
| Gain | 19.0 | 5.8 | 3.0 | -5.4 | 1.0 | 62.2 | 85.6 |
| Run 3 | | Date: 3/19/21 | | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | 6 | Total |
| Contents | HNO3/H2O2 | HNO3/H2O2 | Empty | KMnO4 | KMnO4 | Silica | -- |
| Initial Mass, g | 736.4 | 769.7 | 647.3 | 757.8 | 751.3 | 951.1 | 4613.6 |
| Final Mass, g | 744.6 | 774.5 | 649.5 | 750.3 | 751.2 | 1012.0 | 4682.1 |
| Gain | 8.2 | 4.8 | 2.2 | -7.5 | -0.1 | 60.9 | 68.5 |

| Location: All American Asphalt | | Start Time: 5:52 | | Source: CAU - Inlet | | | | | | | |
|--------------------------------|-------|-------------------------------|-----------------|--|-------------------|------------|--|--------------------------------|-------|-------------|--|
| Date: 3/17/21 | Run 1 | VALID | End Time: 14:37 | Project No.: 2021-0883 | Parameter: Metals | | | | | | |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | |
| Moisture: 5.0 % est. | | Meter Box ID: MS-69 | | Est. Tm: 60 °F | | | | Pb: 29.52 in. Hg | | Vle (ml) | |
| Barometric: 29.52 in. Hg | | Y: 0.9850 | | Est. Ts: 65 °F | | | | Pg: -0.80 in. WC | | 79.4 | |
| Static Press: -0.80 in. WC | | ΔH @ (in.WC): 1.930 | | Est. ΔP: 0.64 in. WC | | | | O ₂ : 20.9 % | | K-FACTOR | |
| Stack Press: 29.46 in. Hg | | Probe ID: PR502-3 | | Est. Dn: 0.212 in. | | | | CO ₂ : 0.0 % | | 2.510 | |
| CO ₂ : 0.0 % | | Liner Material: quartz | | Target Rate: 0.75 scfm | | | | Check Pt. Initial Final Corr. | | | |
| O ₂ : 20.9 % | | Pitot ID: ADP 1 | | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | | Mid 1 (cf) ##### | ##### | 0.300 | |
| N ₂ /CO: 79.1 % | | Pitot Cp/Type: 0.990 standard | | Leak Rate (cfm): 0.007 0.006 -- -- 0.003 | | | | Mid 2 (cf) | | -- | |
| Md: 28.84 lb/lb-mole | | Nozzle ID: .204 glass | | Vacuum (in Hg): 12 6 -- -- 6 | | | | Mid 3 (cf) | | -- | |
| Ms: 28.29 lb/lb-mole | | Nozzle Dn (in.): 0.204 | | Pitot Tube: Pass -- -- Pass | | | | Mid-Point Leak Check Vol (cf): | | 0.300 | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0:00 | 20:00 | 959.521 | 0.64 | 42 | 46 | 1.61 | 1.80 | 4 | 250 | 250 | 42 | - | 104.9 | 52.75 |
| 2 | 20:00 | 40:00 | 974.280 | 0.70 | 42 | 47 | 1.76 | 1.80 | 4 | 250 | 250 | 43 | - | 98.1 | 55.22 |
| 3 | 40:00 | 60:00 | 988.710 | 0.72 | 44 | 46 | 1.82 | 1.80 | 4 | 250 | 250 | 51 | - | 97.0 | 55.95 |
| 4 | 60:00 | 80:00 | 1003.250 | 0.75 | 45 | 46 | 1.90 | 1.90 | 4 | 250 | 249 | 55 | - | 99.9 | 57.11 |
| 5 | 80:00 | 100:00 | 1018.560 | 0.80 | 47 | 46 | 2.03 | 2.00 | 4 | 251 | 250 | 54 | - | 98.4 | 58.98 |
| 6 | 100:00 | 120:00 | 1034.190 | 0.85 | 48 | 47 | 2.16 | 2.20 | 4 | 251 | 250 | 56 | - | 104.3 | 60.85 |
| 7 | 120:00 | 140:00 | 1051.270 | 0.85 | 49 | 47 | 2.16 | 2.20 | 4 | 250 | 250 | 58 | - | 97.1 | 60.85 |
| 8 | 140:00 | 160:00 | 1067.210 | 0.86 | 50 | 50 | 2.18 | 2.20 | 5 | 250 | 250 | 55 | - | 99.8 | 61.39 |
| 9 | 160:00 | 180:00 | 1083.670 | 0.86 | 52 | 51 | 2.18 | 2.20 | 5 | 250 | 250 | 52 | - | 97.1 | 61.45 |
| 10 | 180:00 | 200:00 | 1099.740 | 0.86 | 53 | 53 | 2.18 | 2.20 | 5 | 250 | 250 | 53 | - | 101.1 | 61.57 |
| 11 | 200:00 | 220:00 | 1116.460 | 0.88 | 55 | 54 | 2.23 | 2.30 | 5 | 250 | 250 | 55 | - | 97.7 | 62.34 |
| 12 | 220:00 | 240:00 | 1132.860 | 0.89 | 56 | 59 | 2.24 | 2.30 | 5 | 251 | 250 | 49 | - | 98.6 | 63.00 |
| B1 | 240:00 | 260:00 | 1149.450 | 0.72 | 57 | 68 | 1.79 | 1.80 | 5 | 247 | 249 | 49 | - | 99.8 | 57.16 |
| 2 | 260:00 | 280:00 | 1164.470 | 0.75 | 62 | 70 | 1.87 | 1.90 | 5 | 249 | 250 | 48 | - | 99.2 | 58.44 |
| 3 | 280:00 | 300:00 | 1179.820 | 0.78 | 66 | 72 | 1.95 | 2.00 | 5 | 251 | 251 | 55 | - | 100.4 | 59.71 |
| 4 | 300:00 | 320:00 | 1195.760 | 0.81 | 69 | 74 | 2.03 | 2.00 | 5 | 250 | 251 | 55 | - | 99.8 | 60.97 |
| 5 | 320:00 | 340:00 | 1211.960 | 0.82 | 73 | 77 | 2.06 | 2.10 | 5 | 249 | 248 | 53 | - | 101.1 | 61.51 |
| 6 | 340:00 | 360:00 | 1228.550 | 0.85 | 75 | 78 | 2.14 | 2.10 | 5 | 251 | 251 | 53 | - | 98.1 | 62.69 |
| 7 | 360:00 | 380:00 | 1244.990 | 0.86 | 77 | 80 | 2.17 | 2.20 | 5 | 249 | 253 | 53 | - | 99.7 | 63.17 |
| 8 | 380:00 | 400:00 | 1261.810 | 0.85 | 80 | 81 | 2.15 | 2.20 | 5 | 249 | 246 | 53 | - | 99.7 | 62.86 |
| 9 | 400:00 | 420:00 | 1278.610 | 0.81 | 82 | 83 | 2.05 | 2.10 | 5 | 249 | 248 | 50 | - | 103.4 | 61.48 |
| 10 | 420:00 | 440:00 | 1295.670 | 0.74 | 83 | 79 | 1.89 | 1.90 | 5 | 250 | 248 | 50 | - | 101.4 | 58.54 |
| 11 | 440:00 | 460:00 | 1311.750 | 0.72 | 81 | 77 | 1.84 | 1.80 | 5 | 252 | 252 | 49 | - | 101.8 | 57.64 |
| 12 | 460:00 | 480:00 | 1327.650 | 0.71 | 80 | 75 | 1.82 | 1.80 | 5 | 249 | 250 | 51 | - | 101.3 | 57.13 |

Final DGM: 1343.359

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qs} |
|---------|----------|-----------|-------------------------|-------------|---------|---------|----|--------------|------|-----------------|
| | | 480.0 min | 383.538 ft ³ | 0.80 in. WC | 61.2 °F | 62.8 °F | 5 | 2.033 in. WC | 99.5 | 0.010 |

| Location: All American Asphalt | | Start Time: 4:40 | | Source: CAU - Inlet | | | | | | | | | |
|--------------------------------|-------|-------------------------------|-----------------|--|-------------------|------------|--|-------------------------|--|--------------------------------|---------|-------|-------|
| Date: 3/18/21 | Run 2 | VALID | End Time: 12:46 | Project No.: 2021-0883 | Parameter: Metals | | | | | | | | |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | | | |
| Moisture: 1.0 % est. | | Meter Box ID: M5-69 | | Est. Tm: 61 °F | | | | Pb: 29.55 in. Hg | | Vlc (ml) | | | |
| Barometric: 29.52 in. Hg | | Y: 0.9850 | | Est. Ts: 63 °F | | | | Pg: -0.80 in. WC | | 85.6 | | | |
| Static Press: -0.80 in. WC | | ΔH @ (in.WC): 1.930 | | Est. ΔP: 0.80 in. WC | | | | O ₂ : 20.9 % | | K-FACTOR | | | |
| Stack Press: 29.46 in. Hg | | Probe ID: PR502-3 | | Est. Dn: 0.197 in. | | | | CO ₂ : 0.0 % | | 2.70 | | | |
| CO ₂ : 0.0 % | | Liner Material: quartz | | Target Rate: 0.75 scfm | | | | | | Check Pt. | Initial | Final | Corr. |
| O ₂ : 20.9 % | | Pitot ID: ADP 1 | | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | | | | Mid 1 (cf) | | | -- |
| N ₂ /CO: 79.1 % | | Pitot Cp/Type: 0.990 standard | | Leak Rate (cfm): 0.000 -- -- -- 0.002 | | | | | | Mid 2 (cf) | | | -- |
| Md: 28.84 lb/lb-mole | | Nozzle ID: .204 glass | | Vacuum (in Hg): 8 -- -- -- 8 | | | | | | Mid 3 (cf) | | | -- |
| Ms: 28.73 lb/lb-mole | | Nozzle Dn (in.): 0.204 | | Pitot Tube: Pass -- -- -- Pass | | | | | | Mid-Point Leak Check Vol (cf): | | | -- |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0:00 | 20:00 | 343.716 | 0.65 | 45 | 47 | 1.76 | 1.80 | 3 | 251 | 250 | 46 | - | 98.3 | 52.81 |
| 2 | 20:00 | 40:00 | 358.210 | 0.67 | 46 | 52 | 1.80 | 1.80 | 3 | 250 | 251 | 46 | - | 100.6 | 53.88 |
| 3 | 40:00 | 60:00 | 373.220 | 0.68 | 47 | 53 | 1.82 | 1.80 | 3 | 251 | 249 | 55 | - | 95.0 | 54.34 |
| 4 | 60:00 | 80:00 | 387.520 | 0.69 | 49 | 53 | 1.86 | 1.90 | 3 | 249 | 250 | 51 | - | 99.8 | 54.73 |
| 5 | 80:00 | 100:00 | 402.710 | 0.71 | 50 | 53 | 1.91 | 1.90 | 3 | 250 | 249 | 47 | - | 96.7 | 55.52 |
| 6 | 100:00 | 120:00 | 417.670 | 0.74 | 50 | 54 | 1.99 | 2.00 | 3 | 249 | 249 | 47 | - | 95.4 | 56.74 |
| 7 | 120:00 | 140:00 | 432.710 | 0.73 | 51 | 54 | 1.97 | 2.00 | 3 | 250 | 250 | 48 | - | 98.4 | 56.35 |
| 8 | 140:00 | 160:00 | 448.150 | 0.71 | 52 | 54 | 1.92 | 1.90 | 3 | 249 | 249 | 48 | - | 102.6 | 55.58 |
| 9 | 160:00 | 180:00 | 464.070 | 0.69 | 52 | 55 | 1.86 | 1.90 | 3 | 251 | 250 | 48 | - | 96.6 | 54.84 |
| 10 | 180:00 | 200:00 | 478.830 | 0.68 | 53 | 56 | 1.83 | 1.80 | 3 | 251 | 252 | 49 | - | 101.7 | 54.49 |
| 11 | 200:00 | 220:00 | 494.270 | 0.69 | 53 | 57 | 1.86 | 1.90 | 3 | 250 | 251 | 49 | - | 101.1 | 54.95 |
| 12 | 220:00 | 240:00 | 509.720 | 0.68 | 54 | 58 | 1.83 | 1.80 | 3 | 252 | 250 | 50 | - | 98.1 | 54.60 |
| B1 | 240:00 | 260:00 | 524.610 | 0.70 | 56 | 59 | 1.89 | 1.90 | 3 | 249 | 250 | 50 | - | 95.9 | 55.45 |
| 2 | 260:00 | 280:00 | 539.430 | 0.73 | 58 | 54 | 1.99 | 2.00 | 3 | 247 | 251 | 48 | - | 104.4 | 56.35 |
| 3 | 280:00 | 300:00 | 556.040 | 0.76 | 59 | 55 | 2.08 | 2.10 | 3 | 253 | 252 | 51 | - | 97.4 | 57.56 |
| 4 | 300:00 | 320:00 | 571.860 | 0.78 | 60 | 57 | 2.13 | 2.10 | 3 | 248 | 251 | 52 | - | 93.2 | 58.42 |
| 5 | 320:00 | 340:00 | 587.190 | 0.77 | 62 | 58 | 2.10 | 2.10 | 3 | 251 | 248 | 53 | - | 99.5 | 58.10 |
| 6 | 340:00 | 360:00 | 603.510 | 0.78 | 64 | 58 | 2.14 | 2.20 | 3 | 251 | 250 | 54 | - | 95.5 | 58.48 |
| 7 | 360:00 | 380:00 | 619.320 | 0.76 | 67 | 62 | 2.08 | 2.10 | 3 | 249 | 249 | 56 | - | 103.7 | 57.95 |
| 8 | 380:00 | 400:00 | 636.310 | 0.72 | 69 | 63 | 1.97 | 2.00 | 3 | 251 | 249 | 56 | - | 95.7 | 56.45 |
| 9 | 400:00 | 420:00 | 651.620 | 0.71 | 72 | 68 | 1.94 | 2.00 | 3 | 251 | 254 | 58 | - | 100.8 | 56.33 |
| 10 | 420:00 | 440:00 | 667.640 | 0.70 | 75 | 74 | 1.90 | 1.90 | 3 | 248 | 247 | 52 | - | 102.0 | 56.25 |
| 11 | 440:00 | 460:00 | 683.740 | 0.70 | 77 | 69 | 1.93 | 1.90 | 3 | 250 | 247 | 51 | - | 98.5 | 55.98 |
| 12 | 460:00 | 480:00 | 699.420 | 0.69 | 79 | 80 | 1.87 | 1.90 | 3 | 251 | 250 | 51 | - | 100.6 | 56.16 |

Final DGM: 715.212

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|----------|-----------|-------------------------|-------------|---------|---------|----|--------------|-------|-----------------|
| | | 480.0 min | 371.496 ft ³ | 0.71 in. WC | 58.3 °F | 58.5 °F | 3 | 1.946 in. WC | 101.9 | 0.011 |

| | | | | | | | | | | | | | | |
|--------------------------------|--|-------|-------------------------------|-----------------|--|--|------------------------|--|-------------------|--|--------------------------------|--|--------------------|--|
| Location: All American Asphalt | | | Start Time: 4:40 | | | Source: CAU - Inlet | | | | | | | | |
| Date: 3/19/21 | | Run 3 | VALID | End Time: 12:49 | | | Project No.: 2021-0883 | | Parameter: Metals | | | | | |
| STACK DATA (EST) | | | EQUIPMENT | | | STACK DATA (EST) | | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | |
| Moisture: 1.0 % est. | | | Meter Box ID: MS-69 | | | Est. Tm: 58 °F | | | | | Pb: 29.59 in. Hg | | Vlc (ml) | |
| Barometric: 29.52 in. Hg | | | Y: 0.9850 | | | Est. Ts: 58 °F | | | | | Pg: -0.80 in. WC | | 68.5 | |
| Static Press: -0.80 in. WC | | | ΔH @ (in.WC): 1.930 | | | Est. ΔP: 0.71 in. WC | | | | | O ₂ : 20.9 % | | K-FACTOR | |
| Stack Press: 29.46 in. Hg | | | Probe ID: PR502-3 | | | Est. Dn: 0.203 in. | | | | | CO ₂ : 0.0 % | | 2.710 | |
| CO ₂ : 0.0 % | | | Liner Material: quartz | | | Target Rate: 0.75 scfm | | | | | Check Pt. Initial Final Corr. | | | |
| O ₂ : 20.9 % | | | Pitot ID: ADP 1 | | | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | | | Mid 1 (cf) | | -- | |
| N ₂ /CO: 79.1 % | | | Pitot Cp/Type: 0.990 standard | | | Leak Rate (cfm): 0.000 -- -- -- 0.002 | | | | | Mid 2 (cf) | | -- | |
| Md: 28.84 lb/lb-mole | | | Nozzle ID: .204 glass | | | Vacuum (in Hg): 9 -- -- -- 8 | | | | | Mid 3 (cf) | | -- | |
| Ms: 28.73 lb/lb-mole | | | Nozzle Dn (in.): 0.204 | | | Pitot Tube: Pass -- -- -- Pass | | | | | Mid-Point Leak Check Vol (cf): | | -- | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0.00 | 20.00 | 715.534 | 0.71 | 45 | 48 | 1.91 | 1.90 | 3 | 249 | 250 | 46 | - | 99.0 | 55.25 |
| 2 | 20.00 | 40.00 | 730.770 | 0.76 | 46 | 54 | 2.03 | 2.00 | 3 | 250 | 249 | 48 | - | 100.0 | 57.50 |
| 3 | 40.00 | 60.00 | 746.620 | 0.74 | 49 | 55 | 1.98 | 2.00 | 3 | 251 | 251 | 58 | - | 101.3 | 56.79 |
| 4 | 60.00 | 80.00 | 762.550 | 0.72 | 51 | 55 | 1.94 | 2.00 | 3 | 250 | 251 | 58 | - | 103.8 | 56.02 |
| 5 | 80.00 | 100.00 | 778.710 | 0.68 | 52 | 55 | 1.83 | 1.80 | 3 | 251 | 251 | 52 | - | 95.2 | 54.44 |
| 6 | 100.00 | 120.00 | 793.150 | 0.65 | 53 | 55 | 1.76 | 1.80 | 3 | 251 | 250 | 50 | - | 106.1 | 53.23 |
| 7 | 120.00 | 140.00 | 808.910 | 0.68 | 53 | 56 | 1.83 | 1.80 | 3 | 250 | 251 | 51 | - | 104.8 | 54.49 |
| 8 | 140.00 | 160.00 | 824.830 | 0.66 | 53 | 56 | 1.78 | 1.80 | 3 | 250 | 250 | 50 | - | 99.5 | 53.69 |
| 9 | 160.00 | 180.00 | 839.720 | 0.70 | 54 | 56 | 1.89 | 1.90 | 3 | 250 | 250 | 50 | - | 97.3 | 55.29 |
| 10 | 180.00 | 200.00 | 854.740 | 0.72 | 54 | 56 | 1.94 | 1.90 | 3 | 250 | 248 | 50 | - | 96.9 | 56.07 |
| 11 | 200.00 | 220.00 | 869.910 | 0.69 | 54 | 58 | 1.86 | 1.90 | 3 | 249 | 248 | 52 | - | 96.8 | 55.00 |
| 12 | 220.00 | 240.00 | 884.710 | 0.71 | 56 | 60 | 1.91 | 1.90 | 3 | 251 | 247 | 53 | - | 95.4 | 55.90 |
| B1 | 240.00 | 260.00 | 899.530 | 0.76 | 57 | 61 | 2.04 | 2.10 | 3 | 250 | 251 | 53 | - | 94.0 | 57.89 |
| 2 | 260.00 | 280.00 | 914.660 | 0.78 | 59 | 56 | 2.13 | 2.10 | 3 | 249 | 251 | 54 | - | 92.4 | 58.36 |
| 3 | 280.00 | 300.00 | 929.850 | 0.77 | 62 | 65 | 2.07 | 2.10 | 3 | 250 | 251 | 58 | - | 96.1 | 58.49 |
| 4 | 300.00 | 320.00 | 945.510 | 0.76 | 64 | 66 | 2.05 | 2.10 | 3 | 250 | 249 | 59 | - | 101.9 | 58.17 |
| 5 | 320.00 | 340.00 | 962.050 | 0.75 | 65 | 68 | 2.02 | 2.00 | 3 | 250 | 251 | 51 | - | 103.6 | 57.89 |
| 6 | 340.00 | 360.00 | 978.760 | 0.71 | 68 | 73 | 1.91 | 1.90 | 3 | 252 | 251 | 51 | - | 101.6 | 56.59 |
| 7 | 360.00 | 380.00 | 994.720 | 0.68 | 71 | 76 | 1.83 | 1.80 | 3 | 251 | 250 | 51 | - | 105.0 | 55.54 |
| 8 | 380.00 | 400.00 | 1010.910 | 0.65 | 74 | 79 | 1.75 | 1.80 | 3 | 251 | 250 | 53 | - | 104.6 | 54.45 |
| 9 | 400.00 | 420.00 | 1026.720 | 0.64 | 77 | 79 | 1.73 | 1.70 | 3 | 251 | 249 | 56 | - | 97.5 | 54.03 |
| 10 | 420.00 | 440.00 | 1041.430 | 0.66 | 80 | 82 | 1.78 | 1.80 | 3 | 251 | 251 | 54 | - | 93.3 | 55.02 |
| 11 | 440.00 | 460.00 | 1055.770 | 0.68 | 83 | 83 | 1.84 | 1.90 | 3 | 251 | 251 | 55 | - | 103.3 | 55.90 |
| 12 | 460.00 | 480.00 | 1071.950 | 0.66 | 85 | 86 | 1.79 | 1.80 | 3 | 249 | 249 | 56 | - | ##### | 55.23 |

Final DGM: --

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|------|-------|-----------------|
| | 480.0 min | 356.416 ft ³ | 0.71 in. WC | 61.0 °F | 64.1 °F | 3 | 1.908 in. WC | 98.3 | 0.009 | -1.1 |

Location All American Asphalt
Source CAU - Outlet
Project No. 2021-0883
Parameter(s): Metals

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|--|---------|--------------|--------------|--------------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:45 | 12:46 | 12:49 | -- |
| Input Data | | | | | |
| Volumetric Flow Rate, dscfm | (Qs) | 689 | 682 | 688 | 686 |
| Standard Meter Volume, ft ³ | (Vmstd) | 381.166 | 393.520 | 394.218 | 389.635 |
| Lab Data | | | | | |
| Aluminum Mass, ug | M | 110 | 110 | 120 | 113.3 |
| Antimony Mass, ug | M | <u>0.68</u> | <u>0.68</u> | <u>0.68</u> | 0.7 |
| Arsenic Mass, ug | M | <u>0.27</u> | <u>0.27</u> | <u>0.27</u> | 0.3 |
| Barium Mass, ug | M | 8.4 | 6.7 | 8.2 | 7.8 |
| Beryllium Mass, ug | M | <u>2.3</u> | <u>2.3</u> | <u>2.3</u> | 2.3 |
| Cadmium Mass, ug | M | 0.30 | 0.20 | 0.15 | 0.2 |
| Chromium Mass, ug | M | 4.4 | 1.9 | 2.4 | 2.9 |
| Cobalt Mass, ug | M | 0.32 | 0.16 | 0.34 | 0.3 |
| Copper Mass, ug | M | 2.6 | 3.5 | 9.6 | 5.2 |
| Lead Mass, ug | M | 0.61 | 0.55 | 1.3 | 0.8 |
| Manganese Mass, ug | M | 16 | 21 | 15 | 17.3 |
| Nickel Mass, ug | M | 3.6 | 2.6 | 3.6 | 3.3 |
| Phosphorus Mass, ug | M | 24 | 26 | 32 | 27.3 |
| Selenium Mass, ug | M | <u>0.27</u> | <u>0.27</u> | <u>0.27</u> | 0.3 |
| Silver Mass, ug | M | 0.16 | 0.18 | 0.073 | 0.1 |
| Thallium Mass, ug | M | <u>0.054</u> | <u>0.054</u> | <u>0.054</u> | 0.1 |
| Vanadium Mass, ug | M | <u>0.18</u> | <u>0.18</u> | <u>0.18</u> | 0.2 |
| Zinc Mass, ug | M | 7.000 | 10 | 15 | 10.7 |
| Mercury Mass, ug | M | <u>1.9</u> | <u>0.71</u> | <u>1.0</u> | 1.2 |
| Emissions Calculations | | | | | |
| Aluminum Concentration, ug/dscm | C | 10.2 | 9.9 | 10.7 | 10.3 |
| Aluminum Emission Rate, lb/hr | ER | 2.6E-05 | 2.5E-05 | 2.8E-05 | 2.6E-05 |
| Antimony Concentration, ug/dscm | C | 0.063 | 0.061 | 0.061 | 0.062 |
| Antimony Emission Rate, lb/hr | ER | 1.6E-07 | 1.6E-07 | 1.6E-07 | 1.6E-07 |
| Arsenic Concentration, ug/dscm | C | 0.025 | 0.024 | 0.024 | 0.024 |
| Arsenic Emission Rate, lb/hr | ER | 6.5E-08 | 6.2E-08 | 6.2E-08 | 6.3E-08 |
| Barium Concentration, ug/dscm | C | 0.78 | 0.60 | 0.73 | 0.70 |
| Barium Emission Rate, lb/hr | ER | 2.0E-06 | 1.5E-06 | 1.9E-06 | 1.8E-06 |
| Beryllium Concentration, ug/dscm | C | 0.21 | 0.21 | 0.21 | 0.21 |
| Beryllium Emission Rate, lb/hr | ER | 5.5E-07 | 5.3E-07 | 5.3E-07 | 5.4E-07 |
| Cadmium Concentration, ug/dscm | C | 0.028 | 0.018 | 0.013 | 0.020 |
| Cadmium Emission Rate, lb/hr | ER | 7.2E-08 | 4.6E-08 | 3.5E-08 | 5.1E-08 |
| Chromium Concentration, ug/dscm | C | 0.41 | 0.17 | 0.21 | 0.26 |
| Chromium Emission Rate, lb/hr | ER | 1.1E-06 | 4.4E-07 | 5.5E-07 | 6.8E-07 |
| Cobalt Concentration, ug/dscm | C | 0.030 | 0.014 | 0.030 | 0.025 |
| Cobalt Emission Rate, lb/hr | ER | 7.7E-08 | 3.7E-08 | 7.8E-08 | 6.4E-08 |
| Copper Concentration, ug/dscm | C | 0.24 | 0.31 | 0.86 | 0.47 |
| Copper Emission Rate, lb/hr | ER | 6.2E-07 | 8.0E-07 | 2.2E-06 | 1.2E-06 |
| Lead Concentration, ug/dscm | C | 0.057 | 0.049 | 0.12 | 0.074 |
| Lead Emission Rate, lb/hr | ER | 1.5E-07 | 1.3E-07 | 3.0E-07 | 1.9E-07 |
| Manganese Concentration, ug/dscm | C | 1.5 | 1.9 | 1.3 | 1.6 |
| Manganese Emission Rate, lb/hr | ER | 3.8E-06 | 4.8E-06 | 3.5E-06 | 4.0E-06 |
| Nickel Concentration, ug/dscm | C | 0.33 | 0.23 | 0.32 | 0.30 |
| Nickel Emission Rate, lb/hr | ER | 8.6E-07 | 6.0E-07 | 8.3E-07 | 7.6E-07 |
| Phosphorus Concentration, ug/dscm | C | 2.2 | 2.3 | 2.9 | 2.5 |
| Phosphorus Emission Rate, lb/hr | ER | 5.7E-06 | 6.0E-06 | 7.4E-06 | 6.4E-06 |
| Selenium Concentration, ug/dscm | C | 0.025 | 0.024 | 0.024 | 0.024 |
| Selenium Emission Rate, lb/hr | ER | 6.5E-08 | 6.2E-08 | 6.2E-08 | 6.3E-08 |
| Silver Concentration, ug/dscm | C | 0.015 | 0.016 | 0.0065 | 0.013 |
| Silver Emission Rate, lb/hr | ER | 3.8E-08 | 4.1E-08 | 1.7E-08 | 3.2E-08 |
| Thallium Concentration, ug/dscm | C | 0.0050 | 0.0048 | 0.0048 | 0.0049 |
| Thallium Emission Rate, lb/hr | ER | 1.3E-08 | 1.2E-08 | 1.2E-08 | 1.3E-08 |
| Vanadium Concentration, ug/dscm | C | 0.017 | 0.016 | 0.016 | 0.016 |
| Vanadium Emission Rate, lb/hr | ER | 4.3E-08 | 4.1E-08 | 4.2E-08 | 4.2E-08 |
| Zinc Concentration, ug/dscm | C | 0.65 | 0.90 | 1.3 | 0.96 |
| Zinc Emission Rate, lb/hr | ER | 1.7E-06 | 2.3E-06 | 3.5E-06 | 2.5E-06 |
| Mercury Concentration, ug/dscm | C | 0.18 | 0.063 | 0.094 | 0.11 |
| Mercury Emission Rate, lb/hr | ER | 4.6E-07 | 1.6E-07 | 2.4E-07 | 2.9E-07 |

Underlined values are reported at the method reporting limit

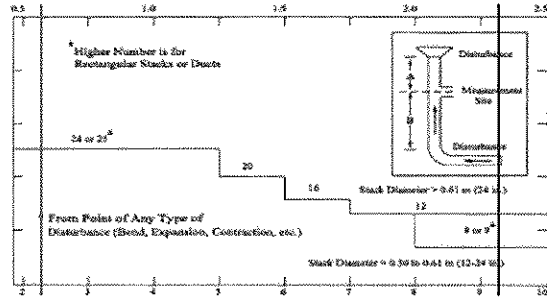
Location **All American Asphalt**
 Source **CAU - Outlet**
 Project No. **2021-0883**
 Parameter **Metals**

| Run Number | | Run 1 | Run 2 | Run 3 | Average |
|---|--------------------|---------|---------|---------|---------|
| Date | | 3/17/21 | 3/18/21 | 3/19/21 | -- |
| Start Time | | 5:52 | 4:40 | 4:40 | -- |
| Stop Time | | 14:45 | 12:46 | 12:49 | -- |
| Run Time, min | | 480.0 | 480.0 | 480.0 | 480.0 |
| VELOCITY HEAD, in. WC | | | | | |
| Point 1 | | 1.30 | 1.20 | 0.98 | 1.16 |
| Point 2 | | 1.30 | 1.10 | 1.20 | 1.20 |
| Point 3 | | 1.20 | 1.00 | 1.20 | 1.13 |
| Point 4 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 5 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 6 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 7 | | 1.20 | 1.10 | 1.20 | 1.17 |
| Point 8 | | 1.20 | 1.10 | 1.10 | 1.13 |
| Point 9 | | 1.20 | 1.10 | 1.10 | 1.13 |
| Point 10 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 11 | | 1.00 | 1.10 | 1.00 | 1.03 |
| Point 12 | | 1.00 | 0.90 | 0.95 | 0.95 |
| Point 13 | | 0.82 | 1.10 | 1.00 | 0.97 |
| Point 14 | | 1.10 | 1.10 | 1.10 | 1.10 |
| Point 15 | | 1.20 | 1.20 | 1.20 | 1.20 |
| Point 16 | | 0.88 | 1.20 | 1.20 | 1.09 |
| Point 17 | | 0.95 | 1.20 | 1.20 | 1.12 |
| Point 18 | | 1.00 | 1.20 | 1.20 | 1.13 |
| Point 19 | | 1.10 | 1.10 | 1.20 | 1.13 |
| Point 20 | | 1.10 | 1.10 | 1.10 | 1.10 |
| Point 21 | | 1.10 | 1.00 | 1.00 | 1.03 |
| Point 22 | | 1.10 | 0.88 | 1.00 | 0.99 |
| Point 23 | | 0.92 | 0.77 | 0.88 | 0.86 |
| Point 24 | | 1.00 | 0.83 | 0.85 | 0.89 |
| CALCULATED DATA | | | | | |
| Square Root of ΔP , (in. WC) ^{1/2} | (ΔP) | 1.048 | 1.041 | 1.049 | 1.046 |
| Pitot Tube Coefficient | (Cp) | 0.990 | 0.990 | 0.990 | 0.990 |
| Barometric Pressure, in. Hg | (Pb) | 29.52 | 29.55 | 29.59 | 29.55 |
| Static Pressure, in. WC | (Pg) | 0.86 | 0.81 | 0.79 | 0.82 |
| Stack Pressure, in. Hg | (Ps) | 29.58 | 29.61 | 29.65 | 29.61 |
| Stack Cross-sectional Area, ft ² | (As) | 0.17 | 0.17 | 0.17 | 0.17 |
| Temperature, °F | (Ts) | 83.5 | 86.5 | 88.5 | 86.2 |
| Temperature, °R | (Ts) | 543.5 | 546.5 | 548.5 | 546.2 |
| Moisture Fraction Measured | (BWSmsd) | 0.009 | 0.009 | 0.007 | 0.008 |
| Moisture Fraction @ Saturation | (BWSsat) | 0.039 | 0.043 | 0.046 | 0.043 |
| Moisture Fraction | (BWS) | 0.009 | 0.009 | 0.007 | 0.008 |
| O ₂ Concentration, % | (O ₂) | 20.9 | 20.9 | 20.9 | 20.9 |
| CO ₂ Concentration, % | (CO ₂) | 0.0 | 0.0 | 0.0 | 0.0 |
| Molecular Weight, lb/lb-mole (dry) | (Md) | 28.84 | 28.84 | 28.84 | 28.84 |
| Molecular Weight, lb/lb-mole (wet) | (Ms) | 28.74 | 28.74 | 28.76 | 28.75 |
| Velocity, ft/sec | (Vs) | 70.9 | 70.6 | 71.2 | 70.9 |
| VOLUMETRIC FLOW RATE | | | | | |
| At Stack Conditions, acfm | (Qa) | 735 | 731 | 737 | 734 |
| At Standard Conditions, dscfm | (Qs) | 689 | 682 | 688 | 686 |

Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Date: 03/16/21

Stack Parameters - Sampling Location

Duct Orientation: Vertical
 Duct Design: Circular
 Distance from Far Wall to Outside of Port: 5.75 in
 Nipple Length: 0.13 in
 Depth of Duct: 5.63 in
 Cross Sectional Area of Duct: 0.17 ft²
 No. of Test Ports: 2
 Distance A: 1.1 ft
 Distance A Duct Diameters: 2.3 (must be > 0.5)
 Distance B: 1.1 ft
 Distance B Duct Diameters: 2.3 (must be > 2)
 Minimum Number of Traverse Points: 24
 Actual Number of Traverse Points: 24
 Number of Readings per Point: 1
 Measurer (Initial and Date): GWH 3/16/21
 Reviewer (Initial and Date): GWH 3/16/21



CIRCULAR DUCT

LOCATION OF TRAVERSE POINTS

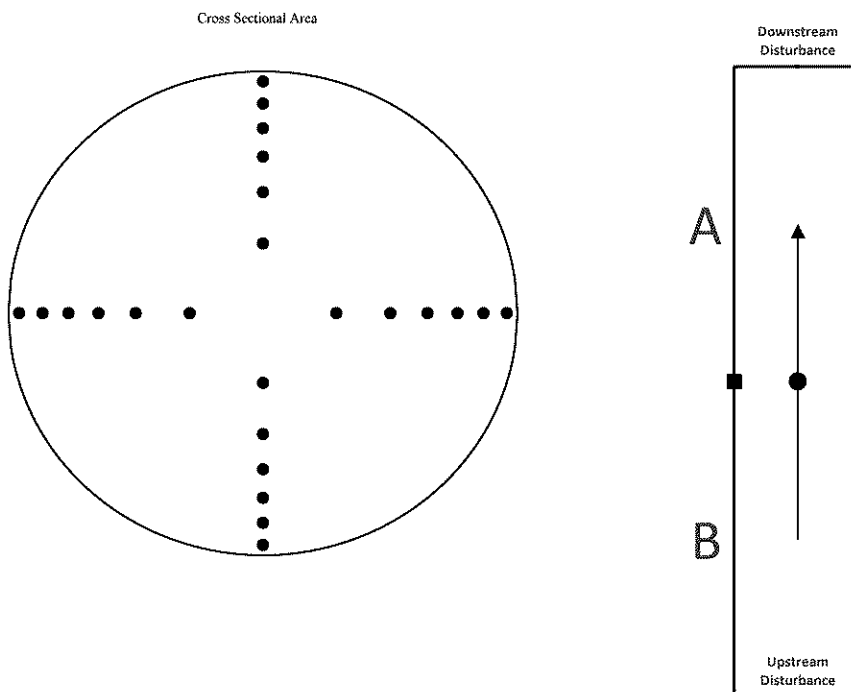
Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.63 |
| 2 | 6.7 | 0.50 | 0.63 |
| 3 | 11.8 | 0.66 | 0.79 |
| 4 | 17.7 | 1.00 | 1.12 |
| 5 | 25.0 | 1.41 | 1.53 |
| 6 | 35.6 | 2.00 | 2.13 |
| 7 | 64.4 | 3.62 | 3.75 |
| 8 | 75.0 | 4.22 | 4.34 |
| 9 | 82.3 | 4.63 | 4.75 |
| 10 | 88.2 | 4.96 | 5.09 |
| 11 | 93.3 | 5.13 | 5.25 |
| 12 | 97.9 | 5.13 | 5.25 |

*Percent of stack diameter from inside wall to traverse point.

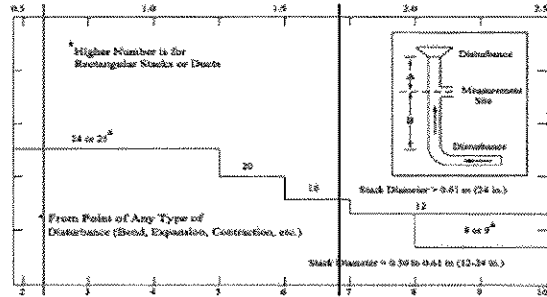
Stack Diagram
 A = 1.0833333
 B = 1.0833333
 Depth of Duct = 5.625 in.



Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Date: 03/16/21

Stack Parameters - Pitot Location

Duct Orientation: Vertical
 Duct Design: Circular
 Distance from Far Wall to Outside of Port: 5.75 in
 Nipple Length: 0.13 in
 Depth of Duct: 5.63 in
 Cross Sectional Area of Duct: 0.17 ft²
 No. of Test Ports: 2
 Distance A: 0.8 ft
 Distance A Duct Diameters: 1.7 (must be > 0.5)
 Distance B: 1.1 ft
 Distance B Duct Diameters: 2.3 (must be > 2)
 Minimum Number of Traverse Points: 24
 Actual Number of Traverse Points: 24
 Number of Readings per Point: 1
 Measurer (Initial and Date): GWH 3/16/21
 Reviewer (Initial and Date): GWH 3/16/21



CIRCULAR DUCT

LOCATION OF TRAVERSE POINTS

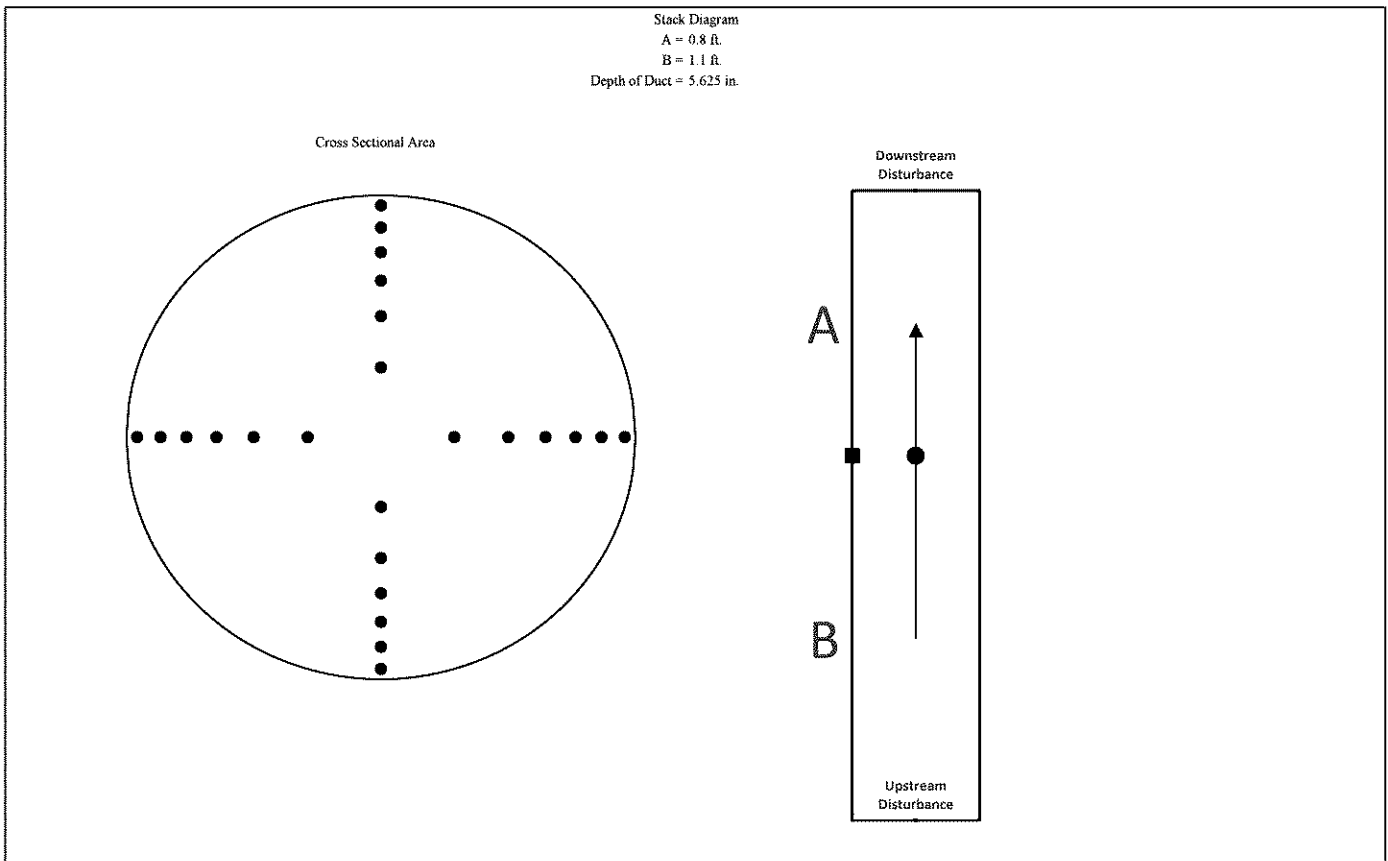
Number of traverse points on a diameter

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|----|------|----|------|----|------|----|------|----|------|----|------|
| 1 | 14.6 | -- | 6.7 | -- | 4.4 | -- | 3.2 | -- | 2.6 | -- | 2.1 |
| 2 | 85.4 | -- | 25.0 | -- | 14.6 | -- | 10.5 | -- | 8.2 | -- | 6.7 |
| 3 | -- | -- | 75.0 | -- | 29.6 | -- | 19.4 | -- | 14.6 | -- | 11.8 |
| 4 | -- | -- | 93.3 | -- | 70.4 | -- | 52.3 | -- | 22.6 | -- | 17.7 |
| 5 | -- | -- | -- | -- | 85.4 | -- | 67.7 | -- | 34.2 | -- | 25.0 |
| 6 | -- | -- | -- | -- | 95.6 | -- | 80.6 | -- | 65.8 | -- | 35.6 |
| 7 | -- | -- | -- | -- | -- | -- | 89.5 | -- | 77.4 | -- | 64.4 |
| 8 | -- | -- | -- | -- | -- | -- | 96.8 | -- | 85.4 | -- | 75.0 |
| 9 | -- | -- | -- | -- | -- | -- | -- | -- | 91.8 | -- | 82.3 |
| 10 | -- | -- | -- | -- | -- | -- | -- | -- | 97.4 | -- | 88.2 |
| 11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 93.3 |
| 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 97.9 |

| Traverse Point | % of Diameter | Distance from inside wall | Distance from outside of port |
|----------------|---------------|---------------------------|-------------------------------|
| 1 | 2.1 | 0.50 | 0.63 |
| 2 | 6.7 | 0.50 | 0.63 |
| 3 | 11.8 | 0.66 | 0.79 |
| 4 | 17.7 | 1.00 | 1.12 |
| 5 | 25.0 | 1.41 | 1.53 |
| 6 | 35.6 | 2.00 | 2.13 |
| 7 | 64.4 | 3.62 | 3.75 |
| 8 | 75.0 | 4.22 | 4.34 |
| 9 | 82.3 | 4.63 | 4.75 |
| 10 | 88.2 | 4.96 | 5.09 |
| 11 | 93.3 | 5.13 | 5.25 |
| 12 | 97.9 | 5.13 | 5.25 |

**Percent of stack diameter from inside wall to traverse point.*

Stack Diagram
 A = 0.8 ft.
 B = 1.1 ft.
 Depth of Duct = 5.625 in.



Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Date 03/16/21

| Sample Point | Angle (AP=0) |
|----------------|--------------|
| 1 | 3 |
| 2 | 3 |
| 3 | 2 |
| 4 | 2 |
| 5 | 0 |
| 6 | 0 |
| 7 | 2 |
| 8 | 3 |
| 9 | 3 |
| 10 | 0 |
| 11 | 0 |
| 12 | 5 |
| 13 | 3 |
| 14 | 3 |
| 15 | 2 |
| 16 | 0 |
| 17 | 0 |
| 18 | 0 |
| 19 | 0 |
| 20 | 0 |
| 21 | 0 |
| 22 | 2 |
| 23 | 5 |
| 24 | 2 |
| Average | 2 |

Location All American Asphalt

Source CAU - Outlet

Project No. 2021-0883

Parameter Metals

Analysis Gravimetric

| Run 1 | | Date: 3/17/21 | | | | | |
|-----------------|-----------|---------------|-------|-------|-------|--------|--------|
| Impinger No. | 1 | 2 | 3 | 4 | 5 | 6 | Total |
| Contents | HNO3/H2O2 | HNO3/H2O2 | Empty | KMnO4 | KMnO4 | Silica | -- |
| Initial Mass, g | 744.1 | 781.0 | 624.6 | 729.7 | 740.6 | 1022.9 | 4642.9 |
| Final Mass, g | 750.4 | 786.1 | 628.1 | 725.6 | 738.2 | 1087.7 | 4716.1 |
| Gain | 6.3 | 5.1 | 3.5 | -4.1 | -2.4 | 64.8 | 73.2 |
| Run 2 | | Date: 3/18/21 | | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | 6 | Total |
| Contents | HNO3/H2O2 | HNO3/H2O2 | Empty | KMnO4 | KMnO4 | Silica | -- |
| Initial Mass, g | 745.4 | 792.6 | 628.1 | 753.9 | 749.3 | 1032.9 | 4702.2 |
| Final Mass, g | 757.1 | 797.8 | 631.4 | 749.4 | 749.2 | 1090.5 | 4775.4 |
| Gain | 11.7 | 5.2 | 3.3 | -4.5 | -0.1 | 57.6 | 73.2 |
| Run 3 | | Date: 3/19/21 | | | | | |
| Impinger No. | 1 | 2 | 3 | 4 | 5 | 6 | Total |
| Contents | HNO3/H2O2 | HNO3/H2O2 | Empty | KMnO4 | KMnO4 | Silica | -- |
| Initial Mass, g | 748.1 | 784.3 | 630.5 | 745.2 | 753.1 | 989.7 | 4650.9 |
| Final Mass, g | 740.2 | 788.8 | 633.8 | 738.8 | 749.4 | 1056.0 | 4707.0 |
| Gain | -7.9 | 4.5 | 3.3 | -6.4 | -3.7 | 66.3 | 56.1 |

| | | | | | |
|--------------------------------------|-------------------------------|--|-----------------|-------------------------|----------------------------------|
| Location: All American Asphalt | | Start Time: 5:52 | | Source: CAU - Outlet | |
| Date: 3/17/21 | Run 1 | VALID | End Time: 14:45 | Project No.: 2021-0883 | Parameter: Metals |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | |
| Moisture: 5.0 % est. | Meter Box ID: M5-26 | Est. Tm: 50 °F | FILTER NO. | | STACK DATA (FINAL) |
| Barometric: 30.08 in. Hg | Y: 0.9995 | Est. Ts: 65 °F | | | Pb: 29.52 in. Hg |
| Static Press: 1.00 in. WC | AH @ (in. WC): 1.726 | Est. ΔP: 1.25 in. WC | | | Pg: 0.86 in. WC |
| Stack Press: 30.15 in. Hg | Probe ID: P702-3-2 | Est. Dn: 0.182 in. | | | O ₂ : 20.9 % |
| CO ₂ : 0.0 % | Liner Material: glass | Target Rate: 0.75 scfm | | | CO ₂ : 0.0 % |
| O ₂ : 20.9 % | Pitot ID: PS-2 | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | Check Pt. Initial Final Corr. |
| N ₂ /CO: 79.1 % | Pitot Cp/Type: 0.990 standard | Leak Rate (cfm): 0.000 0.000 -- -- 0.000 | | | Mid 1 (cf) 701.068 702.141 1.073 |
| Md: 28.84 lb/lb-mole | Nozzle ID: G-196-1 glass | Vacuum (in. Hg): 15 6 -- -- 5 | | | Mid 2 (cf) -- |
| Ms: 28.29 lb/lb-mole | Nozzle Dn (in.): 0.196 | Pitot Tube: Pass -- -- -- Pass | | | Mid 3 (cf) -- |
| Mid-Point Leak Check Vol (cf): 1.073 | | | | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in. WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|------------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | | | | | | | | | | | |
| A1 | 0:00 | 20:00 | 503.222 | 1.30 | 45 | 55 | 2.47 | 2.50 | 3 | 248 | 254 | 41 | - | 94.6 | 74.97 |
| 2 | 20:00 | 40:00 | 520.280 | 1.30 | 48 | 55 | 2.48 | 2.50 | 3 | 250 | 251 | 45 | - | 94.4 | 74.97 |
| 3 | 40:00 | 60:00 | 537.400 | 1.20 | 51 | 57 | 2.30 | 2.30 | 3 | 250 | 251 | 46 | - | 97.0 | 72.17 |
| 4 | 60:00 | 80:00 | 554.390 | 1.20 | 52 | 60 | 2.29 | 2.30 | 3 | 250 | 252 | 48 | - | 97.9 | 72.38 |
| 5 | 80:00 | 100:00 | 571.520 | 1.20 | 53 | 63 | 2.28 | 2.30 | 3 | 250 | 250 | 50 | - | 95.3 | 72.59 |
| 6 | 100:00 | 120:00 | 588.180 | 1.20 | 53 | 66 | 2.27 | 2.30 | 3 | 250 | 250 | 49 | - | 94.9 | 72.80 |
| 7 | 120:00 | 140:00 | 604.720 | 1.20 | 54 | 68 | 2.26 | 2.30 | 3 | 250 | 244 | 51 | - | 94.4 | 72.94 |
| 8 | 140:00 | 160:00 | 621.170 | 1.20 | 56 | 72 | 2.26 | 2.30 | 3 | 250 | 250 | 52 | - | 97.8 | 73.21 |
| 9 | 160:00 | 180:00 | 638.220 | 1.20 | 57 | 75 | 2.25 | 2.30 | 3 | 250 | 246 | 56 | - | 92.0 | 73.42 |
| 10 | 180:00 | 200:00 | 654.240 | 1.20 | 58 | 78 | 2.24 | 2.20 | 3 | 250 | 251 | 59 | - | 93.5 | 73.62 |
| 11 | 200:00 | 220:00 | 670.520 | 1.00 | 60 | 82 | 1.86 | 1.90 | 3 | 251 | 249 | 57 | - | 96.6 | 67.46 |
| 12 | 220:00 | 240:00 | 685.880 | 1.00 | 61 | 85 | 1.85 | 1.90 | 3 | 250 | 246 | 57 | - | 95.6 | 67.64 |
| B1 | 240:00 | 260:00 | 701.068 | 0.82 | 70 | 92 | 1.53 | 1.50 | 2 | 249 | 251 | 62 | - | 105.1 | 61.65 |
| 2 | 260:00 | 280:00 | 716.370 | 1.10 | 76 | 95 | 2.06 | 2.10 | 2 | 249 | 238 | 60 | - | 97.8 | 71.59 |
| 3 | 280:00 | 300:00 | 732.970 | 1.20 | 78 | 97 | 2.25 | 2.30 | 2 | 250 | 238 | 58 | - | 96.6 | 74.91 |
| 4 | 300:00 | 320:00 | 750.120 | 0.88 | 78 | 100 | 1.64 | 1.60 | 2 | 250 | 244 | 56 | - | 97.2 | 64.32 |
| 5 | 320:00 | 340:00 | 764.890 | 0.95 | 78 | 100 | 1.77 | 1.80 | 2 | 250 | 246 | 57 | - | 98.2 | 66.83 |
| 6 | 340:00 | 360:00 | 780.390 | 1.00 | 80 | 102 | 1.86 | 1.90 | 2 | 250 | 240 | 58 | - | 96.3 | 68.69 |
| 7 | 360:00 | 380:00 | 796.010 | 1.10 | 82 | 101 | 2.06 | 2.10 | 2 | 250 | 255 | 51 | - | 97.3 | 71.98 |
| 8 | 380:00 | 400:00 | 812.630 | 1.10 | 83 | 101 | 2.06 | 2.10 | 2 | 250 | 254 | 52 | - | 98.0 | 71.98 |
| 9 | 400:00 | 420:00 | 829.400 | 1.10 | 84 | 101 | 2.07 | 2.10 | 2 | 249 | 259 | 52 | - | 97.9 | 71.98 |
| 10 | 420:00 | 440:00 | 846.180 | 1.10 | 82 | 102 | 2.06 | 2.10 | 2 | 250 | 258 | 50 | - | 98.1 | 72.04 |
| 11 | 440:00 | 460:00 | 862.920 | 0.92 | 81 | 98 | 1.73 | 1.70 | 2 | 249 | 245 | 51 | - | 96.9 | 65.65 |
| 12 | 460:00 | 480:00 | 878.080 | 1.00 | 80 | 98 | 1.88 | 1.90 | 2 | 251 | 258 | 60 | - | 96.2 | 68.45 |
| Final DGM: | | | 893.742 | | | | | | | | | | | | |

| RESULTS | Run Time | | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | Y _{qs} | | | | |
|---------|----------|-----|---------|-----------------|------|--------|---------|----|------|-----|-----------------|-------|--------|------|-------|
| | 480.0 | min | 389.447 | ft ³ | 1.10 | in. WC | 66.7 | °F | 83.5 | °F | 3 | 2.096 | in. WC | 95.0 | 0.009 |

| | | | | | | | | | |
|--------------------------------|------------------|-------------------------------|------------------|--|-------------|------------------------|-----------------------------------|-------------------|--------------------|
| Location: All American Asphalt | | | Start Time: 4:40 | | | Source: CAU - Outlet | | | |
| Date: 3/18/21 | | Run 2 | VALID | End Time: 12:46 | | Project No.: 2021-0883 | | Parameter: Metals | |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | STACK DATA (FINAL) | | MOIST. DATA |
| Moisture: | 1.0 % est. | Meter Box ID: M5-26 | | Est. Tm: | 67 °F | | Pb: | 29.55 in. Hg | Vlc (ml) |
| Barometric: | 30.08 in. Hg | Y: 0.9995 | | Est. Ts: | 83 °F | | Pg: | 0.81 in. WC | 73.2 |
| Static Press: | 1.00 in. WC | ΔH @ (in.WC): 1.726 | | Est. AP: | 1.10 in. WC | | O ₂ : | 20.9 % | K-FACTOR |
| Stack Press: | 30.15 in. Hg | Probe ID: P702-3-2 | | Est. Dn: | 0.183 in. | | CO ₂ : | 0.0 % | 2.01 |
| CO ₂ : | 0.0 % | Liner Material: glass | | Target Rate: | 0.75 scfm | | Check Pt. Initial Final Corr. | | |
| O ₂ : | 20.9 % | Pitot ID: PS-2 | | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | Mid 1 (cf) | -- | |
| N ₂ /CO: | 79.1 % | Pitot Cp/Type: 0.990 standard | | Leak Rate (cfm): 0.002 -- -- -- 0.000 | | | Mid 2 (cf) | -- | |
| Md: | 28.84 lb/lb-mole | Nozzle ID: G-196-1 glass | | Vacuum (in Hg): 15 -- -- -- 5 | | | Mid 3 (cf) | -- | |
| Ms: | 28.73 lb/lb-mole | Nozzle Dn (in.): 0.196 | | Pitot Tube: Pass -- -- -- Pass | | | Mid-Point Leak Check Vol (cf): -- | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0:00 | 20:00 | 894.933 | 1.20 | 51 | 75 | 2.38 | 2.40 | 3 | 248 | 250 | 41 | - | 95.6 | 72.86 |
| 2 | 20:00 | 40:00 | 911.950 | 1.10 | 48 | 80 | 2.15 | 2.20 | 3 | 250 | 251 | 38 | - | 97.6 | 70.08 |
| 3 | 40:00 | 60:00 | 928.420 | 1.00 | 48 | 78 | 1.96 | 2.00 | 3 | 250 | 250 | 37 | - | 95.8 | 66.70 |
| 4 | 60:00 | 80:00 | 943.870 | 1.20 | 48 | 76 | 2.36 | 2.40 | 3 | 250 | 252 | 35 | - | 97.2 | 72.93 |
| 5 | 80:00 | 100:00 | 961.050 | 1.20 | 48 | 76 | 2.36 | 2.40 | 3 | 242 | 251 | 46 | - | 98.2 | 72.93 |
| 6 | 100:00 | 120:00 | 978.410 | 1.20 | 47 | 75 | 2.36 | 2.40 | 3 | 250 | 250 | 37 | - | 98.3 | 72.86 |
| 7 | 120:00 | 140:00 | 995.770 | 1.10 | 49 | 78 | 2.16 | 2.20 | 3 | 250 | 252 | 37 | - | 98.6 | 69.96 |
| 8 | 140:00 | 160:00 | 1012.470 | 1.10 | 51 | 77 | 2.17 | 2.20 | 3 | 250 | 249 | 39 | - | 98.1 | 69.89 |
| 9 | 160:00 | 180:00 | 1029.160 | 1.10 | 51 | 77 | 2.17 | 2.20 | 3 | 250 | 247 | 43 | - | 98.2 | 69.89 |
| 10 | 180:00 | 200:00 | 1045.870 | 1.20 | 53 | 79 | 2.37 | 2.40 | 3 | 249 | 246 | 43 | - | 102.7 | 73.13 |
| 11 | 200:00 | 220:00 | 1064.150 | 1.10 | 56 | 80 | 2.18 | 2.20 | 3 | 251 | 251 | 45 | - | 92.5 | 70.08 |
| 12 | 220:00 | 240:00 | 1080.000 | 0.90 | 56 | 83 | 1.78 | 1.80 | 3 | 250 | 249 | 46 | - | 101.6 | 63.57 |
| B1 | 240:00 | 260:00 | 1095.717 | 1.10 | 56 | 86 | 2.16 | 2.20 | 3 | 247 | 250 | 48 | - | 94.7 | 70.47 |
| 2 | 260:00 | 280:00 | 1111.850 | 1.10 | 58 | 88 | 2.16 | 2.20 | 3 | 249 | 253 | 47 | - | 93.0 | 70.60 |
| 3 | 280:00 | 300:00 | 1127.730 | 1.20 | 59 | 88 | 2.36 | 2.40 | 3 | 250 | 247 | 52 | - | 97.5 | 73.74 |
| 4 | 300:00 | 320:00 | 1145.150 | 1.20 | 66 | 91 | 2.37 | 2.40 | 3 | 249 | 250 | 51 | - | 96.4 | 73.94 |
| 5 | 320:00 | 340:00 | 1162.550 | 1.20 | 73 | 93 | 2.40 | 2.40 | 3 | 251 | 248 | 53 | - | 96.2 | 74.08 |
| 6 | 340:00 | 360:00 | 1180.120 | 1.20 | 77 | 95 | 2.41 | 2.40 | 3 | 251 | 248 | 54 | - | 95.9 | 74.21 |
| 7 | 360:00 | 380:00 | 1197.730 | 1.10 | 79 | 98 | 2.20 | 2.20 | 3 | 250 | 249 | 56 | - | 95.8 | 71.24 |
| 8 | 380:00 | 400:00 | 1214.590 | 1.10 | 81 | 98 | 2.21 | 2.20 | 3 | 250 | 249 | 58 | - | 95.4 | 71.24 |
| 9 | 400:00 | 420:00 | 1231.450 | 1.00 | 82 | 99 | 2.01 | 2.00 | 3 | 246 | 250 | 58 | - | 96.9 | 67.99 |
| 10 | 420:00 | 440:00 | 1247.800 | 0.88 | 81 | 100 | 1.76 | 1.80 | 3 | 250 | 252 | 59 | - | 99.7 | 63.84 |
| 11 | 440:00 | 460:00 | 1263.550 | 0.77 | 80 | 102 | 1.54 | 1.50 | 3 | 249 | 248 | 56 | - | 94.6 | 59.82 |
| 12 | 460:00 | 480:00 | 1277.490 | 0.83 | 82 | 104 | 1.66 | 1.70 | 3 | 249 | 245 | 56 | - | 99.3 | 62.22 |

Final DGM: 1292.705

| RESULTS | Run Time | Vm | AP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|------|-------|-----------------|
| | 480.0 min | 397.772 ft ³ | 1.09 in. WC | 61.7 °F | 86.5 °F | 3 | 2.175 in. WC | 99.0 | 0.009 | -0.8 |

| | | | | | | | | | |
|--------------------------------|------------------|------------------|------------------|---|----------------------|------------------------|--------------------------------------|--------------------|-----------------|
| Location: All American Asphalt | | | Start Time: 4:40 | | Source: CAU - Outlet | | | | |
| Date: 3/19/21 | | Run 3 | VALID | End Time: 12:49 | | Project No.: 2021-0883 | Parameter: Metals | | |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA | |
| Moisture: | 1.0 % est. | Meter Box ID: | MS-26 | Est. Tm: | 62 °F | | Pb: | 29.59 in. Hg | Vlc (ml) |
| Barometric: | 30.08 in. Hg | Y: | 0.9995 | Est. Ts: | 87 °F | | Pg: | 0.79 in. WC | 56.1 |
| Static Press: | 1.00 in. WC | ΔH @ (in.WC): | 1.726 | Est. ΔP: | 1.09 in. WC | | O ₂ : | 20.9 % | K-FACTOR |
| Stack Press: | 30.15 in. Hg | Probe ID: | P702-3-2 | Est. Dn: | 0.185 in. | | CO ₂ : | 0.0 6+ | 1.982 |
| CO ₂ : | 0.0 % | Liner Material: | glass | Target Rate: | 0.75 scfm | | Check Pt. Initial Final Corr. | | |
| O ₂ : | 20.9 % | Pitot ID: | PS-2 | LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post | | | Mid 1 (cf) | -- | |
| N ₂ /CO: | 79.1 % | Pitot Cp/Type: | 0.990 standard | Leak Rate (cfm): | 0.002 -- -- -- | | Mid 2 (cf) | -- | |
| Md: | 28.84 lb/lb-mole | Nozzle ID: | G-196-1 glass | Vacuum (in Hg): | 15 -- -- -- | | Mid 3 (cf) | -- | |
| Ms: | 28.73 lb/lb-mole | Nozzle Dn (in.): | 0.196 | Pitot Tube: | Pass -- -- -- Pass | | Mid-Point Leak Check Vol (cf): -- | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|-------------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | | | | | DGM Average | Stack | Ideal Actual | | | Probe | Filter | Imp Exit | Aux | | |
| | Amb. | Amb. | | | | | Amb. | Amb. | | Amb. | Amb. | | | | |
| | — | — | | | | | — | — | | — | — | | | | |
| A1 | 0:00 | 20:00 | 295.292 | 0.98 | 50 | 78 | 1.93 | 1.90 | 3 | 249 | 248 | 47 | - | 94.9 | 66.03 |
| 2 | 20:00 | 40:00 | 310.500 | 1.20 | 52 | 83 | 2.35 | 2.40 | 2 | 250 | 250 | 46 | - | 96.2 | 73.40 |
| 3 | 40:00 | 60:00 | 327.520 | 1.20 | 54 | 82 | 2.36 | 2.40 | 2 | 250 | 249 | 46 | - | 97.5 | 73.34 |
| 4 | 60:00 | 80:00 | 344.860 | 1.20 | 56 | 83 | 2.36 | 2.40 | 2 | 250 | 249 | 48 | - | 99.2 | 73.40 |
| 5 | 80:00 | 100:00 | 362.550 | 1.20 | 54 | 83 | 2.35 | 2.40 | 2 | 251 | 251 | 46 | - | 94.4 | 73.40 |
| 6 | 100:00 | 120:00 | 379.320 | 1.20 | 55 | 82 | 2.36 | 2.40 | 2 | 250 | 249 | 48 | - | 96.6 | 73.34 |
| 7 | 120:00 | 140:00 | 396.530 | 1.20 | 55 | 82 | 2.36 | 2.40 | 2 | 250 | 253 | 46 | - | 99.0 | 73.34 |
| 8 | 140:00 | 160:00 | 414.170 | 1.10 | 54 | 82 | 2.16 | 2.20 | 2 | 250 | 252 | 48 | - | 97.4 | 70.21 |
| 9 | 160:00 | 180:00 | 430.760 | 1.10 | 55 | 80 | 2.18 | 2.20 | 2 | 250 | 250 | 47 | - | 97.1 | 70.08 |
| 10 | 180:00 | 200:00 | 447.370 | 1.20 | 55 | 81 | 2.37 | 2.40 | 2 | 251 | 249 | 49 | - | 97.0 | 73.27 |
| 11 | 200:00 | 220:00 | 464.670 | 1.00 | 57 | 82 | 1.98 | 2.00 | 2 | 250 | 251 | 52 | - | 96.5 | 66.95 |
| 12 | 220:00 | 240:00 | 480.450 | 0.95 | 58 | 83 | 1.88 | 1.90 | 2 | 250 | 251 | 54 | - | 100.7 | 65.31 |
| B1 | 240:00 | 260:00 | 496.510 | 1.00 | 58 | 85 | 1.97 | 2.00 | 2 | 252 | 251 | 55 | - | 92.1 | 67.13 |
| 2 | 260:00 | 280:00 | 511.550 | 1.10 | 62 | 86 | 2.18 | 2.20 | 2 | 250 | 249 | 59 | - | 99.1 | 70.47 |
| 3 | 280:00 | 300:00 | 528.630 | 1.20 | 63 | 89 | 2.37 | 2.40 | 2 | 249 | 248 | 64 | - | 93.3 | 73.81 |
| 4 | 300:00 | 320:00 | 545.410 | 1.20 | 70 | 91 | 2.39 | 2.40 | 3 | 249 | 250 | 65 | - | 95.7 | 73.94 |
| 5 | 320:00 | 340:00 | 562.820 | 1.20 | 76 | 93 | 2.41 | 2.40 | 3 | 250 | 252 | 65 | - | 97.6 | 74.08 |
| 6 | 340:00 | 360:00 | 580.750 | 1.20 | 82 | 95 | 2.43 | 2.40 | 2 | 250 | 250 | 63 | - | 96.6 | 74.21 |
| 7 | 360:00 | 380:00 | 598.650 | 1.20 | 88 | 97 | 2.45 | 2.40 | 2 | 250 | 250 | 60 | - | 96.0 | 74.34 |
| 8 | 380:00 | 400:00 | 616.610 | 1.10 | 89 | 99 | 2.24 | 2.20 | 2 | 251 | 250 | 61 | - | 95.8 | 71.31 |
| 9 | 400:00 | 420:00 | 633.770 | 1.00 | 87 | 100 | 2.03 | 2.00 | 2 | 250 | 249 | 62 | - | 94.4 | 68.05 |
| 10 | 420:00 | 440:00 | 649.840 | 1.00 | 85 | 102 | 2.01 | 2.00 | 2 | 250 | 253 | 62 | - | 94.7 | 68.17 |
| 11 | 440:00 | 460:00 | 665.870 | 0.88 | 84 | 103 | 1.76 | 1.80 | 2 | 248 | 250 | 60 | - | 100.8 | 64.01 |
| 12 | 460:00 | 480:00 | 681.840 | 0.85 | 84 | 103 | 1.71 | 1.70 | 2 | 251 | 251 | 62 | - | 94.0 | 62.91 |
| Final DGM: | | | 696.478 | | | | | | | | | | | | |

| RESULTS | Run Time | Vm | ΔP | Tm | Ts | Max Vac | ΔH | %ISO | BWS | V _{qa} |
|---------|-----------|-------------------------|-------------|---------|---------|---------|--------------|------|-------|-----------------|
| | 480.0 min | 401.186 ft ³ | 1.10 in. WC | 66.0 °F | 88.5 °F | 3 | 2.204 in. WC | 98.4 | 0.007 | -1.0 |

Appendix C

CLIENT: Alliance Souce Testing
LABORATORY NO: 21-212
SAMPLING DATE: 03/17/21
RECEIVING DATE: 03/17/21
ANALYSIS DATE: 03/17/21
REPORT DATE: 03/17/21

Laboratory Analysis Report

| | | | |
|----------------------------------|---------------|----------|----------|
| Analysis Method | SCAQMD 307-91 | | |
| Detection Limits | 0.05 PPMV | | |
| Analyte | Client ID | IN R1 | OUT R1 |
| | Sampling Date | 03/17/21 | 03/17/21 |
| | Sampling Time | 0735 | 0735 |
| | Lab ID | 07621-2 | 07621-1 |
| | Units | PPMV | PPMV |
| Hydrogen Sulfide | | 0.77 | <0.05 |
| Carbonyl Sulfide | | 0.78 | <0.05 |
| Methyl Mercaptan | | 0.53 | <0.05 |
| Ethyl Mercaptan | | 0.15 | <0.05 |
| Un-Identified S Compounds | | 0.61 | <0.05 |
| Total Sulfur as H ₂ S | | 2.85 | <0.05 |



Dr. Andrew Kitto
 President

CLIENT: Alliance Souce Testing
LABORATORY NO: 21-212
SAMPLING DATE: 03/17/21
RECEIVING DATE: 03/17/21
ANALYSIS DATE: 03/17/21
REPORT DATE: 03/17/21

Quality Assurance Report

Duplicate Analysis

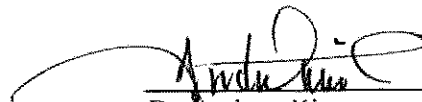
Sample ID: IN R1

Lab ID: 07621-2

| Analysis Method | | SCAQMD 307-91 | | |
|---------------------------------------|-------------|---------------|-------------|------------|
| Detection Limit | | 0.05 PPMV | | |
| Analyte | Aver. Conc. | Dil. Factor | DF*A/CF | % Sample* |
| | PPMV | Ambient Air | PPMV | Recovery |
| Hydrogen Sulfide | 0.76 | 1 | 0.76 | 98.9 |
| Carbonyl Sulfide | 0.81 | 1 | 0.84 | 103 |
| Methyl Mercaptan | 0.54 | 1 | 0.55 | 102 |
| Ethyl Mercaptan | 0.16 | 1 | 0.16 | 103 |
| Unidentified S Compounds | 0.67 | 1 | 0.73 | 109 |
| Total Sulfur as H₂S | 2.94 | 1 | 3.03 | 103 |

N/A: Not Applicable

*Must be ±10%



 Dr. Andrew Kitto
 President



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CHAIN OF CUSTODY

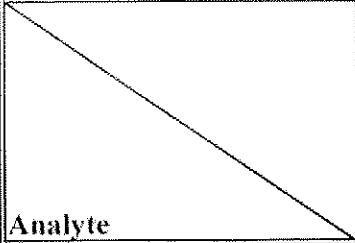
Email: andrewkitto.quantum@gmail.com

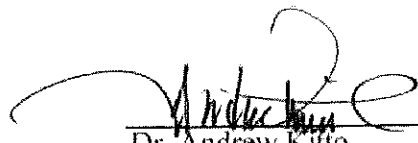
Page: 1 of 1

| Client: <u>Alice</u> | | Project No.: <u>21-212</u> | | Analysis | Turnaround Time: <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> Normal |
|---|---------------|---------------------------------|------------|---|---|
| Contact Person: <u>Charles Figueroa</u> | | Project Name: <u>AAALSFC</u> | | | |
| tel: <u>714 809 9681</u> | | Project Manager: <u>Charles</u> | | <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> TOTAL 3074 TOTAL 3074 </div> | |
| fax: <u>-</u> | | P.O. Number: _____ | | | |
| Client Sample ID | Tag # | Date | Time | Lab ID Number | Remarks |
| EM RI | | 3-17-21 | 7:55:03M | 07621-2 | X |
| 6AS RI | | 3-17-21 | 7:35-08:35 | -1 | X |
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| <i>[Signature]</i> | 3/17/21 11:30 | <i>[Signature]</i> | | 3/17/21 11:35 | |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/time | |
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| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/time | |
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CLIENT: Alliance Source Testing
LABORATORY NO: 21-214
SAMPLING DATE: 03/18/21
RECEIVING DATE: 03/18/21
ANALYSIS DATE: 03/18/21
REPORT DATE: 03/19/21

Laboratory Analysis Report

| | | | |
|--|----------------------|---------------------|----------------------|
| Analysis Method | SCAQMD 307-91 | | |
| Detection Limits | 0.05 PPMV | | |
|  | Client ID | AAA Inlet R2 | AAA Outlet R2 |
| | Sampling Date | 03/18/21 | 03/18/21 |
| | Sampling Time | 0621-0721 | 0621-0721 |
| | Lab ID | 07721-4 | 07721-5 |
| | Units | PPMV | PPMV |
| Analyte | | | |
| Hydrogen Sulfide | | 1.85 | <0.05 |
| Carbonyl Sulfide | | 0.69 | <0.05 |
| Methyl Mercaptan | | 1.01 | <0.05 |
| Ethyl Mercaptan | | 0.16 | <0.05 |
| Un-Identified S Compounds | | 1.01 | <0.05 |
| Total Sulfur as H₂S | | 4.72 | <0.05 |



 Dr. Andrew Kitto
 President

CLIENT: Alliance Source Testing
LABORATORY NO: 21-214
SAMPLING DATE: 03/18/21
RECEIVING DATE: 03/18/21
ANALYSIS DATE: 03/18/21
REPORT DATE: 03/19/21

Quality Assurance Report

Duplicate Analysis

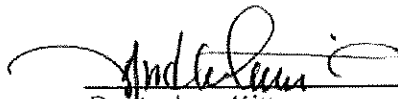
Sample ID: AAA Inlet R2

Lab ID: 07721-4

| Analysis Method | | SCAQMD 307-91 | | |
|---------------------------------------|---------------------|----------------------------|-----------------|-----------------------|
| Detection Limit | | 0.05 PPMV | | |
| Analyte | Aver. Conc. PPMV | Dil. Factor Ambient Air | DF*A/CF PPMV | % Sample* Recovery |
| Hydrogen Sulfide | 1.81 | 1 | 1.76 | 97.5 |
| Carbonyl Sulfide | 0.70 | 1 | 0.71 | 102 |
| Methyl Mercaptan | 0.99 | 1 | 0.97 | 98.0 |
| Ethyl Mercaptan | 0.17 | 1 | 0.19 | 106 |
| Unidentified S Compounds | 0.99 | 1 | 0.98 | 98.3 |
| Total Sulfur as H₂S | 4.66 | 1 | 4.60 | 98.7 |

N/A: Not Applicable

*Must be ±10%



 Dr. Andrew Kitto
 President



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CHAIN OF CUSTODY

Page: 1 of 1

| | | | | | | | |
|--|-----------|--------------------------------------|-----------|---|-----------|---|-------|
| Client: <u>Alliance Source Testing</u> | | Project No.: <u>21-0883</u> | | Analysis | | Turnaround Time: | |
| Project Name: <u>AAA</u> | | Project Manager: <u>Ashley Keesh</u> | | <u>CLANDON 30745</u> <u>15/06/2015</u> | | <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> Normal | |
| P.O. Number: <u>Project #</u> | | Lab ID Number | | | | Remarks | |
| Client Sample ID | Tag # | Date | Time | | | | |
| AAA Inlet RZ | 1 | 3/18/21 | 6:21-7:21 | X | | Total Salfer | |
| AAA Outlet RZ | | 3/18/21 | 11 | X | | 11" | |
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| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/Time | Date/Time | | |
| (signature) | | (signature) | | 3/18/21 | 3/18/21 | | 9:45 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/Time | Date/Time | | |
| (signature) | | (signature) | | 3/18/21 | 3/18/21 | | 10:15 |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/Time | Date/Time | | |
| (signature) | | (signature) | | | | | |

CLIENT: Almega-Alliance
LABORATORY NO: 21-227
SAMPLING DATE: 03/19/21
RECEIVING DATE: 03/19/21
ANALYSIS DATE: 03/19/21
REPORT DATE: 03/22/21

Laboratory Analysis Report

| | | | |
|----------------------------------|---------------|----------|-----------|
| Analysis Method | SCAQMD 307-91 | | |
| Detection Limits | 0.05 PPMV | | |
| Analyte | Client ID | Inlet R3 | Outlet R3 |
| | Sampling Date | 03/19/21 | 03/19/21 |
| | Sampling Time | 0645 | 0645 |
| | Lab ID | 07821-8 | 07821-9 |
| | Units | PPMV | PPMV |
| Hydrogen Sulfide | | 1.05 | <0.05 |
| Carbonyl Sulfide | | 0.48 | <0.05 |
| Methyl Mercaptan | | 1.16 | <0.05 |
| Ethyl Mercaptan | | 0.14 | <0.05 |
| Un-Identified S Compounds | | 1.25 | <0.05 |
| Total Sulfur as H ₂ S | | 4.07 | <0.05 |



Dr. Andrew Kitto
 President

CLIENT: Almega-Alliance
LABORATORY NO: 21-227
SAMPLING DATE: 03/19/21
RECEIVING DATE: 03/19/21
ANALYSIS DATE: 03/19/21
REPORT DATE: 03/22/21

Quality Assurance Report

Duplicate Analysis


Sample ID: Inlet R3

Lab ID: 07821-8

| Analysis Method | | SCAQMD 307-91 | | |
|---------------------------------------|-------------|---------------|-------------|------------|
| Detection Limit | | 0.05 PPMV | | |
| Analyte | Aver. Conc. | Dil. Factor | DF*A/CF | % Sample* |
| | PPMV | Ambient Air | PPMV | Recovery |
| Hydrogen Sulfide | 1.13 | 1 | 1.22 | 108 |
| Carbonyl Sulfide | 0.46 | 1 | 0.45 | 97.0 |
| Methyl Mercaptan | 1.17 | 1 | 1.18 | 101 |
| Ethyl Mercaptan | 0.15 | 1 | 0.15 | 104 |
| Unidentified S Compounds | 1.22 | 1 | 1.18 | 97.3 |
| Total Sulfur as H₂S | 4.13 | 1 | 4.18 | 101 |

N/A: Not Applicable

*Must be ±10%



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Page: 21-227 of: _____

| Client: <u>Alliance Source Testing</u> | | Project No.: <u>21-0883</u> | | Turnaround Time: | |
|---|-------|---------------------------------|------|--|---------|
| Contact Person: <u>Charles Figueroa</u> | | Project Name: <u>AAA</u> | | <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> Normal | |
| tel: <u>714 809 9681</u> | | Project Manager: <u>Charles</u> | | Analysis | |
| fax: _____ | | P.O. Number: _____ | | | |
| Client Sample ID | Tag # | Date | Time | Lab ID Number | Remarks |
| Inlet R1 | | 3-17-21 | | | |
| Outlet R1 | | 3-17-21 | | | |
| Inlet R2 | | 3-18-21 | | | |
| Outlet R2 | | 3-18-21 | | | |
| Inlet R3 | | 3-19-21 | 0645 | 0821-8 | |
| Outlet R3 | | 3-19-21 | 0645 | -9 | |
| Relinquished by: (signature) | | Date/Time | | Received by: (signature) | |
| <i>[Signature]</i> | | 3-19-21 | | <i>[Signature]</i> | |
| Relinquished by: (signature) | | Date/Time | | Received by: (signature) | |
| <i>[Signature]</i> | | 3/19/21 1130 | | <i>[Signature]</i> | |
| Relinquished by: (signature) | | Date/Time | | Received by: (signature) | |
| <i>[Signature]</i> | | 3/19/21 | | <i>[Signature]</i> | |



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LABORATORY REPORT

March 30, 2021

Andrew Kitto, Ph.D.
Quantum Analytical Services
1210 E. 223rd Street Suite 314
Carson, CA 90745

RE: 21_230

Dear Andrew:

Enclosed are the results of the samples submitted to our laboratory on March 22, 2021. For your reference, these analyses have been assigned our service request number P2101456.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 11:38 am, Mar 30, 2021

Sue Anderson
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
www.alsglobal.com

Client: Quantum Analytical Services
Project: 21_230

Service Request No: P2101456

CASE NARRATIVE

The samples were received intact under chain of custody on March 22, 2021 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds and tentatively identified compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

| Agency | Web Site | Number |
|------------------------|---|-------------------------|
| Alaska DEC | http://dec.alaska.gov/eh/lab.aspx | 17-019 |
| Arizona DHS | http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home | AZ0694 |
| Florida DOH (NELAP) | http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html | E871020 |
| Louisiana DEQ (NELAP) | http://www.deq.louisiana.gov/page/la-lab-accreditation | 05071 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml | 2018027 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 1776326 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/enforcement/oqa.html | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | 4068-008 |
| Pennsylvania DEP | http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx | 68-03307 (Registration) |
| PJLA (DoD ELAP) | http://www.pjlabs.com/search-accredited-labs | 65818 (Testing) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/agency/ga/env_lab_accreditation.html | T104704413-19-10 |
| Utah DOH (NELAP) | http://health.utah.gov/lab/lab_cert_env | CA016272019-10 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Quantum Analytical Services
Project ID: 21_230

Service Request: P2101456

Date Received: 3/22/2021
Time Received: 16:00

TO-15 - VOC Cans

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | |
|------------------|--------------|--------|----------------|----------------|---|
| 2021_0883_A3 | P2101456-001 | Air | 3/19/2021 | 00:00 | X |
| 2021_0883_A4 | P2101456-002 | Air | 3/19/2021 | 00:00 | X |



NO 9346

P21014ES

310/830-2226 • www.quantumairlab.com

1210 E. 223rd Street, Suite #314 • Carson, California 90745

CHAIN OF CUSTODY

Email: andrewkitto.quantum@gmail.com

Page: _____ of: _____

| | | | | | |
|------------------------------|----------------|----------------------------|------|--|--|
| Client: <u>Alliance</u> | | Project No.: <u>21-230</u> | | Turnaround Time: | |
| Project Name: _____ | | Project Manager: _____ | | <input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> Normal | |
| P.O. Number: _____ | | Lab ID Number: _____ | | Remarks: _____ | |
| Client Sample ID | Tag # | Date | Time | Remarks | |
| <u>2021-0883-A3</u> | <u>TAK 37</u> | <u>3/19/21</u> | | <u>on grass</u> | |
| <u>2021-0883-A4</u> | <u>38</u> | <u>3/19/21</u> | | <u>Next to Vent on Rubber</u> | |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/time | |
| <u>[Signature]</u> | <u>3/22/21</u> | <u>[Signature]</u> | | | |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/time | |
| <u>[Signature]</u> | <u>4:00 p</u> | <u>[Signature]</u> | | <u>3-28-21 1000</u> | |
| Relinquished by: (signature) | Date/Time | Received by: (signature) | | Date/time | |
| | | <u>[Signature]</u> | | | |

ALS Environmental Sample Acceptance Check Form

Client: Quantum Analytical Services Work order: P2101456
 Project: 21 230
 Sample(s) received on: 3/22/21 Date opened: 3/22/21 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|-----------------|-----------------------|---------------|-------------|-------------|----------------------------------|---------------------------------|
| P2101456-001.01 | Canister | | | | | |
| P2101456-002.01 | Canister | | | | | |
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Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: **Quantum Analytical Services**
 Client Sample ID: **2021_0883_A3**
 Client Project ID: **21_230**

ALS Project ID: P2101456
 ALS Sample ID: P2101456-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister
 Test Notes:

Date Collected: 3/19/21
 Date Received: 3/22/21
 Date Analyzed: 3/24/21
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | 1.1 | 0.52 | 0.66 | 0.30 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 1.8 | 0.52 | 0.36 | 0.11 | |
| 74-87-3 | Chloromethane | ND | 0.52 | ND | 0.25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.52 | ND | 0.074 | |
| 75-01-4 | Vinyl Chloride | ND | 0.53 | ND | 0.21 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.52 | ND | 0.24 | |
| 74-83-9 | Bromomethane | ND | 0.52 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.52 | ND | 0.20 | |
| 64-17-5 | Ethanol | ND | 5.3 | ND | 2.8 | |
| 75-05-8 | Acetonitrile | ND | 0.53 | ND | 0.32 | |
| 107-02-8 | Acrolein | ND | 1.1 | ND | 0.48 | |
| 67-64-1 | Acetone | 13 | 5.2 | 5.7 | 2.2 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 0.86 | 0.51 | 0.15 | 0.091 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 1.2 | 1.0 | 0.51 | 0.41 | |
| 107-13-1 | Acrylonitrile | ND | 1.0 | ND | 0.46 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | 0.82 | 0.52 | 0.24 | 0.15 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.52 | ND | 0.17 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.53 | ND | 0.069 | |
| 75-15-0 | Carbon Disulfide | ND | 1.0 | ND | 0.32 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.53 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.54 | ND | 0.13 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.52 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.5 | ND | 1.6 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1.0 | ND | 0.34 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Quantum Analytical Services

Client Sample ID: 2021_0883_A3

Client Project ID: 21_230

ALS Project ID: P2101456

ALS Sample ID: P2101456-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: 3/19/21

Date Received: 3/22/21

Date Analyzed: 3/24/21

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.52 | ND | 0.15 | |
| 67-66-3 | Chloroform | ND | 0.53 | ND | 0.11 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 1.0 | ND | 0.34 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.52 | ND | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 71-43-2 | Benzene | ND | 0.52 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.51 | ND | 0.081 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.52 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.52 | ND | 0.078 | |
| 79-01-6 | Trichloroethene | ND | 0.51 | ND | 0.095 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.52 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.52 | ND | 0.13 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.53 | ND | 0.12 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.0 | ND | 0.24 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.51 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 108-88-3 | Toluene | ND | 0.52 | ND | 0.14 | |
| 591-78-6 | 2-Hexanone | ND | 1.0 | ND | 0.24 | |
| 124-48-1 | Dibromochloromethane | ND | 0.52 | ND | 0.061 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.52 | ND | 0.068 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.0 | ND | 0.21 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Quantum Analytical Services

Client Sample ID: 2021_0883_A3

Client Project ID: 21_230

ALS Project ID: P2101456

ALS Sample ID: P2101456-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: 3/19/21

Date Received: 3/22/21

Date Analyzed: 3/24/21

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.52 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.52 | ND | 0.077 | |
| 108-90-7 | Chlorobenzene | ND | 0.52 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.52 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.53 | ND | 0.051 | |
| 100-42-5 | Styrene | ND | 0.52 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.53 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.53 | ND | 0.10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.53 | ND | 0.077 | |
| 98-82-8 | Cumene | ND | 0.52 | ND | 0.11 | |
| 80-56-8 | alpha-Pinene | ND | 0.53 | ND | 0.095 | |
| 103-65-1 | n-Propylbenzene | ND | 0.52 | ND | 0.11 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.53 | ND | 0.11 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.53 | ND | 0.11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 100-44-7 | Benzyl Chloride | ND | 1.1 | ND | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 5989-27-5 | d-Limonene | ND | 0.52 | ND | 0.093 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | ND | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | ND | 0.13 | |
| 91-20-3 | Naphthalene | ND | 0.52 | ND | 0.099 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.52 | ND | 0.049 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: Quantum Analytical Services
Client Sample ID: 2021_0883_A3
Client Project ID: 21_230

ALS Project ID: P2101456
ALS Sample ID: P2101456-001

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: 3/19/21
Date Received: 3/22/21
Date Analyzed: 3/24/21
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| GC/MS Retention Time | Compound Identification | Concentration µg/m ³ | Data Qualifier |
|-------------------------|-------------------------|------------------------------------|-------------------|
| No Compounds Detected | | | |

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: **Quantum Analytical Services**
 Client Sample ID: **2021_0883_A4**
 Client Project ID: **21_230**

ALS Project ID: P2101456
 ALS Sample ID: P2101456-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister
 Test Notes:

Date Collected: 3/19/21
 Date Received: 3/22/21
 Date Analyzed: 3/24/21
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 115-07-1 | Propene | 1.6 | 0.52 | 0.92 | 0.30 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 1.7 | 0.52 | 0.35 | 0.11 | |
| 74-87-3 | Chloromethane | ND | 0.52 | ND | 0.25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.52 | ND | 0.074 | |
| 75-01-4 | Vinyl Chloride | ND | 0.53 | ND | 0.21 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.52 | ND | 0.24 | |
| 74-83-9 | Bromomethane | ND | 0.52 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.52 | ND | 0.20 | |
| 64-17-5 | Ethanol | 6.3 | 5.3 | 3.3 | 2.8 | |
| 75-05-8 | Acetonitrile | ND | 0.53 | ND | 0.32 | |
| 107-02-8 | Acrolein | ND | 1.1 | ND | 0.48 | |
| 67-64-1 | Acetone | 26 | 5.2 | 11 | 2.2 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 0.84 | 0.51 | 0.15 | 0.091 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 1.4 | 1.0 | 0.57 | 0.41 | |
| 107-13-1 | Acrylonitrile | ND | 1.0 | ND | 0.46 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | 23 | 0.52 | 6.7 | 0.15 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.52 | ND | 0.17 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.53 | ND | 0.069 | |
| 75-15-0 | Carbon Disulfide | ND | 1.0 | ND | 0.32 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.53 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.54 | ND | 0.13 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.52 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.5 | ND | 1.6 | |
| 78-93-3 | 2-Butanone (MEK) | 2.0 | 1.0 | 0.68 | 0.34 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 4

Client: Quantum Analytical Services

Client Sample ID: 2021_0883_A4

Client Project ID: 21_230

ALS Project ID: P2101456

ALS Sample ID: P2101456-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: 3/19/21

Date Received: 3/22/21

Date Analyzed: 3/24/21

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.52 | ND | 0.15 | |
| 67-66-3 | Chloroform | ND | 0.53 | ND | 0.11 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 1.0 | ND | 0.34 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.52 | ND | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 71-43-2 | Benzene | ND | 0.52 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.51 | ND | 0.081 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.52 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.52 | ND | 0.078 | |
| 79-01-6 | Trichloroethene | ND | 0.51 | ND | 0.095 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.52 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.52 | ND | 0.13 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.53 | ND | 0.12 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.0 | ND | 0.24 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.51 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 108-88-3 | Toluene | 0.73 | 0.52 | 0.19 | 0.14 | |
| 591-78-6 | 2-Hexanone | ND | 1.0 | ND | 0.24 | |
| 124-48-1 | Dibromochloromethane | ND | 0.52 | ND | 0.061 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.52 | ND | 0.068 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.0 | ND | 0.21 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 4

Client: **Quantum Analytical Services**
 Client Sample ID: **2021_0883_A4**
 Client Project ID: **21_230**

ALS Project ID: P2101456
 ALS Sample ID: P2101456-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister
 Test Notes:

Date Collected: 3/19/21
 Date Received: 3/22/21
 Date Analyzed: 3/24/21
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------|--------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.52 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.52 | ND | 0.077 | |
| 108-90-7 | Chlorobenzene | ND | 0.52 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.52 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.53 | ND | 0.051 | |
| 100-42-5 | Styrene | ND | 0.52 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.53 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.53 | ND | 0.10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.53 | ND | 0.077 | |
| 98-82-8 | Cumene | ND | 0.52 | ND | 0.11 | |
| 80-56-8 | alpha-Pinene | 0.62 | 0.53 | 0.11 | 0.095 | |
| 103-65-1 | n-Propylbenzene | ND | 0.52 | ND | 0.11 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.53 | ND | 0.11 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.53 | ND | 0.11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 100-44-7 | Benzyl Chloride | ND | 1.1 | ND | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 5989-27-5 | d-Limonene | 0.74 | 0.52 | 0.13 | 0.093 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | ND | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | ND | 0.13 | |
| 91-20-3 | Naphthalene | ND | 0.52 | ND | 0.099 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.52 | ND | 0.049 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 4 of 4

Client: **Quantum Analytical Services**
Client Sample ID: **2021_0883_A4**
Client Project ID: **21_230**

ALS Project ID: P2101456
ALS Sample ID: P2101456-002

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes: **T**

Date Collected: 3/19/21
Date Received: 3/22/21
Date Analyzed: 3/24/21
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 0.0

Canister Dilution Factor: 1.00

| GC/MS Retention Time | Compound Identification | Concentration µg/m ³ | Data Qualifier |
|-------------------------|-------------------------|------------------------------------|-------------------|
| 4.85 | Isobutane | 4.5 | |
| 5.37 | n-Butane | 7.1 | |
| 18.25 | 3-Heptanone | 8.6 | |
| 20.41 | 2-Ethyl-1-hexanol | 11 | |

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: Quantum Analytical Services

Client Sample ID: Method Blank

Client Project ID: 21_230

ALS Project ID: P2101456

ALS Sample ID: P210323-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 3/23/21

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result | | MRL | | Data Qualifier |
|-----------|--|-------------------|-------------------|------|-------|----------------|
| | | µg/m ³ | µg/m ³ | ppbV | ppbV | |
| 115-07-1 | Propene | ND | 0.52 | ND | 0.30 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.52 | ND | 0.11 | |
| 74-87-3 | Chloromethane | ND | 0.52 | ND | 0.25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.52 | ND | 0.074 | |
| 75-01-4 | Vinyl Chloride | ND | 0.53 | ND | 0.21 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.52 | ND | 0.24 | |
| 74-83-9 | Bromomethane | ND | 0.52 | ND | 0.13 | |
| 75-00-3 | Chloroethane | ND | 0.52 | ND | 0.20 | |
| 64-17-5 | Ethanol | ND | 5.3 | ND | 2.8 | |
| 75-05-8 | Acetonitrile | ND | 0.53 | ND | 0.32 | |
| 107-02-8 | Acrolein | ND | 1.1 | ND | 0.48 | |
| 67-64-1 | Acetone | ND | 5.2 | ND | 2.2 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | ND | 0.51 | ND | 0.091 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 1.0 | ND | 0.41 | |
| 107-13-1 | Acrylonitrile | ND | 1.0 | ND | 0.46 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 75-09-2 | Methylene Chloride | ND | 0.52 | ND | 0.15 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.52 | ND | 0.17 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | ND | 0.53 | ND | 0.069 | |
| 75-15-0 | Carbon Disulfide | ND | 1.0 | ND | 0.32 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.53 | ND | 0.13 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.54 | ND | 0.13 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.52 | ND | 0.14 | |
| 108-05-4 | Vinyl Acetate | ND | 5.5 | ND | 1.6 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1.0 | ND | 0.34 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 4

Client: Quantum Analytical Services

Client Sample ID: Method Blank

Client Project ID: 21_230

ALS Project ID: P2101456

ALS Sample ID: P210323-MB

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: NA

Analyst: Lusine Hakobyan

Date Analyzed: 3/23/21

Sample Type: Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.52 | ND | 0.13 | |
| 141-78-6 | Ethyl Acetate | ND | 1.0 | ND | 0.28 | |
| 110-54-3 | n-Hexane | ND | 0.52 | ND | 0.15 | |
| 67-66-3 | Chloroform | ND | 0.53 | ND | 0.11 | |
| 109-99-9 | Tetrahydrofuran (THF) | ND | 1.0 | ND | 0.34 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.52 | ND | 0.13 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 71-43-2 | Benzene | ND | 0.52 | ND | 0.16 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.51 | ND | 0.081 | |
| 110-82-7 | Cyclohexane | ND | 1.0 | ND | 0.29 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.52 | ND | 0.11 | |
| 75-27-4 | Bromodichloromethane | ND | 0.52 | ND | 0.078 | |
| 79-01-6 | Trichloroethene | ND | 0.51 | ND | 0.095 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.52 | ND | 0.14 | |
| 80-62-6 | Methyl Methacrylate | ND | 1.0 | ND | 0.24 | |
| 142-82-5 | n-Heptane | ND | 0.52 | ND | 0.13 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.53 | ND | 0.12 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.0 | ND | 0.24 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.51 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.52 | ND | 0.095 | |
| 108-88-3 | Toluene | ND | 0.52 | ND | 0.14 | |
| 591-78-6 | 2-Hexanone | ND | 1.0 | ND | 0.24 | |
| 124-48-1 | Dibromochloromethane | ND | 0.52 | ND | 0.061 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.52 | ND | 0.068 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.0 | ND | 0.21 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 4

Client: Quantum Analytical Services
Client Sample ID: Method Blank
Client Project ID: 21_230

ALS Project ID: P2101456
 ALS Sample ID: P210323-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/23/21
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | Result ppbV | MRL ppbV | Data Qualifier |
|-------------|-----------------------------|-----------------------------|--------------------------|----------------|-------------|-------------------|
| 111-65-9 | n-Octane | ND | 0.52 | ND | 0.11 | |
| 127-18-4 | Tetrachloroethene | ND | 0.52 | ND | 0.077 | |
| 108-90-7 | Chlorobenzene | ND | 0.52 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.52 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.0 | ND | 0.23 | |
| 75-25-2 | Bromoform | ND | 0.53 | ND | 0.051 | |
| 100-42-5 | Styrene | ND | 0.52 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.53 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.53 | ND | 0.10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.53 | ND | 0.077 | |
| 98-82-8 | Cumene | ND | 0.52 | ND | 0.11 | |
| 80-56-8 | alpha-Pinene | ND | 0.53 | ND | 0.095 | |
| 103-65-1 | n-Propylbenzene | ND | 0.52 | ND | 0.11 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.53 | ND | 0.11 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.53 | ND | 0.11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 100-44-7 | Benzyl Chloride | ND | 1.1 | ND | 0.20 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 5989-27-5 | d-Limonene | ND | 0.52 | ND | 0.093 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | ND | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | ND | 0.13 | |
| 91-20-3 | Naphthalene | ND | 0.52 | ND | 0.099 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.52 | ND | 0.049 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 4 of 4

Client: Quantum Analytical Services
Client Sample ID: Method Blank
Client Project ID: 21_230

ALS Project ID: P2101456
ALS Sample ID: P210323-MB

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 3/23/21
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| GC/MS Retention Time | Compound Identification | Concentration µg/m ³ | Data Qualifier |
|-----------------------------------|-------------------------|------------------------------------|-------------------|
| <hr/> No Compounds Detected <hr/> | | | |

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Quantum Analytical Services
Client Project ID: 21_230

ALS Project ID: P2101456

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister(s)
 Test Notes:

Date(s) Collected: 3/19/21
 Date(s) Received: 3/22/21
 Date(s) Analyzed: 3/23 - 3/24/21

| Client Sample ID | ALS Sample ID | 1,2-Dichloroethane-d4 | Toluene-d8 | Bromofluorobenzene | Acceptance Limits | Data Qualifier |
|--------------------|---------------|-----------------------|-------------------|--------------------|-------------------|----------------|
| | | Percent Recovered | Percent Recovered | Percent Recovered | | |
| Method Blank | P210323-MB | 108 | 94 | 98 | 70-130 | |
| Lab Control Sample | P210323-LCS | 100 | 87 | 90 | 70-130 | |
| 2021_0883_A3 | P2101456-001 | 102 | 88 | 93 | 70-130 | |
| 2021_0883_A4 | P2101456-002 | 103 | 91 | 94 | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Quantum Analytical Services
Client Sample ID: Lab Control Sample
Client Project ID: 21_230

ALS Project ID: P2101456
 ALS Sample ID: P210323-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/24/21
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|-----------|--|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 115-07-1 | Propene | 210 | 219 | 104 | 56-128 | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 210 | 185 | 88 | 71-112 | |
| 74-87-3 | Chloromethane | 206 | 160 | 78 | 53-126 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 216 | 175 | 81 | 62-121 | |
| 75-01-4 | Vinyl Chloride | 208 | 198 | 95 | 63-123 | |
| 106-99-0 | 1,3-Butadiene | 210 | 220 | 105 | 63-135 | |
| 74-83-9 | Bromomethane | 212 | 179 | 84 | 71-112 | |
| 75-00-3 | Chloroethane | 204 | 181 | 89 | 66-117 | |
| 64-17-5 | Ethanol | 998 | 812 | 81 | 57-117 | |
| 75-05-8 | Acetonitrile | 202 | 189 | 94 | 59-131 | |
| 107-02-8 | Acrolein | 436 | 389 | 89 | 71-123 | |
| 67-64-1 | Acetone | 1,030 | 874 | 85 | 60-117 | |
| 75-69-4 | Trichlorofluoromethane (CFC 11) | 204 | 176 | 86 | 71-114 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 408 | 329 | 81 | 61-124 | |
| 107-13-1 | Acrylonitrile | 410 | 384 | 94 | 65-130 | |
| 75-35-4 | 1,1-Dichloroethene | 212 | 185 | 87 | 74-114 | |
| 75-09-2 | Methylene Chloride | 208 | 186 | 89 | 75-112 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 210 | 196 | 93 | 57-127 | |
| 76-13-1 | Trichlorotrifluoroethane (CFC 113) | 214 | 180 | 84 | 73-114 | |
| 75-15-0 | Carbon Disulfide | 428 | 395 | 92 | 70-113 | |
| 156-60-5 | trans-1,2-Dichloroethene | 212 | 201 | 95 | 76-119 | |
| 75-34-3 | 1,1-Dichloroethane | 212 | 190 | 90 | 70-114 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 212 | 158 | 75 | 72-118 | |
| 108-05-4 | Vinyl Acetate | 1,100 | 965 | 88 | 56-137 | |
| 78-93-3 | 2-Butanone (MEK) | 412 | 412 | 100 | 74-121 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Quantum Analytical Services
Client Sample ID: Lab Control Sample
Client Project ID: 21_230

ALS Project ID: P2101456
 ALS Sample ID: P210323-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/24/21
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|------------|---------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 156-59-2 | cis-1,2-Dichloroethene | 208 | 195 | 94 | 73-117 | |
| 141-78-6 | Ethyl Acetate | 422 | 598 | 142 | 59-161 | |
| 110-54-3 | n-Hexane | 212 | 197 | 93 | 55-130 | |
| 67-66-3 | Chloroform | 214 | 189 | 88 | 71-114 | |
| 109-99-9 | Tetrahydrofuran (THF) | 400 | 341 | 85 | 73-114 | |
| 107-06-2 | 1,2-Dichloroethane | 208 | 182 | 88 | 71-119 | |
| 71-55-6 | 1,1,1-Trichloroethane | 206 | 174 | 84 | 73-119 | |
| 71-43-2 | Benzene | 204 | 175 | 86 | 72-113 | |
| 56-23-5 | Carbon Tetrachloride | 210 | 181 | 86 | 67-123 | |
| 110-82-7 | Cyclohexane | 416 | 357 | 86 | 70-119 | |
| 78-87-5 | 1,2-Dichloropropane | 206 | 187 | 91 | 70-118 | |
| 75-27-4 | Bromodichloromethane | 210 | 195 | 93 | 74-119 | |
| 79-01-6 | Trichloroethene | 206 | 175 | 85 | 74-115 | |
| 123-91-1 | 1,4-Dioxane | 208 | 194 | 93 | 77-124 | |
| 80-62-6 | Methyl Methacrylate | 416 | 400 | 96 | 78-126 | |
| 142-82-5 | n-Heptane | 210 | 186 | 89 | 70-119 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 210 | 198 | 94 | 81-126 | |
| 108-10-1 | 4-Methyl-2-pentanone | 416 | 397 | 95 | 73-129 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 202 | 205 | 101 | 80-127 | |
| 79-00-5 | 1,1,2-Trichloroethane | 206 | 183 | 89 | 78-117 | |
| 108-88-3 | Toluene | 206 | 159 | 77 | 70-118 | |
| 591-78-6 | 2-Hexanone | 404 | 403 | 100 | 74-132 | |
| 124-48-1 | Dibromochloromethane | 210 | 177 | 84 | 69-137 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 172 | 83 | 76-128 | |
| 123-86-4 | n-Butyl Acetate | 406 | 403 | 99 | 75-134 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Quantum Analytical Services
Client Sample ID: Lab Control Sample
Client Project ID: 21_230

ALS Project ID: P2101456
 ALS Sample ID: P210323-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 3/24/21
 Volume(s) Analyzed: 0.125 Liter(s)

| CAS # | Compound | Spike Amount µg/m ³ | Result µg/m ³ | % Recovery | ALS | Data Qualifier |
|-------------|-----------------------------|-----------------------------------|-----------------------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 111-65-9 | n-Octane | 210 | 176 | 84 | 68-120 | |
| 127-18-4 | Tetrachloroethene | 206 | 151 | 73 | 63-130 | |
| 108-90-7 | Chlorobenzene | 206 | 162 | 79 | 70-118 | |
| 100-41-4 | Ethylbenzene | 206 | 165 | 80 | 71-123 | |
| 179601-23-1 | m,p-Xylenes | 412 | 317 | 77 | 67-127 | |
| 75-25-2 | Bromoform | 208 | 183 | 88 | 65-149 | |
| 100-42-5 | Styrene | 206 | 170 | 83 | 76-132 | |
| 95-47-6 | o-Xylene | 206 | 157 | 76 | 69-124 | |
| 111-84-2 | n-Nonane | 208 | 165 | 79 | 64-127 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 206 | 165 | 80 | 69-128 | |
| 98-82-8 | Cumene | 208 | 159 | 76 | 69-125 | |
| 80-56-8 | alpha-Pinene | 214 | 169 | 79 | 68-129 | |
| 103-65-1 | n-Propylbenzene | 208 | 163 | 78 | 70-127 | |
| 622-96-8 | 4-Ethyltoluene | 210 | 168 | 80 | 69-127 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 206 | 160 | 78 | 66-129 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 204 | 163 | 80 | 63-142 | |
| 100-44-7 | Benzyl Chloride | 402 | 372 | 93 | 73-145 | |
| 541-73-1 | 1,3-Dichlorobenzene | 206 | 167 | 81 | 67-136 | |
| 106-46-7 | 1,4-Dichlorobenzene | 204 | 166 | 81 | 63-134 | |
| 95-50-1 | 1,2-Dichlorobenzene | 206 | 168 | 82 | 64-139 | |
| 5989-27-5 | d-Limonene | 208 | 199 | 96 | 63-137 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 370 | 341 | 92 | 72-145 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 388 | 375 | 97 | 62-154 | |
| 91-20-3 | Naphthalene | 198 | 211 | 107 | 62-156 | |
| 87-68-3 | Hexachlorobutadiene | 210 | 160 | 76 | 55-142 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

LABORATORY REPORT

Non-Methane Non-Ethane Organic compound Emissions by SCAQMD Method 25.1 (TCA/FID)

Client: AAA
 Project No.: 21-0883
 Unit Tested: Inlet
 Sampling Date: 17-Mar-21
 Analyzed Date: 30-Mar-21
 Lab No.: A 027

| Client Sample ID | Lab ID | Almega Sample ID | | | Total NMNEO ppm | NMNEO ppm condensable | NMNEO ppm noncondensable | CH ₄ ppm | C ₂ H ₆ ppm | CO ppm | CO ₂ ppm | O ₂ % v/v by TCD |
|------------------------|---------------|------------------|------|-------|-----------------|-----------------------|--------------------------|---------------------|-----------------------------------|--------|---------------------|-----------------------------|
| | | Tank | Trap | ICV | | | | | | | | |
| Inlet | | | | | | | | | | | | |
| M25.1-CAU Inlet Run 1A | A 027 - 011 A | T-17 | 110 | ICV-1 | 371 | 142 | 229 | 25.8 | 19.0 | 25.8 | 681 | 21.2 |
| M25.1-CAU Inlet Run 1B | A 027 - 011 B | T-10 | 066 | ICV-2 | 355 | 126 | 229 | 24.7 | 18.0 | 25.3 | 673 | 21.4 |
| M25.1-CAU Inlet Run 2C | A 027 - 021 A | T-1 | 059 | ICV-3 | 842 | 510 | 332 | 41.5 | 31.0 | 45.5 | 1138 | 21.2 |
| M25.1-CAU Inlet Run 2D | A 027 - 021 B | T-7 | 085 | ICV-4 | 847 | 438 | 408 | 40.4 | 29.9 | 44.9 | 1129 | 21.2 |
| M25.1-CAU Inlet Run 3A | A 027 - 031 A | 1 | 065 | ICV-5 | 570 | 294 | 277 | 25.9 | 12.0 | 31.0 | 1024 | 21.1 |
| M25.1-CAU Inlet Run 3B | A 027 - 031 B | 19 | 074 | ICV-6 | 561 | 294 | 266 | 25.7 | 11.9 | 30.5 | 1009 | 20.7 |
| Detection Limit | | | | | | 5 | 5 | 5 | 5 | 5 | 5 | 0.3 |

ND=Not Detected

* = CO₂ by GC/FID ppm DL - 5ppm

TGNMNEO concentration values are reported in ppm (v/v) as Methane.

The sample cylinder is analyzed for NMNEO, CO, CH₄, CO₂ and C₂H₆. It is then directed to a separation column where all heavy organics (C₃₊) separate from the light organics (CO, CO₂, CH₄ and C₂H₆). The light organics are then passed through a reduction catalyst to convert CO and CO₂ to CH₄, and are then directed to a FID for detection and quantification. The heavy organics are backflushed off the holding column, passed through an oxidation catalyst, which convert all organics to CO₂, then through a reduction catalyst to convert CO₂ to CH₄ and then to a FID for detection and quantification.

The contents of the condensate traps are converted to CO₂ by combustion, collected in an evacuated tank (ICV) and analyzed by GC/FID.

Reviewed by:



CALCULATIONS

| | | | |
|----------------|-----------|----------|-------|
| Client: | AAA | Lab No.: | A 027 |
| Project No.: | 21-0883 | | |
| Unit Tested: | Inlet | | |
| Sampling Date: | 17-Mar-21 | | |
| Date tested: | 30-Mar-21 | | |

| Parameter | Symbol | Units | Run #1A | | Run #1B | |
|----------------------------|------------|-------------|------------------------|------------------------|------------------------|------------------------|
| | | | M25.1-CAU Inlet Run 1A | M25.1-CAU Inlet Run 1B | M25.1-CAU Inlet Run 1A | M25.1-CAU Inlet Run 1B |
| Client Sample ID | | | A 027 - 011 A | | A 027 - 011 B | |
| Lab ID | | | | | | |
| <u>Sample Tank</u> | | | | | | |
| Tank No | | | T-17 | T-10 | | |
| Sample Tank Volume | V_T | L | 9.643 | 9.646 | | |
| Barometric Pressure | P_b | mm Hg | 763 | 763 | | |
| Pre-test Pressure | P_{TI} | mm Hg (abs) | 4 | 4 | | |
| Pre-test Temperature | t_{TI} | °C | 22 | 22 | | |
| Abs. Pre-test Temperature | T_{TI} | °K | 295 | 295 | | |
| Post-test Pressure | P_{TS} | mm Hg (abs) | 550 | 588 | | |
| Post-test Temperature | t_{TS} | °C | 22 | 22 | | |
| Abs. Post-test Temperature | T_{TS} | °K | 295 | 295 | | |
| Final Pressure | P_{TF} | mm Hg (abs) | 928 | 930 | | |
| Dilution Factor | DF_T | | 1.71 | 1.60 | | |
| Concentration Methane | C_{CH4} | ppm | 15.06 | 15.42 | | |
| Carbon Monoxide | C_{CO} | ppm | 15.07 | 15.76 | | |
| NMNEO (noncond) | C_{SA} | ppm | 133.9 | 142.9 | | |
| Sample Volume | V_S | L | 6.780 | 7.254 | | |
| Methane in Tank | C_{CH4T} | ppm | 25.78 | 24.72 | | |
| Carbon Monoxide in Tank | C_{COt} | ppm | 25.79 | 25.27 | | |
| NMNEO (noncond) | C_{SAT} | ppm | 229.1 | 229.1 | | |

Condensate Recovery - Trap

| Parameter | Symbol | Units | M25.1-CAU Inlet Run 1A | | M25.1-CAU Inlet Run 1B | |
|-------------------------------|------------|-------------|------------------------|------------------------|------------------------|------------------------|
| | | | M25.1-CAU Inlet Run 1A | M25.1-CAU Inlet Run 1B | M25.1-CAU Inlet Run 1A | M25.1-CAU Inlet Run 1B |
| Client Sample ID | | | A 027 - 012 A | | A 027 - 012 B | |
| Lab ID | | | | | | |
| Trap No | | | 110 | 066 | | |
| ICV Tank No | | | ICV-1 | ICV-2 | | |
| Sample Tank Volume | V_{ICV} | L | 4.271 | 4.314 | | |
| Initial Pressure | P_I | mm Hg (abs) | 2 | 2 | | |
| Initial Temperature | T_I | °K | 298 | 298 | | |
| Final Pressure | P_F | mm Hg (abs) | 924 | 932 | | |
| Final Temperature | T_F | °K | 298 | 298 | | |
| Concentration CO ₂ | C_{CO2} | ppm | 191 | 179 | | |
| Sample Volume | V_{SICV} | L | 5.020 | 5.115 | | |
| Dilution Factor | DF_{ICV} | | 0.74 | 0.71 | | |
| NMNEO, Trap | C_T | ppm | 141.6 | 125.9 | | |
| TNMNEOC ($C_{SAT} + C_T$) | C | ppmC | <u>370.7</u> | <u>355.0</u> | | |

Calculations

$$V_S = k_1 * V_T * (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$k_1 = (273 + 15.56) / 760 = 0.3799$$

$$C_{SAT} = DF * C_{SA}$$

$$DF = (P_F/T_F) / (P_{TS}/T_{TS} - P_I/T_I)$$

$$DF_{ICV} = V_{SICV} / V_S$$

$$C_{CH4T} = DF * C_{CH4}$$

$$C_T = DF_{ICV} * C_{CO2}$$

CALCULATIONS

| | | | |
|----------------|-----------|----------|-------|
| Client: | AAA | Lab No.: | A 027 |
| Project No.: | 21-0883 | | |
| Unit Tested: | Inlet | | |
| Sampling Date: | 18-Mar-21 | | |
| Date tested: | 30-Mar-21 | | |

| Parameter | Symbol | Units | Run #2A M25.1-CAU Inlet Run 2C A 027 - 021 A | Run #2B M25.1-CAU Inlet Run 2D A 027 - 021 B |
|----------------------------|------------|-------------|--|--|
| <u>Client Sample ID</u> | | | | |
| <u>Lab ID</u> | | | | |
| <u>Sample Tank</u> | | | | |
| Tank No | | | T-1 | T-7 |
| Sample Tank Volume | V_T | L | 9.666 | 9.660 |
| Barometric Pressure | P_b | mm Hg | 763 | 763 |
| Pre-test Pressure | P_{TI} | mm Hg (abs) | 4 | 4 |
| Pre-test Temperature | t_{TI} | °C | 22 | 22 |
| Abs. Pre-test Temperature | T_{TI} | °K | 295 | 295 |
| Post-test Pressure | P_{TS} | mm Hg (abs) | 622 | 560 |
| Post-test Temperature | t_{TS} | °C | 22 | 22 |
| Abs. Post-test Temperature | T_{TS} | °K | 295 | 295 |
| Final Pressure | P_{TF} | mm Hg (abs) | 934 | 926 |
| Dilution Factor | DF_T | | 1.52 | 1.68 |
| Concentration Methane | C_{CH4} | ppm | 27.29 | 24.08 |
| Carbon Monoxide | C_{CO} | ppm | 29.92 | 26.76 |
| NMNEO (noncond) | C_{SA} | ppm | 218.05 | 243.47 |
| | | | | |
| Sample Volume | V_S | L | 7.693 | 6.917 |
| Methane in Tank | C_{CH4T} | ppm | 41.53 | 40.37 |
| Carbon Monoxide in Tank | C_{COI} | ppm | 45.53 | 44.87 |
| NMNEO (noncond) | C_{SAT} | ppm | 331.8 | 408.3 |

Condensate Recovery - Trap

| Client Sample ID | M25.1-CAU Inlet Run 2C | M25.1-CAU Inlet Run 2D |
|-------------------------------|------------------------|------------------------|
| Lab ID | A 027 - 022 A | A 027 - 022 B |
| Trap No | 059 | 085 |
| ICV Tank No | ICV-3 | ICV-4 |
| Sample Tank Volume | V_{ICV} | L |
| Initial Pressure | P_I | mm Hg (abs) |
| Initial Temperature | T_I | °K |
| Final Pressure | P_F | mm Hg (abs) |
| Final Temperature | T_F | °K |
| Concentration CO ₂ | C_{CO2} | ppm |
| Sample Volume | V_{SICV} | L |
| Dilution Factor | DF_{ICV} | |
| | | |
| NMNEO, Trap | C_T | ppm |
| TNMNEOC ($C_{SAT} + C_T$) | C | ppmC |

Calculations

$$V_S = k_1 * V_T * (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$k_1 = (273 + 15.56) / 760 = 0.3799$$

$$C_{SAT} = DF * C_{SA}$$

$$DF = (P_F/T_F) / (P_{TS}/T_{TS} - P_I/T_I)$$

$$DF_{ICV} = V_{SICV} / V_S$$

$$C_{CH4T} = DF * C_{CH4}$$

$$C_T = DF_{ICV} * C_{CO2}$$

CALCULATIONS

| | | | |
|----------------|-----------|----------|-------|
| Client: | AAA | Lab No.: | A 027 |
| Project No.: | 21-0883 | | |
| Unit Tested: | Inlet | | |
| Sampling Date: | 19-Mar-21 | | |
| Date tested: | 30-Mar-21 | | |

| Parameter | Symbol | Units | Run #3A | Run #3B |
|----------------------------|------------|-------------|------------------------|------------------------|
| Client Sample ID | | | M25.1-CAU Inlet Run 3A | M25.1-CAU Inlet Run 3B |
| Lab ID | | | A 027 - 031 A | A 027 - 031 B |
| <u>Sample Tank</u> | | | | |
| Tank No | | | 1 | 19 |
| Sample Tank Volume | V_T | L | 12.160 | 12.075 |
| Barometric Pressure | P_b | mm Hg | 763 | 763 |
| Pre-test Pressure | P_{TI} | mm Hg (abs) | 4 | 4 |
| Pre-test Temperature | t_{TI} | °C | 22 | 22 |
| Abs. Pre-test Temperature | T_{TI} | °K | 295 | 295 |
| Post-test Pressure | P_{TS} | mm Hg (abs) | 520 | 542 |
| Post-test Temperature | t_{TS} | °C | 22 | 22 |
| Abs. Post-test Temperature | T_{TS} | °K | 295 | 295 |
| Final Pressure | P_{TF} | mm Hg (abs) | 924 | 924 |
| Dilution Factor | DF_T | | 1.80 | 1.73 |
| Concentration Methane | C_{CH4} | ppm | 14.35 | 14.86 |
| Carbon Monoxide | C_{CO} | ppm | 17.21 | 17.66 |
| NMNEO (noncond) | C_{SA} | ppm | 153.49 | 154.04 |
| Sample Volume | V_s | L | 8.080 | 8.366 |
| Methane in Tank | C_{CH4T} | ppm | 25.87 | 25.69 |
| Carbon Monoxide in Tank | C_{COT} | ppm | 31.03 | 30.54 |
| NMNEO (noncond) | C_{SAT} | ppm | 276.7 | 266.4 |

Condensate Recovery - Trap

| Client Sample ID | | M25.1-CAU Inlet Run 3A | M25.1-CAU Inlet Run 3B |
|-------------------------------|------------|------------------------|------------------------|
| Lab ID | | A 027 - 032 A | A 027 - 032 B |
| Trap No | | 065 | 074 |
| ICV Tank No | | ICV-5 | ICV-6 |
| Sample Tank Volume | V_{ICV} | 4.880 | 5.180 |
| Initial Pressure | P_I | 2 | 2 |
| Initial Temperature | T_I | 298 | 298 |
| Final Pressure | P_F | 928 | 922 |
| Final Temperature | T_F | 298 | 298 |
| Concentration CO ₂ | C_{CO2} | 412 | 405 |
| Sample Volume | V_{SICV} | 5.761 | 6.075 |
| Dilution Factor | DF_{ICV} | 0.71 | 0.73 |
| NMNEO, Trap | C_T | 293.7 | 294.2 |
| TNMNEOC ($C_{SAT} + C_T$) | C | <u>570.4</u> | <u>560.6</u> |

Calculations

$$V_s = k_1 * V_T * (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$k_1 = (273 + 15.56) / 760 = 0.3799$$

$$C_{SAT} = DF * C_{SA}$$

$$DF = (P_F/T_F) / (P_{TS}/T_{TS} - P_I/T_I)$$

$$DF_{ICV} = V_{SICV} / V_s$$

$$C_{CH4T} = DF * C_{CH4}$$

$$C_T = DF_{ICV} * C_{CO2}$$

QA/QC SUMMARY
(Repeat Analysis)

Client Project No.: 21-0883
 Sampling Date: 17-Mar-21
 Analyzed Date: 30-Mar-21

Lab No.: A 027
 Unit Tested: Inlet

| Analyte | Sample ID | Area Count # 1 | Area Count # 2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
|----------------|---------------|-------------------|-------------------|-----------------------|----------|----------|---------------------|------------------------|
| Run #1A | | | | | | | | |
| CO | A 027 - 011 A | 26953 | 27158 | -0.76 | 15.02 | 15.13 | 15.07 | -0.76 |
| CH4 | A 027 - 011 A | 26622 | 26667 | -0.17 | 15.05 | 15.08 | 15.06 | -0.17 |
| CO2 | A 027 - 011 A | 3635663 | 3637639 | -0.05 | 397.6 | 397.8 | 397.7 | -0.05 |
| C2H6 | A 027 - 011 A | 95882 | 96191 | -0.32 | 11.09 | 11.13 | 11.11 | -0.32 |
| NMNEO | A 027 - 011 A | 2626026 | 2644497 | -0.70 | 133.42 | 134.36 | 133.89 | -0.70 |
| O2 by TCD | A 027 - 011 A | 2013853 | 2071567 | -2.87 | 12.2 | 12.6 | 12.4 | -2.83 |
| CO2 in ICV | A 027 - 012 A | 1746550 | 1750219 | -0.21 | 191.0 | 191.4 | 191.2 | -0.21 |
| Run #1B | | | | | | | | |
| CO | A 027 - 011 B | 28090 | 28477 | -1.38 | 15.65 | 15.87 | 15.76 | -1.37 |
| CH4 | A 027 - 011 B | 27128 | 27421 | -1.08 | 15.34 | 15.50 | 15.42 | -1.07 |
| CO2 | A 027 - 011 B | 3837501 | 3837309 | 0.01 | 419.7 | 419.7 | 419.7 | 0.01 |
| C2H6 | A 027 - 011 B | 96943 | 97398 | -0.47 | 11.2 | 11.3 | 11.2 | -0.47 |
| NMNEO | A 027 - 011 B | 2802248 | 2822374 | -0.72 | 142.4 | 143.4 | 142.9 | -0.72 |
| O2 by TCD | A 027 - 011 B | 2209839 | 2187797 | 1.00 | 13.4 | 13.3 | 13.3 | 1.00 |
| CO2 in ICV | A 027 - 012 B | 1633026 | 1632000 | 0.06 | 178.6 | 178.5 | 178.5 | 0.06 |

$Conc_{CO} \text{ in tank} = MeanConc_{CO} * DF$
 $Conc_{CO2} \text{ in tank} = MeanConc_{CO2} * DF$
 $Conc_{O2} \text{ in tank} = MeanConc_{O2} * DF$
 $Conc_{C2H6} \text{ in tank} = MeanConc_{C2H6} * DF$

QA/QC SUMMARY
(Repeat Analysis)

Client Project No.: 21-0883
 Sampling Date: 17-Mar-21
 Analyzed Date: 30-Mar-21

Lab No.: A 027
 Unit Tested: Inlet

| Analyte | Sample ID | Area Count # 1 | Area Count # 2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
|----------------|---------------|-------------------|-------------------|-----------------------|----------|----------|---------------------|------------------------|
| Run #2A | | | | | | | | |
| CO | A 027 - 021 A | 53609 | 53809 | -0.37 | 29.87 | 29.98 | 29.92 | -0.37 |
| CH4 | A 027 - 021 A | 48244 | 48320 | -0.16 | 27.27 | 27.32 | 27.29 | -0.16 |
| CO2 | A 027 - 021 A | 6843966 | 6838327 | 0.08 | 748.5 | 747.8 | 748.2 | 0.08 |
| C2H6 | A 027 - 021 A | 175885 | 176034 | -0.08 | 20.35 | 20.36 | 20.35 | -0.08 |
| NMNEO | A 027 - 021 A | 4289436 | 4294204 | -0.11 | 217.93 | 218.17 | 218.05 | -0.11 |
| O2 by TCD | A 027 - 021 A | 2288925 | 2309229 | -0.89 | 13.9 | 14.0 | 13.9 | -0.88 |
| CO2 in ICV | A 027 - 022 A | 6254850 | 6261127 | -0.10 | 684.0 | 684.7 | 684.4 | -0.10 |
| Run #2B | | | | | | | | |
| CO | A 027 - 021 B | 47453 | 48594 | -2.40 | 26.44 | 27.07 | 26.76 | -2.38 |
| CH4 | A 027 - 021 B | 42585 | 42597 | -0.03 | 24.07 | 24.08 | 24.08 | -0.03 |
| CO2 | A 027 - 021 B | 6155642 | 6154490 | 0.02 | 673.2 | 673.1 | 673.1 | 0.02 |
| C2H6 | A 027 - 021 B | 154277 | 154281 | 0.00 | 17.8 | 17.8 | 17.8 | 0.00 |
| NMNEO | A 027 - 021 B | 4793255 | 4790850 | 0.05 | 243.5 | 243.4 | 243.5 | 0.05 |
| O2 by TCD | A 027 - 021 B | 2103685 | 2073752 | 1.42 | 12.8 | 12.6 | 12.7 | 1.43 |
| CO2 in ICV | A 027 - 022 B | 5528579 | 5527554 | 0.02 | 604.6 | 604.5 | 604.6 | 0.02 |

$Conc_{CO} \text{ in tank} = MeanConc_{CO} * DF$
 $Conc_{CO2} \text{ in tank} = MeanConc_{CO2} * DF$
 $Conc_{O2} \text{ in tank} = MeanConc_{O2} * DF$
 $Conc_{C2H6} \text{ in tank} = MeanConc_{C2H6} * DF$

QA/QC SUMMARY
(Repeat Analysis)

Client Project No.: 21-0883
 Sampling Date: 17-Mar-21
 Analyzed Date: 30-Mar-21

Lab No.: A 027
 Unit Tested: Inlet

| Analyte | Sample ID | Area Count # 1 | Area Count # 2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
|----------------|---------------|-------------------|-------------------|-----------------------|----------|----------|---------------------|------------------------|
| Run #3A | | | | | | | | |
| CO | A 027 - 031 A | 31039 | 30740 | 0.96 | 17.29 | 17.13 | 17.21 | 0.97 |
| CH4 | A 027 - 031 A | 25630 | 25142 | 1.90 | 14.49 | 14.21 | 14.35 | 1.92 |
| CO2 | A 027 - 031 A | 5197019 | 5188992 | 0.15 | 568.4 | 567.5 | 567.9 | 0.15 |
| C2H6 | A 027 - 031 A | 57428 | 57660 | -0.40 | 6.6 | 6.7 | 6.7 | -0.40 |
| NMNEO | A 027 - 031 A | 3014584 | 3027496 | -0.43 | 153.2 | 153.8 | 153.5 | -0.43 |
| O2 by TCD | A 027 - 031 A | 1933367 | 1924105 | 0.48 | 11.7 | 11.7 | 11.7 | 0.48 |
| CO2 in ICV | A 027 - 032 A | 3774468 | 3759712 | 0.39 | 412.8 | 411.2 | 412.0 | 0.39 |
| Run #3B | | | | | | | | |
| CO | A 027 - 031 B | 32303 | 31087 | 3.76 | 18.00 | 17.32 | 17.66 | 3.84 |
| CH4 | A 027 - 031 B | 26429 | 26135 | 1.11 | 14.94 | 14.77 | 14.86 | 1.12 |
| CO2 | A 027 - 031 B | 5334843 | 5340504 | -0.11 | 583.4 | 584.0 | 583.7 | -0.11 |
| C2H6 | A 027 - 031 B | 59473 | 59399 | 0.12 | 6.9 | 6.9 | 6.9 | 0.12 |
| NMNEO | A 027 - 031 B | 3024928 | 3038993 | -0.46 | 153.7 | 154.4 | 154.0 | -0.46 |
| O2 by TCD | A 027 - 031 B | 1988203 | 1966855 | 1.07 | 12.1 | 11.9 | 12.0 | 1.08 |
| CO2 in ICV | A 027 - 032 B | 3704234 | 3704870 | -0.02 | 405.1 | 405.2 | 405.1 | -0.02 |

$Conc_{CO} \text{ in tank} = MeanConc_{CO} * DF$
 $Conc_{CO2} \text{ in tank} = MeanConc_{CO2} * DF$
 $Conc_{O2} \text{ in tank} = MeanConc_{O2} * DF$
 $Conc_{C2H6} \text{ in tank} = MeanConc_{C2H6} * DF$

SAMPLE INVENTORY REPORT

Method 25.1 Sampling Train

| | | | |
|--------------|---------|----------------|-----------|
| Project No.: | 21-0883 | Lab No.: | A 027 |
| Client: | AAA | Sampling Date: | 17-Mar-21 |
| Unit Tested: | Inlet | | |

| Laboratory ID | Client ID | Component ID |
|----------------|------------------------|--------------|
| Run #1A | | |
| A 027 - 011 A | M25.1-CAU Inlet Run 1A | Tank # T-17 |
| A 027 - 012 A | M25.1-CAU Inlet Run 1A | Trap # 110 |
| Run #1B | | |
| A 027 - 011 B | M25.1-CAU Inlet Run 1B | Tank # T-10 |
| A 027 - 012 B | M25.1-CAU Inlet Run 1B | Trap # 066 |
| Run #2A | | |
| A 027 - 021 A | M25.1-CAU Inlet Run 2C | Tank # T-1 |
| A 027 - 022 A | M25.1-CAU Inlet Run 2C | Trap # 059 |
| Run #2B | | |
| A 027 - 021 B | M25.1-CAU Inlet Run 2D | Tank # T-7 |
| A 027 - 022 B | M25.1-CAU Inlet Run 2D | Trap # 085 |
| Run #3A | | |
| A 027 - 031 A | M25.1-CAU Inlet Run 3A | Tank # 1 |
| A 027 - 032 A | M25.1-CAU Inlet Run 3A | Trap # 065 |
| Run #3B | | |
| A 027 - 031 B | M25.1-CAU Inlet Run 3B | Tank # 19 |
| A 027 - 032 B | M25.1-CAU Inlet Run 3B | Trap # 074 |

Lot # A027



CHAIN OF CUSTODY RECORDS

INVOICE TO: _____

REPORT TO: **ALLIANCE Source Testing**

10602 Walker St.
Cypress, CA 90630

(714) 889-4000 Fax (714) 889-7030

Doug.Williams@stacktest.com

ATTN: ap@stacktest.com

PO # 2021-0883

Turnaround Time

Standard: Other: _____

Rush: _____

Depends on # of Samples
5 - 10 days
3 - 7 days

Return or Dispose

REMARKS

| Job # | Sample Date | Sample Time | Sample Identification | Client | All American | Unit Information | Location | Type Of Sample | | No of Containers | ANALYSIS REQUESTED | | | | REMARKS |
|---------|-------------|-------------|---------------------------------|--------------|--------------|---------------------------|----------|----------------|-----|------------------|--------------------|-----------|-----------|-----------|---------------------|
| | | | | | | | | LIQUID | GAS | | SOLID | 25-1 Tank | 25-2 Tank | 25-3 Tank | |
| 21-0883 | 3/17 | 6:15 | M25.1 - CAU Inlet TRAP - Run 1A | Asst'n Keogh | APB | Tank: T-17 Trap: TP17 | CAU | X | X | 2 | X | X | X | X | Hold 2A/2B samples |
| | 3/17 | 7:15 | M25.1 - CAU Inlet TANK - Run 1B | | | Tank: T-10 Trap: TP066 | | X | X | 2 | X | X | X | X | Low vacuum canister |
| | 3/18 | 10:16 | M25.1 - CAU Inlet TRAP - Run 2A | | | Tank: T-1 Trap: 059 | | X | X | 2 | X | X | X | X | |
| | 3/18 | 11:16 | M25.1 - CAU Inlet TANK - Run 2B | | | Tank: T-7 Trap: 085 | | X | X | 2 | X | X | X | X | |
| | 3/19 | 4:00 | M25.1 - CAU Inlet TRAP - Run 3A | | | Tank: 1 Trap: 065 | | X | X | 2 | X | X | X | X | |
| | 3/19 | 4:00 | M25.1 CAU Inlet TANK - Run 3B | | | Tank: 14 Trap: 074 | | X | X | 2 | X | X | X | X | |
| | 3/17 | 6:15 | M25.3 CAU Outlet TRAP - Run 1A | | | Tank: 54083 Trap: 1 | | X | X | 2 | X | X | X | X | |
| | 3/17 | 7:15 | M25.3 CAU Outlet TANK - Run 1B | | | Tank: A111 Trap: 2 | | X | X | 2 | X | X | X | X | |
| | 3/18 | 10:16 | M25.3 CAU Outlet TRAP - Run 2A | | | Tank: 54116 Trap: 7 | | X | X | 2 | X | X | X | X | |
| | 3/18 | 10:16 | M25.3 CAU Outlet TANK - Run 2B | | | Tank: 5050 Trap: 8 | | X | X | 2 | X | X | X | X | |
| | 3/19 | 4:00 | M25.3 CAU outlet TRAP - Run 3A | | | Tank: A127 Trap: 11 | | X | X | 2 | X | X | X | X | |
| | 3/19 | 4:00 | M25.3 CAU Outlet TANK - Run 3B | | | Tank: 777 Trap: 12 | | X | X | 2 | X | X | X | X | |

Hold 2A/2B samples
Low vacuum canister

Hold 2A/2B samples
Low vacuum canister

Received by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00

Relinquished by: _____
Date: 3/19 Time 15:00



Standard Receipt
Sample LOG in Checklist

Project No: 21-0883

Method: m25.1 / m25.3

Lab ID: 1024

Sampling Date: 3/17 - 3/19

Location: AAA Int: _____

Date & Time Rc'd: 3/22/21 4:31

Location: LAB Int: 20

Arrived By: (circle) FedEx UPS Drop Off (Int) DU Other _____

Condition of Package(s): (comment): OK Package Type: Box Cooler Other: _____

Number of Sample Container(s): 12, 12 Correct Containers (per Method): Y N

Preservation: (circle) ICE DryICE ICEPacks None

Sample Conditions:

Sample Temp (C): 4.2

Ambient Temp (C): 21

Sample Temp (C): -9.9

Filter Condition: -

PH: _____

Components Sealed: Y N

Sample Recovery Completed On: (date & time) _____

Recovered In: (circle) Field Lab Other _____

Silica Gel Condition: _____

Tedlar Bags -

Condensation: Y N

Comments:

Container(s) Requested: Glass _____ Plastic _____

Additional Comments:

CHROMATOGRAM
TEST SAMPLES

Title : C:\brukerw\data\2021\mar_21\2021-03-30_15-27-04_a_027 - 011_a_inj.1 - master_sqand 25.3 ml loop 05-05-20_sqandrange5 - copy.run
Method File : C:\brukerw\methods\master_sqand 25.3 ml loop 05-05-20_sqandrange5 - copy.mth
Sample ID : A 027 - 011 A

Injection Date: 2021-03-30 15:27 Calculation Date: 2021-03-30 15:47

Operator : Douglass W.
Excitation : DESKTOP-EVLSB
Modem : Lotus N90C
Channel : Front - FID

Detector Type: 4Xx-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCLON Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width (1/2) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-------------|--------------|
| 1 | Az/CO | 0.0000 | 2.537 | 0.024 | 36475 | VV | 1.7 | |
| 2 | Carbon Diox1 | 395.5584 | 3.775 | 0.335 | 3635663 | BB | 16.3 | |
| 3 | Ethane | 10.1596 | 7.495 | 0.119 | 95862 | BB | 26.3 | |
| Totals: | | | | | | | 0.478 | 3768020 |

Total Unidentified Counts : 242964 counts

Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 17 microVolts - monitored before this run

Manual Injection

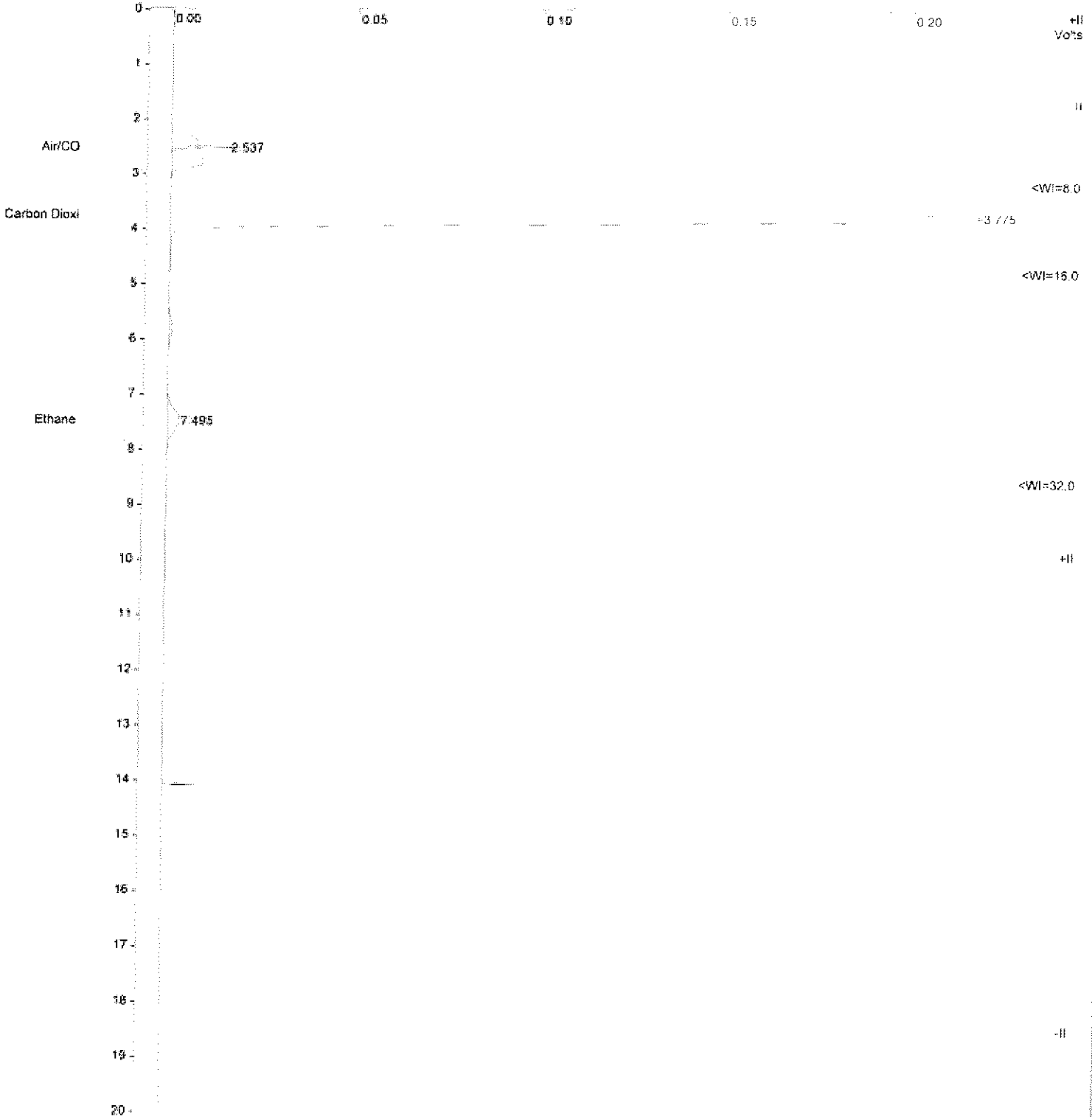
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30 15:27-04 a 027 - 011 a inj 1 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\SW\Methods\Master SQAMND 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.txt
Sample ID : A 027 - 011 A

Injection Date: 2021-03-30 15:27 Calculation Date: 2021-03-30 15:47

Operator : Douglass M. Detector Type: 4EX-GC (1000 Volts)
Workstation: OFSKTOP-6V15E Bus Address : 44
Instrument : Lotus MMOC Sample Rate : 5.00 Hz
Channel : Front - FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 5.0.1 ** 02057-3701-AB1-413C **

Chart Speed = 0.09 cm/min Attenuation = 1 Zero Offset = 25
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\sw\data\2021\mar_21\2021-03-30 15-27-04 a 027 - 011 a inj 1 - master.ssqdmd 25.3 : ml loop 05 05-20 _ceddlauges - copy.run:
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master.ssqdmd 25.3 ml loop 05-05-20 _ceddlauges copy-middle.mth
Sample ID : A 027 - 011 A
Injection Date: 2021-03-30 15:27 Calculation Date: 2021-04-06 10:07
Operator : Douglass W.
Workstation: DESKTOP-EVL5B
Instrument : Lotus NMOc
Channel : Middle = FID

** MMS 8.0.1 for SCION Version 8.0.1 ** C2057-3701-AB1-415C **
Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 16.50 | 5.432 | 0.072 | 26622 | BV | 16.3 | |
| 2 | Carbon Monox | 15.58 | 6.149 | 0.284 | 26953 | VB | 20.8 | |
| 3 | NONEOC | 129.90 | 16.545 | -0.634 | 2626026 | BB | 66.1 | |
| Total: | | 161.98 | | -0.278 | 2679601 | | | |

Total Unidentified Counts : 4520 counts
Detected Peaks: 12 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Vector: 1
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 15 microVolts -- fixed value
Noise (monitored before this run): 19 microVolts
Manual Injection

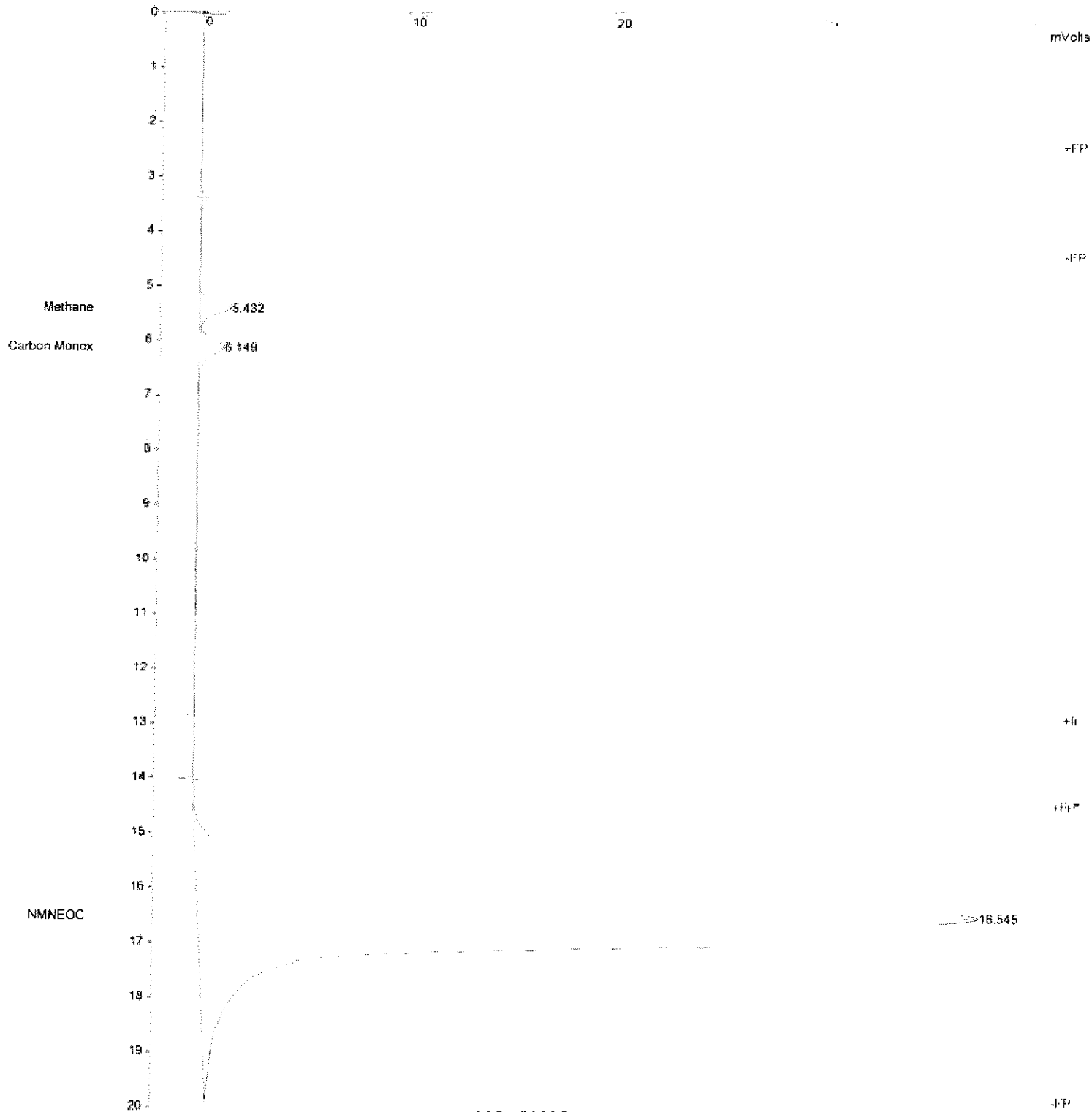
Title :
Run File : c:\bruker\sw\data\2021\max_2\2021-03-30_15-27-04 a 027 - 011 a inj 1 - master sqcmd 25.3 3 ml loop 05-05-20_tdrange5 - copy.run
Method File : 2021-03-30_15-27-04 a 027 - 011 a inj 1 - master sqcmd 25.3 3 ml loop 05-05-20_tdrange5 - copy-middle.mth
Sample ID : A 027 - 011 A

Injection Date: 2021-03-30 15:27 Calculation Date: 2021-04-06 10:07

Operator : Douglass W. Detector Type: 4XX-GC (1300 Volts)
Workstation: DESKTOP-6V753 Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 20.000 min

** MWS 8.0.1 for SCIEN Version 8.0.1 ** 02057-3761-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 08
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : C:\Bruker\MSData\2021\Mar_21\2021_03-30_15-30-17_8_027 - 011_a_1n2_2 - master_sqcmd 05.3 ml Loop 05-05-20_FCDrange5 - copy.run
Method File : C:\Bruker\MSData\2021\Mar_21\2021_03-30_15-30-17_8_027 - 011_a_1n2_2 - master_sqcmd 05.3 ml Loop 05-05-20_FCDrange5 - Copy.rnh
Sample ID : A 027 - 011 A

Injection Date: 2021-03-30 15:53 Calculation Date: 2021-03-30 16:13

Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lottas NRCOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ARI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Seq. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.0900 | 2.537 | 0.024 | 36521 | VV | 1.7 | |
| 2 | Carbon Diox1 | 395.7684 | 3.774 | 0.334 | 3637639 | BB | 16.3 | |
| 3 | Ethane | 10.1918 | 7.494 | 0.118 | 96191 | BB | 26.3 | |
| Total: | | 405.9602 | 0.476 | | 3770351 | | | |

Total Unidentified Counts : 242546 counts

Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (Used): 8 microVolts - monitored before this run

Manual Injection

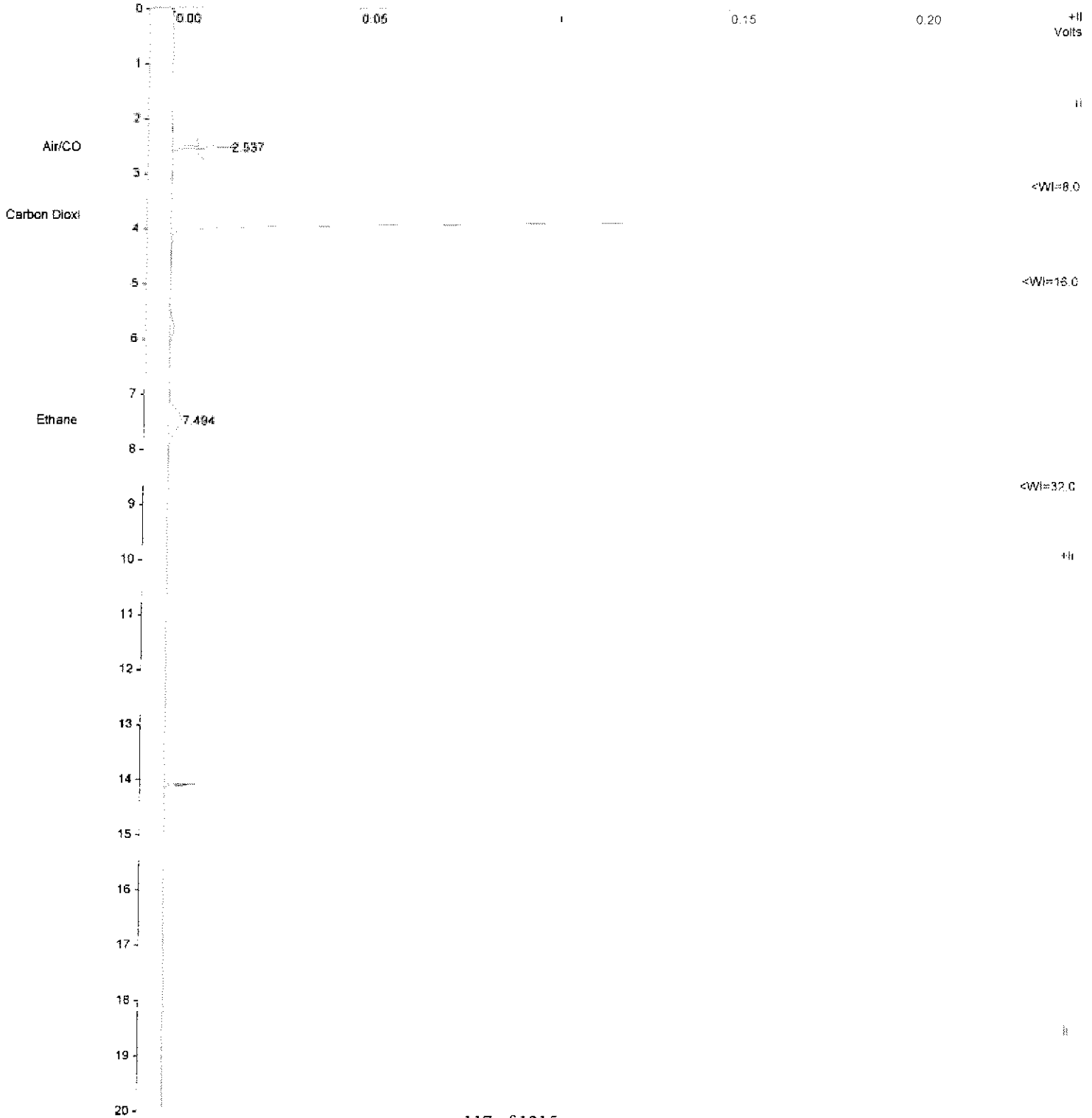
Title :
Run File : c:\brukerw\data\2021\mar_21\2021-03-30 15-53-17 a 027 - 011 a inj 2 - master sqammd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\brukerw\methods\Master SQAMMD 25.3 3 ml loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 011 A

Injection Date: 2021-03-30 15:53 Calculation Date: 2021-03-30 16:13

Operator : Douglass W. Detector Type: 4MX-GC (1000 Volts)
Workstation: DESKTOP-6VLSR Bus Address : 44
Instrument : Lotus MWCC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MGS 8.0.1 for SCTX Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 28
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerms\data\2021\mar_21\2021-03-30 15-53-17 a 027 - 011 1 inj 2 - master sqamnd 25.3 3 ml Loop 05-05-20 _cdtrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqamnd 25.3 3 ml Loop 05-05-20 _cdtrange5 - copy_misfile.mth
Sample ID : A 027 - 011 A

Injection Date: 2021-03-30 15:53 Calculation Date: 2021-04-06 10:07

Operator : Daiglass W
Vial Location : DISKTOP-6VLS8
Injection : Lotus NROC
Channel : Middle = FID

Detector Type: 4XX-GC (1000 Vols) Bus Address : 44
Sample Rate : 5.00 Hz Run Time : 20.000 min

** MSMS 6.0.1 for SCION version 6.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 16.53 | 5.832 | 0.072 | 26667 | SV | 16.3 | |
| 2 | Carbon Monox | 15.70 | 6.150 | 0.285 | 27158 | VR | 20.6 | |
| 3 | N2O | 130.82 | 16.548 | -0.631 | 264497 | BB | 66.1 | |
| Totals: | | 163.05 | | -0.274 | 269832 | | | |

Total Unidentified Counts : 4533 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 12 microVolts

Manual injection

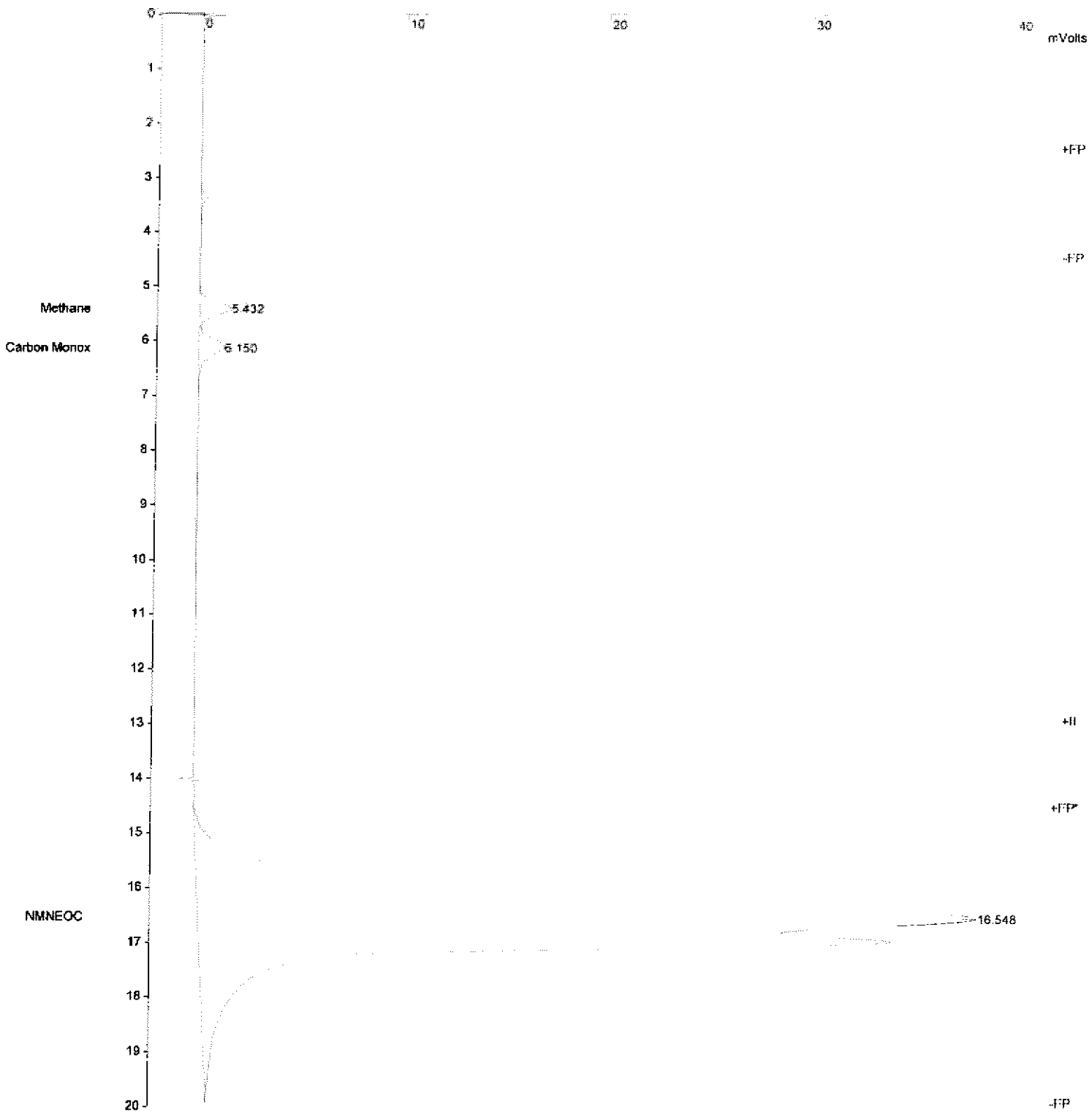
Title :
Run File : c:\bzukerws\data\2021\mar_21\2021-03-30 15-53-17 a 027 - 011 a inj 2 - master sqand 25.3 3 ml loop 05-05-20_tdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqand 25.3 3 ml loop 05-05-20_tdrange5 - copy-middle.mth
Sample ID : A 027 - 011 A

Injection Date: 2021-03-30 15:53 Calculation Date: 2021-04-06 10:07

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ARI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerw\data\2021\mar_21\2021-03-30_18-19-37_5_027 - 011_b inj 1 - master.ssq.ms 25.3 ml Loop 05-05-20...vcdrange5 - copy.run
Method File : C:\brukerw\methods\master_sq.ms 25.3 ml Loop 05-05-20_ICDrange5 - Copy.mth
Sample ID : A 027 - 011 B

Injection Date: 2021-03-30 16:19 Calculation Date: 2021-03-30 16:19

Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Locus NVOCC
Channel : Front - FID

Detector Type: 4XX-CC (1000 Volts)
Bus Address : 44

Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Width (sec) | Sep. Code | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-------------|-----------|--------------|
| 1 | Alr/CO | 0.0000 | 2.538 | 0.025 | 37952 | VV | 1.8 | |
| 2 | Carbon Dioxi | 417.5193 | 3.777 | 0.337 | 3837501 | BB | 16.3 | |
| 3 | Ethane | 10.2715 | 7.496 | 0.122 | 96943 | BB | 26.3 | |
| Totals: | | | | 0.184 | 3972396 | | | |

Total Unidentified Counts : 248376 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 7 microVolts - monitored before this run

Manual injection

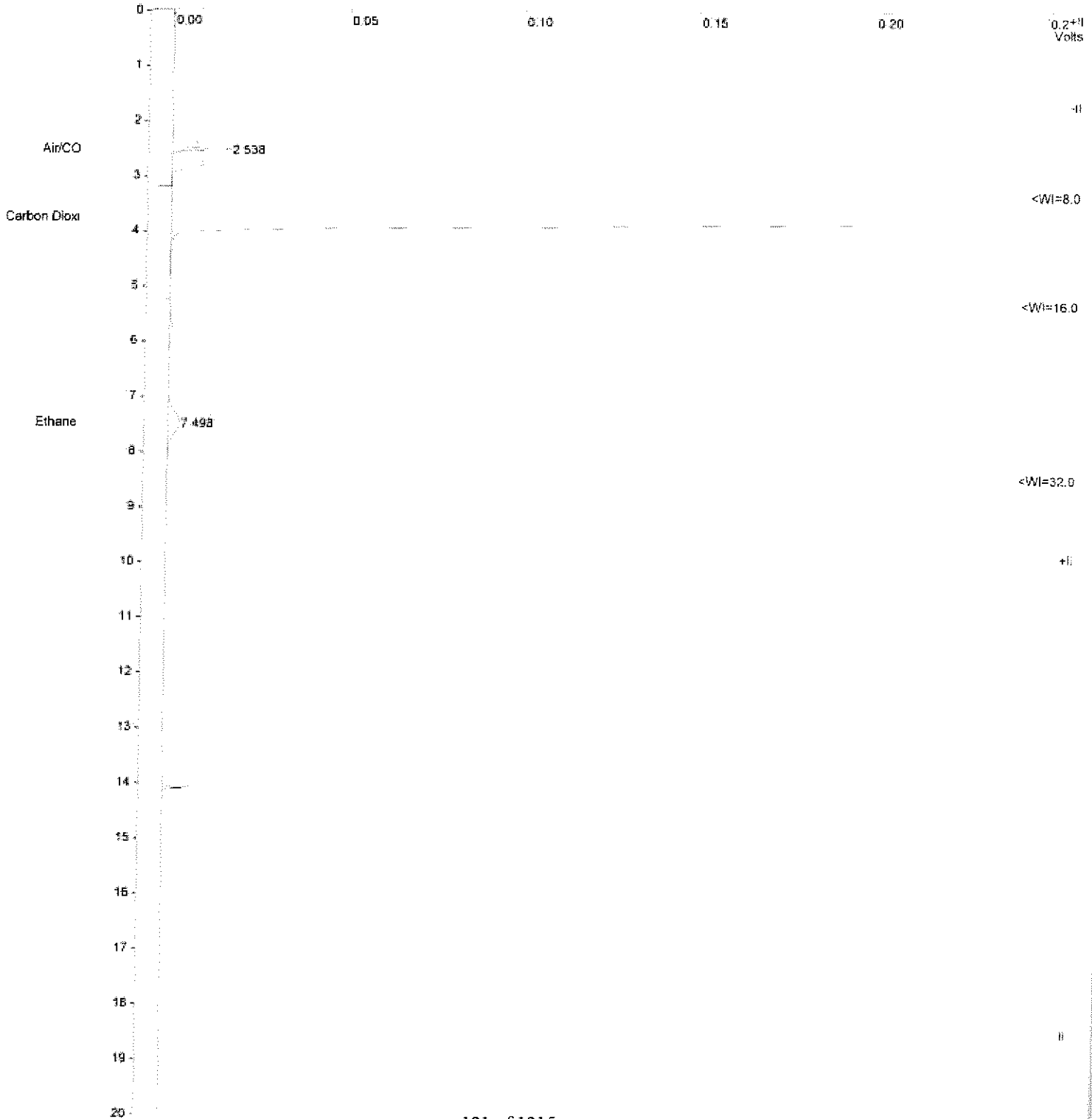
Title :
 Run File : c:\brukerws\data\2021\mar_21\2021-03-30 16-19-37 a 027 - 011 b inj 1 - master sqamcd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\BrukerWS\methods\Master SQAMCD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
 Sample ID : A 027 - 011 B

Injection Date: 2021-03-30 16:19 Calculation Date: 2021-03-30 16:30

Operator : Douglas W. Detector Type: FID-DC (1000 Volts)
 Workstation: 023670P-6035B Run Address : 44
 Instrument : Lotus NWC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AG1-4150 **

Chart Speed = 0.59 cm/min Attenuation = 1 Zero Offset = 24
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : C:\Bruker\MS\4221\mar_21\2021-03-30 16-19-37 a 027 - 011 b (n) 1 - master.sqamc 25.3 3 ml loop 05-05-20 ... tedrange5 - copy.run
Method File : 2021-03-30 16-27-04 a 027 - 011 a (n) 1 - master.sqamc 25.3 3 ml loop 05-05-20 ... tedrange5 - copy-mies1a.mn
Sample ID : A 027 - 011 B

Injection Date: 2021-03-30 16:19 Calculation Date: 2021-04-06 10:08

Operator : Douglass W. Detector Type: 422-GC (1000 Vcl/s)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSMS 9.0.1 for SCIION Version 8.0.1 ** 92057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------|
| 1 | Methane | 16.81 | 5.432 | 0.072 | 27128 | BY | 16.3 | ----- |
| 2 | Carbon Monox | 16.23 | 6.151 | 0.286 | 28090 | VB | 20.7 | ----- |
| 3 | NMOC | 138.62 | 16.535 | -0.644 | 2602248 | BB | 65.2 | ----- |
| Totals: | | 171.66 | | -0.296 | 2857466 | | | ----- |

Total Unidentified Counts : 4717 counts

Detected Peaks: 0 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 20 microVolts

Manual Injection

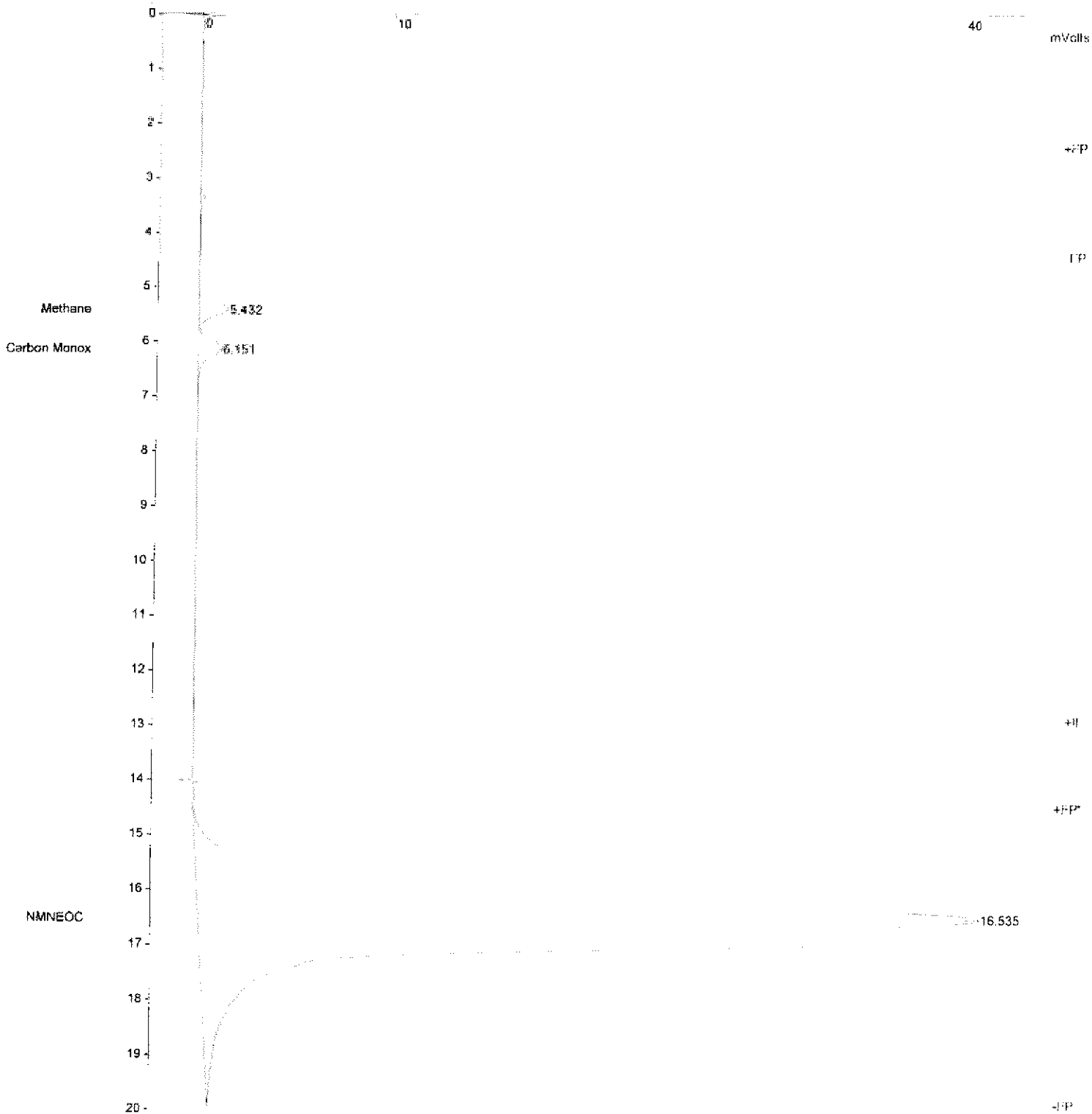
Title :
Run File : c:\bruker\ms\data\2021\Mar 21\2021-03-30 16-19-37 a 027 - 011 b inj 1 - master sqqpr 25.3 3 ml loop 05-05-20 _cdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqqmd 25.3 3 ml loop 05-05-20 _cdrange5 - copy-middle.rch
Sample ID : A 027 - 011 B

Injection Date: 2021-03-30 16:19 Calculation Date: 2021-04-06 10:08

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V153 Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = F19 Run Time : 20.000 min

** MSMS 8.3.1 for SCION Version 8.3.1 ** 02057-3701-AB1-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 08
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2021-03-30 16:45 Calculation Date: 2021-03-30 17:05
 Operator : Douglas W. Detector Type: 4XX-CC (1000 Volts)
 Workstation: DESKTOP-6VL5B Bus Address : 44
 Instrument : Lotus NNOC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** C2057-3701-ABI-415C **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (Counts) | Seq. Code | Width (Sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.0000 | 2.538 | 0.025 | 37596 | VV | 1.7 | |
| 2 | Carbon Dioxide | 417.4994 | 3.776 | 0.396 | 3837309 | VB | 16.3 | |
| 3 | Ethane | 10.3197 | 7.496 | 0.120 | 97398 | EB | 26.3 | |
| Totals: | | 427.8191 | 0.481 | | 3972303 | | | |

Total Unidentified Counts : 247959 counts

Detected Peaks: 10 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 5

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 7 microVolts - monitored before this run

Manual Injection

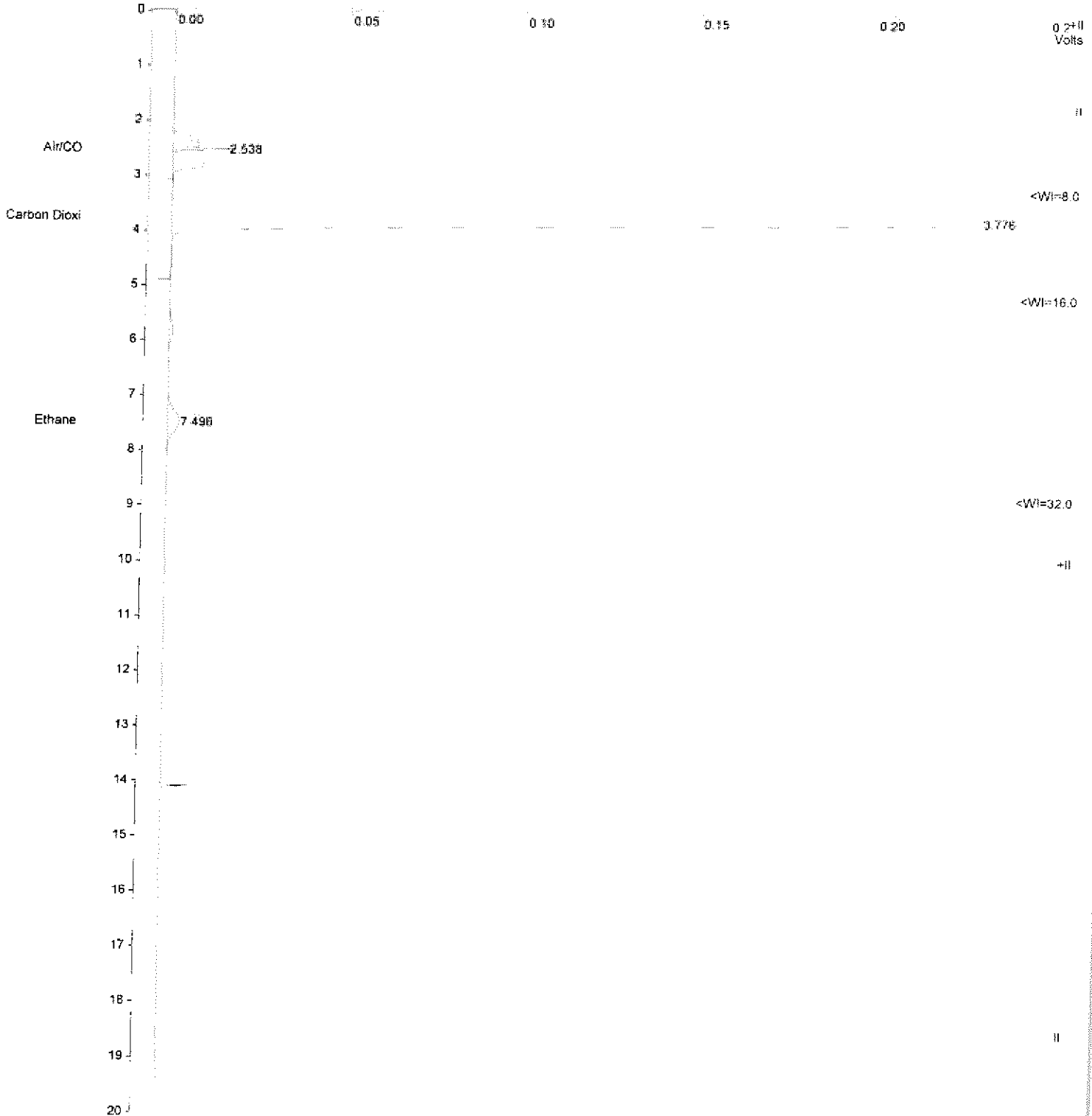
Title :
 Run File : c:\bruker\ms\data\2021\mar_21\2021-03-30 16-45-50 a 027 - 011 b inj 2 - master soeqmd 25.3 ml loop 05-05-20 tedrange5 - copy.run
 Method File : C:\Bruker\MS\methods\Master SOEQMD 25.3 ml Loop 05-05-20 TEDrange5 - Copy.mth
 Sample ID : A 027 - 011 B

Injection Date: 2021-03-30 16:45 Calculation Date: 2021-03-30 17:05

Operator : Douglass W. Detector Type: 4XX-GC (1300 Volts)
 Workstation: DESKTOP-SVL59 Bus Address : 44
 Instrument : Lotus NMGC Sample Rate : 5.00 Hz
 Channel : Front - FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3761-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 23
 Start Time = 3.000 min End Time = 20.000 min Min / Tick = 1.00



Title : S:\bruker\data\2021\May_21\2021-03-30_16-45-50 a 027 - 011 b inj 2 - master sqagmd 25.3 3 ml loop 05-05-20 ...
Method File : 2021-03-30_18-27-04 a 027 - 011 a inj 1 - master sqagmd 25.3 3 ml loop 05-05-20 ...
Sample ID : A 027 - 011 b

Injection Date: 2021-03-30 16:45 Calculation Date: 2021-04-06 10:08

Operator : Poughless W.
Workstation: DESKTOP-6VL5B
Instrument : Lotus NMO
Channel : Middle = FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Kz
Run Time : 20.000 min

** MSWS 9.0.1 for SCIION Version 9.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Time (min) | Time Offset (min) | Area (counts) | Rep. Code | Int. Code | Start Count |
|----------|--------------|---------------|------------|-------------------|---------------|-----------|-----------|-------------|
| 1 | Methane | 16.99 | 5.434 | 0.074 | 27421 | 9V | 16.3 | |
| 2 | Carbon Monox | 16.46 | 6.154 | 0.285 | 28477 | VB | 20.7 | |
| 3 | NMBOC | 139.62 | 16.552 | -0.627 | 282274 | EB | 65.6 | |
| Totals: | | 173.07 | | -0.264 | 2878272 | | | |

Total Unidentified Counts : 4443 counts

Detected Peaks: 9 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 6 microVolts

Manual Injection

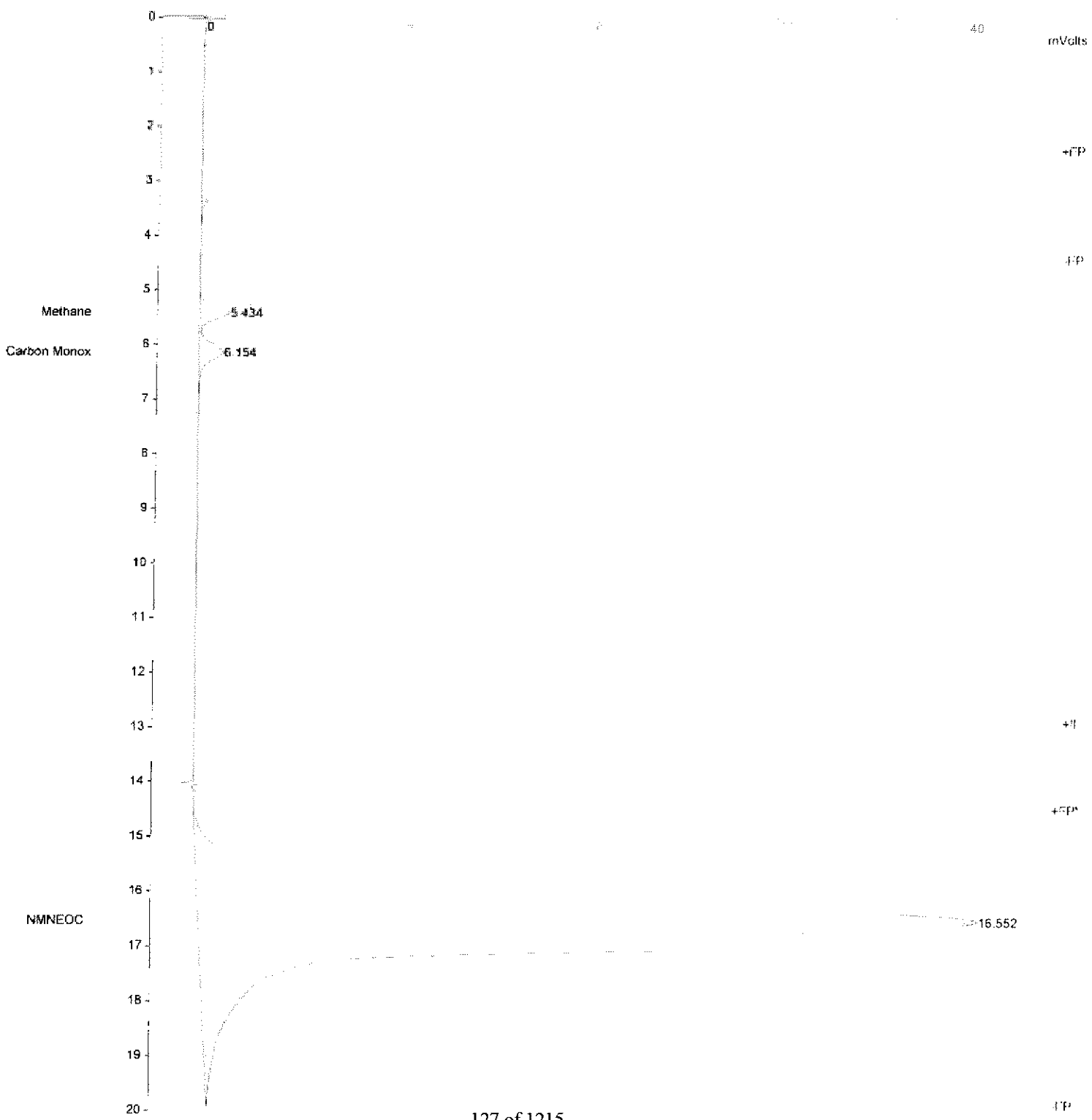
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30_16-45-50_a_027 - 011 b inj 2 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30_16-27-04_a_027 - 011 a inj 1 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 011 B

Injection Date: 2021-03-30 16:45 Calculation Date: 2021-04-06 10:39

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-EVL5B Bus Address : 44
Instrument : Lotus N90C Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.300 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukers\data\2021\mar_21\2021-03-30_17-12-09_4_027 - 021_# 1.n11 - master_sqcmd 25.3 3 ml loop 25-05-20_sqdrange5 - copy.run
Run File : C:\brukers\data\2021\mar_21\2021-03-30_17-12-09_4_027 - 021_# 1.n11 - master_sqcmd 25.3 3 ml loop 25-05-20_sqdrange5 - copy.run
Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:12 Calculation Date: 2021-03-30 17:32
Operator : Douglass W. Detector Type: 4XX-SC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 4
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 9.0.1 for SCIION Version 9.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (DRC) | Ret. Time (min) | Time Offset (min) | Area (Counts) | Area Code | Width (sec) | Status Codes |
|----------|--------------|--------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.000 | 2.538 | 0.025 | 75804 | VV | 1.8 | |
| 2 | Carbon Diox1 | 744.7908 | 3.775 | 0.335 | 6843966 | BB | 16.3 | |
| 3 | Ethane | 18.6415 | 7.498 | 0.122 | 175885 | BB | 26.3 | |
| Totals: | | 763.4323 | 0.482 | | 7095655 | | | |

Total Unidentified Counts : 476684 counts

Detected Peaks: 8 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 10 microVolts - monitored before this run

Manual Injection

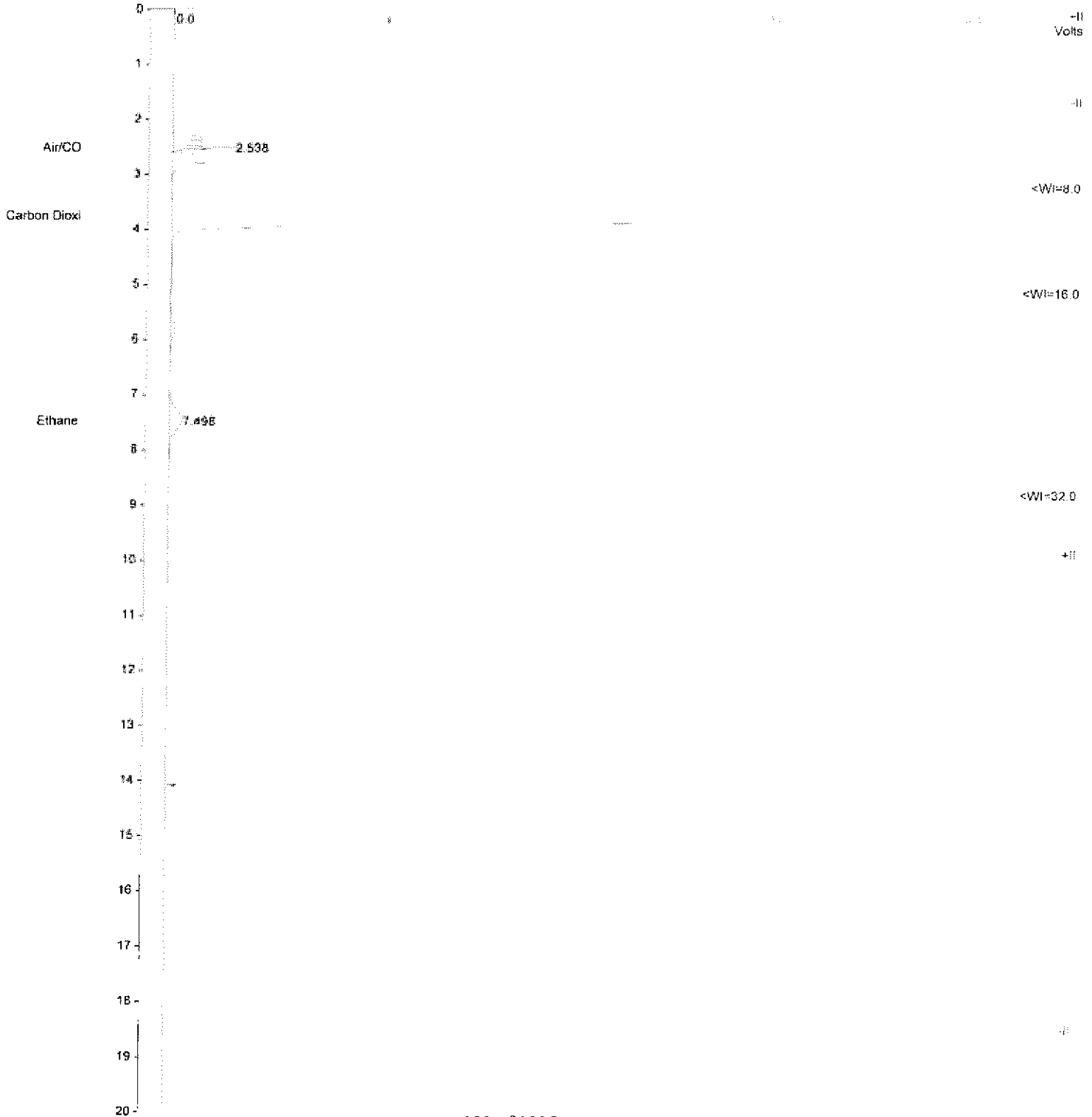
Title :
 Run File : c:\bruker\ms\data\2021\mar_21\2021-03-30 17-12-09 a 027 - 021 a in\1 - master sqamqd 25.3 3 ml loop 05-05-20 todrange5 - copy.xur
 Method File : C:\Bruker\MS\methods\Master_SQAMQD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
 Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:12 Calculation Date: 2021-03-30 17:32

Operator : Douglas W. Detector Type: 4MX-GC (1000 Volts)
 Workstation: DESKTOP-6VLS8 Bus Address : 44
 Instrument : Lotus NCCC Sample Rate : 5.00 Hz
 Channel : Front - FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 49
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Nbruker\data\2021\Mar_21\2021-03-30 17-12-09 a 027 -- 021 a inj 1 - mester.ssqdmd 25.3 3 ml loop 05-05-20 _bedrange5 - copy.fun
Run File : 2021-03-30 15-27-04 a 027 -- 011 a inj 1 - mester.ssqdmd 25.3 3 ml loop 05-05-20 _bedrange5 - copy.middle.mtr
Method File : 2021-03-30 15-27-04 a 027 -- 011 a inj 1 - mester.ssqdmd 25.3 3 ml loop 05-05-20 _bedrange5 - copy.middle.mtr
Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:12 Calculation Date: 2021-04-06 10:09

Operator : Douglass W.
Workstation : DESKTOP-6V75B
Instrument : Natus N900C
Channel : Middle = FID

Detector Type: VXX-SC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Offset (min) | Area (counts) | Width | Status Codes |
|----------|--------------|---------------|-----------------|--------------|---------------|---------|--------------|
| 1 | Methane | 29.30 | 5.434 | 0.074 | 48244 | 9V 16.3 | |
| 2 | Carbon Monox | 30.98 | 6.151 | 0.286 | 53609 | VB 20.5 | |
| 3 | NMECC | 212.19 | 16.968 | -0.211 | 4289436 | BB 71.5 | |
| Totals: | | 273.07 | 0.149 | | 4391289 | | |

Total Unidentified Counts : 4902 counts

Detected Peaks: 11 Rejected Peaks: 1 Identified Peaks: 3

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts USB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 36 microVolts

Manual Injection

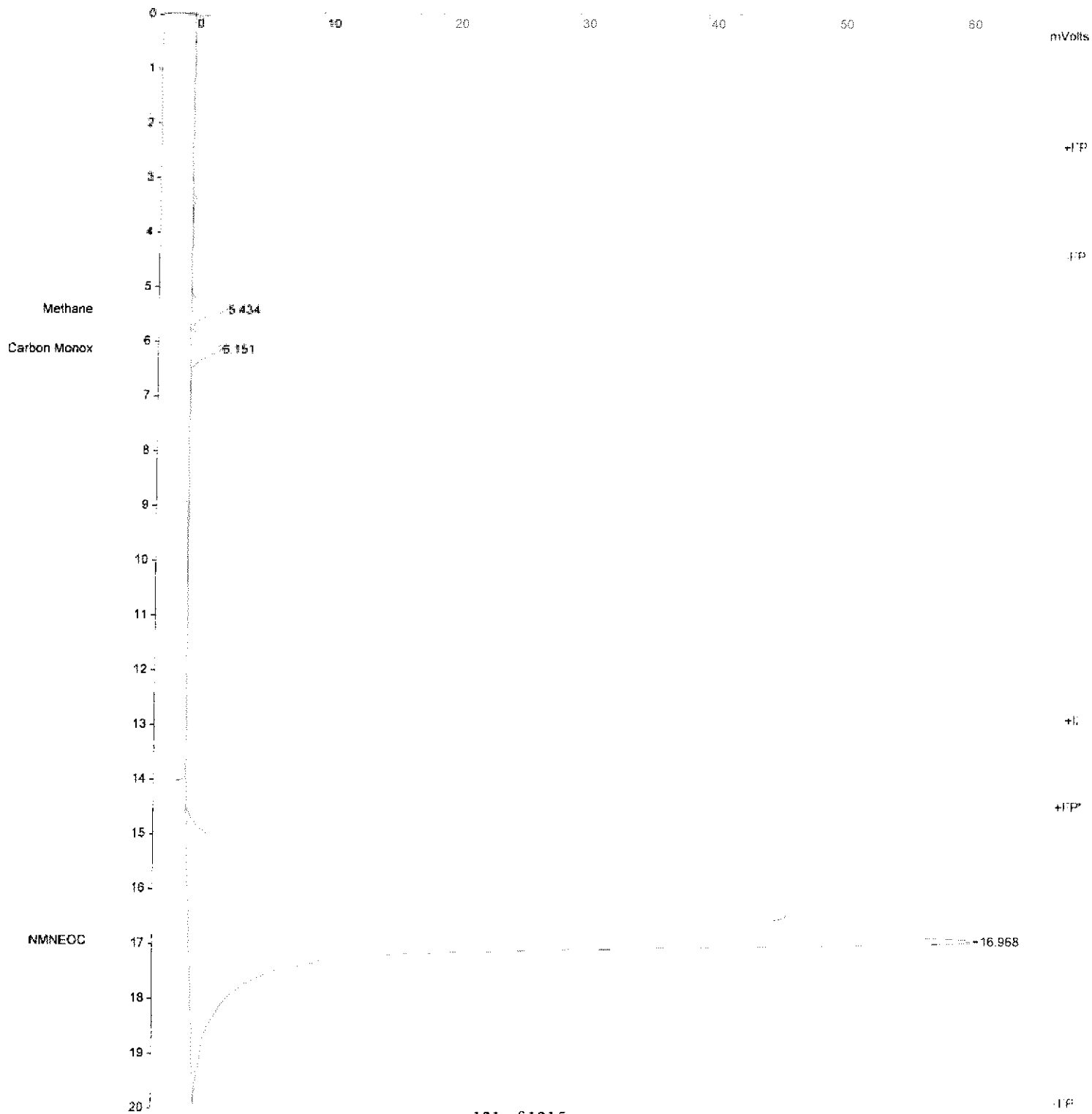
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30_17-12-09_a_027 - 021_a_inj_1 - master_sqapnd_25.3_3_ml_loop_05-05-26_tcdrange5 - copy.run
Method File : 2021-03-30_15-21-04_a_027 - 011_a_inj_1 - master_sqapnd_25.3_3_ml_loop_05-05-26_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:12 Calculation Date: 2021-04-06 10:09

Operator : Douglass W. Detector Type: 4EX-GC (11300 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SICTON Version: 8.0.1 ** 02037-3701-AB1-415C **

Chart Speed = 0.99 cm/MLN Attenuation = 1 Zero Offset = 15
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerw\data\2021\mar_21\2021-03-30 17-48-22 8 027 - 021.a and 8 - master sqdmd 25.3 3 ml loop 05-05-20_usdrange5 - copy.run
Method File : C:\brukerw\methods\MasterF_SOACMD 25.3 ml loop 05-05-20_usdrange5 - Copy.mth
Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:38 Calculation Date: 2021-03-30 17:58

Operator : Daughlass W.
Workstation: BEKFCOP-5V15B
Instrument : Peaks M90C
Channel : FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCIION version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Code |
|----------|-------------|---------------|-----------------|--------------|---------------|-----------|-------------|-------------|
| 1 | EtOH | 0.0000 | 2.538 | 0.025 | 75140 | VV | 1.7 | |
| 2 | Carbon Diox | 744.1768 | 3.777 | 0.337 | 6938327 | BE | 16.4 | |
| 3 | Stearic | 18.6575 | 7.497 | 0.121 | 176034 | BE | 26.3 | |
| Totals: | | 762.8341 | 0.483 | | 7099501 | | | |

Total Unidentified Counts : 477597 counts

Detected Peaks: 19 Rejected Peaks: 11 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 4 microVolts - monitored before this run

Manual Injection

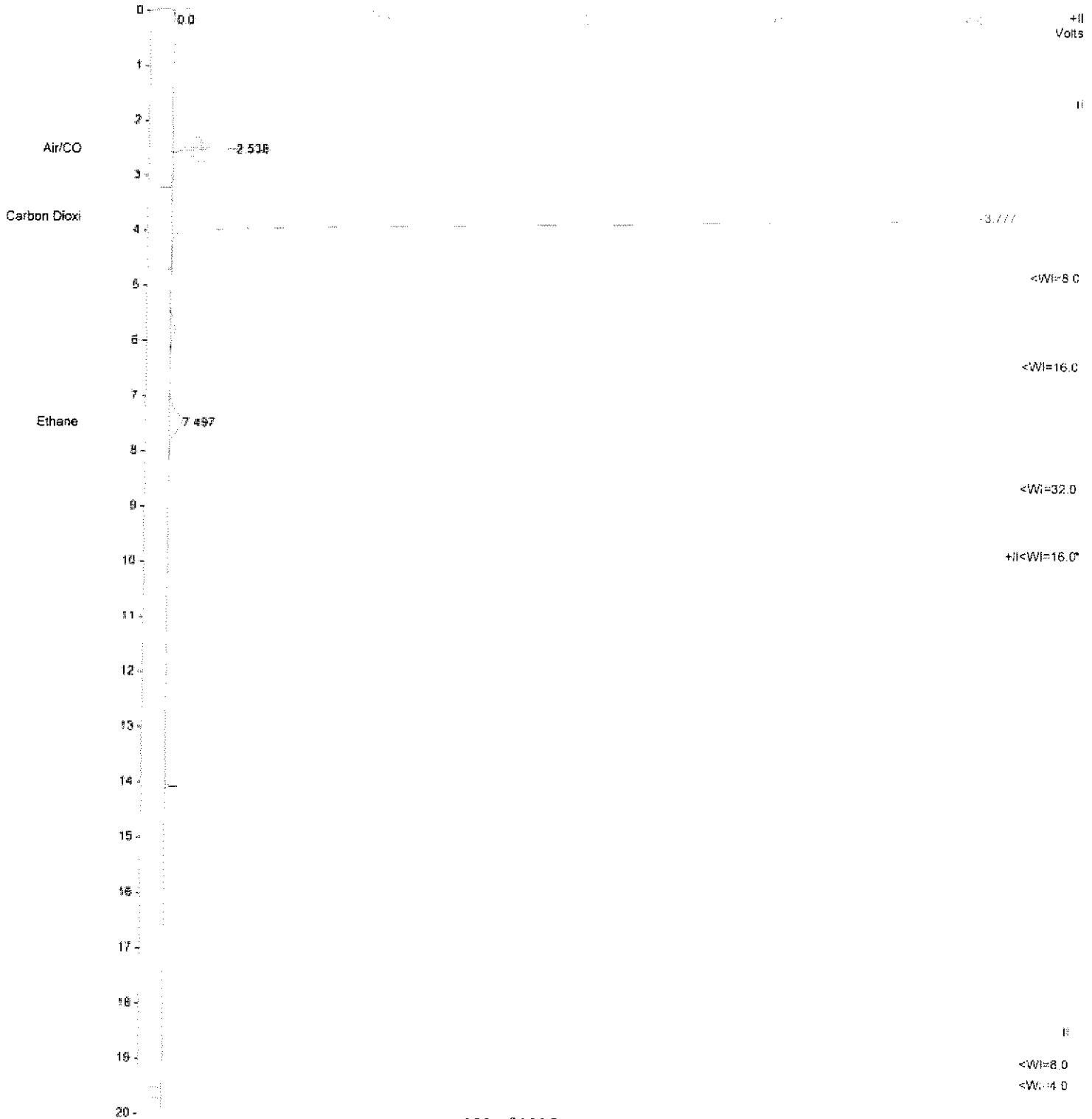
Title :
 Run File : c:\brukerws\data\2021\mar_21\2021-03-30 17-38-22 a 027 - 021 a inj 2 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\BrukerWS\methods\Master SQAGND 25.3 3 ml Loop 05-05-20_tcdrange5 - Copy.mth
 Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:38 Calculation Date: 2021-03-30 17:58

Operator : Douglass W. Detector Type: 4XX-GC (11000 Volts)
 Workstation: DESKTOP-6VLS8 Bus Address : 44
 Instrument : Lotus XMGC Sample Rate : 5.06 Hz
 Channel : Front = FID Run Time : 29.000 min

** MSMS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 44
 Start Time = 0.300 min End Time = 20.000 min Min / Tick = 1.00



Run File : C:\brukers\data\2021\mar_21\2021-03-30 17-38-22 a 027 - 021 a.inj 2 - master sqamnd 25.3 3 ml loop 05-05-20 _ccdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a.inj 1 - master sqamnd 25.3 3 ml loop 05-05-20 _ccdrange5 - copy-middie.mch
Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:38 Calculation Date: 2021-04-06 10:09

Operator : Douglas W.
Workstation : DESKTOP-6VH5B
Instrument : Lotus HMO
Channel : Middle - FID

** MSMS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 29.95 | 5.433 | 0.073 | 48320 | BV | 16.3 | |
| 2 | Carbon Monox | 31.10 | 6.151 | 0.286 | 53809 | VB | 26.5 | |
| 3 | NNNEOC | 212.42 | 16.962 | -0.217 | 4294204 | BB | 71.4 | |
| Totals: | | 273.47 | | 0.142 | 4396333 | | | |

Total Unidentified Counts : 5009 counts

Detected Peaks: 11 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 11 microVolts

Manual Injection

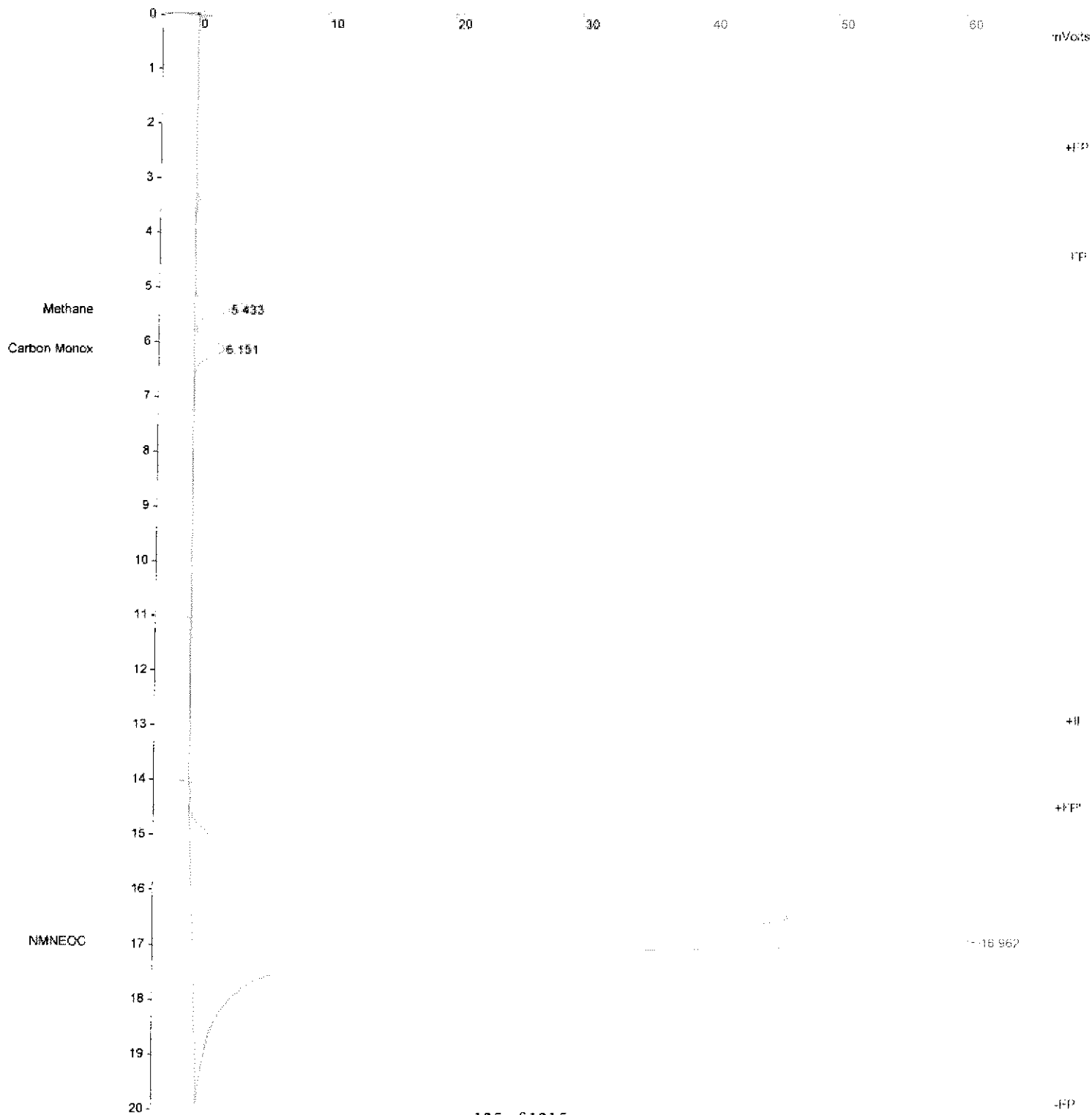
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 17-38-22 a 027 - 021 a inj 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 021 A

Injection Date: 2021-03-30 17:35 Calculation Date: 2021-04-06 10:09

Operator : Douglass W. Detector Type: GXX-GC (1000 Volts)
Workstation: DESKTOP-6V65E Bus Address : 44
Instrument : Lotus N90C Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** N90S 0.0.1 for SCION Version 3.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 14
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Bruker\data\2021\Mar_21\2021_03-30_18-04-37_4_027 - 021.b.inj ; master_sqcmd 25.3 0 ml Loop 05-05-20_tcdranges - copy.run
Method File : C:\Bruker\MS\Method\Master_sqcmd 25.3 0 ml Loop 05-05-20_tcdranges - copy.mth
Sample ID : A 027 - 021.B

Injection Date: 2021-03-30 18:06 Calculation Date: 2021-03-30 18:24

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus RMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 9.0.1 for SCIION Version 9.0.1 ** 02057-3701-ARI-415C **

Run Mode : Analysis

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Seg. Code | Width (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.000 | 2.536 | 0.023 | 68790 | VV | 1.7 | |
| 2 | Carbon Dioxide | 669.8495 | 3.775 | 0.335 | 6155642 | BB | 16.4 | |
| 3 | Ethane | 16.3499 | 7.499 | 0.123 | 154277 | BB | 26.2 | |
| Totals: | | 686.1994 | 0.481 | | 6376649 | | | |

Total Unidentified Counts : 421144 counts

Detected Peaks: 9 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 6 microVolts - monitored before this run

Manual Injection

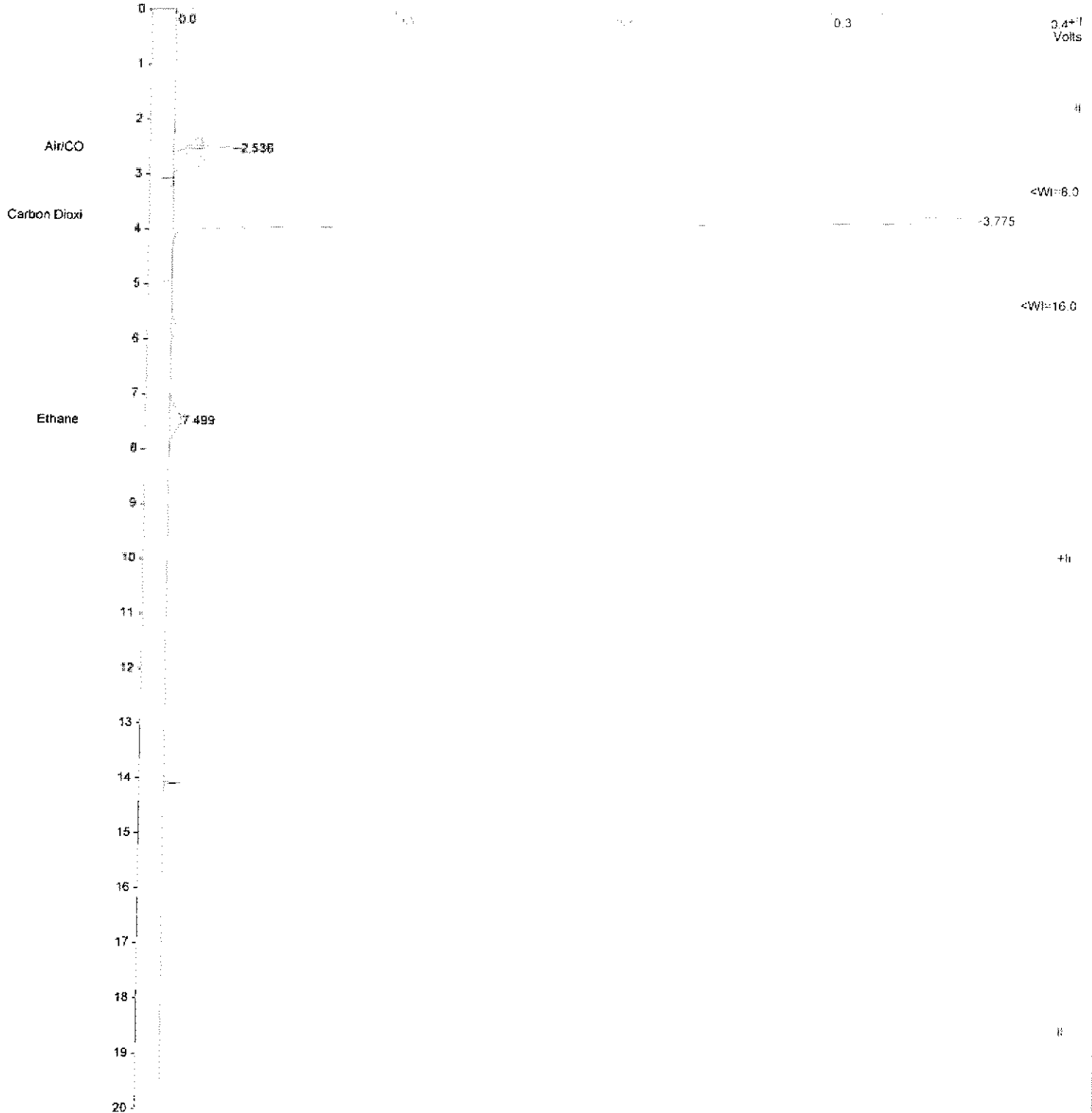
Title :
Run File : c:\bruker\ws\data\2021\mar_21\2021-03-30 18-04-37 a 027 - 027 b inj 1 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\WS\methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 021 B

Injection Date: 2021-03-30 18:04 Calculation Date: 2021-03-30 18:24

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Ictus MMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 5.0.1 ** 02057-3701-ARI-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\vs\data\2021\mar_21\2021-03-30 16-04-37 a 027 - 021 b inj 1 - master.sqagmd 25.3 3 ml loop 05-05-20 . tcdrange5 - copy.run
Method File : 2021-03-30 16-27-04 a 027 - 011 a inj 1 - master.sqagmd 25.3 3 ml loop 05-05-20 . tcdrange5 - copy.run
Sample ID : A 027 - 021 B

Injection Date: 2021-03-30 18:04 Calculation Date: 2021-04-06 10:24

Operator : Douglas W.
Workstation: DESKTOP-6VL5B
Instrument : Lotus N90C
Channel : Middle = FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** NEWS 8.0.1 for SCIION version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------|
| 1 | Methane | 26.39 | 5.434 | 0.074 | 42585 | BV | 16.3 | ----- |
| 2 | Carbon Monox | 27.42 | 6.152 | 0.287 | 47453 | VB | 26.7 | ----- |
| 3 | NNNEOC | 237.11 | 16.955 | -0.224 | 4793255 | BB | 74.2 | ----- |
| Totals: | | | 0.137 | | 4883293 | | | |

Total Unidentified Counts : 2194 counts

Detected Peaks: 10 Rejected Peaks: 4 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 12 microVolts

Manual injection

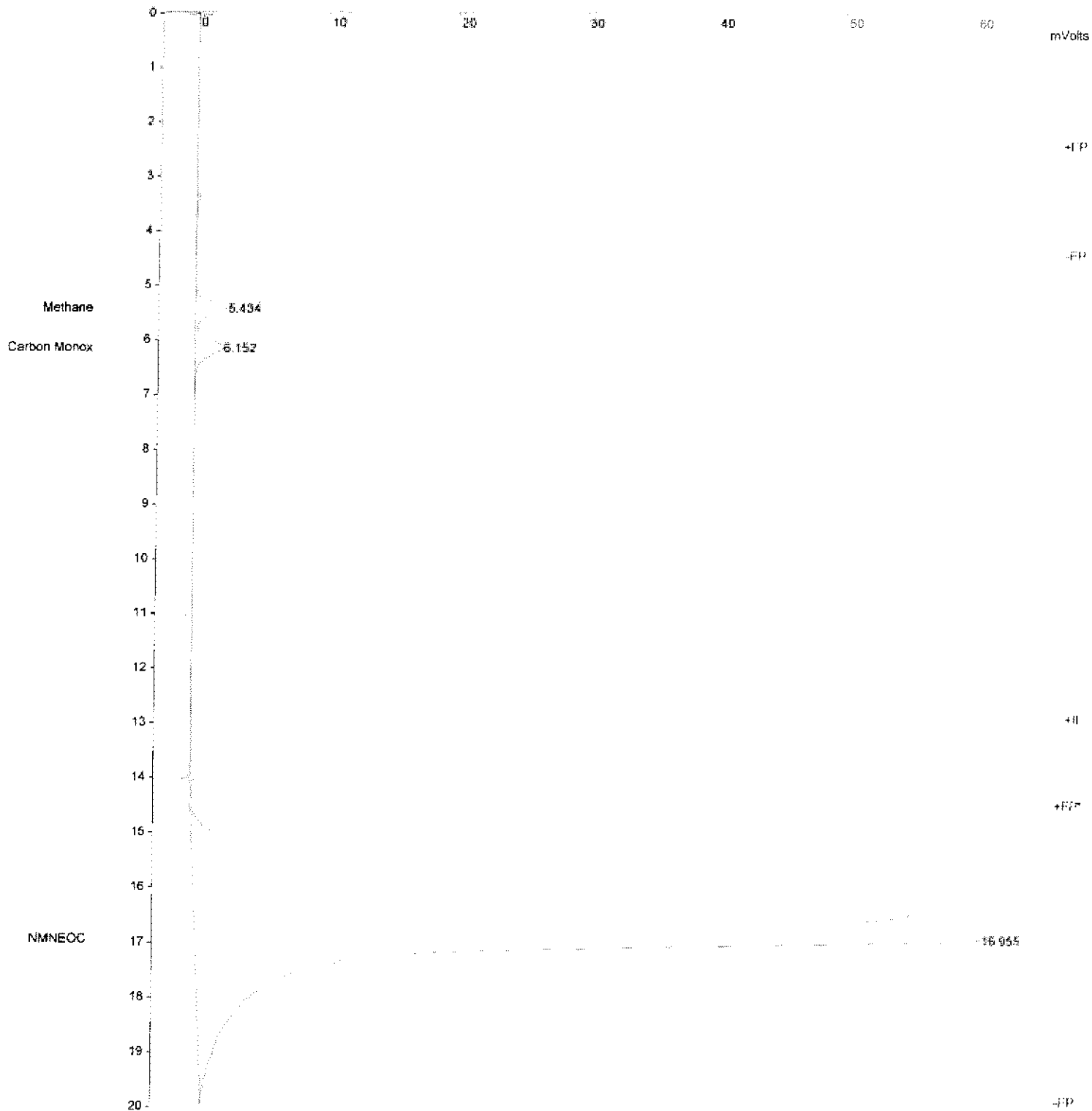
Title :
Run File : c:\braker\sw\data\2021\mar 21\2021-03-30 16-04-37 a 027 - 021 b inj 1 - master sqsqrnd 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 15-27-54 a 027 - 011 a inj 1 - master sqsqrnd 25.3 ml loop 05-05-20_tcdrange5 - copy-middle.nth
Sample ID : A 027 - 021 B

Injection Date: 2021-03-30 19:04 Calculation Date: 2021-04-06 10:24

Operator : Douglass W. Detector Type: GEX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus N90C Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MEWS 8.0.1 for SCION Version 8.0.1 ** 02057-3791-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 1%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2021-03-30 16:30 Calculation Date: 2021-03-30 18:50
 Operator : Douglas W. Detector Type: 4X2-6C (1000 Volts)
 Workstation: DEKTOP-6VL5B Bus Address : 44
 Instrument : Lotus NMOG Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 9.0.1.1 ** 02057-3701-AH1-415C **
 Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (SPMG) | Ret. Time (min) | Time Offset (min) | Area (Counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.537 | 0.024 | 66442 | VV | 1.7 | |
| 2 | Carbon Dioxl | 669.7241 | 3.775 | 0.335 | 6154490 | BB | 16.4 | |
| 3 | Ethane | 16.3504 | 7.500 | 0.124 | 154281 | BB | 26.3 | |
| Totals: | | 686.0745 | 0.483 | | 6375213 | | | |

Total Unidentified Counts : 420271 counts
 Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 3
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - monitored before this run
 Manual injection

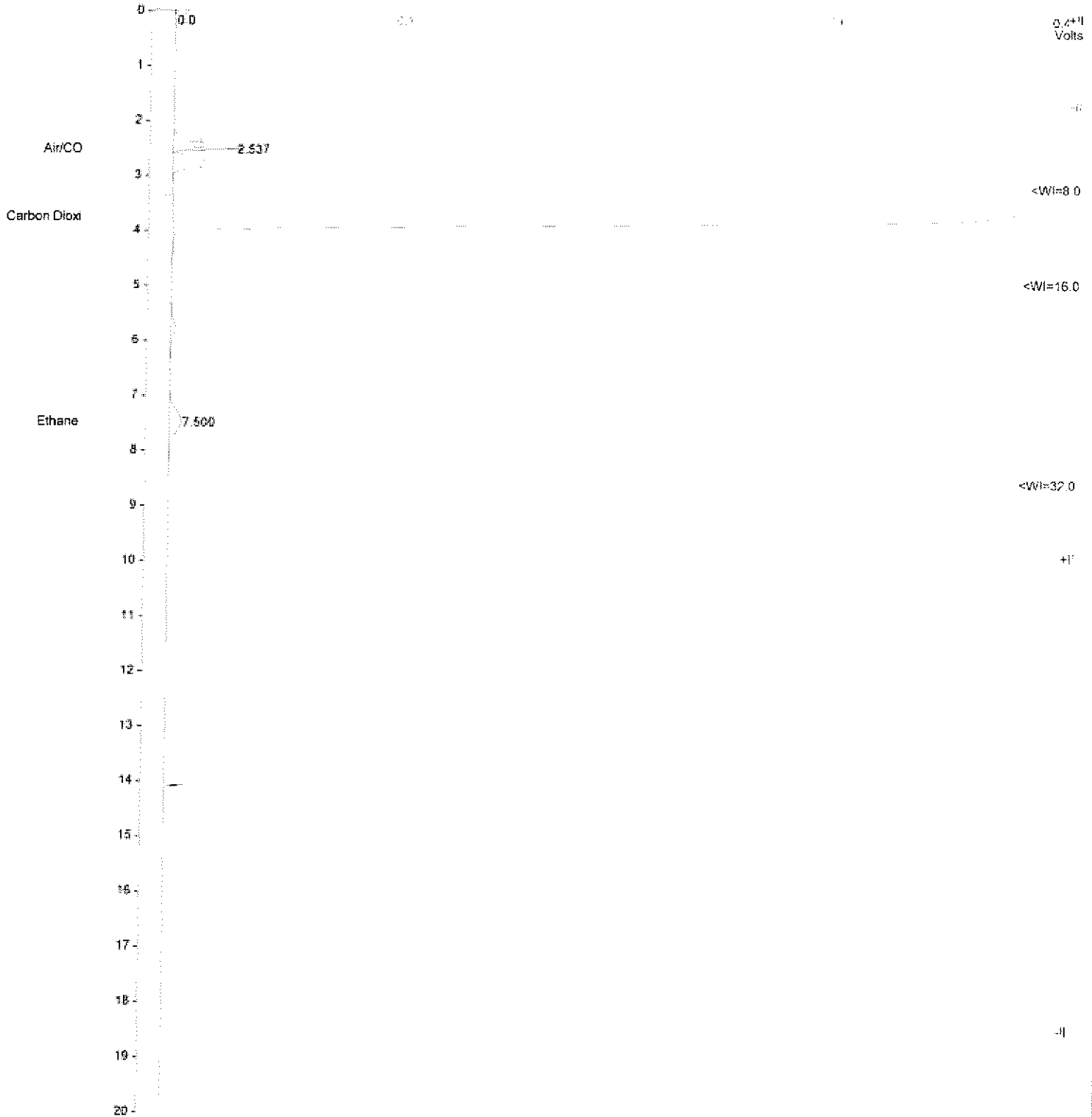
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-30 18-30-45 a 027 - 021 b in1 2 - master sqagra 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\MS\methods\Master SQAGMD 25.3 3 ml Loop 05-03-20_TCDrange5 - Copy.mtd
Sample ID : A 027 - 021 B

Injection Date: 2021-03-30 18:30 Calculation Date: 2021-03-30 18:50

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-67E5B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIOW Version 8.0.1 ** 02657-3791-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 45
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2021-03-30 18:30 Calculation Date: 2021-04-06 10:24
 Operator : Douglas W.
 Workstation: DESKTOP-6VLSB
 Instrument : Lotus NNOG
 Channel : Middle = FID

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02037-5701-RBI-415C **

Run Mode : Analysis - Subtract: Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (secs) | Height (counts) |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|--------------|-----------------|
| 1 | Methane | 26.40 | 5.435 | 0.075 | 42597 | BY | 16.3 | |
| 2 | Carbon Monox | 28.08 | 6.154 | 0.289 | 48594 | VP | 20.6 | |
| 3 | NNNEOC | 236.99 | 16.952 | -0.227 | 4790850 | BB | 74.1 | |
| Totals: | | 291.47 | | 0.137 | 4882041 | | | |

Total Unidentified Counts : 4119 counts

Detected Peaks: 13 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 22 microVolts

Manual Injection

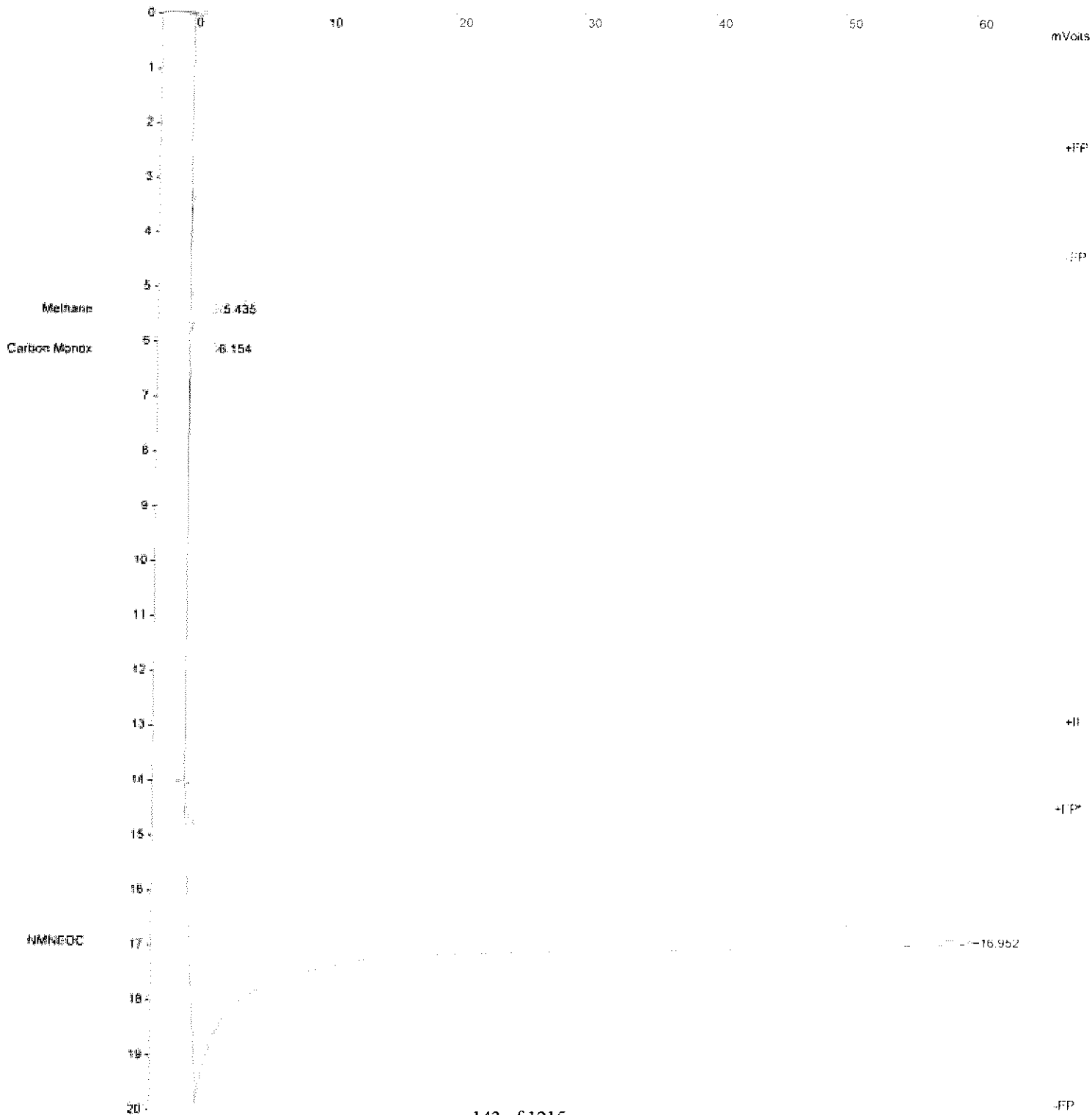
Title :
 Run File : c:\bruker\sw\data\2021\mar 21\2021-03-30 18-30-48 # 027 - 021 b.txt 2 - master square 25.3 ml loop 05-05-20 codranged - copy.run
 Method File : 2021-03-30 15-27-04 # 027 - 011 # 177 1 - master square 25.3 ml loop 05-05-20 codranged - copy-middle.txt
 Sample ID : A 027 - 021 B

Injection Date: 2021-03-30 18:30 Calculation Date: 2021-04-06 10:24

Operator : Douglass W. Detector Type: 400-GC (3000 Volts)
 Application: BENTON-GV200 Bus Address : 41
 Instrument : Lotus NMSD Sample Rate : 1.00 Hz
 Channel : Middle = FID Run Time : 30.000 min

** MMSW 0.0.1 for SPCON Version 0.0.1 ** 02057-3701-AD1-415C **

Chart Speed = 0.49 cm/min Attenuation = 1 Zero Offset = 12
 Start Time = 0.000 min End Time = 30.000 min Min / Tick = 1.00



Injection Date: 2021-03-30 18:57 Calculation Date: 2021-03-30 19:17
Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL58 Bus Address : 44
Instrument : Lottus NNOC Sample Rate : 5.00 Hz
Channel : Front on FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 8.0.1 ** 92057-3701-AB1-415C **
Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.0000 | 2.536 | 0.023 | 42198 | VV | 1.7 | |
| 2 | Carbon Dioxl | 565.4925 | 3.773 | 0.333 | 5197019 | BB | 16.3 | |
| 3 | Ethane | 6.6638 | 7.496 | 0.120 | 57428 | BR | 26.3 | |
| Totals: | | 571.5763 | 0.476 | | 5296645 | | | |

Total Unidentified Counts : 283640 counts
Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 10 microVolts - monitored before this run
Manual Injection

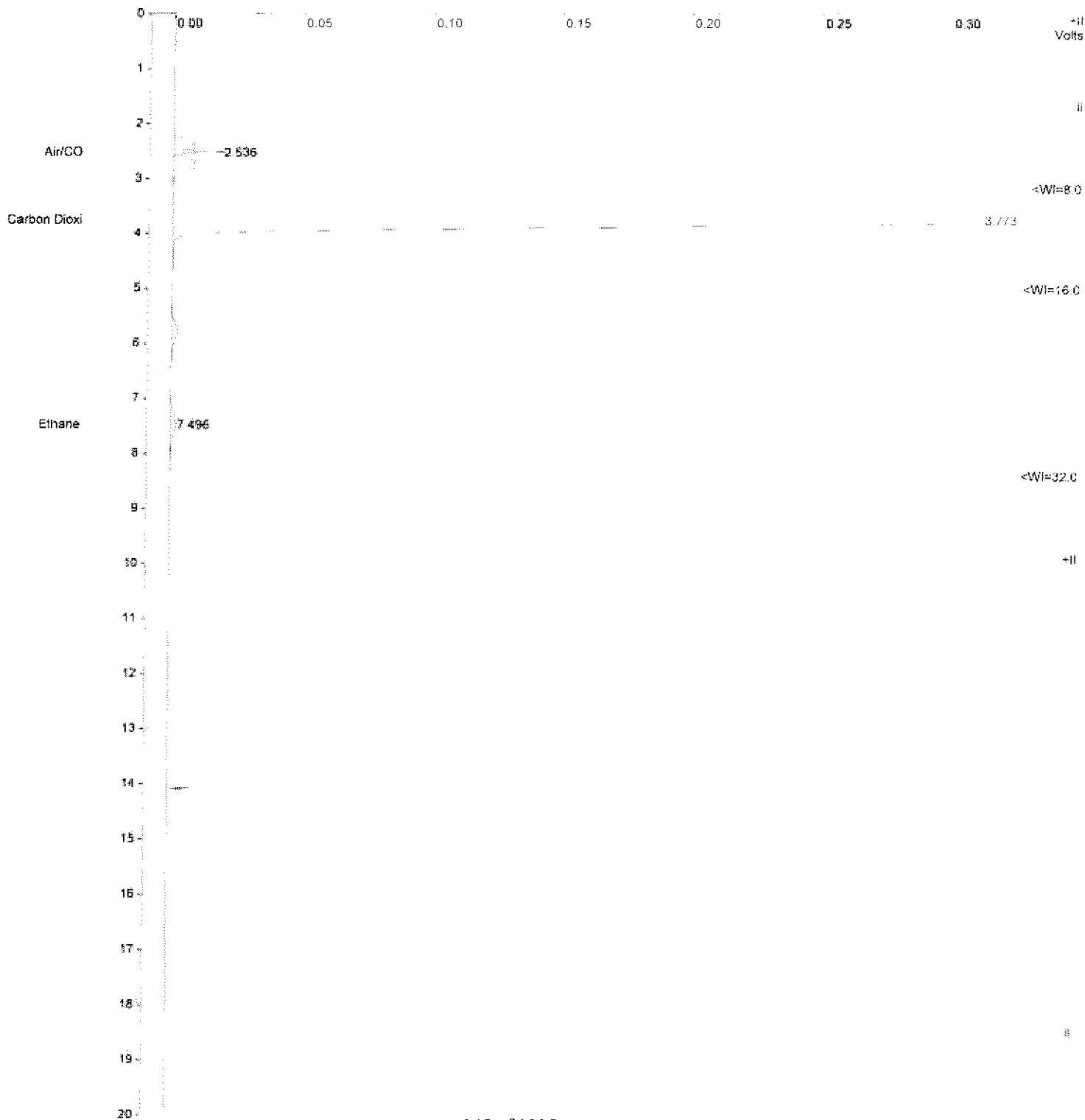
Title :
 Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30_18-57-01_a_027 - 031 a inj 1 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\bruker\sw\method\Master SQAGMD 25.3 3 ml loop 05-05-20_tcdrange5 - Copy.mnh
 Sample ID : A 027 - 031 A

Injection Date: 2021-03-30 18:57 Calculation Date: 2021-03-30 19:17

Operator : Douglass W. Detector Type: 4EX-GC (1000 Volts)
 Workstation: DESKTOP-6VU55 Bus Address : 44
 Instrument : Lotus NMOG Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSRS 8.0.1 for SCIOW Version 8.0.1 ** 02057-3791-AP1-413C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 33
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\swdata\2021\mar_21\2021-03-30 18-57-01 a 027 - 031 a inj 1 - master sqamnd 25.3 3 ml loop 05-05-20 _cedranged5 - copy.run
Method File : 2021-03-30 18-27-04 a 027 - 011 a inj 1 - master sqamnd 25.3 3 ml loop 05-05-20 _cedranged5 - copy-middle18.mth
Sample ID : A 027 - 031 A

Injection Date: 2021-03-30 18:57 Calculation Date: 2021-04-06 10:25

Operator : Douglas W.
Workstation: DESKTOP-6VHLS
Instrument : Lotus N60C
Channel : Middle - FID

Detector Type: 4RX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** NWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | SEP. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 15.88 | 5.438 | 0.078 | 25630 | BV | 16.3 | |
| 2 | Carbon Monox | 17.94 | 6.159 | 0.294 | 31035 | VB | 20.7 | |
| 3 | NMSOC | 149.12 | 16.522 | -0.637 | 3014564 | BB | 66.6 | |
| Totals: | | 182.94 | | -0.285 | 3071253 | | | |

Total Unidentified Counts : 4630 counts

Detected Peaks: 10 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 25 microVolts

Manual Injection

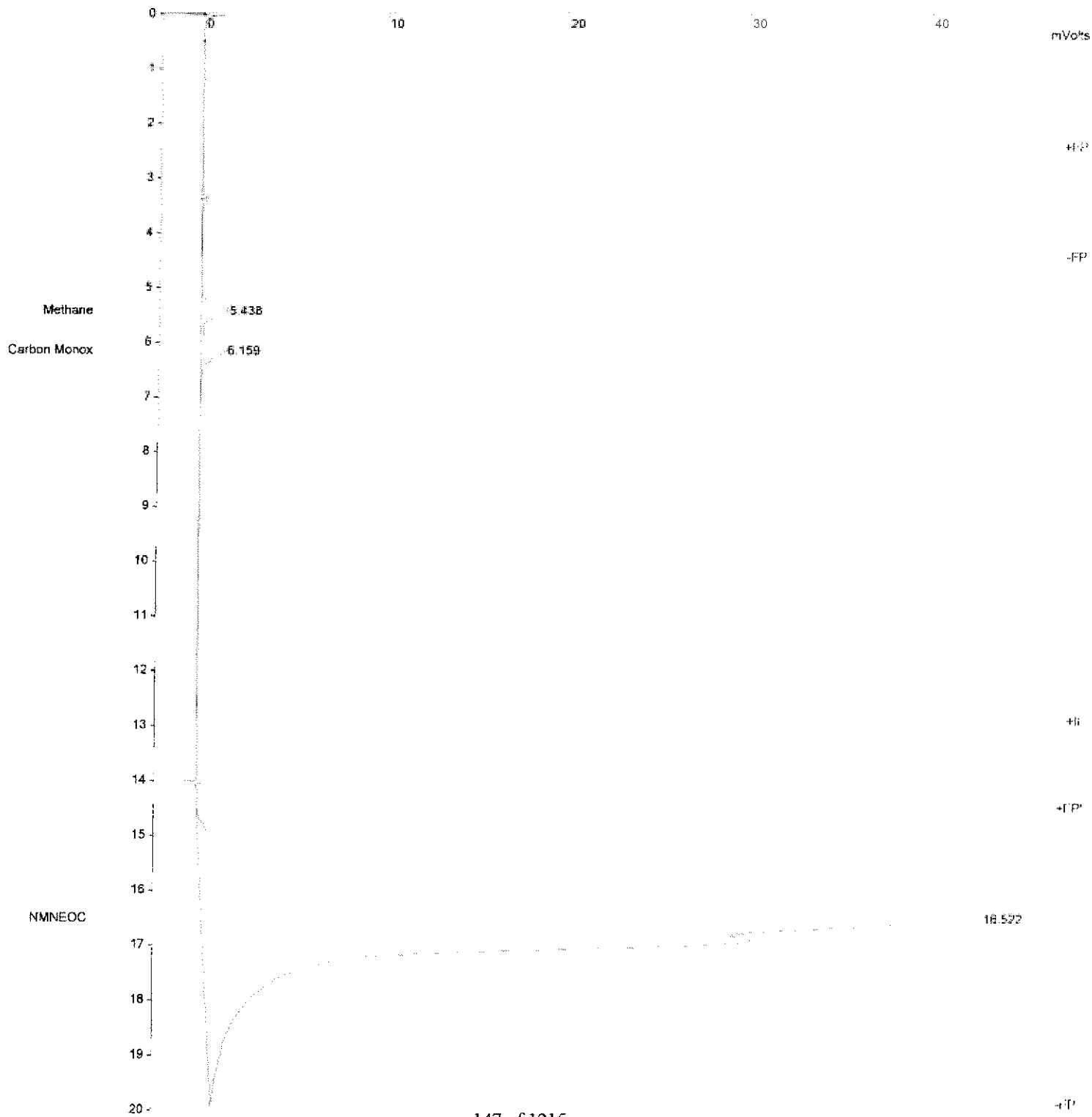
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30 18-57-01 a 027 - 031 a inj 1 - master sqacmd 25.3 3 ml loop 05-05-20_tcdranges - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqacmd 25.3 3 ml loop 05-05-20_tcdranges - copy-middle.mch
Sample ID : A 027 - 031 A

Injection Date: 2021-03-30 18:57 Calculation Date: 2021-04-06 10:25

Operator : Douglass W. Detector Type: 4EX-GC (1E00 Volts)
Workstation: DESKTOP-6VE5E Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-RE1-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 08
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerw\data\2021\mar_21\2021-03-30_19-23-13_a_027 - 031_a_inj_2 - master_sqeamd 25.3 3 ml loop 03-03-20_TCDranges - copy.run
Method File : C:\brukerw\methods\master_sqeamd 25.3 3 ml loop 03-03-20_TCDranges - copy.mth
Sample ID : A 027 - 031 A

Injection Date: 2021-03-30 19:23 Calculation Rate: 2021-03-30 19:43

Operator : Douglas W
Workstation: DESKTOP-6W15B
Instrument : LUNA NMO
Channel : Front FID
Run Time : 20.000 min

** NAWIS 8.0.1 for SCIION version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Wish 1/2 | Status Codes |
|----------|-------------|---------------|-----------------|-------------------|---------------|-----------|----------|--------------|
| 1 | Air/CO | 0.000 | 2.556 | 0.023 | 42222 | WV | 1.7 | |
| 2 | Carbon Diox | 568.1284 | 3.785 | 0.335 | 518892 | BB | 16.3 | |
| 3 | Ethane | 668.1284 | 7.498 | 0.122 | 57660 | BB | 26.3 | |
| Totals: | | 570.7271 | | 0.140 | 528874 | | | |

Total Unidentified Counts : 292847 counts

Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3

Multiplic: 1 Divisor: 1 Unidentified Peak Factor: C

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 9 microVolts - monitored before this run

Manual Injection

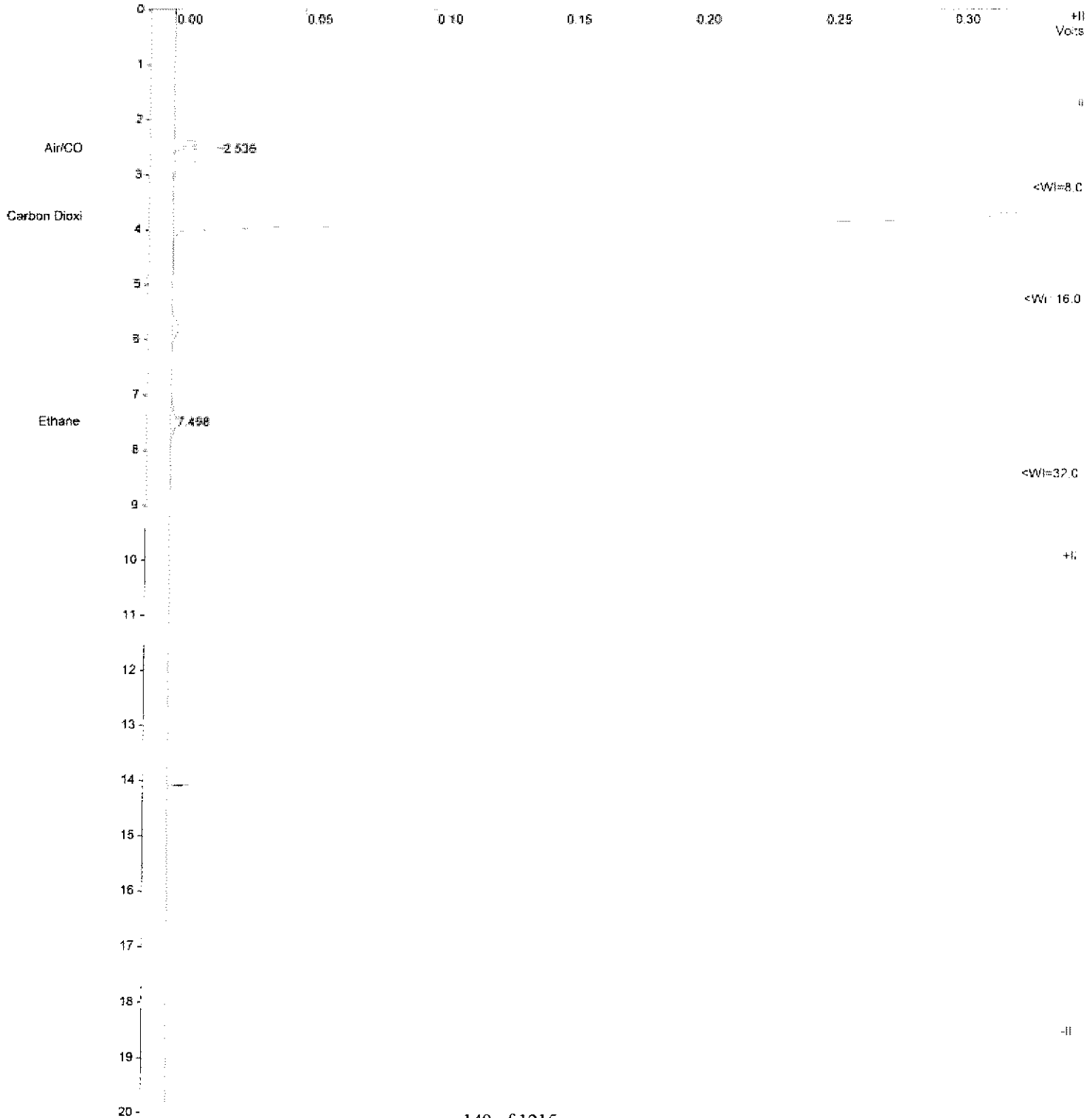
Title :
Run File : c:\brukerw\data\2021\mar_21\2021-03-30_19-23-13_a_027 - 031_a_inj_2 - master_sqamd_25.3_3_ml_loop_05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\MS\methods\Master_SQAMD_25.3_3_ml_Loop_05-05-20_TCDrange5 - Copy.mth
Sample ID : A_027 - 031_A

Injection Date: 2021-03-30 19:23 Calculation Date: 2021-03-30 19:43

Operator : Douglas W. Detector Type: 40X-CC (1000 Volts)
Workstation: DESKTOP-6WLS8 Bus Address : 44
Instrument : Lotus WGC Sample Rate : 5.00 Hz
Channel : Front - FID Run Time : 20.000 min

MS 6.0.1 for SCIOW Version 6.0.1 ** 02037-3701-AB1-415C **

Chart Speed = 0.50 cm/min Attenuation = 1 Zero Offset = 31
Start Time = 0.000 min End Time = 20.000 min Min / Pick = 1.00



Title : C:\brokers\data\2021\mar_21\2021-03-30 19-23-03 8 027 - 031 5 in_2 - master sqdms 25.3 3 ml loop 05-05-20...
Method File : 2021-03-30 15-27-04 8 027 - 011 8 in_1 - master sqdms 25.3 3 ml loop 05-05-20...
Sample ID : A 027 - 031 A

Injection Date: 2021-03-30 19:23 Calculation Date: 2021-04-06 10:25

Operator : Douglas W.
Method : LORISKO-VL5S
Instrument : Middle - FID
Channel : Middle - FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Seg. Code (sec) | Width 1/2 | Status Codes |
|----------|-----------|---------------|-----------------|-------------------|---------------|-----------------|-----------|--------------|
| 1 | Methane | 15.58 | 5.436 | 0.076 | 25142 | RV | 16.3 | |
| 2 | Hexane | 17.77 | 6.157 | 0.292 | 30740 | VB | 20.6 | |
| 3 | NONOX | 149.76 | 16.528 | -0.651 | 3027496 | BB | 67.2 | |
| Totals: | | 193.11 | | | 3089378 | | | |

Total Unidentified Counts : 5030 counts

Detected Peaks: 10 Rejected Peaks: 0 Identified Peaks: 3

Multiplicier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 42 microVolts

Manual injection

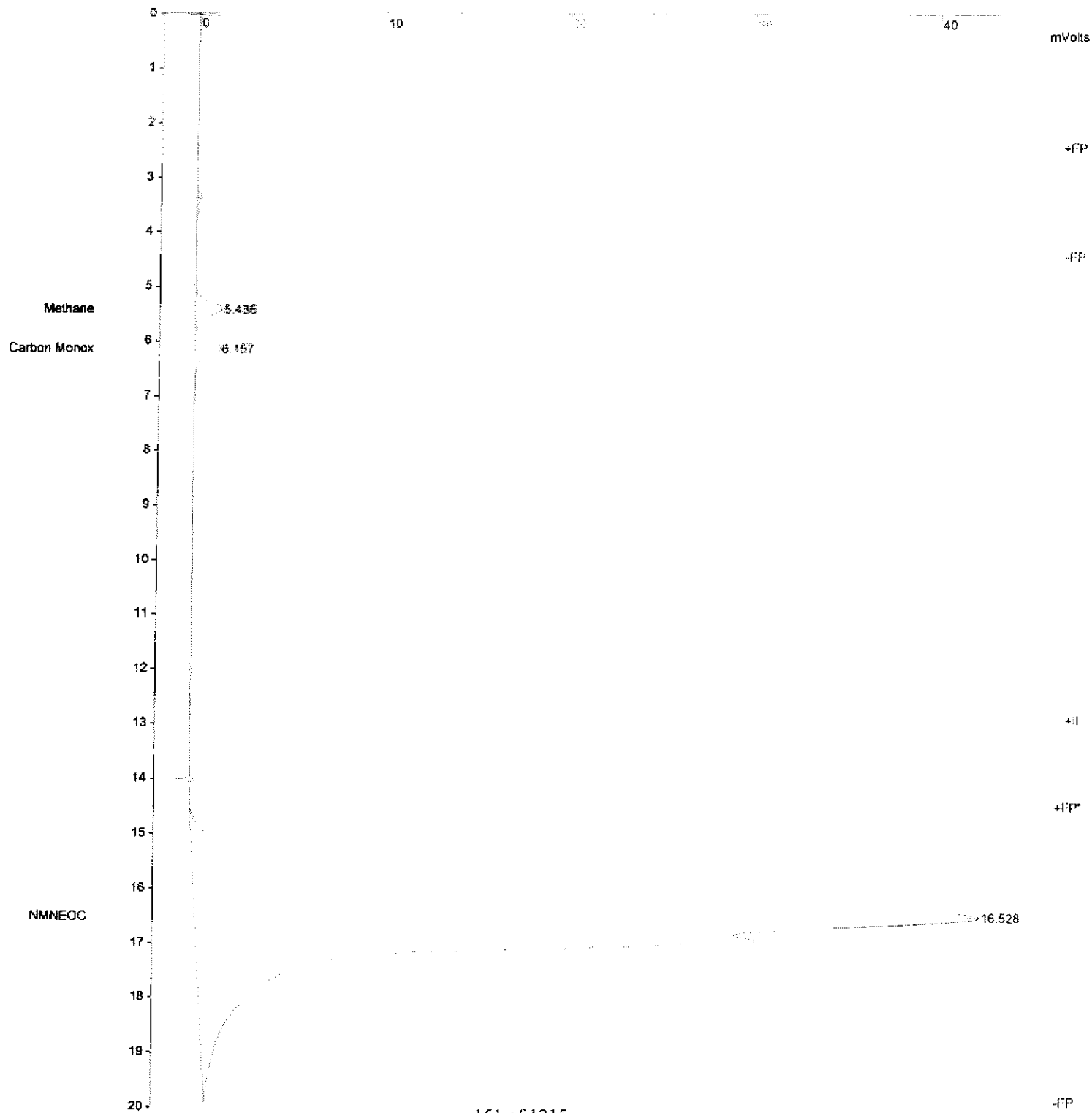
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 19-23-13 a 027 - 03i a inj 2 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 01i a inj 1 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 03i A

Injection Date: 2021-03-30 19:23 Calculation Date: 2021-04-06 10:25

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLS5E Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** NWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2021-03-30 19:49 Calculation Date: 2021-03-30 20:09

Operator : Douglas W.
 Workstation: DESKTOP-6V15B
 Instrument : Lotus N20C
 Channel : FID

** MSMS 8.0.1 for SCIEN Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analytic
 Peak Measurement: Peak Area
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppm) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|-------------|--------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.000 | 2.535 | 0.022 | 43355 | VV | 1.7 | |
| 2 | Carbon Diox | 580.4952 | 3.773 | 0.333 | 9334843 | BB | 16.3 | |
| 3 | Ethane | 6.3005 | 7.496 | 0.120 | 59473 | BB | 26.4 | |
| Totals: | | 536.7957 | | 0.475 | 5437871 | | | |

Total Unidentified Counts : 29083 counts

Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3

Multiplet: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 14 microVolts - monitored before this run

Manual injection

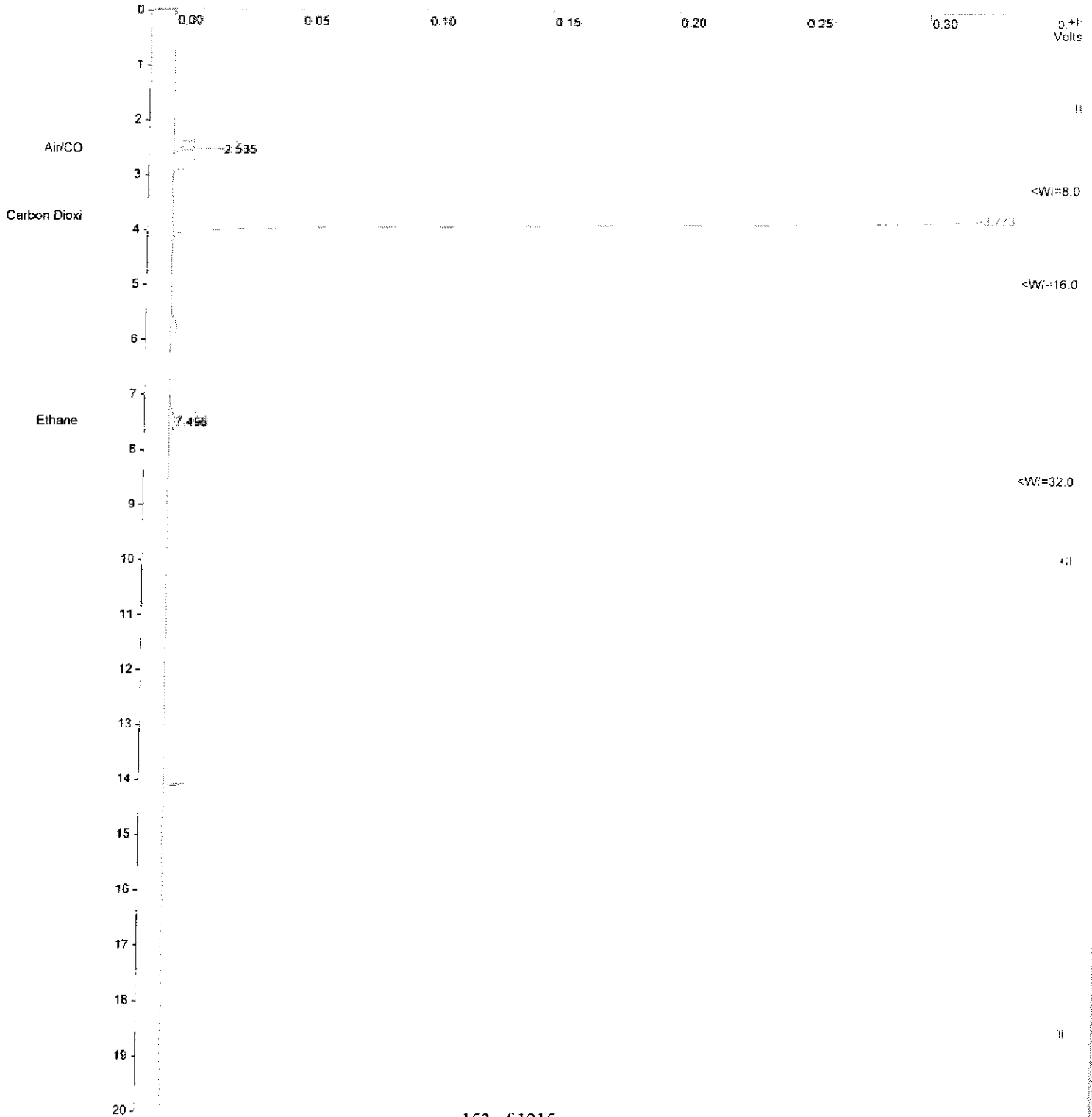
Title :
 Run File : c:\bruker\ms\data\2021\mar 21\2021-03-30 19-49-31 a 027 - 031 b inj 1 - master sqapmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\Bruker\MS\methods\Master SQAPMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
 Sample ID : A 027 - 031 B

Injection Date: 2021-03-30 19:49 Calculation Date: 2021-03-30 20:09

Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-54U5B Bus Address : 44
 Instrument : Lotus MGC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCLON Version 8.0.1 ** 02057-3701-AB1-4150 **

Chart Speed = 0.59 cm/min Attenuation = 1 Zero Offset = 33
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\msdata\2021\mar_21\2021-03-30 19-49-31 a 027 - 031 b inf 1 - master sqcmd 25.3 3 ml loop 05-05-20_1ccchanges + copy.run
Method File : 2021-03-30 18-27-04 a 027 - 011 a inf 1 - master sqcmd 25.3 3 ml loop 05-05-20_1ccchanges + copy.run
Sample ID : A 027 - 031 B

Injection Date: 2021-03-30 19:49 Calculation Date: 2021-04-06 10:25
Operator : Douglas W Detector Type: 4X-GC (1000 Volts)
Workstation: DESKTOP-6VU5B Sample Size : 1.0000 µl
Instrument : Lotus SMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 16.38 | 5.432 | 0.022 | 26429 | BV | 16.2 | |
| 2 | Carbon Monox | 18.67 | 6.182 | 0.287 | 37303 | VB | 20.6 | |
| 3 | NNNEOC | 149.64 | 16.518 | -0.661 | 3028328 | RS | 67.2 | |
| Totals: | | 184.69 | | -0.302 | 3083660 | | | |

Total Unidentified Counts : 4170 counts

Detected Peaks: 8 Rejected Peaks: 1 Unidentified Peaks: 3

Multiplet: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 37 microVolts

Manual Injection

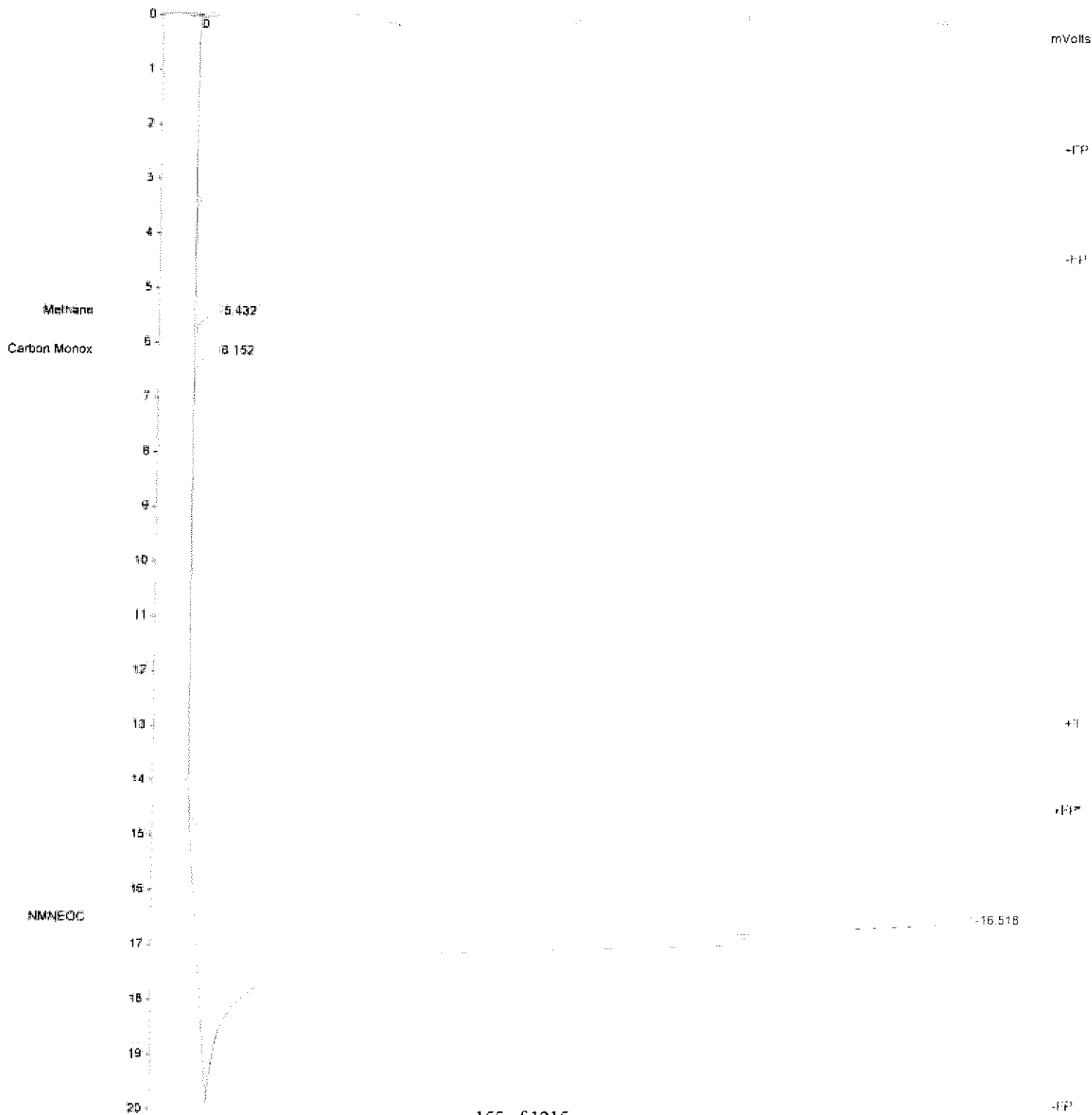
Title :
Run File : c:\brakerws\data\2021\mar 21\2021-03-30 19-49-31 a 027 - 011 b in j - master sqquad 25.3 3 mi loop 05-05-20_tdrange5 - copy.kan
Method File : 2021-03-30 15-27-04 a 027 - 011 a in j - master sqquad 25.3 3 mi loop 05-05-20_tdrange5 - copy-middle.mh
Sample ID : A 027 - 011 B

Injection Date: 2021-03-30 19:49 Calculation Date: 2021-04-04 10:25

Operator : Douglas W. Detector Type: 470-01 (1000 Veitel)
Workstation: DESKTOP-GVLSH Bus Address : 44
Instrument : Lotus NMGC Sample Date : 3.00 Hr
Channel : Middle = FID Run Time : 20.000 min

MSW 0.0.1 for SCION Version 0.0.1 ** 02057-T101-AB1-0151 **

Chart Speed = 0.49 cm/min Attenuation = 1 Zero Offset = 01
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-03-30_20-15-47_9_027_1_031_b inj_2 - master sqeagd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\sws\method\standard_50AQMD 25.3 3 ml loop 05-05-20_tcdrange5 - copy.mth
Sample ID : A 027 - 031_E

Injection Date: 2021-03-30 20:15 Calculation Date: 2021-03-30 20:35

Operator : Douglas W.
Workstation: DESKTOP-6VZL5B
Instrument : Lotus NMOC
Channel : Front = FID

Detector Type: 4XX-GC (1000 volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Rep. Code (502) | Width (502) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-------------|--------------|
| 1 | Air/CO | 0.000 | 2.536 | 0.023 | 43353 | VV | 1.7 | |
| 2 | Carbon Dioxl | 591.1116 | 3.772 | 0.332 | 5340504 | BB | 16.3 | |
| 3 | Ethane | 6.2327 | 7.494 | 0.118 | 59399 | BB | 26.3 | |
| Totals: | | 587.4043 | 0.473 | | 5443256 | | | |

Total Unidentified Counts : 291772 counts

Detected Peaks: 9 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LED: 1 microVolts

Noise (used): 6 microVolts - monitored before this run

Manual Injection

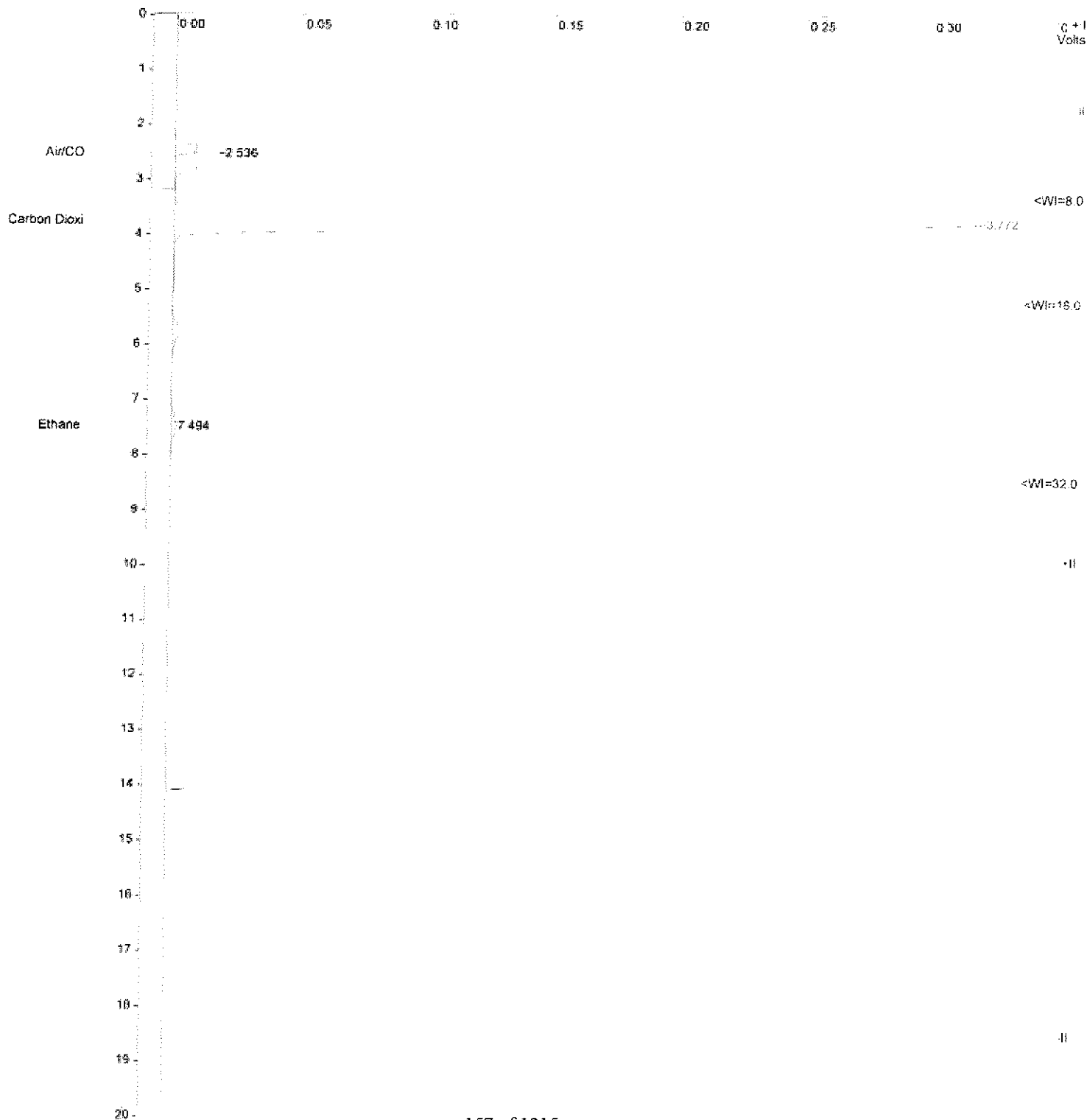
Title :
 Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30 20:15:47 a 027 - 031 b inj 2 - master sqamr 25.3 ml loop 05-05-20 todrange5 - copy.run
 Method File : C:\bruker\sw\methods\Master SQAMR 25.3 ml Loop 05-05-20 _TODrange5 - Copy.mth
 Sample ID : A 027 - 031 B

Injection Date: 2021-03-30 20:15 Calculation Date: 2021-03-30 20:35

Operator : Douglass W. Detector Type: 4XX-SC (1000 Volts)
 Workstation: DESKTOP-67L58 Bus Address : 44
 Instrument : Lotus NMCC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 3%
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : C:\Bruker\data\2021\mar_21\2021-03-30_20-15-47_8_027 - 001 5 inj 2 - master.sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30_15-27-04_1_027 - 011 a inj 1 - master.sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.middle.mh
Sample ID : A 027 - 031 B

Injection Date: 2021-03-30 2015 Calculation Date: 2021-04-06 10:25

Operator : Douglass W.
Workstation: DESKTOP-6VJ15B
Instrument : Lotus NMO
Channel : Middle = FID

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppm) | Ret. Time (min) | Time Offset (min) | Area (counts) | Height (counts) | Width (sec) | Skewness |
|----------|--------------|--------------|-----------------|-------------------|---------------|-----------------|-------------|----------|
| 1 | Methane | 16.20 | 5.432 | 0.072 | 26135 | 87 | 16.3 | |
| 2 | Carbon Monox | 17.97 | 6.151 | 0.286 | 31087 | 78 | 20.5 | |
| 3 | NMNEOC | 150.33 | 16.525 | -0.654 | 3038993 | 82 | 67.0 | |
| Totals: | | 184.50 | -0.256 | | 3096215 | | | |

Total Unidentified Counts : 3192 counts

Detected Peaks: 7 Selected Peaks: 0 Identified Peaks: 3

Multiplicities: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 13 microVolts

Manual Injection

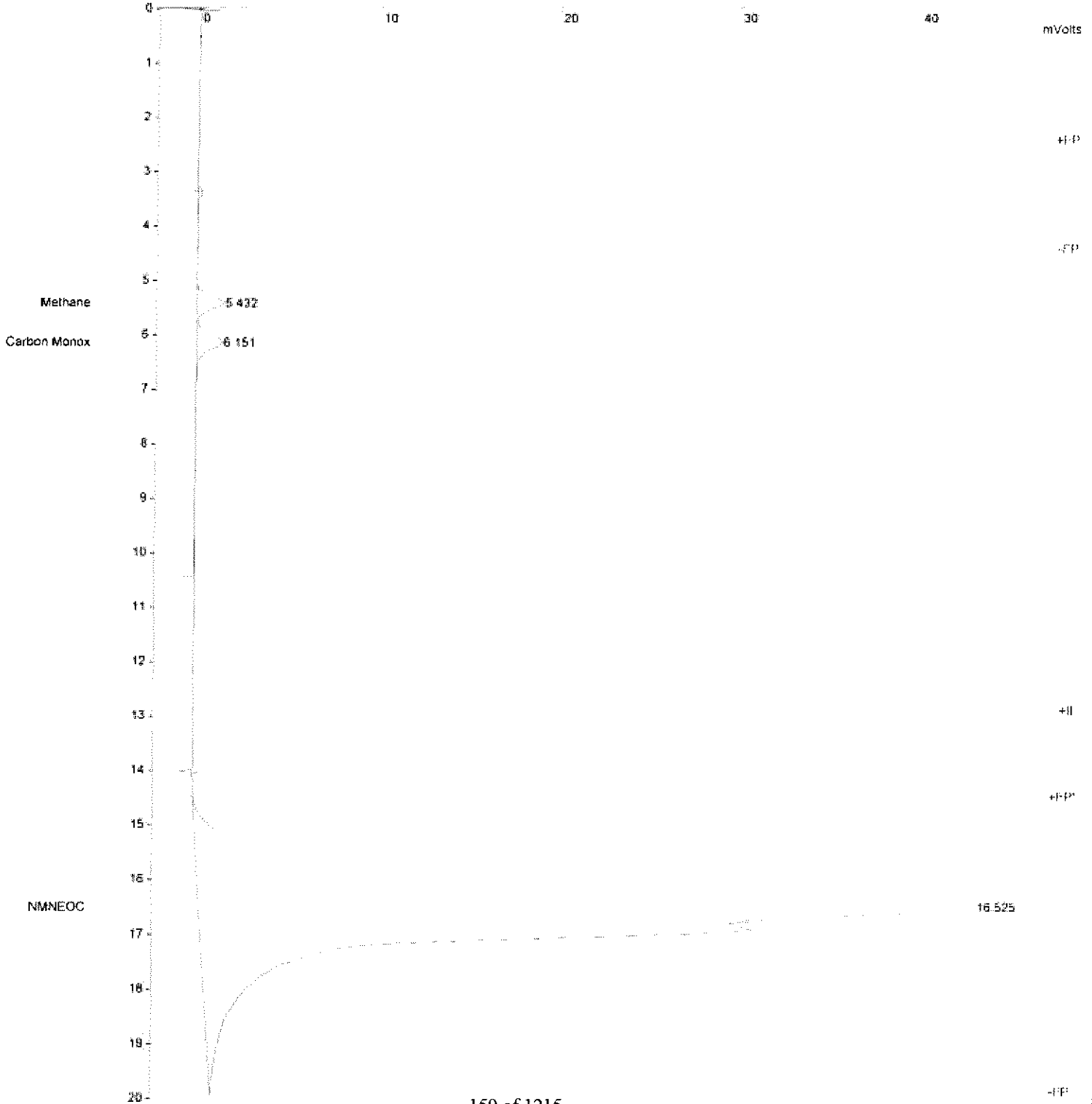
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 20-15-47 a 027 - 031 b inj 2 - master sqaqnd 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 15-21-04 a 027 - 031 a inj 1 - master sqaqnd 25.3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 031 B

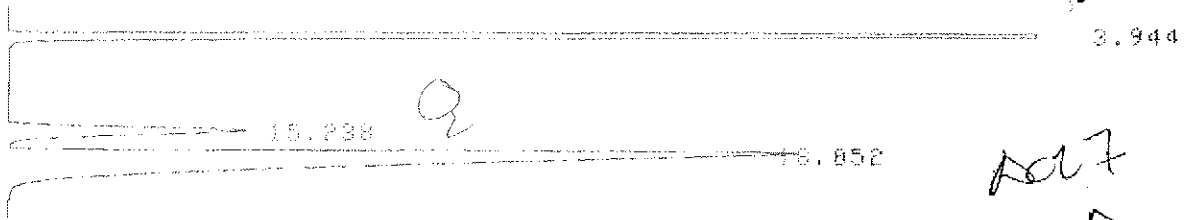
Injection Date: 2021-03-30 20:15 Calculation Date: 2021-04-06 16:25

Operator : Douglass W. Detector Type: 4MX-5C (1000 Volts)
Workstation: DESKTOP-6VL58 Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCTOW Version 5.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 08
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00





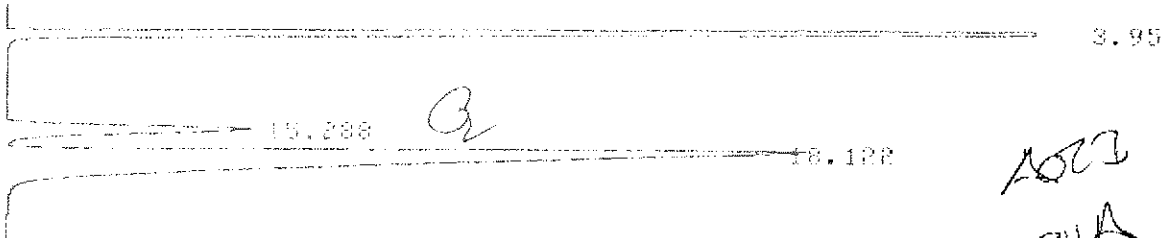
CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 748

*AD7
-OIA*

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.944 | 7501350 | | | 36.1039 | |
| 2 | 15.238 | 2013853 | | | 9.6919 | |
| 3 | 18.052 | 11262974 | V | | 54.2042 | |
| TOTAL | | 20778776 | | | 100 | |



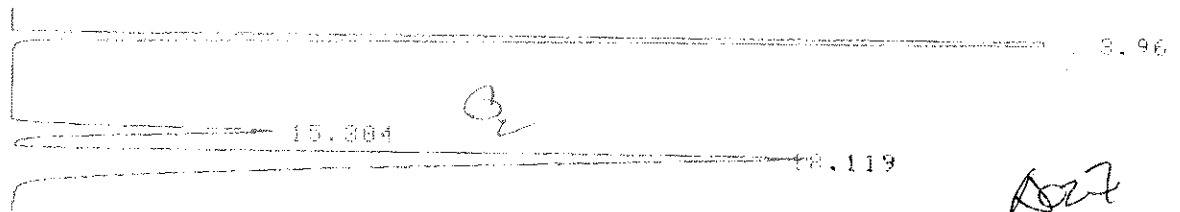
CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 8 METHOD 41
 REPORT NO 749

*AD7
-OIA
dup*

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.95 | 7510458 | | | 35.4106 | |
| 2 | 15.288 | 2071567 | | | 9.7671 | |
| 3 | 18.122 | 11627630 | V | | 54.8223 | |
| TOTAL | | 21209654 | | | 100 | |

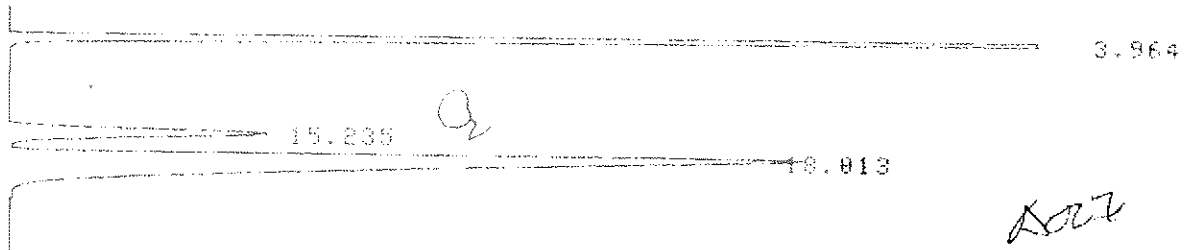


CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 750

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.96 | 7541150 | | | 35.5458 | |
| 2 | 15.304 | 2209839 | | | 10.4162 | |
| 3 | 18.119 | 11464310 | V | | 54.0379 | |
| TOTAL | | 21215296 | | | 100 | |



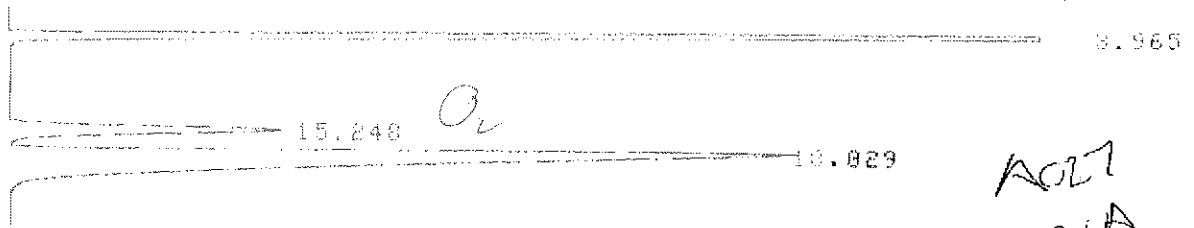
CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0

SAMPLE NO 0 METHOD 41
 REPORT NO 751

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.964 | 7505224 | | | 35.6849 | |
| 2 | 15.235 | 2187797 | | | 10.4023 | |
| 3 | 18.013 | 11338917 | V | | 53.9128 | |
| TOTAL | | 21031936 | | | 100 | |



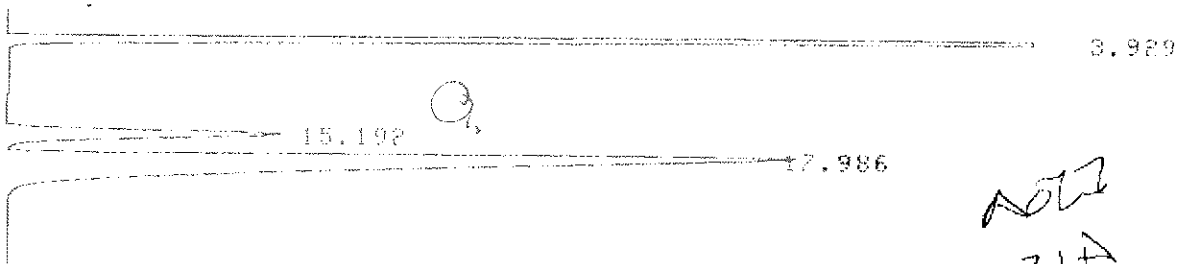
*NOT
-O2IA*

CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC
 CHANNEL NO 1
 SAMPLE NO 0
 REPORT NO 752

FILE 0
 METHOD 41

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.965 | 2499127 | | | 35.9156 | |
| 2 | 15.248 | 2288925 | | | 10.9624 | |
| 3 | 18.029 | 11091785 | V | | 53.122 | |
| TOTAL | | 20879836 | | | 100 | |



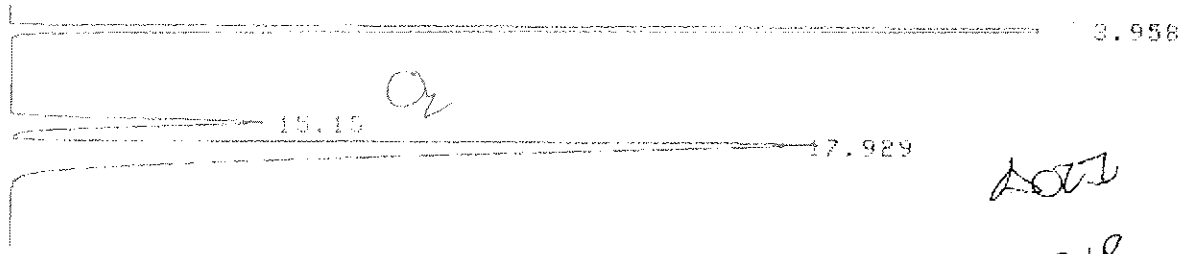
*NOT
-O2IA
d/p*

CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC
 CHANNEL NO 1
 SAMPLE NO 0
 REPORT NO 753

FILE 0
 METHOD 41

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.929 | 7574129 | | | 35.7809 | |
| 2 | 15.192 | 2309229 | | | 10.909 | |
| 3 | 17.986 | 11284708 | V | | 53.3101 | |
| TOTAL | | 21168064 | | | 100 | |

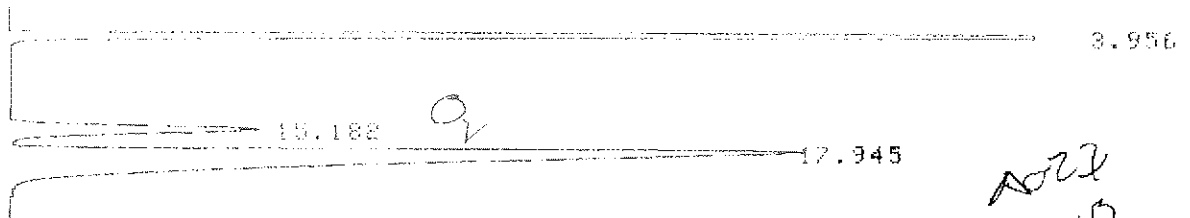


CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 754

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.958 | 7581895 | | | 35.8612 | |
| 2 | 15.15 | 2103685 | | | 9.9501 | |
| 3 | 17.929 | 11456744 | V | | 54.1887 | |
| TOTAL | | 21142322 | | | 100 | |

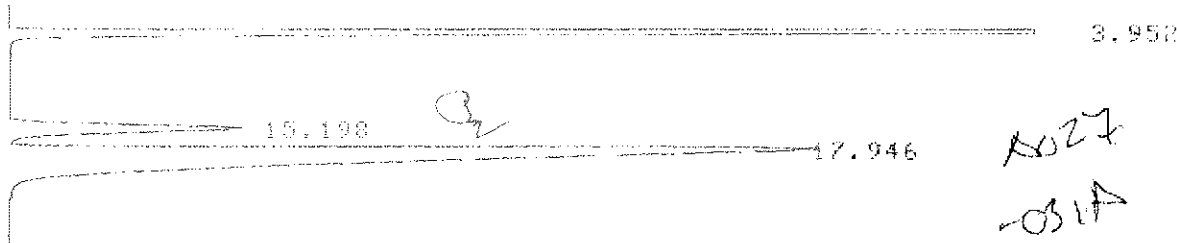


CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 755

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.956 | 7455079 | | | 35.7935 | |
| 2 | 15.182 | 2073752 | | | 9.9565 | |
| 3 | 17.945 | 11299220 | V | | 54.25 | |
| TOTAL | | 20828050 | | | 100 | |

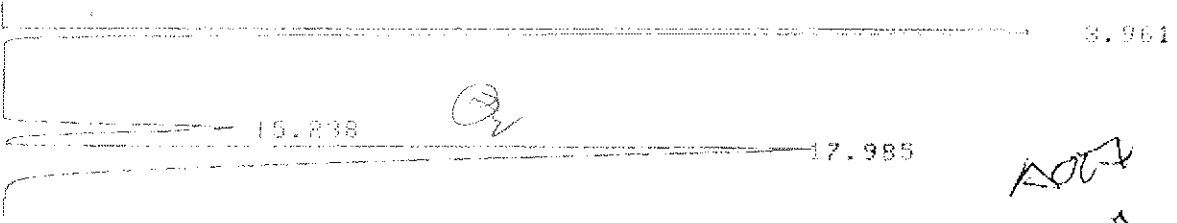


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 756

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.952 | 7620045 | | | 35.9766 | |
| 2 | 15.198 | 1933367 | | | 9.128 | |
| 3 | 17.946 | 11627131 | V | | 54.8953 | |
| TOTAL | | 21180542 | | | 100 | |

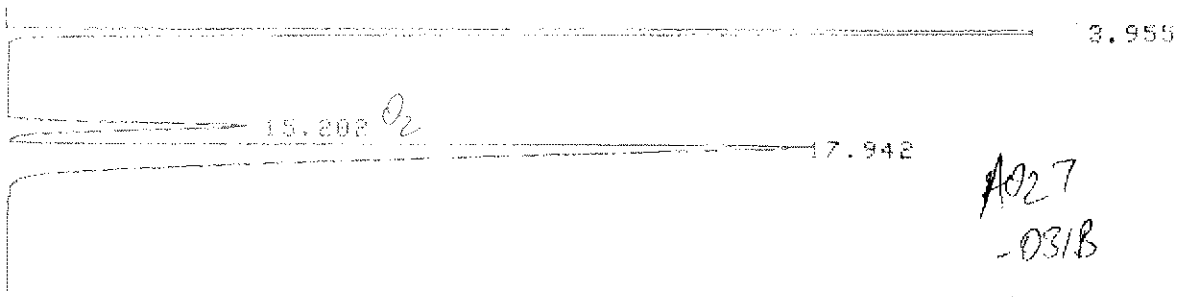


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 757

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.961 | 7492914 | | | 35.8042 | |
| 2 | 15.238 | 1924105 | | | 9.1942 | |
| 3 | 17.985 | 11510424 | V | | 55.0016 | |
| TOTAL | | 20927442 | | | 100 | |

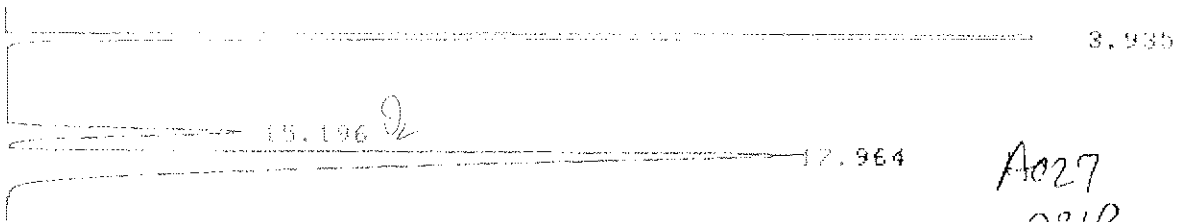


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 758

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.955 | 7556389 | | | 35.9558 | |
| 2 | 15.202 | 1988203 | | | 9.4605 | |
| 3 | 17.942 | 11471197 | V | | 54.5837 | |
| TOTAL | | 21015788 | | | 100 | |



CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 759

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.935 | 7500414 | | | 36.0836 | |
| 2 | 15.196 | 1966855 | | | 9.4623 | |
| 3 | 17.964 | 11318946 | V | | 54.4541 | |
| TOTAL | | 20786214 | | | 100 | |

TRAP ANALYSIS

Title : C:\Bruker\data\2021\Mar 25\2021-03-25 17:29-11 8 027 - 012 8 111 1 *.master.wqsmtd 25.3 3 ml loop 05-05-20_ICDranges - copy.run
Method File : C:\Bruker\MSMethods\Master 500KXD 25.3 3 ml Loop 05-05-20_ICDranges - copy.mth
Sample ID : A 027 - 012 A

Injection Date: 2021-03-25 17:29 Calculation Date: 2021-03-25 17:49
Operator : Douglass W. Detector Type: 4X-GC (1000 Volts)
Workstation: DESKTOP-6V15B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : FID Front : FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.0000 | 2.548 | 0.035 | 2224 | 98 | 0.0 | |
| 2 | Carbon Dioxide | 189.9943 | 3.778 | 0.338 | 1746550 | 86 | 18.3 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 189.9943 | | 0.373 | 1748774 | | | |

Status Codes:
M - Missing Peak

Total Unidentified Counts : 995 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 12 microVolts - monitored before this run

Manual Injection

.....

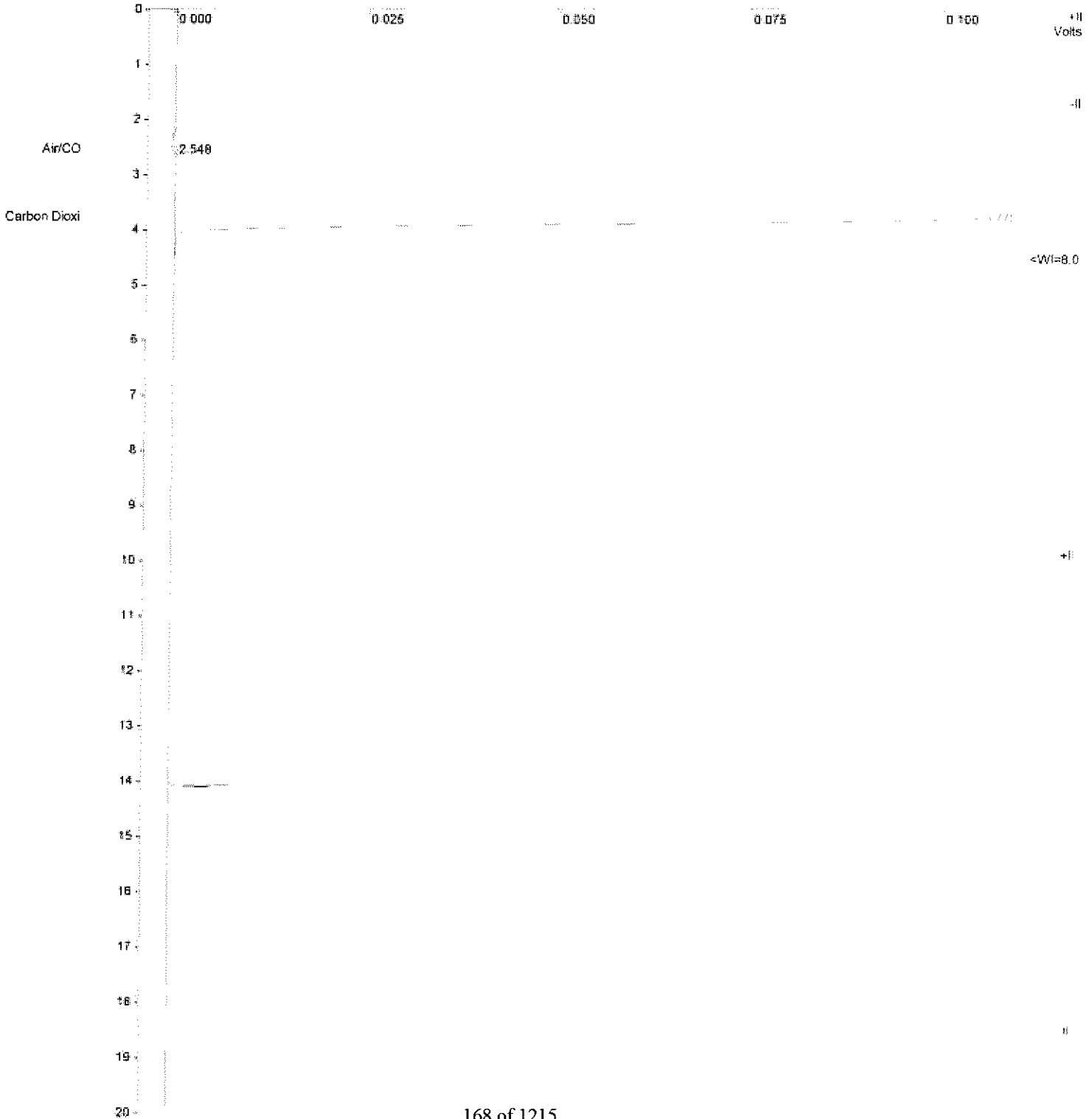
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 17:29-11 a 027 - 012 a inj 1 - master sqam2 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\sw\methods\Master_SQAM2 25.3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 012 A

Injection Date: 2021-03-25 17:29 Calculation Date: 2021-03-25 17:49

Operator : Douglass W. Detector Type: 45X-GC (1000 Volts)
Workstation: DESKTOP-6V15E Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** NWS 5.0.1 for SC109 Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 18
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\data\2021\mar_21\2021-03-25 17-55-25 a 027 - 012 a 1n2.i - master sqcmd 25.3 3 ml loop 05-05-20.tcdrange5 - copy.run
Method File : C:\bruker\MSMethods\Master_SQCMD 25.3 3 ml loop 05-05-20.tcdrange5 - copy.inth
Sample ID : A 027 - 012 A

Injection Date: 2021-03-25 17:55 Calculation Date: 2021-03-25 18:15

Operator : Douglas W. Detector Type: 4X-GC (1000 Volts)
Workstation: DESKTOP-EVLSH Bus Address : 44
Instrument : Lotus RMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS B.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.000 | 2.332 | 0.039 | 2202 | BB | 0.0 | |
| 2 | Carbon Diox1 | 190.3936 | 3.779 | 0.339 | 1750219 | VB | 16.3 | N |
| 3 | Ethane | 7.376 | | | | | | |
| Totals: | | 190.3936 | | 0.378 | 1752421 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 838 counts

Detected Peaks: 5 Rejected Peaks: 2 Identified Peaks: 3

Multiplicities: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (Used): 10 microVolts - monitored before this run

Manual Injection

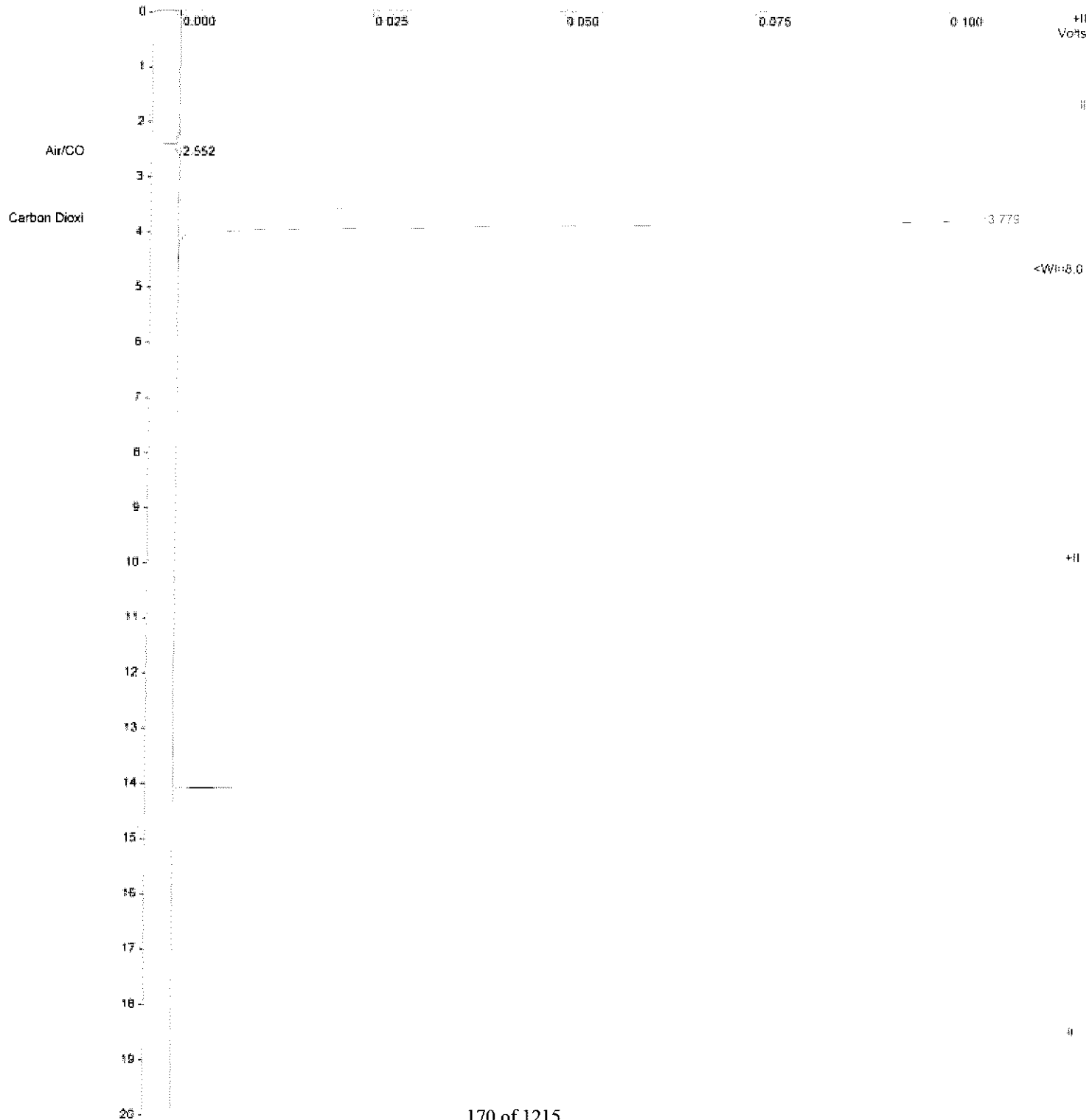
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 17:55:25 a 027 - 012 a inj 2 - master sqamq 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\SW\methods\Master SQAMQ 25.3 ml loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 012 A

Injection Date: 2021-03-25 17:55 Calculation Date: 2021-03-25 18:15

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSW 8.0.1 for SCIEX Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 18
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Nbruker\data\2021\Mar 21\2021-03-25 18-21-05 8 027 - 012 b.inj 1 - master sqcmd 25.3 3 ml loop 05-05-20.tcdrange5 - copy.run
Method File : C:\Nbruker\data\2021\Mar 21\2021-03-25 18-21-05 8 027 - 012 b.inj 1 - master sqcmd 25.3 3 ml loop 05-05-20.tcdrange5 - copy.mth
Sample ID : A 027 - 012 B

Injection Date: 2021-03-25 18:21 Calculation Date: 2021-03-25 18:41

Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Lotus NROC
Channel : Front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.000 | 2.548 | 0.035 | 2132 | BB | 0.0 | |
| 2 | Carbon Dioxide | 177.6434 | 3.778 | 0.338 | 1633026 | BB | 16.3 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 177.6434 | | 0.373 | 1635158 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 827 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 3

Multiplexer: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts USB: 1 microVolts

Noise (used): 13 microVolts - monitored before this run

Manual Injection

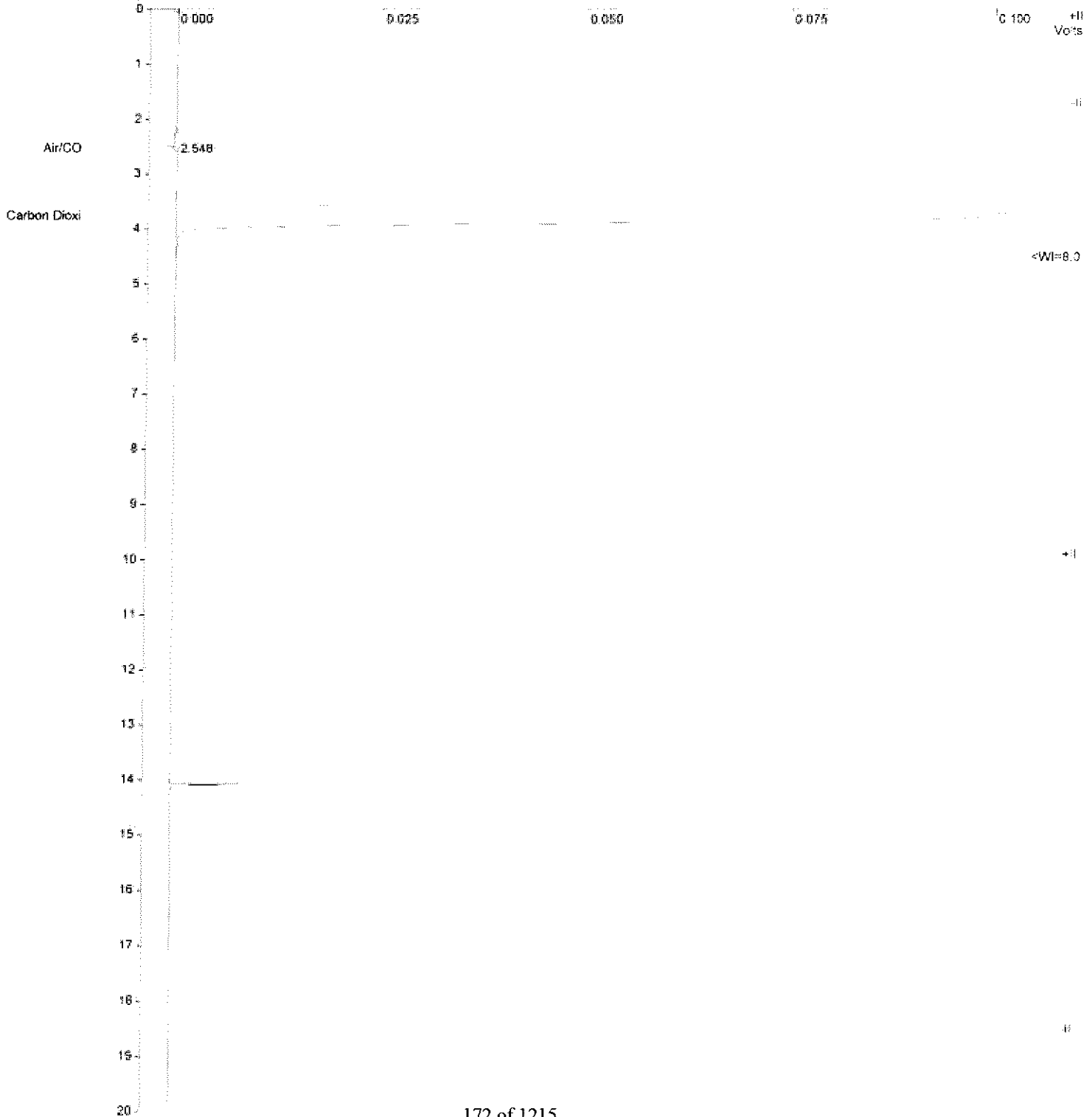
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 18-21-45 a 027 - 012 b in; 1 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\SW\methods\Master SQAQND 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 012 B

Injection Date: 2021-03-25 18:21 Calculation Date: 2021-03-25 18:41

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-EVLSB Bus Address : 44
Instrument : Lotus XMG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.3.1 for SCLON Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 18
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : C:\brukers\data\2021\mar_21\2021-03-25_16-46-04_a_027..._012_b_inj_2 - master.sqcmd 25.13 ml loop 95-05-20_bcdranges5 - copy.run
Method File : C:\brukers\methods\master_sqcmd_25.13 ml loop 95-05-20_bcdranges5 - copy.mth
Sample ID : A 027 - 012 B

Injection Date: 2021-03-25 19:48 Calculation Date: 2021-03-25 19:08
Operator : Douglass W. Detector Type: 4XX-GC (1060 Volts)
Workstation: DESKTOP-6V15B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 9.0.1 for SCIION Version 9.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (PPM) | Ret. Time (min) | Time Offset (min) | Area (counts) | Ref. Code | Width (s) | Status Codes |
|----------|---------------|--------------|-----------------|-------------------|---------------|-----------|-----------|--------------|
| 1 | Air/CO | 0.0000 | 2.548 | 0.035 | 2226 | 88 | 0.0 | |
| 2 | Carbon Dioxid | 177.5318 | 5.777 | 0.337 | 1632600 | 88 | 16.2 | X |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 177.5318 | | 0.372 | 1634826 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 934 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 10 microVolts - monitored before this run

Manual Injection

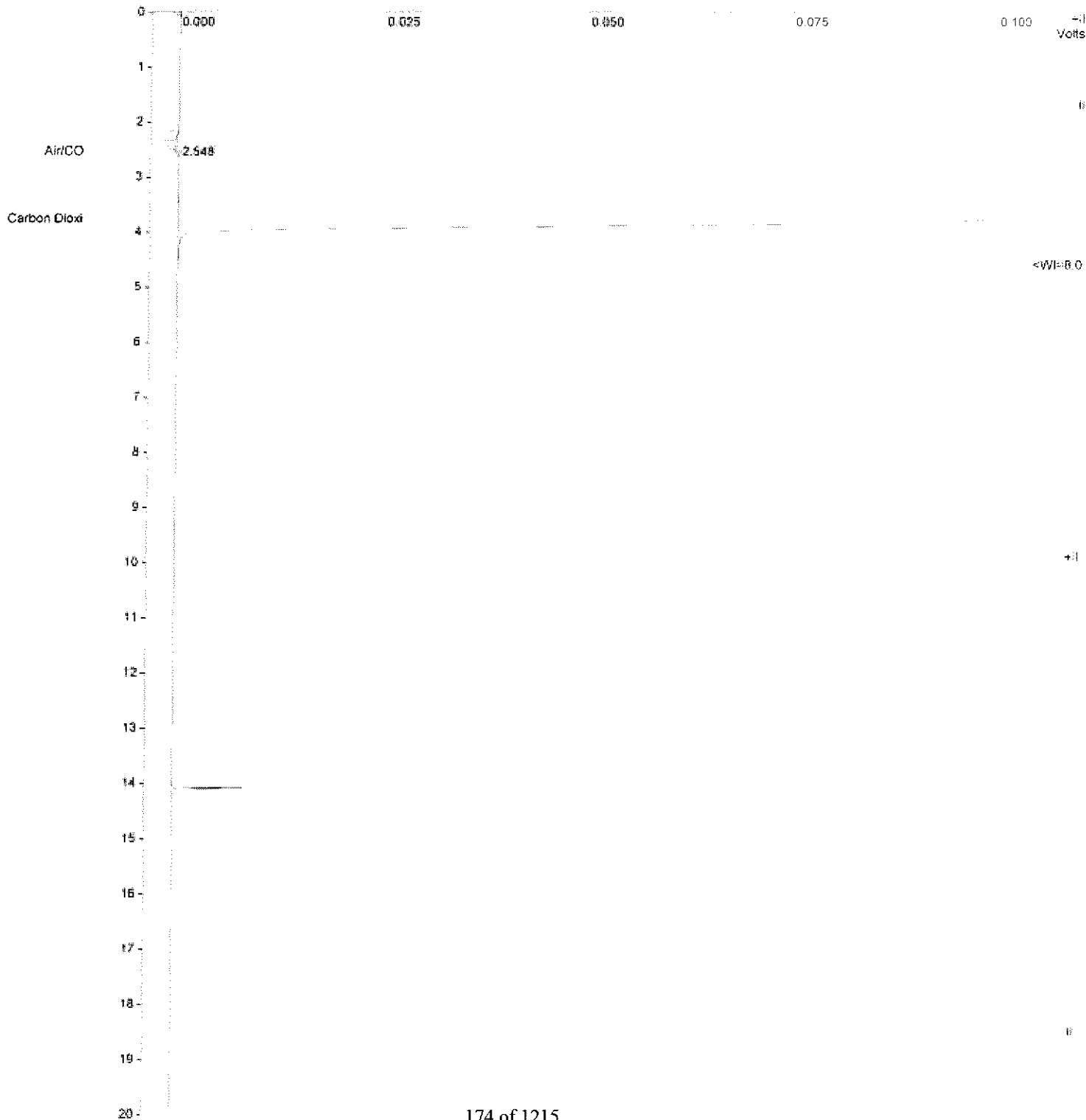
Title :
 Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 18-46-04 a 027 - 012 b inj 2 - master sqacqd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\bruker\sw\methods\master sqacqd 25.3 3 ml loop 05-05-20_TCDrange5 - Copy.mth
 Sample ID : A 027 - 012 B

Injection Date: 2021-03-25 18:46 Calculation Date: 2021-03-25 19:08

Operator : Douglass W. Detector Type: 4XX-CC (1000 Volts)
 Workstation: DESKTOP-6VZ53 Bus Address : 44
 Instrument : Lotus NMOC Sample Rate : 5.00 Hz
 Channel : Front = FTD Run Time : 20.000 min

** NGS 2.0.1 for 3010N Version 3.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 18
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2021-03-25 19:14 Calculation Date: 2021-03-25 19:34
 Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VL5B Bus Address: 44
 Instrument: Lotus NMOC Sample Rate: 5.00 Hz
 Channel: Front = FID Run Time: 20.000 min

** NSW5 9.0.1 for SCION Version 9.0.1 ** 02037-3701-ABI-415C **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Max. Conc. (ppm) | Width (Sec) | Status Counts |
|----------|----------------|---------------|-----------------|-------------------|---------------|------------------|-------------|---------------|
| 1 | Air/CO | 0.0000 | 2.532 | 0.039 | 1982 | BB | 0.0 | |
| 2 | Carbon Dioxide | 680.6503 | 9.780 | 0.340 | 6254850 | BB | 16.4 | M |
| 3 | Ethane | 7.376 | | | | | | |
| Totals: | | 680.6503 | | 0.379 | 6256832 | | | |

Status Codes:
 M - Missing peak

Total Unidentified Counts: 754 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 16 microVolts LSB: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual injection

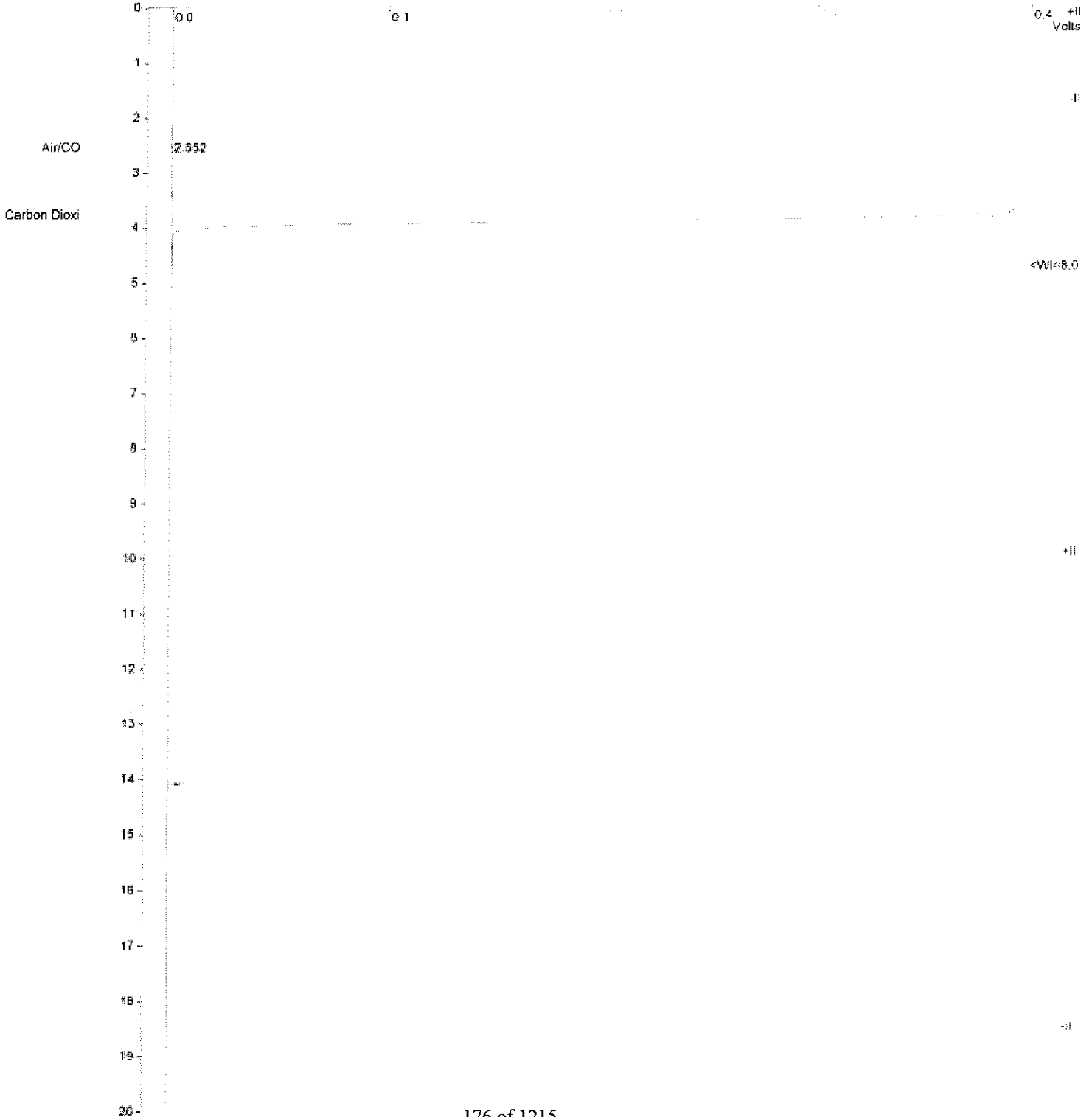
Title :
Run File : c:\brukerws\data\2021\mar 21\2021-03-25 19-14-25 a 027 - 022 a inj 1 - master sqamg 25.3 3 ml loop 05-05-20_tcdrange3 - copy.run
Method File : C:\brukerWS\methods\Master SQAMG 25.3 3 ml Loop 05-05-20_TCDrange3 - Copy.mch
Sample ID : A 027 - 022 A

Injection Date: 2021-03-25 19:14 Calculation Date: 2021-03-25 19:34

Operator : Douglass W. Detector Type: 4XX-SC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus FIDC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** NWS 5.0.1 for SCTX Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : c:\bruker\data\2021\mar_21\2021-03-25_19-40-40_a_027 - 022_a_1rj_2 - master.ssqmcd 25.3 3 m: loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\sw\methods\master_SQCMD 25.3 3 ml Loop 05-05-20_tcdrange5 - Copy.mch
Sample ID : A_027 - 022 A

Injection Date: 2021-03-25 19:40 Calculation Date: 2021-03-25 20:00

Operator : Douglass W.
Workstation: DESKTOP-6VL6B
Instrument : Lotus NMOC
Channel : Front = FID

** MSMS 8.0.1 for SCIEN Version 8.0.1 ** 02057-3701-AB1-416C **

Run Mode : Analysis
Peak Measurement: External
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (1/2 Code (sec)) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|------------------------|--------------|
| 1 | Air/CO | 0.0000 | 2.550 | 0.037 | 2042 | SB | 0.0 | |
| 2 | Carbon Dioxi | 681.3337 | 3.778 | 0.338 | 6261127 | SB | 16.4 | M |
| 3 | Ethane | | 7.376 | | | | | |
| TOTALM: | | 681.3337 | | 0.375 | 6261168 | | | |

Status Codes:
M - Missing Peak

Total Unidentified Counts : 976 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSP: 1 microVolts

Noise (used): 13 microVolts - monitored before this run

Manual Injection

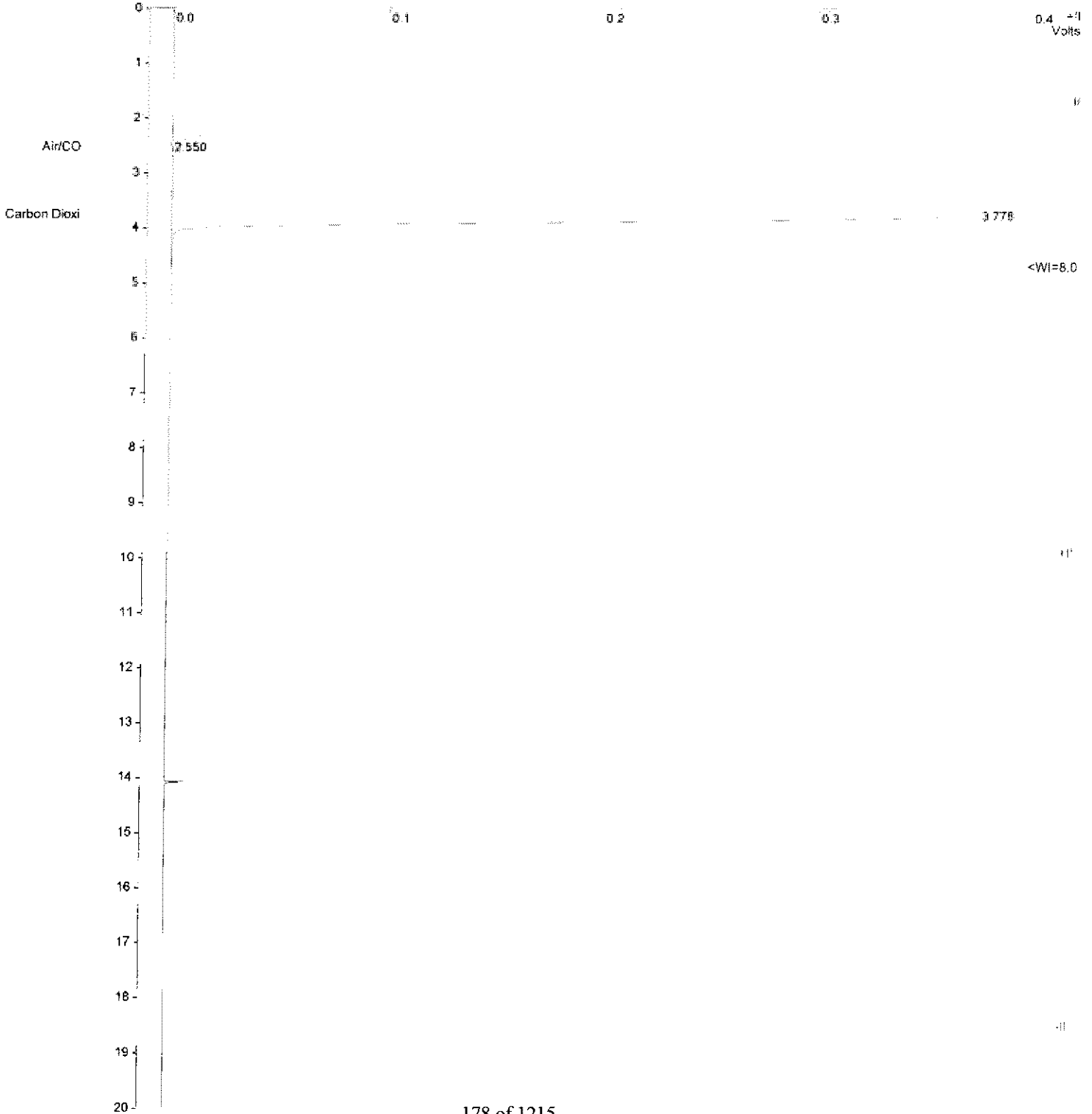
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 19-40-40 a 027 - 022 a inj 2 - master sqamcd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\SW\methods\Master_SQAMCD 25.3 3 ml loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 022 A

Injection Date: 2021-03-25 19:40 Calculation Date: 2021-03-25 20:00

Operator : Douglass W. Detector Type: 43X-GC (1300 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus EMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIOW Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-02-25_20-06-57 a 027 - 022 b inj 1 - master 884qms 15.3 3 ml loop 05-05-20_tcdxanges - copy.run
Run File : C:\bruker\data\2021\mar_21\2021-02-25_20-06-57 a 027 - 022 b inj 1 - master 884qms 15.3 3 ml loop 05-05-20_tcdxanges - copy.run
Method File : C:\bruker\data\2021\mar_21\2021-02-25_20-06-57 a 027 - 022 b inj 1 - master 884qms 15.3 3 ml loop 05-05-20_tcdxanges - copy.mth
Sample ID : A 027 - 022 B

Injection Date: 2021-03-25 20:06 Calculation Date: 2021-03-25 20:26
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V1EB Bus Address: 44
Instrument: Lotus NMOC Sample Rate: 5.00 Hz
Channel: FID Front: FID Run Time: 20.000 min

* MSWS 8.0.1 for SCIION Version 8.0.1 * 02037-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No | Peak Name | Result (ppm) | Ret. Time (min) | Area (counts) | Width (sec) | Status Codes |
|---------|--------------|--------------|-----------------|---------------|-------------|--------------|
| 1 | Air/CO | 0.0000 | 2.548 | 2956 | PV 1.9 | |
| 2 | Carbon Dioxl | 601.5848 | 3.775 | 5528579 | BB 16.4 | |
| 3 | Ethane | | 7.376 | | | M |
| Totals: | | 601.5848 | 0.370 | 5531435 | | |

Status Codes:
M - Missing Peak

Total Unidentified Counts : 2159 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3

Multiplic: 1 Divisor: 1 Unidentified Peak Factor: 3

Baseline effect: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual Injection

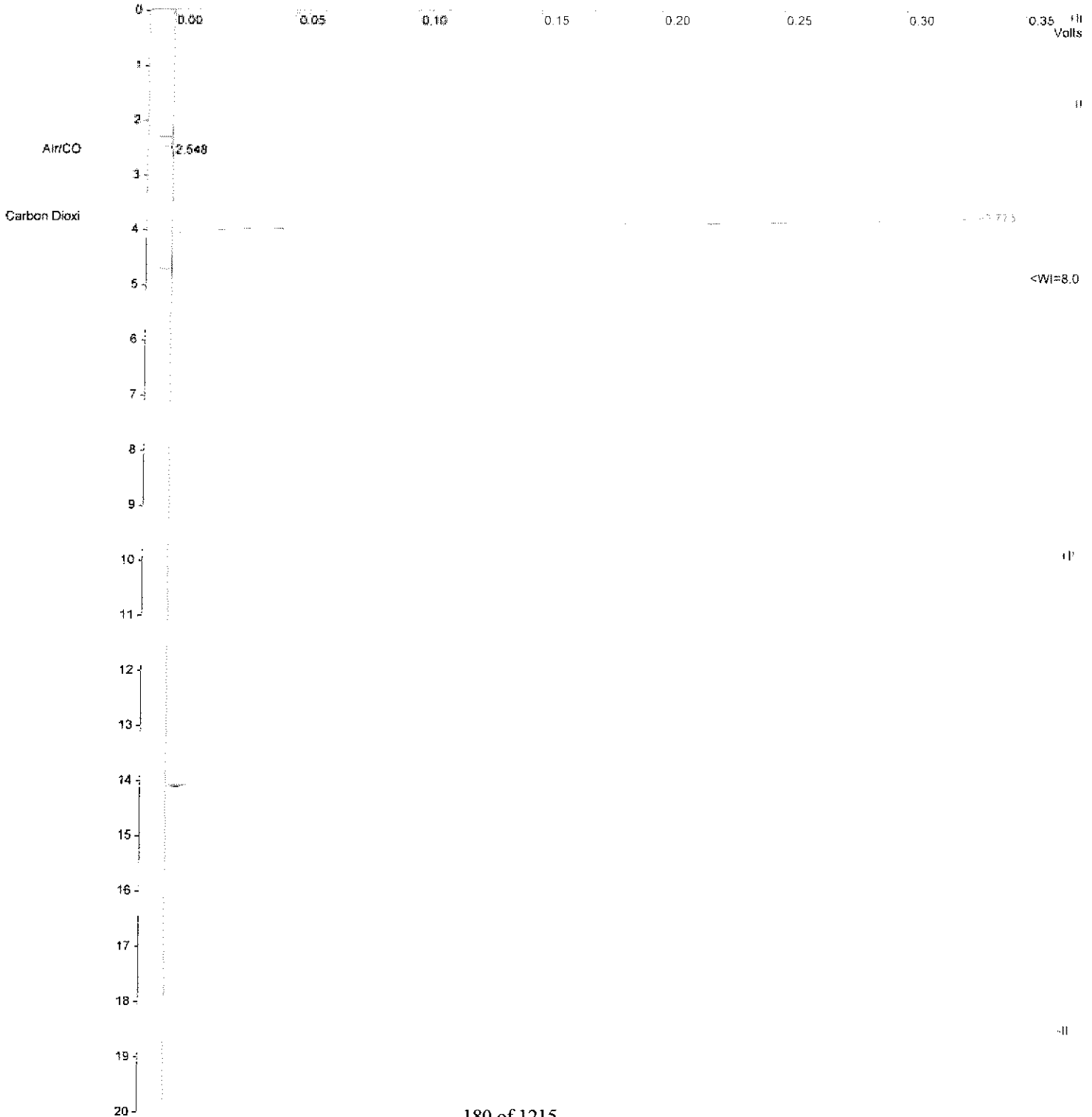
Title :
 Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 20-06-57 a 027 - 022 b.m; 1 - master sqam2 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\Bruker\SW\methods\Master SQAQMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mh
 Sample ID : A 027 - 022 B

Injection Date: 2021-03-25 20:06 Calculation Date: 2021-03-25 20:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VLSB Bus Address : 44
 Instrument : Lotus KNOX Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 5.0.1 ** 02057-3701-ARI-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brakes\data\2021\mar 21\2021-03-25 20:33-11 a 027 - 022 b 1.r 2 - master.ssqmtd 25.3 3 ml loop 05-05-20 _TCDrange5 , Copy.run
Method File : C:\brakes\methods\master_SQAMD 25.3 3 ml Loop 05-05-20 _TCDrange5 , Copy.mth
Sample ID : A 027 - 022 B

Injection Date: 2021-03-25 20:33 Calculation Date: 2021-03-25 20:53
Operator : Douglas W. Detector Type: 4X-SC (1000 Volts)
Workstation: DESKTOP-6VJL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AR1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppm) | Ret. Time (min) | Area (counts) | Area (ppm) | Ret. Time (min) | Width (sec) | Height (1/2) | Status Code |
|----------|-------------|--------------|-----------------|---------------|------------|-----------------|-------------|--------------|-------------|
| 1 | Air/CO | 0.0000 | 2.551 | 0.038 | 3670 | 0.376 | 15.4 | 5527554 | M |
| 2 | Carbon Diox | 601.4733 | 3.779 | 0.339 | 5527554 | 0.376 | 15.4 | 5527554 | M |
| 3 | Ethane | 601.4733 | 7.376 | 0.377 | 5527554 | 0.377 | 15.4 | 5527554 | M |
| Totals: | | | | | | | | | |

Status Codes:
M - Missing Peak

Total Unidentified Counts : 4989 counts

Detected Peaks: 11 Rejected Peaks: 4 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 9

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 6 microVolts - monitored before this run

Manual injection

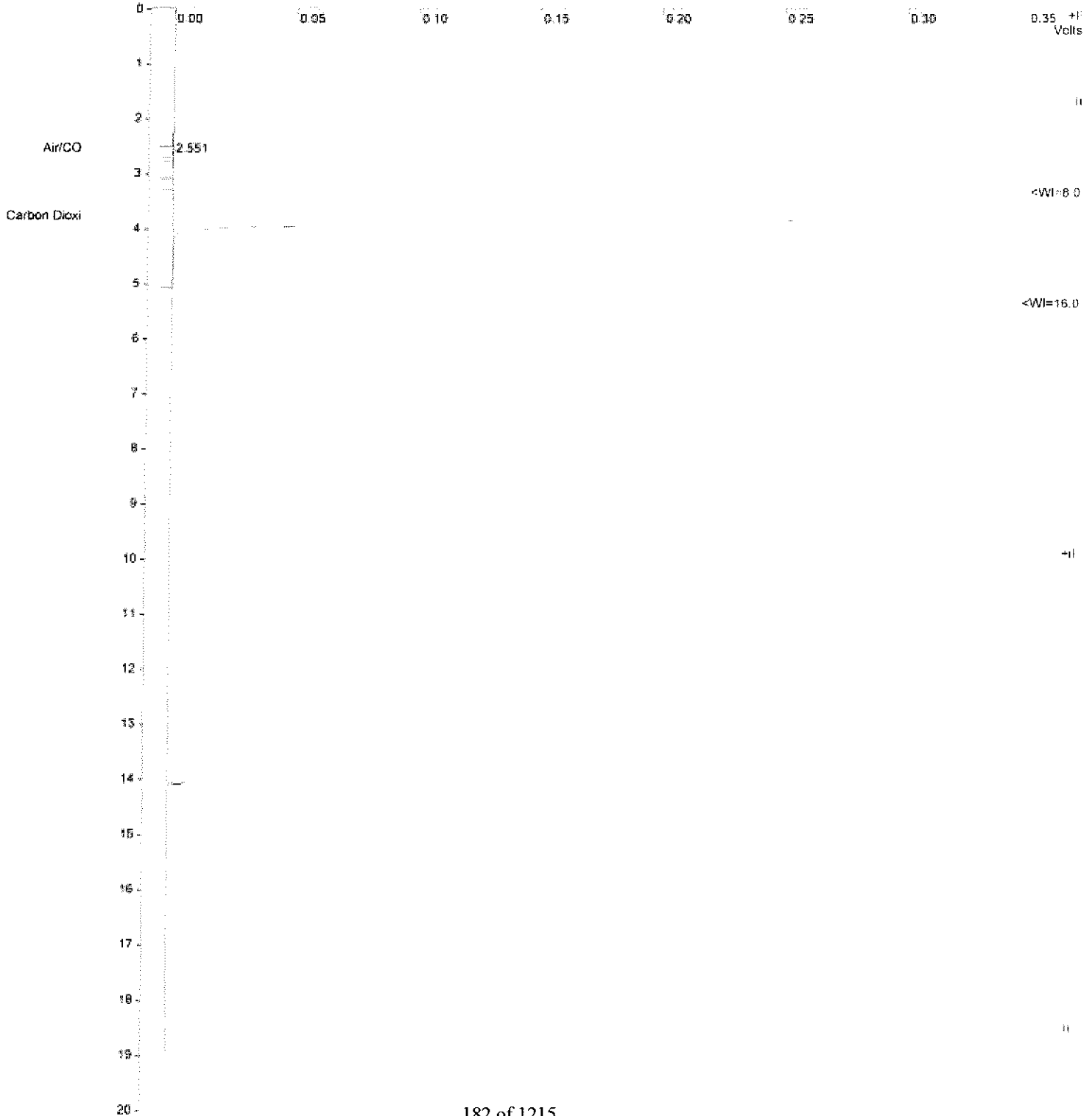
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 20:33-11 a 027 - 022 b in 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.mn
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 022 B

Injection Date: 2021-03-25 20:33 Calculation Date: 2021-03-25 20:53

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NWC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\sw\data\2021\mar_21\2021-03-25_20-59-29_9_027 - 032_# 15) 1 - master_sqdm6 25.3_3 ml loop 05-05-20_tcdratq45 - copy.ruh
Run File : C:\bruker\sw\data\2021\mar_21\2021-03-25_20-59-29_9_027 - 032_# 15) 1 - master_sqdm6 25.3_3 ml loop 05-05-20_tcdratq45 - copy.ruh
Method File : C:\bruker\sw\methods\kaster_sqdm6 25.3_3 ml loop 05-05-20_tcdratq45 - copy.mth
Sample ID : A 027 - 932 A

Injection Date: 2021-03-25 20:59 Calculation Date: 2021-03-25 21:19

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15B Bus Address : 44
Instrument : Lotus N50C Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Rep. Code | Width 1/2 (sec) | Status Codes |
|----------|-------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.552 | 0.039 | 3432 | BY | 2.4 | |
| 2 | Carbon Diox | 410.6594 | 3.778 | 0.338 | 3774468 | VB | 16.2 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 410.6594 | | 0.377 | 3777900 | | | |

Status Codes:
M -- Missing peak

Total Unidentified Counts : 2378 counts

Detected Peaks: 0 Rejected Peaks: 4 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 9 microVolts LSH: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual Injection

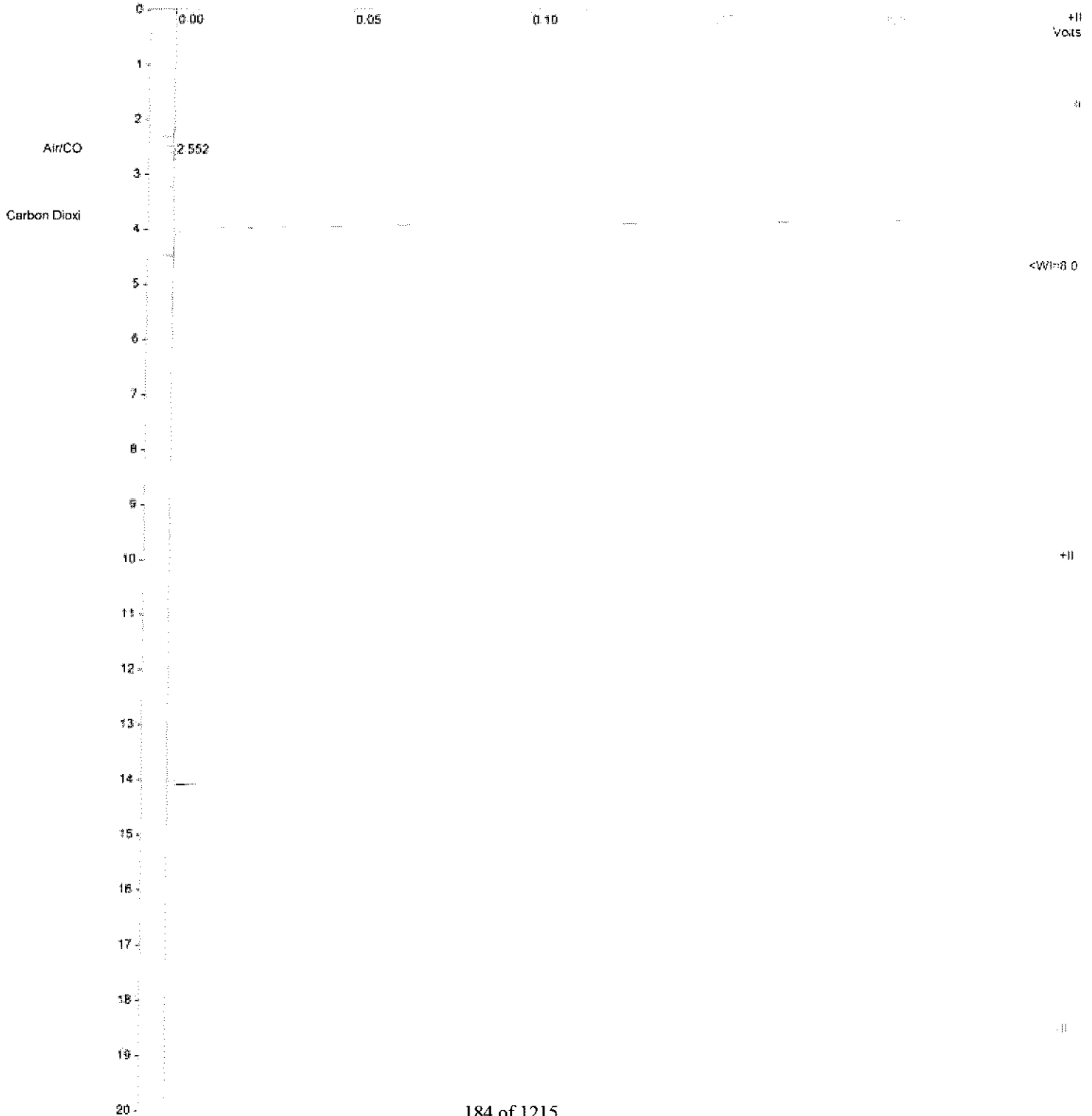
Title :
 Run File : c:\brukerws\data\2021\mar_21\2021-03-25 20:59:29 a 027 - 032 a inj 1 - master sqagmd 25.3 3 ml loop 05-05-20_pcdrange5 - copy.run
 Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
 Sample ID : A 027 - 032 A

Injection Date: 2021-03-25 20:59 Calculation Date: 2021-03-25 21:19

Operator : Douglass W. Detector Type: 4XX-GC (1600 Volts)
 Workstation: DESKTOP-6VLS6 Bus Address : 44
 Instrument : Lotus NHDC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS B.C.I for SCION Version 5.0.1 ** 02057-3701-ABI-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 38
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-03-25_21:25-49 a 027 - 032 a inj 2 - master.stand 25.3 3 ml loop 05-05-20_fcdranges - copy.run
Method File : C:\bruker\methods\master\stand 25.3 3 ml loop 05-05-20_fcdranges - copy.mth
Sample ID : A 027 - 032 A

Injection Date: 2021-03-25 21:25 Calculation Date: 2021-03-25 21:45
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLS8 Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 * 02057-3701-ARI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width Code (sec) | Status |
|----------|---------------|---------------|-----------------|-------------------|---------------|-----------|------------------|--------|
| 1 | Air/CO | 0.0000 | 2.551 | 0.038 | 2281 | BB | 0.0 | |
| 2 | Carbon Dioxid | 409.0535 | 3.777 | 0.337 | 3759712 | BB | 16.2 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 409.0535 | 0.375 | | 3761993 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 862 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 19 microVolts - monitored before this run

Manual injection

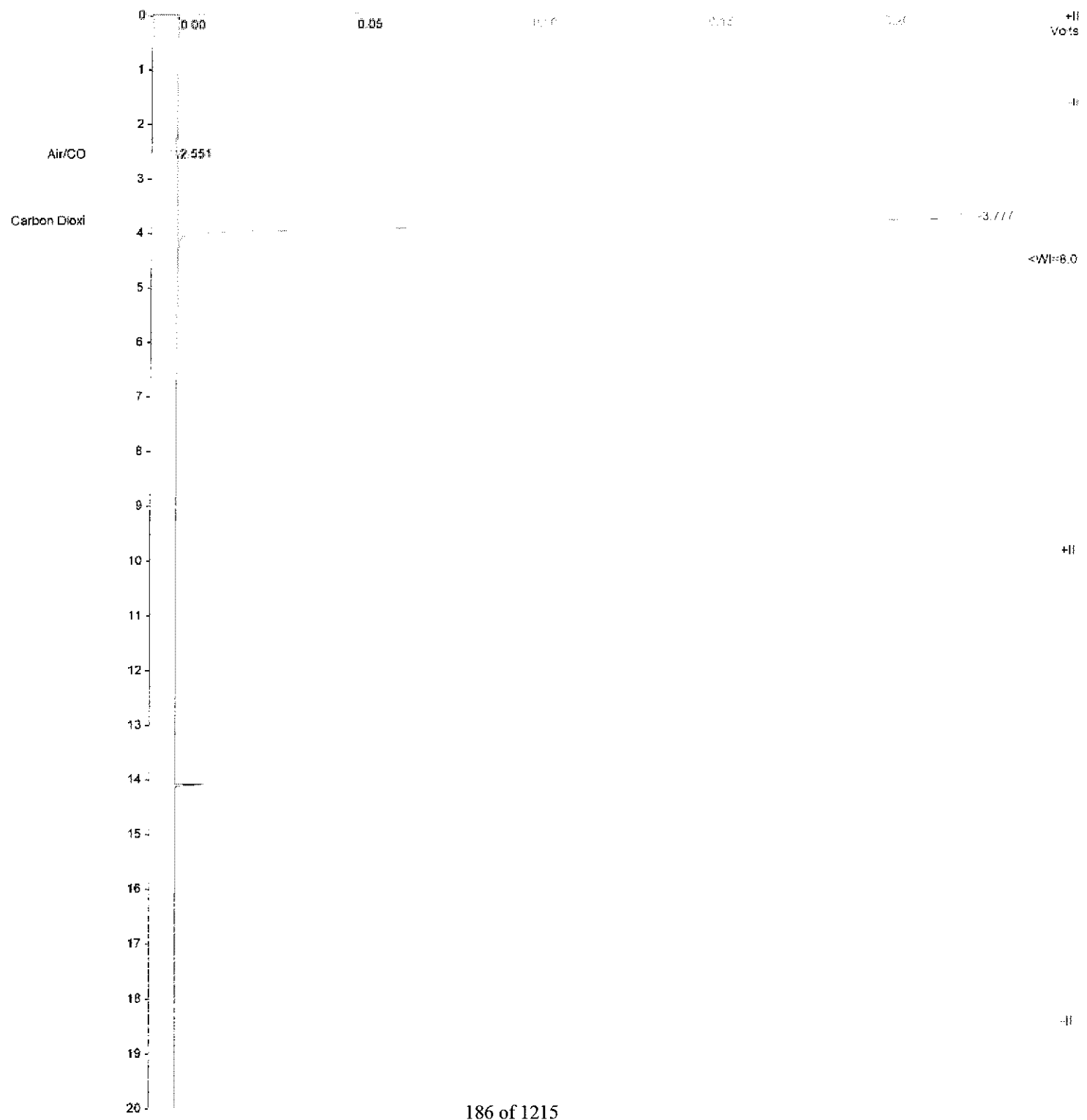
Title :
 Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 21:25:49 a 027 - 032 a inj 2 - master sqdmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\Bruker\SW\methods\Master SQDMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mch
 Sample ID : A 027 - 032 A

Injection Date: 2021-03-25 21:25 Calculation Date: 2021-03-25 21:45

Operator : Douglass W. Detector Type: 4XX-GC (2000 Volts)
 Workstation: DESKTOP-6V75R Bus Address : 44
 Instrument : Lotus N90C Sample Rate : 5.00 Hz
 Channel : Front - FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 8.0.1 ** 02057-3761-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 28
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\data\2021\mar_21\2021-03-25 21-52-16 a 027 - 032 b inj 1 - master sqcmd 25.3 3 ml loop 05-05-20_tandem.ms - copy.run
Method File : 2021-03-25 21-52-16 a 027 - 032 b inj 1 - master sqcmd 25.3 3 ml loop 05-05-20_tandem.ms - copy.run
Sample ID : A 027 - 032 B

Injection Date: 2021-03-25 21:52 Calculation Date: 2021-04-06 10:00
Operator : Douglas W. Detector Type: 4X-GC (1000 volts)
Workstation: DESKTOP-6V1L5B Bus Address : 44
Instrument : Lottas NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** NSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ARI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No | Peak Name | Result (ppm) | Ret. Time (min) | Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|---------|--------------|--------------|-----------------|--------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.000 | 2.550 | 0.037 | 3354 | BB | 2.1 | |
| 2 | Carbon Dioxl | 403.0158 | 3.778 | 0.338 | 3707234 | BB | 16.2 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 403.0158 | 0.375 | | 3707568 | | | |

Status Codes:
M = Missing Peak

Total Unidentified Counts : 8032 counts

Detected Peaks: 12 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 7 microVolts - monitored before this run

Manual Injection

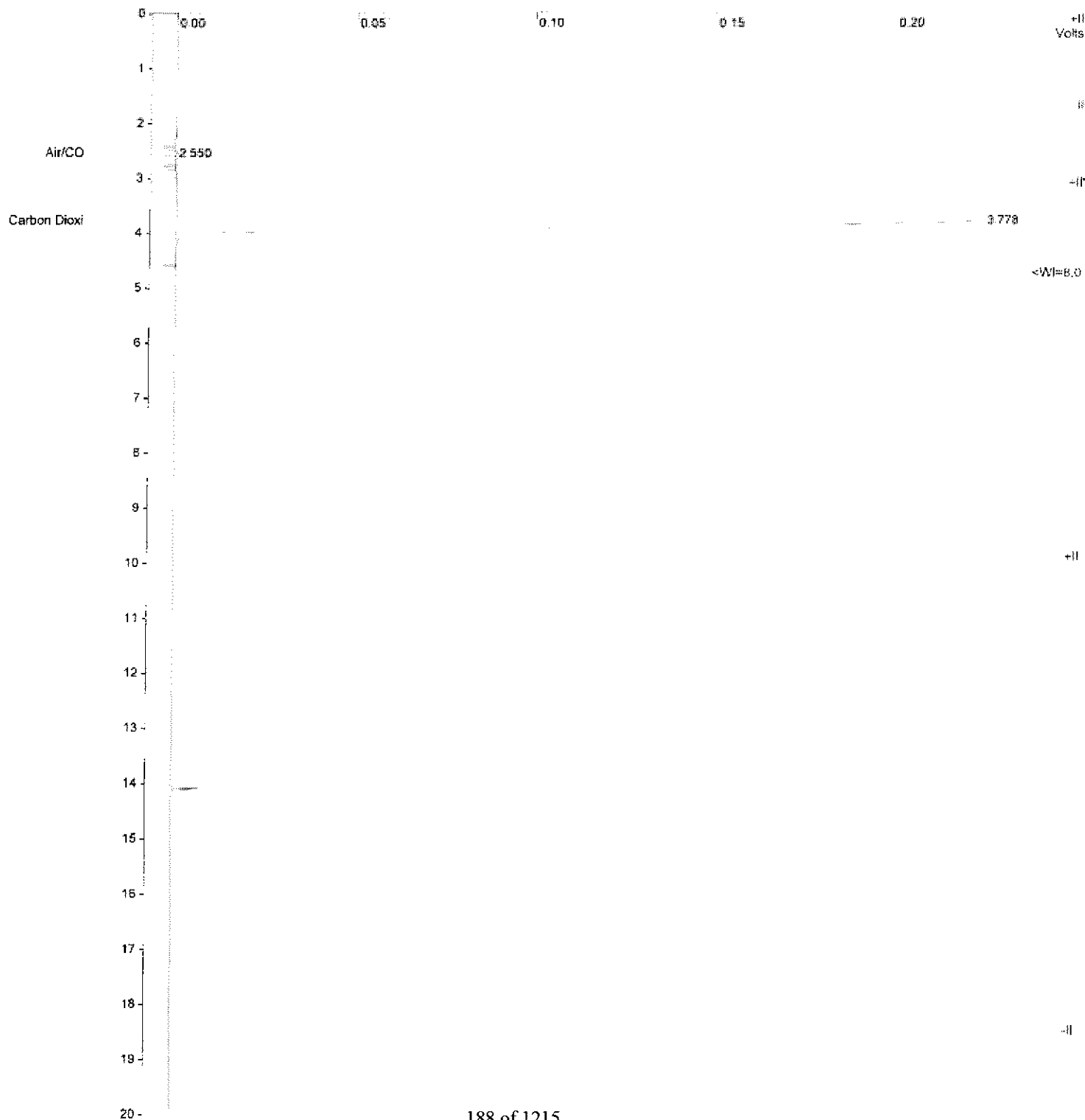
Title :
 Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 21:52-16 a 027 - 032 b inj 1 - master sqsqnd 25.3 ml loop 05-05-20_tcdrange3 - copy.run
 Method File : 2021-03-25 21:52-16 a 027 - 032 b inj 1 - master sqsqnd 25.3 ml loop 05-05-20_tcdrange3 - copy-front.mth
 Sample ID : A 027 - 032 B

Injection Date: 2021-03-25 21:52 Calculation Date: 2021-04-06 10:30

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VH5B Bus Address : 44
 Instrument : Lotus NMOG Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCLION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 28
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar 21\2021-03-25 22-18-39 a 027 - 032 b 1r1 2 - master scanned 25.3 3 ml loop 05-05-20_tdranges - copy.run
 Run File : C:\bruker\data\2021\mar 21\2021-03-25 22-18-39 a 027 - 032 b 1r1 1 - master scanned 25.3 3 ml loop 05-05-20_tdranges - copy-front.mn
 Method File : 2021-03-25 21-52-16 a 027 - 032 b 1r1 1 - master scanned 25.3 3 ml loop 05-05-20_tdranges - copy-front.mn
 Sample ID : A 027 - 032 B
 Injection Date: 2021-03-25 22:18 Calculation Date: 2021-04-06 10:00
 Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6V15B Bus Address : 44
 Instrument : Lotus NIOC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min
 ** MSWS 8.0.1 for SCION Version 9.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
 Peak Measurement: Peaks
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|-------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | AlzCO | 0.0000 | 2.550 | 0.037 | 3213 | B7 | 2.2 | |
| 2 | Carbon Diox | 403.0850 | 3.779 | 0.339 | 3704870 | BB | 16.1 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 403.0850 | | 0.376 | 3708083 | | | |

Status Codes:
 M - Missing peak
 Total Unidentified Counts : 3977 counts
 Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 12 microVolts - monitored before this run
 Manual Injection

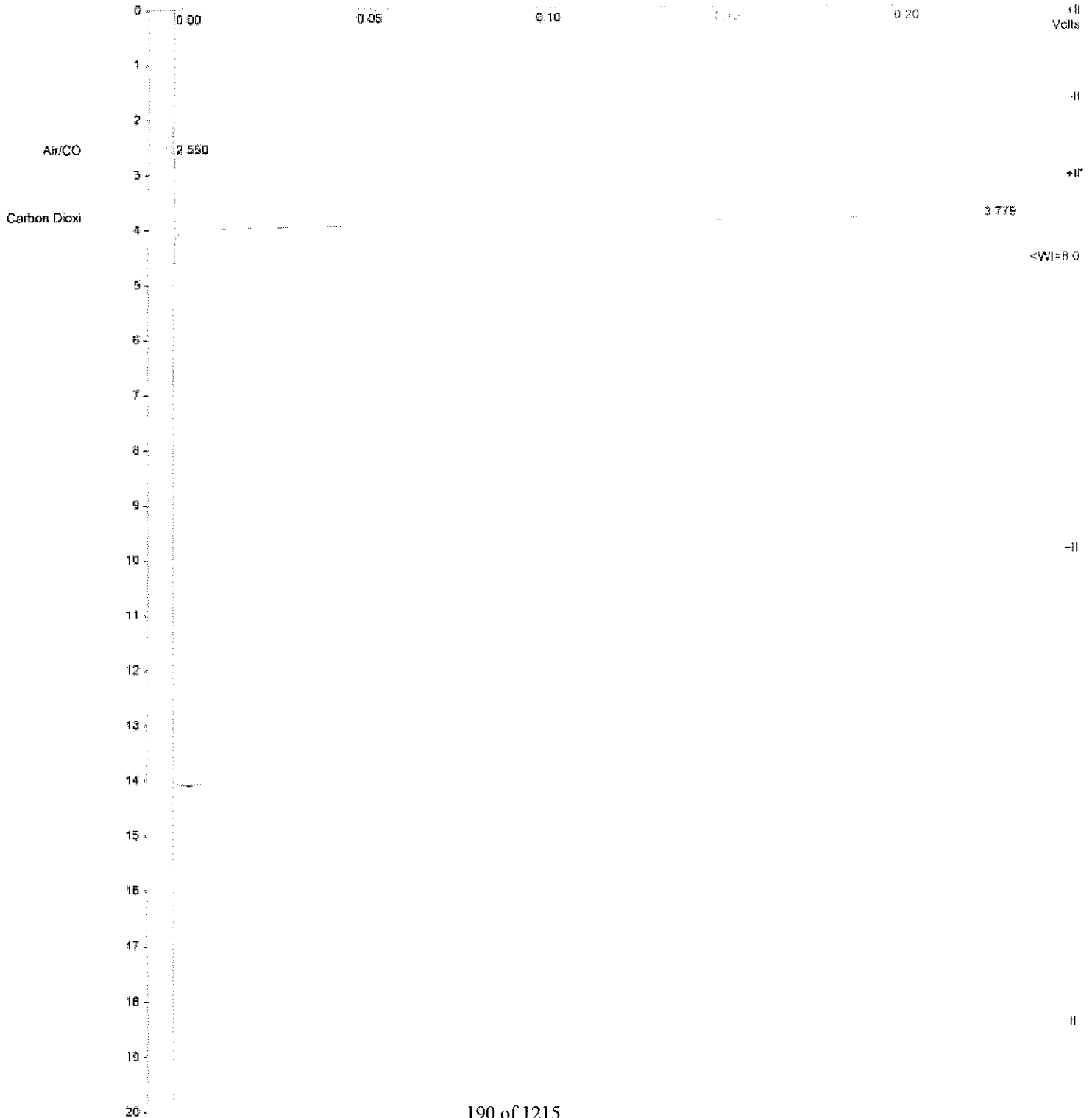
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 22-18-39 a 027 - 032 b inj 2 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-25 21-52-16 a 027 - 032 b inj 1 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-front.mth
Sample ID : A 027 - 032 B

Injection Date: 2021-03-25 22:18 Calculation Date: 2021-04-06 10:00

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-69765B Bus Address : 44
Instrument : Lotus NMGC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-A61-6130 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 20
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



QAQC

Injection Date: 2021-03-25 09:08 Calculation Date: 2021-03-25 09:28
 Operator : Douglas M.
 Workstation: DESKTOP-6VL5B
 Instrument : Lotus NNOG
 Channel : Front = FID
 Detector Type: 4XX-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** NEWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **
 Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Exp. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Alr/CO | 0.0000 | 2.476 | -0.037 | 571 | VP | 0.0 | |
| 2 | Carbon Diox1 | 0.0597 | 3.577 | 0.237 | 549 | VV | 9.2 | |
| 3 | Sthane | | 7.376 | | | | | M |
| Totals: | | | | | 0.0597 | 1120 | | |

Status Codes:
 M - Missing Peak
 Total Unidentified Counts : 3302 counts
 Detected Peaks: 48 Rejected Peaks: 39 Identified Peaks: 3
 Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts IBB: 1 microVolts
 Noise (used): 5 microVolts - monitored before this run
 Manual Injection

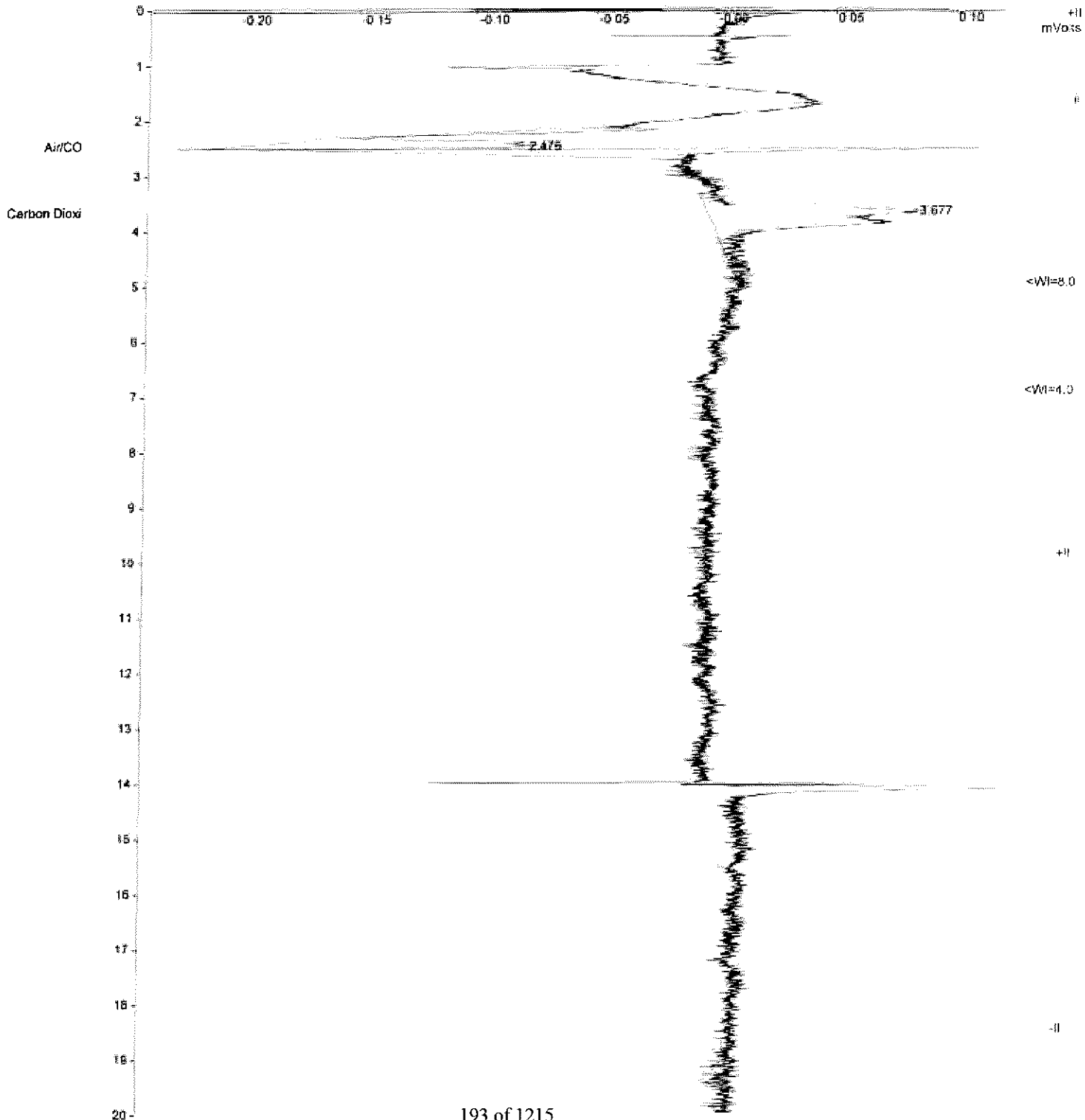
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 09-08-15 n2 blank 01205 inj 2 - master sqaomd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\MS\methods\Master_SQAOMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 blank 01205

Injection Date: 2021-03-25 09:08 Calculation Date: 2021-03-25 09:28

Operator : Douglass W. Detector Type: 4EX-GC (1000 Volts)
Workstation: DESKTOP-6VLS8 Bus Address : 44
Instrument : Lotus NMG0 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCLON Version 8.0.1 ** 02057-3701-REI-4150 **

Start Speed - 0.99 cm/min Attenuation = 1 Zero Offset = 0s
Start Time - 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerwv\data\2021\mar_21\2021-03-25_09-09-15 n2 blank 01205 inj 2 - Master.sqcmd ?b.3 ml loop 05-05-20_rcdrange5 - copy.rur
Method File : C:\Bruker\MS\Methods\Master\SQCMD 23.3 3 ml Loop 05-05-20_rcdrange5 - Copy.mth
Sample ID : N2 blank 01205

Injection Date: 2021-03-25 09:08 Calculation Date: 2021-03-25 09:28

Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Lotus NMOG
Channel : Middle = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Width Sep. Code (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------------|--------------|
| 1 | Methane | 0.07 | 5.360 | -0.000 | 115 | BV 6.4 | |
| 2 | Carbon Monox | 0.58 | 6.180 | 0.315 | 1001 | VV 23.8 | |
| 3 | NNNEOC | 0.08 | 16.732 | -0.447 | 1716 | BB 43.8 | |
| Totals: | | | | | | 0.73 | 2834 |

Total Unidentified Counts : 3869 counts

Detected Peaks: 16 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts -- fixed value

Noise (monitored before this run): 19 microVolts

Manual injection

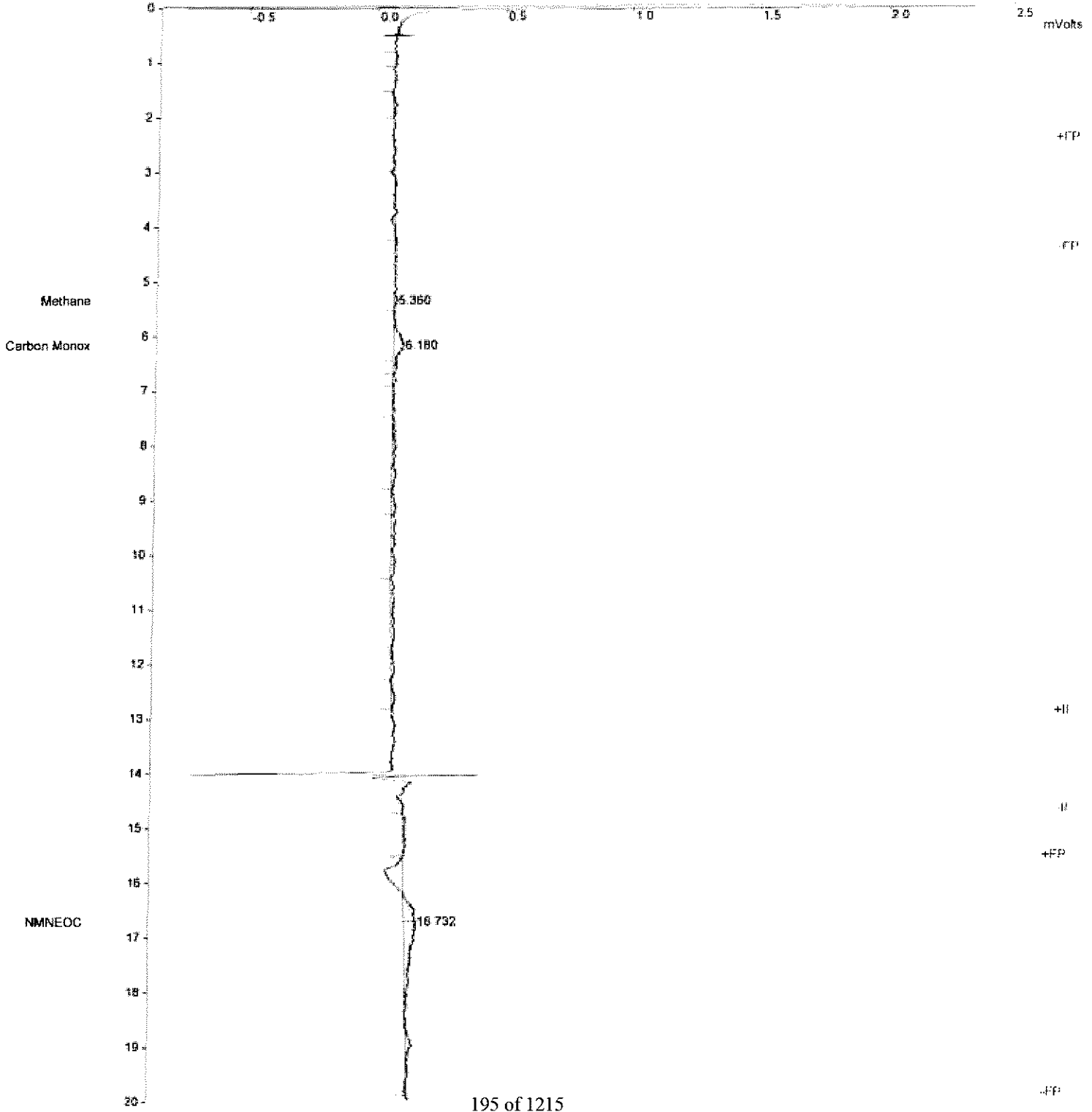
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 09-08-15 n2 blank 01205 inj 2 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.rur
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 blank 01205

Injection Date: 2021-03-25 09:06 Calculation Date: 2021-03-25 09:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V756 Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 20.000 min

** MSWS 8.0.1 For SCION Version 8.6.1 ** 02057-3701-AS1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Exc Offset = 0?
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukers\data\2021\max_2\2021-03-25 10-27-18 5 ppm mix inj 3 - master sqcmd 25.3 3 ml loop 05-05-20_tcdranges5 - copy.run
Method File : C:\brukers\methods\master_sqcmd 25.3 3 ml Loop 05-05-20_tcdranges5 - copy.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-25 10:27 Calculation Date: 2021-03-25 10:47
Operator : Douglas W. Detector Type: 4XX-6C (1000 Volts)
Workstation: DESKTOP-6VL5E Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 9.0.1 for SCION Version 9.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Ret. Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.499 | -0.014 | 23921 | VP | 21.0 | |
| 2 | Carbon Dioxi | 5.0434 | 3.772 | 0.332 | 46368 | VP | 16.7 | |
| 3 | Ethane | 4.6504 | 7.499 | 0.123 | 43900 | VP | 26.3 | |
| Totals: | | | | | 9.6938 | | 114189 | |

Total Unidentified Counts : 53887 counts
Detected Peaks: 99 Rejected Peaks: 94 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 3 microVolts - monitored before this run
Manual Injection

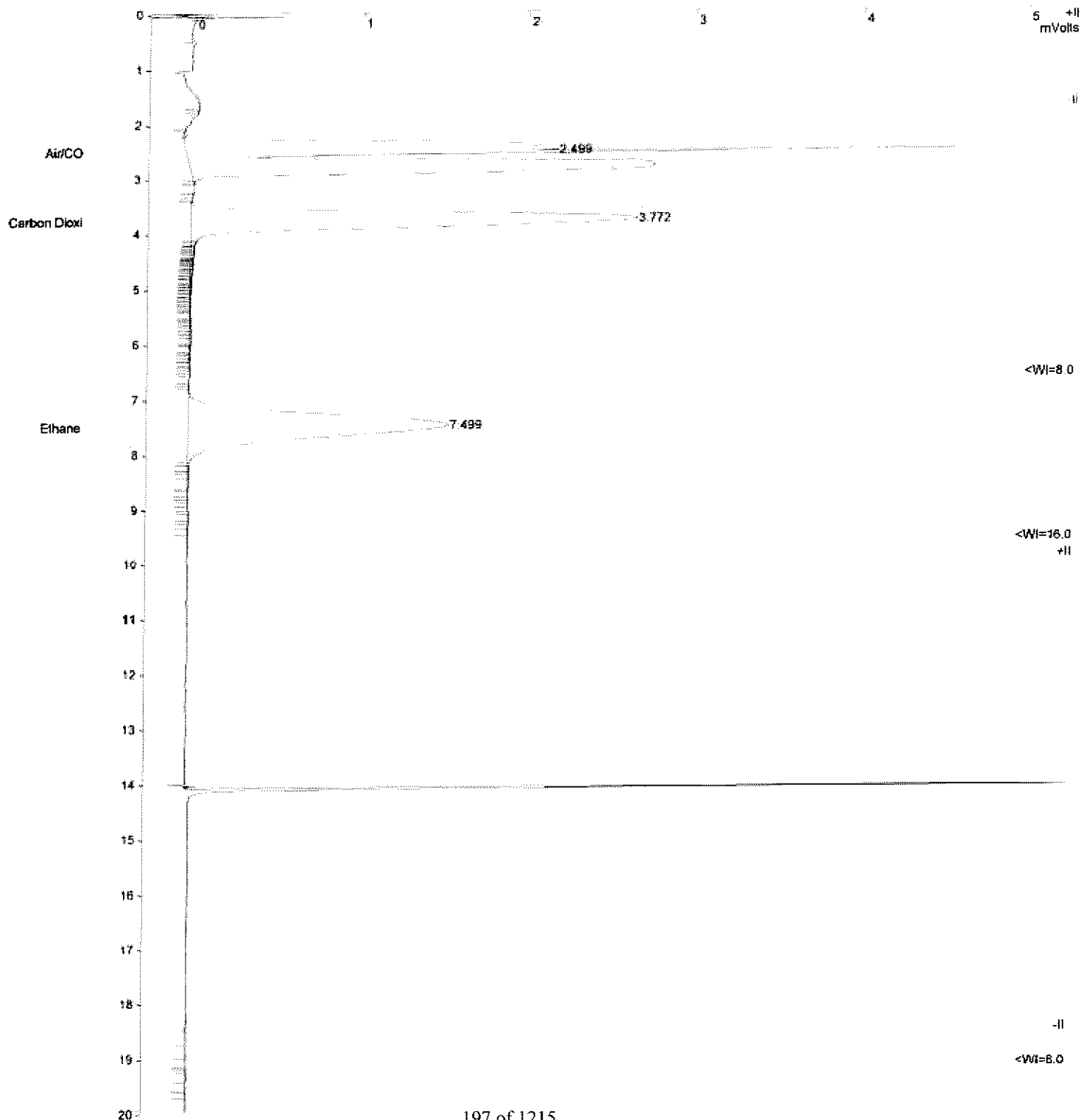
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 10-27-18 5 ppm mix inj 3 - master sq&md 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\MS\methods\Master SQ&MD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-25 10:27 Calculation Date: 2021-03-25 10:47

Operator : Douglas W. Detector Type: 4EX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerws\data\2021\mar_21\2021-03-25 10-27-18 5 ppm mix inj 3 - master sqdgmnd 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqdgmnd 25.3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-25 10:27 Calculation Date: 2021-04-06 13:18

Operator : Douglass M.
Workstation: DESKTOP-GVLSB
Instrument : Lotus NMOG
Channel : MDDite = FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.900 min

** MMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (Counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.27 | 5.437 | 0.077 | 8437 | BV | 16.4 | |
| 2 | Carbon Monox | 5.57 | 6.182 | 0.297 | 9643 | VB | 21.2 | |
| 3 | NMRGOC | 7.76 | 16.035 | -1.144 | 156800 | BB | 26.5 | |
| Totals: | | 18.60 | | -0.770 | 175040 | | | |

Total Unidentified Counts : 3678 counts

Detected Peaks: 18 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 12 microVolts

Manual Injection

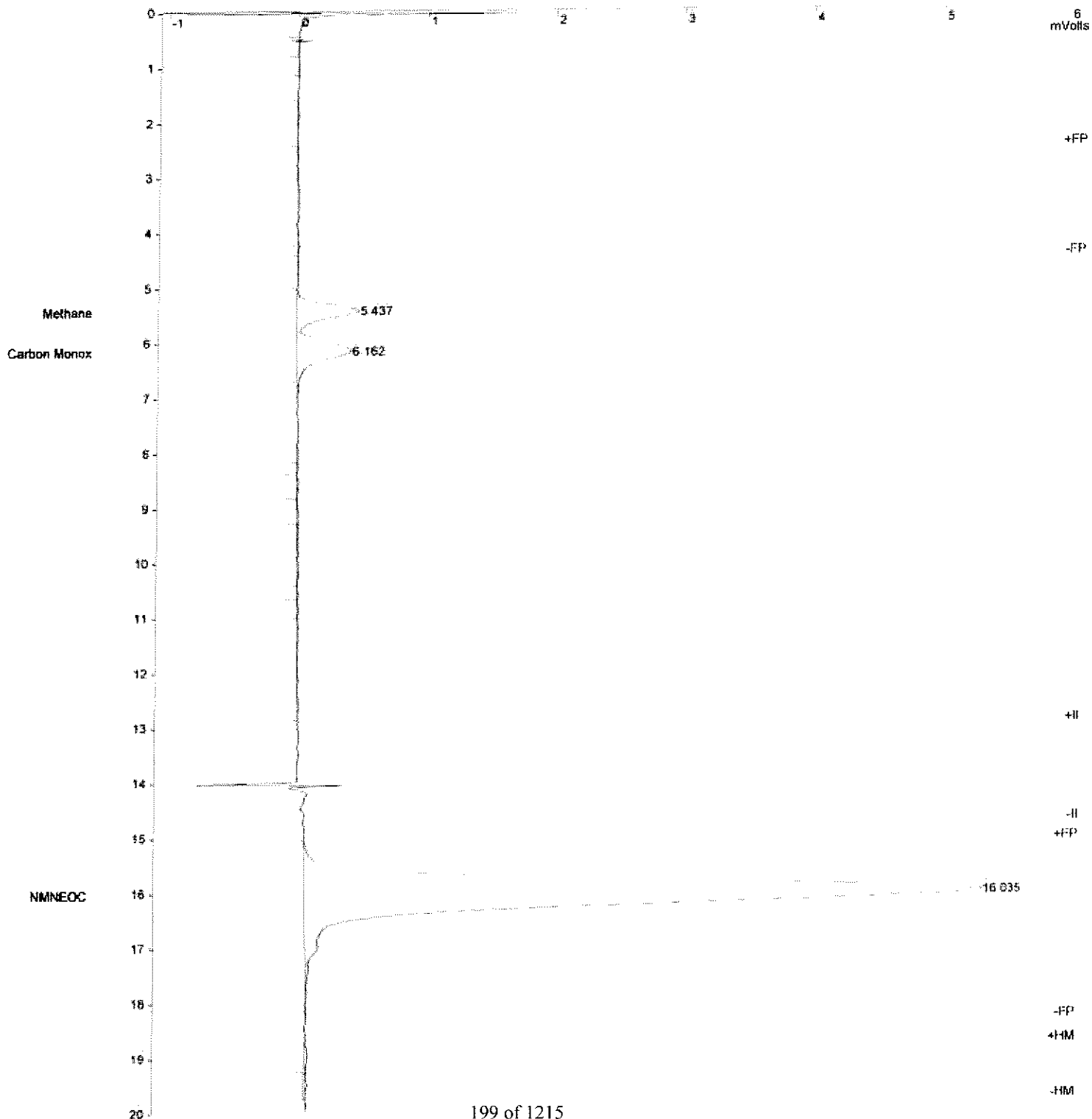
Title :
Run File : c:\bruker\vs\data\2021\mar_21\2021-03-25 10-27-18 5 ppm mix inj 3 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-25 10:27 Calculation Date: 2021-04-06 13:18

Operator : Douglass W. Detector Type: EXX-GC (1000 Volts)
Workstation: DESKTOP-EVL5B Bus Address : 44
Instrument : Lotus NMGC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerws\data\2021\mar_21\2021-03-25_11-20-01_system blank.inj 2 - master.sqaqmd 25.3 ml loop 05-05-20_1cdchanges - copy.run
Run File : c:\brukerws\data\2021\mar_21\2021-03-25_11-20-01_system blank.inj 2 - master.sqaqmd 25.3 ml loop 05-05-20_1cdchanges - copy.run
Method File : C:\brukerws\methoda\Master_SQAQMD 25.3 ml loop 05-05-20_1cdchanges - Copy.mth
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:40

Operator : Douglass W.
Workstation: DESKTOP-6VLS8
Instrument : Lotus NMGDC
Channel : Front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02957-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width 1/2 (sec) | Status Code |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-----------------|-------------|
| 1 | Air/CO | 0.0000 | 2.552 | 0.039 | 3221 | BB | 0.0 | |
| 3 | Stibon Dioxl | 0.0480 | 3.667 | 0.227 | 441 | BB | 0.0 | |
| Totals: | | | | | | | | M |
| 0.0480 | | | | | | | | 3762 |

Status Codes:
M - Missing peak

Total Unidentified Counts : 1468 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplexer: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual injection

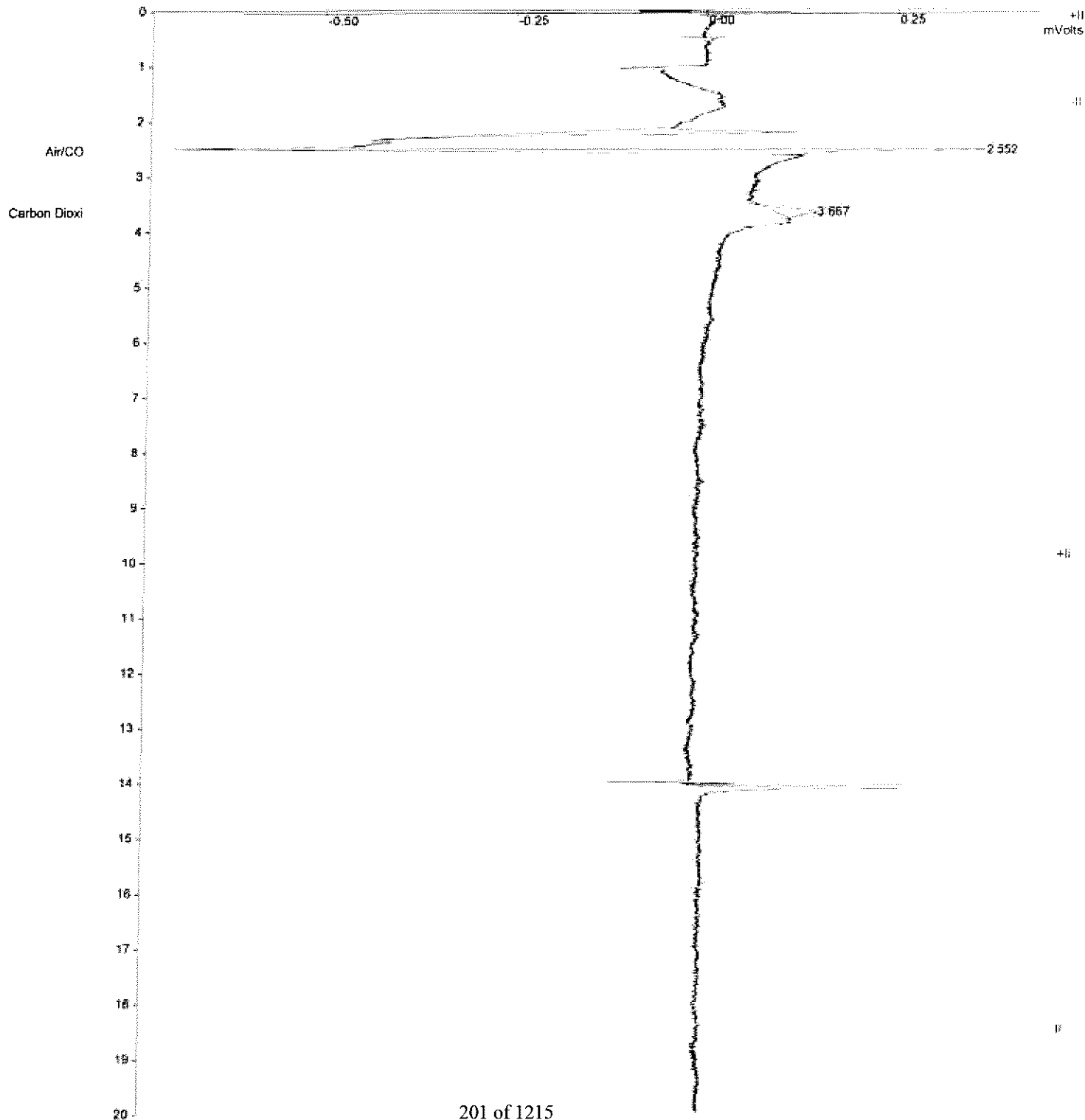
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 11:20-01 system blank inj 2 - master sqamc 25.3 3 ml loop 05-05-20_scdrange5 - copy.run
Method File : C:\Bruker\SW\methods\Master SQAMC 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:40

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus RMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-A81-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 08
Start Time = 0.000 min. End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerms\data\2021\mar_21\2021-03-25_11-20-01_system blank 1.rj 2 - master sqcmd 25.3 3 ml Loop 05-05-20_rcdrange5 - copy.run
Run File : C:\brukerms\data\2021\mar_21\2021-03-25_11-20-01_system blank 1.rj 2 - master sqcmd 25.3 3 ml Loop 05-05-20_rcdrange5 - copy.run
Method File : C:\brukerms\methods\Master SQCMD 25.3 3 ml Loop 05-05-20_rcdrange5 - Copy.mth
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:40

Operator : Douglass W.
Workstation: DESKTOP-6V45B
Instrument : Lotus NMOG
Channel : Middle = FID

Detector Type: FXX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width 1/2 (sec) | Status Code |
|----------|---------------|---------------|-----------------|-------------------|---------------|-----------------|-----------------|-------------|
| 1 | Mechane | | 5.360 | | | | | # |
| 2 | Mechane Monox | 2.80 | 6.164 | 0.299 | 4846 | BR | 23.2 | # |
| 3 | NMEOC | 0.01 | 15.316 | -1.663 | 162 | BR | 0.0 | |
| Totals: | | 2.81 | | -1.364 | 5008 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 18342 counts

Detected Peaks: 10 Rejected Peaks: 0 Identified Peaks: 3

Multiplicar: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts ISE: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 6 microVolts

Manual injection

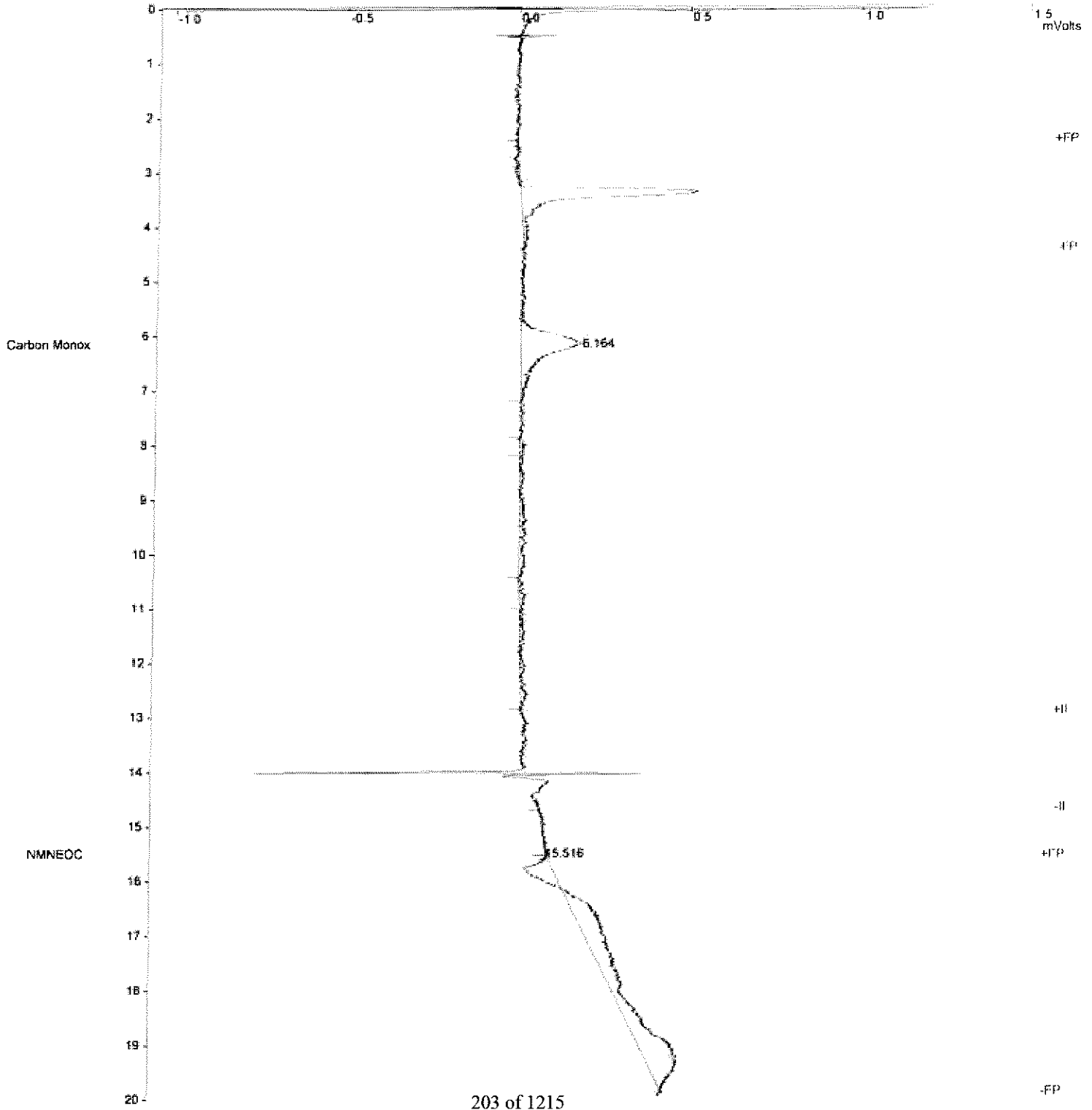
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 11-20-01 system blank inj 2 - master sqamrd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.mn
Method File : C:\Bruker\MS\methods\Master SQAMRD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.rnh
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:49

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V155 Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 08
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\BrukerMS\data\2021\mar_21\2021-03-25_23-11-31_2000_ppm_mlx_inj_2 : Master sqagmd 25.3 3 ml loop 05-05-20_lcdchanges - copy.run
File : C:\BrukerMS\Methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_LCDchanges : Copy.mth
Method File : 2000 ppm mlx
Sample ID : 2000 ppm mlx

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-03-25 23:11
Operator : Douglass W.
Workstation: DESKTOP-6V159
Instrument : Lotus NMCC
Channel : Front = FID

Detector Type: 6XX-CC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min
** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. 1/2 Cods (sec) | Width | Status Codes |
|----------|---------------|---------------|-----------------|-------------------|---------------|---------------------|-------|--------------|
| 1 | Air/CO | 0.000 | 2.439 | -0.014 | 11641956 | RV | 21.8 | |
| 2 | Carbon Dioxii | 1968.5909 | 3.778 | 0.338 | 18074282 | VB | 14.9 | |
| 3 | Ethane | 2089.7637 | 7.478 | 0.102 | 18206122 | RB | 26.3 | |
| Totals: | | 4058.3545 | 0.426 | | 48142372 | | | |

Total Unidentified Counts : 22988416 counts
Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: C
Baseline Offset: 0 microVolts USB: 1 microVolts
Noise (used): 10 microVolts - monitored before this run

Manual Injection

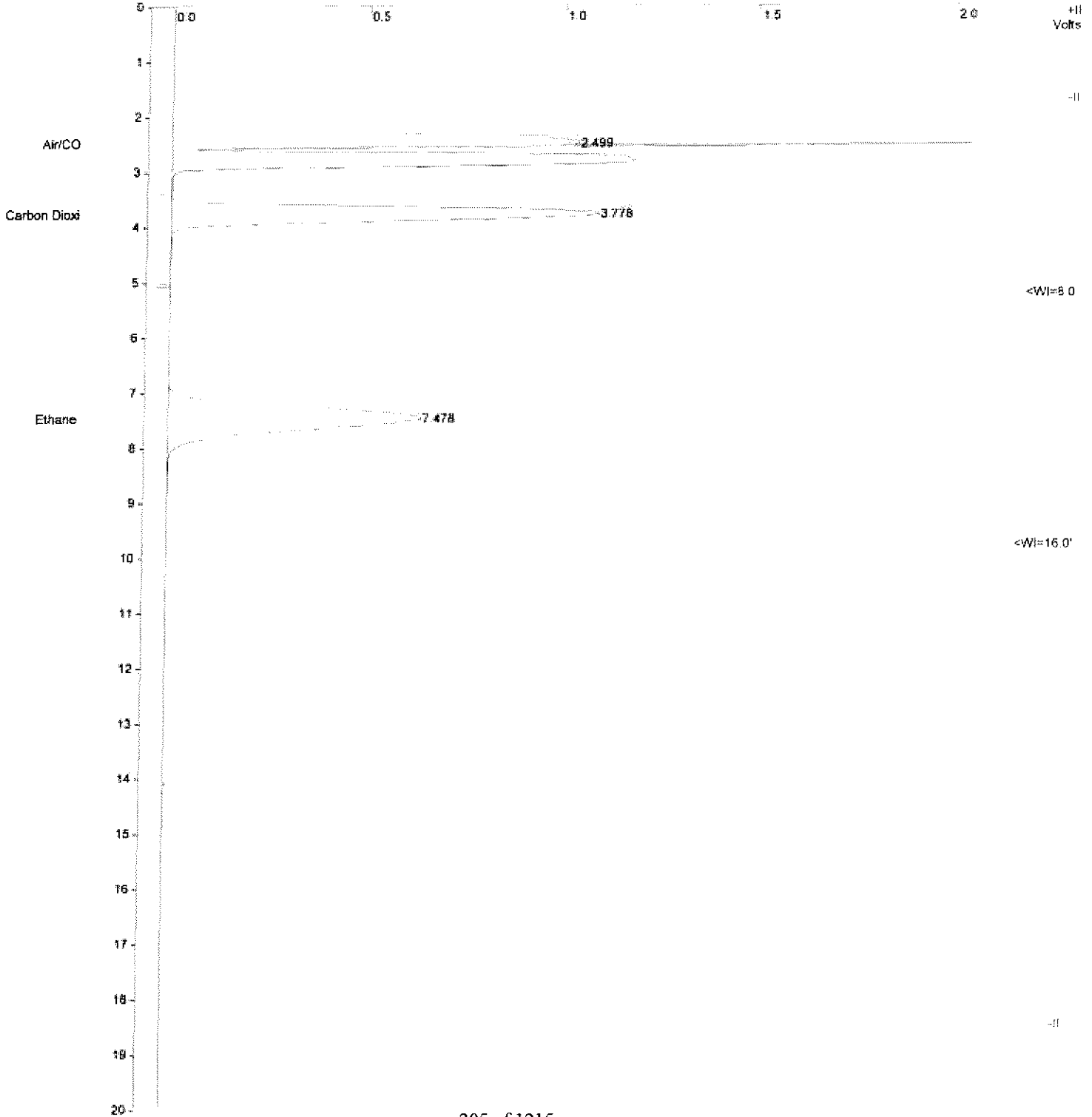
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 23-11-31 2000 ppm mix inj 2 - master sqam0 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master_SQAQM0 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mch
Sample ID : 2000 ppm mix

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-03-25 23:31

Operator : Douglas W. Detector Type: ESK-GC (1300 Volts)
Workstation: DESKTOP-EVL58 Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** NWS 8.0.1 for SCTCN Version 8.0.1 ** 02057-3731-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 9 Zero Offset = 24
Start Time = 0.000 min End Time = 20.000 min Min / Pick = 1.00



Title : c:\brukers\data\2021\max_21\2021-03-25_23-11-31_2000 ppm mix.inj 2 - master sqagnd 25.3 ml loop 05-05-20_tcdranges - copy.run
Method File : 2021-03-30_15-27-04_a_027_011_a.inj 1 - master sqagnd 25.3 ml loop 05-05-20_tcdranges - copy-middle.mth
Sample ID : 2000 ppm mix

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-04-06 13:19

Operator : Douglass W.
Workstation: DESKTOP-EVLSB
Detector Type: 4XX-CC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Channel : Middle = FID
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width 1/2 | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-----------|--------------|
| 1 | Methane | 2007.86 | 5.440 | 0.080 | 3239937 | VV | 16.3 | |
| 2 | Carbon Monox | 2027.86 | 6.152 | 0.287 | 3277201 | VB | 20.4 | |
| 3 | NMHEOC | 2027.51 | 16.578 | -0.601 | 40966528 | RR | 30.8 | |
| Totals: | | 5929.45 | | -0.234 | 47503666 | | | |

Total Unidentified Counts : 1900 counts

Detected Peaks: 11 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored Before this run): 29 microVolts

Manual injection

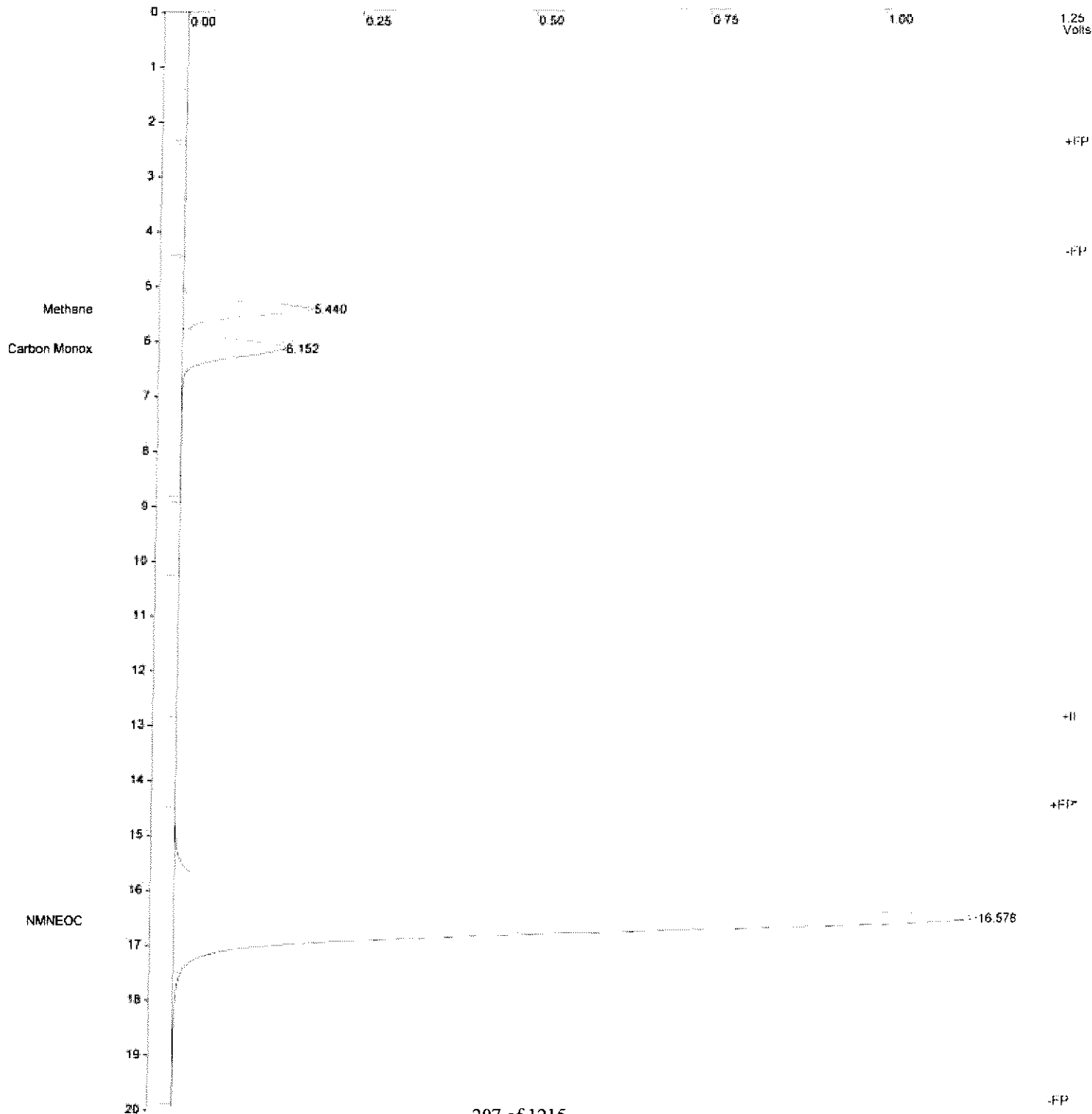
Title :
Run File : c:\brukerms\data\2021\mar 21\2021-03-25 23-11-31 2000 ppm mix inj 2 - master sqagnd 25.3 3 ml loop 05-05-20 tcdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - C11 a inj 1 - master sqagnd 25.3 3 ml loop 05-05-20 tcdrange5 - copy-middle.mth
Sample ID : 2000 ppm mix

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-04-06 13:19

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus FIOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.030 min

** MSWS 8.0.1 for SCTON Version 8.0.1 ** 02057-3701-261-4150 **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-03-26_00-04-25_n2_blank_al07_inj_2 - master.ssqmd 25.3 ml Loop 05-05-20_TCDrange5 - copy.run
Method File : C:\bruker\methods\master.ssqmd 25.3 ml Loop 05-05-20_TCDrange5 - copy.mth
Sample ID : N2 Blank Al07

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 00:24

Operator : Douglass W.
Workstation : DESKTOP-6VLSB
Instrument : Ietus NMOC
Channel : Front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.473 | -0.040 | 589 | VP | 0.0 | |
| 2 | Carbon Dioxide | 0.0372 | 3.691 | 0.251 | 342 | BV | 9.0 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | | 9.211 | | 931 | | | |

M - Missing peak

Total Unidentified Counts : 1487 counts

Detected Peaks: 15 Rejected Peaks: 9 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual injection

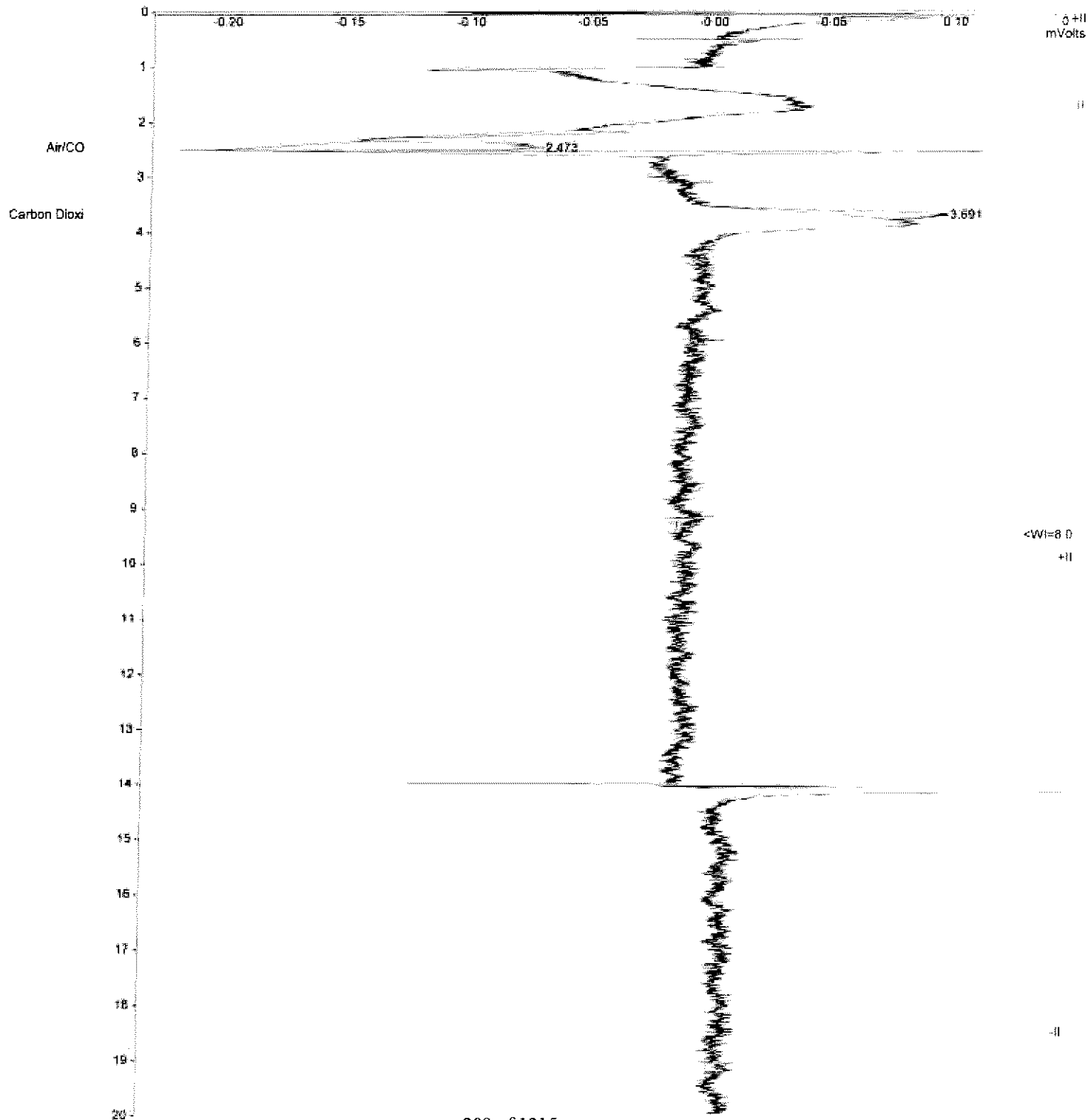
Title :
Run File : c:\brukerws\data\2021\mar 21\2021-03-26 00-04-25 n2 blank al67 inj 2 - master sqaqnc 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAQNC 25.3 3 ml loop 05-05-20_tcdrange5 - Copy.mch
Sample ID : N2 Blank AL67

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 00:24

Operator : Douglass W. Detector Type: 4XX-6C (1000 Volts)
Workstation: DESKTOP-EVLSB Bus Address : 44
Instrument : Lotus RMGC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min.

** N2WS 8.0.1 for SCIOW Version 8.0.1 ** 02057-3761-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerw\data\2021\mar_21\2021-03-26 00-04-25 n2 blank a107 inj 2 - master.ssqmd 25.3 ml loop 05-05-20...LCdrange00 - copy.run
Run File : C:\brukerw\data\2021\mar_21\2021-03-26 00-04-25 n2 blank a107 inj 2 - master.ssqmd 25.3 ml loop 05-05-20...LCdrange00 - copy.run
Method File : C:\brukerw\methods\Master_SQAQMD 25.3 ml loop 05-05-20...LCdrange00 - Copy.mth
Sample ID : N2 Blank A107

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 00:24

Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Dotus NMOG
Channel : Middle = FID
Detector Type: 4Xx-CC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes | |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|---|
| 1 | Methane | 0.80 | 5.423 | 0.063 | 809 | BY | 15.5 | | |
| 3 | Carbon Monox | 0.87 | 6.102 | 0.317 | 1504 | VB | 21.0 | | |
| Totals: | | | | | | | 1.37 | 2313 | M |

Status Codes:
M - Missing peak

Total Unidentified Counts : 1876 counts

Detected Peaks: 12 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 6 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 13 microVolts

Manual injection

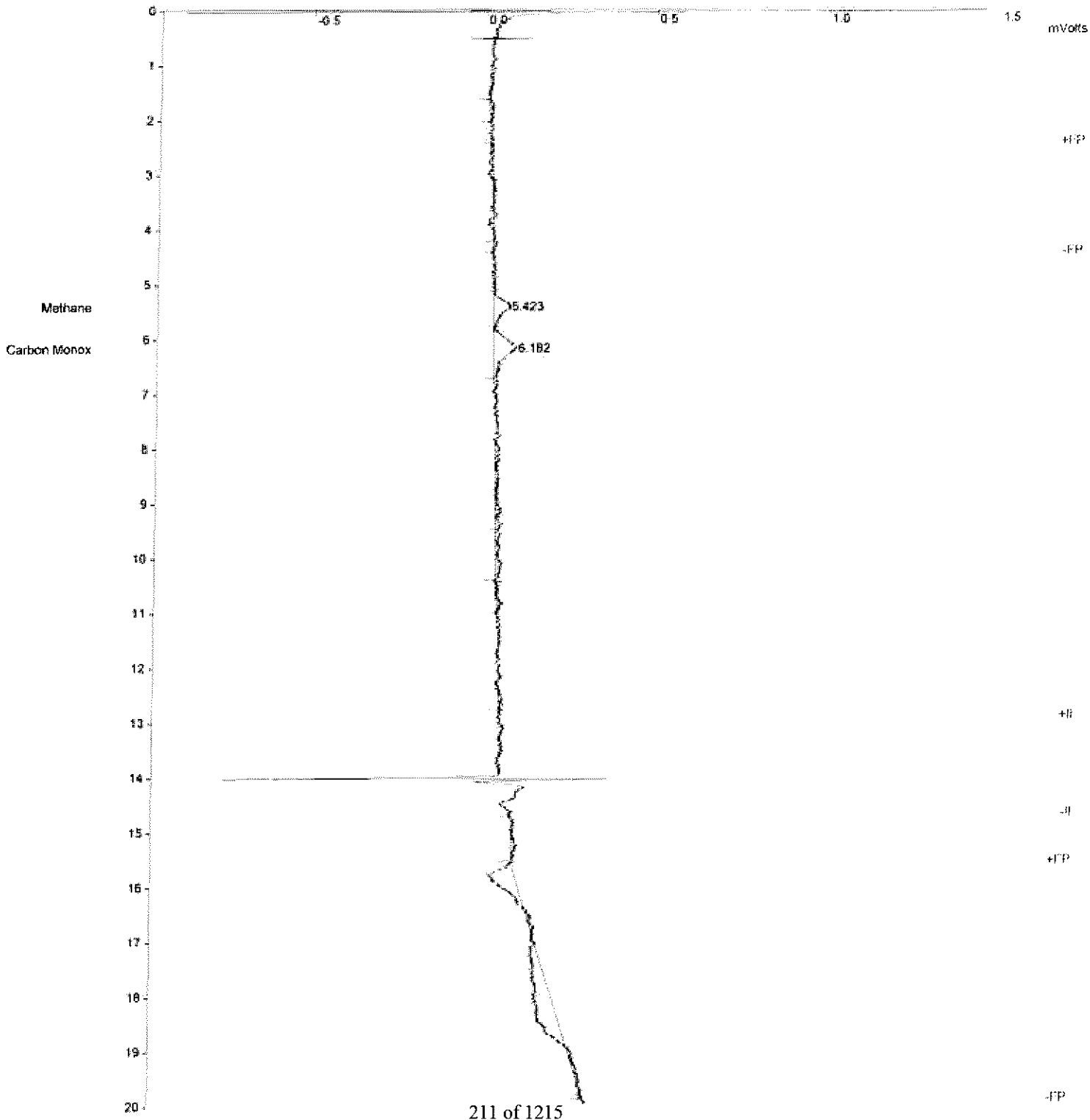
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-26 00-04-25 n2 blank a107 inj 7 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\Methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 Blank A107

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 00:24

Operator : Douglass W. Detector: Type: 4EX-GC (1000 Volts)
Workstation: DESKTOP-6VZ55 Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIEN Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\sw\data\2021\maf_21\2021-03-30 09-18-53 n2 blank 0106 inj.2 - master.sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\sw\methods\master.sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.mth
Sample ID : N2 blank A106

Injection Date: 2021-03-30 09:18 Calculation Date: 2021-03-30 09:38

Operator : Douglas W.
Detector Type: 4XX-GC (1000 volts)
Bus Address : 4
Instrument : LUNA NMOG
Sample Rate : 5.00 Hz
Channel : FID
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Et/CO | 0.000 | 2.551 | 0.038 | 986 | BB | 0.0 | |
| 2 | Carbon Dioxi | 1.1367 | 3.782 | 0.342 | 10451 | BB | 17.7 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | | | | | | 0.380 | 11437 |

Status Codes:
M - Missing peak

Total Unidentified Counts : 146 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 3 microVolts - monitored before this run

Manual injection

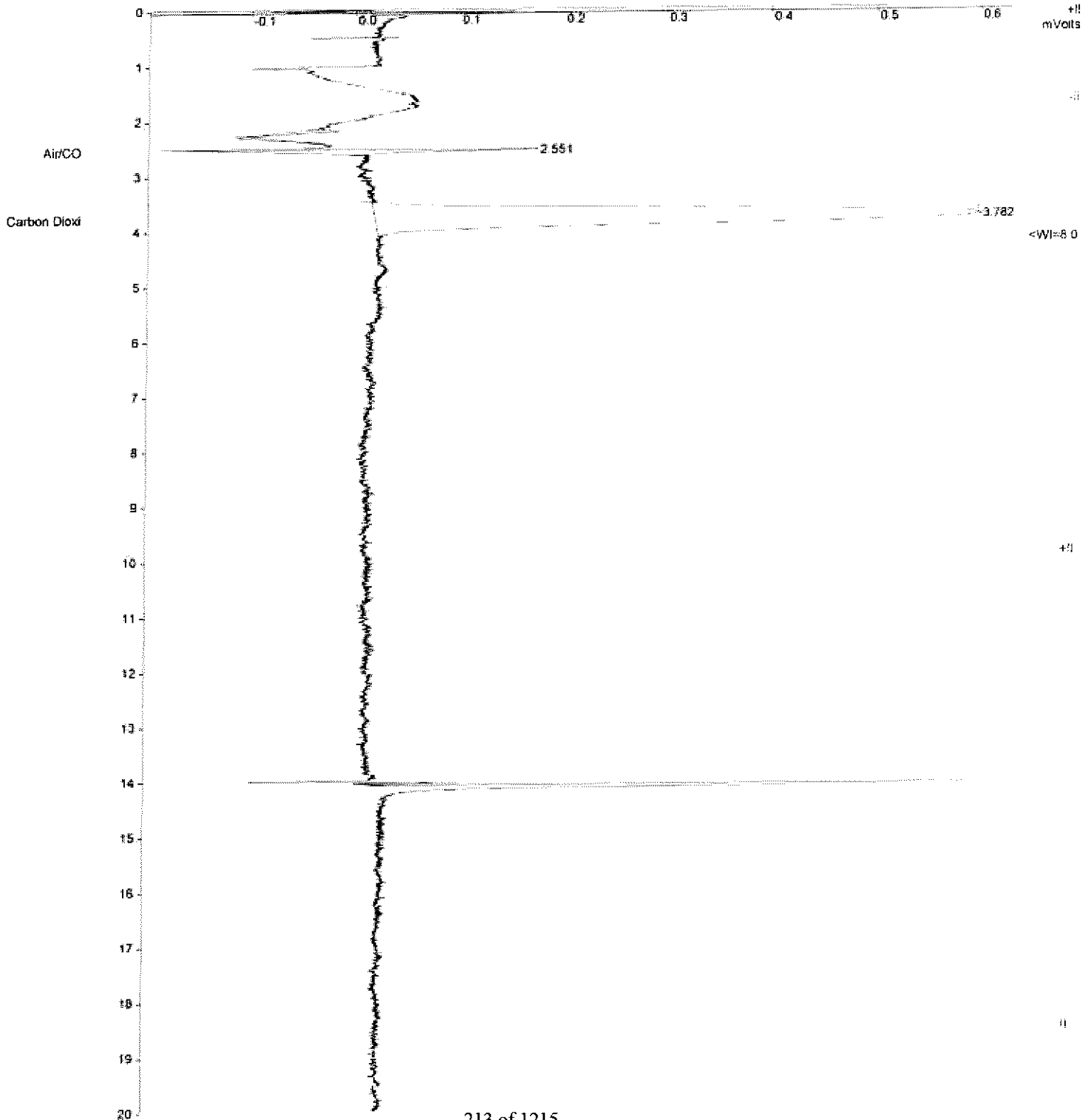
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 09-18-53 n2 blank ai36 inj 2 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAGND 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 blank AI36

Injection Date: 2021-03-30 09:18 Calculation Date: 2021-03-30 09:38

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VZ5B Bus Address : 44
Instrument : Lorus WROC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIEN Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 05
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\Mar_21\2021-03-30_09-18-53 n2 blank al06 inj 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdranges * copy.run
Method File : C:\bruker\MS\Methods\Waste\SQAGMD 25.3 3 ml Loop 05-05-20_tcdranges - copy.mch
Sample ID : N2 blank Al06

Injection Date: 2021-03-30 09:18 Calculation Date: 2021-03-30 09:38

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V7J5E Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSNS 8.0.1 for SCION Version 9.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|--------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 0.07 | 5.353 | -0.007 | 111 | BB | 9.2 | |
| 2 | Carbon Monox | 0.48 | 6.179 | 0.314 | 828 | BB | 23.6 | |
| 3 | NNNEOC | 0.07 | 18.968 | 1.789 | 1496 | BB | 44.1 | |
| Totals: | | | | | 2.096 | | 2435 | |

Total Unidentified Counts : 2125 counts

Detected Peaks: 12 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 38 microVolts

Manual Injection

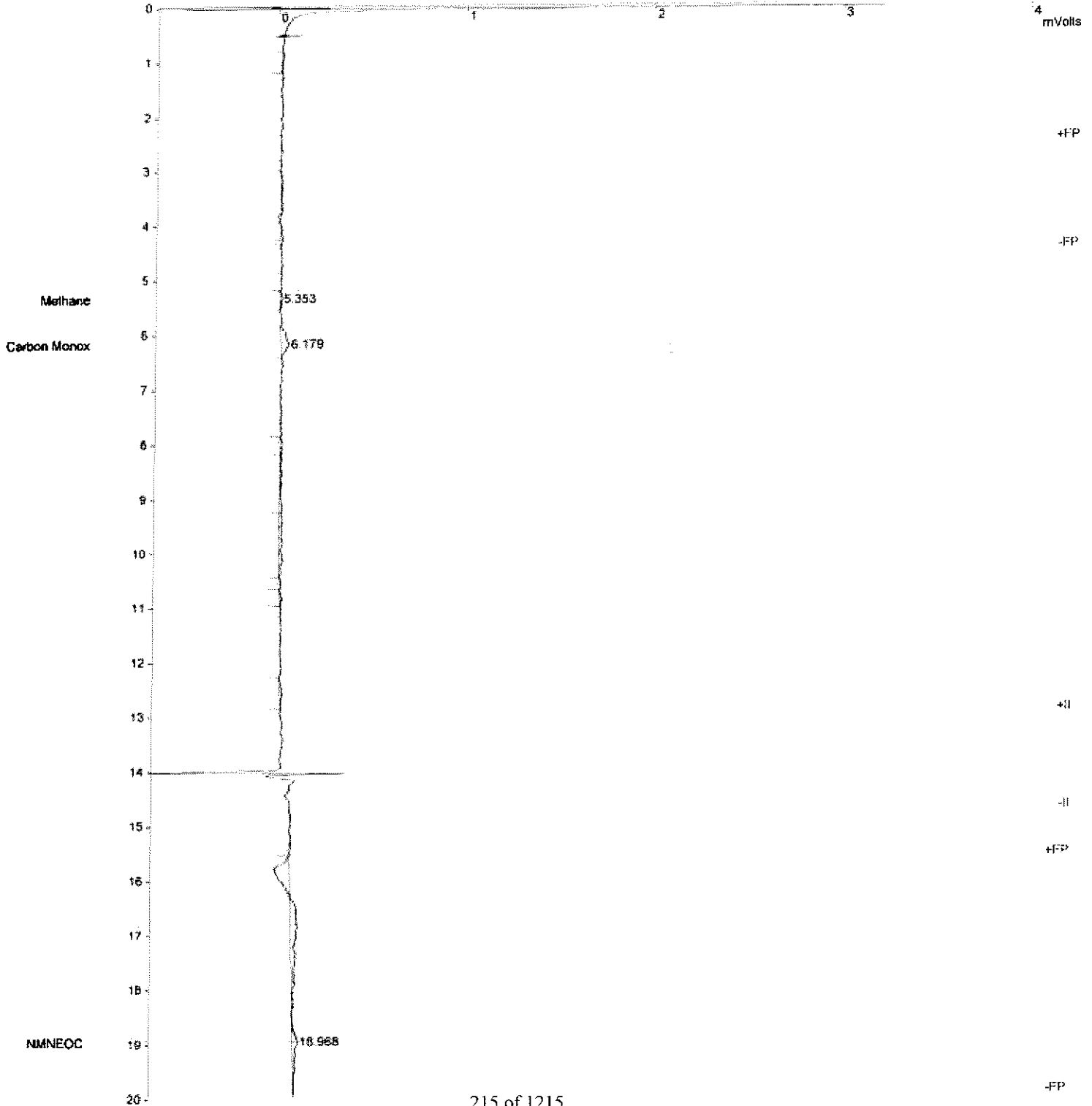
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30 09-18-53 n2 blank a106 inj 2 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\sw\methods\Master SQAMND 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mtk
Sample ID : N2 blank A106

Injection Date: 2021-03-30 09:18 Calculation Date: 2021-03-30 09:38

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 09
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2021-03-30 10:37 Calculation Date: 2021-03-30 10:57

Operator : Douglass W. Detector Type: 4xx-CC (1000 Volts)
 Workstation: DESKTOP-6V15B Bus Address : 44
 Instrument : Lotus NMOG Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sup. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.489 | -0.014 | 23763 | BV | 20.8 | |
| 2 | Carbon Dioxide | 4.9256 | 3.773 | 0.333 | 45285 | BB | 16.7 | |
| 3 | Ethane | 4.5727 | 7.497 | 0.121 | 43166 | BB | 26.3 | |
| Totals: | | 9.4993 | 0.440 | | 112214 | | | |

Total Unidentified Counts : 56474 counts

Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual Injection

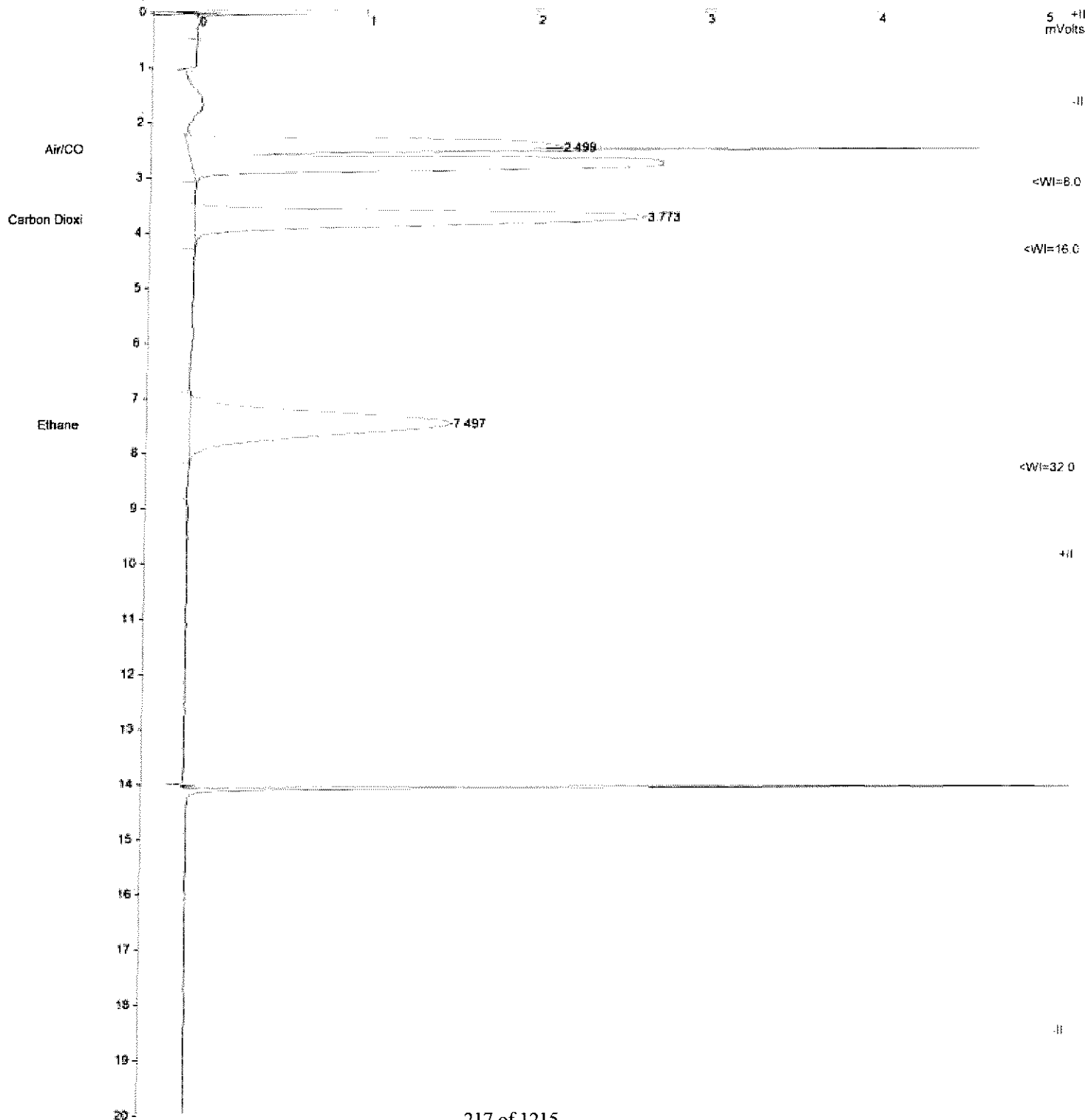
Title :
 Run File : c:\brukerws\data\2021\mar_21\2021-03-30 10-37-45 5 ppm mix in; 3 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\BrukerWS\methods\Waster SQAGMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mh
 Sample ID : 5 ppm mix

Injection Date: 2021-03-30 10:37 Calculation Date: 2021-03-30 10:57

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DBSKTOP-6V15B Bus Address : 44
 Instrument : Lotus NNOG Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSW8 8.0.1 for SCION Version 8.0.1 ** 02957-3701-AB1-615C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\ms\data\2021\max_2\2021-03-30_10-37-45_5 ppm mix inj_3 -- master sqagms 25.3 3 ml loop 05-05-20_tcdranges - copy.run
Method File : 2021-03-30_10-37-45_5 ppm mix inj_3 -- master sqagms 25.3 3 ml loop 05-05-20_tcdranges - copy-middle.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-30 10:37 Calculation Date: 2021-04-05 11:01
Operator : Douglass W.
Workstation: DESKTOP-EVLSB
Instrument : LUNA NMO-C
Channel : Middle - FID
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **
Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Seq. Code | Width (sec) | Status Code |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|-------------|
| 1 | Methane | 2.15 | 5.433 | 0.073 | 8373 | UV | 14.3 | |
| 2 | Carbon Monox | 7.47 | 6.150 | 0.285 | 9457 | VB | 20.9 | |
| 3 | NREOC | 7.69 | 16.035 | -1.144 | 155362 | M3 | 26.1 | |
| Totals: | | 18.35 | | -0.786 | 173192 | | | |

Total Unidentified Counts : 1436 counts
Detected Peaks: 9 Rejected Peaks: 2 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 32 microVolts
Manual injection

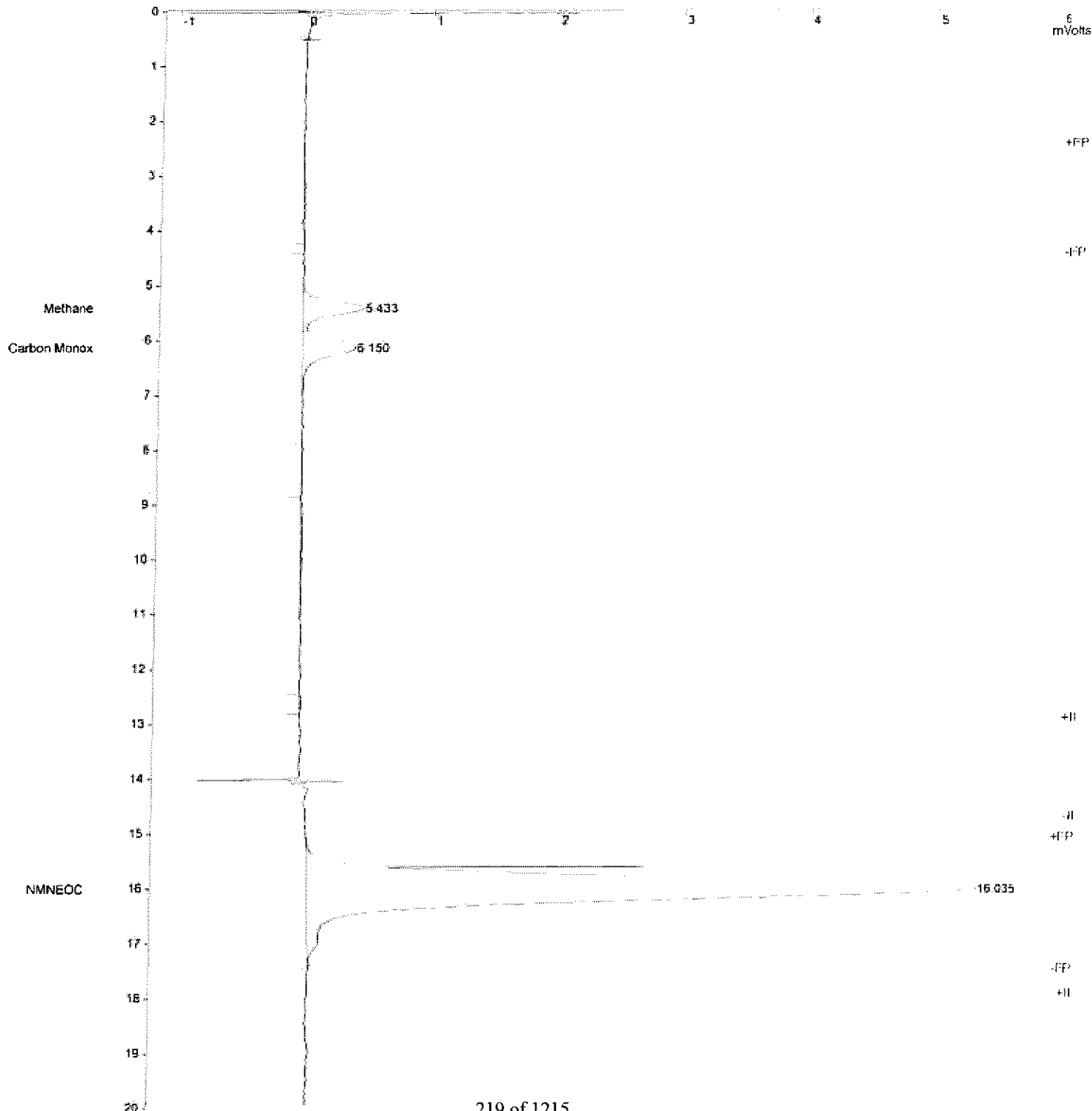
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 10-37-45 5 ppm mix inj 3 - master sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 10-37-45 5 ppm mix inj 3 - master sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-30 10:37 Calculation Date: 2021-04-05 11:01

Operator : Douglass W. Detector Type: 4EX-GC (1000 Volts)
Workstation: DESKTOP-6VLS6 Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** NWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-419C **

Chart Speed = 0.39 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerws\data\2021\mar_21\2021-03-30 11-30-21 system blank inj 2 - master sqagmd 25.3 3 ml loop 05-05-20_fcdranges - copy.mth
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 11-30-21 system blank inj 2 - master sqagmd 25.3 3 ml loop 05-05-20_fcdranges - copy.mth
Method File : c:\brukerws\methods\master_sqagmd 25.3 3 ml loop 05-05-20_fcdranges - Copy.mth
Sample ID : system blank

Injection Date: 2021-03-30 11:30 Calculation Date: 2021-03-30 11:50
Operator : Douglas M
Workstation: DESKTOP-6M15B
Instrument : Lotus NMOC
Channel : Front - FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02087-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.748 | 0.035 | 3458 | BB | 0.0 | |
| 2 | Carbon Dioxi | 2.7529 | 7.378 | 0.328 | 25310 | BB | 17.0 | |
| 3 | Ethane | | | | | | | |
| Totals: | | 2.7529 | | 0.363 | 28769 | | | |

Status Codes:
M - Missing Peak

Total Unidentified Counts : 1350 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 14 microVolts - monitored before this run

Manual injection

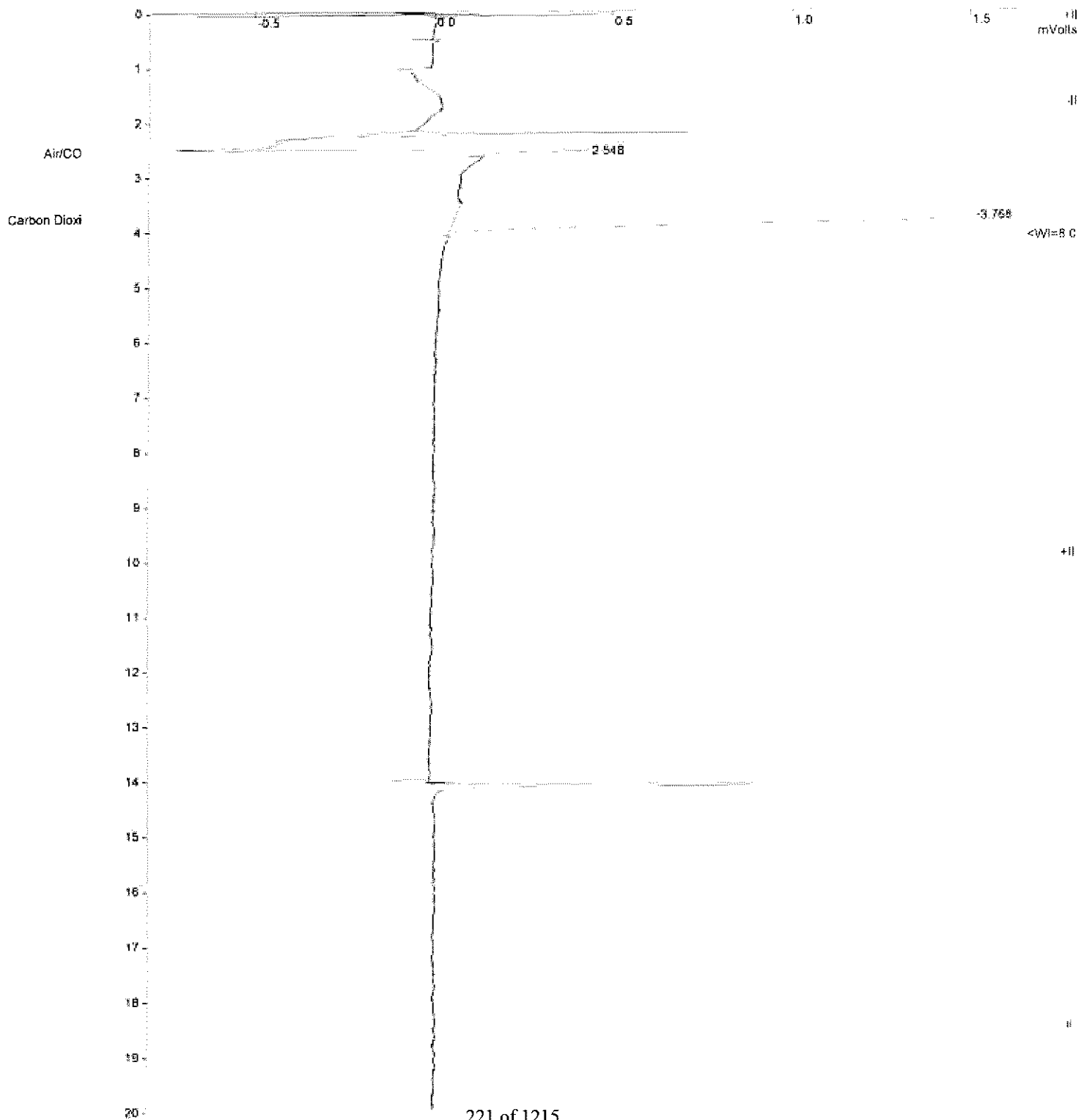
Title :
Run File : c:\brukerws\data\2021\mar 21\2021-03-30 11-30-21 system blank inj 2 - master sqagmd 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\brukerws\methods\Master SQAGMD 25.3 ml Loop 05-05-20_TCDrange5 - Copy.mch
Sample ID : system blank

Injection Date: 2021-03-30 11:30 Calculation Date: 2021-03-30 11:50

Operator : Douglas W. Detector Type: 4EX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-4150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukers\data\2021\mar_21\2021-03-30 11-30-21 system blank inj 2 : master saqamd 25.3 ml loop 05-05-20_tcdrange5 - copy.ruv
Method File : C:\brukers\methods\MasterE SAQAMD 25.3 ml Loop 05-05-20_tcdrange5 : Copy.mth
Sample ID : system blank

Injection Date: 2021-03-30 11:30 Calculation Date: 2021-03-30 11:50

Operator : Douglass W.
Workstation: DESKTOP-6Y1E8
Instrument : Lotus NMOC
Channel : Middle = FID

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 0.09 | 5.369 | 0.009 | 144 | BV | 9.1 | |
| 2 | Carbon Monox | 2.65 | 6.158 | 0.293 | 4937 | VB | 23.3 | M |
| 3 | NMSEOC | 17.179 | | | | | | |
| Totals: | | 2.94 | | 0.302 | 5081 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 18577 counts

Detected Peaks: 11 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSH: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise monitored before this run: 21 microVolts

Manual injection

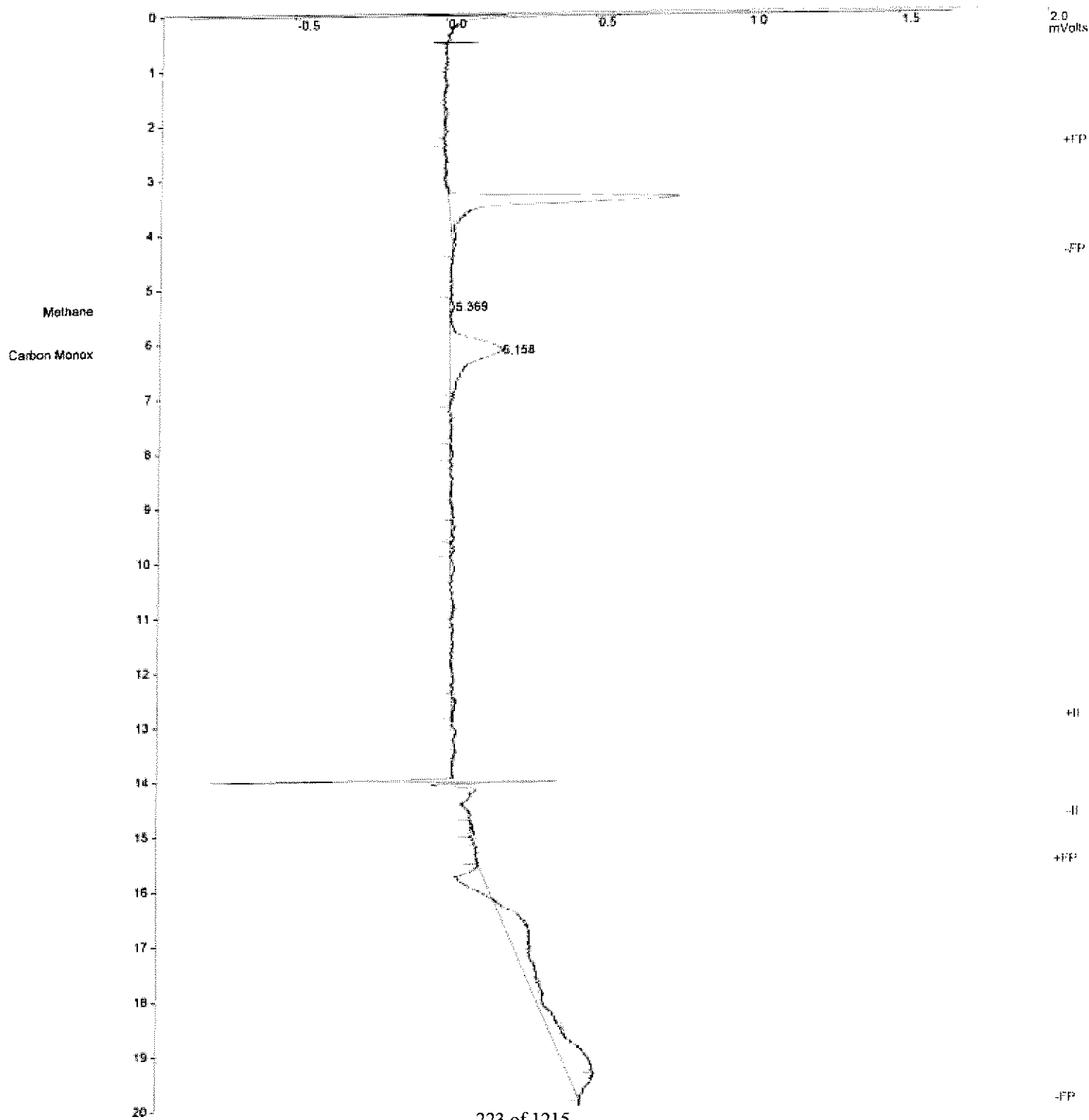
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 11:50-21 system blank inj 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\brukerWS\methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : system blank

Injection Date: 2021-03-30 11:30 Calculation Date: 2021-03-30 11:50

Operator : Douglass W. Detector Type: FID-GC (1000 Volts)
Workstation: DESKTOP-6VL56 Bus Address : 44
Instrument : Lotus KMOD Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02051-3701-ABL-415C **

Chart Speed = 0.59 cm/min Attenuation = 1 Zero Offset = 08
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerw\data\2021\mar_21\2021-03-30_21-08-22_2000 ppm mix inj 2 - master.sqaqmd 25.3 3 m: loop 05-05-20_tcdranges5 .copy.run
Method File : C:\brukerw\methods\master.sqaqmd 25.3 3 ml loop 05-05-20_tcdranges5 - Copy.mth
Sample ID : 2000 ppm mix

Injection Date: 2021-03-30 21:08 Calculation Date: 2021-03-30 21:28
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15B Bus Address : 44
Instrument: Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.000 | 2.534 | 0.021 | 5104555 | VV | 2.9 | |
| 2 | Carbon Dioxide | 1940.2871 | 3.770 | 0.330 | 17814764 | V5 | 16.2 | |
| 3 | Ethane | 2091.2026 | 7.474 | 0.098 | 18217609 | B8 | 26.3 | |
| Totals: | | 4031.4897 | 0.449 | | 41136927 | | | |

Total Unidentified Counts : 29921568 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 13 microVolts - monitored before this run

Manual injection

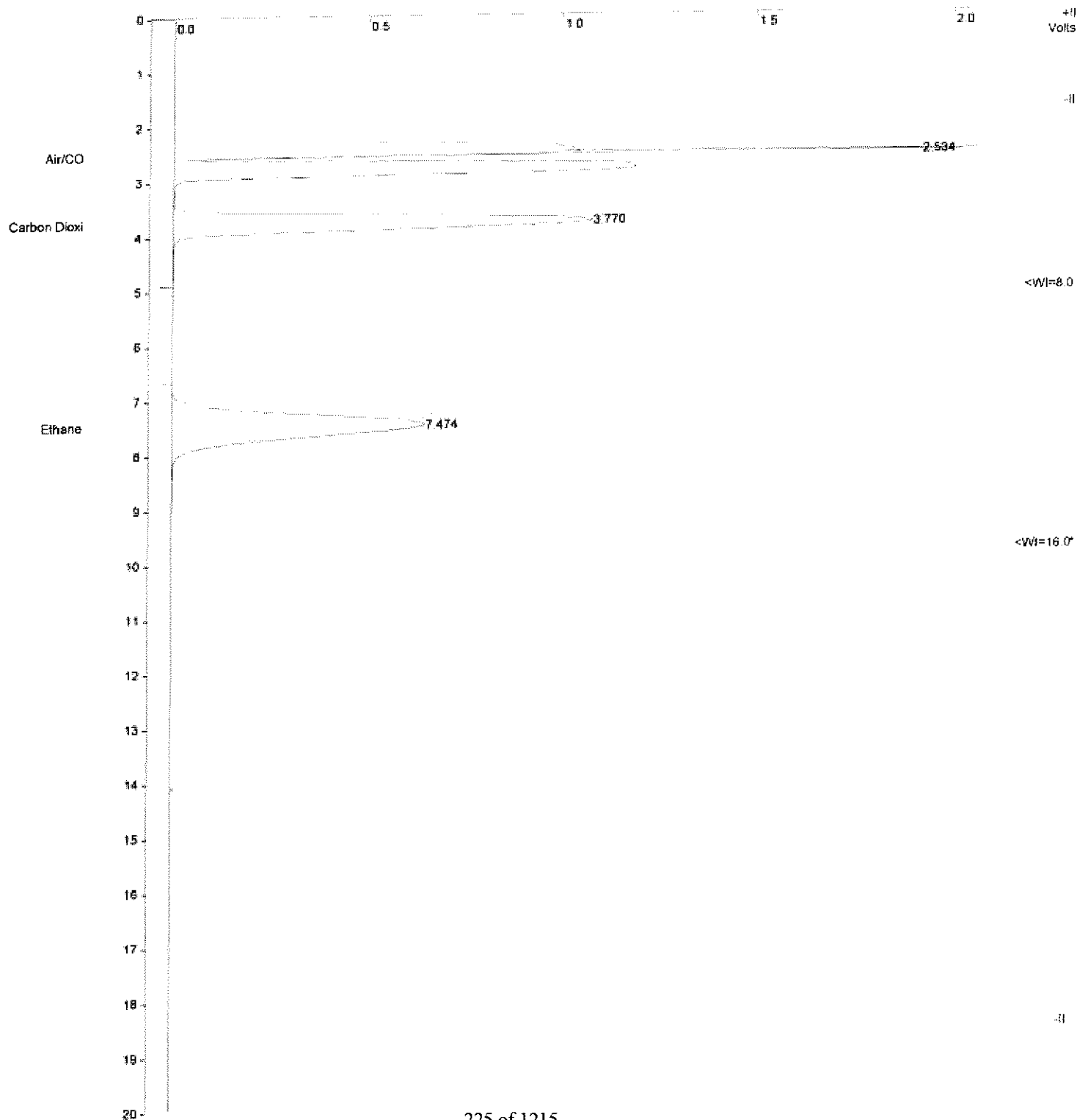
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 21-08-22 2000 ppm mix In: 2 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAGND 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : 2000 ppm mix

Injection Date: 2021-03-30 21:05 Calculation Date: 2021-03-30 21:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL55 Bus Address : 44
Instrument : LoLus NMGC Sample Rate : 5.00 Hz
Channel : Front = FED Run Time : 20.000 min

** MSWS 8.0.1 for SCIOW Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
Start Time = 9.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerw\data\2021\mar_21\2021-03-30_21-08-22_2000_ppm_mix_inj_2 - master sqcmd 25.3 ml loop 05-05-20_tcdrange5 - copy.v.m
Run File : 2021-03-30_10-37-45_5_ppm_mix_inj_3 - master sqcmd 25.3 ml loop 05-05-20_tcdrange5 - copy-middle.rnh
Method File : 2000 ppm mix
Sample ID : 2000 ppm mix

Injection Date: 2021-03-30 21:06 Calculation Date: 2021-04-05 11:02

Operator : Douglas W.
Location : DESKTOP-EVLS
Instrument : Middle - FID
Channel : Middle - FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 For SCION Version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Code |
|----------|------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|-------------|
| 1 | Methane | 2031.72 | 5.429 | 0.069 | 3278277 | PV | 16.3 | |
| 2 | Chloroform | 2110.41 | 6.139 | 0.274 | 3321202 | VB | 20.4 | |
| 3 | NMANSOC | 2150.03 | 16.605 | -0.574 | 41239632 | BB | 31.6 | |
| Totals: | | | -0.231 | | 47839911 | | | |

Total Unidentified Counts : 968 counts

Detected Peaks: 9 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 6 microVolts

Manual injection

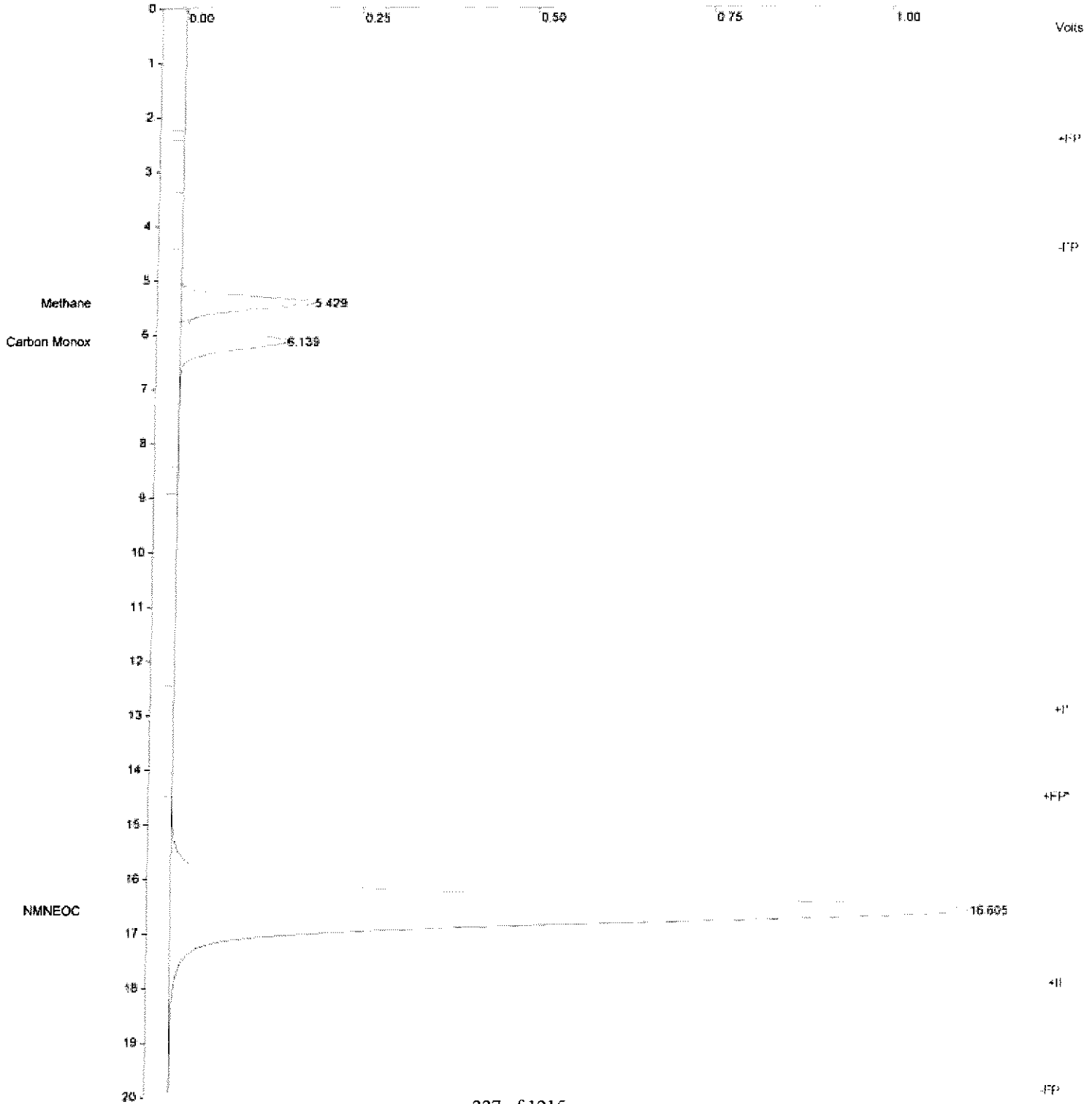
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-30 21-08-22 2000 ppm mix inj 2 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 10-37-45 5 ppm mix inj 3 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : 2000 ppm mix

Injection Date: 2021-03-30 21:08 Calculation Date: 2021-04-05 11:02

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus N900 Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 20.000 min

** MSWS 8.0.1 for SCS09 Version 8.0.1 ** 02037-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 28
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\sw\data\2021\mat_21\2021-03-30 22-01-12 n2 blank 20048 inj 2 - master saagmd 25.3 3 ml loop 05-05-20...tcdranges - copy_run
Method File : C:\bruker\sw\methods\Master_SQAQMD 25.3 3 ml Loop 05-05-20...TCDranges - Copy.mth
Sample ID : N2 Blank 20048

Injection Date: 2021-03-30 22:01 Calculation Date: 2021-03-30 22:21
Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOC Samp Rate : 5.00 Hz
Channel : FID Front = FID Run Time : 20.000 min
** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.550 | 0.037 | 911 | PB | 0.0 | |
| 2 | Carbon Dioxi | 0.1164 | 3.599 | 0.259 | 1070 | BV | 10.7 | |
| 3 | Ethane | 0.1164 | 7.376 | | | | | M |
| Totals: | | | | 0.296 | 1981 | | | |

Status Codes:
M - Missing Peak

Total Unidentified Counts : 1768 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 3

Multiplet: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 13 microVolts - monitored before this run

Manual injection

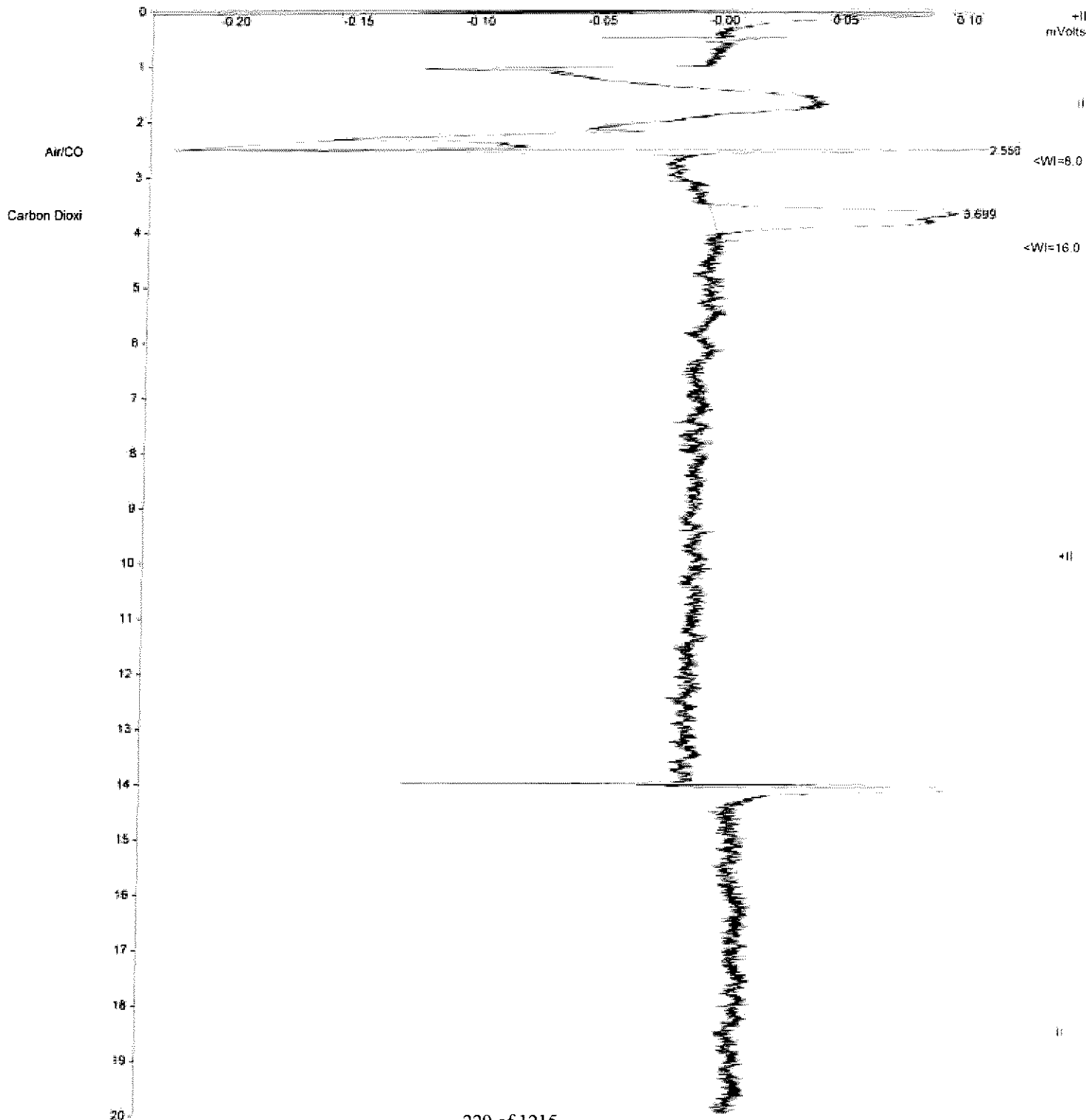
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-30 22-01-12 n2 blank 20048 inj 2 - master soqamd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\MS\methods\Master SOQAMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mt
Sample ID : N2 Blank 20048

Injection Date: 2021-03-30 22:01 Calculation Date: 2021-03-30 22:21

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6W15B Bus Address : 44
Instrument : Lotus 3MGC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** NWS 8.0.1 for SCIGN Version 8.0.1 ** C2057-3701-ARI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Bruker\msd\data\2021\mar_21\2021-03-30 22-01-12 s2 blank 20048
Run File : C:\Bruker\msd\data\2021\mar_21\2021-03-30 22-01-12 s2 blank 20048 inj 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\msd\method\Master SQAGMD 25.3 3 ml loop 05-05-20_tcdrange5 - copy.mth
Sample ID : N2 Blank 20048

Injection Date: 2021-03-30 22:01 Calculation Date: 2021-03-30 22:21
Operator : Douglass W.
Workstation: DESKTOP-6V15B
Instrument : Lotus NMOG
Channel : Middle = FID
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 9.0.1 ** 02057-3701-ABI-415C **
Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement : Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Ret. Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|------------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 0.76 | 5.425 | 0.065 | 1219 | BV | 14.5 | |
| 2 | Carbon Monox | 1.28 | 6.160 | 0.285 | 2220 | VB | 20.1 | |
| 3 | NANPEOC | | 17.179 | | | | | M |
| Totals: | | 2.04 | | 0.360 | 3439 | | | |

Status Codes:
M = Missing peak

Total Unidentified Counts : 1187 counts

Detected Peaks: 11 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 17 microVolts

Manual Injection

230 of 1215

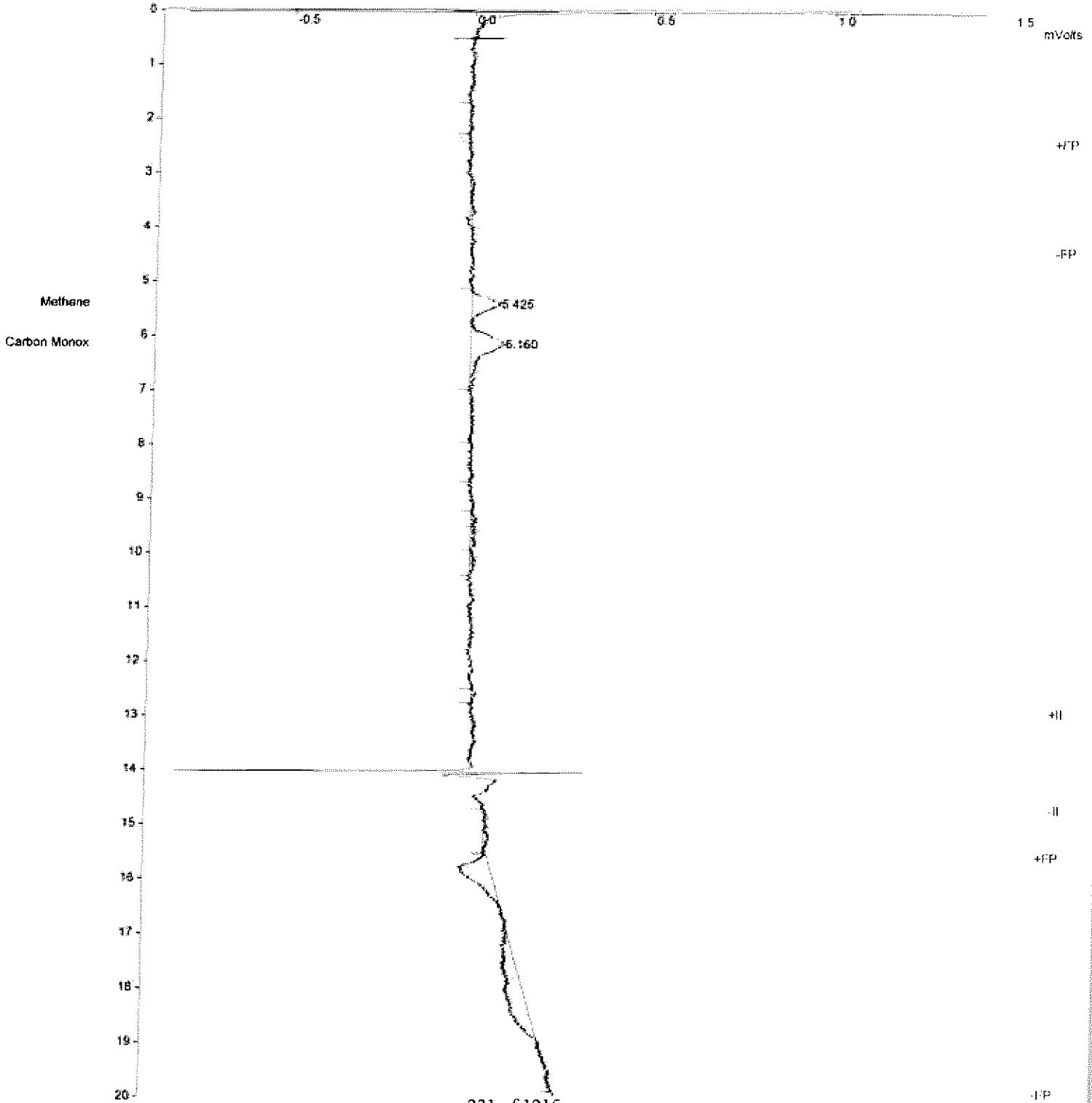
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-30 22-01-j2 n2 blank 20048 inj 2 - master sqcmd 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQCMD 25.3 ml loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 Blank 20048

Injection Date: 2021-03-30 22:01 Calculation Date: 2021-03-30 22:21

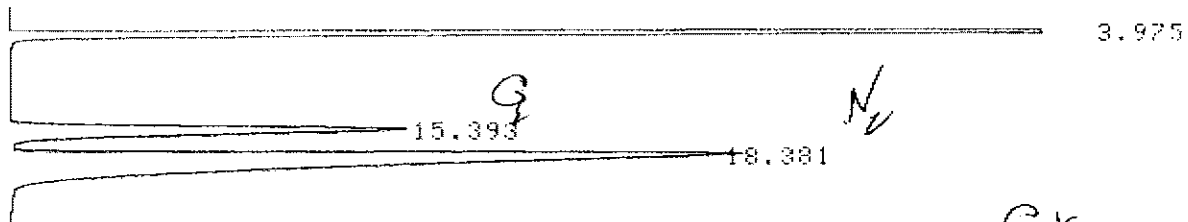
Operator : Douglass W. Detector Type: 4KX-GC (1000 Volts)
Workstation: DESKTOP-6V15B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIEN Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



3/12

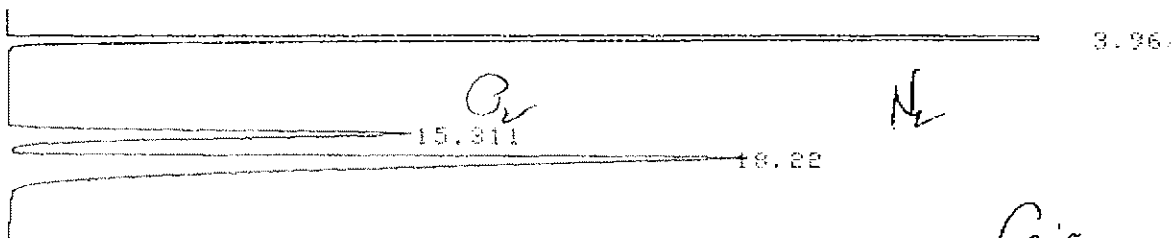


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 726

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.975 | 7646222 | | | 35.7369 | |
| 2 | 15.393 | 3416768 | | | 15.9693 | |
| 3 | 18.381 | 10332882 | V | | 48.2938 | |
| TOTAL | | 21395870 | | | 100 | |

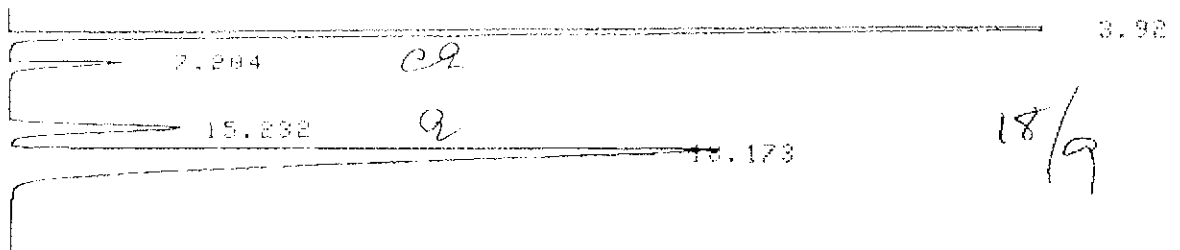


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 727

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.967 | 7709693 | | | 36.0707 | |
| 2 | 15.311 | 3410730 | | | 15.9575 | |
| 3 | 18.22 | 10253436 | V | | 47.9718 | |
| TOTAL | | 21373858 | | | 100 | |

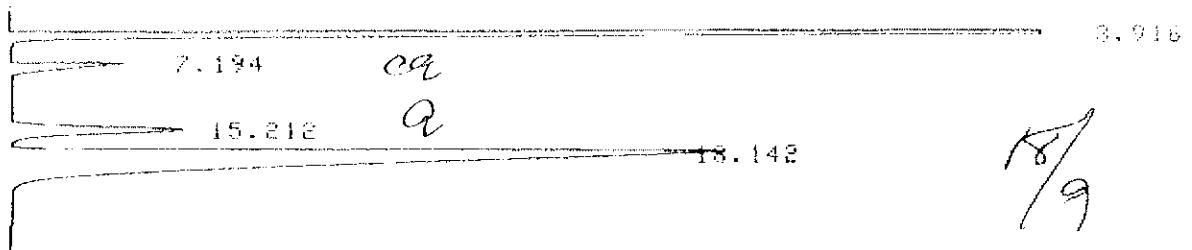


CHROMATOGRAM 1 MEMORIZED

C-25A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 728

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.92 | 6322305 | | | 35.0938 | |
| 2 | 7.204 | 687824 | | | 3.818 | |
| 3 | 15.232 | 1429570 | | | 7.9352 | |
| 4 | 18.173 | 9575746 | V | | 53.153 | |
| TOTAL | | 18015444 | | | 100 | |

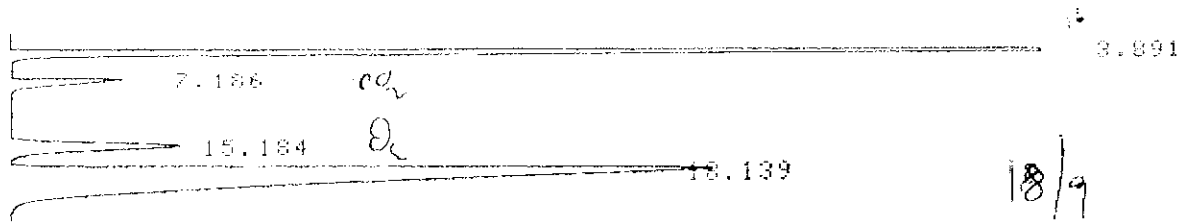


CHROMATOGRAM 1 MEMORIZED

C-25A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 729

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.916 | 6356957 | | | 35.0008 | |
| 2 | 7.194 | 692163 | | | 3.811 | |
| 3 | 15.212 | 1446294 | | | 7.9632 | |
| 4 | 18.142 | 9666884 | V | | 53.225 | |
| TOTAL | | 18162296 | | | 100 | |



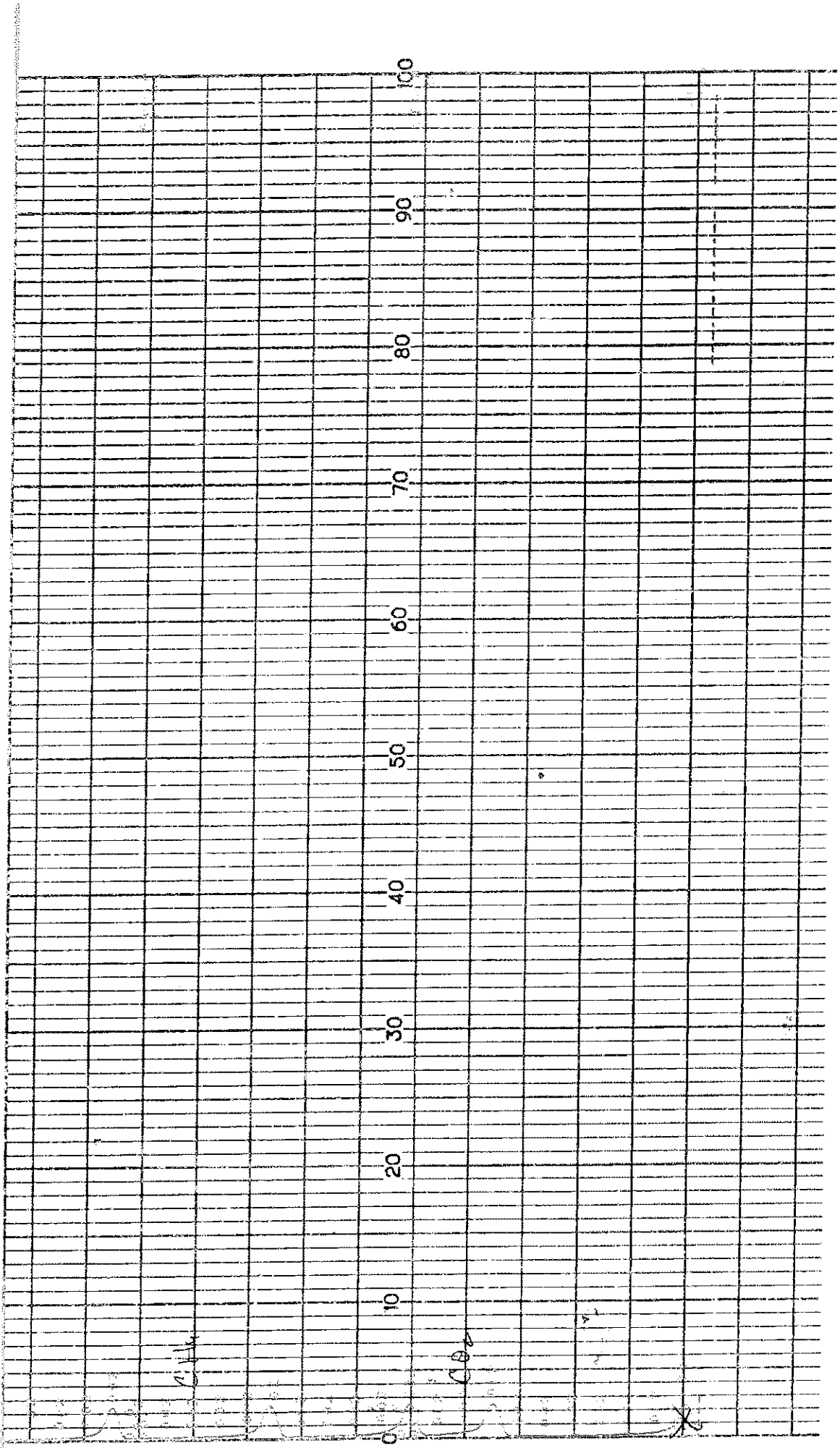
CHROMATOGRAM 1 MEMORIZED

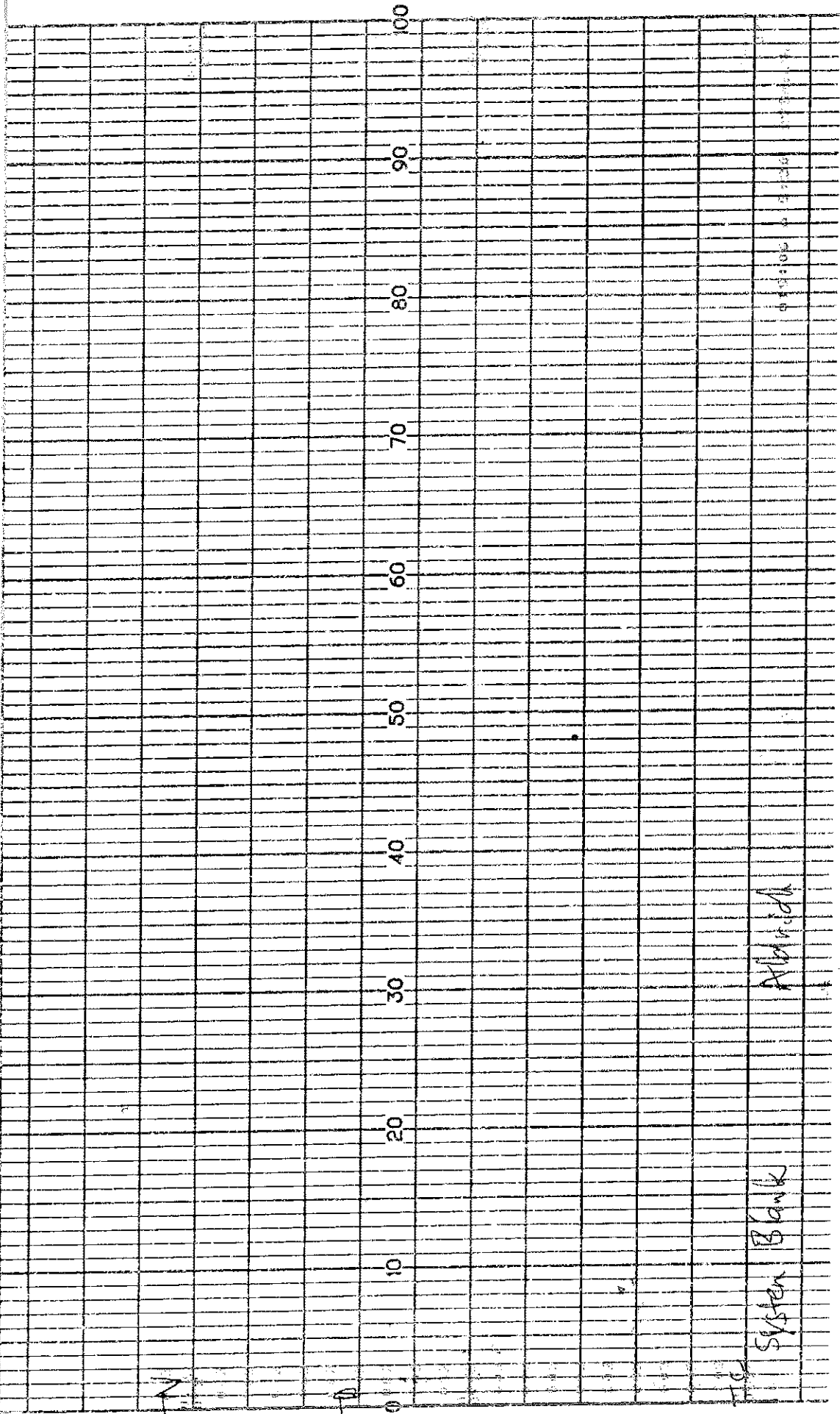
C-85A CHROMATOPAC

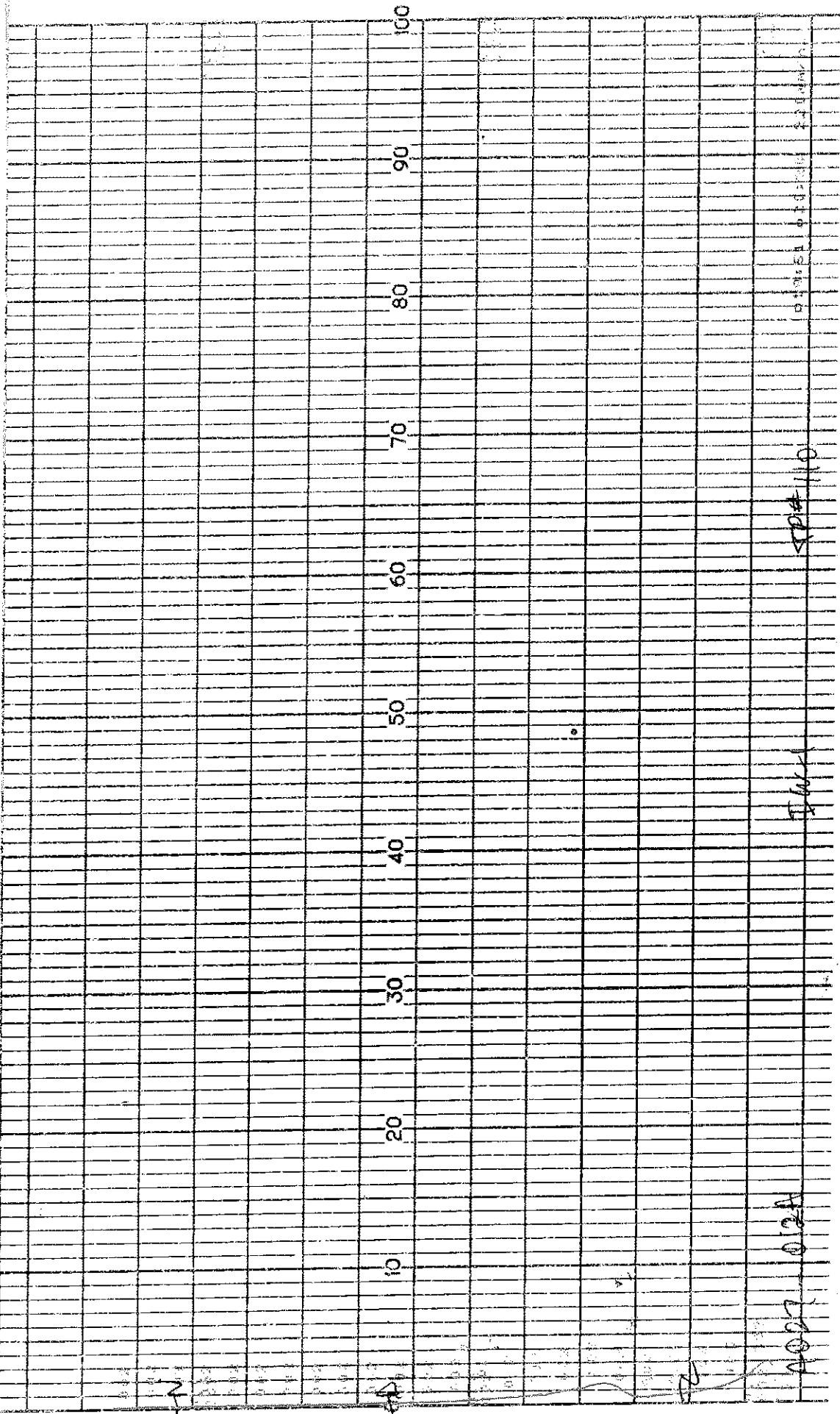
CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 760

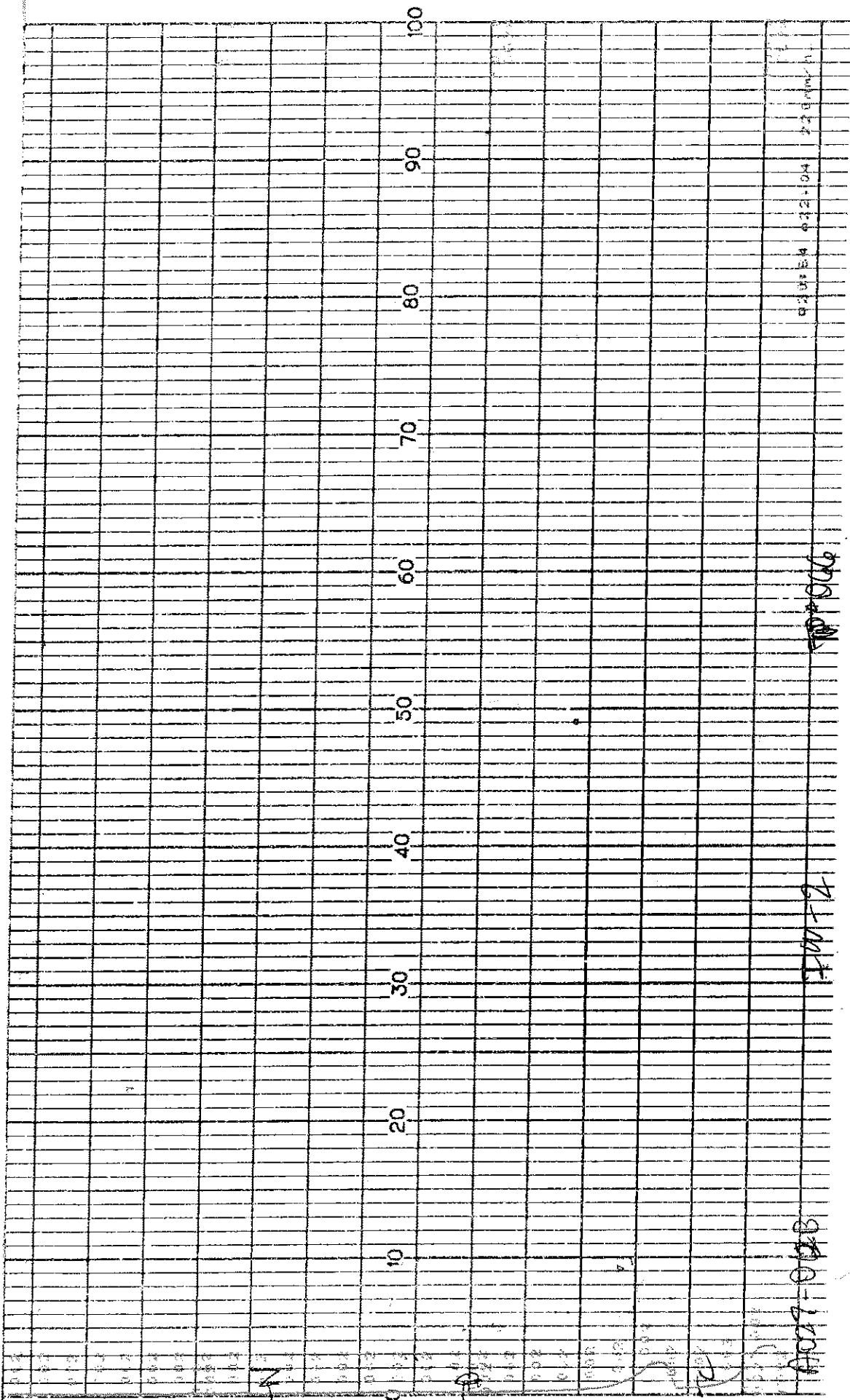
| PKNO | TIME | AREA | HK | IDHO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.891 | 6318599 | | | 35.3866 | |
| 2 | 7.186 | 684960 | | | 3.836 | |
| 3 | 15.184 | 1410638 | | | 7.9001 | |
| 4 | 18.139 | 9441725 | V | | 52.8773 | |
| TOTAL | | 17855920 | | | 100 | |

TRAP BURNING STRIPCHART
TEST SAMPLES







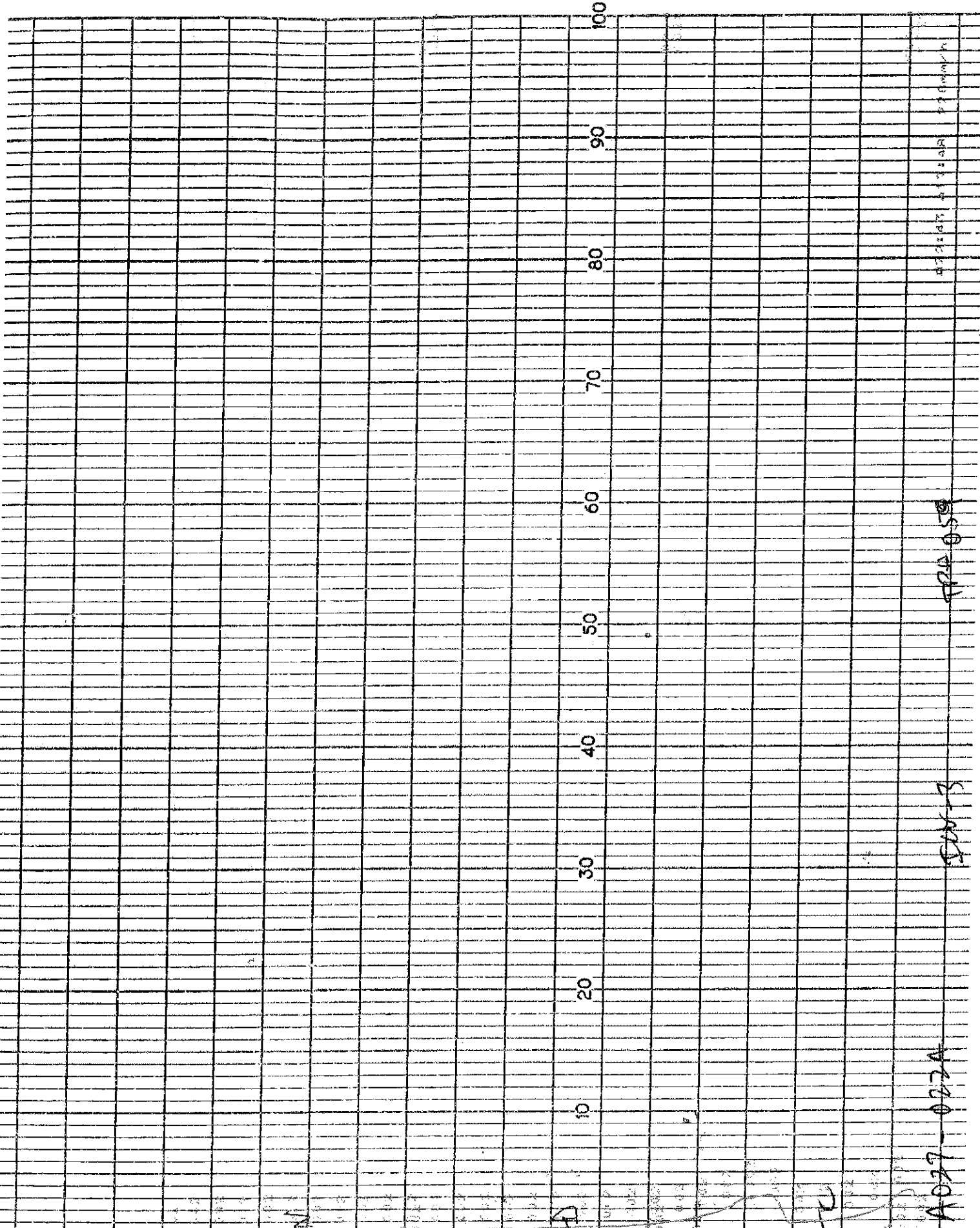


0.100 5.4 0.12 1.04 2.2 0.11 1.1

0.000

1-101

0.000

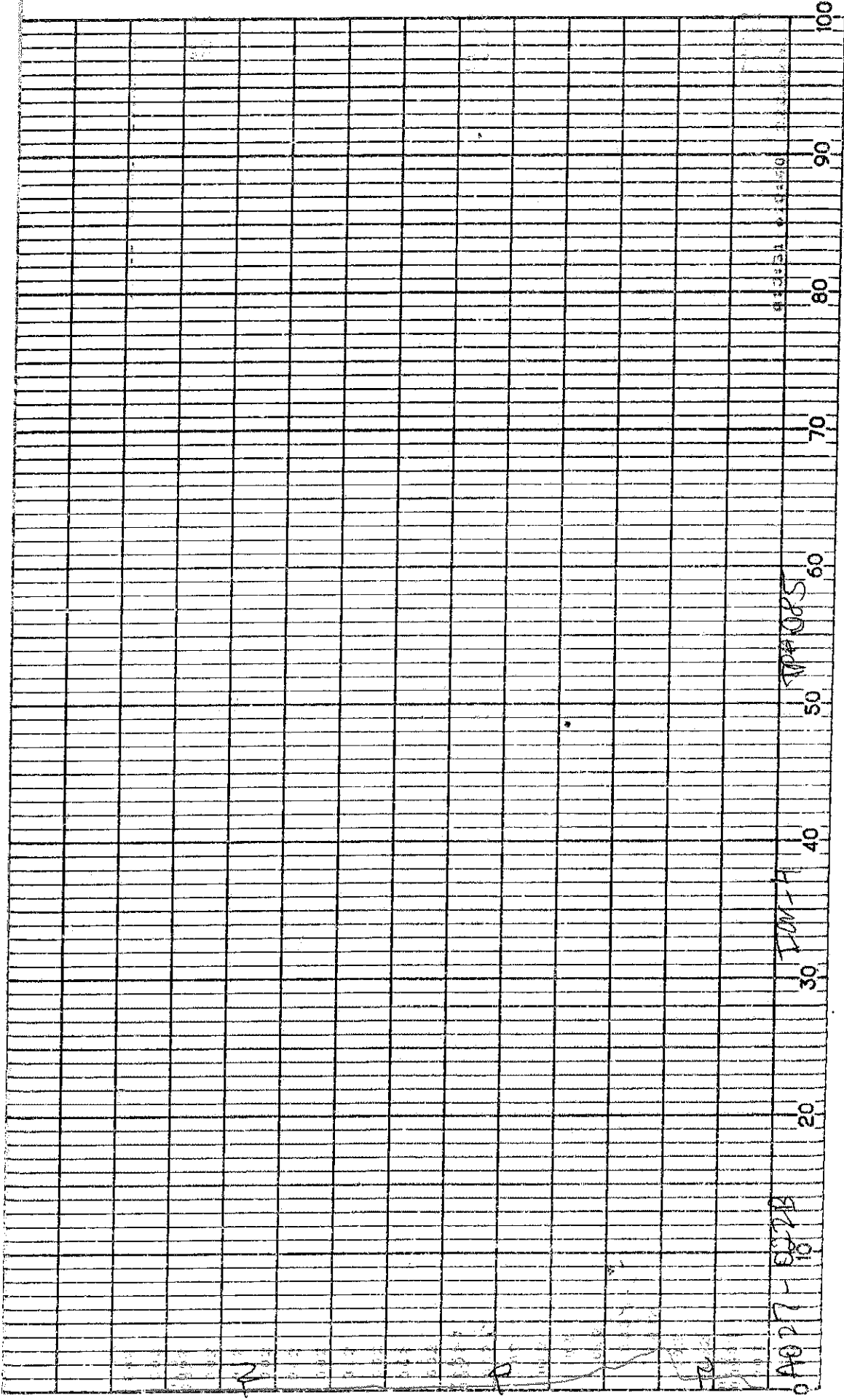


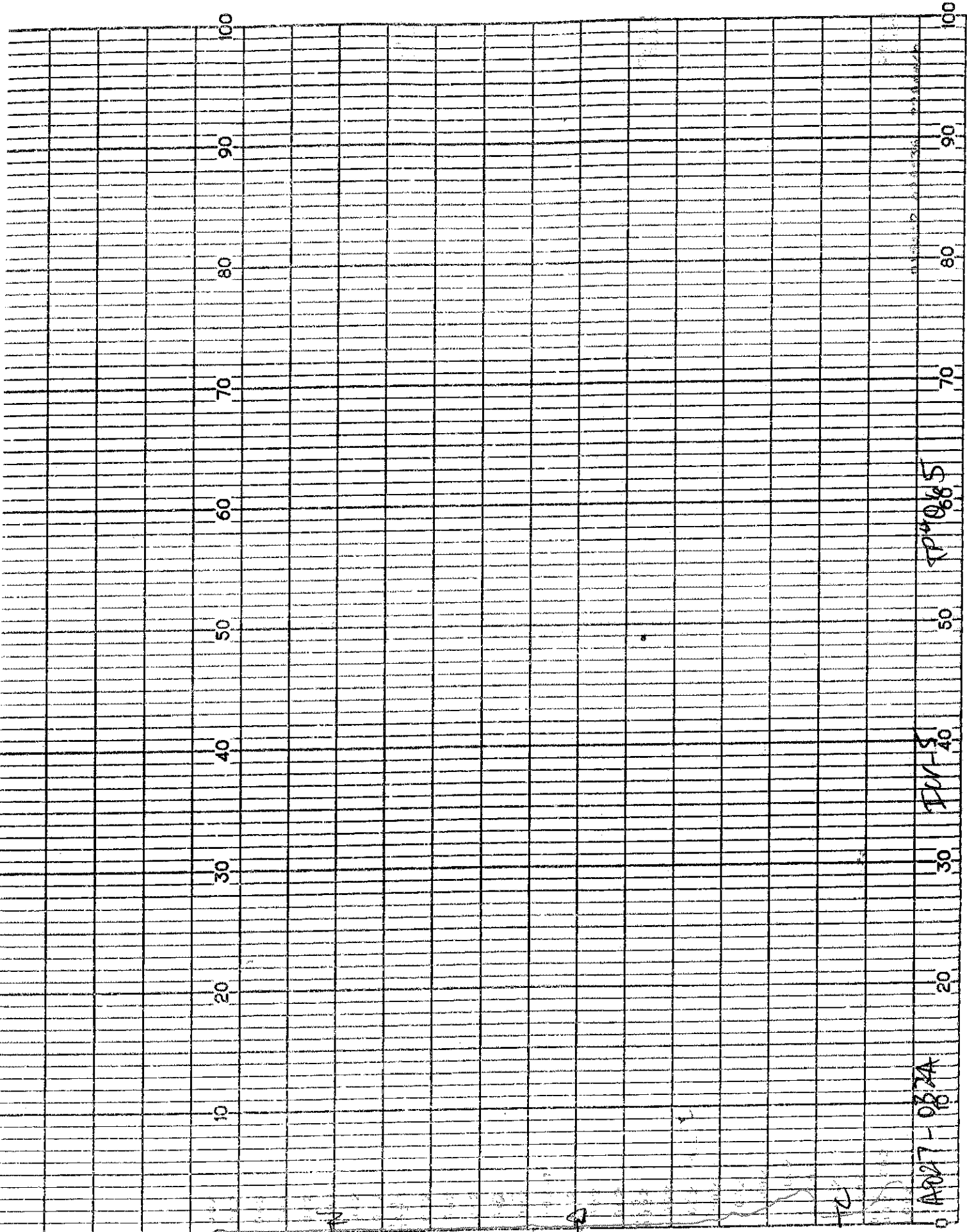
A027-023A

SWTS

FRA 059

07 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100





1. RUC
2. W
3. 0
4. 0
5. 0
6. 0
7. 0
8. 0
9. 0
10. 0

100
90
80
70
60
50
40
30
20
10

ADD7-0328

IFUG

VP#074

03/11/15 08:28:41

TANK PREPARATION

TANK PREPARATIONS

Client: AAA
 Project No.: 21-0883
 Unit Tested: Inlet
 Sampling Date: 17-Mar-21
 Date pressurized: 22-Mar-21

Lab No.: A 027

| Tank ID | Sample ID | Pre-test pressure mm Hg | | Post-test pressure mm Hg | Final Pressure | Comments |
|--------------|---------------|----------------------------|------|-----------------------------|----------------|----------|
| | | 1 | 2 | | | |
| T-17 | A 027 - 011 A | -756 | -756 | -210 | 168 | Run #1A |
| T-10 | A 027 - 011 B | -756 | -756 | -172 | 170 | Run #1B |
| T-1 | A 027 - 021 A | -756 | -756 | -138 | 174 | Run #2A |
| T-7 | A 027 - 021 B | -756 | -756 | -200 | 166 | Run #2B |
| 1 | A 027 - 031 A | -756 | -756 | -240 | 164 | Run #3A |
| 19 | A 027 - 031 B | -756 | -756 | -218 | 164 | Run #3B |
| TRAPS | | | | | | Trap ## |
| ICV-1 | A 027 - 012 A | -758 | NA | -206 | 164 | 110 |
| ICV-2 | A 027 - 012 B | -758 | NA | -202 | 172 | 066 |
| ICV-3 | A 027 - 022 A | -758 | NA | -200 | 164 | 059 |
| ICV-4 | A 027 - 022 B | -758 | NA | -170 | 164 | 085 |
| ICV-5 | A 027 - 032 A | -758 | NA | -168 | 168 | 065 |
| ICV-6 | A 027 - 032 B | -758 | NA | -204 | 162 | 074 |

CALIBRATIONS

24-Jan-20
Current

| | 2 ppm mix | | | | 5 ppm mix | | | | 20 ppm mix | | | | Ave | RSD | |
|-----------------|-----------|--------|----------|----------|-----------|-------|---------|----------|------------|----------|--------|--------|----------|----------|----------|
| | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | | | area 2 |
| Carbon Monoxide | 2.010 | 4192 | 4570 | 4.79E-04 | 4.40E-04 | 4.999 | 9120 | 9293 | 5.48E-04 | 5.38E-04 | 20.32 | 34579 | 35524 | 5.88E-04 | 5.72E-04 |
| Methane | 2.095 | 4688 | 5152 | 4.47E-04 | 4.07E-04 | 4.782 | 9007 | 9294 | 5.31E-04 | 5.15E-04 | 19.47 | 31671 | 32448 | 6.15E-04 | 6.00E-04 |
| Carbon Dioxide | 1.880 | 24809 | 25118 | 7.58E-05 | 7.48E-05 | 4.832 | 47582 | 46513 | 1.02E-04 | 1.04E-04 | 20.39 | 179236 | 179056 | 1.14E-04 | 1.14E-04 |
| Ethane | 2.170 | 17881 | 18052 | 1.21E-04 | 1.20E-04 | 4.986 | 43638 | 43010 | 1.14E-04 | 1.16E-04 | 21.08 | 176965 | 177554 | 1.19E-04 | 1.19E-04 |
| TGNMO | 2.299 | 45794 | 45944 | 5.02E-05 | 5.00E-05 | 7.500 | 131153 | 130291 | 5.72E-05 | 5.76E-05 | 32.10 | 643682 | 640410 | 4.99E-05 | 5.01E-05 |
| Average | 19473 | 19767 | 2.35E-04 | 2.18E-04 | 2.27E-04 | 48100 | 47680.2 | 2.70E-04 | 2.66E-04 | Average | 213227 | 212998 | 2.97E-04 | 2.91E-04 | |
| RSD% | | | | 13.8 | | | Average | 2.68E-04 | | Average | | | 2.94E-04 | | 11.8 |
| | | | | | | | | 2.0 | | | | | | | |
| Average | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Average **2.63E-04**

| | 100 ppm mix | | | | 1000 ppm mix | | | | 2000 ppm mix | | | | Ave | RSD | |
|-----------------|-------------|---------|----------|----------|--------------|---------|-----------|----------|--------------|----------|----------|----------|----------|----------|----------|
| | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | | | area 2 |
| Carbon Monoxide | 100.40 | 167614 | 170386 | 5.99E-04 | 5.89E-04 | 981 | 1700909 | 1708991 | 5.77E-04 | 5.74E-04 | 1986 | 3363251 | 3359567 | 5.91E-04 | 5.91E-04 |
| Methane | 101.50 | 164466 | 166804 | 6.17E-04 | 6.08E-04 | 993 | 1630589 | 1635501 | 6.09E-04 | 6.07E-04 | 2003 | 3262561 | 3261082 | 6.14E-04 | 6.14E-04 |
| Carbon Dioxide | 100.10 | 907081 | 912067 | 1.10E-04 | 1.10E-04 | 1036 | 9479276 | 9518837 | 1.09E-04 | 1.09E-04 | 1999 | 18333302 | 18336448 | 1.09E-04 | 1.09E-04 |
| Ethane | 101.00 | 882252 | 885177 | 1.14E-04 | 1.14E-04 | 994 | 9020471 | 9051689 | 1.10E-04 | 1.10E-04 | 2114 | 18388114 | 18389176 | 1.15E-04 | 1.15E-04 |
| TGNMO | 101.70 | 2085799 | 2095518 | 4.88E-05 | 4.85E-05 | 993 | 20342462 | 20396076 | 4.88E-05 | 4.87E-05 | 2002 | 40302996 | 39855688 | 4.97E-05 | 5.02E-05 |
| Average | 841442 | 845990 | 2.98E-04 | 2.94E-04 | 2.96E-04 | 8434741 | 8462218.8 | 2.91E-04 | 2.90E-04 | Average | 16734045 | 16640392 | 2.96E-04 | 2.96E-04 | |
| RSD% | | | | -0.7 | | | Average | 2.90E-04 | | Average | | | 2.96E-04 | | 0.6 |
| | | | | | | | | 1.3 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Average **2.94E-04**

| RSD, % | 9.772 | 15.540 | 17.340 | 3.340 | 6.084 |
|-----------------------|--------|--------|--------|-------|-------|
| RSD _{CO} = | 9.772 | | | | |
| RSD _{CH4} = | 15.540 | | | | |
| RSD _{CO2} = | 17.340 | | | | |
| RSD _{C2H6} = | 3.340 | | | | |
| RSD _{NMOC} = | 6.084 | | | | |

| CALS - AVE | 5.57E-04 | 5.63E-04 | 1.03E-04 | 1.16E-04 | 5.08E-05 |
|------------|----------|----------|----------|----------|----------|
| CO | 5.57E-04 | | | | |
| CH4 | 5.63E-04 | | | | |
| CO2 | 1.03E-04 | | | | |
| C2H6 | 1.16E-04 | | | | |
| NMOC | 5.08E-05 | | | | |

Calibration Curves Report

File: c:\brukerws\methods\master sqaqmd 25.3 3 ml loop 01-24-20.mth

Detector: 45X-GC, Address: 44, Channel ID: Front

Air/CO

External Standard Analysis

Curve Type: Linear

Origin: Force

$y = +2.850526e+012x$

Replicates 21

200000000

150000000

100000000

50000000

0

0.0025 0.0050 0.0075

Amount (ppmC)

Resp. Fact. RSD: 252.60%

Coeff. Det.(r²): 0.008241

Carbon Dioxide

External Standard Analysis

Curve Type: Quadratic

Origin: Force

$y = -6.359547e-003x^2 + 9.193849e+003x$

Replicates 18

1250000000

1000000000

750000000

500000000

250000000

0

25000 50000 75000 100000 125000

Amount (ppmC)

Resp. Fact. RSD: 17.34%

Coeff. Det.(r²): 0.999906

Ethane

External Standard Analysis

Curve Type: Quadratic

Origin: Force

$y = -3.491328e-001x^2 + 9.441653e+003x$

Replicates 98 3

15000000

10000000

5000000

0

500 1000 1500 2000

Amount (ppmC)

Resp. Fact. RSD: 3.340%

Coeff. Det.(r²): 0.999984

Run File : c:\bruker\sw\data\2020\Jan_20\2020-01-21_12-04-25_Sppr mix inj 3 - master.spc\msd 25.3 3 ml loop -1-24-20.mth
Method File : C:\bruker\sw\methods\master\SOAOMD 25.3 3 ml Loop_01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation : DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02037-3701-ARI-415C **
Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 1

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.538 | -0.002 | 4556 | VV | 2.0 | |
| 2 | Carbon Dioxl | 3.698 | -0.000 | 24609 | BB | 16.5 | |
| 3 | Ethane | 7.402 | 0.003 | 17881 | BB | 25.0 | |
| Totals: | | | | 0.001 | 47246 | | |

Total Unidentified Counts : 26473 counts
 Detected Peaks: 10 Rejected Peaks: 3 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 9 microVolts - monitored before this run
 Manual Injection

Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26
 Operator : Douglass W.
 Workstation: DESKTOP-6VLS8
 Instrument : Lotus NNOCC
 Channel : Middle = FID
 Detector Type: 4XX-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **
 Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 1

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.368 | 0.004 | 4888 | VV | 23.1 | | |
| 2 | Carbon Monox | 5.935 | -0.002 | 4192 | VB | 28.3 | | |
| 3 | NNNEOC | 16.994 | 0.004 | 45764 | BV | 15.2 | | |
| Totals: | | | | 0.006 | 54674 | | | |

Total Unidentified Counts : 25725 counts
 Detected Peaks: 20 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 22 microVolts

Manual injection

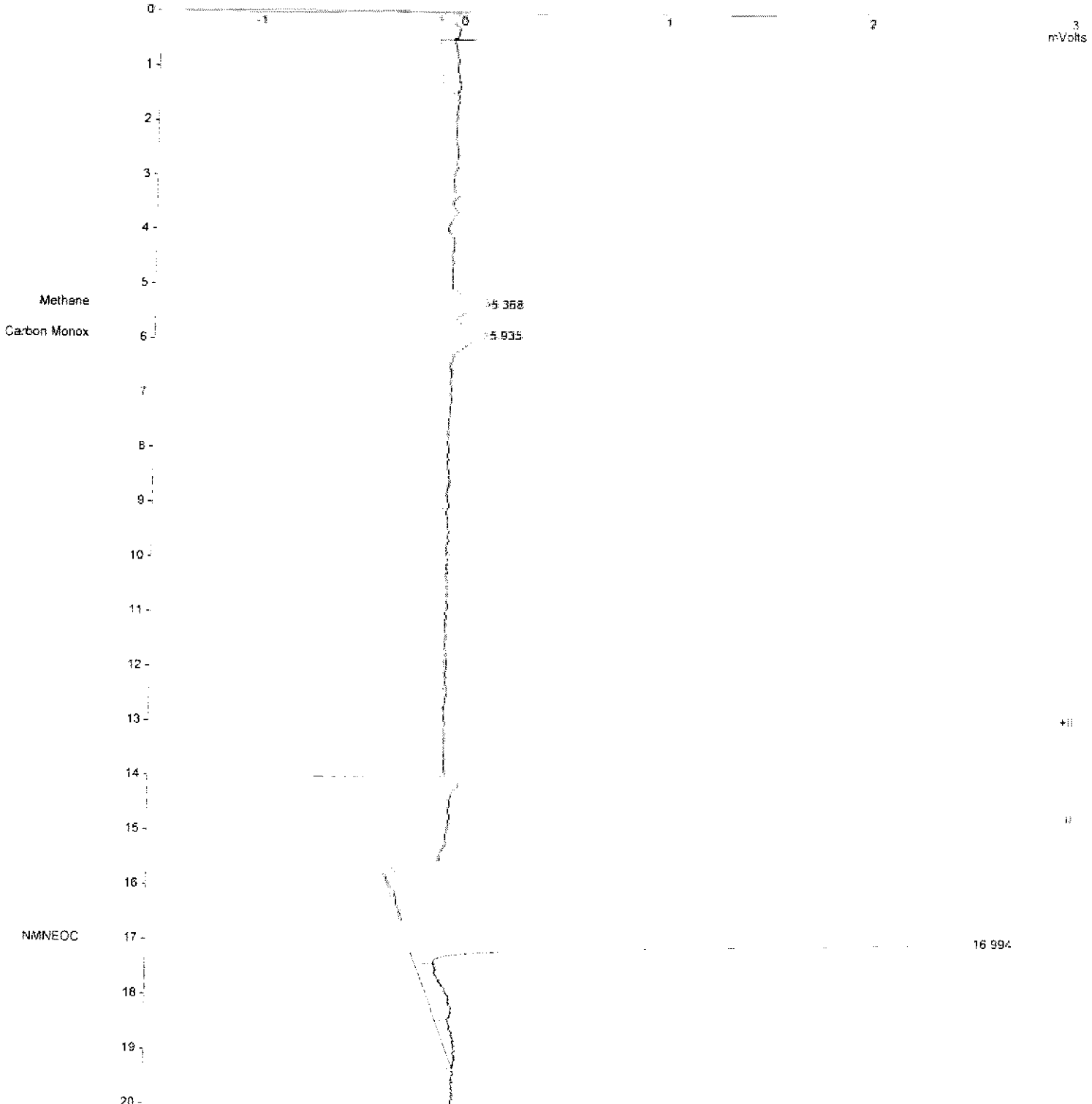
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-04-25 2ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed - 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time - 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-21 12:30 Calculation Date: 2020-01-27 11:26
 Operator : Douglass W.
 Workstation: DESKTOP-6V152
 Instrument : Lotus NMOC
 Channel : Front = FID
 Detector Type: 4XX-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02037-3701-AB1-415C **

Run Mode : Calibration
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 1

| Peak NO | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | 50% Code (sec) | Width L/2 | Status |
|---------|--------------|-----------------|-------------------|---------------|----------------|-----------|--------|
| 1 | Air/CO | 2.538 | -0.000 | 4606 | VV | 2.1 | Cones |
| 2 | Carbon Dioxi | 3.685 | -0.003 | 2518 | SB | 16.6 | |
| 3 | Ethane | 7.396 | -0.006 | 18052 | SB | 25.0 | |
| Totals: | | | | 47176 | | | |

Total Unidentified Counts : 26454 counts
 Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 0
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 12 microVolts - monitored before this run
 Manual Injection

Injection Date: 2020-01-21 12:30 Calculation Date: 2020-01-27 11:26
 Operator : Douglass W.
 Workstation: DESKTOP-6V15B
 Instrument : Lotus NMOC
 Channel : Middle = FID
 Detector Type: 4XX-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ARI-415C **
 Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 1

| Peak NO. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width (sec) | 1/2 Sep. Code | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-------------|---------------|--------------|
| 2 | Methane | 5.365 | -0.002 | 5152 | VV 21.7 | | |
| 3 | Carbon Monox | 5.940 | 0.003 | 4570 | VV 28.0 | | |
| 3 | NNNEOC | 16.988 | -0.003 | 45944 | BV 15.3 | | |
| Totals: | | | | -0.002 | 55656 | | |

Total Unidentified Counts : 28248 counts
 Detected Peaks: 21 Rejected Peaks: 3 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 15 microVolts

Manual Injection

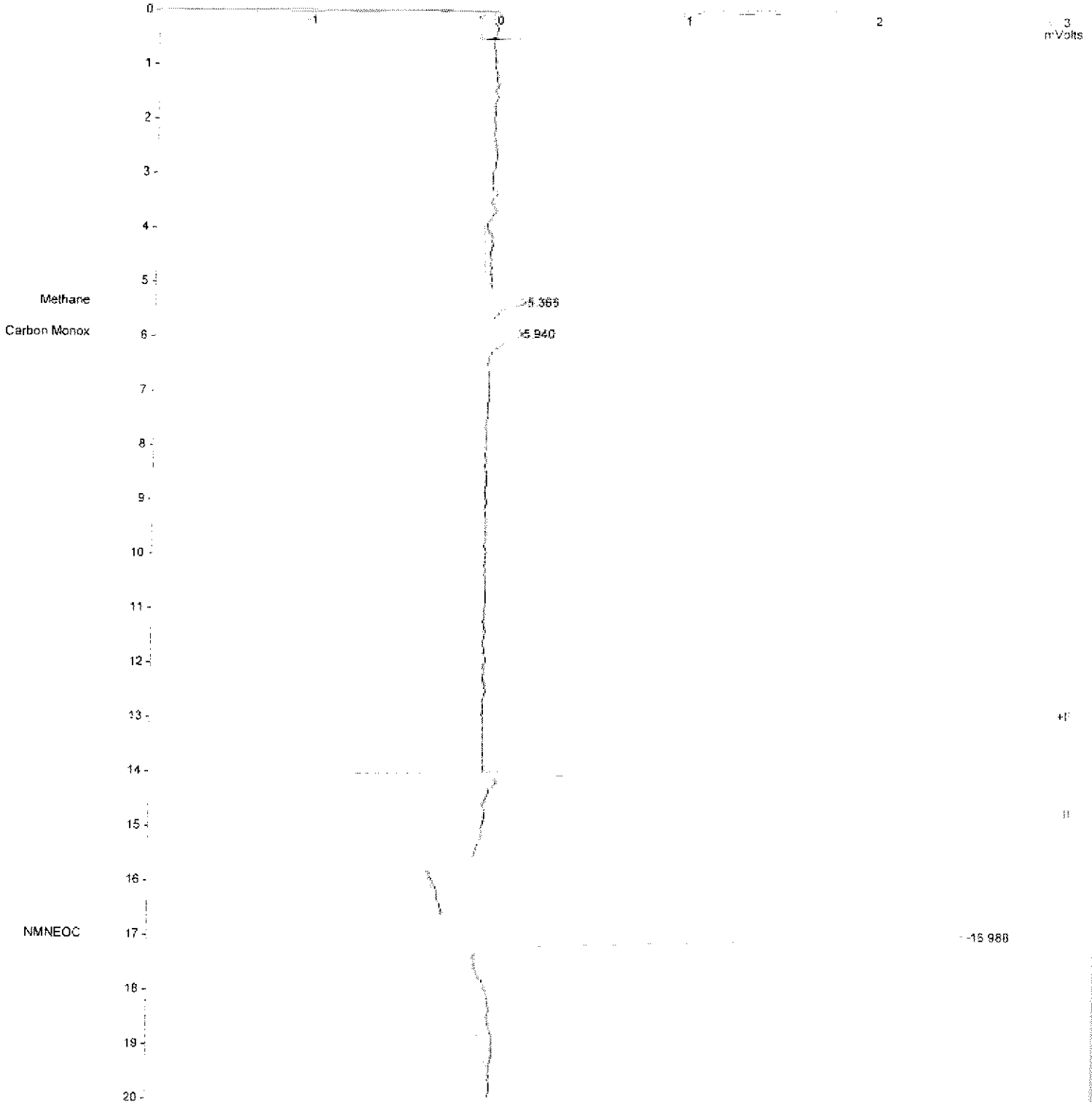
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-30-56 2ppm mix inj 5 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



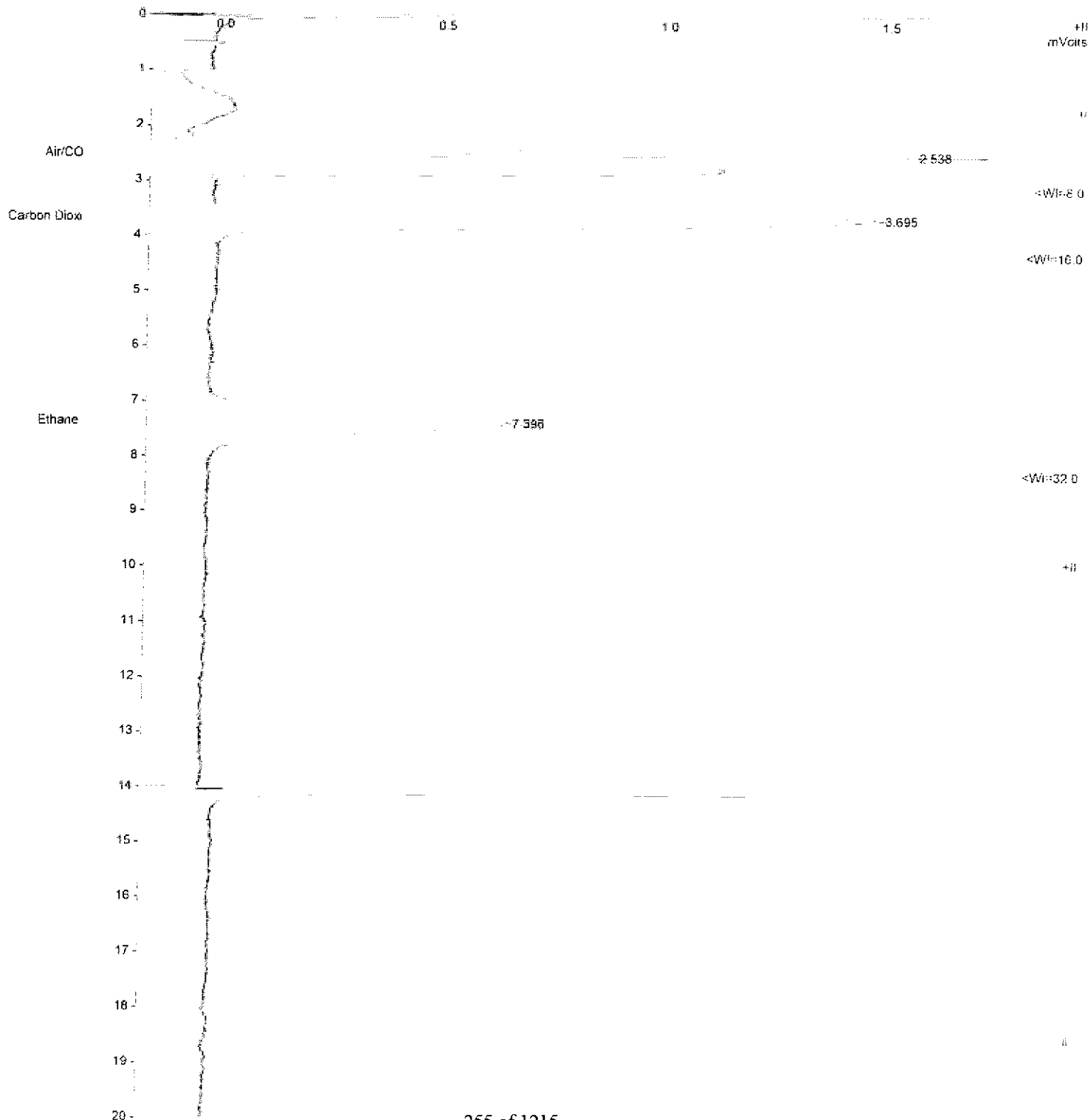
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-30-56 2ppm mix inj 5 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



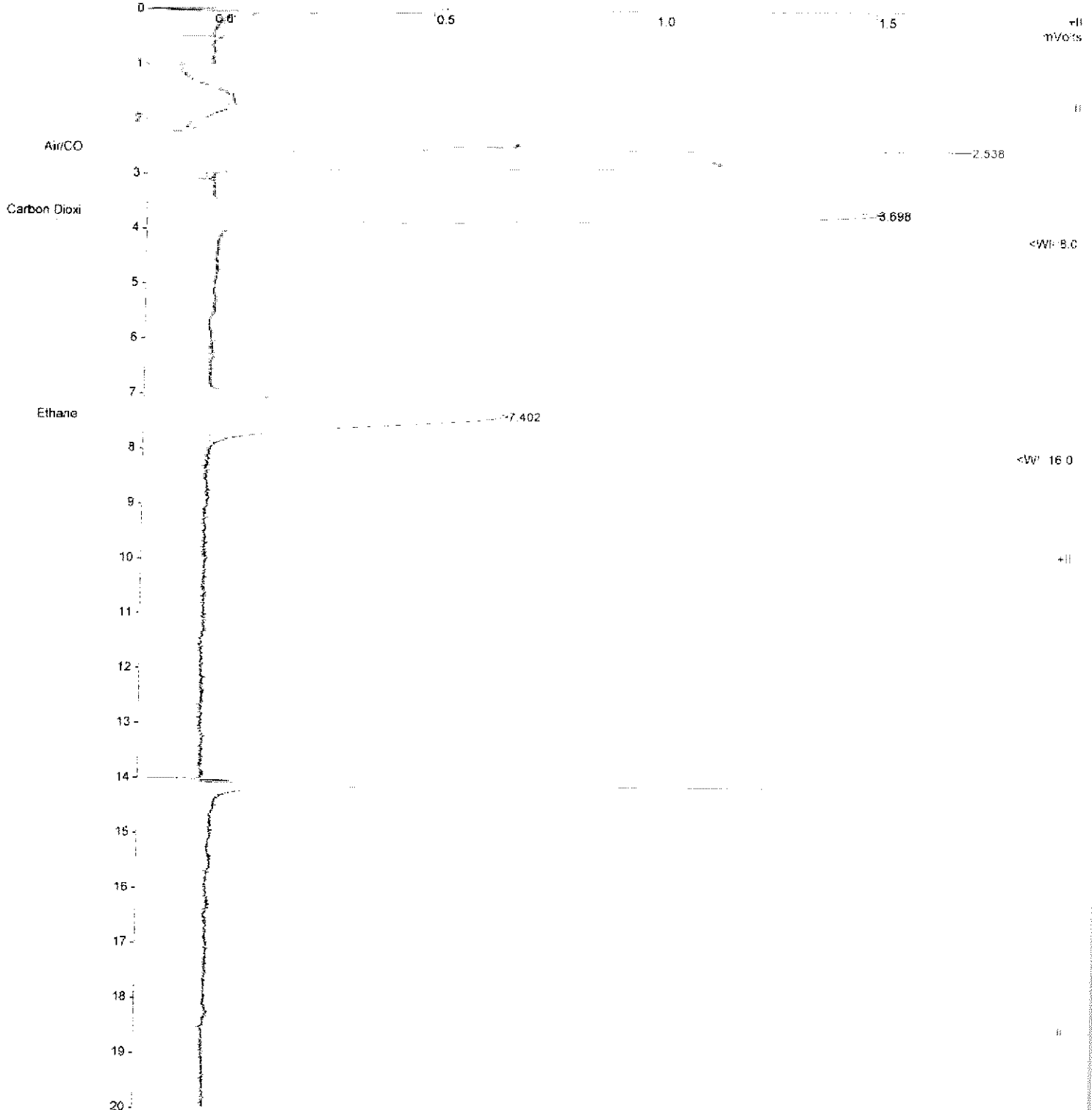
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-04-25 2ppm mix inj 4 - master sqagmd 25.3 3 ml loop 11-28-17.run
Method File : C:\Bruker\WS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed - 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:26
 Operator : Douglass W.
 Workstation: DESKTOP-6VLSB
 Instrument : Lotus NMOG
 Channel : Front = FID
 Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AR1-415C **
 Run Mode : Calibration
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 2

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.534 | -0.003 | 12620 | VV | 2.1 | |
| 2 | Carbon Dioxl | 3.725 | 0.030 | 47582 | BB | 16.5 | |
| 3 | Ethane | 7.400 | 0.004 | 43638 | BB | 25.2 | |
| Totals: | | | | 103840 | | | |

Total Unidentified Counts : 66268 counts
 Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 8 microVolts - monitored before this run
 Manual Injection

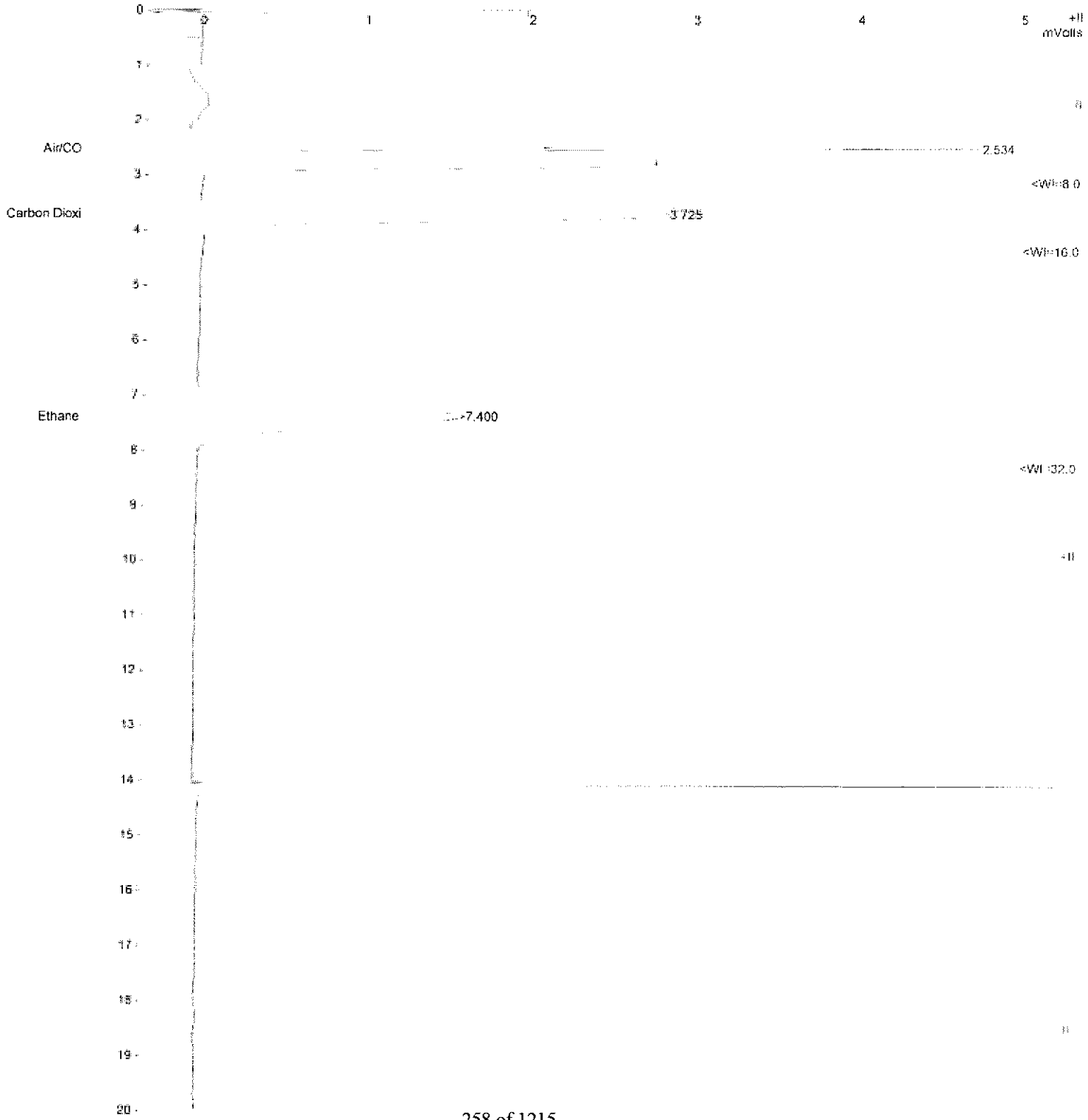
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-20 16-04-09 5ppm mix inj 6 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-8VL5B Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 25.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ARI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:26
 Operator : Douglass W.
 Workstation: DESKTOP-6VH5B
 Instrument : Lotus NMOC
 Channel : Middle = FID
 Detector Type: 4X-CC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSMS 6.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **
 Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 2

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|---------------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.375 | 0.010 | 9007 | VV | 18.0 | |
| 2 | Carbon Monox | 5.948 | 0.008 | 9120 | VV | 22.2 | |
| 3 | NMNEOC | 16.185 | -0.803 | 131153 | RP | 29.5 | |
| ----- Totals: | | | | 149280 | | | |

Total Unidentified Counts : 16623 counts
 Detected Peaks: 21 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSP: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 14 microVolts

Manual Injection

Title :
Run File : c:\bruker\sw\data\2020\Jan_20\2020-01-20_16-30-29_5ppm.mix.inj 7 -- master sqcmd 25.3 3 ml loop 01-24-20.msh
Method File : C:\bruker\sw\methods\Master SQCMD 25.3 3 ml Loop 01-24-20.msh
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W.
Workstation: DESKTOP-6VL5B
Instrument : Lotus NMO
Channel : FID
Detector Type: 4X-6C (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION version 8.0.1 ** 02057-3701-ARI-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width 1/2 | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------------|-----------|--------------|
| 1 | Alk/CO | 2.534 | 0.000 | 12787 | VV | 2.1 | |
| 2 | Carbon Dioxi | 3.723 | -0.002 | 46513 | BB | 16.5 | |
| 3 | Ethane | 7.398 | -0.001 | 43010 | BB | 35.1 | |
| Totals: | | | | 102310 | | | |

Total Unidentified Counts : 63753 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 3

Multipplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSE: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual Injection

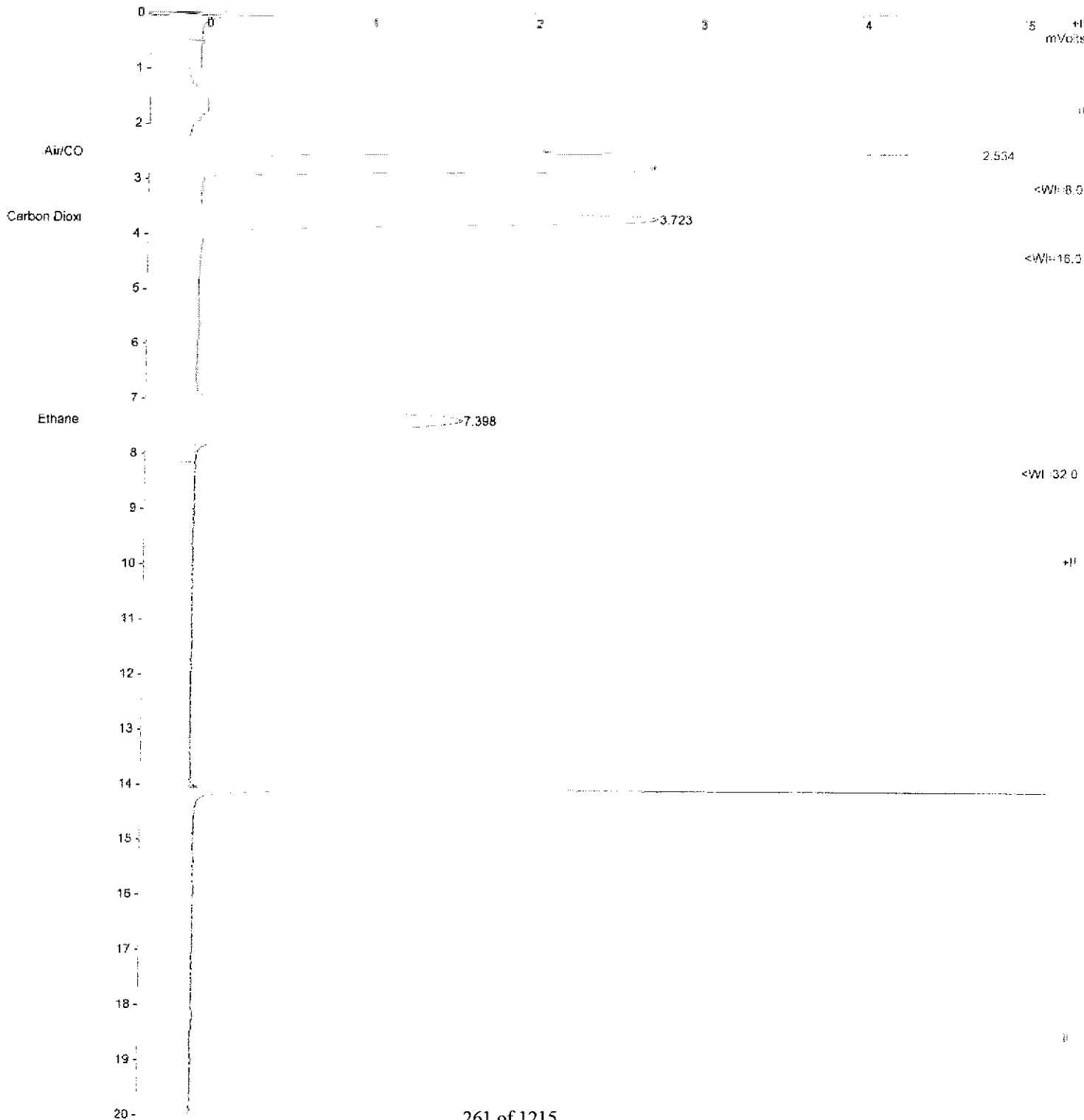
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-20 16-30-29 5ppm mix inj 7 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLS5B Bus Address : 44
Instrument : Lotus N90C Sample Rate : 5.00 Hz
Channel : Front - FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed - 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time - 0.000 min End Time = 20.000 min Min / tick = 1.00



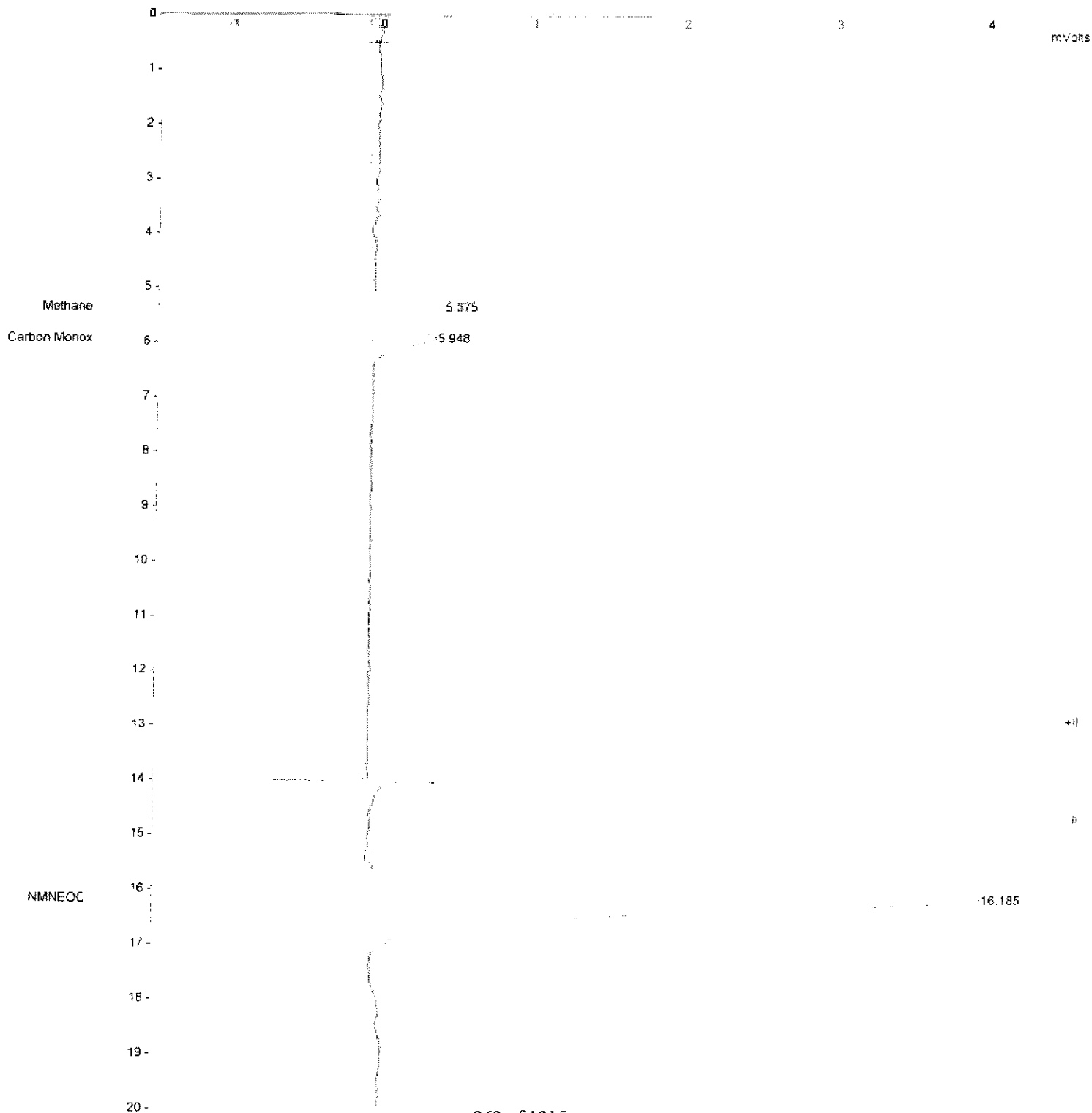
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-20 16-04-09 5ppm mix inj 6 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL58 Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0.5
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerws\data\2020\jan_20\2020-01-20_16-30-29_5ppm_mix_inj_7 - master sqcmd 25.3 ml loop 1.-24-20.run
Run File : C:\brukerws\data\2020\jan_20\2020-01-20_16-30-29_5ppm_mix_inj_7 - master sqcmd 25.3 ml loop 01-24-20.run
Method File : C:\brukerws\methods\master_sqcmd 25.3 ml loop 01-24-20.run
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26
Operator : Douglass W.
Workstation: DESKTOP6VLSB
Instrument : Lotus NMOG
Channel : Middle = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **
Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width 1/2 (sec) | Sep. Code | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------------|-----------|--------------|
| 1 | Methane | 5.376 | 0.002 | 9293 | VV 18.1 | | |
| 2 | Carbon Monox | 5.753 | 0.005 | 9294 | VB 22.4 | | |
| 3 | NMNEOC | 16.198 | 0.013 | 130291 | BP 29.5 | | |
| Totals: | | | 0.020 | 148878 | | | |

Total Unidentified Counts : 17698 counts

Detected Peaks: 25 Rejected Peaks: 1 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 24 microVolts

Manual Injection

Methane

External Standard Analysis

Curve Type: Linear

Origin: Force

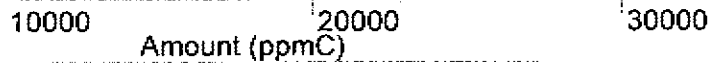
$y = +1.613548e+003x$

Replicates 123 3

Resp. Fact. RSD: 15.54%

Coeff. Det.(r²): 0.999800

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Carbon Monoxide

External Standard Analysis

Curve Type: Linear

Origin: Force

$y = +1.730324e+003x$

Replicates 123

Resp. Fact. RSD: 9.772%

Coeff. Det.(r²): 0.999791

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NMNEOC

External Standard Analysis

Curve Type: Linear

Origin: Force

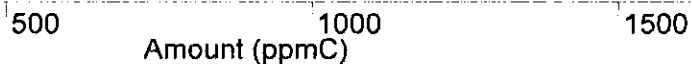
$y = +2.021525e+004x$

Replicates 93 3

Resp. Fact. RSD: 6.084%

Coeff. Det.(r²): 0.999808

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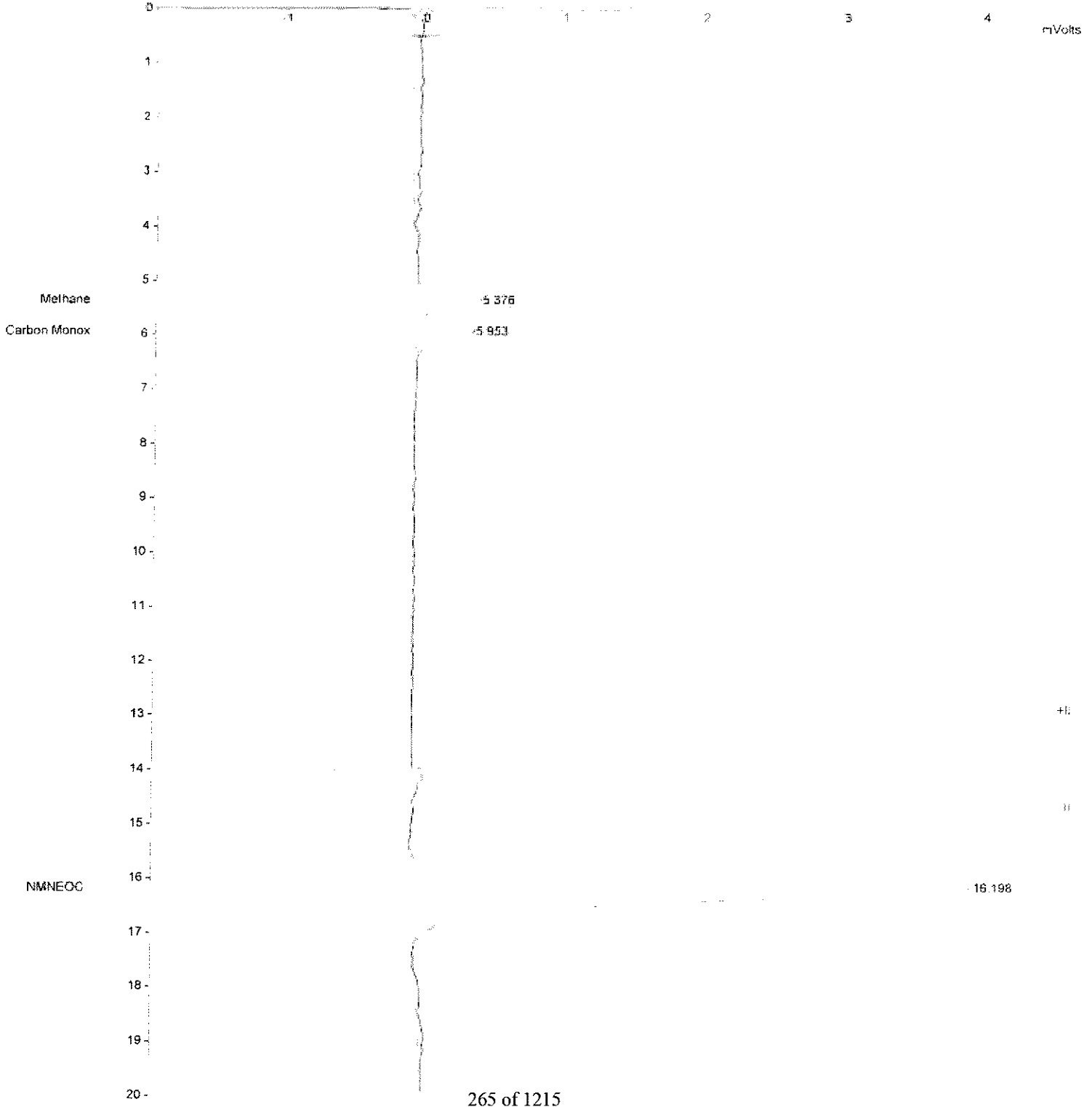
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-20 16-30-29 5ppm mix inj 7 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-67J5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = \ Zero Offset = 01
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerws\data\2020\Jan_20\2020-01-22_10-43-59_20ppm mix inj 3 - master sqcmd 25.3 3 ml loop 01-24-20.mth
Run File : C:\brukerws\data\2020\Jan_20\2020-01-22_10-43-59_20ppm mix inj 3 - master sqcmd 25.3 3 ml loop 01-24-20.mth
Method File : C:\brukerws\methods\Master SQCMD 25.3 ml Loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15R Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION version 8.0.1 ** 02057-3701-AB1-415C **
Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width (sec) | 1/2 Code | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-------------|----------|--------------|
| 1 | Air/CO | 2.532 | -0.003 | 43396 | VV | 2.1 | |
| 2 | Carbon Dioxl | 3.731 | 0.004 | 179236 | BB | 16.2 | |
| 3 | Ethene | 7.391 | 0.009 | 176965 | BB | 25.2 | |
| Totals: | | | | 405597 | | | |

Total Unidentified Counts : 268977 counts
Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSR: 1 microVolts
Noise (used): 15 microVolts - monitored before this run
Manual injection

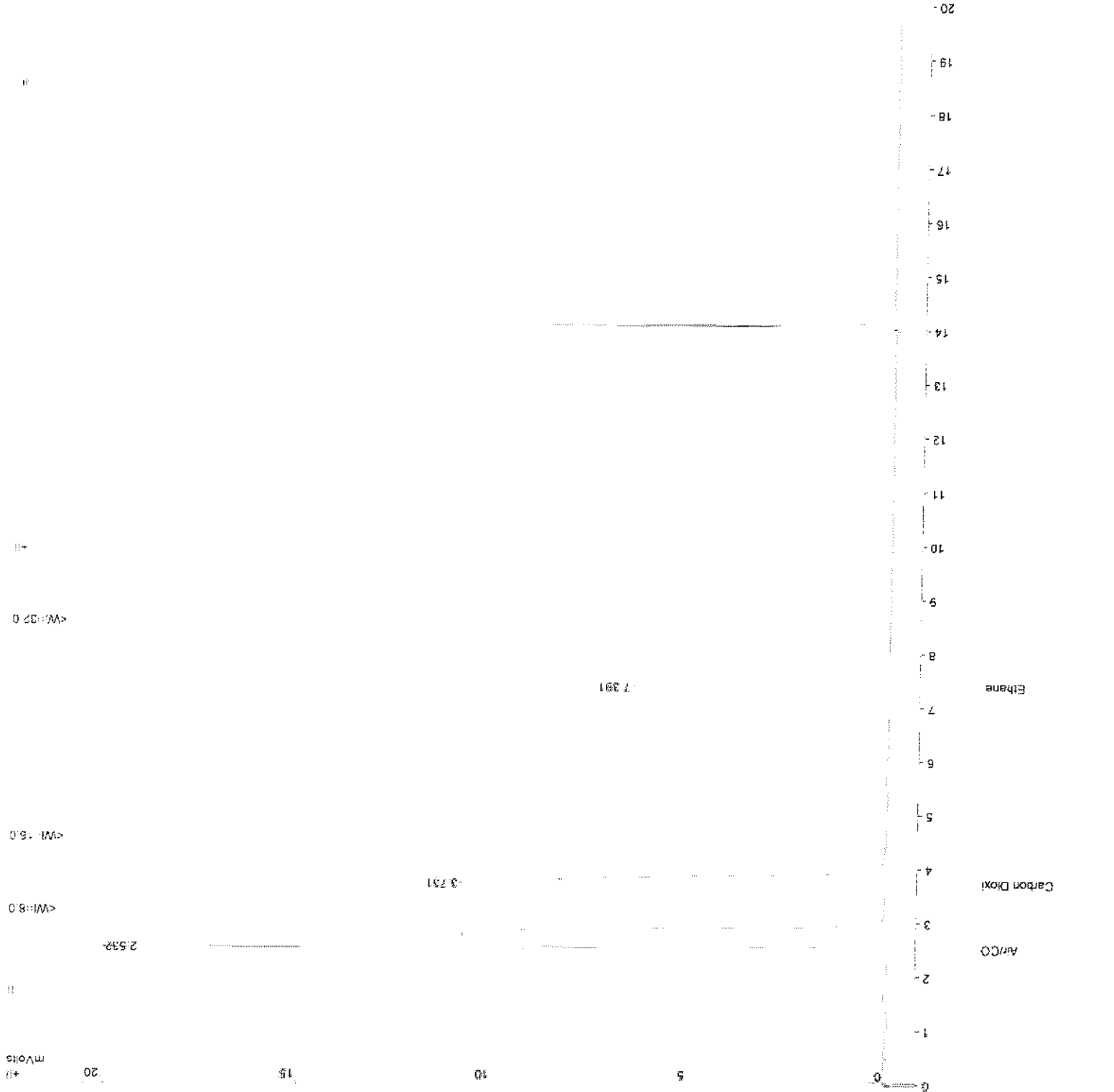
Run File : c:\bruker\data\201201-22_10-43-59_20ppm_max_inj_3 - master sqand 25.3 3 ml loop 11-28-17.run
Method File : c:\bruker\method\Master SQAND 25.3 3 ml Loop 01-24-20.run
Sample ID : 20ppm mix

Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27

Operator : Douglas M.
Workstation: DESKTOP-6V15B
Detector Type: FID
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** SMS 8.0.1 for SCIEX version 8.0.1 ** (2057-3701-ARI-4150) **

Chart Speed = 0.99 cm/min Attenuation = 1
Zero Offset = 0.0
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27
 Operator : Douglass W. Detector Type: 4XX-GC (1000 volts)
 Workstation: DESKTOP-6VL5B Bus Address: 44
 Instrument : Lotus NMOG Sample Rate: 5.00 Hz
 Channel : Middle = FID Run Time: 20.000 min

** MSWS 8.0.1 for SCION Version #0.0.1 ** 02057-1701-AM-415C **
 Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.362 | -0.014 | 31671 | VV | 17.1 | |
| 2 | Carbon Monox | 5.917 | -0.035 | 34579 | VB | 21.1 | |
| 3 | NNNEOC | 16.161 | -0.033 | 643682 | PB | 28.8 | |
| Totals: | | | | 709932 | | | |

Total Unidentified Counts : 18518 counts
 Detected Peaks: 22 Rejected Peaks: 3 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 17 microVolts
 Manual injection

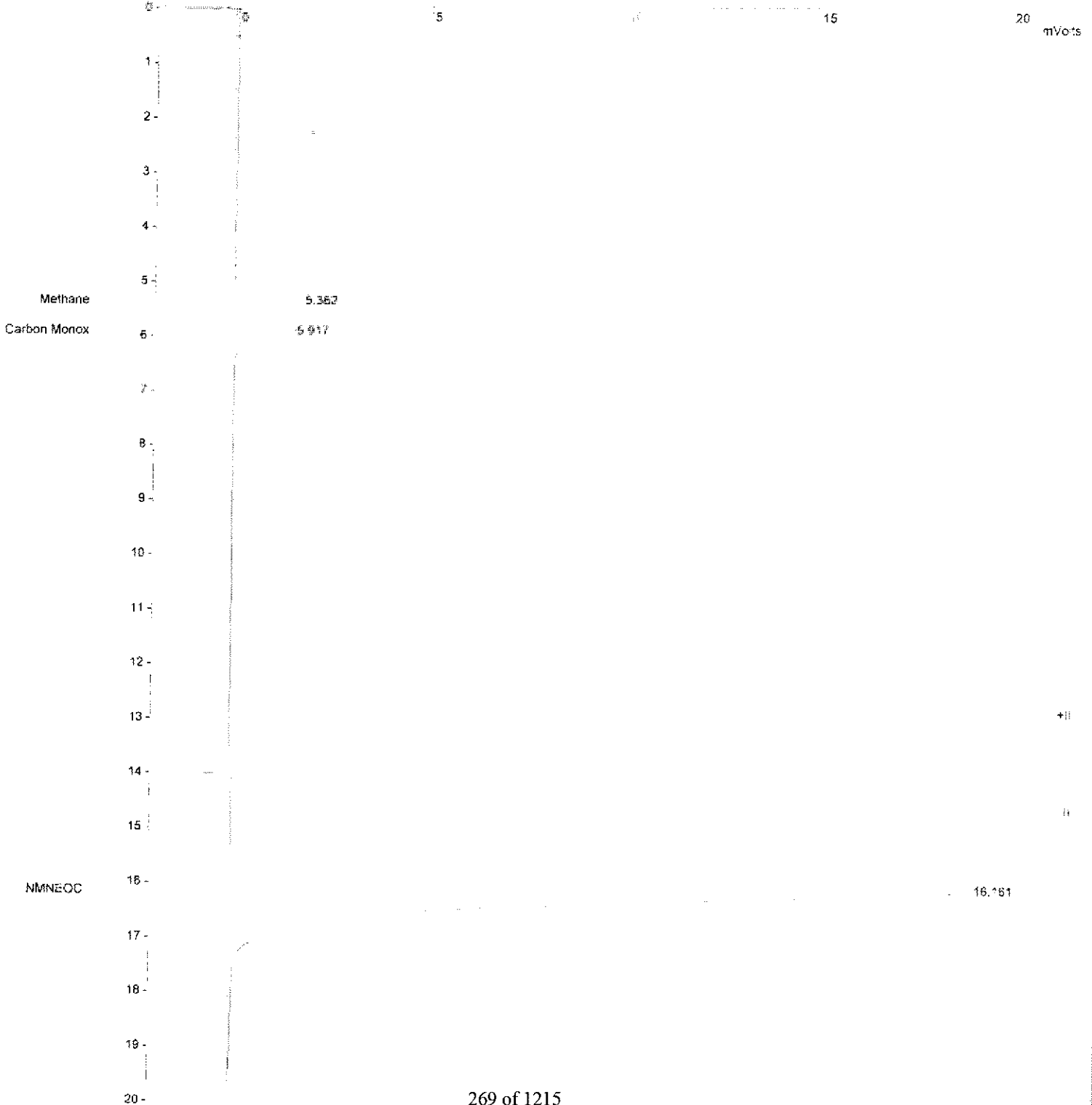
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 10-43-59 20ppm mix inj 3 - master sqacmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0?
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : C:\brukerws\data\2020\jan_28\2020-01-22 11-10-19 20ppm mix inj 4 * master sqcmd 25.3 3 ml loop 01-24-20.mth
Method File : C:\brukerws\methods\master_sqcmd 25.3 3 ml loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
Workstation: DESKTOP-6VL5B
Instrument : Lotus NMCC
Channel : Front = FID
Detector Type: 4X-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 0.0.1 for SCIOM Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.532 | -0.000 | 49446 | VV | 2.1 | |
| 2 | Carbon Dioxl | 3.731 | 0.000 | 179056 | BB | 16.3 | |
| 3 | Ethane | 7.593 | 0.003 | 177554 | BB | 25.2 | |
| Totals: | | | | 406056 | | | |

Total Unidentified Counts : 270626 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 18 microVolts - monitored before this run

Manual Injection

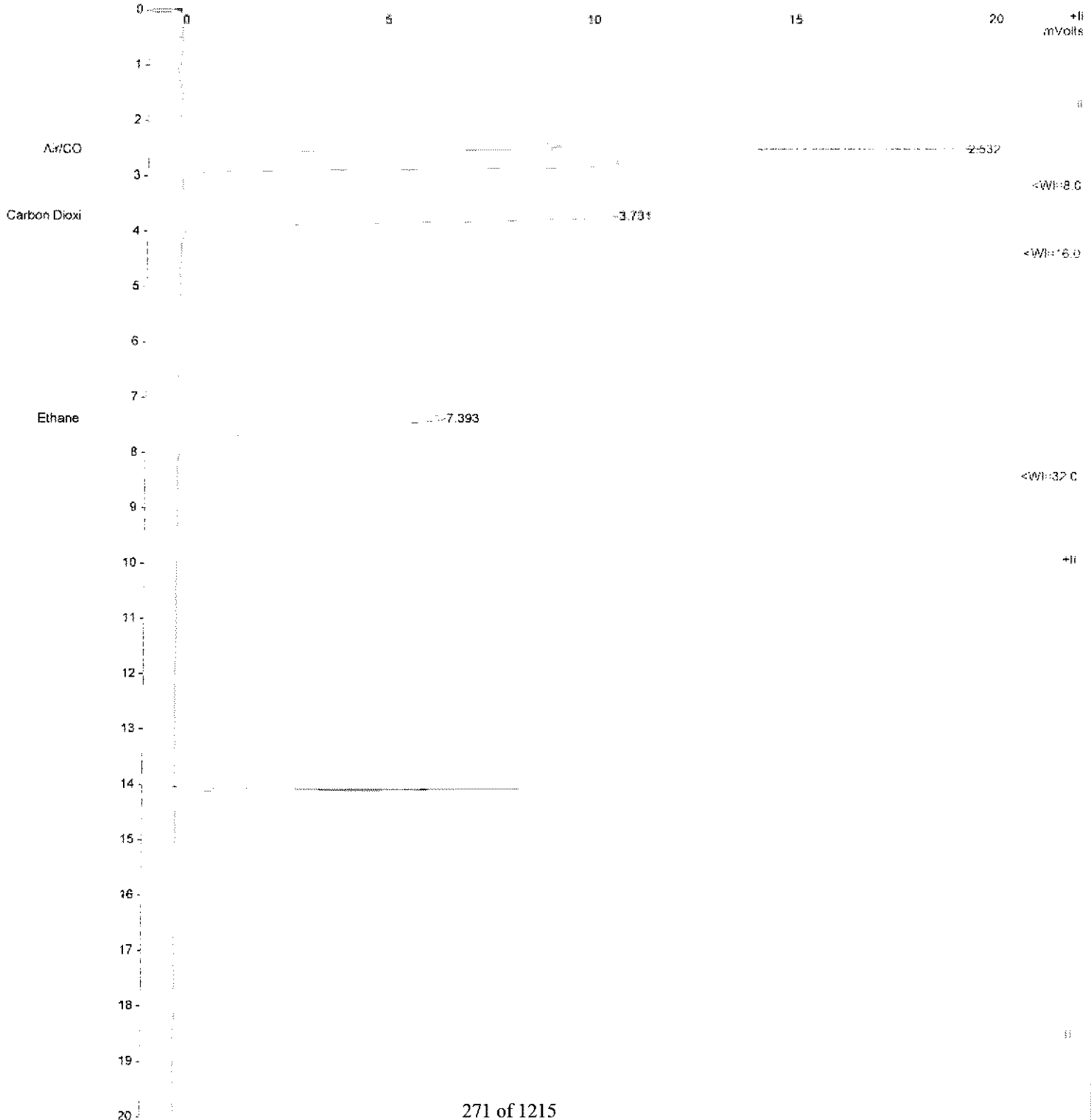
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 11-10-19 20ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLS9 Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = PID Run Time : 20.000 min

^^ MSWS 3.0.1 for SCLCN Version 8.0.1 ^^ 02037-3701-A31-413C ^^

Chart Speed - 0.99 cm/min Attenuation = 1 Zero Offset = 05
Start Time - 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : c:\bruker\sw\data\2020\Jan_20\2020-01-22_11-10-19_20ppm_mix_inj_4 - master.sgsqmd 25.3 3 ml Loop 01-24 20.mth
Method File : C:\bruker\sw\methods\master\SCAQMD 25.3 3 ml Loop 01-24 20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Lotus NMOC
Channel : Middle = FID
Detector Type: 4XX-CC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.360 | -0.002 | 32448 | VV | 17.1 | |
| 2 | Carbon Monox | 5.918 | 0.001 | 35524 | VB | 21.0 | |
| 3 | NMNEOC | 16.152 | -0.008 | 640410 | FB | 28.7 | |
| Totals: | | | | 708382 | | | |

Total Unidentified Counts : 17733 counts

Detected Peaks: 23 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 18 microVolts

Manual Injection

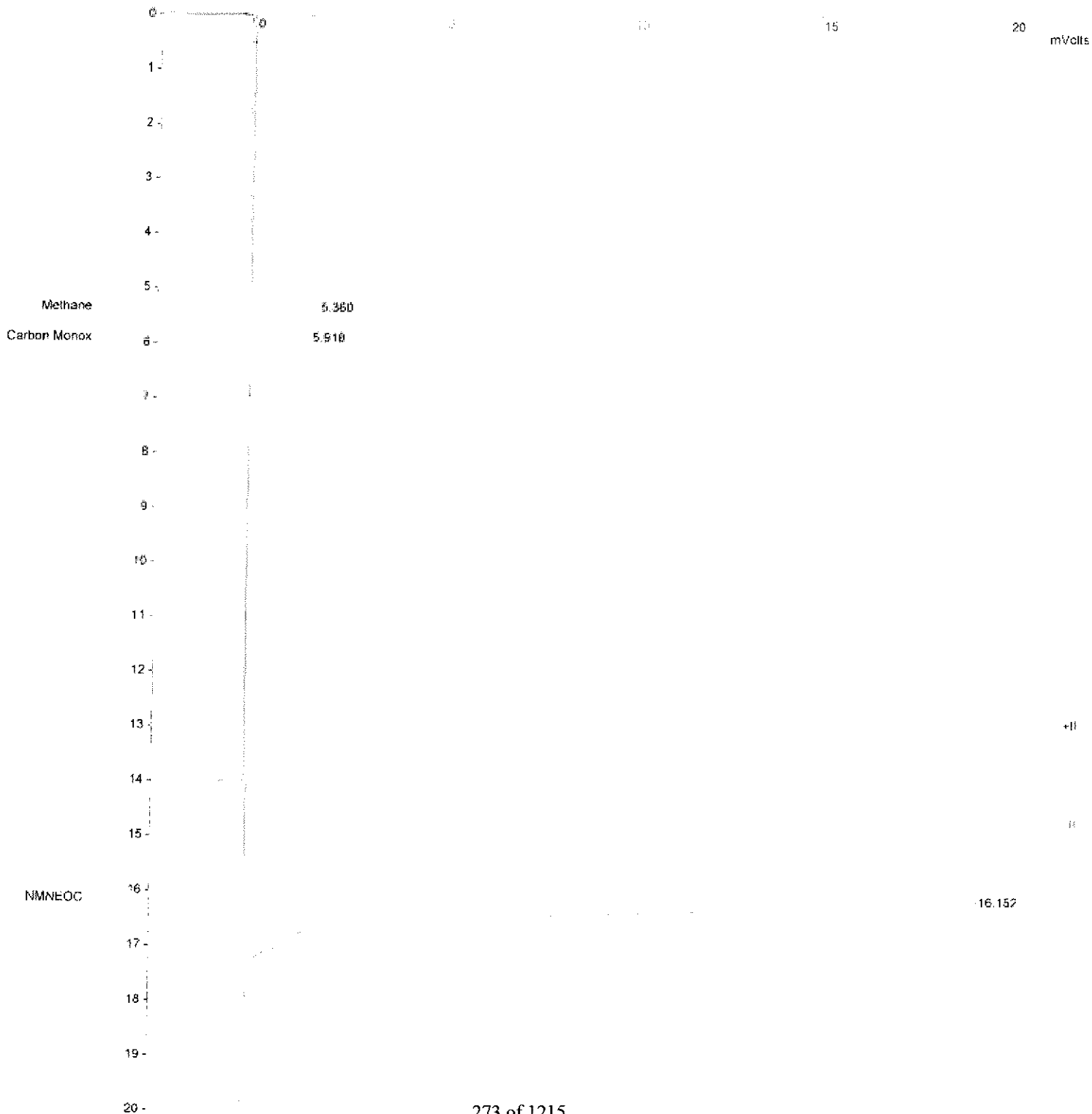
Title :
Run File : c:\brukerws\data\2020\jan 20\2020-01-22 11-10-19 20ppm mix inj 4 - master sqagmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-3VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02657-3701-AB1-415C **

Chart Speed - 0.99 cm/min Attenuation = 1 Zero Offset - 13
Start Time - 0.000 min End Time = 20.000 min Min / Tick - 1.00



Run File : C:\bruker\sw\data\2020\Jan_20\2020-01-22 15-34-55 100ppm mix.fid
Method File : C:\bruker\sw\methods\waster SQCMD 25.3 ml Loop 01-24-20.mh
Sample ID : 100ppm mix

Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27
Operator : Douglass W.
Workstation: DESKTOP-6V15B
Instrument : Lotus NMOG
Channel : Front = FID

** MSMS 8.0.1 for SCLD3 Version 8.0.1 ** 02057-3701-AB1-415C **
Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------------|--------------|
| 1 | Air/CO | 2.531 | -0.001 | 246093 | VV 2.0 | |
| 2 | Carbon Diox1 | 3.732 | -0.001 | 907081 | BB 16.0 | |
| 3 | Ethane | 7.391 | 0.001 | 882252 | BB 25.1 | |
| Totals: | | | | 2035426 | | |

Total Unidentified Counts : 1450073 counts
Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 17 microVolts - monitored before this run
Manual injection

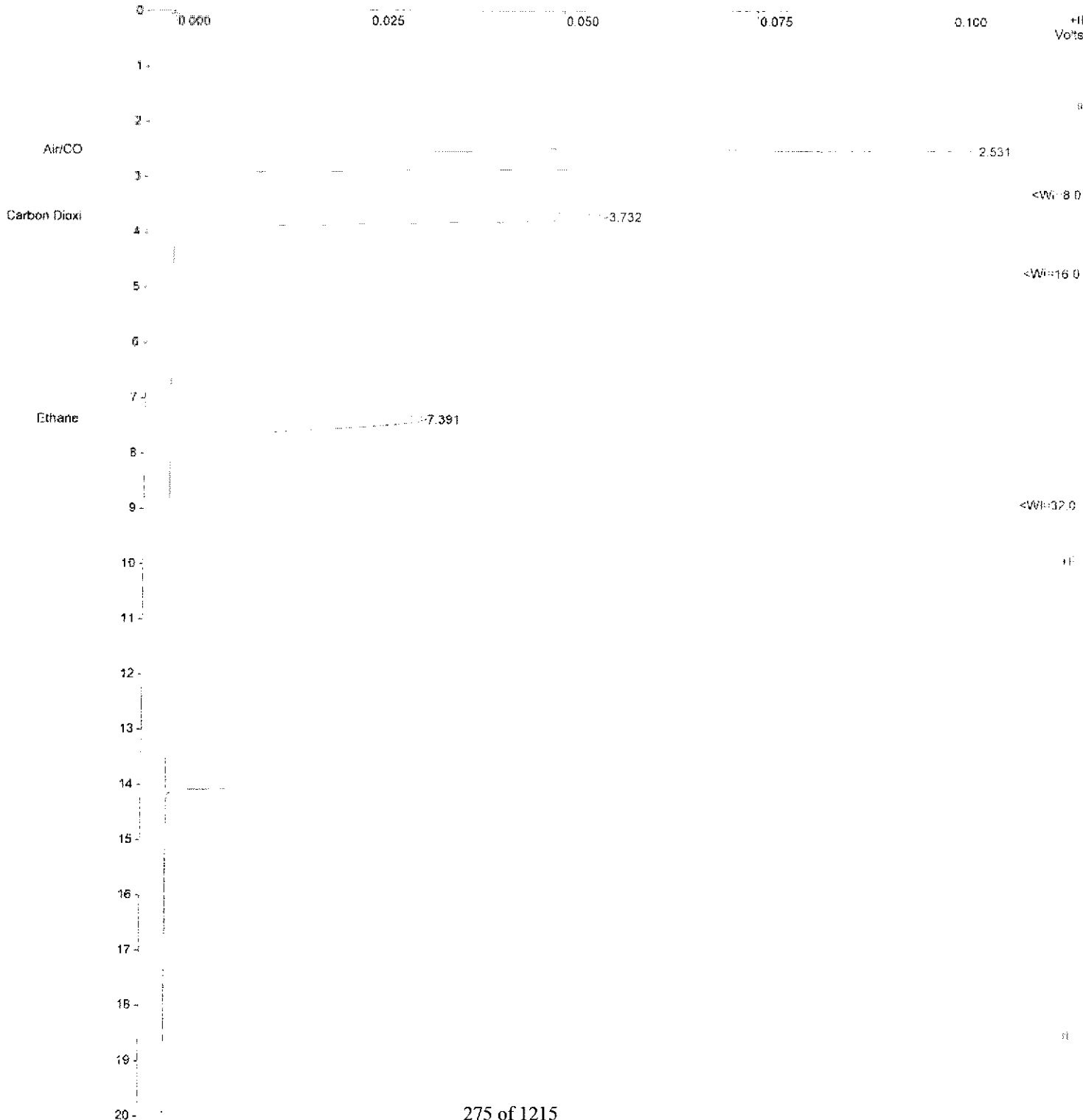
Title :
 Run File : c:\brukerws\data\2020\jan_20\2020-01-22 15-34-55 100ppm mix inj 7 - master sqagmd 25.3 3 ml loop 11-28-17.run
 Method File : C:\BrukerWS\methods\Master_SQAQMD 25.3 3 ml Loop 01-24-20.mth
 Sample ID : 100ppm mix

Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VLSB Bus Address : 44
 Instrument : Locus NMOC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 For SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 mm/min Attenuation = 1 Base Offset = 11
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Bruker\MSData\2020\Jan 20\2020-01-22 15-34-55 100ppm mix 165 7 - master sqagmd 25.3 3 ml loop 1.-24-20.mnh
Run File : C:\Bruker\MSData\2020\Jan 20\2020-01-22 15-34-55 100ppm mix 165 7 - master sqagmd 25.3 3 ml loop 1.-24-20.mnh
Method File : C:\Bruker\MSData\2020\Jan 20\2020-01-22 15-34-55 100ppm mix 165 7 - master sqagmd 25.3 3 ml loop 1.-24-20.mnh
Sample ID : 100ppm mix

Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27
Operator : Donlass W
Workstation : DESKTOP-6V15B
Instrument : Lotus NROC
Channel : Middle = FID
Detector Type: 4X-5C (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **
Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.366 | -0.001 | 164466 | VV | 16.7 | |
| 2 | Carbon Monox | 5.911 | -0.001 | 167614 | VB | 20.5 | |
| 3 | NMNEOC | 16.989 | 0.056 | 2085799 | BB | 14.7 | |
| Totals: | | | 0.054 | 2417879 | | | |

Total Unidentified Counts : 15732 counts
 Detected Peaks: 20 Rejected Peaks: 5 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 25 microVolts
 Manual REJECTION

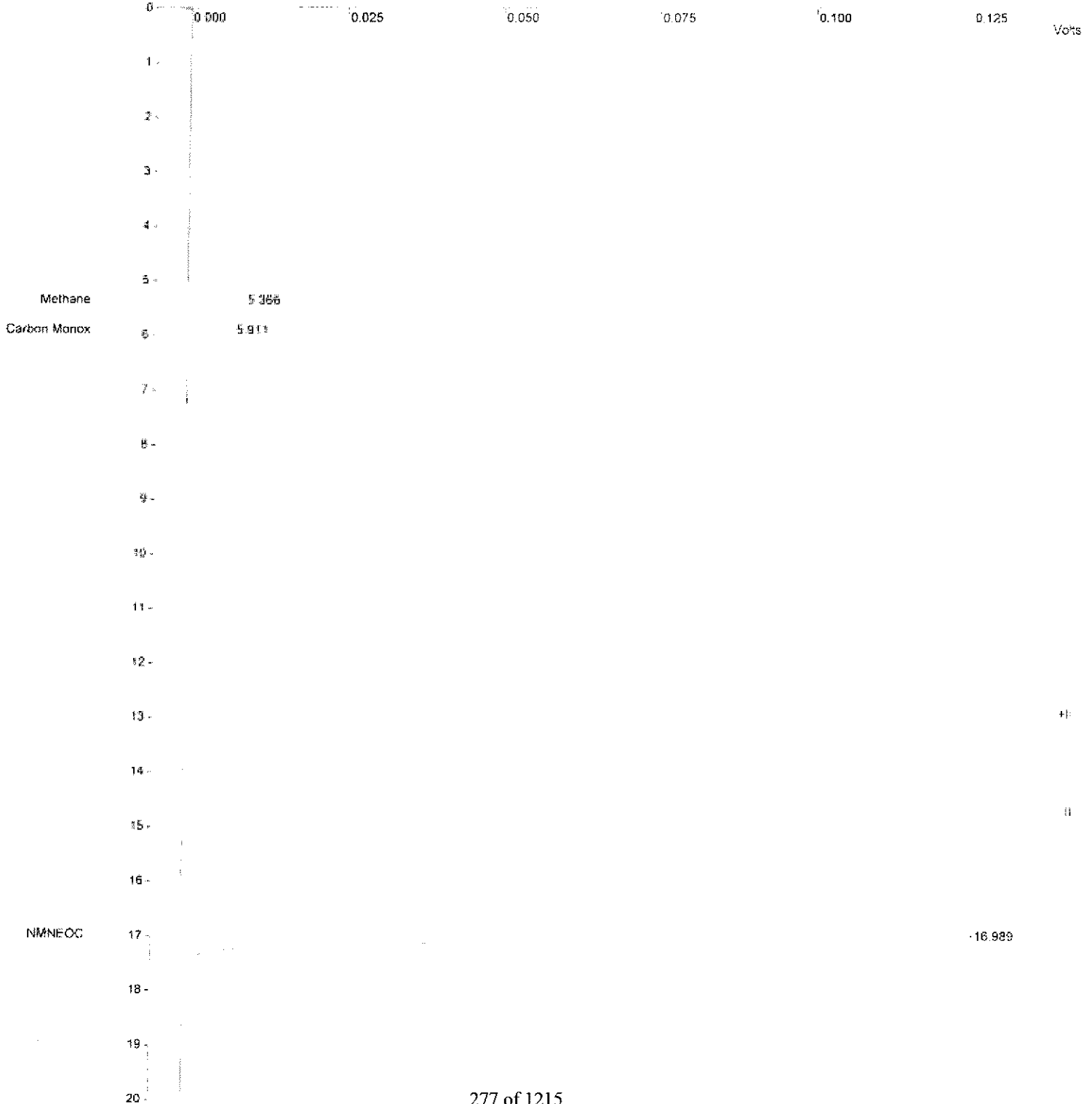
Title :
 Run File : c:\bruker\sw\data\2020\jan 20\2020-01-22 15-34-55 100ppm mix inj 7 - master sqagmd 25.3 3 ml loop 11-29-17.run
 Method File : C:\Bruker\SW\methods\Master SQAQMD 25.3 3 ml loop 01-24-20.mth
 Sample ID : 100ppm mix

Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VL5B Bus Address : 44
 Instrument : Lotus NMOC Sample Rate : 5.00 Hz
 Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 2%
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



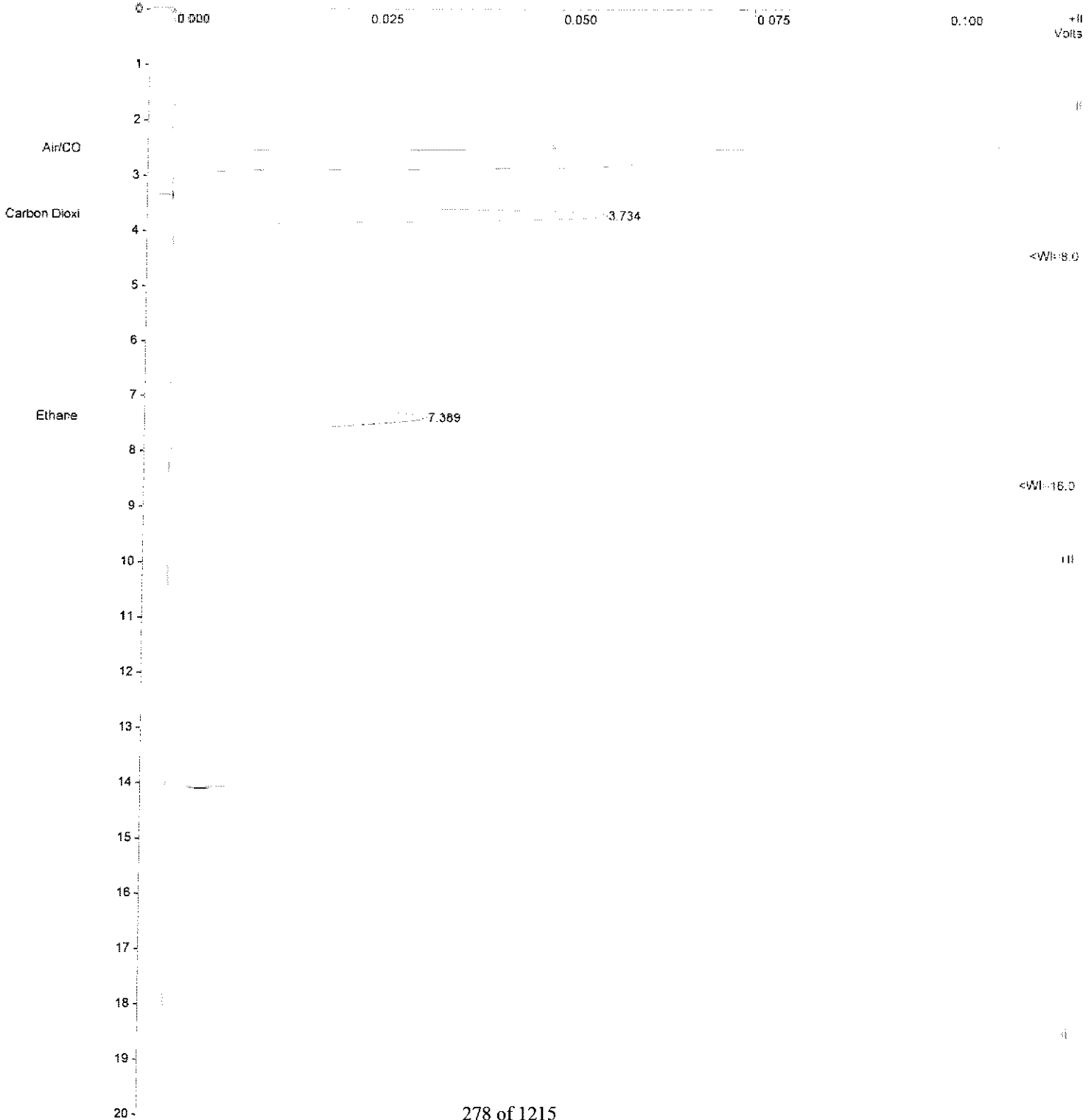
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 16-01-31 100ppm mix inj 8 - master sqagmd 25.3 3 ml loop 11-23-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 100ppm mix

Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 13
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
 Workstation: DESKTOP-EVLSB
 Instrument : Lotus NMOC
 Channel : Front = FID

Detector Type: 4XX-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Calibration
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width (sec) | Sep. Code | 1/2 | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-------------|-----------|-----|--------------|
| 1 | Air/CO | 2.531 | -0.000 | 247749 | VV | 2.0 | | |
| 2 | Carbon Dioxi | 3.734 | 0.002 | 912067 | VB | 16.0 | | |
| 3 | Ethane | 7.389 | -0.001 | 885177 | BB | 25.0 | | |
| Total: | | | | 0.001 | 2044993 | | | |

Total Unidentified Counts : 1460463 counts
 Detected Peaks: 9 Rejected Peaks: 4 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts IBS: 1 microVolts
 Noise (used): 9 microVolts - monitored before this run
 Manual injection

Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
 Workstation : DESKTOP-6VLSB
 Instrument : Lotus NMO
 Channel : Middle = FID
 Detector Type: 4X-GC (1000 Volts)
 Bus Address : 4
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------------|--------------|
| 1 | Methane | 5.369 | 0.003 | 166804 | VV 16.7 | |
| 2 | Carbon Monox | 5.913 | 0.003 | 170386 | VB 20.5 | |
| 3 | NNNEOC | 16.988 | -0.001 | 2095518 | BB 14.7 | |
| Totals: | | | | 2432708 | | |

Total Unidentified Counts : 16538 counts
 Detected Peaks: 2 Rejected Peaks: 2 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 7 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 11 microVolts

Manual injection

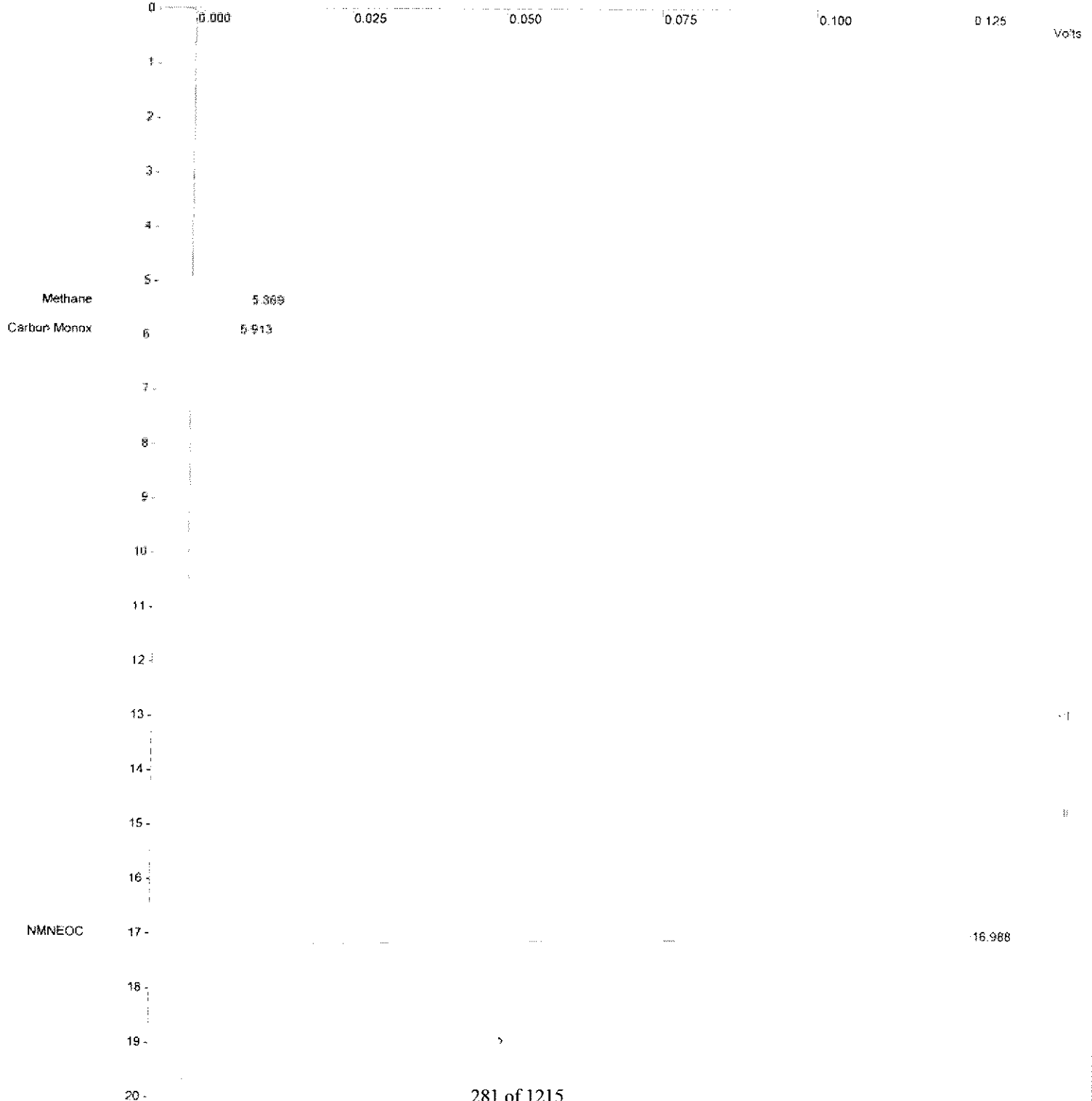
Title :
Run File : c:\brukerw\data\2020\jan_20\2020-01-22 16-01-31 100ppm mix inj 8 - master sqagmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAGMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 100ppm mix

Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglas M. Detector Type: 43X-00 (1000 Volts)
Abstraction: DESKTOP-6V166 Bus Address : 44
Instrument : Latus MMDC Sample Rate : 1.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.00 cm/min Attenuation = 1 Zero Offset = 27
Start Time = 0.000 min End Time = 20.000 min Mic / Tick = 1.00



File : c:\brukerws\data\2020\Jan_20\2020-01-23_11-13-45_1000ppm.mix inj 3 - master sqarmd 25.3 3 ml .oop 11-28-17.run
Method File : C:\brukerws\methods\master SQARMd 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
Workstation: DESKTOP-6VL5E
Instrument : Lotus NMOG
Channel : Front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** NMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ARI-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width Sep. Code (sec) | 1/2 Status Codes |
|----------|----------------|-----------------|-------------------|---------------|-----------------------|------------------|
| 1 | Air/CO | 2.532 | 0.032 | 2509161 | VV 2.0 | |
| 2 | Carbon Dioxide | 3.732 | -0.031 | 9479276 | VB 16.2 | |
| 3 | Ethane | 7.387 | -0.031 | 9020471 | BB 25.1 | |
| Totals: | | | | 5.000 | 21008908 | |

Total Unidentified Counts : 15048266 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual Injection

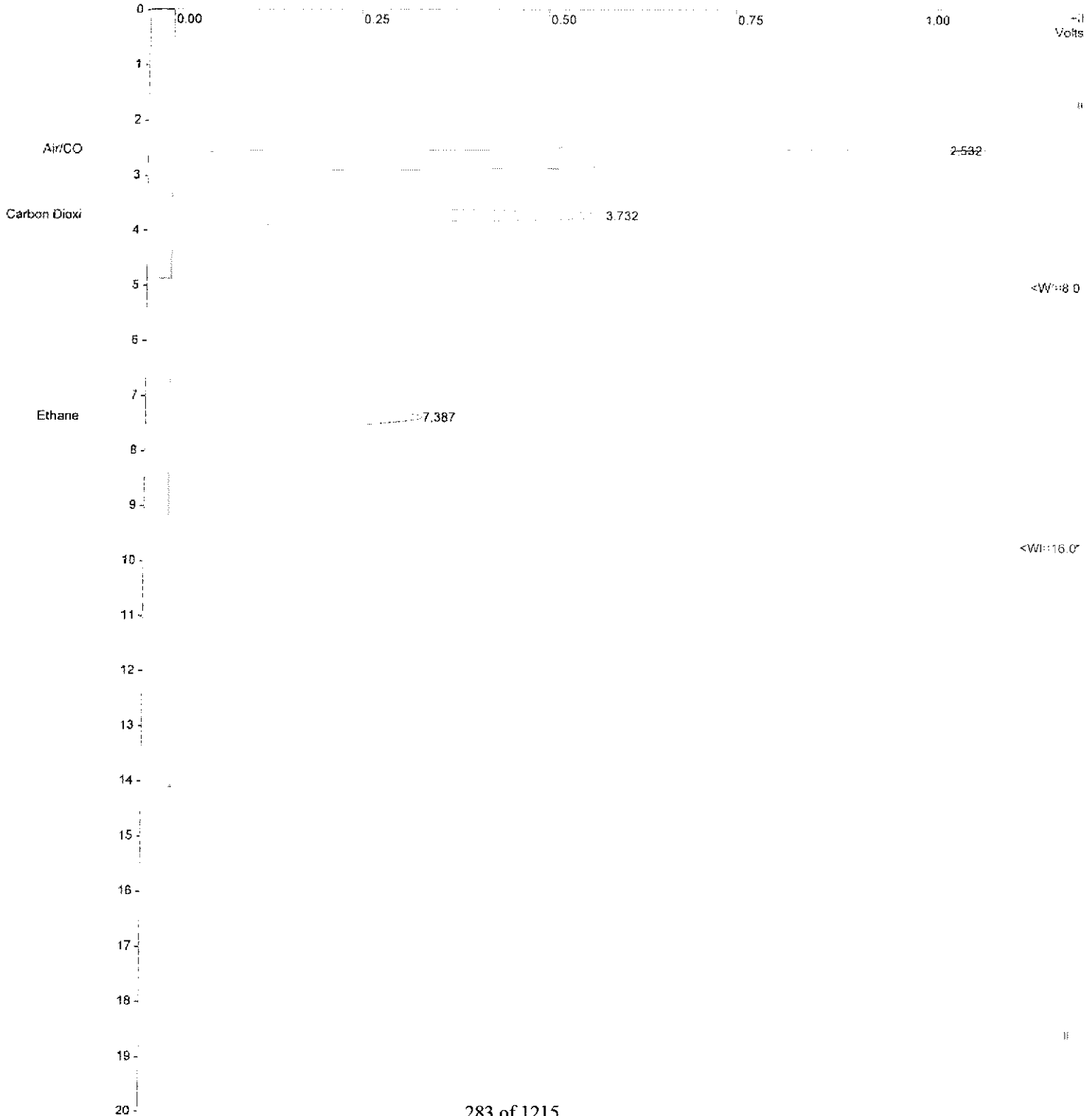
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-13-45 1000ppm mix inj 3 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front - FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIEN Version 8.0.1 ** 02057-3791-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerws\data\2020\jan_20\2020-01-23_11-13-45_1000ppm.mlx
Method File : C:\brukerws\methods\master SQACMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm.mlx

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27

Operator : Douglas W.
Workstation : DESMTP-6VLSB
Instrument : Letus NMOG
Channel : Middle = FID
Detector Type: 4X-CC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ARI-415C **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width Sep. (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|------------------|--------------|
| 1 | Methane | 5.364 | -0.004 | 1830589 | VV 16.7 | |
| 2 | Carbon Monox | 5.889 | -0.024 | 1700908 | VB 20.1 | |
| 3 | NNEOC | 16.978 | -0.010 | 2034242 | PB 14.7 | |
| Totals: | | | -0.038 | 23673960 | | |

Total Unidentified Counts : 20950 counts

Detected Peaks: 17 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 3 microVolts LSR: 1 microVolts

Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 24 microVolts
Manual injection

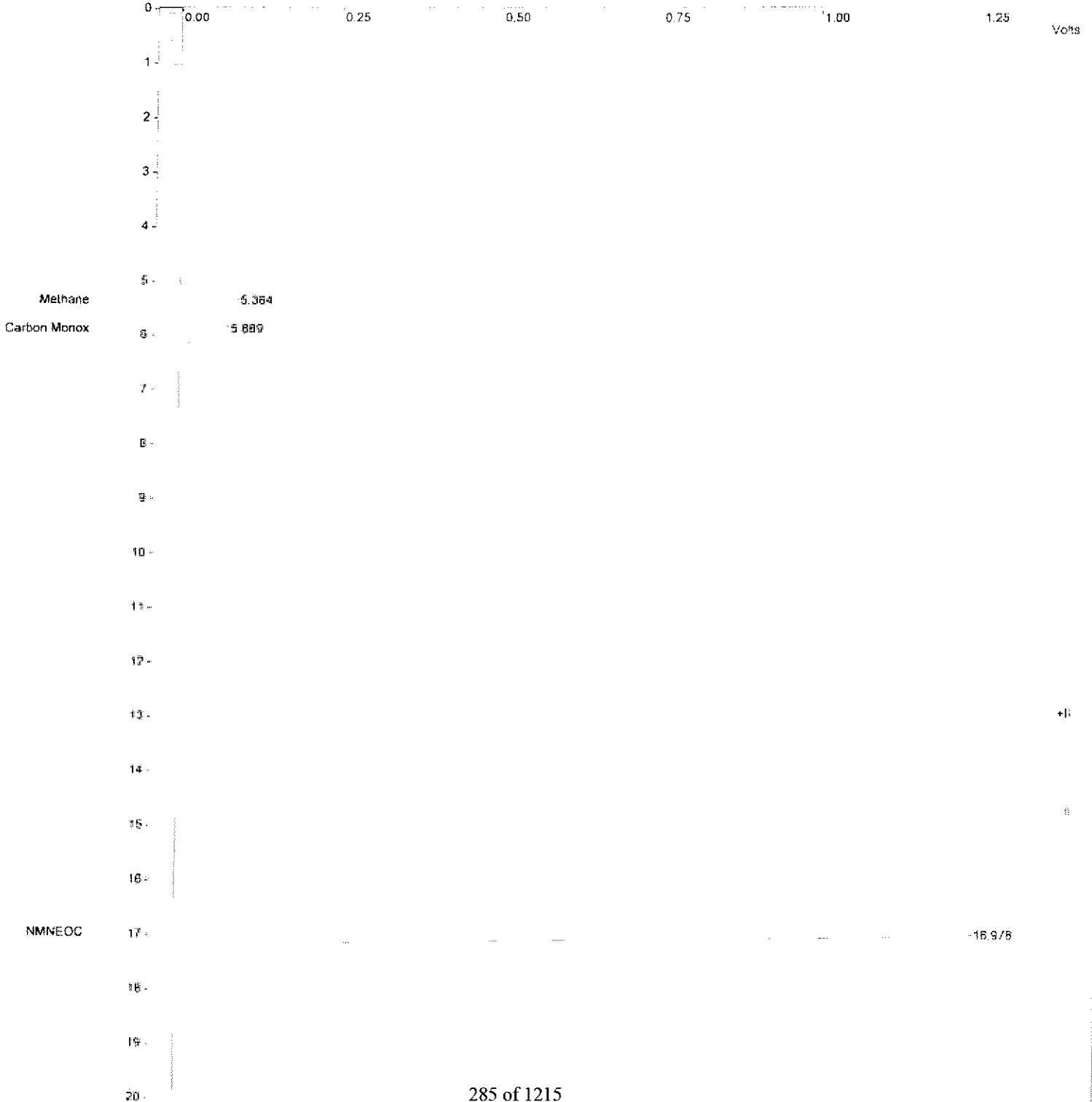
Title :
 Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-13-45 1000ppm mix inj 3 - master sqaqmd 25.3 3 ml loop 11-28-17.run
 Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
 Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VL5B Bus Address : 44
 Instrument : Lotus NMOC Sample Rate : 5.00 Hz
 Channel : Middle = FID Run Time : 20.000 min

** NSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 3%
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerws\data\2020\Jan_20\2020-01-23_11-40-06_1000ppm_max.ms
Method File : C:\brukerws\methods\Master_SQAGMD_25.3 ml Loop 01-24-20.mch
Sample ID : 1000ppm MIX

Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28

Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-EVL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (Counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 2.531 | 0.001 | 2510045 | VV | 2.0 | |
| 2 | Carbon Diox1 | 3.732 | 0.001 | 9518837 | VB | 16.2 | |
| 3 | Ethane | 7.393 | -0.002 | 9051689 | BB | 25.1 | |
| Totals: | | | | -0.002 | 21080571 | | |

Total Unidentified Counts : 16105051 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 3

Multiplic: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts monitored before this run

Manual Injection

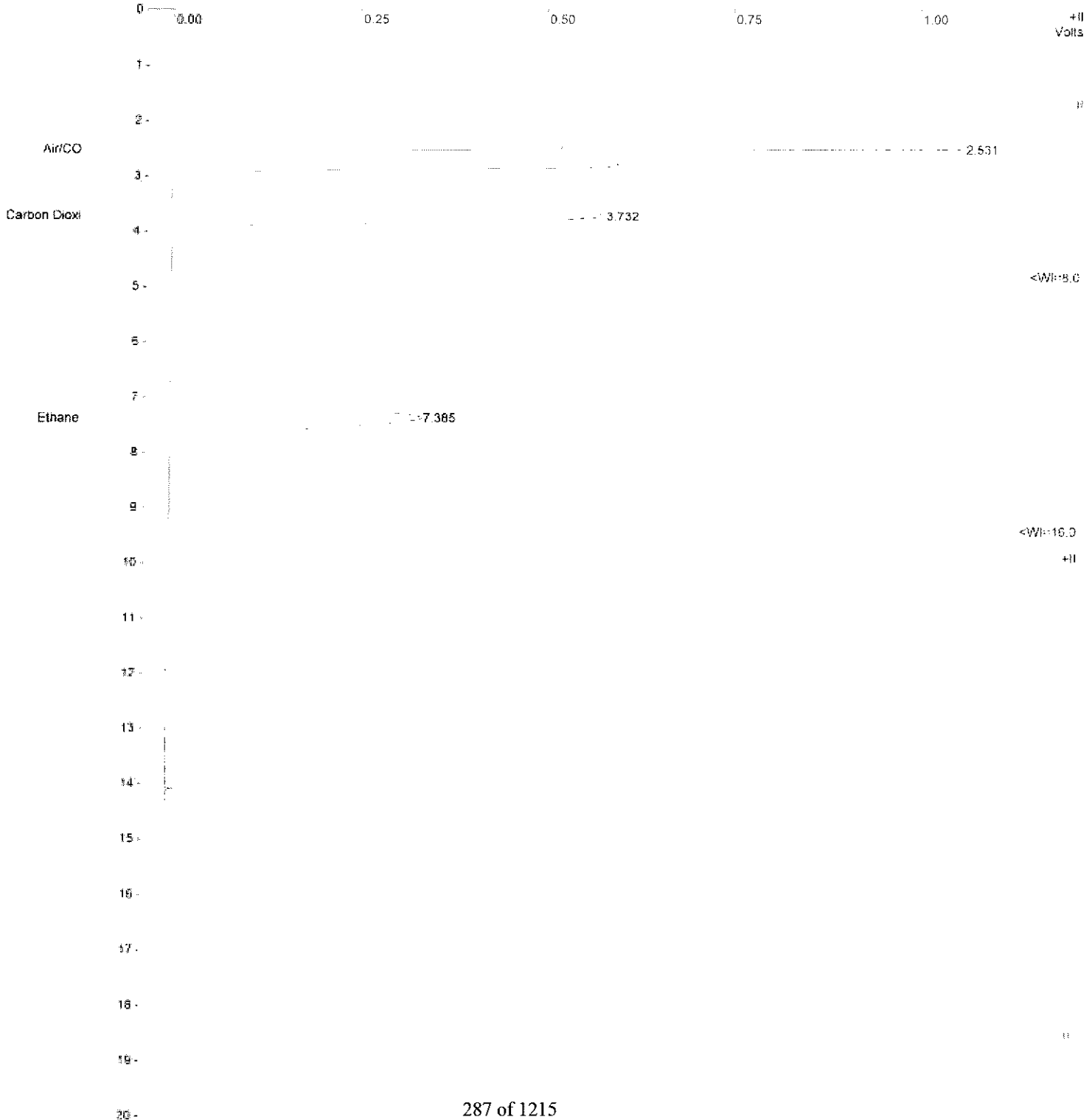
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-40-06 1000ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLS8 Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02051-3701-ARI-415C **

Chart Speed - 0.99 cm/min Attenuation = 5 Zero Offset = 21
Start Time - 0.000 min End Time = 20.000 min Min / Tick = 1.00



Run File : C:\Bruker\ms\data\2020\Jan_20\2020-01-23 11-40-06 1000ppm mix inj 1 : master sqcmd 25.3 : m. Loop 11-28-17.run
Method File : C:\Bruker\MS\Methods\Master SQCMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28

Operator : Douglas W.
Workstation: DESKTOP-6VL5B
Instrument : Lotus NIOC
Channel : Middle = FID
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 5.366 | 0.003 | 1635901 | VV | 16.7 | | |
| 2 | Carbon Monox | 5.890 | 0.002 | 1708991 | V6 | 20.1 | | |
| 3 | NMNEOC | 16.979 | 0.002 | 2039676 | PB | 14.8 | | |
| Totals: | | | | 0.007 | 23740568 | | | |

Total Unidentified Counts : 21501 counts

Detected Peaks: 17 Rejected Peaks: 0 Identified Peaks: 3

Multipplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts USB: 1 microVolts

Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 11 microVolts

Annual injection

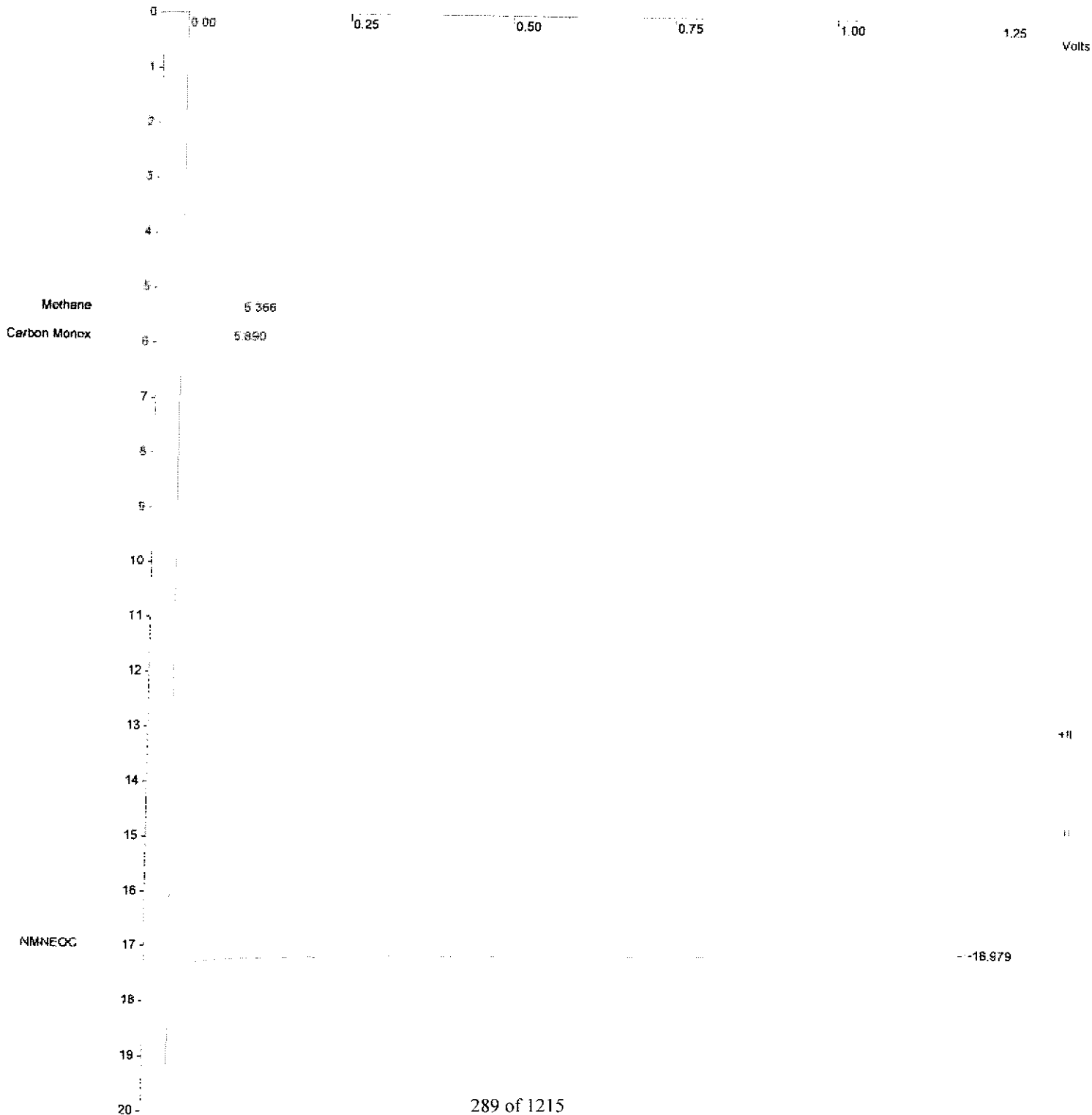
Title :
 Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-40-06 1000ppm mix inj 4 - master sqagmd 25.3 3 ml loop 11-28-17.run
 Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
 Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6V15B Bus Address : 44
 Instrument : Lotus SMOG Sample Rate : 5.00 Hz
 Channel : Middle = FID Run Time : 20.000 min

** MSKS 8.0.1 for SCIOW Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.50 cm/min Attenuation = 5 Zero Offset = 34
 Start Time = 0.000 min Run Time = 20.000 min Min / Tick = 1.00



Run File : c:\bruker\sw\data\2020\Jan_20\2020-01-23_14-45-51_2000ppm.mix
Method File : C:\bruker\sw\methods\MasterF_SQCMD_25.3_3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28
Operator : Douglass W.
Workstation: DESKTOP-6VU5B
Instrument : Lotus NMO
Channel : FRONT - FID
Detector Type: 4X-CC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 6.0.1 for SCION Version 6.0.1 ** 02057-3701-ABI-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Alz/CO | 2.531 | 0.001 | 4949177 | VV | 2.1 | |
| 2 | Carbon Dioxi | 3.727 | 0.001 | 18353302 | VB | 16.1 | |
| 3 | Ethane | 7.372 | -0.000 | 18388114 | BB | 25.2 | |
| Totals: | | | | 0.002 | 41690593 | | |

Total Unidentified Counts : 30244796 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 16 microVolts - monitored before this run

Manual injection

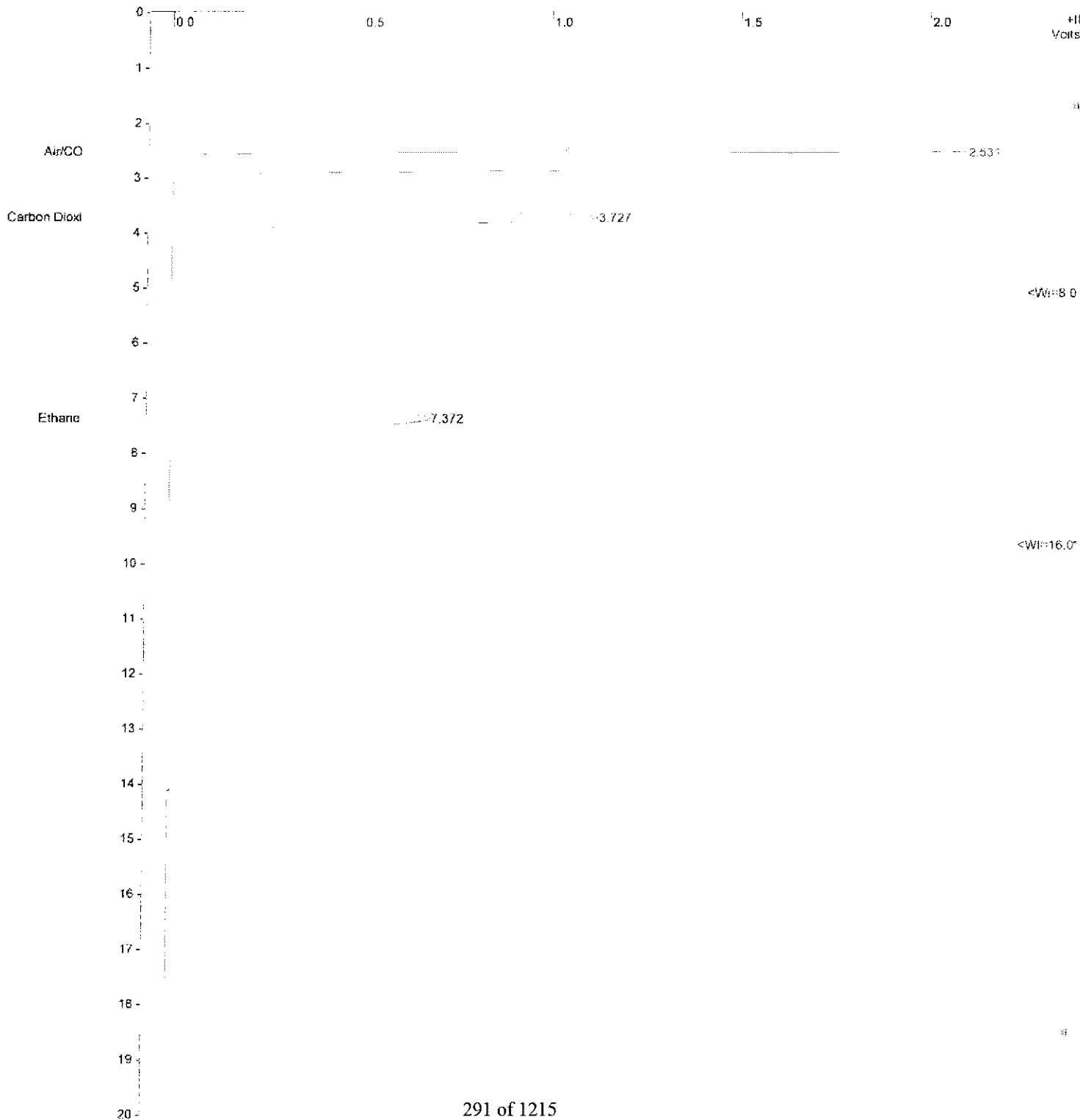
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 14-45-51 2000ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 10 Zero Offset = 25
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\ms\data\2020\Jan_20\2020-01-23_14-45-51_2000ppm_mix_inj_6 - master sqcmd 25.3 ml Loop 1.-28-17.iun
Run File : C:\bruker\ms\data\2020\Jan_20\2020-01-23_14-45-51_2000ppm_mix_inj_6 - master sqcmd 25.3 ml Loop 01-24-20.mth
Method File : C:\bruker\ms\methods\master_sqcmd 25.3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28

Operator : Douglass W.
Workstation : DESKTOP-6VL5B
Instrument : LORUS NMR
Channel : MIDDLE = FID
Detector Type: 4XX-GC (1000 Volts):
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-7791-ARI-415C **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width 1/2 | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------------|-----------|--------------|
| 1 | Methane | 5.368 | 0.001 | 3262561 | VV | 18.7 | |
| 2 | Carbon Monox | 5.827 | 0.002 | 3363251 | VB | 20.0 | |
| 3 | NMRPC | 16.651 | 0.005 | 4030296 | BH | 30.2 | |
| Totals: | | | 0.008 | 4692808 | | | |

Total Unidentified Counts : 12040 counts

Detected Peaks: 16 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 9 microVolts

Equal Injection

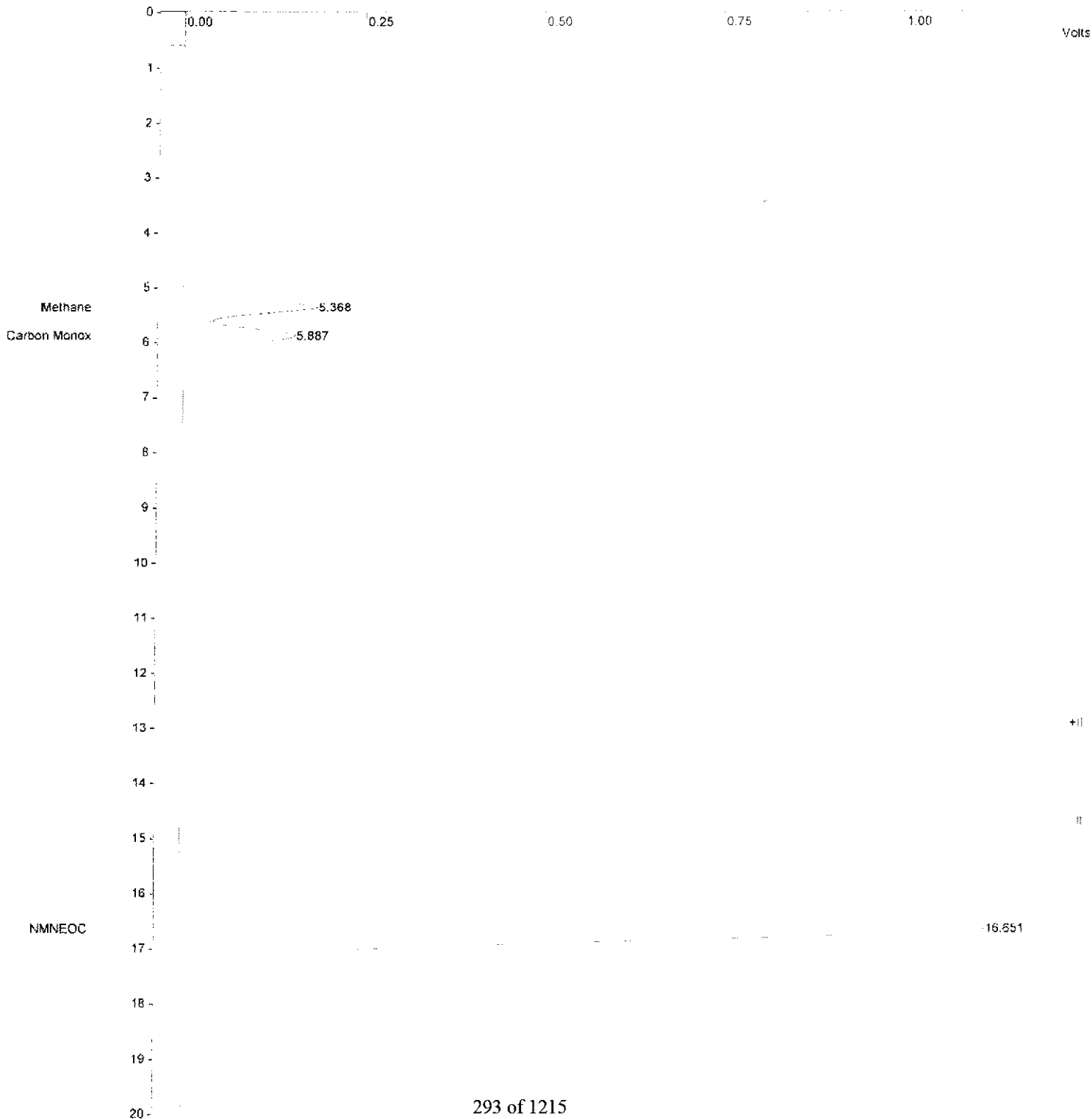
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 14:45:31 2000ppm mix in; 4 - master sqacmd 25.3 3 ml loop 11-28-17.run
Method File : C:\brukerws\methods\Master SQACMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

* MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title :
Run File : c:\brukerws\data\2020\Jan_20\2020-01-23_15-12-28_2000ppm.mlx (n) 5 - master sqagmd 25.3 ml loop 11-29-17.run
Method File : C:\brukerws\Methods\Master_SQAQMD_25.3_3 ml Loop 01-24-20.mth
Sample ID : 2000ppm.mlx

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28

Operator : Douglass W.
Workstation : DESKTOP-6VL5B
Instrument : Lotus NMG0
Channel : FID
Detector Type: 4X-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AE1-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.532 | 0.001 | 4971747 | VV | 2.1 | |
| 2 | Carbon Dioxl | 3.728 | 0.001 | 18336448 | VB | 16.1 | |
| 3 | Ethane | 7.374 | 0.002 | 18389176 | BB | 25.3 | |
| Totals: | | | | 0.004 | 41697371 | | |

Total Unidentified Counts : 30215216 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 10 microVolts - monitored before this run

Manual Injection

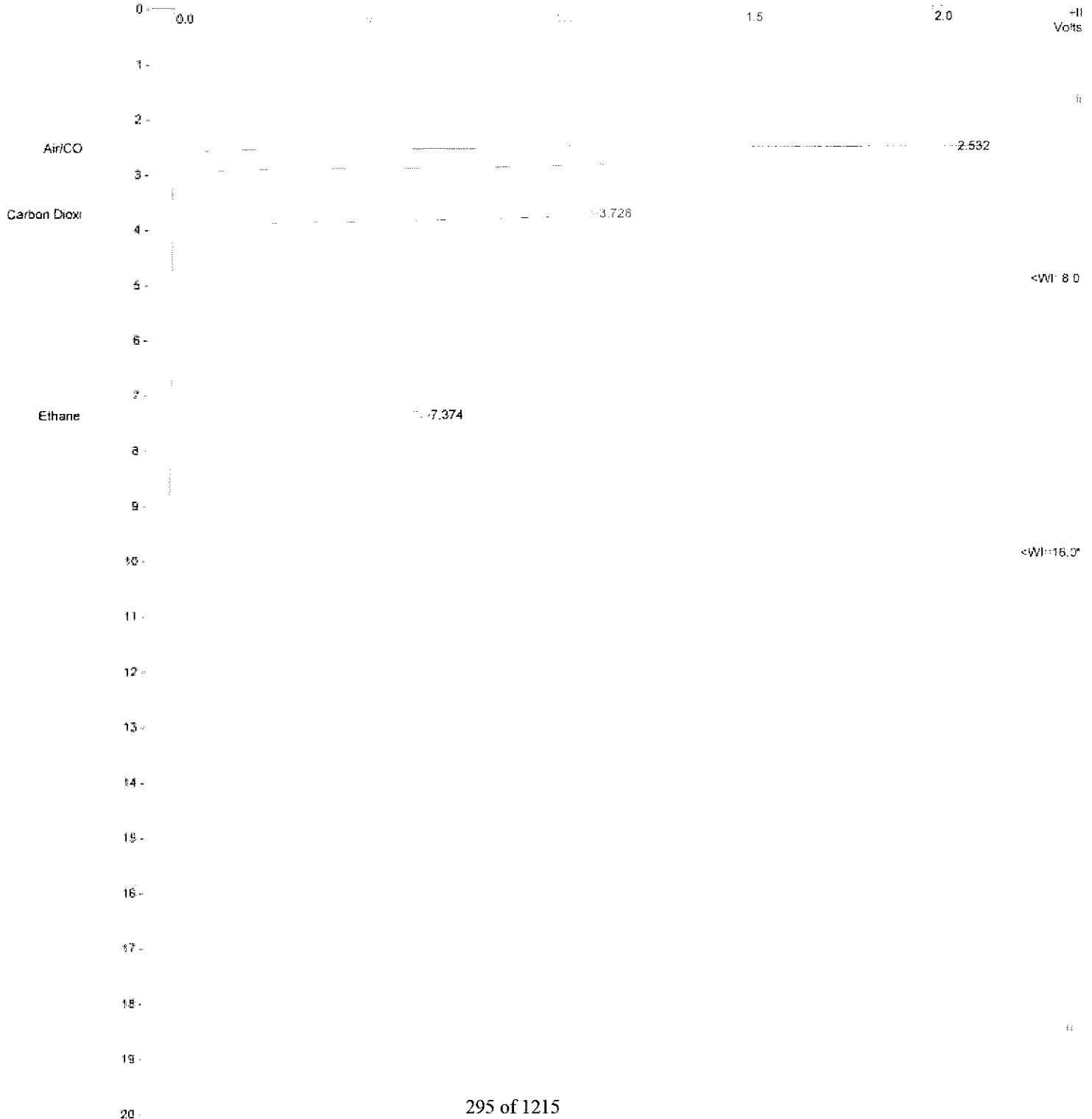
Title :
Run File : c:\brukerws\data\2020\jan 20\2020-01-23 15-12-28 2000ppm mix inj 5 - master sqagm 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAGM 25.3 3 ml Loop 01-24-20.mh
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MCS 8.0.1 for SCION Version 8.0.1 ** 02057-3731-ABI-4130 **

Chart Speed = 0.99 cm/min Attenuation = 10 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\MS\data\2020\Jan_20\2020-01-23_15-12-28_2000ppm.mxd
Run File : C:\bruker\MS\data\2020\Jan_20\2020-01-23_15-12-28_2000ppm.mxd
Method File : C:\bruker\MS\data\2020\Jan_20\2020-01-23_15-12-28_2000ppm.mxd
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28
Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6M15B Bus Address : 44
Instrument : Lotus NMOE Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02357-3701-ABI-415C **
Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.368 | -0.000 | 3261082 | BV | 18.6 | |
| 2 | Carbon Monox | 5.887 | 0.001 | 3359857 | VB | 20.0 | |
| 3 | NMNEOC | 16.659 | 0.009 | 38855688 | BB | 30.4 | |
| Totals: | | | 0.010 | 46476337 | | | |

Total Unidentified Counts : 11411 counts
 Detected Peaks: 15 Rejected Peaks: 1 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 23 microVolts
 Manual Injection

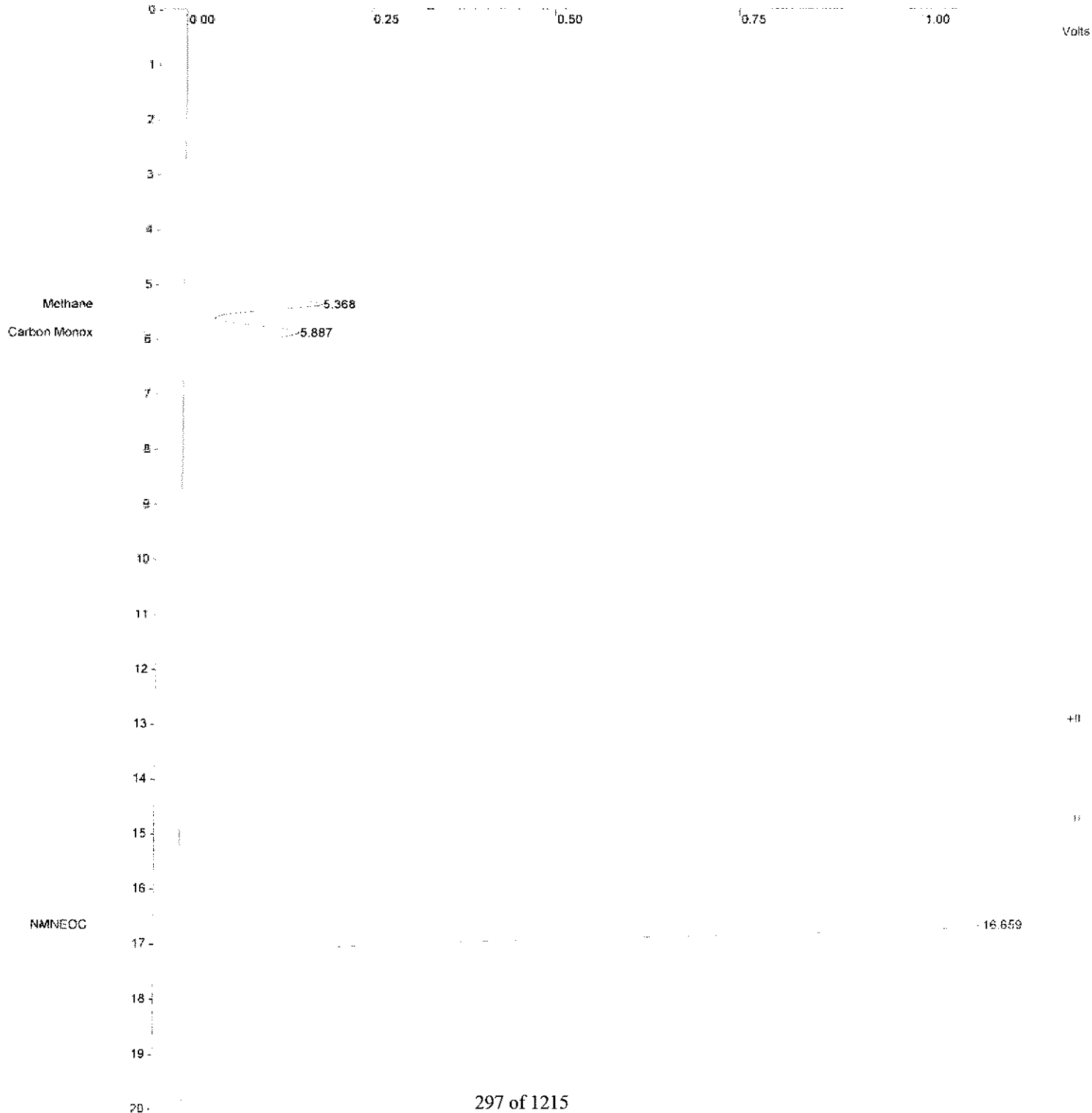
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 15-12-28 2000ppm mix inj 5 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\Bruker\MS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00





LABORATORY REPORT

Non-Methane Non-Ethane Organic compound Emissions by SCAQMD Method 25.3 (TCA/FID)

Client: AAA
 Project No.: 21-0883
 Unit Tested: Outlet
 Sampling Date: 17-Mar-21
 Analyzed Date: 30-Mar-21
 Lab No.: A 027

| Client Sample ID | Lab ID | Almega Sample ID | | Total* NMNEO ppm w/ Bias | Total* NMNEO ppm | NMNEO ppm condensable | NMNEO ppm noncondensable | CH ₄ ppm | C ₂ H ₆ ppm | CO ₂ ppm | O ₂ % v/v by TCD |
|-------------------------|---------------|------------------|------|-----------------------------------|------------------------|-----------------------------|--------------------------------|------------------------|--------------------------------------|------------------------|-----------------------------------|
| | | Tank | Trap | Outlet | | | | | | | |
| M25.3-CAU Outlet Run 1A | A 027 - 041 A | 54083 | 1 | 13.3 | 12.2 | 1.28 | 10.9 | 20.4 | ND | 579 | 20.4 |
| M25.3-CAU Outlet Run 1B | A 027 - 041 B | A111 | 2 | 13.9 | 12.8 | 2.09 | 10.7 | 20.0 | ND | 602 | 20.6 |
| M25.3-CAU Outlet Run 2A | A 027 - 051 A | 54116 | 7 | 6.40 | 5.89 | 3.44 | 2.46 | 32.1 | 26.2 | 899 | 20.2 |
| M25.3-CAU Outlet Run 2B | A 027 - 051 B | S050 | 8 | 7.12 | 6.56 | 4.56 | 2.00 | 34.3 | 28.2 | 934 | 20.2 |
| M25.3-CAU Outlet Run 3A | A 027 - 061 A | A127 | 11 | 13.3 | 12.3 | 10.4 | 1.86 | 22.6 | 27.6 | 888 | 20.5 |
| M25.3-CAU Outlet Run 3B | A 027 - 061 B | 777 | 12 | 13.3 | 12.3 | 10.5 | 1.73 | 22.8 | 27.7 | 887 | 20.3 |
| Detection Limit | | | | | | 1.0 | 0.80 | 0.80 | 0.80 | 0.80 | 0.30 |

* NOTE - the BIAS FACTOR (of 1.086) is NOT applied in these results.

ND=Not Detected

Water Blank , ppmC 0.000

TGNMNEO concentration values are reported in ppm (v/v) as Methane (carbon#=1).

The sample cylinder is analyzed for NMNEO, CO, CH₄, CO₂ and C₂H₆. It is then directed to a separation column where all heavy organics (C₃+) separate from the light organics (CO, CO₂, CH₄ and C₂H₆). The light organics are then passed through a reduction catalyst to convert CO and CO₂ to CH₄, and are then directed to a FID for detection and quantification. The heavy organics are backflushed off the holding column, passed through an oxidation catalyst, which convert all organics to CO₂, then through a reduction catalyst to convert CO₂ to CH₄ and then to a FID for detection and quantification.

Reviewed by: DW

CALCULATIONS

Client: AAA
 Project No.: 21-0883
 Unit Tested: Outlet
 Sampling Date: 17-Mar-21
 Date tested: 30-Mar-21

Lab No.: A 027

| Parameter | Symbol | Units | Run #1 A M25.3-CAU Outlet Run 1A A 027 - 041 A | Run #1 B M25.3-CAU Outlet Run 1B A 027 - 041 B |
|--|-------------------|-------------|--|--|
| Sample ID | | | | |
| Lab ID | | | | |
| <u>Sample Tank</u> | | | | |
| Tank No | | | 54083 | A111 |
| Sample Tank Volume | V _T | L | 6.000 | 6.000 |
| Barometric Pressure | P _b | mm Hg | 763 | 763 |
| Pre-test Pressure | P _{TI} | mm Hg (abs) | 2 | 2 |
| Pre-test Temperature | t _{TI} | °C | 21 | 21 |
| Abs. Pre-test Temperature | T _{TI} | °K | 294 | 294 |
| Post-test Pressure | P _{TS} | mm Hg (abs) | 596 | 644 |
| Post-test Temperature | t _{TS} | °C | 21 | 21 |
| Abs. Post-test Temperature | T _{TS} | °K | 294 | 294 |
| Final Pressure | P _{TF} | mm Hg (abs) | 944 | 940 |
| Abs.Final Temperature | T _{TF} | °K | 293 | 293 |
| Dilution Factor | DF _T | | 1.59 | 1.47 |
| Concentration Methane | C _{CH4} | ppm | 12.8 | 13.6 |
| Concentration Carbon Monoxide | C _{CO} | ppm | 13.65 | 13.98 |
| NMNEO (noncond) | C _{SA} | ppm | 6.86 | 7.30 |
| Sample Volume | V _S | L | 4.605 | 4.977 |
| Methane in Tank(C _{CH4} *DF _T) | C _{CH4T} | ppm | 20.4 | 20.0 |
| Carbon Monoxide in Tank(C _{CO} *DF _T) | C _{CO T} | ppm | 21.76 | 20.54 |
| NMNEO (noncond) | C _{SAT} | ppm | 10.94 | 10.72 |

Condensate Recovery - Trap

| Sample ID | | | M25.3-CAU Outlet Run 1A 1 A 027 - 042 A | M25.3-CAU Outlet Run 1B 2 A 027 - 042 B |
|--|------------------|------|---|---|
| Trap No | | | | |
| Lab No.: | | | | |
| Sample Impinger Volume | V _{IMP} | ml | 2.0 | 2.0 |
| Sample Volume | V _S | L | 4.605 | 4.977 |
| TC Concentration | C _{TC} | mg/L | 3.49 | 4.57 |
| IC Concentration | C _{IC} | mg/L | 2.00 | 1.93 |
| TOC Concentration | C _{TOC} | mg/L | 1.496 | 2.643 |
| NMNEO, Condensable | C _T | ppm | 1.28 | 2.09 |
| TNMNEOC (C _{sa} +C _T) | C | ppmC | <u>12.22</u> | <u>12.82</u> |

Calculations

$$V_S = k_1 * V_T * (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$k_1 = (273+15.56)/760 = 0.3799$$

$$C_{SAT} = DF * C_{SA}$$

$$C_{CH4T} = DF * C_{CH4}$$

$$DF = (P_{TF}/T_{TF}) / (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$C_T = (C_{TOC} * V_{IMP} * V_{ID}) / (V_S * A_C)$$

$$V_{ID} = 23.6902 \text{ L/mole}$$

CALCULATIONS

Client: AAA
 Project No.: 21-0883
 Unit Tested: Outlet
 Sampling Date: 18-Mar-21
 Date tested: 30-Mar-21

Lab No.: A 027

| Parameter | Symbol | Units | Run #2 A M25.3-CAU Outlet Run 2A A 027 - 051 A | Run #2 B M25.3-CAU Outlet Run 2B A 027 - 051 B |
|--|-------------------|-------------|--|--|
| Sample ID | | | | |
| Lab ID | | | | |
| <u>Sample Tank</u> | | | | |
| Tank No | | | 54116 | S050 |
| Sample Tank Volume | V _T | L | 6.000 | 6.000 |
| Barometric Pressure | P _b | mm Hg | 763 | 763 |
| Pre-test Pressure | P _{TI} | mm Hg (abs) | 2 | 2 |
| Pre-test Temperature | t _{TI} | °C | 21 | 21 |
| Abs. Pre-test Temperature | T _{TI} | °K | 294 | 294 |
| Post-test Pressure | P _{TS} | mm Hg (abs) | 574 | 618 |
| Post-test Temperature | t _{TS} | °C | 21 | 21 |
| Abs. Post-test Temperature | T _{TS} | °K | 294 | 294 |
| Final Pressure | P _{TF} | mm Hg (abs) | 932 | 946 |
| Abs. Final Temperature | T _{TF} | °K | 293 | 293 |
| Dilution Factor | DF _T | | 1.63 | 1.54 |
| Concentration Methane | C _{CH4} | ppm | 19.62 | 22.23 |
| Concentration Carbon Monoxide | C _{CO} | ppm | 21.48 | 24.28 |
| NMNEO (noncond) | C _{SA} | ppm | 1.50 | 1.30 |
| Sample Volume | V _S | L | 4.435 | 4.776 |
| Methane in Tank(C _{CH4} *DF _T) | C _{CH4T} | ppm | 32.1 | 34.3 |
| Carbon Monoxide in Tank(C _{CO} *DF _T) | C _{CO T} | ppm | 35.1 | 37.4 |
| NMNEO (noncond) | C _{SAT} | ppm | 2.46 | 2.00 |

Condensate Recovery - Trap

| Sample ID | | | M25.3-CAU Outlet Run 2A A 027 - 052 A | M25.3-CAU Outlet Run 2B A 027 - 052 B |
|--|------------------|------|--|--|
| Trap No | | | 7 | 8 |
| Lab No.: | | | | |
| Sample Impinger Volume | V _{IMP} | ml | 2.0 | 2.0 |
| Sample Volume | V _S | L | 4.435 | 4.776 |
| TC Concentration | C _{TC} | mg/L | 8.65 | 10.25 |
| IC Concentration | C _{IC} | mg/L | 4.79 | 4.73 |
| TOC Concentration | C _{TOC} | mg/L | 3.863 | 5.521 |
| NMNEO, Condensable | C _T | ppm | 3.44 | 4.56 |
| TNMNEOC (C _{sa} +C _T) | C | ppmC | <u>5.89</u> | <u>6.56</u> |

Calculations

$$V_S = k_1 * V_T * (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$k_1 = (273 + 15.56) / 760 = 0.3799$$

$$C_{SAT} = DF * C_{SA}$$

$$C_{CH4T} = DF * C_{CH4}$$

$$DF = (P_{TF}/T_{TF}) / (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$C_T = (C_{TOC} * V_{IMP} * V_{ID}) / (V_S * A_C)$$

$$V_{ID} = 23.6902 \text{ L/mole}$$

CALCULATIONS

Client: AAA
 Project No.: 21-0883
 Unit Tested: Outlet
 Sampling Date: 19-Mar-21
 Date tested: 30-Mar-21

Lab No.: A 027

| Parameter | Symbol | Units | Run #3 A M25.3-CAU Outlet Run 3A A 027 - 061 A | Run #3 B M25.3-CAU Outlet Run 3B A 027 - 061 B |
|-------------------------------|-----------|-------------|--|--|
| Sample ID | | | | |
| Lab ID | | | | |
| <u>Sample Tank</u> | | | | |
| Tank No | | | A127 | 777 |
| Sample Tank Volume | V_T | L | 6.000 | 6.000 |
| Barometric Pressure | P_b | mm Hg | 763 | 763 |
| Pre-test Pressure | P_{TI} | mm Hg (abs) | 2 | 2 |
| Pre-test Temperature | t_{TI} | °C | 21 | 21 |
| Abs. Pre-test Temperature | T_{TI} | °K | 294 | 294 |
| Post-test Pressure | P_{TS} | mm Hg (abs) | 640 | 678 |
| Post-test Temperature | t_{TS} | °C | 21 | 21 |
| Abs. Post-test Temperature | T_{TS} | °K | 294 | 294 |
| Final Pressure | P_{TF} | mm Hg (abs) | 930 | 942 |
| Abs. Final Temperature | T_{TF} | °K | 293 | 293 |
| Dilution Factor | DF_T | | 1.46 | 1.40 |
| Concentration Methane | C_{CH4} | ppm | 15.5 | 16.3 |
| Concentration Carbon Monoxide | C_{CO} | ppm | 17.9 | 18.8 |
| NMNEO (noncond) | C_{SA} | ppm | 1.27 | 1.24 |

| | | | | |
|--|------------|-----|-------|-------|
| Sample Volume | V_s | L | 4.946 | 5.241 |
| Methane in Tank($C_{CH4} * DF_T$) | C_{CH4T} | ppm | 22.6 | 22.8 |
| Carbon Monoxide in Tank($C_{CO} * DF_T$) | C_{COT} | ppm | 26.2 | 26.3 |
| NMNEO (noncond) | C_{SAT} | ppm | 1.86 | 1.73 |

Condensate Recovery - Trap

| Sample ID | | | M25.3-CAU Outlet Run 3A | M25.3-CAU Outlet Run 3B |
|----------------------------|-----------|------|-------------------------|-------------------------|
| Trap No | | | 11 | 12 |
| Lab No.: | | | A 027 - 062 A | A 027 - 062 B |
| Sample Impinger Volume | V_{IMP} | ml | 2.0 | 2.0 |
| Sample Volume | V_s | L | 4.946 | 5.241 |
| TC Concentration | C_{TC} | mg/L | 16.44 | 18.52 |
| IC Concentration | C_{IC} | mg/L | 3.40 | 4.53 |
| TOC Concentration | C_{TOC} | mg/L | 13.041 | 13.985 |
| NMNEO, Condensable | C_T | ppm | 10.40 | 10.53 |
| TNMNEOC ($C_{sa} + C_T$) | C | ppmC | <u>12.26</u> | <u>12.26</u> |

Calculations

$$V_s = k_1 * V_T * (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$k_1 = (273 + 15.56) / 760 = 0.3799$$

$$C_{SAT} = DF * C_{SA}$$

$$C_{CH4T} = DF * C_{CH4}$$

$$DF = (P_{TF}/T_{TF}) / (P_{TS}/T_{TS} - P_{TI}/T_{TI})$$

$$C_T = (C_{TOC} * V_{IMP} * V_{ID}) / (V_s * A_C)$$

$$V_{ID} = 23.6902 \text{ L/mole}$$

QA/QC SUMMARY
(Repeat Analysis)

Client Project No.: 21-0883
Sampling Date: 17-Mar-21

Lab No.: A 027
Analyzed Date: 30-Mar-21

Run #1 A

| Analyte | Sample ID | Area Count #1 | Area Count #2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
|----------------------|---------------|---------------|---------------|--------------------|---------------|----------|---------------|------------------|
| Tank Analysis | | | | | | | | |
| CO | A 027 - 041 A | 24633 | 24357 | 1.12 | 13.7 | 13.6 | 13.6 | 1.13 |
| CH4 | A 027 - 041 A | 22580 | 22599 | -0.08 | 12.8 | 12.8 | 12.8 | -0.08 |
| CO2 | A 027 - 041 A | 3511151 | 3512605 | -0.04 | 362.8 | 362.9 | 362.9 | -0.04 |
| O2* | A 027 - 041 A | 2104632 | 2116475 | -0.56 | 12.8 | 12.8 | 12.8 | -0.56 |
| C2H6 | A 027 - 041 A | ND | ND | ND | ND | ND | ND | ND |
| NMNEO | A 027 - 041 A | 134766 | 135235 | -0.35 | 6.85 | 6.87 | 6.86 | -0.35 |
| Analyte | Sample ID | Conc # 1 | Conc # 2 | Conc # 3 | Mean Conc ppm | COV 10% | | |

Trap Analysis

| | | | | | | | |
|----|---------------|-------|-------|-------|--------------|------|------|
| TC | A 027 - 042 A | 1.832 | 1.758 | 1.652 | 3.495 | 5.16 | DF=2 |
| IC | A 027 - 042 A | 1.041 | 1.026 | 0.931 | 1.999 | 4.76 | |

Run #1 B

| Analyte | Sample ID | Area Count #1 | Area Count #2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
|----------------------|---------------|---------------|---------------|--------------------|---------------|----------|---------------|------------------|
| Tank Analysis | | | | | | | | |
| CO | A 027 - 041 B | 24960 | 25236 | -1.11 | 13.9 | 14.1 | 14.0 | -1.10 |
| CH4 | A 027 - 041 B | 23992 | 24192 | -0.83 | 13.6 | 13.7 | 13.6 | -0.83 |
| CO2 | A 027 - 041 B | 3959521 | 3967414 | -0.20 | 409.1 | 409.9 | 409.5 | -0.20 |
| O2 * | A 027 - 041 B | 2325868 | 2307483 | 0.79 | 14.1 | 14.0 | 14.0 | 0.79 |
| C2H6 | A 027 - 041 B | ND | ND | ND | ND | ND | ND | ND |
| NMNEO | A 027 - 041 B | 145733 | 141620 | 2.82 | 7.40 | 7.20 | 7.30 | 2.86 |
| Analyte | Sample ID | Conc # 1 | Conc # 2 | Conc # 3 | Mean Conc ppm | COV 10% | | |

Trap Analysis

| | | | | | | | |
|----|---------------|-------|-------|-------|--------------|------|------|
| TC | A 027 - 042 B | 2.365 | 2.236 | 2.253 | 4.569 | 3.04 | DF=2 |
| IC | A 027 - 042 B | 0.953 | 0.972 | 0.965 | 1.927 | 0.78 | |

Water blank

TC 0.000
IC 0.250
TOC **0.000**

$$\begin{aligned} \text{Conc}_{\text{CO}} \text{ in tank} &= \text{MeanConc}_{\text{CO}} * \text{DF} \\ \text{Conc}_{\text{CO}_2} \text{ in tank} &= \text{MeanConc}_{\text{CO}_2} * \text{DF} \\ \text{Conc}_{\text{O}_2} \text{ in tank} &= \text{MeanConc}_{\text{O}_2} * \text{DF} \\ \text{Conc}_{\text{C}_2\text{H}_6} \text{ in tank} &= \text{MeanConc}_{\text{C}_2\text{H}_6} * \text{DF} \end{aligned}$$

* - by GC/TCD

QA/QC SUMMARY
(Repeat Analysis)

Client Project No.: 21-0883
Sampling Date: 17-Mar-21

Lab No.: A 027
Analyzed Date: 30-Mar-21

Run #2 A

| Analyte | Sample ID | Area Count #1 | Area Count #2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
|---------------|---------------|---------------|---------------|--------------------|---------------|----------|---------------|------------------|
| Tank Analysis | | | | | | | | |
| CO | A 027 - 051 A | 38432 | 38674 | -0.63 | 21.4 | 21.5 | 21.5 | -0.63 |
| CH4 | A 027 - 051 A | 34669 | 34762 | -0.27 | 19.6 | 19.7 | 19.6 | -0.27 |
| CO2 | A 027 - 051 A | 5320003 | 5321157 | -0.02 | 549.7 | 549.8 | 549.7 | -0.02 |
| O2* | A 027 - 051 A | 2035653 | 2036934 | -0.06 | 12.3 | 12.3 | 12.3 | -0.06 |
| C2H6 | A 027 - 051 A | 138684 | 138506 | 0.13 | 16.04 | 16.02 | 16.03 | 0.13 |
| NMNEO | A 027 - 051 A | 30841 | 28278 | 8.31 | 1.57 | 1.44 | 1.50 | 8.67 |
| Analyte | Sample ID | Conc # 1 | Conc # 2 | Conc # 3 | Mean Conc ppm | COV 10% | | |
| Trap Analysis | | | | | | | | |
| TC | A 027 - 052 A | 4.448 | 4.189 | 4.339 | 8.651 | 3.00 | DF=2 | |
| IC | A 027 - 052 A | 2.365 | 2.422 | 2.395 | 4.788 | 1.07 | | |
| Run #2 B | | | | | | | | |
| Analyte | Sample ID | Area Count #1 | Area Count #2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
| Tank Analysis | | | | | | | | |
| CO | A 027 - 051 B | 43730 | 43443 | 0.66 | 24.4 | 24.2 | 24.3 | 0.66 |
| CH4 | A 027 - 051 B | 39347 | 39310 | 0.09 | 22.2 | 22.2 | 22.2 | 0.09 |
| CO2 | A 027 - 051 B | 5870631 | 5862609 | 0.14 | 606.6 | 605.7 | 606.2 | 0.14 |
| O2* | A 027 - 051 B | 2172649 | 2151454 | 0.98 | 13.2 | 13.0 | 13.1 | 0.98 |
| C2H6 | A 027 - 051 B | 157868 | 158309 | -0.28 | 18.26 | 18.31 | 18.29 | -0.28 |
| NMNEO | A 027 - 051 B | 25446 | 25579 | -0.52 | 1.29 | 1.30 | 1.30 | -0.52 |
| Analyte | Sample ID | Conc # 1 | Conc # 2 | Conc # 3 | Mean Conc ppm | COV 10% | | |
| Trap Analysis | | | | | | | | |
| TC | A 027 - 052 B | 4.828 | 5.355 | 5.197 | 10.253 | 5.27 | DF=2 | |
| IC | A 027 - 052 B | 2.570 | 2.386 | 2.142 | 4.732 | 8.17 | | |

Water blank

TC 0.000
IC 0.250
TOC **0.000**

Conc_{CO} in tank = MeanConc_{CO} * DF
Conc_{CO2} in tank = MeanConc_{CO2} * DF
Conc_{O2} in tank = MeanConc_{O2} * DF
Conc_{C2H6} in tank = MeanConc_{C2H6} * DF

* - by GC/TCD

QA/QC SUMMARY
(Repeat Analysis)

Client Project No.: 21-0883
Sampling Date: 17-Mar-21

Lab No.: A 027
Analyzed Date: 30-Mar-21

Run #3 A

| Analyte | Sample ID | Area Count #1 | Area Count #2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
|---------------|---------------|---------------|---------------|--------------------|---------------|----------|---------------|------------------|
| Tank Analysis | | | | | | | | |
| CO | A 027 - 061 A | 32538 | 31867 | 2.06 | 18.1 | 17.8 | 17.9 | 2.08 |
| CH4 | A 027 - 061 A | 27420 | 27272 | 0.54 | 15.5 | 15.4 | 15.5 | 0.54 |
| CO2 | A 027 - 061 A | 5870117 | 5881364 | -0.19 | 606.5 | 607.7 | 607.1 | -0.19 |
| O2* | A 027 - 061 A | 2316088 | 2304417 | 0.50 | 14.0 | 14.0 | 14.0 | 0.51 |
| C2H6 | A 027 - 061 A | 162547 | 163365 | -0.50 | 18.80 | 18.90 | 18.85 | -0.50 |
| NMNEO | A 027 - 061 A | 24966 | 25010 | -0.18 | 1.27 | 1.27 | 1.3 | -0.18 |
| Analyte | Sample ID | Conc # 1 | Conc # 2 | Conc # 3 | Mean Conc ppm | COV 10% | | |
| Trap Analysis | | | | | | | | |
| TC | A 027 - 062 A | 8.258 | 8.187 | 8.219 | 16.443 | 0.43 | DF=2 | |
| IC | A 027 - 062 A | 1.692 | 1.702 | 1.709 | 3.402 | 0.43 | | |
| Run #3 B | | | | | | | | |
| Analyte | Sample ID | Area Count #1 | Area Count #2 | Area % diff (±20%) | Conc # 1 | Conc # 2 | Mean Conc ppm | % diff from Mean |
| Tank Analysis | | | | | | | | |
| CO | A 027 - 061 B | 33747 | 33739 | 0.02 | 18.8 | 18.8 | 18.8 | 0.02 |
| CH4 | A 027 - 061 B | 28845 | 28776 | 0.24 | 16.3 | 16.3 | 16.3 | 0.24 |
| CO2 | A 027 - 061 B | 6147246 | 6130908 | 0.27 | 635.1 | 633.5 | 634.3 | 0.27 |
| O2* | A 027 - 061 B | 2395089 | 2394189 | 0.04 | 14.5 | 14.5 | 14.5 | 0.04 |
| C2H6 | A 027 - 061 B | 171311 | 171106 | 0.12 | 19.82 | 19.79 | 19.80 | 0.12 |
| NMNEO | A 027 - 061 B | 24480 | 24231 | 1.02 | 1.24 | 1.23 | 1.24 | 1.02 |
| Analyte | Sample ID | Conc # 1 | Conc # 2 | Conc # 3 | Mean Conc ppm | COV 10% | | |
| Trap Analysis | | | | | | | | |
| TC | A 027 - 062 B | 9.257 | 9.233 | 9.285 | 18.517 | 0.28 | DF=2 | |
| IC | A 027 - 062 B | 2.241 | 2.289 | 2.268 | 4.532 | 0.74 | | |

Water blank

TC 0.000
IC 0.250
TOC **0.000**

Conc_{CO} in tank = MeanConc_{CO} * DF
Conc_{CO2} in tank = MeanConc_{CO2} * DF
Conc_{O2} in tank = MeanConc_{O2} * DF
Conc_{C2H6} in tank = MeanConc_{C2H6} * DF

* - by GC/TCD

SAMPLE INVENTORY REPORT

Method 25.3 Sampling Train

Project No.: 21-0883
Client: AAA

Lab No.: A 027
Sampling Date: 17-Mar-21

| Laboratory ID | Client ID | Component ID |
|----------------------|-------------------------|---------------------|
| Run #1 A | | |
| A 027 - 041 A | M25.3-CAU Outlet Run 1A | Tank # 54083 |
| A 027 - 042 A | M25.3-CAU Outlet Run 1A | Impinger 1 |
| Run #1 B | | |
| A 027 - 041 B | M25.3-CAU Outlet Run 1B | Tank # A111 |
| A 027 - 042 B | M25.3-CAU Outlet Run 1B | Impinger 2 |
| Run #2 A | | |
| A 027 - 051 A | M25.3-CAU Outlet Run 2A | Tank # 54116 |
| A 027 - 052 A | M25.3-CAU Outlet Run 2A | Impinger 7 |
| Run #2 B | | |
| A 027 - 051 B | M25.3-CAU Outlet Run 2B | Tank # S050 |
| A 027 - 052 B | M25.3-CAU Outlet Run 2B | Impinger 8 |
| Run #3 A | | |
| A 027 - 061 A | M25.3-CAU Outlet Run 3A | Tank # A127 |
| A 027 - 062 A | M25.3-CAU Outlet Run 3A | Impinger 11 |
| Run #3 B | | |
| A 027 - 061 B | M25.3-CAU Outlet Run 3B | Tank # 777 |
| A 027 - 062 B | M25.3-CAU Outlet Run 3B | Impinger 12 |

Lot # A027



CHAIN OF CUSTODY RECORDS

INVOICE TO:
 ALLIANCE Source Testing
 10602 Walker St.
 Cypress, CA 90630
 (714) 889-4000 Fax (714) 889-7030
 Doug.Williams@stacktest.com
 Contact:

REPORT TO:
 ALLIANCE Source Testing
 10602 Walker St.
 Cypress, CA 90630
 (714) 889-4000 Fax (714) 889-7030
 Doug.Williams@stacktest.com
 Contact:

PO # 2021-0883
Turnaround Time
 Standard: X
 Other: _____
 Rush: _____
 Depends on # of Samples
 5 - 10 days _____
 3 - 7 days _____

| Job # | Unit # | Client: | All American | Location: | Unit Information: | Sample Identification | | Type Of Sample | | ANALYSIS REQUESTED | | REMARKS | |
|------------------|-----------|---------------------------------|--------------|------------|-------------------------|---------------------------|-------------|----------------|------------------|--------------------|------------|---|-------|
| | | | | | | Sample Date | Sample Time | Lab Sample # | Project Manager: | LIQUID | GAS | | SOLID |
| 3/17 | 6:15-7:15 | M25.1 - CAU Inlet TRAP - Run 1A | Aash'N Keogh | CAU | Carbon Red Inlet/Outlet | Tank: T-17 Trap: TP110 | X | X | X | 25.1 Trk | 25.3 Trk | 25.3 Trk | |
| 3/17 | 6:15-7:15 | M25.1 - CAU Inlet TANK - Run 1B | | | | Tank: T-10 Trap: TP066 | X | X | X | A027 | -011A/012A | | |
| 3/18 | 1016-1116 | M25.1 - CAU Inlet TRAP - Run 2A | | | | Tank: T-1 Trap: 059 | X | X | X | -011B/012B | | | |
| 3/18 | 1016-1116 | M25.1 - CAU Inlet TANK - Run 2B | | | | Tank: T-7 Trap: 085 | X | X | X | 021A/022A | | Hold 2A/2B samples Low vacuum canister | |
| 3/19 | 900-1000 | M25.1 - CAU Inlet TRAP - Run 3A | | | | Tank: 1 Trap: 065 | X | X | X | -031A/032A | | | |
| 3/19 | 900-1000 | M25.1 CAU Inlet TANK - Run 3B | | | | Tank: 14 Trap: 074 | X | X | X | -031B/032B | | | |
| 3/17 | 6:15-7:15 | M25.13 CAU Outlet TRAP - Run 1A | | | | Tank: 54083 Trap: 1 | X | X | X | X | X | -041A/042A | |
| 3/17 | 6:15-7:15 | M25.13 CAU Outlet TANK - Run 1B | | | | Tank: A111 Trap: 2 | X | X | X | X | X | -041B/042B | |
| 3/18 | 1016-1116 | M25.13 CAU Outlet TRAP - Run 2A | | | | Tank: 54116 Trap: 7 | X | X | X | -051A/052A | | Hold 2A/2B samples Low vacuum canister | |
| 3/18 | 1016-1116 | M25.13 CAU Outlet TANK - Run 2B | | | | Tank: 5050 Trap: 8 | X | X | X | -051B/052B | | | |
| 3/19 | 900-1000 | M25.13 CAU outlet TRAP - Run 3A | | | | Tank: A127 Trap: 11 | X | X | X | X | X | -061A/062A | |
| 3/19 | 900-1000 | M25.13 CAU Outlet TANK - Run 3B | | | | Tank: 777 Trap: 12 | X | X | X | X | X | -061B/062B | |
| Relinquished by: | | Received by: | | Date: 3/19 | | Time: 15:00 | | Date: 3/22/21 | | Time: 8:13 | | Received by: | |



Standard Receipt
Sample LOG in Checklist

Project No: 21-0883

Method: m25.1 / n25.3

Lab ID: 1027

Sampling Date: 3/17 - 3/19

Location: AAA Int: _____

Date & Time Rcd: 3/22/21 8:31

Location: LAB Int: 20

Arrived By: (circle) FedEx UPS Drop Off (Int) 20 Other _____

Condition of Package(s): (comment): OK Package Type: Box Cooler Other: _____

Number of Sample Container(s): 12, 12 Correct Containers (per Method): Y N

Preservation: (circle) ICE ~~DryICE~~ ICEPacks None

Sample Conditions:

Sample Temp (C): 4.2

Ambient Temp (C): 21

Sample Temp (C): -9.9

Filter Condition: -

PH: _____

Components Sealed: Y N

Sample Recovery Completed On: (date & time) _____

Recovered In: (circle) Field Lab Other _____

Silica Gel Condition: _____

Tedlar Bags -

Condensation: Y N

Comments:

Container(s) Requested: Glass _____ Plastic _____

Additional Comments:

CHROMATOGRAM
TEST SAMPLES

Injection Date: 2021-03-25 11:46 Calculation Date: 2021-03-25 12:06
 Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VLSB Bus Address : 44
 Instrument : Lotus NMOC Sample Rate : 5.00 Hz
 Channel : Front - FID Run Time : 20.000 min

** MWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-418C **

Run Mode : Analysis
 Peak Measurement: Peak Area
 Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sup. Code | Width 1/2 (sec) | Status Code |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|-------------|
| 1 | Alt/CO | 0.0000 | 2.538 | 0.025 | 32056 | VV | 1.8 | |
| 2 | Carbon Dioxi | 382.0031 | 3.777 | 0.337 | 351151 | VB | 16.2 | N |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 382.0031 | | 0.362 | 3543207 | | | |

Status Codes:
 M - Missing Peak
 Total Unidentified Counts : 190734 counts
 Detected Peaks: 11 Rejected Peaks: 5 Identified Peaks: 3
 Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 6 microVolts - monitored before this run
 Manual Injection

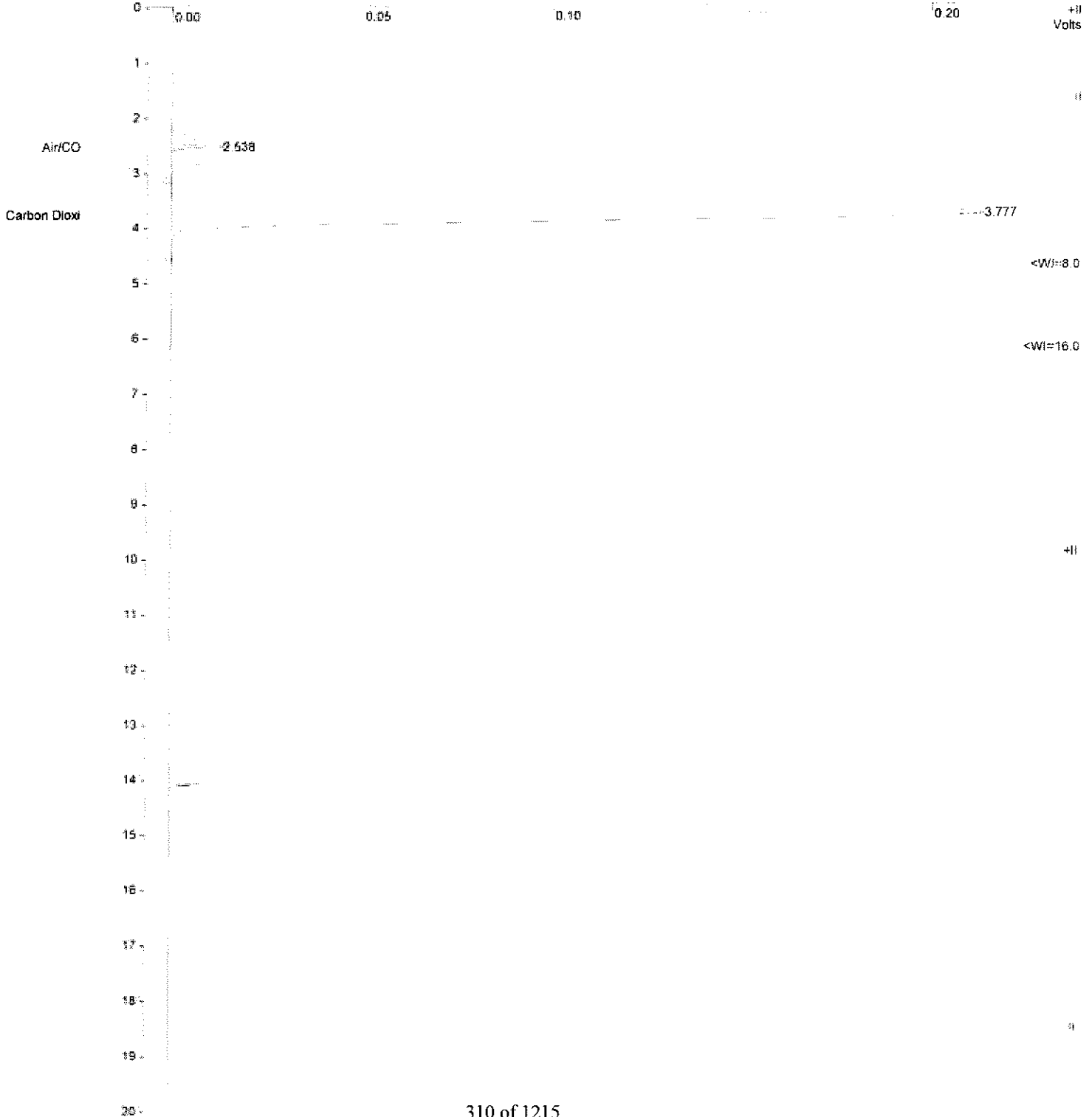
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 11-46-29 a 027 - 041 a inj 1 - master sqamr 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\Methods\Master_SQAMR 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 041 A

Injection Date: 2021-03-25 11:46 Calculation Date: 2021-03-25 12:06

Operator : Douglass W. Detector Type: 4XX-EC (1000 Volts)
Workstation: DESKTOP-6VL58 Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Front = ZTD Run Time : 20.300 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-03-25_11-46-29 a 027 - 041.d inj 1 - master sqand 25.3 ml loop 05-05-20.todranges - copy.run
Method File : 2021-03-25_11-46-29 a 027 - 041.d inj 3 - master sqand 25.3 ml loop 05-05-20.todranges - copy-middle.mth
Sample ID : A 027 - 041 A

Injection Date: 2021-03-25 11:46 Calculation Date: 2021-04-06 09:37
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15R Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

* MSWS 8.0.1 For SCIION Version 8.0.1 ** 02957-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 13.99 | 5.435 | 0.075 | 22520 | BV | 16.3 | |
| 2 | Carbon Monox | 14.24 | 6.156 | 0.291 | 24633 | VB | 20.9 | |
| 3 | NVNEOC | 6.67 | 16.202 | -3.977 | 134766 | BB | 43.2 | |
| Totals: | | 34.90 | | -3.611 | 181979 | | | |

Total Unidentified Counts : 5327 counts
 Detected Peaks: 13 Rejected Peaks: 2 Identified Peaks: 3
 Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 28 microVolts
 Manual injection

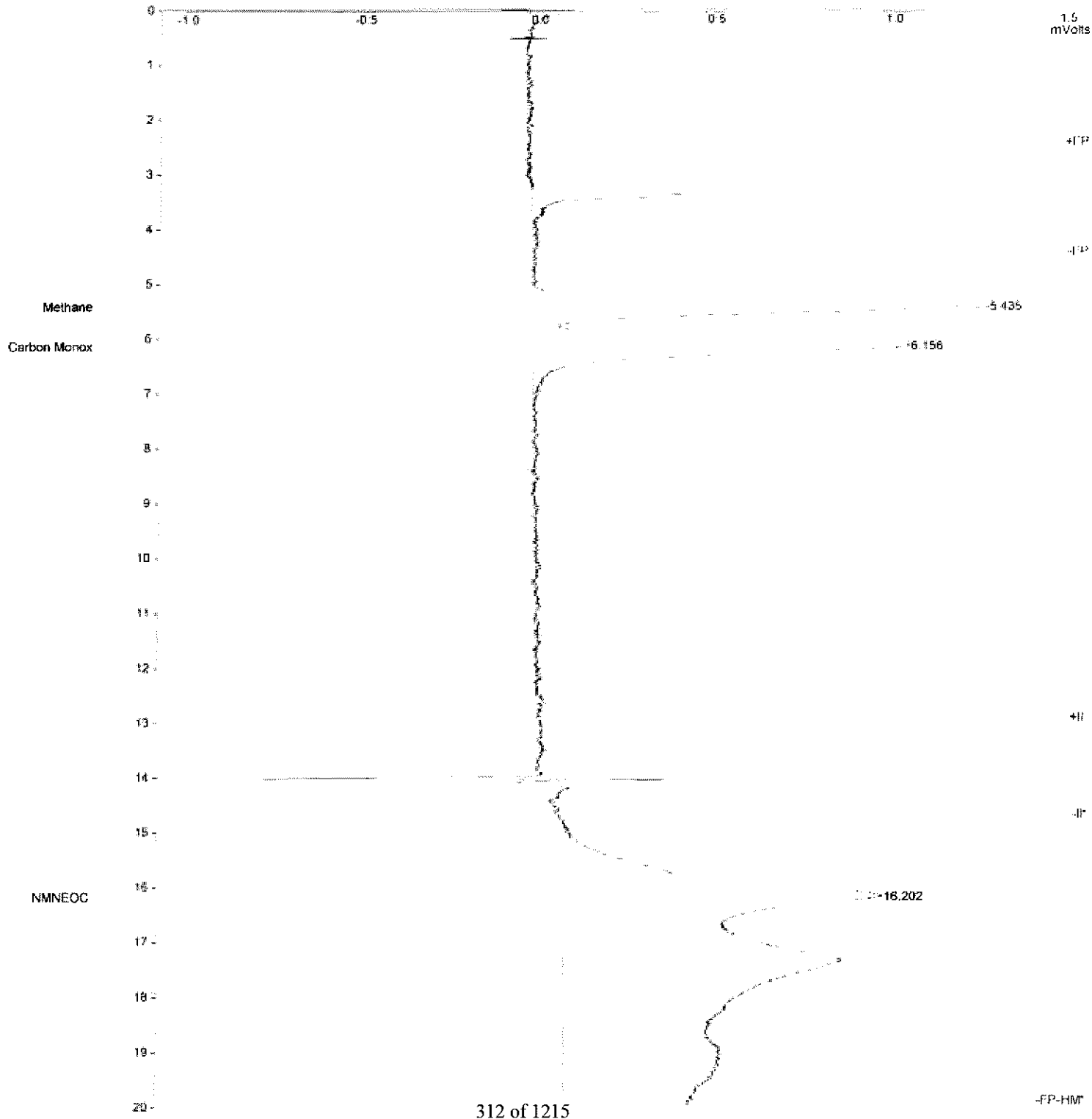
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 11-46-29 a 027 - 041 a inj 1 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 041 A

Injection Date: 2021-03-25 11:46 Calculation Date: 2021-04-06 09:37

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 32057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\201\Mar 21\2021-03-25 12-12-51 a 027 - 041 a ind 2 - master.sqaqmd 25.3 3 ml loop 05-05-20.tcdranges * copy.run
Method File : C:\bruker\methods\master.sqaqmd 25.3 3 ml loop 05-05-20.tcdranges - Copy.mth
Sample ID : A 027 - 041 A

Injection Date: 2021-03-25 12:12 Calculation Date: 2021-03-25 12:32

Operator : Douglass W.
Workstation : DESKTOP-6V158
Instrument : Lotus NMOC
Channel : Front = FID

Detector Type: 4XK-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 9.0.1 for SCIION Version 8.0.1 ** C2057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Ret. Offset (min) | Area (counts) | Std. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.538 | 0.025 | 31572 | VV | 1.0 | |
| 2 | Carbon Dioxl | 382.1614 | 3.776 | 0.336 | 3512605 | BE | 16.1 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 382.1614 | | 0.361 | 3544477 | | | |

Status Codes:
M - Missing Peak

Total Unidentified Counts : 188654 counts

Detected Peaks: 8 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual Injection

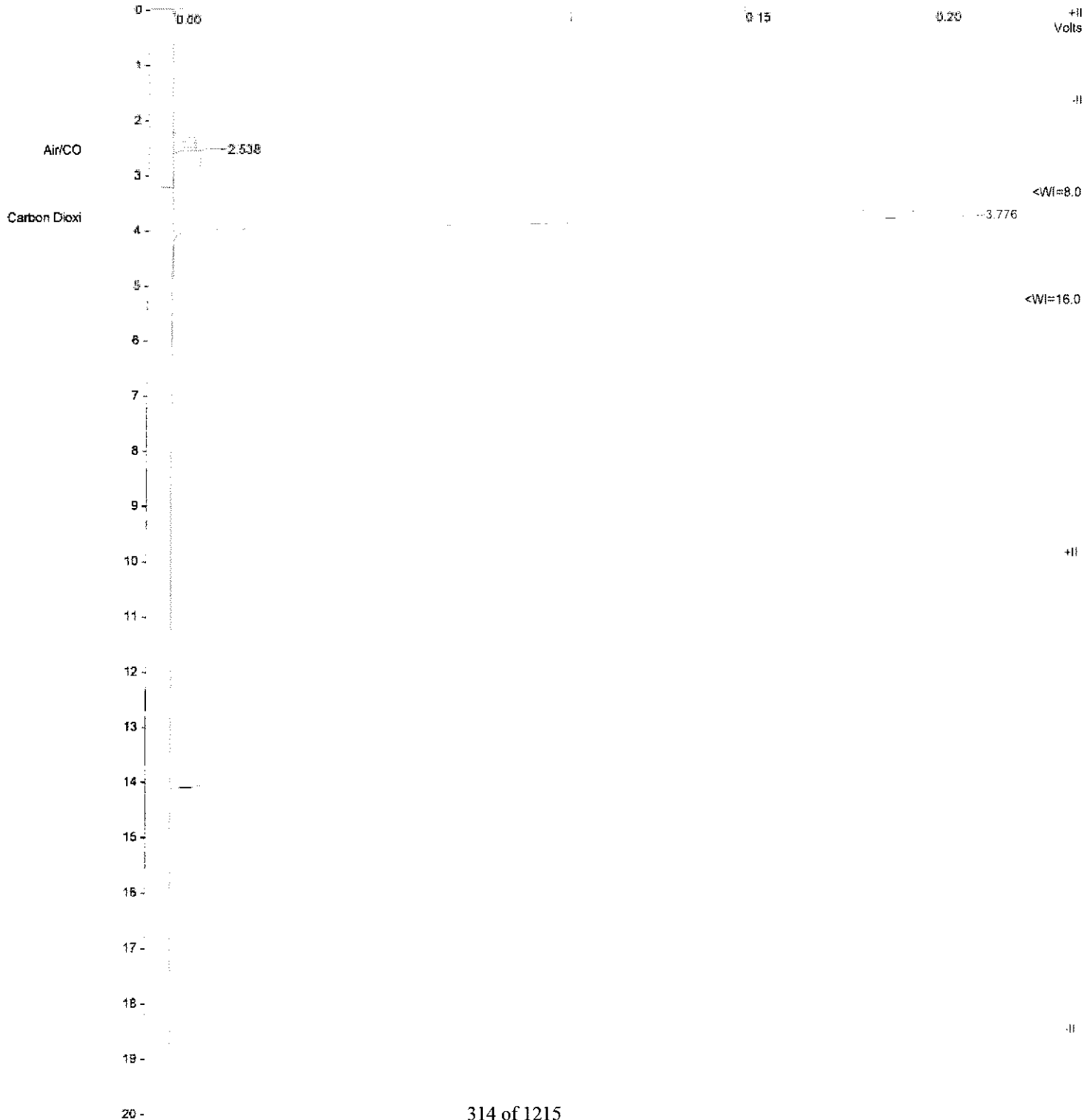
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-25 12-12-51 a 027 - 041 a inj 2 - master sqagnd 25.3 3 ml loop 05-05-20_tcrange5 - copy.run
Method File : C:\Bruker\MS\Methods\Master_SQAQND 25.3 3 ml Loop 05-05-20_TCrange5 - Copy.mch
Sample ID : A 027 - 041 A

Injection Date: 2021-03-25 12:12 Calculation Date: 2021-03-25 12:32

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLE55 Bus Address : 44
Instrument : Lotus NWOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\sv\data\2021\mar_21\2021-03-25_12-12-31_a_027 - 041_a_inj 2 - master sqsqmd 25.3 3 ml loop 95-05-20_tcdranges - copy.run
Method File : 2021-04-02_10-43-18_5 ppm.mkx inj 3 - master sqsqmd 25.3 3 ml loop 95-05-20_tcdranges - copy-middle.mkx
Sample ID : A 027 - 041 A

Injection Date: 2021-03-25 12:12 Calculation Date: 2021-04-06 09:36

Operator : Douglass W.
Workstation: DESKTOP-EVLSH
Instrument : Lotus NMOC
Channel : Middle - FID

** MWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AP1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methans | 14.01 | 5.437 | 0.077 | 22599 | EV | 16.3 | |
| 2 | Carbon Monox | 14.08 | 6.159 | 0.294 | 24357 | VB | 20.8 | |
| 3 | NMBOC | 6.69 | 16.188 | -0.991 | 135235 | BB | 41.7 | |
| Totals: | | 34.78 | | -0.620 | 162191 | | | |

Total Unidentified Counts : 4893 counts

Detected Peaks: 10 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: C

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 16 microVolts

Manual Injection

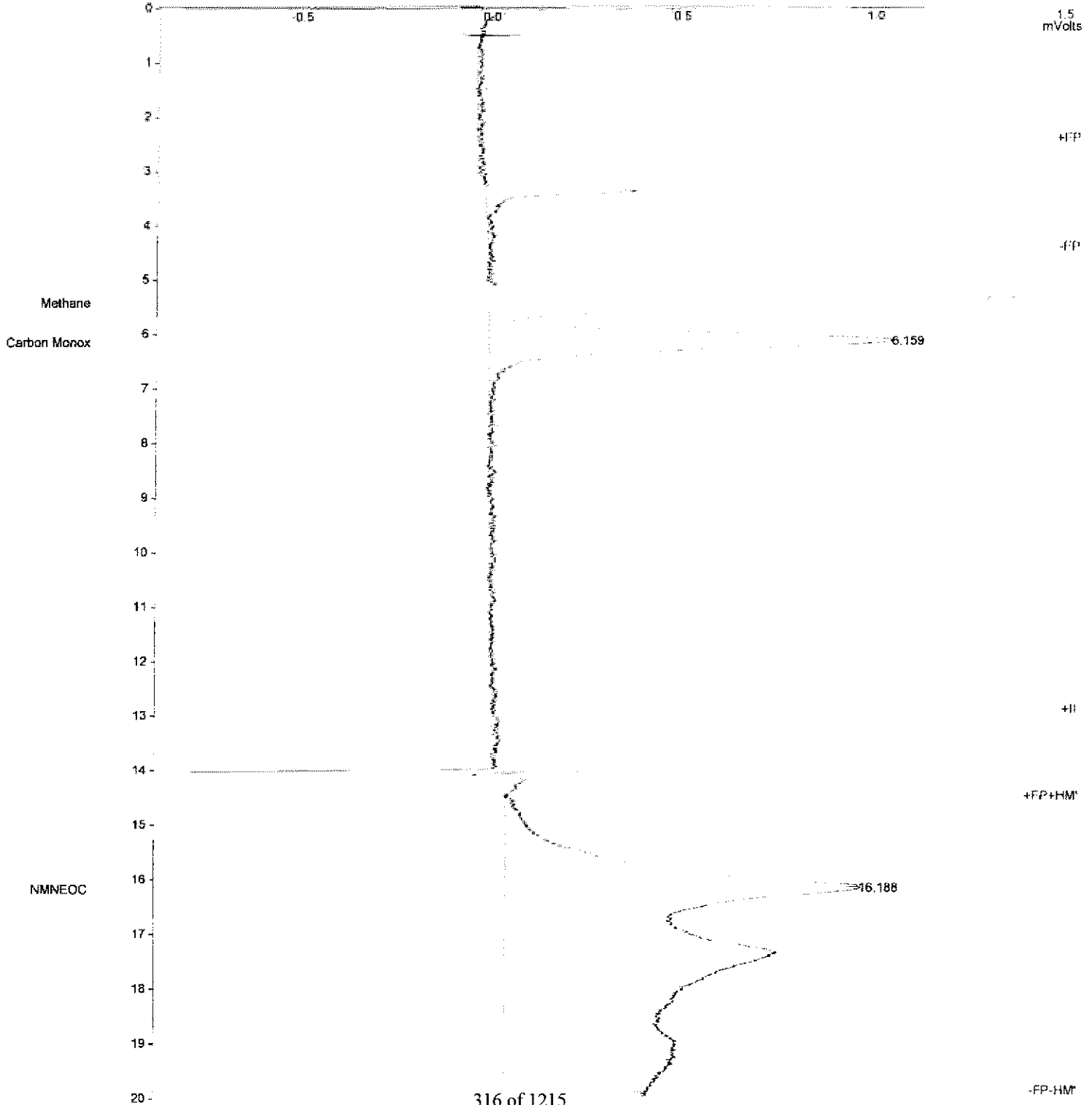
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 12-12-51 a 027 - 041 a inj 2 - master sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 041 A

Injection Date: 2021-03-25 12:12 Calculation Date: 2021-04-06 09:36

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: BESKTOP-6VL58 Bus Address : 44
Instrument : Locus NMEC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Pick = 1.00



Title : C:\bruker\msdata\2021\mar_21\2021-03-25_13-05-37_8_037 - 041_b_inj_2 - master_sqdand 25.3 3 ml loop 05-05-20_10drange5 - copy.run
Method File : C:\bruker\ms\methods\master_sqdand 25.3 3 ml Loop 05-05-20_10drange5 - copy.run
Sample ID : A 027 - 041 B

Injection Date: 2021-03-25 13:05 Calculation Date: 2021-03-25 13:25

Operator : Douglass W. Detector Type: 4XX-GC (1000 volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Locus NNOC Sample Rate : 5.00 Hz
Channel : Front - FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ARI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width 1/2 | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-----------|--------------|
| 1 | Air/CO | 0.000 | 2.539 | 0.025 | 34235 | VV | 1.8 | |
| 2 | Carbon Diox1 | 430.7890 | 3.775 | 0.335 | 3459521 | BB | 16.1 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | | | 0.360 | 3993756 | | | |

Station Codes:
M - Missing Peak

Total Unidentified Counts : 201696 counts

Detected Peaks: 9 Rejected Peaks: 4 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts USB: 1 microVolts

Noise (used): 6 microVolts - monitored before this run

Manual Injection

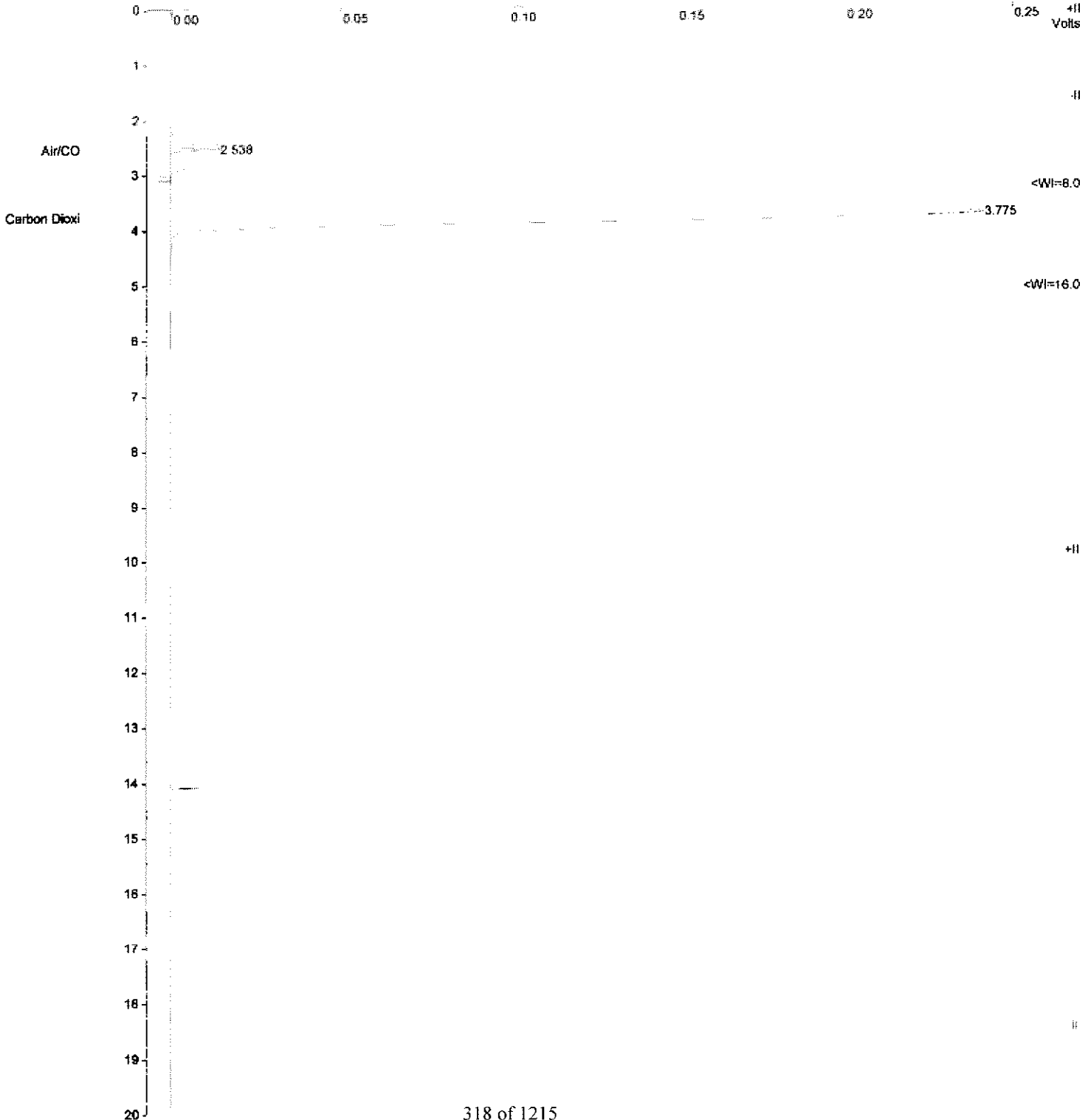
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-25 13-05-37 a 027 - 041 b inj 2 - master sqanqd 25.3 3 ml Loop 05-05-20_tcdrange5 - copy.zun
Method File : C:\bruker\ms\methods\master sqanqd 25.3 3 ml Loop 05-05-20_tcdrange5 - Copy.mth
Sample ID : A 027 - 041 B

Injection Date: 2021-03-25 13:05 Calculation Date: 2021-03-25 13:25

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: BSSK70P-6VL5B Bus Address : 44
Instrument : Lotus NMOCC Sample Rate : 5.00 Hz
Channel : Frost = FID Run Time : 20.000 min

** NWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 28
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\work\data\2021\mar_21\2021-03-25 18-05-37 a_027 - 041.b.inj 2 - master squmnd 25.3 3 ml loop 05-05-20_lcdrange5 - copy.run
Run File : c:\bruker\work\data\2021\mar_21\2021-03-25 18-05-37 a_027 - 041.b.inj 2 - master squmnd 25.3 3 ml loop 05-05-20_lcdrange5 - copy.run
Sample ID : A 027 - 041 B

Injection Date: 2021-03-25 13:05 Calculation Date: 2021-04-06 09:33
Operator : Douglass W. Detector Type: 4XX-SC (1000 Volts)
Workstation: DESKTOP-6V15H Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** C2057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 14.97 | 5.437 | 0.077 | 23992 | BV | 16.3 | |
| 2 | Carbon Monox | 14.42 | 6.159 | 0.294 | 24960 | VB | 20.9 | |
| 3 | NMNEOC | 7.21 | 16.178 | -1.001 | 145733 | BH | 37.2 | |
| Totals: | | 36.50 | | -0.630 | 194685 | | | |

Total Unidentified Counts : 4996 counts

Detected Peaks: 12 Rejected Peaks: 4 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 15 microVolts

Manual Injection

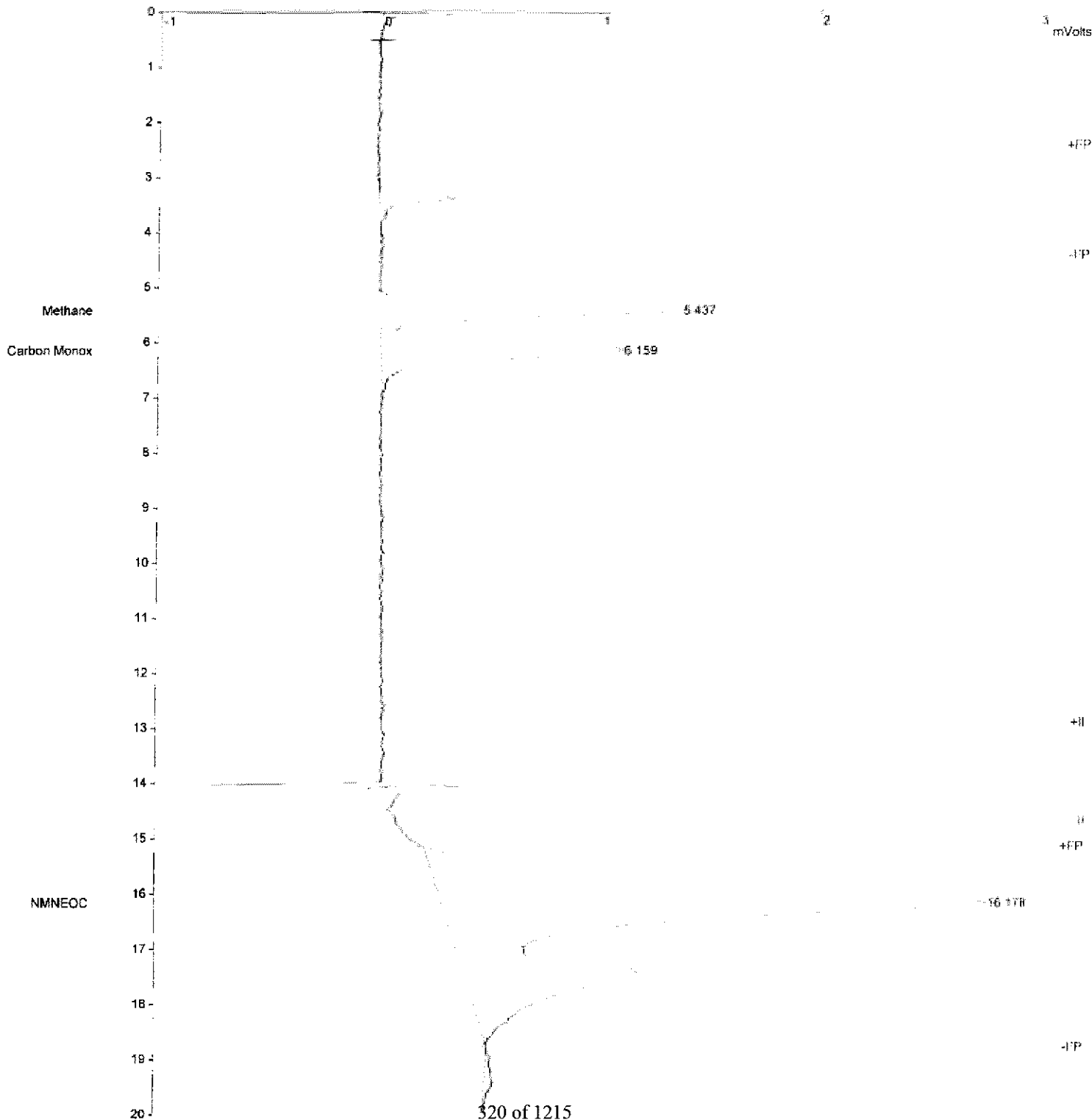
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 13-05-37 a 027 - 041 b inj 2 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 041 B

Injection Date: 2021-03-25 13:05 Calculation Date: 2021-04-06 09:33

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 3.0.1 ** 02057-37C1-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerw\data\2021\mar_21\2021-03-25 13-31-53 a 027 - 041 b in j 3 - master.sqcmd 25.3 ml loop 05-05-20_tccrange5 - copy.run
Method File : C:\brukerw\methods\master_sqcmd 25.3 b ml loop 05-05-20_tccrange5 - copy.mch
Sample ID : A 027 - 041 B

Injection Date: 2021-03-25 13:31 Calculation Date: 2021-03-25 13:51

Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Locus NMOC
Channel : Front - FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No. Peak Name Result (ppm) Ret. Time (min) Time Offset (min) Area (counts) Sep. Code Width (sec) Status Codes

| Peak No. | Peak Name | Result (ppm) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|--------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.0000 | 2.535 | 0.022 | 34225 | VV | 1.8 | |
| 2 | Carbon Diox1 | 431.6581 | 3.773 | 0.333 | 3967414 | B2 | 16.1 | M |
| 3 | Ethane | | 7.376 | | | | | |

Totals: 431.6581 0.355 4001639

Status Codes:
M - Missing Peak

Total Unidentified Counts : 201729 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual Injection

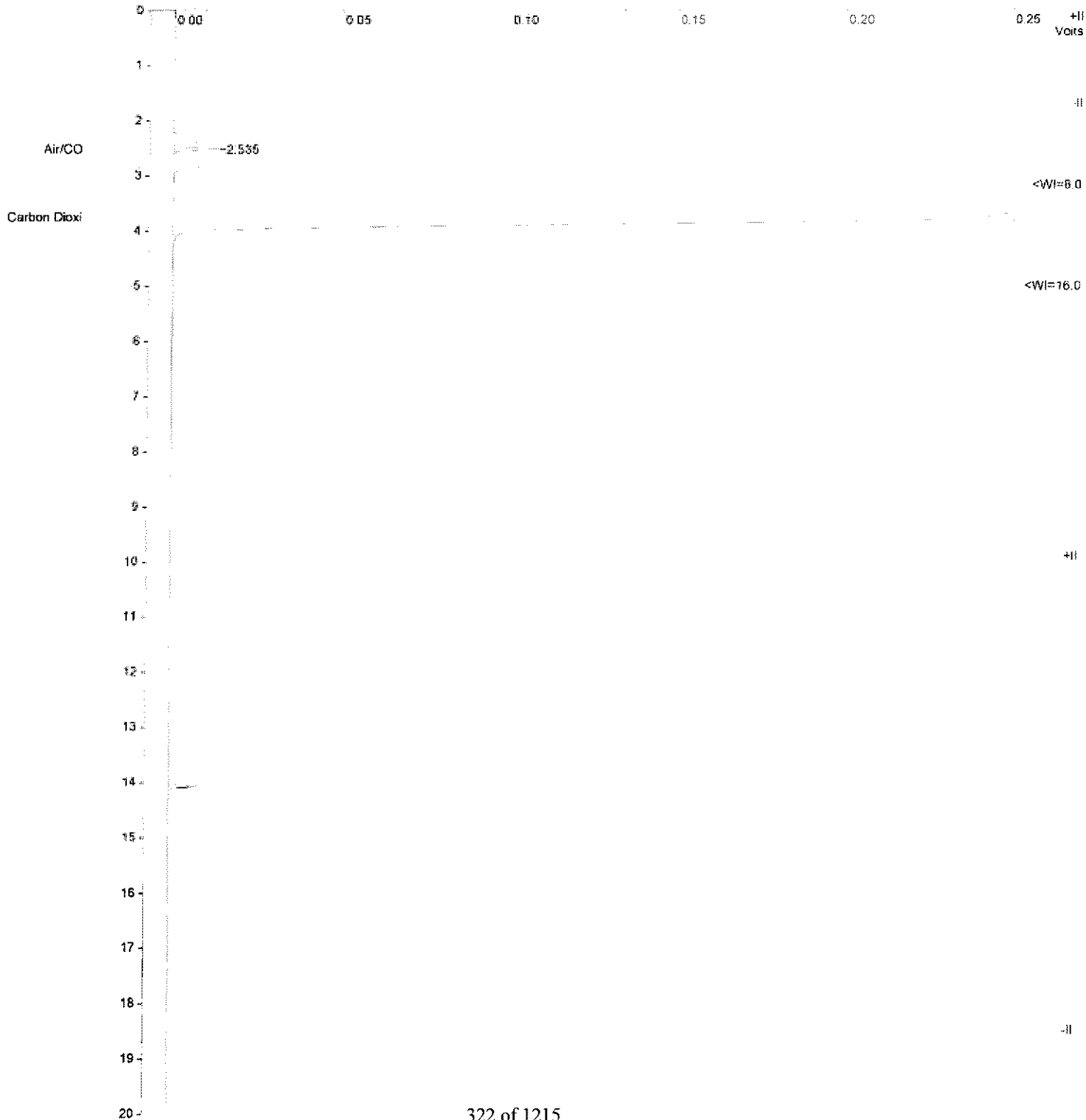
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-25 13-31-53 a 027 - 041 b inj 3 - master sqacmd 25.3 3 ml loop 05-03-20_tcdrange5 - copy.run
Method File : C:\bruker\MS\methods\Master SQACMD 25.3 3 ml Loop 05-03-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 041 B

Injection Date: 2021-03-25 13:31 Calculation Date: 2021-03-25 13:51

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus ANGC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIEN Version 8.0.1 ** 02037-3701-A81-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\work\2021\mar_21\2021-03-25_13-31-53_a_027 - 041_b.inj 3 - master sqagmd 25.3 3 ml loop 05-05-10...tcdrange5 - copy.run
Method File : 2021-04-02_10-43-18_5 ppm.inj.inj 3 - master sqagmd 25.3 3 ml loop 05-05-20...tcdrange5 - copy-middle.mh
Sample ID : A 027 - 041 B

Injection Date: 2021-03-25 13:31 Calculation Date: 2021-04-06 09:33
Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Lotus NMOC
Channel : Middle = FID

** NEWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **
Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Ret. Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 14.93 | 5.437 | 0.077 | 24192 | BV | 16.3 | |
| 2 | Carbon Monox | 14.58 | 6.158 | 0.293 | 25236 | VB | 20.8 | |
| 3 | NMNFOC | 7.01 | 16.178 | -1.001 | 141620 | BH | 37.0 | |
| Totals: | | 36.58 | -0.631 | | 191048 | | | |

Total Unidentified Counts : 5593 Counts
Detected Peaks: 9 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 6 microVolts
Manual Injection

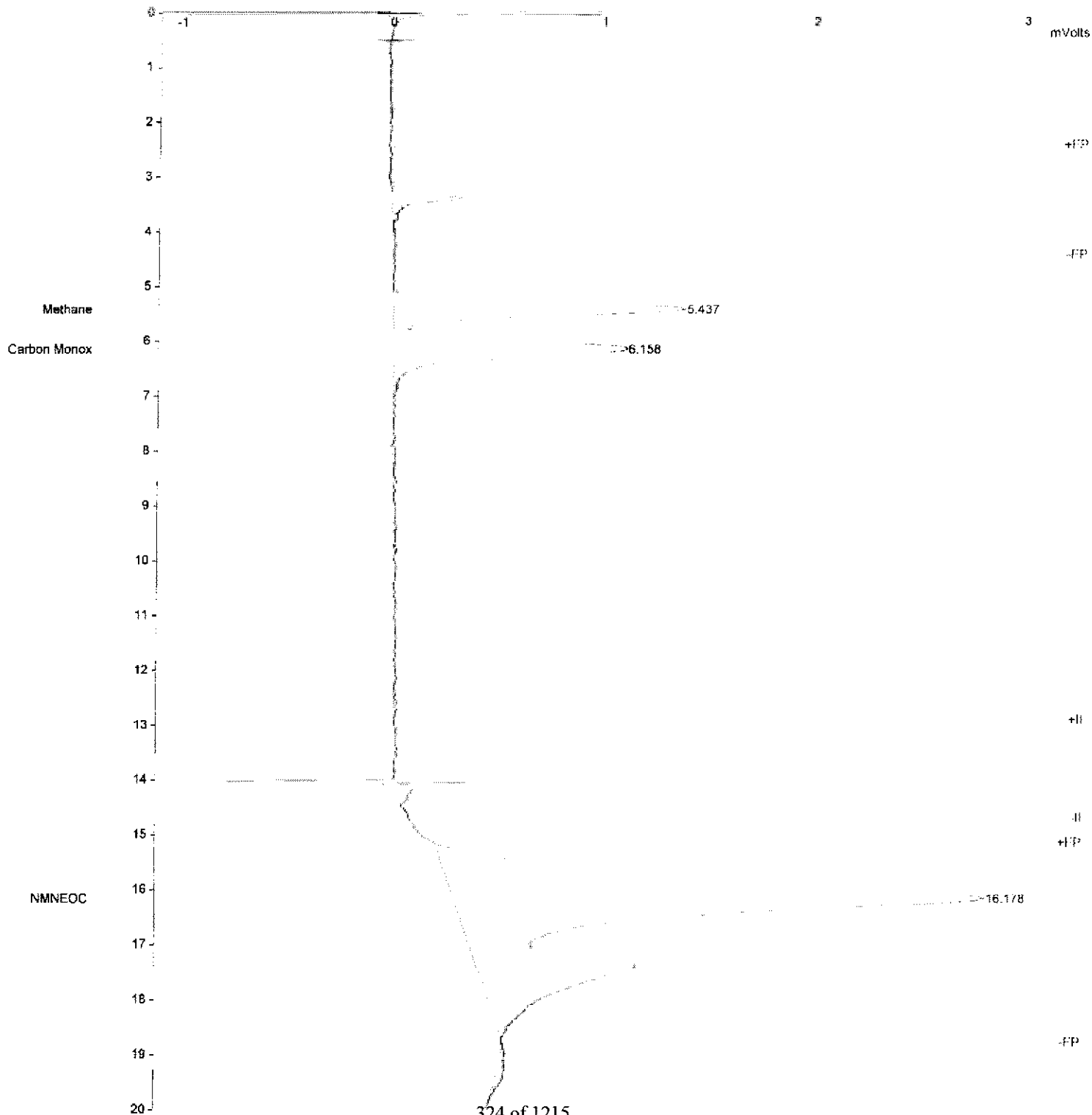
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-25 13-31-53 a 027 - 04i b inj 3 - master sqqnd 25.3 3 ml loop 05-05-20_todrange5 - copy.run
Method File : 2021-04-02 13-43-18 5 ppm mix inj 3 - master sqqnd 25.3 3 ml loop 05-05-20_todrange5 - copy-middle.mth
Sample ID : A 027 - 04i 3

Injection Date: 2021-03-25 13:31 Calculation Date: 2021-04-06 08:33

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts);
Workstation: DESKTOP-6VLE55 Bus Address : 44
Instrument : Lotus FIDOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.300 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 03
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\sw\data\2021\mar_21\2021-03-25_13-58-17_A_027 - 051_A_1inj1 - master_sqcmd 25.3 3 m. loop 05 05-20_tcdranges - copy.mn
Method File : C:\bruker\sw\methods\master_sqcmd 25.3 3 m. loop 05-05-20_tcdranges - copy.mn
Sample ID : A 027 - 051_A

Injection Date: 2021-03-25 13:58 Calculation Date: 2021-03-25 14:18

Operator : Douglass W.
Workstation: DESKTOP-6V15R
Instrument : Lotus NVOc
Channel : front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Kz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** C2057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppm) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width i/2 (sec) | Status Codes |
|----------|--------------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.536 | 0.023 | 53928 | VV | 1.8 | |
| 2 | Carbon Dioxl | 578.8799 | 3.774 | 0.334 | 532003 | BB | 16.0 | |
| 3 | Ethane | 14.6965 | 7.490 | 0.114 | 138684 | BB | 26.1 | |
| Totals: | | 593.5764 | 0.471 | | 5512615 | | | |

Total Unidentified Counts : 341462 counts

Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSH: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual injection

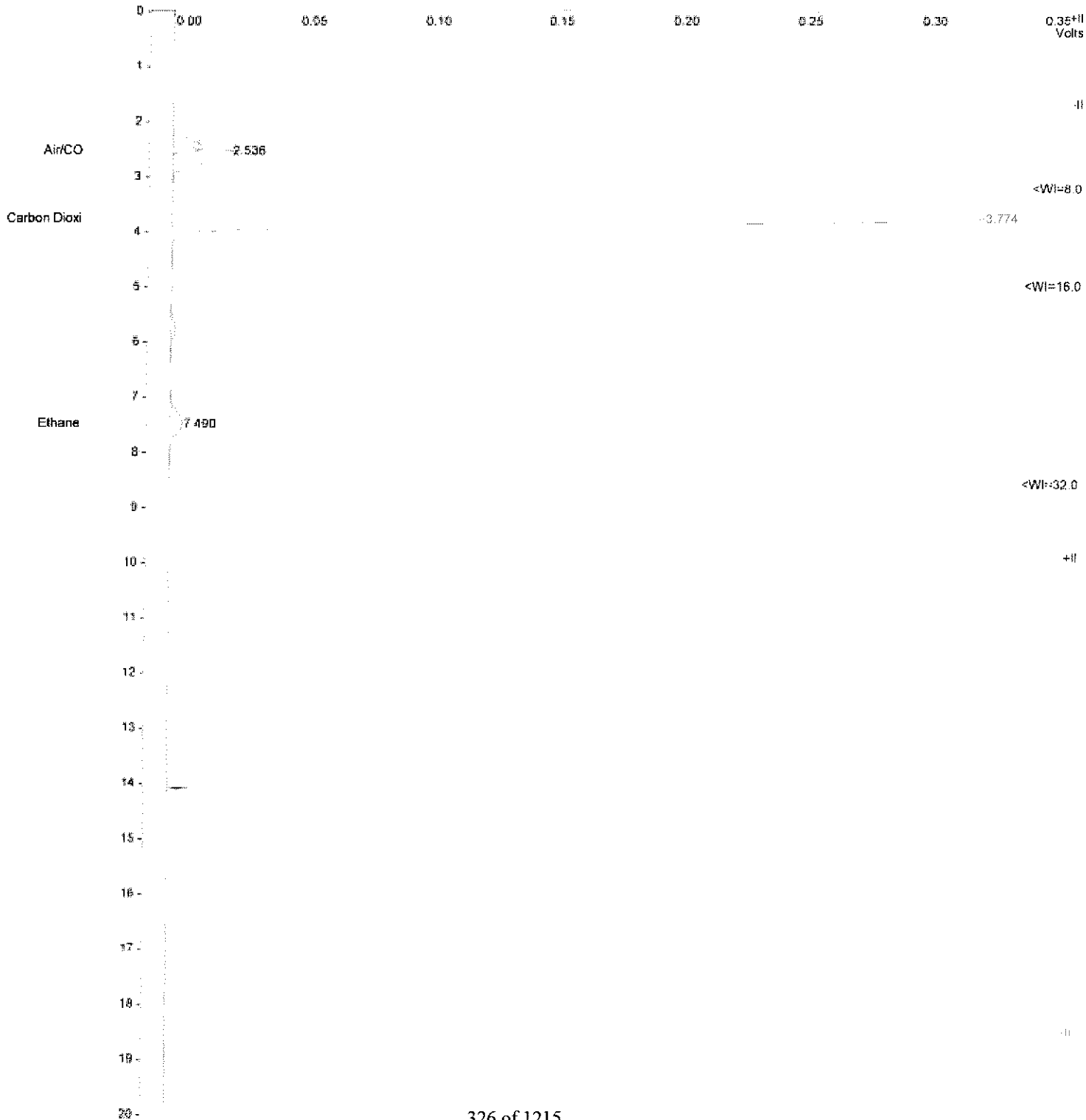
Title :
 Run File : c:\brukerws\data\2021\mar_21\2021-03-25 13-58-17 a 027 - 051 a inj 1 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.zun
 Method File : C:\Bruker\MS\methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_ICOrange5 - Copy.mch
 Sample ID : A 027 - 051 A

Injection Date: 2021-03-25 13:58 Calculation Date: 2021-03-25 14:18

Operator : Douglass W. Detector Type: AXN-GC (1000 Volts)
 Workstation: DESKTOP-6VL5B Bus Address : 44
 Instrument : Lotus ANGC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIOM Version 8.0.1 ** 02057-3701-A31-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 38
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-03-25_13-58-17.a.027 - 051.a.int.1 - master sqagmd 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Run File : 2021-04-02 10-43-18 5 ppm mix in j 3 - master sqagmd 25.3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Method File : A.027 - 051.A

Injection Date: 2021-03-25 13:58 Calculation Date: 2021-04-06 09:39

Operator : Douglass W.
Workstation: DESKTOP-6V15B
Instrument : Ictus NMO
Channel : Middle = FID

Detector Type: 4XX-GC (1000 volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width i/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 21.49 | 5.439 | 0.079 | 34669 | BV | 16.3 | |
| 2 | Carbon Monox | 22.21 | 6.159 | 0.894 | 38432 | VB | 20.7 | |
| 3 | NMPOC | 1.53 | 17.332 | 0.153 | 30841 | BB | 14.6 | |
| Totals: | | 45.23 | | 0.526 | 103942 | | | |

Total Unidentified Counts : 8998 Counts

Detected Peaks: 14 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 26 microVolts

Manual Injection

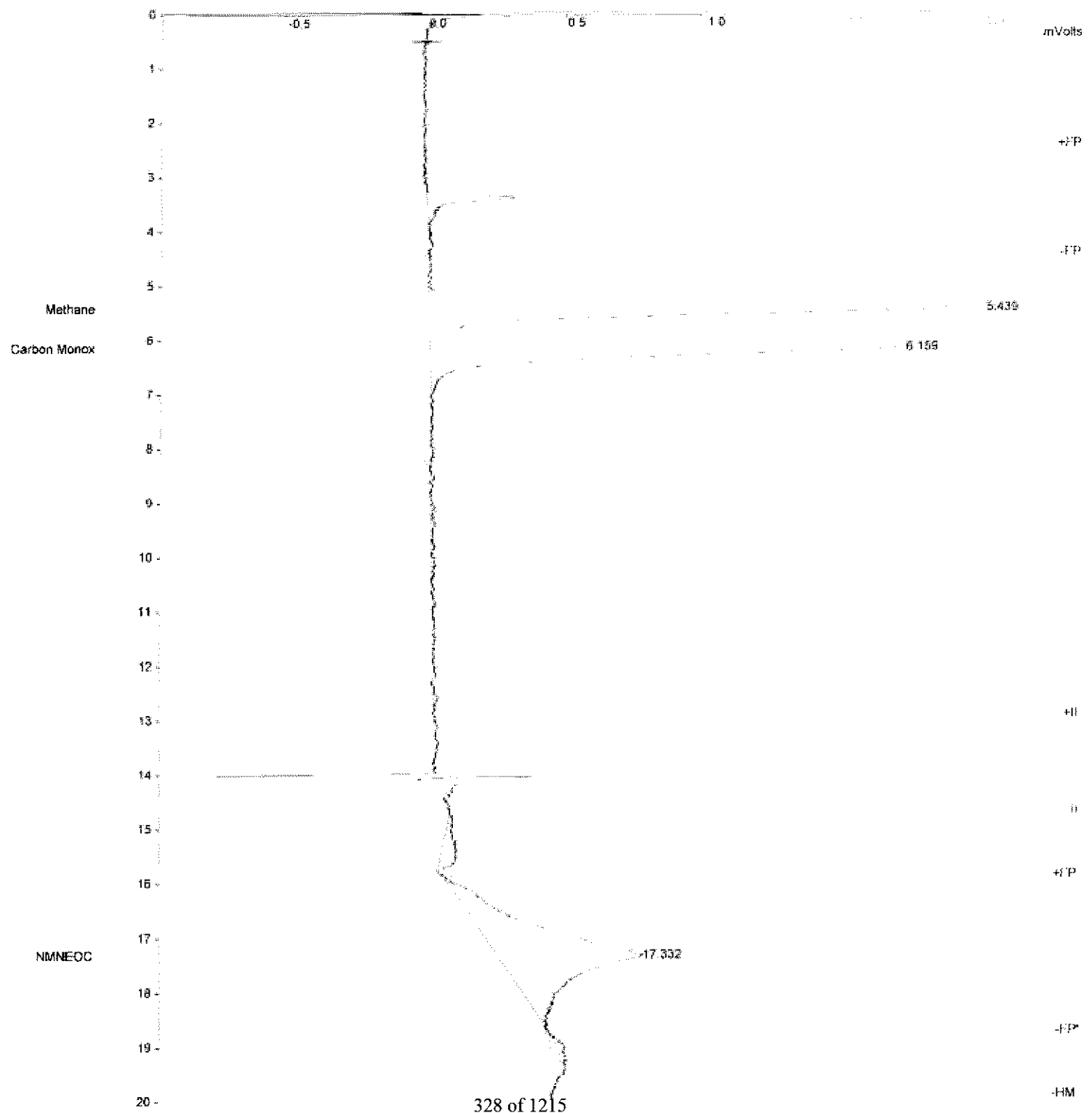
Title :
Run File : c:\bruker\ws\data\2021\mar_21\2021-03-25 13-58-17 a 027 - 051 a inj 1 - master sqaqmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqaqmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 051 A

Injection Date: 2021-03-25 13:58 Calculation Date: 2021-04-06 09:38

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus FIDC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 3.0.1 for SCION Version 8.0.1 ** 02057-3701-A81-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerw\data\2021\mar 2\2021-03-25 14-24-41 a 027 - 051 a inj 2 - master sqajmd 25.3 3 ml loop 05-05-20_tcdranges - copy.run
Method File : \\bruker\msw\methods\master_sqajmd 25.3 3 ml loop 05-05-20_tcdranges - copy.mth
Sample ID : R 027 - 051 A

Injection Date: 2021-03-25 14:24 Calculation Date: 2021-03-25 14:44
Operator : Douglass W. Detector Type: 4XX-CC (1000 Volts)
Workstation: DESKTOP-6VLS3 Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** SMS 8.0.1 for SCIION Version 8.0.1 ** 02057.3701-AP1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Std. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 0.0009 | 2.538 | 0.025 | 54194 | VV | 1.7 | |
| 2 | Carbon Diox1 | 579.0054 | 3.776 | 0.336 | 5321157 | BB | 16.0 | |
| 3 | Ethane | 14.6776 | 7.494 | 0.118 | 138506 | BB | 26.1 | |
| Totals: | | | | | | 593.6630 | 0.479 | 5513847 |

Total Unidentified Counts : 341215 counts

Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 16 microVolts - monitored before this run

Manual injection

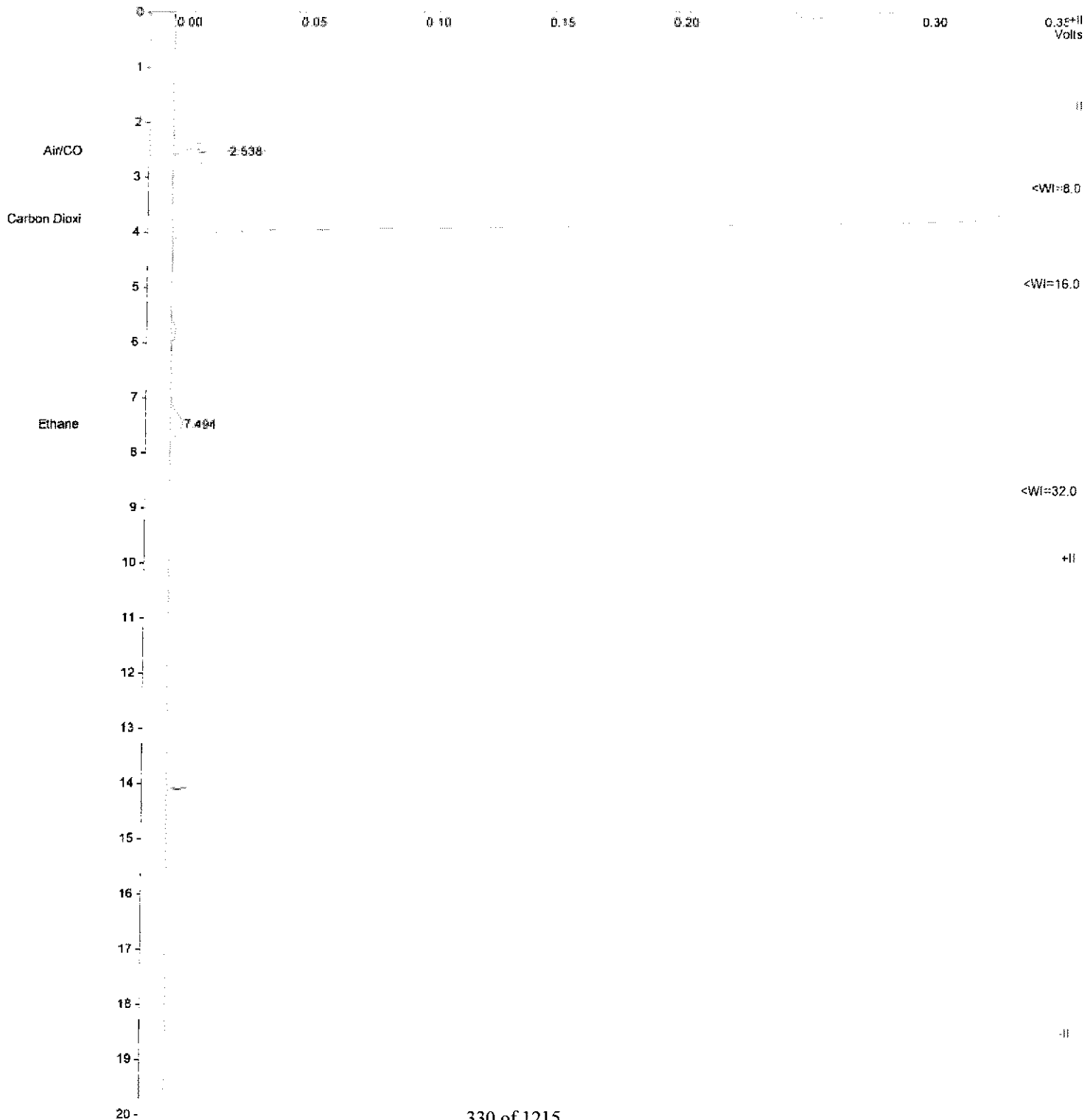
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-25 14-24-41 a 027 - 051 a inj 2 - master sqanpd 25.3 3 ml Loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\MS\methods\Master_SQA\MSD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 051 A

Injection Date: 2021-03-25 14:24 Calculation Date: 2021-03-25 14:44

Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLE53 Bus Address : 44
Instrument : Lotus KMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 38
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\msd\data\2021\mar_21\2021-03-25_14-24-41_a_027 - 051_a inj 2 - master seqmnd 25.3 ml loop 05-05-20_tcdranges - copy.run
Method File : 2021-04-02_10-43-18_6 ppm.mn inj 3 - master seqmnd 25.3 ml loop 05-05-20_tcdranges - copy-middle.mn
Sample ID : A 027 - 051 A

Injection Date: 2021-03-25 14:24 Calculation Date: 2021-04-06 09:40

Operator : Douglass W.
Workstation: DESKTOP-6VL5B
Instrument : Lotus NMOC
Channel : Middle = FID

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: PeakArea

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 21.54 | 5.440 | 0.080 | 34762 | BV | 16.4 | |
| 2 | Carbon Monox | 22.35 | 6.160 | 0.295 | 38674 | VB | 20.7 | |
| 3 | NMSEOC | 1.40 | 17.368 | 0.189 | 28278 | BR | 112.4 | |
| Totals: | | 45.29 | | 0.564 | 101714 | | | |

Total Unidentified Counts : 9887 Counts

Detected Peaks: 13 Rejected Peaks: 1 Unidentified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 59 microVolts

Manual Injection

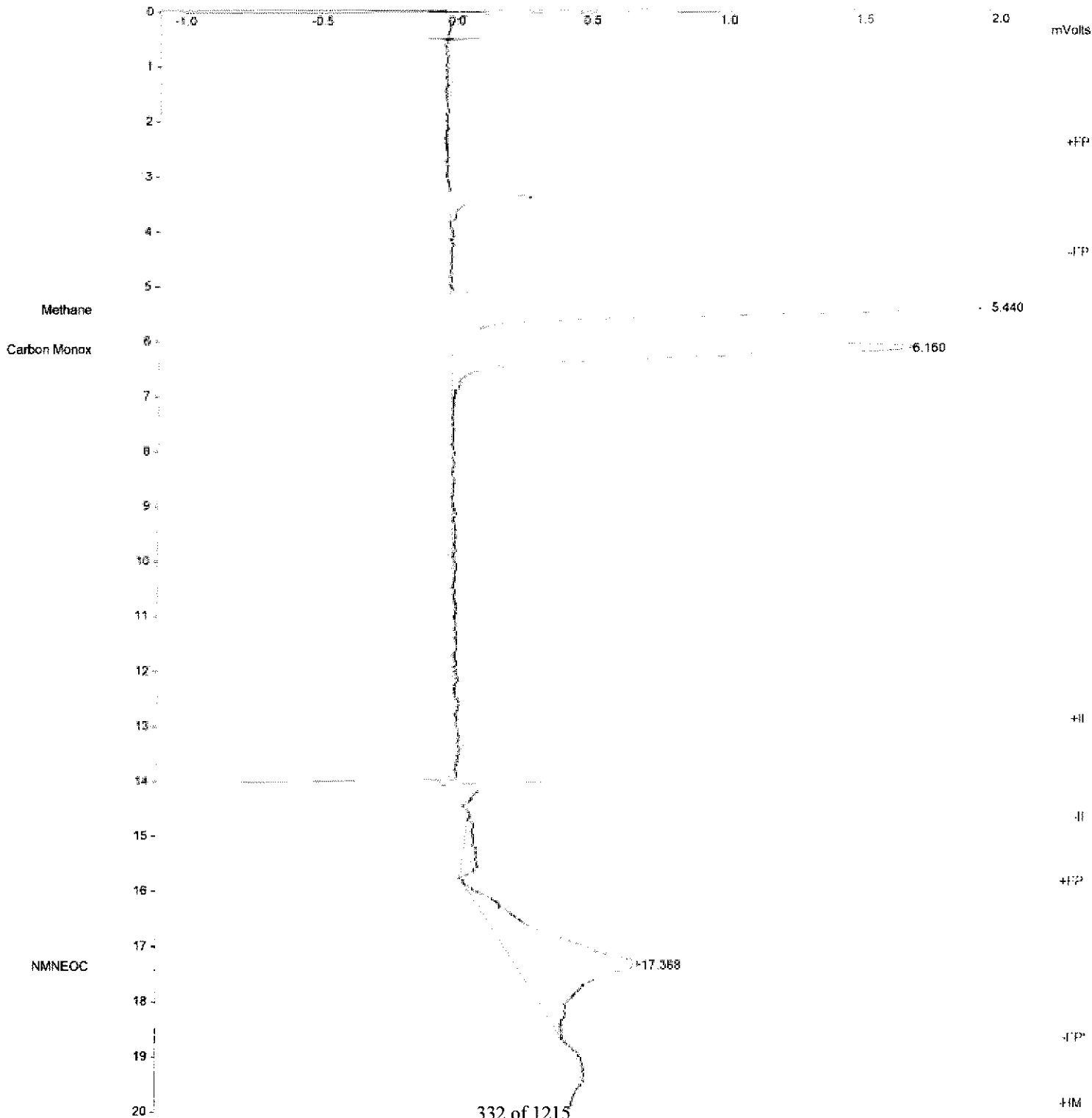
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 14-24-41 a 027 - 051 a inj 2 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mch
Sample ID : A 027 - 051 A

Injection Date: 2021-03-25 14:24 Calculation Date: 2021-04-06 09:40

Operator : Douglass W. Detector Type: 4XX-GC (1030 Volts)
Workstation: DESKTOP-6VL58 Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.C.1 for SCIEN Version 8.0.1 ** 02057-3701-ABL-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerw\data\2021\mar 21\2021-03-25 14-51-01 a 027 - 051 b inj 1 - master sqagmd 25.3 ml loop 05-05-20_tdranges - copy.run
Method File : c:\brukerw\methods\master\SQAQMD 25.3 ml Loop 05-05-20_tdranges - Copy.mth
Sample ID : A 027 - 051 B

Injection Date: 2021-03-25 14:51 Calculation Date: 2021-03-25 15:11
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15H Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Std. Dev. (sec) | Width (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-------------|--------------|
| 1 | Air/CO | 0.000 | 2.540 | 0.027 | 61441 | VV | 1.8 | |
| 2 | Carbon Dioxi | 638.6213 | 3.776 | 0.338 | 5970631 | BB | 16.1 | |
| 3 | Ethane | 16.7306 | 7.496 | 0.120 | 157868 | BB | 26.0 | |
| Totals: | | 655.5521 | 0.495 | | 6089990 | | | |

Total Unidentified Counts : 389083 counts

Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 9 microVolts - monitored before this run

Manual Injection

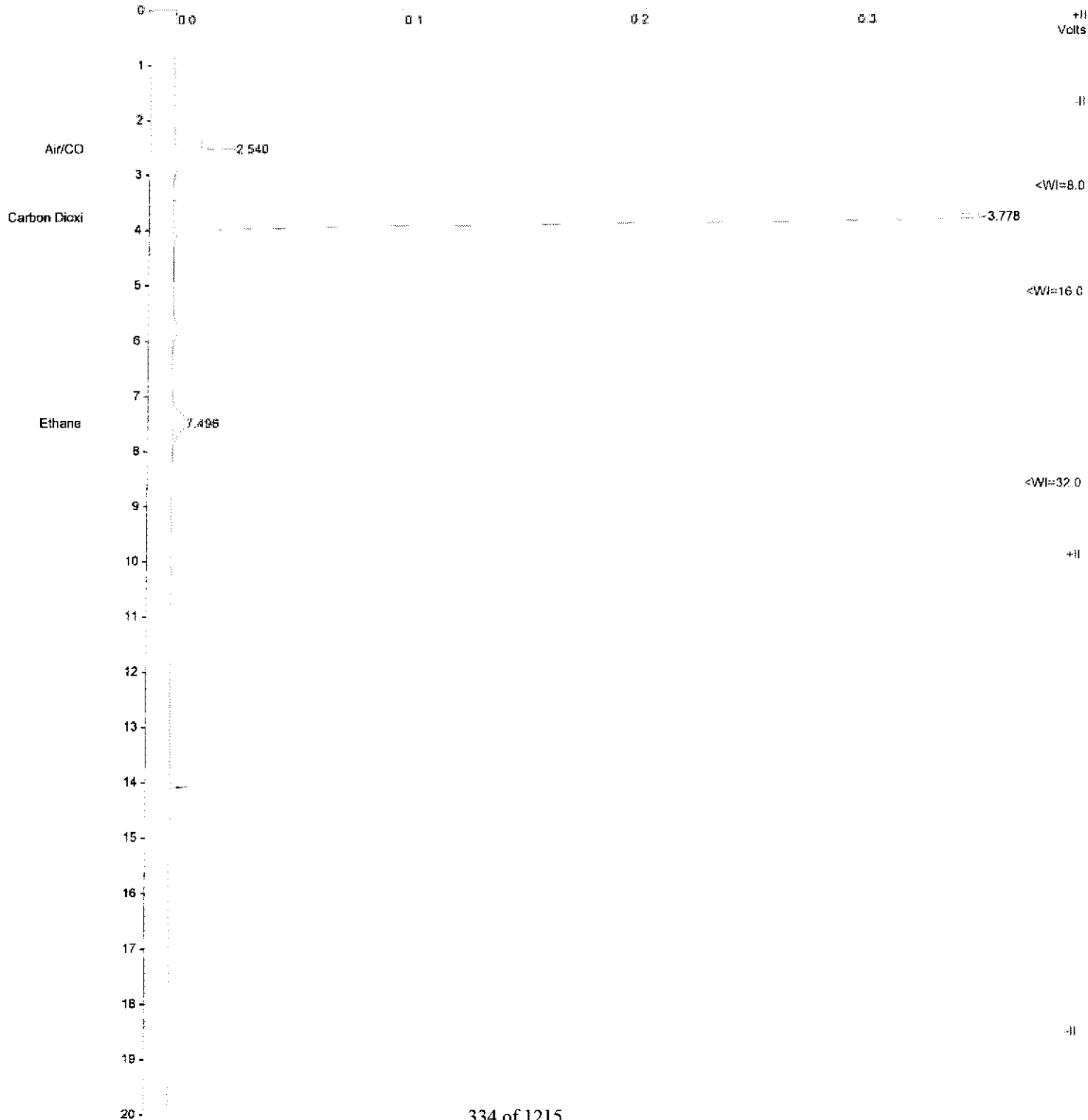
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-25 14-51-01 a 027 - 051 b inj 1 - master sqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\MS\methods\Master_SQCMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 051 B

Injection Date: 2021-03-25 14:51 Calculation Date: 2021-03-25 15:11

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-0VL5B Bus Address : 44
Instrument : Lotus RMGC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.30



Title : c:\bruker\data\2021\msr_21\2021-03-25_14-51-01.a_027 - 051.b_inj_1 - master sqand 25.3 ml loop 05-05-20...todrange5 - copy.run
Method File : 2021-04-02_10-43-18_5 ppm_mix_inj_3 - master sqand 25.3 ml loop 05-05-20...todrange5 - copy-middle.mtr
Sample ID : A_027 - 051.B

Injection Date: 2021-03-25 14:51 Calculation Date: 2021-04-06 09:40

Operator : Douglass W.
Workstation : DESKTOP-6V15B
Instrument : Lotus MMOC
Channel : Middle = FID

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-----------------|--------------|
| 1 | Methane | 24.35 | 5.438 | 0.078 | 39347 | BV | 16.3 | |
| 2 | Carbon Monox | 25.27 | 6.158 | 0.293 | 43730 | VB | 20.6 | |
| 3 | NMFIPOC | 1.26 | 17.328 | 0.149 | 25446 | BB | 111.9 | |
| Totals: | | 50.92 | | 0.520 | 108523 | | | |

Total Unidentified Counts : 8663 counts

Detected Peaks: 15 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSA: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 16 microVolts

Manual Injection

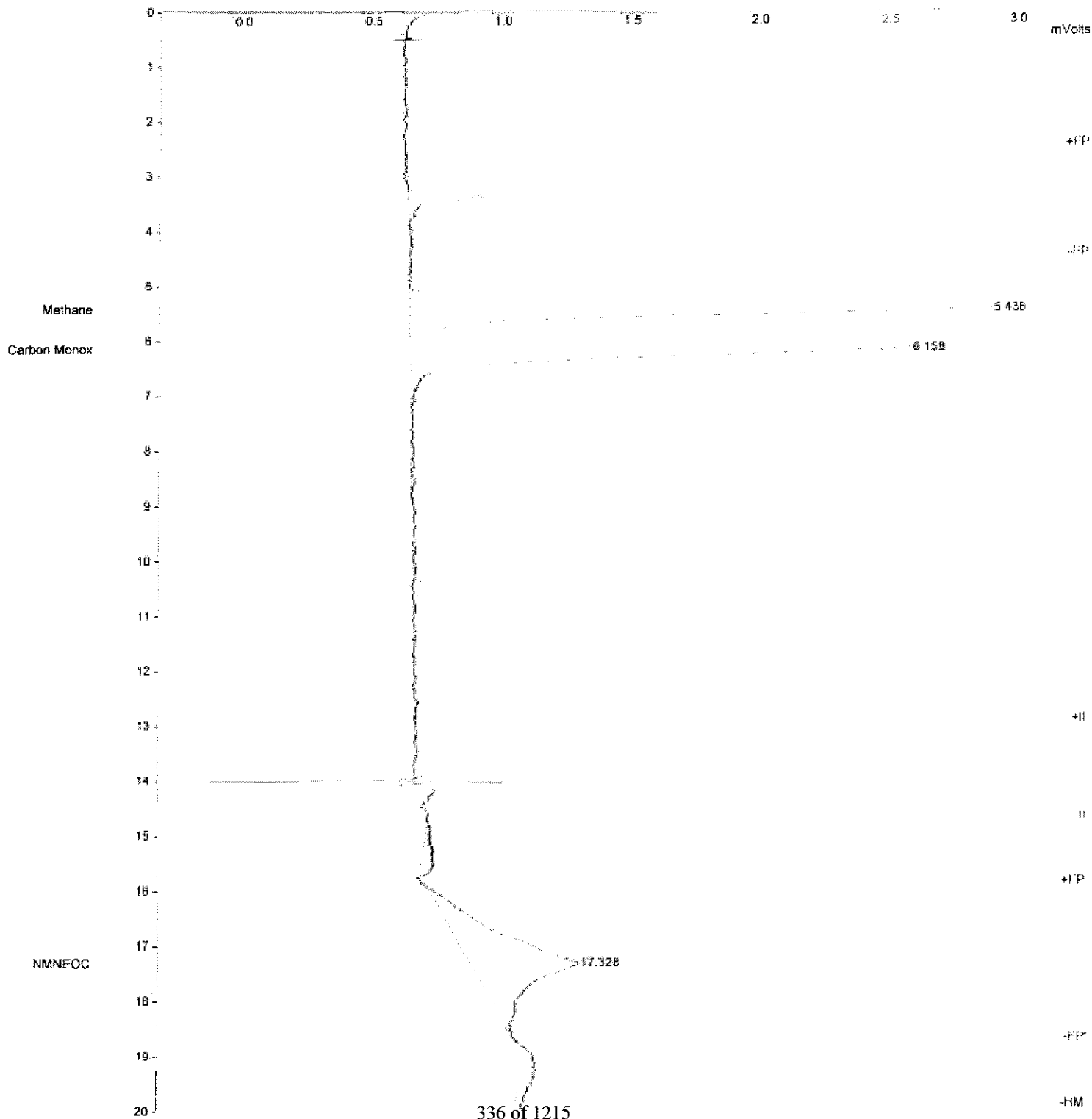
Title :
Run File : c:\brakerws\data\2021\mar_21\2021-03-25 14-51-01 a 027 - 051 b inj 1 - master sqaqnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqaqnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 051 B

Injection Date: 2021-03-25 14:51 Calculation Date: 2021-04-06 09:40

Operator : Douglass W. Detector Type: 43X-GC (1000 Volts)
Workstation: DESKTOP-6VL53 Bus Address : 44
Instrument : Lotus MWOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



File : C:\Bruker\Adara\2021\mar_21\2021-03-25_15-17-21_a.027 - 351_b_inj_2 / master: ssqamd 25.3 ml loop 35-05-20_tcdranges - copy.run
Method File : C:\Bruker\Adara\2021\mar_21\2021-03-25_15-17-21_a.027 - 351_b_inj_2 / master: ssqamd 25.3 ml loop 35-05-20_tcdranges - copy.mch
Sample ID : A.027 - 051 B

Injection Date: 2021-03-25 15:17 Calculation Date: 2021-03-25 15:37
Operator : Douglass W. Detector Type: 4XX-SC (1000 Volts)
Workstation: DESKTOP-6VL53 Bus Address : 44
Instrument : Lotus MMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width I/2 (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.538 | 0.025 | 61858 | VV | 1.8 | |
| 2 | Carbon Dioxide | 637.9480 | 3.775 | 0.335 | 5962609 | BB | 16.0 | |
| 3 | Ethane | 16.7774 | 7.494 | 0.118 | 158309 | BB | 26.1 | |
| Totals: | | 634.7234 | 0.478 | | 6082776 | | | |

Total Unidentified Counts : 388397 counts

Detected Peaks: 8 Rejected Peaks: 0 Identified Peaks: 3

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSS: 1 microVolts

Noise (used): 13 microVolts - monitored before this run

Manual injection

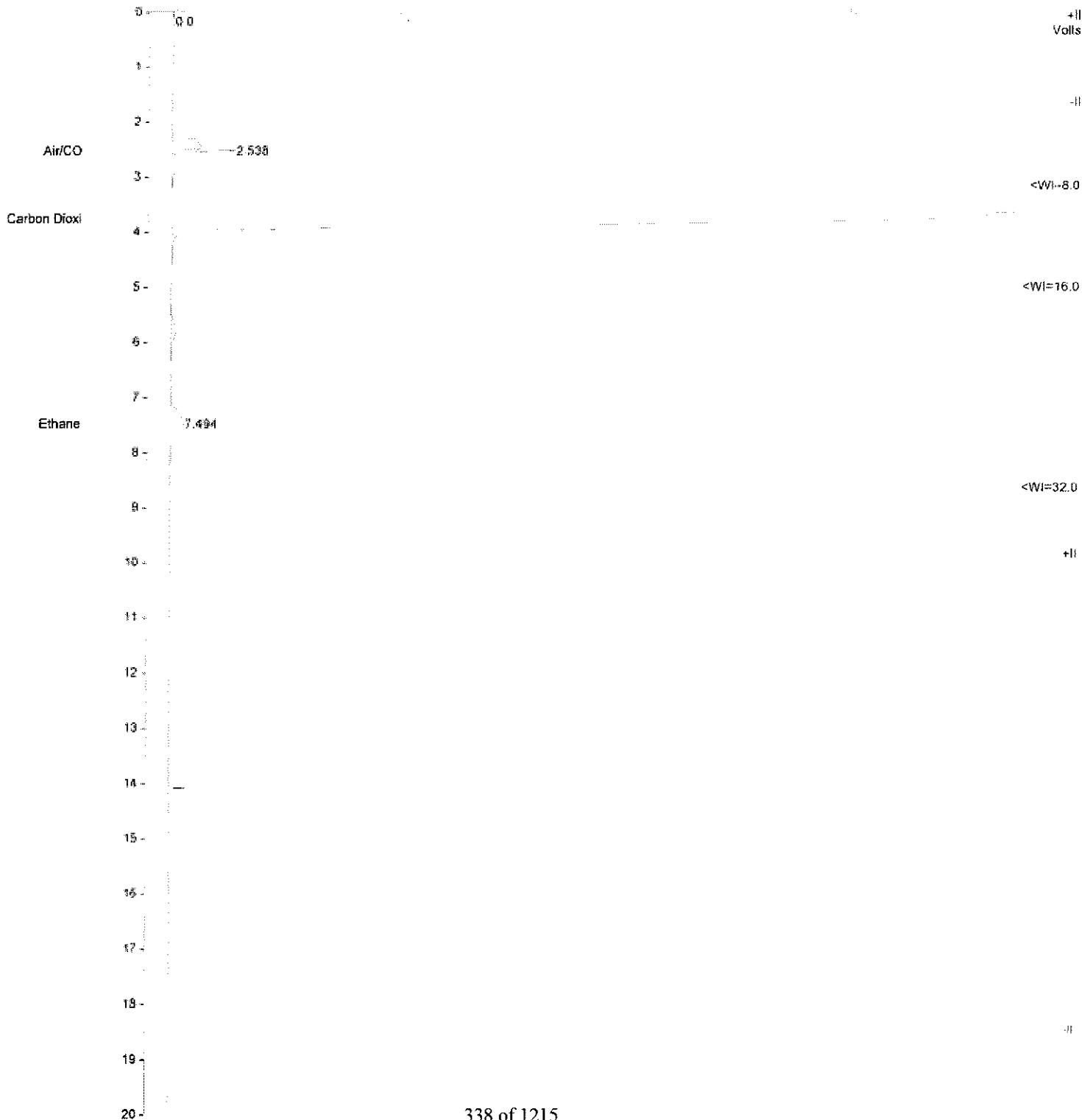
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 15-17-21 a 027 - 051 b inj 2 - master sqaqmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 051 B

Injection Date: 2021-03-25 15:17 Calculation Date: 2021-03-25 15:37

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS B.C.1 for SCION Version 3.0.1 ** 02057-3701-AE1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 4%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerw\data\2021\mar_21\2021-03-25_15-17-21.s 0277 - 051.s.inj 2 - master sqagmd 25.3 3 ml loop 05-05-20.tcdranges - copy.run
Method File : 2021-04-02 10-43-18 5 ppm.mlx.inj 3 - master sqagmd 25.3 3 ml loop 05-05-20.tcdranges - copy-middle.mth
Sample ID : A 027 - 051 B

Injection Date: 2021-03-25 15:17 Calculation Date: 2021-04-06 09:40

Operator : Douglass W.
Workstation: DESKTOP-6V15B
Instrument: Lotus NMOC
Channel : Middle - FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** C2057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: External Standard

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 24.36 | 5.439 | 0.079 | 39310 | BV | 16.4 | |
| 2 | Carbon Monox | 25.11 | 6.159 | 0.294 | 43443 | VB | 20.7 | |
| 3 | NMABOC | 1.27 | 17.372 | 0.193 | 25579 | BB | 167.3 | |
| Totals: | | 50.74 | | 0.566 | 108332 | | | |

Total Unidentified Counts : 7730 counts

Detected Peaks: 14 Rejected Peaks: 4 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts ISB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 14 microVolts

Manual Injection

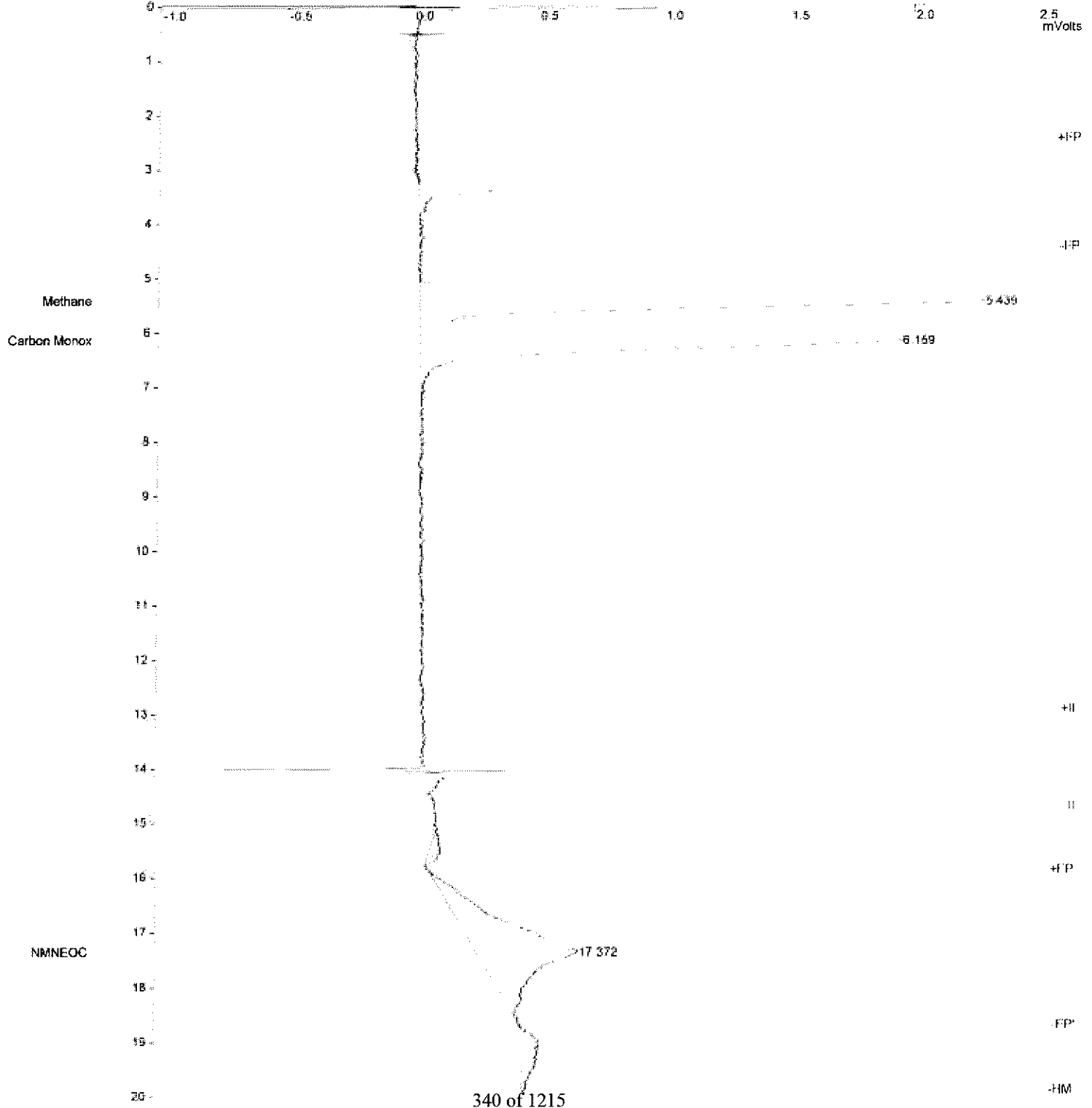
Title :
Run File : c:\brukerms\data\2021\mar_21\2021-03-25 15-17-21 a 027 - 051 b inj 2 - master sqagrd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqagrd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 051 B

Injection Date: 2021-03-25 15:17 Calculation Date: 2021-04-06 09:40

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus RMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\data\2021\mar_21\2021-03-25_15-49-48_4_027 - 061_4_1.rtl
Method File : C:\Bruker\MS\methods\Master_SQAQMD 25.3_3 ml loop 05-05-20_TCDxrange5 - Copy.mh
Sample ID : A 027 - 061_A

Injection Date: 2021-03-25 15:43 Calculation Date: 2021-03-25 16:03

Operator : Douglass W.
Workstation : DESKTOP-6V15B
Instrument : Lotus NMOC
Channel : Front = FID

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.539 | 0.326 | 45153 | VV | 1.8 | |
| 2 | Carbon Diox1 | 638.7653 | 3.777 | 0.337 | 587017 | BB | 16.1 | |
| 3 | Ethane | 17.2269 | 7.496 | 0.120 | 162547 | PB | 26.1 | |
| Totals: | | 655.9922 | 0.482 | | 607781.7 | | | |

Total Unidentified Counts : 322603 counts

Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual Injection

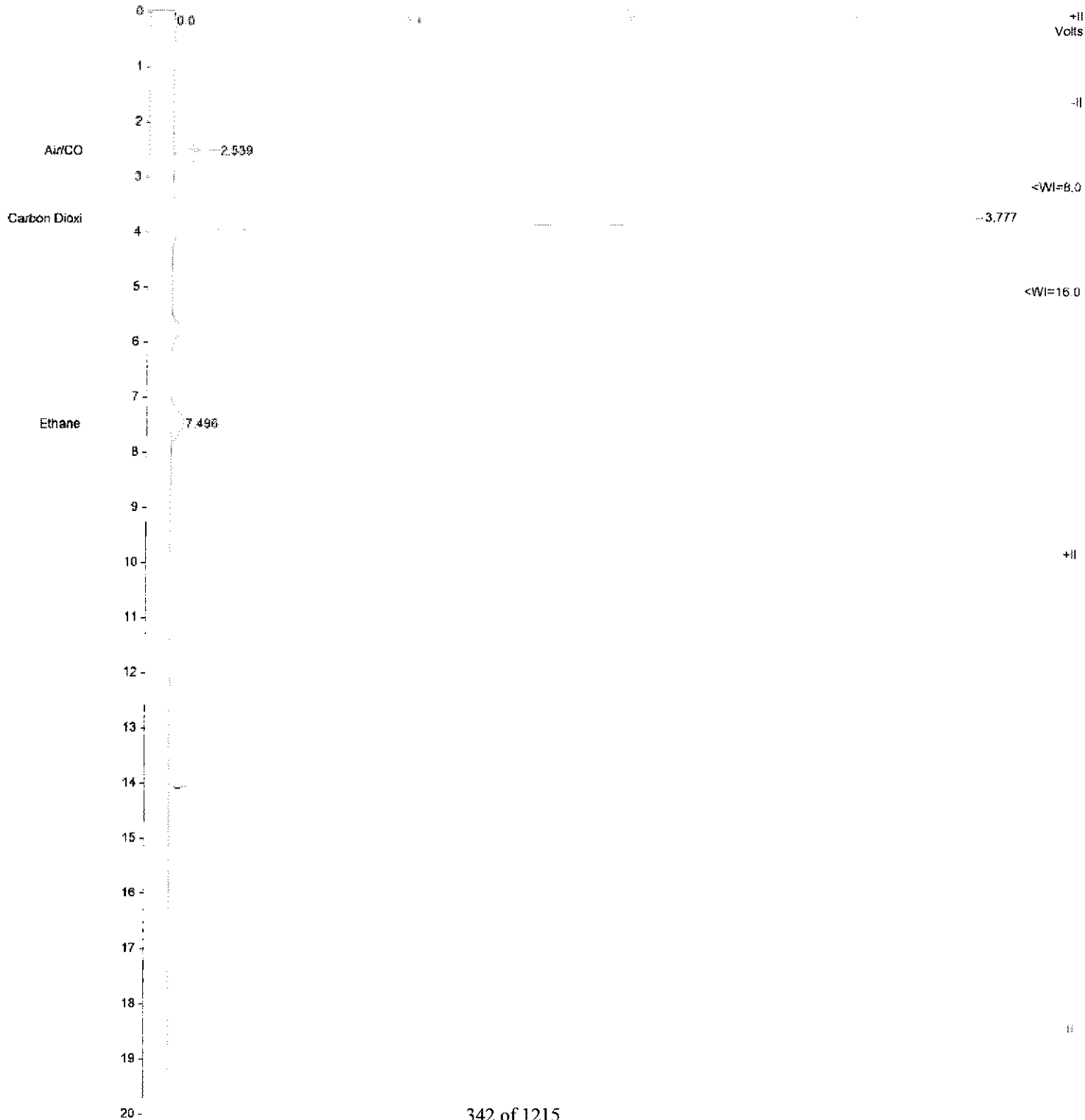
Title :
Run File : c:\bruker\ms\data\2021\mar_21\2021-03-25 15-43-43 a 027 - 061 a inj 1 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\MS\methods\Master SQACMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mtd
Sample ID : A 027 - 061 A

Injection Date: 2021-03-25 15:43 Calculation Date: 2021-03-25 16:03

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL53 Bus Address : 44
Instrument : Lotus RMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-370i-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\msd\data\2021\mar_21\2021-03-25 15-43-48 & 027 - 061.m inj 1 - master seqand 25.3 3 ml loop 05-05-20_bcdranges . copy.run
Run File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master seqand 25.3 3 ml loop 05-05-20_bcdranges - copy-middle.mth
Method File : A 027 - 061.A

Sample ID : A 027 - 061.A
Injection Date: 2021-03-25 15:43 Calculation Date: 2021-04-06 09:50
Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts);
Workstation: DESKTOP-6V1DB Bus Address : 44
Instrument : Locus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version 8.0.1 * 02657-3701-AB1-415C **
Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppm) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (1/2 sec) | Status Codes |
|----------|--------------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 16.99 | 5.441 | 0.081 | 27420 | BV | 16.4 | |
| 2 | Carbon Monox | 18.80 | 6.163 | 0.298 | 32538 | VB | 20.8 | |
| 3 | NMNEOC | 1.23 | 17.335 | 0.156 | 24966 | BB | 110.5 | |
| Totals: | | 37.02 | | 0.535 | 84924 | | | |

Total Unidentified Counts : 8911 counts
 Detected Peaks: 13 Rejected Peaks: 2 Identified Peaks: 3
 Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSH: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 18 microVolts
 Manual Injection

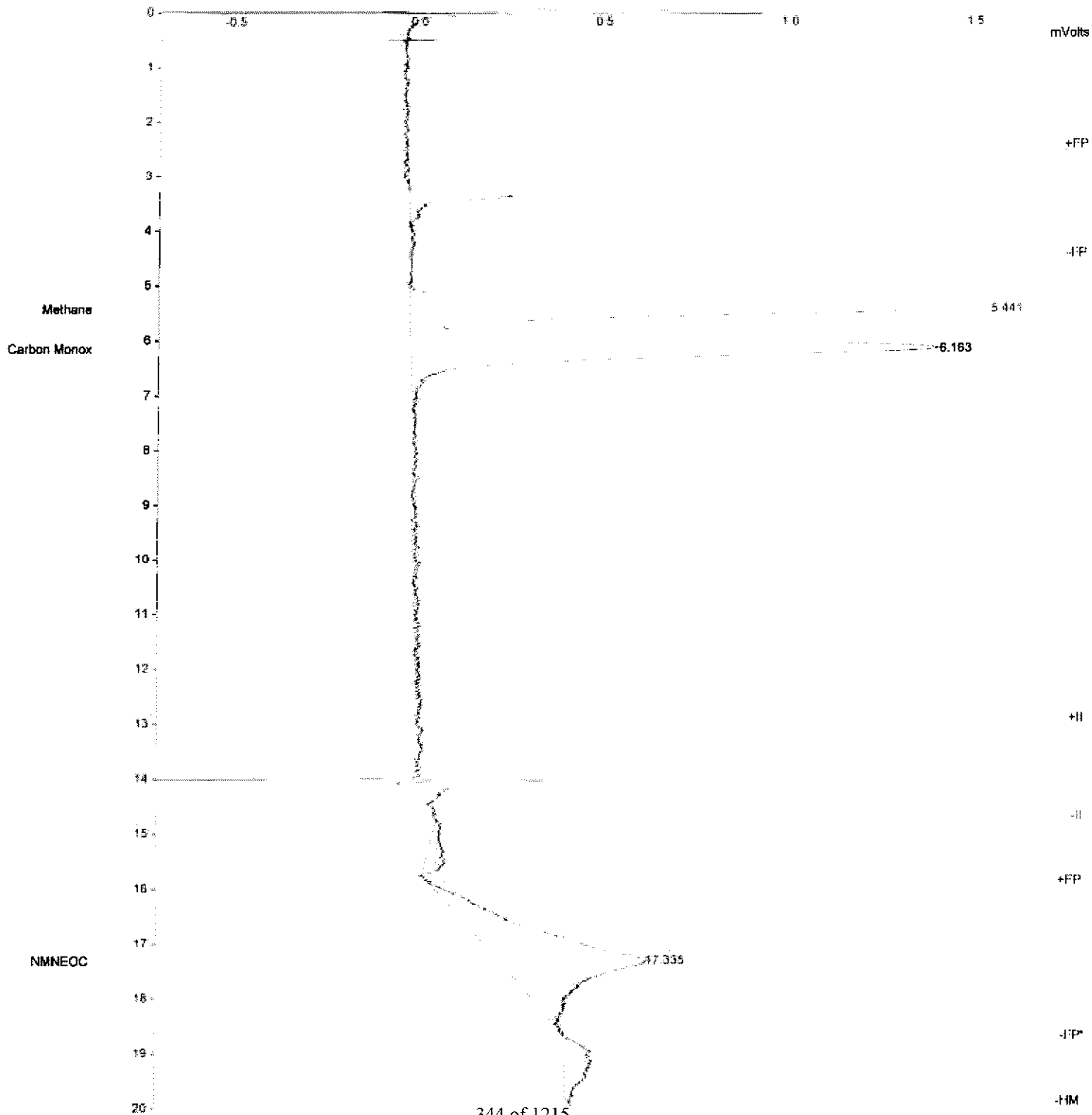
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 15-43-48 a 027 - 061 a inj 1 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 061 A

Injection Date: 2021-03-25 15:43 Calculation Date: 2021-04-06 09:50

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FTD Run Time : 20.000 min

** MSWS 8.0.1 for SCIOM Version 8.0.1 ** 32057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\msd\data\2021\mar_21\2021-02-25_16-10-05_a_027 - 061_a inj 2 - master sqs.qmd 25.3 3 ml loop 05-05-20...tndranges - copy.run
Sub File : C:\bruker\msd\data\2021\mar_21\2021-02-25_16-10-05_a_027 - 061_a inj 2 - master sqs.qmd 25.3 3 ml loop 05-05-20...tndranges - copy.run
Method File : C:\bruker\msd\data\2021\mar_21\2021-02-25_16-10-05_a_027 - 061_a inj 2 - master sqs.qmd 25.3 3 ml loop 05-05-20...tndranges - copy.run
Sample ID : A 027 - 061 A

Injection Date: 2021-03-25 16:10 Calculation Date: 2021-03-25 16:30
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15B Bus Address: 44
Instrument: LUNA NMO5 Sample Rate: 5.00 Hz
Channel: Front = FID Run Time: 20.000 min
** MSW 8.0.1 for GCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|-------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | AL7CO | 0.0000 | 2.538 | 0.025 | 44905 | VV | 1.8 | |
| 2 | Carbon Diox | 639.9897 | 3.777 | 0.337 | 5081364 | BB | 16.1 | |
| 3 | Sphare | 17.2137 | 7.496 | 0.120 | 163365 | BB | 26.1 | |
| Totals: | | 657.3034 | 0.482 | | 6089634 | | | |

Total Unidentified Counts : 322806 counts
Detected Peaks: 7 Rejected Peaks: 0 Identified Peaks: 7
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 11 microVolts - monitored before this run
Manual Injection

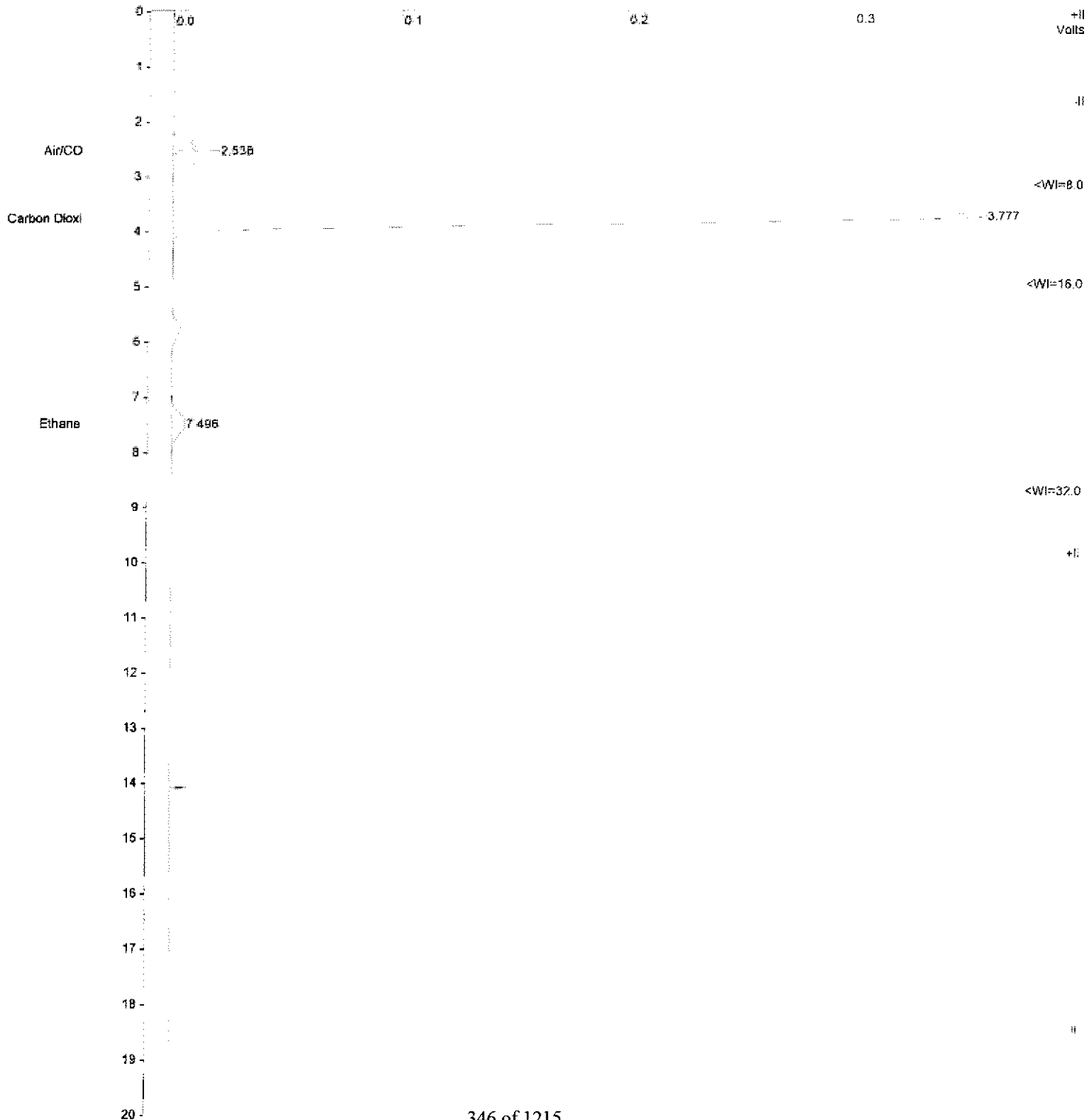
Title :
Run File : c:\brukerws\data\2021\mar 21\2021-03-25 16-10-05 a 027 - 061 a inj 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAGMD 25.3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 061 A

Injection Date: 2021-03-25 16:10 Calculation Date: 2021-03-25 16:30

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL58 Bus Address : 44
Instrument : Lotus NWOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 48
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\data\2021\mar_21\2021-03-25 16:10-05 a 027 - 061.a inj 3 - master sqdmd 25.3 3 ml loop 05-05-20...tocrange5 - copy.run
Run File : 2021-04-02 10-43-19 5 ppm.mh: inj 3 - master sqdmd 25.3 3 ml loop 05-05-20...tocrange5 - copy-middle.mh
Method File : A 027 - 061 A

Injection Date: 2021-03-25 16:10 Calculation Date: 2021-04-06 09:50

Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VH5B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 16.90 | 5.442 | 0.082 | 27272 | BY | 16.4 | |
| 2 | Carbon Monox | 18.42 | 6.163 | 0.298 | 31867 | VS | 20.8 | |
| 3 | NMRSEC | 1.24 | 17.372 | 0.193 | 25010 | BB | 103.4 | |
| Totals: | | 36.56 | 0.573 | | 54149 | | | |

Total Unidentified Counts : 9259 counts

Detected Peaks: 14 Rejected Peaks: 4 Identified Peaks: 5

Multiplicier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts ISB: 1 microVolts

Noise (used): 15 microVolts -- fixed value

Noise (monitored before this run): 14 microVolts

Manual injection

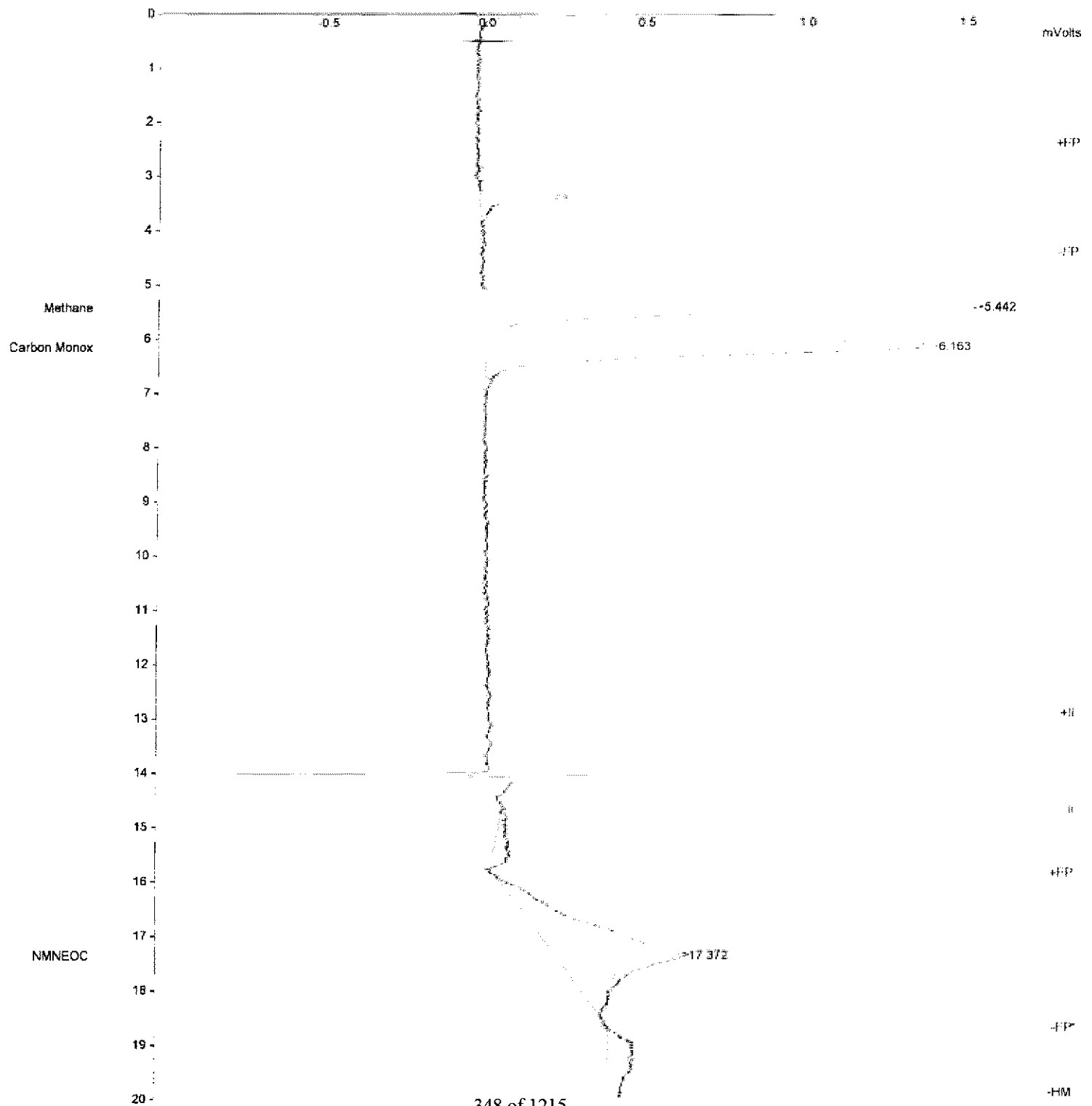
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 16-10-05 a 027 - 061 a inj 2 - master sqacnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.zur
Method File : 2021-04-02 10-43-18 5 ppr mix inj 3 - master sqacnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 061 A

Injection Date: 2021-03-25 16:10 Calculation Date: 2021-04-06 09:50

Operator : Douglass W. Detector Type: 4XN-GC (1000 Volts)
Workstation: DESKTOP-6V15E Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FTD Run Time : 20.000 min

** MSWS 5.0.1 for SCIOW Version 8.0.1 ** 32357-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-03-25_16-36-29_A_027 - 061.b inj 1 - master.ssqand 25.3 ml loop 05-05-20_tcranges5 - copy.run
Run File : C:\bruker\data\2021\mar_21\2021-03-25_16-36-29_A_027 - 061.b inj 1 - master.ssqand 25.3 ml loop 05-05-20_tcranges5 - copy.run
Method File : C:\bruker\data\2021\mar_21\2021-03-25_16-36-29_A_027 - 061.b inj 1 - master.ssqand 25.3 ml loop 05-05-20_tcranges5 - copy.mch
Sample ID : A_027 - 061 B

Injection Date: 2021-03-25 16:36 Calculation Date: 2021-03-25 16:56
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6V15B Bus Address: 44
Instrument: Lotus NMOG Sample Rate: 5.00 Hz
Channel: Front = FID Run Time: 20.000 min

** MSWS B.0.1 for SCION Version 8.0.1 * 02857-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width i/2 (sec) | Status Codes |
|----------|-------------|---------------|-----------------|-------------------|---------------|-----------------|-----------------|--------------|
| 1 | Air/CO | 0.0600 | 2.540 | 0.027 | 47268 | VV | 1.6 | |
| 2 | Carbon Diox | 688.9325 | 3.779 | 0.339 | 6147246 | BB | 16.1 | |
| 3 | Ethane | 18.1564 | 7.501 | 0.125 | 71311 | BB | 26.0 | |
| Totals: | | 687.0919 | 0.491 | | 6365825 | | | |

Total Unidentified Counts : 34197 counts

Detected Peaks: 3 Rejected Peaks: 1 Identified Peaks: 3

Multipier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual Injection

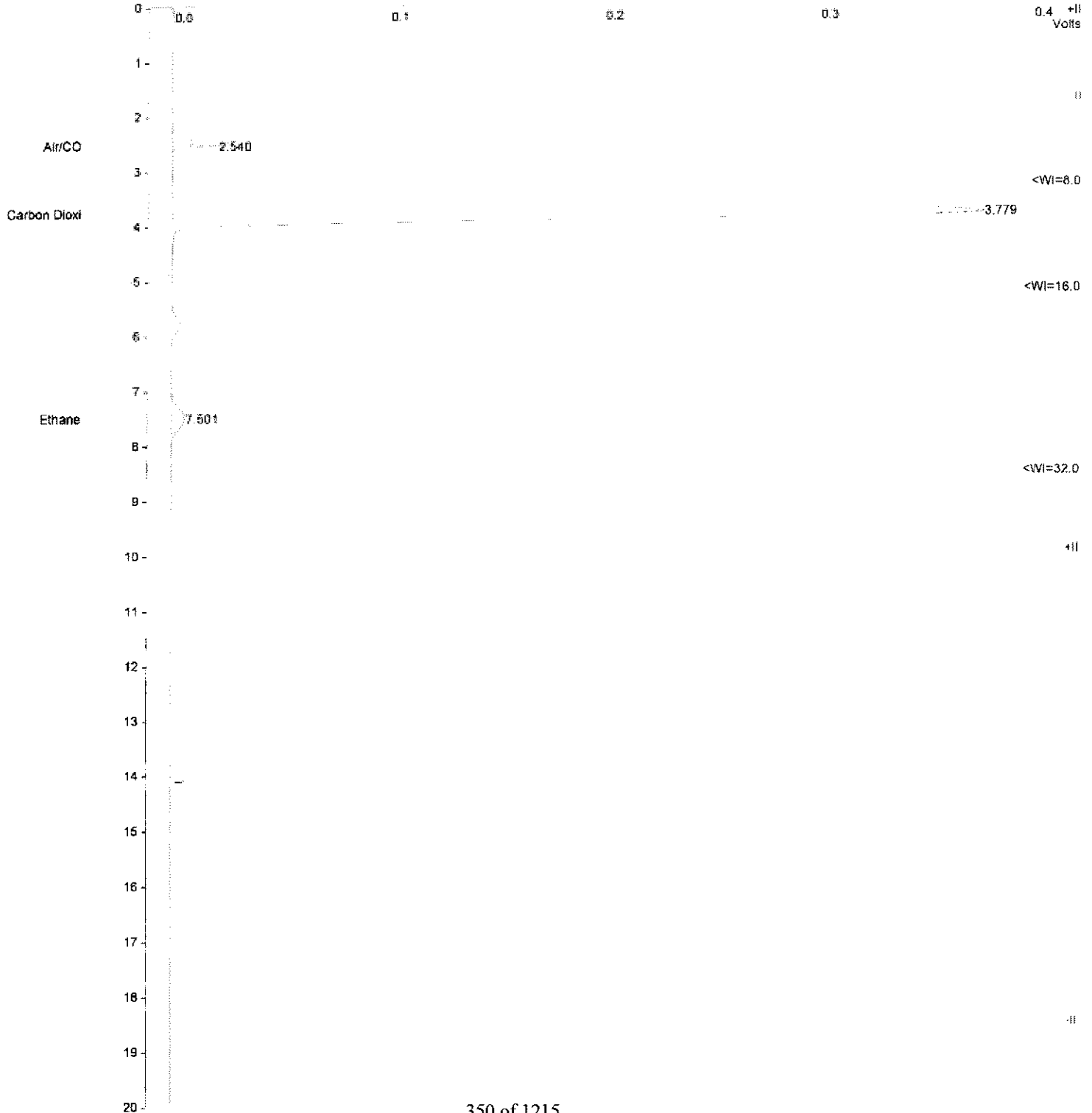
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 16:36-29 a 027 - 061 b inj 1 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAMND 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mch
Sample ID : A 027 - 061 B

Injection Date: 2021-03-25 16:36 Calculation Date: 2021-03-25 16:56

Operator : Douglass W. Detector Type: 4EX-GC (1000 Volts)
Workstation: DESKTOP-GVL5B Bus Address : 44
Instrument : Lotus SMC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 4%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\sw\data\2021\mar_21\2021-03-25_16-36-29_a_027 - 061_b_161_1 - master sqamnd 25.3 3 ml loop 05-05-20_tcdranges - copy.run
Method File : 2021-04-02_10-43-19_5 ppm mix inj 3 - master sqamnd 25.3 3 ml loop 05-05-20_tcdranges - copy.mtd16.mch
Sample ID : A 027 - 061 B

Injection Date: 2021-03-25 16:36 Calculation Date: 2021-04-06 09:51

Operator : Douglas W. Detector Type: 4KX-GC (1000 Volts)
Workstation: DEKTOP-6V15B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSMS 0.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 17.88 | 5.440 | 0.000 | 28845 | BY | 16.4 | |
| 2 | Carbon Monox | 19.50 | 6.162 | 0.237 | 33747 | VB | 20.8 | |
| 3 | NMNEOC | 1.21 | 17.332 | 0.153 | 24480 | BB | 96.3 | |
| Totals: | | 38.59 | | 0.530 | 87072 | | | |

Total Unidentified Counts : 9089 counts

Detected Peaks: 17 Rejected Peaks: 2 Identified Peaks: 3

Multiplicator: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 13 microVolts

Manual Injection

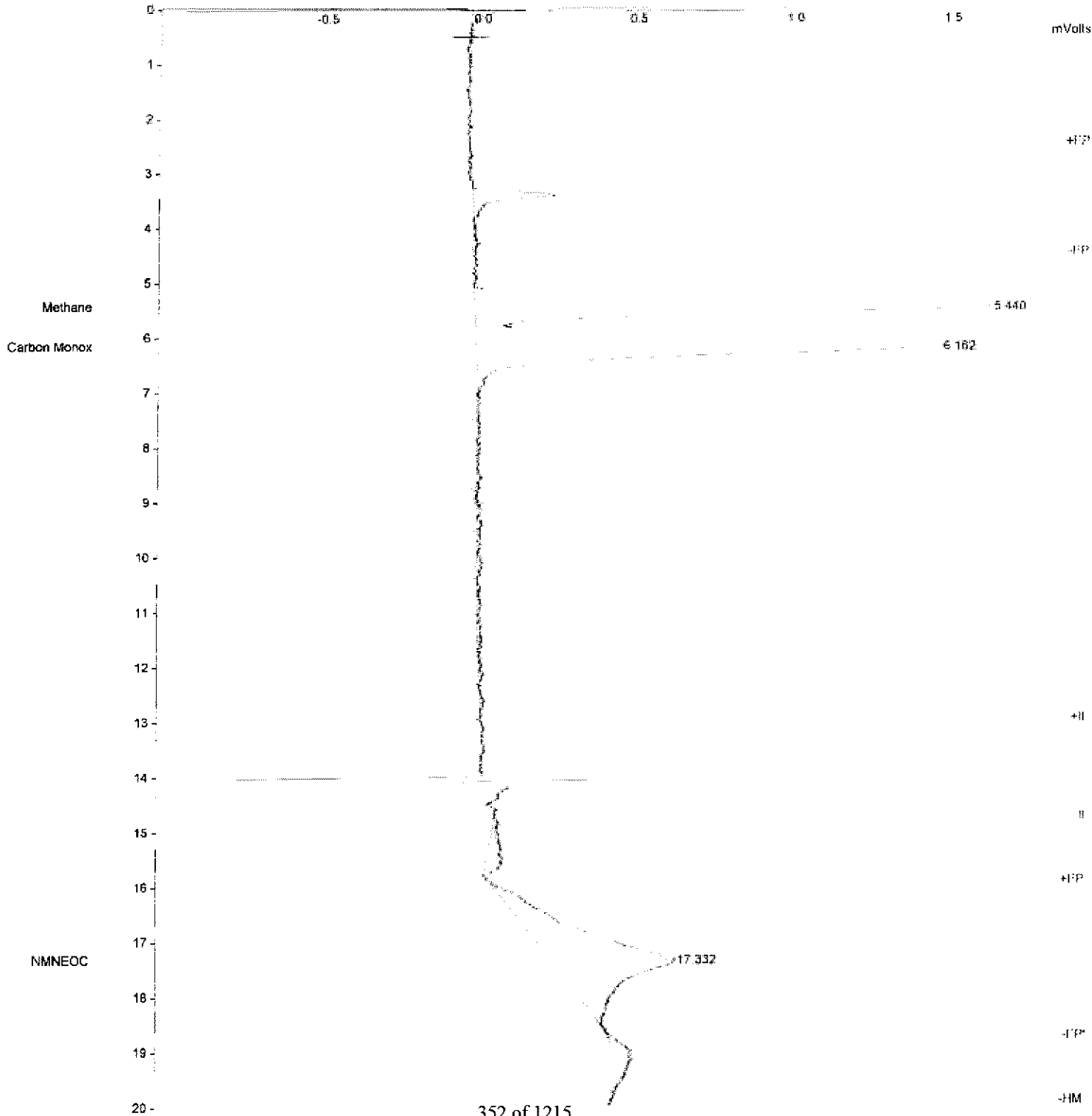
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 16:36:29 a 027 - 061 b inj 1 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10:43:13 5 ppm mix inj 3 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 061 B

Injection Date: 2021-03-25 16:36 Calculation Date: 2021-04-06 09:51

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: CESTOP-6VLSB Bus Address : 44
Instrument : Lotus MGC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\mar_21\2021-03-25_17-02-51_a_027 - 061_b_inj_2 - master.ssqcmd 25.3 ml loop 05-05-20_tedranges - copy.run
Run File : C:\bruker\data\2021\mar_21\2021-03-25_17-02-51_a_027 - 061_b_inj_2 - master.ssqcmd 25.3 ml loop 05-05-20_tedranges - copy.mn
Method File : C:\bruker\data\2021\mar_21\2021-03-25_17-02-51_a_027 - 061_b_inj_2 - master.ssqcmd 25.3 ml loop 05-05-20_tedranges - copy.mn
Sample ID : A 027 - 061 B
Injection Date: 2021-03-25 17:02 Calculation Date: 2021-03-25 17:22
Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Lotus NMOG
Channel : Front = FID
Detector Type: 4RX-GC (1000 volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min
** MSWS 8.0.1 for SCIION Version 6.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppm) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sup. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.539 | 0.026 | 47423 | VV | 1.8 | |
| 2 | Carbon Diox1 | 667.1568 | 3.777 | 0.337 | 6130908 | BB | 16.1 | |
| 3 | Ethane | 18.1345 | 7.495 | 0.119 | 171106 | BB | 26.0 | |
| Totals: | | 685.2914 | 0.482 | | 6349437 | | | |

Total Unidentified Counts : 340436 counts
Detected Peaks: 8 Rejected Peaks: 1 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 6 microVolts - monitored before this run
Manual Injection

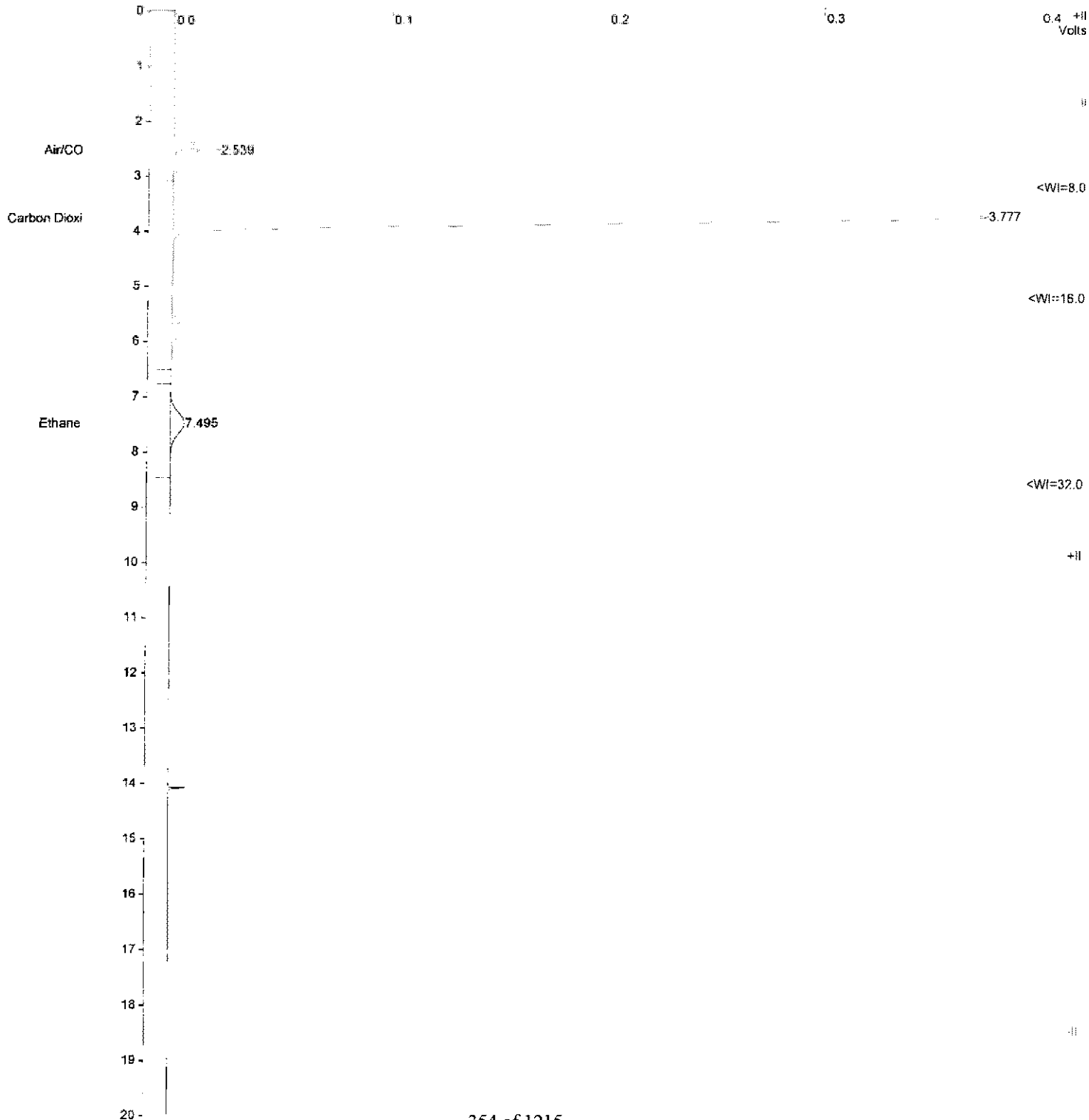
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 17-02-51 a 027 - 061 b inj 2 - master sqaqmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\MS\methods\Master SQAQMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : A 027 - 061 B

Injection Date: 2021-03-25 17:02 Calculation Date: 2021-03-25 17:22

Operator : Douglas W. Detector Type: AXX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus RMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSW 8.0.1 for SCIOM Version 8.0.1 ** 02057-3701-A31-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 4%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\data\2021\max_21\2021-03-25_17-02-51.a.027 - 061.b inj 2 - master sqand 25.3 3 ml loop 05-05-20...eccdrange5 - copy.run
Method File : 2021-04-02 10:43:18 5 ppm_min inj 3 - master sqand 25.3 3 ml loop 05-05-20...eccdrange5 - copy-middle.a.mcr
Sample ID : A.027 - 061 B

Injection Date: 2021-03-25 17:02 Calculation Date: 2021-04-06 09:51

Operator : Douglass W.
Workstation: DESKTOP-6VLSB
Instrument : Lotus NMOG
Channel : Middle = FID

** MWS 8.0.1 for SCIION Version 8.0.1 ** 02857-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline

Peak Measurement: Peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width i/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 17.83 | 5.441 | 0.081 | 28776 | BV | 16.4 | |
| 2 | Carbon Monox | 19.50 | 6.163 | 0.298 | 33739 | VB | 20.8 | |
| 3 | NMNEOC | 1.20 | 17.332 | 0.153 | 24231 | BB | 98.4 | |
| Totals: | | | | | 38.53 | | 86746 | |

Total Unidentified Counts : 8022 counts

Detected Peaks: 13 Rejected Peaks: 0 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 17 microVolts

Manual injection

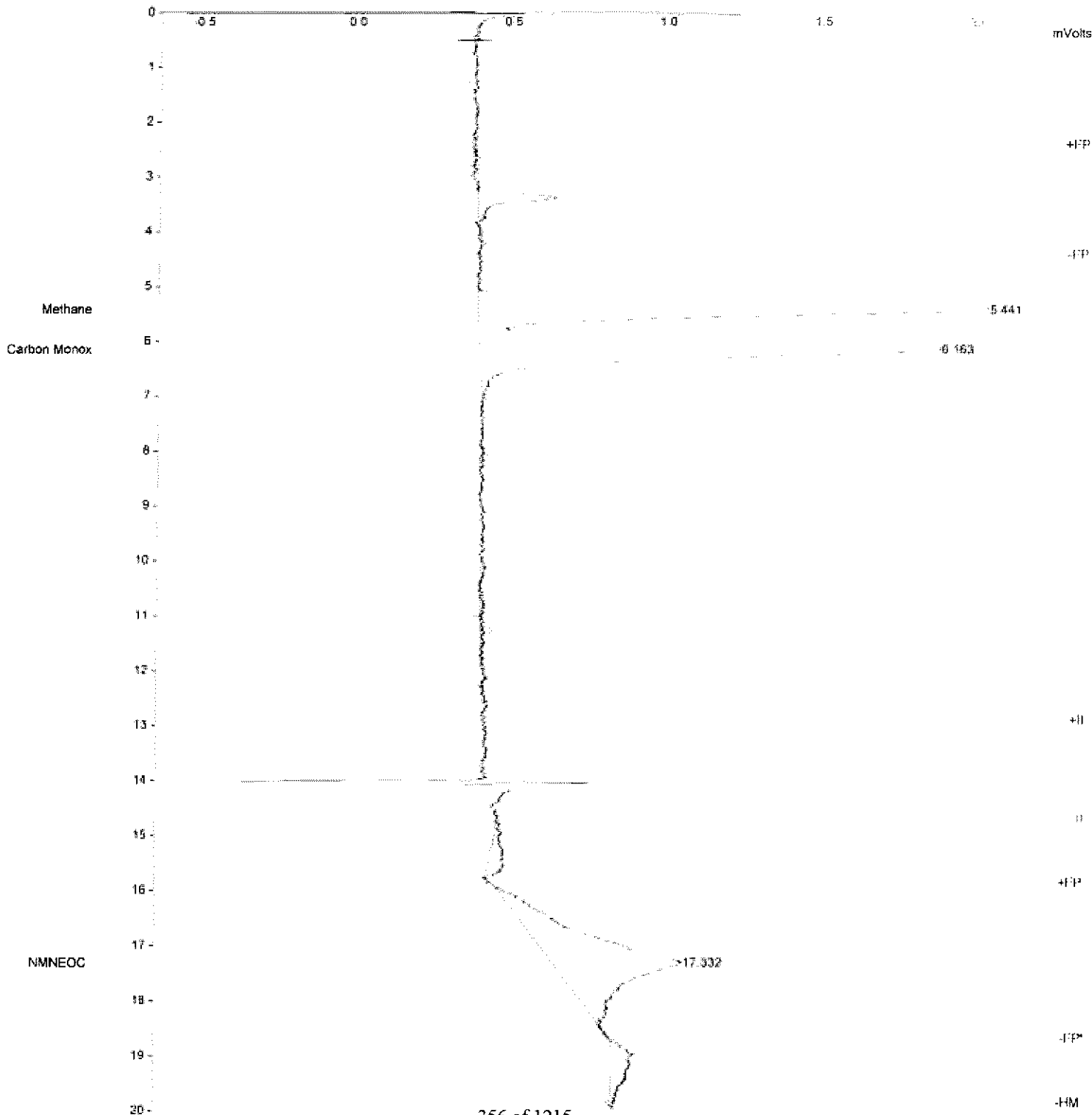
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 17-02-51 a 027 - 061 b inj 2 - master sqagrad 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-04-02 10-43-18 5 ppm mix inj 3 - master sqagrad 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : A 027 - 061 B

Injection Date: 2021-03-25 17:02 Calculation Date: 2021-04-06 09:51

Operator : Ecuglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-A81-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



3.928

15.201

18.018

A027
-041A

CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1

FILE 0

SAMPLE NO 0

METHOD 41

REPORT NO 738

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|----------|------|
| 1 | 3.928 | 7489379 | | | 36.0925 | |
| 2 | 15.201 | 2104632 | | | 10.1425 | |
| 3 | 18.018 | 11156512 | V | | 53.765 | |
| TOTAL | | | | | 20750520 | 100 |

3.928

15.203

18.029

A027
-041A
dy

CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1

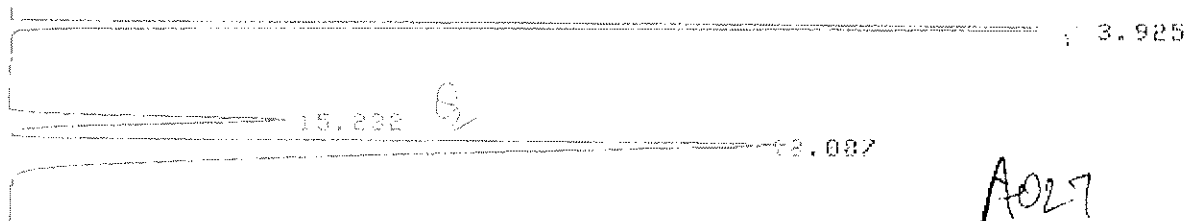
FILE 0

SAMPLE NO 0

METHOD 41

REPORT NO 739

| PKNO | TIME | AREA | NK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|----------|------|
| 1 | 3.928 | 7475180 | | | 35.9612 | |
| 2 | 15.203 | 2116475 | | | 10.1818 | |
| 3 | 18.029 | 11195139 | V | | 53.857 | |
| TOTAL | | | | | 20786792 | 100 |



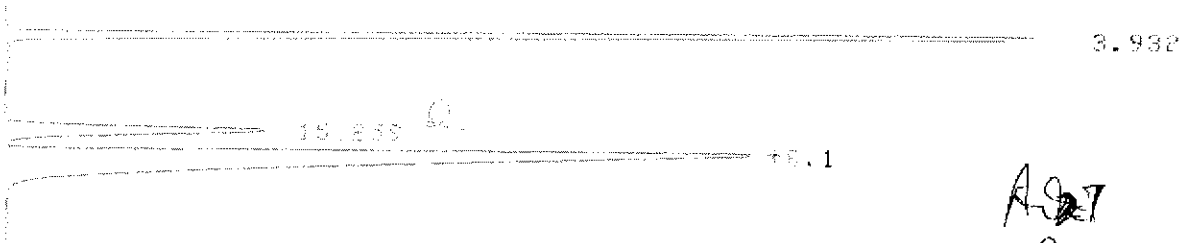
A027
-0418

CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 740

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.925 | 7488720 | | | 35.9053 | |
| 2 | 15.232 | 2325868 | | | 11.1516 | |
| 3 | 18.087 | 11042247 | V | | 52.9431 | |
| TOTAL | | 20856832 | | | 100 | |



A027
-0418
dup

CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 741

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.932 | 7484495 | | | 36.1327 | |
| 2 | 15.259 | 2307483 | | | 11.1398 | |
| 3 | 18.1 | 10921934 | V | | 52.7275 | |
| TOTAL | | 20713912 | | | 100 | |

3.922

15.19

18.013

A027
-05VA

CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1
SAMPLE NO 0
REPORT NO 742

FILE 0
METHOD 41

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|------|--------|----------|----|------|---------|------|
| 1 | 3.922 | 7425658 | | | 36.1574 | |
| 2 | 15.19 | 2035653 | | | 9.9121 | |
| 3 | 18.013 | 11075728 | V | | 53.9305 | |

TOTAL 20537038 100

3.922

15.205

18.039

A027
-05VA
dup

CHROMATOGRAM 1 MEMORIZED

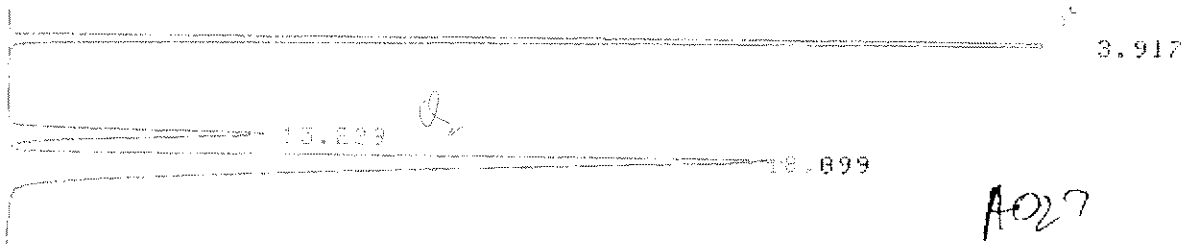
C-RSA CHROMATOPAC

CHANNEL NO 1
SAMPLE NO 0
REPORT NO 743

FILE 0
METHOD 41

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|------|--------|----------|----|------|---------|------|
| 1 | 3.928 | 7417874 | | | 36.0921 | |
| 2 | 15.205 | 2036934 | | | 9.9108 | |
| 3 | 18.039 | 11097816 | V | | 53.9971 | |

TOTAL 20552624 100



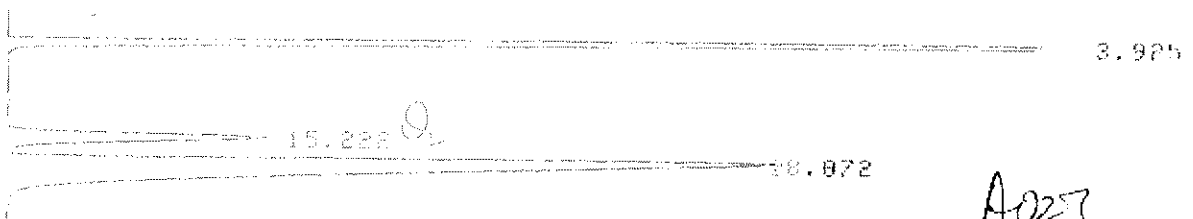
A027
-051B

CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 744

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.917 | 7436366 | | | 36.0053 | |
| 2 | 15.239 | 2172649 | | | 10.5195 | |
| 3 | 18.099 | 11044487 | V | | 53.4751 | |
| TOTAL | | 20653500 | | | 100 | |



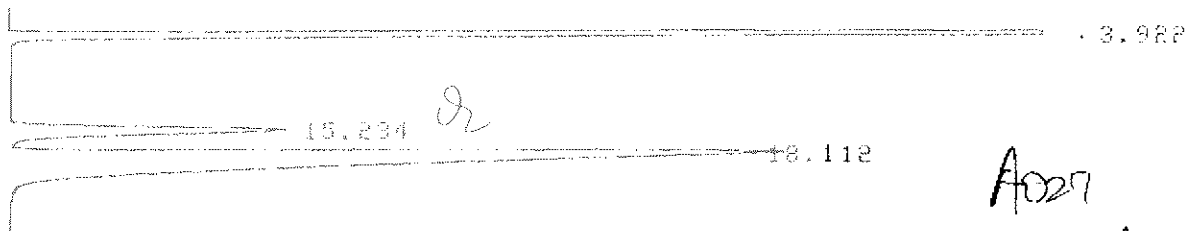
A027
-051B
dy

CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 745

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.925 | 7454158 | | | 36.2481 | |
| 2 | 15.222 | 2151454 | | | 10.4621 | |
| 3 | 18.072 | 10958683 | V | | 53.2899 | |
| TOTAL | | 20564294 | | | 100 | |

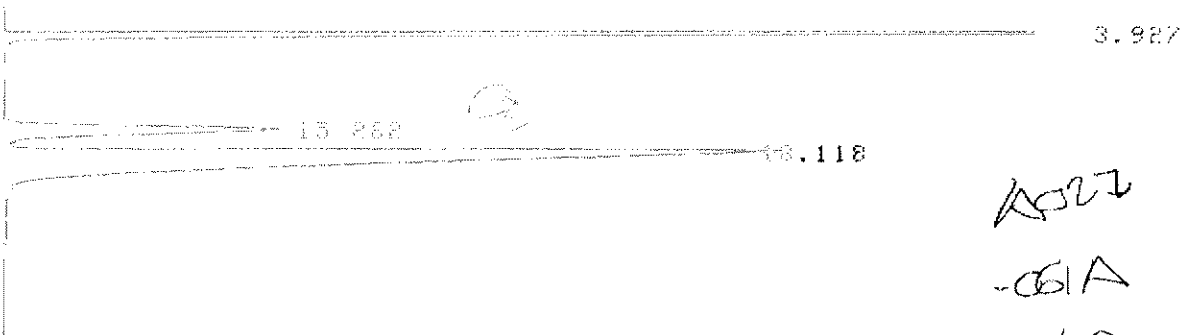


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 746

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|----------|------|
| 1 | 3.922 | 7443978 | | | 35.7756 | |
| 2 | 15.234 | 2316088 | | | 11.1311 | |
| 3 | 18.112 | 11047353 | V | | 53.0933 | |
| TOTAL | | | | | 20807418 | 100 |

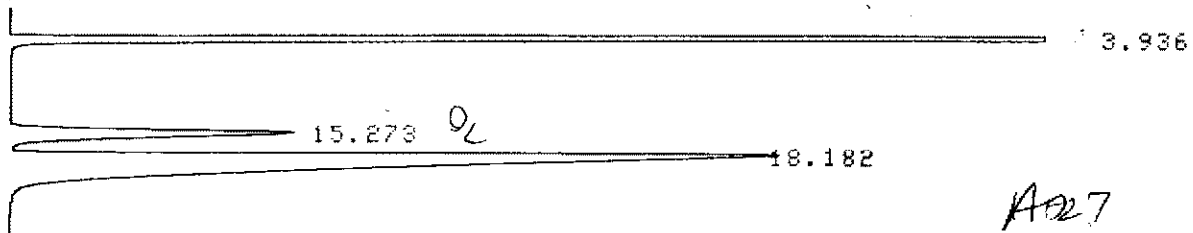


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 747

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|----------|------|
| 1 | 3.927 | 7454714 | | | 36.0574 | |
| 2 | 15.262 | 2304417 | | | 11.1461 | |
| 3 | 18.118 | 10915439 | V | | 52.7965 | |
| TOTAL | | | | | 20674568 | 100 |



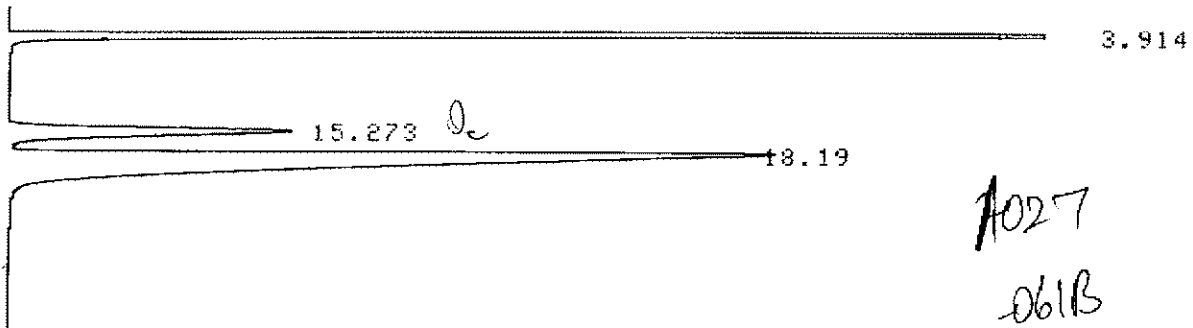
A027
-061B

CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC
CHANNEL NO 1
SAMPLE NO 0
REPORT NO 792

FILE 0
METHOD 41

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.936 | 7449528 | | | 35.8576 | |
| 2 | 15.273 | 2395089 | | | 11.5285 | |
| 3 | 18.182 | 10930689 | Y | | 52.6138 | |
| TOTAL | | 20775304 | | | 100 | |



A027
-061B
dy

CHROMATOGRAM 1 MEMORIZED

C-RSA CHROMATOPAC
CHANNEL NO 1
SAMPLE NO 0
REPORT NO 793

FILE 0
METHOD 41

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.914 | 7427010 | | | 35.7943 | |
| 2 | 15.273 | 2394189 | | | 11.5387 | |
| 3 | 18.19 | 10927968 | Y | | 52.667 | |
| TOTAL | | 20749168 | | | 100 | |

QAQC

Title : C:\bruker\data\2021\mas_21\2021-03-25_09-09-15_02_black_01205_431_2 - master.ssqcmd 25.3 ml loop 05-05 20_redranges - copy.run
Method File : C:\bruker\sws\method\master_sqcmd 25.3 ml loop 05-05-20_redranges - copy.mth
Sample ID : N2_black_01205

Injection Date: 2021-03-25 09:08 Calculation Date: 2021-03-25 09:28

Operator : Douglas W.
Workstation: PEAKTOP-6VLSB
Instrument : Lotus N20C
Channel : FID

Detector Type: 4XX-GC (1000 volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis

Peak Measurement: peak Area

Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code (sec) | Width | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------------|-------|--------------|
| 1 | Alr/CO | 0.0000 | 2.476 | -0.037 | 571 | VP | 0.0 | |
| 2 | Carbon Dioxl | 0.0597 | 3.677 | 0.237 | 549 | VV | 9.2 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 0.0597 | | 0.200 | 1120 | | | |

Status Codes:

M - Missing peak

Total Unidentified Counts : 3302 counts

Detected Peaks: 49 Rejected Peaks: 39 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 5 microVolts - monitored before this run

Manual injection

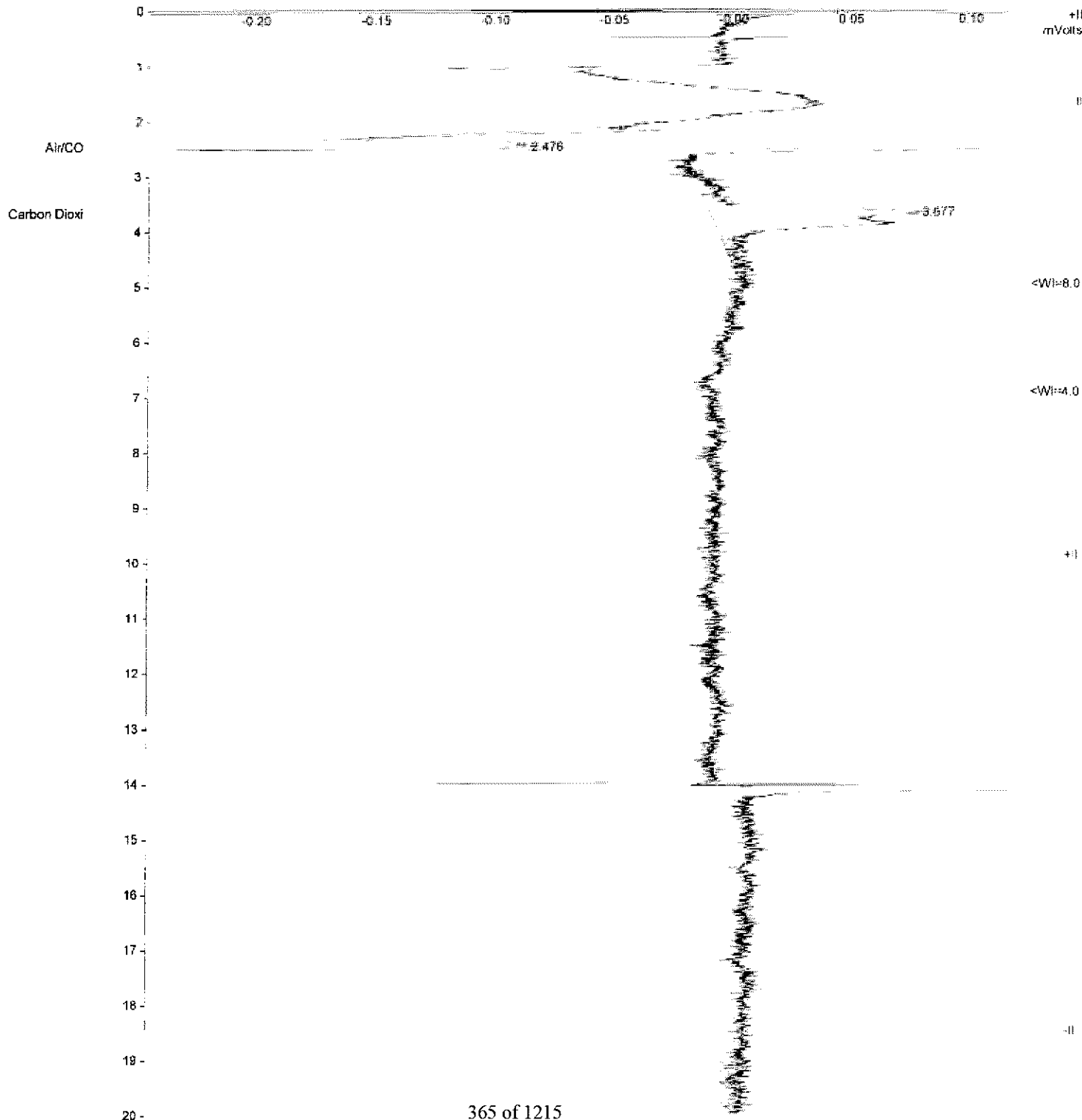
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 09-08-15 n2 blank 01205 inj 2 - master sqaqmd 25.3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 blank 01205

Injection Date: 2021-03-25 09:08 Calculation Date: 2021-03-25 09:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSR Bus Address : 44
Instrument : Lotus AMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\ms\data\2021\mar_21\2021-03-25 09-08-15 n2 blank 01205.inj 2 - master spacmd 25.3 3 ml loop 05-05-20_TCDrange5 - copy-run
Run File : C:\bruker\ms\data\2021\mar_21\2021-03-25 09-08-15 n2 blank 01205.inj 2 - master spacmd 25.3 3 ml loop 05-05-20_TCDrange5 - copy-run
Method File : C:\bruker\ms\methods\master\SOACMD 25.3 3 ml loop 05-05-20_TCDrange5 - Copy.mn
Sample ID : N2 blank 01205

Injection Date: 2021-03-25 09:08 Calculation Date: 2021-03-25 09:28
Operator : Douglas W. Detector Type: 4XX-GC (1000 Volts)
Workstation: BSKTOP-6VLSB Bus Address : 44
Measurement: Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (Counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 0.07 | 5.360 | -0.000 | 115 | BV | 6.4 | |
| 2 | Carbon Monox | 0.38 | 6.180 | 0.315 | 1001 | VV | 23.8 | |
| 3 | NMEOC | 0.08 | 16.732 | -0.447 | 1718 | BB | 43.8 | |
| Totals: | | | | | 0.73 | | 2834 | |

Total Unidentified Counts : 3869 counts

Detected Peaks: 16 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 19 microVolts

Manual injection

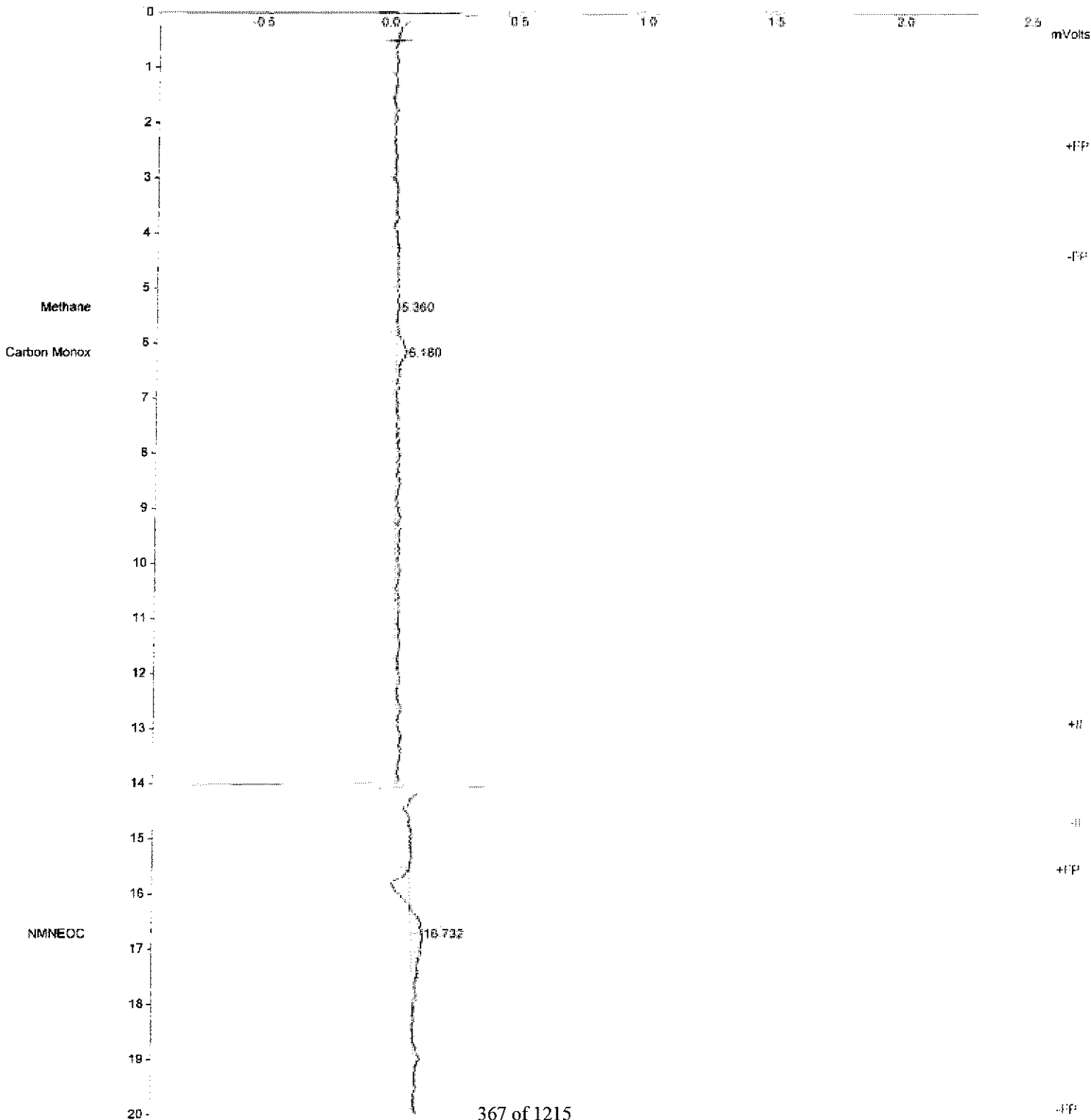
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 09-08-15 n2 blank 01205 in; 2 - master scan; 25.3 ml Loop 05-05-20_tcdrange5 - copy.run
Method File : C:\Bruker\SW\methods\Master SQACMD 25.3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 blank 01205

Injection Date: 2021-03-25 09:06 Calculation Date: 2021-03-25 09:28

Operator : Douglass W. Detector Type: 4EX-GC (1000 Volts)
Workstation: DESKTOP-6VLSA Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukers\data\2021\msr_21\2021-03-25 10-27-18 5 ppm mix inj 2 - master sqamcd 25.3 . ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\brukers\method\Master_SQAMCD 25.3 . ml loop 05-05-20_tcdrange5 - copy.mch
Sample ID : 5 ppm mix

Injection Date: 2021-03-25 10:27 Calculation Date: 2021-03-25 10:47
Operator : Douglass W.
Workstation: DESKTOP-GVLSH
Instrument : Locus N90C
Channel : FID

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sec. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0000 | 2.499 | -0.014 | 23921 | PV | 21.0 | |
| 2 | Carbon Dioxide | 5.0434 | 3.772 | 0.332 | 46368 | VP | 16.7 | |
| 3 | Ethane | 4.6504 | 7.499 | 0.123 | 43900 | VP | 26.3 | |
| Totals: | | 9.6938 | 0.441 | | 114189 | | | |

Total Unidentified Counts : 5587 counts

Detected Peaks: 99 Rejected Peaks: 94 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 3 microVolts - monitored before this run

Manual Injection

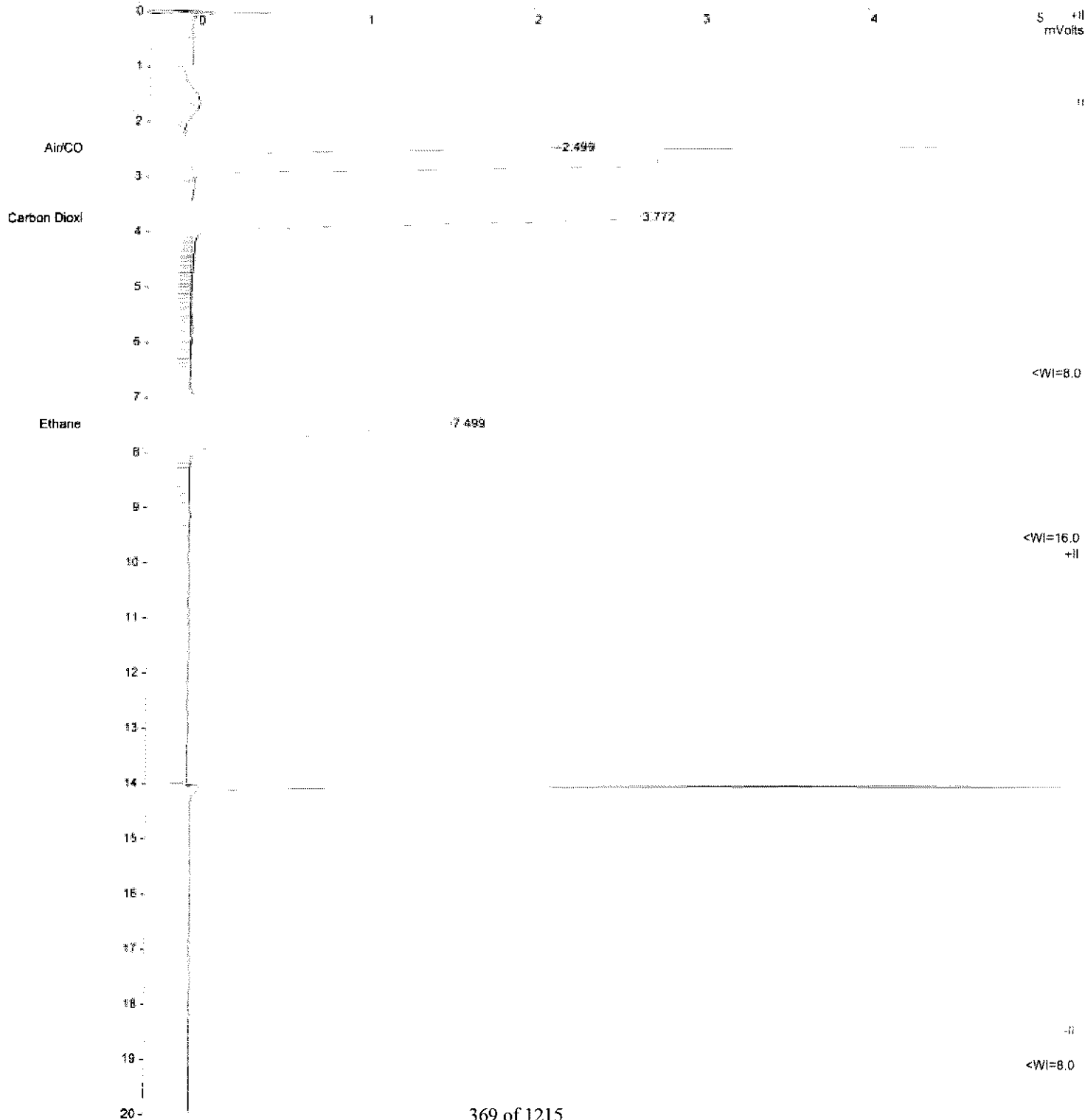
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 10-27-18 5 ppm mix inj 3 - master sqagmd 25.3 3 ml Loop 05-05-20_todrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_TODrange5 - Copy.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-25 10:27 Calculation Date: 2021-03-25 10:47

Operator : Douglass W. Detector Type: 4XX-GC (1050 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus WOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIOM Version 8.0.1 ** 02057-3701-ABL-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.300 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\msd\data\2021\msd_21\2021-03-25 10-27-18 5 ppm mix inj 3 - master sqajmd 25.3 3 mi loop 24-05-20_tcdrange3 - copy.run
Method File : 2021-03-30 15-27-04 & 027 - 011.m inj 1 - master sqajmd 25.3 3 mi loop 24-05-20_tcdrange3 - copy-middle.mth
Sample ID : 5 ppm mix

Injection Data: 2021-03-25 10:27 Calculation Date: 2021-04-06 13:18
Operator : Douglas W.
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Instrument : DESKTOP60LSB
Sample Rate : 5.00 Hz
Channel : Middle w/ FID
Run Time : 20.000 min

** MSMS 8.0.1 for SCIION Version: 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|-------------|---------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 5.27 | 5.437 | 0.077 | 8497 | RV | 16.4 | |
| 2 | NONOX Monox | 5.57 | 6.462 | 0.297 | 9643 | VB | 21.2 | |
| 3 | NONOX | 7.76 | 16.035 | -1.144 | 156500 | SB | 26.5 | |
| Totals: | | | 19.160 | -0.770 | 175040 | | | |

Total Unidentified Counts : 3678 counts

Detected Peaks: 18 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 12 microVolts

Manual Injection

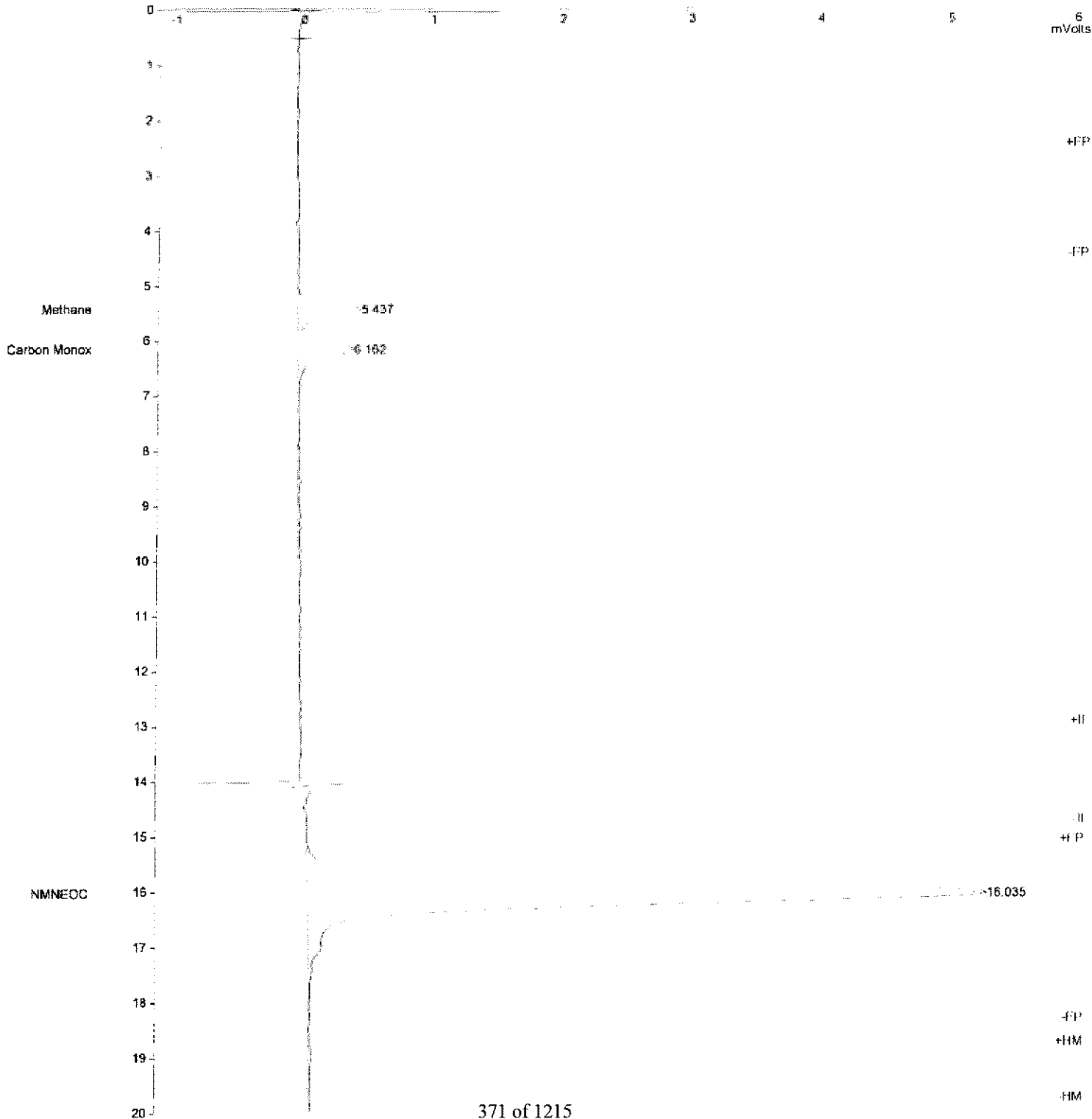
Title :
Run File : c:\bruker\sw\data\2021\mar_21\2021-03-25 10-27-18 5 ppm mix inj 3 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : 2021-03-30 15-27-04 a 027 - 011 a inj 1 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.mth
Sample ID : 5 ppm mix

Injection Date: 2021-03-25 10:27 Calculation Date: 2021-04-06 13:18

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.C.1 for SCIEN Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\ms\data\2021\Mar_21\2021-03-25 11-20-01 SYSTEM blank inj 2 - master seqcmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\ms\methods\Master_SEQCMD 25.3 3 ml loop 05-05-20_tcdrange5 - Copy.mn
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:40
Operator : Daughless M.
Workstation: DESKTOP-6VLS5
Instrument : Perus NWDc
Channel : FID

** MMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ARI-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.000 | 2.552 | 0.039 | 3321 | B3 | 0.0 | |
| 2 | Carbon Dioxide | 0.0480 | 3.667 | 0.227 | 411 | B3 | 0.0 | |
| 3 | Ethane | | 7.376 | | | B3 | 0.0 | H |
| Totals: | | 0.0480 | | 0.266 | 3762 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 1468 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual Injection

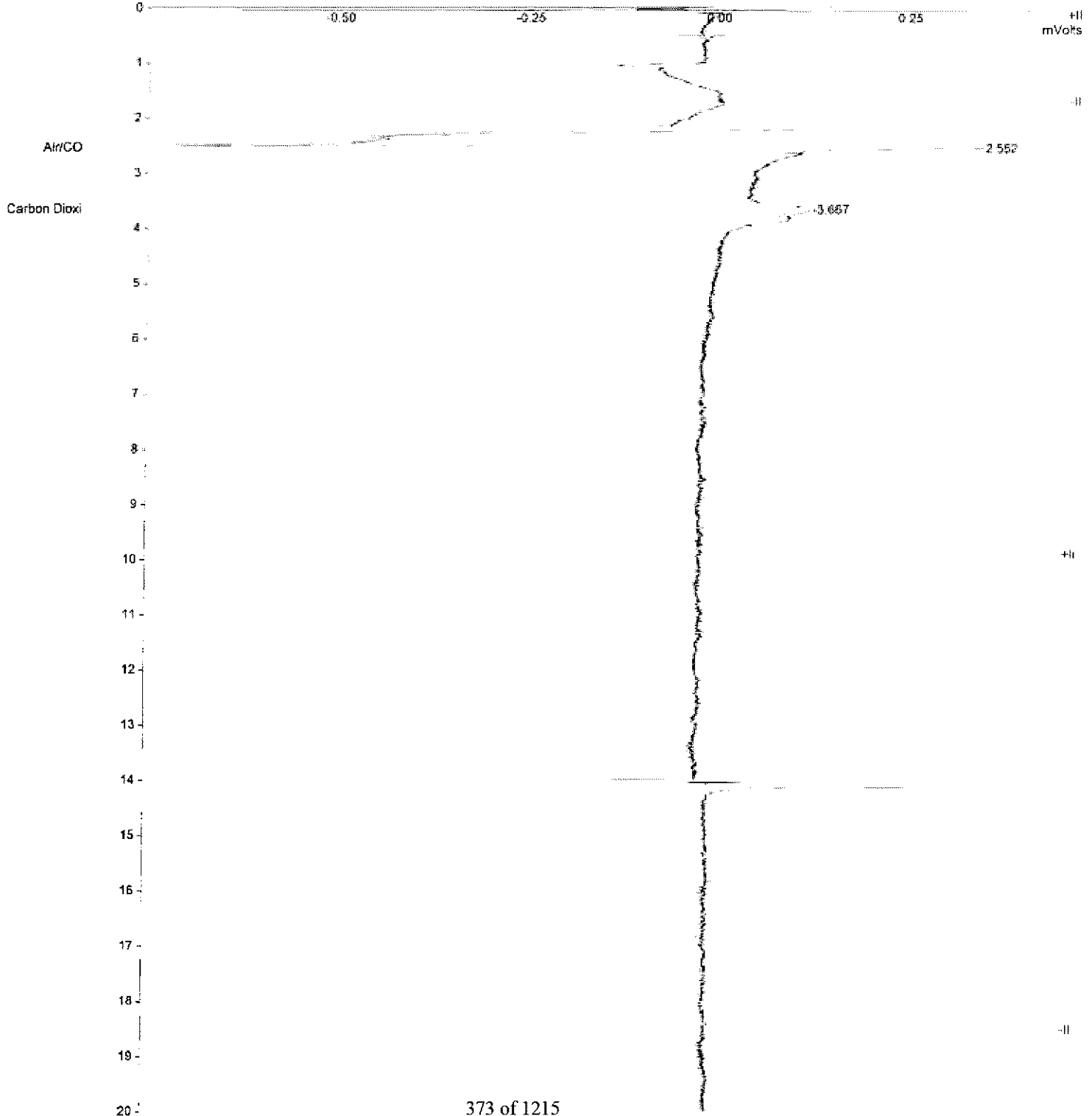
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 11-20-01 system blank in 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdranges - copy.run
Method File : C:\Bruker\MS\methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_TCDranges - Copy.mth
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:40

Operator : Douglass W. Detector Type: 4XY-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\ms\data\2021\mar_21\2021-03-25 11-20-01 system blank inj 1 - master standard 25.3 3 ml loop 05-05-20...CDranges - copy.mth
Method File : C:\bruker\ms\methoda\master_SQMCD 25.3 3 ml Loop 05-05-20...CDranges - copy.mth
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:40
Operator : Douglas W.
Detector Type: 4X-CC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Channel : Middle - FID
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02087-3701-ABI-413C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (Counts) | Sep. Code | Width L/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 2.80 | 5.160 | 0.299 | 4946 | BB | 23.2 | M |
| 2 | Carbon Monox | 3.01 | 15.516 | -1.653 | 162 | RB | 0.0 | |
| Totals: | | 2.91 | | -1.364 | 5008 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 18342 counts

Detected Peaks: 10 Rejected Peaks: 0 Identified Peaks: 3

Multiplexer: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 13 microVolts - fixed value

Noise (monitored before this run): 6 microVolts

Manual Injection

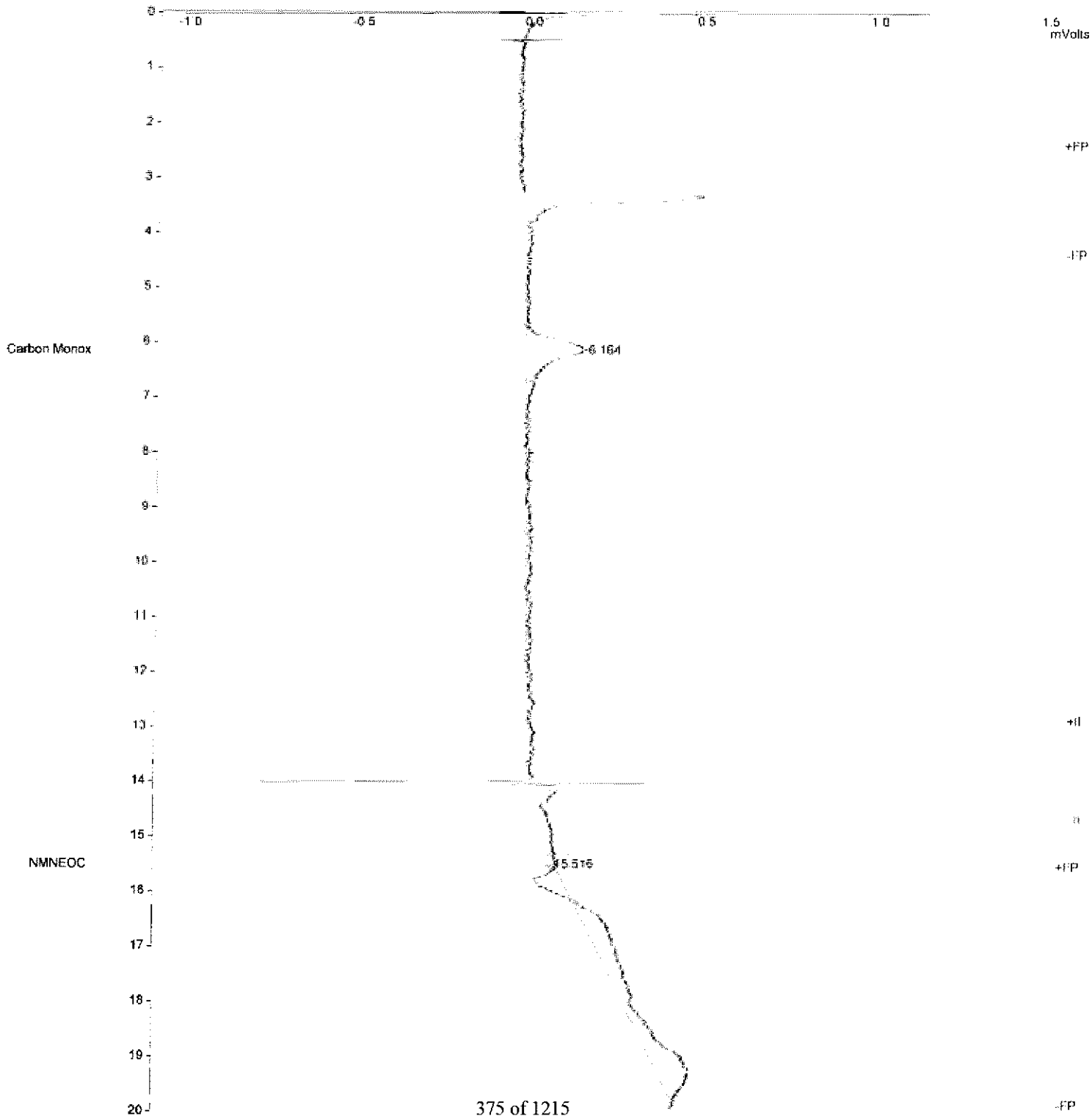
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-25 11-20-01 system blank in) 2 - master sqagmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\brukerWS\methods\Master SQAGMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : system blank

Injection Date: 2021-03-25 11:20 Calculation Date: 2021-03-25 11:40

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\work\data\2021\mar_21\2021-03-25 24-11-31_2000 ppm mix inj_2 * master sqwmd 25.3 ml loop 05-05-20_redrange5 - copy.run
Method File : C:\bruker\work\methods\master_sqwmd 25.3 ml loop 05-05-20_redrange5 * Copy.mth
Sample ID : 2000 ppm mix

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-03-25 23:31

Operator : Douglass W.
Workstation: DESKTOP-6YL5B
Instrument : Lotus NMOC
Channel : Front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS B.0.1 for SCION Version B.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Code |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|-------------|
| 1 | Air/CO | 0.0000 | 2.499 | -0.014 | 11861968 | BY | 21.8 | |
| 2 | Carbon Diox1 | 1868.5909 | 3.778 | 0.338 | 18074282 | VB | 16.2 | |
| 3 | Ethane | 2039.7697 | 7.478 | 0.192 | 18236122 | BB | 26.3 | |
| Totals: | | 4058.3585 | | 0.426 | 49143372 | | | |

Total Unidentified Counts : 22998416 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 10 microVolts - monitored before this run

Manual injection

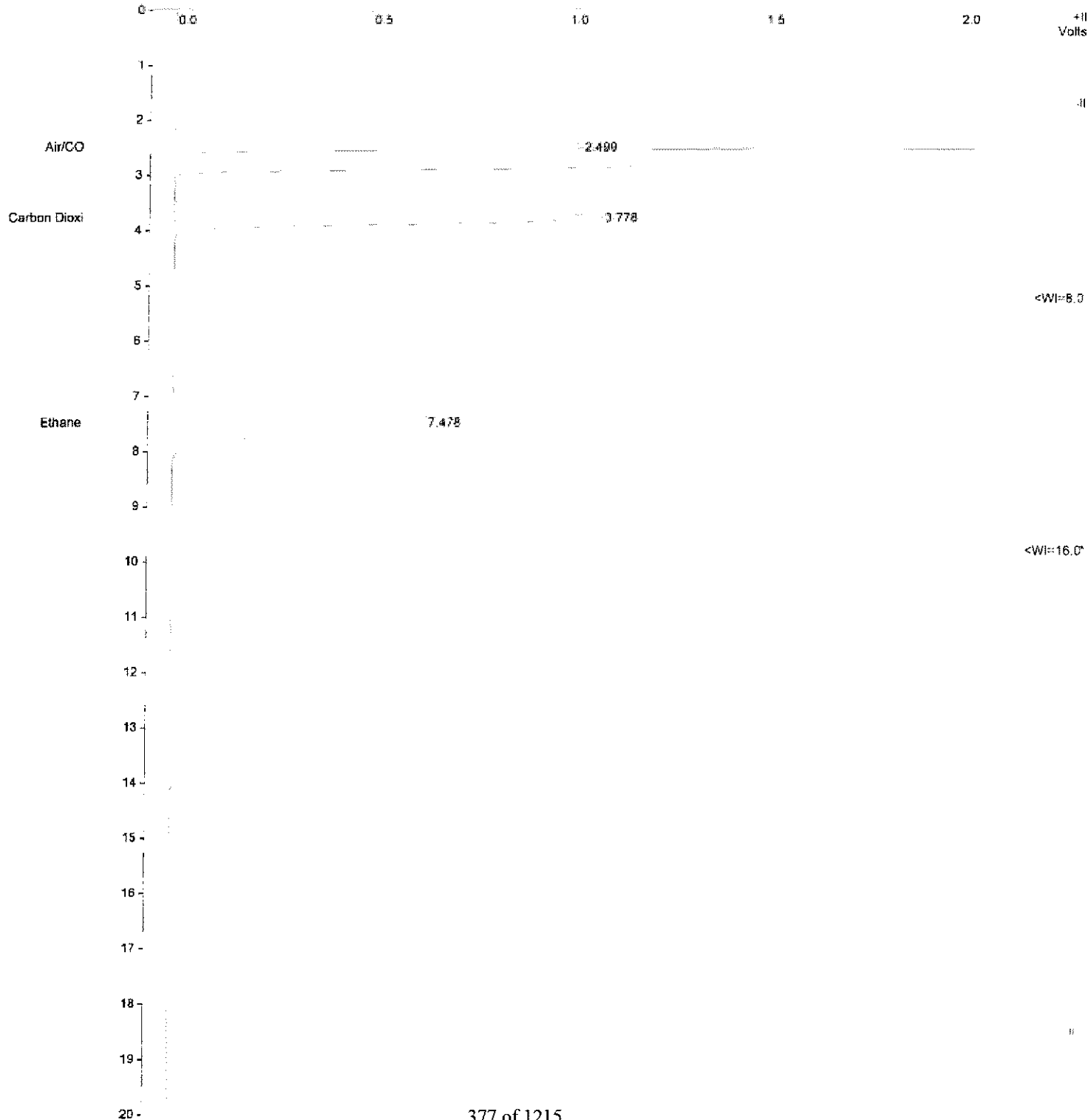
Title :
 Run File : c:\brukerws\data\2021\mar_21\2021-03-25 23-11-31 2000 ppm mix inj 2 - master sqacmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : C:\BrukerWS\methods\Master SQACMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
 Sample ID : 2000 ppm mix

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-03-25 23:31

Operator : Douglass W. Detector Type: 4XN-GC (1000 Volts)
 Workstation: DESKTOP-6VL58 Bus Address : 44
 Instrument : Lotus NMC Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS B.C.1 for SCIION Version 3.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 9 Zero Offset = 28
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title :
Run File : c:\brukerwa\data\2021\mai_21\2021-03-25 23-11-31 2000 ppm.mlx.inj 2 - master.sqcmd 25.3 3 ml loop 05-05-20_tccdrange5 . copy.run
Method File : 2021-03-30 15-27-04 a 027 -- 011 a.inj 1 - master.sqcmd 25.3 3 ml loop 05-05-20_tccdrange5 - copy-middle.e.mth
Sample ID : 2000 ppm mix

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-04-06 13:19

Operator : Deucless W.
Workstation : DESKTOP-VLISE
Instrument : LUNA NMO4
Channel : Middle FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3761-AB1-415C **

Run Mode : Analysis - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 2007.96 | 5.440 | 0.980 | 3239937 | VV | 16.3 | |
| 2 | Carbon Monox | 1997.98 | 6.152 | 0.287 | 3277201 | VB | 20.4 | |
| 3 | NMNOCC | 2627.51 | 16.578 | -0.601 | 40986528 | BB | 30.8 | |
| Totals: | | 5929.45 | | -0.234 | 47503666 | | | |

Total Unidentified Counts : 1900 counts

Detected Peaks: 11 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSR: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 29 microVolts

Manual injection

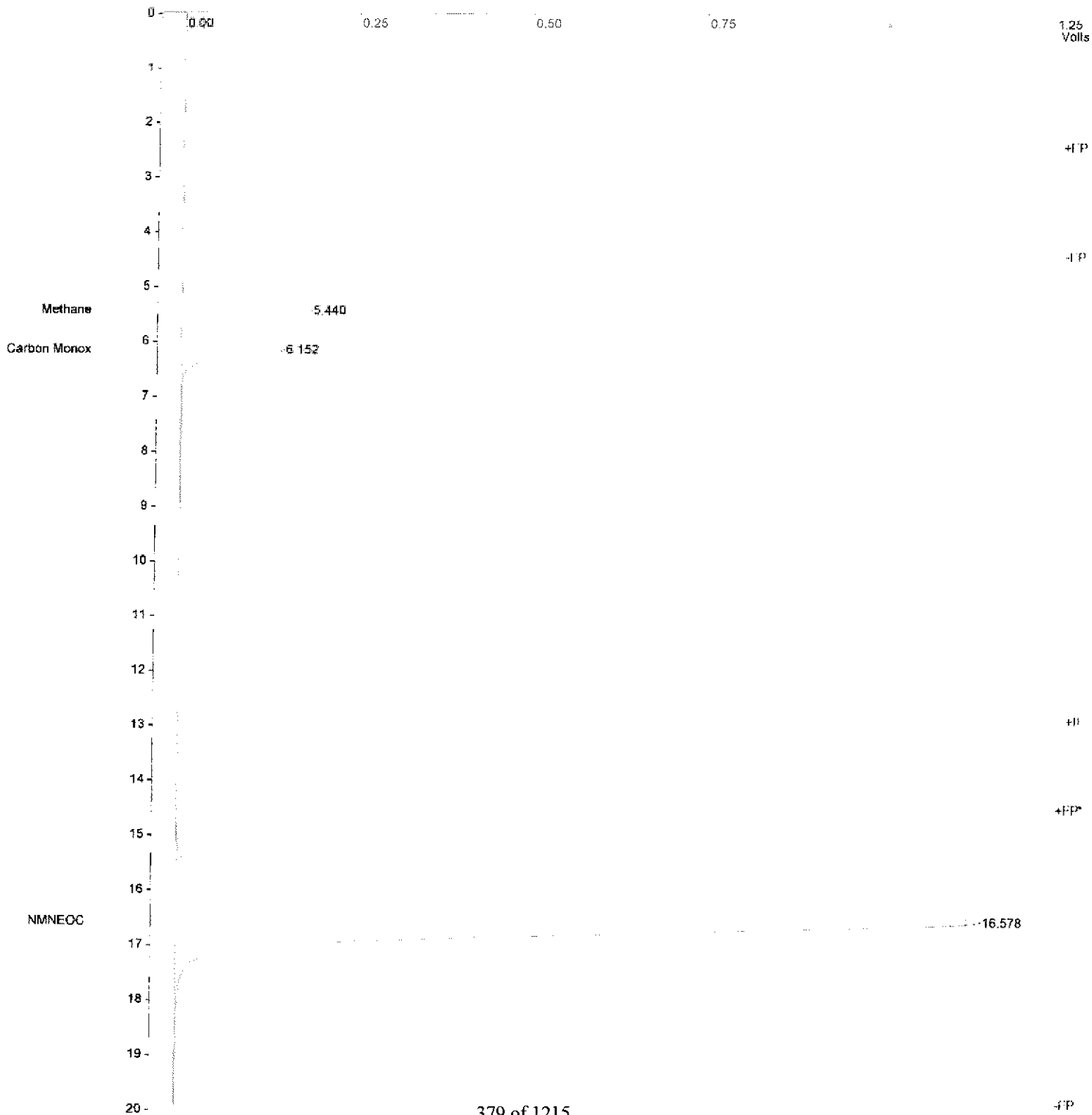
Title :
 Run File : c:\brukerwa\data\2021\mar_21\2021-03-25 23-11-31 2000 ppm mix inj 2 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
 Method File : 2021-03-30 15-27-04 a 027 - C11 a inj 1 - master sqagnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy-middle.txt
 Sample ID : 2000 ppm mix

Injection Date: 2021-03-25 23:11 Calculation Date: 2021-04-06 13:19

Operator : Douglass W. Detector Type: AXX-GC (1000 Volts)
 Workstation: DESKTOP-0VL5B Bus Address : 44
 Instrument : Lotus MKCC Sample Rate : 5.00 Hz
 Channel : Middle = FID Run Time : 26.000 min

** MSWS 0.0.1 for SCIOM Version 8.0.1 ** 02057-3701-ABL-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\brukerw\data\2021\mar_21\2021-03-26 08-04-25 32_black_8107_iri_2_master_sqagmd 25.3 3 ml loop 05-05-20_7CDranges - copy.run
Run File : C:\brukerw\methods\Master_SQAQMD 25.3 3 ml Loop 05-05-20_7CDranges - copy.mnh
Method File : C:\brukerw\methods\Master_SQAQMD 25.3 3 ml Loop 05-05-20_7CDranges - copy.mnh
Sample ID : NC Black A107

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 00:24

Operator : Douglass W.
Workstation: DESKTOP-EVLSB
Instrument : Lotus NMOC
Channel : front - FID

Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|---------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 0.0300 | 2.473 | -0.040 | 589 | VP | 0.0 | |
| 2 | Carbon Dioxid | 0.0372 | 3.691 | 0.251 | 342 | BY | 9.0 | M |
| 3 | Ethane | | 7.376 | | | | | |
| Totals: | | 0.0372 | | 0.211 | 931 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 1487 counts

Detected Peaks: 15 Rejected Peaks: 9 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual injection

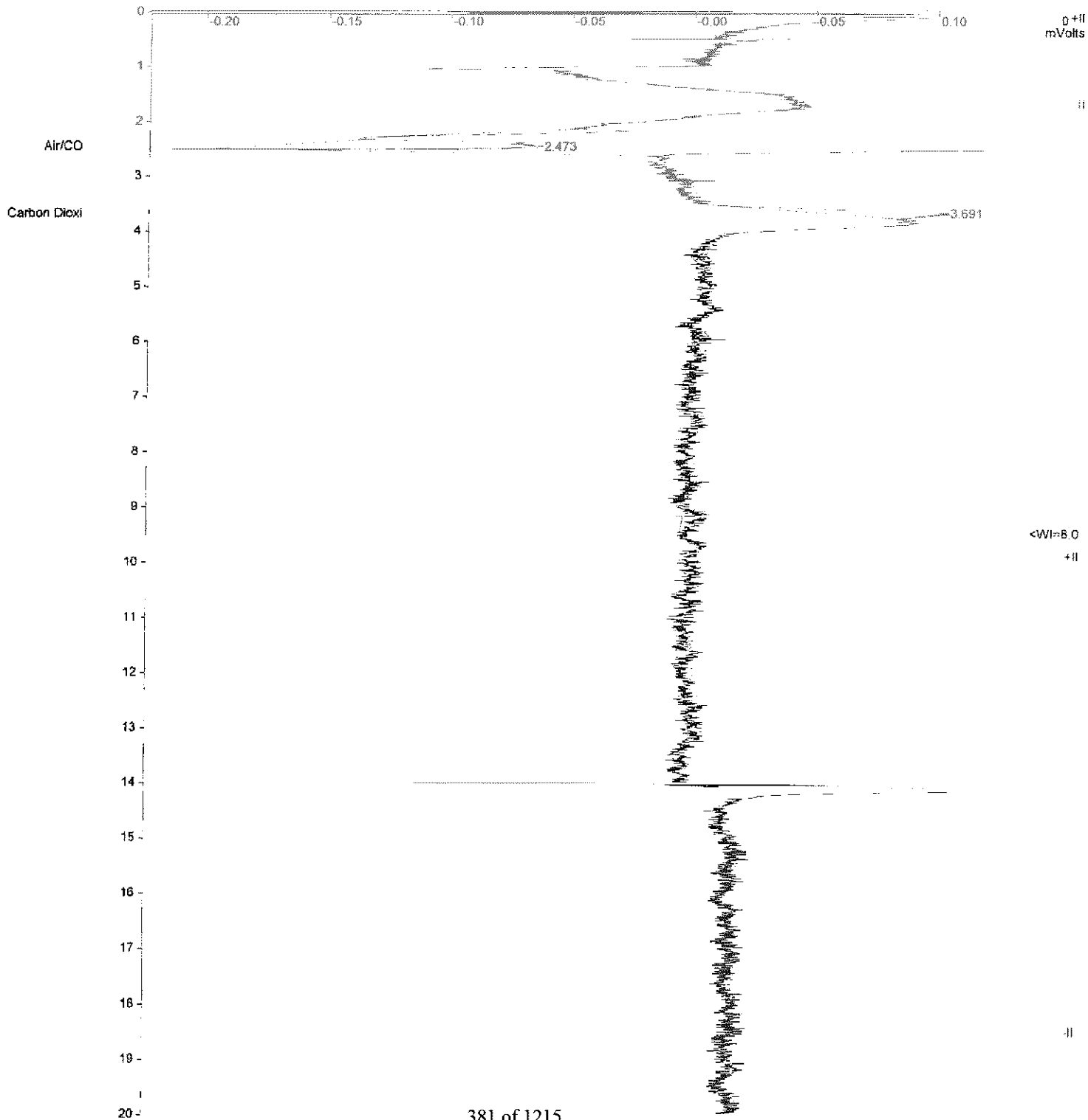
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-26 00-04-25 n2 blank ai37 inj 2 - master sqamnd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\bruker\MS\methods\Master SQAMND 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 Blank AI37

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 00:24

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus RMGC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIOM Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerw\data\2021\mar_21\2021-03-26 00-04-25 02 blank 8107 inj 2 : master_sqadmd 25.3 ml loop 05-05-20...rcDranges5 - copy.run
Method File : c:\brukerw\methada\Master_SQAQMD 25.3 ml loop 05-05-20...rcDranges5 - copy.mch
Sample ID : N2 blank 8107

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 00:24

Operator : Douglass W.
Workstation: DESKTOP-6VLS8
Instrument : Lotus NMOC
Channels : Middle + FID
Detector Type: 4XX-GC (1090 v5.1b)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 9.0.1 for SCIION Version 9.0.1 ** 02057-3701-AB1-415C **

Run Mode : Analyza - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard

| Peak No. | Peak Name | Result (ppmC) | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|---------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 0.50 | 5.423 | 0.063 | 869 | BV | 15.5 | |
| 2 | Carbon Monox | 0.87 | 6.182 | 0.317 | 1564 | VB | 21.0 | |
| 3 | N2/NEOC | 17.179 | | | | | | M |
| Totals: | | 1.37 | 0.580 | | 2313 | | | |

Status Codes:
M - Missing peak

Total Unidentified Counts : 1876 counts

Detected Peaks: 12 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSS: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 13 microVolts

Manual injection

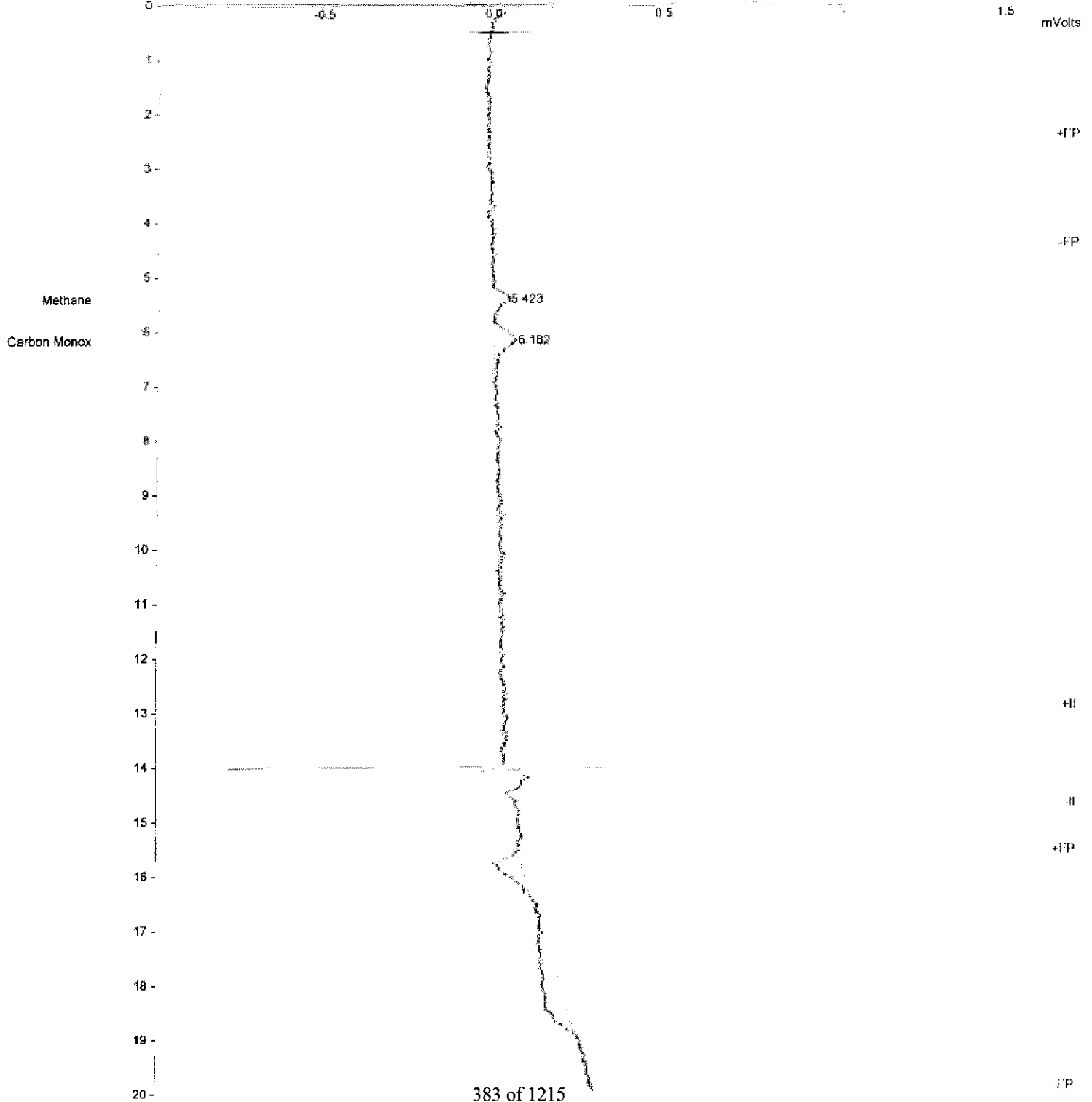
Title :
Run File : c:\brukerws\data\2021\mar_21\2021-03-26 00-04-25 n2 blank a107 inj 2 - master sqaqmd 25.3 3 ml loop 05-05-20_tcdrange5 - copy.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 05-05-20_TCDrange5 - Copy.mth
Sample ID : N2 Blank A107

Injection Date: 2021-03-26 00:04 Calculation Date: 2021-03-26 06:24

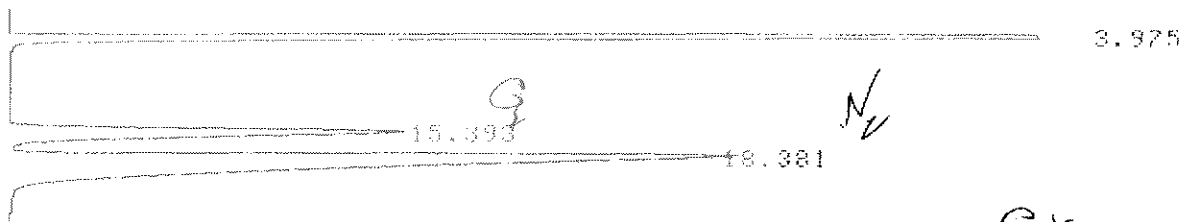
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIOW Version 5.0.1 ** 02857-3761-AD1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



3/10



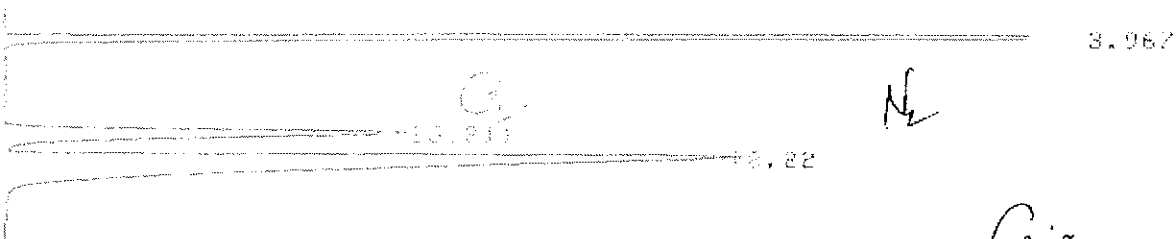
CHROMATOGRAM 1 MEMORIZED

Ar

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 726

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.975 | 7646222 | | | 35.7369 | |
| 2 | 15.393 | 3416768 | | | 15.9693 | |
| 3 | 18.381 | 10332882 | V | | 48.2938 | |
| TOTAL | | 21395870 | | | 100 | |



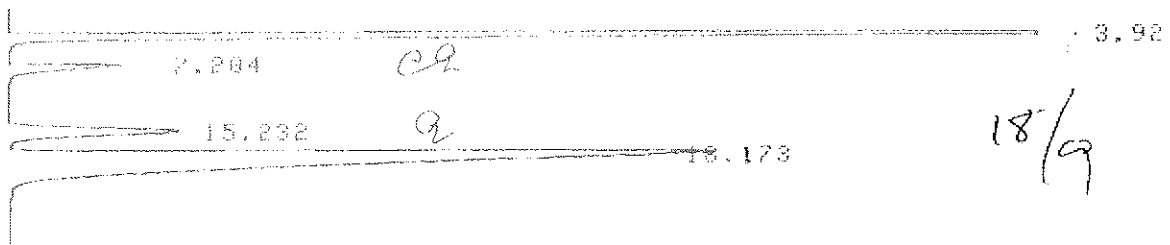
CHROMATOGRAM 1 MEMORIZED

Ar

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 727

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.967 | 7709693 | | | 36.0707 | |
| 2 | 15.311 | 3410730 | | | 15.9575 | |
| 3 | 18.22 | 10253436 | V | | 47.9710 | |
| TOTAL | | 21373858 | | | 100 | |

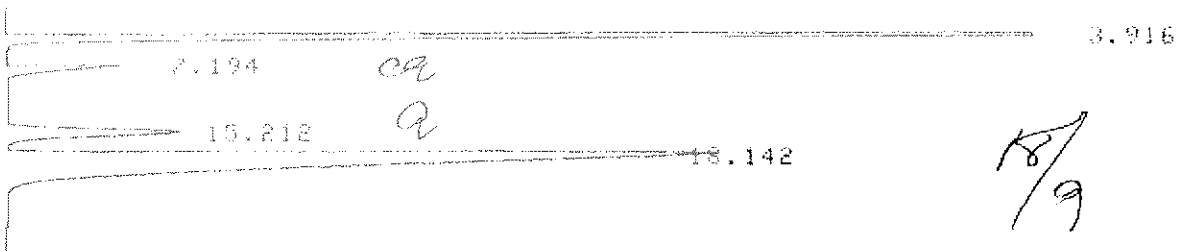


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 728

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.92 | 6322305 | | | 35.0938 | |
| 2 | 7.204 | 687024 | | | 3.818 | |
| 3 | 15.232 | 1429570 | | | 7.9352 | |
| 4 | 18.173 | 9575746 | V | | 53.153 | |
| TOTAL | | 18015444 | | | 100 | |

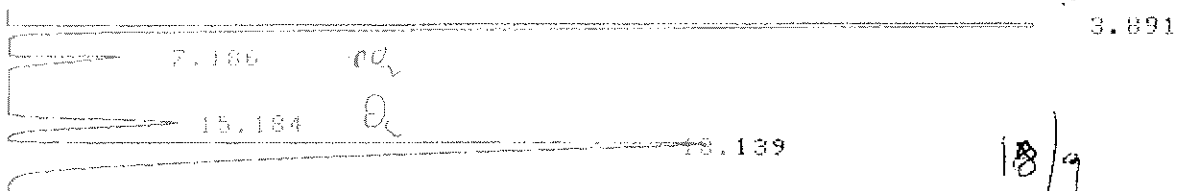


CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC

CHANNEL NO 1 FILE 0
 SAMPLE NO 0 METHOD 41
 REPORT NO 729

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.916 | 6356957 | | | 35.0008 | |
| 2 | 7.194 | 692163 | | | 3.811 | |
| 3 | 15.212 | 1446294 | | | 7.9632 | |
| 4 | 18.142 | 9666884 | V | | 53.225 | |
| TOTAL | | 18162296 | | | 100 | |



CHROMATOGRAM 1 MEMORIZED

C-R5A CHROMATOPAC
 CHANNEL NO 1
 SAMPLE NO 0
 REPORT NO 260

FILE 0
 METHOD 41

| PKNO | TIME | AREA | MK | IDNO | CONC | NAME |
|-------|--------|----------|----|------|---------|------|
| 1 | 3.891 | 6318599 | | | 35.3866 | |
| 2 | 7.186 | 684960 | | | 3.836 | |
| 3 | 15.184 | 1410638 | | | 7.9001 | |
| 4 | 18.139 | 9441725 | V | | 52.8773 | |
| TOTAL | | 17855920 | | | 100 | |

TOC ANALYSIS
on the TRAPS

TOC Analysis on the frap

| Date | Sample No. | Vial No. | Sample ID | Sample volume, ml | | DF | Concentration, ppmC | | | COV % |
|------|------------|----------|------------------|-------------------|-------|----|---------------------|-------|---|-------------|
| | | | | Initial | Final | | TC | IC | TC _{gas} - IC _{gas} = TOC | |
| 5/22 | 1 | ✓ | Blank | - | - | 1 | 0.00 | -0.25 | 0.00 | 0.00 |
| | | | | - | - | | 0.00 | -0.25 | -0.25 | 0.00 |
| | | | | - | - | | 0.00 | -0.25 | = 0.250 | |
| | 2 | ✓ | IS _{HL} | - | - | 1 | 8.162 | 7.170 | 8.717 | 2.64 |
| | | | | - | - | | 8.577 | 7.341 | 7.386 | 0.45 |
| | | | | - | - | | 8.512 | 7.347 | = - | |
| | 3 | ✓ | KSHL | - | - | 1 | 13.18 | -0.25 | 13.05 | 0.91 |
| | | | | - | - | | 13.02 | -0.25 | -0.25 | 0.00 |
| | | | | - | - | | 12.94 | -0.25 | = 13.30 | |
| | 4 | ✓ | LCS | - | - | 1 | 4.923 | -0.25 | 4.821 | 4.821 ppm |
| | | | | - | - | | 4.760 | -0.25 | -0.25 | 1.05% |
| | | | | - | - | | 4.779 | -0.25 | = 5.071 | 0.00% |
| | 5 | ✓ | Blank | - | - | 1 | 0.00 | -0.25 | 0.00 | 0.00% |
| | | | | - | - | | 0.00 | -0.25 | -0.25 | 0.00 |
| | | | | - | - | | 0.00 | -0.25 | = 0.250 | |
| | 6 | 16 | AGCS | 2 | 4 | 2 | 21.04 | 1.784 | 21.23 | 1.80% |
| | | | -022A | 2 | 4 | 2 | 20.98 | 1.755 | - 1.779 | 0.00% 1.84% |
| | | | | 2 | 4 | 2 | 21.67 | 1.792 | = 19.45 | |
| | 7 | 17 | -022B | 2 | 4 | 2 | 20.03 | 2.614 | 20.75 | 1.73% |
| | | | | 2 | 4 | 2 | 20.29 | 2.693 | - 2.658 | 1.40% |
| | | | | 2 | 4 | 2 | 20.72 | 2.669 | = 17.692 | |
| | 8 | 1 | A027 | 2 | 4 | 2 | 1.832 | 1.041 | 1.748 | 5.16% |
| | | | -042A | 2 | 4 | 2 | 1.758 | 1.026 | - 9.99 | 4.76% |
| | | | | 2 | 4 | 2 | 1.452 | 0.931 | = 0.749 | |
| | 9 | 2 | -042F | 2 | 4 | 2 | 2.365 | 0.53 | 2.285 | 3.04% |
| | | | | 2 | 4 | 2 | 2.236 | 0.772 | - 0.964 | 0.78% |
| | | | | 2 | 4 | 2 | 2.253 | 0.65 | = 1.321 | |
| | 10 | 11 | -067A | 2 | 4 | 2 | 8.252 | 1.692 | 8.721 | 0.43% |
| | | | | 2 | 4 | 2 | 8.187 | 1.702 | - 1.701 | 0.43% |
| | | | | 2 | 4 | 2 | 8.719 | 1.707 | = 6.520 | |
| | 11 | 12 | -067B | 2 | 4 | 2 | 9.257 | 2.241 | 9.258 | 0.28% |
| | | | | 2 | 4 | 2 | 7.233 | 2.287 | - 2.266 | 0.24% |
| | | | | 2 | 4 | 2 | 7.285 | 2.268 | = 6.992 | |
| 12 | | | LCS | - | - | 1 | 25.72 | 14.81 | 25.60 | 0.20% |
| | | | | - | - | 1 | 25.24 | 14.17 | - 0.46 | 0.33% |

TOC Analysis on the Trap

| Date | Sample No. | Vial No. | Sample ID | Sample volume, ml | | DF | Concentration, ppmC | | | COV % |
|------|------------|----------|---------------|-------------------|-------|----|---------------------|-------|---|-------|
| | | | | Initial | Final | | TC | IC | TC _{avg} - IC _{avg} = TOC | |
| 3/23 | 1 | | Blank | - | - | 1 | 0.00 | -0.25 | 0.16 | 0.00% |
| | | | | | | | 0.00 | -0.25 | -0.25 | 0.00% |
| | | | | | | | 0.00 | -0.25 | = 0.250 | |
| | 2 | | KSA | - | - | 1 | 12.35 | -0.25 | 12.87 | 3.92% |
| | | | | | | | 12.90 | -0.25 | -0.25 | 0.00% |
| | | | | | | | 12.36 | -0.25 | = 13.12 | |
| | 3 | | ICSH | - | - | 1 | 8.684 | 7.903 | 8.667 | 1.73 |
| | | | | | | | 8.812 | 7.727 | -7.852 | 1.52 |
| | | | | | | | 8.212 | 7.924 | = 8.17 | |
| | 4 | | LCS | - | - | 1 | 4.842 | 0.04 | 4.687 | 3.25% |
| | | | | | | | 4.536 | -0.01 | -0.01 | 6.72% |
| | | | | | | | 4.687 | -0.02 | = 4.699 | |
| | 5 | | Blank | - | - | 1 | 0.00 | -0.25 | 0.16 | 0.00% |
| | | | | | | | 0.00 | -0.25 | -0.25 | 0.00% |
| | | | | | | | 0.00 | -0.25 | = 0.250 | |
| | 6 | 7 | A027 -082A | 2 | 4 | 2 | 4.478 | 2.365 | 4.325 | 9.00 |
| | | | | | | | 4.189 | 2.422 | -2.074 | 1.07 |
| | | | | | | | 4.339 | 2.395 | = 1.931 | |
| | 7 | 8 | -082B | 2 | 4 | 2 | 4.728 | 2.570 | 5.127 | 5.27% |
| | | | | | | | 6.555 | 2.380 | -2.366 | 8.17% |
| | | | | | | | 5.197 | 2.142 | = 2.761 | |
| | 8 | | LCS | - | - | 1 | 12.75 | -0.04 | 12.75 | 1.21% |
| | | | | | | | 12.72 | 0.04 | -0.01 | 12.2% |
| | | | | | | | 12.77 | 0.00 | = 12.70 | |
| | 9 | | | - | - | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | 10 | | | - | - | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | 11 | | | - | - | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

TANK PREPARATION

TANK PREPARATIONS

Client: AAA
 Project No.: 21-0883
 Unit Tested: Outlet
 Sampling Date: 17-Mar-21
 Date pressurized: 22-Mar-21

Lab No.: A 027

| Tank ID | Sample ID | Pre-test pressure mm Hg | | Post-test pressure mm Hg | Final Pressure | Comments |
|---------|---------------|----------------------------|------|-----------------------------|----------------|----------|
| | | 1 | 2 | | | |
| 54083 | A 027 - 041 A | -758 | -758 | -164 * | 184 | Run #1 A |
| A111 | A 027 - 041 B | -758 | -758 | -116 * | 180 | Run #1 B |
| 54116 | A 027 - 051 A | -758 | -758 | -186 * | 172 | Run #2 A |
| S050 | A 027 - 051 B | -758 | -758 | -142 * | 186 | Run #2 B |
| A127 | A 027 - 061 A | -758 | -758 | -120 * | 170 | Run #3 A |
| 777 | A 027 - 061 B | -758 | -758 | -82 * | 182 | Run #3 B |

* - Post -test Pressure is less then 200 mm Hg.

CALIBRATIONS

24-Jan-20
Current

| | 2 ppm mix | | | | 5 ppm mix | | | | 20 ppm mix | | | | Ave | RSD | | |
|-----------------|-----------------|--------|--------|----------|-----------|---------|--------|---------|------------|----------|---------|--------|--------|----------|----------|------|
| | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | | | area 2 | RF 1 |
| Carbon Monoxide | 2.010 | 4192 | 4570 | 4.79E-04 | 4.40E-04 | 4.999 | 9120 | 9293 | 5.48E-04 | 5.38E-04 | 20.32 | 34579 | 35524 | 5.88E-04 | 5.72E-04 | |
| Methane | 2.095 | 4688 | 5152 | 4.47E-04 | 4.07E-04 | 4.782 | 9007 | 9294 | 5.31E-04 | 5.15E-04 | 19.47 | 31671 | 32448 | 6.15E-04 | 6.00E-04 | |
| Carbon Dioxide | 1.880 | 24809 | 25118 | 7.58E-05 | 7.48E-05 | 4.832 | 47382 | 46313 | 1.02E-04 | 1.04E-04 | 20.39 | 179236 | 179056 | 1.14E-04 | 1.14E-04 | |
| Ethane | 2.170 | 17881 | 18052 | 1.21E-04 | 1.20E-04 | 4.986 | 43638 | 43010 | 1.14E-04 | 1.16E-04 | 21.08 | 176965 | 177554 | 1.19E-04 | 1.19E-04 | |
| TGNMO | 2.299 | 45794 | 45944 | 5.02E-05 | 5.00E-05 | 7.500 | 131153 | 130291 | 5.72E-05 | 5.76E-05 | 32.10 | 643682 | 640410 | 4.99E-05 | 5.01E-05 | |
| Average | 19473 | 19767 | 19767 | 2.35E-04 | 2.18E-04 | Average | 48100 | 47680.2 | 2.70E-04 | 2.66E-04 | Average | 213227 | 212998 | 2.97E-04 | 2.91E-04 | |
| RSD% | | | | 2.27E-04 | 13.8 | | | | 2.68E-04 | 2.0 | | | | 2.94E-04 | 11.8 | |
| Average | 2.63E-04 | | | | | | | | | | | | | | | |

| | 100 ppm mix | | | | 1000 ppm mix | | | | 2000 ppm mix | | | | Ave | RSD | | |
|-----------------|-----------------|---------|---------|----------|--------------|---------|----------|-----------|--------------|----------|---------|----------|----------|----------|----------|------|
| | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | area 2 | RF 1 | RF 2 | conc | area 1 | | | area 2 | RF 1 |
| Carbon Monoxide | 100.40 | 167614 | 170386 | 5.99E-04 | 5.89E-04 | 981 | 1700909 | 1708991 | 5.77E-04 | 5.74E-04 | 1986 | 3363251 | 3359567 | 5.91E-04 | 5.91E-04 | |
| Methane | 101.50 | 164466 | 166804 | 6.17E-04 | 6.08E-04 | 993 | 1630589 | 1635501 | 6.09E-04 | 6.07E-04 | 2003 | 3262561 | 3261082 | 6.14E-04 | 6.14E-04 | |
| Carbon Dioxide | 100.10 | 907081 | 912067 | 1.10E-04 | 1.10E-04 | 1036 | 9479276 | 9518837 | 1.09E-04 | 1.09E-04 | 1999 | 18353302 | 18336448 | 1.09E-04 | 1.09E-04 | |
| Ethane | 101.00 | 882252 | 885177 | 1.14E-04 | 1.14E-04 | 994 | 9020471 | 9051689 | 1.10E-04 | 1.10E-04 | 2114 | 18388114 | 18389176 | 1.15E-04 | 1.15E-04 | |
| TGNMO | 101.70 | 2085799 | 2095518 | 4.88E-05 | 4.85E-05 | 993 | 20342462 | 20396076 | 4.88E-05 | 4.87E-05 | 2002 | 40302996 | 39855688 | 4.97E-05 | 5.02E-05 | |
| Average | 841442 | 845990 | 845990 | 2.98E-04 | 2.94E-04 | Average | 8434741 | 8462218.8 | 2.91E-04 | 2.90E-04 | Average | 16734045 | 16640392 | 2.96E-04 | 2.96E-04 | |
| RSD% | | | | 2.96E-04 | -0.7 | | | | 2.90E-04 | 1.3 | | | | 2.96E-04 | 0.6 | |
| Average | 2.94E-04 | | | | | | | | | | | | | | | |

| RSD, % | CO | CH4 | CO2 | C2H6 | NMOC |
|--------|---------|---------|---------|---------|---------|
| 9.772 | 0.99990 | 0.99990 | 0.99995 | 0.99999 | 0.99990 |
| 15.540 | | | | | |
| 17.340 | | | | | |
| 3.340 | | | | | |
| 6.084 | | | | | |

CALS - AVE

- 5.57E-04 CO
- 5.65E-04 CH4
- 1.03E-04 CO2
- 1.16E-04 C2H6
- 5.08E-05 NMOC

Air/CO

Resp. Fact. RSD: 252.60%
Coeff. Det.(r²): 0.008241

External Standard Analysis

Curve Type: Linear

Origin: Force

$$y = +2.850526e+012x$$

Replicates 21

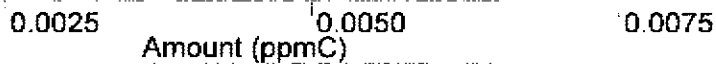
200000000

P
e
500000000

a
k
1000000000

S
500000000

i
z
e



Carbon Dioxide

Resp. Fact. RSD: 17.34%
Coeff. Det.(r²): 0.999906

External Standard Analysis

Curve Type: Quadratic

Origin: Force

$$y = -6.359547e-003x^2 + 9.193849e+003x$$

Replicates 15

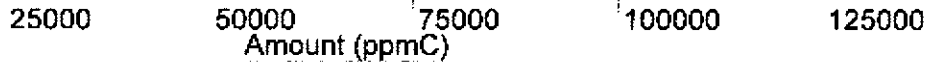
1250000000

P
e
1000000000

a
k
750000000

S
500000000

i
z
e



Ethane

Resp. Fact. RSD: 3.340%
Coeff. Det.(r²): 0.999984

External Standard Analysis

Curve Type: Quadratic

Origin: Force

$$y = -3.491328e-001x^2 + 9.441653e+003x$$

Replicates 98 3

P
e
15000000

a
k
10000000

S
5000000

i
z
e



Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26
 Operator : Douglass W.
 Workstation: DESKTOP-6VH15B
 Instrument : Lotus NMOC
 Channel : Front = FID
 Detector Type: 4XX-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **
 Run Mode : Calibration
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level: 1

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width (sec) | Sep. Code | 1/2 | Status Codes |
|----------|-------------|-----------------|-------------------|---------------|-------------|-----------|-----|--------------|
| 1 | Air/CO | 2.528 | -0.002 | 4596 | VV 2.0 | | | |
| 2 | Carbon Diox | 3.628 | -0.000 | 24809 | RR 16.5 | | | |
| 3 | Ethane | 7.402 | 0.003 | 17881 | RR 25.0 | | | |
| Totals: | | | | 47246 | | | | |

Total Unidentified Counts : 26473 counts
 Detected Peaks: 10 Rejected Peaks: 3 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 9 microVolts - monitored before this run
 Manual Injection

Title : C:\Nobroker\data\2020\Jan_20\2020-01-21_12-04-25_298m.mlx.inj 4 - master sqcmd 25.3 3 ml loop 01-24-20.mth
Run File : C:\Nobroker\data\2020\Jan_20\2020-01-21_12-04-25_298m.mlx.inj 4 - master sqcmd 25.3 3 ml loop 01-24-20.mth
Method File : C:\Nobroker\data\2020\Jan_20\2020-01-21_12-04-25_298m.mlx.inj 4 - master sqcmd 25.3 3 ml loop 01-24-20.mth
Sample ID : 2ppm.mlx

Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26
Operator : Douglass W. Detector Type: 4X-6C (1000 Volts)
Workstation: DESKTOP-6V1L5S Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AH1-415C **
Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 1

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (Counts) | Sec. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.368 | 0.004 | 4688 | VV | 23.1 | |
| 2 | Carbon Monox | 5.935 | -0.002 | 4192 | VB | 29.3 | |
| 3 | NMNEOC | 16.994 | 0.004 | 45794 | BV | 15.2 | |
| Totals: | | | | 0.006 | 54674 | | |

Total Unidentified Counts : 25725 counts
 Detected Peaks: 20 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 22 microVolts
 Manual Injection

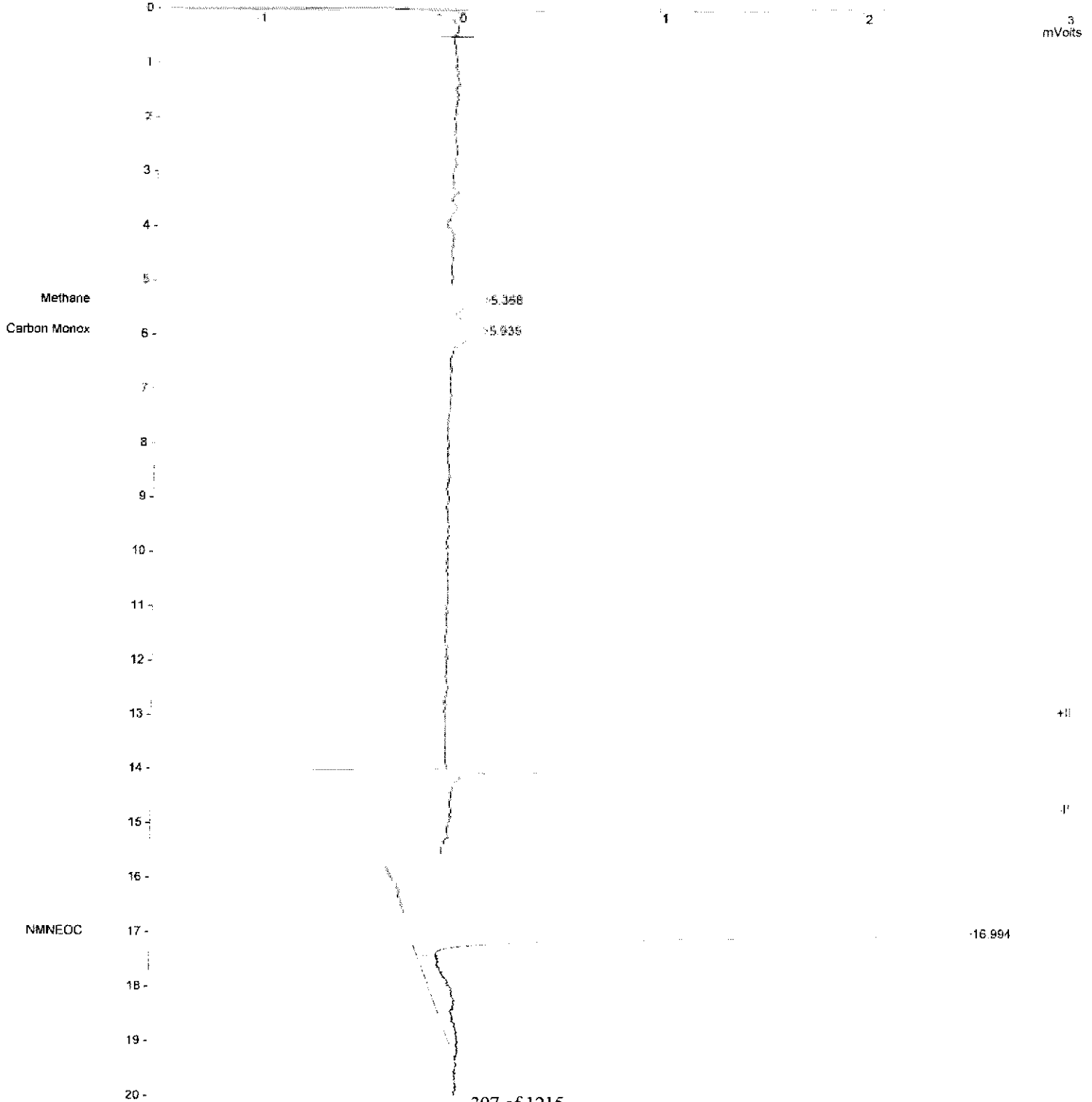
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-04-25 2ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Locus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0i
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-21 12:30 Calculation Date: 2020-01-27 11:26
 Operator : Douglass W. Detector Type: 4X-6C (1000 Volts)
 Workstation: DESKTOP-6VLSR Bus Address : 44
 Instrument : Lotus NMOG Sample Rate : 5.00 Hz
 Channel : FID Front = FID Run Time : 20.000 min

** MMS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **
 Run Mode : Calibration
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 1

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|-----------------|-------------------|---------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.538 | -0.000 | 4606 | VV | 2.1 | | |
| 2 | Carbon Dioxide | 3.633 | -0.003 | 25116 | BB | 16.6 | | |
| 3 | Ethane | 7.396 | -0.006 | 18052 | BB | 25.0 | | |
| Totals: | | | | 4776 | | | | |

Total Unidentified Counts : 26454 counts
 Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 8
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 12 microVolts - monitored before this run
 Manual Injection

Run File : C:\brukerws\data\2020\Jan 20\2020-01-21 12-30-56 2ppm mix inj 5 - master.ssqpad 25.3 3 ml Loop 01-24-20.mth
Method File : C:\brukerws\methods\master 50R0MD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:40 Calculation Date: 2020-01-27 11:26
Operator : Douglass W. Detector Type: 4XX-CC (1000 Volts)
Workstation: DESKTOP-6V158 Bus Address: 46
Instrument : Lorus NMOG Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **
Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 1

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.365 | -0.002 | 5152 | VV | 21.7 | |
| 2 | Carbon Monox | 5.940 | 0.005 | 4570 | VV | 28.0 | |
| 3 | NMNEOC | 16.988 | -0.005 | 45944 | BV | 15.3 | |
| Totals: | | | | -0.002 | 55666 | | |

Total Unidentified Counts : 28248 counts
 Detected Peaks: 21 Rejected Peaks: 3 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 15 microVolts

Manual Injection

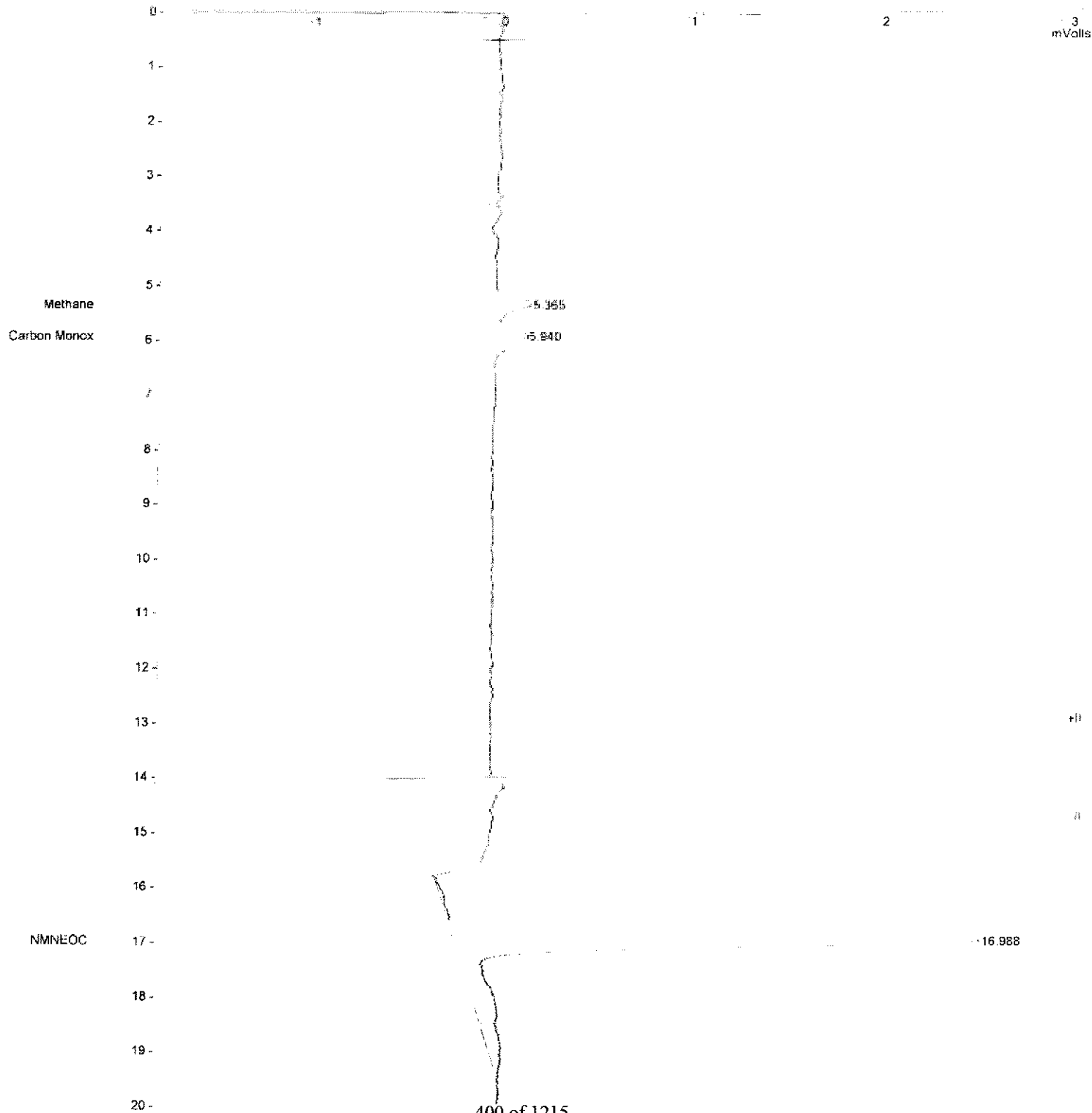
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-30-56 2ppm mix inj 5 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0i
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



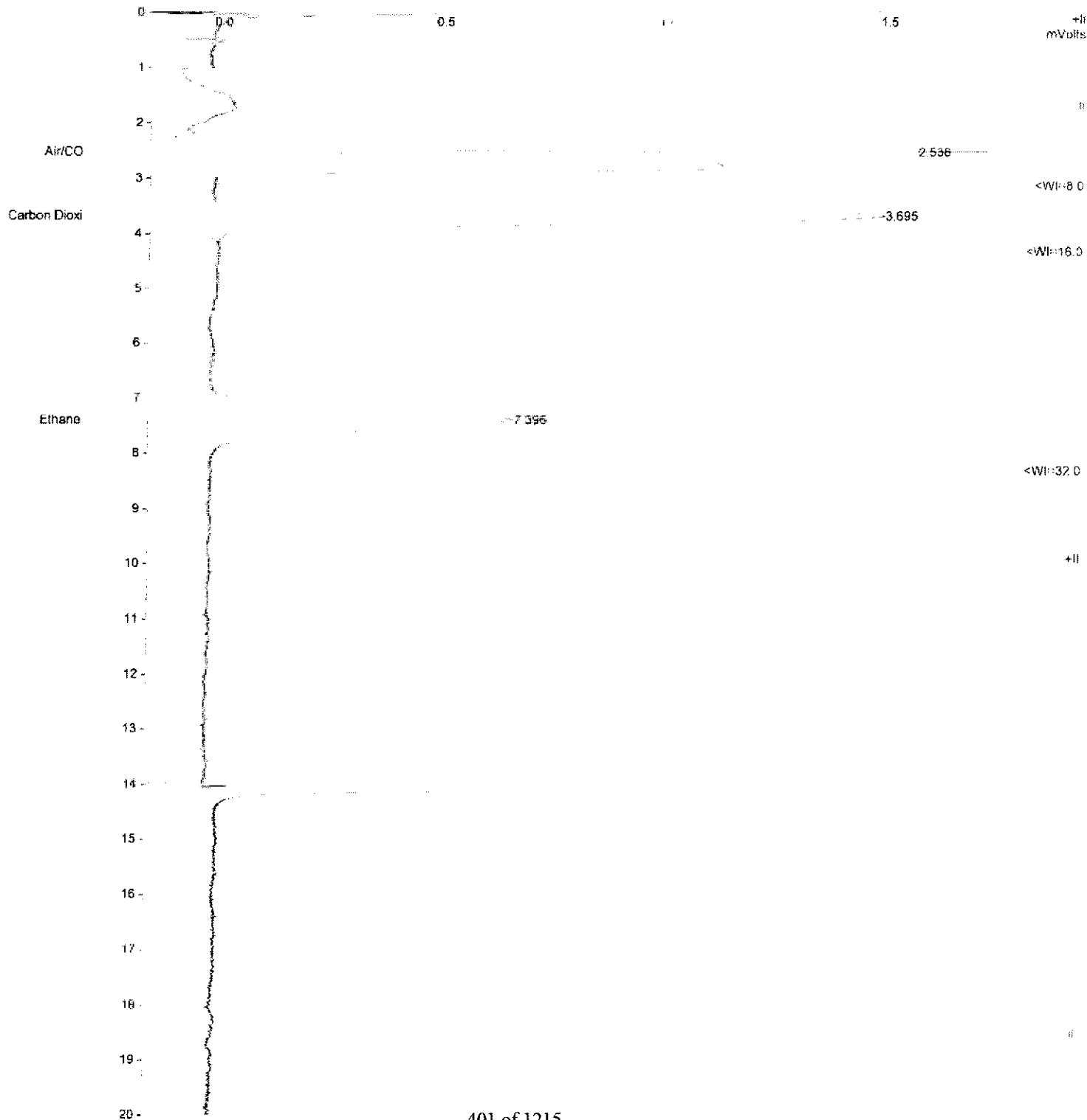
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-30-56 2ppm mix inj 5 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



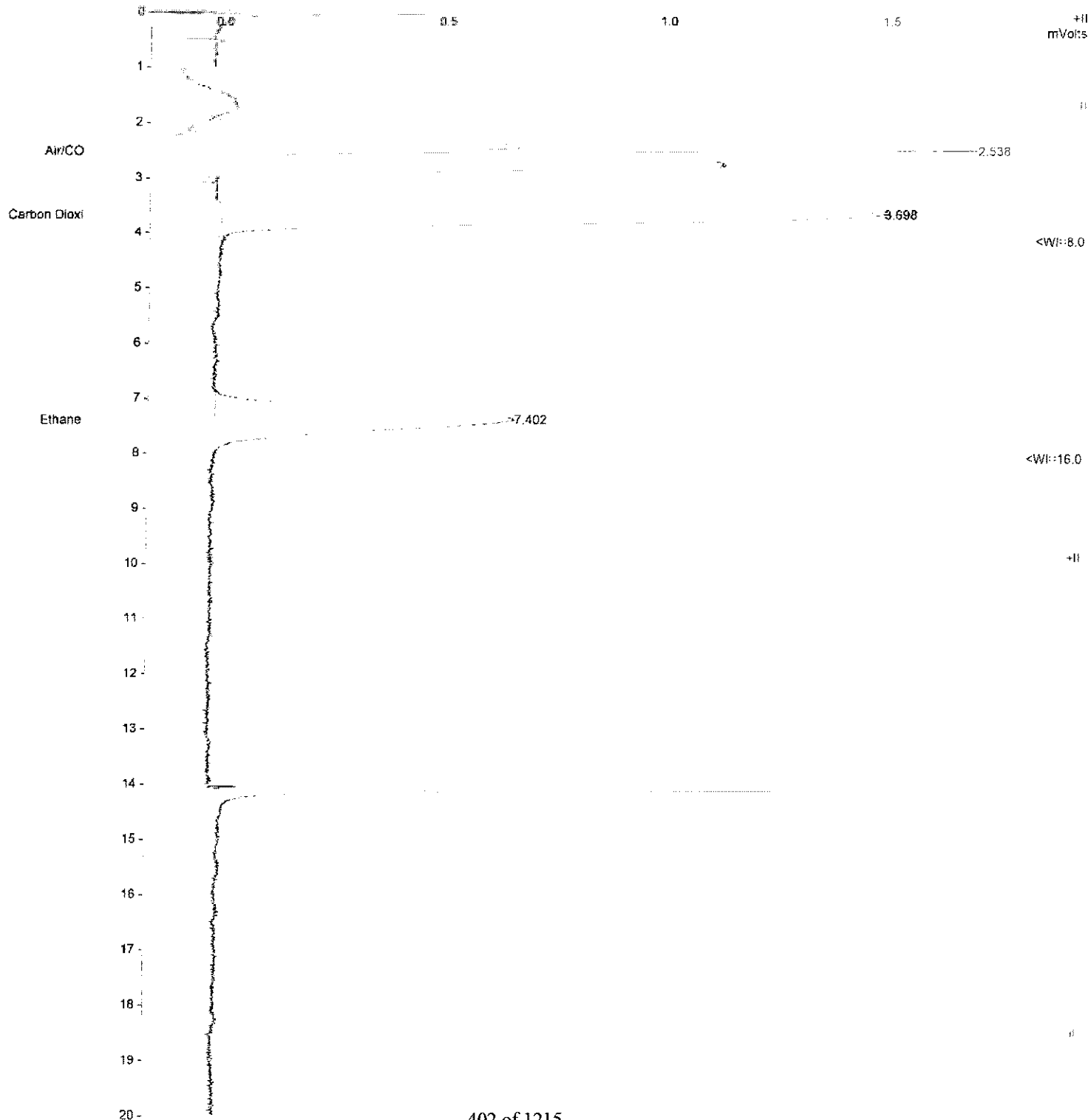
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-21 12-04-25 2ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2ppm mix

Injection Date: 2020-01-21 12:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\bruker\sw\data\2020\Jan_20\2020-01-20_16-04-09_5ppm.mix.inj 6 - master sqcmd 25.3 3 ml loop 11-28-17.sur
Run File : C:\bruker\sw\data\2020\Jan_20\2020-01-20_16-04-09_5ppm.mix.inj 6 - master sqcmd 25.3 3 ml loop 11-28-17.sur
Method File : C:\bruker\sw\methods\master_sqcmd 25.3 3 ml Loop 01-24-20.mtr
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:26
Operator : Douglass W. Detector Type: 4XX-6C (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOG Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **
Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.534 | -0.003 | 12620 | VV | 2.1 | |
| 2 | Carbon Dioxi | 3.725 | 0.030 | 47582 | BB | 16.5 | |
| 3 | Ethane | 7.450 | 0.004 | 43638 | BB | 25.2 | |
| Totals: | | | | 0.031 | 103840 | | |

Total Unidentified Counts : 6268 counts
Detected Peaks: 8 Rejected Peaks: 1 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
noise (used): 8 microVolts - monitored before this run
Manual injection

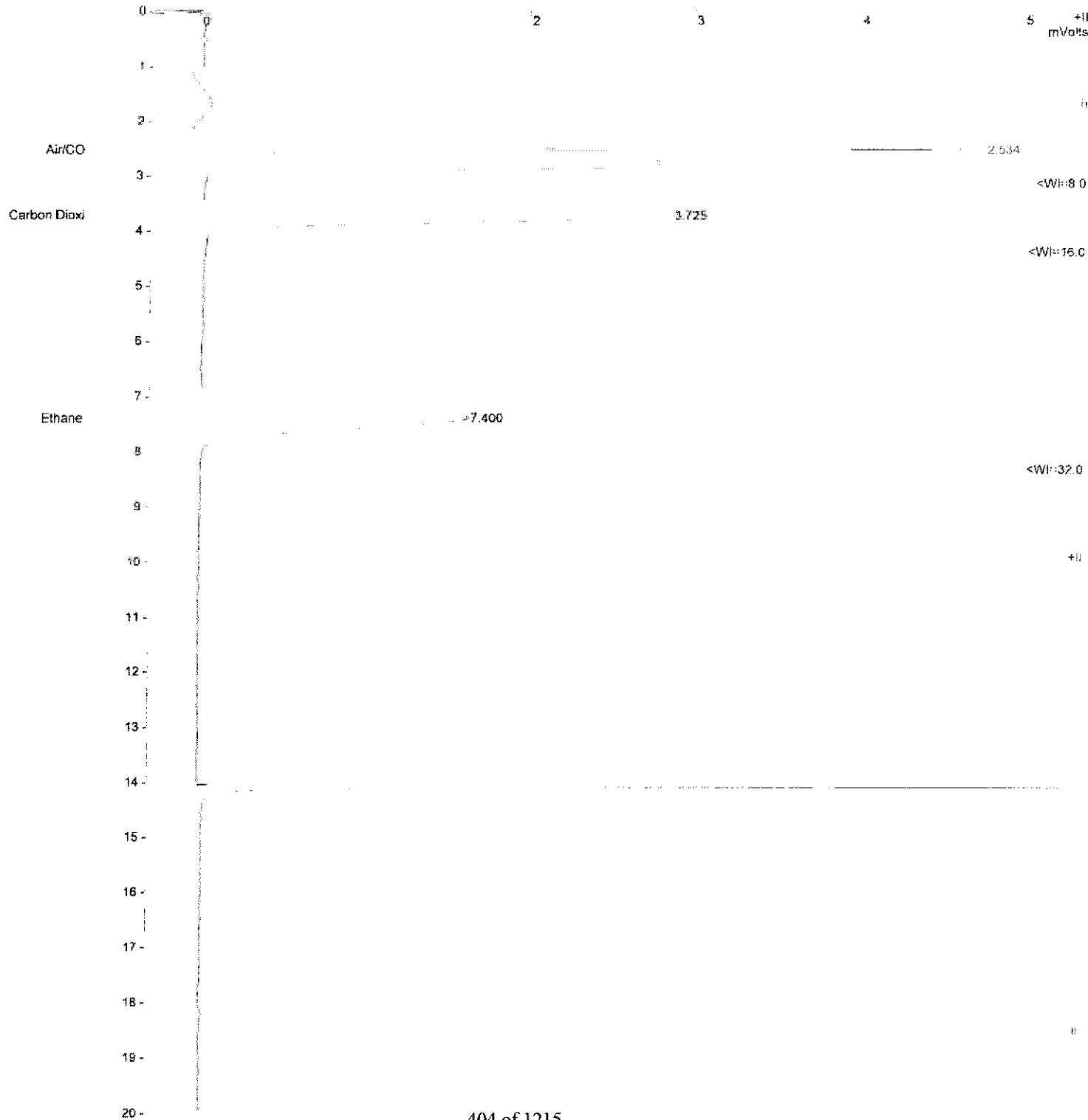
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-20 16-04-09 Sppm mix inj 6 - master sqagmd 25.3 3 ml Loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : Sppm mix

Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\msdata\2020\Jan_20\2020-01-20_16-04-09_5ppm_mix_inj
Method File : C:\Bruker\MSMethods\Master_SQAGMD_25.3_3 ml Loop 01-20-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:06
Operator : Douglass W. Detector Type: 4X-CC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOc Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **
Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 2

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------------|--------------|
| 1 | Methane | 5.375 | 0.010 | 9007 | VV 18.0 | |
| 2 | Carbon Monox | 5.948 | 0.008 | 9120 | VV 22.2 | |
| 3 | NMNEOC | 16.185 | -0.803 | 131153 | BP 29.5 | |
| Totals: | | | | 149280 | | |

Total Unidentified Counts : 16623 counts
 Detected Peaks: 21 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 14 microVolts
 Manual Injection

Title :
Run File : C:\brukerws\data\2020\Jan_20\2020-01-20_16-30-29_5ppm_mix_inj_7 - master_sqamnd_25.3_3 ml Loop_11-28-17.run
Method File : C:\brukerws\methods\master_sqamnd_25.3_3 ml Loop_01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W.
Workstation : DESKTOP-6VL55
Instrument : LOUIS NMO
Channel : FRONT = FID
Detector Type: 4XX-GC (1000 VOLTS)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.534 | 0.000 | 12787 | WV | 2.1 | |
| 2 | Carbon Dioxl | 3.723 | -0.002 | 46513 | RB | 16.5 | |
| 3 | Ethane | 7.398 | -0.001 | 43010 | EB | 25.1 | |
| Totals: | | | | -0.003 | 102310 | | |

Total Unidentified Counts : 65753 counts

Detected Peaks: 7 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: C

Baseline Offset: 0 microVolts USB: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual injection

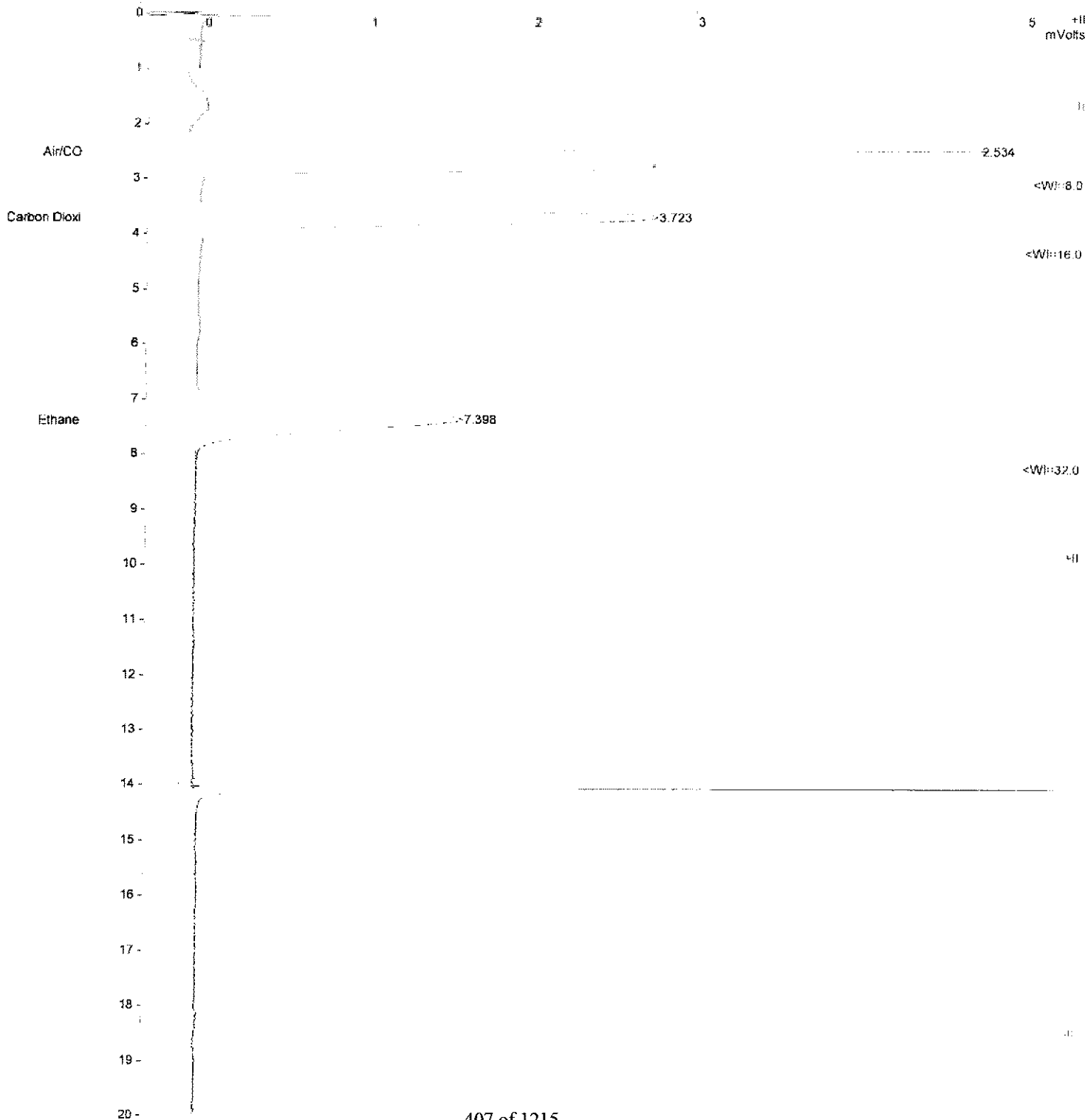
Title :
Run File : c:\brukerws\data\2020\Jan_20\2020-01-20 16-30-29 5ppm mix inj 7 - master sqagnd 25.3 3 ml loop 11-28-17.run
Method File : C:\brukerWS\methods\Master SQAGND 25.3 3 ml Loop 01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



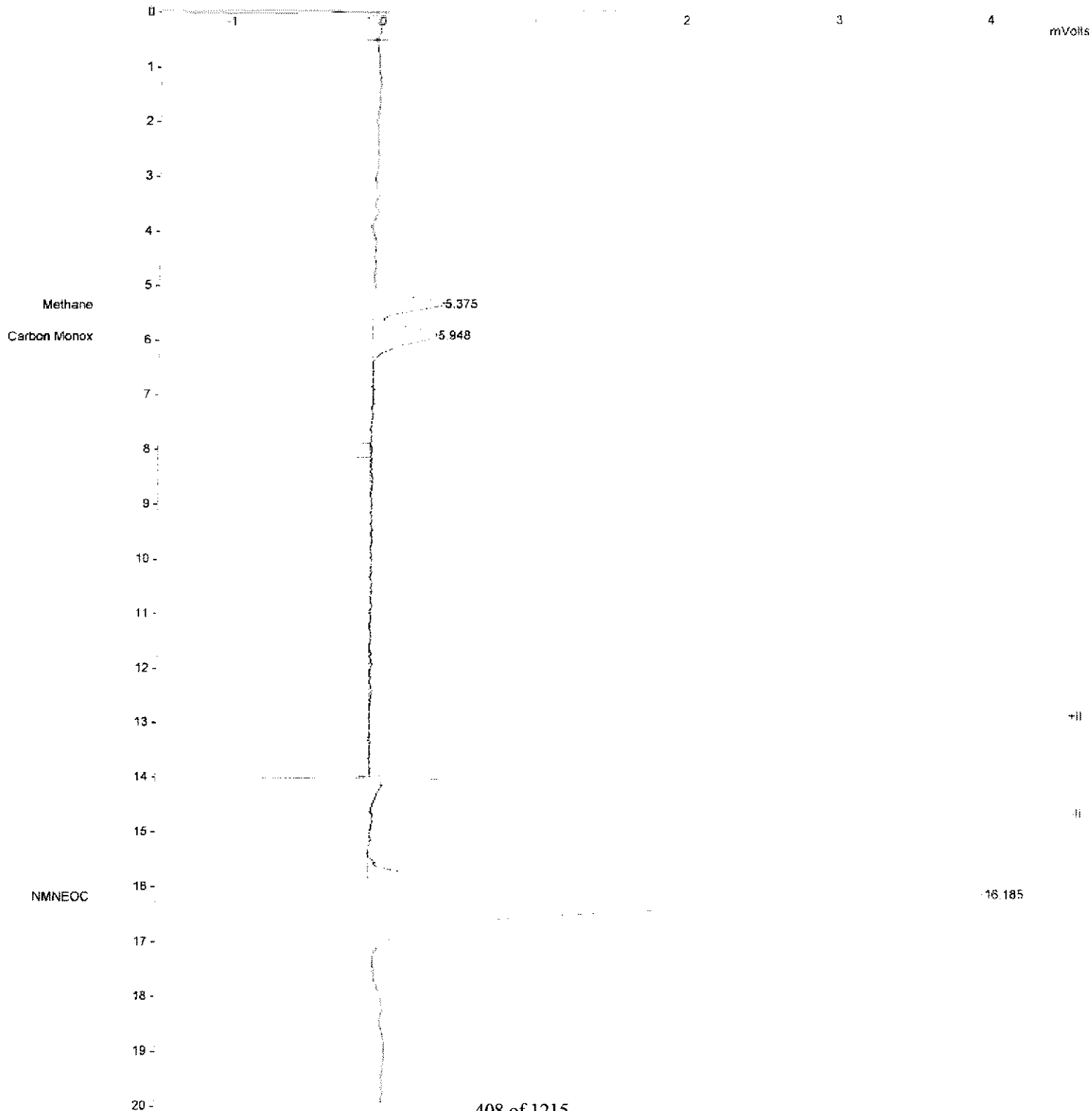
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-20 16-04-09 5ppm mix inj 6 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:04 Calculation Date: 2020-01-27 11:26

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCLON Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26
 Operator : Dougless W.
 Workstation: DESKTOP-6VLS8
 Instrument : Lotus NMOG
 Channel : Middle = FID
 Detector Type: 4X-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min
 ** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ARI-415C v4
 Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 2

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.376 | 0.002 | 9293 | VV | 18.1 | |
| 2 | Carbon Monox | 5.953 | 0.005 | 9294 | VV | 22.4 | |
| 3 | NMNEOC | 16.198 | 0.013 | 130291 | RP | 29.5 | |
| Totals: | | | | 0.020 | | 148878 | |

Total Unidentified Counts : 17698 counts
 Detected Peaks: 25 Rejected Peaks: 1 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 24 microVolts

Manual Injection

Calibration Curves Report

File: c:\brukerws\methods\master sqaqmd 25.3 3 ml loop 01-24-20.mth

Detector: 45X-GC, Address: 44, Channel ID: Middle

Methane

External Standard Analysis

Curve Type: Linear

Origin: Force

$y = +1.613548e+003x$

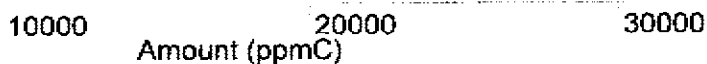
Replicates 123 3

Resp. Fact. RSD: 15.54%

Coeff. Det.(r²): 0.999800

3

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Carbon Monoxide

External Standard Analysis

Curve Type: Linear

Origin: Force

$y = +1.730324e+003x$

Replicates 123

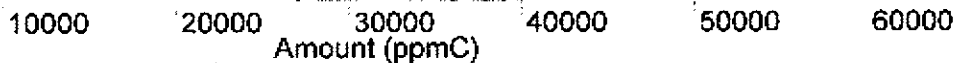
125000000

Resp. Fact. RSD: 9.772%

Coeff. Det.(r²): 0.999791

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NMNEOC

External Standard Analysis

Curve Type: Linear

Origin: Force

$y = +2.021525e+004x$

Replicates 93 3

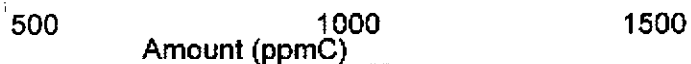
40000000

Resp. Fact. RSD: 6.084%

Coeff. Det.(r²): 0.999808

3

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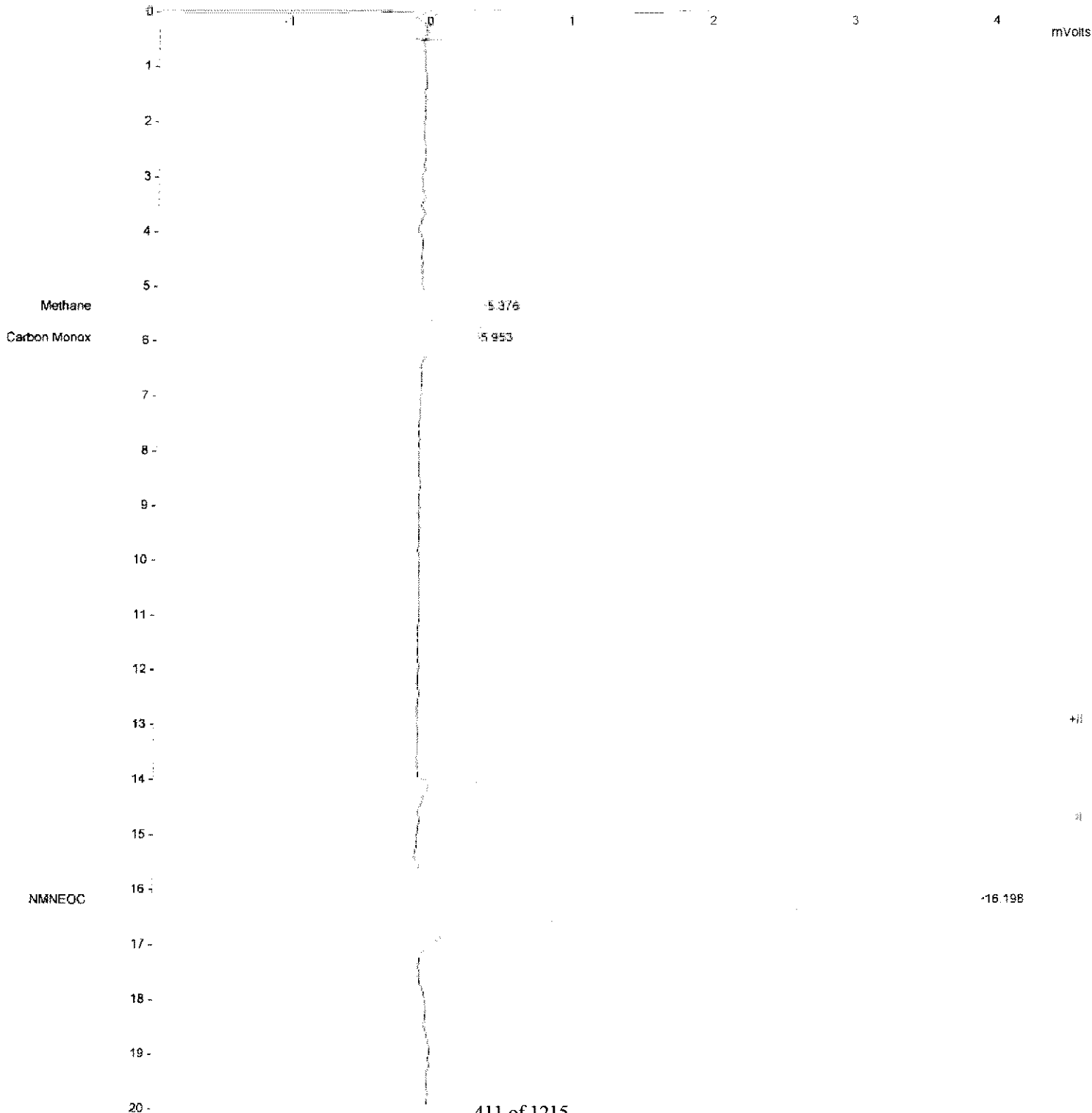
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-20 16-30-29 5ppm mix inj 7 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 5ppm mix

Injection Date: 2020-01-20 16:30 Calculation Date: 2020-01-27 11:26

Operator : Douglass W, Detector Type: 4XX-3C (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title :
Run File : C:\Bruker\ws\data\2020\Jan_20\2020-01-22_10-43-59_20ppm mix inj 3 - master sqagmd 25.3 3 ml Loop 01-22-20.mtx
Method File : C:\Bruker\ws\methods\Master_SQAQMD 25.3 3 ml Loop 01-22-20.mtx
Sample ID : 20ppm mix

Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSH Bus Address : 44
Instrument : Locus NMOG Sample Rate : 5.00 Hz
Channel : FID Front = FID Run Time : 20.000 min

** MSWS 6.0.1 for SCION Version 6.0.1 ** 02057-3701-ABI-415C **
Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|-------------|-----------------|-------------------|---------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.532 | -0.003 | 49396 | 49396 | VV | 2.1 | |
| 2 | Carbon Diox | 3.731 | 0.004 | 179236 | 179236 | BB | 16.2 | |
| 3 | Ethane | 7.391 | -0.009 | 176965 | 176965 | BB | 25.2 | |
| Totals: | | | | 405597 | 405597 | | | |

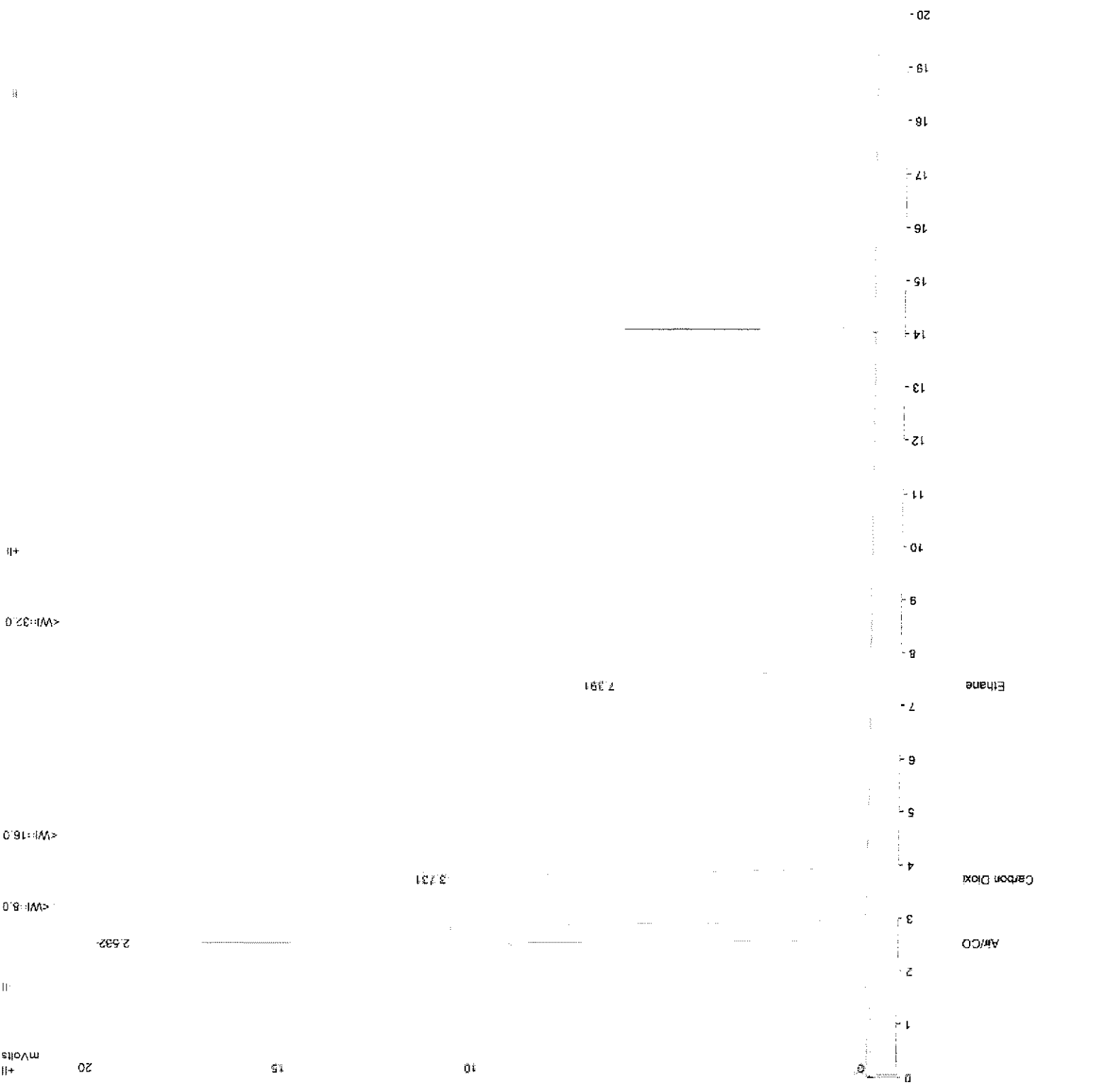
Total Unidentified Counts : 268977 counts
 Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - monitored before this run
 Manual Injection

Title :
 Run File : c:\bruker\ms\data\2020\Jan_20\2020-01-22_10-43-59_20ppm_mlx.inj 3 - master scan 25.3 ml loop 1-28-17.run
 Method File : c:\bruker\ms\methods\master 50AQMD 25.3 ml loop 01-24-20.mth
 Sample ID : 20ppm mix
 Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
 Workstation: DESKTOP-6VLSB
 Instrument : Lotus NMOC
 Channel : Front = FID
 Detector Type: 4XX-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 1
 Zero Offset = 0
 Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerws\data\2020\Jan_28\2020-01-22_10-43-59_20ppm_mix_inj.d
Method File : C:\brukerws\methods\Master\SOAQMD_25.3_3_mi_Loop_01-24-20.mkr
Sample ID : 20ppm mix

Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27

Operator : Douglas M.
Workstation: DESKTOP-6VL5B
Instrument : Lotus NMOG
Channel : Middle = FID

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.362 | -0.014 | 31671 | VV | 17.1 | |
| 2 | Carbon Monox | 5.917 | -0.035 | 34579 | VB | 21.1 | |
| 3 | NMNEOC | 16.161 | -0.033 | 643682 | PB | 26.6 | |
| Totals: | | | | 709932 | | | |

Total Unidentified Counts : 18518 counts

Detected Peaks: 22 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 17 microVolts

Annual injection

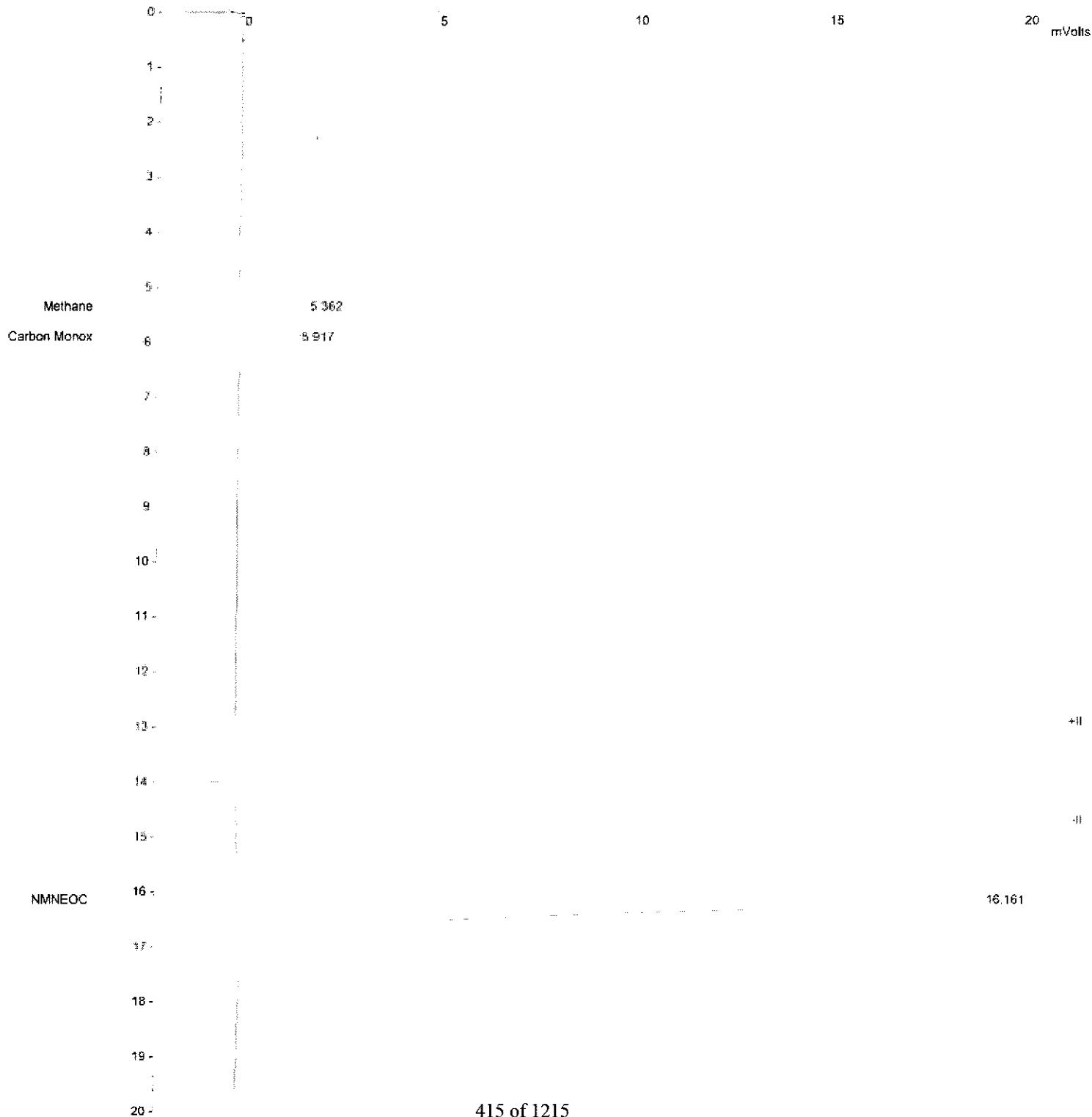
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 10-43-59 20ppm mix inj 3 - master sqacmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 10:43 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: FID-GC (1000 Volts)
Preparation: MENTOP-GM100 Bus Address : 44
Instrument : Lurie MMGC Sample Rate : 2.00 Hz
Channel : Middle = FTD Run Time : 20.000 min

** MSWS 8.0.1 for SQAQMD Version 8.0.1 ** 02057-1701-AB1-0150 **

Chart Speed = 0.99 cm/min Attenuation = 1 Base Offset = 04
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title :
Run File : c:\brukerws\data\2020\Jan_20\2020-01-22_11-10-19_20ppm_mix.ini 4 * master %gcmd 25.3 3 ml loop 01-24-20.mn
Method File : C:\BrukerWS\Methods\Master_SQCMD_25.3_3 ml Loop 01-24-20.mn
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27
Operator : Douglass W.
Workstation: DESKTOP-6V7L5B
Instrument : Latus NMXC
Channel : Front = FID
Detector Type: 4XX-5C (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABL-415C **
Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 2.532 | -0.000 | 49446 | 49446 | VV | 2.1 | |
| 2 | Carbon Dioxi | 3.731 | 0.000 | 179056 | 179056 | BB | 15.3 | |
| 3 | Ethane | 7.393 | 0.003 | 177554 | 177554 | BB | 23.2 | |
| Totals: | | | | 0.003 | 408056 | | | |

Total Unidentified Counts : 270628 counts
Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts ISS: 1 microVolts
Noise (used): 18 microVolts - monitored before this run

Manual injection

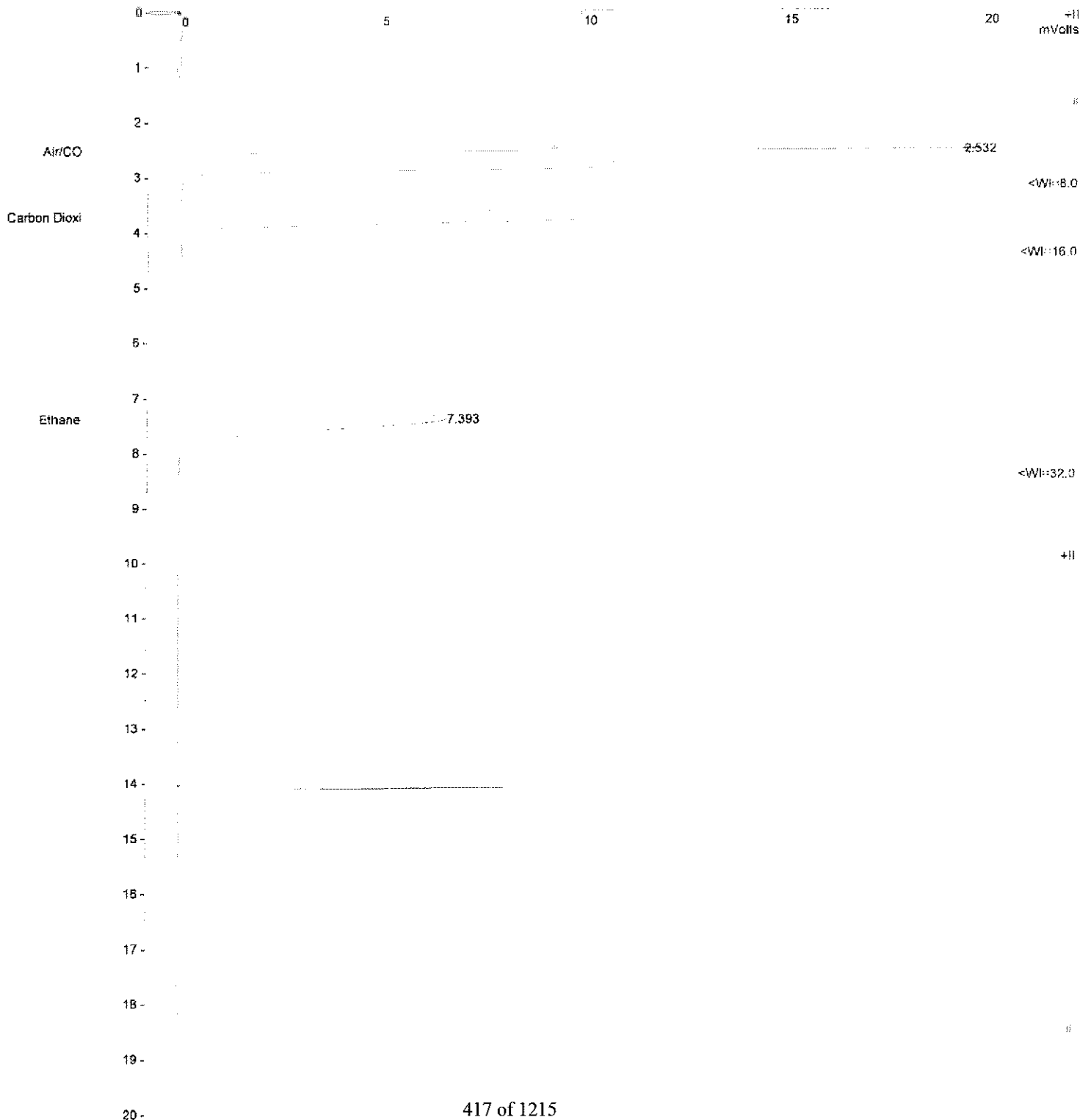
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 11-10-19 20ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 0%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Bruker\MS\data\2020\Jan_20\2020-01-22_11-10-19_20ppm_mix_lm1_4_master_sqcmd 25.3 3 m_loop 11-28 17.rsh
Method File : C:\Bruker\MS\Methods\Master_SQCMD 25.3 3 ml Loop 01-24-20.atr
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
Workstation: DESKTOP-GVLSB
Instrument : Lotus NMO
Channel : Middle * FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 4
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SClON Version 8.0.1 ** 02057-370i-AB1-415C **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 3

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.360 | -0.002 | 32448 | VV | 17.1 | |
| 2 | Carbon Monox | 5.918 | 0.001 | 35524 | VB | 21.0 | |
| 3 | NMNEOC | 16.152 | -0.008 | 640410 | PB | 28.7 | |
| Totals: | | | | 708382 | | | |

Total Unidentified Counts : 17733 counts

Detected Peaks: 23 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSH: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 16 microVolts

Annual Injection

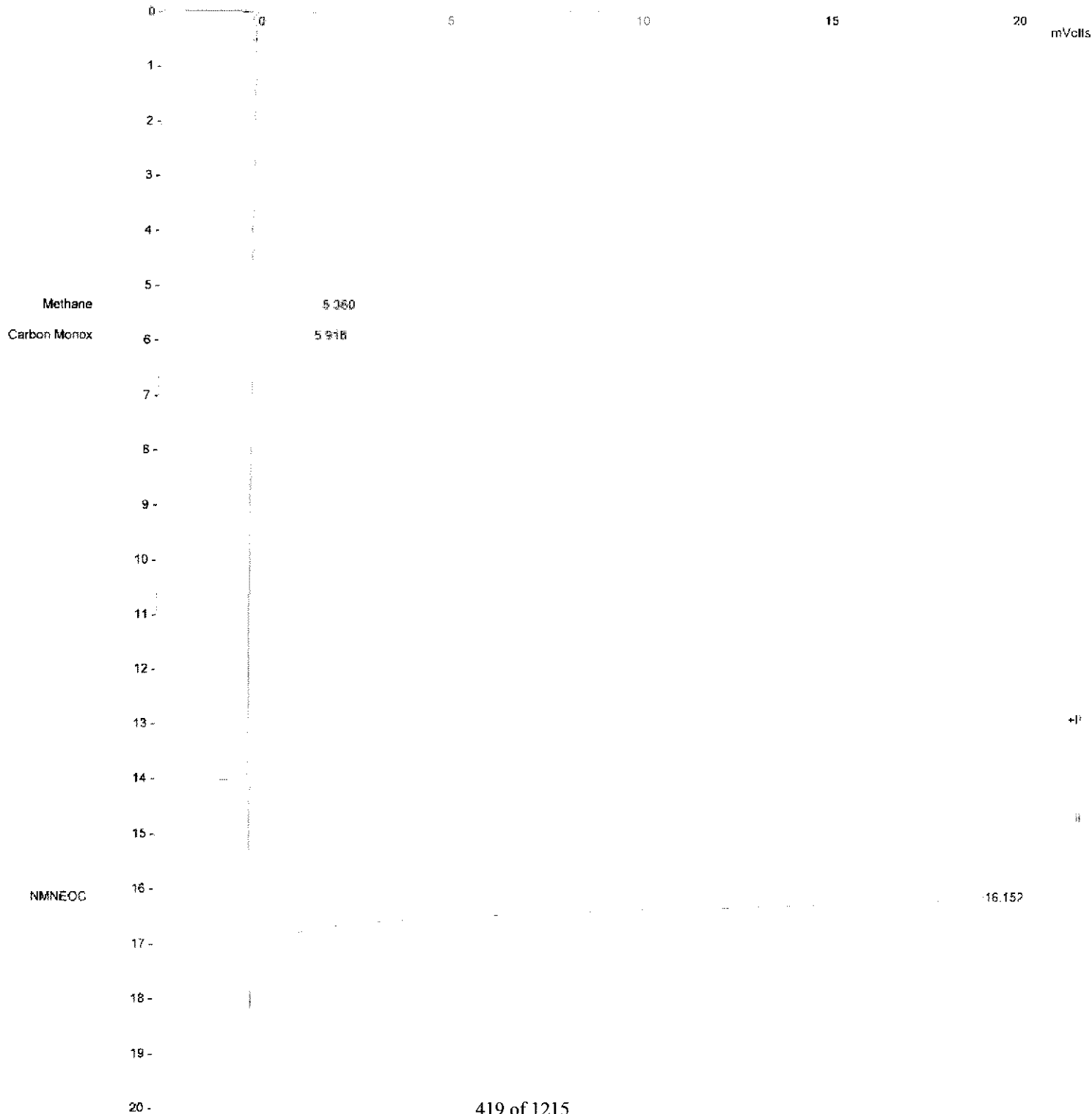
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 11-10-19 20ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 20ppm mix

Injection Date: 2020-01-22 11:10 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 1
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27
Operator : Douglas W.
Workstation: DESKTOP-GVLSH
Instrument : Lotus NMOC
Channel : Front = FID
Detector Type: 4X-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 9.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABI-415C **
Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width Sep. Code (sec) | 1/2 Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------------------|------------------|
| 1 | Air/CO | 2.531 | -0.001 | 246093 | VV 2.0 | |
| 2 | Carbon Dioxl | 3.732 | -0.001 | 907091 | BB 16.0 | |
| 3 | Ethane | 7.391 | 0.001 | 882252 | BB 25.1 | |
| Totals: | | | -0.001 | 2035426 | | |

Total Unidentified Counts : 1450073 counts
Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSP: 1 microVolts
Noise (used): 17 microVolts - monitored before this run
Manual injection

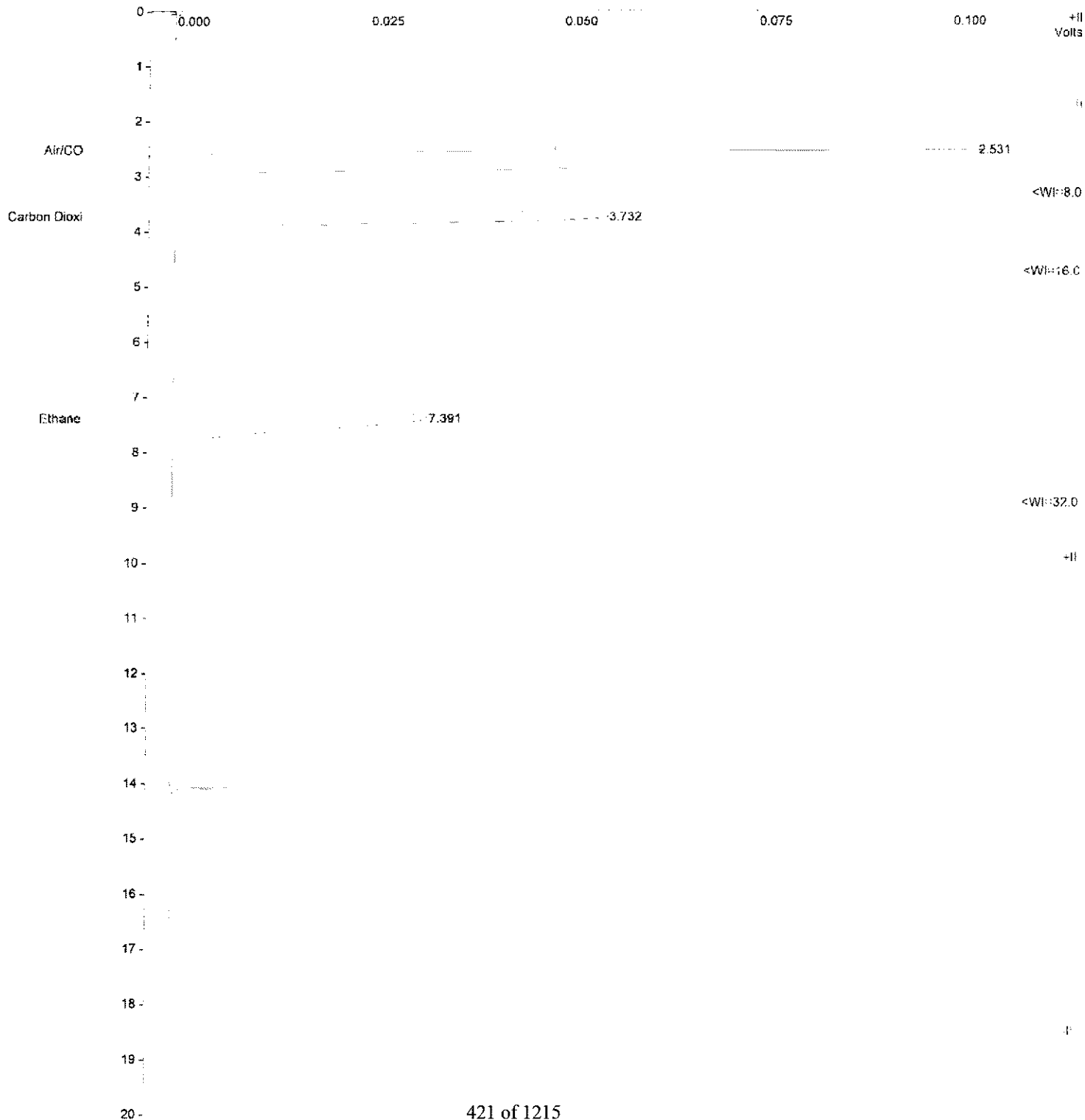
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 15-34-55 100ppm mix inj 7 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 100ppm mix

Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 1
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Bruker\ms\data\2020\Jan_20\2020-01-22_15-34-55_100ppm.mix.inj 7 - master.ssqdms 25.3 3 ml Loop 01-24-20.min
Run File : C:\Bruker\ms\data\2020\Jan_20\2020-01-22_15-34-55_100ppm.mix.inj 7 - master.ssqdms 25.3 3 ml Loop 01-24-20.min
Method File : C:\Bruker\ms\method\MasterF_SQDMS 25.3 3 ml Loop 01-24-20.min
Sample ID : 100ppm mix

Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27

Operator : Douglas W.
Workstation: DESKTOP-6VLSB
Instrument : Lorus NROC
Channel : Middle = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 0.0.1 for SClON Version 9.0.1 ** 02057-3701-AR1-415C **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Methane | 5.366 | -0.001 | 164466 | VV | 15.7 | |
| 2 | Carbon Monox | 5.911 | -0.001 | 167674 | VV | 20.5 | |
| 3 | NMNEOC | 16.989 | 0.756 | 2085799 | HR | 14.7 | |
| Totals: | | | | 0.754 | 2417879 | | |

Total Unidentified Counts : 15732 counts

Detected Peaks: 20 Rejected Peaks: 5 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 25 microVolts

Manual injection

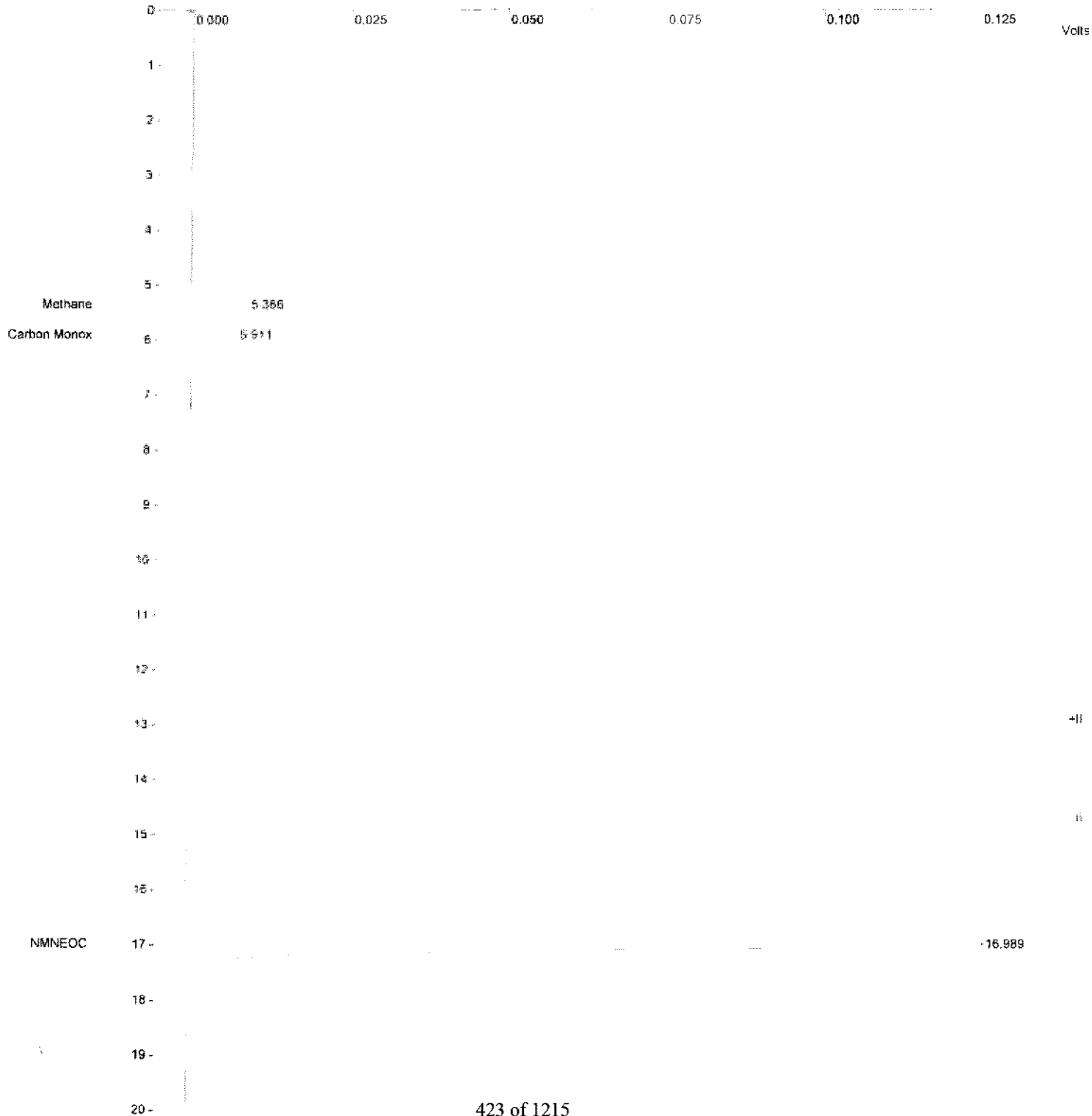
Title :
 Run File : c:\brukerws\data\2020\jan_20\2020-01-22 15-34-55 100ppm mix inj 7 - master sqaqmd 25.3 3 ml Loop 11-28-17.run
 Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
 Sample ID : 100ppm mix

Injection Date: 2020-01-22 15:34 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VL5B Bus Address : 44
 Instrument : Lotus NMOC Sample Rate : 5.00 Hz
 Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 24
 Start Time = 5.000 min End Time = 20.000 min Min / Tick = 1.00



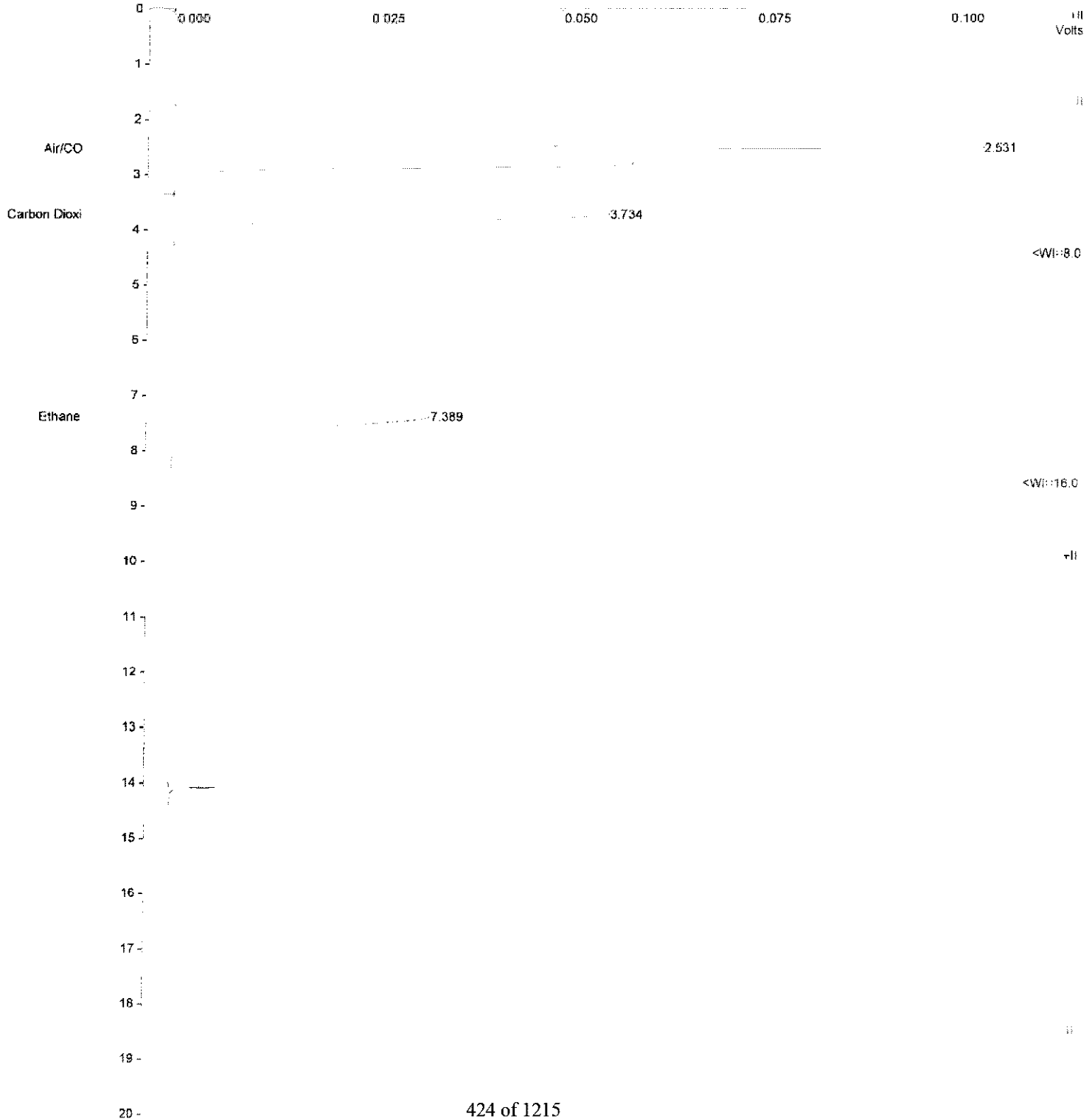
Title :
Run File : c:\bruker\data\2020\jan_20\2020-01-22 16-01-31 100ppm mix inj 8 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\Bruker\MS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 100ppm mix

Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 1 Zero Offset = 1
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Buckets\data\2020\Jan 20\2020-01-22 16-01-31 100ppm mix inj 8 .master sqcmd 25.3 3 ml Loop 01-24-23.mth
Run File : C:\Buckets\data\2020\Jan 20\2020-01-22 16-01-31 100ppm mix inj 8 .master sqcmd 25.3 3 ml Loop 01-24-23.mth
Method File : C:\Buckets\Methods\Master SQCMD 25.3 3 ml Loop 01-24-23.mth
Sample ID : 100ppm mix

Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
Workstation: DESKTOP-6V15B
Instrument : Lotus NMOC
Channel : Front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSRS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.531 | -0.000 | 247749 | VV | 2.0 | |
| 2 | Carbon Dioxi | 3.734 | 0.002 | 912067 | VB | 16.0 | |
| 3 | Ethane | 7.389 | -0.001 | 885177 | BB | 25.0 | |
| Totals: | | | | 2044993 | | | |

Total Unidentified Counts : 1460463 counts

Detected Peaks: 9 Rejected Peaks: 4 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 9 microVolts - Monitored before this run

Manual injection

Title : C:\brukerws\data\2020\Jan 26\2020-01-22 16-01-31 100ppm mix inj 8 - master.sqaqmd 25.3 3 m Loop 0.24-20.mch
Run File : C:\brukerws\data\2020\Jan 26\2020-01-22 16-01-31 100ppm mix inj 8 - master.sqaqmd 25.3 3 m Loop 0.24-20.mch
Method File : C:\brukerws\Methods\Master_SQAQMD 25.3 3 m Loop 0.24-20.mch
Sample ID : 100ppm mix

Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglass W.
Workstation: DESKTOP-6VU5B
Instrument : Lorus NMOG
Channel : Middle = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Calibration -- Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 4

| Peak No. | Peak Name | Ret. Time (min) | Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|--------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.369 | 0.003 | 166804 | VV | 16.7 | |
| 2 | Carbon Monox | 9.913 | 0.003 | 170386 | VB | 20.5 | |
| 3 | NMNEOC | 16.988 | -0.001 | 209516 | BB | 14.7 | |
| Totals: | | | | 0.005 | 2432708 | | |

Total Unidentified Counts : 16538 counts

Detected Peaks: 20 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 7 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 11 microVolts

Annual injection

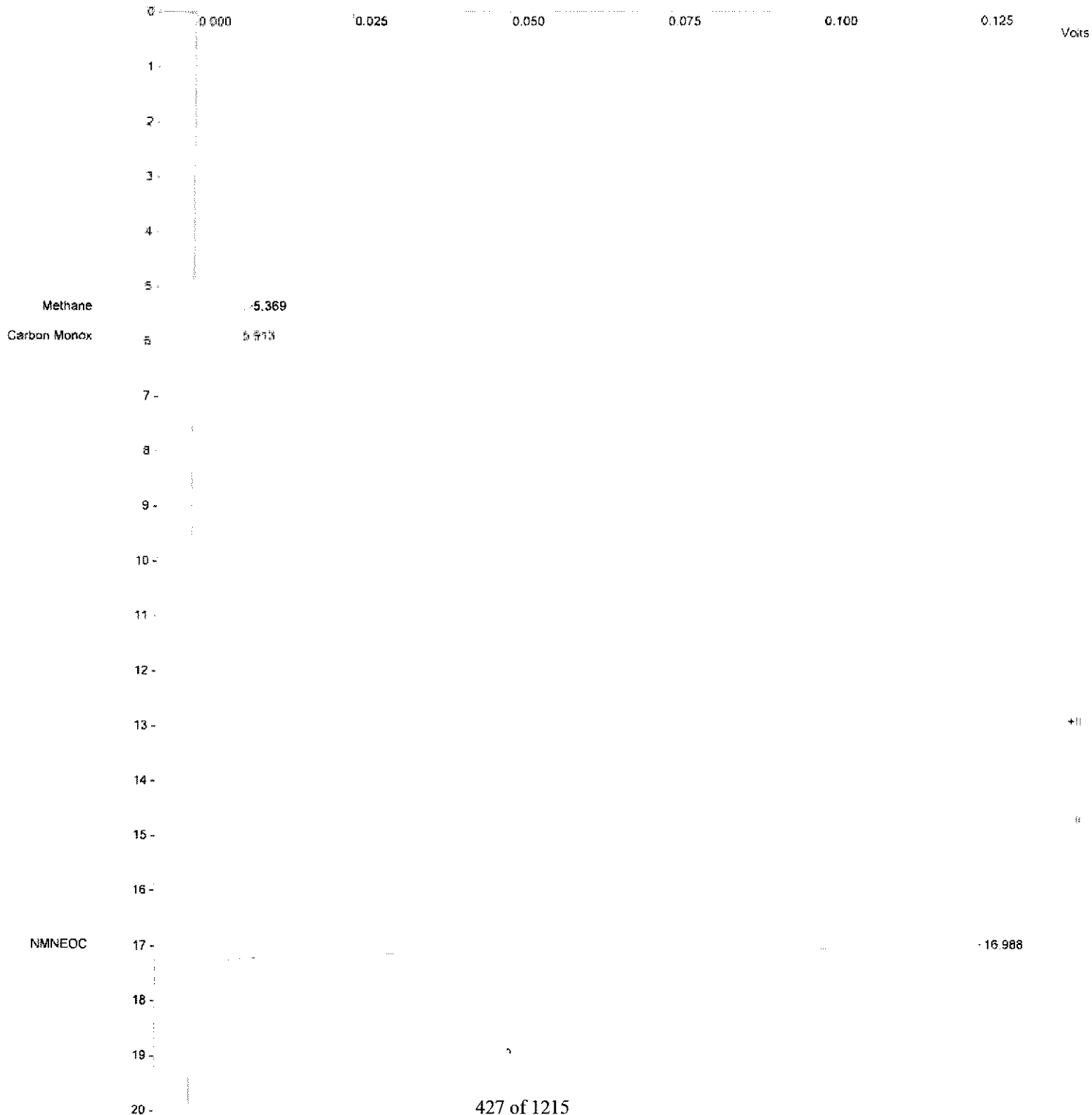
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-22 16-01-31 100ppm mix inj 8 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 100ppm mix

Injection Date: 2020-01-22 16:01 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed - 0.99 mm/min Retention = 1 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Bruker\ms\data\2020\Jan_20\2020-01-23_11-13-45_1020ppm.mix.inj
Method File : C:\Bruker\MS\Methods\Master_SQAQMD_25.3_3 ml Loop 31-24-20.mth
Sample ID : 1000ppm mix
master_sqaqmd_25.3_3 ml Loop 31-24-20.mth

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27
Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address: 44
Instrument: Lorus NMOC Sample Rate: 5.00 Hz
Channel: Front = FID Run Time: 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.532 | 0.002 | 2509161 | VV | 2.0 | |
| 2 | Carbon Dioxi | 3.732 | -0.001 | 9479276 | VB | 16.2 | |
| 3 | Ethane | 7.387 | -0.001 | 9020471 | BB | 28.1 | |
| Totals: | | | 0.000 | 21008908 | | | |

Total Unidentified Counts : 15048286 Counts
 Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 1
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: C
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 8 microVolts - monitored before this run

Manual injection

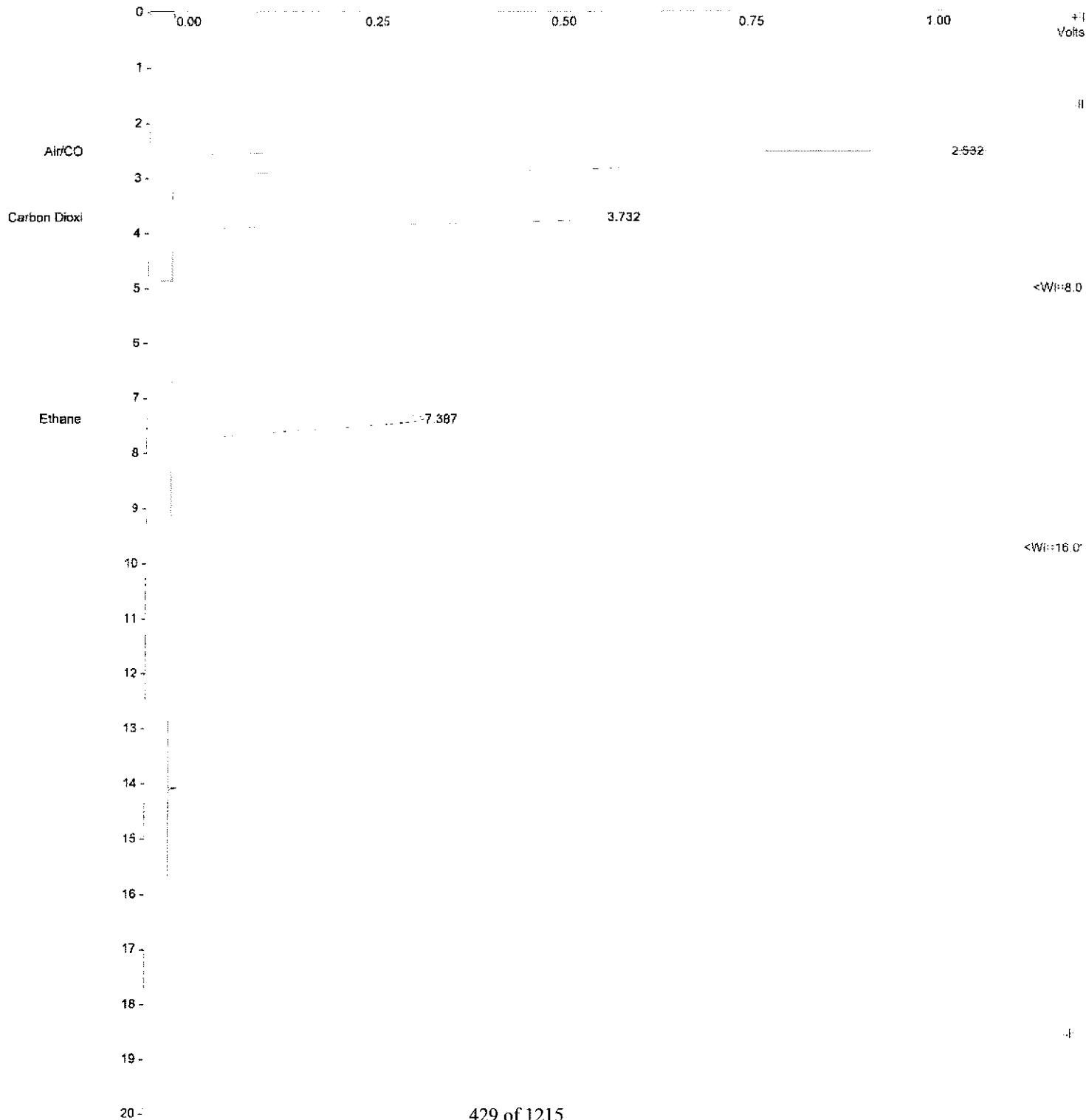
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-13-45 1000ppm mix inj 3 - master sqacmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSNS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 25
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Bruker\ms\data\2020\Jan_20\2020-01-23_11-13-45_1000ppm.mlx
Method File : C:\Bruker\ms\method\Master\SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm.mlx

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27

Operator : Douglas W
Workstation : DESKTOP-6VL5B
Instrument : Locus NROC
Channel : Middle - FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-AB1-41SC **

Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.364 | -0.004 | 1630589 | VV | 16.7 | |
| 2 | Carbon Monox | 5.889 | -0.024 | 1700909 | VR | 20.1 | |
| 3 | NMNEOC | 16.978 | -0.010 | 20342462 | PR | 14.7 | |
| Totals: | | | -0.038 | 23673960 | | | |

Total Unidentified Counts : 20950 counts

Detected Peaks: 17 Rejected Peaks: 2 Identified Peaks: 3

Multiplex: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - fixed value

Noise (monitored before this run): 24 microVolts

Manual injection

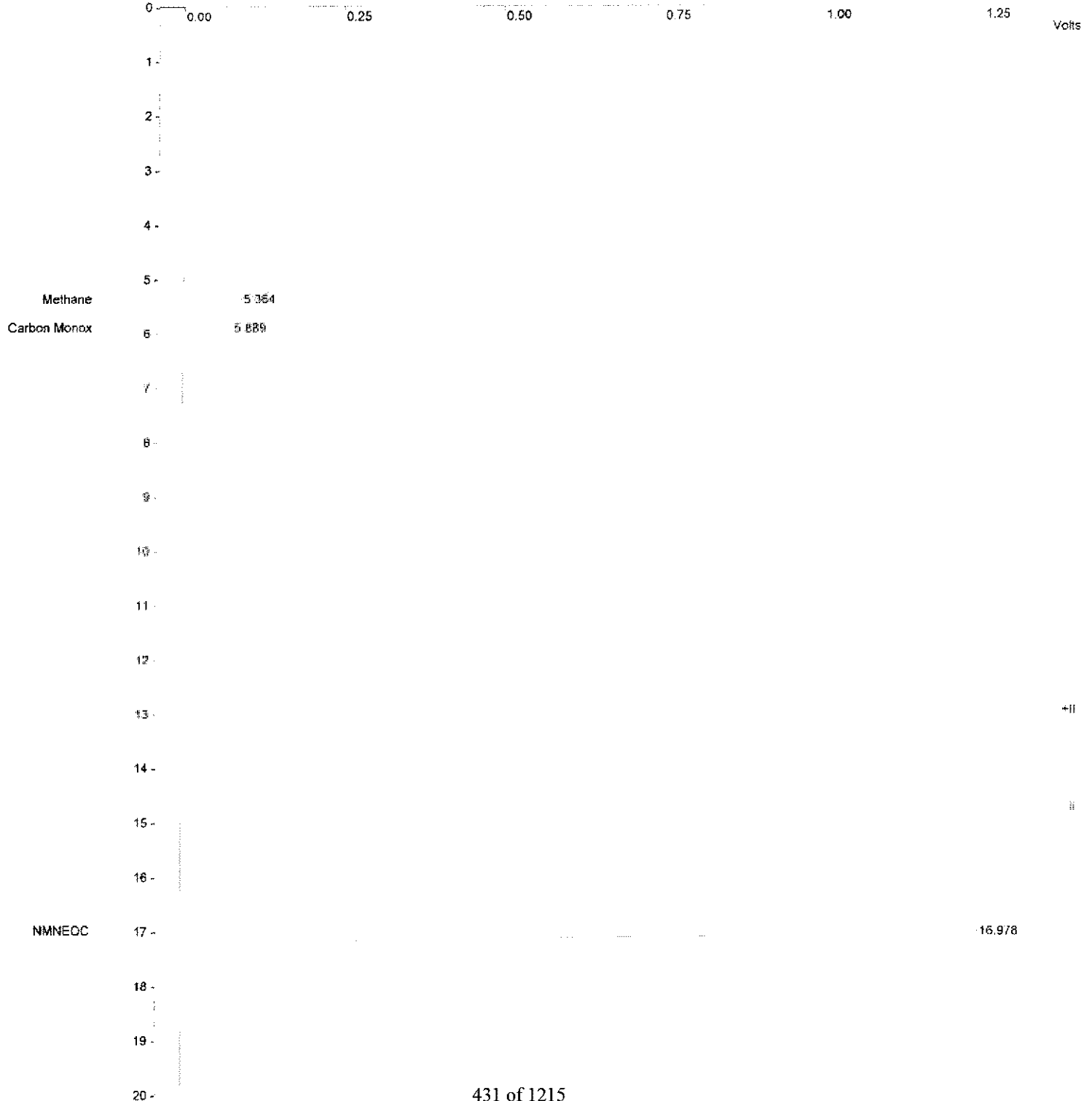
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-13-45 1000ppm mix inj 3 - master sqacmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:13 Calculation Date: 2020-01-27 11:27

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMCC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 3%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28
 Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6V15B Bus Address : 44
 Instrument : Lotus NMOG Sample Rate : 5.00 Hz
 Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **
 Run Mode : Calibration
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.531 | -0.001 | 2510045 | VV | 2.0 | |
| 2 | Carbon Dioxide | 3.732 | 0.001 | 5518937 | VB | 10.2 | |
| 3 | Ethane | 7.385 | -0.002 | 9051689 | BB | 29.1 | |
| Totals: | | | | -0.002 | 21080571 | | |

Total Unidentified Counts : 15105051 counts
 Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - monitored before this run:

Manual injection

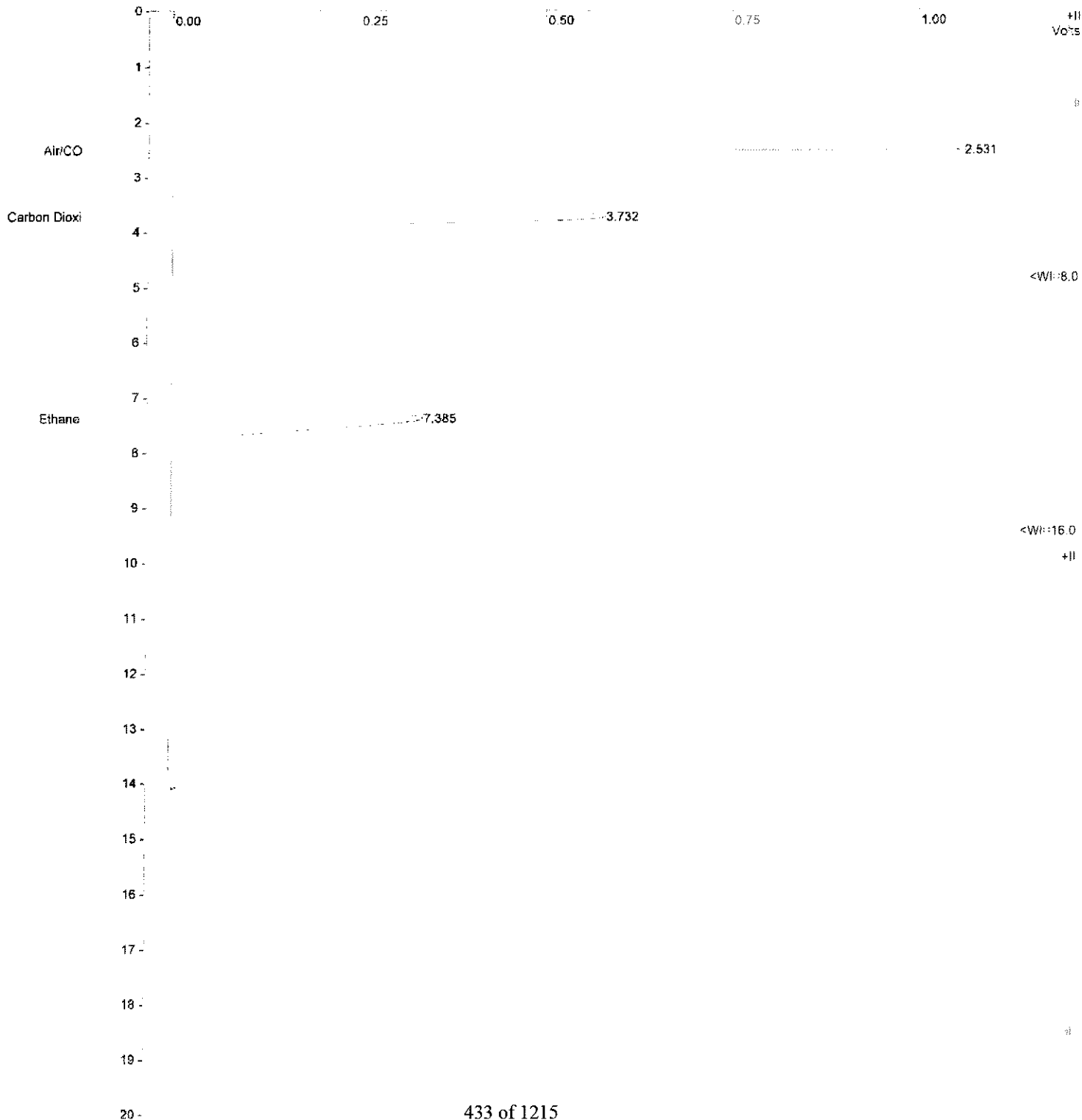
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-40-06 1000ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28

Operator : Douglas W.
 Workstation: DESKTOP-6VLS5
 Instrument : Lotus MROC
 Channel : Middle = FID
 Detector Type: 4X-GC (1000 Volts)
 Bus Address : 44
 Sample Rate : 5.00 Hz
 Run Time : 20.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 02057-3701-ABL-415C **

Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 5

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Width (sec) | Sep. Code | 1/2 Code | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-------------|-----------|----------|--------------|
| 1 | Methane | 9.366 | 0.003 | 1635501 | VV 16.7 | | | |
| 2 | Carbon Monox | 5.890 | 0.002 | 1708991 | VB 20.1 | | | |
| 3 | NNEOC | 16.979 | 0.002 | 20396076 | PB 14.8 | | | |
| Totals: | | | 0.007 | 23740568 | | | | |

Total Unidentified Counts : 21501 counts
 Detected Peaks: 17 Rejected Peaks: 0 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts 15B: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 11 microVolts

Annual injection

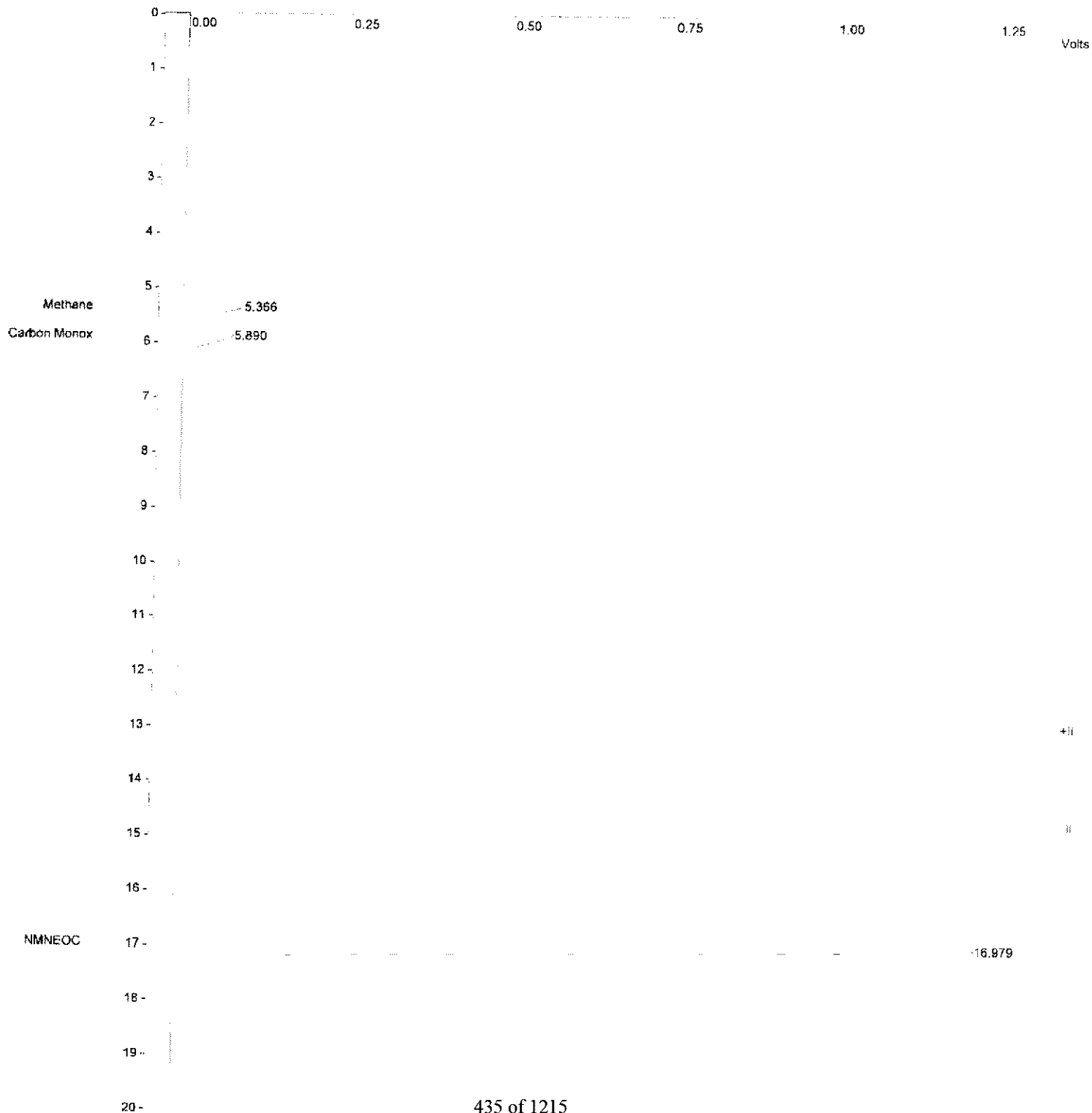
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 11-40-06 1000ppm mix inj 4 - master sqagmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 1000ppm mix

Injection Date: 2020-01-23 11:40 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 3%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\brukerws\data\2020\Jan 20\2020-01-23 14-45-51 2000ppm mix 103 4 master sqagmd 25.3 3 ml loop 11-28-27.run
Run File : c:\brukerws\data\2020\Jan 20\2020-01-23 14-45-51 2000ppm mix 103 4 master sqagmd 25.3 3 ml loop 11-28-27.run
Method File : C:\brukerws\Methods\Master SQAGMD 25.3 3 ml Loop 01-26-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28
Operator : Douglass W.
Workstation: DRSKTOP-6V15B
Instrument : Lorus NMOC
Channel : Front = FID
Detector Type: 4X-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 *. 02057-3701-AB1-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width (sec) | Status Codes |
|----------|----------------|-----------------|-------------------|---------------|-----------|-------------|--------------|
| 1 | Air/CO | 2.531 | 0.001 | 4949177 | VV | 2.1 | |
| 2 | Carbon Dioxide | 3.727 | 0.001 | 1835302 | VB | 16.1 | |
| 3 | Ethane | 7.372 | -0.000 | 1838814 | BB | 25.2 | |
| Totals: | | | | 0.002 | 41692593 | | |

Total Unidentified Counts : 30244796 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 16 microVolts - monitored before this run

Manual injection

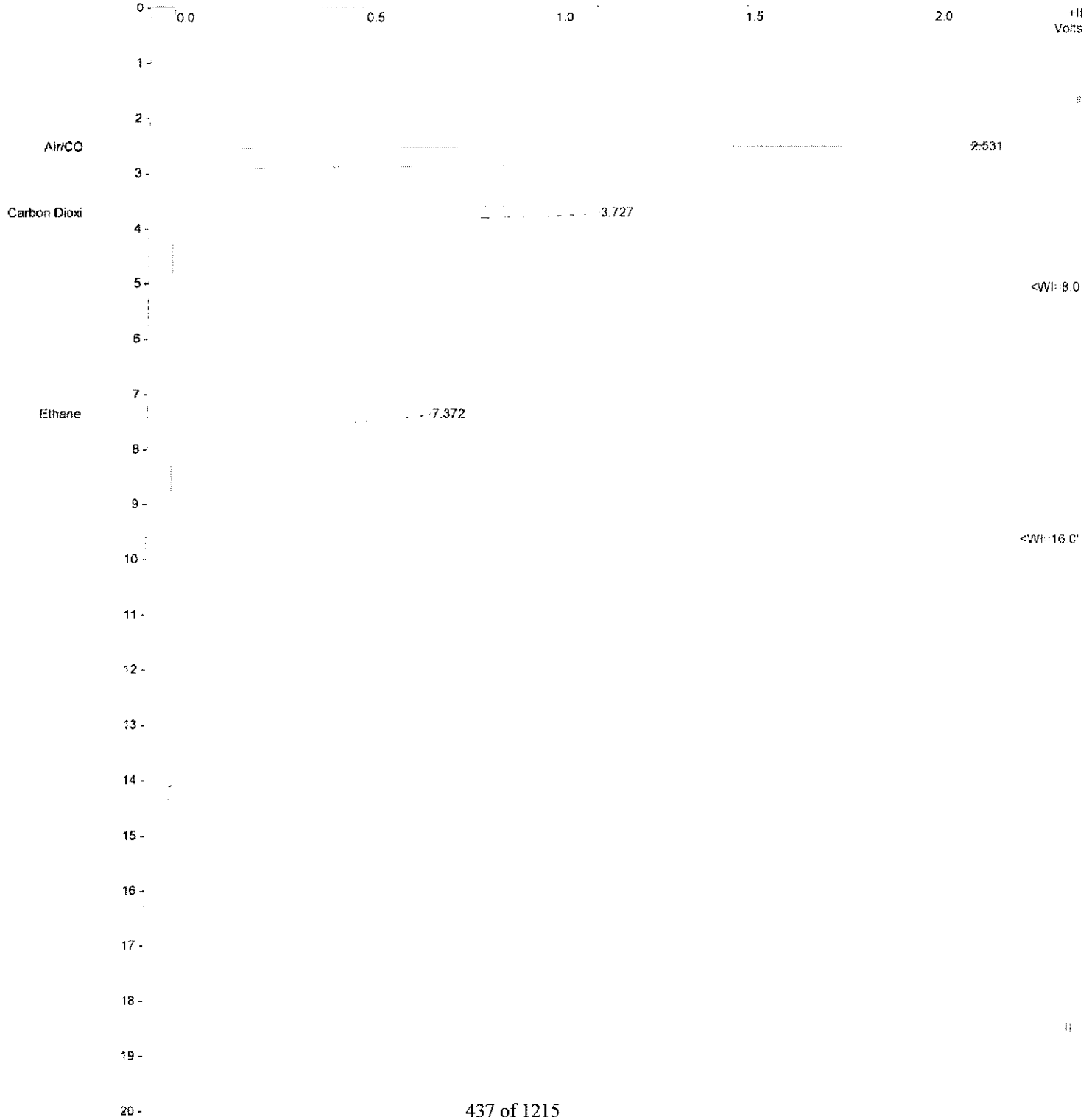
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 14-45-51 2000ppm mix inj 4 - master sqagmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 10 Zero Offset = 23
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : C:\Brokers\data\2020\Jan_20\2020-01-23_14-45-51_2000ppm.mlx (1) 4 - Waster sqagmd 25.3 3 ml loop 01-28-17.run
Run File : C:\Brokers\data\2020\Jan_20\2020-01-23_14-45-51_2000ppm.mlx (1) 4 - Waster sqagmd 25.3 3 ml loop 01-28-17.run
Method File : C:\Brokers\data\2020\Jan_20\2020-01-23_14-45-51_2000ppm.mlx (1) 4 - Waster sqagmd 25.3 3 ml loop 01-28-17.run
Sample ID : 2000ppm.mlx

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28
Operator : Douglas W
Workstation: DSKTOP6V15B
Instrument : Lotus NMO
Channel : Middle = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ARI-415C **
Run Mode : Calibration - Subtract Blank Baseline
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.368 | 0.001 | 3262561 | VV | 16.7 | |
| 2 | Carbon Monox | 5.887 | 0.002 | 3363251 | VB | 20.0 | |
| 3 | NMNEOC | 16.651 | 0.005 | 40302996 | BB | 30.2 | |
| Totals: | | | 0.008 | 46928608 | | | |

Total Unidentified Counts : 12040 counts
Detected Peaks: 16 Rejected Peaks: 3 Identified Peaks: 3
Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 15 microVolts - fixed value
Noise (monitored before this run): 9 microVolts
Annual injection

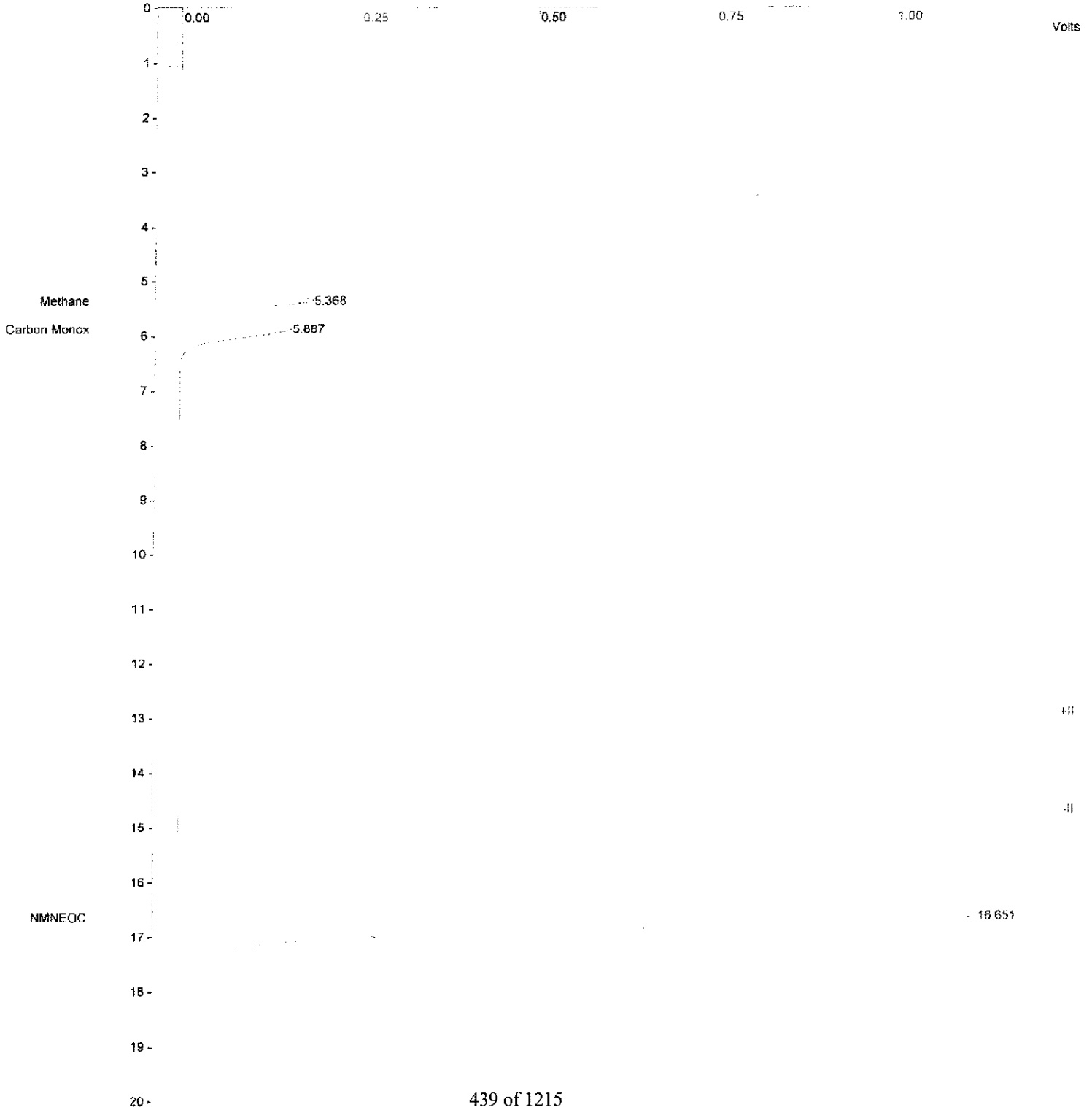
Title :
Run File : c:\brukerw\data\2020\jan_20\2020-01-23 14-45-51 2000ppm mix inj 4 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 14:45 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.99 cm/min Attenuation = 5 Zero Offset = 2%
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title : c:\bruker\ws\data\2020\Jan_20\2020-01-23_15-12-28_2000ppm.mix [1] 5 - master sqcmd 25.3 - ml loop - 1-28-17.run
Run File : c:\bruker\ws\data\2020\Jan_20\2020-01-23_15-12-28_2000ppm.mix [1] 5 - master sqcmd 25.3 - ml loop - 1-28-17.run
Method File : C:\bruker\ws\methods\master\SQCMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28

Operator : bouglass W.
Workstation : DESKTOP-6V15B
Instrument : Lotus NMOG
Channel : Front = FID
Detector Type: 4XX-GC (1000 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Run Mode : Calibration
Peak Measurement: Peak Area
Calculation Type: External Standard
Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|----------------|-----------------|-------------------|---------------|---------------|-----------|-----------------|--------------|
| 1 | Air/CO | 2.532 | 0.001 | 4971747 | VV | 2.1 | | |
| 2 | Carbon Dioxide | 3.728 | 0.001 | 18336448 | VH | 16.1 | | |
| 3 | Ethane | 7.374 | 0.002 | 18385176 | BB | 25.3 | | |
| Totals: | | | | 0.004 | 41697371 | | | |

Total Unidentified Counts : 30215216 counts

Detected Peaks: 6 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 10 microVolts - monitored before this run

Manual Injection

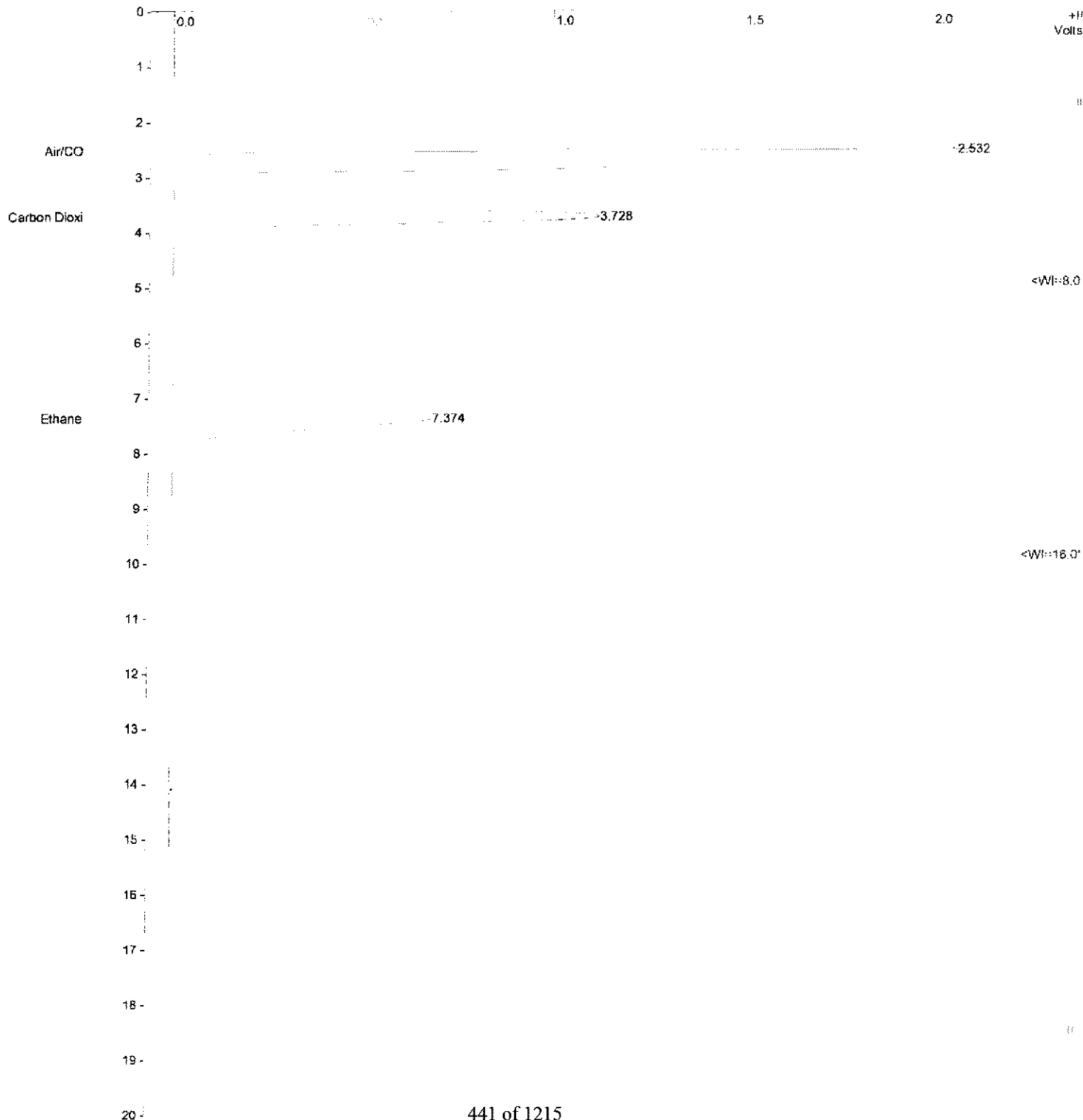
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 15-12-28 2000ppm mix inj 5 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\BrukerWS\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mth
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VLSB Bus Address : 44
Instrument : Lotus N40C Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 20.000 min

MSMS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-ABI-415C **

Chart Speed = 0.99 cm/min Attenuation = 10 Zero Offset = 25
Start Time = 0.000 min End Time = 20.000 min Min / Tick = 1.00



Title :
 Run File : c:\bruker\sw\data\2020\Jan_20\2020-01-23_15-12-28_2000ppm.mlx (0) 5 - master sqcmd 25.3 3 ml loop 11-28-17.run
 Method File : c:\bruker\sw\methods\master_sqcmd 25.3 3 ml Loop 01-26-20.mth
 Sample ID : 2000ppm.mlx

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28
 Operator : Douglass W
 Detector Type: 4XX-GC (1000 Volts)
 Workstation: DESKTOP-6VJ5B Bus Address : 44
 Instrument : Lotus NMOC Sample Rate : 5.00 Hz
 Channel : Middle = FID Run Time : 20.000 min

** MWS 8.0.1 for SCIION Version 8.0.1 ** 02097-3701-AR1-415C **
 Run Mode : Calibration - Subtract Blank Baseline
 Peak Measurement: Peak Area
 Calculation Type: External Standard
 Level : 6

| Peak No. | Peak Name | Ret. Time (min) | Time Offset (min) | Area (counts) | Sep. Code | Width 1/2 (sec) | Status Codes |
|----------|--------------|-----------------|-------------------|---------------|-----------|-----------------|--------------|
| 1 | Methane | 5.368 | -0.000 | 3261092 | BV | 16.6 | |
| 2 | Carbon Monox | 5.887 | 0.001 | 3359567 | VB | 20.0 | |
| 3 | NNNEOC | 16.659 | 0.009 | 38855688 | BB | 30.4 | |
| Totals: | | | | 0.010 | 46476337 | | |

Total Unidentified Counts : 11411 counts
 Detected Peaks: 15 Rejected Peaks: 1 Identified Peaks: 3
 Multiplier: N/A Divisor: N/A Unidentified Peak Factor: 0
 Baseline Offset: 0 microVolts LSB: 1 microVolts
 Noise (used): 15 microVolts - fixed value
 Noise (monitored before this run): 23 microVolts
 Manual injection

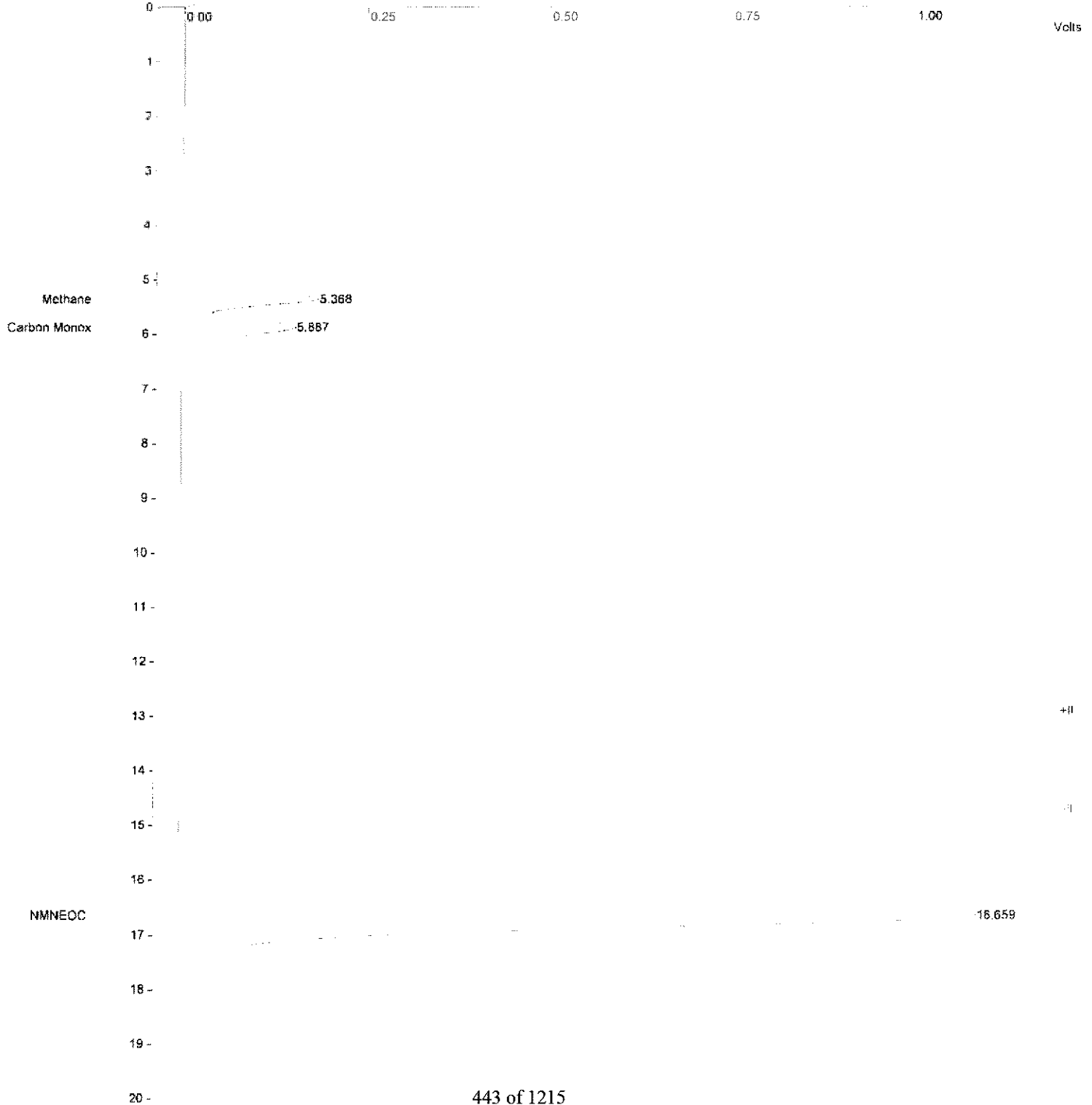
Title :
Run File : c:\brukerws\data\2020\jan_20\2020-01-23 15-12-28 2000ppm mix inj 5 - master sqaqmd 25.3 3 ml loop 11-28-17.run
Method File : C:\brukerws\methods\Master SQAQMD 25.3 3 ml Loop 01-24-20.mtn
Sample ID : 2000ppm mix

Injection Date: 2020-01-23 15:12 Calculation Date: 2020-01-27 11:28

Operator : Douglass W. Detector Type: 4XX-GC (1000 Volts)
Workstation: DESKTOP-6VL5B Bus Address : 44
Instrument : Lotus NMOC Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 20.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 02057-3701-AB1-415C **

Chart Speed = 0.29 mm/min Attenuation = 5 Wave Offset = 20
Start Time = 0.000 min End Time = 20.000 min Mic / Tick = 1.00





April 12, 2021

Vista Work Order No. 2103102

Mr. Charles Figueroa
Alliance Source Testing
10602 Walker Street
Cypress, CA 90630

Dear Mr. Figueroa,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on March 23, 2021 under your Project Name '21-0883'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 www.vista-analytical.com

Vista Work Order No. 2103102

Case Narrative

Sample Condition on Receipt:

Nine air train samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements. Sample ID discrepancies were noted for samples "21-0883 Inlet FB" and "21-0883 Outlet FB" between the petri dish labels, bubble wrap and the Chain-of-Custody (CoC). The sample IDs have been reported as listed on the CoC.

Analytical Notes:

CARB Method 429

These samples were extracted and analyzed for PAHs by CARB Method 429 using a ZB-50 GC column. Additional internal standard solution was added to the extracts of samples "21-0883 Inlet 1", "21-0883 Inlet 2" and "21-0883 Inlet 3" to quantify Naphthalene and 2-Methylnaphthalene. These results were reported from 1:500 dilutions and the results above the calibration range and have been flagged with an "E" qualifier. Further dilution of the samples would have resulted in insufficient response of the labeled standards for accurate quantitation.

Holding Times

The method holding time criteria were met for the samples.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limit in the Method Blank. The LCS/LCSD recoveries and relative percent differences (RPD) were within the method acceptance criteria.

The labeled standard recoveries outside the method acceptance criteria are listed in the table below:

QC Anomalies

| LabNumber | SampleName | Analysis | Analyte | Flag | %Rec |
|--------------|------------------|-----------------|-----------------------------|------|------|
| 2103102-05 | 21-0883 Outlet 2 | CARB Method 429 | d12-Indeno(1,2,3-c,d)pyrene | H | 47.4 |
| B1D0016-BLK1 | B1D0016-BLK1 | CARB Method 429 | d8-Naphthalene | H | 34.0 |

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/Containers |
|-----------------|------------------------|-----------------|-----------------|--|
| 2103102-01 | 21-0883 Inlet 1 | 17-Mar-21 15:00 | 23-Mar-21 12:54 | FH/BH Rinse Impinger Contents and Rinses Filter XAD |
| 2103102-02 | 21-0883 Inlet 2 | 18-Mar-21 13:00 | 23-Mar-21 12:54 | FH/BH Rinse Impinger Contents and Rinses Filter XAD |
| 2103102-03 | 21-0883 Inlet 3 | 19-Mar-21 13:00 | 23-Mar-21 12:54 | FH/BH Rinse Impinger Contents and Rinses Filter XAD |
| 2103102-04 | 21-0883 Outlet 1 | 17-Mar-21 15:00 | 23-Mar-21 12:54 | FH/BH Rinse Impinger Contents and Rinses Filter XAD |
| 2103102-05 | 21-0883 Outlet 2 | 18-Mar-21 13:00 | 23-Mar-21 12:54 | FH/BH Rinse Impinger Contents and Rinses Filter XAD |
| 2103102-06 | 21-0883 Outlet 3 | 19-Mar-21 13:00 | 23-Mar-21 12:54 | FH/BH Rinse Impinger Contents and Rinses Filter XAD |
| 2103102-07 | 21-0883 Inlet FB | 16-Mar-21 12:00 | 23-Mar-21 12:54 | FH Rinse BH Rinse IMP Contents IMP Rinse Filter XAD |
| 2103102-08 | 21-0883 Outlet FB | 16-Mar-21 12:00 | 23-Mar-21 12:54 | FH Rinse BH Rinse IMP Contents IMP Rinse Filter XAD |
| 2103102-09 | 21-0883 Reagent Blanks | 16-Mar-21 12:00 | 23-Mar-21 12:54 | Impinger Solution |

ANALYTICAL RESULTS

Sample ID: Method Blank

CARB Method 429

| Client Data | | Laboratory Data | | | |
|-------------|-------------------------|-----------------|--------------|-----------------|-----------|
| Name: | Alliance Source Testing | Lab Sample: | B1D0016-BLK1 | Date Extracted: | 05-Apr-21 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Column: | ZB-50 |
| Matrix: | Air | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|------|------------|-----------------|----------|
| Naphthalene | ND | 25.0 | | 06-Apr-21 19:50 | 1 |
| 2-Methylnaphthalene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Acenaphthylene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Acenaphthene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Fluorene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Phenanthrene | ND | 25.0 | | 06-Apr-21 19:50 | 1 |
| Anthracene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Fluoranthene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Pyrene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Benz(a)anthracene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Chrysene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Benzo(b)fluoranthene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Benzo(e)pyrene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Benzo(a)pyrene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Perylene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Indeno(1,2,3-c,d)pyrene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |
| Benzo(g,h,i)perylene | ND | 10.0 | | 06-Apr-21 19:50 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 34.0 | 50 - 150 | H | 06-Apr-21 19:50 | 1 |
| d8-Acenaphthylene | IS | 55.0 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d10-Acenaphthene | IS | 60.8 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d10-Fluorene | IS | 75.9 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d10-Phenanthrene | IS | 95.5 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d10-Fluoranthene | IS | 78.0 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Benz(a)anthracene | IS | 76.8 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Chrysene | IS | 82.1 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Benzo(b)fluoranthene | IS | 77.4 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Benzo(k)fluoranthene | IS | 79.5 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Benzo(a)pyrene | IS | 73.0 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 83.9 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 91.8 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 87.0 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d14-Terphenyl | PS | 112 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d12-Benzo(e)pyrene | PS | 104 | 50 - 150 | | 06-Apr-21 19:50 | 1 |
| d10-Anthracene | AS | 67.9 | 50 - 150 | | 06-Apr-21 19:50 | 1 |

RL - Reporting limit

Results reported to RL.

Sample ID: LCSD

CARB Method 429

| | | | |
|----------------|------------------------------------|-----------------|--------------|
| Name: | Alliance Source Testing | Lab Sample: | B1D0016-BSD1 |
| Project: | 21-0883 | QC Batch: | B1D0016 |
| Matrix: | Air | Date Extracted: | 05-Apr-21 |
| Date Analyzed: | 06-Apr-21 18:16 06-Apr-21 17:29 | Samp Size: | N/A |
| | | Column: | ZB-50 |

| Analyte | LCS (ng/Sample) | LCS Spike Amt | LCS % Rec | LCS Quals | LCSD (ng/Sample) | LCSD Spike Amt | LCSD % Rec | RPD | LCSD Quals | %Rec Limits | RPD Limits |
|-------------------------|--------------------|------------------|--------------|--------------|---------------------|-------------------|---------------|-------|---------------|----------------|---------------|
| Naphthalene | 535 | 500 | 107 | | 565 | 500 | 113 | 5.39 | | 50-150 | 200 |
| 2-Methylnaphthalene | 195 | 200 | 97.6 | | 186 | 200 | 93.1 | 4.69 | | 50-150 | 200 |
| Acenaphthylene | 199 | 200 | 99.4 | | 205 | 200 | 102 | 2.89 | | 50-150 | 200 |
| Acenaphthene | 192 | 200 | 96.0 | | 206 | 200 | 103 | 6.98 | | 50-150 | 200 |
| Fluorene | 195 | 200 | 97.5 | | 203 | 200 | 101 | 3.84 | | 50-150 | 200 |
| Phenanthrene | 539 | 500 | 108 | | 555 | 500 | 111 | 2.76 | | 50-150 | 200 |
| Anthracene | 201 | 200 | 100 | | 197 | 200 | 98.6 | 1.89 | | 50-150 | 200 |
| Fluoranthene | 209 | 200 | 105 | | 224 | 200 | 112 | 6.72 | | 50-150 | 200 |
| Pyrene | 205 | 200 | 103 | | 218 | 200 | 109 | 5.73 | | 50-150 | 200 |
| Benz(a)anthracene | 219 | 200 | 110 | | 224 | 200 | 112 | 2.42 | | 50-150 | 200 |
| Chrysene | 214 | 200 | 107 | | 221 | 200 | 111 | 3.23 | | 50-150 | 200 |
| Benzo(b)fluoranthene | 222 | 200 | 111 | | 226 | 200 | 113 | 1.67 | | 50-150 | 200 |
| Benzo(k)fluoranthene | 206 | 200 | 103 | | 217 | 200 | 109 | 5.49 | | 50-150 | 200 |
| Benzo(e)pyrene | 193 | 200 | 96.3 | | 215 | 200 | 107 | 10.8 | | 50-150 | 200 |
| Benzo(a)pyrene | 223 | 200 | 111 | | 229 | 200 | 114 | 2.76 | | 50-150 | 200 |
| Perylene | 215 | 200 | 107 | | 228 | 200 | 114 | 6.12 | | 50-150 | 200 |
| Indeno(1,2,3-c,d)pyrene | 224 | 200 | 112 | | 221 | 200 | 110 | 1.38 | | 50-150 | 200 |
| Dibenz(a,h)anthracene | 222 | 200 | 111 | | 219 | 200 | 110 | 1.21 | | 50-150 | 200 |
| Benzo(g,h,i)perylene | 226 | 200 | 113 | | 225 | 200 | 113 | 0.313 | | 50-150 | 200 |

| Labeled Standards | Type | LCS % Rec | LCS Quals | LCSD % Rec | LCSD Quals | Limits |
|-----------------------------|------|--------------|--------------|---------------|---------------|----------|
| d8-Naphthalene | IS | 66.1 | | 52.6 | | 50 - 150 |
| d8-Acenaphthylene | IS | 75.8 | | 66.6 | | 50 - 150 |
| d10-Acenaphthene | IS | 77.8 | | 70.9 | | 50 - 150 |
| d10-Fluorene | IS | 86.7 | | 81.9 | | 50 - 150 |
| d10-Phenanthrene | IS | 94.7 | | 85.6 | | 50 - 150 |
| d10-Fluoranthene | IS | 78.8 | | 80.6 | | 50 - 150 |
| d12-Benz(a)anthracene | IS | 80.8 | | 87.6 | | 50 - 150 |
| d12-Chrysene | IS | 85.0 | | 93.6 | | 50 - 150 |
| d12-Benzo(b)fluoranthene | IS | 71.2 | | 80.6 | | 50 - 150 |
| d12-Benzo(k)fluoranthene | IS | 82.0 | | 83.4 | | 50 - 150 |
| d12-Benzo(a)pyrene | IS | 73.8 | | 74.2 | | 50 - 150 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 86.6 | | 92.4 | | 50 - 150 |
| d14-Dibenz(a,h)anthracene | IS | 86.6 | | 89.3 | | 50 - 150 |
| d12-Benzo(g,h,i)perylene | IS | 85.6 | | 90.2 | | 50 - 150 |
| d10-Anthracene | AS | 76.7 | | 62.3 | | 50 - 150 |

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-01 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 17-Mar-21 15:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|-------|------------|-----------------|----------|
| Naphthalene | 3450000 | 12500 | D, E | 07-Apr-21 17:48 | 500 |
| 2-Methylnaphthalene | 1060000 | 5000 | D, E | 07-Apr-21 17:48 | 500 |
| Acenaphthylene | ND | 5000 | D | 07-Apr-21 17:48 | 500 |
| Acenaphthene | 8640 | 250 | D | 07-Apr-21 05:14 | 25 |
| Fluorene | 7490 | 250 | D | 07-Apr-21 05:14 | 25 |
| Phenanthrene | 7060 | 625 | D | 07-Apr-21 05:14 | 25 |
| Anthracene | 8580 | 250 | D | 07-Apr-21 05:14 | 25 |
| Fluoranthene | 351 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Pyrene | 786 | 250 | D | 07-Apr-21 05:14 | 25 |
| Benz(a)anthracene | 11.1 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Chrysene | 82.7 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Benzo(b)fluoranthene | 20.7 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 07-Apr-21 04:27 | 1 |
| Benzo(e)pyrene | 96.4 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Benzo(a)pyrene | 24.2 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Perylene | 10.1 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Indeno(1,2,3-c,d)pyrene | 31.4 | 10.0 | | 07-Apr-21 04:27 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 07-Apr-21 04:27 | 1 |
| Benzo(g,h,i)perylene | 251 | 10.0 | | 07-Apr-21 04:27 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 85.9 | 50 - 150 | D | 07-Apr-21 17:48 | 500 |
| d8-Acenaphthylene | IS | 96.4 | 50 - 150 | D | 07-Apr-21 17:48 | 500 |
| d10-Acenaphthene | IS | 77.1 | 50 - 150 | D | 07-Apr-21 05:14 | 25 |
| d10-Fluorene | IS | 74.5 | 50 - 150 | D | 07-Apr-21 05:14 | 25 |
| d10-Phenanthrene | IS | 62.3 | 50 - 150 | D | 07-Apr-21 05:14 | 25 |
| d10-Fluoranthene | IS | 77.8 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Benz(a)anthracene | IS | 99.1 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Chrysene | IS | 93.5 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Benzo(b)fluoranthene | IS | 74.4 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Benzo(k)fluoranthene | IS | 67.0 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Benzo(a)pyrene | IS | 66.5 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 61.1 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 70.4 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 59.9 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d14-Terphenyl | PS | 125 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d12-Benzo(e)pyrene | PS | 109 | 50 - 150 | | 07-Apr-21 04:27 | 1 |
| d10-Anthracene | AS | 67.2 | 50 - 150 | D | 07-Apr-21 05:14 | 25 |

RL - Reporting limit

Results reported to RL.

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-02 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 18-Mar-21 13:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|-------|------------|-----------------|----------|
| Naphthalene | 4070000 | 12500 | D, E | 07-Apr-21 19:20 | 500 |
| 2-Methylnaphthalene | 1380000 | 5000 | D, E | 07-Apr-21 19:20 | 500 |
| Acenaphthylene | ND | 5000 | D | 07-Apr-21 19:20 | 500 |
| Acenaphthene | 11700 | 250 | D | 07-Apr-21 07:35 | 25 |
| Fluorene | 7830 | 250 | D | 07-Apr-21 07:35 | 25 |
| Phenanthrene | 13800 | 625 | D | 07-Apr-21 07:35 | 25 |
| Anthracene | 6710 | 250 | D | 07-Apr-21 07:35 | 25 |
| Fluoranthene | 243 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Pyrene | 544 | 250 | D | 07-Apr-21 07:35 | 25 |
| Benz(a)anthracene | 11.5 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Chrysene | 88.0 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Benzo(b)fluoranthene | 14.6 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 07-Apr-21 01:17 | 1 |
| Benzo(e)pyrene | 68.3 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Benzo(a)pyrene | 16.0 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Perylene | 11.6 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Indeno(1,2,3-c,d)pyrene | 15.2 | 10.0 | | 07-Apr-21 01:17 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 07-Apr-21 01:17 | 1 |
| Benzo(g,h,i)perylene | 120 | 10.0 | | 07-Apr-21 01:17 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 103 | 50 - 150 | D | 07-Apr-21 19:20 | 500 |
| d8-Acenaphthylene | IS | 117 | 50 - 150 | D | 07-Apr-21 19:20 | 500 |
| d10-Acenaphthene | IS | 77.4 | 50 - 150 | D | 07-Apr-21 07:35 | 25 |
| d10-Fluorene | IS | 86.5 | 50 - 150 | D | 07-Apr-21 07:35 | 25 |
| d10-Phenanthrene | IS | 84.9 | 50 - 150 | D | 07-Apr-21 07:35 | 25 |
| d10-Fluoranthene | IS | 83.2 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Benz(a)anthracene | IS | 111 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Chrysene | IS | 106 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Benzo(b)fluoranthene | IS | 77.9 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Benzo(k)fluoranthene | IS | 67.3 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Benzo(a)pyrene | IS | 72.3 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 71.3 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 83.2 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 70.5 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d14-Terphenyl | PS | 129 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d12-Benzo(e)pyrene | PS | 118 | 50 - 150 | | 07-Apr-21 01:17 | 1 |
| d10-Anthracene | AS | 98.5 | 50 - 150 | D | 07-Apr-21 07:35 | 25 |

RL - Reporting limit

Results reported to RL.

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-03 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 19-Mar-21 13:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|-------|------------|-----------------|----------|
| Naphthalene | 3730000 | 12500 | D, E | 07-Apr-21 20:54 | 500 |
| 2-Methylnaphthalene | 1440000 | 5000 | D, E | 07-Apr-21 20:54 | 500 |
| Acenaphthylene | 5770 | 5000 | D | 07-Apr-21 20:54 | 500 |
| Acenaphthene | 12000 | 1000 | D | 07-Apr-21 11:32 | 100 |
| Fluorene | 8700 | 250 | D | 07-Apr-21 06:48 | 25 |
| Phenanthrene | 12100 | 625 | D | 07-Apr-21 06:48 | 25 |
| Anthracene | 7880 | 250 | D | 07-Apr-21 06:48 | 25 |
| Fluoranthene | 612 | 250 | D | 07-Apr-21 06:48 | 25 |
| Pyrene | 1330 | 250 | D | 07-Apr-21 06:48 | 25 |
| Benz(a)anthracene | 15.1 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Chrysene | 105 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Benzo(b)fluoranthene | 63.6 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Benzo(k)fluoranthene | 15.6 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Benzo(e)pyrene | 461 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Benzo(a)pyrene | 50.4 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Perylene | 10.8 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Indeno(1,2,3-c,d)pyrene | 92.4 | 10.0 | | 07-Apr-21 06:01 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 07-Apr-21 06:01 | 1 |
| Benzo(g,h,i)perylene | 630 | 250 | D | 07-Apr-21 06:48 | 25 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 90.8 | 50 - 150 | D | 07-Apr-21 20:54 | 500 |
| d8-Acenaphthylene | IS | 114 | 50 - 150 | D | 07-Apr-21 20:54 | 500 |
| d10-Acenaphthene | IS | 103 | 50 - 150 | D | 07-Apr-21 11:32 | 100 |
| d10-Fluorene | IS | 84.2 | 50 - 150 | D | 07-Apr-21 06:48 | 25 |
| d10-Phenanthrene | IS | 85.9 | 50 - 150 | D | 07-Apr-21 06:48 | 25 |
| d10-Fluoranthene | IS | 80.8 | 50 - 150 | D | 07-Apr-21 06:48 | 25 |
| d12-Benz(a)anthracene | IS | 108 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d12-Chrysene | IS | 104 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d12-Benzo(b)fluoranthene | IS | 86.9 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d12-Benzo(k)fluoranthene | IS | 75.5 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d12-Benzo(a)pyrene | IS | 75.1 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 67.9 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 80.2 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 68.0 | 50 - 150 | D | 07-Apr-21 06:48 | 25 |
| d14-Terphenyl | PS | 139 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d12-Benzo(e)pyrene | PS | 113 | 50 - 150 | | 07-Apr-21 06:01 | 1 |
| d10-Anthracene | AS | 70.3 | 50 - 150 | D | 07-Apr-21 06:48 | 25 |

RL - Reporting limit

Results reported to RL.

Sample ID: 21-0883 Outlet 1

CARB Method 429

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-04 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 17-Mar-21 15:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|------|------------|-----------------|----------|
| Naphthalene | 581 | 25.0 | | 06-Apr-21 22:57 | 1 |
| 2-Methylnaphthalene | 761 | 250 | D | 07-Apr-21 08:22 | 25 |
| Acenaphthylene | 27.2 | 10.0 | | 06-Apr-21 22:57 | 1 |
| Acenaphthene | 1080 | 250 | D | 07-Apr-21 08:22 | 25 |
| Fluorene | 2860 | 250 | D | 07-Apr-21 08:22 | 25 |
| Phenanthrene | 2860 | 625 | D | 07-Apr-21 08:22 | 25 |
| Anthracene | 74.5 | 10.0 | | 06-Apr-21 22:57 | 1 |
| Fluoranthene | 120 | 10.0 | | 06-Apr-21 22:57 | 1 |
| Pyrene | 167 | 10.0 | | 06-Apr-21 22:57 | 1 |
| Benz(a)anthracene | ND | 10.0 | | 06-Apr-21 22:57 | 1 |
| Chrysene | 23.2 | 10.0 | | 06-Apr-21 22:57 | 1 |
| Benzo(b)fluoranthene | ND | 10.0 | | 06-Apr-21 22:57 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 06-Apr-21 22:57 | 1 |
| Benzo(e)pyrene | 25.0 | 10.0 | | 06-Apr-21 22:57 | 1 |
| Benzo(a)pyrene | ND | 10.0 | | 06-Apr-21 22:57 | 1 |
| Perylene | ND | 10.0 | | 06-Apr-21 22:57 | 1 |
| Indeno(1,2,3-c,d)pyrene | 10.9 | 10.0 | | 06-Apr-21 22:57 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 06-Apr-21 22:57 | 1 |
| Benzo(g,h,i)perylene | 82.8 | 10.0 | | 06-Apr-21 22:57 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 51.4 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d8-Acenaphthylene | IS | 66.8 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d10-Acenaphthene | IS | 82.7 | 50 - 150 | D | 07-Apr-21 08:22 | 25 |
| d10-Fluorene | IS | 71.9 | 50 - 150 | D | 07-Apr-21 08:22 | 25 |
| d10-Phenanthrene | IS | 75.9 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d10-Fluoranthene | IS | 82.9 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Benz(a)anthracene | IS | 83.4 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Chrysene | IS | 82.5 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Benzo(b)fluoranthene | IS | 70.9 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Benzo(k)fluoranthene | IS | 66.1 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Benzo(a)pyrene | IS | 62.8 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 50.1 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 55.6 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 57.3 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d14-Terphenyl | PS | 116 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d12-Benzo(e)pyrene | PS | 123 | 50 - 150 | | 06-Apr-21 22:57 | 1 |
| d10-Anthracene | AS | 68.3 | 50 - 150 | | 06-Apr-21 22:57 | 1 |

RL - Reporting limit

Results reported to RL.

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-05 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 18-Mar-21 13:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|------|------------|-----------------|----------|
| Naphthalene | 350 | 25.0 | | 06-Apr-21 23:44 | 1 |
| 2-Methylnaphthalene | 461 | 250 | D | 07-Apr-21 09:09 | 25 |
| Acenaphthylene | 16.2 | 10.0 | | 06-Apr-21 23:44 | 1 |
| Acenaphthene | 709 | 250 | D | 07-Apr-21 09:09 | 25 |
| Fluorene | 1890 | 250 | D | 07-Apr-21 09:09 | 25 |
| Phenanthrene | 2850 | 625 | D | 07-Apr-21 09:09 | 25 |
| Anthracene | 65.2 | 10.0 | | 06-Apr-21 23:44 | 1 |
| Fluoranthene | 114 | 10.0 | | 06-Apr-21 23:44 | 1 |
| Pyrene | 192 | 10.0 | | 06-Apr-21 23:44 | 1 |
| Benz(a)anthracene | ND | 10.0 | | 06-Apr-21 23:44 | 1 |
| Chrysene | 16.9 | 10.0 | | 06-Apr-21 23:44 | 1 |
| Benzo(b)fluoranthene | ND | 10.0 | | 06-Apr-21 23:44 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 06-Apr-21 23:44 | 1 |
| Benzo(e)pyrene | 24.2 | 10.0 | | 06-Apr-21 23:44 | 1 |
| Benzo(a)pyrene | ND | 10.0 | | 06-Apr-21 23:44 | 1 |
| Perylene | ND | 10.0 | | 06-Apr-21 23:44 | 1 |
| Indeno(1,2,3-c,d)pyrene | 12.1 | 10.0 | | 06-Apr-21 23:44 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 06-Apr-21 23:44 | 1 |
| Benzo(g,h,i)perylene | 101 | 10.0 | | 06-Apr-21 23:44 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 52.2 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d8-Acenaphthylene | IS | 67.5 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d10-Acenaphthene | IS | 88.4 | 50 - 150 | D | 07-Apr-21 09:09 | 25 |
| d10-Fluorene | IS | 80.7 | 50 - 150 | D | 07-Apr-21 09:09 | 25 |
| d10-Phenanthrene | IS | 70.8 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d10-Fluoranthene | IS | 77.9 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Benz(a)anthracene | IS | 83.6 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Chrysene | IS | 83.5 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Benzo(b)fluoranthene | IS | 73.7 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Benzo(k)fluoranthene | IS | 67.3 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Benzo(a)pyrene | IS | 67.2 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 47.4 | 50 - 150 | H | 06-Apr-21 23:44 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 56.7 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 56.5 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d14-Terphenyl | PS | 124 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d12-Benzo(e)pyrene | PS | 119 | 50 - 150 | | 06-Apr-21 23:44 | 1 |
| d10-Anthracene | AS | 60.0 | 50 - 150 | | 06-Apr-21 23:44 | 1 |

RL - Reporting limit

Results reported to RL.

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-06 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 19-Mar-21 13:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|------|------------|-----------------|----------|
| Naphthalene | 254 | 25.0 | | 07-Apr-21 00:30 | 1 |
| 2-Methylnaphthalene | 373 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Acenaphthylene | 16.9 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Acenaphthene | 679 | 250 | D | 07-Apr-21 09:56 | 25 |
| Fluorene | 1700 | 250 | D | 07-Apr-21 09:56 | 25 |
| Phenanthrene | 2440 | 625 | D | 07-Apr-21 09:56 | 25 |
| Anthracene | 58.6 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Fluoranthene | 90.5 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Pyrene | 168 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Benz(a)anthracene | ND | 10.0 | | 07-Apr-21 00:30 | 1 |
| Chrysene | 13.8 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Benzo(b)fluoranthene | ND | 10.0 | | 07-Apr-21 00:30 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 07-Apr-21 00:30 | 1 |
| Benzo(e)pyrene | 31.7 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Benzo(a)pyrene | ND | 10.0 | | 07-Apr-21 00:30 | 1 |
| Perylene | ND | 10.0 | | 07-Apr-21 00:30 | 1 |
| Indeno(1,2,3-c,d)pyrene | 12.8 | 10.0 | | 07-Apr-21 00:30 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 07-Apr-21 00:30 | 1 |
| Benzo(g,h,i)perylene | 102 | 10.0 | | 07-Apr-21 00:30 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 50.2 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d8-Acenaphthylene | IS | 68.4 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d10-Acenaphthene | IS | 61.8 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d10-Fluorene | IS | 79.6 | 50 - 150 | D | 07-Apr-21 09:56 | 25 |
| d10-Phenanthrene | IS | 68.5 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d10-Fluoranthene | IS | 78.0 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Benz(a)anthracene | IS | 86.2 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Chrysene | IS | 82.2 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Benzo(b)fluoranthene | IS | 76.7 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Benzo(k)fluoranthene | IS | 70.0 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Benzo(a)pyrene | IS | 68.6 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 53.2 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 55.8 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 57.0 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d14-Terphenyl | PS | 124 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d12-Benzo(e)pyrene | PS | 117 | 50 - 150 | | 07-Apr-21 00:30 | 1 |
| d10-Anthracene | AS | 60.3 | 50 - 150 | | 07-Apr-21 00:30 | 1 |

RL - Reporting limit

Results reported to RL.

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-07 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 16-Mar-21 12:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|------|------------|-----------------|----------|
| Naphthalene | 398 | 25.0 | | 06-Apr-21 21:23 | 1 |
| 2-Methylnaphthalene | 128 | 10.0 | | 06-Apr-21 21:23 | 1 |
| Acenaphthylene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Acenaphthene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Fluorene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Phenanthrene | ND | 25.0 | | 06-Apr-21 21:23 | 1 |
| Anthracene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Fluoranthene | 24.8 | 10.0 | | 06-Apr-21 21:23 | 1 |
| Pyrene | 54.9 | 10.0 | | 06-Apr-21 21:23 | 1 |
| Benz(a)anthracene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Chrysene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Benzo(b)fluoranthene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Benzo(e)pyrene | 41.5 | 10.0 | | 06-Apr-21 21:23 | 1 |
| Benzo(a)pyrene | 12.4 | 10.0 | | 06-Apr-21 21:23 | 1 |
| Perylene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Indeno(1,2,3-c,d)pyrene | 23.4 | 10.0 | | 06-Apr-21 21:23 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 06-Apr-21 21:23 | 1 |
| Benzo(g,h,i)perylene | 167 | 10.0 | | 06-Apr-21 21:23 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 54.8 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d8-Acenaphthylene | IS | 66.4 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d10-Acenaphthene | IS | 64.4 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d10-Fluorene | IS | 73.2 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d10-Phenanthrene | IS | 88.2 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d10-Fluoranthene | IS | 83.3 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Benz(a)anthracene | IS | 91.3 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Chrysene | IS | 88.4 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Benzo(b)fluoranthene | IS | 81.9 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Benzo(k)fluoranthene | IS | 79.7 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Benzo(a)pyrene | IS | 77.7 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 72.6 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 82.5 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 80.7 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d14-Terphenyl | PS | 122 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d12-Benzo(e)pyrene | PS | 108 | 50 - 150 | | 06-Apr-21 21:23 | 1 |
| d10-Anthracene | AS | 66.2 | 50 - 150 | | 06-Apr-21 21:23 | 1 |

RL - Reporting limit

Results reported to RL.

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-08 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 16-Mar-21 12:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|------|------------|-----------------|----------|
| Naphthalene | 428 | 25.0 | | 06-Apr-21 22:10 | 1 |
| 2-Methylnaphthalene | 158 | 10.0 | | 06-Apr-21 22:10 | 1 |
| Acenaphthylene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Acenaphthene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Fluorene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Phenanthrene | 54.4 | 25.0 | | 06-Apr-21 22:10 | 1 |
| Anthracene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Fluoranthene | 22.6 | 10.0 | | 06-Apr-21 22:10 | 1 |
| Pyrene | 28.8 | 10.0 | | 06-Apr-21 22:10 | 1 |
| Benz(a)anthracene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Chrysene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Benzo(b)fluoranthene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Benzo(e)pyrene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Benzo(a)pyrene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Perylene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Indeno(1,2,3-c,d)pyrene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 06-Apr-21 22:10 | 1 |
| Benzo(g,h,i)perylene | 15.6 | 10.0 | | 06-Apr-21 22:10 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 54.2 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d8-Acenaphthylene | IS | 63.2 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d10-Acenaphthene | IS | 61.9 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d10-Fluorene | IS | 66.9 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d10-Phenanthrene | IS | 70.6 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d10-Fluoranthene | IS | 81.2 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Benz(a)anthracene | IS | 95.7 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Chrysene | IS | 94.0 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Benzo(b)fluoranthene | IS | 83.7 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Benzo(k)fluoranthene | IS | 80.8 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Benzo(a)pyrene | IS | 79.4 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 69.4 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 78.7 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 79.0 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d14-Terphenyl | PS | 122 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d12-Benzo(e)pyrene | PS | 103 | 50 - 150 | | 06-Apr-21 22:10 | 1 |
| d10-Anthracene | AS | 58.3 | 50 - 150 | | 06-Apr-21 22:10 | 1 |

RL - Reporting limit

Results reported to RL.

Sample ID: 21-0883 Reagent Blanks

CARB Method 429

| Client Data | | Laboratory Data | | | |
|-----------------|-------------------------|-----------------|------------|-----------------|-----------------|
| Name: | Alliance Source Testing | Lab Sample: | 2103102-09 | Date Received: | 23-Mar-21 12:54 |
| Project: | 21-0883 | QC Batch: | B1D0016 | Date Extracted: | 05-Apr-21 |
| Matrix: | Air Train | | | Column: | ZB-50 |
| Date Collected: | 16-Mar-21 12:00 | | | | |

| Analyte | Conc. (ng/Sample) | RL | Qualifiers | Analyzed | Dilution |
|-------------------------|-------------------|------|------------|-----------------|----------|
| Naphthalene | ND | 25.0 | | 06-Apr-21 20:36 | 1 |
| 2-Methylnaphthalene | 10.7 | 10.0 | | 06-Apr-21 20:36 | 1 |
| Acenaphthylene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Acenaphthene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Fluorene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Phenanthrene | ND | 25.0 | | 06-Apr-21 20:36 | 1 |
| Anthracene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Fluoranthene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Pyrene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Benz(a)anthracene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Chrysene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Benzo(b)fluoranthene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Benzo(k)fluoranthene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Benzo(e)pyrene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Benzo(a)pyrene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Perylene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Indeno(1,2,3-c,d)pyrene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Dibenz(a,h)anthracene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |
| Benzo(g,h,i)perylene | ND | 10.0 | | 06-Apr-21 20:36 | 1 |

| Labeled Standards | Type | % Recovery | Limits | Qualifiers | Analyzed | Dilution |
|-----------------------------|------|------------|----------|------------|-----------------|----------|
| d8-Naphthalene | IS | 78.5 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d8-Acenaphthylene | IS | 90.2 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d10-Acenaphthene | IS | 88.5 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d10-Fluorene | IS | 91.8 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d10-Phenanthrene | IS | 105 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d10-Fluoranthene | IS | 89.0 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d12-Benz(a)anthracene | IS | 87.4 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d12-Chrysene | IS | 93.3 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d12-Benzo(b)fluoranthene | IS | 88.9 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d12-Benzo(k)fluoranthene | IS | 88.6 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d12-Benzo(a)pyrene | IS | 78.9 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d12-Indeno(1,2,3-c,d)pyrene | IS | 87.4 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d14-Dibenz(a,h)anthracene | IS | 90.6 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d12-Benzo(g,h,i)perylene | IS | 88.6 | 50 - 150 | | 06-Apr-21 20:36 | 1 |
| d10-Anthracene | AS | 74.1 | 50 - 150 | | 06-Apr-21 20:36 | 1 |

RL - Reporting limit

Results reported to RL.

| | |
|---------|--|
| B | This compound was also detected in the method blank |
| Conc. | Concentration |
| CRS | Cleanup Recovery Standard |
| D | Dilution |
| DL | Detection Limit |
| E | The associated compound concentration exceeded the calibration range of the instrument |
| H | Recovery and/or RPD was outside laboratory acceptance limits |
| I | Chemical Interference |
| IS | Internal Standard |
| J | The amount detected is below the Reporting Limit/LOQ |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| M | Estimated Maximum Possible Concentration (CA Region 2 projects only) |
| MDL | Method Detection Limit |
| NA | Not applicable |
| ND | Not Detected |
| OPR | Ongoing Precision and Recovery sample |
| P | The reported concentration may include contribution from chlorinated diphenyl ether(s). |
| Q | The ion transition ratio is outside of the acceptance criteria. |
| RL | Reporting Limit |
| RL | For 537.1, the reported RLs are the MRLs. |
| TEQ | Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations. |
| TEQMax | TEQ calculation that uses the detection limit as the concentration for non-detects |
| TEQMin | TEQ calculation that uses zero as the concentration for non-detects |
| TEQRisk | TEQ calculation that uses ½ the detection limit as the concentration for non-detects |
| U | Not Detected (specific projects only) |
| * | See Cover Letter |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

| Accrediting Authority | Certificate Number |
|--|--------------------|
| Alaska Department of Environmental Conservation | 17-013 |
| Arkansas Department of Environmental Quality | 19-013-0 |
| California Department of Health – ELAP | 2892 |
| DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005 | 3091.01 |
| Florida Department of Health | E87777-23 |
| Hawaii Department of Health | N/A |
| Louisiana Department of Environmental Quality | 01977 |
| Maine Department of Health | 2018017 |
| Massachusetts Department of Environmental Protection | N/A |
| Michigan Department of Environmental Quality | 9932 |
| Minnesota Department of Health | 1521520 |
| New Hampshire Environmental Accreditation Program | 207718-B |
| New Jersey Department of Environmental Protection | 190001 |
| New York Department of Health | 11411 |
| Oregon Laboratory Accreditation Program | 4042-010 |
| Pennsylvania Department of Environmental Protection | 016 |
| Texas Commission on Environmental Quality | T104704189-19-10 |
| Vermont Department of Health | VT-4042 |
| Virginia Department of General Services | 10272 |
| Washington Department of Ecology | C584-19 |
| Wisconsin Department of Natural Resources | 998036160 |

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

| MATRIX: Air | |
|--|-----------|
| Description of Test | Method |
| Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans | EPA 23 |
| Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans | EPA TO-9A |

| MATRIX: Biological Tissue | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Drinking Water | |
|--|----------------|
| Description of Test | Method |
| 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS | EPA 1613/1613B |
| 1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS | EPA 522 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | ISO 25101 2009 |

| MATRIX: Non-Potable Water | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Dioxin by GC/HRMS | EPA 613 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Solids | |
|---|----------------|
| Description of Test | Method |
| Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613 |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |



CHAIN OF CUSTODY RECORD



FOR LABORATORY USE ONLY

Laboratory Project ID: 2103102 Temp 35.2°C

Storage ID: 6-9

Storage Secured:
Yes No

TAT: (Check One)
Standard 21 days
Rush (surcharge may apply)
 14 days 7 days Specify:

Project I.D.: **21-0883** P.O. #: **21-0883** Sampler: **AK**

Invoiced to: Name: **AP@stacktest.com** Company: **Alliacne Source Testing** Address: **10602 Walker** City: **Cypress** State: **CA** Zip: **90630** Ph#: **714 889 4000** Fax #: **x 7030**

Relinquished by: (Printed Name and Signature) *James Walker* Date: **3/13/11** Time: **13:45**

Relinquished by: (Printed Name and Signature) *Melissa Sparks* Date: **3/22/11** Time: **13:45**

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

Method of Shipment: _____
Tracking No.: _____

ATTN: **Katey**

| Sample ID | Date | Time | Location/Sample Description | Quantity | Type | Add Analyst(s) Requested | Container(s) |
|------------------------|------|-------|-----------------------------|----------|------|--------------------------|--------------|
| 21-0883 Inlet 1 | 3/17 | 15:00 | | 4 | A O | | |
| 21-0883 Inlet 2 | 3/18 | 13:00 | | 4 | A O | | |
| 21-0883 Inlet 3 | 3/19 | 13:00 | | 4 | A O | | |
| 21-0883 Outlet 1 | 3/17 | 15:00 | | 4 | A O | | |
| 21-0883 Outlet 2 | 3/18 | 13:00 | | 4 | A O | | |
| 21-0883 Outlet 3 | 3/19 | 13:00 | | 4 | A O | | |
| 21-0883 Inlet FB | 3/16 | 12:00 | | 6 | | | |
| 21-0883 Outlet FB | 3/16 | 12:00 | | 6 | | | |
| 21-0883 Reagent Blanks | 3/16 | 12:00 | | 1 | | | |

Special Instructions/Comments: **O - Stack gas inlet/out of control device**

A - Air

SEND
DOCUMENTATION
AND RESULTS TO:

Name: _____

Company: **Alliance Source Testing**

Address: **10602 Walker**

City: **Cypress** State: **CA** Zip: **90630**

Phone: **714 889 4000** Fax: **x 7030**

Email: **Charles.figueroa@stacktest.com**

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B=Blood/Serum
O = Other

*Bottle Preservative Type: T = Thiosulfate,

O = Other

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O = Other

Sample Log-In Checklist

Page # 1 of 2

Vista Work Order #: 2103102

TAT Std

| | | | | | | | |
|-----------------------------------|------------------------------------|-----|------------------------|-----------------------------|-----------------------|-----------------------|-------|
| Samples Arrival: | Date/Time <u>03/23/21 12:54</u> | | Initials: <u>KA</u> | | Location: <u>WR-2</u> | | |
| | Shelf/Rack: <u>N/A</u> | | | | | | |
| Delivered By: | FedEx | UPS | On Trac | GLS | DHL | <u>Hand Delivered</u> | Other |
| Preservation: | Ice | | <u>Blue Ice</u> | Techni Ice | | Dry Ice | None |
| Temp °C: <u>3.5</u> (uncorrected) | Probe used: <u>Y</u> <u>N</u> | | | Thermometer ID: <u>IR-4</u> | | | |
| Temp °C: <u>3.5</u> (corrected) | | | | | | | |

| | YES | NO | NA | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--|
| Shipping Container(s) Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Shipping Custody Seals Intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |
| Airbill <u>/</u> Trk # <u>N/A</u> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |
| Shipping Documentation Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |
| Shipping Container | <u>Vista</u> | Client | <u>Retain</u> | | | | |
| Return | Dispose | | | | | | |
| Chain of Custody / Sample Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Chain of Custody / Sample Documentation Complete? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | |
| Holding Time Acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| Logged In: | Date/Time <u>03/24/21 12:29</u> | | Initials: <u>KA</u> | | Location: <u>R-9</u> | | |
| Shelf/Rack: <u>N/A</u> | | | | | | | |
| COC Anomaly/Sample Acceptance Form completed? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Comments: Cooler 1 of 2

ⓐ The last 3 samples no bar matrix on the COC

Sample Log-In Checklist

Page # 2 of 2

Vista Work Order #: 2103102 TAT Std

| | | | | | | |
|-----------------------------------|------------------------------------|-----------------|------------------------|-----------------------------|-----------------------|-----------------------|
| Samples Arrival: | Date/Time <u>07/23/21 12:54</u> | | Initials: <u>KA</u> | | Location: <u>UR-2</u> | |
| | Shelf/Rack: <u>N/A</u> | | | | | |
| Delivered By: | FedEx | UPS | On Trac | GLS | DHL | <u>Hand Delivered</u> |
| Preservation: | Ice | <u>Blue Ice</u> | Techni Ice | Dry Ice | None | |
| Temp °C: <u>2.6</u> (uncorrected) | Probe used: Y <u>(N)</u> | | | Thermometer ID: <u>IR-4</u> | | |
| Temp °C: <u>2.6</u> (corrected) | | | | | | |

| | YES | NO | NA |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Shipping Container(s) Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Custody Seals Intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Airbill <u>/</u> Trk # <u>N/A</u> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Shipping Documentation Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Shipping Container | Vista | Client | Retain |
| Chain of Custody / Sample Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Chain of Custody / Sample Documentation Complete? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Holding Time Acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Logged In: | Date/Time <u>07/24/21 12:29</u> | Initials: <u>KA</u> | Location: <u>R-9</u> |
| | Shelf/Rack: <u>YA</u> | | |
| COC Anomaly/Sample Acceptance Form completed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments: Coole 2 of 2

① The last 3 samples, no has matrix on the COC

CoC/Label Reconciliation Report WO# 2103102

| LabNumber | CoC Sample ID | SampleAlias | Sample Date/Time | Container | BaseMatrix | Report Matrix | Sample Comments |
|------------|--------------------|-------------|------------------|--------------|------------|---------------|---|
| 2103102-01 | B 21-0883 Inlet 1 | | 17-Mar-21 15:00 | FH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-01 | C 21-0883 Inlet 1 | | 17-Mar-21 15:00 | BH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-01 | D 21-0883 Inlet 1 | | 17-Mar-21 15:00 | Filter | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-01 | E 21-0883 Inlet 1 | | 17-Mar-21 15:00 | XAD | Air | Air Train | <input checked="" type="checkbox"/> (B) |
| 2103102-02 | B 21-0883 Inlet 2 | | 18-Mar-21 13:00 | FH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-02 | C 21-0883 Inlet 2 | | 18-Mar-21 13:00 | BH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-02 | D 21-0883 Inlet 2 | | 18-Mar-21 13:00 | Filter | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-02 | E 21-0883 Inlet 2 | | 18-Mar-21 13:00 | XAD | Air | Air Train | <input checked="" type="checkbox"/> (B) |
| 2103102-03 | B 21-0883 Inlet 3 | | 19-Mar-21 13:00 | FH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-03 | C 21-0883 Inlet 3 | | 19-Mar-21 13:00 | BH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-03 | D 21-0883 Inlet 3 | | 19-Mar-21 13:00 | Filter | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-03 | E 21-0883 Inlet 3 | | 19-Mar-21 13:00 | XAD | Air | Air Train | <input checked="" type="checkbox"/> (B) |
| 2103102-04 | B 21-0883 Outlet 1 | | 17-Mar-21 15:00 | FH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-04 | C 21-0883 Outlet 1 | | 17-Mar-21 15:00 | BH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-04 | D 21-0883 Outlet 1 | | 17-Mar-21 15:00 | Filter | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-04 | E 21-0883 Outlet 1 | | 17-Mar-21 15:00 | XAD | Air | Air Train | <input checked="" type="checkbox"/> (B) |
| 2103102-05 | B 21-0883 Outlet 2 | | 18-Mar-21 13:00 | FH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-05 | C 21-0883 Outlet 2 | | 18-Mar-21 13:00 | BH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-05 | D 21-0883 Outlet 2 | | 18-Mar-21 13:00 | Filter | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-05 | E 21-0883 Outlet 2 | | 18-Mar-21 13:00 | XAD | Air | Air Train | <input checked="" type="checkbox"/> (B) |
| 2103102-06 | B 21-0883 Outlet 3 | | 19-Mar-21 13:00 | FH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-06 | C 21-0883 Outlet 3 | | 19-Mar-21 13:00 | BH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-06 | D 21-0883 Outlet 3 | | 19-Mar-21 13:00 | Filter | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-06 | E 21-0883 Outlet 3 | | 19-Mar-21 13:00 | XAD | Air | Air Train | <input checked="" type="checkbox"/> (B) |
| 2103102-07 | B 21-0883 Inlet FB | | 16-Mar-21 12:00 | FH Rinse | Air | Air Train | <input checked="" type="checkbox"/> (B) |
| 2103102-07 | C 21-0883 Inlet FB | | 16-Mar-21 12:00 | BH Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-07 | D 21-0883 Inlet FB | | 16-Mar-21 12:00 | IMP Contents | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-07 | E 21-0883 Inlet FB | | 16-Mar-21 12:00 | IMP Rinse | Air | Air Train | <input checked="" type="checkbox"/> |
| 2103102-07 | F 21-0883 Inlet FB | | 16-Mar-21 12:00 | Filter | Air | Air Train | <input checked="" type="checkbox"/> (B) |

WMS 03/24/21
 C

| | | | | | |
|------------|--------------------------|-------------------------------------|-------------------|-----|-----------|
| 2103102-07 | G 21-0883 Inlet FB | <input checked="" type="checkbox"/> | XAD | Air | Air Train |
| 2103102-08 | B 21-0883 Outlet FB | <input checked="" type="checkbox"/> | FH Rinse | Air | Air Train |
| 2103102-08 | C 21-0883 Outlet FB | <input checked="" type="checkbox"/> | BH Rinse | Air | Air Train |
| 2103102-08 | D 21-0883 Outlet FB | <input checked="" type="checkbox"/> | IMP Contents | Air | Air Train |
| 2103102-08 | E 21-0883 Outlet FB | <input checked="" type="checkbox"/> | IMP Rinse | Air | Air Train |
| 2103102-08 | F 21-0883 Outlet FB | <input checked="" type="checkbox"/> | Filter | Air | Air Train |
| 2103102-08 | G 21-0883 Outlet FB | <input checked="" type="checkbox"/> | XAD | Air | Air Train |
| 2103102-09 | B 21-0883 Reagent Blanks | <input checked="" type="checkbox"/> | Impinger Solution | Air | Air Train |

Checkmarks indicate that information on the COC reconciled with the sample label.
 Any discrepancies are noted in the following columns.

| | Yes | No | NA |
|---|-----|----|----|
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Adequate Sample Volume? | ✓ | | |
| Container Type Appropriate for Analysis(es) | ✓ | | |

Preservation Documented. Na2S2O3 Trizma NH4CH3CO2
 None
 all

Verified by/Date: WMS 03/24/21

- Comments:
- A no date/time listed on sample label
 - B sample label: TB Inlet (on petri dish)
sample label: TB IU (outside of bubblewrap)
 - C sample label: TB IU (outside of bubblewrap)
 - D sample label: TB Outlet (on petri dish)
sample label: TB OUT (outside of bubblewrap)
 - E sample label: TB Outlet (outside of bubblewrap)
 - F no time listed on sample label; dates reconcile

All sample ID's reconciled by handwritten cap label and by using Run ID/component



ANOMALY FORM

Vista Work Order 2103102

Initial/Date The following checked issues were noted during sample receipt and login:

- 1. **The samples were received out of temperature at (Wi-PHT):** _____
Was Ice present: Yes No Melted Blue Ice
- 2. The Chain-of-Custody (CoC) was not relinquished properly.
- 3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
- 4. The sample(s) did not include a sample collection time. All or Sample Name: _____
- 10/3/24/21 5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
- 8. Insufficient volume received for analysis. All or Sample Name: _____
- 9. The backup bottle was received broken. Sample Name: _____
- 10. CoC not received, illegible or destroyed.
- 11. The sample(s) were received out of holding time. All or Sample Name: _____
- 12. The CoC did not include an analysis. All or Sample Name: _____
- 13. Sample(s) received without collection date. All or Sample Name: _____
- 14. Sample(s) not received. All or Sample Name: _____
- 15. Sample(s) received broken. All or Sample Name: _____
- 16. An incorrect container-type was used. All or Sample Name: _____
- 17. Other:

Bolded items require sign-off

Client Contacted: _____

Date of Contact: _____

Vista Client Manager: _____

Resolution:

EXTRACTION INFORMATION

Process Sheet
Workorder: 2103102

PRIORITY

Prep Expiration: 2021-04-06
 Client: Alliance Source Testing

Workorder Due: 13-Apr-21 00:00

TAT: 21

Method: **CARB 429 Full List**
 Matrix: **Air**
 Client Matrix: Air Train

Prep Batch: B1D0016

Prep Data Entered: 04/06/21 RR
Date and Initials

Initial Sequence: S1D00009

| LabSampleID | Recon | ClientSampleID | Date Received | Location | Comments |
|-------------|-------------------------------------|------------------------|-----------------|----------|----------|
| 2103102-01 | <input checked="" type="checkbox"/> | 21-0883 Inlet 1 | 23-Mar-21 12:54 | R-9 | |
| 2103102-02 | <input checked="" type="checkbox"/> | 21-0883 Inlet 2 | 23-Mar-21 12:54 | R-9 | |
| 2103102-03 | <input checked="" type="checkbox"/> | 21-0883 Inlet 3 | 23-Mar-21 12:54 | R-9 | |
| 2103102-04 | <input checked="" type="checkbox"/> | 21-0883 Outlet 1 | 23-Mar-21 12:54 | R-9 | |
| 2103102-05 | <input checked="" type="checkbox"/> | 21-0883 Outlet 2 | 23-Mar-21 12:54 | R-9 | |
| 2103102-06 | <input checked="" type="checkbox"/> | 21-0883 Outlet 3 | 23-Mar-21 12:54 | R-9 | |
| 2103102-07 | <input checked="" type="checkbox"/> | 21-0883 Inlet FB | 23-Mar-21 12:54 | R-9 | |
| 2103102-08 | <input checked="" type="checkbox"/> | 21-0883 Outlet FB | 23-Mar-21 12:54 | R-9 | |
| 2103102-09 | <input checked="" type="checkbox"/> | 21-0883 Reagent Blanks | 23-Mar-21 12:54 | R-9 | |

Pre-Prep Check Out: NA

Prep Check Out: RR 04/05/21

Prep Reconciled Initials/Date: RR 04/05/21

Pre-Prep Check In: NA

Prep Check In: EMPTY

Spike Reconciled Initials/Date: ME 04/05/21

VialBoxID: B1EW

Misc. Notes

Batch No.: B1D0016

Samples: 2103102 - (01-03) "C500X"

used + 2 μ L of Final extract

$$FV_{\text{original}} = \frac{200\text{ng}}{500\mu\text{L}} \left(\frac{2\mu\text{L}}{1} \right) \rightarrow \frac{0.8\text{ng}}{\text{new FV}} \text{ added}$$

+ 25 μ L 20H2503 IS ^{V6}

+ 200 ng

IS 200.8 ng (new)

018-Naphthalene, d8-Acenaphthylene, and d10-Acenaphthene
@ same conc.

+ 25 μ L ^{RS} 20H2506 ^{V11}

extract: $\frac{100\text{ng}}{500}$ (2 μ L)

0.4 ng

+ 50 ng

RS 50.4 ng new

+ 948 μ L Hexane

new "original" extract @ 500x from original

PREPARATION BENCH SHEET

B1D0016

Matrix: Air

Method(s): CARB 429 Full List

Chemist: RR

Prep Date/Time: 05-Apr-21 07:34

Prepared using: HRMS - Soxhlet

| C | VISTA Sample ID | PUF/Trap Prep Date | XAD/PUF Lot# | IS/NS CHEM/WIT DATE | Impinger Extraction Date | AS CHEM/WIT DATE | SIGEL/ ABSG / Florisil / CC CHEM/DATE (Circle one) | RS CHEM/WIT DATE |
|--------------------------|-----------------|--------------------|--------------|---------------------|--------------------------|------------------|--|------------------|
| <input type="checkbox"/> | B1D0016-B1.K1 | 03/12/21 | 20L0403 | RR ME 04/05/21 | 04/05/21 | RR ME 04/05/21 | RR 04/06/21 NA | RR DT 04/06/21 |
| <input type="checkbox"/> | B1D0016-BS1 | | | | | | | |
| <input type="checkbox"/> | B1D0016-BSD1 | | | | | | | |
| <input type="checkbox"/> | 2103102-01 | | | | | | | |
| <input type="checkbox"/> | 2103102-02 | | | | | | | |
| <input type="checkbox"/> | 2103102-03 | | | | | | | |
| <input type="checkbox"/> | 2103102-04 | | | | | | | |
| <input type="checkbox"/> | 2103102-05 | | | | | | | |
| <input type="checkbox"/> | 2103102-06 | | | | | | | |
| <input type="checkbox"/> | 2103102-07 | | | | | | | |
| <input type="checkbox"/> | 2103102-08 | | | | | | | |
| <input type="checkbox"/> | 2103102-09 | | | | | | | |

① Particulate present in FH/BH. RR 04/05/21
 ② Samples have a strong odor. RR 04/05/21

*RR 04/05/21

| | | | | | | |
|------------------|------------------|------------------|------------------|-----------------|-------|---------------------------|
| IS Name | NS Name | AS Name | RS Name | Cycle #1 | Split | Check Out: |
| PCDD/F | PCDD/F | PCDD/F | PCDD/F | Start Date/Time | 1:4 | Chemist/Date: RR 04/05/21 |
| PCB | PCB | PCB | PCB | Stop Date/Time | 1:2 | Check In: |
| PAH 20H2503 25ul | PAH 20H2505 25ul | PAH 20H2504 25ul | PAH 20H2506 50ul | Final Volume(s) | 500ul | Chemist/Date: Empty |

Comments:
 1 = Sample approached dryness on rotovap
 2 = Sample bumped on rotovap; lost < 5%
 3 = Sample poured through Na2SO4 to remove water
 4 = Precipitate present at Final Volume

Batch: B1D0016

Matrix: Air

| LabNumber | WetWeight Initial (N/A) | % Solids (Extraction Solids) | DryWeight Initial (N/A) | Final (uL) | Extracted | Ext By | Spike | SpikeAmount (uL) | ClientMatrix | Analysis |
|--------------|----------------------------|---------------------------------|----------------------------|---------------|-----------------|--------|-----------|---------------------|--------------|--------------------|
| 2103102-01 | 1 | | | 500 ✓ | 05-Apr-21 07:34 | RR ✓ | | | Air Train | CARB 429 Full List |
| 2103102-02 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| 2103102-03 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| 2103102-04 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| 2103102-05 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| 2103102-06 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| 2103102-07 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| 2103102-08 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| 2103102-09 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | Air Train | CARB 429 Full List |
| B1D0016-BLK1 | 1 | | | 500 | 05-Apr-21 07:34 | RR | | | | QC |
| B1D0016-BS1 | 1 | | | 500 | 05-Apr-21 07:34 | RR | 20H2505 ✓ | 25 ✓ | | QC |
| B1D0016-BSD1 | 1 | | | 500 ✓ | 05-Apr-21 07:34 | RR ✓ | 20H2505 ✓ | 25 ✓ | | QC |

SAMPLE DATA – CARB METHOD 429

Quantify Sample Summary Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-12.qld

Last Altered: Wednesday, April 07, 2021 9:36:09 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 9:36:33 AM Pacific Daylight Time

4.7.2021
16 4.7.2021
C:\off\08/2021

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank

| # | Name | Resp | IS Resp | RRF | L w/vol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|--------------------------|--------|---------|-------|---------|---------|-------|---------|-------|---------|-------|------|--------|
| 1 | Naphthalene | 6.31e4 | 9.44e5 | 1.16 | 1.000 | 10.17 | 10.18 | 1.006 | 1.006 | NO | 11.5 | | 0.508 |
| 2 | Naphthalene-2nd | 6.16e3 | 9.44e5 | 0.128 | 1.000 | 10.17 | 10.16 | 1.006 | 1.004 | NO | 78.2 | | 7.84 |
| 3 | 2-Methylnaphthalene | 2.09e4 | 8.33e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 3.64 | | 0.181 |
| 4 | Acenaphthylene | 1.15e6 | 1.12 | 1.000 | 1.000 | 14.37 | | 1.003 | | YES | | | 0.272 |
| 5 | Acenaphthene | 3.33e3 | 8.33e5 | 1.10 | 1.000 | 14.70 | | 1.006 | | NO | | | 0.275 |
| 6 | Fluorene | 1.67e4 | 9.85e5 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 0.586 | | 0.770 |
| 7 | Phenanthrene | 1.62e6 | 1.19 | 1.000 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 1.74 | | 0.112 |
| 8 | Phenanthrene-2nd | 1.62e6 | 0.0925 | 1.000 | 1.000 | 18.33 | | 1.002 | | NO | | | 1.42 |
| 9 | Anthracene | 2.45e3 | 1.62e6 | 1.09 | 1.000 | 18.39 | 18.38 | 1.005 | 1.005 | NO | 0.277 | | 0.122 |
| 10 | Fluoranthene | 7.40e3 | 2.31e6 | 1.10 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 0.583 | | 0.0423 |
| 11 | Pyrene | 8.22e3 | 2.31e6 | 1.20 | 1.000 | 20.87 | 20.85 | 1.026 | 1.026 | NO | 0.593 | | 0.0388 |
| 12 | Benzo(a)anthracene | 9.35e2 | 1.59e6 | 0.961 | 1.000 | 23.20 | 23.20 | 1.003 | 1.003 | NO | 0.122 | | 0.0905 |
| 13 | Chrysene | 1.84e3 | 1.93e6 | 0.852 | 1.000 | 23.40 | 23.41 | 1.003 | 1.004 | NO | 0.224 | | 0.0819 |
| 14 | Benzo(b)fluoranthene | 3.31e3 | 3.05e6 | 1.10 | 1.000 | 27.02 | 27.01 | 1.005 | 1.005 | NO | 0.392 | | 0.118 |
| 15 | Benzo(k)fluoranthene | 3.99e6 | 3.99e6 | 1.04 | 1.000 | 27.11 | | 1.004 | | YES | | | 0.127 |
| 16 | Benzo(e)pyrene | 3.99e6 | 0.911 | 1.000 | 1.000 | 28.81 | | 1.067 | | NO | | | 0.145 |
| 17 | Benzo(a)pyrene | 3.02e6 | 1.02 | 1.000 | 1.000 | 29.06 | | 1.006 | | NO | | | 0.183 |
| 18 | Perylene | 3.02e6 | 0.987 | 1.000 | 1.000 | 29.80 | | 1.031 | | YES | | | 0.188 |
| 19 | Indeno(1,2,3-c,d)pyrene | 2.85e6 | 0.915 | 1.000 | 1.000 | 36.89 | | 1.007 | | YES | | | 0.309 |
| 20 | Benzo(g,h,i)perylene | 2.92e6 | 0.940 | 1.000 | 1.000 | 40.42 | | 1.009 | | YES | | | 0.321 |
| 21 | Dibenz(a,h)anthracene | 2.35e6 | 0.948 | 1.000 | 1.000 | 36.87 | | 1.011 | | YES | | | 0.406 |
| 22 | db-Naphthalene | 2.31e6 | 1.20 | 1.000 | 1.000 | 10.12 | 10.12 | 0.848 | 0.848 | NO | 68.0 | 34.0 | 0.0302 |
| 23 | db-Acenaphthylene | 1.15e6 | 2.31e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 110 | 55.0 | 0.0510 |
| 24 | d10-Acenaphthene | 8.33e5 | 2.31e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 122 | 60.8 | 0.0396 |
| 25 | d10-Fluorene | 9.85e5 | 2.31e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 152 | 75.9 | 0.0363 |
| 26 | d10-Phenanthrene | 1.62e6 | 2.31e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 191 | 95.5 | 0.0333 |
| 27 | d10-Fluoranthene | 2.31e6 | 2.31e6 | 1.29 | 1.000 | 20.33 | 20.33 | 0.977 | 0.977 | NO | 156 | 78.0 | 0.0130 |
| 28 | d12-Benz(a)anthracene | 1.59e6 | 2.31e6 | 0.900 | 1.000 | 23.11 | 23.14 | 1.110 | 1.112 | NO | 154 | 76.8 | 0.0364 |
| 29 | d12-Chrysene | 1.93e6 | 2.31e6 | 1.02 | 1.000 | 23.30 | 23.32 | 1.120 | 1.121 | NO | 164 | 82.1 | 0.0321 |
| 30 | d12-Benzo(b)fluoranthene | 3.05e6 | 1.67e6 | 1.18 | 1.000 | 26.90 | 26.89 | 0.907 | 0.907 | NO | 310 | 77.4 | 0.279 |
| 31 | d12-Benzo(k)fluoranthene | 3.99e6 | 1.67e6 | 1.50 | 1.000 | 27.01 | 27.00 | 0.911 | 0.910 | NO | 318 | 79.5 | 0.219 |

Quantify Sample Summary Report
 Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-12.qld

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 Printed: Wednesday, April 07, 2021 9:36:33 AM Pacific Daylight Time

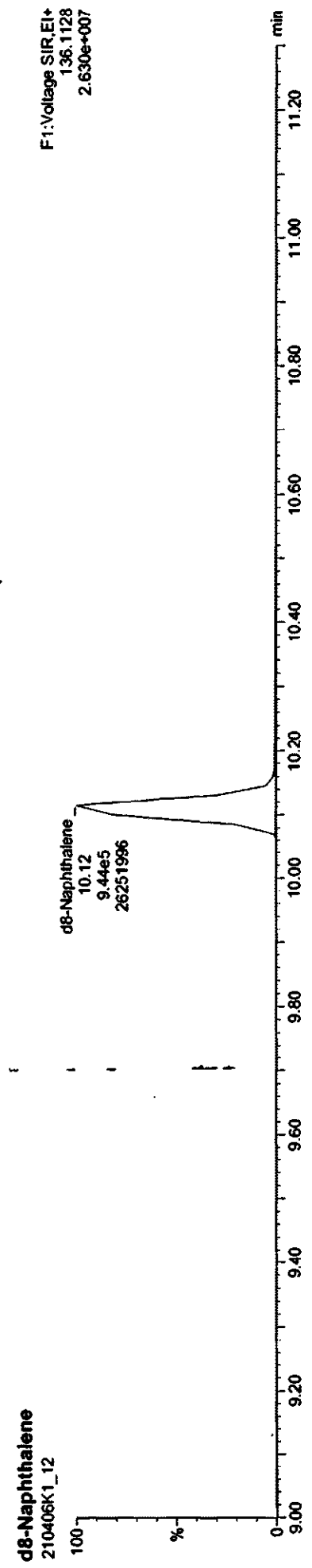
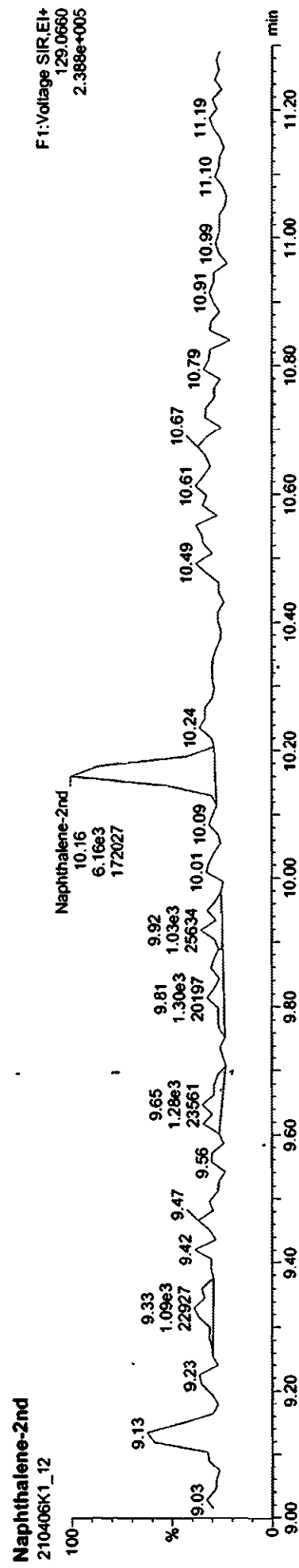
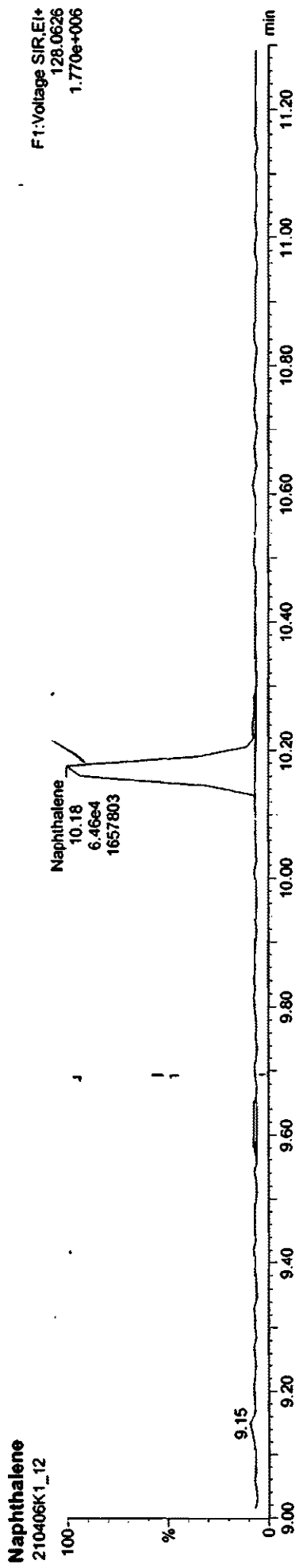
Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank

| DL | # Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Contc | %Rec |
|--------|--------------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|-------|------|
| 0.266 | 32 d12-Benzof(a)pyrene | 3.02e6 | 1.67e6 | 1.24 | 1.000 | 28.91 | 28.89 | 0.975 | 0.974 | NO | 292 | 73.0 |
| 0.327 | 33 d12-Indeno(1,2,3-c,d)pyrene | 2.85e6 | 1.67e6 | 1.02 | 1.000 | 36.97 | 36.64 | 1.247 | 1.236 | YES | 336 | 83.9 |
| 0.331 | 34 d12-Benzof(g,h,i)perylene | 2.92e6 | 1.67e6 | 1.00 | 1.000 | 40.39 | 40.05 | 1.362 | 1.351 | YES | 348 | 87.0 |
| 0.382 | 35 d14-Dibenz(a,h)anthracene | 2.35e6 | 1.67e6 | 0.765 | 1.000 | 36.75 | 36.46 | 1.239 | 1.230 | NO | 367 | 91.8 |
| 0.157 | 36 d10-Anthracene | 1.12e6 | 1.67e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 136 | 67.9 |
| 0.0282 | 37 d14-Terphenyl | 3.74e6 | 2.31e6 | 0.576 | 1.000 | 20.70 | 20.72 | 1.018 | 1.019 | NO | 561 | 112 |
| 0.281 | 38 d12-Benzof(e)pyrene | 3.81e6 | 3.99e6 | 0.738 | 1.000 | 28.62 | 28.64 | 1.060 | 1.061 | NO | 518 | 104 |
| 0.0335 | 39 d10-1-Methylnaphthalene | 1.70e6 | 1.70e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 |
| 0.0168 | 40 d10-Pyrene | 2.31e6 | 2.31e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 |
| 0.330 | 41 d12-Perylene | 1.67e6 | 1.67e6 | 1.00 | 1.000 | 29.59 | 29.65 | 1.000 | 1.000 | NO | 200 | 100 |

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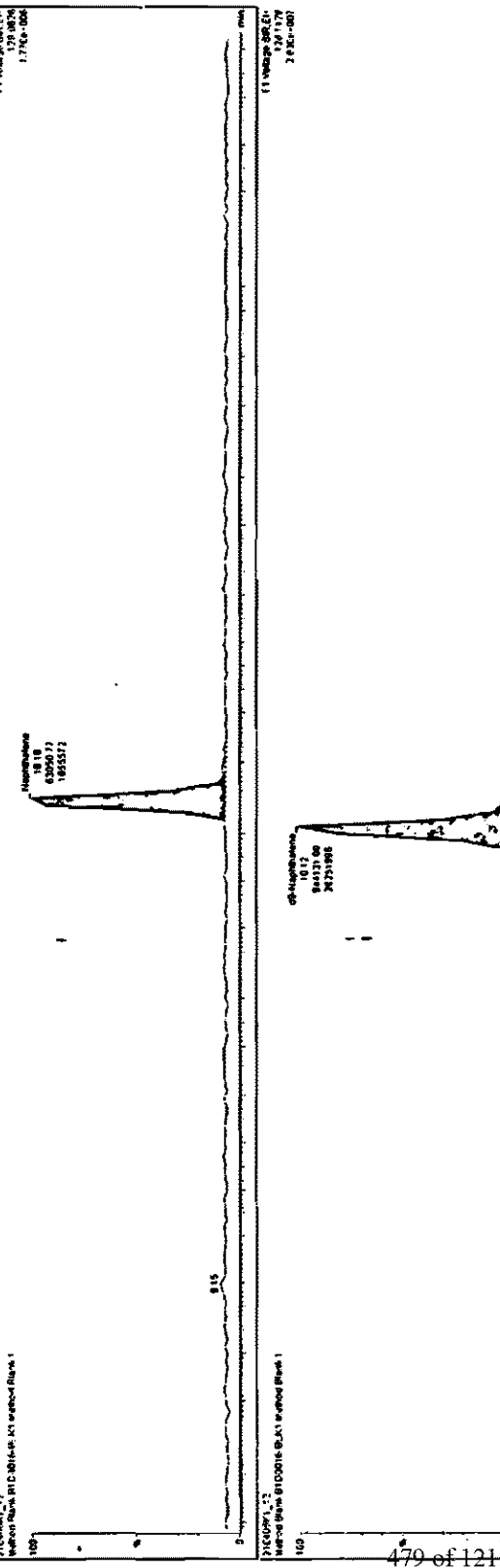
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank



11 Peaks in Spectrum

| Peak # | Retention Time (min) | Area | Height | Width | Signal-to-Noise Ratio | Integration | Integration Error | Integration Method |
|--------|----------------------|-------|--------|-------|-----------------------|-------------|-------------------|--------------------|
| 1 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 2 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 3 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 4 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 5 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 6 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 7 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 8 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 9 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 10 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |
| 11 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 | 1.143 |



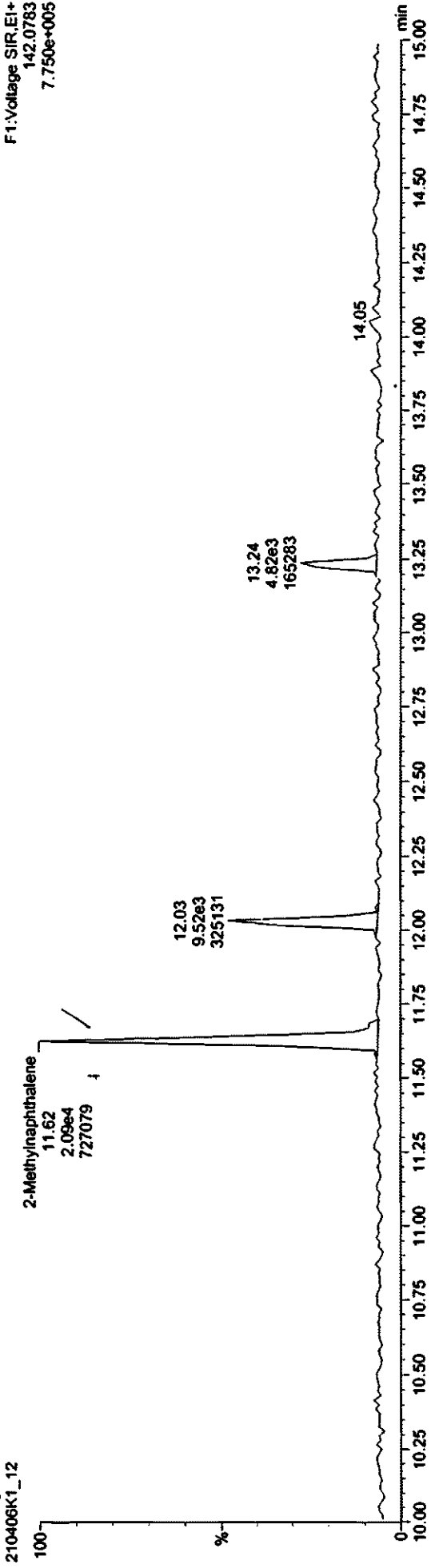
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank

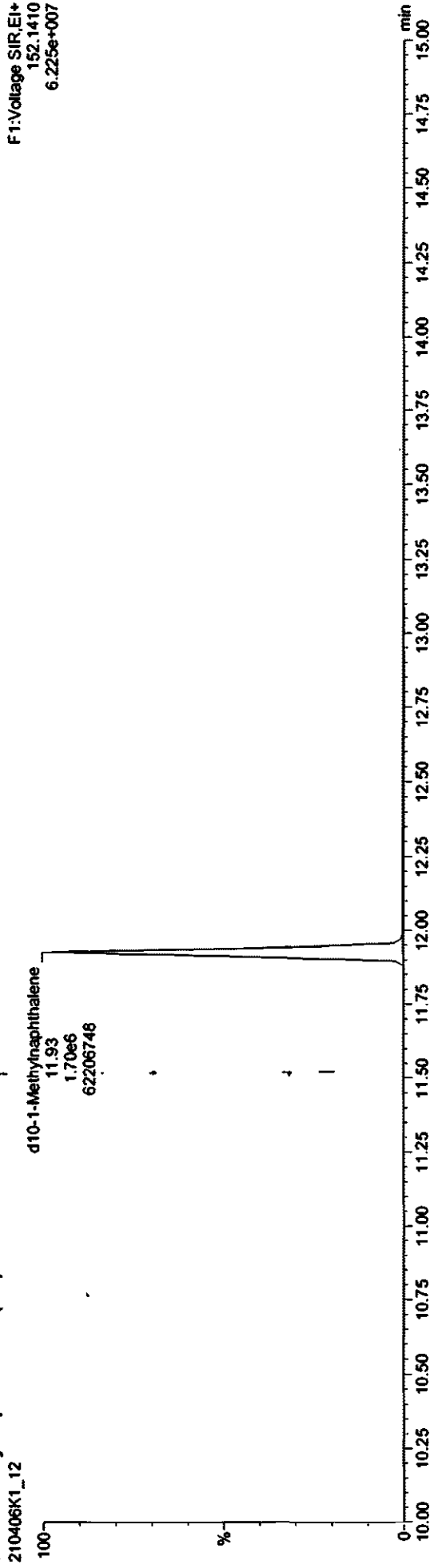
2-Methylnaphthalene

F1:Voltage SIR,EI+
142.0783
7.750e+005



d10-1-Methylnaphthalene (RS)

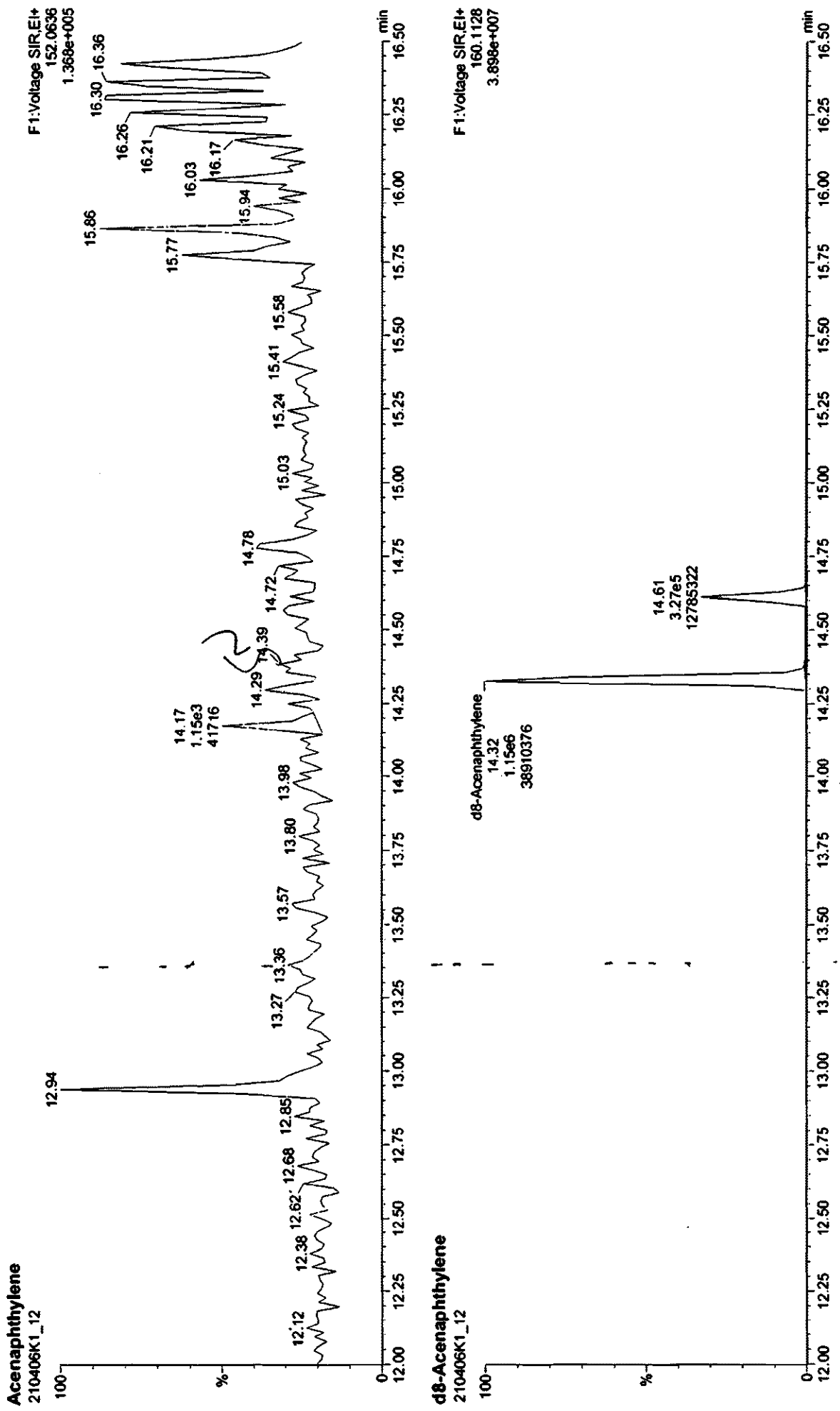
F1:Voltage SIR,EI+
152.1410
6.225e+007



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

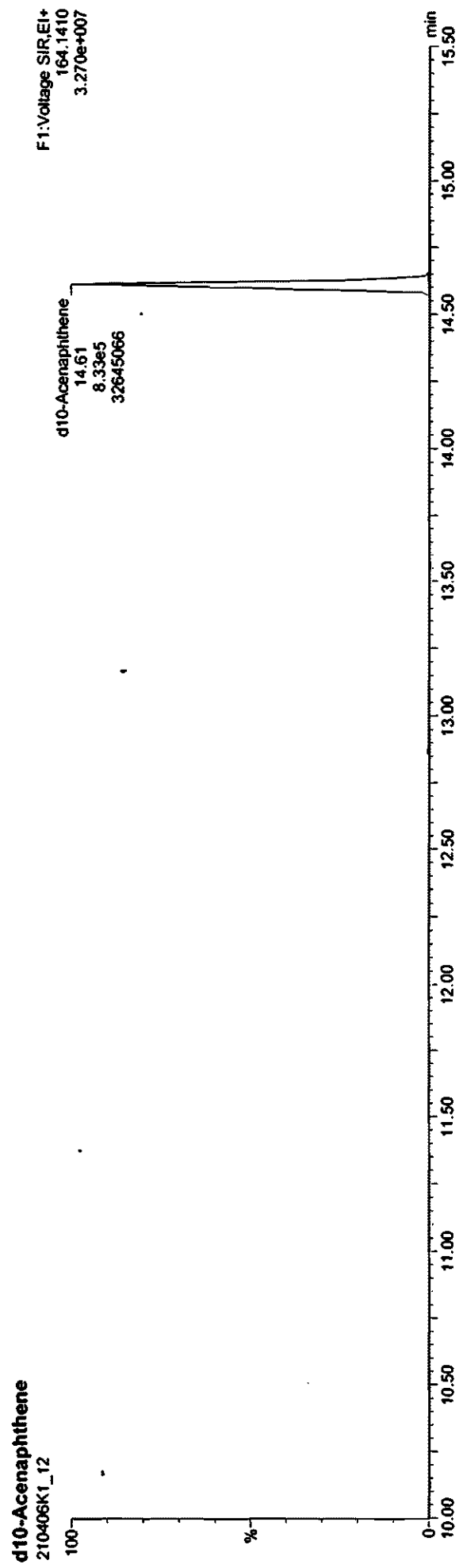
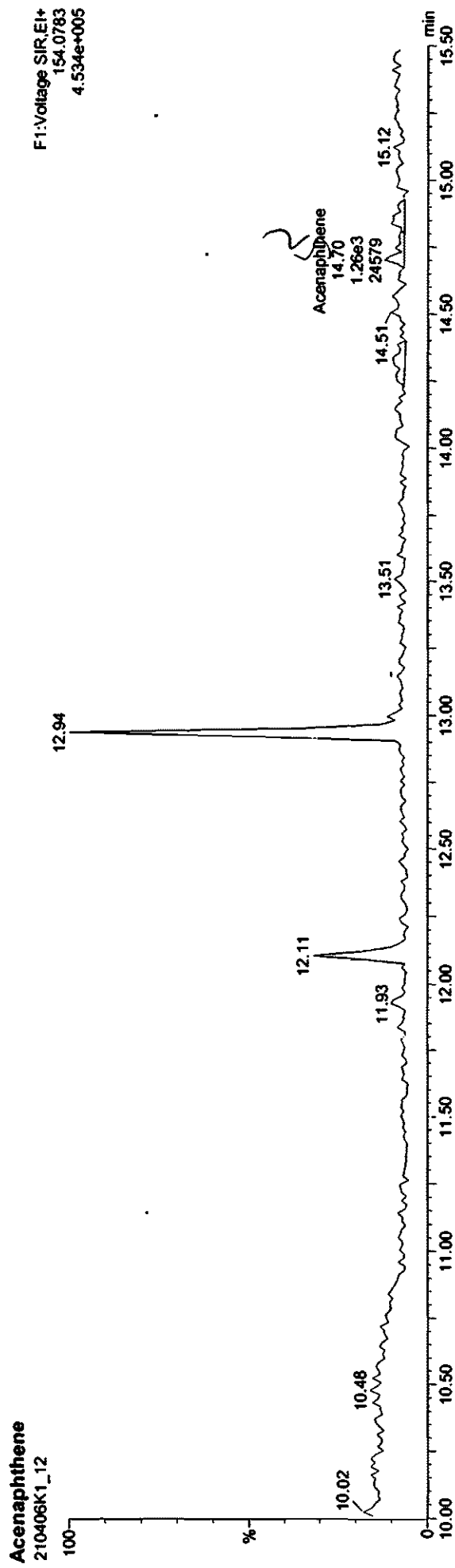
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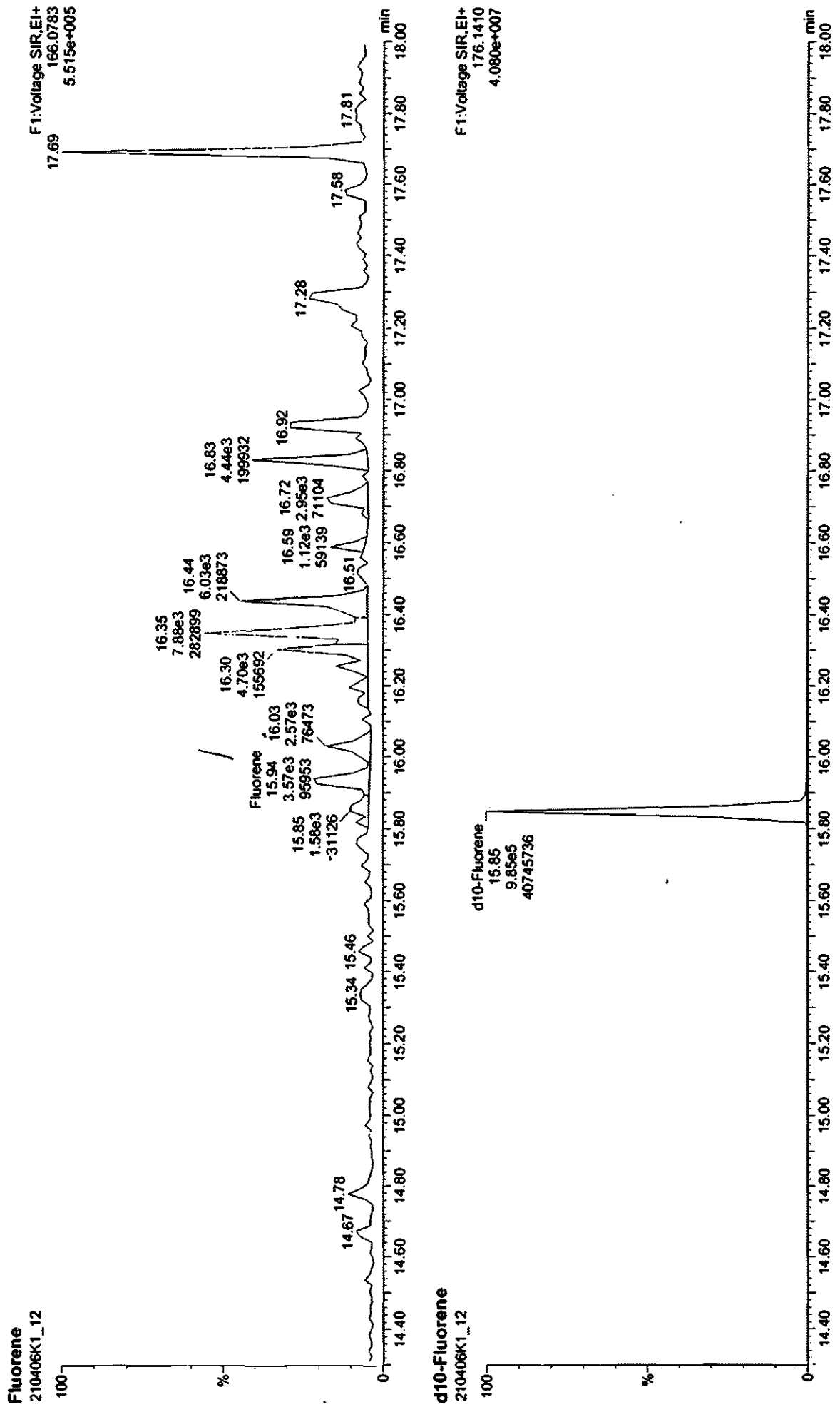
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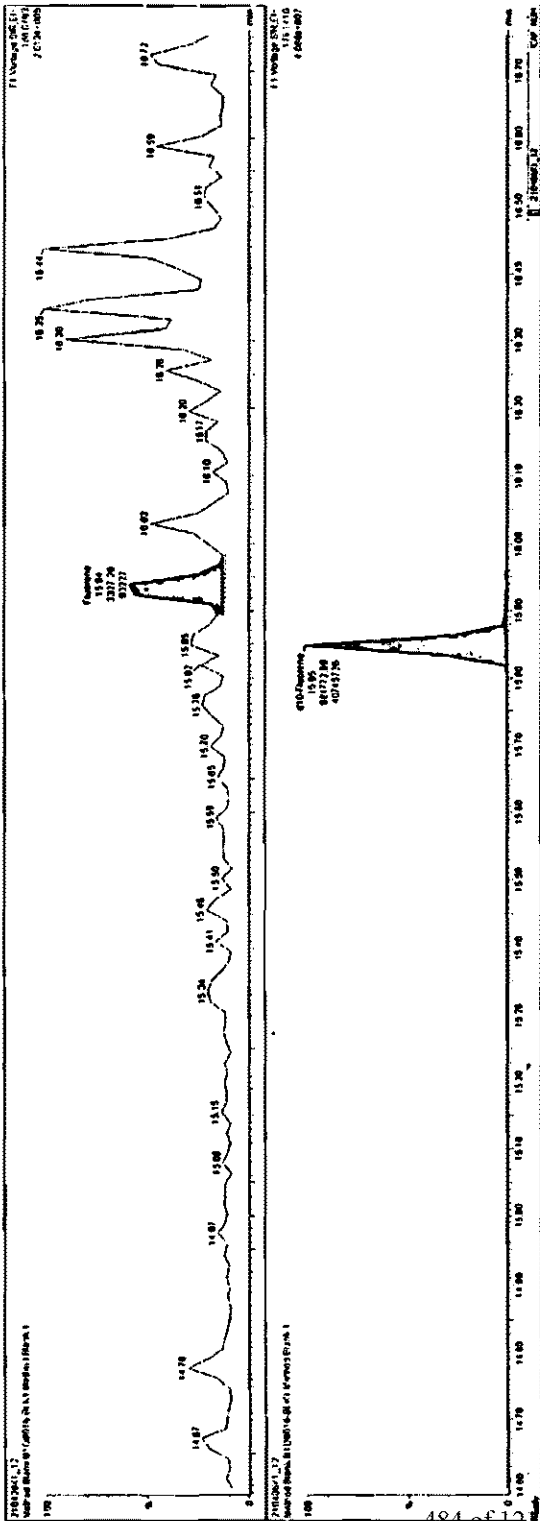
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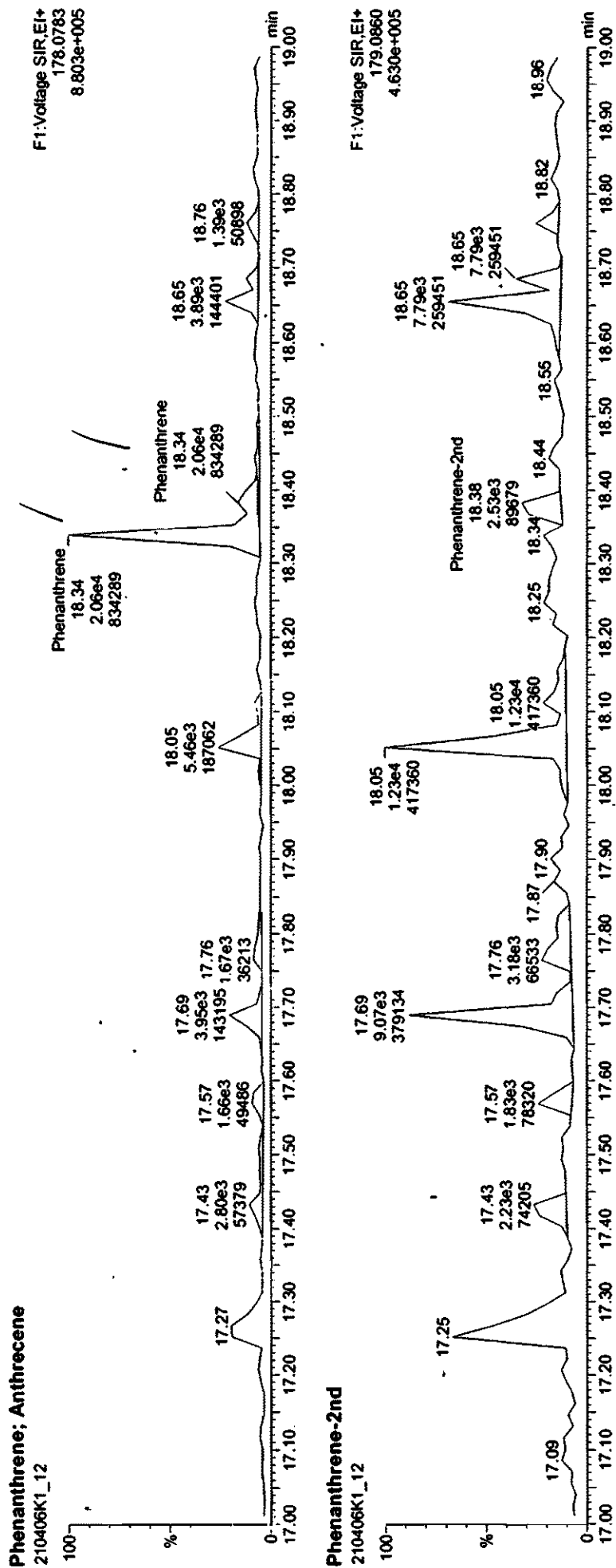
| Time | Area | Height | Width | Skew | Tail | Off | Area% |
|-------|---------|---------|---------|---------|---------|---------|-------|
| 14.87 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 14.90 | 2327.76 | 2327.76 | 2327.76 | 2327.76 | 2327.76 | 2327.76 | 0.000 |
| 14.93 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 14.96 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.00 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.04 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.08 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.12 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.16 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.20 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.24 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.28 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.32 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.36 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.40 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.44 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.48 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.52 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.56 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.60 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.64 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.68 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.72 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.76 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.80 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.84 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.88 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.92 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 15.96 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.00 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.04 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.08 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.12 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.16 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.20 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.24 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.28 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.32 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.36 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.40 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.44 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.48 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.52 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.56 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.60 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.64 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.68 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.72 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.76 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.80 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.84 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.88 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.92 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 16.96 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |
| 17.00 | 11584 | 11584 | 11584 | 11584 | 11584 | 11584 | 0.000 |



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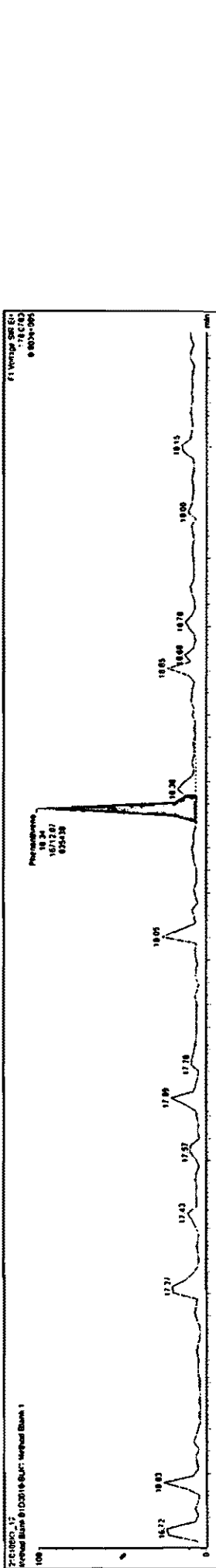
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank



ANALYSIS OF BLOOD SAMPLE FROM I 100-010A

| Name | RT | Area | Height | WT | Peak ID | MTW | Area | Height | Area % |
|------|-------|----------|----------|-------|---------|-----|------|--------|--------|
| 1 | 16.22 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 2 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 3 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 4 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 5 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 6 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 7 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 8 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 9 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 10 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 11 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 12 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 13 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 14 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 15 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 16 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 17 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 18 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 19 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 20 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 21 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 22 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 23 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 24 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 25 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 26 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 27 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 28 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 29 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 30 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 31 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 32 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 33 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 34 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 35 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 36 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 37 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 38 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 39 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |
| 40 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 | 1 | NO | 11.3 | 19.26 | 0.000 |



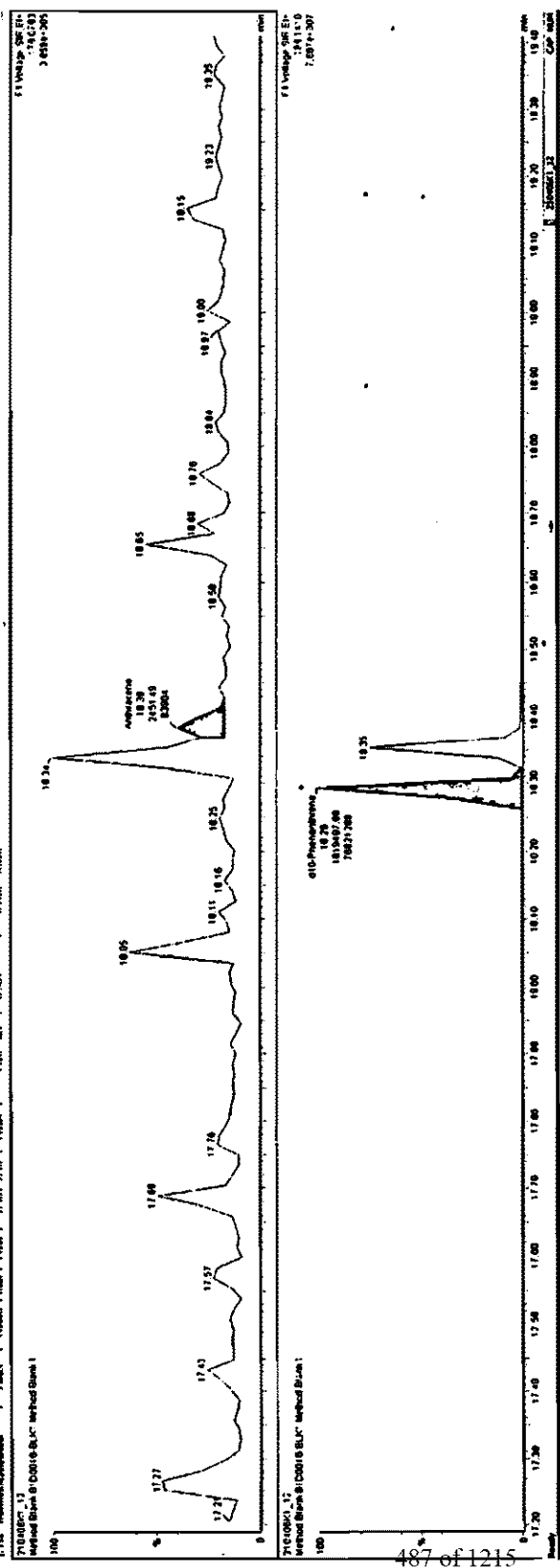
7/16/2011 11:30 AM
Method Blank 1 (2:20:18 BLU) Method Blank 1

| Name | RT | Area | Height | Area % |
|------|-------|----------|----------|--------|
| 1 | 16.22 | 8.04E+05 | 1.05E+08 | 10.17 |
| 2 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 3 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 4 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 5 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 6 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 7 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 8 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 9 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 10 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 11 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 12 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 13 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 14 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 15 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 16 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 17 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 18 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 19 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 20 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 21 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 22 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 23 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 24 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 25 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 26 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 27 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 28 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 29 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 30 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 31 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 32 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 33 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 34 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 35 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 36 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 37 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 38 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 39 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |
| 40 | 16.27 | 8.04E+05 | 1.05E+08 | 10.17 |

Agilent ChemStation - Chromatogram

Method: C:\MSDCHEM\1\METHODS\001\METHOD1.D

| Peak | Retention Time (min) | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height | |
|------|----------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|------|--------|-------|--------|------|--------|-------|--------|--|
| 1 | 11.77 | 11564 | 11186 | 1.000 | 14.97 | 1.00 | 955 | 0.777 | | | | | | | | | | | | | | |
| 2 | 17.43 | 32563 | 82645 | 1.129 | 1.000 | 14.96 | 1.81 | 900 | 0.770 | 0.000 | | | | | | | | | | | | |
| 3 | 17.57 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 4 | 17.76 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 5 | 18.05 | 27653 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 6 | 18.25 | 27653 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 7 | 18.35 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 8 | 18.58 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 9 | 18.76 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 10 | 18.95 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 11 | 19.05 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 12 | 19.15 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 13 | 19.23 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |
| 14 | 19.35 | 18204 | 10925 | 1.000 | 18.34 | 1.00 | 900 | 0.770 | 0.000 | | | | | | | | | | | | | |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

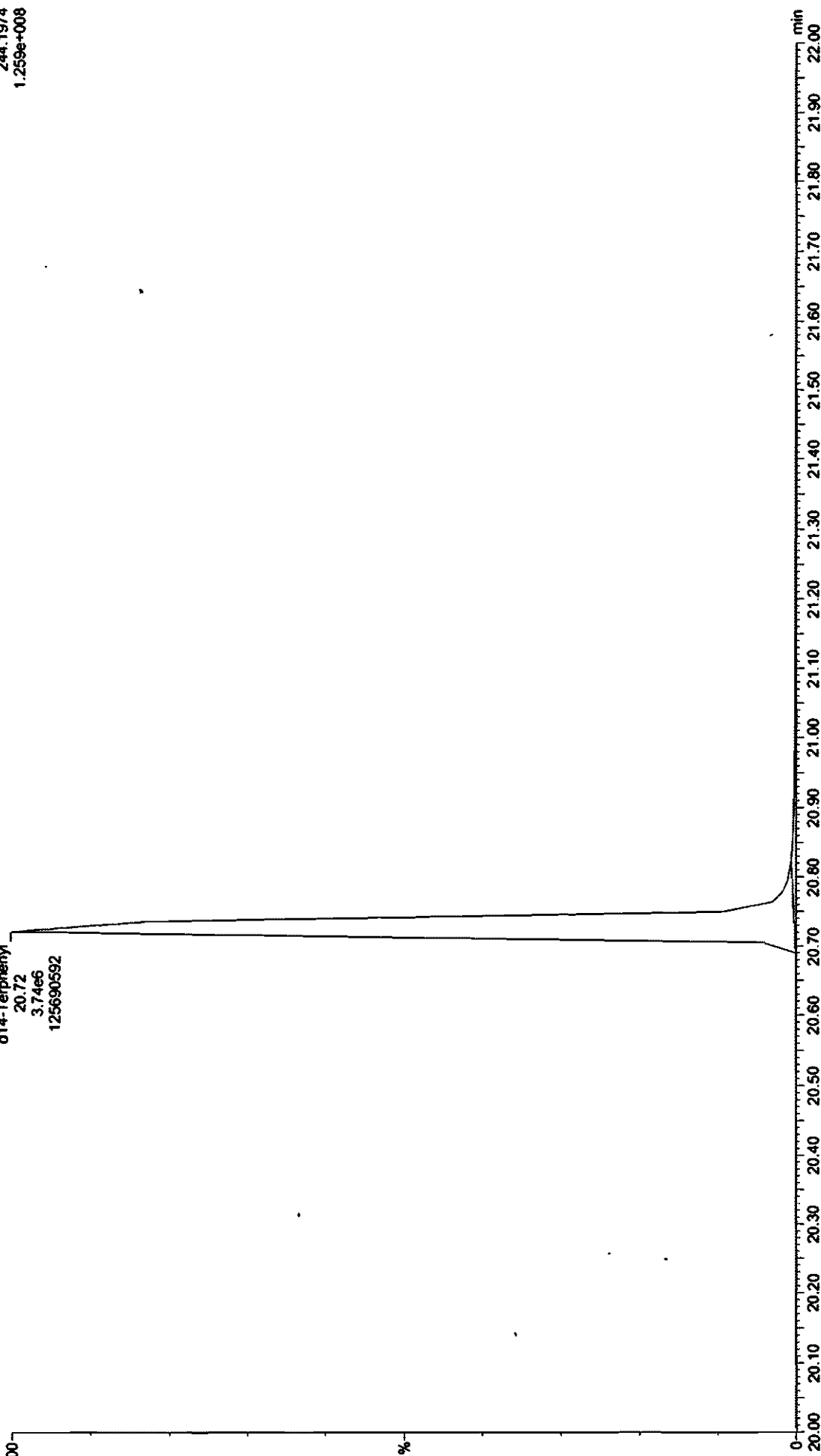
Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank

d14-Terphenyl (PS)

210406K1_12

d14-Terphenyl
20.72
3.74e6
125690592

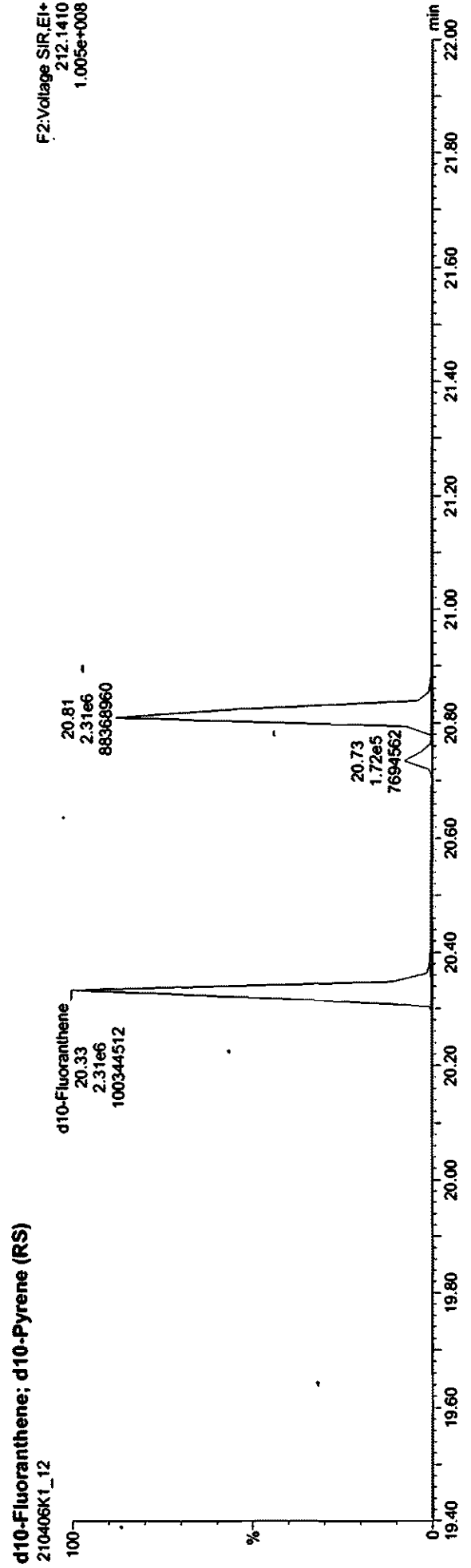
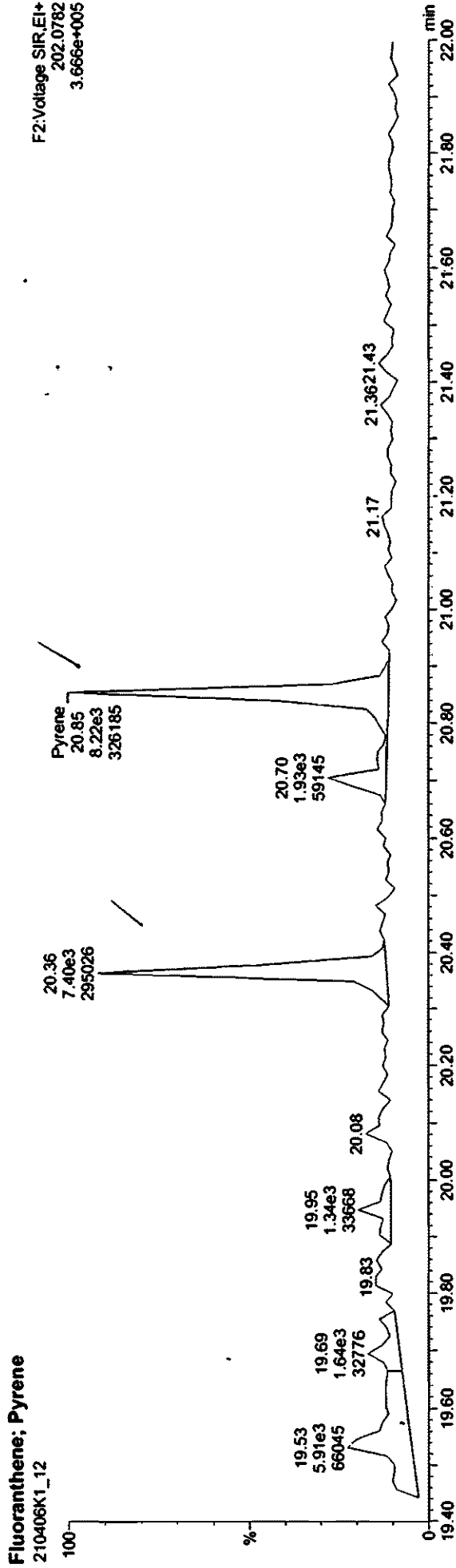
F2:Voltage SIR.EI+
244.1974
1.259e+008



Dataset: Untitled

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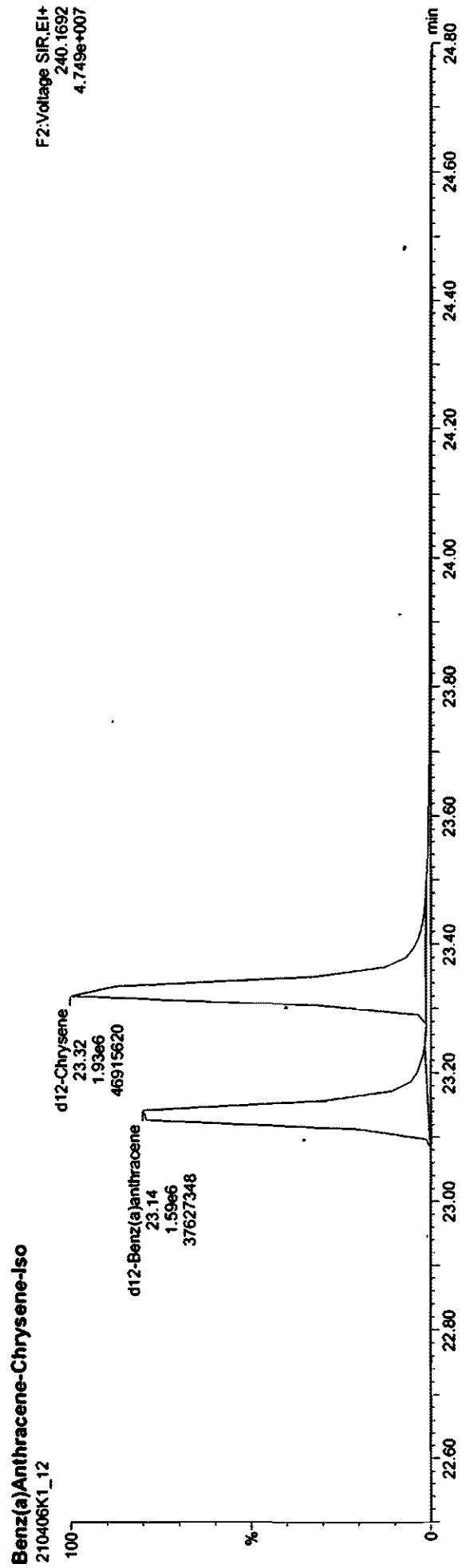
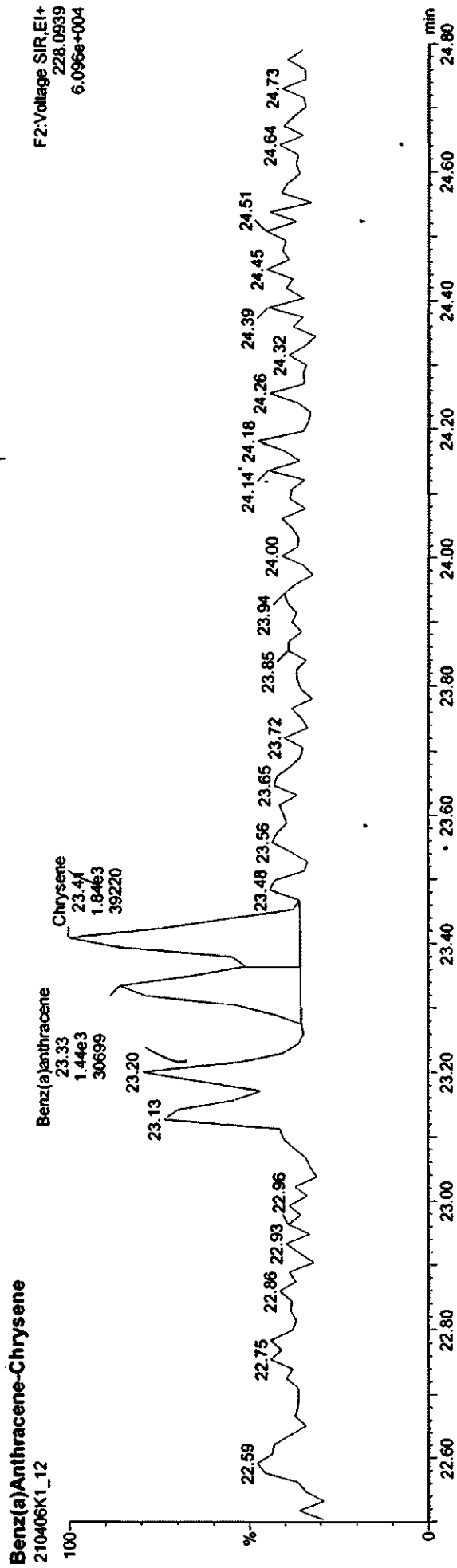
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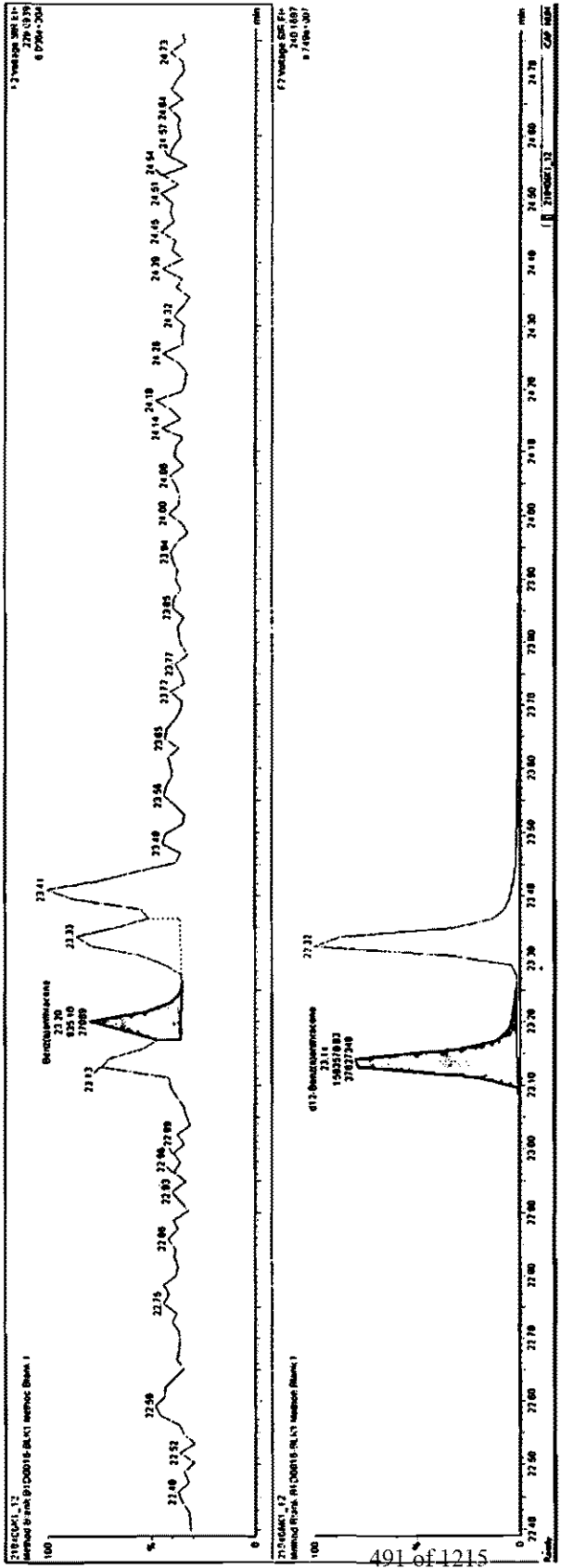
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank



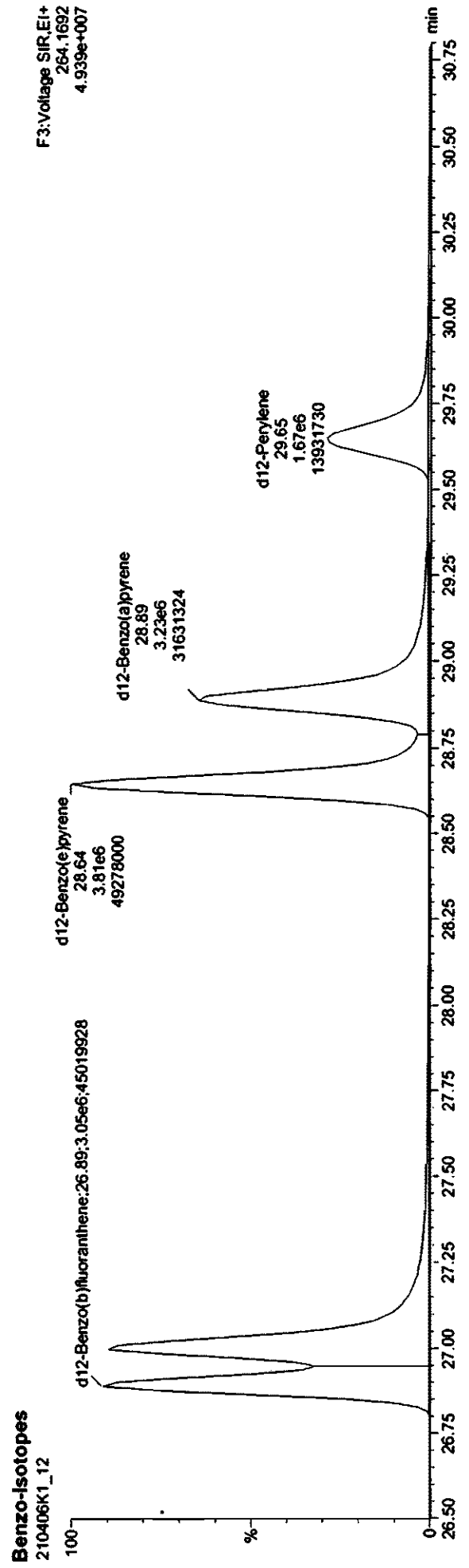
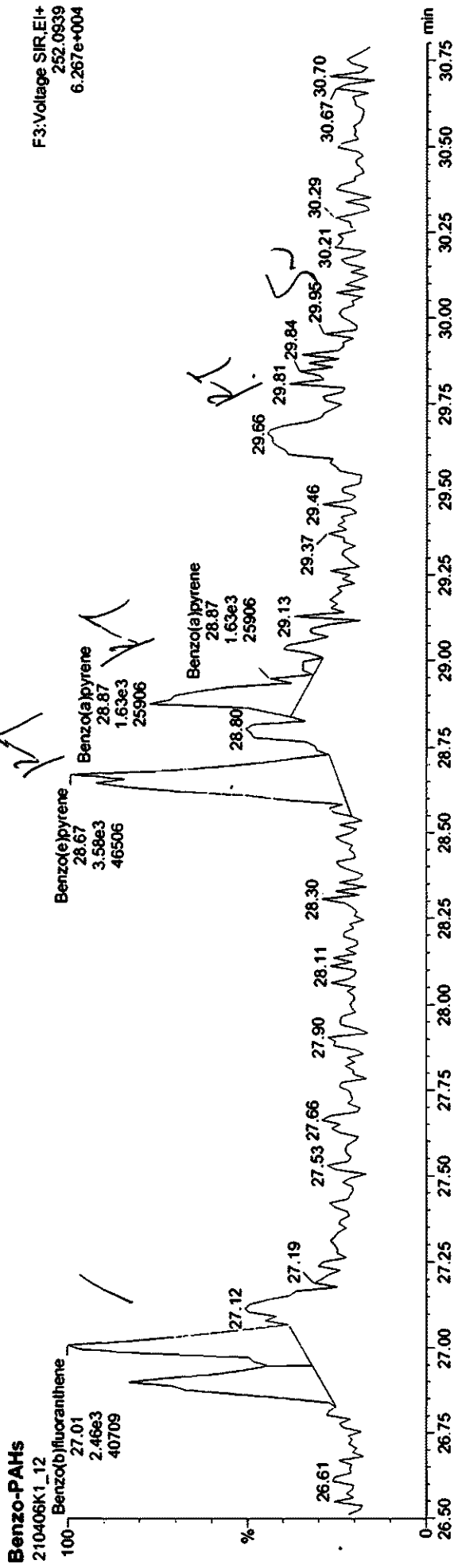
| RT | Area | Height | Area% | Height% | Ident | Peak Area | RT (min) | Conc (mg/L) | CL |
|-------|------------|--------|-------|---------|----------------------|------------|----------|-------------|--------|
| 21.48 | 1582519.83 | 321.00 | 15.00 | 15.00 | Benzocyclopentadiene | 1582519.83 | 21.48 | 15.00 | 0.0000 |
| 27.21 | 3782724.8 | 321.00 | 35.00 | 35.00 | Benzocyclopentadiene | 3782724.8 | 27.21 | 35.00 | 0.0000 |
| 27.21 | 1582519.83 | 321.00 | 15.00 | 15.00 | Benzocyclopentadiene | 1582519.83 | 27.21 | 15.00 | 0.0000 |
| 27.21 | 3782724.8 | 321.00 | 35.00 | 35.00 | Benzocyclopentadiene | 3782724.8 | 27.21 | 35.00 | 0.0000 |



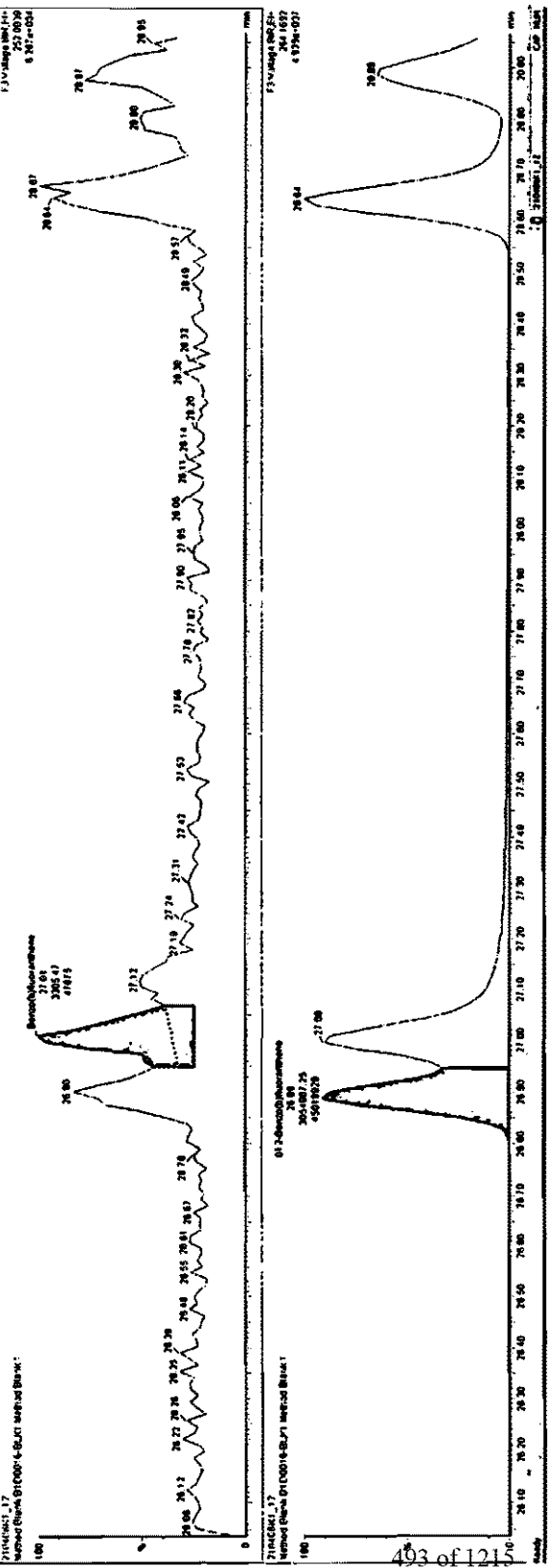
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank



| Peak | RT | Area | Height | Wt % | Area % | Height % | Area % | Height % |
|------|-------|-------|--------|-------|--------|----------|--------|----------|
| 1 | 26.87 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 2 | 26.88 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 3 | 26.89 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 4 | 26.90 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 5 | 26.91 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 6 | 26.92 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 7 | 26.93 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 8 | 26.94 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 9 | 26.95 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 10 | 26.96 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 11 | 26.97 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 12 | 26.98 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 13 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 14 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 15 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 16 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 17 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 18 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 19 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 20 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 21 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 22 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 23 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 24 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 25 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 26 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 27 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 28 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 29 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 30 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 31 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 32 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 33 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 34 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 35 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 36 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 37 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 38 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 39 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 40 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 41 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 42 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 43 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 44 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 45 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 46 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 47 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 48 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 49 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |
| 50 | 26.99 | 11500 | 1000 | 10.17 | 10.17 | 10.17 | 10.17 | 10.17 |

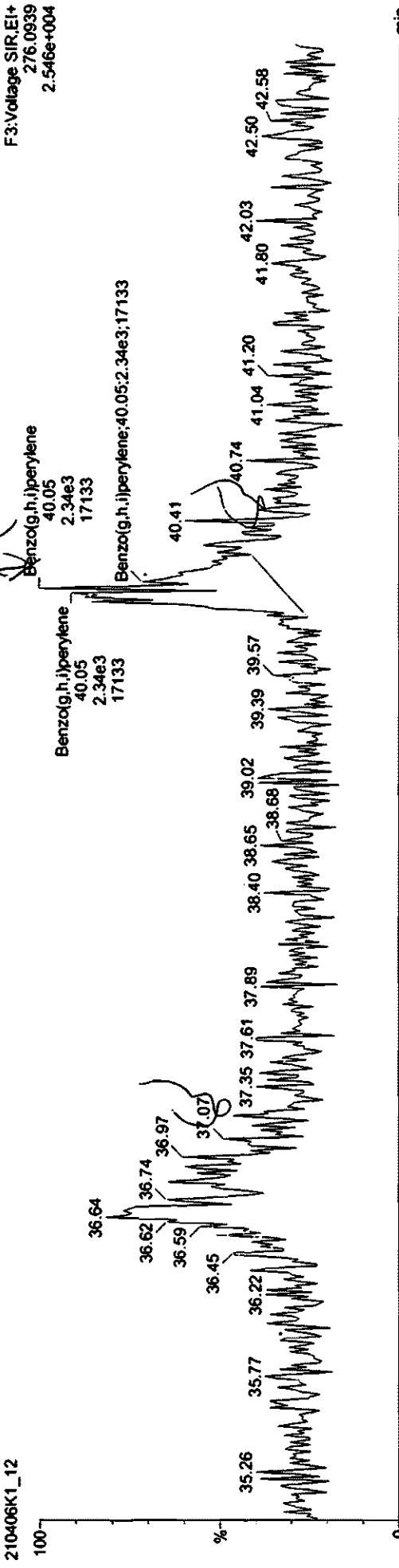


Dataset: Untitled

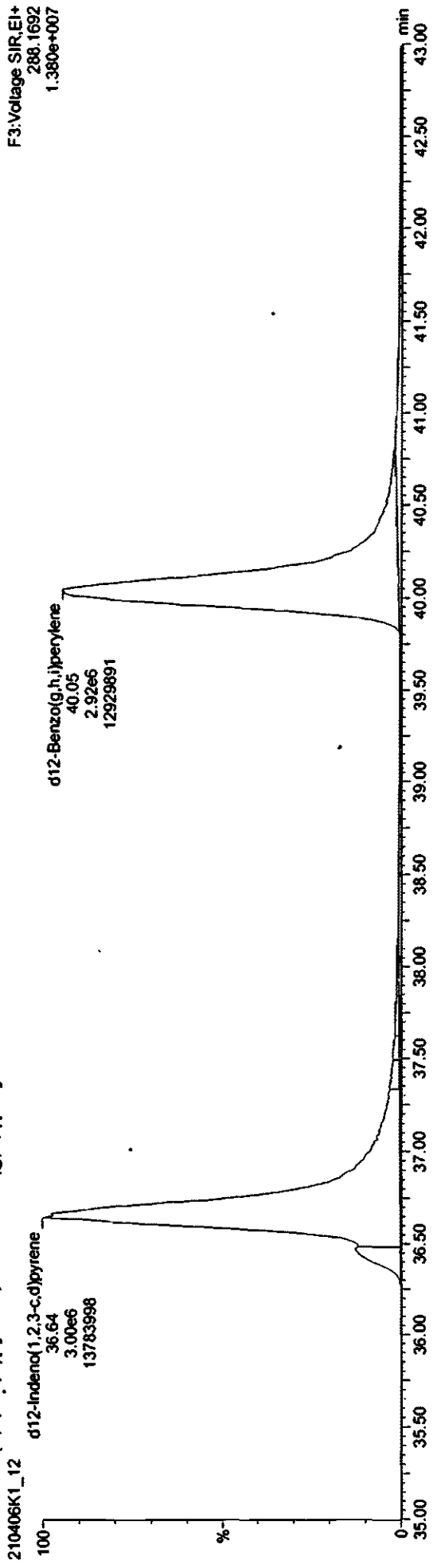
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank

Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

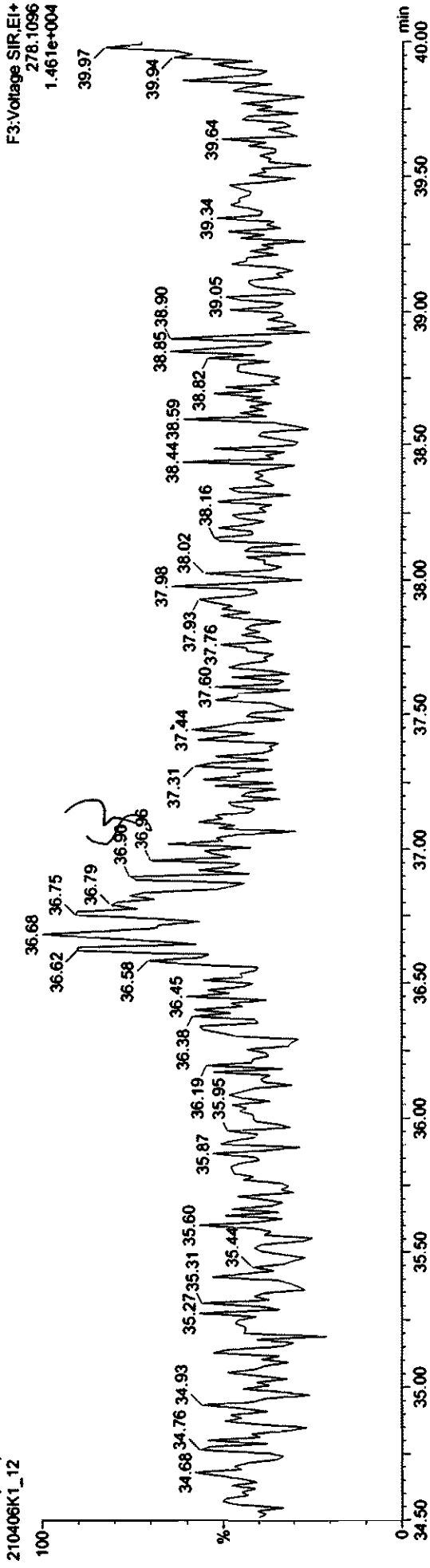


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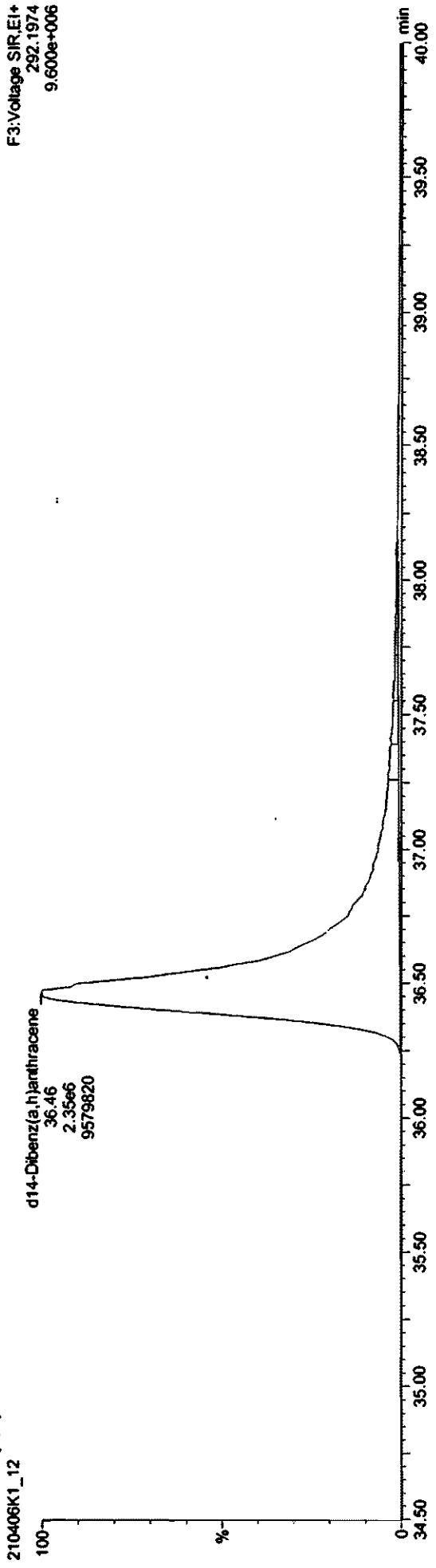
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_12, Date: 06-Apr-2021, Time: 19:50:02, ID: B1D0016-BLK1 Method Blank 1, Description: Method Blank

Dibenz(a,h)anthracene



d14-Dibenz(a,h)anthracene



Quantify Sample Summary Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K12\10406K1-9.qld

Last Altered: Wednesday, April 07, 2021 8:58:40 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:59:04 AM Pacific Daylight Time

He U. J. M. C. T. 04/08/2021

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\lb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: 81D0016-BS1 OPR 1, Description: OPR

| # | Name | Resp | J | S | Resp | RRF | w/vol | Pred | RT | Pred | RRT | Check | R | Conc | %Rec | DL |
|----|--------------------------|--------|---|---|--------|--------|-------|-------|-------|-------|-------|-------|-----|------|--------|----|
| 1 | Naphthalene | 5.88e6 | | | 1.90e6 | 1.16 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 535 | | 0.252 | |
| 2 | Naphthalene-2nd | 6.50e5 | | | 1.90e6 | 0.128 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 596 | | 2.03 | |
| 3 | 2-Methylnaphthalene | 1.48e6 | | | 1.10e6 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 195 | | 0.135 | |
| 4 | Acenaphthylene | 1.82e6 | | | 1.63e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 199 | | 0.116 | |
| 5 | Acenaphthene | 1.17e6 | | | 1.10e6 | 1.10 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | NO | 192 | | 0.207 | |
| 6 | Fluorene | 1.31e6 | | | 1.16e6 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 195 | | 0.133 | |
| 7 | Phenanthrene | 5.32e6 | | | 1.66e6 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 539 | | 0.0737 | |
| 8 | Phenanthrene-2nd | 4.08e5 | | | 1.66e6 | 0.0925 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 531 | | 1.37 | |
| 9 | Anthracene | 1.82e6 | | | 1.66e6 | 1.09 | 1.000 | 18.39 | 18.40 | 1.005 | 1.006 | NO | 201 | | 0.0803 | |
| 10 | Fluoranthene | 2.77e6 | | | 2.41e6 | 1.10 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 209 | | 0.0362 | |
| 11 | Pyrene | 2.97e6 | | | 2.41e6 | 1.20 | 1.000 | 20.87 | 20.85 | 1.026 | 1.026 | NO | 205 | | 0.0332 | |
| 12 | Benz(a)anthracene | 1.82e6 | | | 1.73e6 | 0.961 | 1.000 | 23.22 | 23.22 | 1.003 | 1.003 | NO | 219 | | 0.0950 | |
| 13 | Chrysene | 1.89e6 | | | 2.07e6 | 0.852 | 1.000 | 23.43 | 23.42 | 1.003 | 1.003 | NO | 214 | | 0.0816 | |
| 14 | Benzo(b)fluoranthene | 1.88e6 | | | 3.07e6 | 1.10 | 1.000 | 27.12 | 27.12 | 1.005 | 1.005 | NO | 222 | | 0.219 | |
| 15 | Benzo(k)fluoranthene | 2.40e6 | | | 4.49e6 | 1.04 | 1.000 | 27.21 | 27.20 | 1.004 | 1.004 | NO | 206 | | 0.224 | |
| 16 | Benzo(e)pyrene | 1.97e6 | | | 4.49e6 | 0.911 | 1.000 | 28.91 | 28.93 | 1.067 | 1.068 | NO | 193 | | 0.255 | |
| 17 | Benzo(a)pyrene | 1.88e6 | | | 3.33e6 | 1.02 | 1.000 | 29.19 | 29.15 | 1.006 | 1.005 | NO | 223 | | 0.322 | |
| 18 | Perylene | 1.76e6 | | | 3.33e6 | 0.987 | 1.000 | 29.93 | 29.88 | 1.031 | 1.030 | NO | 215 | | 0.332 | |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.65e6 | | | 3.22e6 | 0.915 | 1.000 | 36.90 | 36.91 | 1.007 | 1.007 | NO | 224 | | 0.635 | |
| 20 | Benzo(g,h,i)perylene | 1.66e6 | | | 3.13e6 | 0.940 | 1.000 | 40.75 | 40.70 | 1.009 | 1.008 | NO | 226 | | 0.892 | |
| 21 | Dibenz(a,h)anthracene | 1.27e6 | | | 2.42e6 | 0.948 | 1.000 | 36.84 | 36.78 | 1.011 | 1.009 | NO | 222 | | 0.691 | |
| 22 | d8-Naphthalene | 1.90e6 | | | 2.38e6 | 1.20 | 1.000 | 10.12 | 10.10 | 0.848 | 0.847 | NO | 132 | 66.1 | 0.0266 | |
| 23 | d8-Acenaphthylene | 1.63e6 | | | 2.38e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 152 | 75.8 | 0.0471 | |
| 24 | d10-Acenaphthene | 1.10e6 | | | 2.38e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 156 | 77.8 | 0.0341 | |
| 25 | d10-Fluorene | 1.16e6 | | | 2.38e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 173 | 86.7 | 0.0324 | |
| 26 | d10-Phenanthrene | 1.66e6 | | | 2.38e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 189 | 94.7 | 0.0258 | |
| 27 | d10-Fluoranthene | 2.41e6 | | | 2.38e6 | 1.29 | 1.000 | 20.34 | 20.33 | 0.977 | 0.976 | NO | 158 | 78.8 | 0.0115 | |
| 28 | d12-Benz(a)anthracene | 1.73e6 | | | 2.38e6 | 0.900 | 1.000 | 23.13 | 23.16 | 1.110 | 1.112 | NO | 162 | 80.8 | 0.0250 | |
| 29 | d12-Chrysene | 2.07e6 | | | 2.38e6 | 1.02 | 1.000 | 23.32 | 23.35 | 1.120 | 1.121 | NO | 170 | 85.0 | 0.0220 | |
| 30 | d12-Benzo(b)fluoranthene | 3.07e6 | | | 1.82e6 | 1.18 | 1.000 | 26.97 | 26.98 | 0.907 | 0.908 | NO | 285 | 71.2 | 0.271 | |
| 31 | d12-Benzo(k)fluoranthene | 4.49e6 | | | 1.82e6 | 1.50 | 1.000 | 27.08 | 27.09 | 0.911 | 0.912 | NO | 328 | 82.0 | 0.213 | |

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-9.qld

Last Altered: Wednesday, April 07, 2021 8:58:40 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 8:59:04 AM Pacific Daylight Time

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: B1D0016-BS1 OPR 1, Description: OPR

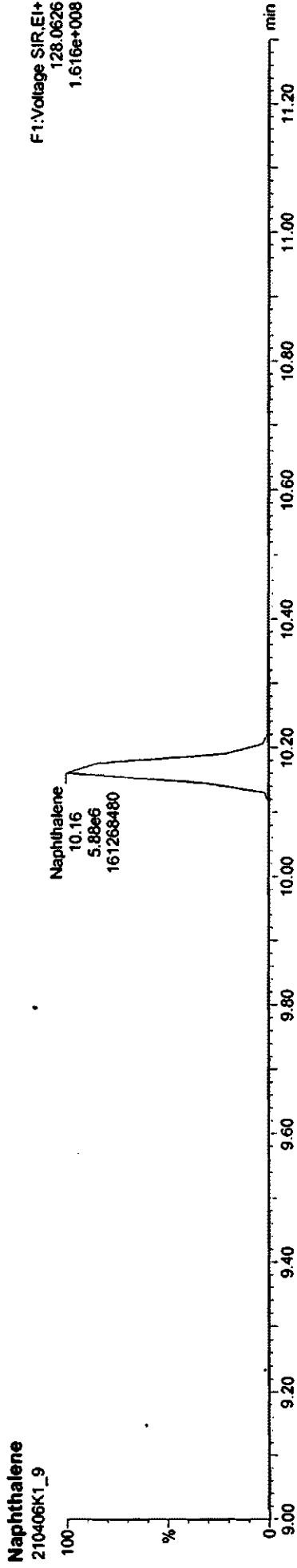
| # | Name | Resp | IS Resp | RRF | w/vol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DU |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 32 | d12-Benzo(a)pyrene | 3.33e6 | 1.82e6 | 1.24 | 1.000 | 28.98 | 29.02 | 0.975 | 0.976 | NO | 295 | 73.8 | 0.259 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 3.22e6 | 1.82e6 | 1.02 | 1.000 | 37.06 | 36.65 | 1.247 | 1.233 | YES | 346 | 86.6 | 1.48 |
| 34 | d12-Benzo(g,h,i)perylene | 3.13e6 | 1.82e6 | 1.00 | 1.000 | 40.49 | 40.38 | 1.362 | 1.358 | NO | 342 | 85.6 | 1.50 |
| 35 | d14-Dibenz(a,h)anthracene | 2.42e6 | 1.82e6 | 0.765 | 1.000 | 36.84 | 36.44 | 1.239 | 1.226 | YES | 346 | 86.6 | 0.331 |
| 36 | d10-Anthracene | 1.38e6 | 1.82e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 153 | 76.7 | 0.120 |
| 37 | d10-1-Methylnaphthalene | 1.96e6 | 1.96e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.0268 |
| 38 | d10-Pyrene | 2.38e6 | 2.38e6 | 1.00 | 1.000 | 20.81 | 20.82 | 1.000 | 1.000 | NO | 200 | 100 | 0.0148 |
| 39 | d12-Perylene | 1.82e6 | 1.82e6 | 1.00 | 1.000 | 29.59 | 29.72 | 1.000 | 1.000 | NO | 200 | 100 | 0.321 |

Quantify Sample Report
Vista Analytical Laboratory

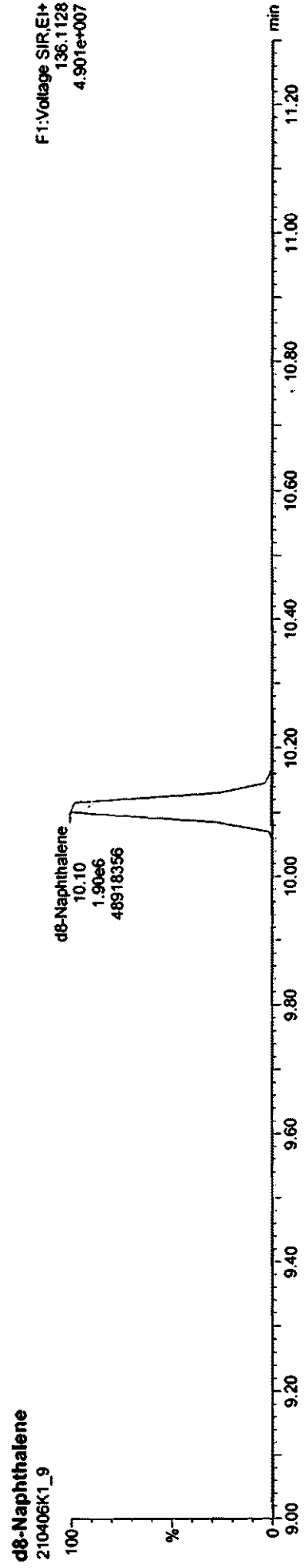
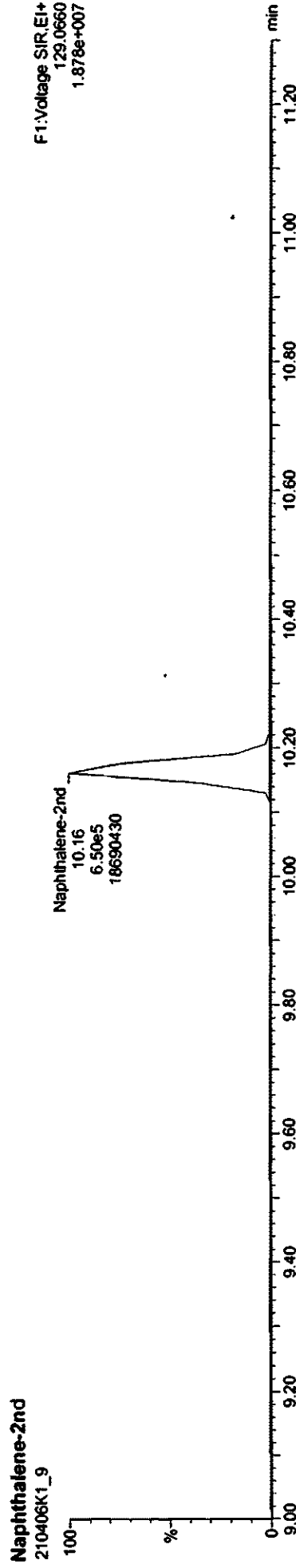
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: B1D0016-BS1 OPR 1, Description: OPR



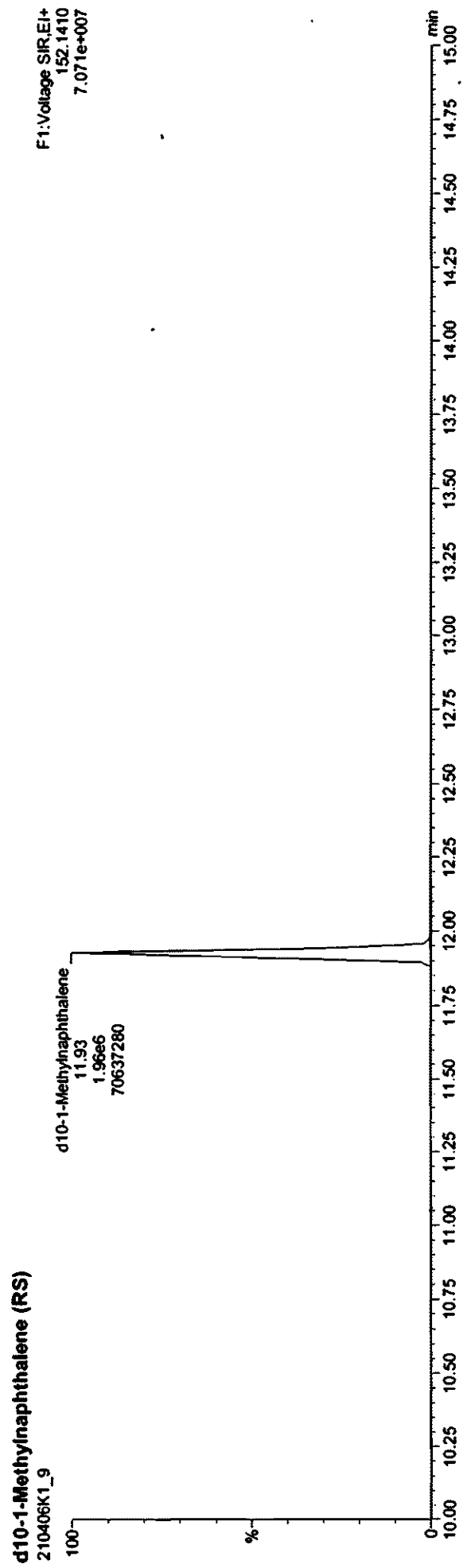
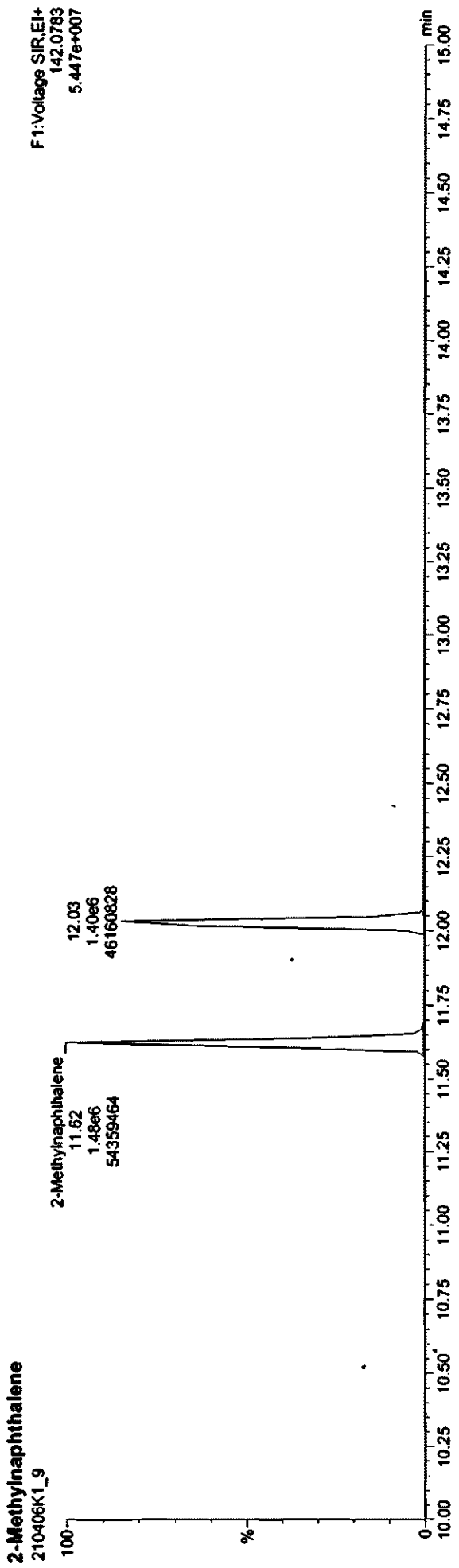
501 of 1215



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

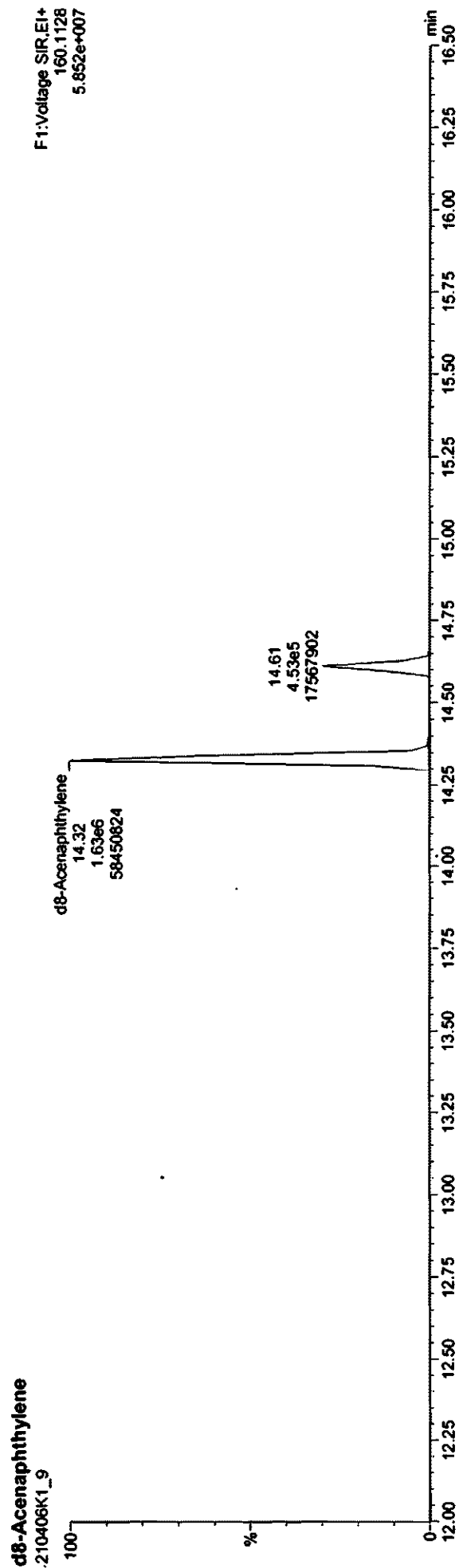
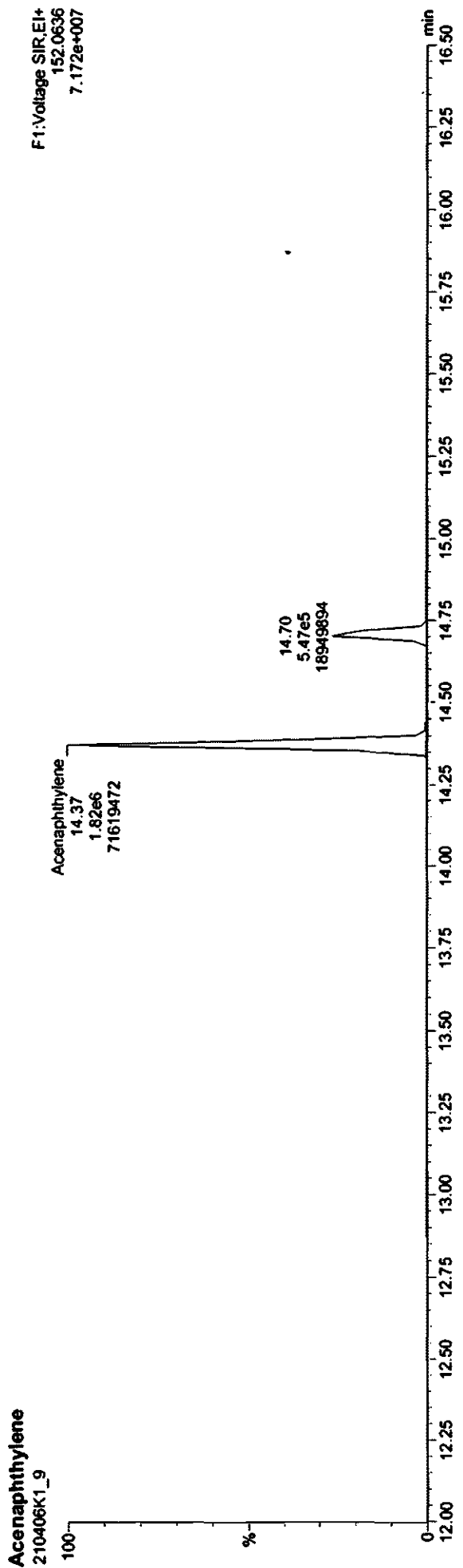
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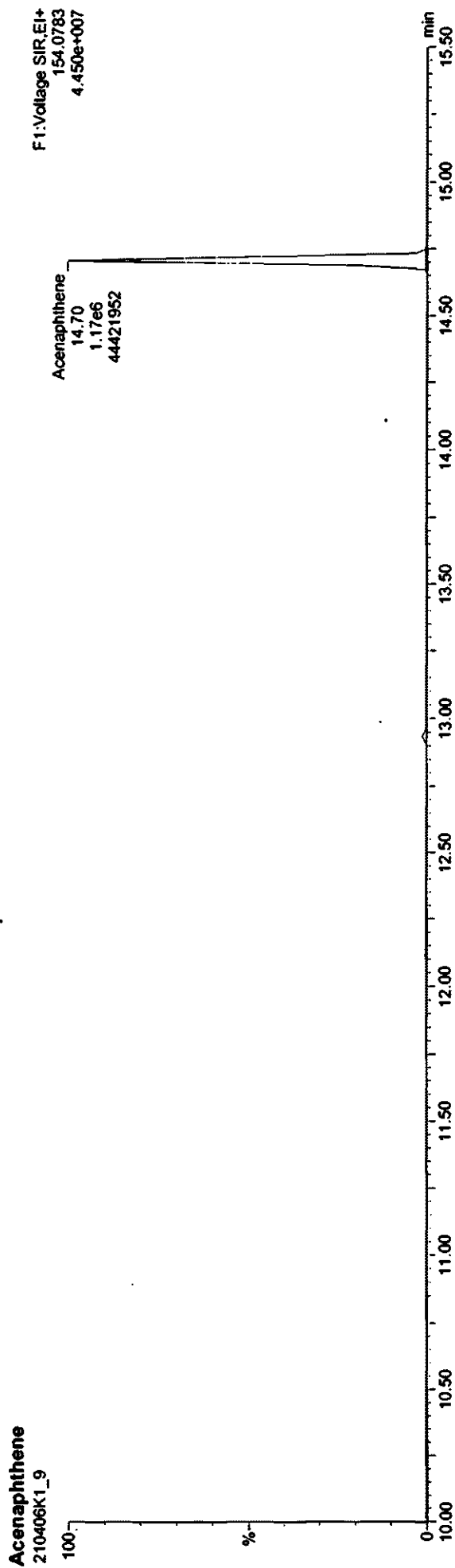


Quantify Sample Report
Vista Analytical Laboratory

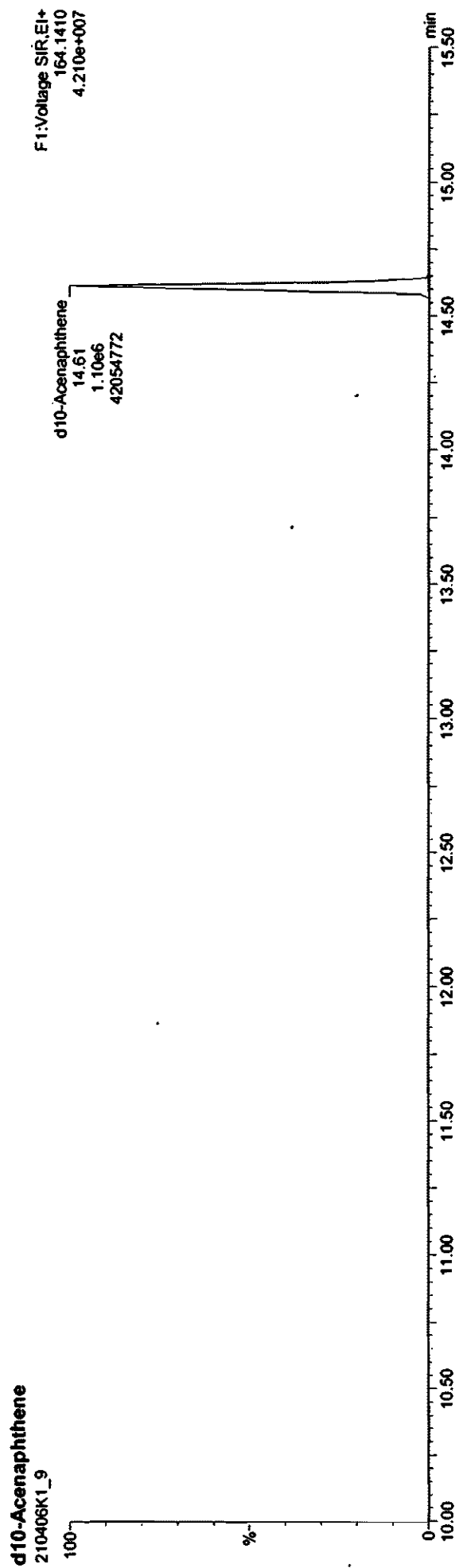
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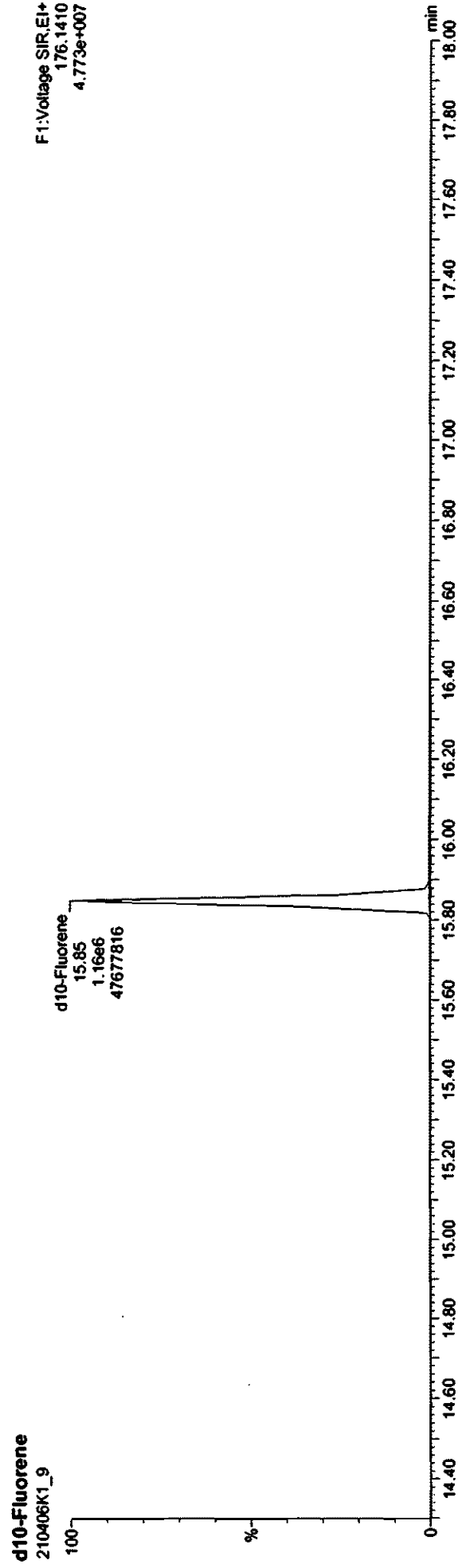
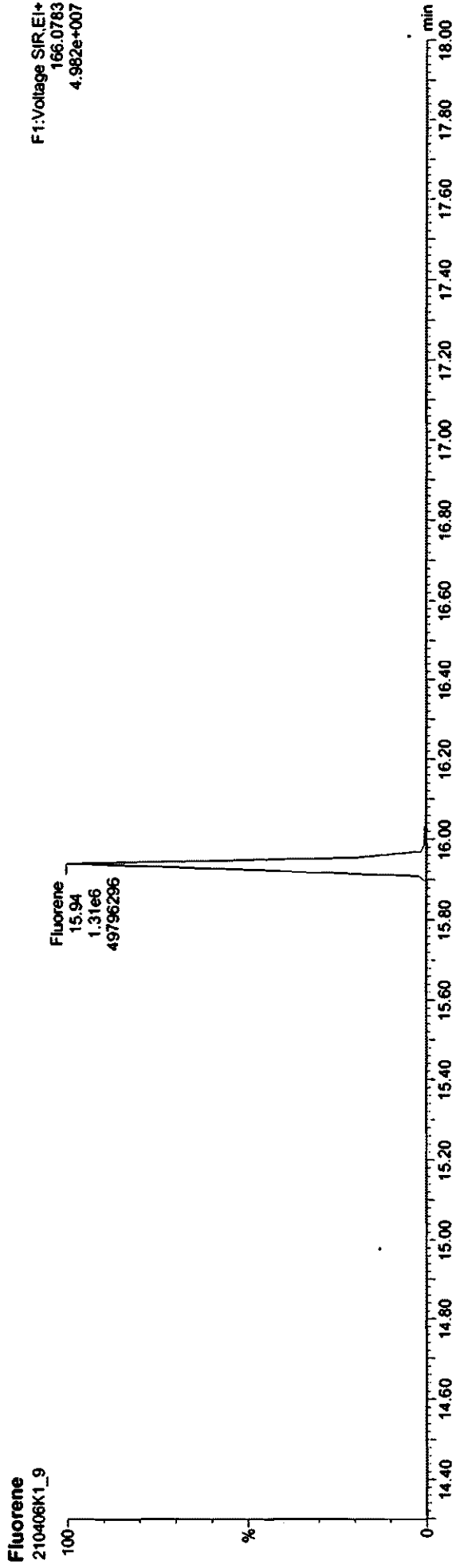


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

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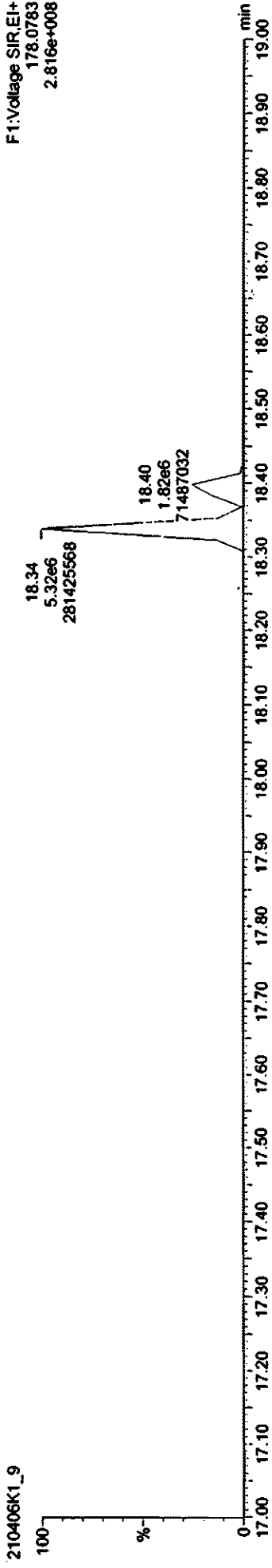


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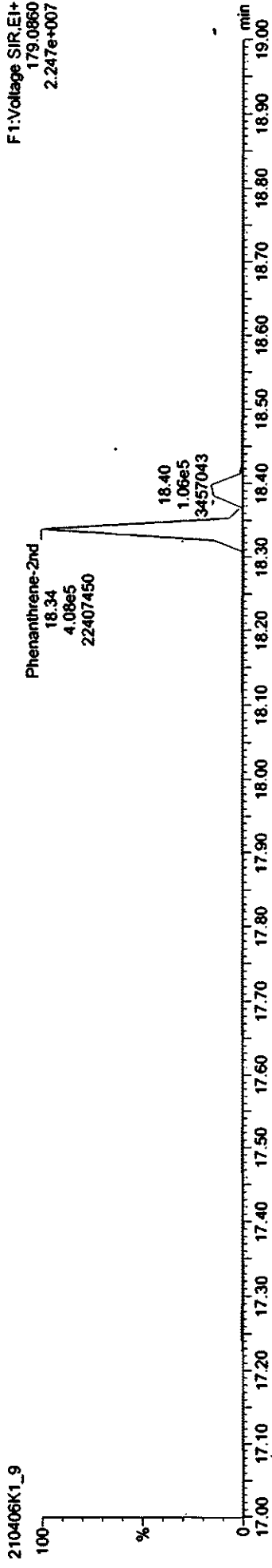
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Phenanthrene; Anthrecene

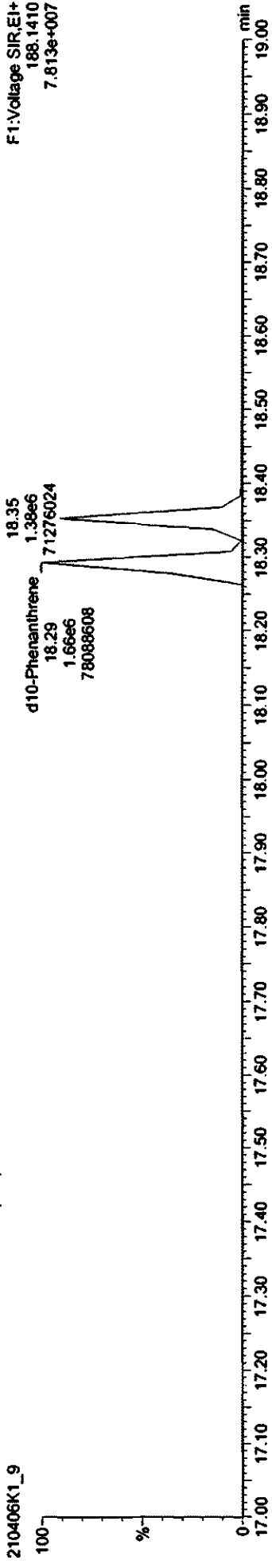


506 of 1215

Phenanthrene-2nd



d10-Phenanthrene; d10-Anthrecene (AS)



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

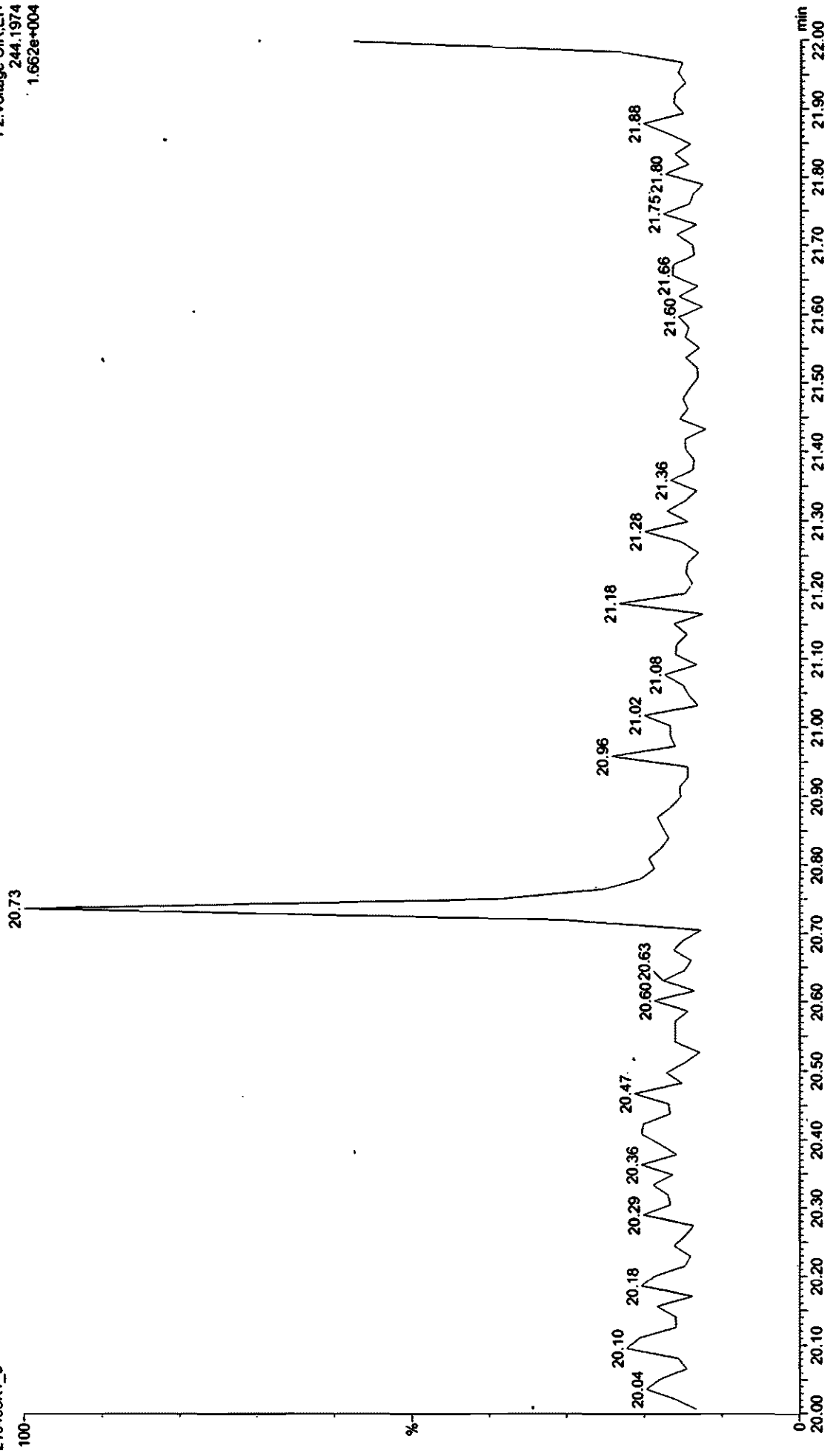
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: B1D0016-BS1 OPR 1, Description: OPR

d14-Terphenyl (PS)

210406K1_9

F2:Voltage SIR,EI+
244.1974
1.662e+004



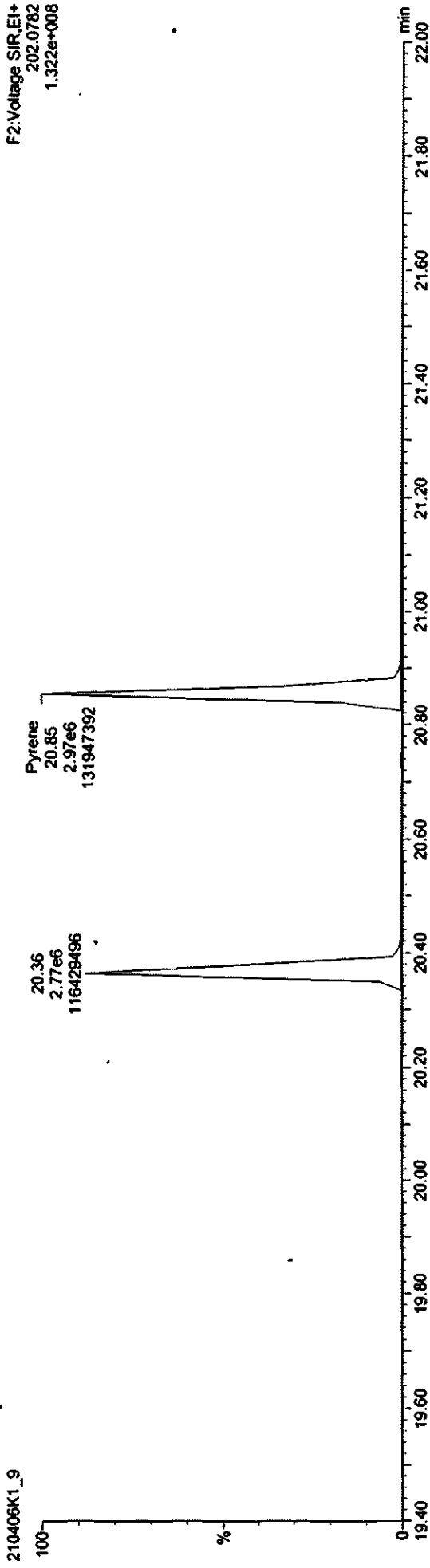
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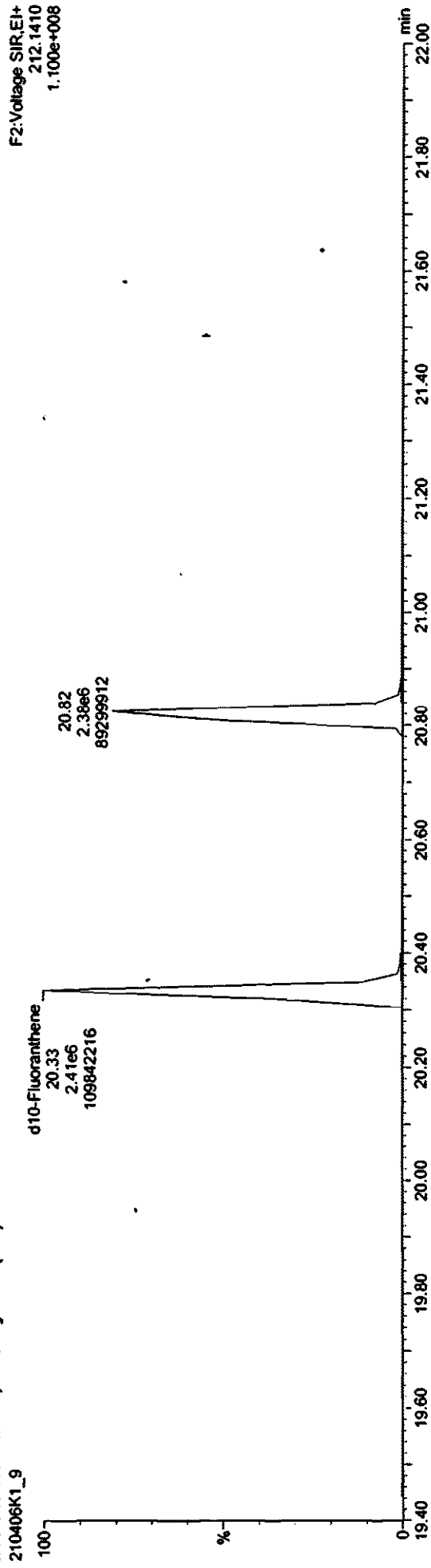
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
1.322e+008



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
1.100e+008



Dataset: Untitled

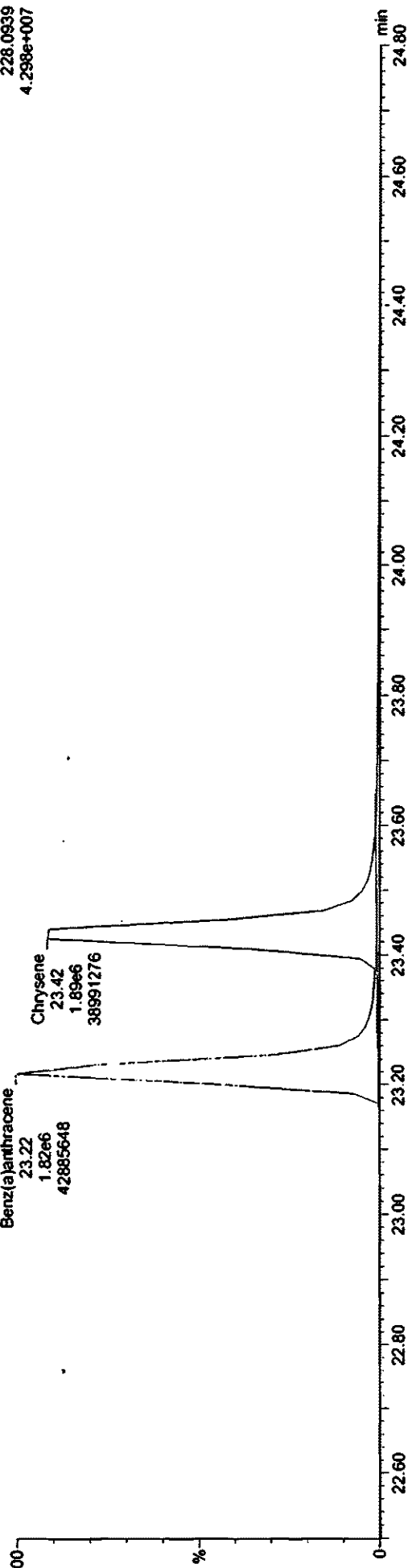
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: B1D0016-BS1 OPR 1, Description: OPR

Benz(a)Anthracene-Chrysene

210406K1_9

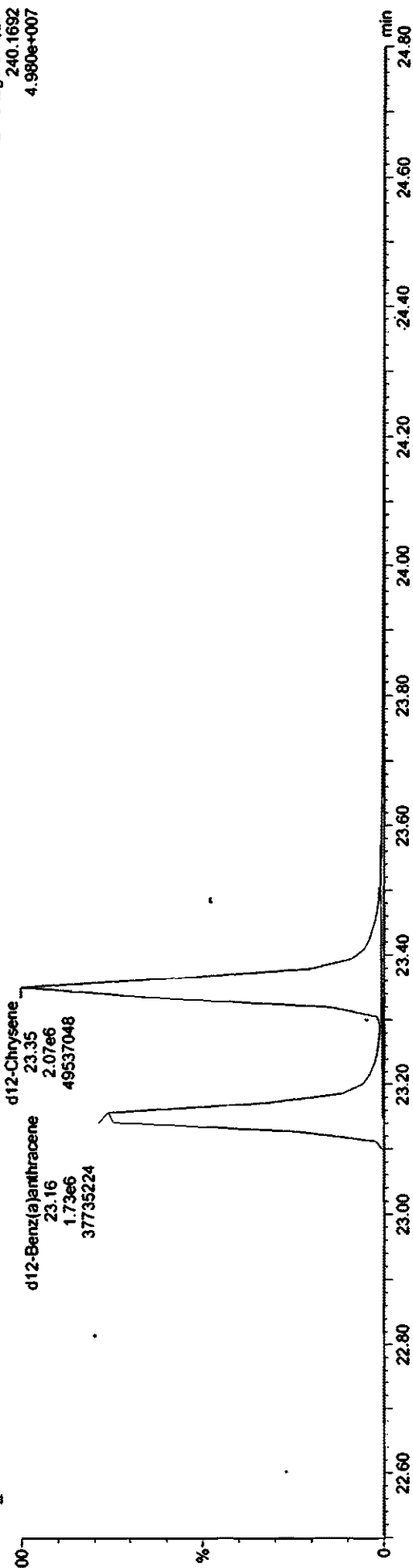
F2:Voltage SIR,EI+
228.0939
4.298e+007



Benz(a)Anthracene-Chrysene-Iso

210406K1_9

F2:Voltage SIR,EI+
240.1692
4.980e+007

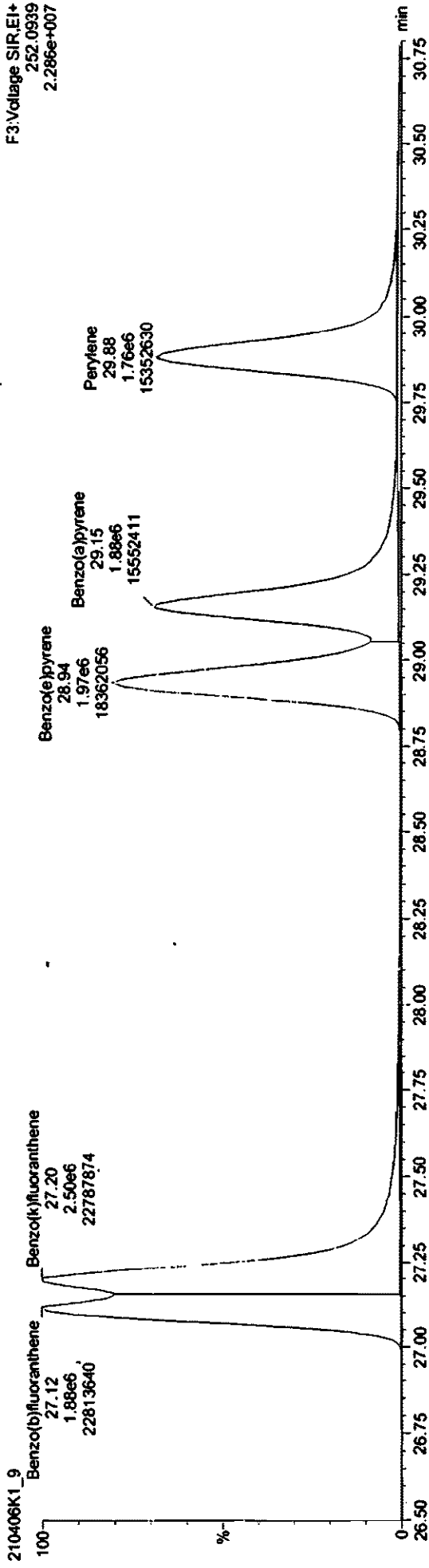


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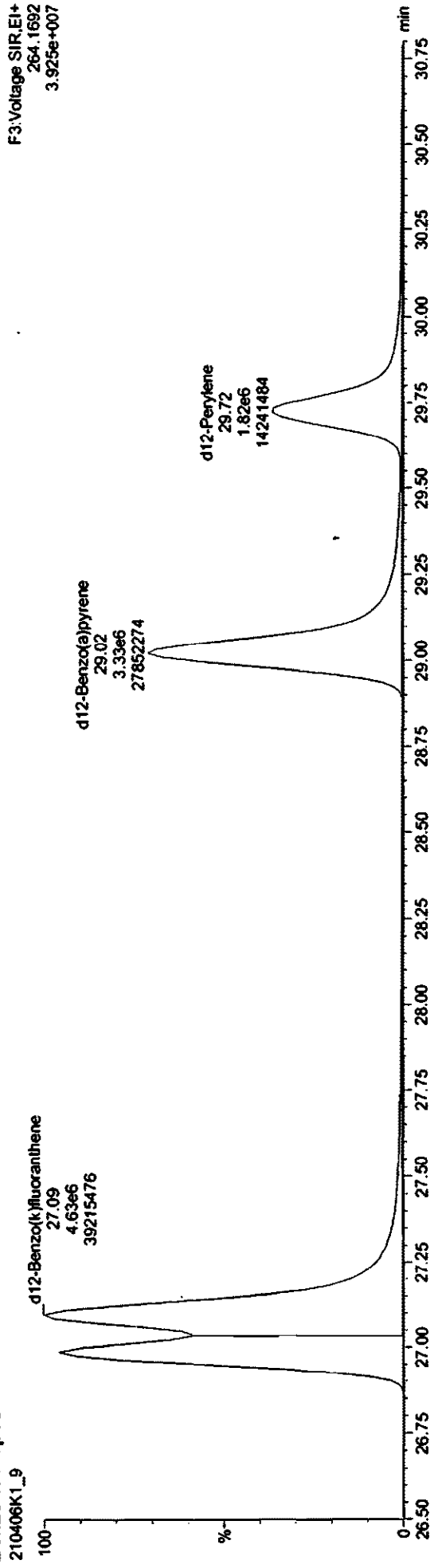
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: B1D0016-BS1 OPR 1, Description: OPR

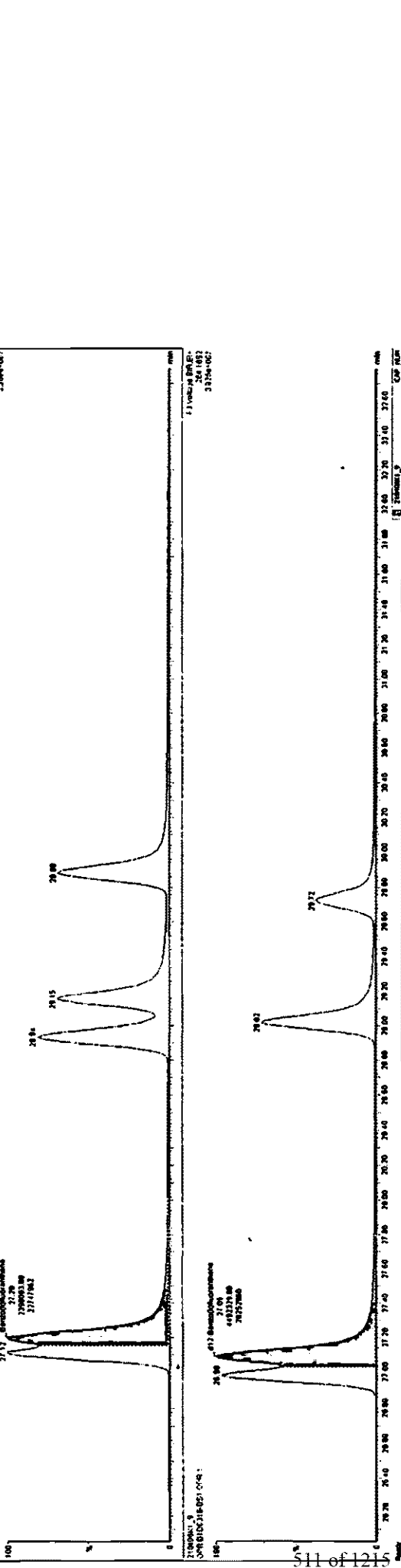
Benzo-PAHs



Benzo-Isotopes



| Peak | Retention Time (min) | Area | Height | Width | RT | Area (%) | Height (%) | Width (%) | RT (min) | Area | Height | Width | RT (min) | Area | Height | Width |
|------|----------------------|---------|--------|-------|-------|----------|------------|-----------|----------|---------|--------|-------|----------|---------|--------|-------|
| 1 | 21.72 | 1000000 | 10000 | 1.000 | 21.72 | 100.000 | 100.000 | 1.000 | 21.72 | 1000000 | 10000 | 1.000 | 21.72 | 1000000 | 10000 | 1.000 |
| 2 | 28.84 | 1000000 | 10000 | 1.000 | 28.84 | 100.000 | 100.000 | 1.000 | 28.84 | 1000000 | 10000 | 1.000 | 28.84 | 1000000 | 10000 | 1.000 |
| 3 | 29.15 | 1000000 | 10000 | 1.000 | 29.15 | 100.000 | 100.000 | 1.000 | 29.15 | 1000000 | 10000 | 1.000 | 29.15 | 1000000 | 10000 | 1.000 |
| 4 | 29.84 | 1000000 | 10000 | 1.000 | 29.84 | 100.000 | 100.000 | 1.000 | 29.84 | 1000000 | 10000 | 1.000 | 29.84 | 1000000 | 10000 | 1.000 |
| 5 | 30.62 | 1000000 | 10000 | 1.000 | 30.62 | 100.000 | 100.000 | 1.000 | 30.62 | 1000000 | 10000 | 1.000 | 30.62 | 1000000 | 10000 | 1.000 |
| 6 | 31.00 | 1000000 | 10000 | 1.000 | 31.00 | 100.000 | 100.000 | 1.000 | 31.00 | 1000000 | 10000 | 1.000 | 31.00 | 1000000 | 10000 | 1.000 |

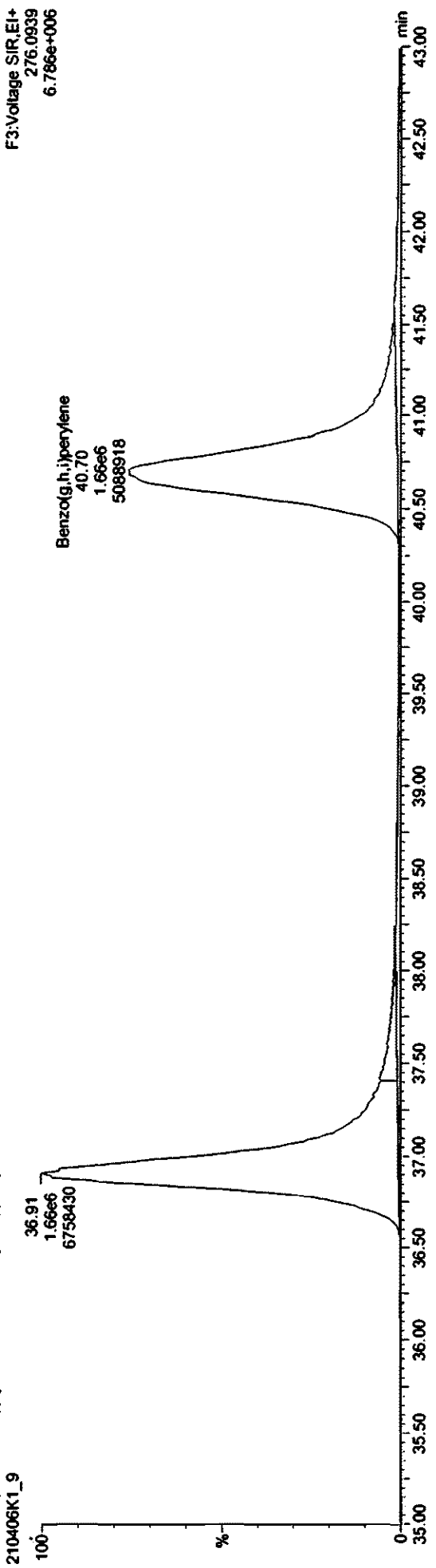


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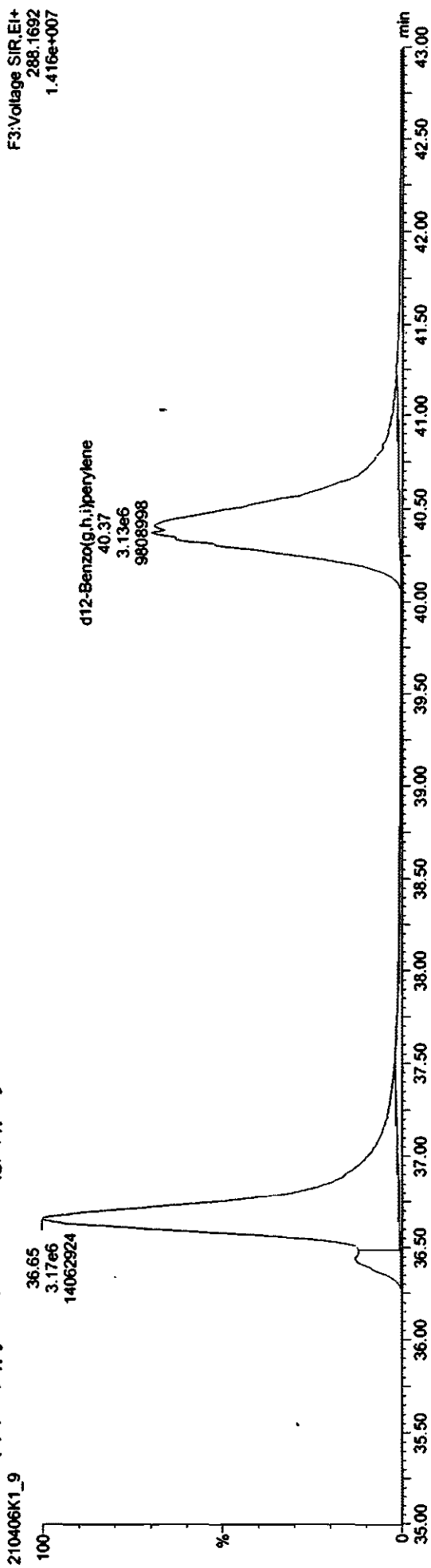
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: BID0016-BS1 OPR 1, Description: OPR

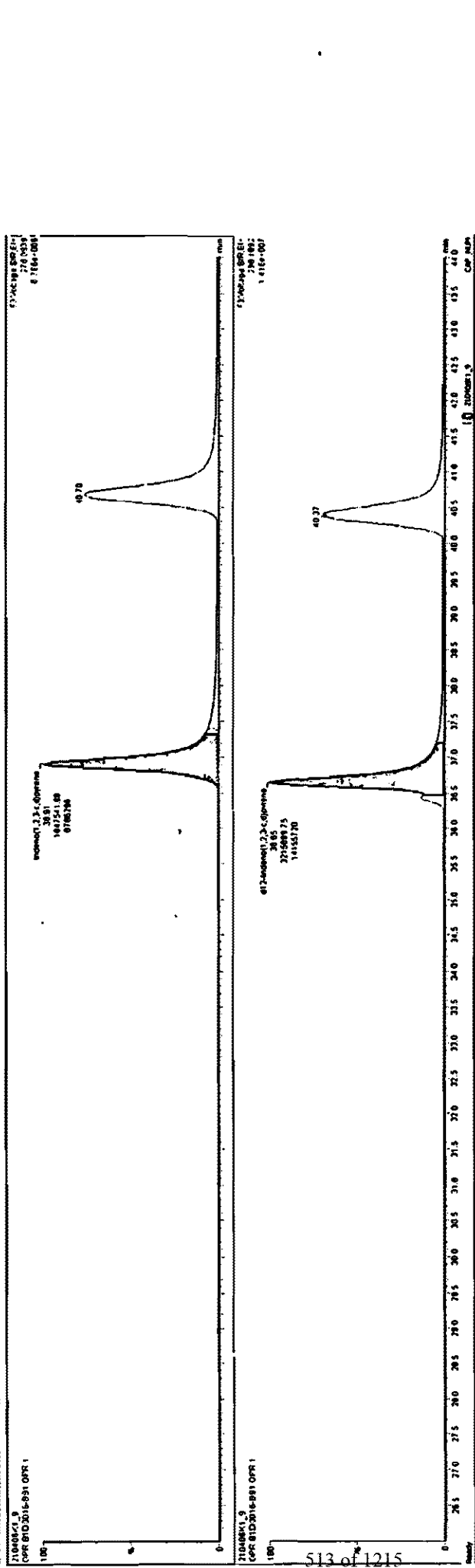
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene



| Peak | Name | RT | Area | Height | Width | Area% | Height% | Width% | Area Error | Height Error | Width Error |
|------|-----------------------|-------|------|--------|-------|-------|---------|--------|------------|--------------|-------------|
| 13 | Diethyl fumarate | 27.21 | 1000 | 1.80 | 1.80 | 0.08 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | Diethyl succinate | 28.83 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | Diethyl malonate | 29.15 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | Diethyl phthalate | 30.15 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | Diethyl terephthalate | 30.89 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | Diethyl isophthalate | 32.09 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | Diethyl sebacate | 32.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | Diethyl dodecylate | 33.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | Diethyl hexadecylate | 34.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | Diethyl octadecylate | 35.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | Diethyl myristate | 36.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | Diethyl laurate | 37.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | Diethyl myristate | 38.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | Diethyl stearate | 39.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | Diethyl arachidate | 40.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | Diethyl behenate | 41.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | Diethyl lignocerate | 42.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | Diethyl cerotate | 43.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | Diethyl myristate | 44.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | Diethyl arachidate | 45.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | Diethyl behenate | 46.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | Diethyl lignocerate | 47.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | Diethyl cerotate | 48.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | Diethyl myristate | 49.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | Diethyl arachidate | 50.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | Diethyl behenate | 51.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | Diethyl lignocerate | 52.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | Diethyl cerotate | 53.75 | 1000 | 1.21 | 1.21 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |



Dataset: Untitled

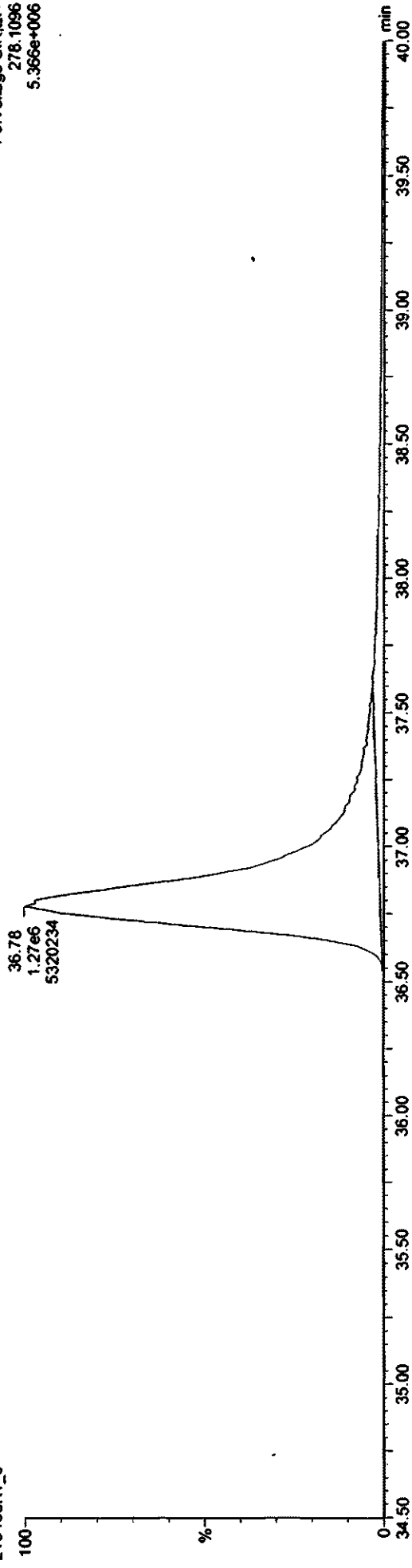
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_9, Date: 06-Apr-2021, Time: 17:29:34, ID: B1D0016-BS1 OPR 1, Description: OPR.

Dibenz(a,h)anthracene

210406K1_9

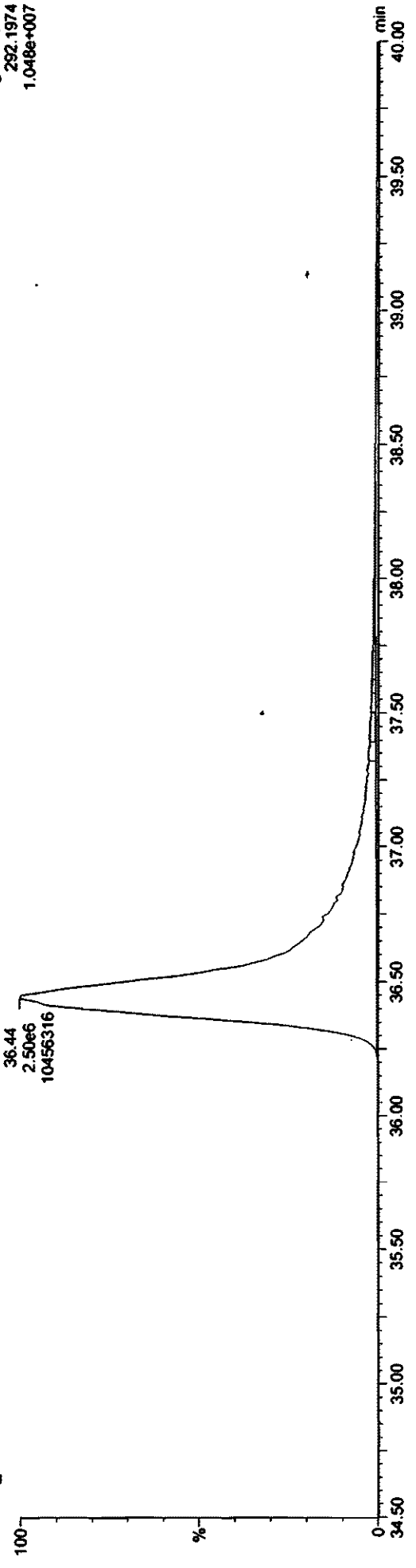
F3:Voltage SIR,EI+
278.1096
5.366e+006



d14-Dibenz(a,h)anthracene

210406K1_9

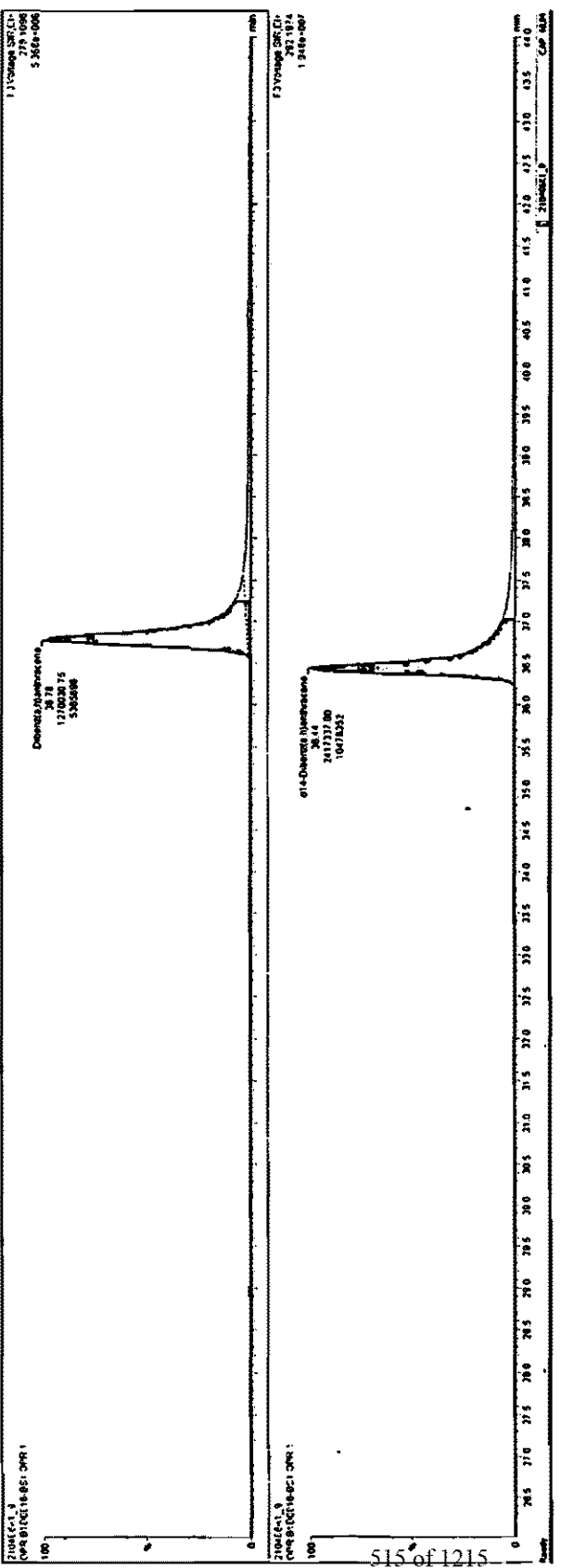
F3:Voltage SIR,EI+
292.1974
1.048e+007



1374841018-851.DPR1

1374841018-851.DPR1

| Area | % Area | Height | Width | RT | Area% | Height% | Width% | Area% | Height% | Width% |
|------|--------|--------|--------|-------|--------|---------|--------|--------|---------|--------|
| 14 | 0.00 | 0.00 | 0.00 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 15 | 2.73 | 1.0000 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 16 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 17 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 18 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 19 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 20 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 21 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 22 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 23 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 24 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 25 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 26 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 27 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 28 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 29 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 30 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |



1374841018-851.DPR1

| Area | % Area | Height | Width | RT | Area% | Height% | Width% | Area% | Height% | Width% |
|------|--------|--------|--------|-------|--------|---------|--------|--------|---------|--------|
| 14 | 0.00 | 0.00 | 0.00 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 15 | 2.73 | 1.0000 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 16 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 17 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 18 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 19 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 20 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 21 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 22 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 23 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 24 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 25 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 26 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 27 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 28 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 29 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |
| 30 | 1.00 | 0.3115 | 1.0000 | 27.20 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 |

Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-10.qld

Last Altered: Wednesday, April 07, 2021 9:04:05 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 9:04:35 AM Pacific Daylight Time

Handwritten: 4.7.21 07.04.08/2021

Method: Untitled 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\lb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

| L# | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|--------------------------|--------|---------|--------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 1 | Naphthalene | 4.65e6 | 1.42e6 | 1.16 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 565 | | 0.289 |
| 2 | Naphthalene-2nd | 5.12e5 | 1.42e6 | 0.128 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 564 | | 2.64 |
| 3 | 2-Methylnaphthalene | 1.21e6 | 9.43e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 186 | | 0.189 |
| 4 | Acenaphthylene | 1.54e6 | 1.35e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 205 | | 0.128 |
| 5 | Acenaphthene | 1.07e6 | 9.43e5 | 1.10 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | NO | 206 | | 0.256 |
| 6 | Fluorene | 1.21e6 | 1.03e6 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 203 | | 0.129 |
| 7 | Phenanthrene | 4.65e6 | 1.41e6 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 555 | | 0.0951 |
| 8 | Phenanthrene-2nd | 3.85e5 | 1.41e6 | 0.0925 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 594 | | 1.21 |
| 9 | Anthracene | 1.52e6 | 1.41e6 | 1.09 | 1.000 | 18.39 | 18.38 | 1.005 | 1.005 | NO | 197 | | 0.104 |
| 10 | Fluoranthene | 2.85e6 | 2.32e6 | 1.10 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 224 | | 0.0509 |
| 11 | Pyrene | 3.02e6 | 2.32e6 | 1.20 | 1.000 | 20.87 | 20.85 | 1.026 | 1.026 | NO | 218 | | 0.0467 |
| 12 | Benz(a)anthracene | 1.91e6 | 1.77e6 | 0.961 | 1.000 | 23.17 | 23.17 | 1.003 | 1.003 | NO | 224 | | 0.0774 |
| 13 | Chrysene | 2.02e6 | 2.14e6 | 0.852 | 1.000 | 23.38 | 23.38 | 1.003 | 1.003 | NO | 221 | | 0.0716 |
| 14 | Benzo(b)fluoranthene | 2.14e6 | 3.44e6 | 1.10 | 1.000 | 27.01 | 27.01 | 1.005 | 1.005 | NO | 226 | | 0.192 |
| 15 | Benzo(k)fluoranthene | 2.55e6 | 4.52e6 | 1.04 | 1.000 | 27.11 | 27.12 | 1.004 | 1.004 | NO | 217 | | 0.209 |
| 16 | Benzo(e)pyrene | 2.21e6 | 4.52e6 | 0.911 | 1.000 | 28.81 | 28.89 | 1.067 | 1.070 | NO | 215 | | 0.238 |
| 17 | Benzo(a)pyrene | 1.92e6 | 3.31e6 | 1.02 | 1.000 | 29.14 | 29.14 | 1.006 | 1.006 | NO | 229 | | 0.346 |
| 18 | Perylene | 1.87e6 | 3.31e6 | 0.987 | 1.000 | 29.88 | 29.89 | 1.031 | 1.032 | NO | 228 | | 0.356 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.72e6 | 3.39e6 | 0.915 | 1.000 | 37.55 | 37.58 | 1.007 | 1.007 | NO | 221 | | 2.60 |
| 20 | Benzo(g,h,i)perylene | 1.73e6 | 3.27e6 | 0.940 | 1.000 | 40.57 | 40.61 | 1.009 | 1.010 | NO | 225 | | 1.95 |
| 21 | Dibenz(a,h)anthracene | 1.28e6 | 2.46e6 | 0.948 | 1.000 | 37.59 | 37.61 | 1.011 | 1.012 | NO | 219 | | 2.39 |
| 22 | d8-Naphthalene | 1.42e6 | 2.24e6 | 1.20 | 1.000 | 10.12 | 10.10 | 0.848 | 0.847 | NO | 105 | 52.6 | 0.0224 |
| 23 | d8-Acenaphthylene | 1.35e6 | 2.24e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 133 | 66.6 | 0.0339 |
| 24 | d10-Acenaphthene | 9.43e5 | 2.24e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 142 | 70.9 | 0.0324 |
| 25 | d10-Fluorene | 1.03e6 | 2.24e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 164 | 81.9 | 0.0307 |
| 26 | d10-Phenanthrene | 1.41e6 | 2.24e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 171 | 85.6 | 0.0230 |
| 27 | d10-Fluoranthene | 2.32e6 | 2.24e6 | 1.29 | 1.000 | 20.33 | 20.33 | 0.977 | 0.977 | NO | 161 | 80.6 | 0.0114 |
| 28 | d12-Benz(a)anthracene | 1.77e6 | 2.24e6 | 0.900 | 1.000 | 23.11 | 23.11 | 1.110 | 1.111 | NO | 175 | 87.6 | 0.0228 |
| 29 | d12-Chrysene | 2.14e6 | 2.24e6 | 1.02 | 1.000 | 23.30 | 23.30 | 1.120 | 1.120 | NO | 187 | 93.6 | 0.0201 |
| 30 | d12-Benzo(b)fluoranthene | 3.44e6 | 1.80e6 | 1.18 | 1.000 | 26.88 | 26.88 | 0.904 | 0.904 | NO | 322 | 80.6 | 0.237 |
| 31 | d12-Benzo(k)fluoranthene | 4.52e6 | 1.80e6 | 1.50 | 1.000 | 27.00 | 27.00 | 0.909 | 0.908 | NO | 334 | 83.4 | 0.186 |

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-10.qld

Last Altered: Wednesday, April 07, 2021 9:04:05 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 9:04:35 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

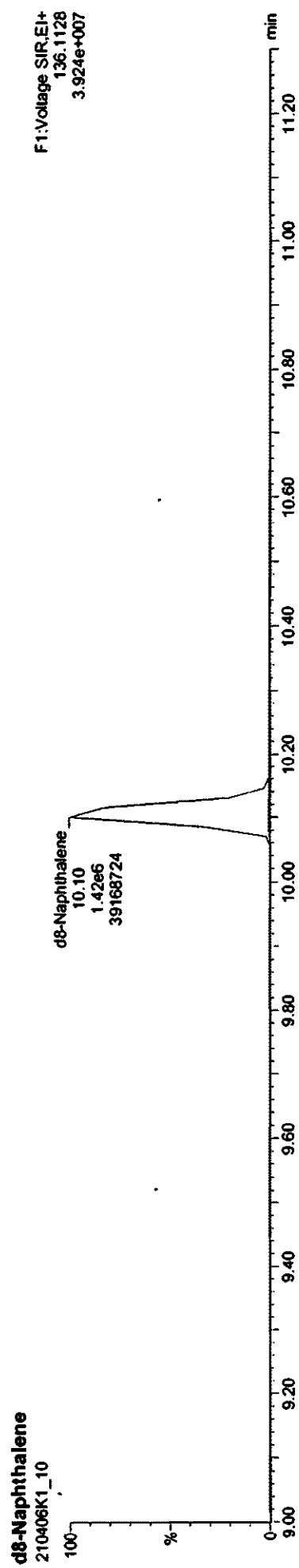
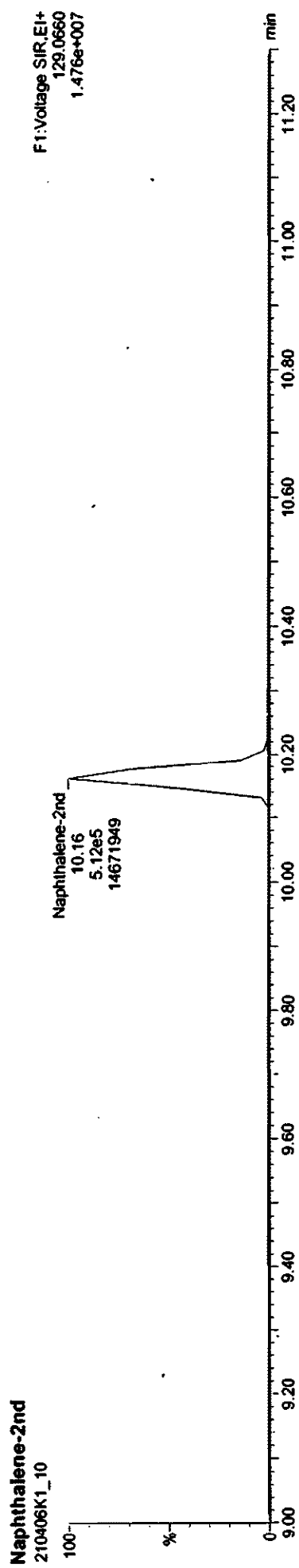
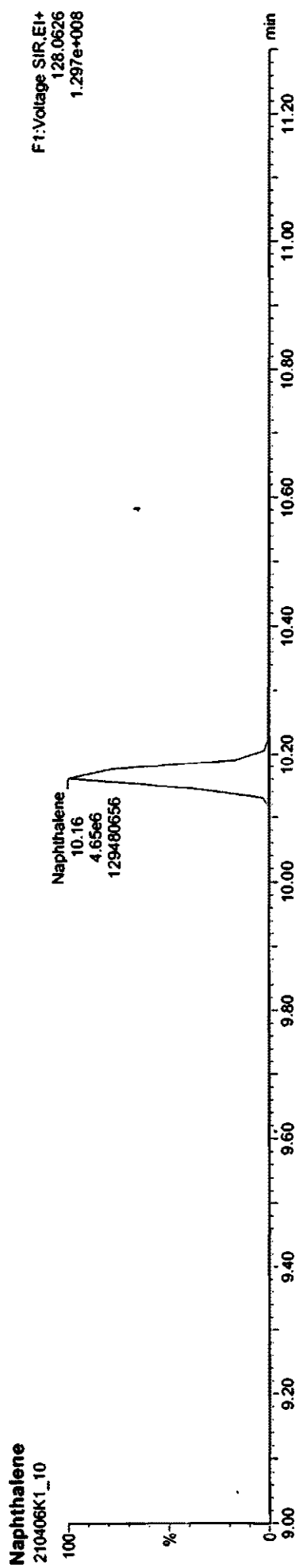
| L. # | Name | Resp | IS | Resp | RRF | w/vol | Pred RT | RT | Pred RRT | RRT | Check R | Conc. | %Rec | DL |
|------|-----------------------------|--------|--------|-------|-------|-------|---------|-------|----------|-------|---------|-------|------|--------|
| 32 | d12-Benzo(a)pyrene | 3.31e6 | 1.80e6 | 1.24 | 1.000 | 1.000 | 28.97 | 28.97 | 0.975 | 0.975 | NO | 297 | 74.2 | 0.226 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 3.39e6 | 1.80e6 | 1.02 | 1.000 | 1.000 | 37.06 | 37.30 | 1.247 | 1.255 | NO | 370 | 92.4 | 0.334 |
| 34 | d12-Benzo(g,h,i)perylene | 3.27e6 | 1.80e6 | 1.00 | 1.000 | 1.000 | 40.49 | 40.19 | 1.362 | 1.352 | NO | 361 | 90.2 | 0.339 |
| 35 | d14-Dibenz(a,h)anthracene | 2.46e6 | 1.80e6 | 0.765 | 1.000 | 1.000 | 36.84 | 37.18 | 1.239 | 1.251 | YES | 357 | 89.3 | 0.428 |
| 36 | d10-Anthracene | 1.11e6 | 1.80e6 | 0.989 | 1.000 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 125 | 62.3 | 0.124 |
| 37 | d10-1-Methylanthracene | 1.71e6 | 1.71e6 | 1.00 | 1.000 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.0333 |
| 38 | d10-Pyrene | 2.24e6 | 2.24e6 | 1.00 | 1.000 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 0.0147 |
| 39 | d12-Perylene | 1.80e6 | 1.80e6 | 1.00 | 1.000 | 1.000 | 29.59 | 29.72 | 1.000 | 1.000 | NO | 200 | 100 | 0.280 |

Quantify Sample Report
Visla Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD



Quantify Sample Report
Vista Analytical Laboratory

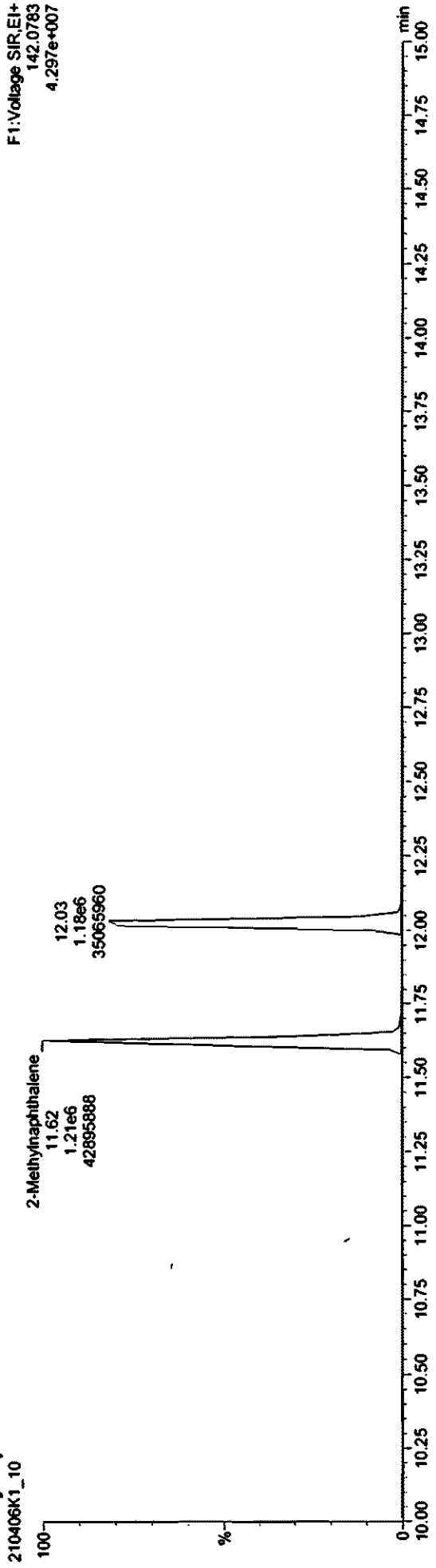
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

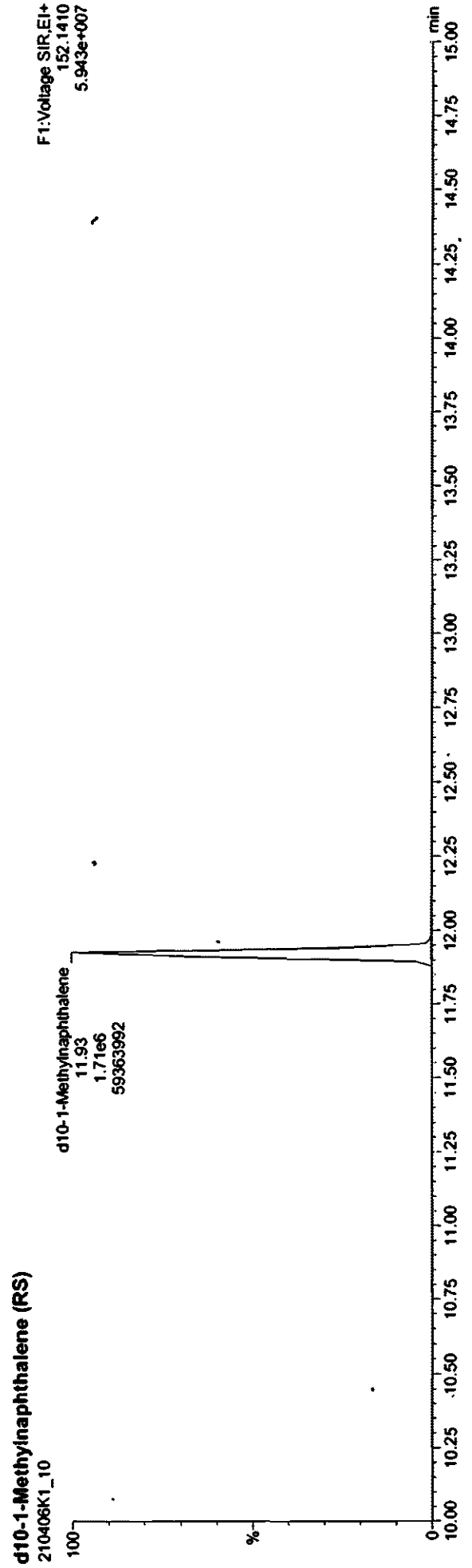
2-Methylnaphthalene

F1:Voltage SIR,EI+
142.0783
4.297e+007



d10-1-Methylnaphthalene (RS)

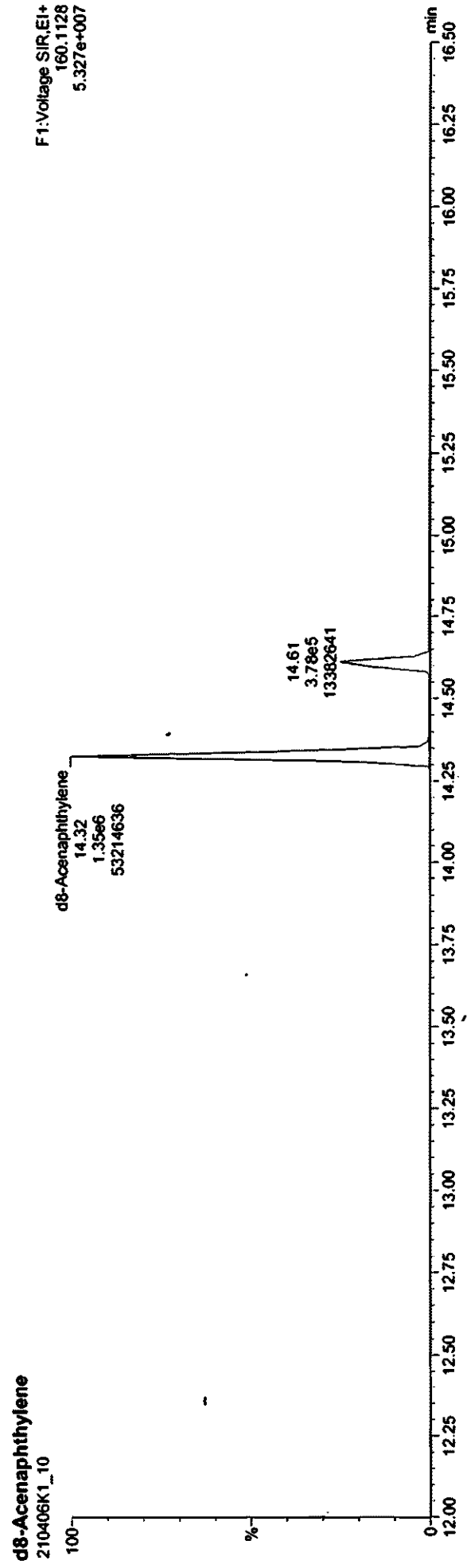
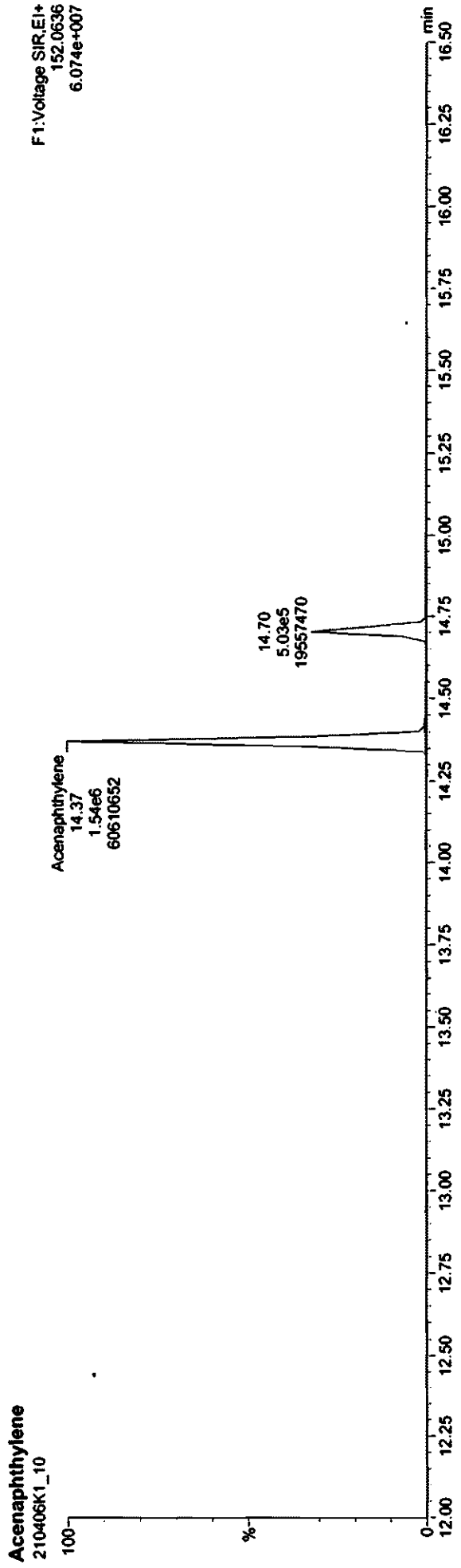
F1:Voltage SIR,EI+
152.1410
5.943e+007



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

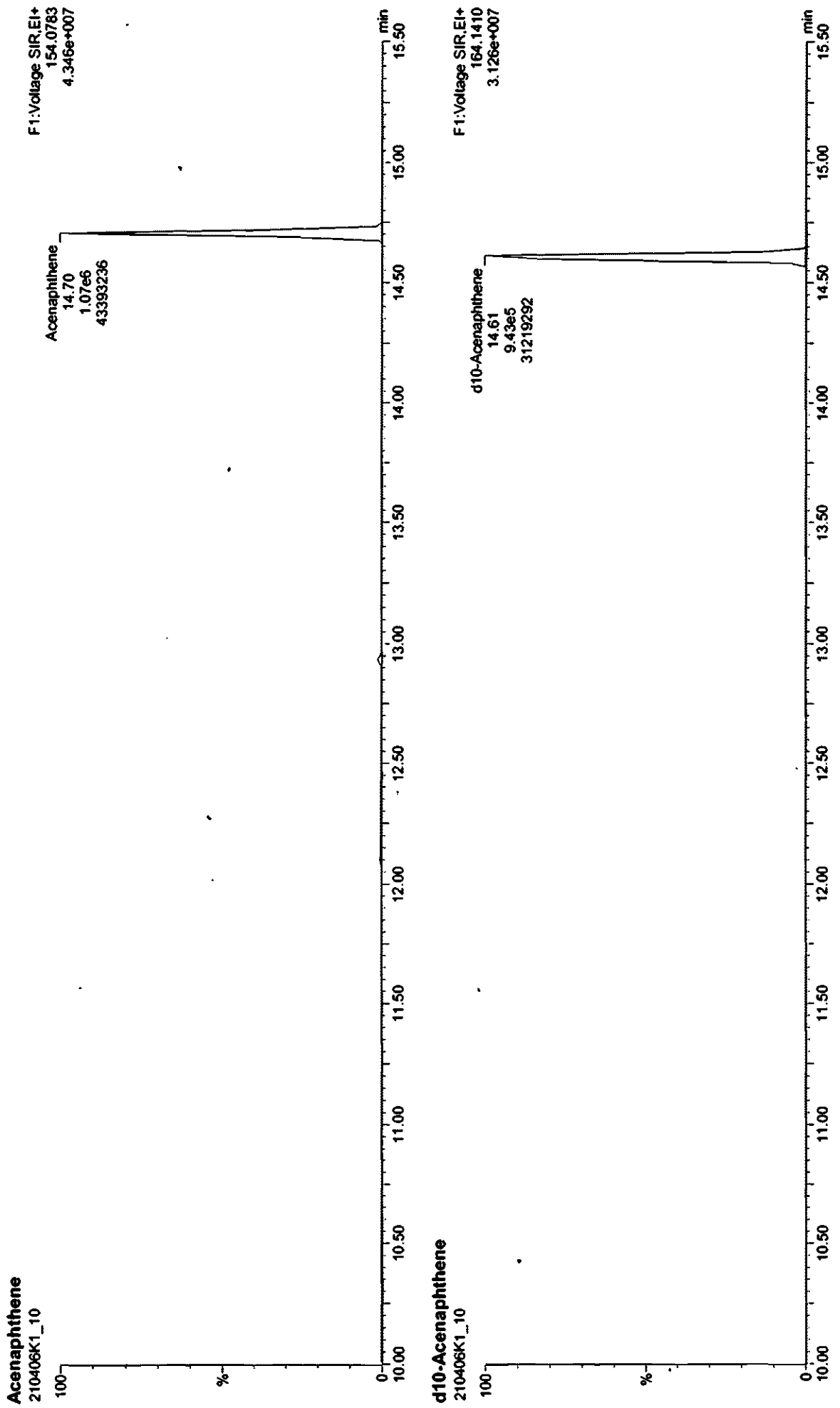
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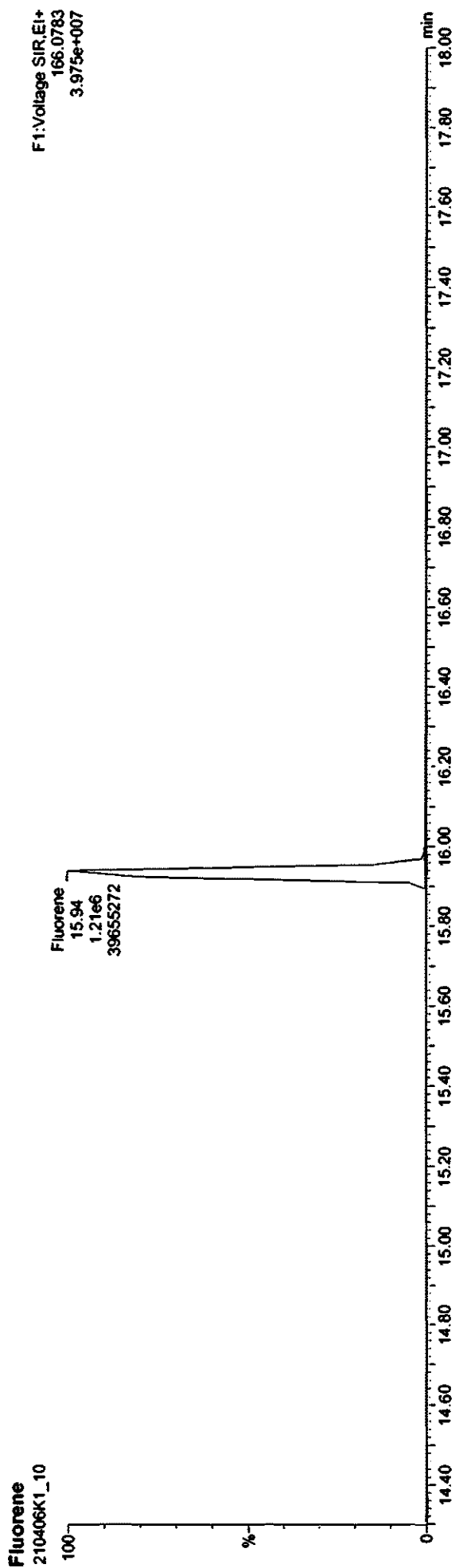
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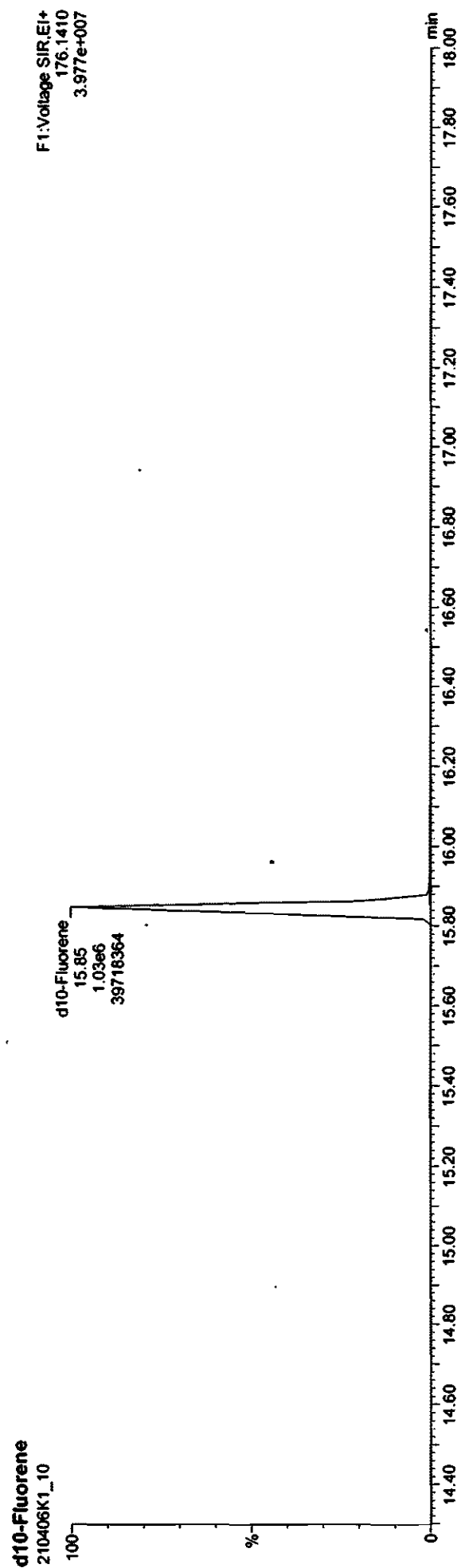
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD



F1:Voltage SIR,EI+
166.0783
3.975e+007



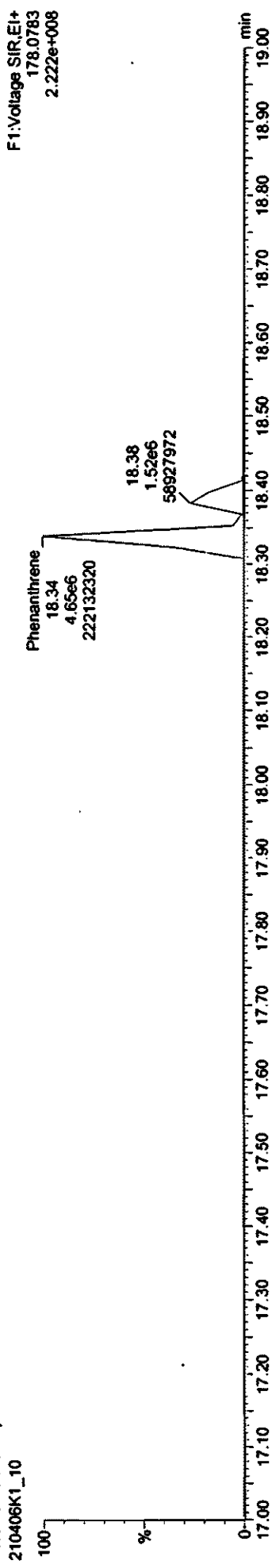
F1:Voltage SIR,EI+
176.1410
3.977e+007

Dataset: Untitled

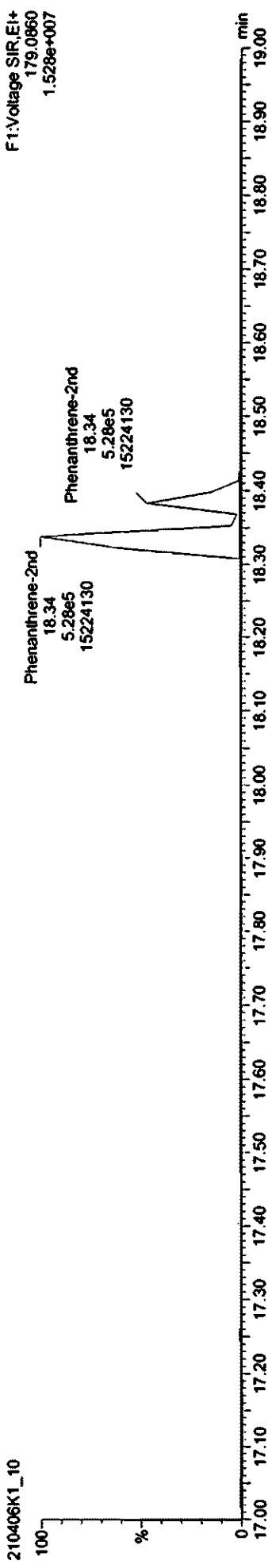
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Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

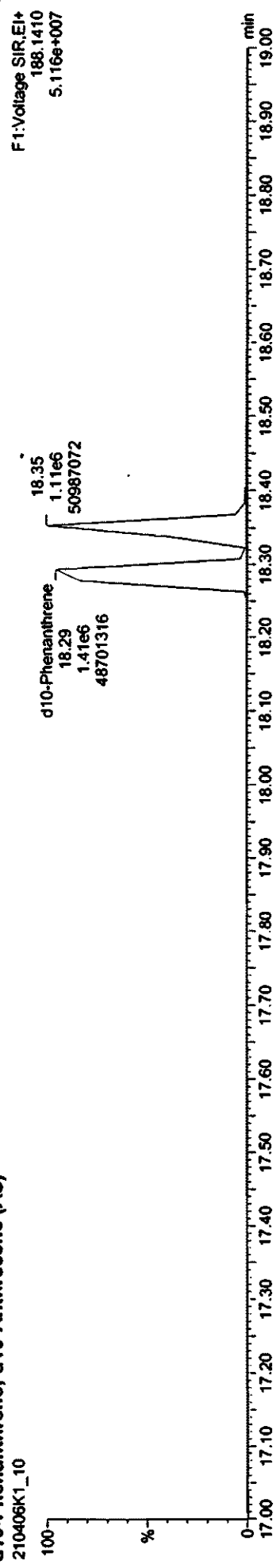
Phenanthrene; Anthracene



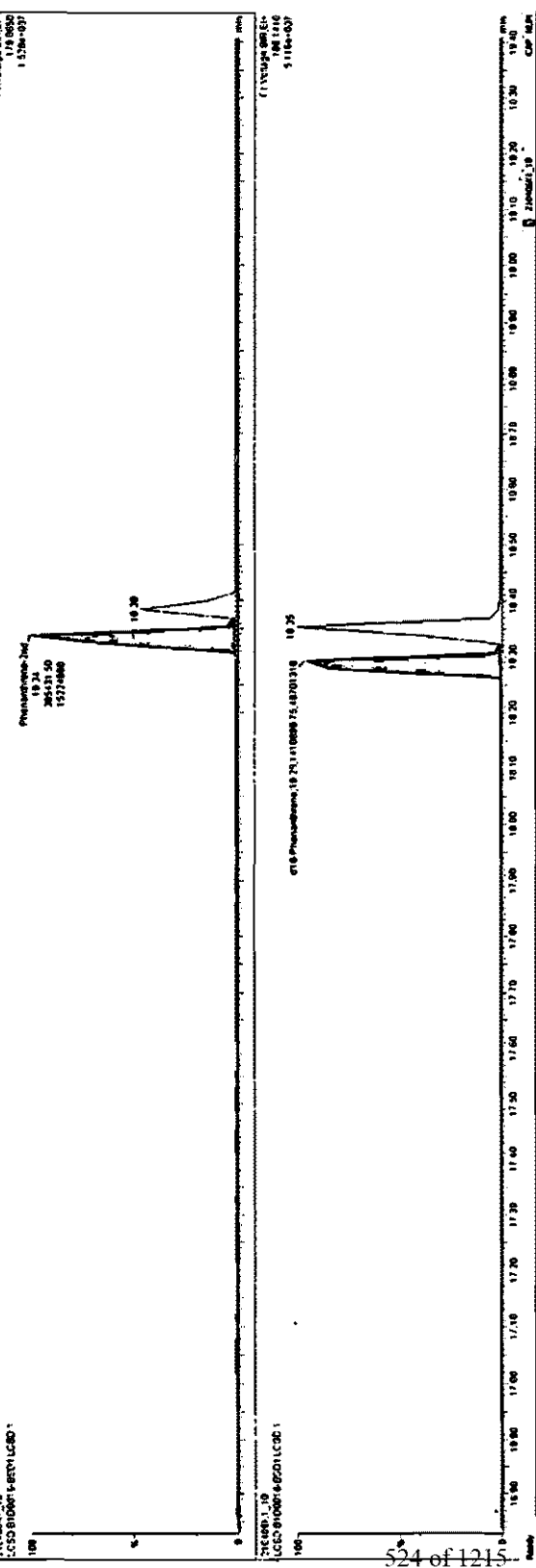
Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)



| Peak | Time | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|------|------|--------|--------|-------|-------|---------|--------|--------|--------|-------|-------|---------|--------|
| 1 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 2 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 3 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 4 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 5 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 6 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 7 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 8 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 9 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 10 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 11 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 12 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 13 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |
| 14 | 1.24 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 | 1.12E6 | 1.10E4 | 10.14 | 10.14 | 10.14 | 10.14 |



| Time (min) | Abundance |
|------------|-----------|
| 15.00 | 0 |
| 16.00 | 0 |
| 17.00 | 0 |
| 18.00 | 0 |
| 19.00 | 0 |

Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

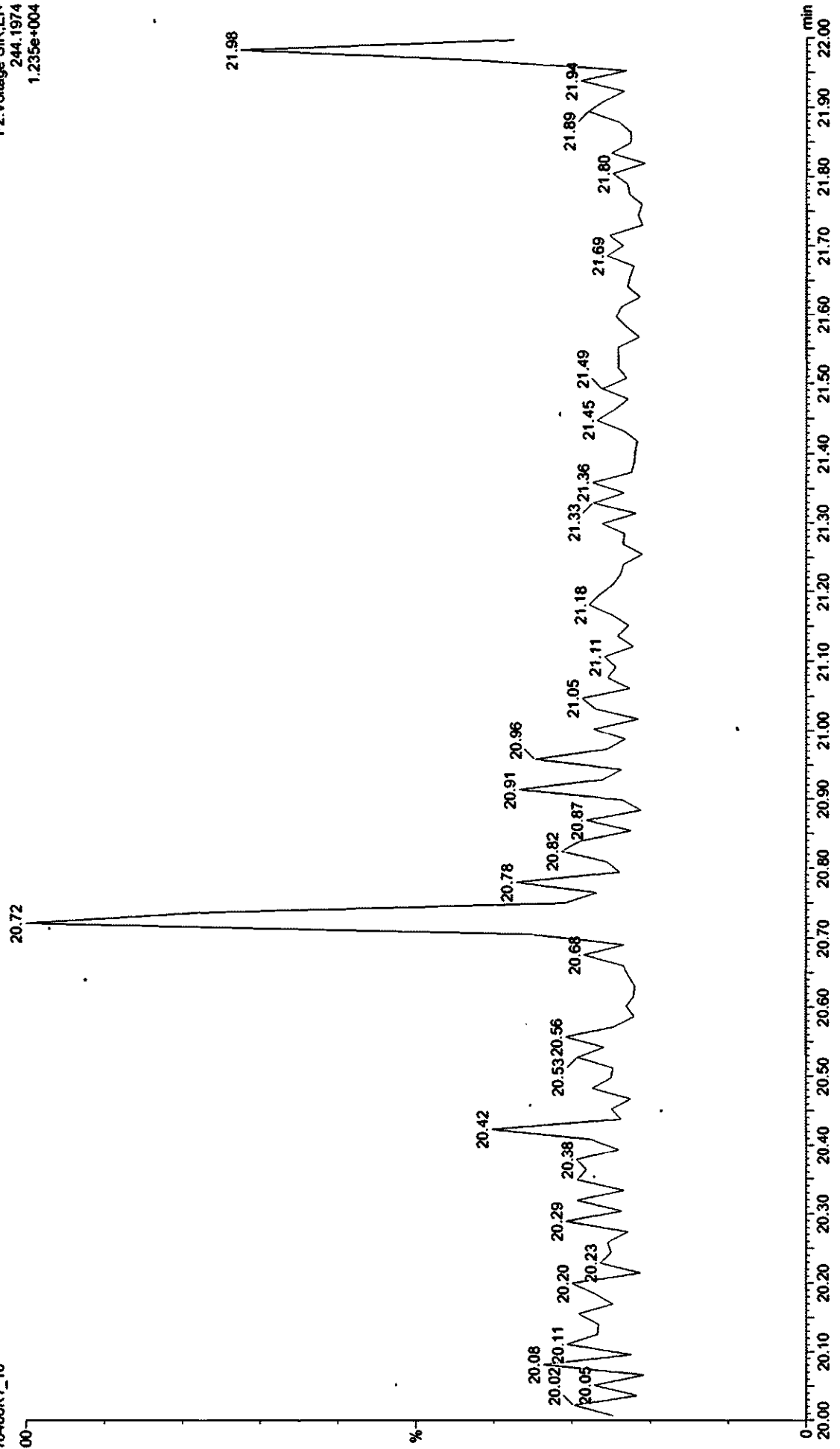
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

d14-Terphenyl (PS)

210406K1_10

F2:Voltage SIR.EI+
244.1974
1.235e+004

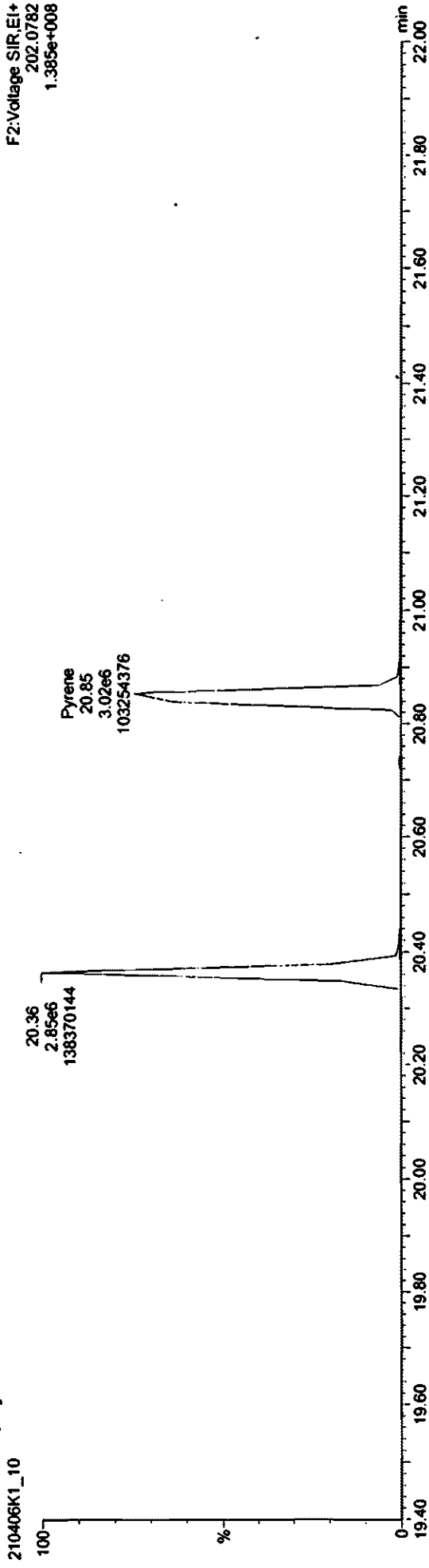


Dataset: Untitled

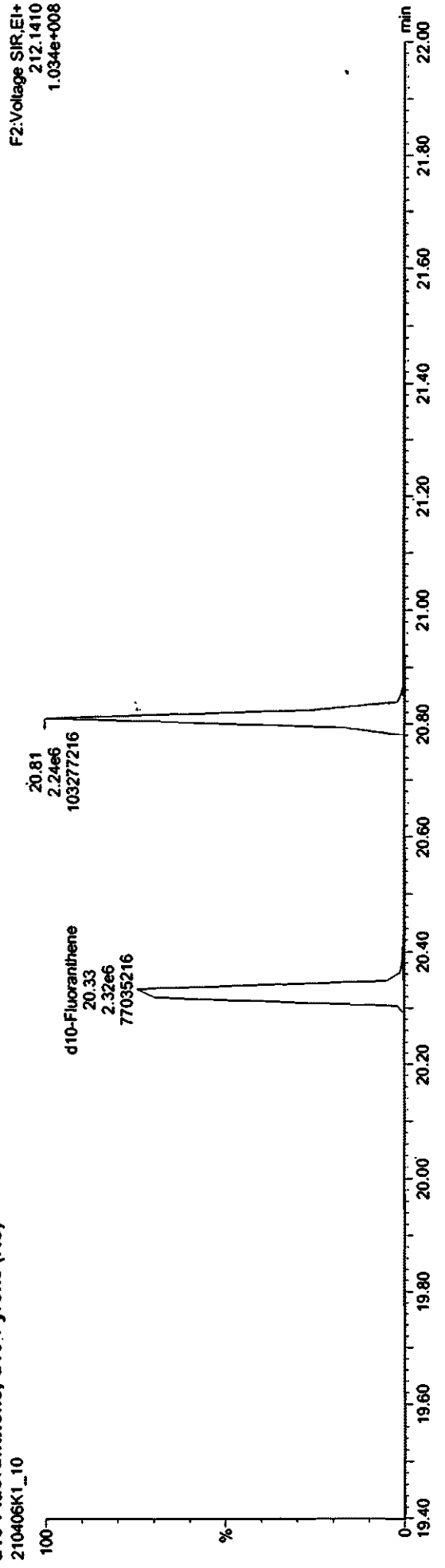
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

Fluoranthene; Pyrene



d10-Fluoranthene; d10-Pyrene (RS)



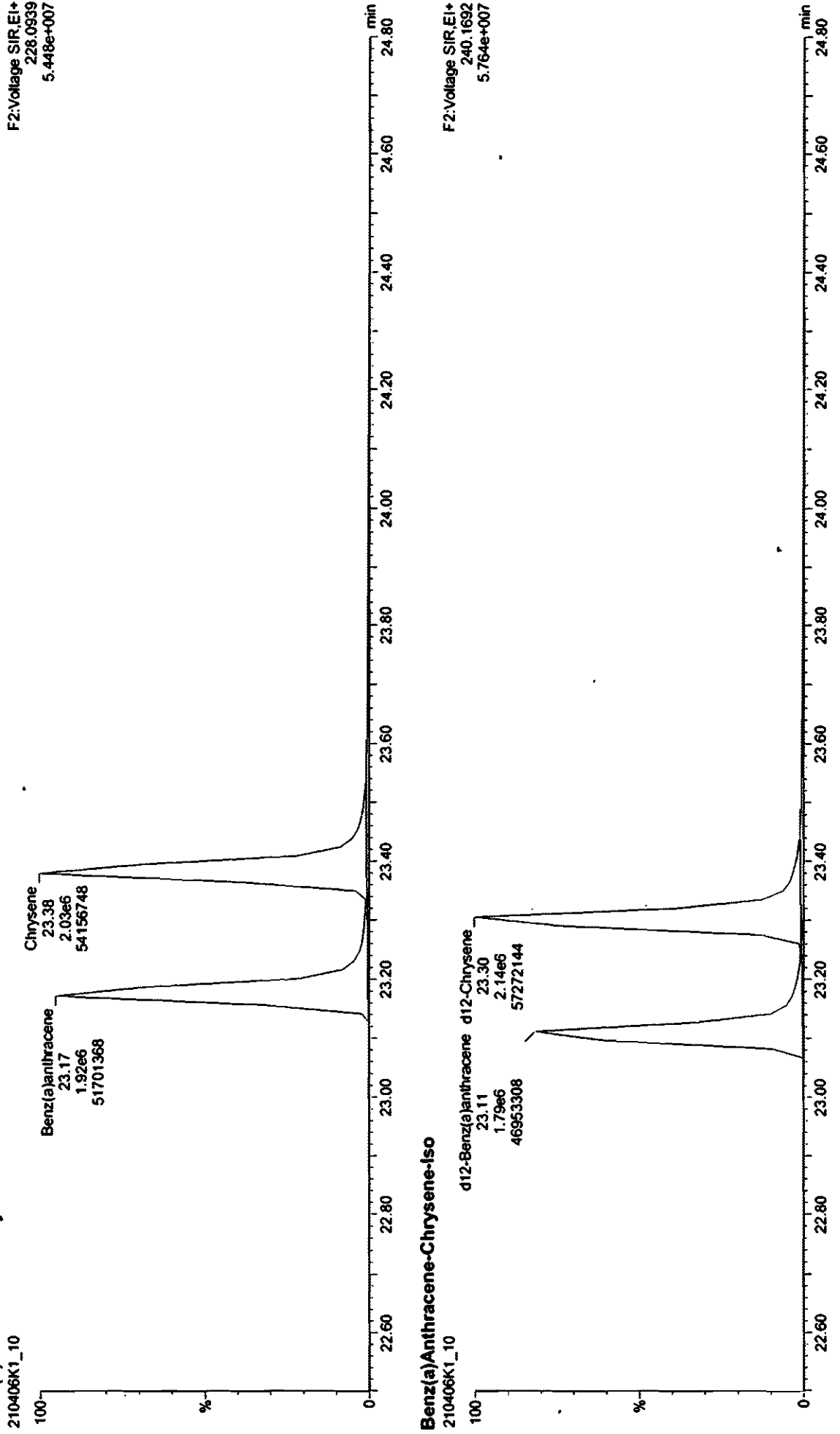
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

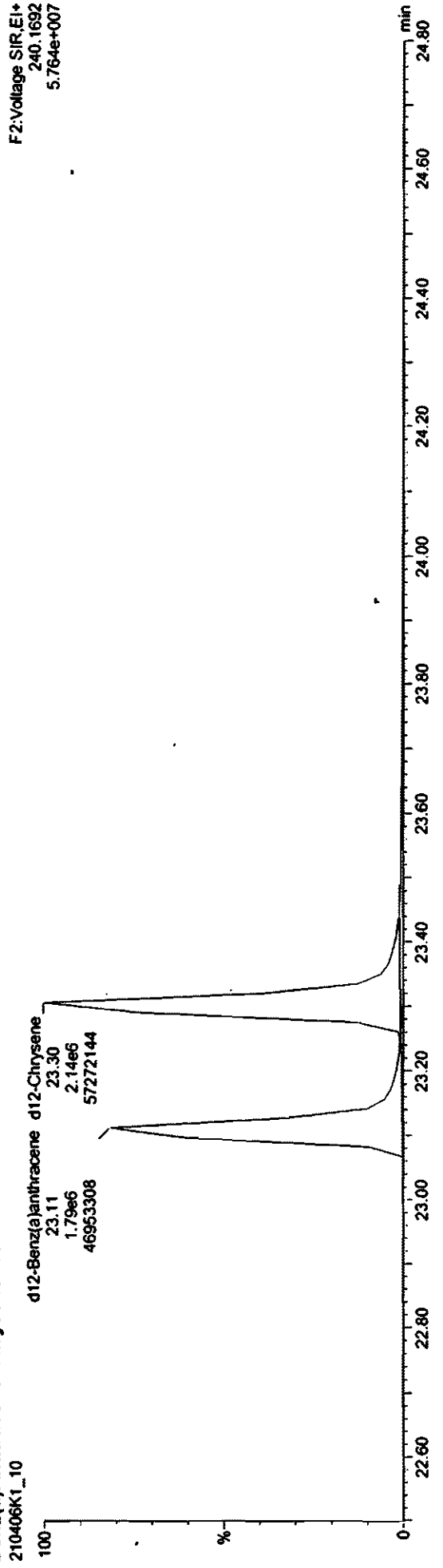
Benz(a)Anthracene-Chrysene

F2:Voltage SIR.EI+
228.0939
5.448e+007



Benz(a)Anthracene-Chrysene-Iso

F2:Voltage SIR.EI+
240.1692
5.764e+007

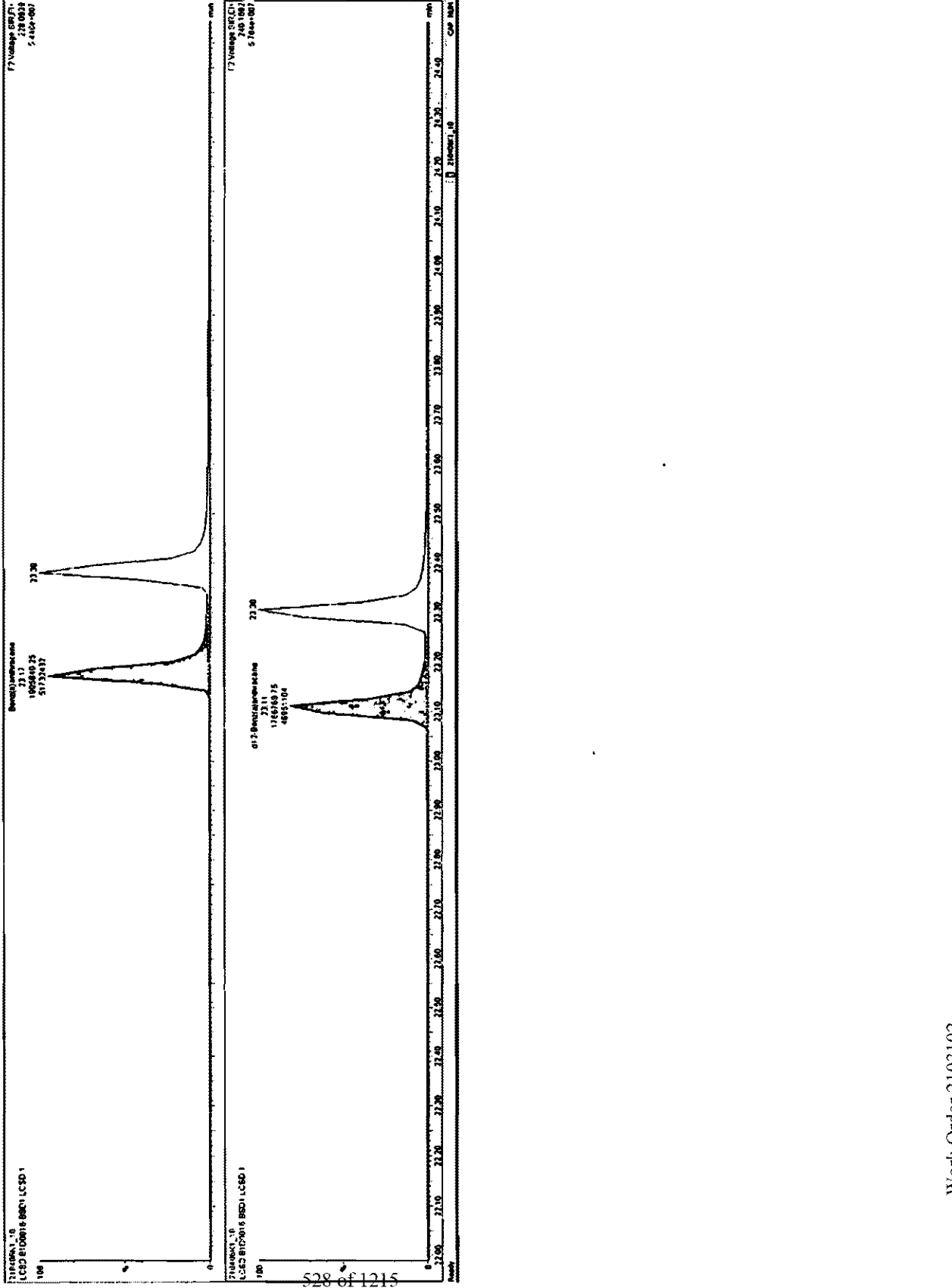


Chromatogram

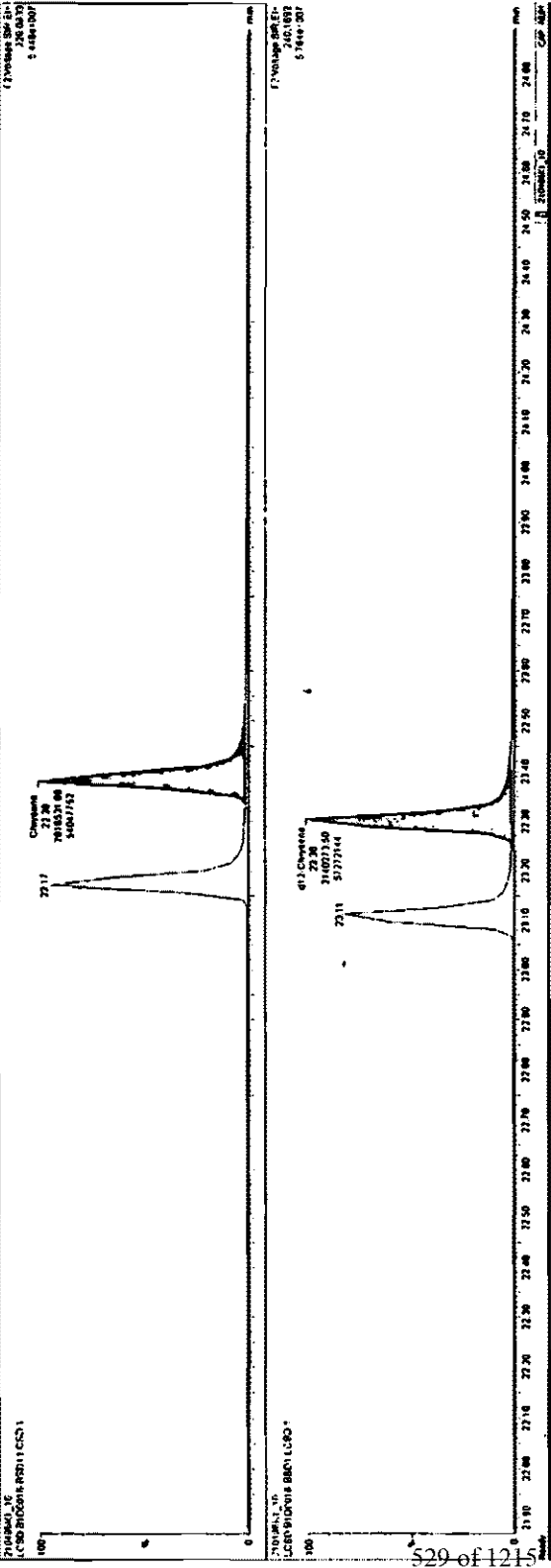
Method: 1000001

Sample Name: 1000001

| Peak | RT | Area | Height | Width | Area% | Height% | Width% |
|------|-------|--------|--------|-------|-------|---------|--------|
| 1 | 11.26 | 112600 | 11260 | 11.26 | 11.26 | 11.26 | 11.26 |
| 2 | 11.30 | 113000 | 11300 | 11.30 | 11.30 | 11.30 | 11.30 |
| 3 | 11.34 | 113400 | 11340 | 11.34 | 11.34 | 11.34 | 11.34 |
| 4 | 11.38 | 113800 | 11380 | 11.38 | 11.38 | 11.38 | 11.38 |
| 5 | 11.42 | 114200 | 11420 | 11.42 | 11.42 | 11.42 | 11.42 |
| 6 | 11.46 | 114600 | 11460 | 11.46 | 11.46 | 11.46 | 11.46 |
| 7 | 11.50 | 115000 | 11500 | 11.50 | 11.50 | 11.50 | 11.50 |
| 8 | 11.54 | 115400 | 11540 | 11.54 | 11.54 | 11.54 | 11.54 |
| 9 | 11.58 | 115800 | 11580 | 11.58 | 11.58 | 11.58 | 11.58 |
| 10 | 11.62 | 116200 | 11620 | 11.62 | 11.62 | 11.62 | 11.62 |
| 11 | 11.66 | 116600 | 11660 | 11.66 | 11.66 | 11.66 | 11.66 |
| 12 | 11.70 | 117000 | 11700 | 11.70 | 11.70 | 11.70 | 11.70 |
| 13 | 11.74 | 117400 | 11740 | 11.74 | 11.74 | 11.74 | 11.74 |
| 14 | 11.78 | 117800 | 11780 | 11.78 | 11.78 | 11.78 | 11.78 |
| 15 | 11.82 | 118200 | 11820 | 11.82 | 11.82 | 11.82 | 11.82 |
| 16 | 11.86 | 118600 | 11860 | 11.86 | 11.86 | 11.86 | 11.86 |
| 17 | 11.90 | 119000 | 11900 | 11.90 | 11.90 | 11.90 | 11.90 |
| 18 | 11.94 | 119400 | 11940 | 11.94 | 11.94 | 11.94 | 11.94 |
| 19 | 11.98 | 119800 | 11980 | 11.98 | 11.98 | 11.98 | 11.98 |
| 20 | 12.02 | 120200 | 12020 | 12.02 | 12.02 | 12.02 | 12.02 |
| 21 | 12.06 | 120600 | 12060 | 12.06 | 12.06 | 12.06 | 12.06 |
| 22 | 12.10 | 121000 | 12100 | 12.10 | 12.10 | 12.10 | 12.10 |
| 23 | 12.14 | 121400 | 12140 | 12.14 | 12.14 | 12.14 | 12.14 |
| 24 | 12.18 | 121800 | 12180 | 12.18 | 12.18 | 12.18 | 12.18 |
| 25 | 12.22 | 122200 | 12220 | 12.22 | 12.22 | 12.22 | 12.22 |
| 26 | 12.26 | 122600 | 12260 | 12.26 | 12.26 | 12.26 | 12.26 |
| 27 | 12.30 | 123000 | 12300 | 12.30 | 12.30 | 12.30 | 12.30 |
| 28 | 12.34 | 123400 | 12340 | 12.34 | 12.34 | 12.34 | 12.34 |
| 29 | 12.38 | 123800 | 12380 | 12.38 | 12.38 | 12.38 | 12.38 |
| 30 | 12.42 | 124200 | 12420 | 12.42 | 12.42 | 12.42 | 12.42 |
| 31 | 12.46 | 124600 | 12460 | 12.46 | 12.46 | 12.46 | 12.46 |
| 32 | 12.50 | 125000 | 12500 | 12.50 | 12.50 | 12.50 | 12.50 |
| 33 | 12.54 | 125400 | 12540 | 12.54 | 12.54 | 12.54 | 12.54 |
| 34 | 12.58 | 125800 | 12580 | 12.58 | 12.58 | 12.58 | 12.58 |
| 35 | 12.62 | 126200 | 12620 | 12.62 | 12.62 | 12.62 | 12.62 |
| 36 | 12.66 | 126600 | 12660 | 12.66 | 12.66 | 12.66 | 12.66 |
| 37 | 12.70 | 127000 | 12700 | 12.70 | 12.70 | 12.70 | 12.70 |
| 38 | 12.74 | 127400 | 12740 | 12.74 | 12.74 | 12.74 | 12.74 |
| 39 | 12.78 | 127800 | 12780 | 12.78 | 12.78 | 12.78 | 12.78 |
| 40 | 12.82 | 128200 | 12820 | 12.82 | 12.82 | 12.82 | 12.82 |
| 41 | 12.86 | 128600 | 12860 | 12.86 | 12.86 | 12.86 | 12.86 |
| 42 | 12.90 | 129000 | 12900 | 12.90 | 12.90 | 12.90 | 12.90 |
| 43 | 12.94 | 129400 | 12940 | 12.94 | 12.94 | 12.94 | 12.94 |
| 44 | 12.98 | 129800 | 12980 | 12.98 | 12.98 | 12.98 | 12.98 |
| 45 | 13.02 | 130200 | 13020 | 13.02 | 13.02 | 13.02 | 13.02 |
| 46 | 13.06 | 130600 | 13060 | 13.06 | 13.06 | 13.06 | 13.06 |
| 47 | 13.10 | 131000 | 13100 | 13.10 | 13.10 | 13.10 | 13.10 |
| 48 | 13.14 | 131400 | 13140 | 13.14 | 13.14 | 13.14 | 13.14 |
| 49 | 13.18 | 131800 | 13180 | 13.18 | 13.18 | 13.18 | 13.18 |
| 50 | 13.22 | 132200 | 13220 | 13.22 | 13.22 | 13.22 | 13.22 |
| 51 | 13.26 | 132600 | 13260 | 13.26 | 13.26 | 13.26 | 13.26 |
| 52 | 13.30 | 133000 | 13300 | 13.30 | 13.30 | 13.30 | 13.30 |
| 53 | 13.34 | 133400 | 13340 | 13.34 | 13.34 | 13.34 | 13.34 |
| 54 | 13.38 | 133800 | 13380 | 13.38 | 13.38 | 13.38 | 13.38 |
| 55 | 13.42 | 134200 | 13420 | 13.42 | 13.42 | 13.42 | 13.42 |
| 56 | 13.46 | 134600 | 13460 | 13.46 | 13.46 | 13.46 | 13.46 |
| 57 | 13.50 | 135000 | 13500 | 13.50 | 13.50 | 13.50 | 13.50 |
| 58 | 13.54 | 135400 | 13540 | 13.54 | 13.54 | 13.54 | 13.54 |
| 59 | 13.58 | 135800 | 13580 | 13.58 | 13.58 | 13.58 | 13.58 |
| 60 | 13.62 | 136200 | 13620 | 13.62 | 13.62 | 13.62 | 13.62 |
| 61 | 13.66 | 136600 | 13660 | 13.66 | 13.66 | 13.66 | 13.66 |
| 62 | 13.70 | 137000 | 13700 | 13.70 | 13.70 | 13.70 | 13.70 |
| 63 | 13.74 | 137400 | 13740 | 13.74 | 13.74 | 13.74 | 13.74 |
| 64 | 13.78 | 137800 | 13780 | 13.78 | 13.78 | 13.78 | 13.78 |
| 65 | 13.82 | 138200 | 13820 | 13.82 | 13.82 | 13.82 | 13.82 |
| 66 | 13.86 | 138600 | 13860 | 13.86 | 13.86 | 13.86 | 13.86 |
| 67 | 13.90 | 139000 | 13900 | 13.90 | 13.90 | 13.90 | 13.90 |
| 68 | 13.94 | 139400 | 13940 | 13.94 | 13.94 | 13.94 | 13.94 |
| 69 | 13.98 | 139800 | 13980 | 13.98 | 13.98 | 13.98 | 13.98 |
| 70 | 14.02 | 140200 | 14020 | 14.02 | 14.02 | 14.02 | 14.02 |
| 71 | 14.06 | 140600 | 14060 | 14.06 | 14.06 | 14.06 | 14.06 |
| 72 | 14.10 | 141000 | 14100 | 14.10 | 14.10 | 14.10 | 14.10 |
| 73 | 14.14 | 141400 | 14140 | 14.14 | 14.14 | 14.14 | 14.14 |
| 74 | 14.18 | 141800 | 14180 | 14.18 | 14.18 | 14.18 | 14.18 |
| 75 | 14.22 | 142200 | 14220 | 14.22 | 14.22 | 14.22 | 14.22 |
| 76 | 14.26 | 142600 | 14260 | 14.26 | 14.26 | 14.26 | 14.26 |
| 77 | 14.30 | 143000 | 14300 | 14.30 | 14.30 | 14.30 | 14.30 |
| 78 | 14.34 | 143400 | 14340 | 14.34 | 14.34 | 14.34 | 14.34 |
| 79 | 14.38 | 143800 | 14380 | 14.38 | 14.38 | 14.38 | 14.38 |
| 80 | 14.42 | 144200 | 14420 | 14.42 | 14.42 | 14.42 | 14.42 |
| 81 | 14.46 | 144600 | 14460 | 14.46 | 14.46 | 14.46 | 14.46 |
| 82 | 14.50 | 145000 | 14500 | 14.50 | 14.50 | 14.50 | 14.50 |
| 83 | 14.54 | 145400 | 14540 | 14.54 | 14.54 | 14.54 | 14.54 |
| 84 | 14.58 | 145800 | 14580 | 14.58 | 14.58 | 14.58 | 14.58 |
| 85 | 14.62 | 146200 | 14620 | 14.62 | 14.62 | 14.62 | 14.62 |
| 86 | 14.66 | 146600 | 14660 | 14.66 | 14.66 | 14.66 | 14.66 |
| 87 | 14.70 | 147000 | 14700 | 14.70 | 14.70 | 14.70 | 14.70 |
| 88 | 14.74 | 147400 | 14740 | 14.74 | 14.74 | 14.74 | 14.74 |
| 89 | 14.78 | 147800 | 14780 | 14.78 | 14.78 | 14.78 | 14.78 |
| 90 | 14.82 | 148200 | 14820 | 14.82 | 14.82 | 14.82 | 14.82 |
| 91 | 14.86 | 148600 | 14860 | 14.86 | 14.86 | 14.86 | 14.86 |
| 92 | 14.90 | 149000 | 14900 | 14.90 | 14.90 | 14.90 | 14.90 |
| 93 | 14.94 | 149400 | 14940 | 14.94 | 14.94 | 14.94 | 14.94 |
| 94 | 14.98 | 149800 | 14980 | 14.98 | 14.98 | 14.98 | 14.98 |
| 95 | 15.02 | 150200 | 15020 | 15.02 | 15.02 | 15.02 | 15.02 |
| 96 | 15.06 | 150600 | 15060 | 15.06 | 15.06 | 15.06 | 15.06 |
| 97 | 15.10 | 151000 | 15100 | 15.10 | 15.10 | 15.10 | 15.10 |
| 98 | 15.14 | 151400 | 15140 | 15.14 | 15.14 | 15.14 | 15.14 |
| 99 | 15.18 | 151800 | 15180 | 15.18 | 15.18 | 15.18 | 15.18 |
| 100 | 15.22 | 152200 | 15220 | 15.22 | 15.22 | 15.22 | 15.22 |



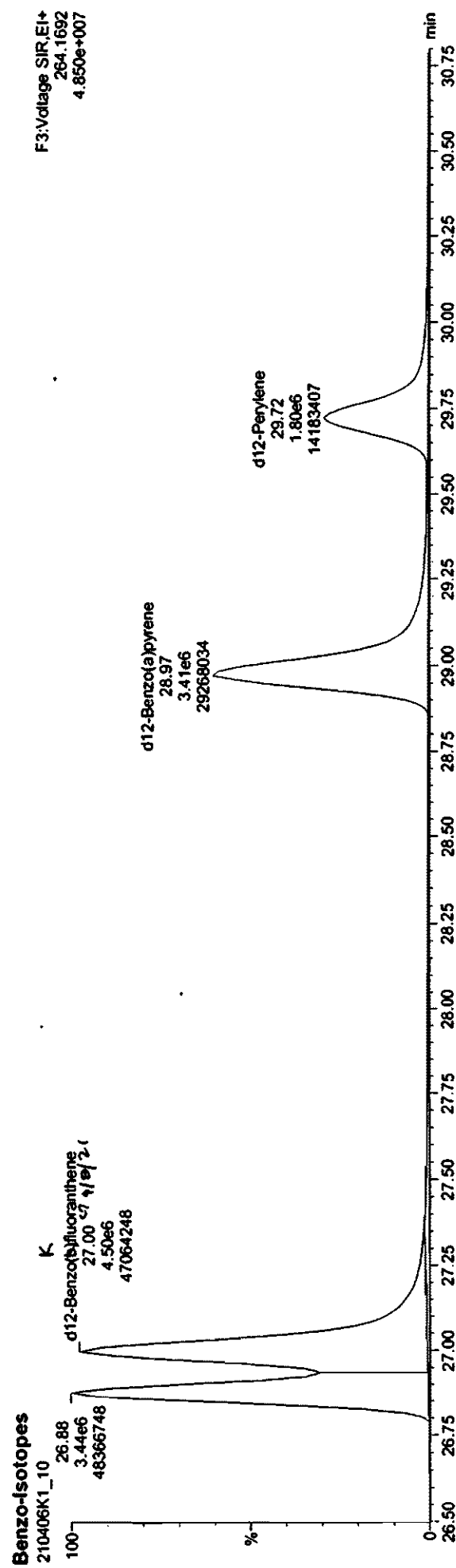
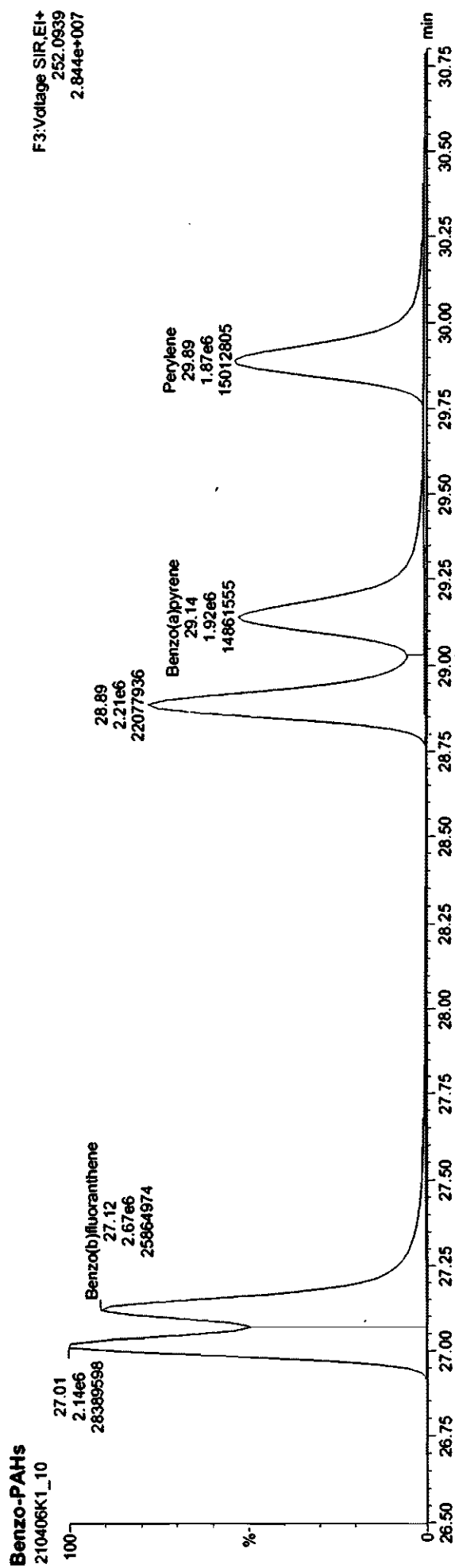
| Peak | RT | Area | Height | Width | Skew | Asym | Resolution | Height | Area | Height | Width | Skew | Asym | Resolution | Height | Area | Height | Width | Skew | Asym | Resolution |
|------|-------|-------|--------|-------|------|------|------------|--------|-------|--------|-------|------|------|------------|--------|-------|--------|-------|------|------|------------|
| 1 | 21.17 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 21.30 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 21.31 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 21.32 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5 | 21.33 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6 | 21.34 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7 | 21.35 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 21.36 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 21.37 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 21.38 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11 | 21.39 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 12 | 21.40 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 13 | 21.41 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |
| 14 | 21.42 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11100 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 |



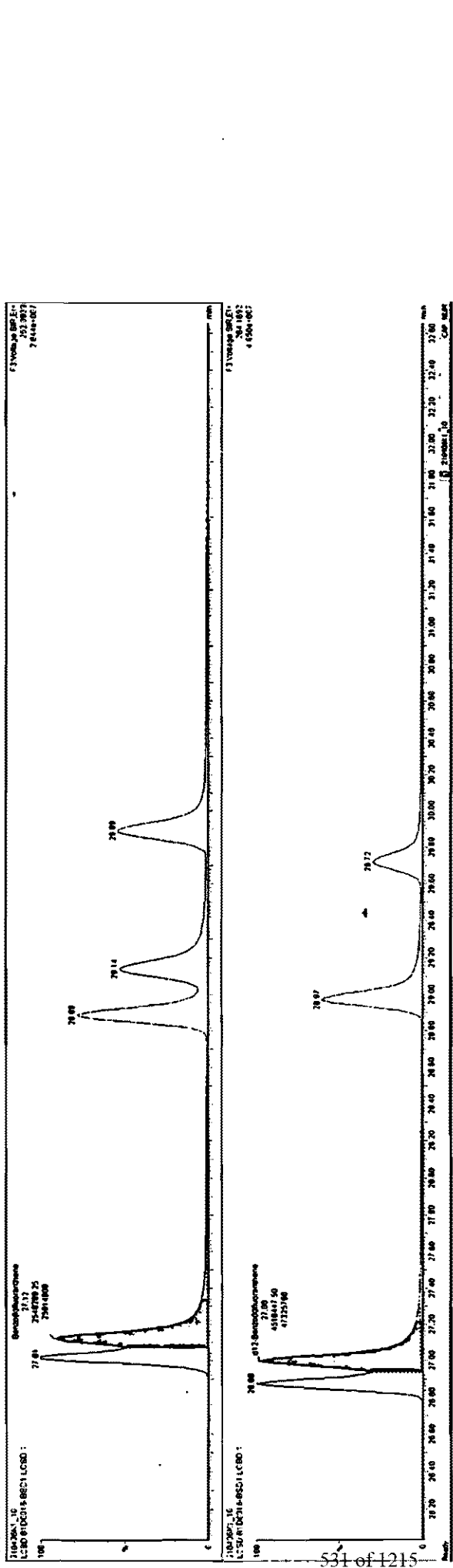
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD



| Time | Area | Height | Width | Peak # | RT | RT1 | Peak Area | Area % | Conc. | Unit |
|------|-------|--------|-------|--------|-------|-------|-----------|--------|-------|-------|
| 13 | 25508 | 4.234 | 1.070 | 1 | 27.11 | 27.13 | 1.070 | 100 | 214 | 0.200 |
| 14 | 27148 | 4.234 | 0.915 | 1 | 28.91 | 28.93 | 1.070 | 100 | 214 | 0.200 |
| 15 | 27148 | 3.168 | 1.017 | 1 | 28.15 | 28.17 | 1.070 | 100 | 222 | 0.200 |
| 16 | 27148 | 3.168 | 0.874 | 1 | 29.88 | 29.90 | 1.070 | 100 | 222 | 0.200 |
| 17 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 18 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 19 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 20 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 21 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 22 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 23 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 24 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 25 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 26 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 27 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 28 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 29 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |
| 30 | 27148 | 3.168 | 0.874 | 1 | 27.55 | 27.57 | 1.070 | 100 | 222 | 0.200 |

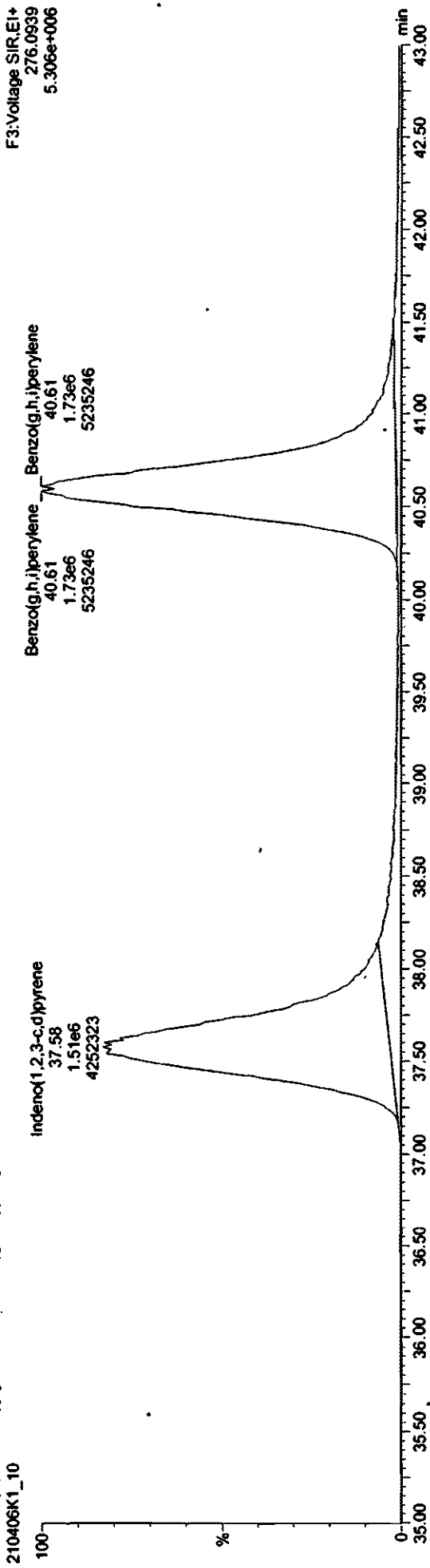


Dataset: Untitled

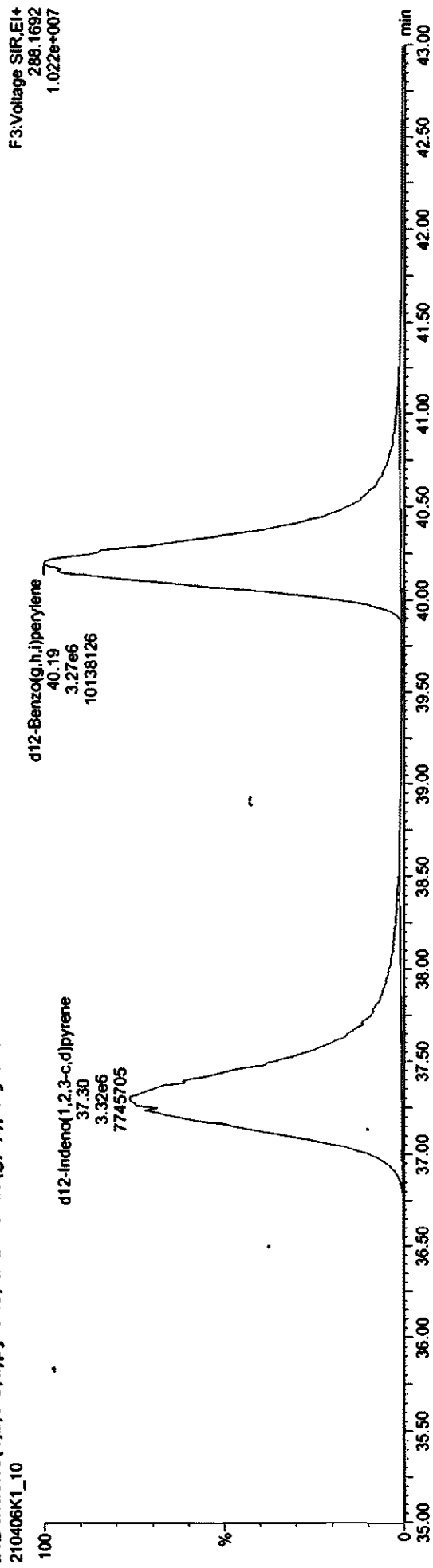
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

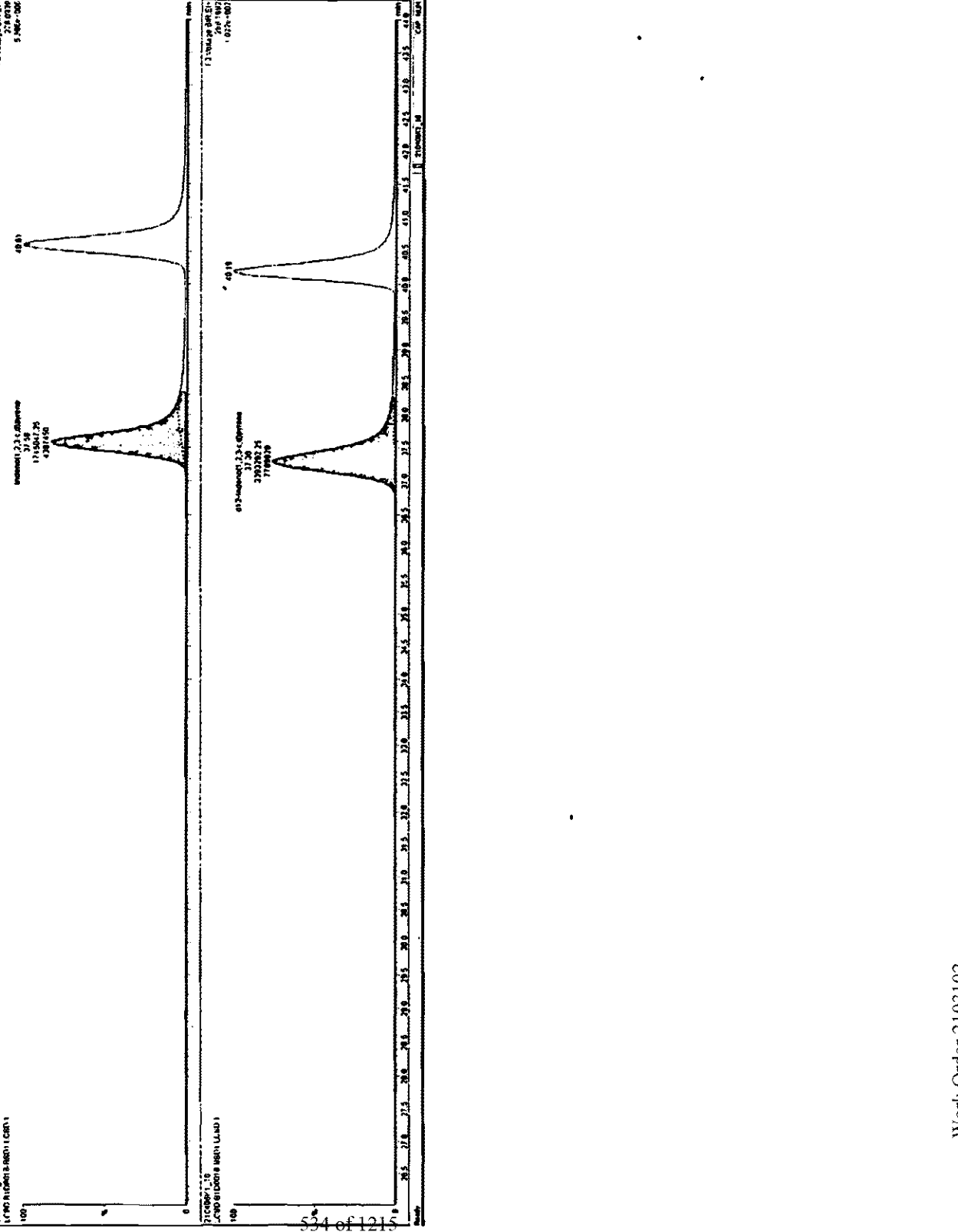
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene



| Peak # | Retention Time (min) | Peak Name | Area | Height | Width | Resolution | Integration | Concentration | Weight |
|--------|----------------------|---------------|---------|--------|----------|------------|-------------|---------------|--------|
| 15 | 11.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 16 | 21.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 17 | 31.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 18 | 41.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 19 | 51.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 20 | 61.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 21 | 71.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 22 | 81.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 23 | 91.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 24 | 101.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 25 | 111.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 26 | 121.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 27 | 131.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 28 | 141.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 29 | 151.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 30 | 161.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 31 | 171.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 32 | 181.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 33 | 191.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 34 | 201.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 35 | 211.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 36 | 221.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 37 | 231.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 38 | 241.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 39 | 251.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 40 | 261.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 41 | 271.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 42 | 281.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 43 | 291.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 44 | 301.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 45 | 311.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 46 | 321.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 47 | 331.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 48 | 341.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 49 | 351.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 50 | 361.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 51 | 371.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 52 | 381.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 53 | 391.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 54 | 401.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 55 | 411.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 56 | 421.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 57 | 431.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 58 | 441.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 59 | 451.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 60 | 461.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 61 | 471.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 62 | 481.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 63 | 491.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 64 | 501.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 65 | 511.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 66 | 521.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 67 | 531.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 68 | 541.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 69 | 551.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 70 | 561.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 71 | 571.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 72 | 581.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 73 | 591.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |
| 74 | 601.561726 | 2,3,4-Dibromo | 4281498 | 37.59 | 4.881498 | | | 0.200 | 0.000 |



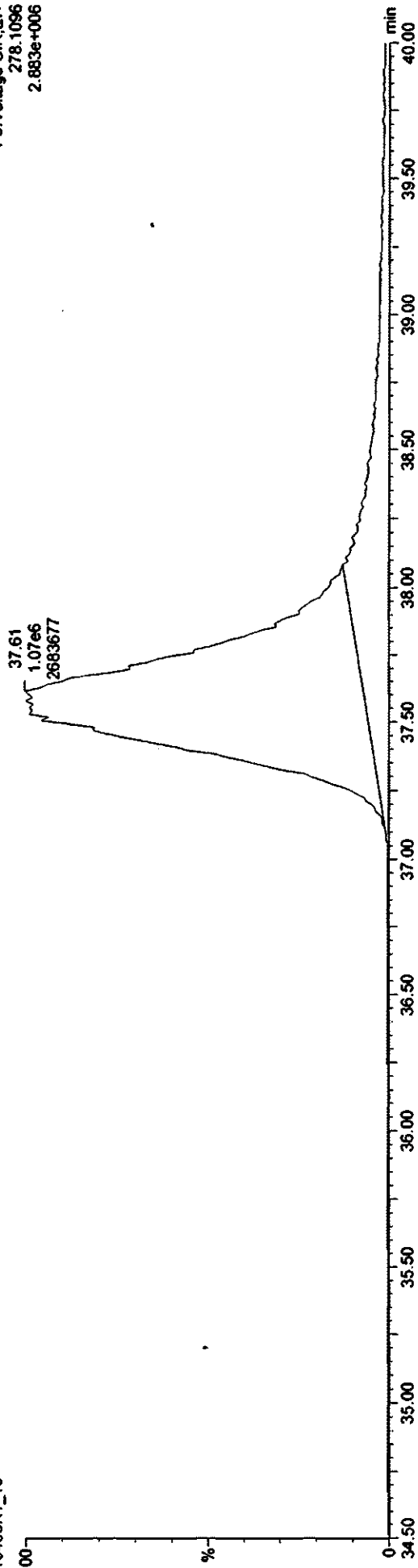
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_10, Date: 06-Apr-2021, Time: 18:16:23, ID: B1D0016-BSD1 LCSD 1, Description: LCSD

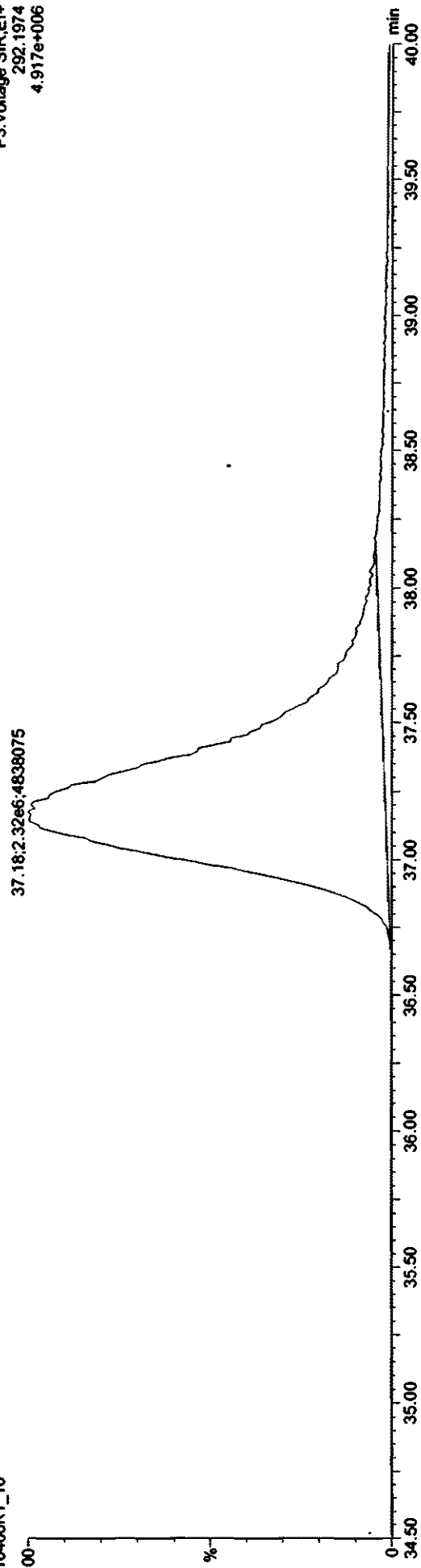
Dibenz(a,h)anthracene
210406K1_10

F3:Voltage SIR,EI+
278.1096
2.883e+006



d14-Dibenz(a,h)anthracene
210406K1_10

F3:Voltage SIR,EI+
292.1974
4.917e+006



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-4.qld

Last Altered: Wednesday, April 07, 2021 11:09:15 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:09:30 AM Pacific Daylight Time

4.7.2021

04/08/2021

Ⓡ IS not 10:1
X yz dil

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1

| # | Name | Resp | IS Resp | RRF | μl/vol | Pred.RT | RT | L | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|--------------------------|--------|---------|--------|--------|---------|-------|---|---------|-------|---------|---------|------|-------|
| 1 | Naphthalene | 1.82e8 | 6.97e5 | 1.16 | 1.000 | 10.28 | 10.25 | | 1.006 | 1.003 | NO | 440200 | 5AT | 1660 |
| 2 | Naphthalene-2nd | 1.27e8 | 6.97e5 | 0.128 | 1.000 | 10.28 | 10.31 | | 1.006 | 1.009 | NO | 2885000 | 5AT | 7420 |
| 3 | 2-Methylnaphthalene | 1.12e8 | 4.34e5 | 1.38 | 1.000 | 11.63 | 11.68 | | 0.794 | 0.798 | NO | 37600 | 5AT | 365 |
| 4 | Acenaphthylene | 3.90e6 | 9.40e5 | 1.12 | 1.000 | 14.40 | 14.40 | | 1.003 | 1.003 | NO | 744 | EX | 305 |
| 5 | Acenaphthene | 2.42e7 | 4.34e5 | 1.10 | 1.000 | 14.73 | 14.73 | | 1.006 | 1.006 | NO | 840100 | EX | 583 |
| 6 | Fluorene | 2.65e7 | 6.41e5 | 1.15 | 1.000 | 15.95 | 15.95 | | 1.006 | 1.006 | NO | 7170 | EX | 288 |
| 7 | Phenanthrene | 3.24e7 | 7.31e5 | 1.19 | 1.000 | 18.33 | 18.31 | | 1.002 | 1.001 | NO | 7480 | 5AT | 343 |
| 8 | Phenanthrene-2nd | 5.04e6 | 7.31e5 | 0.0925 | 1.000 | 18.33 | 18.31 | | 1.002 | 1.001 | NO | 14900 | EX | 3110 |
| 9 | Anthracene | 2.38e7 | 7.31e5 | 1.09 | 1.000 | 18.39 | 18.34 | | 1.005 | 1.002 | NO | 5960 | EX | 373 |
| 10 | Fluoranthene | 4.78e6 | 2.48e6 | 1.10 | 1.000 | 20.37 | 20.36 | | 1.002 | 1.002 | NO | 351 | | 12.5 |
| 11 | Pyrene | 1.15e7 | 2.48e6 | 1.20 | 1.000 | 20.85 | 20.84 | | 1.026 | 1.026 | NO | 776 | EX | 11.5 |
| 12 | Benz(a)anthracene | 1.18e5 | 2.21e6 | 0.961 | 1.000 | 23.16 | 23.16 | | 1.003 | 1.003 | NO | 11.1 | | 2.86 |
| 13 | Chrysene | 8.32e5 | 2.36e6 | 0.852 | 1.000 | 23.37 | 23.36 | | 1.003 | 1.003 | NO | 82.7 | | 3.13 |
| 14 | Benzo(b)fluoranthene | 2.14e5 | 3.75e6 | 1.10 | 1.000 | 26.94 | 26.92 | | 1.005 | 1.005 | NO | 20.7 | | 0.143 |
| 15 | Benzo(k)fluoranthene | 4.75e4 | 4.29e6 | 1.04 | 1.000 | 27.03 | 27.02 | | 1.004 | 1.004 | NO | 4.26 | | 0.158 |
| 16 | Benzo(e)pyrene | 9.43e5 | 4.29e6 | 0.911 | 1.000 | 28.72 | 28.73 | | 1.067 | 1.068 | NO | 96.4 | | 0.180 |
| 17 | Benzo(a)pyrene | 2.16e5 | 3.51e6 | 1.02 | 1.000 | 28.98 | 28.97 | | 1.006 | 1.005 | NO | 24.2 | | 0.221 |
| 18 | Perylene | 8.73e4 | 3.51e6 | 0.987 | 1.000 | 29.72 | 29.67 | | 1.031 | 1.030 | NO | 10.1 | | 0.228 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.91e5 | 2.65e6 | 0.915 | 1.000 | 36.76 | 36.74 | | 1.007 | 1.006 | NO | 31.4 | | 0.637 |
| 20 | Benzo(g,h,i)perylene | 1.51e6 | 2.57e6 | 0.940 | 1.000 | 40.12 | 40.05 | | 1.009 | 1.008 | NO | 251 | | 0.616 |
| 21 | Dibenz(a,h)anthracene | 2.30e6 | 0.948 | 1.000 | 1.000 | 36.71 | | | 1.011 | | YES | | | 0.516 |
| 22 | d8-Naphthalene | 6.97e5 | 2.48e6 | 1.20 | 1.000 | 10.18 | 10.22 | | 0.848 | 0.852 | NO | 46.8 | 23.4 | 10.8 |
| 23 | d8-Acenaphthylene | 9.40e5 | 2.48e6 | 0.905 | 1.000 | 14.42 | 14.35 | | 1.201 | 1.196 | NO | 83.9 | 42.6 | 62.2 |
| 24 | d10-Acenaphthene | 4.34e5 | 2.48e6 | 0.594 | 1.000 | 14.71 | 14.64 | | 1.226 | 1.220 | NO | 59.0 | 29.5 | 27.8 |
| 25 | d10-Fluorene | 6.41e5 | 2.48e6 | 0.563 | 1.000 | 15.96 | 15.86 | | 1.330 | 1.322 | NO | 92.1 | 46.0 | 37.2 |
| 26 | d10-Phenanthrene | 7.31e5 | 2.48e6 | 0.735 | 1.000 | 18.40 | 18.29 | | 1.533 | 1.524 | NO | 80.3 | 40.1 | 68.8 |
| 27 | d10-Fluoranthene | 2.48e6 | 2.48e6 | 1.29 | 1.000 | 20.33 | 20.32 | | 0.977 | 0.976 | NO | 156 | 77.8 | 1.32 |
| 28 | d12-Benz(a)anthracene | 2.21e6 | 2.48e6 | 0.900 | 1.000 | 23.11 | 23.10 | | 1.110 | 1.110 | NO | 198 | 99.1 | 2.87 |
| 29 | d12-Chrysene | 2.36e6 | 2.48e6 | 1.02 | 1.000 | 23.30 | 23.29 | | 1.120 | 1.119 | NO | 187 | 93.5 | 2.53 |
| 30 | d12-Benzo(b)fluoranthene | 3.75e6 | 2.13e6 | 1.18 | 1.000 | 26.76 | 26.80 | | 0.907 | 0.909 | NO | 297 | 74.4 | 0.136 |
| 31 | d12-Benzo(k)fluoranthene | 4.29e6 | 2.13e6 | 1.50 | 1.000 | 26.87 | 26.91 | | 0.911 | 0.912 | NO | 268 | 67.0 | 0.107 |

Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11\PROIResults\210406K2\210406K2-4.qld

Last Altered: Wednesday, April 07, 2021 11:09:15 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:09:30 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

| L# | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R. | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|----------|------|------|-------|
| 32 | d12-Benzo(a)pyrene | 3.51e6 | 2.13e6 | 1.24 | 1.000 | 28.76 | 28.81 | 0.975 | 0.977 | NO | 266 | 66.5 | 0.130 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 2.65e6 | 2.13e6 | 1.02 | 1.000 | 36.78 | 36.51 | 1.247 | 1.238 | NO | 244 | 61.1 | 0.198 |
| 34 | d12-Benzo(g,h,i)perylene | 2.57e6 | 2.13e6 | 1.00 | 1.000 | 40.18 | 39.74 | 1.362 | 1.348 | YES | 240 | 59.9 | 0.201 |
| 35 | d14-Dibenz(a,h)anthracene | 2.30e6 | 2.13e6 | 0.765 | 1.000 | 36.55 | 36.30 | 1.239 | 1.231 | NO | 282 | 70.4 | 0.170 |
| 36 | d10-Anthracene | 6.62e5 | 2.13e6 | 0.989 | 1.000 | 18.49 | 18.35 | 1.541 | 1.529 | NO | 62.8 | 31.4 | 138 |
| 37 | d14-Terphenyl | 4.45e6 | 2.48e6 | 0.576 | 1.000 | 20.69 | 20.70 | 1.018 | 1.019 | NO | 623 | 125 | 0.302 |
| 38 | d12-Benzofluoranthene | 4.31e6 | 4.29e6 | 0.738 | 1.000 | 28.53 | 28.57 | 1.060 | 1.062 | NO | 544 | 109 | 0.202 |
| 39 | d10-1-Methylnaphthalene | 1.21e6 | 1.21e6 | 1.00 | 1.000 | 11.93 | 12.00 | 1.000 | 1.000 | NO | 200 | 100 | 52.1 |
| 40 | d10-Pyrene | 2.48e6 | 2.48e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 1.69 |
| 41 | d12-Perylene | 2.13e6 | 2.13e6 | 1.00 | 1.000 | 29.59 | 29.49 | 1.000 | 1.000 | NO | 200 | 100 | 0.161 |

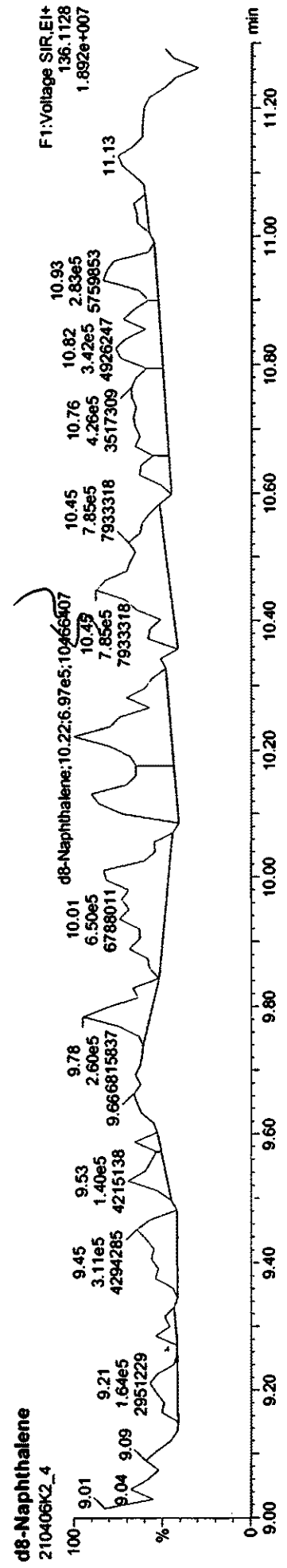
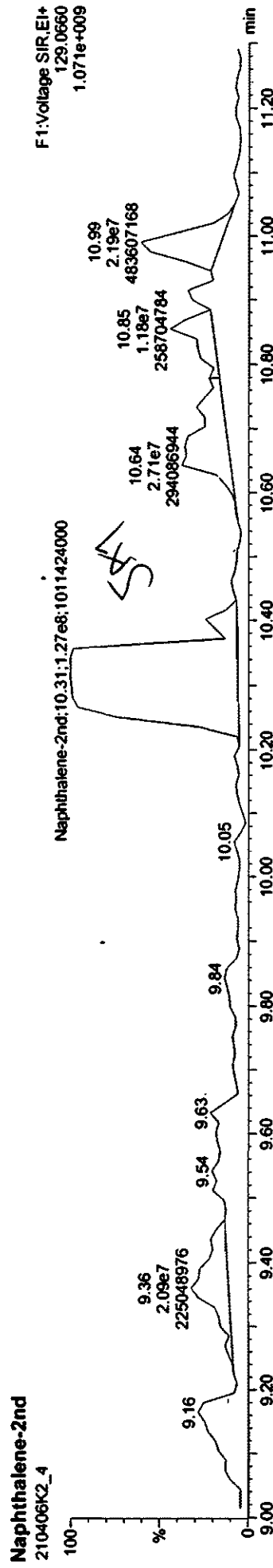
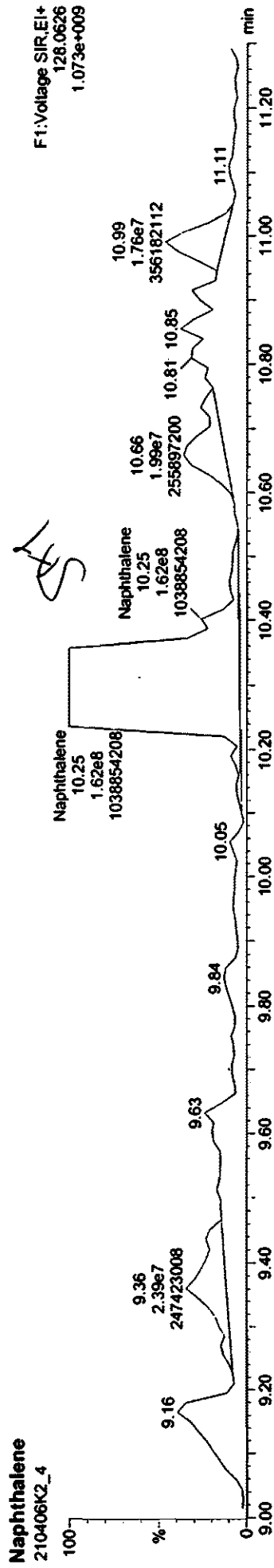
Dataset: U:\VG11.PRO\Results\210406K2\210406K2-4.qld

Last Altered: Wednesday, April 07, 2021 10:18:23 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22

Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1

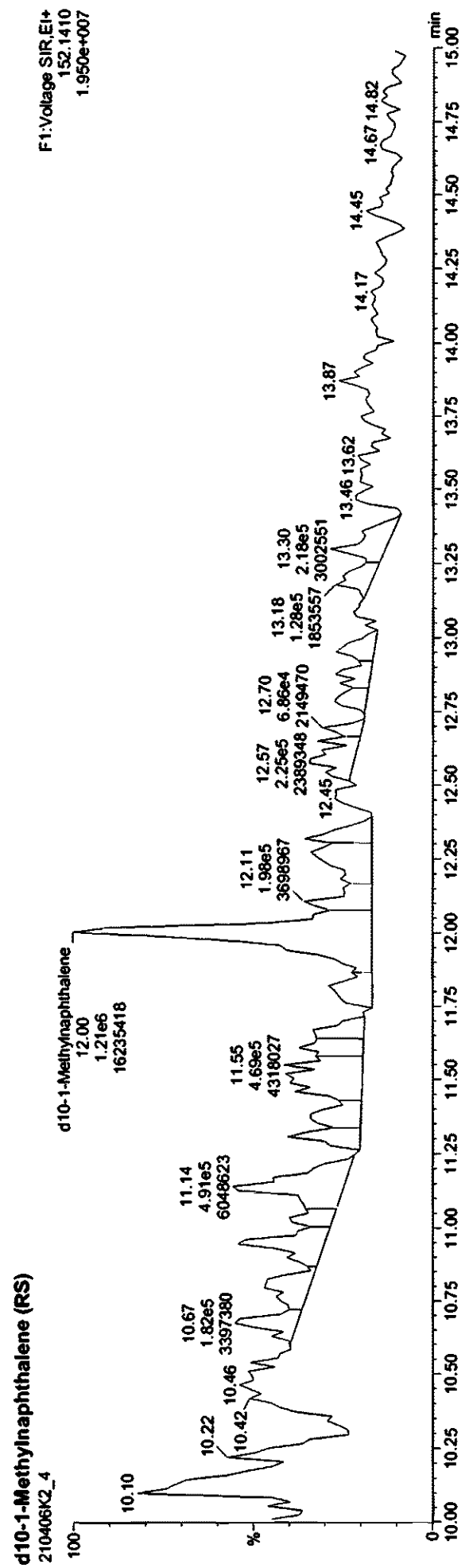
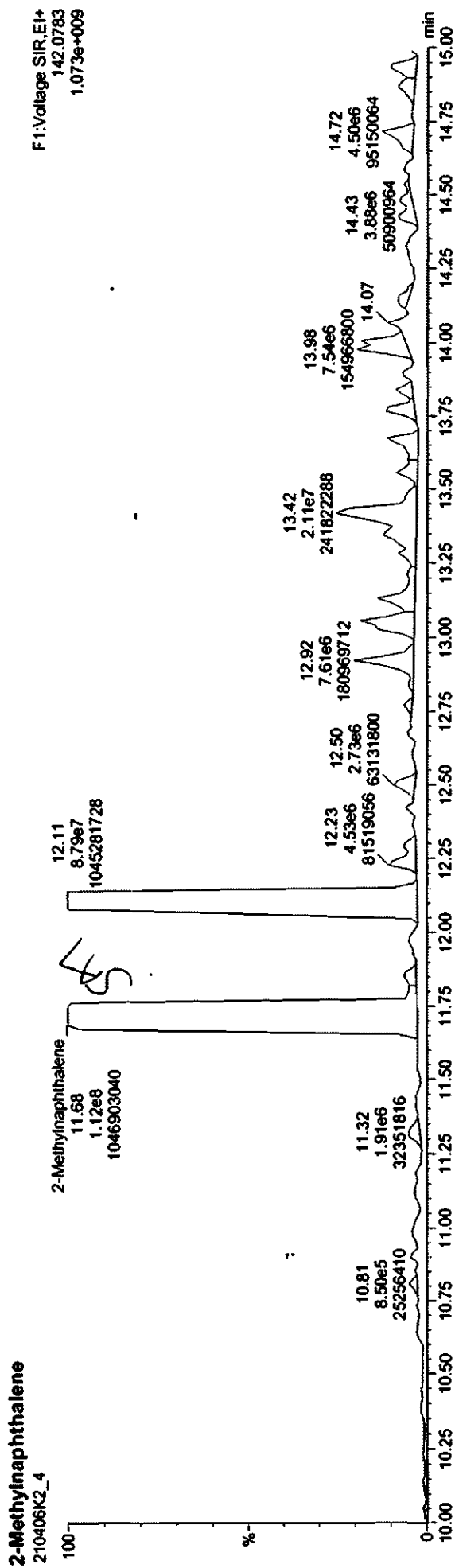


Quantify Sample Report
Visia Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-4.qld

Last Altered: Wednesday, April 07, 2021 10:18:23 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

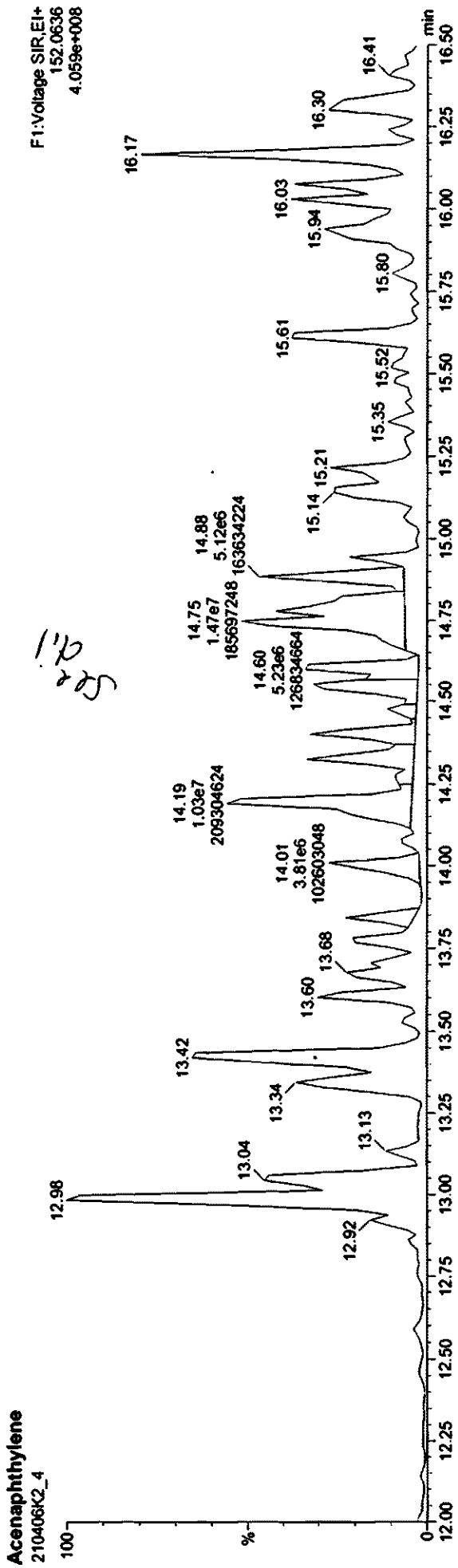


Quantify Sample Report
Vista Analytical Laboratory

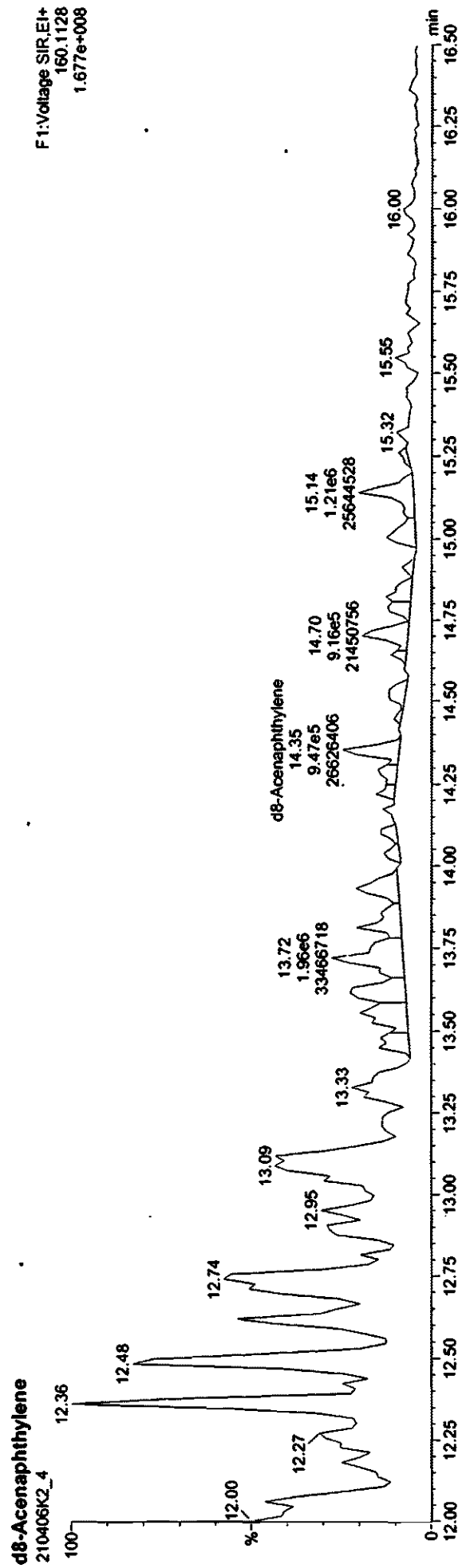
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Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1



See also

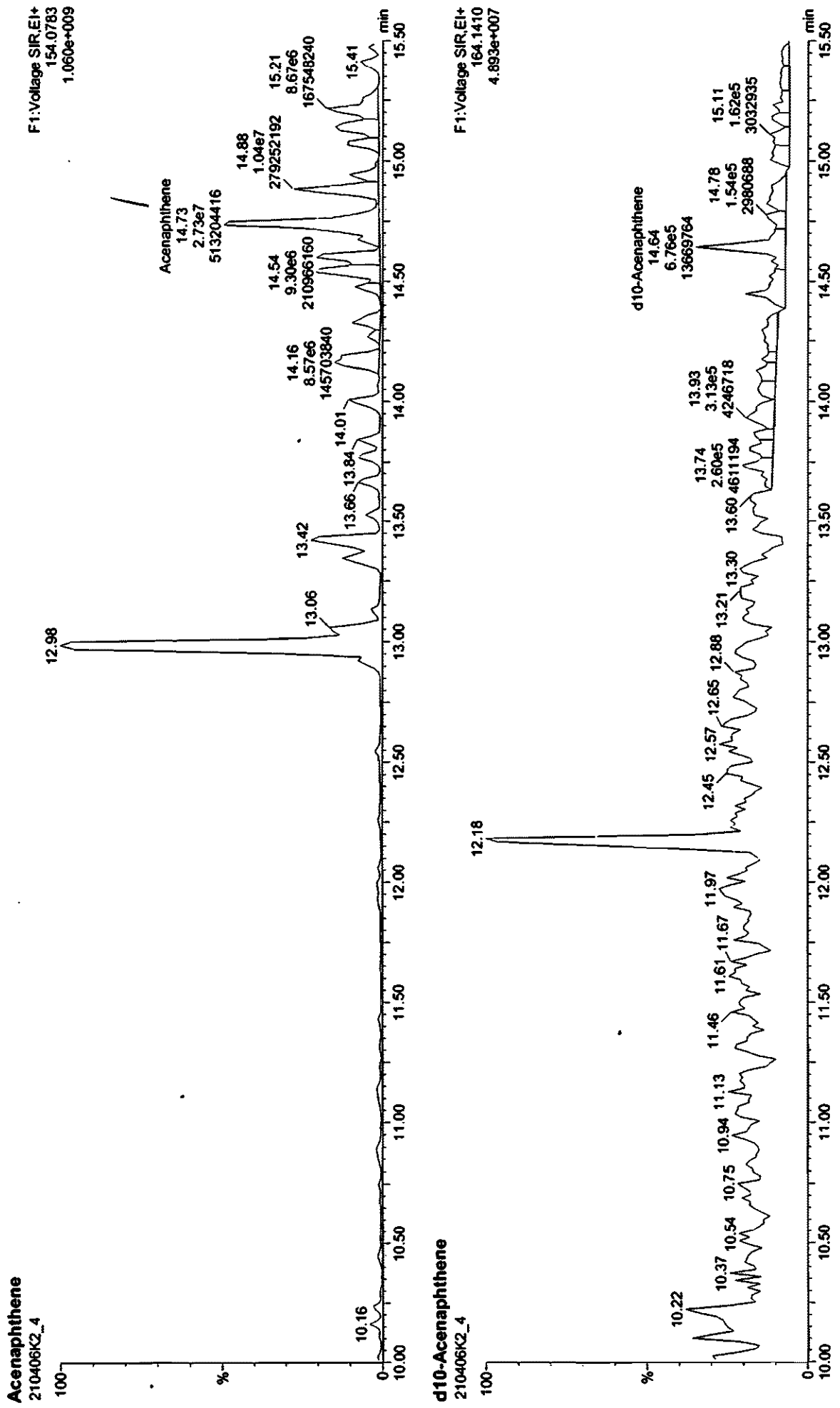


Quantify Sample Report
Vista Analytical Laboratory

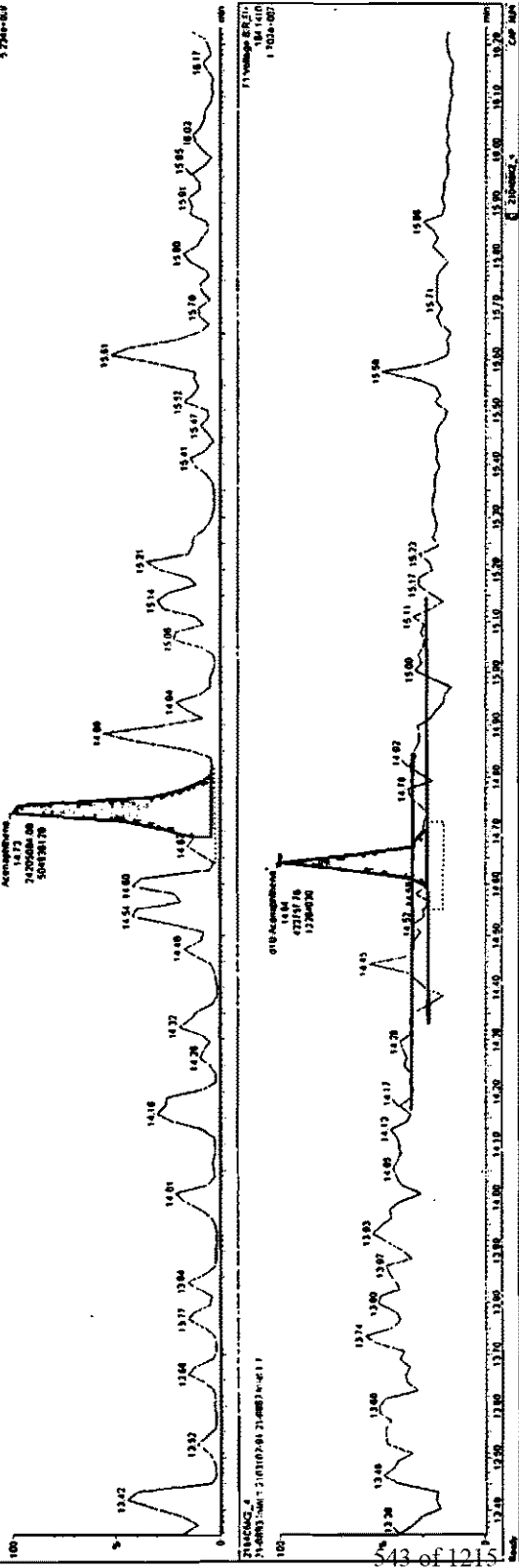
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Last Altered: Wednesday, April 07, 2021 10:18:23 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1



| Peak | Retention Time | Area | Height | Width | Skewness | Symmetry | Resolution | SN | Conc. | Unit |
|------|----------------|-------|--------|-------|----------|----------|------------|-----|-------|------|
| 1 | 13.22 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 2 | 13.50 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 3 | 13.74 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 4 | 13.90 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 5 | 14.18 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 6 | 14.45 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 7 | 14.80 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 8 | 15.00 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 9 | 15.11 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 10 | 15.17 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 11 | 15.23 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 12 | 15.31 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 13 | 15.41 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 14 | 15.47 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 15 | 15.57 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 16 | 15.81 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 17 | 15.96 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 18 | 16.03 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |
| 19 | 16.17 | 10000 | 1000 | 0.05 | 0.00 | 0.00 | 1.00 | 100 | 10.00 | g/L |



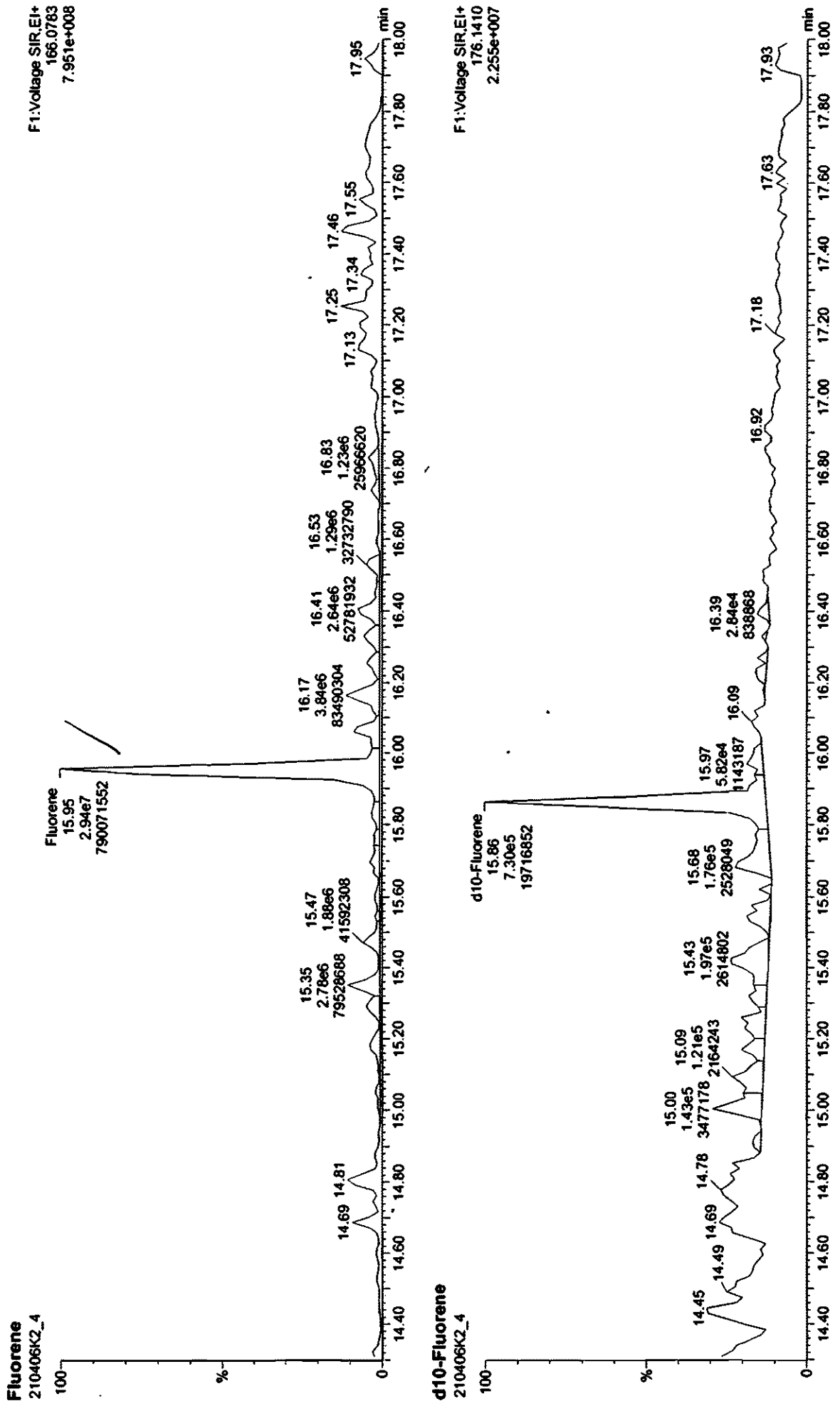
Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-4.qld

Last Altered: Wednesday, April 07, 2021 10:18:23 AM Pacific Daylight Time

Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1

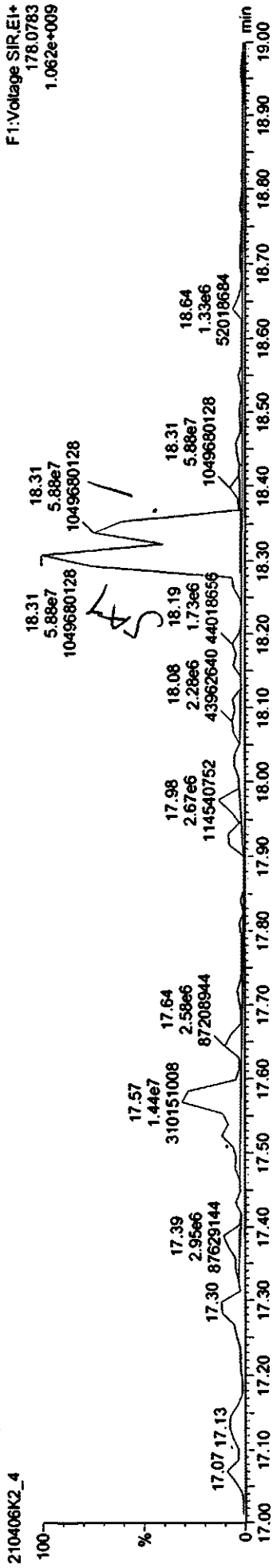


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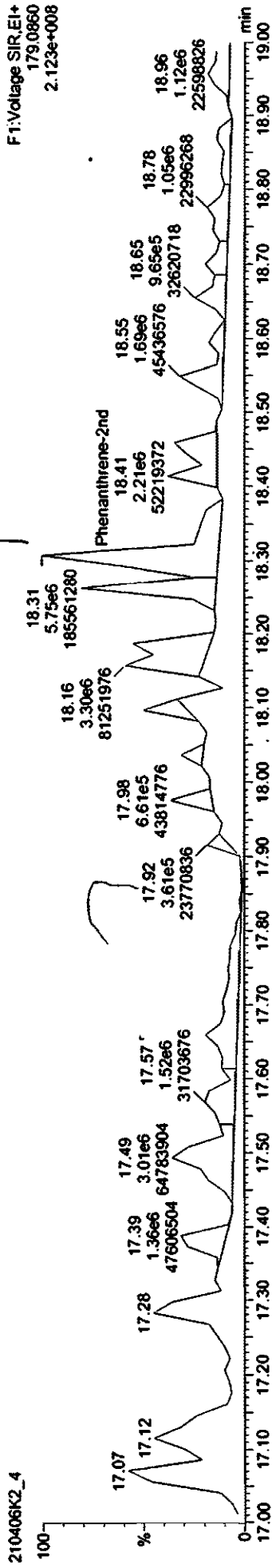
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Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1

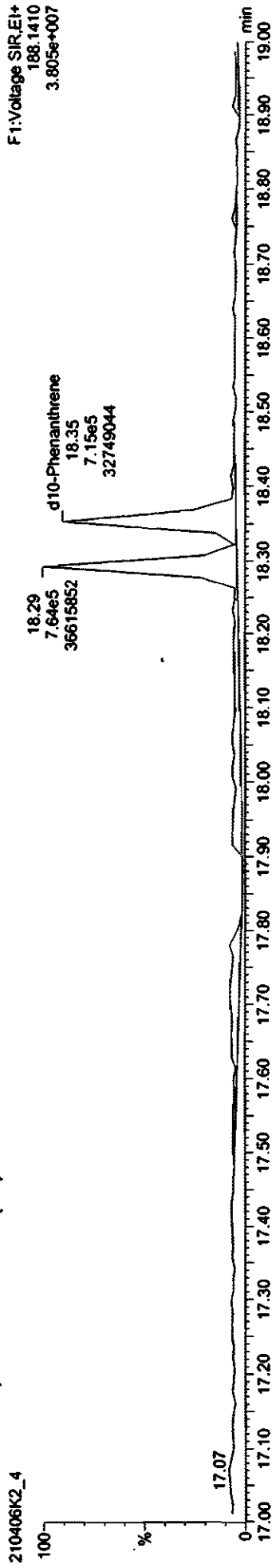
Phenanthrene: Anthracene



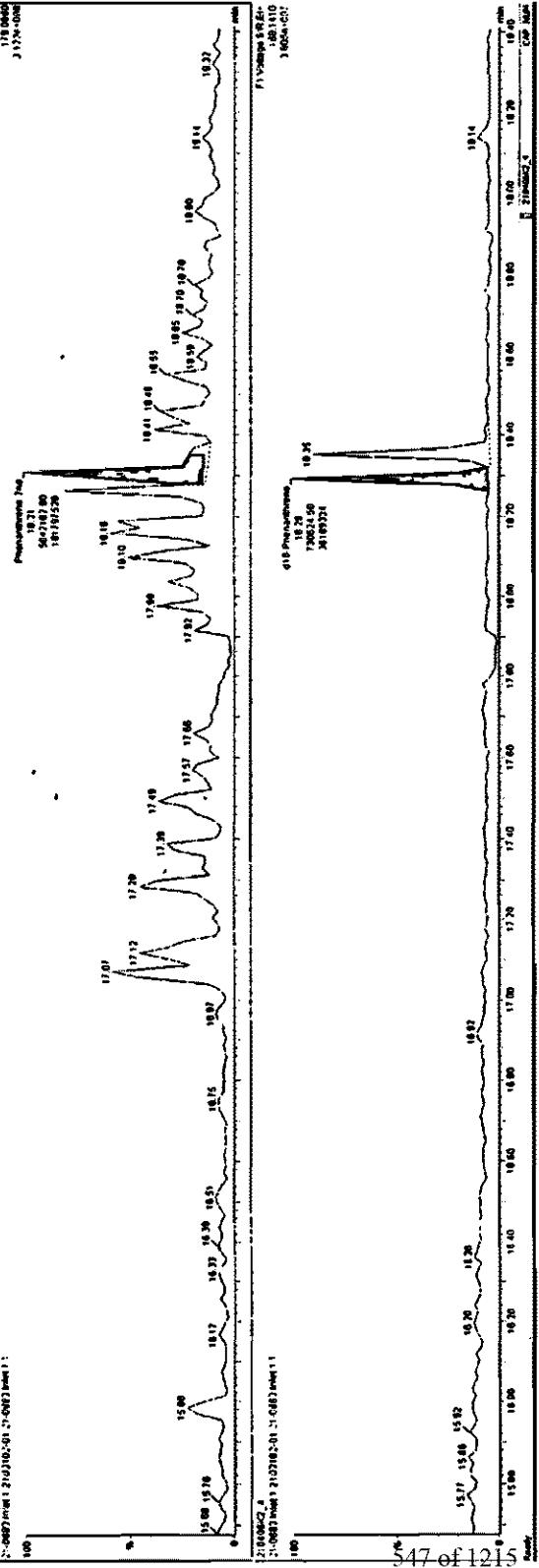
Phenanthrene-2nd



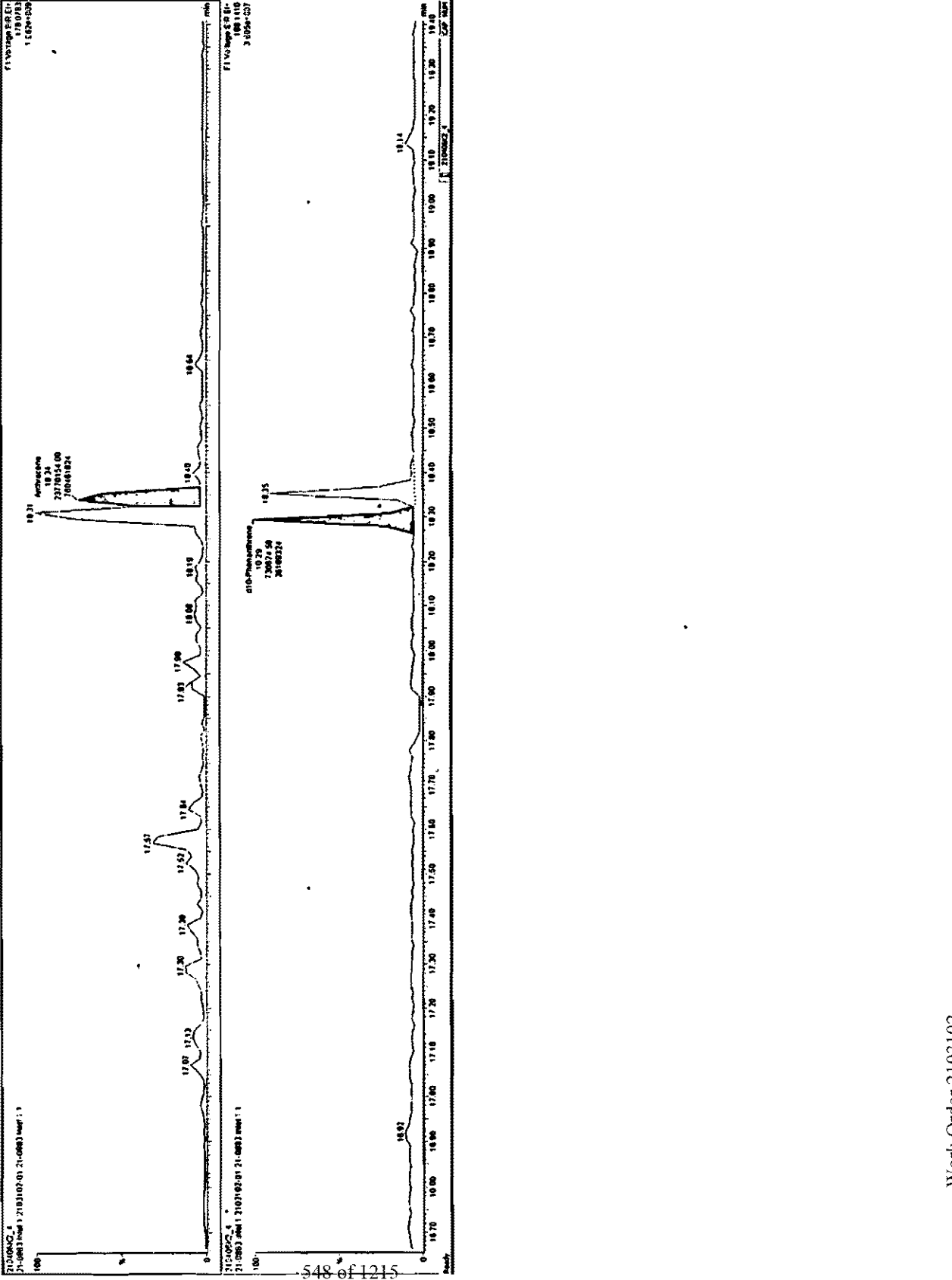
d10-Phenanthrene; d10-Anthracene (AS)



| Peak | Area | Height | Width | Retention | Area% | Height% | Width% | Retention | Area% | Height% | Width% |
|------|-------|--------|-------|-----------|-------|---------|--------|-----------|-------|---------|--------|
| 1 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 2 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 3 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 4 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 5 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 6 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 7 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 8 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 9 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 10 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 11 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 12 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 13 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |
| 14 | 1.214 | 0.1701 | 1.138 | 15.00 | 0.002 | 0.002 | 0.002 | 15.00 | 0.002 | 0.002 | 0.002 |



| Retention Time (min) | Peak Label | Area | Height | Width | FWHM | Height/Width | Area/Width | Area/Height | FWHM/Width | Area/Height/Width |
|----------------------|-------------|-------------|--------|-------|-------|--------------|-------------|-------------|------------|-------------------|
| 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 1.00 | 10.00 | 1.00 | 1.00 | 1.00 |
| 11.45 | 11.45 | 11.45 | 11.45 | 11.45 | 11.45 | 1.00 | 11.45 | 1.00 | 1.00 | 1.00 |
| 12.52 | 12.52 | 12.52 | 12.52 | 12.52 | 12.52 | 1.00 | 12.52 | 1.00 | 1.00 | 1.00 |
| 13.52 | 13.52 | 13.52 | 13.52 | 13.52 | 13.52 | 1.00 | 13.52 | 1.00 | 1.00 | 1.00 |
| 17.84 | 17.84 | 17.84 | 17.84 | 17.84 | 17.84 | 1.00 | 17.84 | 1.00 | 1.00 | 1.00 |
| 18.08 | 18.08 | 18.08 | 18.08 | 18.08 | 18.08 | 1.00 | 18.08 | 1.00 | 1.00 | 1.00 |
| 18.18 | 18.18 | 18.18 | 18.18 | 18.18 | 18.18 | 1.00 | 18.18 | 1.00 | 1.00 | 1.00 |
| 18.31 | Amphetamine | 23770154.00 | 18.31 | 18.31 | 18.31 | 1.00 | 23770154.00 | 1.00 | 1.00 | 1.00 |
| 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 1.00 | 18.35 | 1.00 | 1.00 | 1.00 |
| 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 1.00 | 18.35 | 1.00 | 1.00 | 1.00 |
| 18.49 | 18.49 | 18.49 | 18.49 | 18.49 | 18.49 | 1.00 | 18.49 | 1.00 | 1.00 | 1.00 |
| 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 1.00 | 18.54 | 1.00 | 1.00 | 1.00 |
| 18.62 | 18.62 | 18.62 | 18.62 | 18.62 | 18.62 | 1.00 | 18.62 | 1.00 | 1.00 | 1.00 |
| 18.64 | 18.64 | 18.64 | 18.64 | 18.64 | 18.64 | 1.00 | 18.64 | 1.00 | 1.00 | 1.00 |
| 18.68 | 18.68 | 18.68 | 18.68 | 18.68 | 18.68 | 1.00 | 18.68 | 1.00 | 1.00 | 1.00 |
| 18.78 | 18.78 | 18.78 | 18.78 | 18.78 | 18.78 | 1.00 | 18.78 | 1.00 | 1.00 | 1.00 |
| 18.83 | 18.83 | 18.83 | 18.83 | 18.83 | 18.83 | 1.00 | 18.83 | 1.00 | 1.00 | 1.00 |
| 18.92 | 18.92 | 18.92 | 18.92 | 18.92 | 18.92 | 1.00 | 18.92 | 1.00 | 1.00 | 1.00 |
| 18.97 | 18.97 | 18.97 | 18.97 | 18.97 | 18.97 | 1.00 | 18.97 | 1.00 | 1.00 | 1.00 |
| 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 1.00 | 19.00 | 1.00 | 1.00 | 1.00 |
| 19.04 | 19.04 | 19.04 | 19.04 | 19.04 | 19.04 | 1.00 | 19.04 | 1.00 | 1.00 | 1.00 |
| 19.10 | 19.10 | 19.10 | 19.10 | 19.10 | 19.10 | 1.00 | 19.10 | 1.00 | 1.00 | 1.00 |
| 19.20 | 19.20 | 19.20 | 19.20 | 19.20 | 19.20 | 1.00 | 19.20 | 1.00 | 1.00 | 1.00 |
| 19.26 | 19.26 | 19.26 | 19.26 | 19.26 | 19.26 | 1.00 | 19.26 | 1.00 | 1.00 | 1.00 |
| 19.30 | 19.30 | 19.30 | 19.30 | 19.30 | 19.30 | 1.00 | 19.30 | 1.00 | 1.00 | 1.00 |
| 19.34 | 19.34 | 19.34 | 19.34 | 19.34 | 19.34 | 1.00 | 19.34 | 1.00 | 1.00 | 1.00 |
| 19.40 | 19.40 | 19.40 | 19.40 | 19.40 | 19.40 | 1.00 | 19.40 | 1.00 | 1.00 | 1.00 |
| 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 1.00 | 19.50 | 1.00 | 1.00 | 1.00 |
| 19.60 | 19.60 | 19.60 | 19.60 | 19.60 | 19.60 | 1.00 | 19.60 | 1.00 | 1.00 | 1.00 |
| 19.70 | 19.70 | 19.70 | 19.70 | 19.70 | 19.70 | 1.00 | 19.70 | 1.00 | 1.00 | 1.00 |
| 19.78 | 19.78 | 19.78 | 19.78 | 19.78 | 19.78 | 1.00 | 19.78 | 1.00 | 1.00 | 1.00 |
| 19.80 | 19.80 | 19.80 | 19.80 | 19.80 | 19.80 | 1.00 | 19.80 | 1.00 | 1.00 | 1.00 |
| 19.84 | 19.84 | 19.84 | 19.84 | 19.84 | 19.84 | 1.00 | 19.84 | 1.00 | 1.00 | 1.00 |
| 19.90 | 19.90 | 19.90 | 19.90 | 19.90 | 19.90 | 1.00 | 19.90 | 1.00 | 1.00 | 1.00 |
| 19.97 | 19.97 | 19.97 | 19.97 | 19.97 | 19.97 | 1.00 | 19.97 | 1.00 | 1.00 | 1.00 |
| 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 1.00 | 20.00 | 1.00 | 1.00 | 1.00 |
| 20.08 | 20.08 | 20.08 | 20.08 | 20.08 | 20.08 | 1.00 | 20.08 | 1.00 | 1.00 | 1.00 |
| 20.10 | 20.10 | 20.10 | 20.10 | 20.10 | 20.10 | 1.00 | 20.10 | 1.00 | 1.00 | 1.00 |
| 20.14 | 20.14 | 20.14 | 20.14 | 20.14 | 20.14 | 1.00 | 20.14 | 1.00 | 1.00 | 1.00 |
| 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 1.00 | 20.20 | 1.00 | 1.00 | 1.00 |
| 20.26 | 20.26 | 20.26 | 20.26 | 20.26 | 20.26 | 1.00 | 20.26 | 1.00 | 1.00 | 1.00 |
| 20.30 | 20.30 | 20.30 | 20.30 | 20.30 | 20.30 | 1.00 | 20.30 | 1.00 | 1.00 | 1.00 |
| 20.34 | 20.34 | 20.34 | 20.34 | 20.34 | 20.34 | 1.00 | 20.34 | 1.00 | 1.00 | 1.00 |
| 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 1.00 | 20.40 | 1.00 | 1.00 | 1.00 |
| 20.48 | 20.48 | 20.48 | 20.48 | 20.48 | 20.48 | 1.00 | 20.48 | 1.00 | 1.00 | 1.00 |
| 20.54 | 20.54 | 20.54 | 20.54 | 20.54 | 20.54 | 1.00 | 20.54 | 1.00 | 1.00 | 1.00 |
| 20.60 | 20.60 | 20.60 | 20.60 | 20.60 | 20.60 | 1.00 | 20.60 | 1.00 | 1.00 | 1.00 |
| 20.68 | 20.68 | 20.68 | 20.68 | 20.68 | 20.68 | 1.00 | 20.68 | 1.00 | 1.00 | 1.00 |
| 20.78 | 20.78 | 20.78 | 20.78 | 20.78 | 20.78 | 1.00 | 20.78 | 1.00 | 1.00 | 1.00 |
| 20.83 | 20.83 | 20.83 | 20.83 | 20.83 | 20.83 | 1.00 | 20.83 | 1.00 | 1.00 | 1.00 |
| 20.88 | 20.88 | 20.88 | 20.88 | 20.88 | 20.88 | 1.00 | 20.88 | 1.00 | 1.00 | 1.00 |
| 20.97 | 20.97 | 20.97 | 20.97 | 20.97 | 20.97 | 1.00 | 20.97 | 1.00 | 1.00 | 1.00 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-4.qld

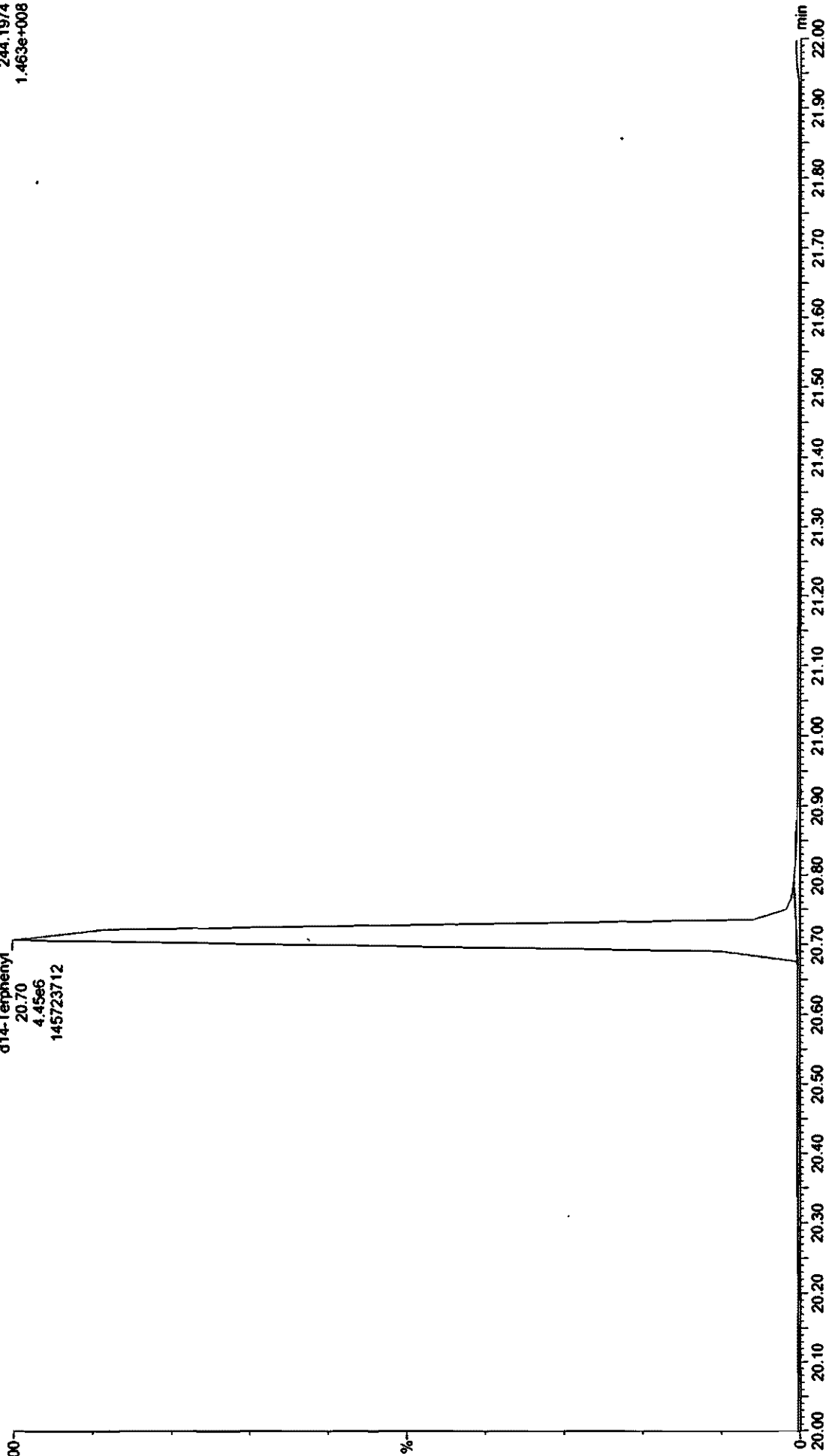
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Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

d14-Terphenyl (PS)
210406K2_4

F2:Voltage SIR.EI+
244.1974
1.463e+008

d14-Terphenyl
20.70
4.45e6
145723712

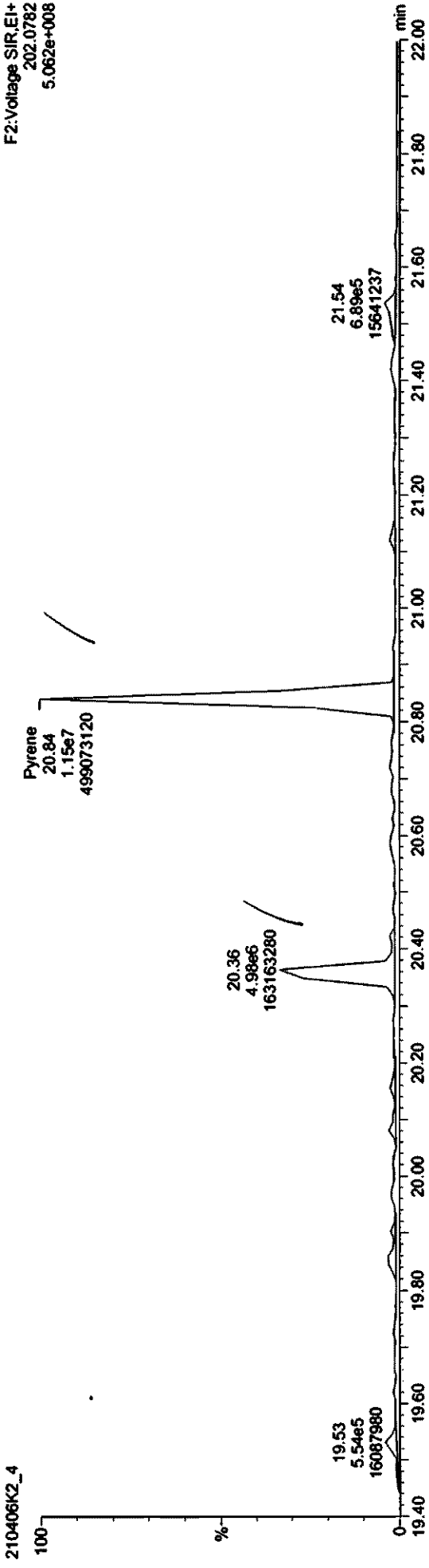


Dataset: U:\WG11.PRO\Results\210406K2\210406K2-4.qld

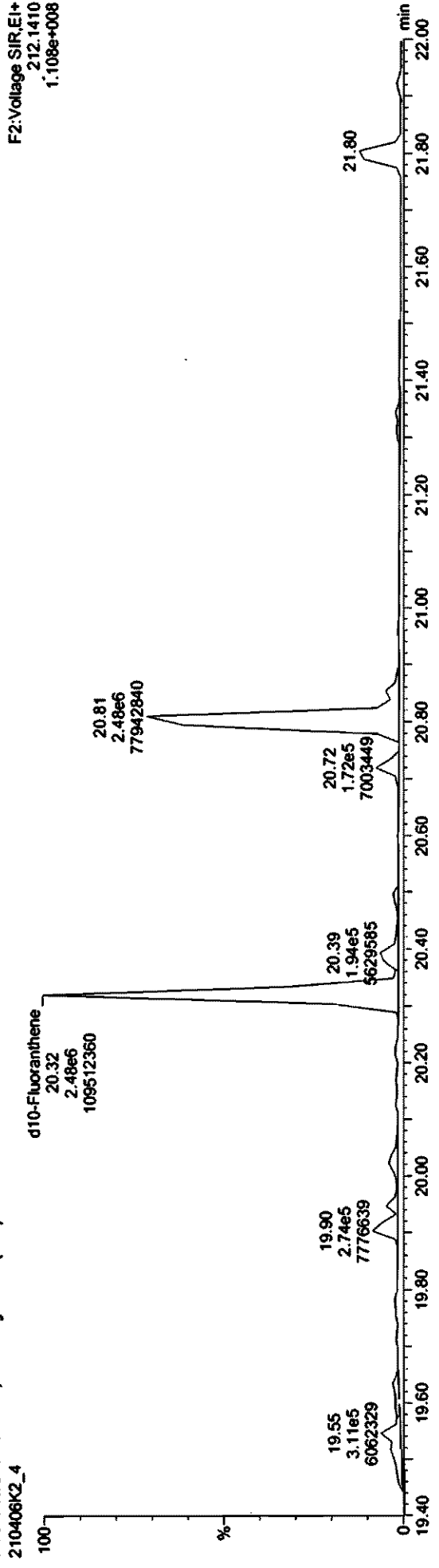
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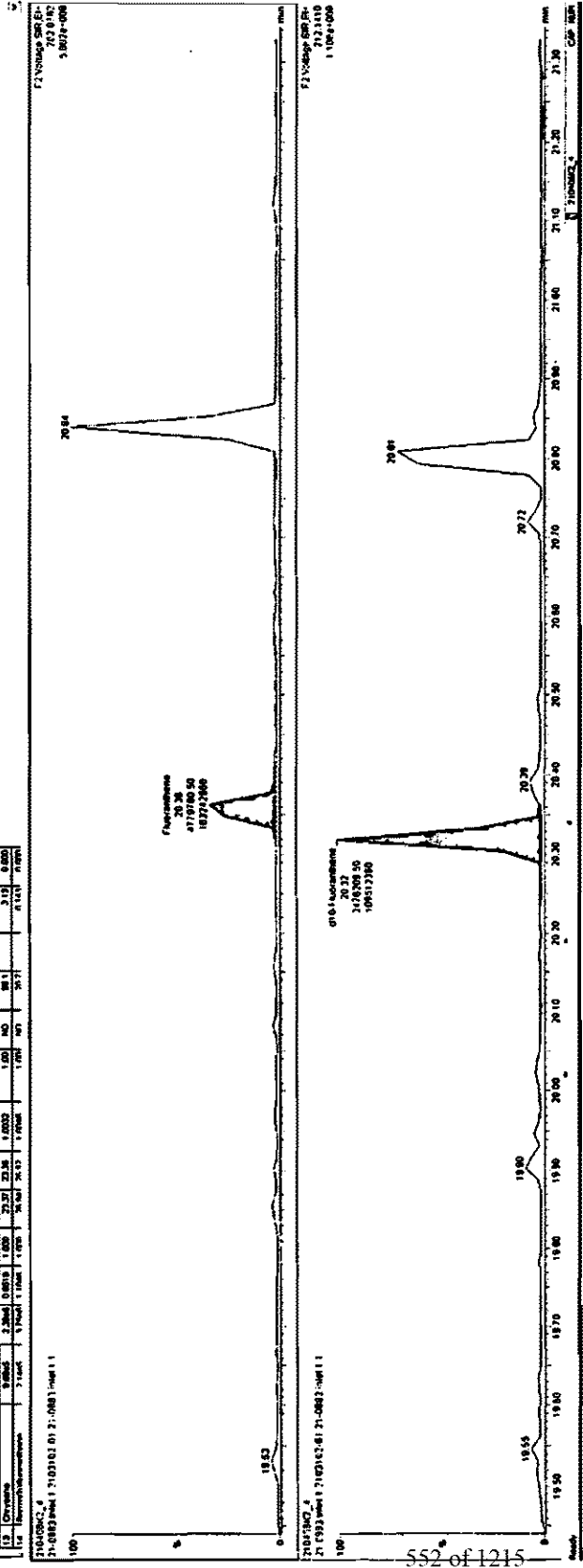
Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1

Fluoranthene; Pyrene



d10-Fluoranthene; d10-Pyrene (RS)





| Peak | RT | Area | Height | Width | Skew | Asym | Res | SN | Int | Area% | Height% | Width% | Skew% | Asym% | Res% | SN% | Int% |
|------|-------|------|--------|-------|------|------|------|------|------|-------|---------|--------|-------|-------|------|------|------|
| 1 | 19.55 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 20.38 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 20.72 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 12 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 13 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 14 | 20.99 | 1120 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

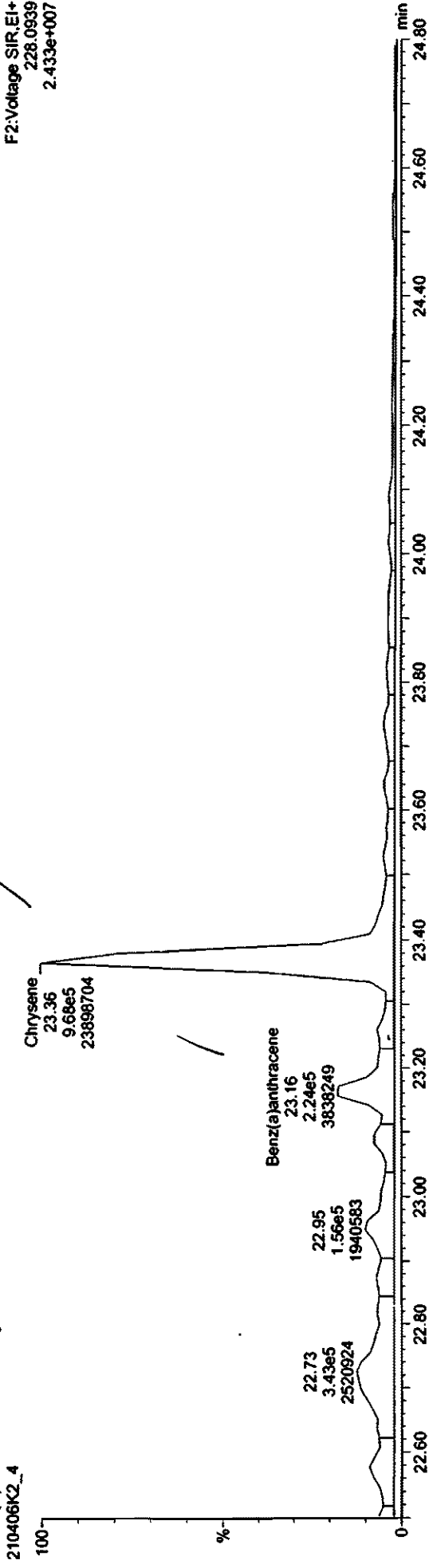
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Last Altered: Wednesday, April 07, 2021 10:18:23 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1

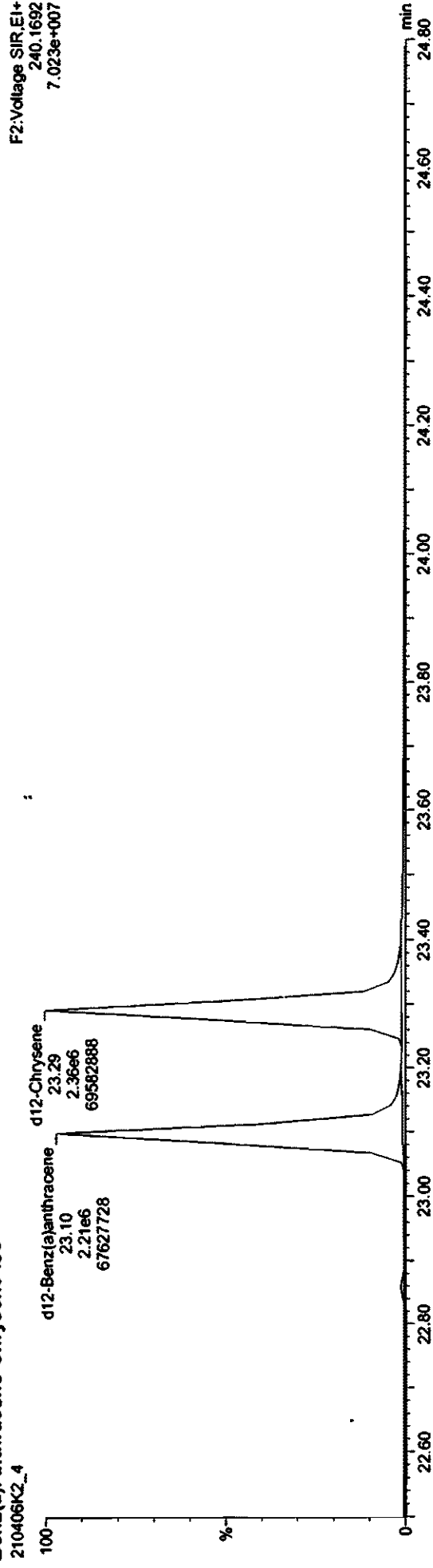
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
2.433e+007

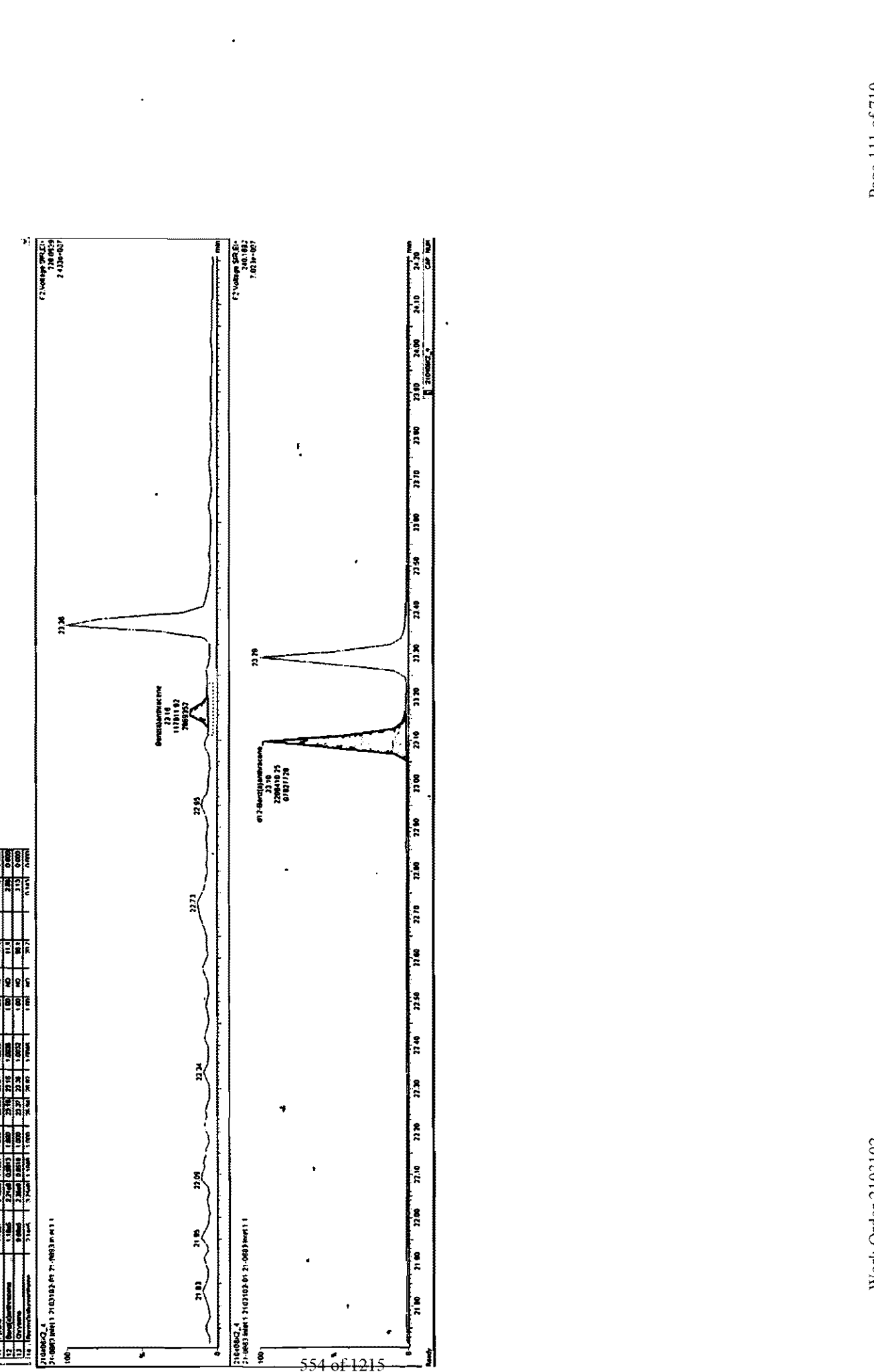


Benz(a)Anthracene-Chrysene-Iso

F2:Voltage SIR,EI+
240.1692
7.023e+007

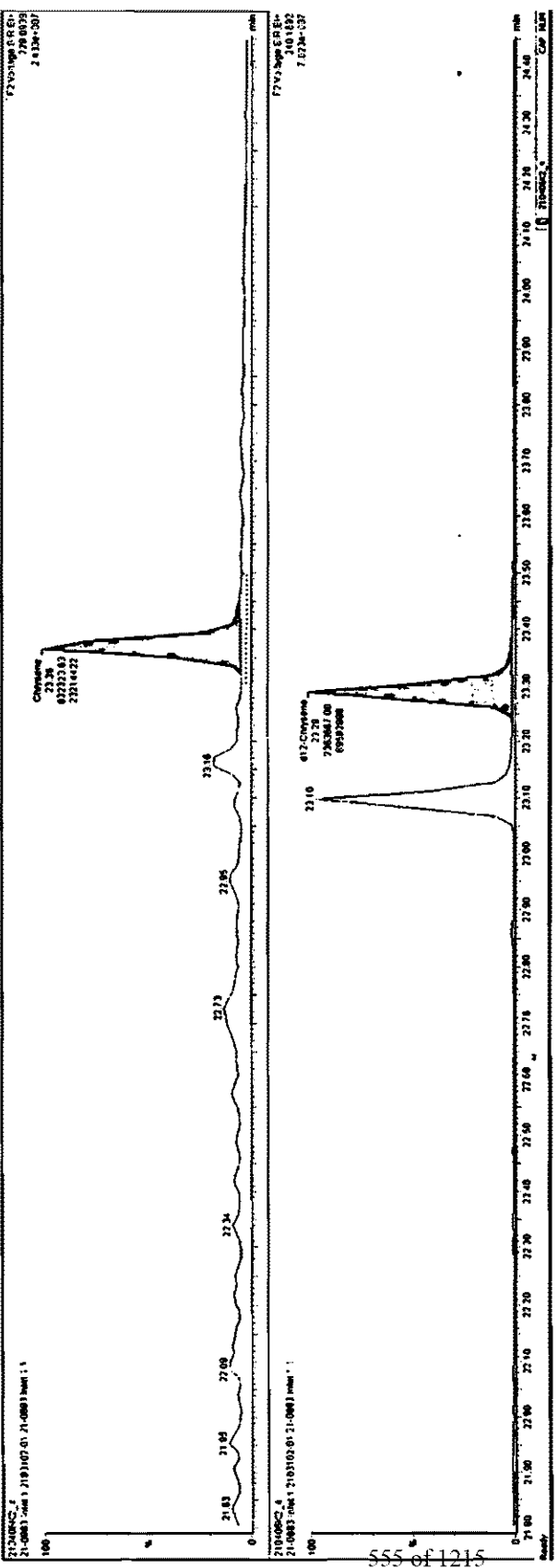


| Peak | RT | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height |
|------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 21.83 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 |
| 2 | 22.35 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 |
| 3 | 22.73 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 |
| 4 | 23.26 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 |
| 5 | 23.78 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 | 11811.63 |



21-0883 (21-03105-01) 21-0883 (21-03105-01) 21-0883 (21-03105-01) 21-0883 (21-03105-01)

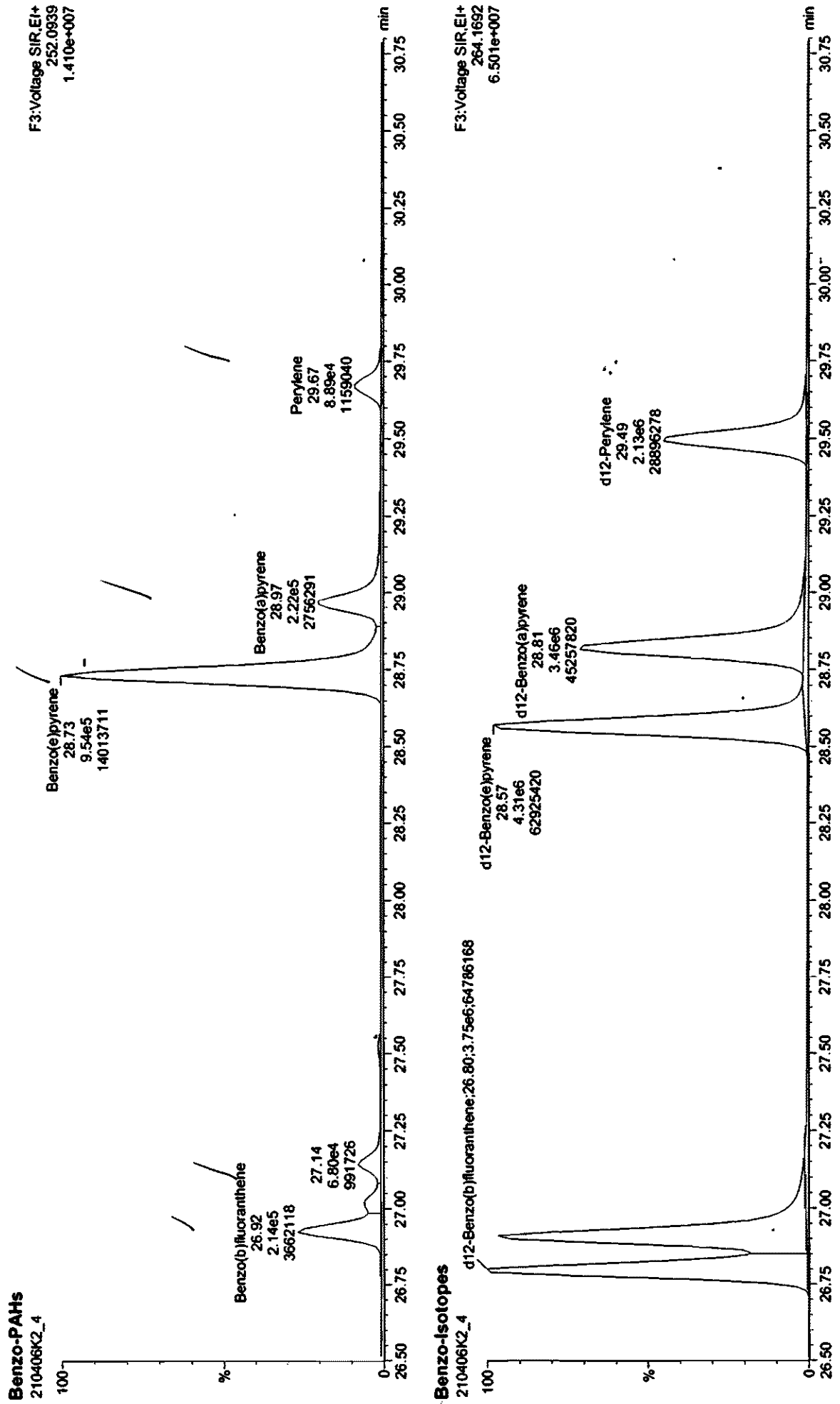
| Peak | RT | Area | Height | Width | Height | Area | Height | Area | Height | Area |
|------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 1 | 31.83 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 2 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 3 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 4 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 5 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 6 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 7 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 8 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 9 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 10 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 11 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 12 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 13 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 14 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 15 | 31.86 | 87175 | 11199 | 1009 | 18.26 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |



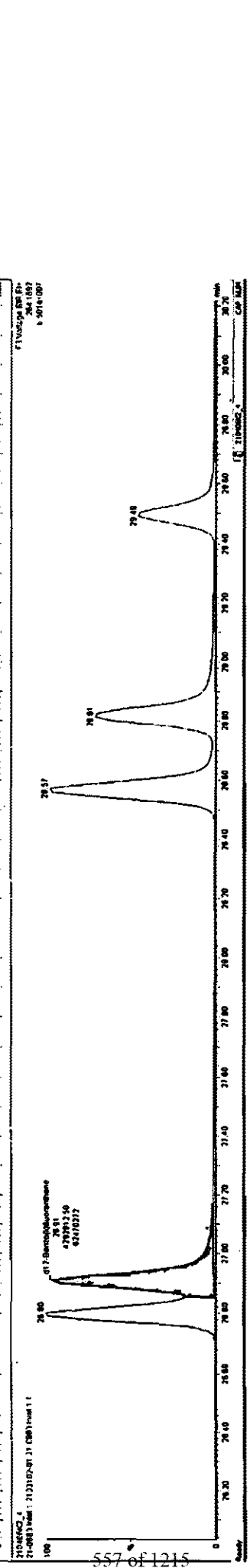
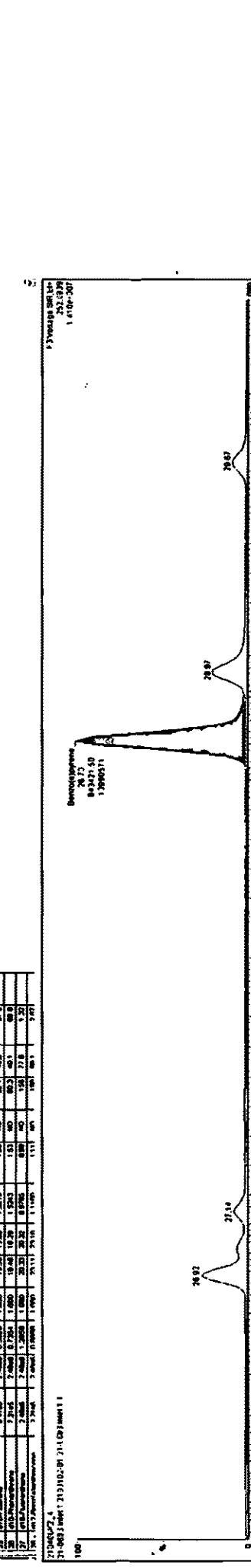
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Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1



| Peak | RT | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|------|-------|---------|--------|-------|-------|---------|--------|---------|--------|-------|-------|---------|--------|
| 15 | 26.87 | 1000000 | 10000 | 1000 | 100 | 100 | 100 | 1000000 | 10000 | 1000 | 100 | 100 | 100 |
| 16 | 27.14 | 10000 | 1000 | 1000 | 1 | 1 | 1 | 10000 | 1000 | 1000 | 1 | 1 | 1 |
| 17 | 27.80 | 1000000 | 10000 | 1000 | 100 | 100 | 100 | 1000000 | 10000 | 1000 | 100 | 100 | 100 |
| 18 | 28.01 | 1000000 | 10000 | 1000 | 100 | 100 | 100 | 1000000 | 10000 | 1000 | 100 | 100 | 100 |
| 19 | 28.41 | 1000000 | 10000 | 1000 | 100 | 100 | 100 | 1000000 | 10000 | 1000 | 100 | 100 | 100 |
| 20 | 28.81 | 1000000 | 10000 | 1000 | 100 | 100 | 100 | 1000000 | 10000 | 1000 | 100 | 100 | 100 |
| 21 | 29.41 | 1000000 | 10000 | 1000 | 100 | 100 | 100 | 1000000 | 10000 | 1000 | 100 | 100 | 100 |



Quantify Sample Report
Vista Analytical Laboratory

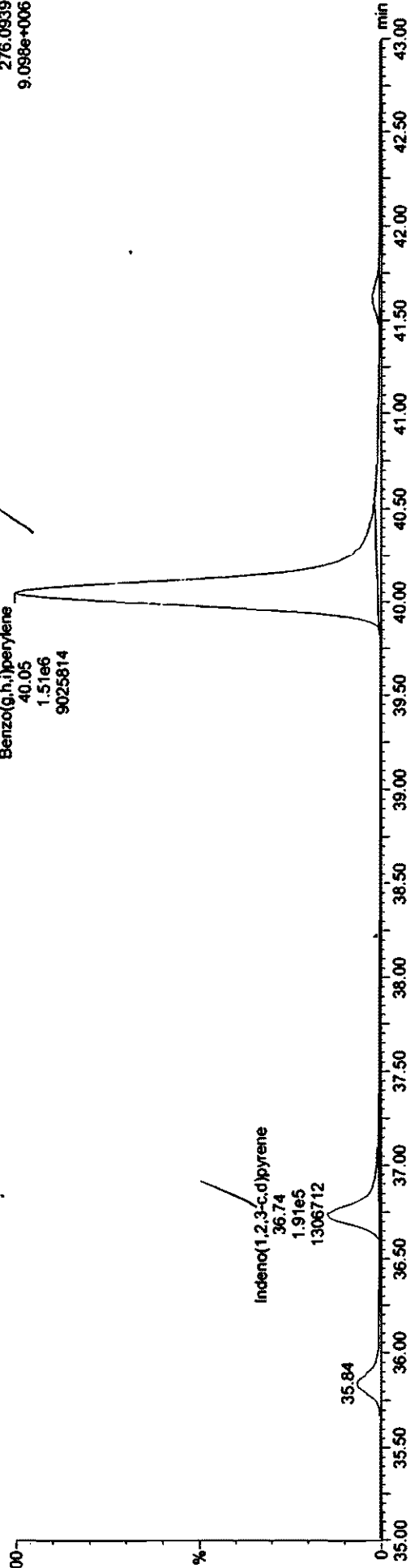
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Last Altered: Wednesday, April 07, 2021 10:18:23 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1, Description: 21-0883 Inlet 1

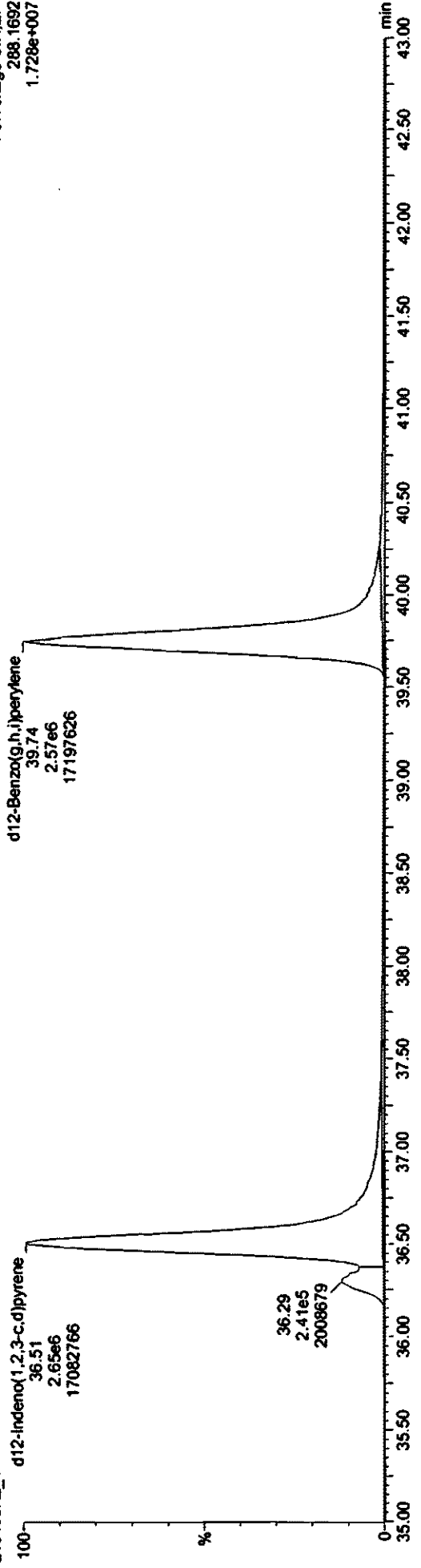
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
9.098e+006



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

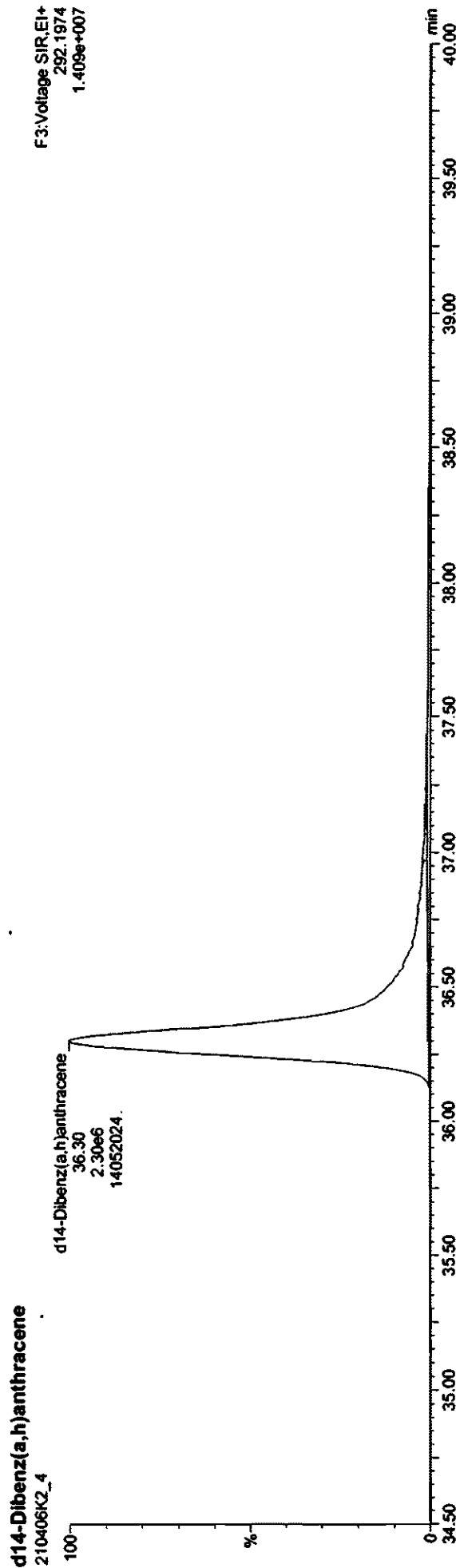
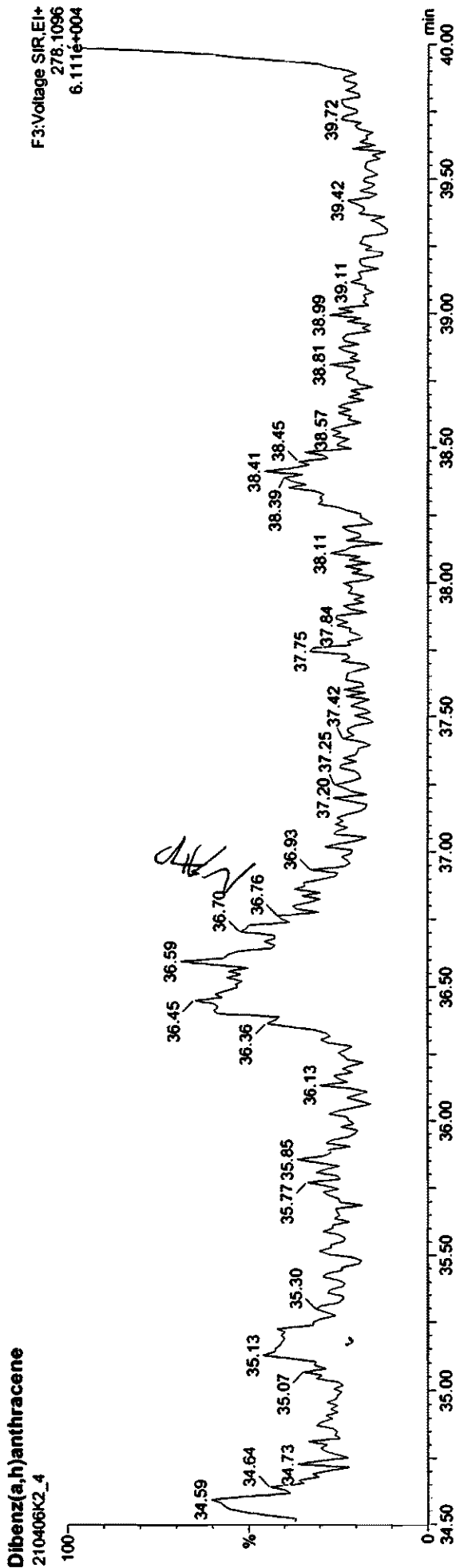
F3:Voltage SIR,EI+
288.1692
1.728e+007



Dataset: U:\VG11.PRO\Results\210406K2\210406K2-4.qld

Last Altered: Wednesday, April 07, 2021 10:18:23 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:18:52 AM Pacific Daylight Time

Name: 210406K2_4, Date: 07-Apr-2021, Time: 04:27:58, ID: 2103102-01 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-5.qld

Last Altered: Wednesday, April 07, 2021 11:37:30 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:38:46 AM Pacific Daylight Time

pk 4.7.201 *CA 04/07/2021*

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

see 500x dilution

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1

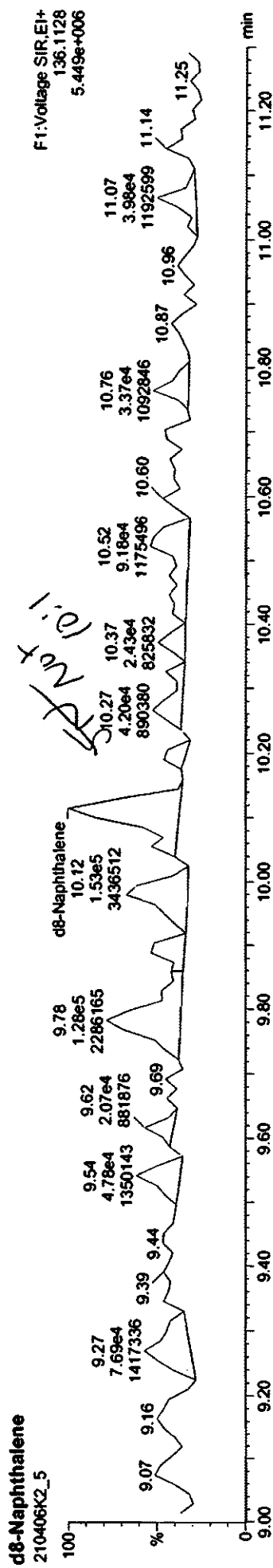
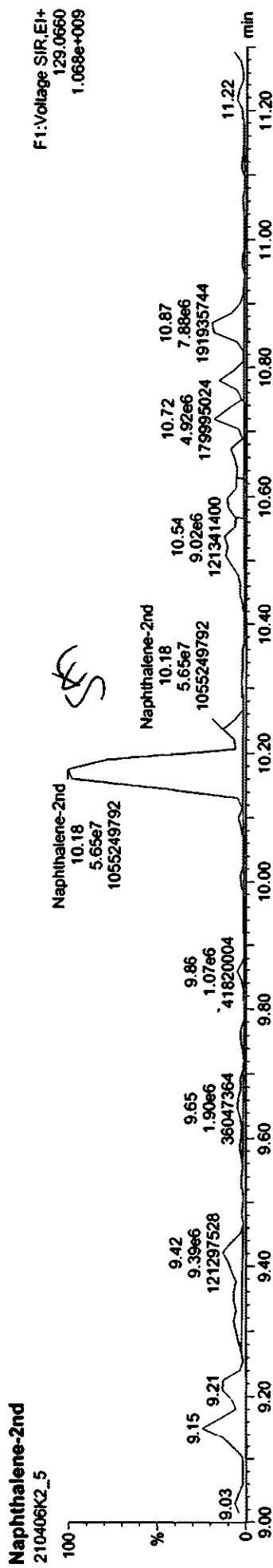
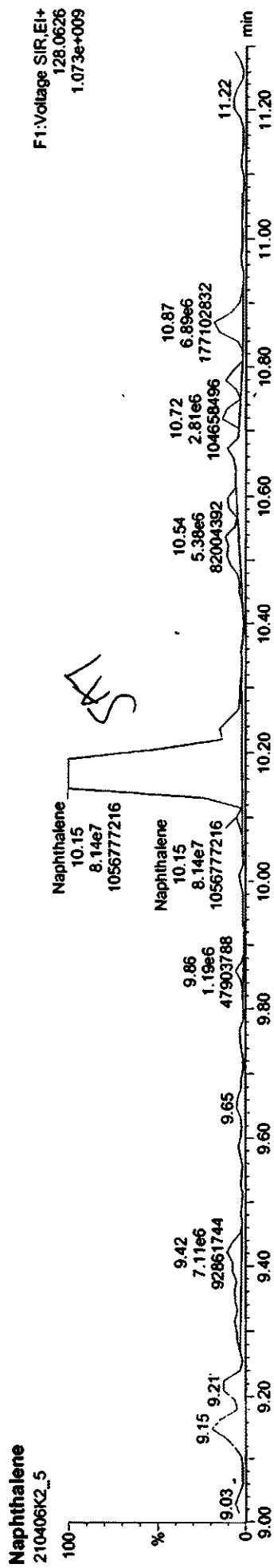
| # | Name | Resp | IS Resp | RRF | wVol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|----|-------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|------|
| 4 | Acenaphthylene | 7.89e5 | 1.46e5 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 965 | X | 1800 |
| 5 | Acenaphthene | 3.40e6 | 7.14e4 | 1.10 | 1.000 | 14.68 | 14.70 | 1.006 | 1.007 | NO | 8640 | | 606 |
| 6 | Fluorene | 2.83e6 | 6.54e4 | 1.15 | 1.000 | 15.92 | 15.92 | 1.006 | 1.006 | NO | 7490 | | 415 |
| 7 | Phenanthrene | 3.00e6 | 7.14e4 | 1.19 | 1.000 | 18.32 | 18.29 | 1.002 | 1.001 | NO | 7060 | | 170 |
| 9 | Anthracene | 3.34e6 | 7.14e4 | 1.09 | 1.000 | 18.38 | 18.32 | 1.005 | 1.002 | NO | 8590 | | 166 |
| 11 | Pyrene | 7.65e5 | 1.62e5 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 786 | | 8.56 |
| 23 | db-Acenaphthylene | 1.46e5 | 1.56e5 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 207 | 104 | 330 |
| 24 | d10-Acenaphthene | 7.14e4 | 1.56e5 | 0.594 | 1.000 | 14.62 | 14.60 | 1.226 | 1.224 | NO | 154 | 77.1 | 43.1 |
| 25 | d10-Fluorene | 6.54e4 | 1.56e5 | 0.563 | 1.000 | 15.86 | 15.83 | 1.330 | 1.328 | NO | 149 | 74.5 | 199 |
| 26 | d10-Phenanthrene | 7.14e4 | 1.56e5 | 0.735 | 1.000 | 18.28 | 18.28 | 1.533 | 1.533 | NO | 125 | 62.3 | 136 |
| 27 | d10-Fluoranthene | 1.62e5 | 1.56e5 | 1.29 | 1.000 | 20.31 | 20.32 | 0.977 | 0.977 | NO | 162 | 81.0 | 1.78 |
| 36 | d10-Anthracene | 6.02e4 | 9.05e4 | 0.989 | 1.000 | 18.37 | 18.34 | 1.541 | 1.538 | NO | 134 | 67.2 | 518 |
| 40 | d10-Pyrene | 1.56e5 | 1.56e5 | 1.00 | 1.000 | 20.81 | 20.79 | 1.000 | 1.000 | NO | 200 | 100 | 2.29 |
| 41 | d12-Perylene | 9.05e4 | 9.05e4 | 1.00 | 1.000 | 29.59 | 29.50 | 1.000 | 1.000 | NO | 200 | 100 | 1.76 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

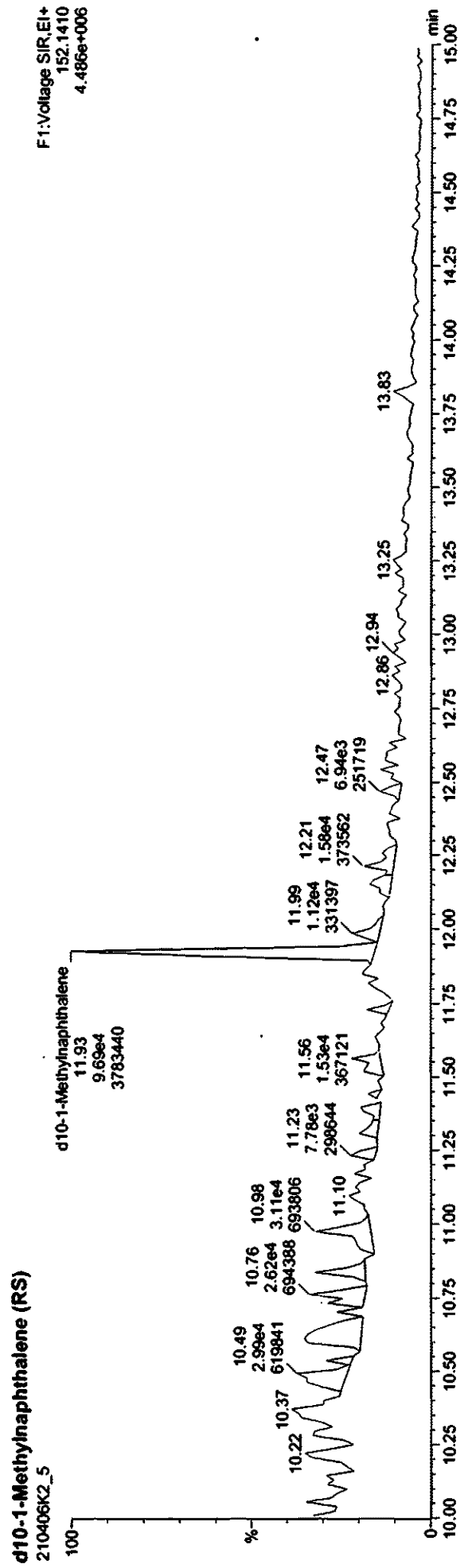
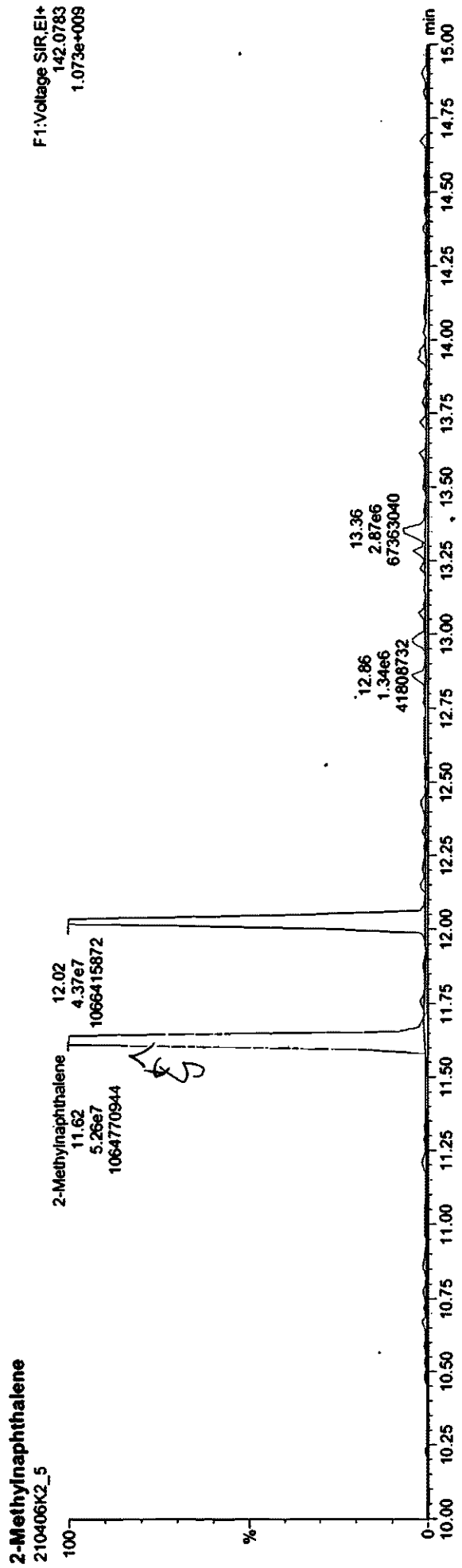
Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

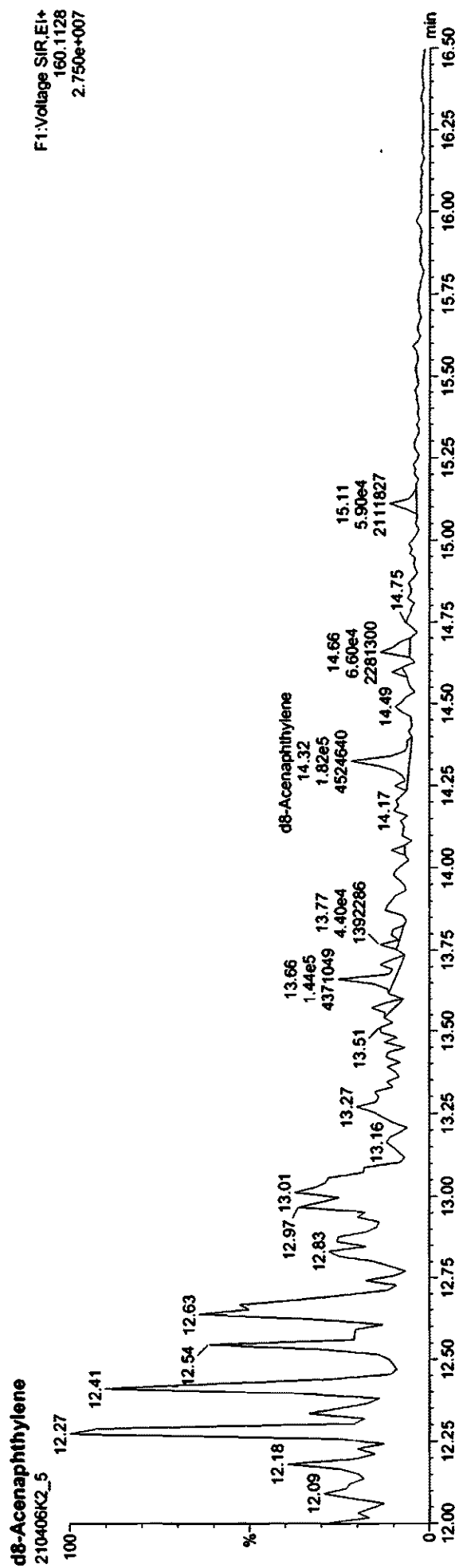
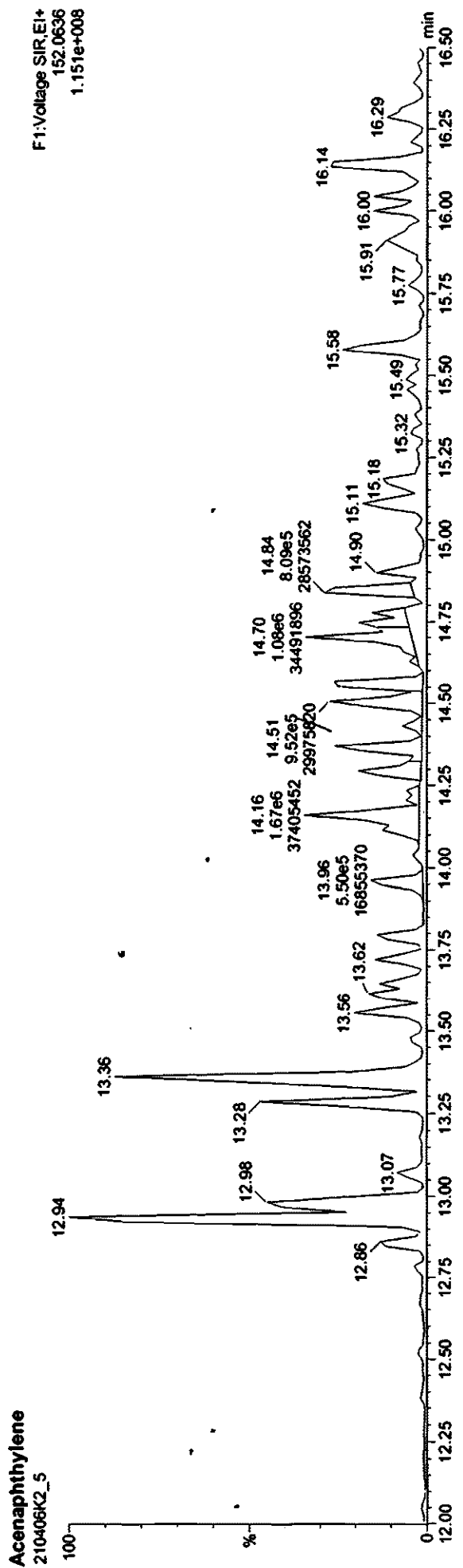
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Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1

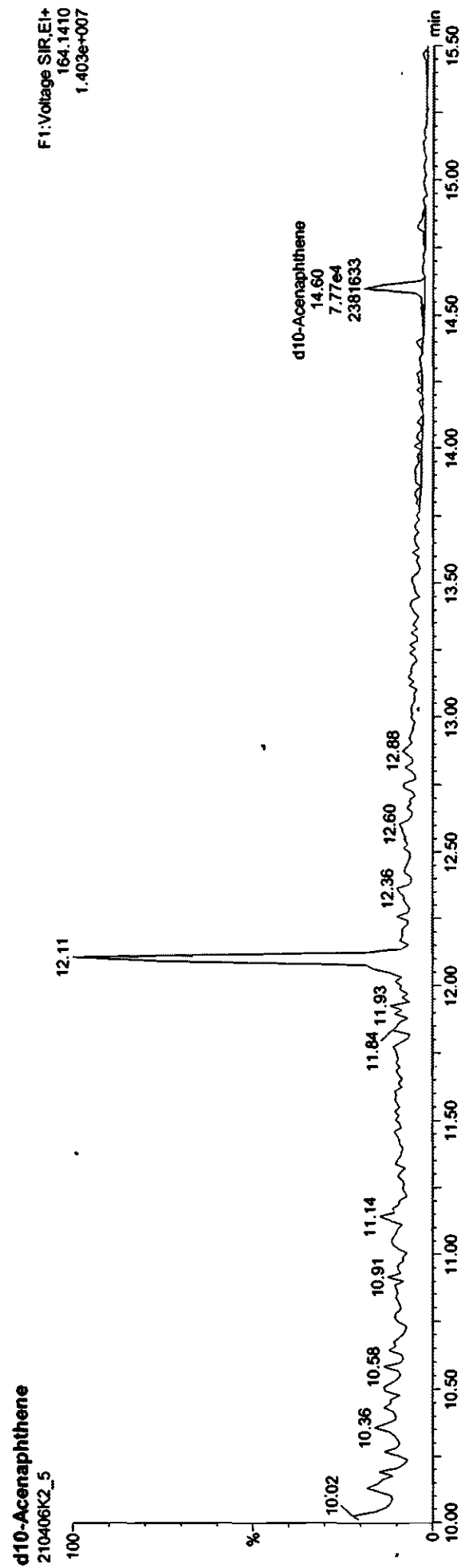
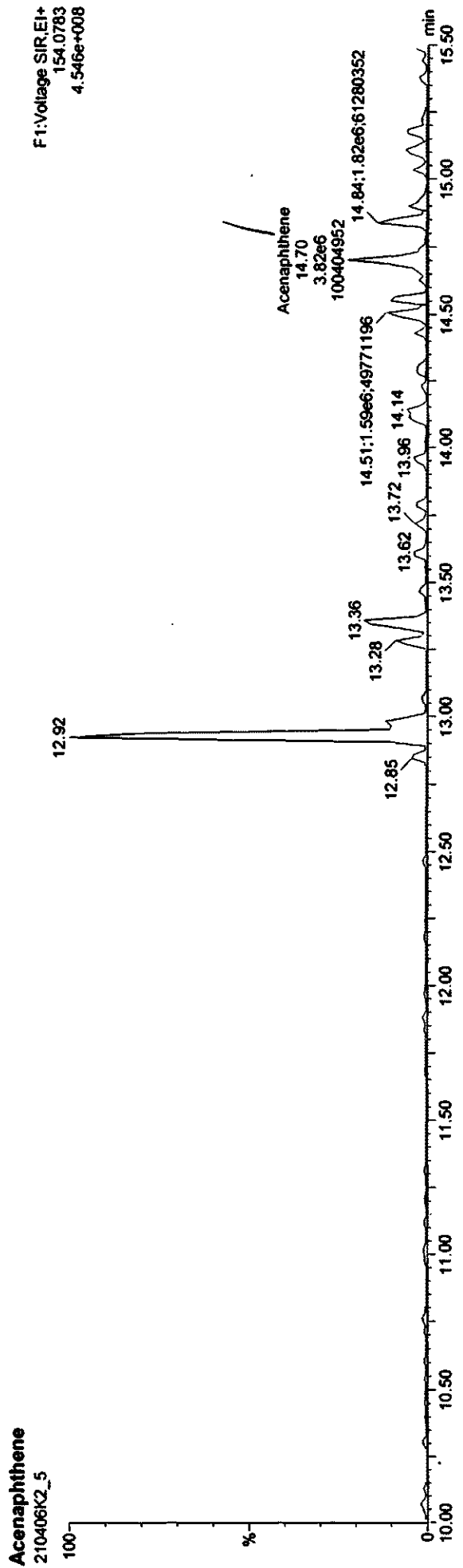


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1

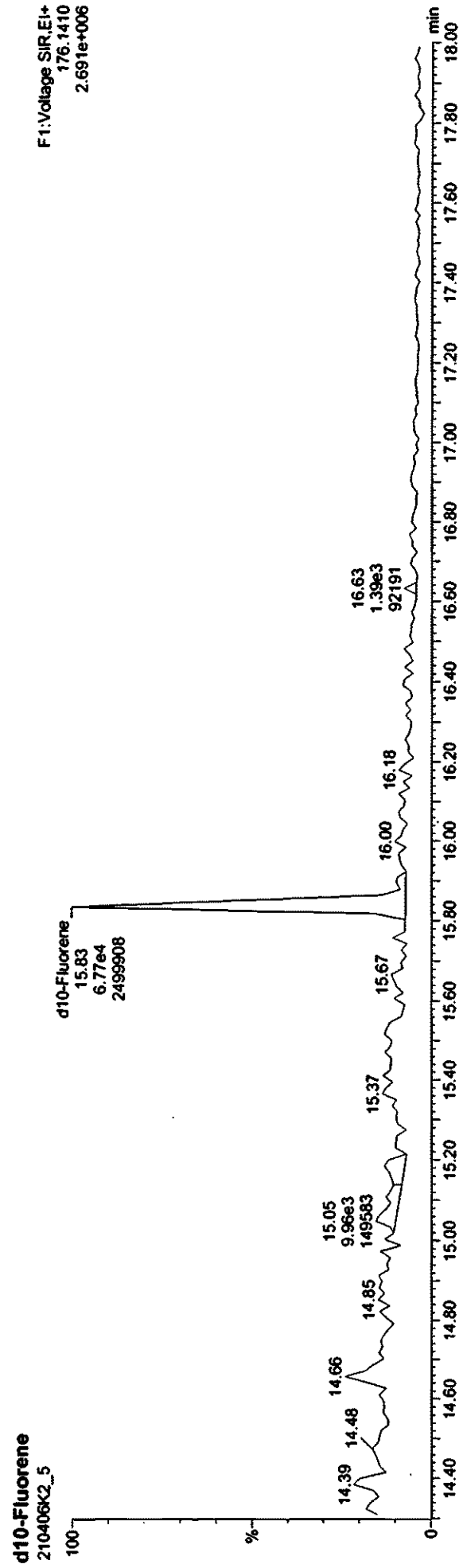
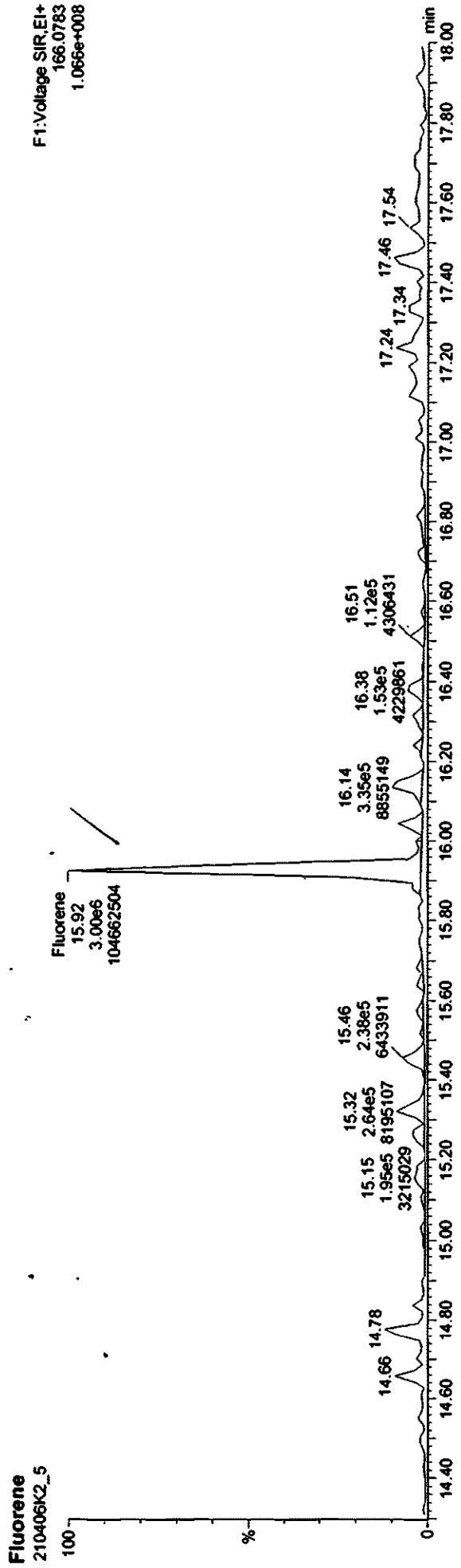


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

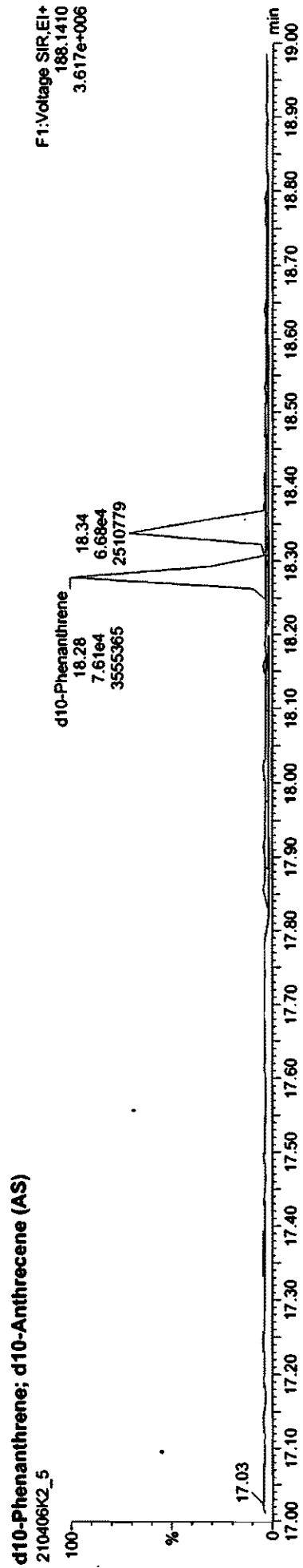
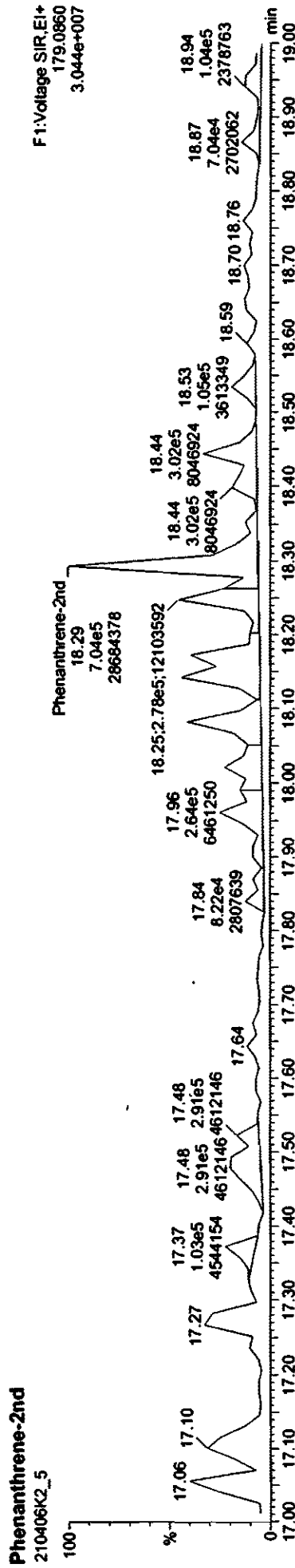
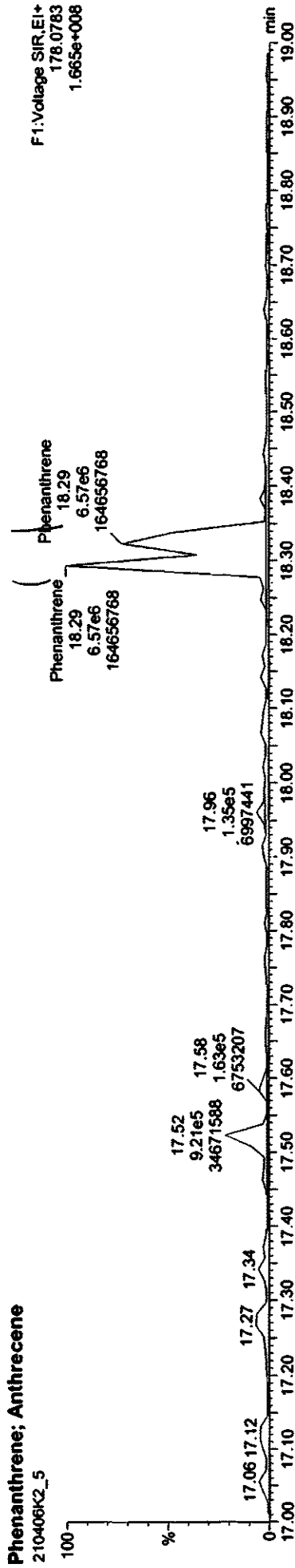
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Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1



Quantify Sample Report
Vista Analytical Laboratory

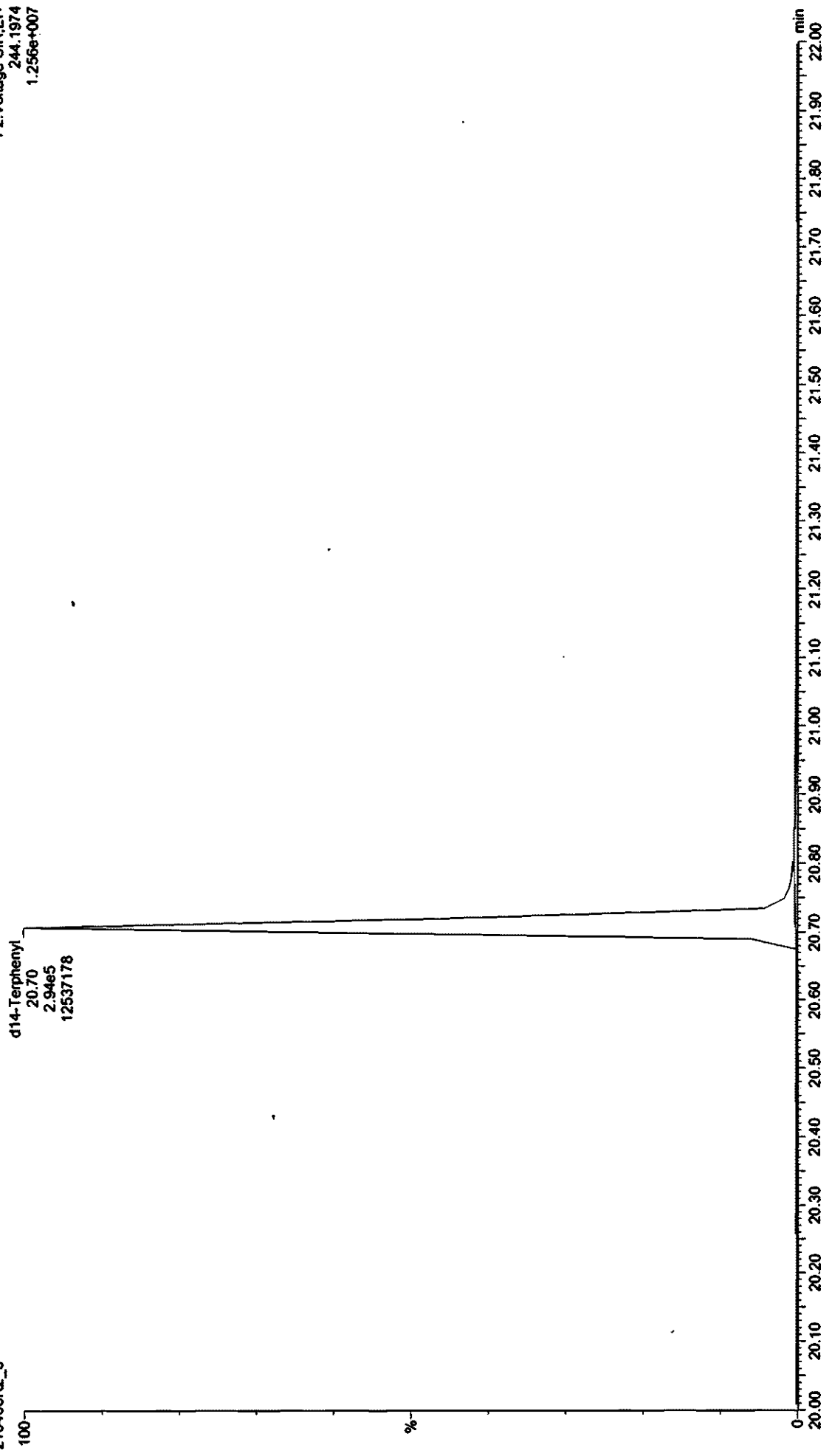
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Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

d14-Terphenyl (PS)
210406K2_5

F2:Voltage SIR.EI+
244.1974
1.256e+007



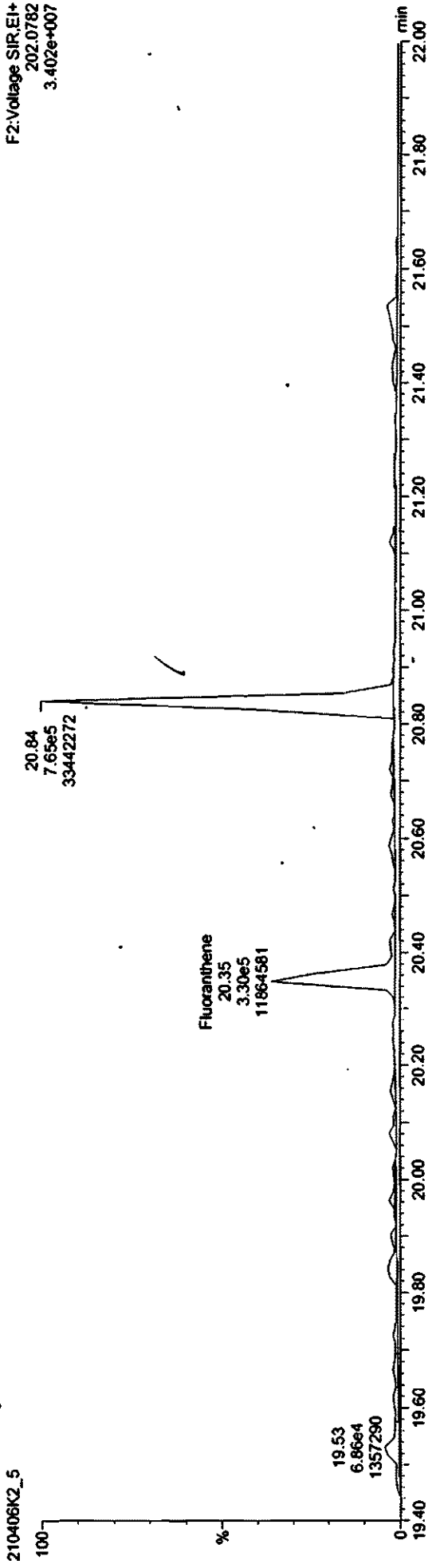
Dataset: Untitled

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Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

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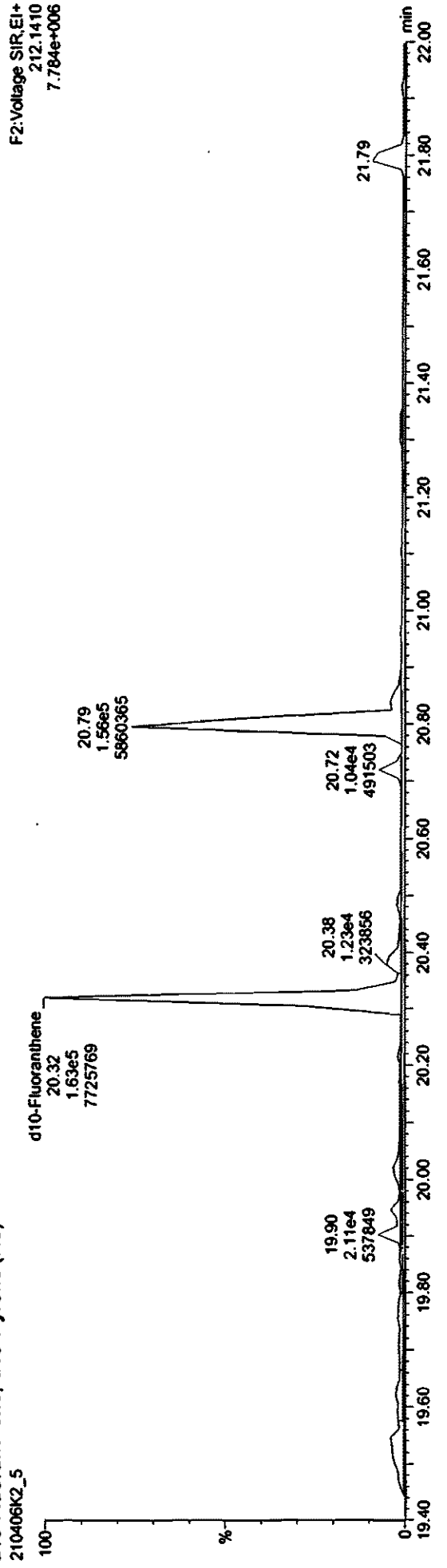
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
3.402e+007

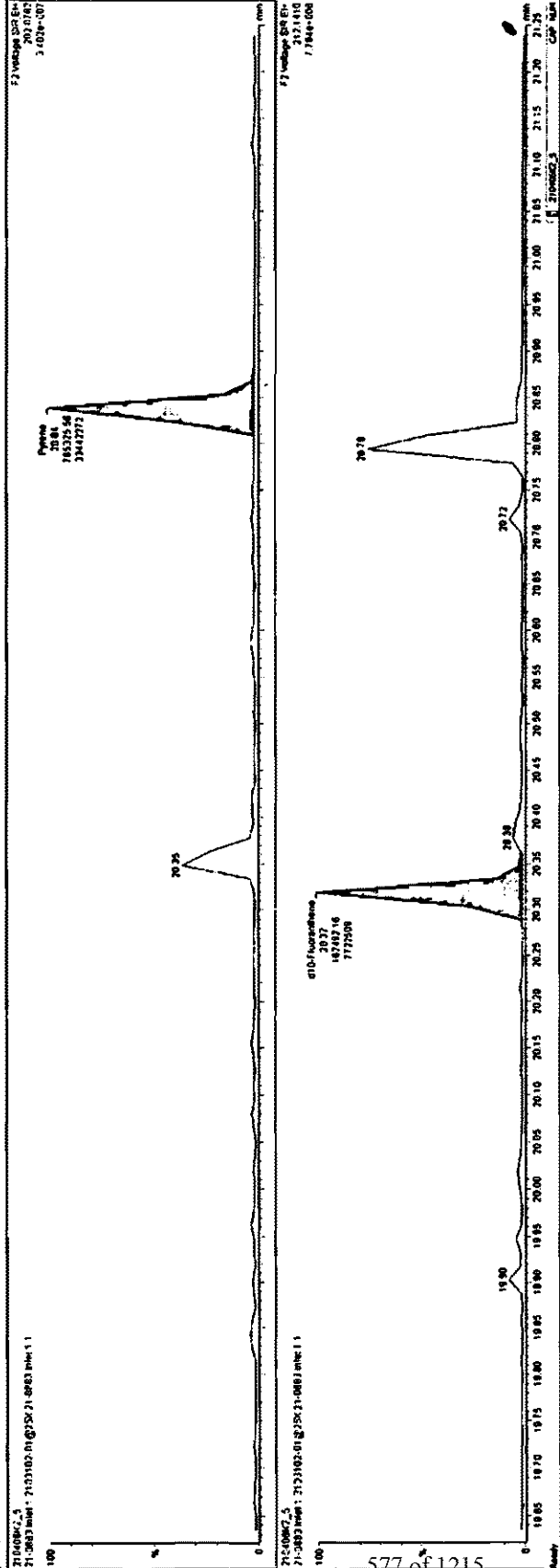


d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
7.784e+006



| Peak | RT | Area | % | Height | Width | Height | Area | Height | Area | Height | Area | Height |
|------|-------|-------|------|--------|-------|--------|------|--------|------|--------|------|--------|
| 1 | 11.47 | 10628 | 1.59 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 12 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 13 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 14 | 11.56 | 1376 | 0.19 | 10.1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |



Dataset: Untitled

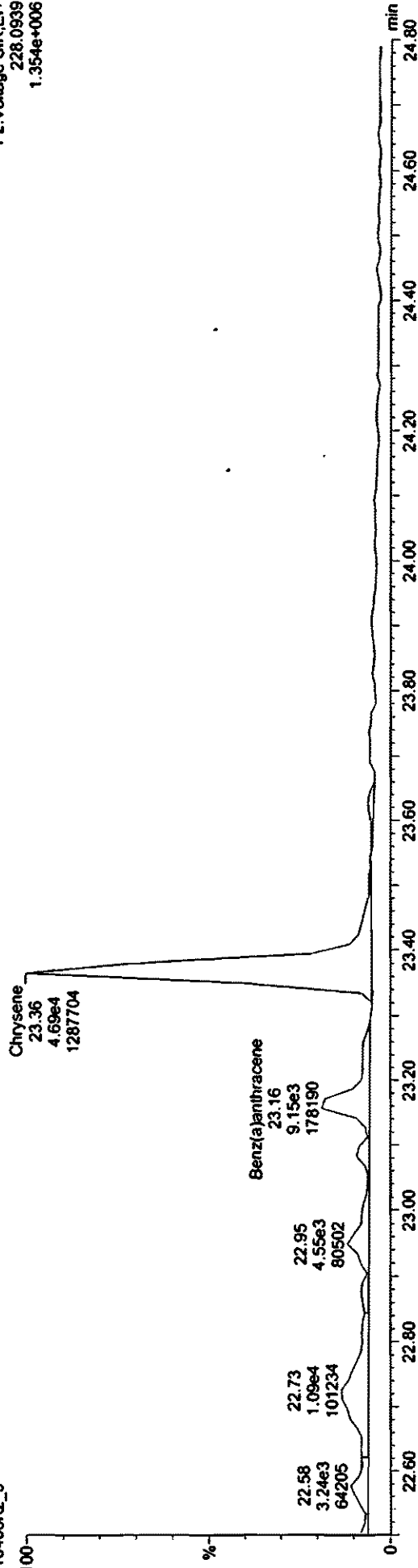
Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1

Benz(a)Anthracene-Chrysene

210406K2_5

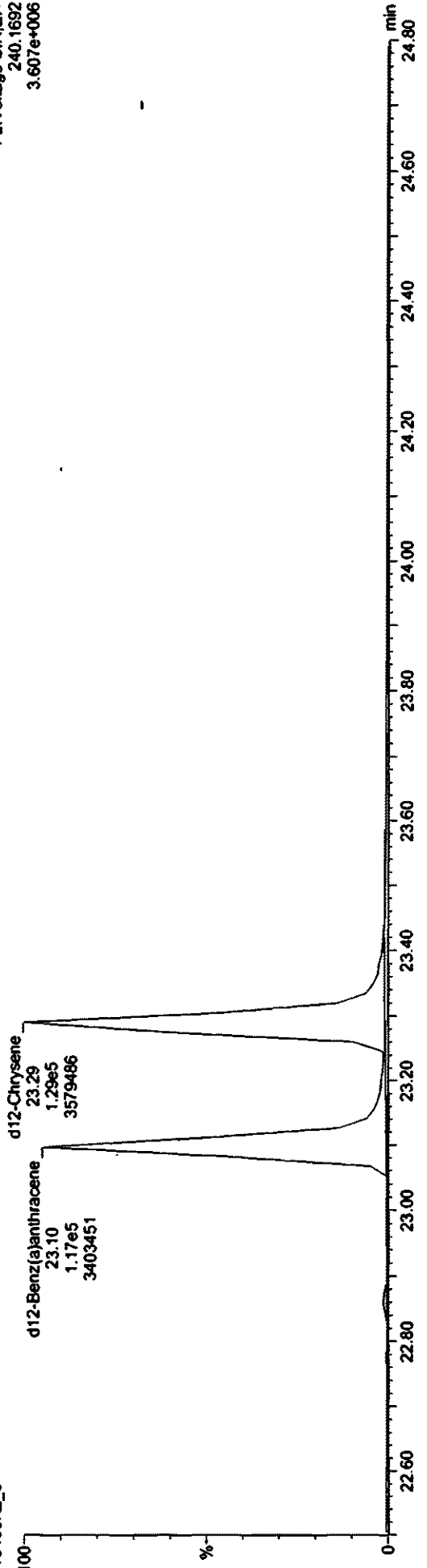
F2:Voltage SIR,EI+
228.0939
1.354e+006



Benz(a)Anthracene-Chrysene-Iso

210406K2_5

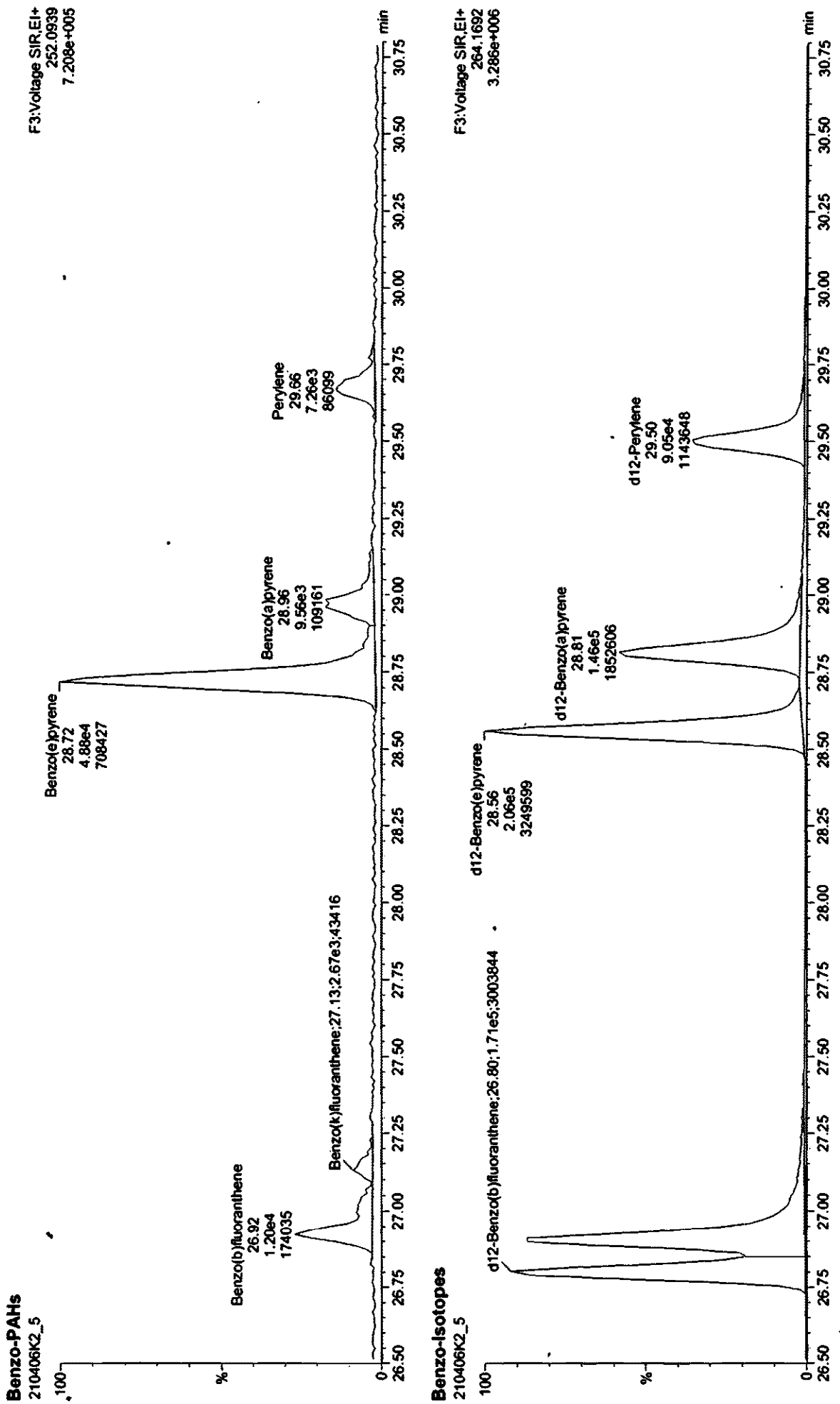
F2:Voltage SIR,EI+
240.1692
3.607e+006



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1



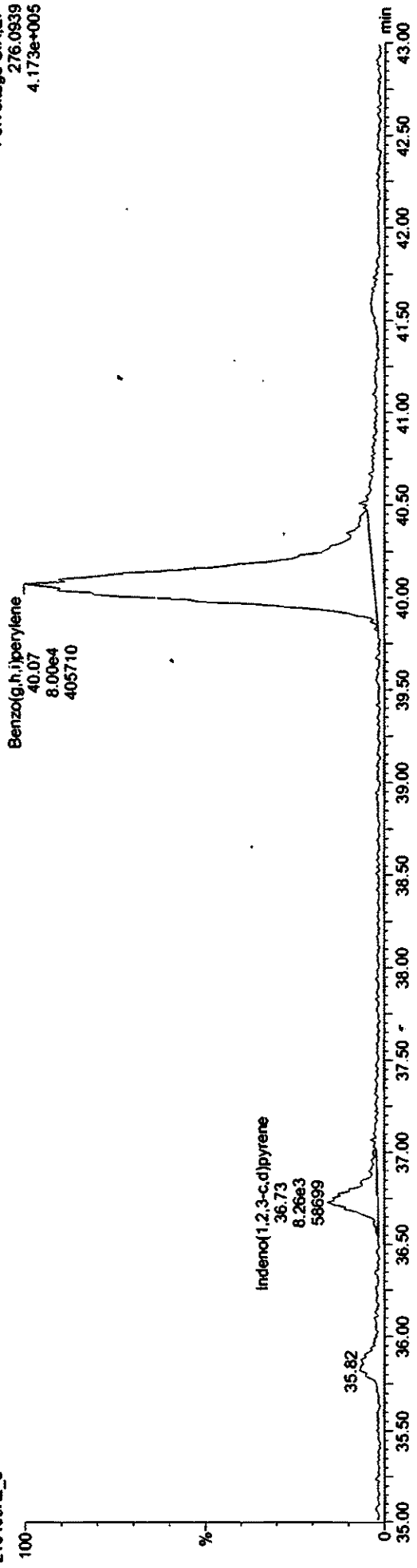
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Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1

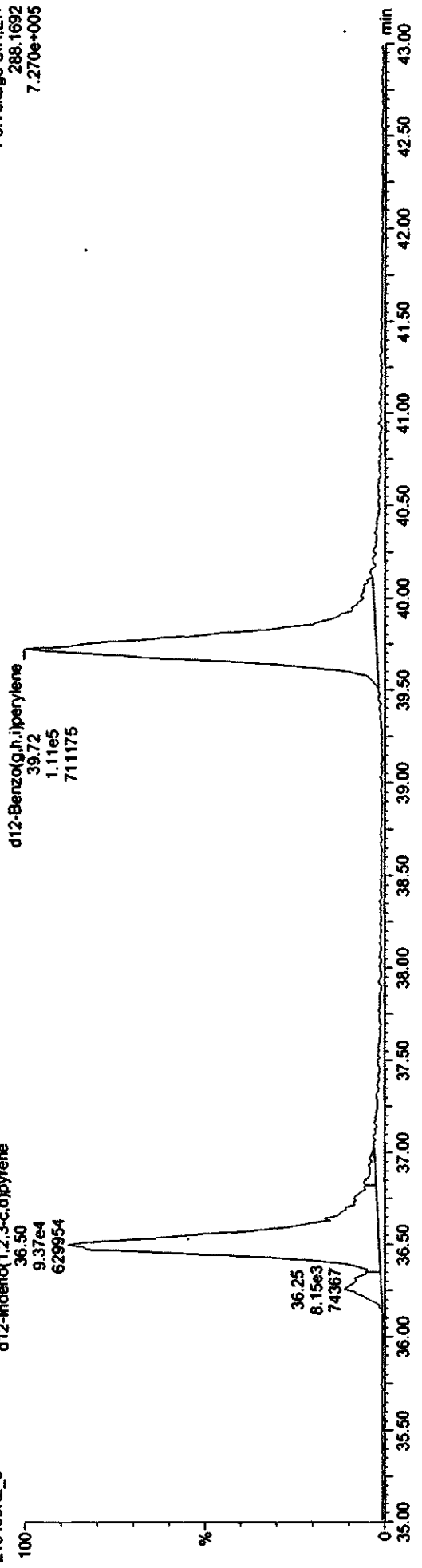
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene
210406K2_5

F3:Voltage SIR.EI+
276.0939
4.173e+005



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene
210406K2_5

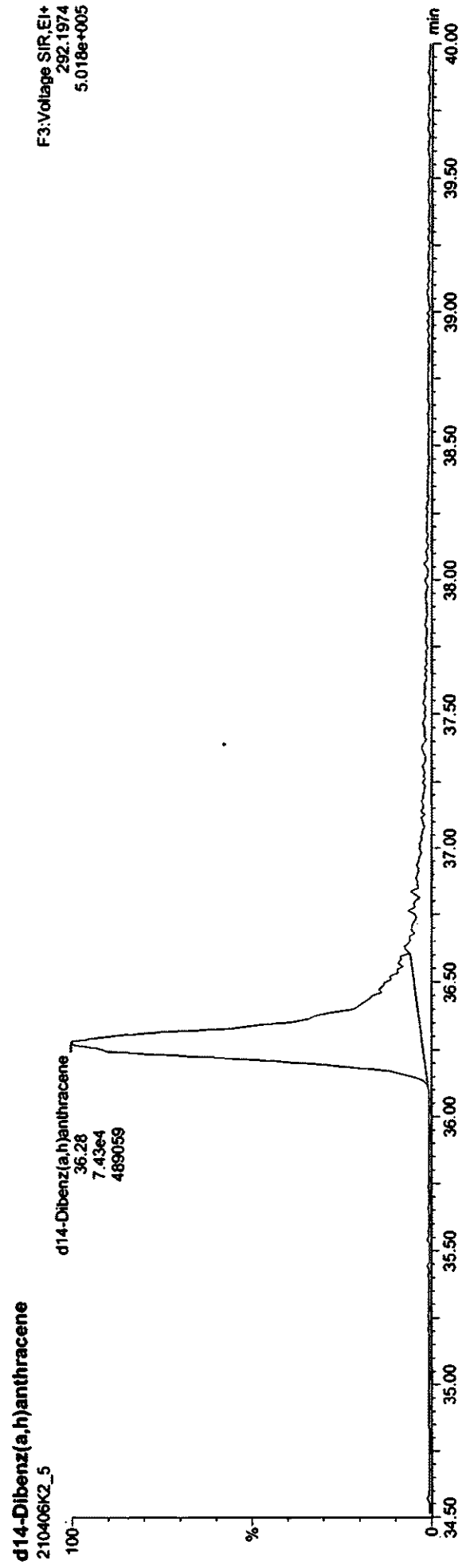
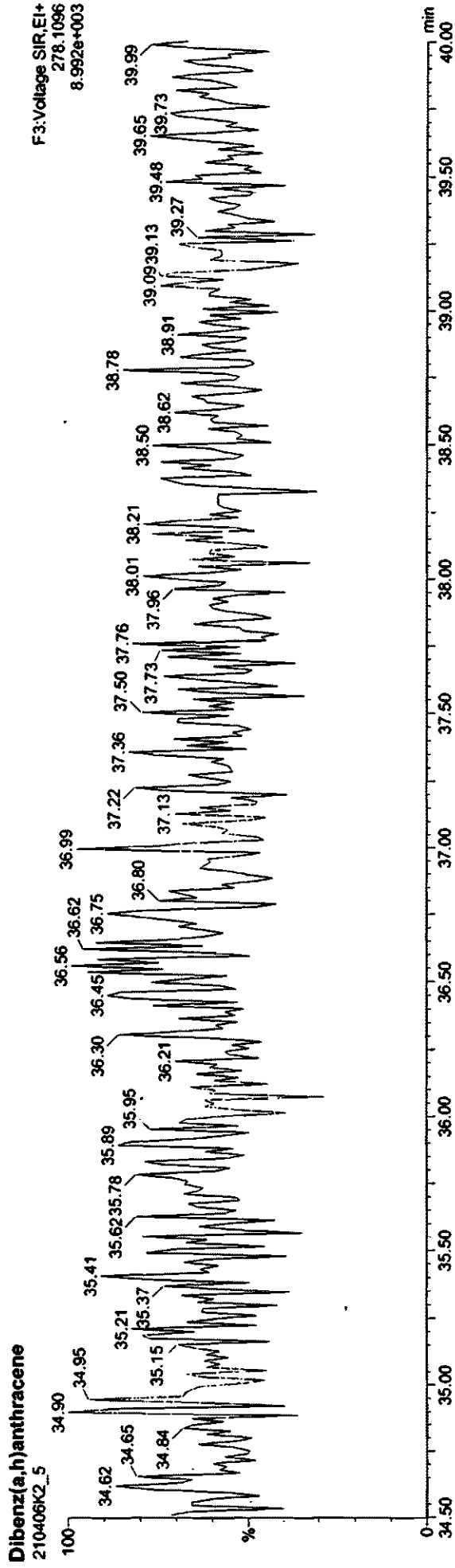
F3:Voltage SIR.EI+
288.1692
7.270e+005



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 11:13:17 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:13:39 AM Pacific Daylight Time

Name: 210406K2_5, Date: 07-Apr-2021, Time: 05:14:52, ID: 2103102-01@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 1



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210407K1\210407K1-3.qld

Last Altered: Thursday, April 08, 2021 11:44:37 Pacific Daylight Time
Printed: Thursday, April 08, 2021 11:45:20 Pacific Daylight Time

14 U.S. 2021

C104/09/2021

conc needs to be multiplied by factor of 1000, (500 for dil → new extract # 2 for split)

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurvesDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

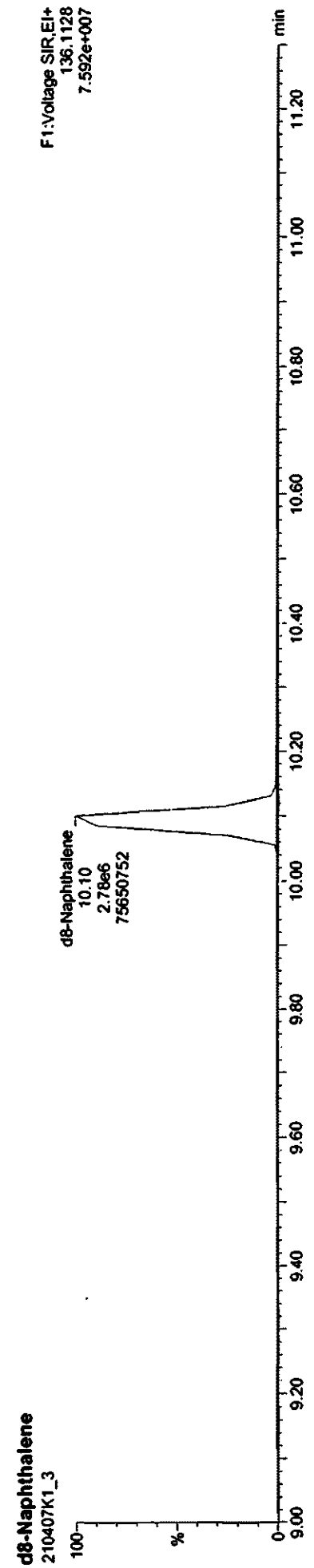
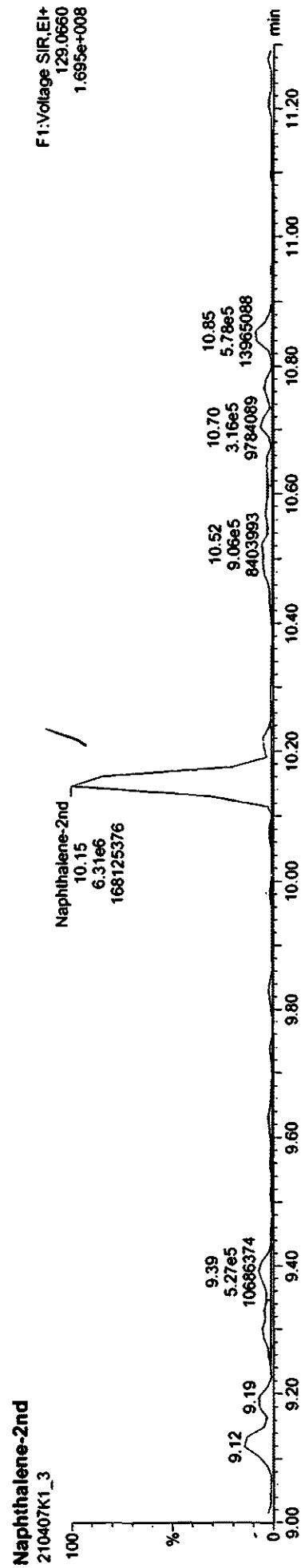
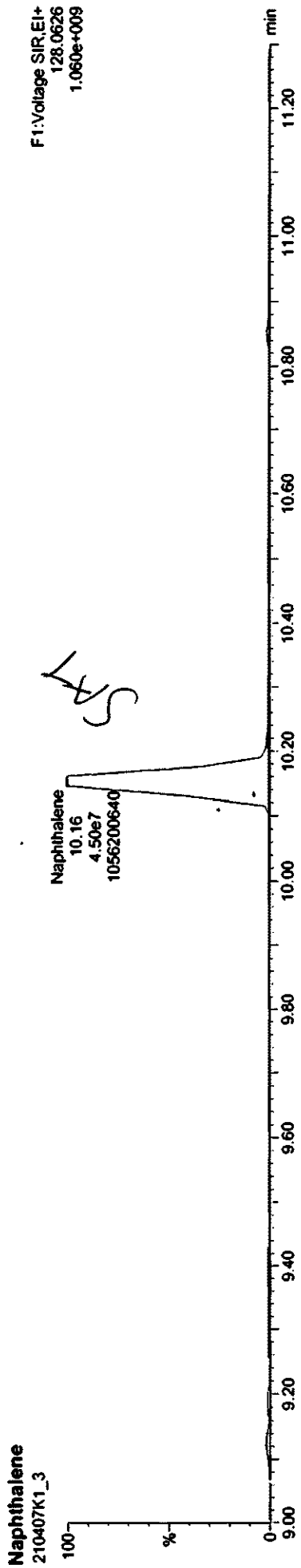
Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

| L# | Name | Resp | IS Resp | RRF | wvol | Pred.RT | L RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|---------------------|--------|---------|-------|-------|---------|-------|---------|-------|---------|------|-----------|--------|
| 1 | Naphthalene | 4.50e7 | 2.78e6 | 1.16 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 2800 | 71807000 | 3.62 |
| 2 | Naphthalene-2nd | 6.11e6 | 2.78e6 | 0.128 | 1.000 | 10.16 | 10.15 | 1.006 | 1.004 | NO | 3450 | 3,450,000 | 39.6 |
| 3 | 2-Methylnaphthalene | 1.12e7 | 1.54e6 | 1.38 | 1.000 | 11.60 | 11.61 | 0.794 | 0.795 | NO | 1060 | 1,060,000 | 1.34 |
| 4 | Acenaphthylene | 4.31e4 | 2.35e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 3.30 | 3,300 | 2.30 |
| 5 | 2,8-Dibenzofluorene | 2.78e6 | 6.76e5 | 1.20 | 1.000 | 10.10 | 10.10 | 0.848 | 0.848 | NO | 172 | 85.9 | 0.0823 |
| 6 | 2,3-Dibenzofluorene | 2.35e6 | 6.76e5 | 0.905 | 1.000 | 14.31 | 14.32 | 1.201 | 1.203 | NO | 194 | 96.4 | 0.522 |
| 7 | 2,4-Dibenzofluorene | 1.54e6 | 6.76e5 | 0.594 | 1.000 | 14.60 | 14.60 | 1.226 | 1.225 | NO | 194 | 96.6 | 0.116 |
| 8 | 4,9-Dibenzofluorene | 6.76e5 | 6.76e5 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 50.4 | 100 | 0.0151 |

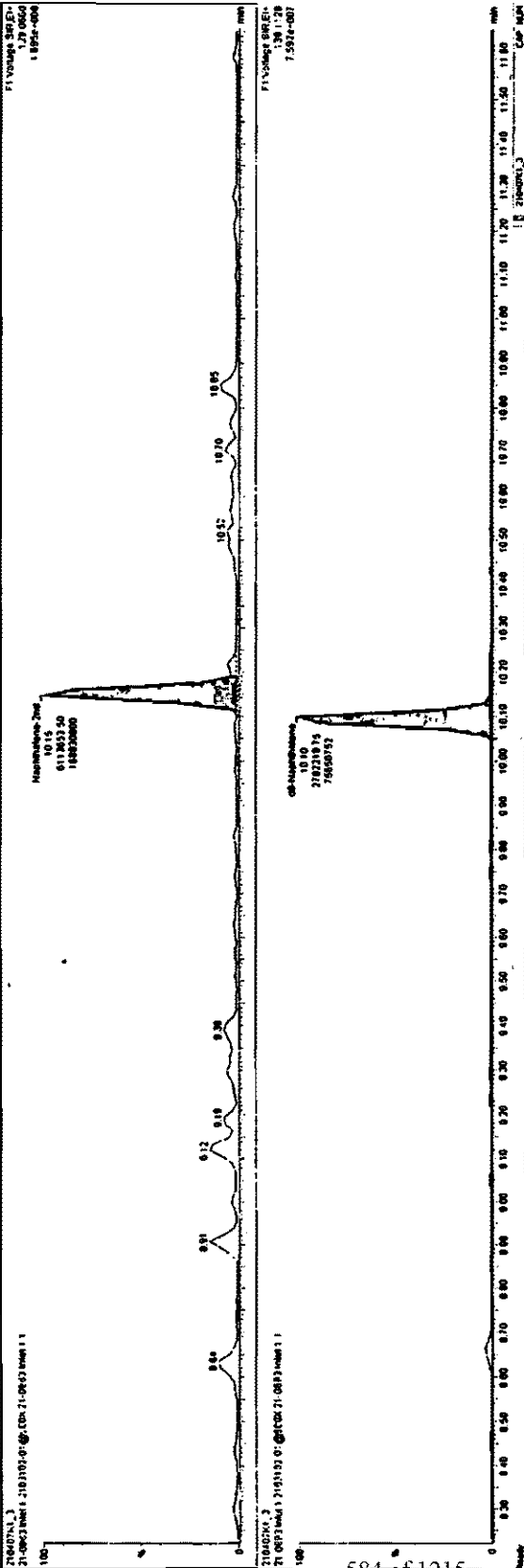
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1, Description: 21-0883 Inlet 1



| RT | Area | Height | Width | Area% | Height% | Area% | Height% |
|----|-------|--------|-------|-------|---------|-------|---------|
| 1 | 2350 | 7180 | 1150 | 0.001 | 0.011 | 0.000 | 0.011 |
| 2 | 3118 | 2780 | 1270 | 0.002 | 0.011 | 0.000 | 0.011 |
| 3 | 11207 | 1220 | 1370 | 0.005 | 0.011 | 0.000 | 0.011 |
| 4 | 2226 | 7280 | 1180 | 0.003 | 0.011 | 0.000 | 0.011 |
| 5 | 1244 | 1120 | 1150 | 0.001 | 0.011 | 0.000 | 0.011 |
| 6 | 2134 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 7 | 1828 | 1270 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 8 | 2795 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 9 | 2624 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 10 | 2814 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 11 | 2814 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 12 | 2763 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 13 | 2863 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 14 | 2863 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |
| 15 | 2863 | 1240 | 1200 | 0.002 | 0.011 | 0.000 | 0.011 |



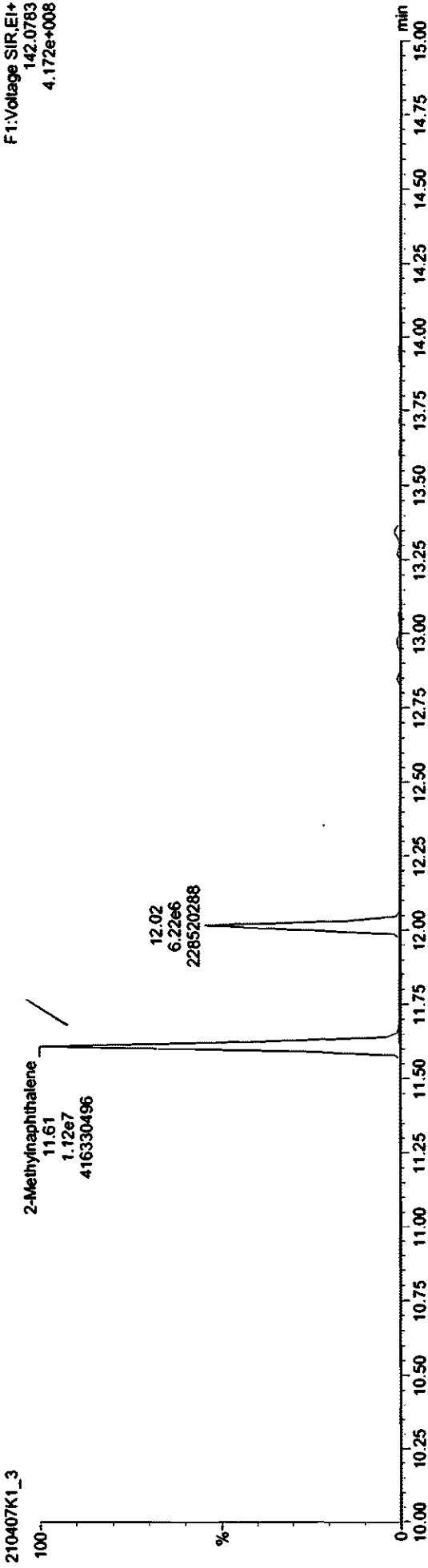
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

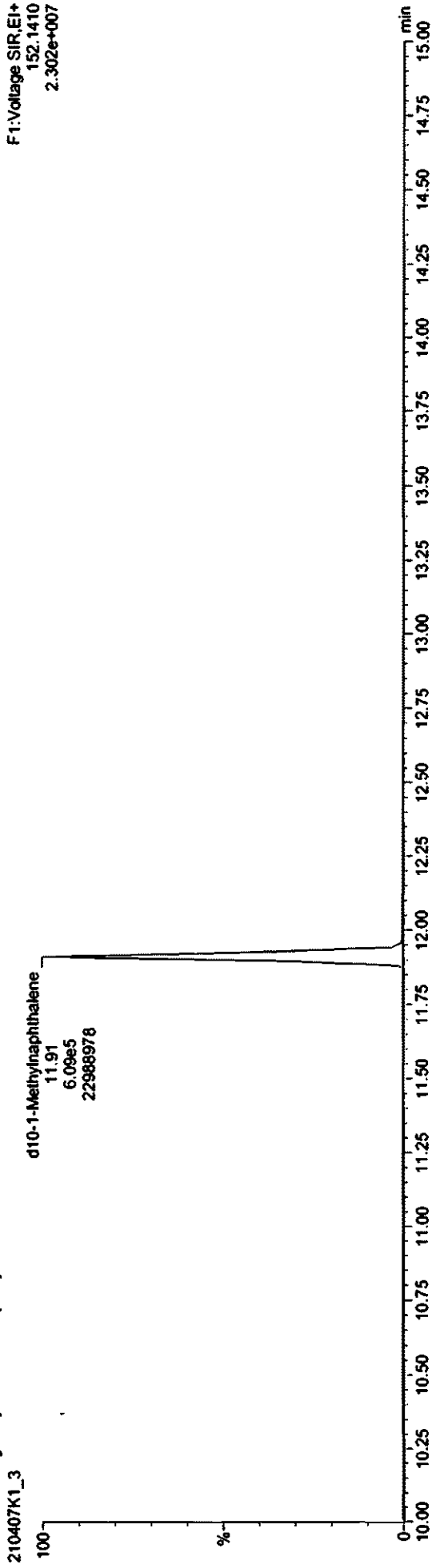
2-Methylnaphthalene

F1:Voltage SIR,EI+
142.0783
4.172e+008



d10-1-Methylnaphthalene (RS)

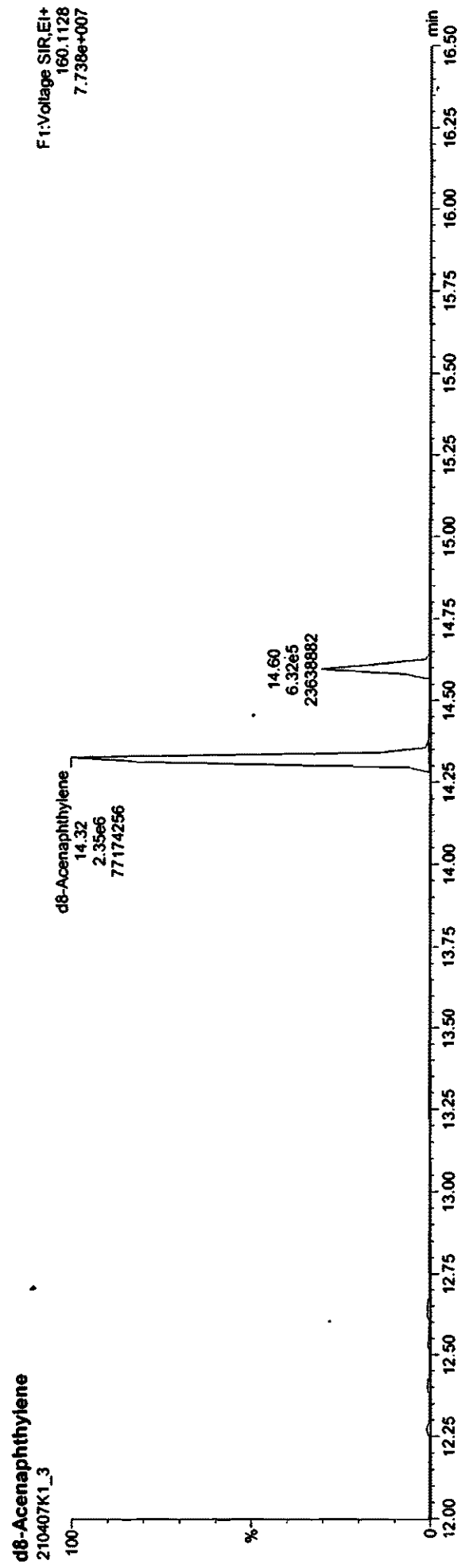
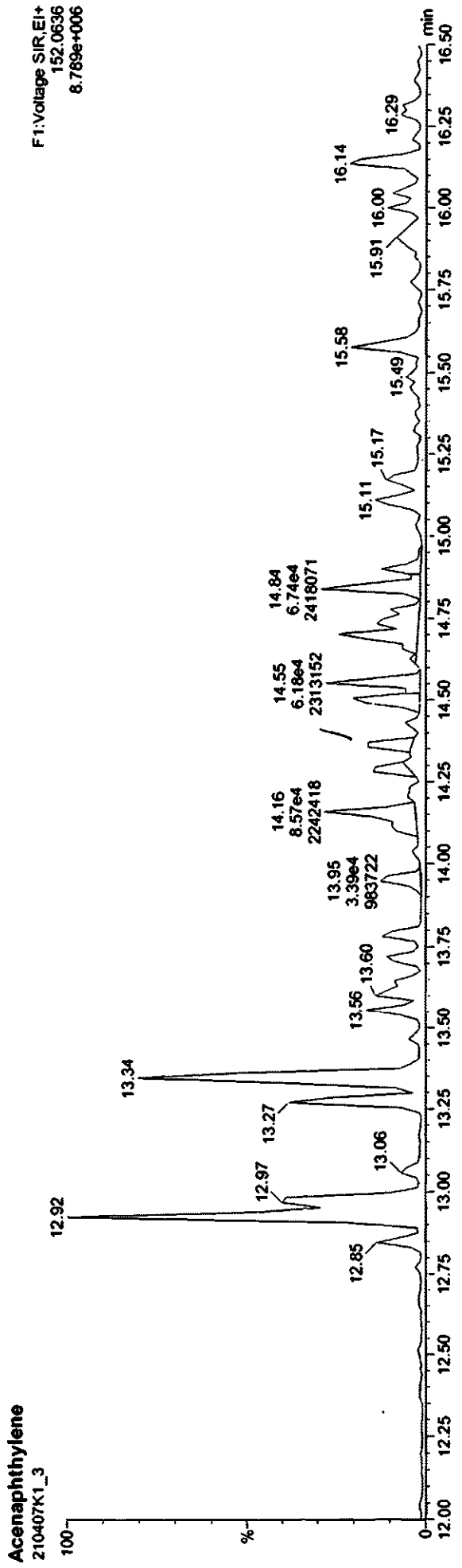
F1:Voltage SIR,EI+
152.1410
2.302e+007



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

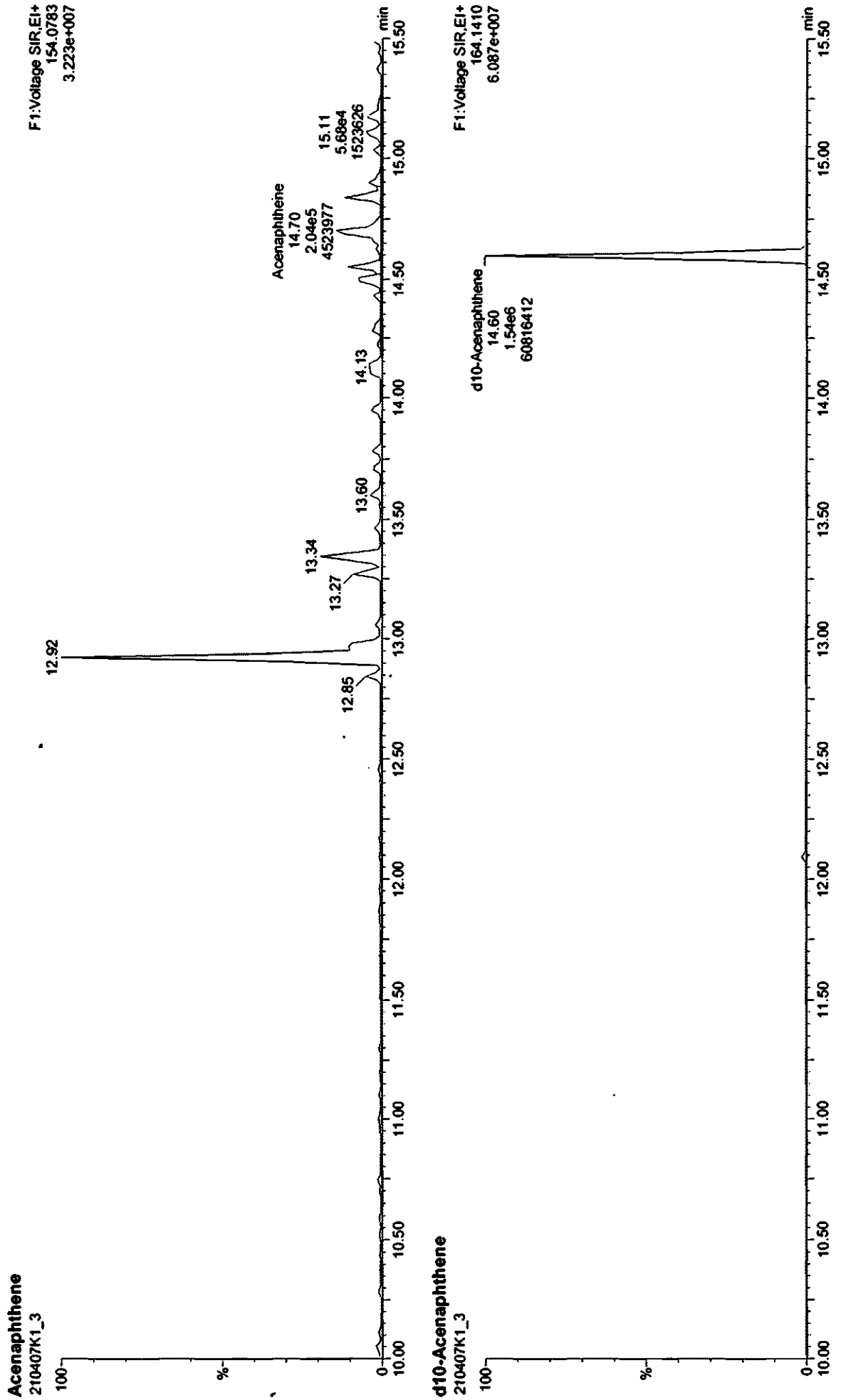


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

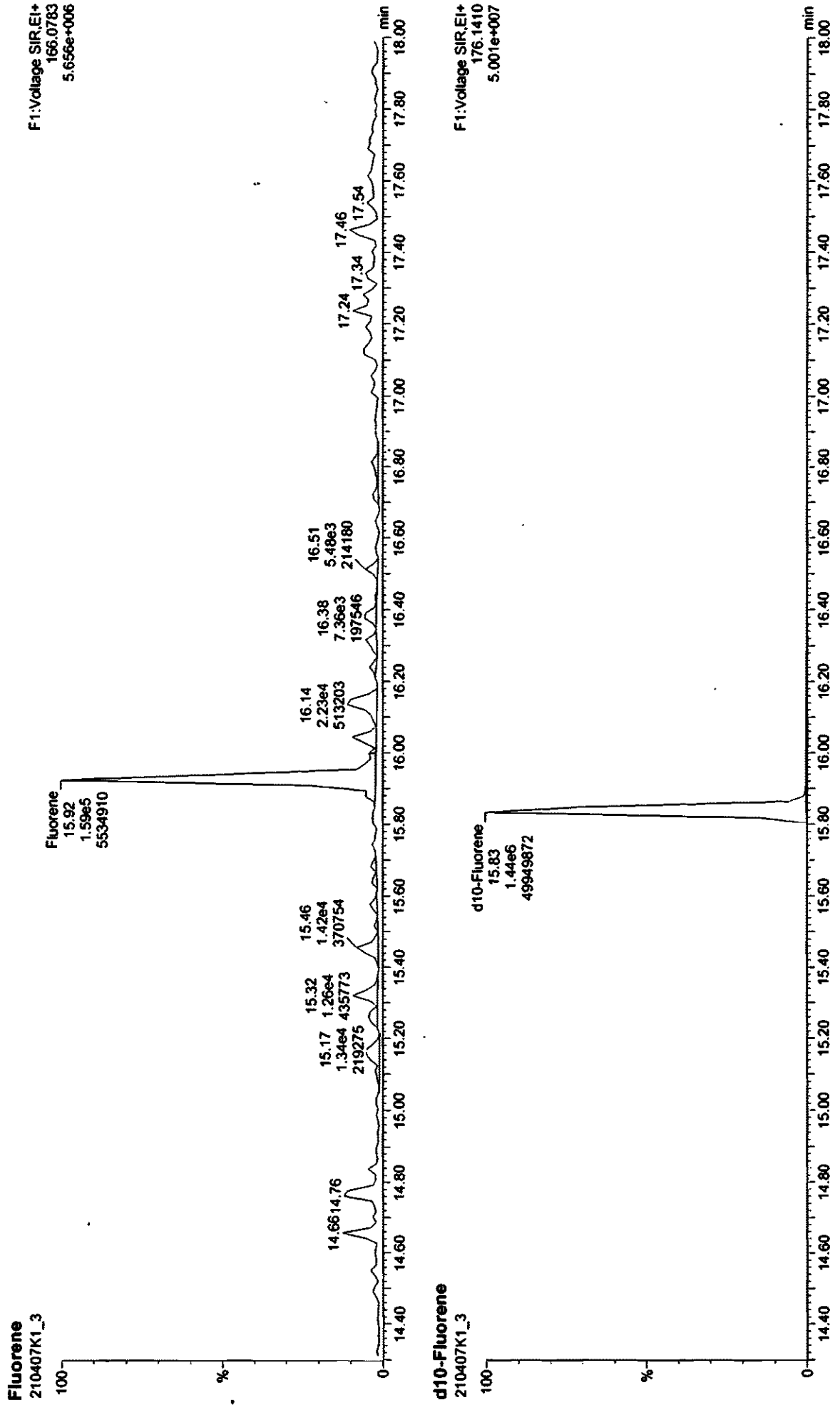


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

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Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

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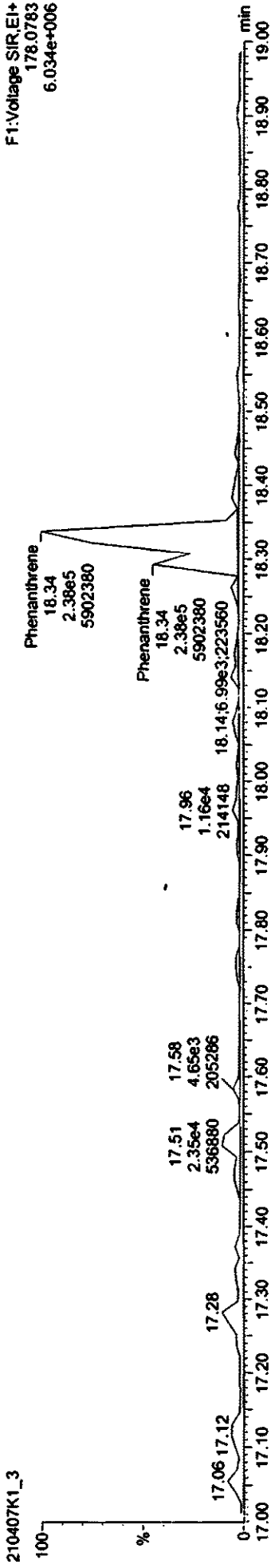
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Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1, Description: 21-0883 Inlet 1

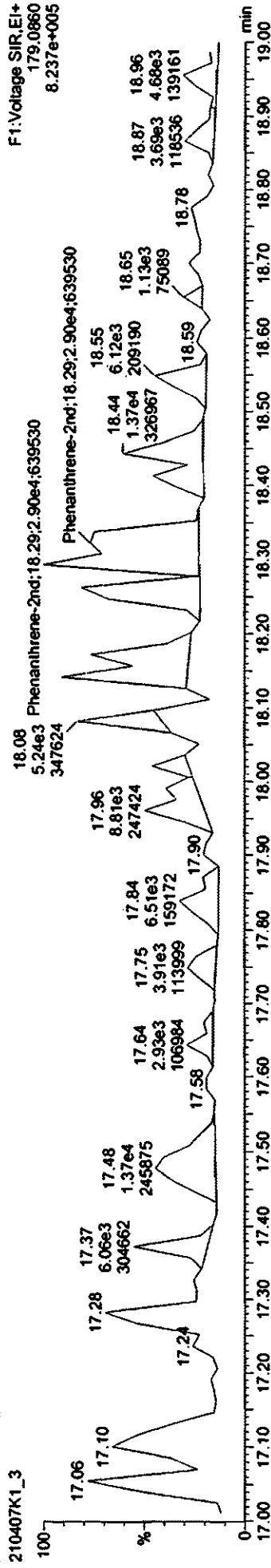
Phenanthrene; Anthracene

F1:Voltage SIR,EI+
178.0783
6.034e+006



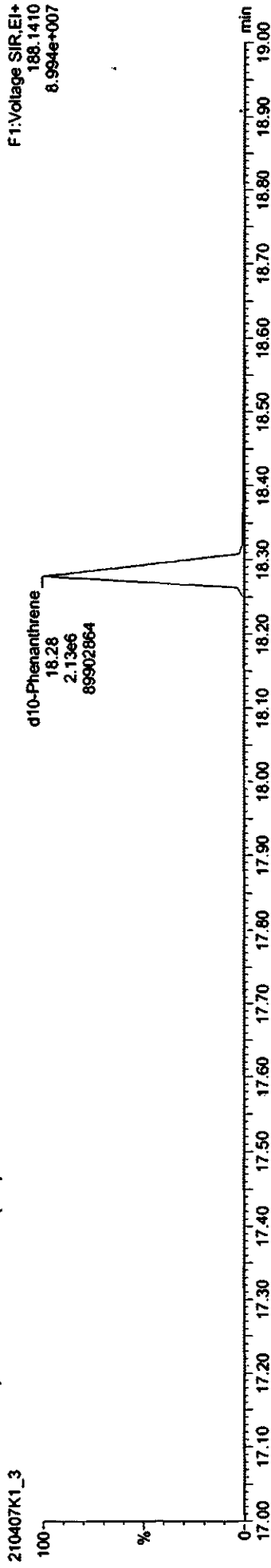
Phenanthrene-2nd

F1:Voltage SIR,EI+
179.0860
8.237e+005



d10-Phenanthrene; d10-Anthracene (AS)

F1:Voltage SIR,EI+
188.1410
8.994e+007



Quantify Sample Report
Vista Analytical Laboratory

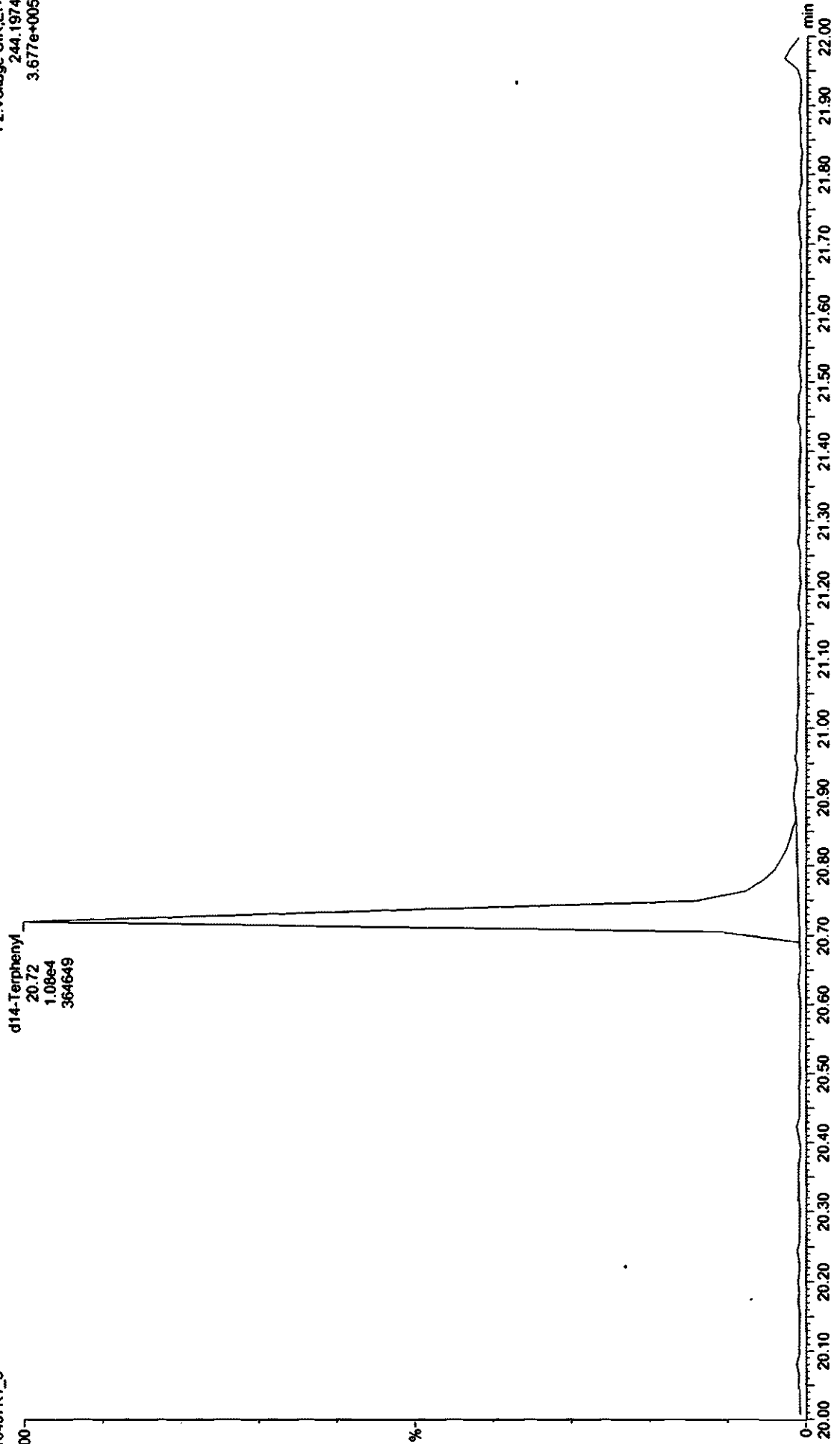
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Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

d14-Terphenyl (PS)
210407K1_3

F2: Voltage SIR, EI+
244.1974
3.577e+005



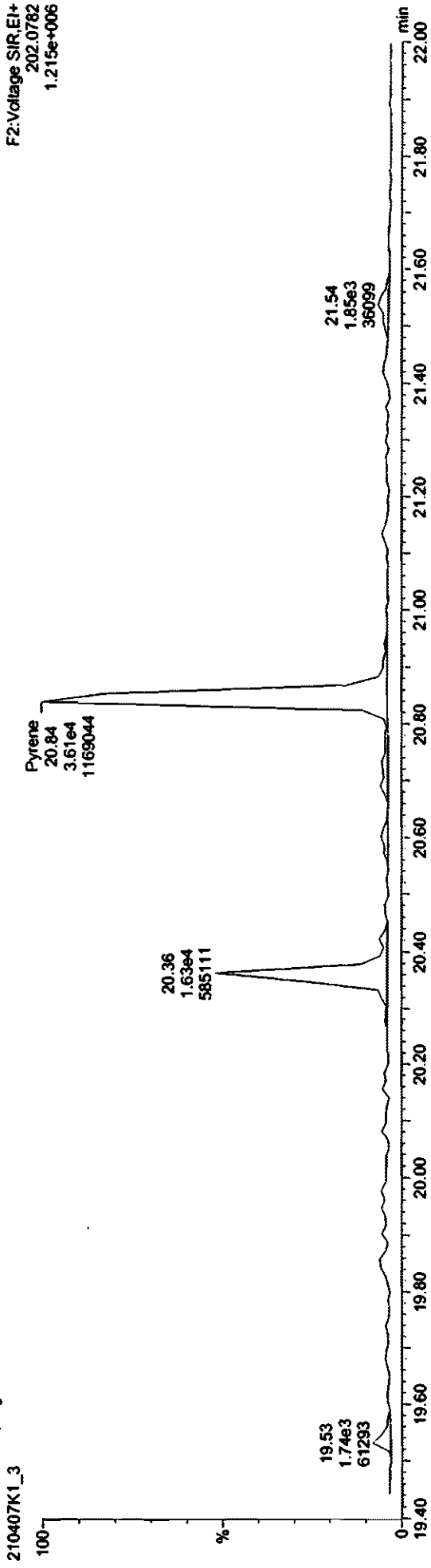
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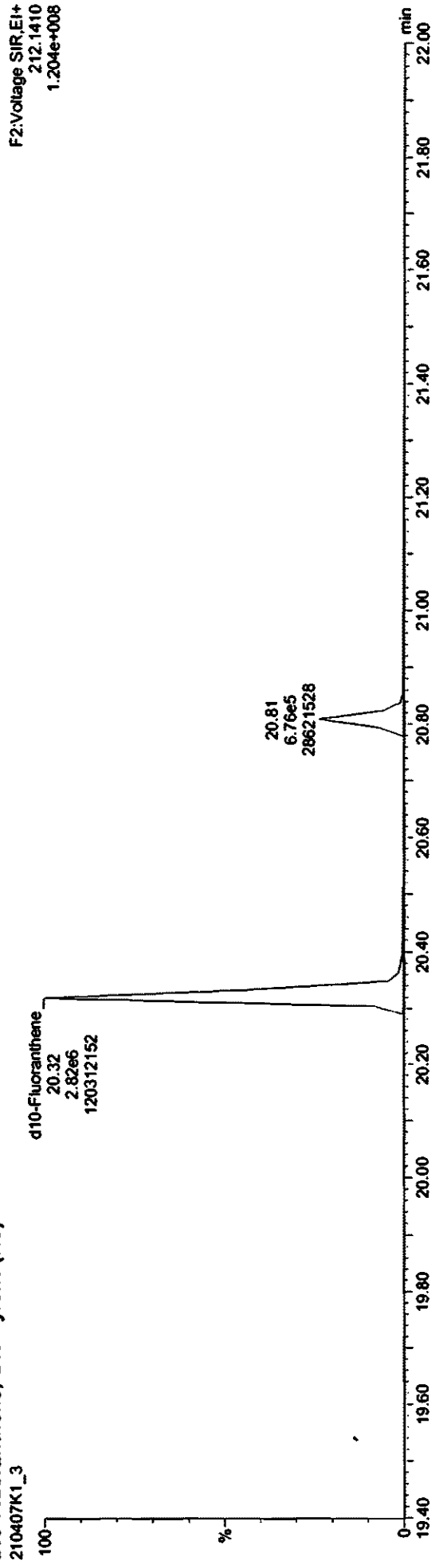
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
1.215e+006



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
1.204e+008



Dataset: Untitled

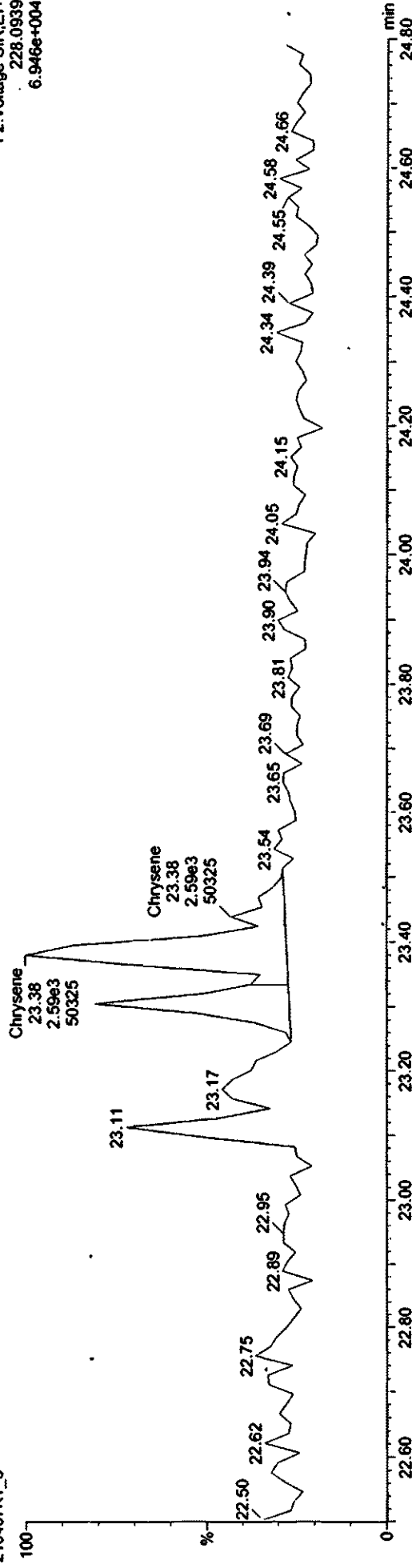
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Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

Benz(a)Anthracene-Chrysene

210407K1_3

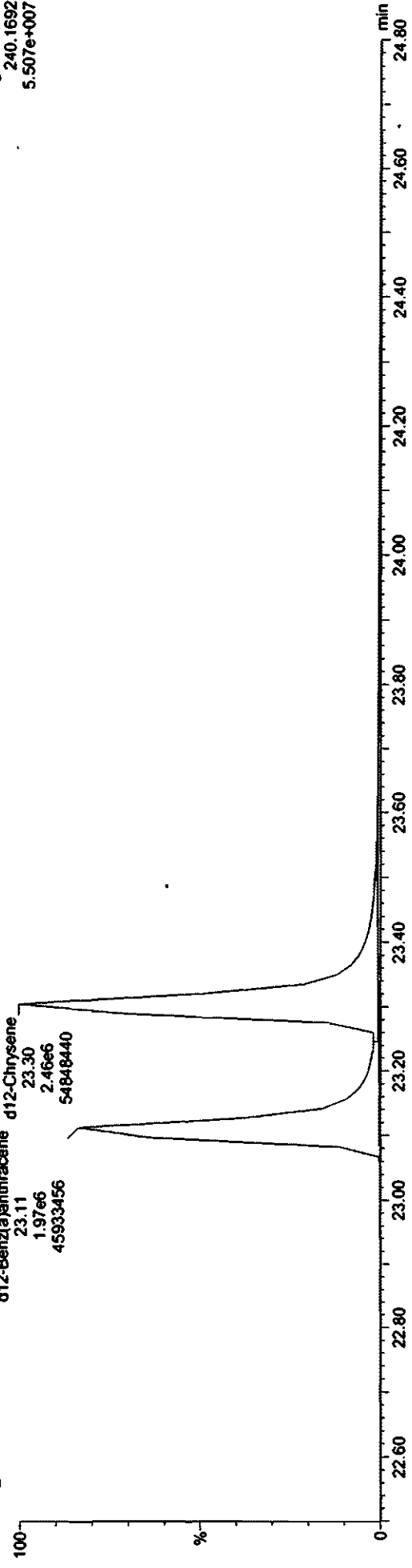
F2:Voltage SIR,EI+
228.0939
6.946e+004



Benz(a)Anthracene-Chrysene-Iso

210407K1_3

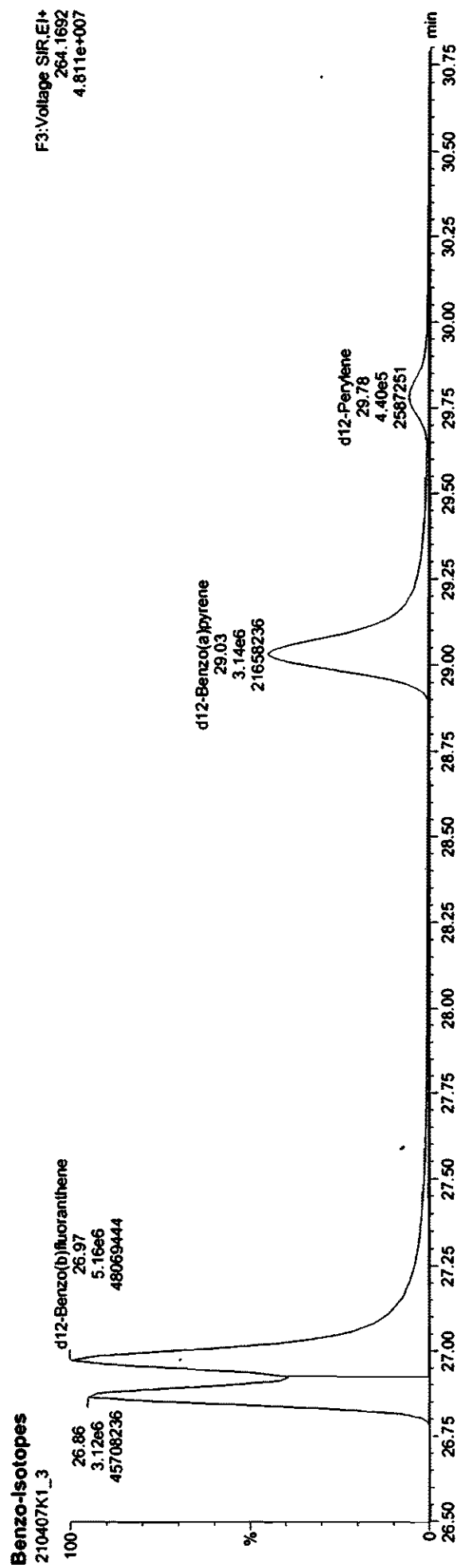
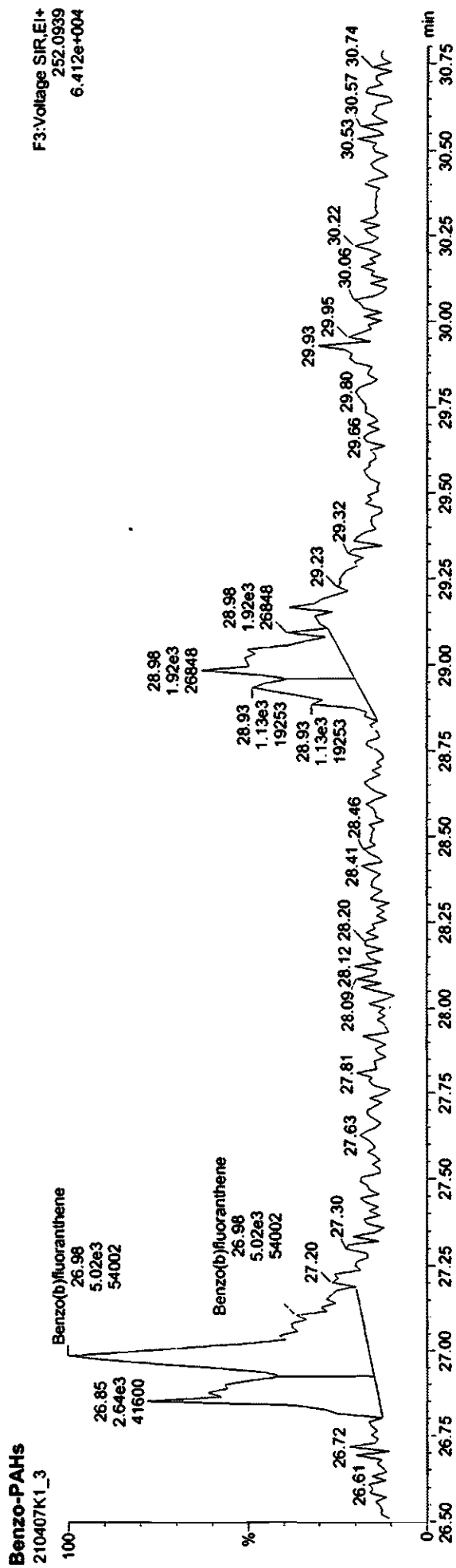
F2:Voltage SIR,EI+
240.1692
5.507e+007



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1, Description: 21-0883 Inlet 1

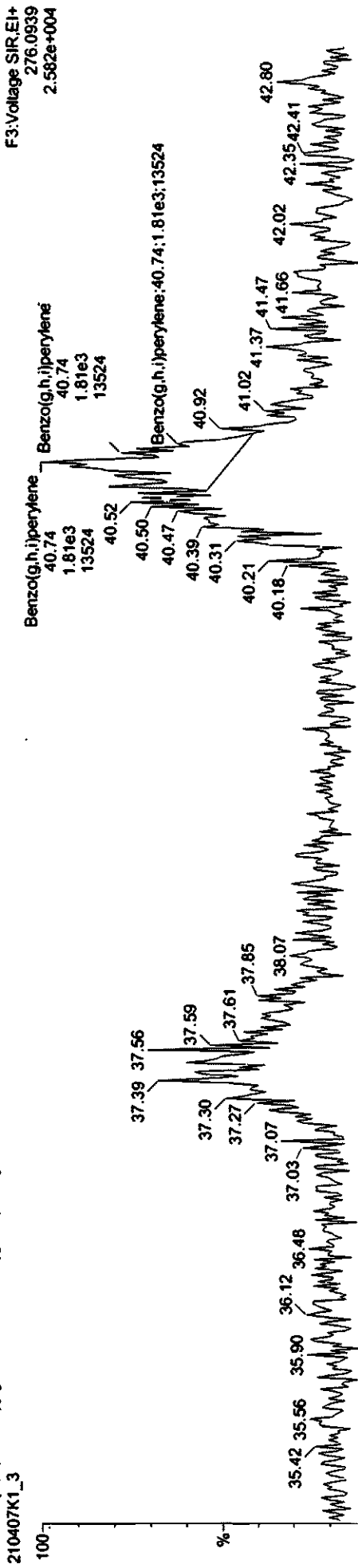


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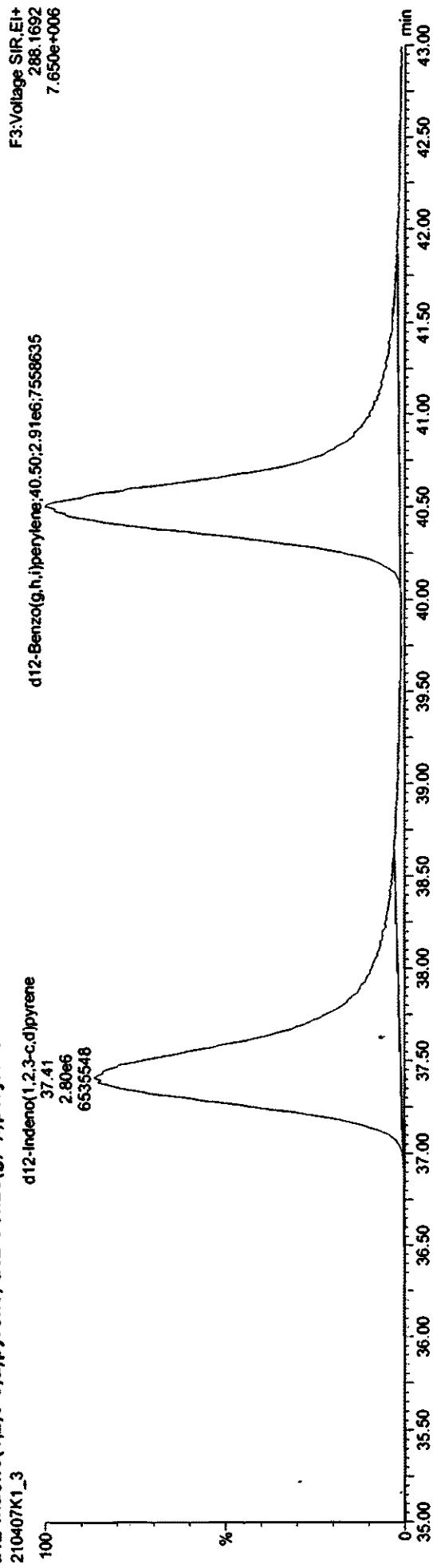
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Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene



Dataset: Untitled

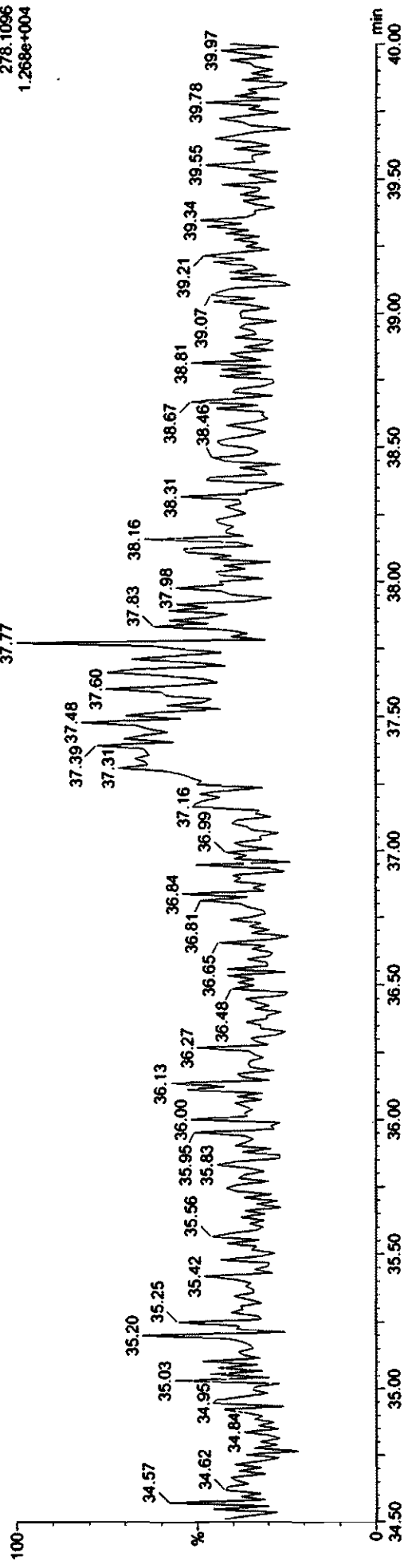
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Name: 210407K1_3, Date: 07-Apr-2021, Time: 17:48:57, ID: 2103102-01@500X 21-0883 Inlet 1 1, Description: 21-0883 Inlet 1

Dibenz(a,h)anthracene

210407K1_3

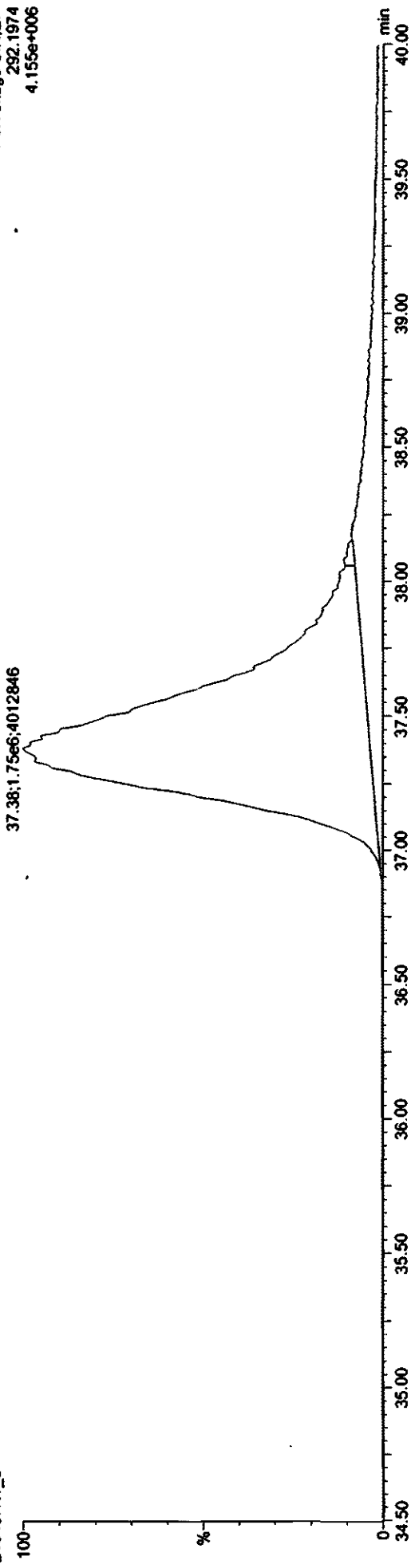
F3:Voltage SIR,EI+
278.1096
1.268e+004



d14-Dibenz(a,h)anthracene

210407K1_3

F3:Voltage SIR,EI+
292.1974
4.155e+006



Quantify Sample Summary Report
Vista Analytical Laboratory

HC 4-7-2021

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-19.qld

Last Altered: Wednesday, April 07, 2021 10:32:09 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:33:01 AM Pacific Daylight Time

TS, not 10:1

07/04/08/2021

Handwritten note

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02-21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

| # | Name | Resp | (S Resp) | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R... | Conc. | %Rec | DL |
|----|--------------------------|--------|----------|--------|-------|---------|-------|----------|-------|------------|-------------|--------|--------|
| 1 | Naphthalene | 2.25e6 | 7.80e5 | 1.16 | 1.000 | 10.30 | 10.34 | 1.006 | 1.010 | NO | 19700 SAT * | | 548 |
| 2 | Naphthalene-2nd | 2.51e6 | 7.80e5 | 0.128 | 1.000 | 10.30 | 10.25 | 1.006 | 1.001 | NO | 5640 * X | | 9650 |
| 3 | 2-Methylnaphthalene | 1.54e8 | 6.35e5 | 1.38 | 1.000 | 11.66 | 11.81 | 0.794 | 0.805 | YES | 36200 SAT X | | 343 |
| 4 | Acenaphthylene | 5.65e6 | 6.25e5 | 1.12 | 1.000 | 14.59 | 14.58 | 1.003 | 1.002 | NO | 1620 X | | 1060 |
| 5 | Acenaphthene | 3.04e7 | 6.35e5 | 1.10 | 1.000 | 14.76 | 14.78 | 1.006 | 1.007 | NO | 8690 E X | | 340 |
| 6 | Fluorene | 3.16e7 | 8.74e5 | 1.15 | 1.000 | 15.97 | 15.97 | 1.006 | 1.006 | NO | 6260 E X | | 299 |
| 7 | Phenanthrene | 3.84e7 | 5.24e5 | 1.19 | 1.000 | 18.35 | 18.32 | 1.002 | 1.001 | NO | 42300 SAT X | | 789 |
| 8 | Phenanthrene-2nd | 8.28e6 | 5.24e5 | 0.0925 | 1.000 | 18.34 | 18.32 | 1.002 | 1.001 | NO | 34200 E X | | 2280 |
| 9 | Anthracene | 1.92e7 | 5.24e5 | 1.09 | 1.000 | 18.41 | 18.35 | 1.005 | 1.002 | NO | 6710 E X | | 861 |
| 10 | Fluoranthene | 3.82e6 | 2.87e6 | 1.10 | 1.000 | 20.37 | 20.36 | 1.002 | 1.002 | NO | 243 | | 12.7 |
| 11 | Pyrene | 9.62e6 | 2.87e6 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 560 E X | | 11.7 |
| 12 | Benz(a)anthracene | 1.48e5 | 2.69e6 | 0.961 | 1.000 | 23.16 | 23.17 | 1.003 | 1.003 | NO | 11.5 | | 2.82 |
| 13 | Chrysene | 1.08e6 | 2.89e6 | 0.852 | 1.000 | 23.37 | 23.38 | 1.003 | 1.004 | NO | 88.0 | | 2.81 |
| 14 | Benzo(b)fluoranthene | 1.93e5 | 4.78e6 | 1.10 | 1.000 | 26.94 | 26.92 | 1.005 | 1.005 | NO | 14.6 | | 0.130 |
| 15 | Benzo(k)fluoranthene | 3.91e4 | 5.25e6 | 1.04 | 1.000 | 27.03 | 27.01 | 1.004 | 1.004 | NO | 2.87 | | 0.150 |
| 16 | Benzo(e)pyrene | 8.18e5 | 5.25e6 | 0.911 | 1.000 | 28.72 | 28.72 | 1.067 | 1.067 | NO | 68.3 | | 0.171 |
| 17 | Benzo(a)pyrene | 1.88e5 | 4.65e6 | 1.02 | 1.000 | 28.97 | 28.95 | 1.006 | 1.005 | NO | 16.0 | | 0.194 |
| 18 | Perylene | 1.33e5 | 4.65e6 | 0.987 | 1.000 | 29.71 | 29.65 | 1.031 | 1.029 | NO | 11.6 | | 0.200 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.31e5 | 3.77e6 | 0.915 | 1.000 | 36.70 | 36.70 | 1.007 | 1.007 | NO | 15.2 | | 0.503 |
| 20 | Benzo(g,h,i)perylene | 1.04e6 | 3.68e6 | 0.940 | 1.000 | 40.12 | 40.03 | 1.009 | 1.007 | NO | 120 | | 0.517 |
| 21 | Dibenz(a,h)anthracene | 3.31e6 | 0.948 | 1.000 | 1.000 | 36.60 | | 1.011 | | YES | | | 0.433 |
| 22 | db-Naphthalene | 7.80e5 | 2.68e6 | 1.20 | 1.000 | 10.27 | 10.24 | 0.848 | 0.845 | NO | 48.4 | 27.2 * | 15.1 |
| 23 | db-Acenaphthylene | 6.25e5 | 2.68e6 | 0.905 | 1.000 | 14.54 | 14.55 | 1.201 | 1.202 | NO | 51.6 | 25.2 * | 91.0 |
| 24 | d10-Acenaphthene | 6.35e5 | 2.68e6 | 0.594 | 1.000 | 14.84 | 14.67 | 1.226 | 1.212 | YES | 79.7 | 39.9 * | 33.3 |
| 25 | d10-Fluorene | 8.74e5 | 2.68e6 | 0.563 | 1.000 | 16.10 | 15.88 | 1.330 | 1.312 | YES | 116 | 58.0 * | 46.6 |
| 26 | d10-Phenanthrene | 5.24e5 | 2.68e6 | 0.735 | 1.000 | 18.56 | 18.31 | 1.533 | 1.512 | YES | 53.1 | 26.6 * | 113 |
| 27 | d10-Fluoranthene | 2.87e6 | 2.68e6 | 1.29 | 1.000 | 20.33 | 20.32 | 0.977 | 0.976 | NO | 166 | 83.2 | 1.48 |
| 28 | d12-Benz(a)anthracene | 2.69e6 | 2.68e6 | 0.900 | 1.000 | 23.11 | 23.10 | 1.110 | 1.110 | NO | 223 | 111 | 1.61 |
| 29 | d12-Chrysene | 2.89e6 | 2.68e6 | 1.02 | 1.000 | 23.30 | 23.29 | 1.120 | 1.119 | NO | 211 | 106 | 1.42 |
| 30 | d12-Benzo(b)fluoranthene | 4.78e6 | 2.60e6 | 1.18 | 1.000 | 26.76 | 26.80 | 0.907 | 0.909 | NO | 312 | 77.9 | 0.110 |
| 31 | d12-Benzo(k)fluoranthene | 5.25e6 | 2.60e6 | 1.50 | 1.000 | 26.87 | 26.91 | 0.911 | 0.912 | NO | 269 | 67.3 | 0.0862 |

Quantify Sample Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-19.qld

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 Printed: Wednesday, April 07, 2021 10:33:01 AM Pacific Daylight Time

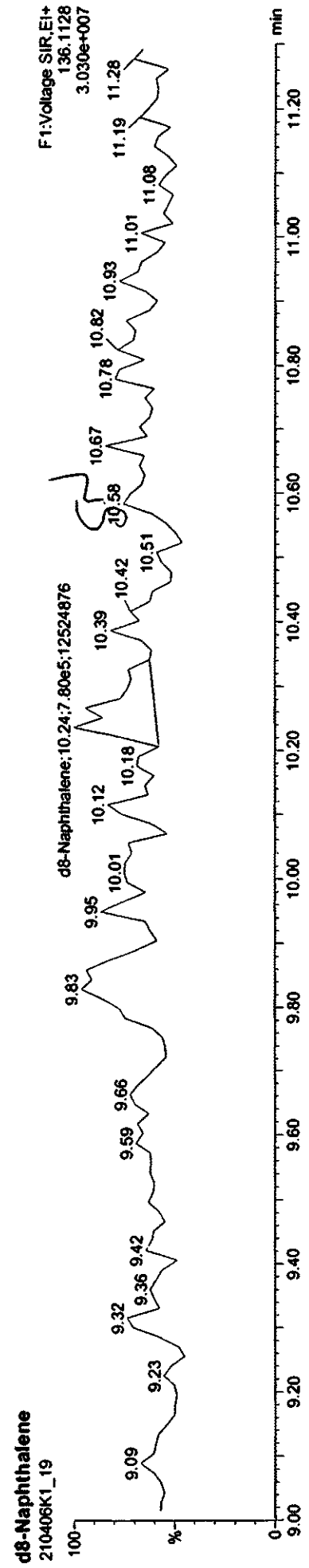
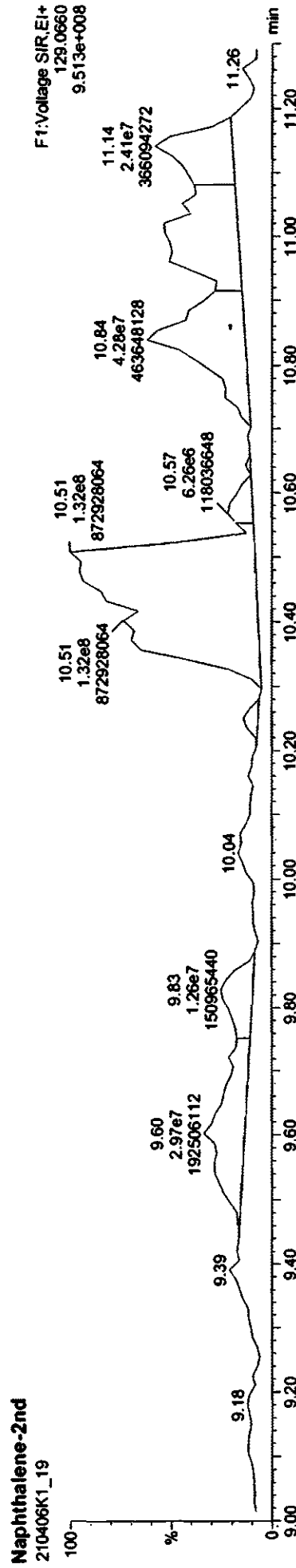
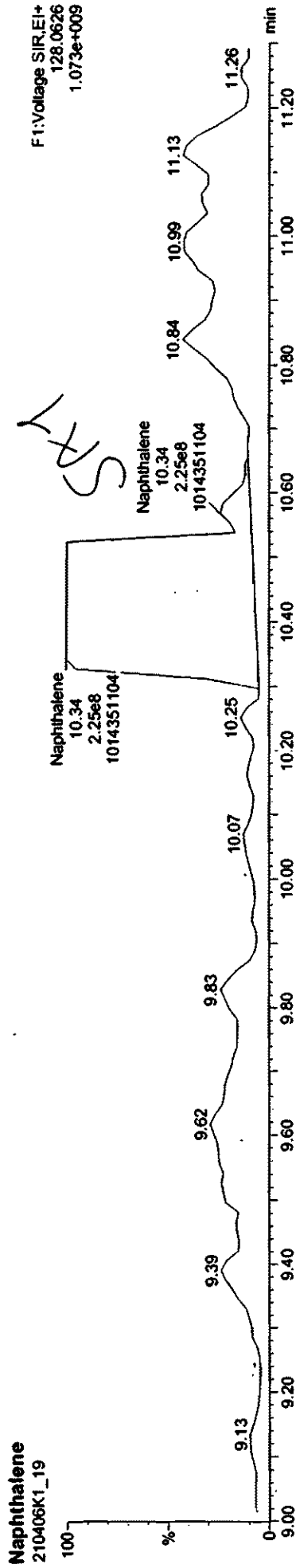
Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

| L # | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|-----|-----------------------------|--------|---------|-------|-------|---------|-------|---------|-------|---------|------|------|-------|
| 32 | d12-Benzof(a)pyrene | 4.65e6 | 2.60e6 | 1.24 | 1.000 | 28.76 | 28.80 | 0.975 | 0.977 | NO | 289 | 72.3 | 0.105 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 3.77e6 | 2.60e6 | 1.02 | 1.000 | 36.78 | 36.45 | 1.247 | 1.236 | YES | 285 | 71.3 | 0.188 |
| 34 | d12-Benzof(g,h,i)perylene | 3.68e6 | 2.60e6 | 1.00 | 1.000 | 40.18 | 39.74 | 1.362 | 1.348 | YES | 282 | 70.5 | 0.190 |
| 35 | d14-Dibenz(a,h)anthracene | 3.31e6 | 2.60e6 | 0.765 | 1.000 | 36.55 | 36.19 | 1.239 | 1.227 | YES | 333 | 83.2 | 0.164 |
| 36 | d10-Anthracene | 8.94e5 | 2.60e6 | 0.989 | 1.000 | 18.65 | 18.37 | 1.541 | 1.517 | YES | 69.7 | 34.8 | 234 |
| 37 | d14-Terphenyl | 5.34e6 | 2.87e6 | 0.576 | 1.000 | 20.69 | 20.72 | 1.018 | 1.020 | NO | 647 | 129 | 0.464 |
| 38 | d12-Benzof(e)pyrene | 5.74e6 | 5.25e6 | 0.738 | 1.000 | 28.53 | 28.56 | 1.060 | 1.061 | NO | 592 | 118 | 0.156 |
| 39 | d10-1-Methylnaphthalene | 7.84e5 | 7.84e5 | 1.00 | 1.000 | 11.93 | 12.11 | 1.000 | 1.000 | YES | 200 | 100 | 145 |
| 40 | d10-Pyrene | 2.68e6 | 2.68e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 1.91 |
| 41 | d12-Perylene | 2.60e6 | 2.60e6 | 1.00 | 1.000 | 29.59 | 29.49 | 1.000 | 1.000 | NO | 200 | 100 | 0.129 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

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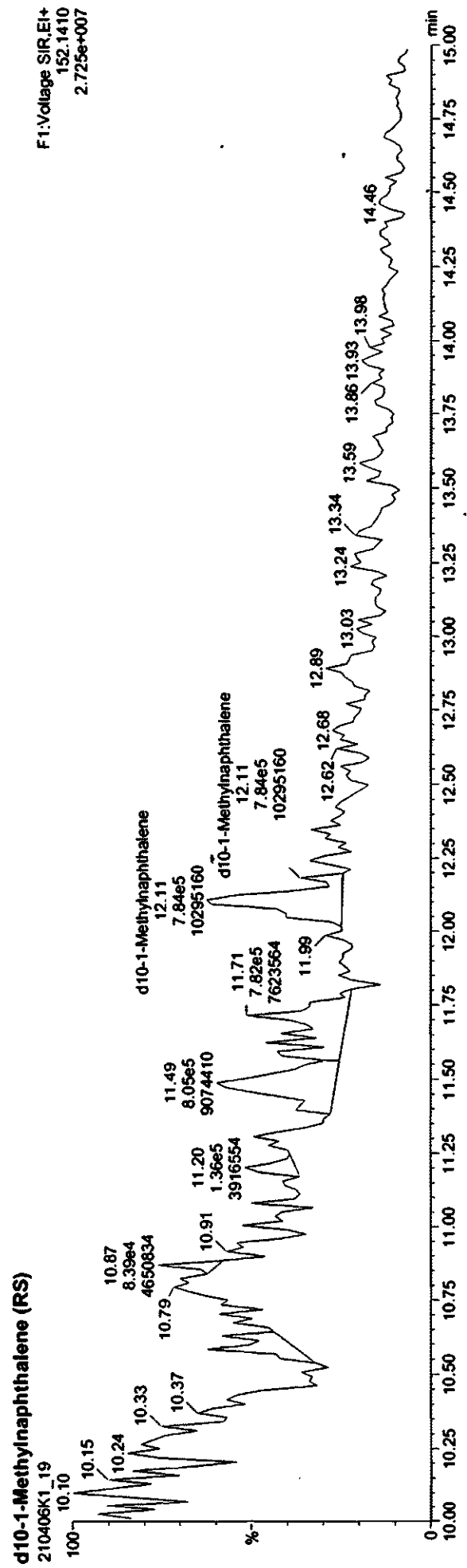
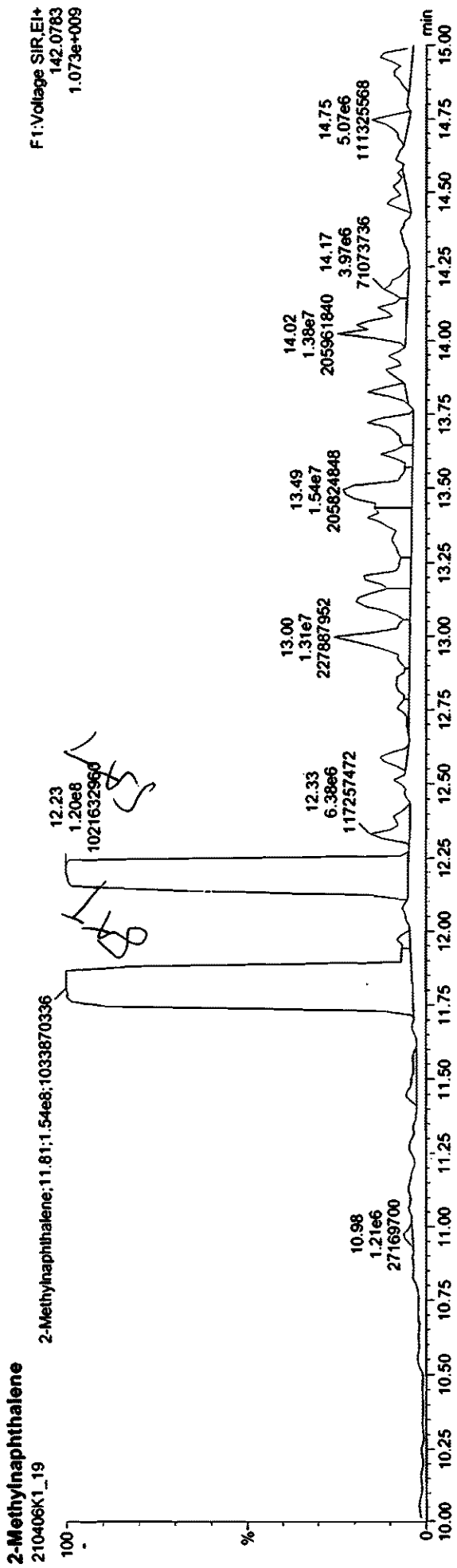


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

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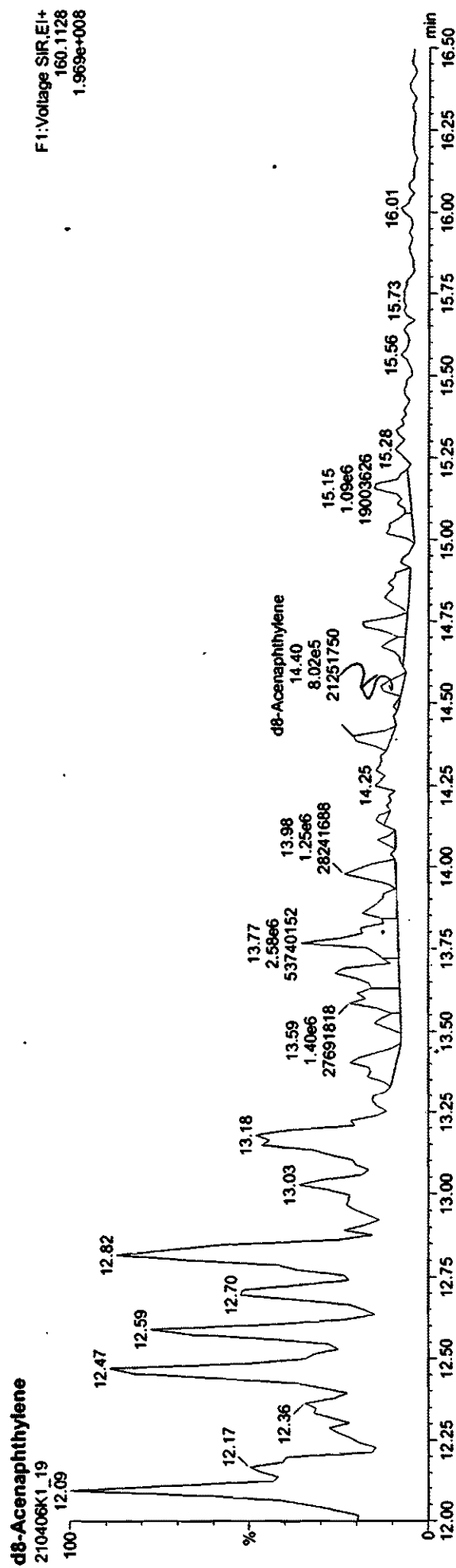
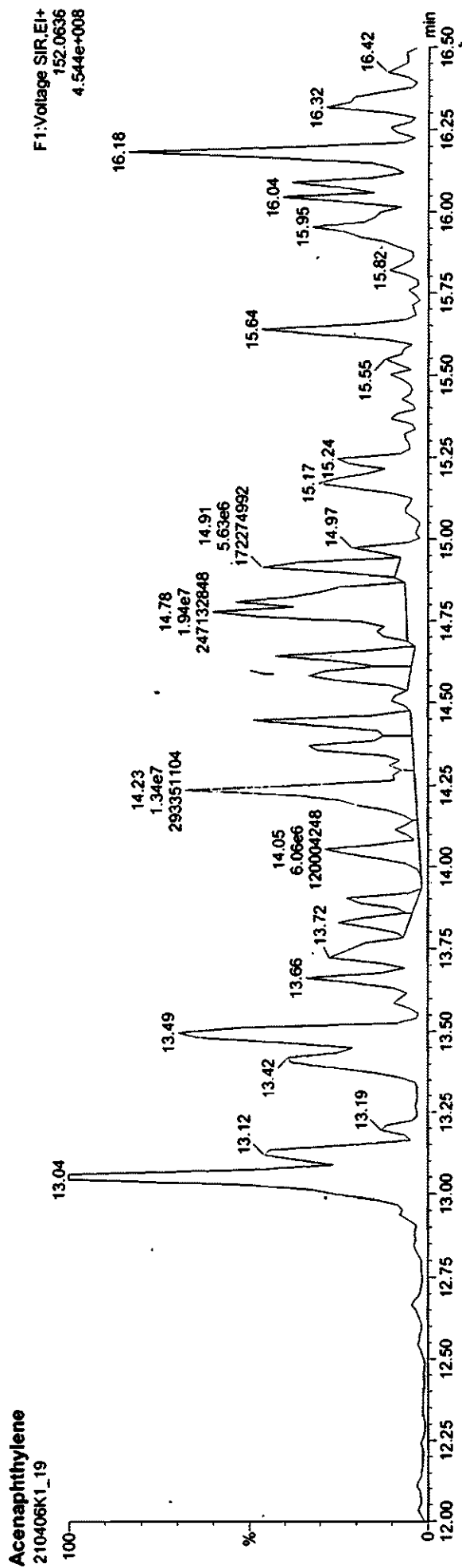
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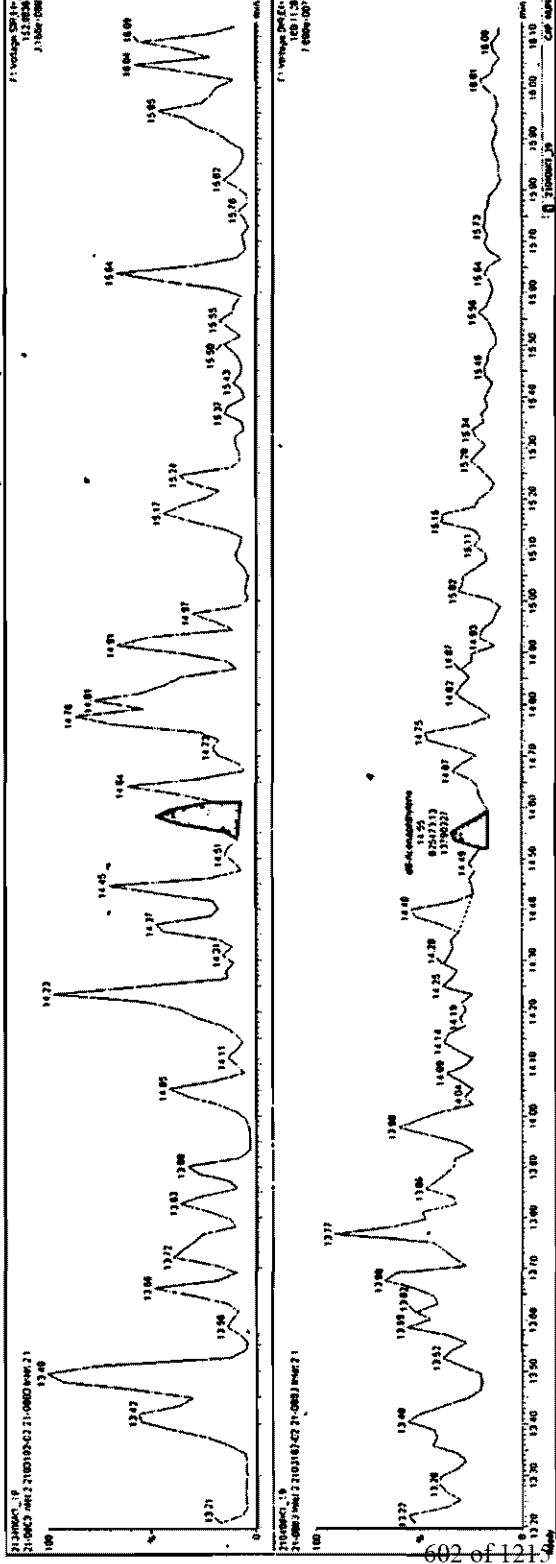
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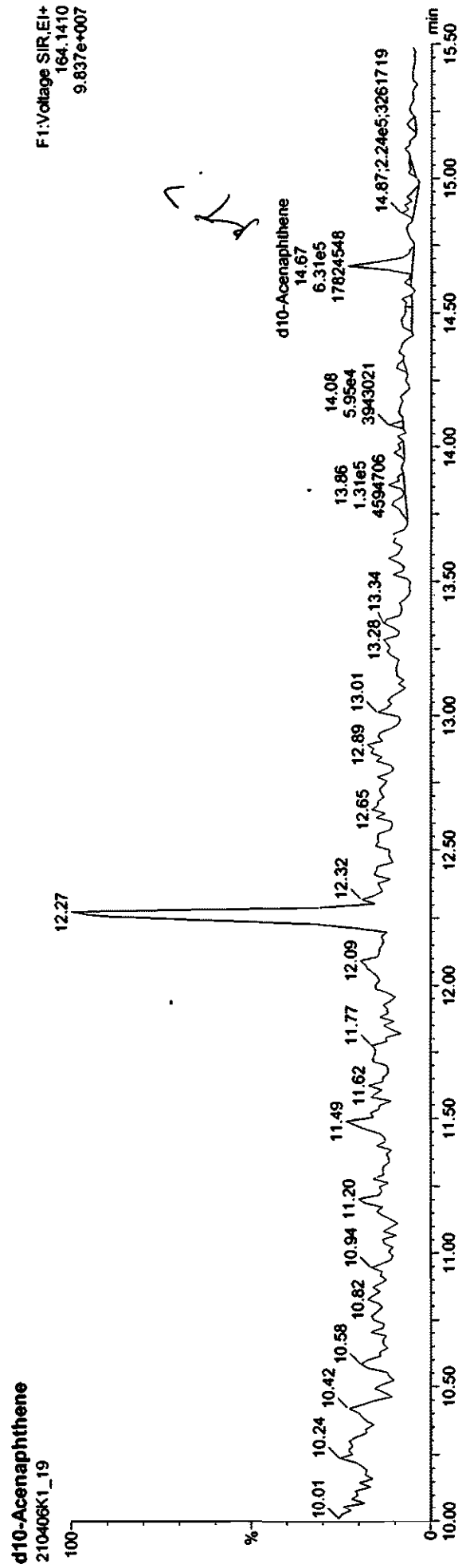
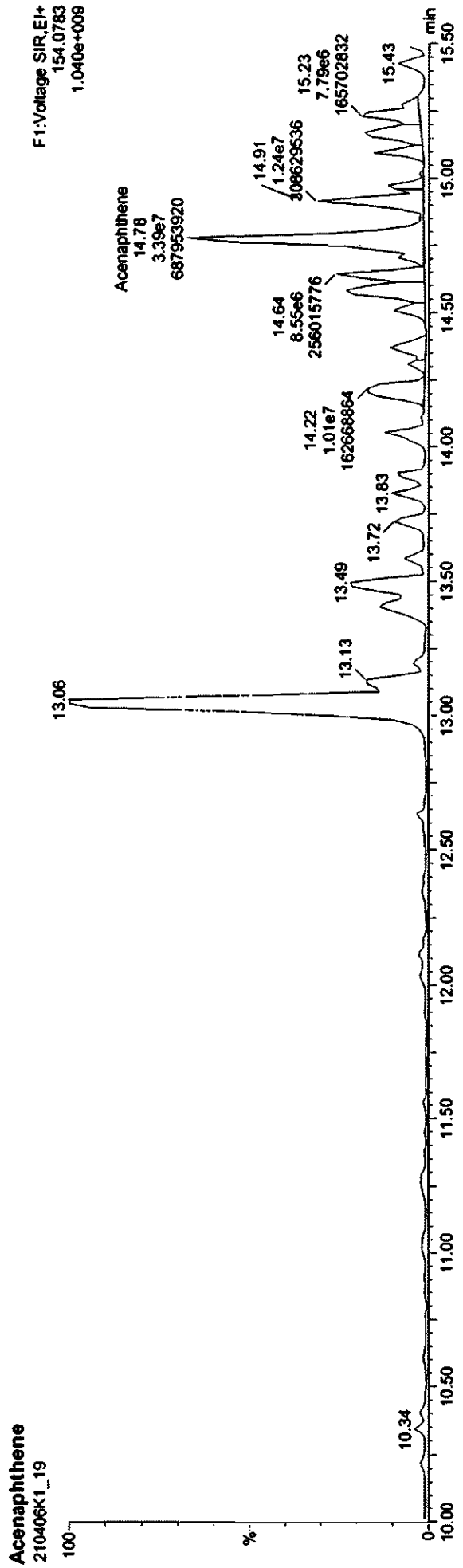
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|------|-------|------|--------|-------|-------|---------|--------|
| 1 | 13.27 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 2 | 13.30 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 3 | 13.32 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 4 | 13.36 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 5 | 13.40 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 6 | 13.44 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 7 | 13.48 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 8 | 13.52 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 9 | 13.56 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 10 | 13.60 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 11 | 13.64 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 12 | 13.68 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 13 | 13.72 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 14 | 13.76 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 15 | 13.80 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 16 | 13.84 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 17 | 13.88 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 18 | 13.92 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 19 | 13.96 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 20 | 14.00 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 21 | 14.04 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 22 | 14.08 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 23 | 14.12 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 24 | 14.16 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 25 | 14.20 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 26 | 14.24 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 27 | 14.28 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 28 | 14.32 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 29 | 14.36 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 30 | 14.40 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 31 | 14.44 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 32 | 14.48 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 33 | 14.52 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 34 | 14.56 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 35 | 14.60 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 36 | 14.64 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 37 | 14.68 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 38 | 14.72 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 39 | 14.76 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 40 | 14.80 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 41 | 14.84 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 42 | 14.88 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 43 | 14.92 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 44 | 14.96 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 45 | 15.00 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 46 | 15.04 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 47 | 15.08 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 48 | 15.12 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 49 | 15.16 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 50 | 15.20 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 51 | 15.24 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 52 | 15.28 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 53 | 15.32 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 54 | 15.36 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 55 | 15.40 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 56 | 15.44 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 57 | 15.48 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 58 | 15.52 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 59 | 15.56 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 60 | 15.60 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 61 | 15.64 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 62 | 15.68 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 63 | 15.72 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 64 | 15.76 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 65 | 15.80 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 66 | 15.84 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 67 | 15.88 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 68 | 15.92 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 69 | 15.96 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 70 | 16.00 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 71 | 16.04 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 72 | 16.08 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 73 | 16.12 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 74 | 16.16 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 75 | 16.20 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 76 | 16.24 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 77 | 16.28 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 78 | 16.32 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 79 | 16.36 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 80 | 16.40 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 81 | 16.44 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 82 | 16.48 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 83 | 16.52 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 84 | 16.56 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 85 | 16.60 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 86 | 16.64 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 87 | 16.68 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 88 | 16.72 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 89 | 16.76 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 90 | 16.80 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 91 | 16.84 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 92 | 16.88 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 93 | 16.92 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 94 | 16.96 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 95 | 17.00 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 96 | 17.04 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 97 | 17.08 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 98 | 17.12 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 99 | 17.16 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |
| 100 | 17.20 | 1000 | 100 | 10.00 | 0.01 | 0.01 | 0.01 |



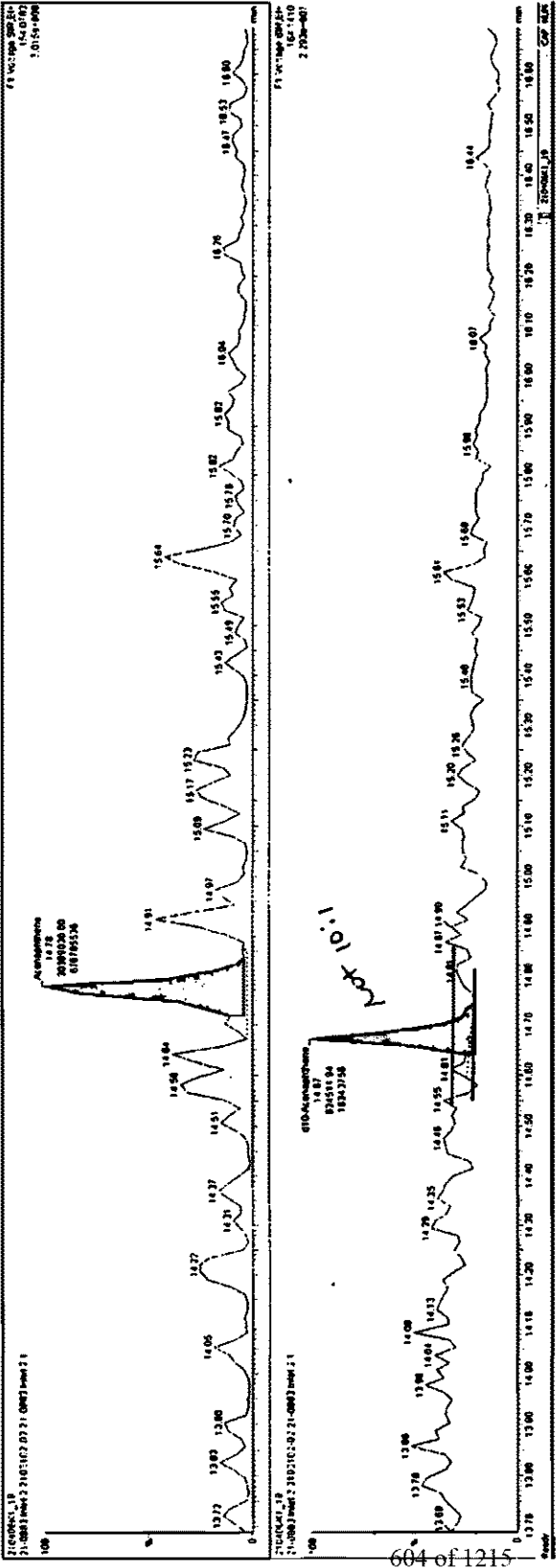
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



| Retention Time (min) | Peak Label | Area | Height | Width | Height/Width | Area/Height | Area/Width |
|----------------------|---------------|------------|--------|-------|--------------|-------------|------------|
| 13.72 | | | | | | | |
| 13.89 | | | | | | | |
| 13.80 | | | | | | | |
| 14.06 | | | | | | | |
| 14.27 | | | | | | | |
| 14.31 | | | | | | | |
| 14.51 | | | | | | | |
| 14.58 | | | | | | | |
| 14.64 | | | | | | | |
| 14.81 | Acetaminophen | 2090026.00 | 14.78 | 0.000 | 0.000 | 0.000 | 0.000 |
| 14.91 | | | | | | | |
| 15.02 | | | | | | | |
| 15.17 | | | | | | | |
| 15.22 | | | | | | | |
| 15.43 | | | | | | | |
| 15.48 | | | | | | | |
| 15.55 | | | | | | | |
| 15.64 | | | | | | | |
| 15.87 | | | | | | | |
| 16.04 | | | | | | | |
| 16.26 | | | | | | | |
| 16.41 | | | | | | | |
| 16.53 | | | | | | | |
| 16.60 | | | | | | | |
| 16.78 | | | | | | | |
| 16.81 | | | | | | | |
| 16.84 | | | | | | | |
| 16.87 | | | | | | | |
| 17.00 | | | | | | | |
| 17.06 | | | | | | | |
| 17.30 | | | | | | | |
| 17.38 | | | | | | | |
| 17.60 | | | | | | | |
| 17.76 | | | | | | | |
| 17.88 | | | | | | | |
| 18.00 | | | | | | | |
| 18.06 | | | | | | | |
| 18.13 | | | | | | | |
| 18.26 | | | | | | | |
| 18.35 | | | | | | | |
| 18.48 | | | | | | | |
| 18.55 | | | | | | | |
| 18.61 | | | | | | | |
| 18.81 | | | | | | | |
| 18.90 | | | | | | | |
| 19.00 | | | | | | | |
| 19.11 | | | | | | | |
| 19.20 | | | | | | | |
| 19.26 | | | | | | | |
| 19.44 | | | | | | | |
| 19.58 | | | | | | | |
| 19.60 | | | | | | | |
| 19.70 | | | | | | | |
| 19.80 | | | | | | | |
| 19.90 | | | | | | | |
| 20.00 | | | | | | | |
| 20.10 | | | | | | | |
| 20.20 | | | | | | | |
| 20.30 | | | | | | | |
| 20.40 | | | | | | | |
| 20.50 | | | | | | | |
| 20.60 | | | | | | | |
| 20.70 | | | | | | | |
| 20.80 | | | | | | | |
| 20.90 | | | | | | | |
| 21.00 | | | | | | | |

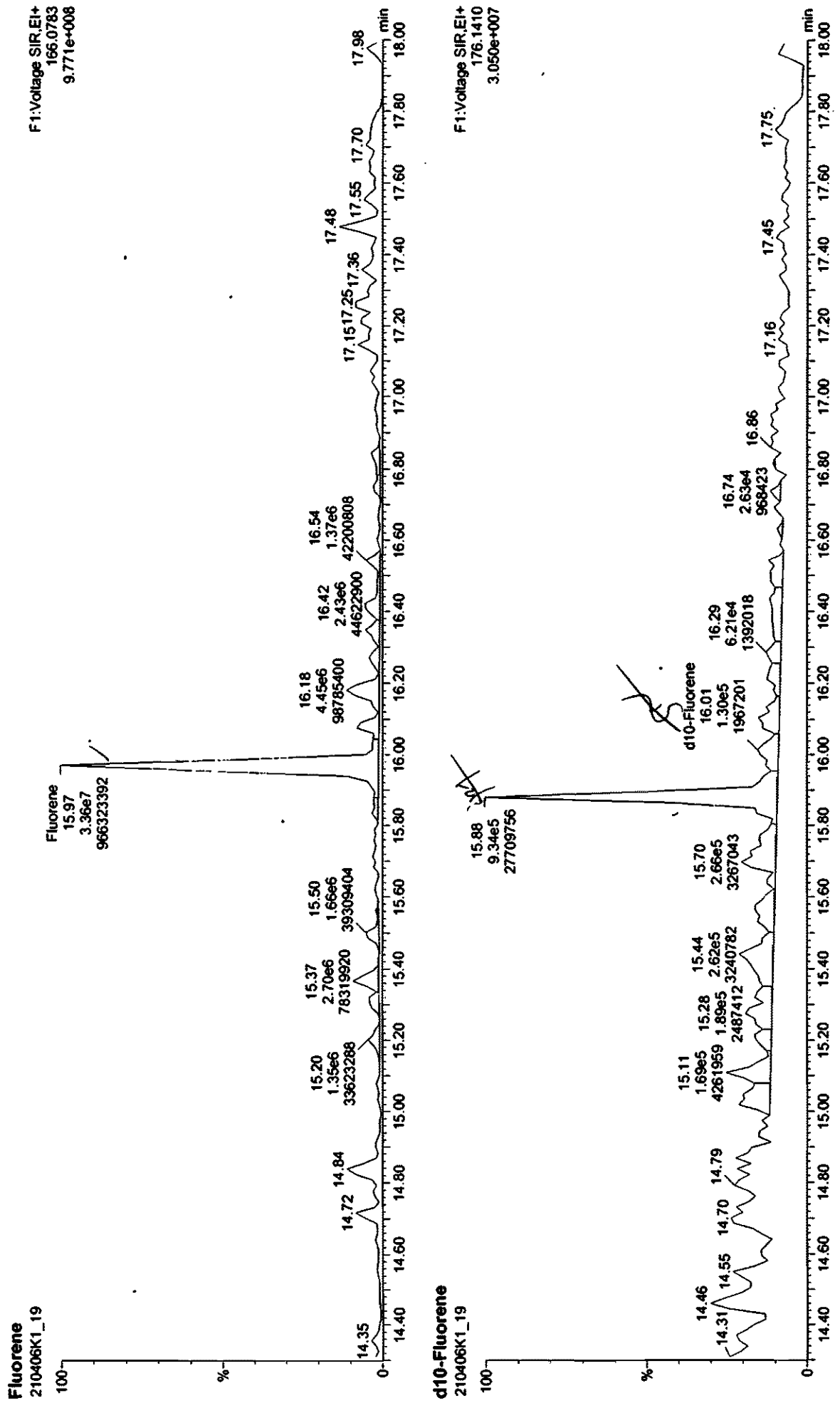


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



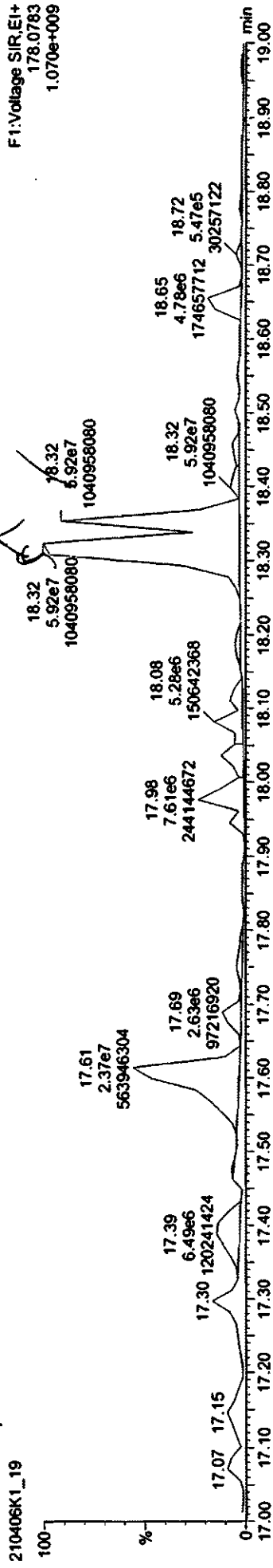
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

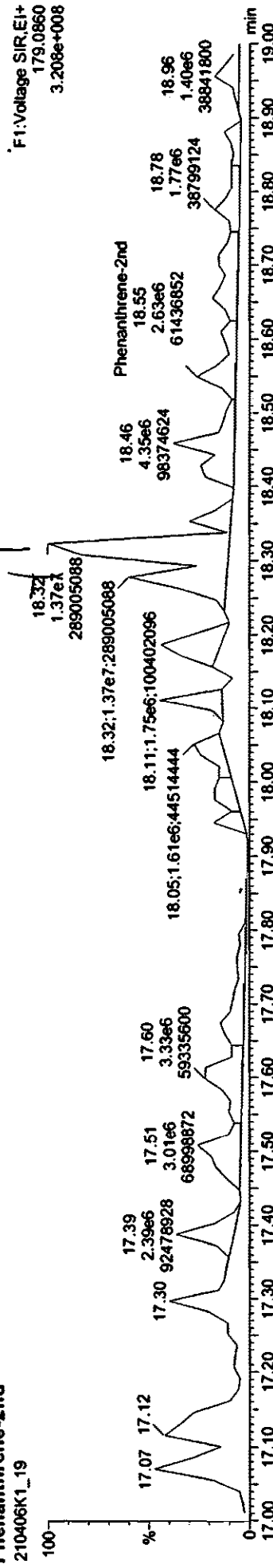
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

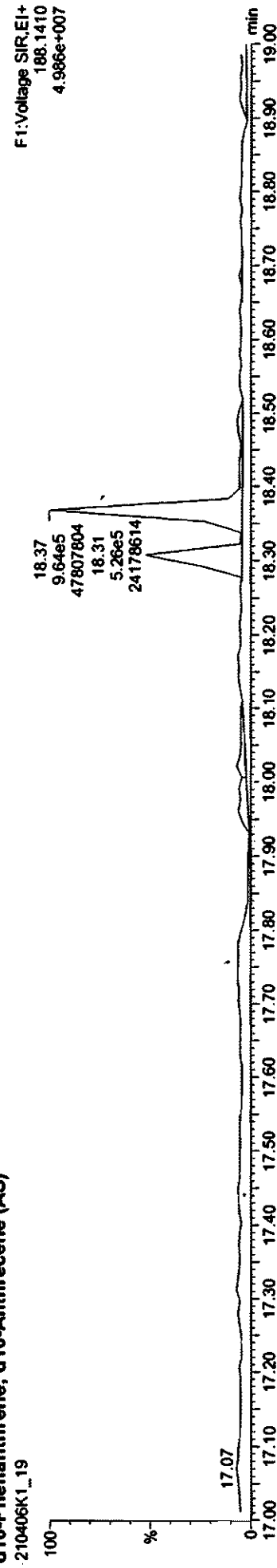
Phenanthrene; Anthracene



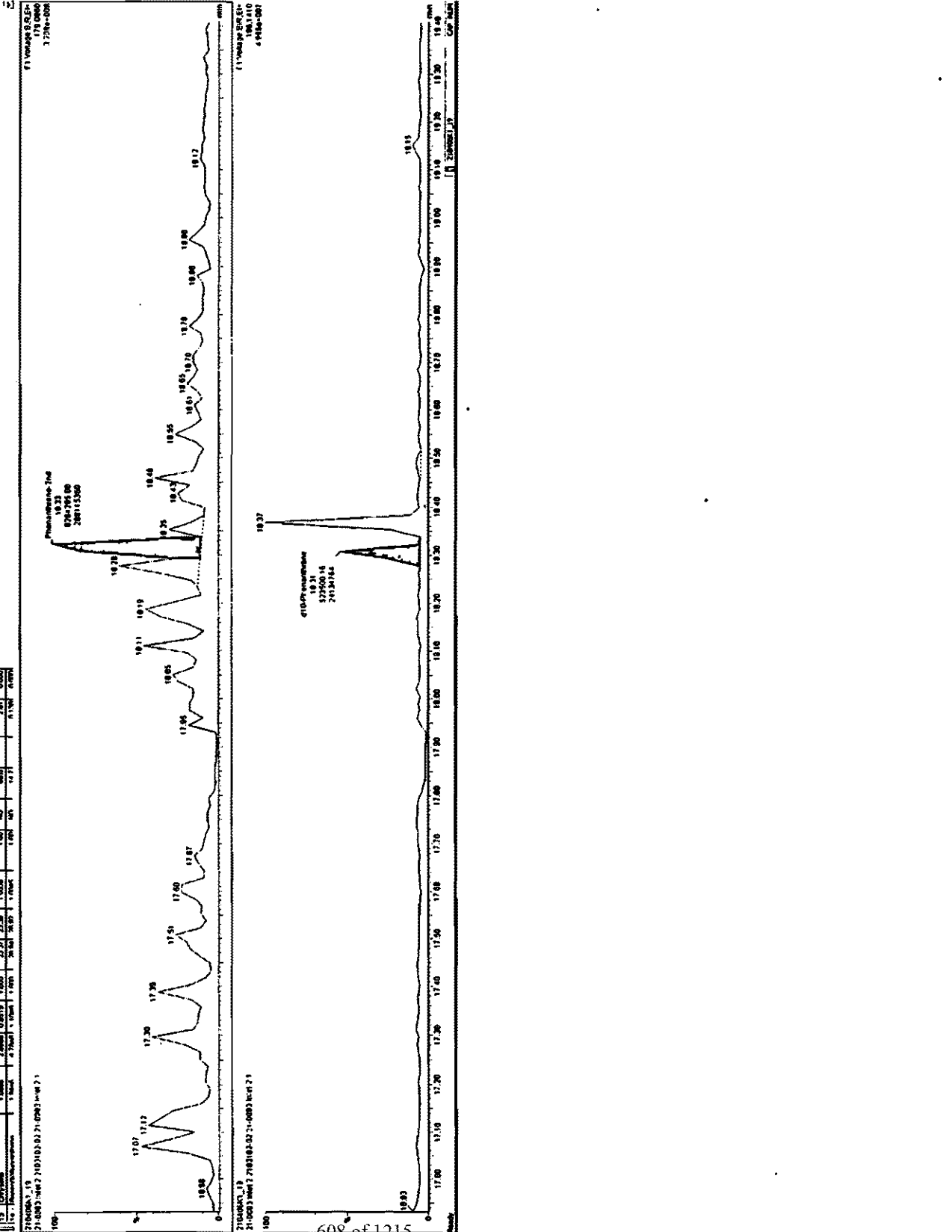
Phenanthrene-2nd



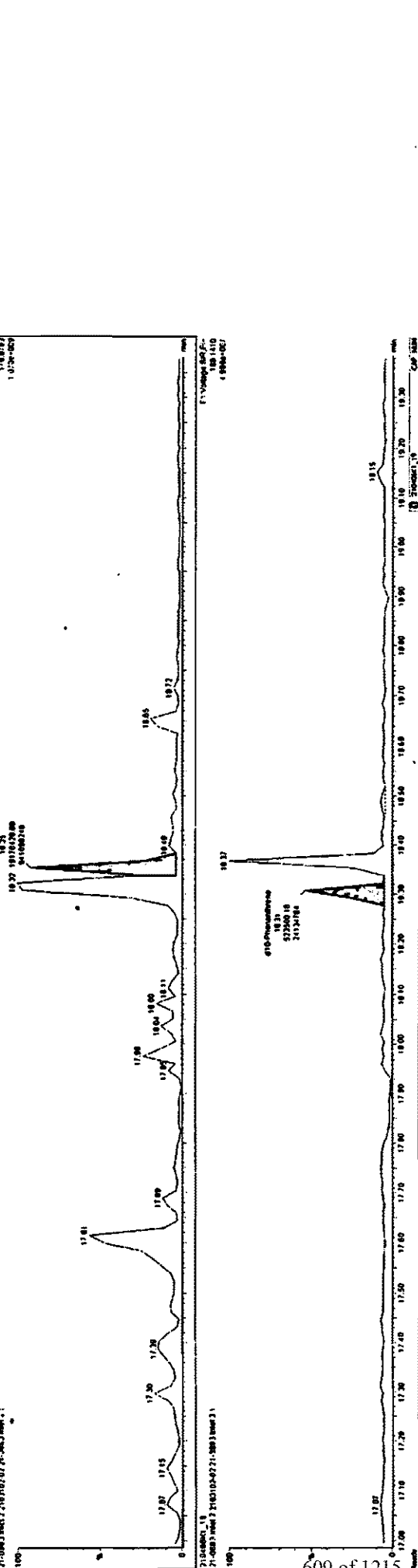
d10-Phenanthrene; d10-Anthracene (AS)



| Peak | Retention Time (min) | Area | Height | Width | Concentration (%) | Identification |
|------|----------------------|-------|--------|-------|-------------------|----------------|
| 1 | 17.07 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 2 | 17.30 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 3 | 17.36 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 4 | 17.60 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 5 | 17.87 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 6 | 18.06 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 7 | 18.11 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 8 | 18.19 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 9 | 18.25 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 10 | 18.48 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 11 | 18.51 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 12 | 18.53 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 13 | 18.70 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 14 | 18.80 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 15 | 18.85 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 16 | 18.90 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 17 | 19.00 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 18 | 19.12 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 19 | 19.37 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 20 | 19.41 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |
| 21 | 19.46 | 15000 | 1000 | 0.10 | 0.05 | Phenacetin |



| Peak | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Height/Width |
|------|----------------------|------|--------|-------|--------------|-------------|--------------|
| 1 | 13.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 2 | 14.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 3 | 17.30 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 4 | 17.38 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 5 | 17.90 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 6 | 17.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 7 | 18.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 8 | 18.11 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 9 | 18.31 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 10 | 18.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 11 | 18.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 12 | 18.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 13 | 18.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14 | 18.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15 | 19.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16 | 19.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17 | 19.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 18 | 19.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 19 | 19.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 20 | 19.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 21 | 19.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 22 | 19.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 23 | 19.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 24 | 20.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 25 | 20.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 26 | 20.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 27 | 20.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 28 | 20.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 29 | 20.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 30 | 20.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 31 | 20.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 32 | 20.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 33 | 21.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 34 | 21.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 35 | 21.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 36 | 21.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 37 | 21.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 38 | 21.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 39 | 21.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 40 | 21.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 41 | 21.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 42 | 22.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 43 | 22.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 44 | 22.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 45 | 22.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 46 | 22.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 47 | 22.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 48 | 22.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 49 | 22.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 50 | 22.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 51 | 23.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 52 | 23.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 53 | 23.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 54 | 23.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 55 | 23.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 56 | 23.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 57 | 23.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 58 | 23.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 59 | 23.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 60 | 24.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 61 | 24.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 62 | 24.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 63 | 24.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 64 | 24.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 65 | 24.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 66 | 24.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 67 | 24.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 68 | 24.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 69 | 25.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 70 | 25.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 71 | 25.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 72 | 25.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 73 | 25.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 74 | 25.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 75 | 25.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 76 | 25.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 77 | 25.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 78 | 26.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 79 | 26.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 80 | 26.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 81 | 26.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 82 | 26.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 83 | 26.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 84 | 26.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 85 | 26.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 86 | 26.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 87 | 27.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 88 | 27.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 89 | 27.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 90 | 27.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 91 | 27.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 92 | 27.55 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 93 | 27.72 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 94 | 27.87 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 95 | 27.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 96 | 28.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 97 | 28.15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 98 | 28.25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 99 | 28.37 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 100 | 28.48 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |



Quantify Sample Report
Vista Analytical Laboratory

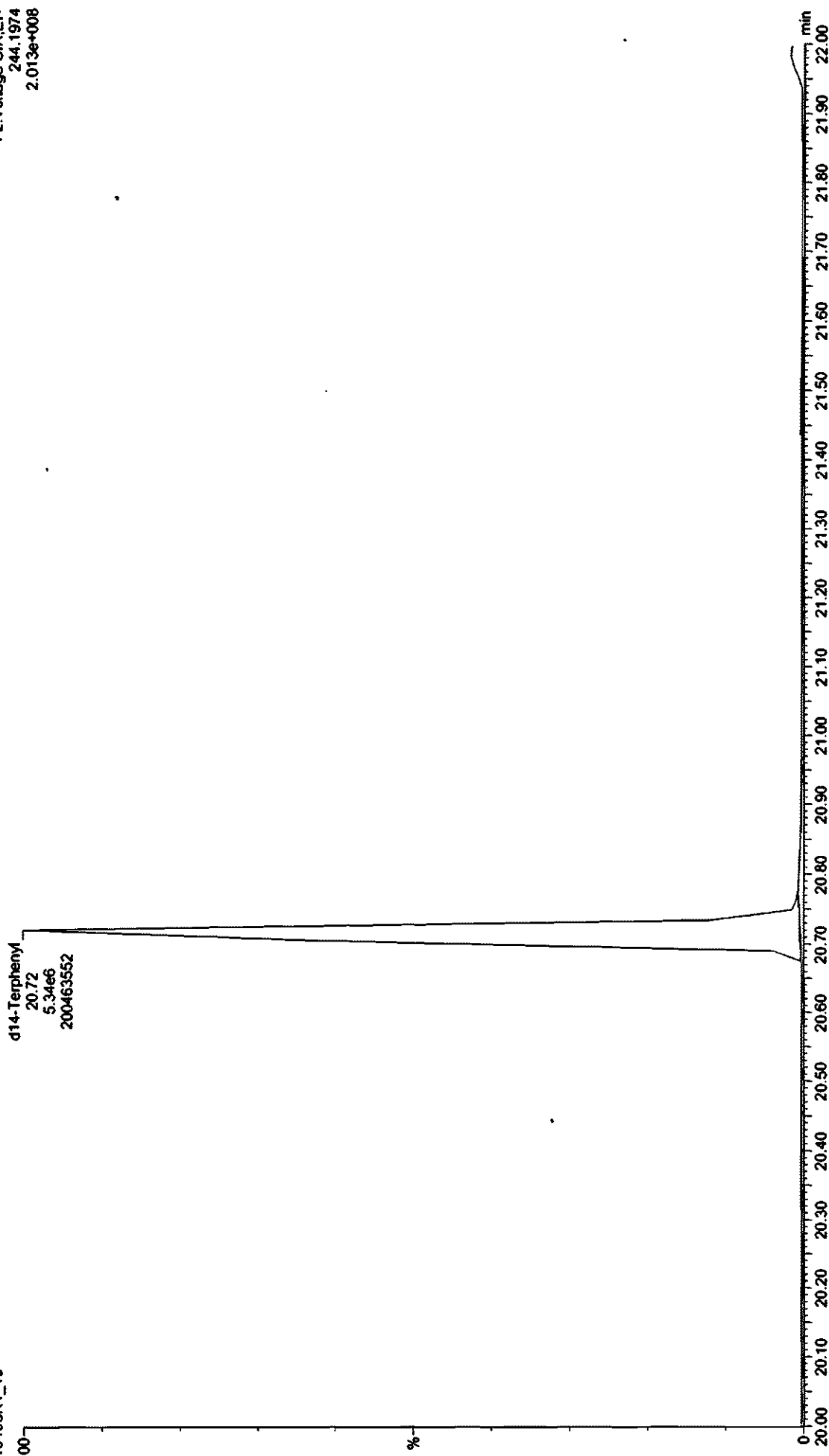
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

d14-Terphenyl (PS)
210406K1_19

F2:Voltage SIR,EI+
244.1974
2.013e+008



Quantify Sample Report
Vista Analytical Laboratory

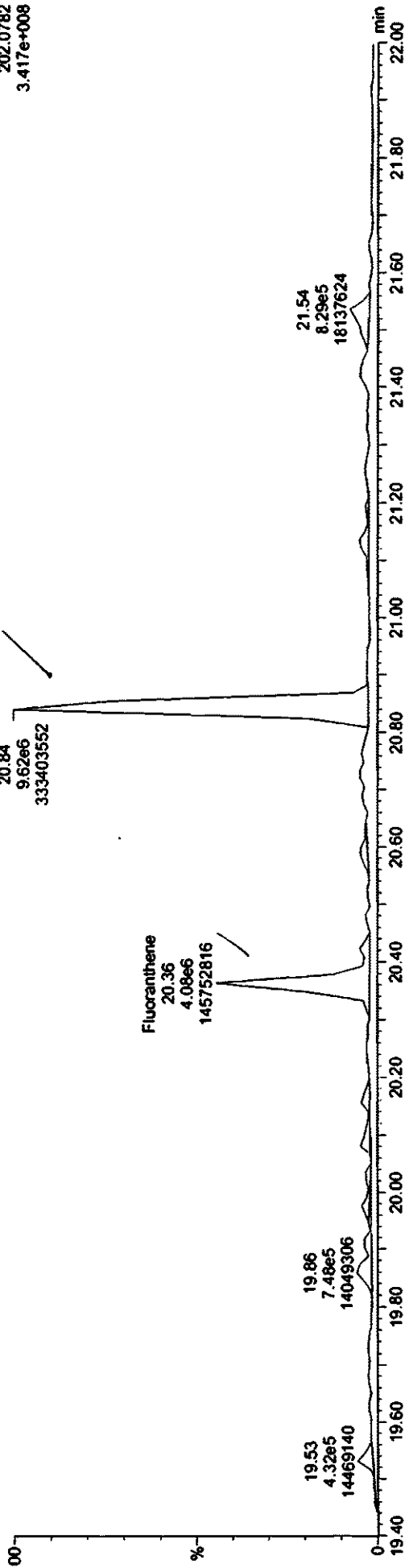
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

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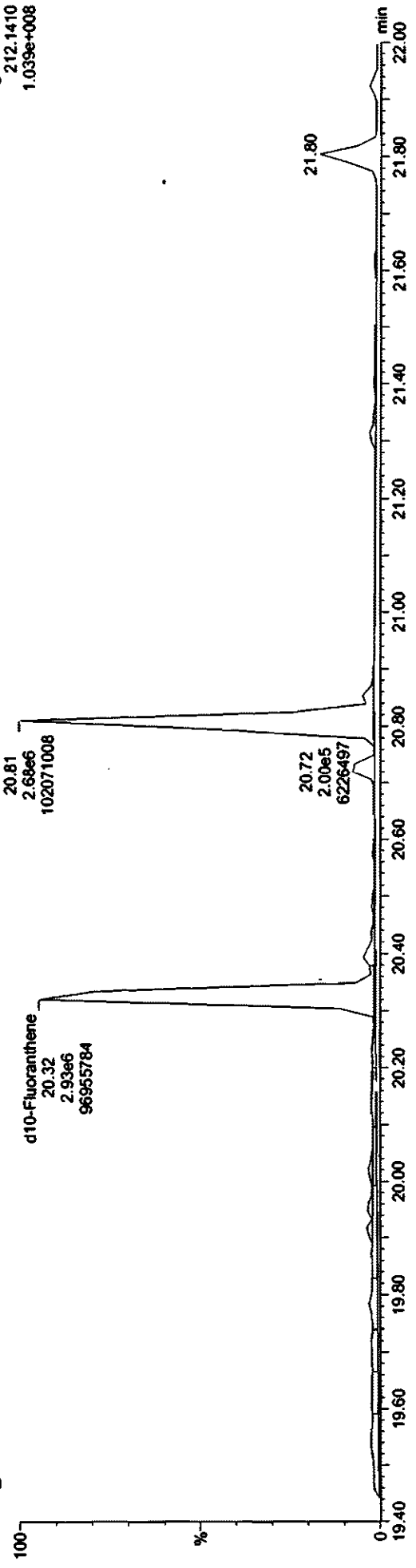
Fluoranthene; Pyrene
210406K1_19

F2:Voltage SIR.EI+
202.0782
3.417e+008



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR.EI+
212.1410
1.039e+008

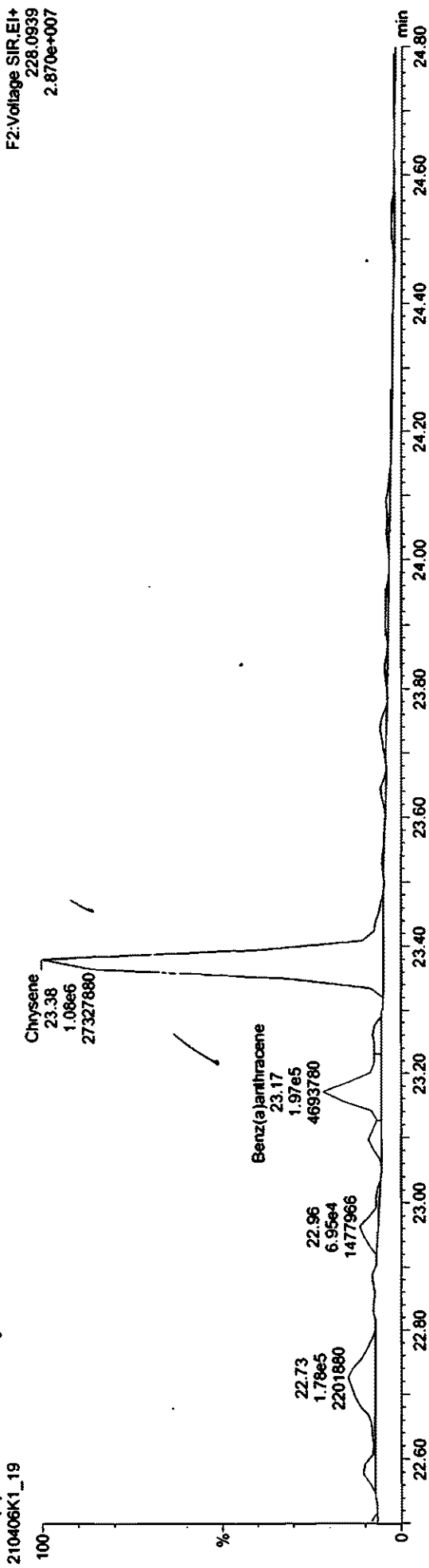


Dataset: Untitled

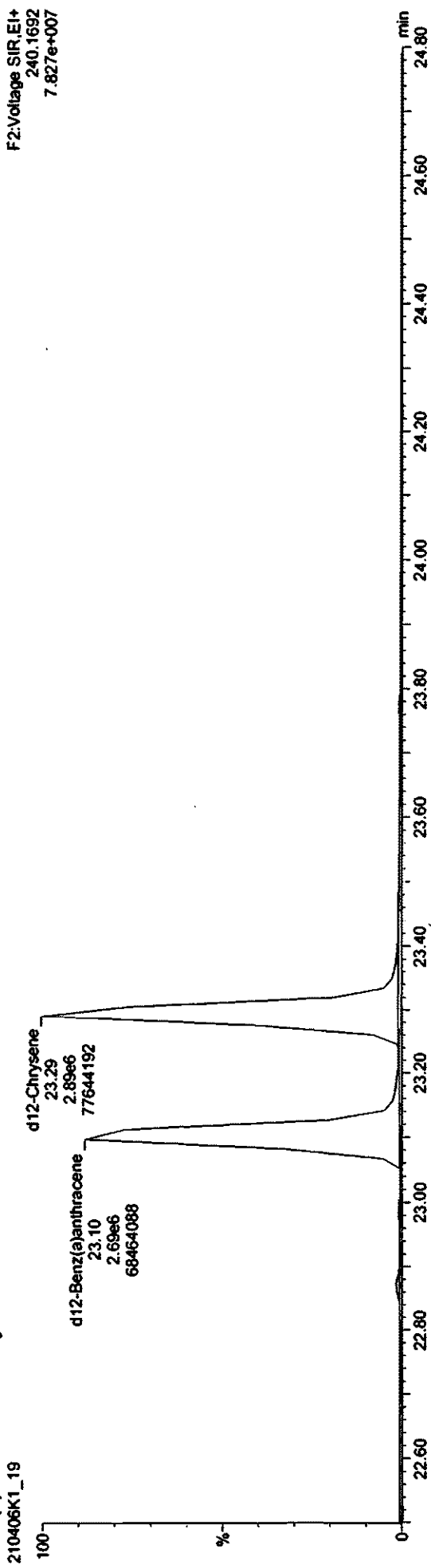
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Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0863 Inlet 2 1, Description: 21-0863 Inlet 2

Benz(a)Anthracene-Chrysene

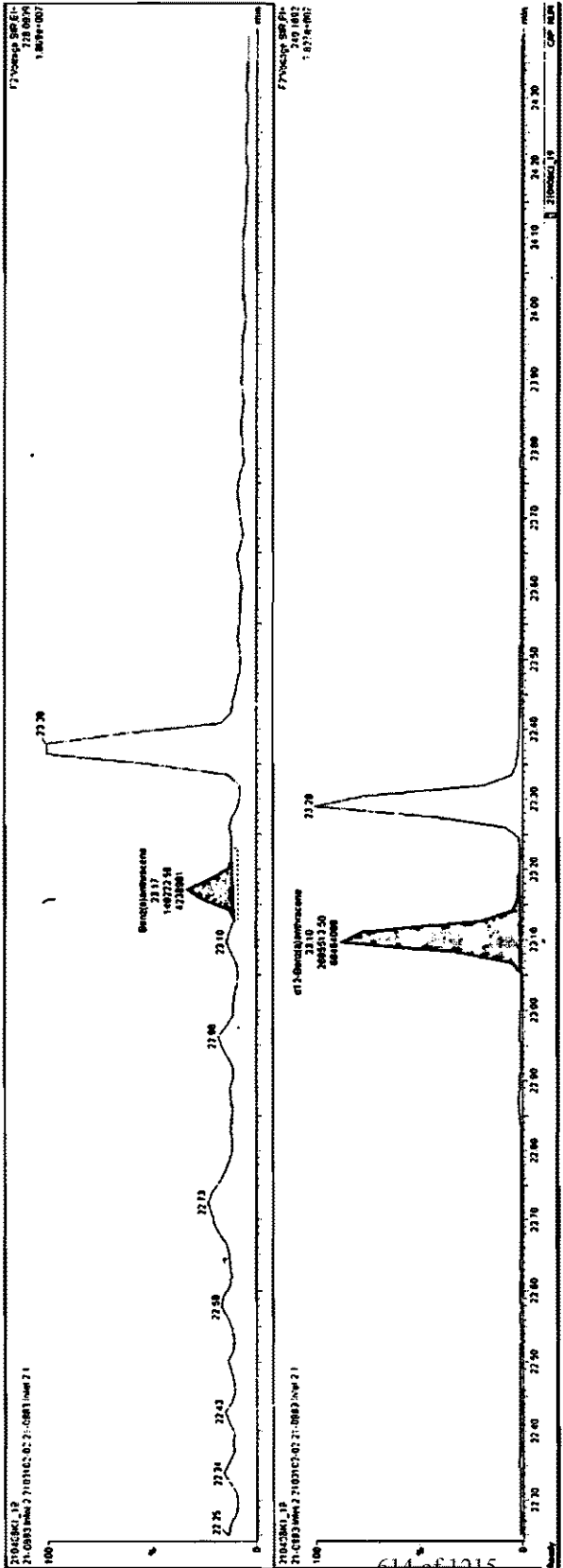


Benz(a)Anthracene-Chrysene-Iso



File Edit View Tools Windows Help
 Run Stop Pause Refresh Zoom In Zoom Out Full Screen Print Close All Save Open Recent Search Help

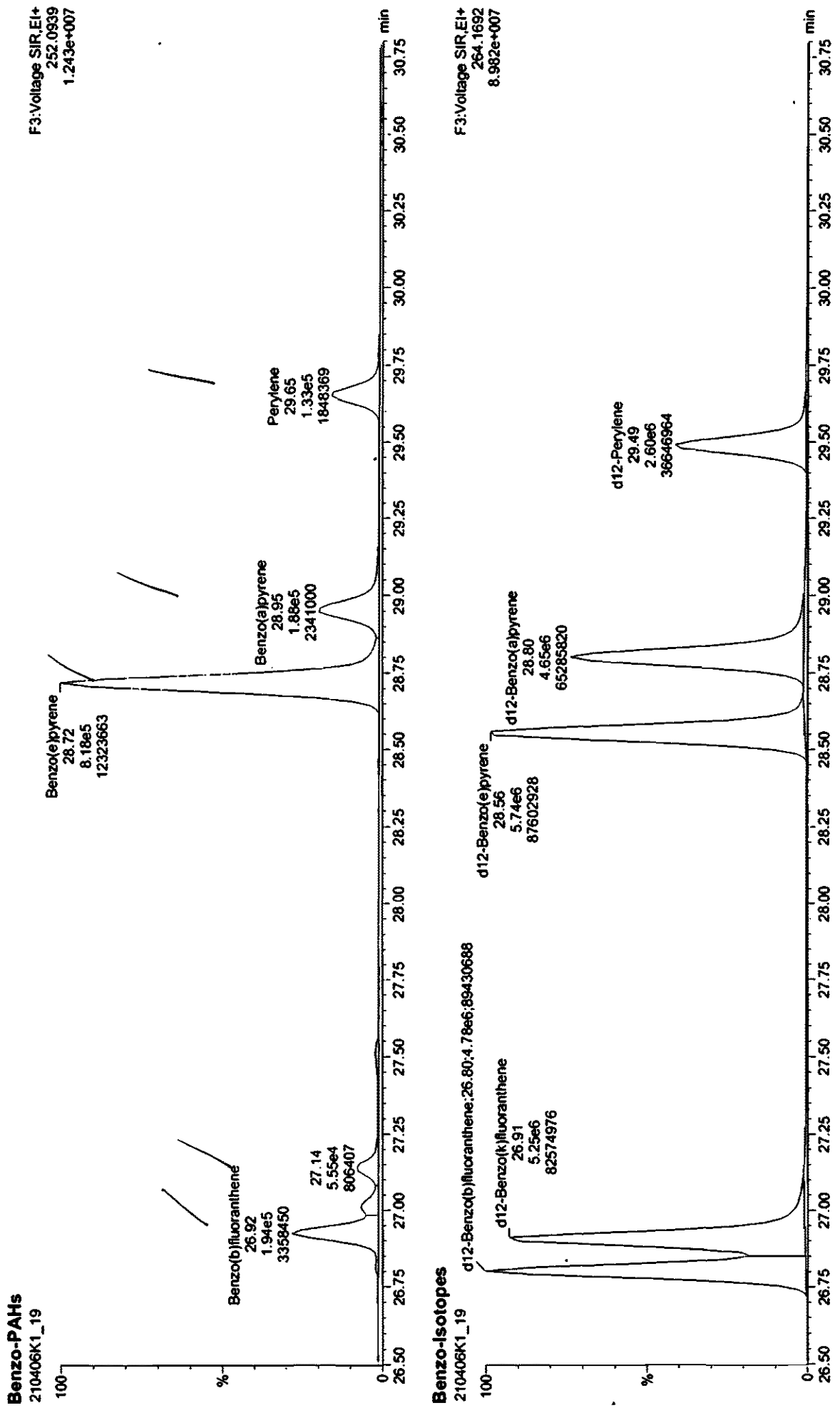
| Peak | RT | Area | Height | Width | Area% | Height% | Area% | Height% |
|------|-------|------|--------|-------|-------|---------|-------|---------|
| 1 | 22.25 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 2 | 22.34 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 3 | 22.43 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 4 | 22.50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 5 | 22.62 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 6 | 22.78 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 7 | 22.85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 8 | 22.95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 9 | 23.10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 10 | 23.15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 11 | 23.25 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 12 | 23.30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 13 | 23.40 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 14 | 23.50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 15 | 23.60 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 16 | 23.70 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 17 | 23.80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 18 | 23.90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 19 | 24.00 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 20 | 24.10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 21 | 24.20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 22 | 24.30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 23 | 24.40 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 24 | 24.50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 25 | 24.60 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 26 | 24.70 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 27 | 24.80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 28 | 24.90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 29 | 25.00 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

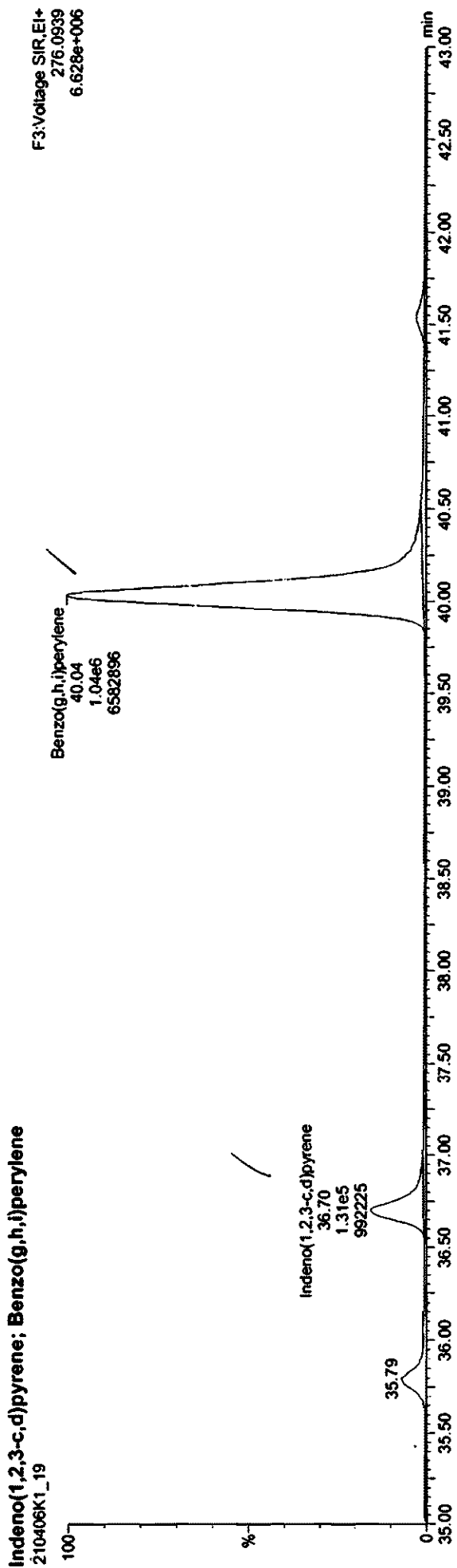


Quantify Sample Report
Vista Analytical Laboratory

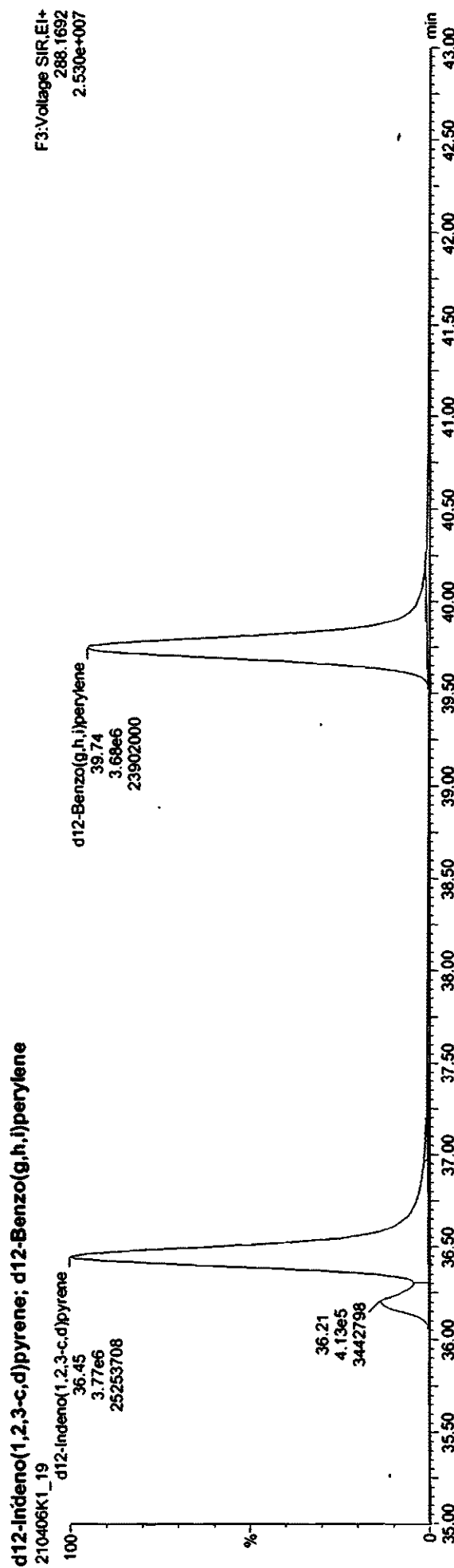
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



617 of 1215

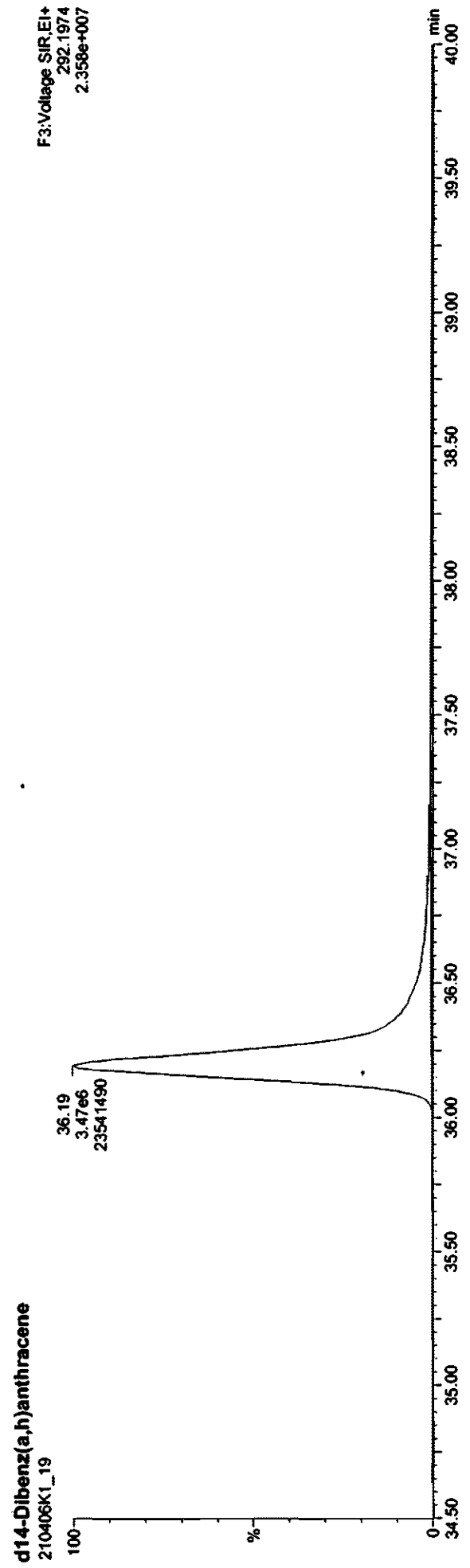
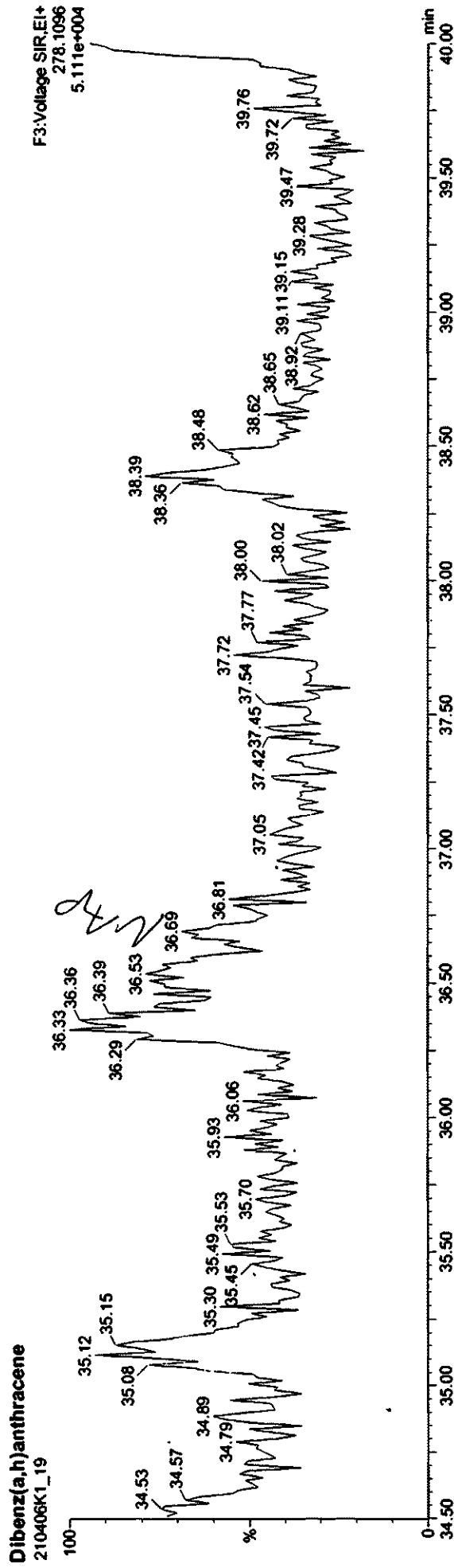


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_19, Date: 07-Apr-2021, Time: 01:17:50, ID: 2103102-02 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-8.qld

Last Altered: Wednesday, April 07, 2021 10:39:40 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:41:45 AM Pacific Daylight Time

Mr. Y. J. ...
C-7 04/09/2021

Ⓟ JS not 10:1

Method: U:\VG11.PRO\MethDB\IPAH-4-1-21.mdb 01 Apr 2021 13:23:22

Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

* see 500x dilution

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

| L# | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|----------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|-------|------|------|
| 1 | 4 Acenaphthylene | 1.25e6 | 1.61e5 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 1390 | * | 2050 |
| 2 | 5 Acenaphthene | 4.38e6 | 6.79e4 | 1.10 | 1.000 | 14.68 | 14.70 | 1.006 | 1.007 | NO | 11700 | | 1240 |
| 3 | 6 Fluorene | 3.25e6 | 7.19e4 | 1.15 | 1.000 | 15.92 | 15.92 | 1.006 | 1.006 | NO | 7830 | | 629 |
| 4 | 7 Phenanthrene | 7.56e6 | 9.21e4 | 1.19 | 1.000 | 18.32 | 18.29 | 1.002 | 1.001 | NO | 13800 | | 145 |
| 5 | 9 Anthracene | 3.37e6 | 9.21e4 | 1.09 | 1.000 | 18.38 | 18.32 | 1.005 | 1.003 | NO | 6710 | | 158 |
| 6 | 11 Pyrene | 5.43e5 | 1.67e5 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 544 | | 897 |
| 7 | 23 d8-Acenaphthylene | 1.61e5 | 1.48e5 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 241 | Ⓟ | 121 |
| 8 | 24 d10-Acenaphthene | 6.79e4 | 1.48e5 | 0.594 | 1.000 | 14.62 | 14.60 | 1.226 | 1.224 | NO | 155 | | 77.4 |
| 9 | 25 d10-Fluorene | 7.19e4 | 1.48e5 | 0.563 | 1.000 | 15.86 | 15.83 | 1.330 | 1.328 | NO | 173 | | 86.5 |
| 10 | 26 d10-Phenanthrene | 9.21e4 | 1.48e5 | 0.735 | 1.000 | 18.28 | 18.28 | 1.533 | 1.533 | NO | 170 | | 84.9 |
| 11 | 27 d10-Fluoranthene | 1.67e5 | 1.48e5 | 1.29 | 1.000 | 20.31 | 20.32 | 0.977 | 0.977 | NO | 176 | | 87.8 |
| 12 | 36 d10-Anthracene | 7.92e4 | 8.13e4 | 0.989 | 1.000 | 18.37 | 18.34 | 1.541 | 1.538 | NO | 197 | | 98.5 |
| 13 | 40 d10-Pyrene | 1.48e5 | 1.48e5 | 1.00 | 1.000 | 20.81 | 20.79 | 1.000 | 1.000 | NO | 200 | | 100 |
| 14 | 41 d12-Perylene | 8.13e4 | 8.13e4 | 1.00 | 1.000 | 29.59 | 29.49 | 1.000 | 1.000 | NO | 200 | | 100 |

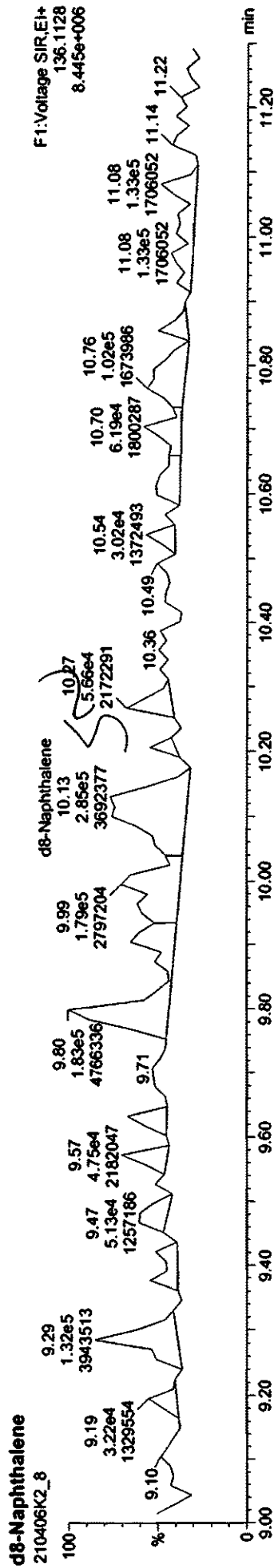
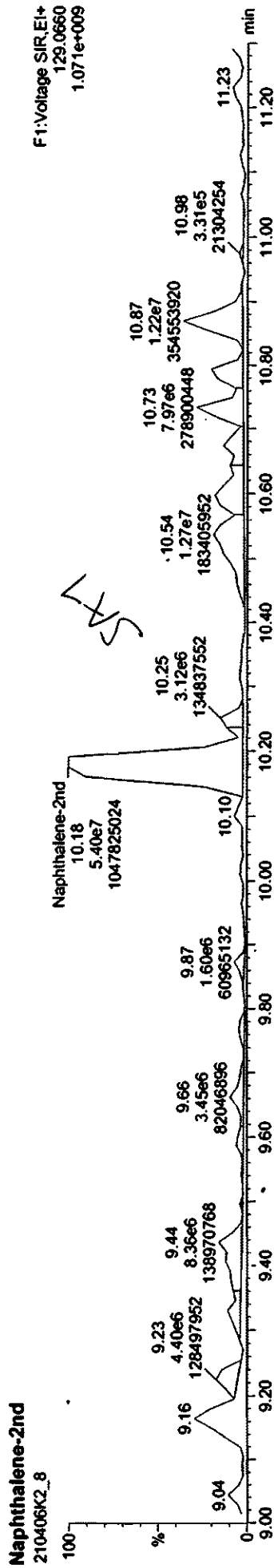
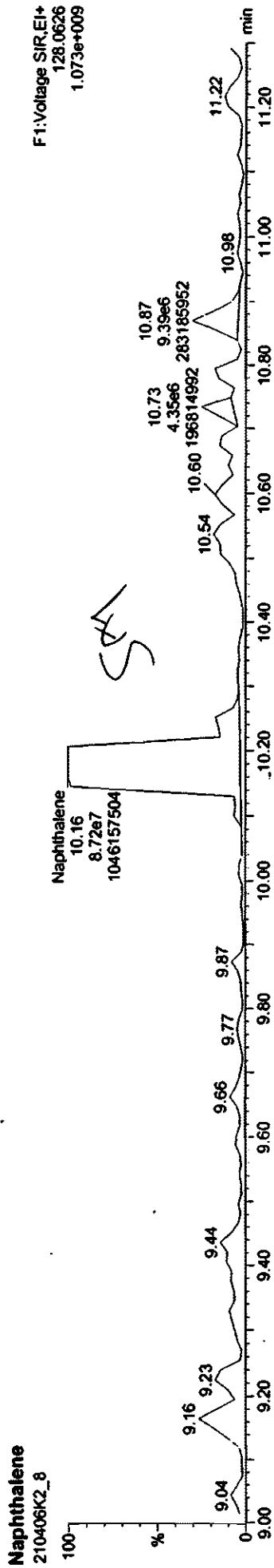
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

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Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

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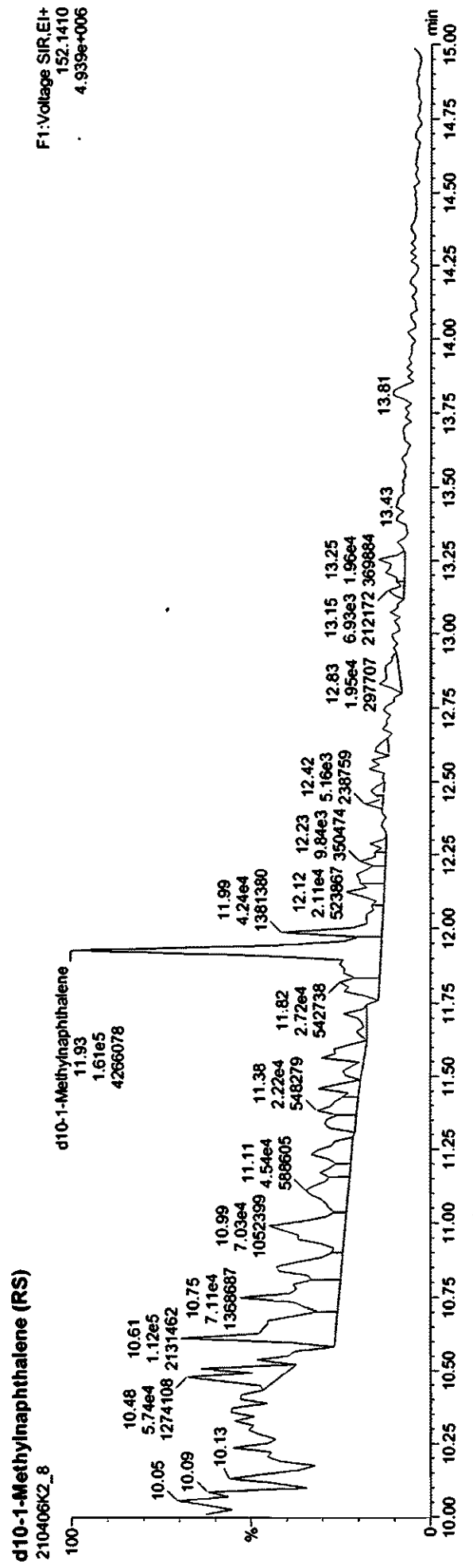
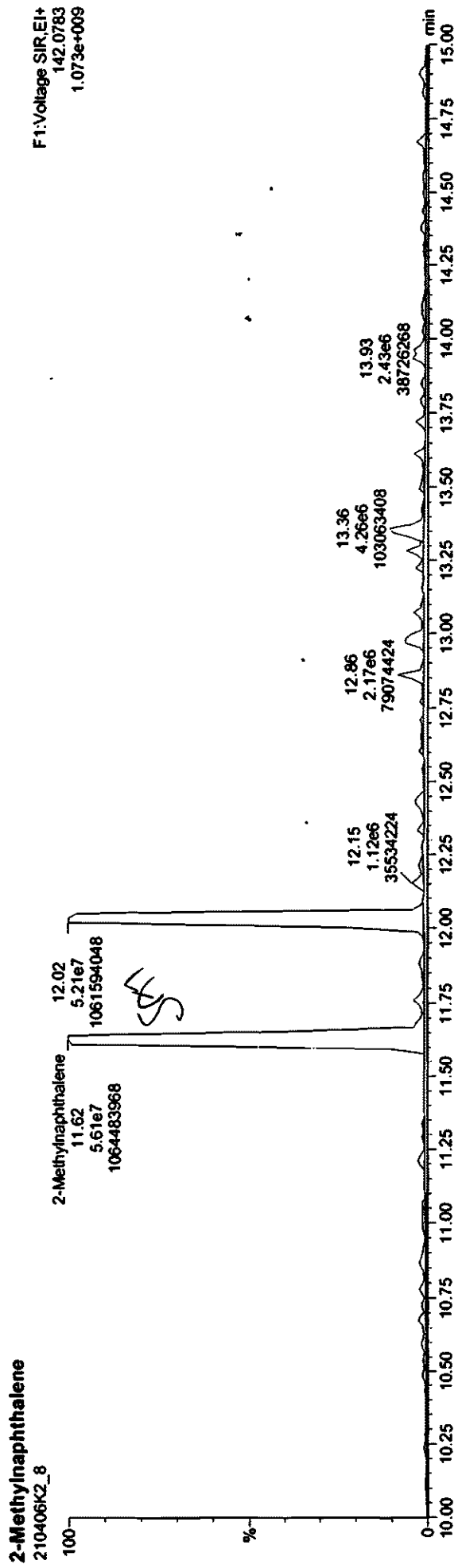
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Dataset: Untitled

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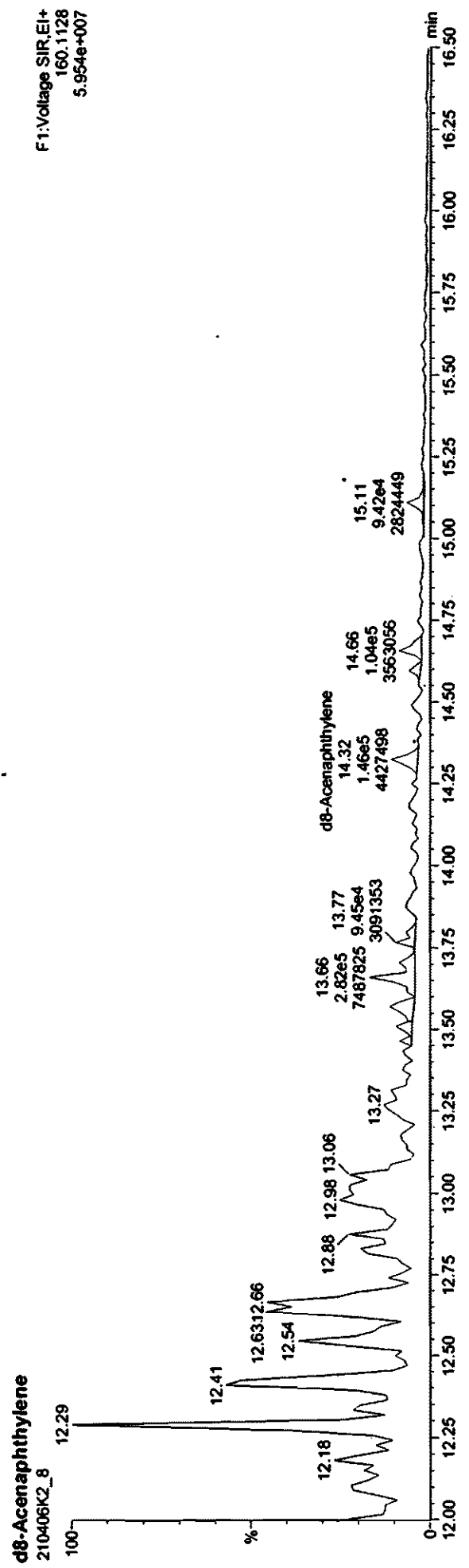
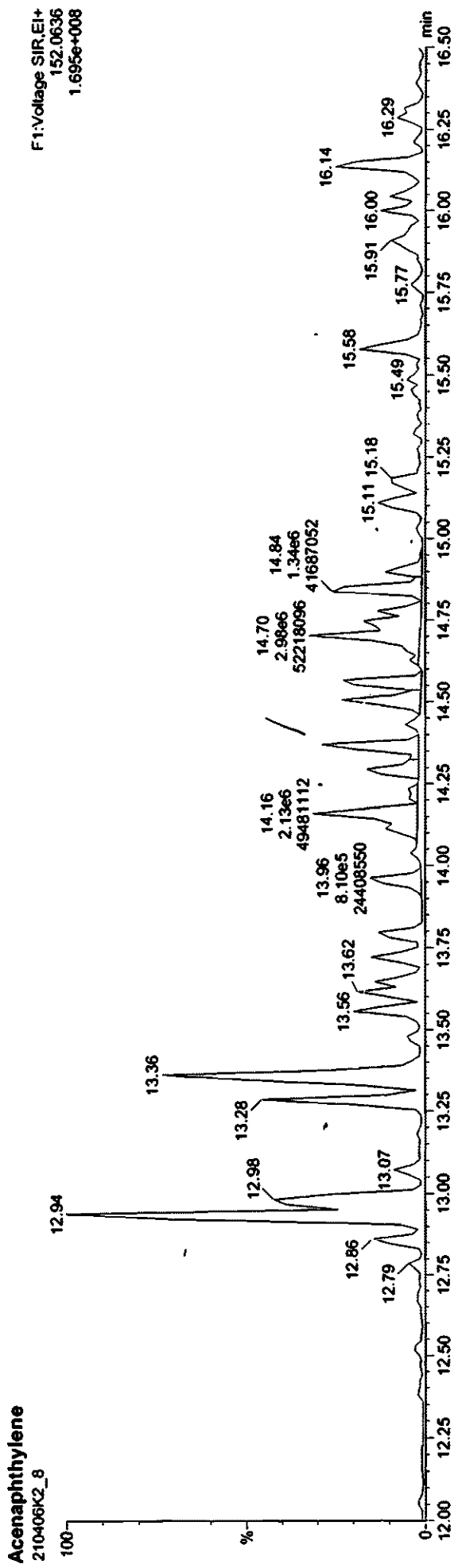
Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 2



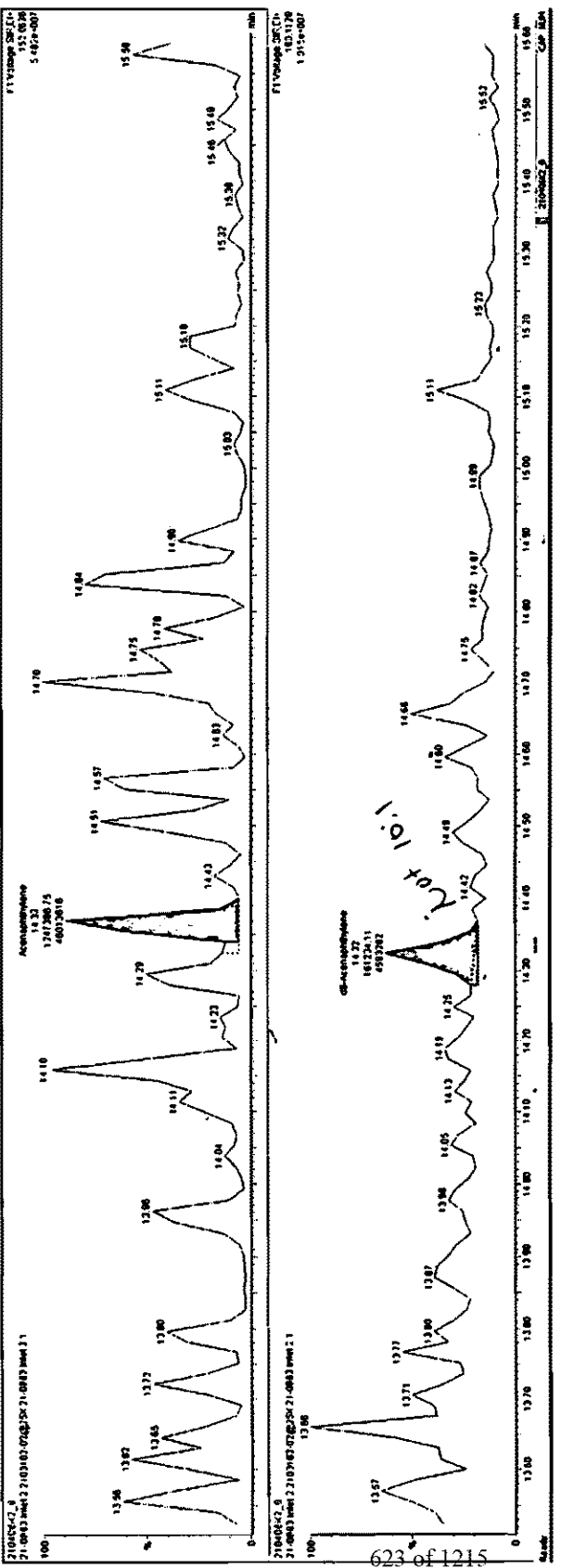
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Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



| Name | Flow | Rate | Volume | Pressure | Temp | Unit | GC | Temp | Unit | GC | Temp |
|------|-------|------|--------|----------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 2 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 3 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 4 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 5 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 6 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 7 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 8 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 9 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 10 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 11 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 12 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 13 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 14 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 15 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 16 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 17 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 18 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 19 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |
| 20 | 10.00 | 1.00 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 | 10.15 | 10.00 |

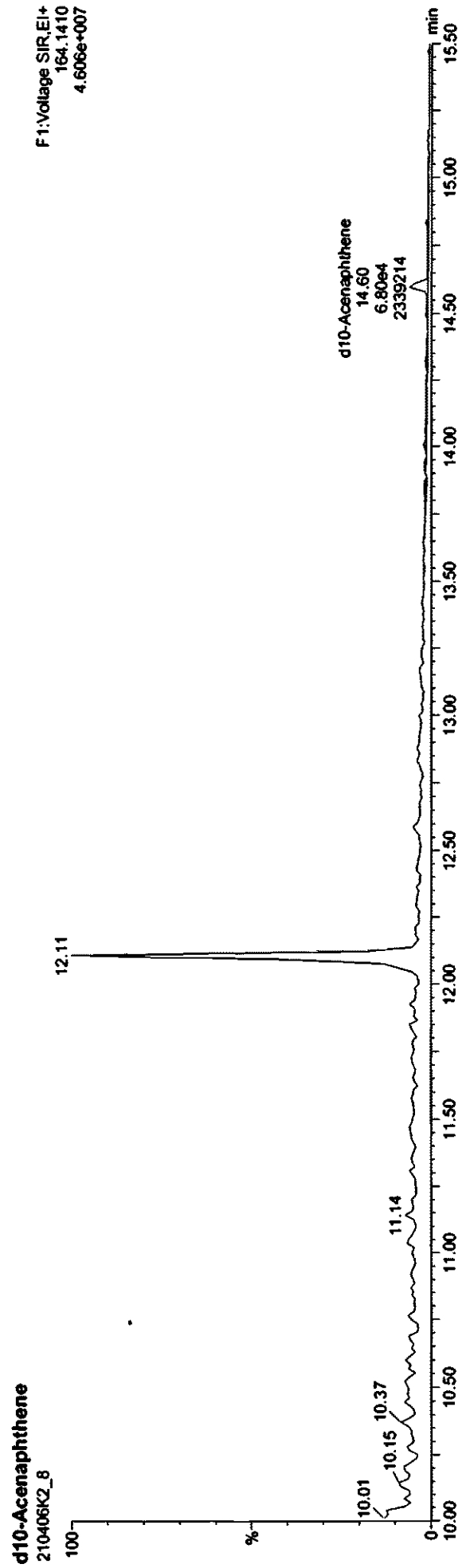
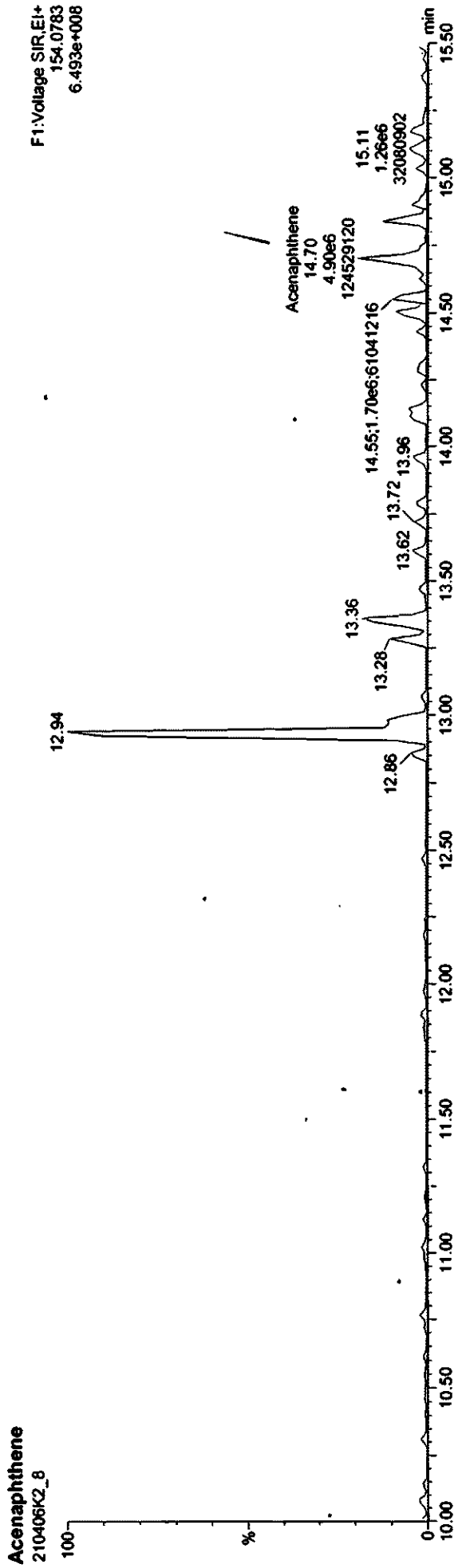


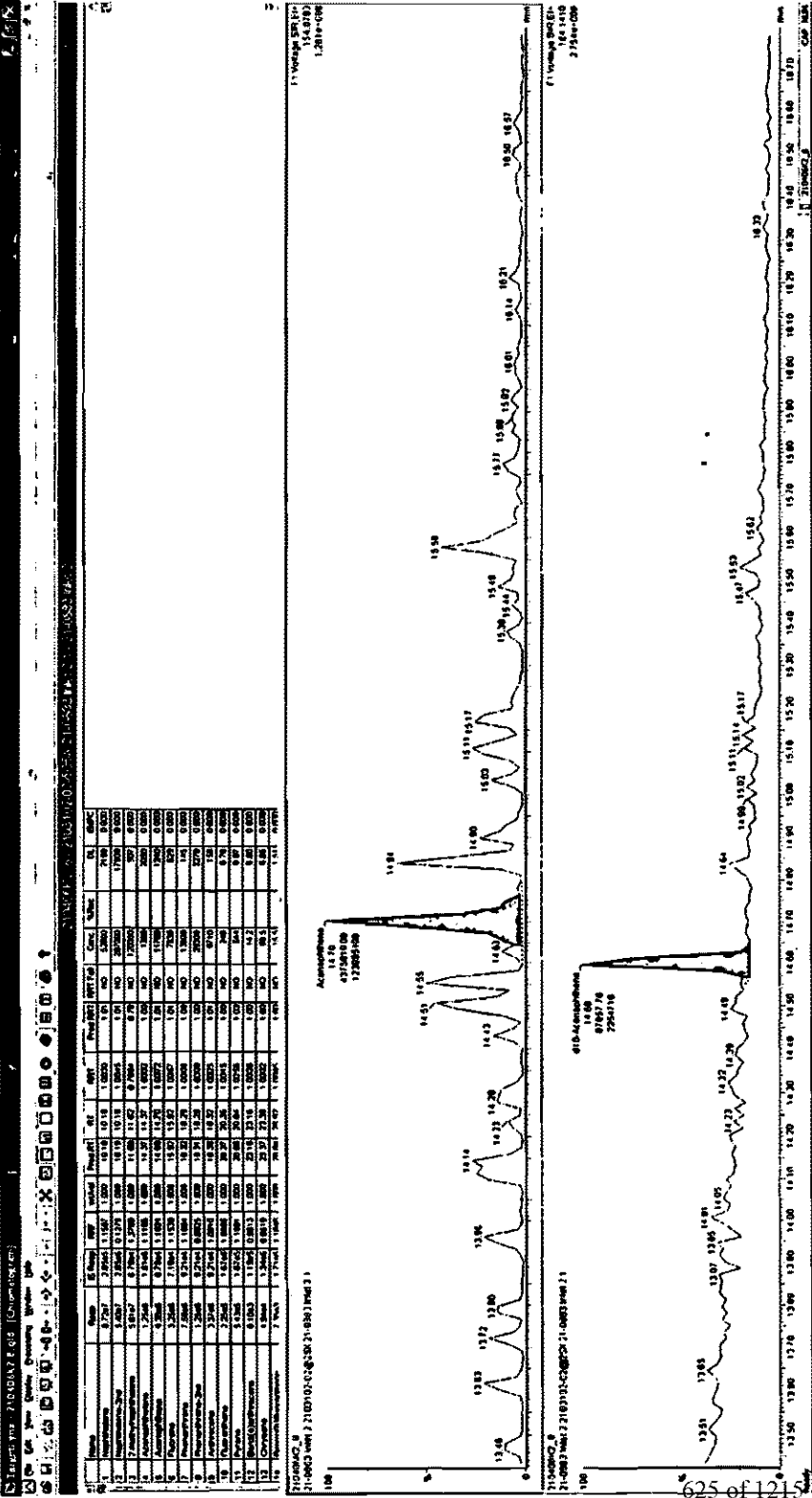
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 10:48:27 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 2

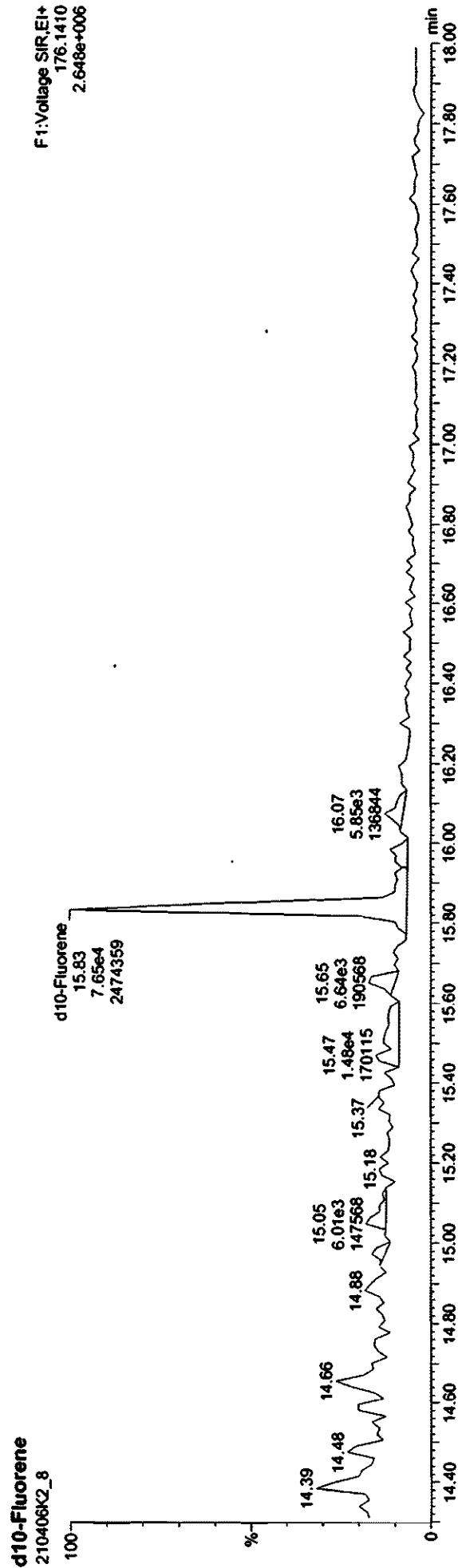
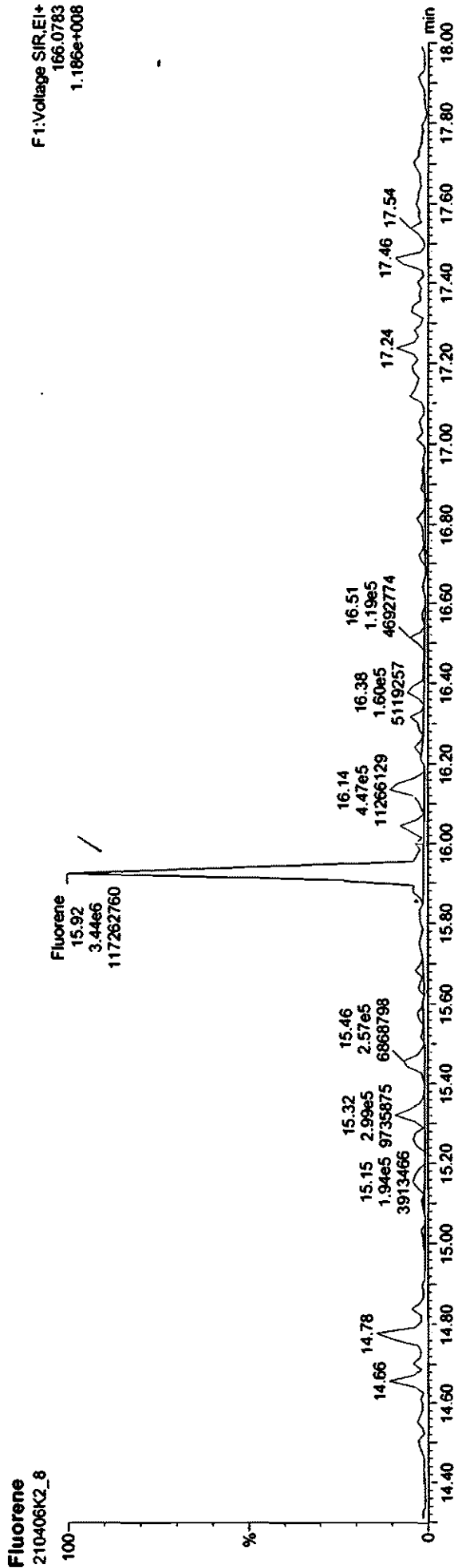




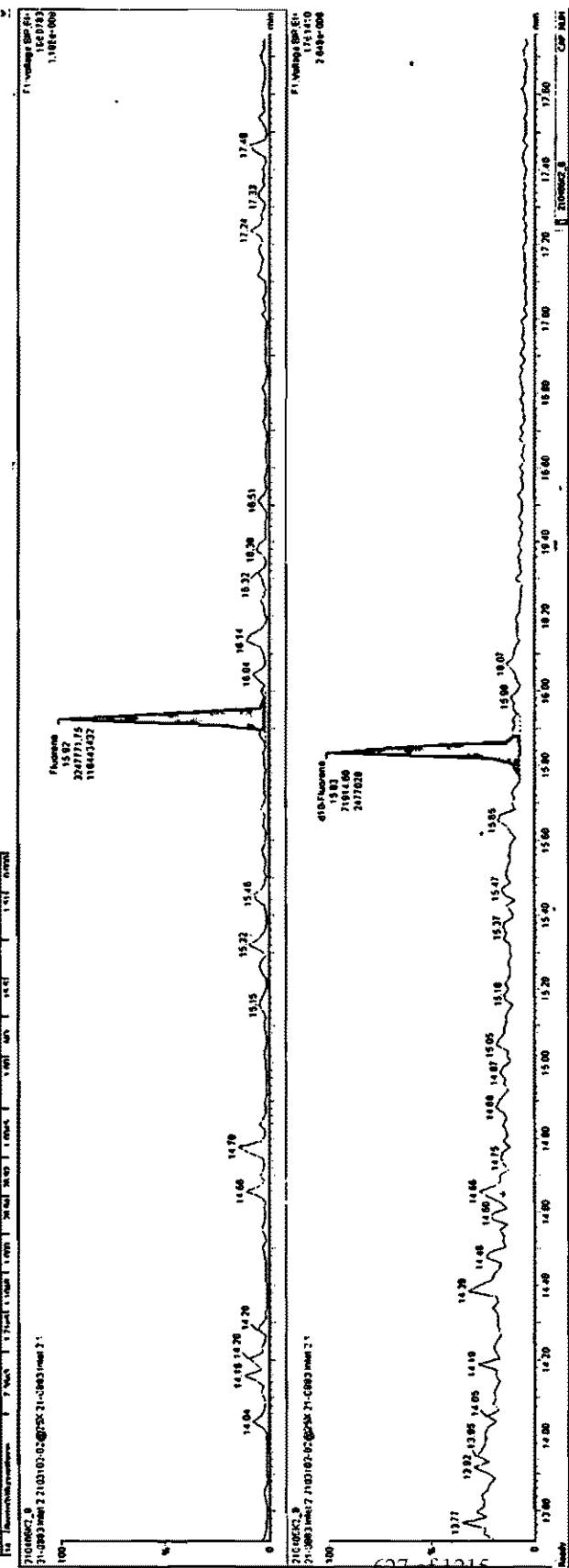
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Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

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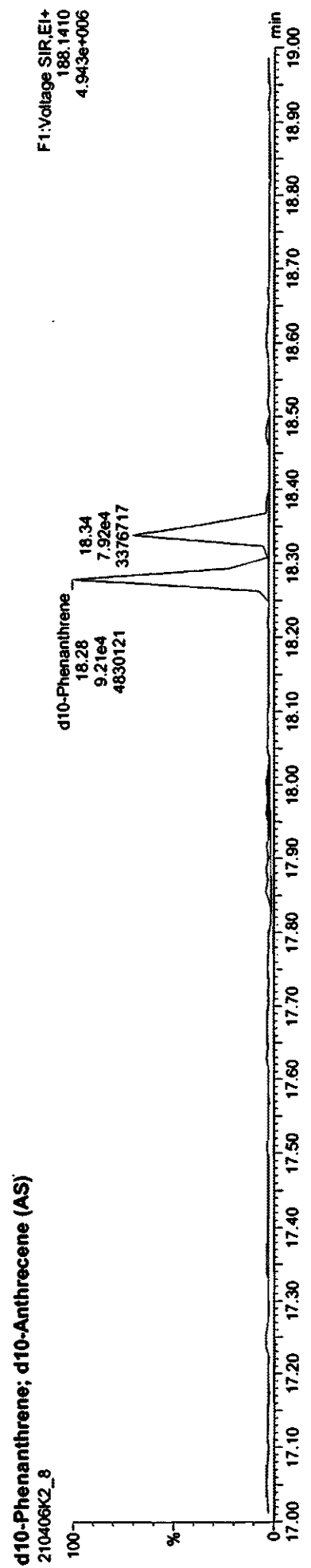
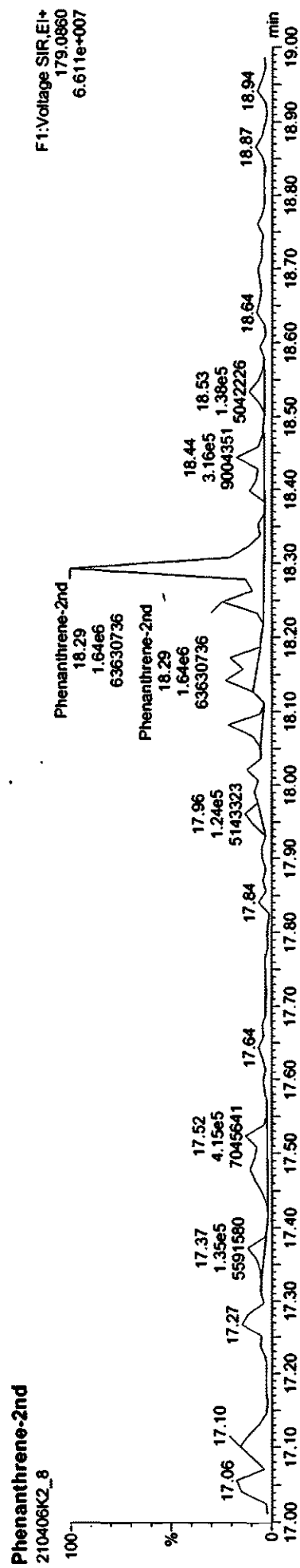
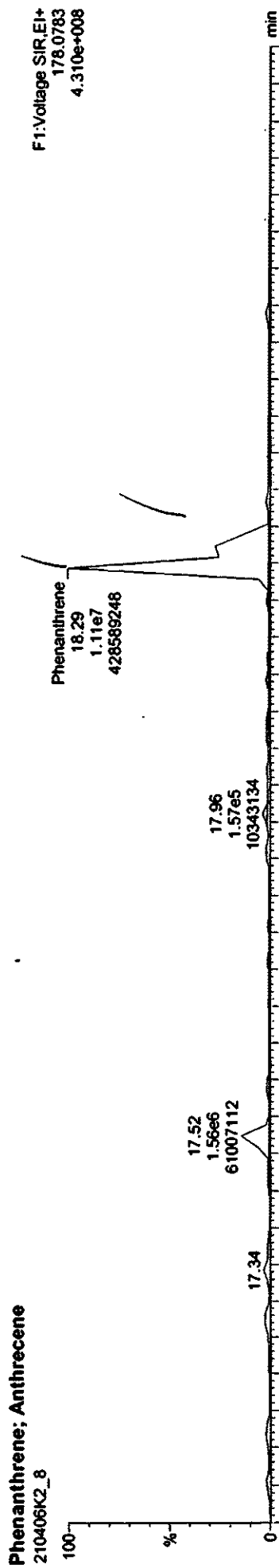
| RT (min) | Area | Height | Area% | Height% | CP | Net Peak (Area) | Net Peak (Height) | CP | Area | Height | Area% | Height% | CP |
|----------|------|--------|-------|---------|------|-----------------|-------------------|------|------|--------|-------|---------|------|
| 13.71 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 13.85 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 14.05 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 14.20 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 14.30 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 14.48 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 14.66 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 14.79 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.00 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.22 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.37 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.46 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.55 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.66 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.85 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 15.90 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.04 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.26 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.31 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.40 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.53 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.60 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.70 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.80 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 16.90 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.00 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.20 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.30 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.40 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.50 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.70 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.80 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 17.90 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.00 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.10 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.20 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.30 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.40 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.50 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.60 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.70 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.80 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 18.90 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.00 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.10 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.20 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.30 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.40 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.50 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.60 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.70 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.80 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 19.90 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.00 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.10 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.20 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.30 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.40 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.50 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.60 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.70 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.80 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 20.90 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |
| 21.00 | 100 | 100 | 0.00 | 0.00 | 1.00 | 100 | 100 | 1.00 | 100 | 100 | 0.00 | 0.00 | 1.00 |



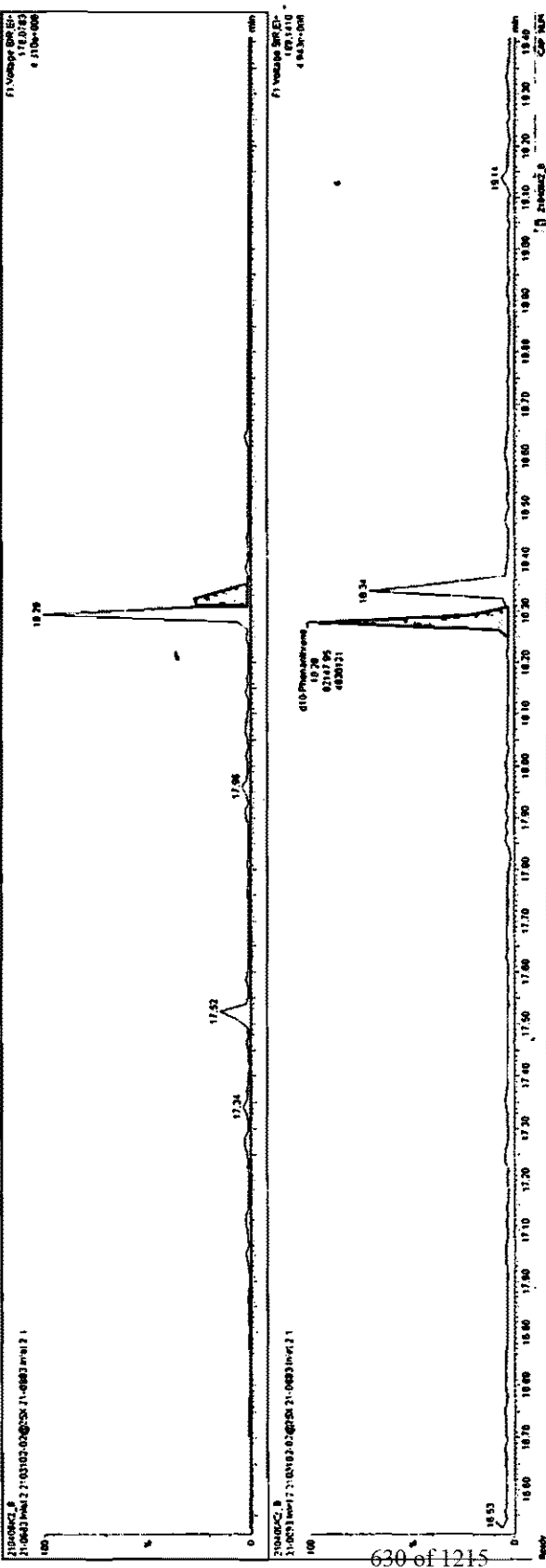
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Last Altered: Wednesday, April 07, 2021 10:48:27 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 2



| Peak | RT | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height |
|------|-------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|--------|
| 1 | 17.24 | 27000 | 1.000 | 0.100 | 1.000 | 27000 | 1.000 | 0.100 | 1.000 | 27000 | 1.000 | 0.100 | 1.000 | 27000 | 1.000 | 0.100 | 1.000 |
| 2 | 17.52 | 10000 | 1.000 | 0.100 | 1.000 | 10000 | 1.000 | 0.100 | 1.000 | 10000 | 1.000 | 0.100 | 1.000 | 10000 | 1.000 | 0.100 | 1.000 |
| 3 | 18.34 | 482021 | 1.000 | 0.100 | 1.000 | 482021 | 1.000 | 0.100 | 1.000 | 482021 | 1.000 | 0.100 | 1.000 | 482021 | 1.000 | 0.100 | 1.000 |
| 4 | 18.79 | 27000 | 1.000 | 0.100 | 1.000 | 27000 | 1.000 | 0.100 | 1.000 | 27000 | 1.000 | 0.100 | 1.000 | 27000 | 1.000 | 0.100 | 1.000 |



2103102_8
 21-0623 16412 21-03102-83@25K 21-0603 16412 1
 2103102_8
 21-0623 16412 21-03102-83@25K 21-0603 16412 1
 630 of 1215
 18.53
 18.79
 17.52
 17.24
 18.34
 610-Phosphatidylcholine
 8214796
 482021
 18.14
 18.00 18.10 18.20 18.30 18.40 18.50 18.60 18.70 18.80 18.90 19.00 19.10 19.20 19.30 min
 2103102_8
 21-0623 16412

Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

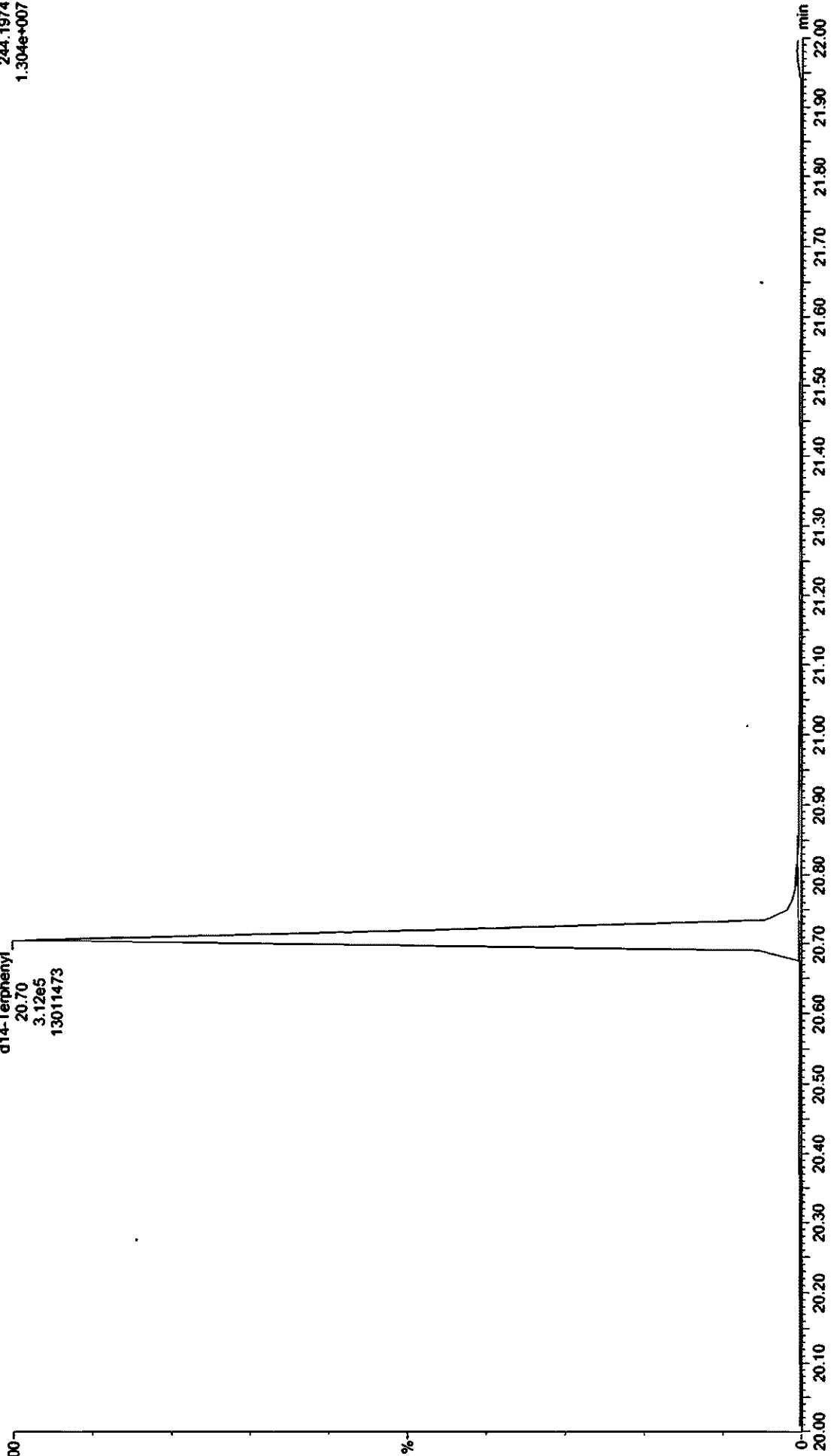
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Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

d14-Terphenyl (PS)
210406K2_8

F2:Voltage SIR,EI+
244,1974
1.304e+007

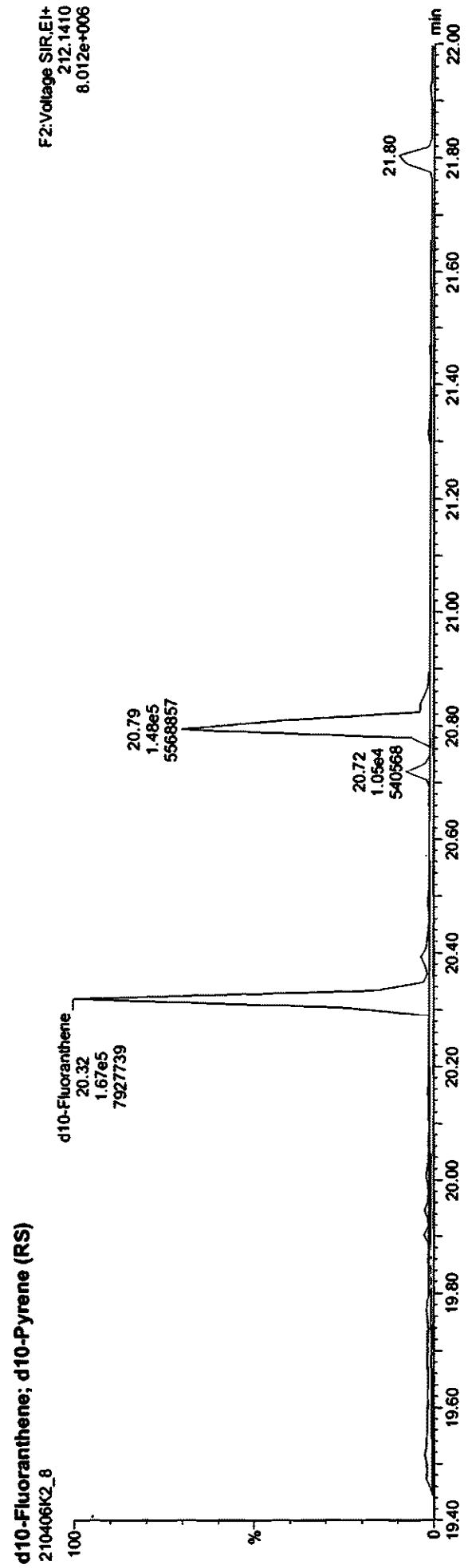
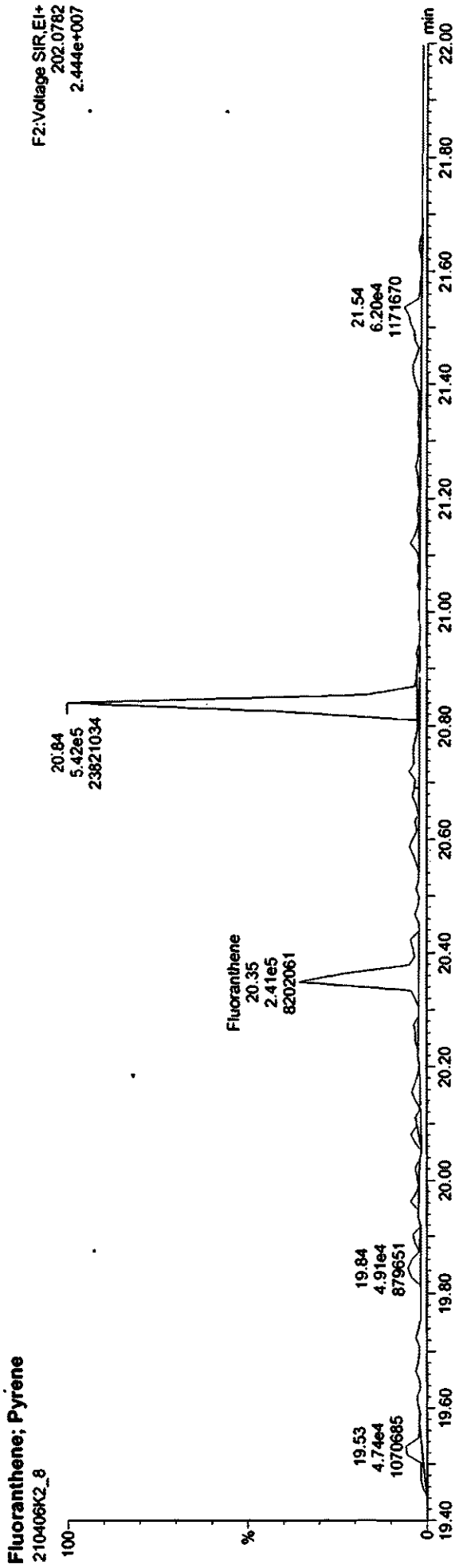
d14-Terphenyl
20.70
3.12e5
13011473



Dataset: Untitled

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Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 2



Dataset: Untitled

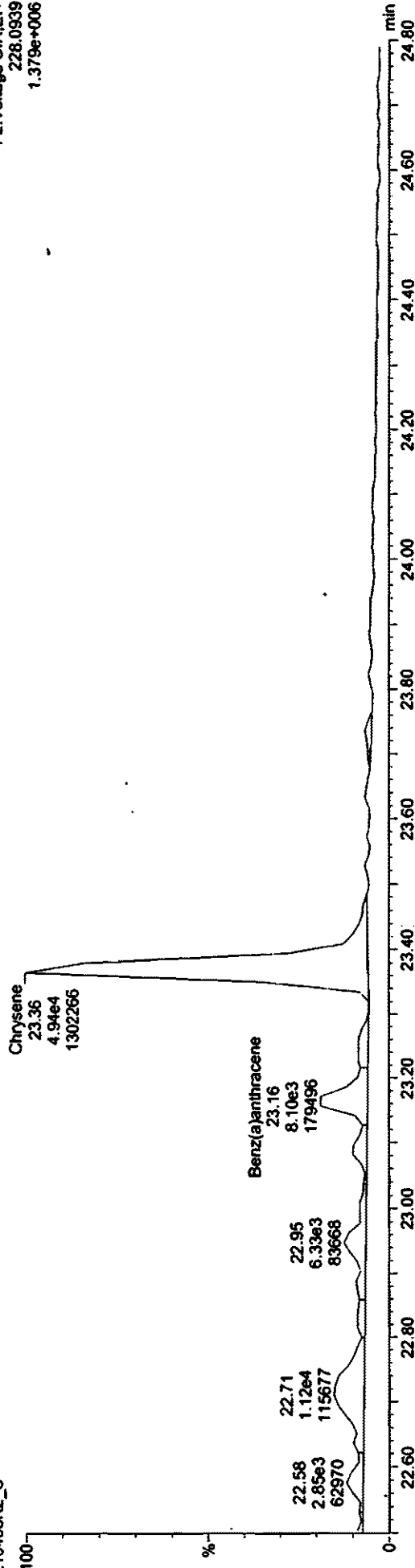
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Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

Benz(a)Anthracene-Chrysene

210406K2_8

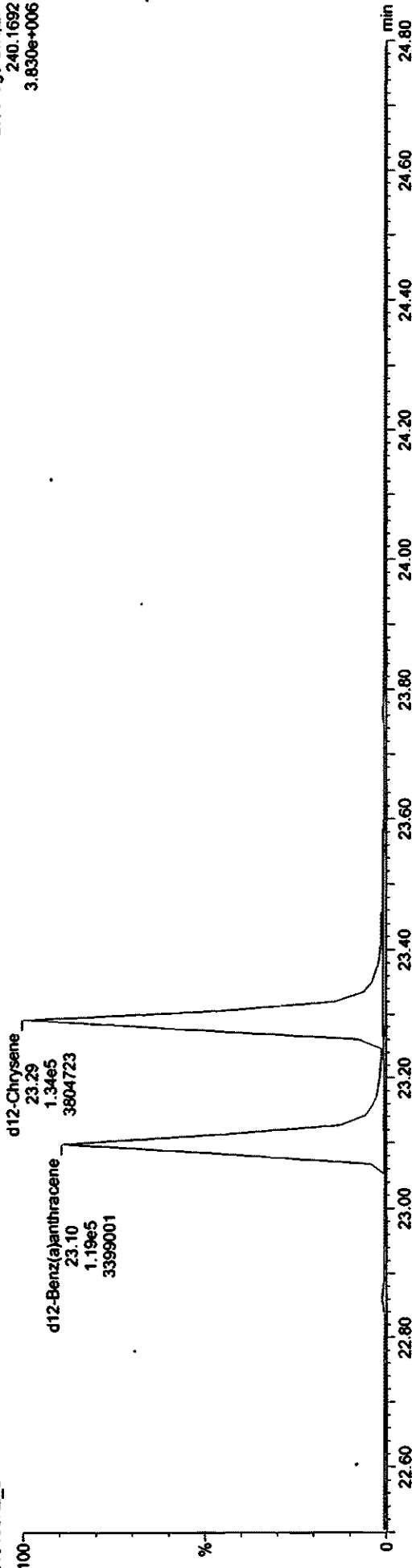
F2:Voltage SIR,EI+
228.0939
1.379e+006



Benz(a)Anthracene-Chrysene-Iso

210406K2_8

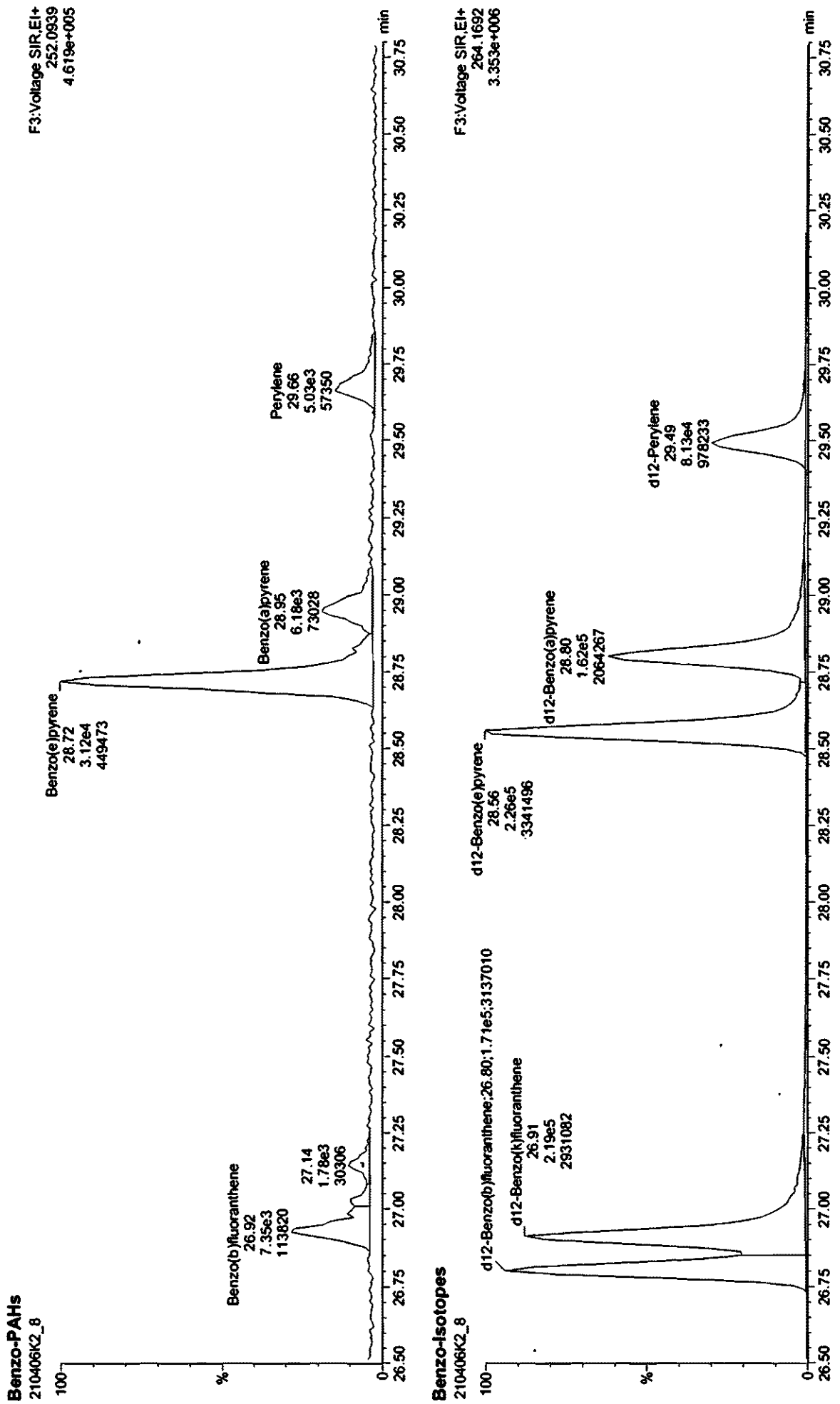
F2:Voltage SIR,EI+
240.1692
3.830e+006



Dataset: Untitled

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Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 1, Description: 21-0883 Inlet 2



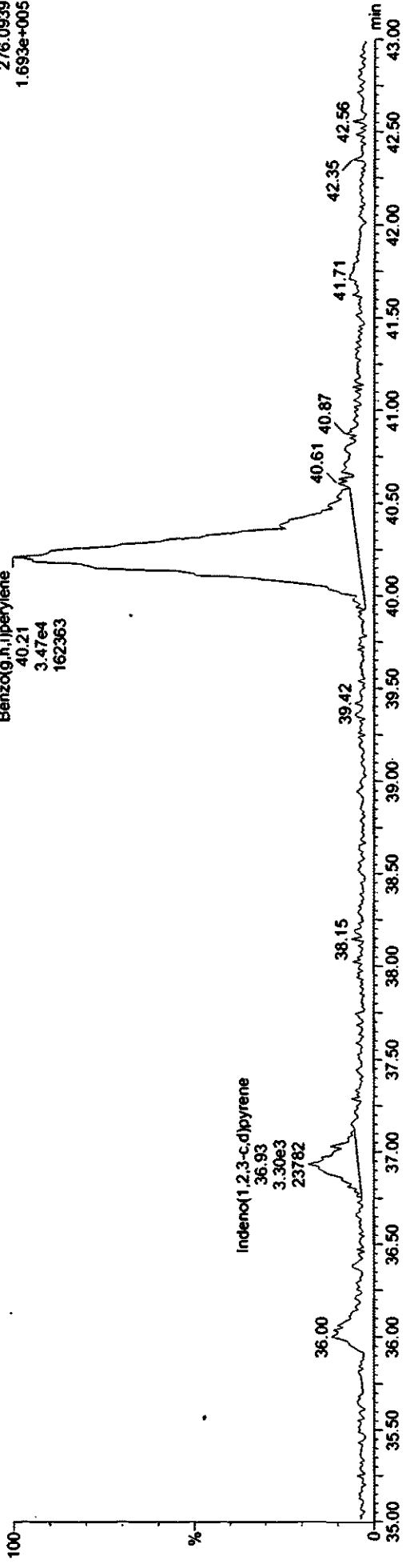
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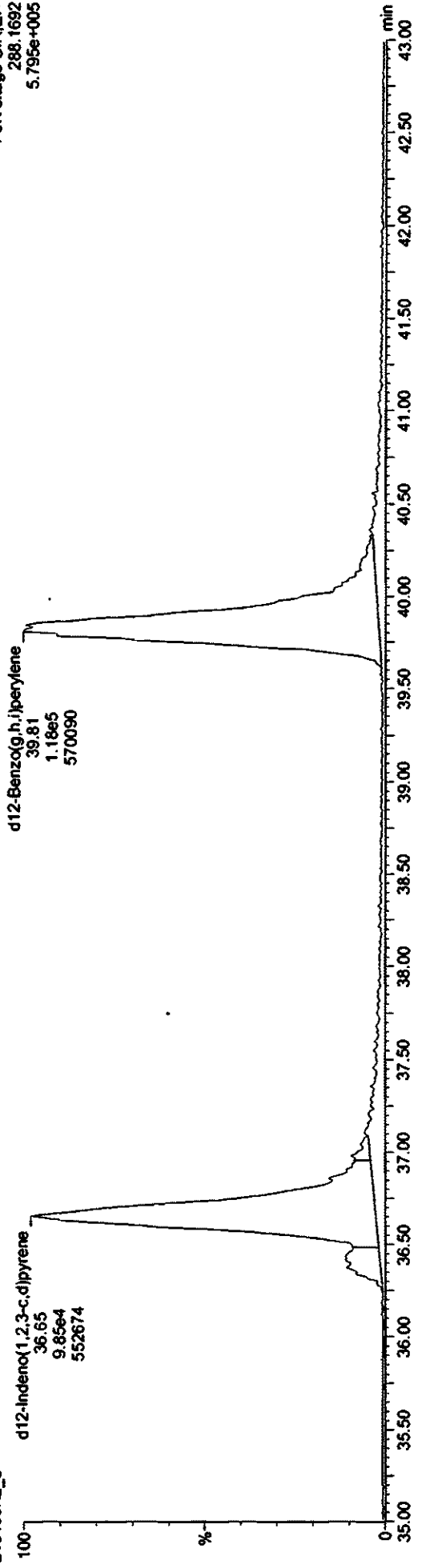
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene
210406K2_8

F3:Voltage SIR.EI+
276.0939
1.693e+005



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene
210406K2_8

F3:Voltage SIR.EI+
288.1692
5.795e+005



Dataset: Untitled

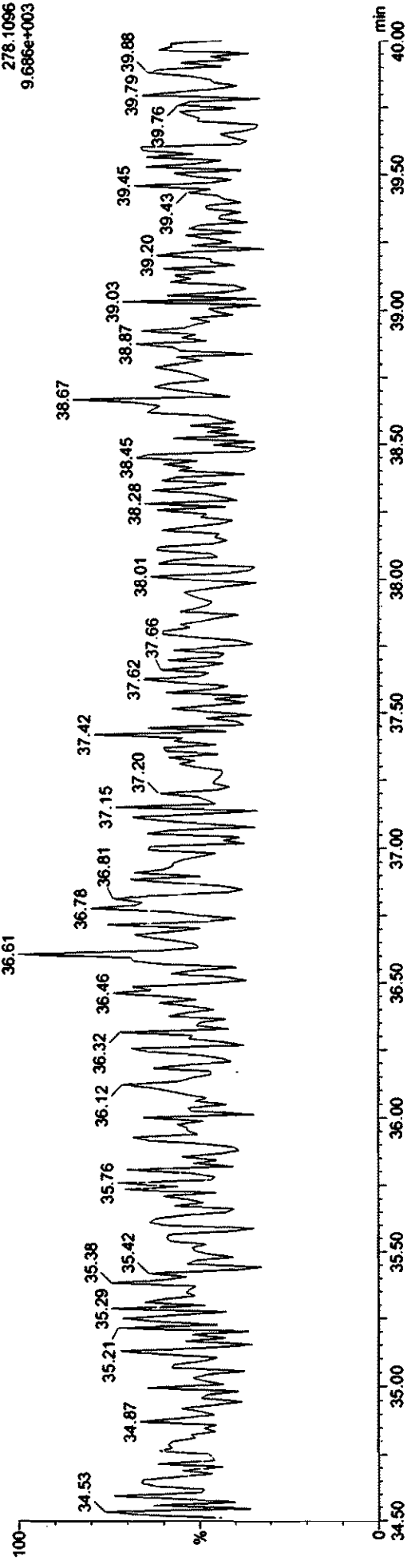
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Printed: Wednesday, April 07, 2021 10:48:57 AM Pacific Daylight Time

Name: 210406K2_8, Date: 07-Apr-2021, Time: 07:35:35, ID: 2103102-02@25X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

Dibenz(a,h)anthracene

210406K2_8

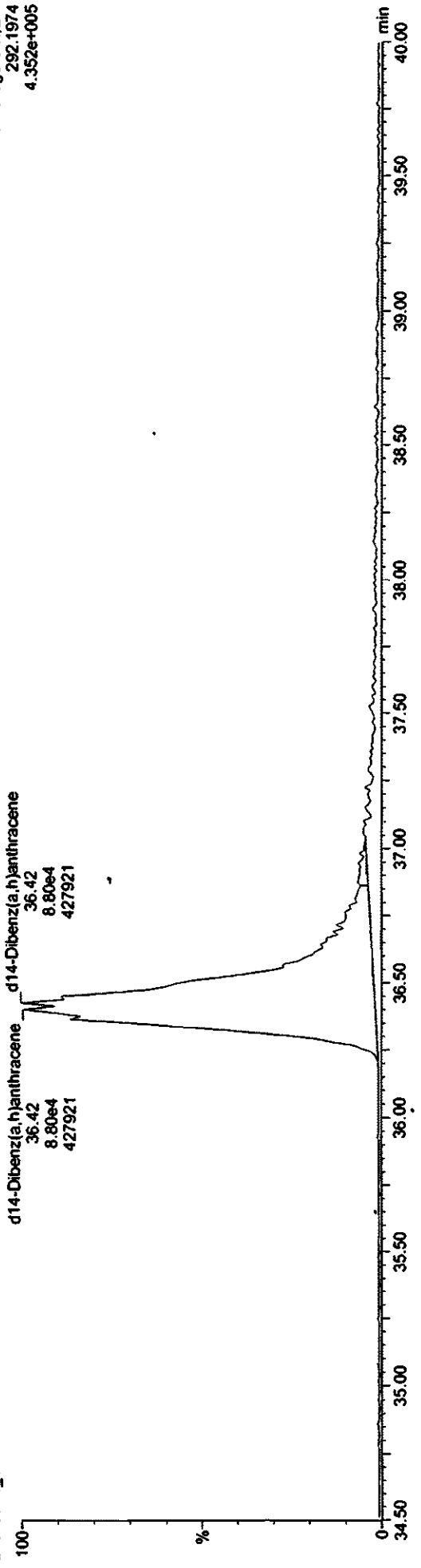
F3:Voltage SIR.EI+
278.1096
9.686e+003



d14-Dibenz(a,h)anthracene

210406K2_8

F3:Voltage SIR.EI+
292.1974
4.352e+005



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210407K1\210407K1-5.qld

Last Altered: Thursday, April 08, 2021 11:49:29 Pacific Daylight Time
Printed: Thursday, April 08, 2021 11:50:05 Pacific Daylight Time

He U.S. 2021 C704/09/wz.1

* Conc needs to be x1000

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Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

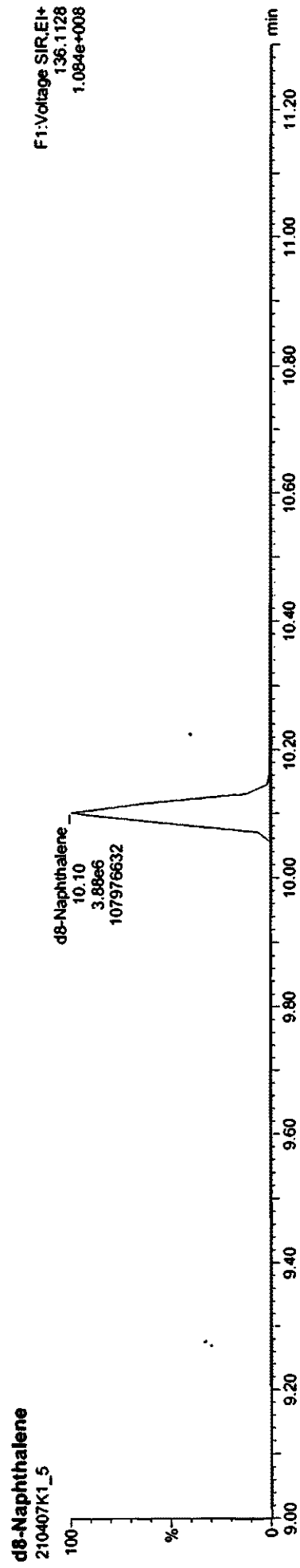
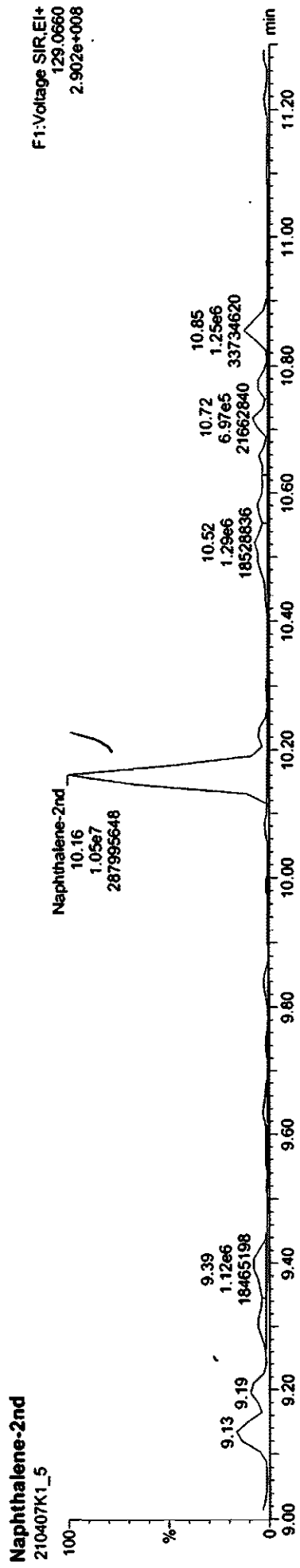
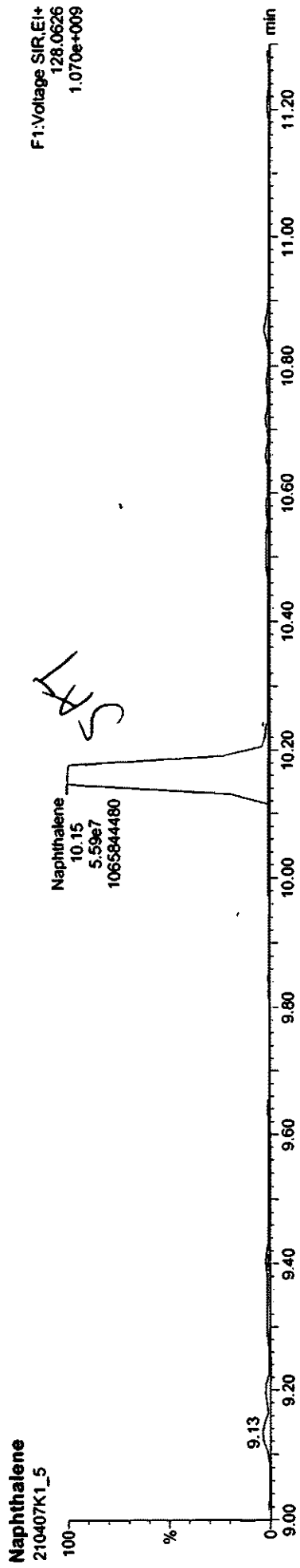
Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

| L# | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|----------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|--------|-----------|--------|
| 1 | Naphthalene | 5.59e7 | 3.88e6 | 1.16 | 1.000 | 10.16 | 10.15 | 1.006 | 1.004 | NO | NO | 2490 | 6.06 |
| 2 | Naphthalene-2nd | 1.01e7 | 3.88e6 | 0.128 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | x 4070 | 4,070,000 | 26.3 |
| 3 | 2-Methylnaphthalene | 2.05e7 | 2.17e6 | 1.38 | 1.000 | 11.60 | 11.62 | 0.794 | 0.796 | NO | x 1380 | 1,380,000 | 0.950 |
| 4 | Acenaphthylene | 7.82e4 | 3.30e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | x 4.26 | 4,260 | 0.528 |
| 5 | 22 d8-Naphthalene | 3.88e6 | 7.86e5 | 1.20 | 1.000 | 10.10 | 10.10 | 0.848 | 0.848 | NO | 207 | 103 | 0.112 |
| 6 | 23 d8-Acenaphthylene | 3.30e6 | 7.86e5 | 0.905 | 1.000 | 14.31 | 14.32 | 1.201 | 1.203 | NO | 234 | 117 | 1.03 |
| 7 | 24 d10-Acenaphthene | 2.17e6 | 7.86e5 | 0.594 | 1.000 | 14.60 | 14.60 | 1.226 | 1.225 | NO | 234 | 116 | 0.124 |
| 8 | 40 d10-Pyrene | 7.86e5 | 7.86e5 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 50.4 | 100 | 0.0166 |

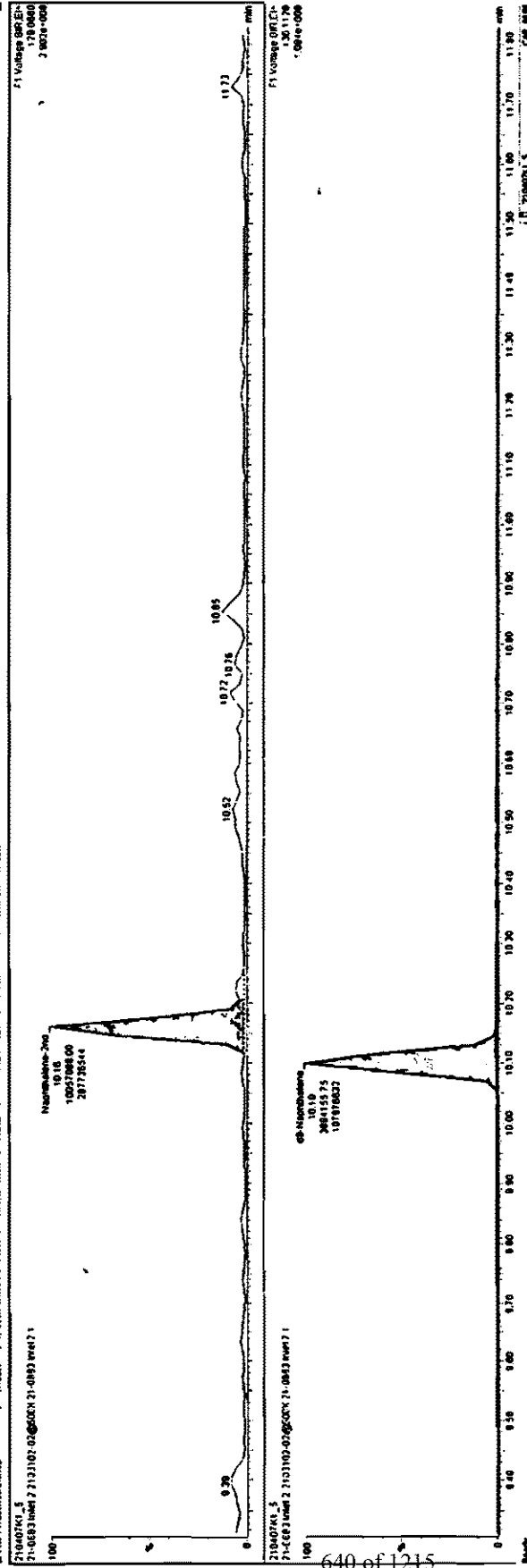
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Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



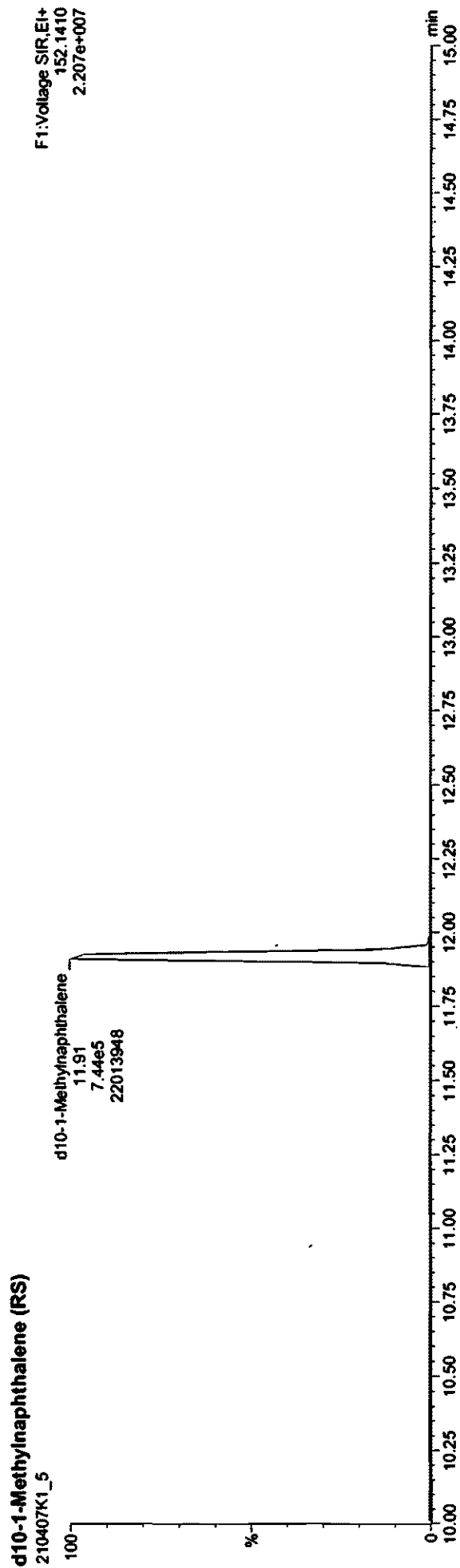
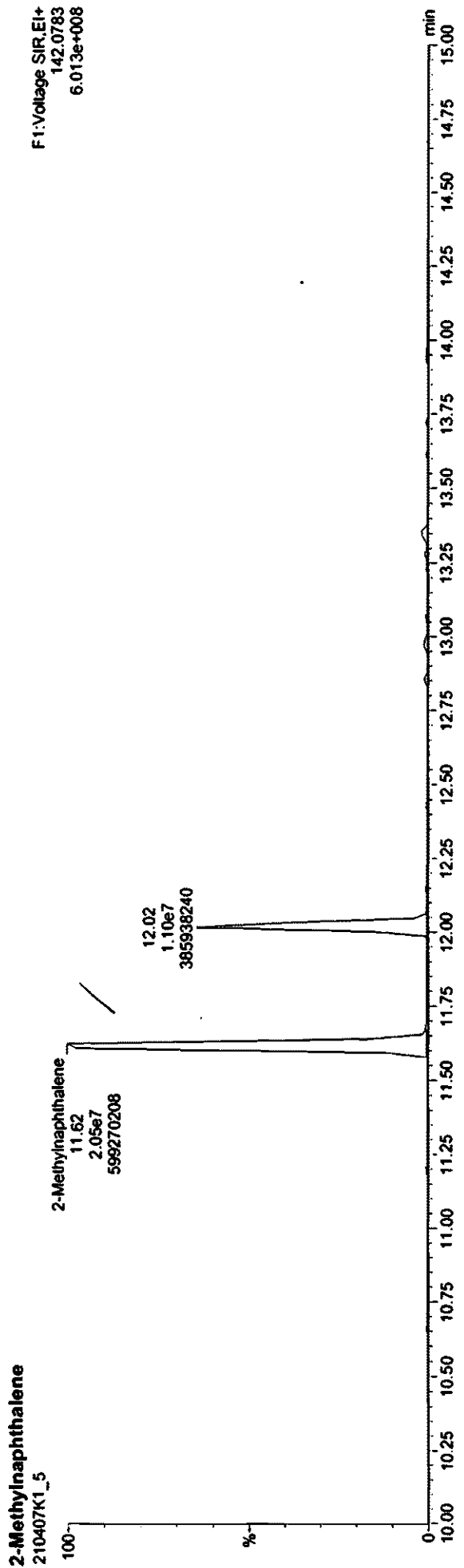
| Peak | Area | Height | Width | Area% | Height% | RT | RT Error | RT Error | Area | Height | Area | Height | Area | Height | Area | Height | Area | Height | Area | Height | |
|------|-------|--------|-------|-------|---------|--------|----------|----------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 1 | 5.267 | 3.266 | 1.157 | 1.000 | 10.15 | 10.045 | 0.01 | 0.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 2 | 1.012 | 3.266 | 1.157 | 1.000 | 10.15 | 10.045 | 0.01 | 0.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 3 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 4 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 5 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 6 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 7 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 8 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 9 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 10 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 11 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 12 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 13 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 14 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 15 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| 16 | 2.067 | 2.194 | 1.278 | 1.000 | 11.60 | 11.52 | 0.08 | 0.08 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |



Dataset: Untitled

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Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

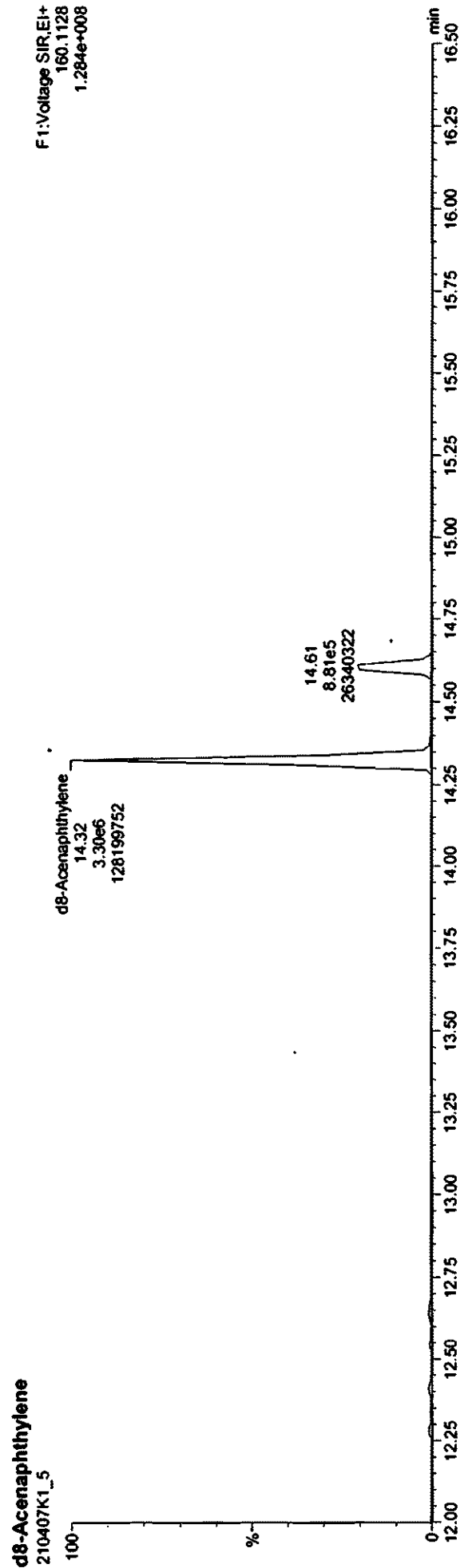
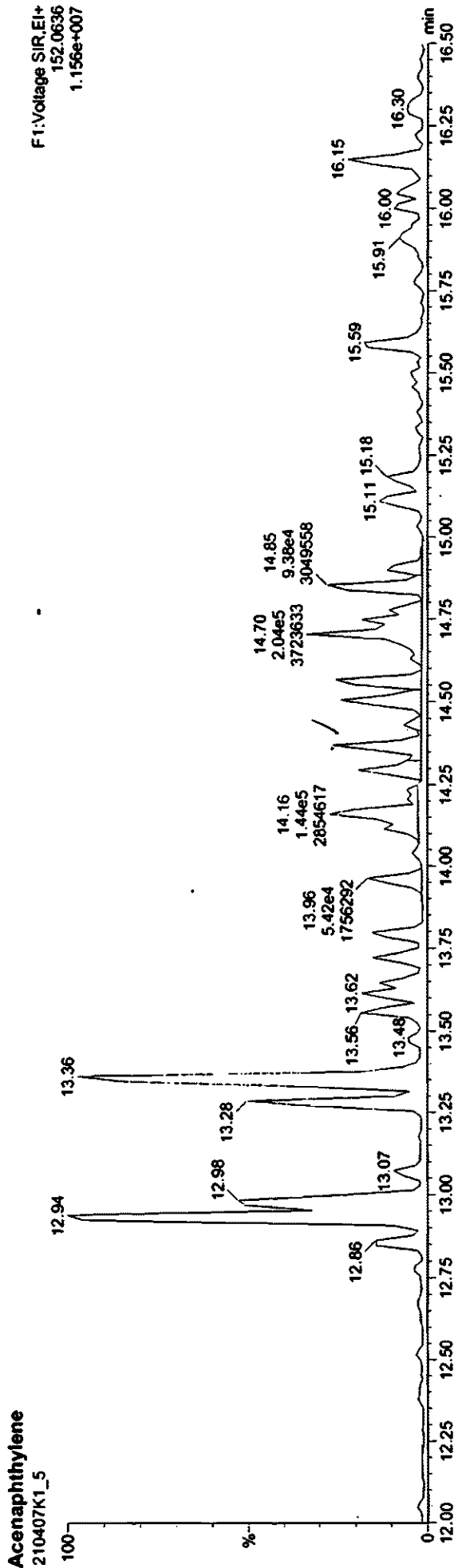
Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



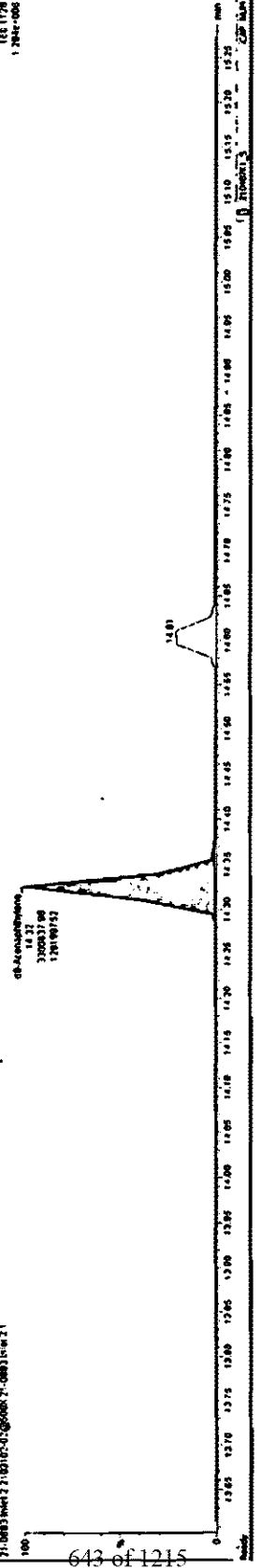
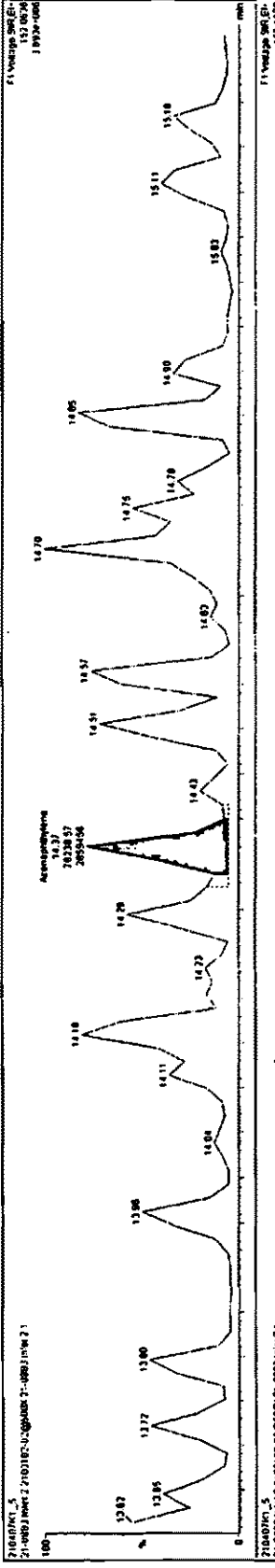
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Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



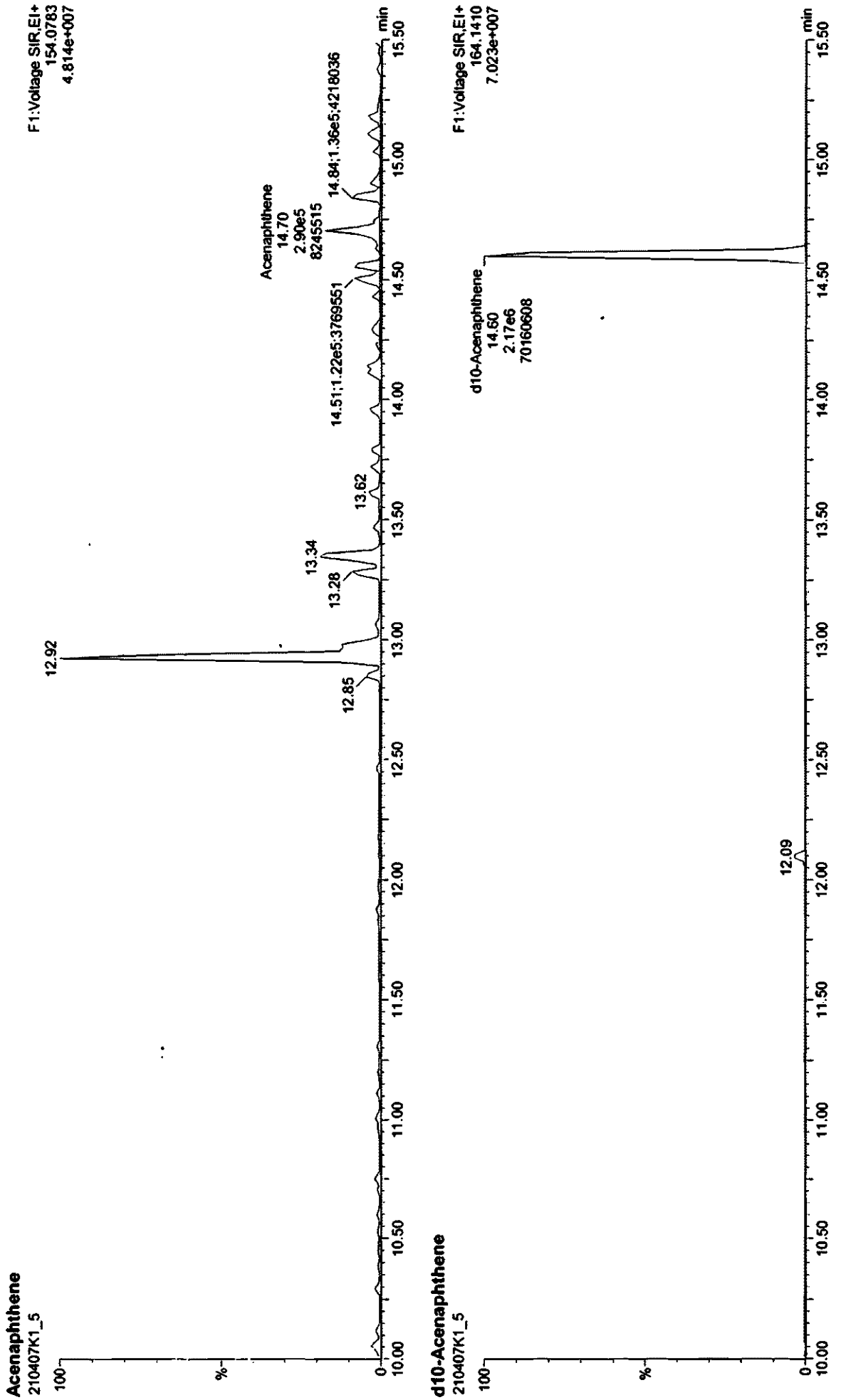
| Peak | RT | Area | Height | Width | Area% | Height% | Width% |
|------|-------|-------|--------|-------|-------|---------|--------|
| 1 | 12.87 | 3.284 | 1.1597 | 1.000 | 0.16 | 1.00 | 1.00 |
| 2 | 13.85 | 3.284 | 1.1597 | 1.000 | 0.16 | 1.00 | 1.00 |
| 3 | 13.72 | 2.714 | 1.2709 | 1.000 | 0.14 | 1.00 | 1.00 |
| 4 | 13.96 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 5 | 14.08 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 6 | 14.11 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 7 | 14.22 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 8 | 14.33 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 9 | 14.43 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 10 | 14.51 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 11 | 14.60 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 12 | 14.75 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 13 | 14.82 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 14 | 14.90 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 15 | 15.00 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 16 | 15.10 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 17 | 15.82 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 18 | 16.00 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 19 | 16.06 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 20 | 16.25 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 21 | 16.37 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 22 | 16.51 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 23 | 16.75 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 24 | 16.82 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 25 | 16.90 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 26 | 17.00 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 27 | 17.75 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 28 | 18.00 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 29 | 18.06 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 30 | 18.25 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 31 | 18.37 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 32 | 18.51 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 33 | 18.75 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 34 | 18.82 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 35 | 18.90 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 36 | 19.00 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 37 | 19.10 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 38 | 19.25 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 39 | 19.37 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 40 | 19.51 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 41 | 19.75 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 42 | 19.82 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 43 | 19.90 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 44 | 20.00 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 45 | 20.10 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 46 | 20.25 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 47 | 20.37 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 48 | 20.51 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 49 | 20.75 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |
| 50 | 20.82 | 2.205 | 1.1588 | 1.000 | 0.11 | 1.00 | 1.00 |



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

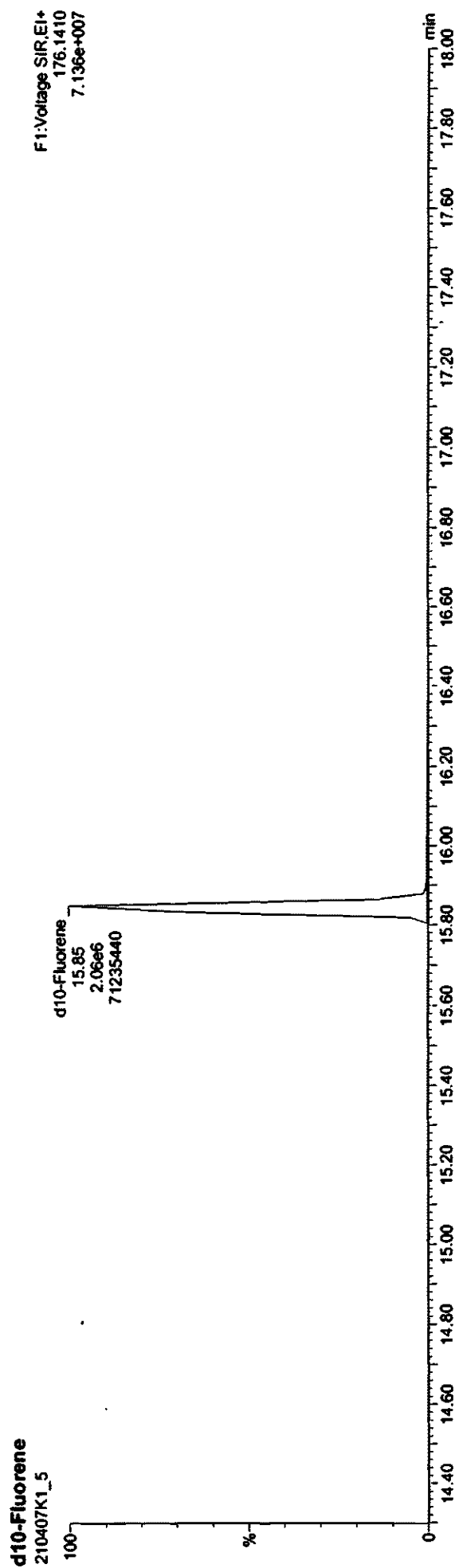
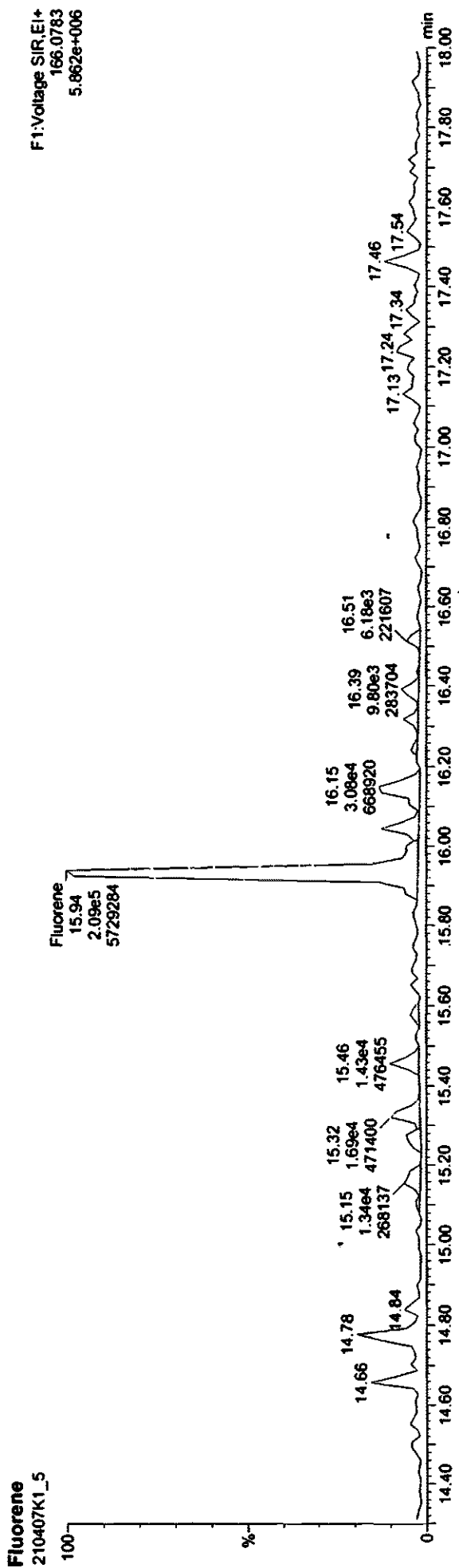


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2



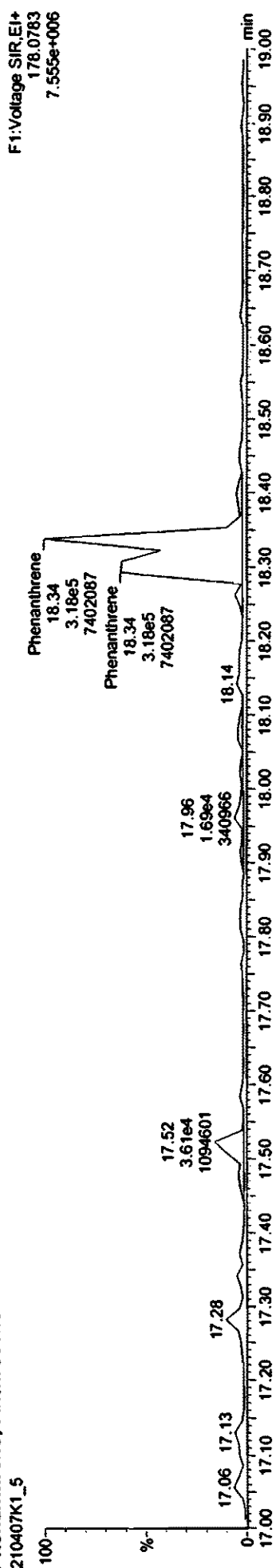
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

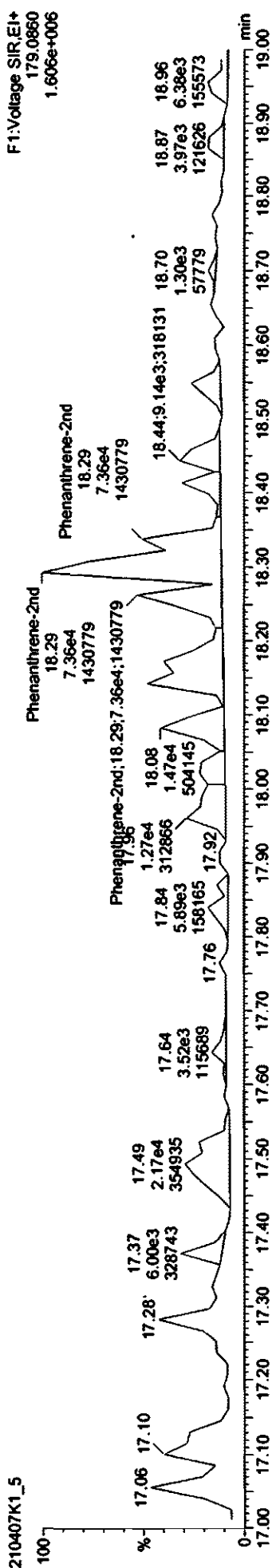
Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

Phenanthrene; Anthracene
210407K1_5



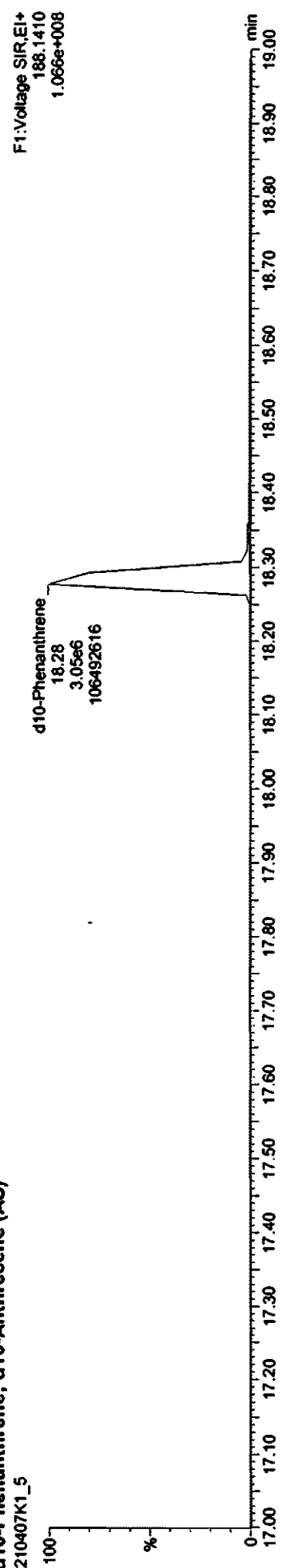
F1: Voltage SIR.EI+
176.0783
7.555e+006

Phenanthrene-2nd
210407K1_5



F1: Voltage SIR.EI+
179.0860
1.606e+006

d10-Phenanthrene; d10-Anthracene (AS)
210407K1_5



F1: Voltage SIR.EI+
188.1410
1.066e+008

Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

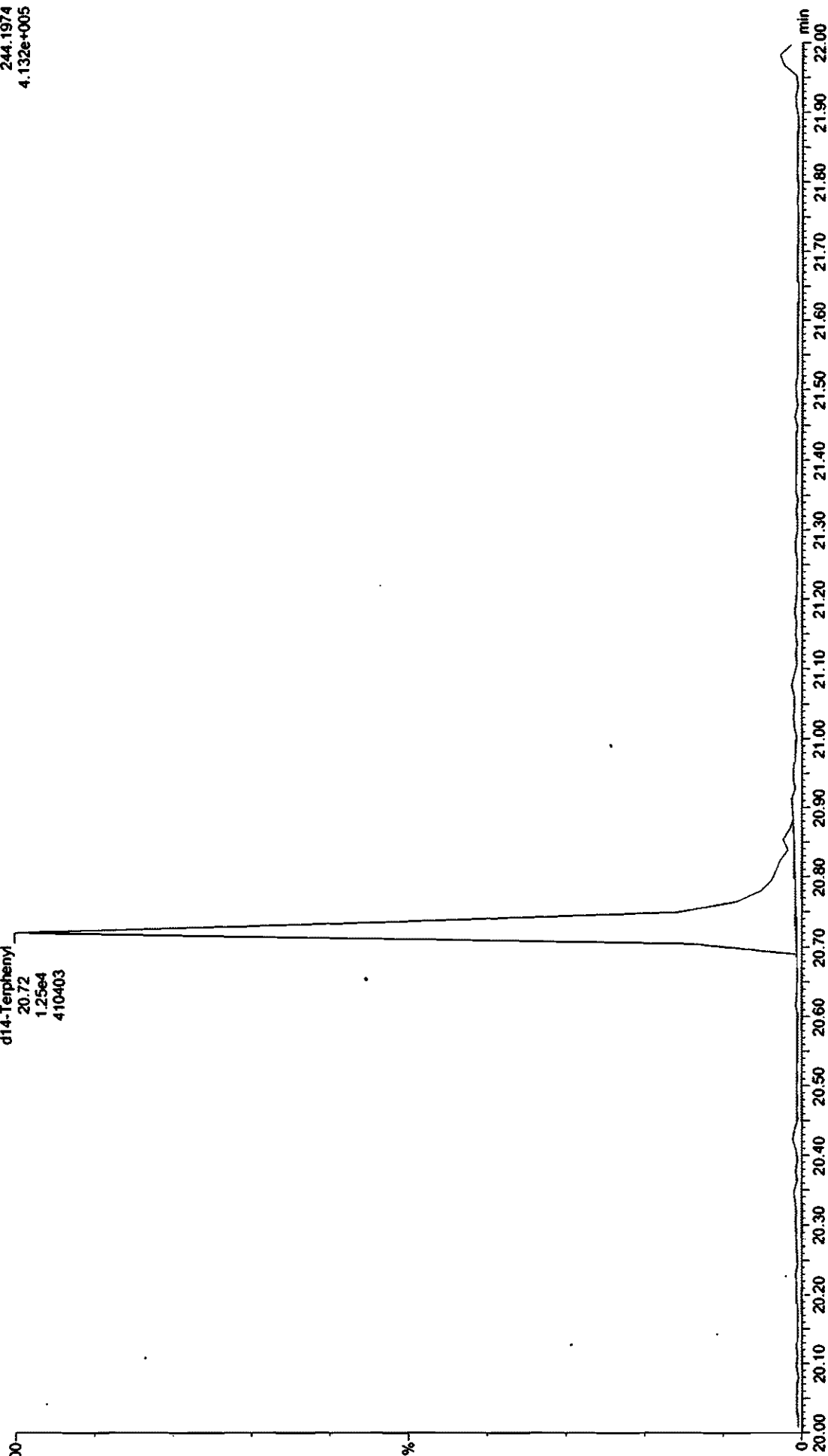
Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

d14-Terphenyl (PS)

210407K1_5

d14-Terphenyl
20.72
1.25e4
410403

F2: Voltage SIR, EI+
244.1974
4.132e+005

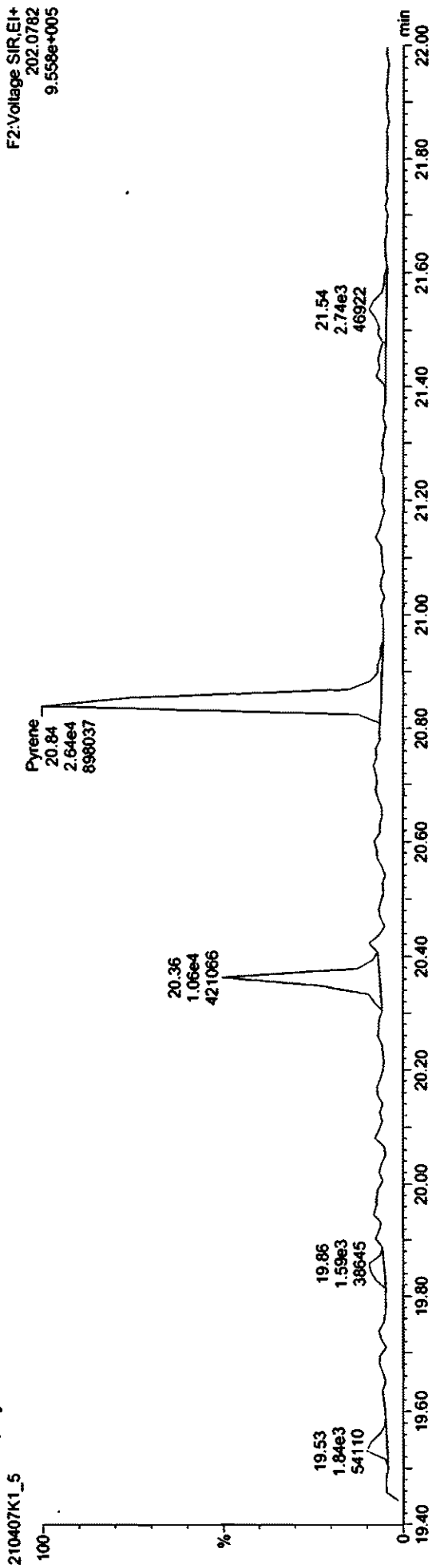


Dataset: Untitled

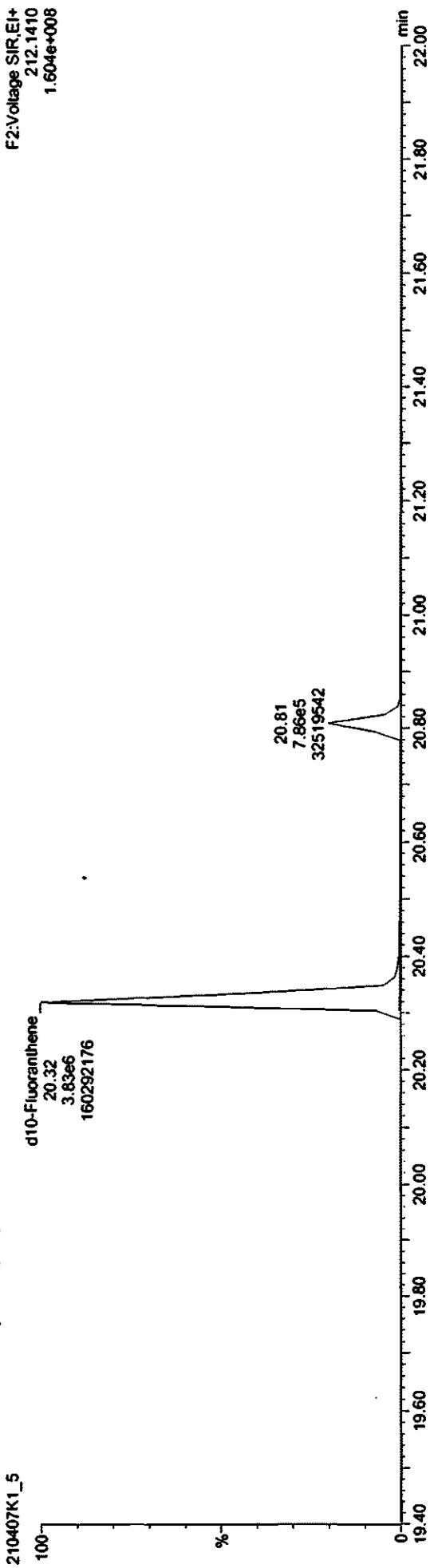
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Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

Fluoranthene; Pyrene



d10-Fluoranthene; d10-Pyrene (RS)



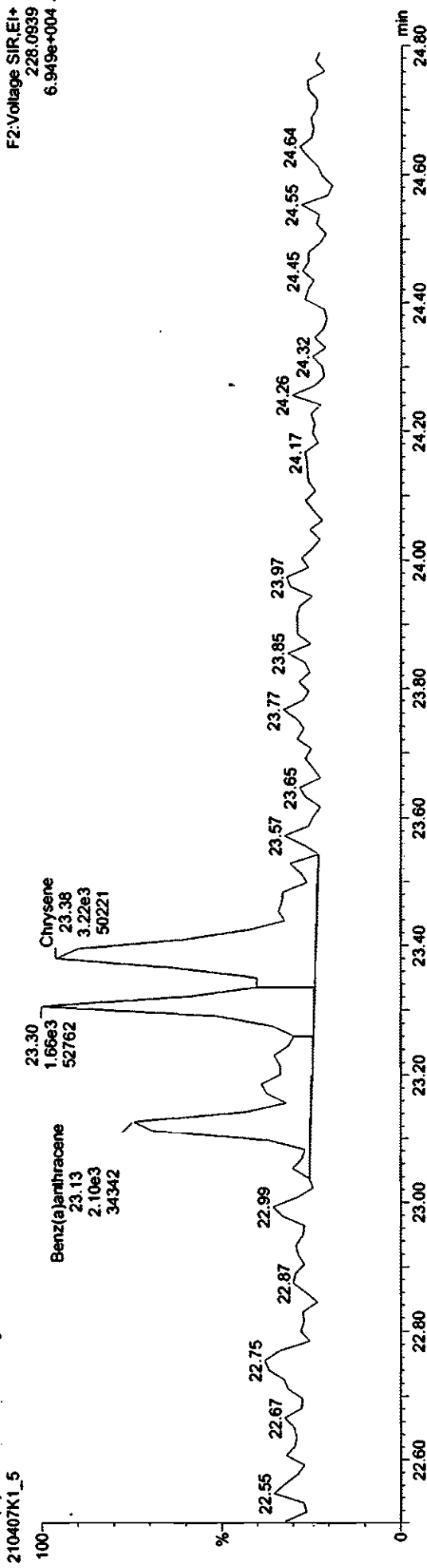
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Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

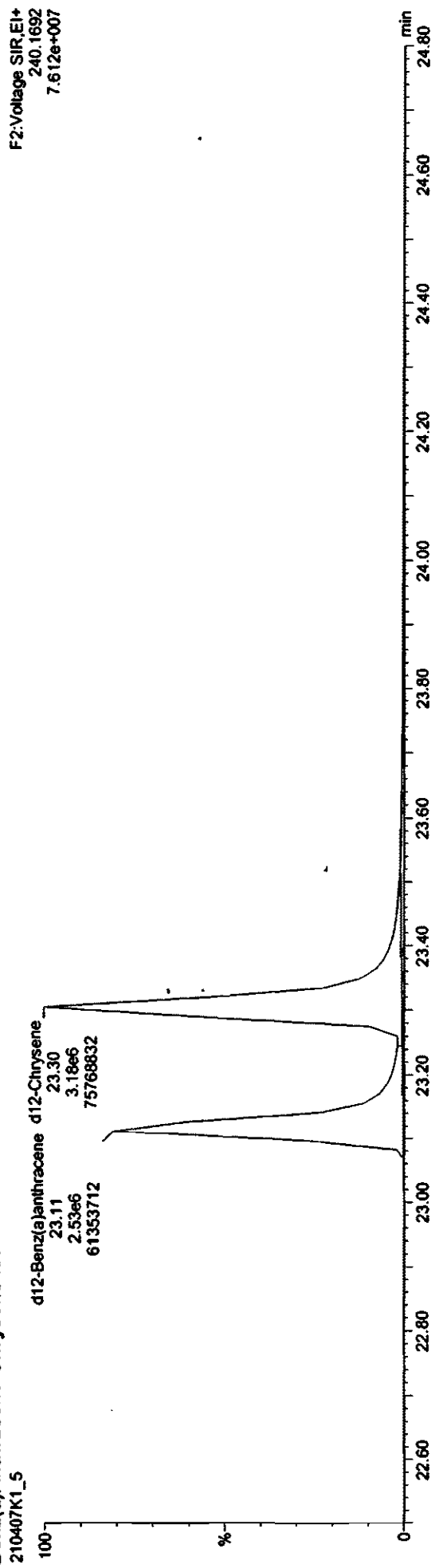
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
6.949e+004



Benz(a)Anthracene-Chrysene-Iso

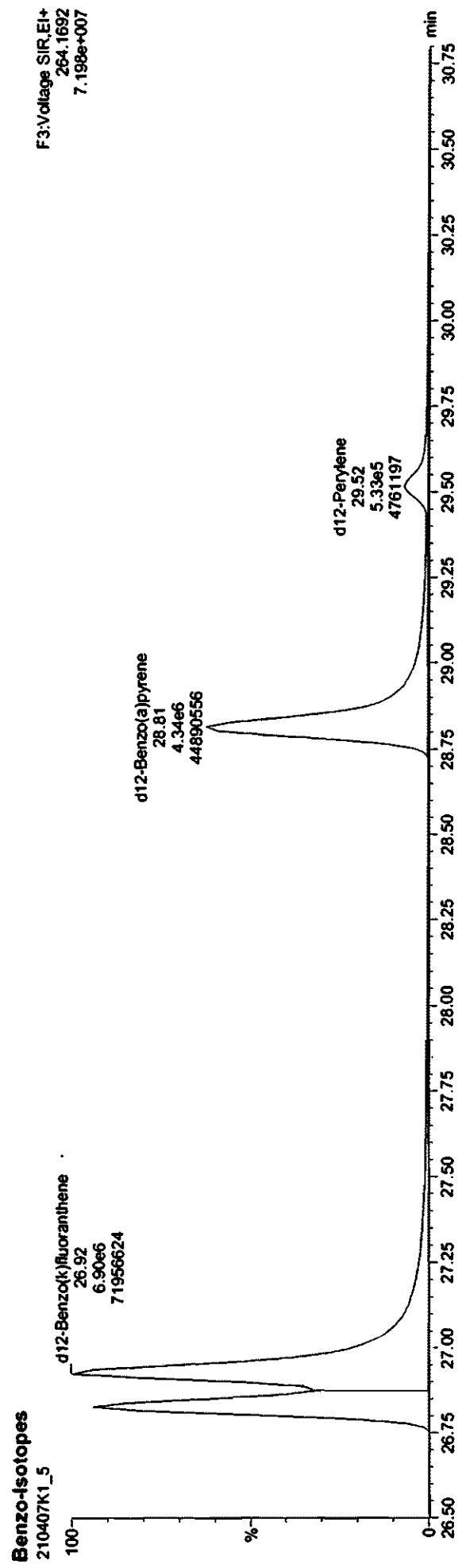
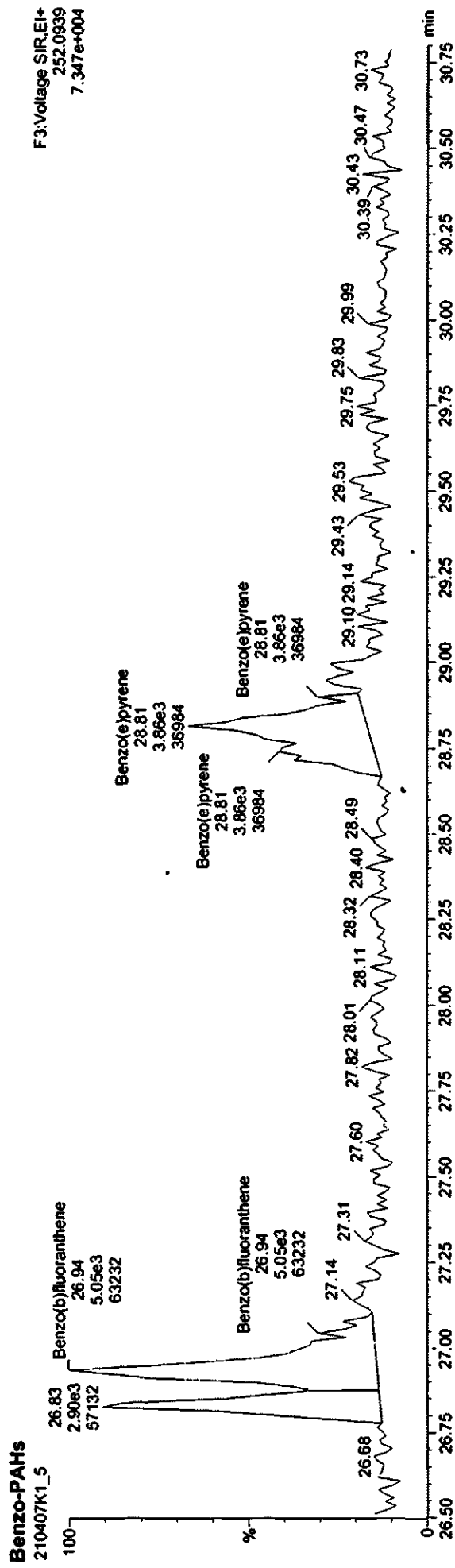
F2:Voltage SIR,EI+
240.1692
7.612e+007



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

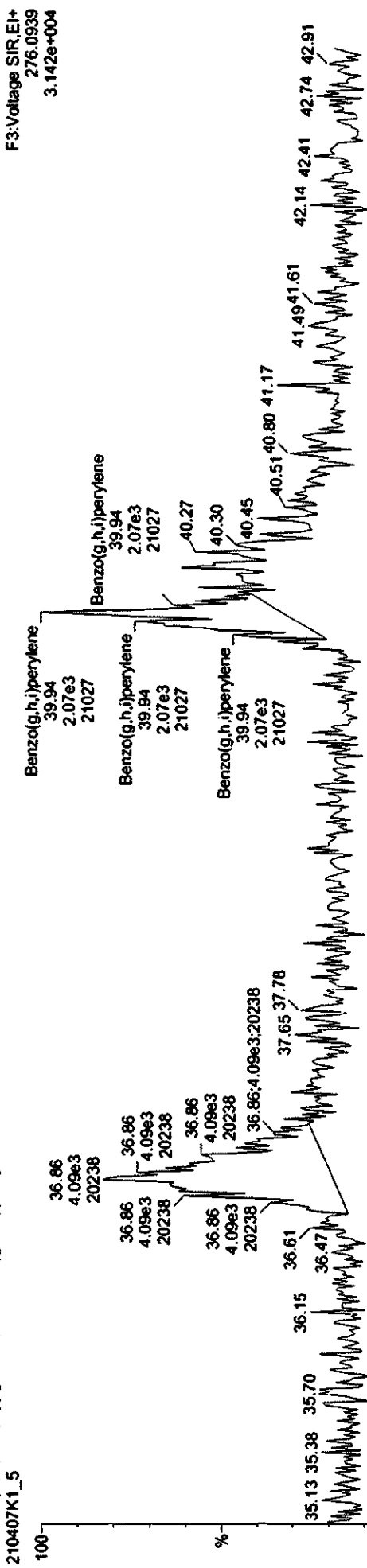


Dataset: Untitled

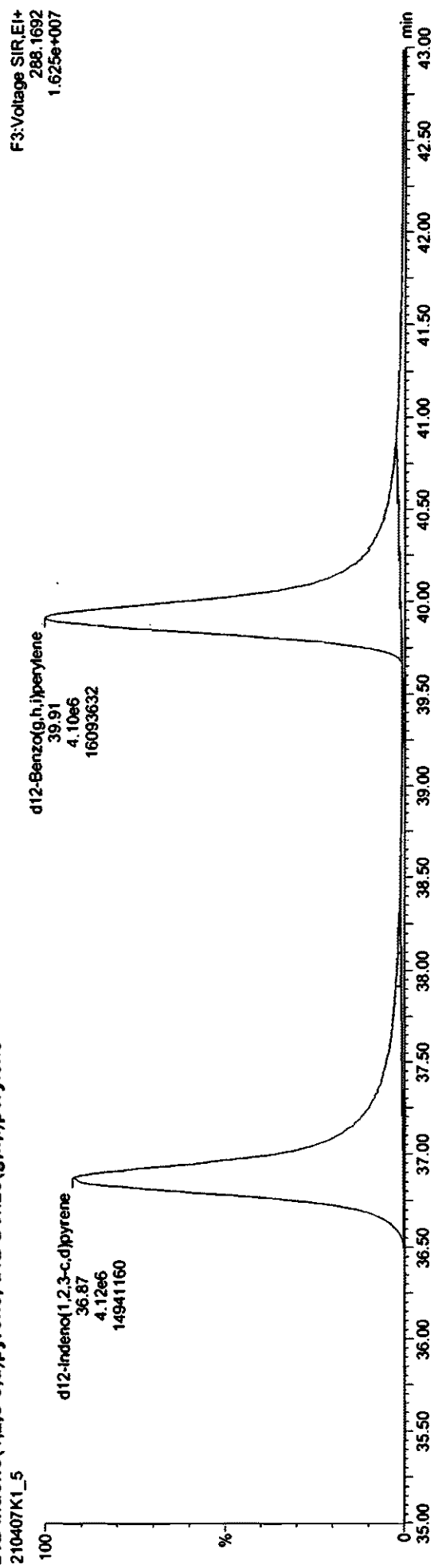
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
 Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

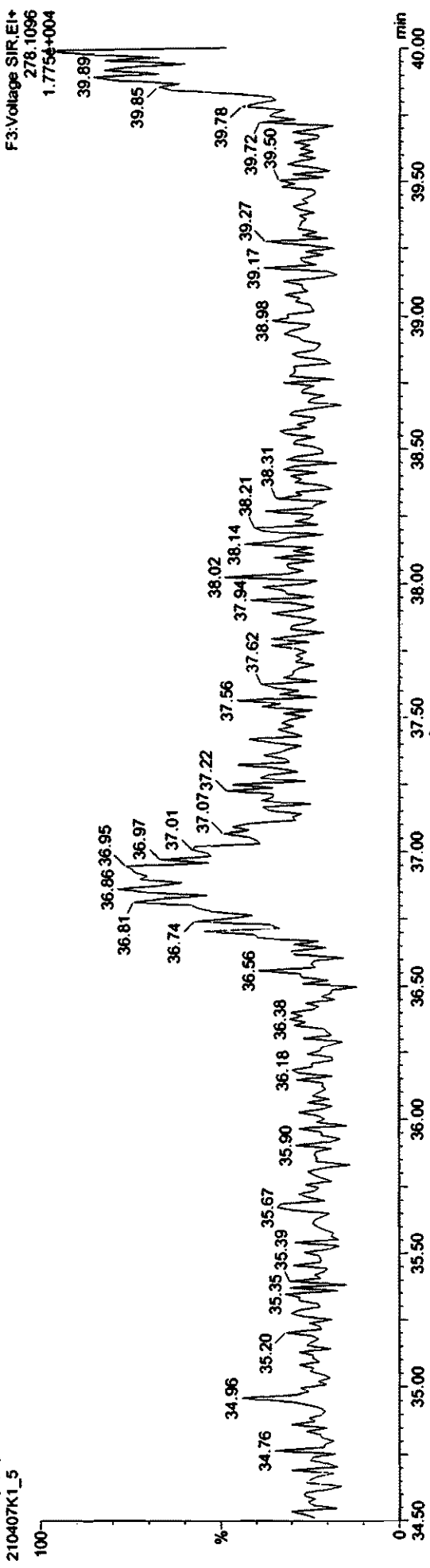


Dataset: Untitled

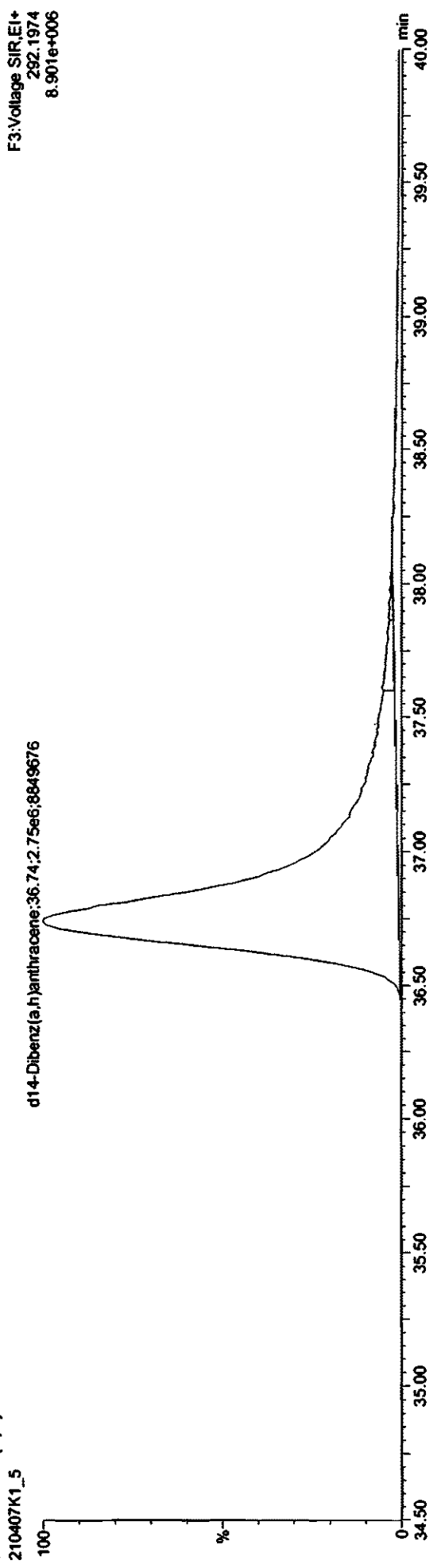
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_5, Date: 07-Apr-2021, Time: 19:20:52, ID: 2103102-02@500X 21-0883 Inlet 2 1, Description: 21-0883 Inlet 2

Dibenz(a,h)anthracene



d14-Dibenz(a,h)anthracene



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

HC 4.7.2021

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 11:31:04 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:31:21 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\IPAH-4-1-21.mdb 01 Apr 2021 13:23:22

Calibration: U:\VG11.PRO\CurveDB\ibdb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

| # | Name | Resp | IS Resp | RRF | wVol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|--------------------------|--------|---------|--------|-------|---------|-------|----------|-------|---------|--------------|---------|-------|
| 1 | Naphthalene | 2.00e8 | 1.08e6 | 1.16 | 1.000 | 10.17 | 10.30 | 1.006 | 1.018 | YES | 1.9e9000 SAT | * | 1080 |
| 2 | Naphthalene-2nd | 3.47e7 | 1.08e6 | 0.128 | 1.000 | 10.17 | 10.33 | 1.006 | 1.021 | YES | 8.5e200 SAT | * | 4920 |
| 3 | 2-Methylnaphthalene | 1.47e8 | 6.71e5 | 1.38 | 1.000 | 11.64 | 11.74 | 0.794 | 0.801 | YES | 2.4e9000 SAT | * | 258 |
| 4 | Acenaphthylene | 7.08e6 | 4.00e6 | 1.12 | 1.000 | 14.41 | 14.43 | 1.003 | 1.004 | NO | 317 | * | 336 |
| 5 | Acenaphthene | 3.04e7 | 6.71e5 | 1.10 | 1.000 | 14.74 | 14.76 | 1.006 | 1.007 | NO | 8220E | * | 402 |
| 6 | Fluorene | 3.09e7 | 6.82e5 | 1.15 | 1.000 | 15.95 | 15.95 | 1.006 | 1.006 | NO | 7860E | * | 242 |
| 7 | Phenanthrene | 3.95e7 | 4.16e5 | 1.19 | 1.000 | 18.33 | 18.31 | 1.002 | 1.001 | NO | 169000 SAT | * | 465 |
| 8 | Phenanthrene-2nd | 7.77e6 | 4.16e5 | 0.0925 | 1.000 | 18.33 | 18.31 | 1.002 | 1.001 | NO | 40400E | * | 5770 |
| 9 | Anthracene | 2.54e7 | 4.16e5 | 1.09 | 1.000 | 18.39 | 18.34 | 1.005 | 1.002 | NO | 11200E | * | 507 |
| 10 | Fluoranthene | 7.72e6 | 2.32e6 | 1.10 | 1.000 | 20.37 | 20.35 | 1.002 | 1.001 | NO | 605E | * | 10.9 |
| 11 | Pyrene | 2.01e7 | 2.32e6 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 1450E | * | 9.97 |
| 12 | Benz(a)anthracene | 1.66e5 | 2.29e6 | 0.961 | 1.000 | 23.16 | 23.16 | 1.003 | 1.003 | NO | 15.1 | * | 1.23 |
| 13 | Chrysene | 1.12e6 | 2.51e6 | 0.852 | 1.000 | 23.37 | 23.36 | 1.003 | 1.003 | NO | 105 | * | 1.28 |
| 14 | Benzo(b)fluoranthene | 7.06e5 | 4.02e6 | 1.10 | 1.000 | 26.94 | 26.91 | 1.005 | 1.004 | NO | 63.6 | * | 0.125 |
| 15 | Benzo(k)fluoranthene | 1.80e5 | 4.44e6 | 1.04 | 1.000 | 27.02 | 27.01 | 1.004 | 1.004 | NO | 15.6 | * | 0.134 |
| 16 | Benzo(e)pyrene | 4.67e6 | 4.44e6 | 0.911 | 1.000 | 28.70 | 28.72 | 1.067 | 1.068 | NO | 461 | * | 0.152 |
| 17 | Benzo(a)pyrene | 4.66e5 | 3.64e6 | 1.02 | 1.000 | 28.97 | 28.95 | 1.006 | 1.005 | NO | 50.4 | * | 0.187 |
| 18 | Perylene | 9.75e4 | 3.64e6 | 0.987 | 1.000 | 29.71 | 29.66 | 1.031 | 1.030 | NO | 10.8 | * | 0.193 |
| 19 | Indeno(1,2,3-c,d)pyrene | 5.72e5 | 2.71e6 | 0.915 | 1.000 | 36.73 | 36.73 | 1.007 | 1.007 | NO | 92.4 | * | 0.654 |
| 20 | Benzo(g,h,i)perylene | 4.13e6 | 2.69e6 | 0.940 | 1.000 | 40.08 | 40.04 | 1.009 | 1.008 | NO | 654E | * | 0.762 |
| 21 | Dibenz(a,h)anthracene | 1.08e6 | 2.40e6 | 0.948 | 1.000 | 36.66 | | 1.011 | | NO | | * | 0.491 |
| 22 | d8-Naphthalene | 4.00e6 | 2.35e6 | 1.20 | 1.000 | 10.23 | 10.12 | 0.848 | 0.839 | YES | 76.3 | -88.1 * | 15.2 |
| 23 | d8-Acenaphthylene | 6.71e5 | 2.35e6 | 0.905 | 1.000 | 14.49 | 14.37 | 1.201 | 1.191 | YES | 375 | -88.1 * | 125 |
| 24 | d10-Acenaphthene | 6.82e5 | 2.35e6 | 0.594 | 1.000 | 14.78 | 14.66 | 1.226 | 1.215 | YES | 95.9 | 48.0 * | 39.2 |
| 25 | d10-Fluorene | 4.16e5 | 2.35e6 | 0.563 | 1.000 | 16.04 | 15.86 | 1.330 | 1.315 | YES | 103 | 51.5 * | 57.7 |
| 26 | d10-Phenanthrene | 2.32e6 | 2.35e6 | 0.735 | 1.000 | 18.49 | 18.29 | 1.533 | 1.517 | YES | 48.0 | 24.0 * | 54.6 |
| 27 | d10-Fluoranthene | 2.29e6 | 2.35e6 | 1.29 | 1.000 | 20.31 | 20.32 | 0.977 | 0.977 | NO | 153 | 76.6 * | 3.21 |
| 28 | d12-Benz(a)anthracene | 2.51e6 | 2.35e6 | 0.900 | 1.000 | 23.09 | 23.10 | 1.110 | 1.111 | NO | 216 | 108 | 2.17 |
| 29 | d12-Chrysene | 4.02e6 | 2.35e6 | 1.02 | 1.000 | 23.28 | 23.29 | 1.120 | 1.120 | NO | 208 | 104 | 1.91 |
| 30 | d12-Benzo(b)fluoranthene | 4.44e6 | 1.96e6 | 1.18 | 1.000 | 26.76 | 26.80 | 0.907 | 0.909 | NO | 347 | 86.9 | 0.134 |
| 31 | d12-Benzo(k)fluoranthene | 4.44e6 | 1.96e6 | 1.50 | 1.000 | 26.87 | 26.90 | 0.911 | 0.912 | NO | 302 | 75.5 | 0.106 |

SL on 75 not 10.1
X see d.1

Quantify Sample Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 11:31:04 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 11:31:21 AM Pacific Daylight Time

Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

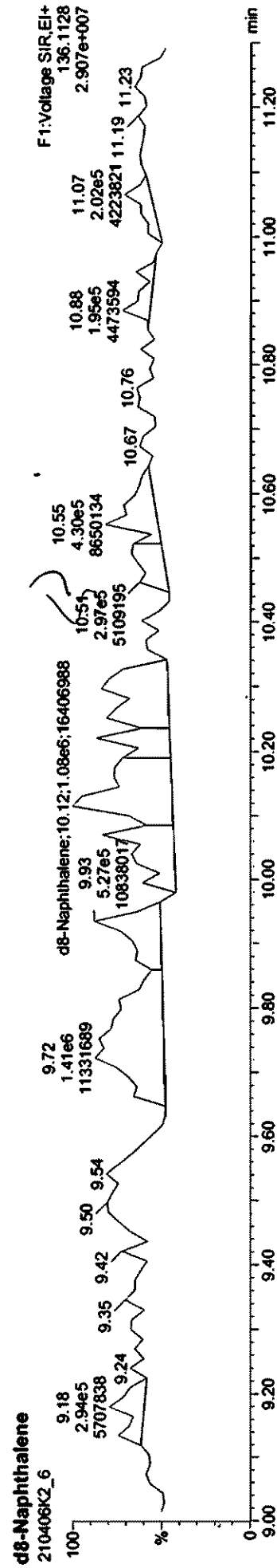
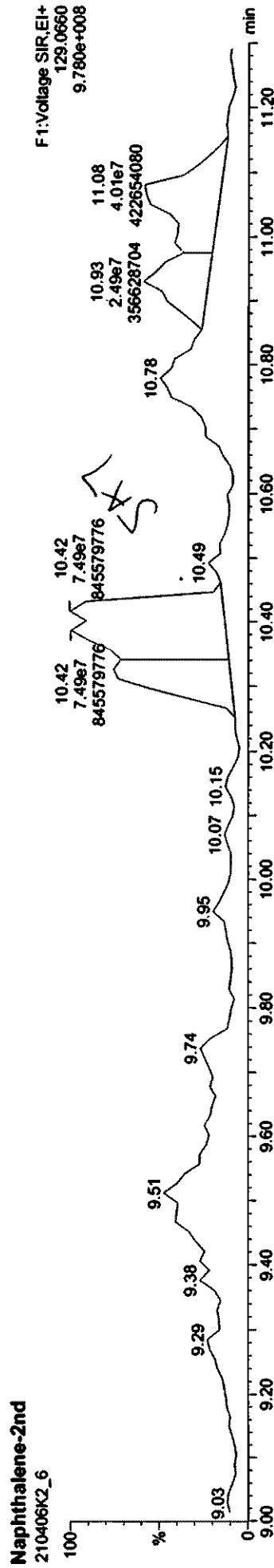
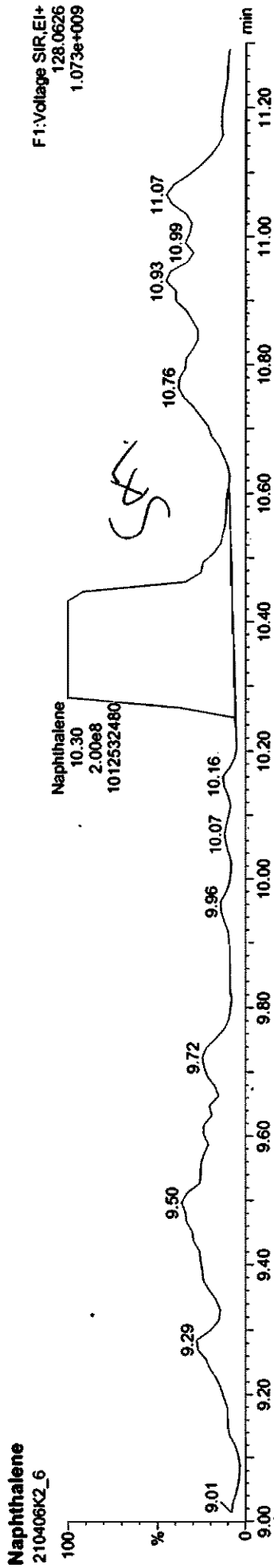
| L# | Name | Resp | IS Resp | RRF | wVol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|--------------------|------|------|-------|
| 32 | d12-Benzo(a)pyrene | 3.64e6 | 1.96e6 | 1.24 | 1.000 | 28.76 | 28.80 | 0.975 | 0.977 | NO | 301 | 75.1 | 0.128 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 2.71e6 | 1.96e6 | 1.02 | 1.000 | 36.78 | 36.49 | 1.247 | 1.237 | NO | 272 | 67.9 | 0.195 |
| 34 | d12-Benzo(g,h,i)perylene | 2.69e6 | 1.96e6 | 1.00 | 1.000 | 40.18 | 39.71 | 1.362 | 1.346 | YES 0 ¹ | 273 | 68.2 | 0.197 |
| 35 | d14-Dibenz(a,h)anthracene | 2.40e6 | 1.96e6 | 0.765 | 1.000 | 36.55 | 36.25 | 1.239 | 1.229 | YES 0 ⁴ | 321 | 80.2 | 0.195 |
| 36 | d10-Anthracene | 5.86e5 | 1.96e6 | 0.989 | 1.000 | 18.58 | 18.35 | 1.541 | 1.522 | YES 0 ³ | 60.5 | 30.3 | 119 |
| 37 | d14-Terphenyl | 4.63e6 | 2.32e6 | 0.576 | 1.000 | 20.69 | 20.70 | 1.018 | 1.019 | NO | 692 | 138 | 0.517 |
| 38 | d12-Benzo(e)pyrene | 4.61e6 | 4.44e6 | 0.738 | 1.000 | 28.52 | 28.55 | 1.060 | 1.061 | NO | 563 | 113 | 0.161 |
| 39 | d10-1-Methylnaphthalene | 6.88e5 | 6.88e5 | 1.00 | 1.000 | 11.93 | 12.06 | 1.000 | 1.000 | YES 0 ^Y | 200 | 100 | 173 |
| 40 | d10-Pyrene | 2.35e6 | 2.35e6 | 1.00 | 1.000 | 20.81 | 20.79 | 1.000 | 1.000 | NO | 200 | 100 | 4.12 |
| 41 | d12-Perylene | 1.96e6 | 1.96e6 | 1.00 | 1.000 | 29.59 | 29.49 | 1.000 | 1.000 | NO | 200 | 100 | 0.159 |

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 10:18:59 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:19:12 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

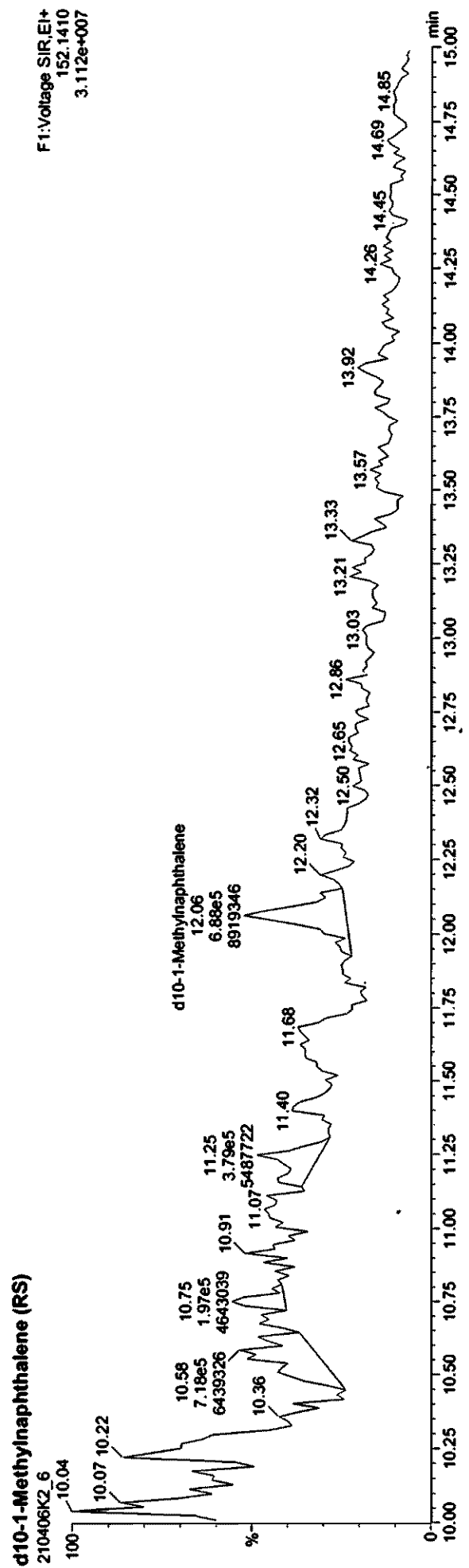
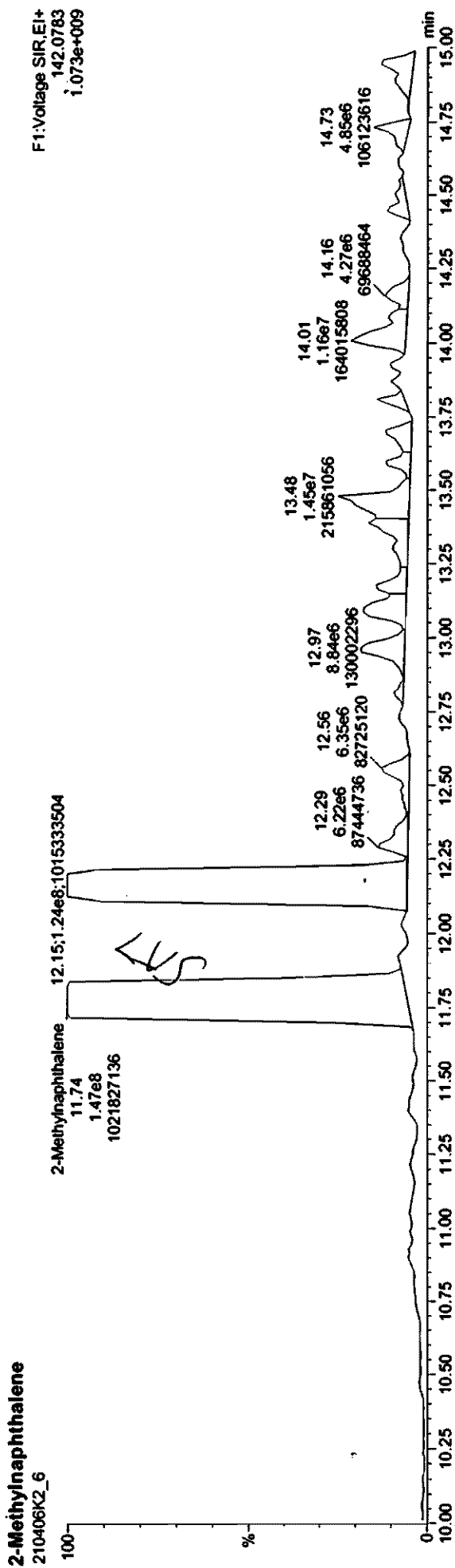
Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 10:18:59 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:19:12 AM Pacific Daylight Time

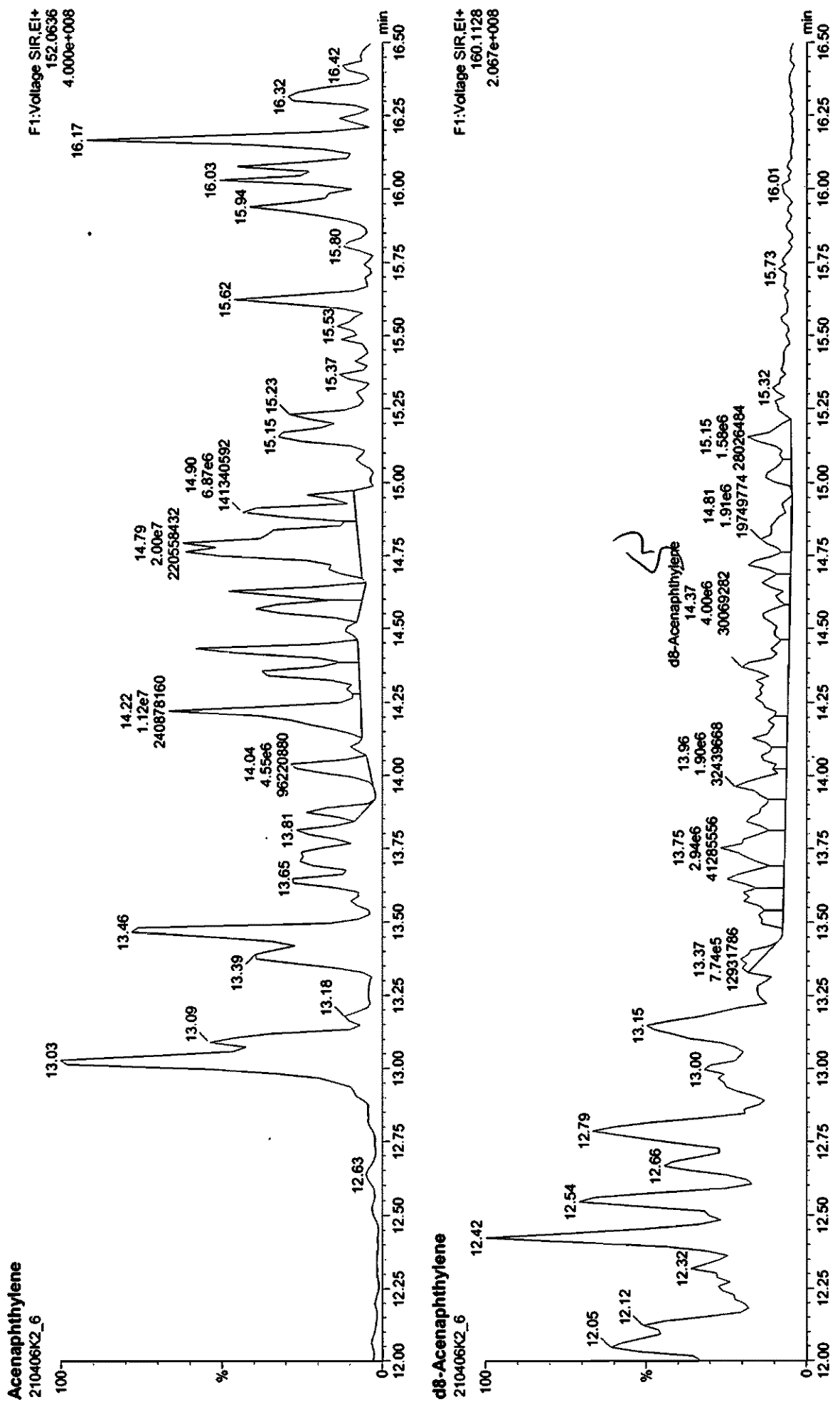
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Dataset: U:\WG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 10:18:59 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:19:12 AM Pacific Daylight Time

Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

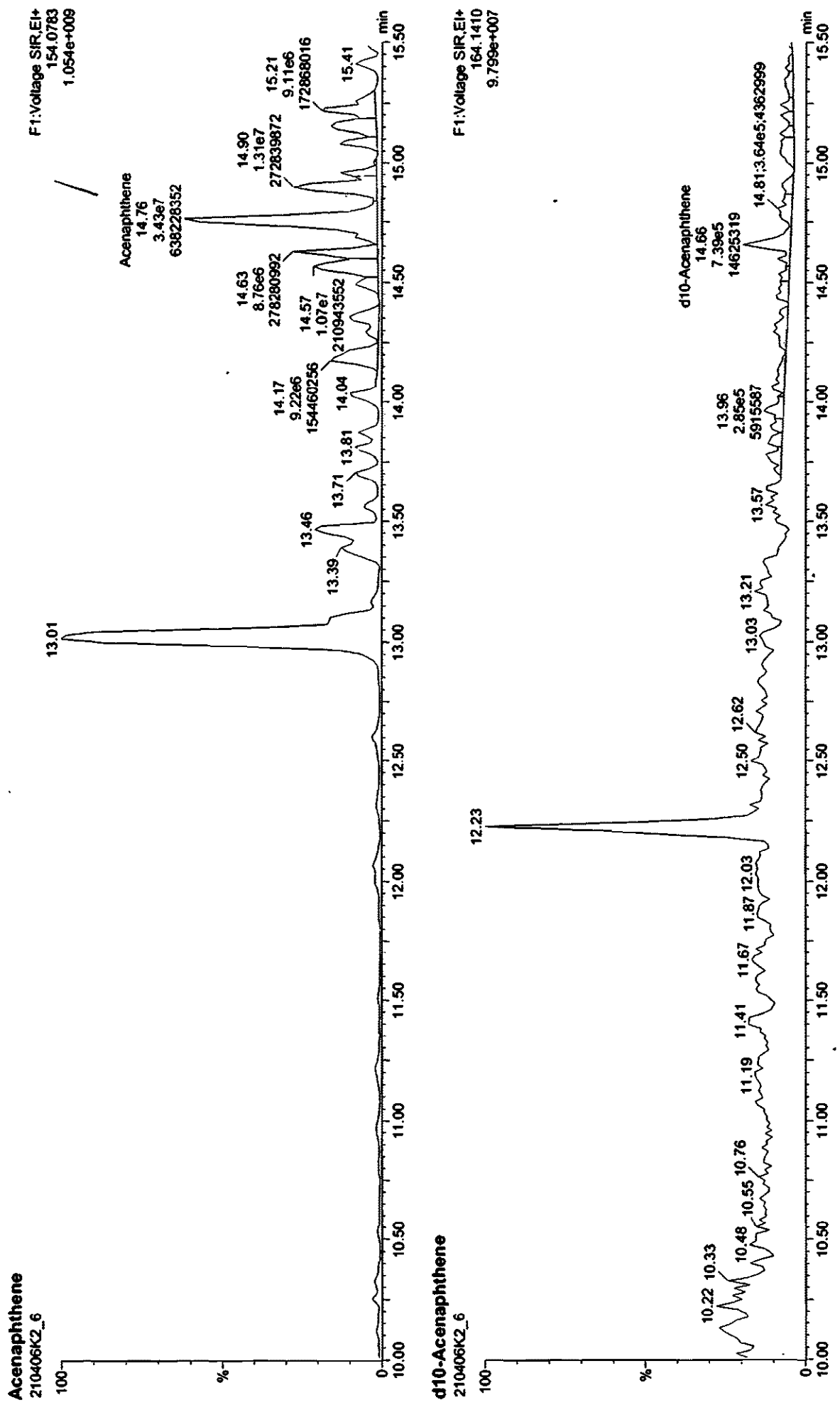


Quantify Sample Report
Vista Analytical Laboratory

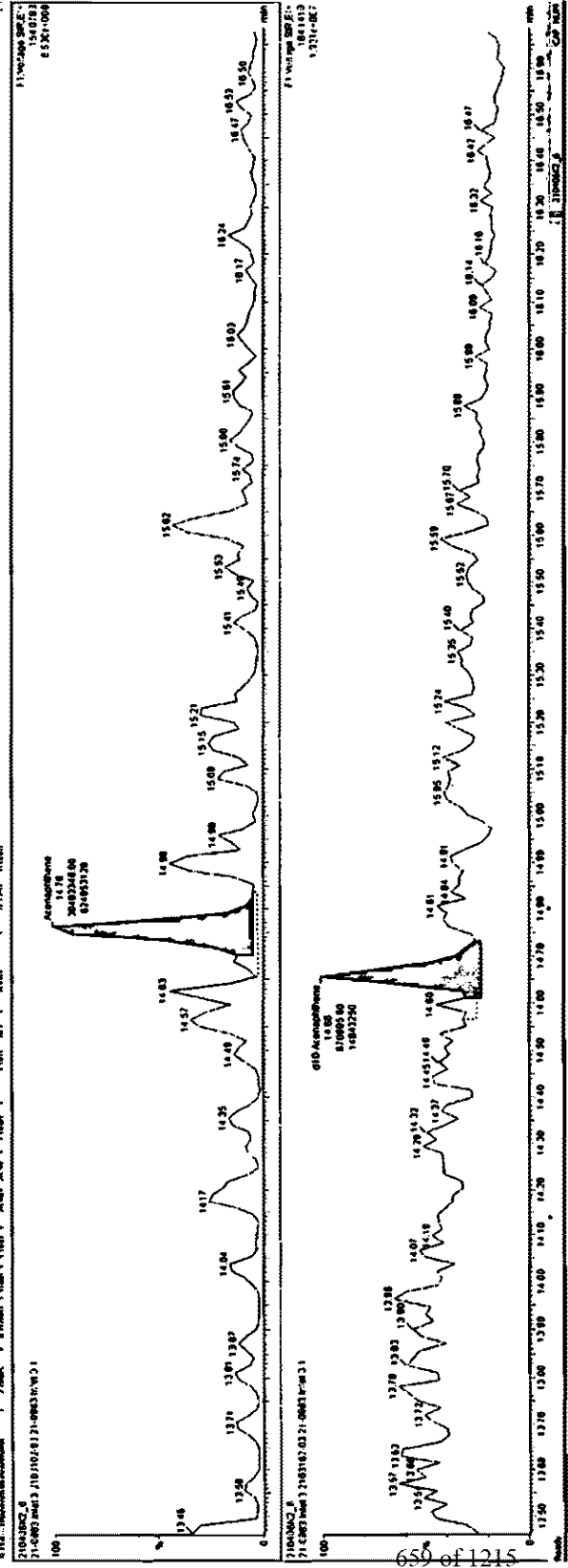
Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 10:18:59 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:19:12 AM Pacific Daylight Time

Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



| Peak | Retention Time (min) | Area | Height | Width | Resolution | Signal | Integration | Area% | Height% |
|------|----------------------|------|--------|-------|------------|--------|-------------|-------|---------|
| 1 | 13.45 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 2 | 13.72 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 3 | 13.81 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 4 | 13.87 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 5 | 14.04 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 6 | 14.17 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 7 | 14.25 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 8 | 14.37 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 9 | 14.48 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 10 | 14.57 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 11 | 14.68 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 12 | 14.78 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 13 | 14.81 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 14 | 14.83 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 15 | 14.90 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 16 | 14.98 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 17 | 15.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 18 | 15.03 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 19 | 15.05 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 20 | 15.08 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 21 | 15.14 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 22 | 15.21 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 23 | 15.24 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 24 | 15.26 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 25 | 15.30 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 26 | 15.32 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 27 | 15.33 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 28 | 15.34 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 29 | 15.35 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 30 | 15.36 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 31 | 15.37 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 32 | 15.38 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 33 | 15.39 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 34 | 15.40 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 35 | 15.41 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 36 | 15.42 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 37 | 15.43 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 38 | 15.44 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 39 | 15.45 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 40 | 15.46 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 41 | 15.47 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 42 | 15.48 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 43 | 15.49 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 44 | 15.50 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 45 | 15.51 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 46 | 15.52 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 47 | 15.53 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 48 | 15.54 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 49 | 15.55 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 50 | 15.56 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 51 | 15.57 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 52 | 15.58 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 53 | 15.59 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 54 | 15.60 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 55 | 15.61 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 56 | 15.62 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 57 | 15.63 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 58 | 15.64 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 59 | 15.65 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 60 | 15.66 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 61 | 15.67 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 62 | 15.68 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 63 | 15.69 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 64 | 15.70 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 65 | 15.71 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 66 | 15.72 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 67 | 15.73 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 68 | 15.74 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 69 | 15.75 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 70 | 15.76 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 71 | 15.77 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 72 | 15.78 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 73 | 15.79 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 74 | 15.80 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 75 | 15.81 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 76 | 15.82 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 77 | 15.83 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 78 | 15.84 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 79 | 15.85 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 80 | 15.86 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 81 | 15.87 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 82 | 15.88 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 83 | 15.89 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 84 | 15.90 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 85 | 15.91 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 86 | 15.92 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 87 | 15.93 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 88 | 15.94 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 89 | 15.95 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 90 | 15.96 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 91 | 15.97 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 92 | 15.98 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 93 | 15.99 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 94 | 16.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 95 | 16.01 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 96 | 16.02 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 97 | 16.03 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 98 | 16.04 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 99 | 16.05 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |
| 100 | 16.06 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 0.01 | 0.01 |

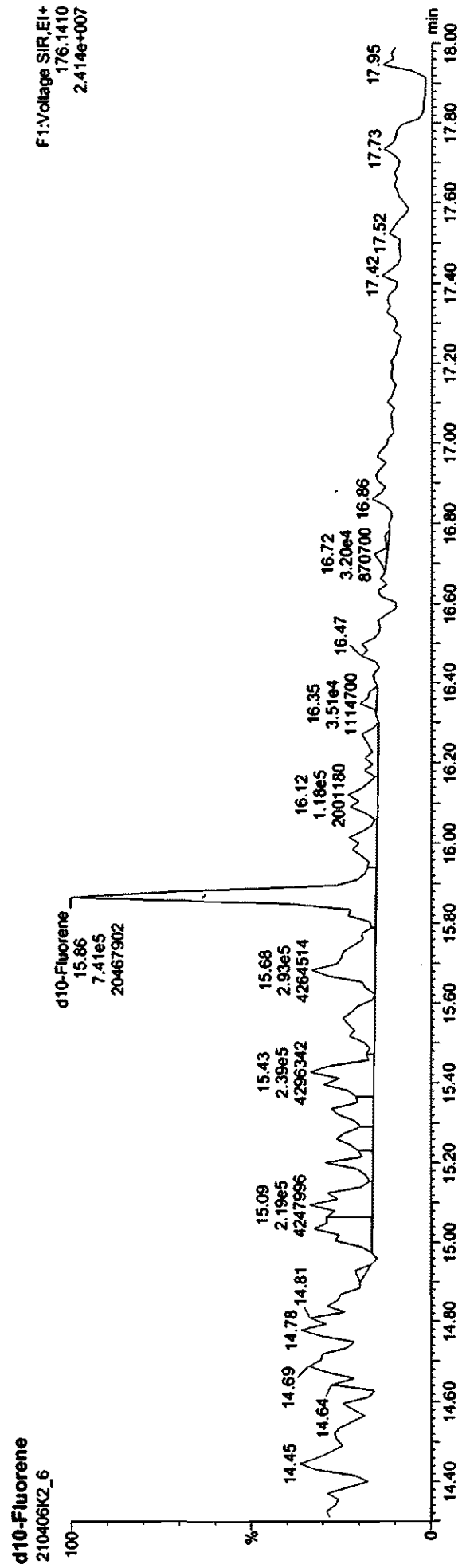
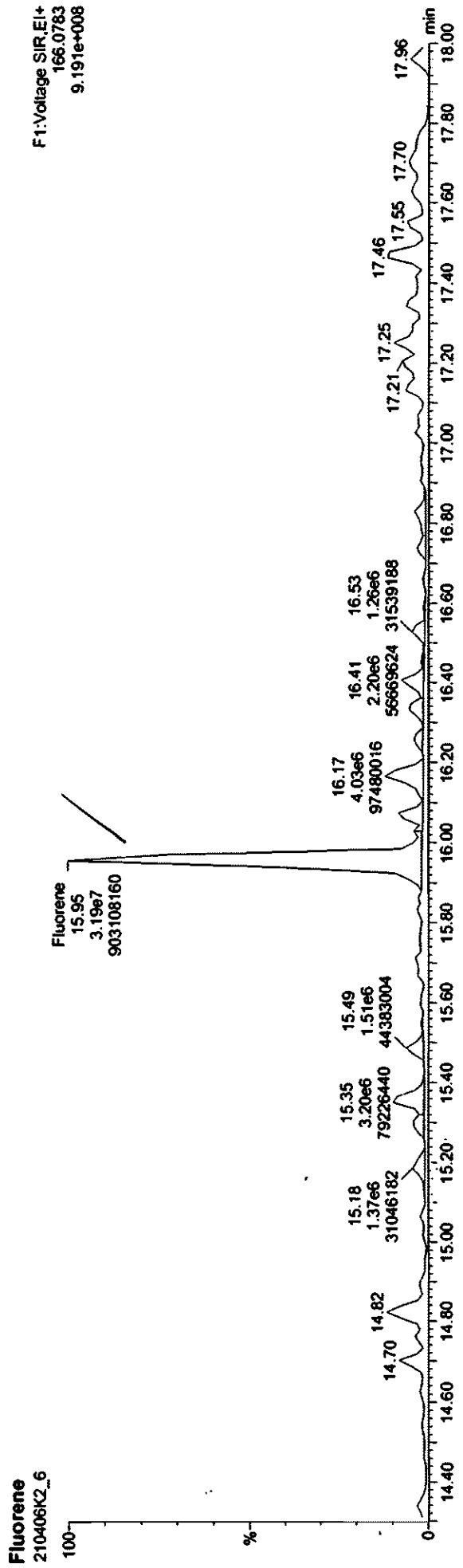


Quantify Sample Report
Vista Analytical Laboratory

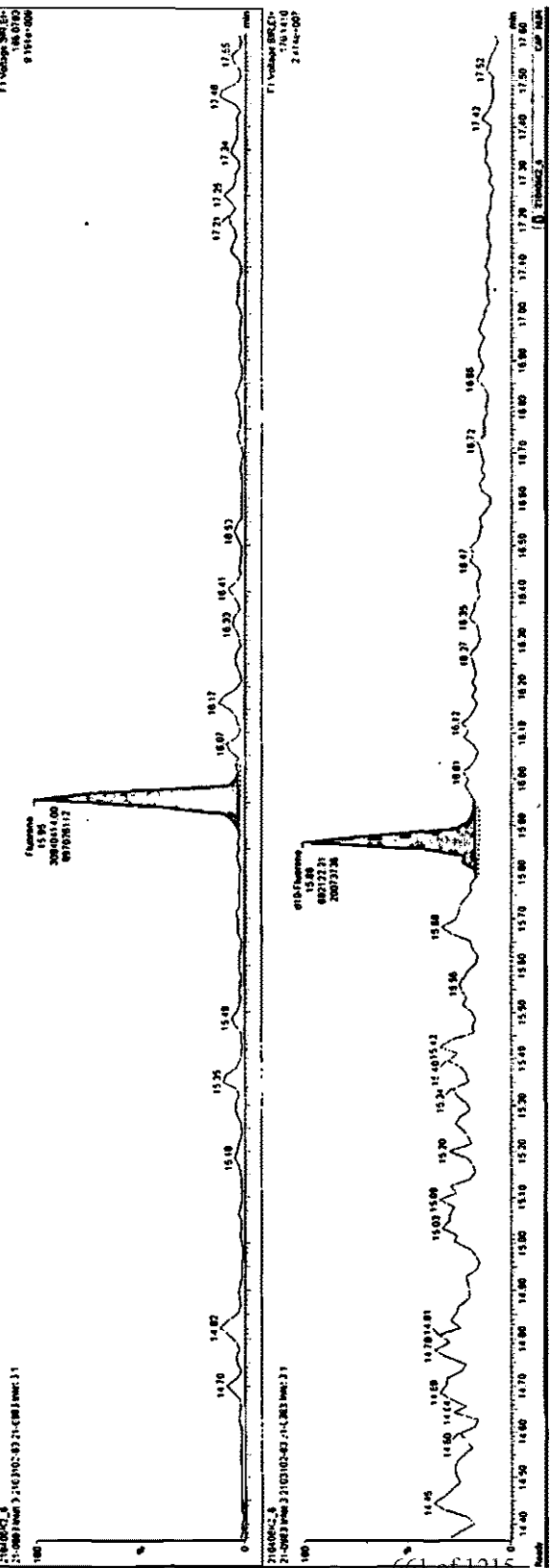
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Printed: Wednesday, April 07, 2021 10:19:12 AM Pacific Daylight Time

Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



| Peak | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Height/Width | Area/Height | Height/Width | Area/Height |
|------|----------------------|------|--------|-------|--------------|-------------|--------------|-------------|--------------|-------------|
| 1 | 14.45 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2 | 14.60 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 3 | 14.67 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 4 | 14.70 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 5 | 14.82 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 6 | 15.18 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 7 | 15.35 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 8 | 15.48 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 9 | 15.58 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 10 | 15.70 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 11 | 15.80 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 12 | 15.95 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 13 | 16.00 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 14 | 16.07 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 15 | 16.17 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 16 | 16.23 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 17 | 16.35 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 18 | 16.41 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 19 | 16.47 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 20 | 16.50 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 21 | 16.59 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 22 | 16.70 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 23 | 16.80 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 24 | 16.85 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 25 | 16.95 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 26 | 17.00 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 27 | 17.05 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 28 | 17.20 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 29 | 17.25 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 30 | 17.30 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 31 | 17.40 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 32 | 17.55 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |



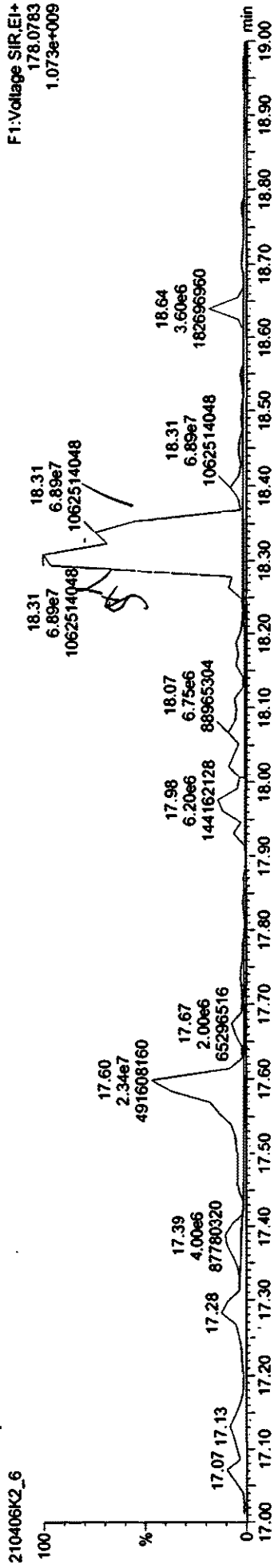
Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

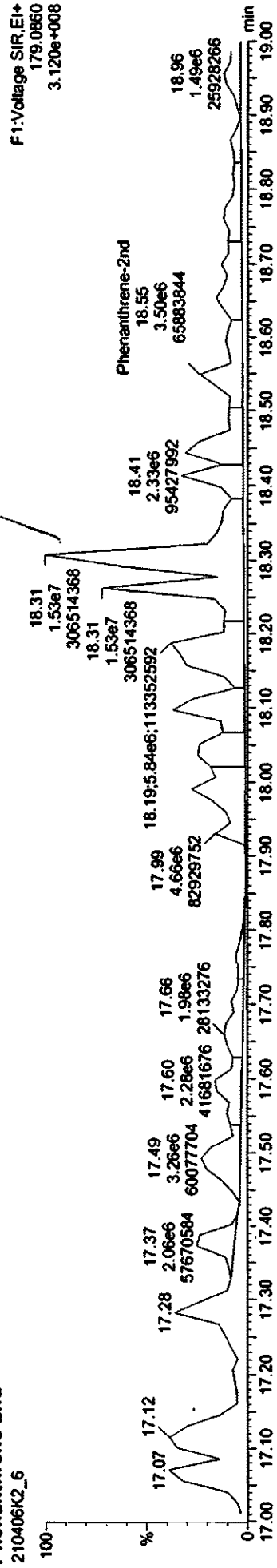
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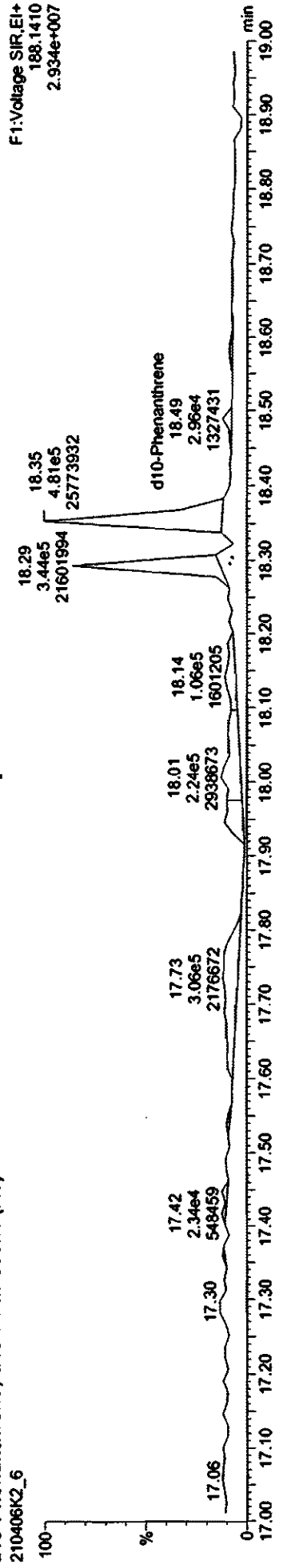
Phenanthrene; Anthrecene



Phenanthrene-2nd

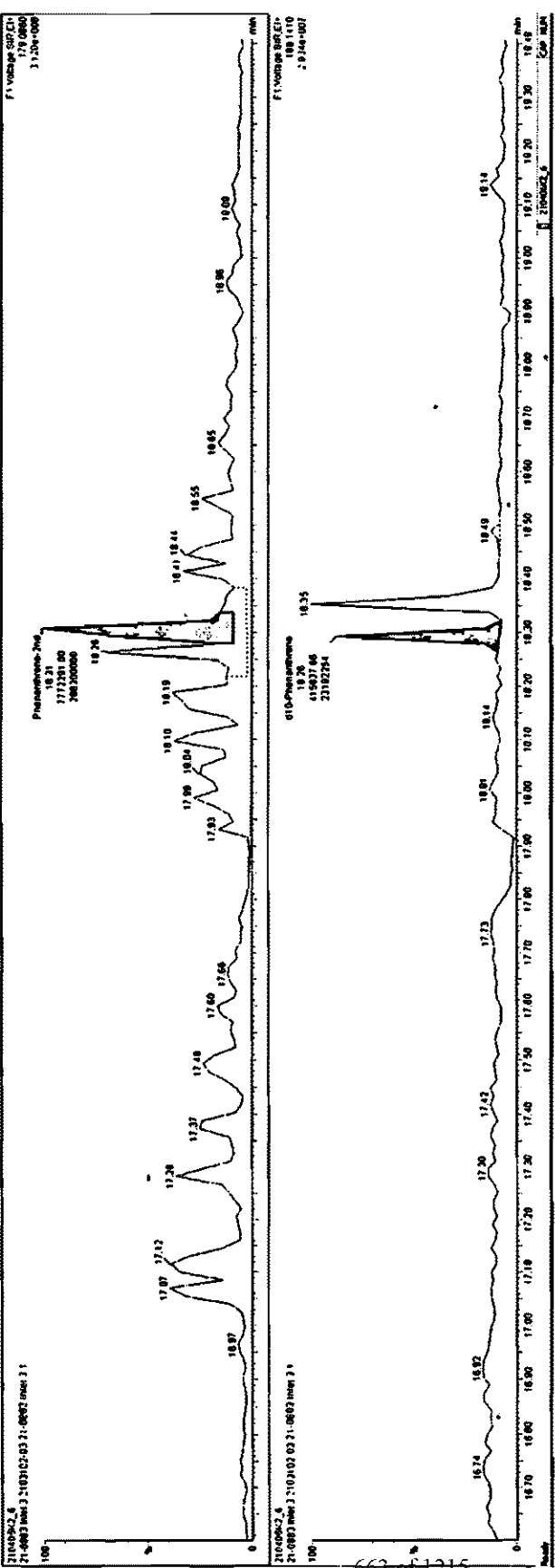


d10-Phenanthrene; d10-Anthrecene (AS)

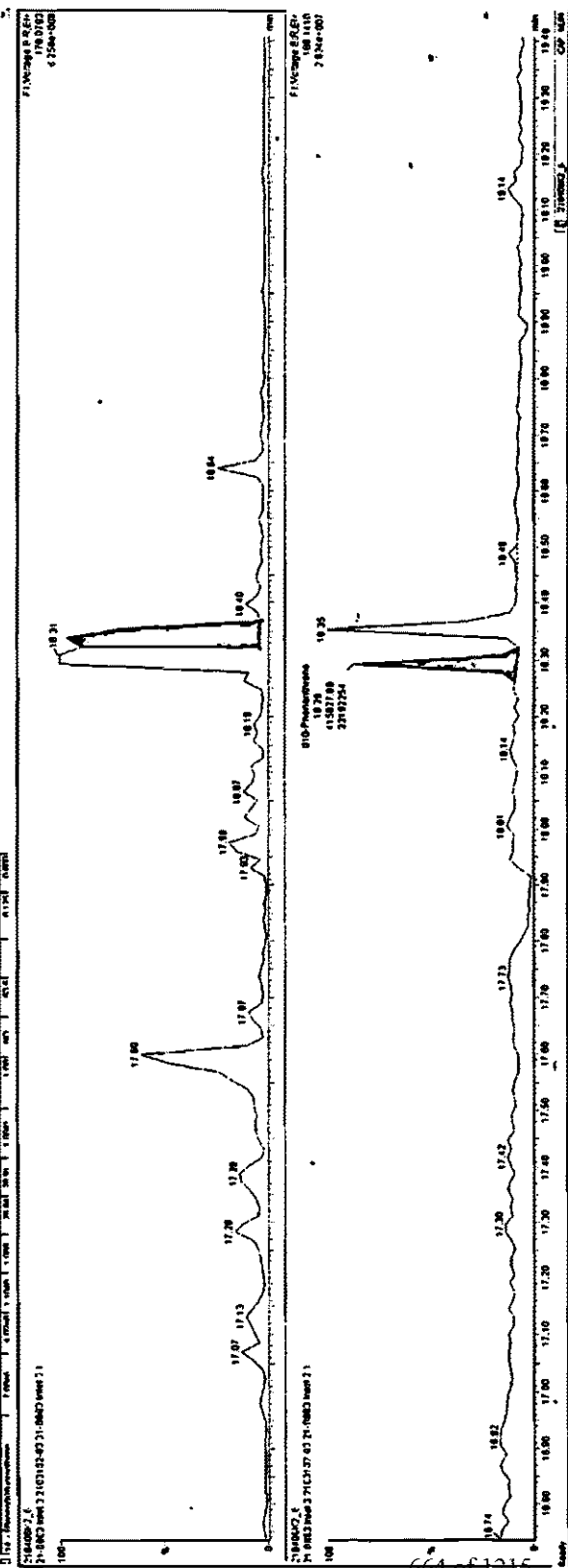




| RT | Area | Height | Width | Peak RT | RT | Area | Height | Width | Peak RT | RT | Area | Height | Width | Peak RT | RT | Area | Height | Width | Peak RT |
|-------|------|--------|-------|---------|-------|------|--------|-------|---------|-------|------|--------|-------|---------|-------|------|--------|-------|---------|
| 17.07 | 2085 | 1.08 | 1.08 | 17.07 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 17.32 | 3197 | 1.08 | 1.08 | 17.32 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 17.48 | 8745 | 1.08 | 1.08 | 17.48 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 17.60 | 4286 | 1.08 | 1.08 | 17.60 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 17.66 | 2247 | 1.08 | 1.08 | 17.66 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 18.35 | 2287 | 1.08 | 1.08 | 18.35 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 18.44 | 2847 | 1.08 | 1.08 | 18.44 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 18.55 | 2716 | 1.08 | 1.08 | 18.55 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 18.86 | 3728 | 1.08 | 1.08 | 18.86 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 19.00 | 3947 | 1.08 | 1.08 | 19.00 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 19.14 | 2464 | 1.08 | 1.08 | 19.14 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |
| 19.28 | 3144 | 1.08 | 1.08 | 19.28 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 | 1.079 | 1.08 | 1.08 | 1.08 | 1.079 |



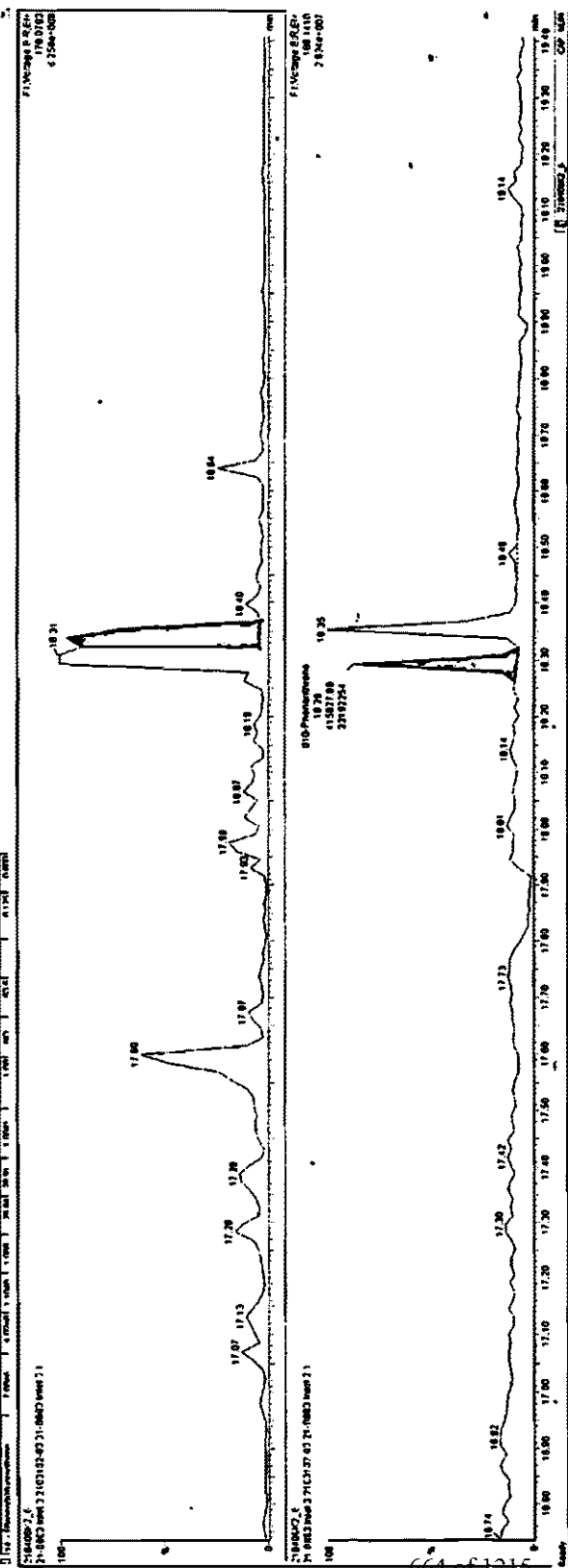
| Time | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|-------|-------|--------|-------|-------|---------|--------|-------|--------|-------|-------|---------|--------|
| 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 |
| 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 |
| 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 |
| 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 |
| 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 |
| 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 |
| 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 |
| 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 |
| 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 |
| 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 |
| 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 |
| 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 |



Langmuir 2103102 6.818 [ChemStation]

100 0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 0.75 0.80 0.85 0.90 0.95 1.00

| Time | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|-------|-------|--------|-------|-------|---------|--------|-------|--------|-------|-------|---------|--------|
| 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 | 17.07 |
| 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 | 17.13 |
| 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 | 17.29 |
| 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 | 17.36 |
| 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 | 17.60 |
| 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 | 17.79 |
| 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 | 17.89 |
| 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 | 18.01 |
| 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 | 18.14 |
| 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 | 18.25 |
| 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 | 18.31 |
| 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 |
| 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 | 18.54 |



Quantify Sample Report
Vista Analytical Laboratory

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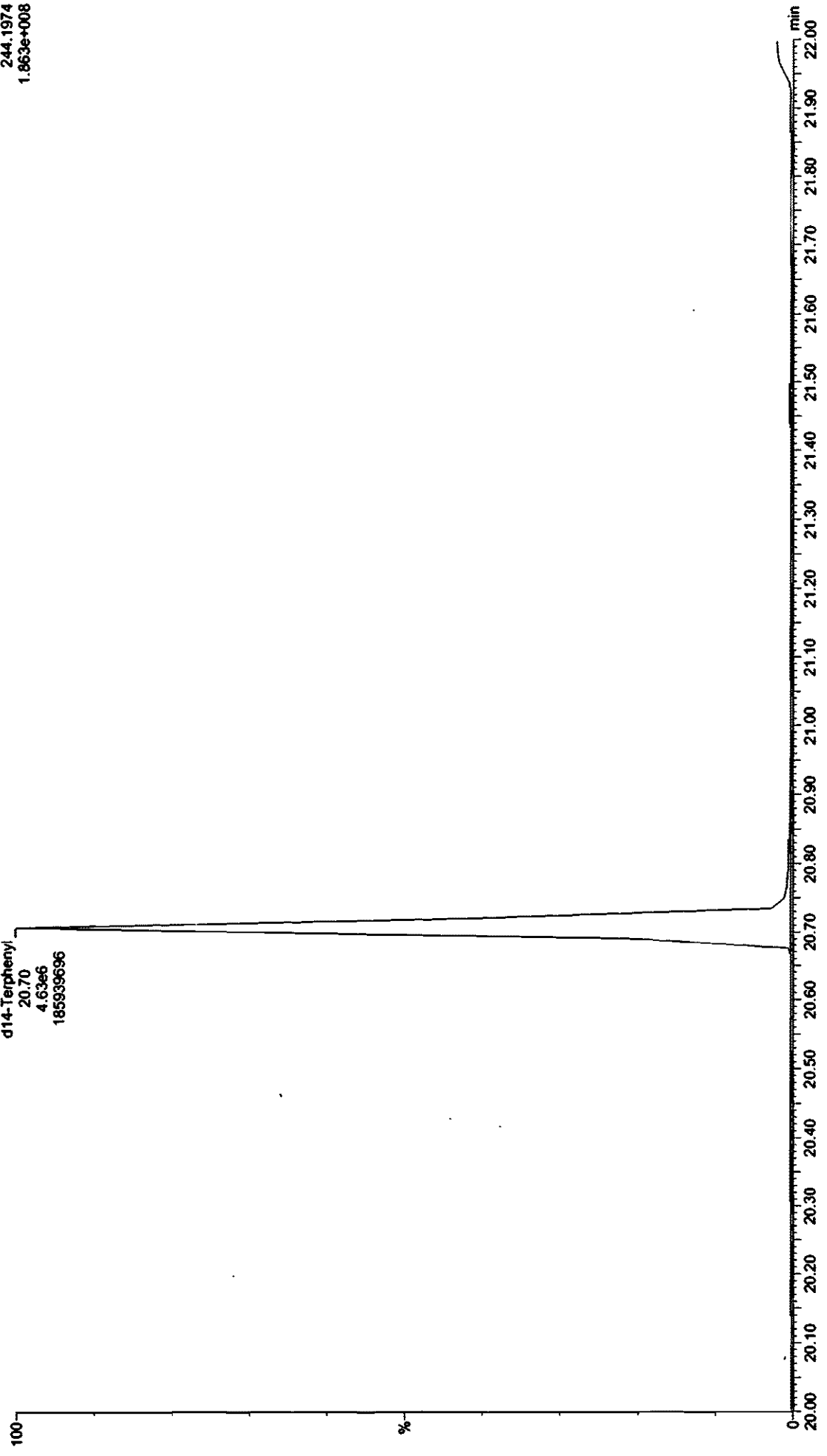
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Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

d14-Terphenyl (PS)
210406K2_6

F2:Voltage SIR,EI+
244.1974
1.863e+008

d14-Terphenyl
20.70
4.63e6
185939696



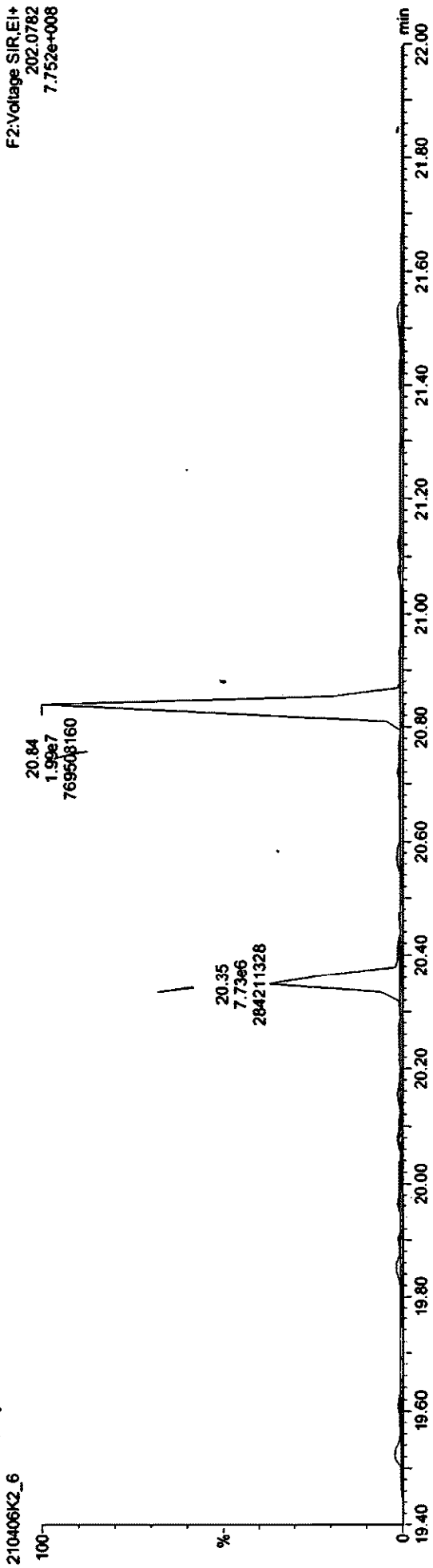
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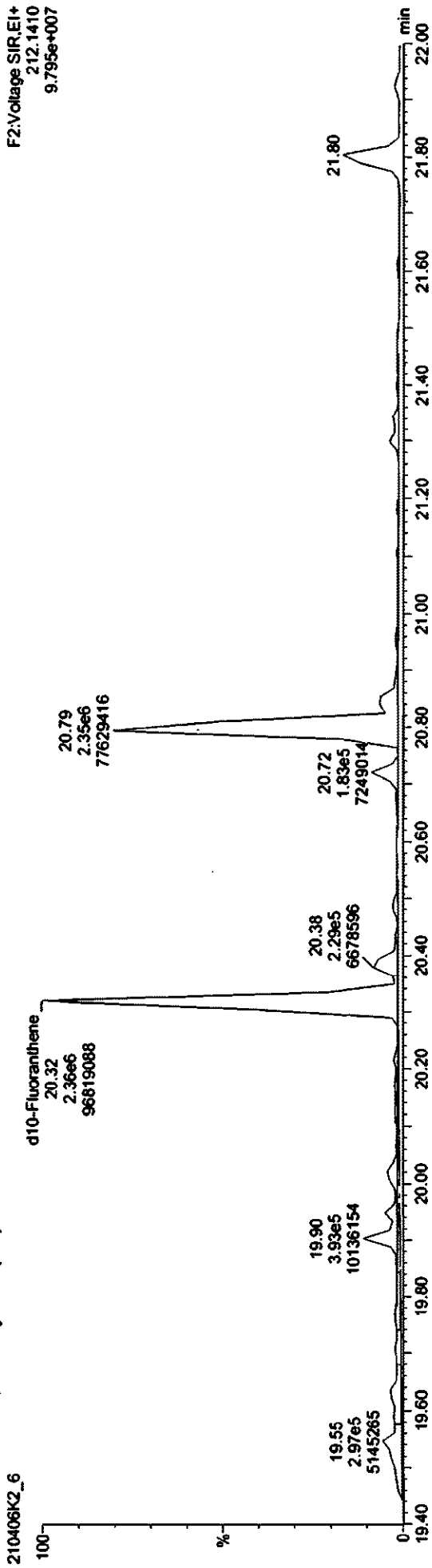
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
7.752e+008



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
9.795e+007



Dataset: U:\WG11.PRO\Results\210406K2\210406K2-6.qld

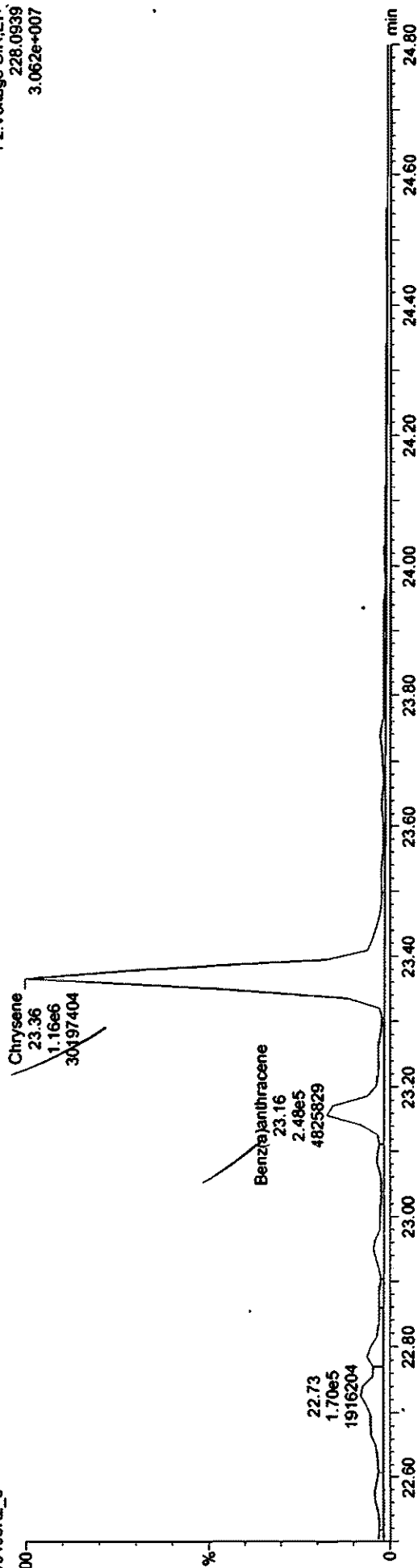
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Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

Benz(a)Anthracene-Chrysene

210406K2_6

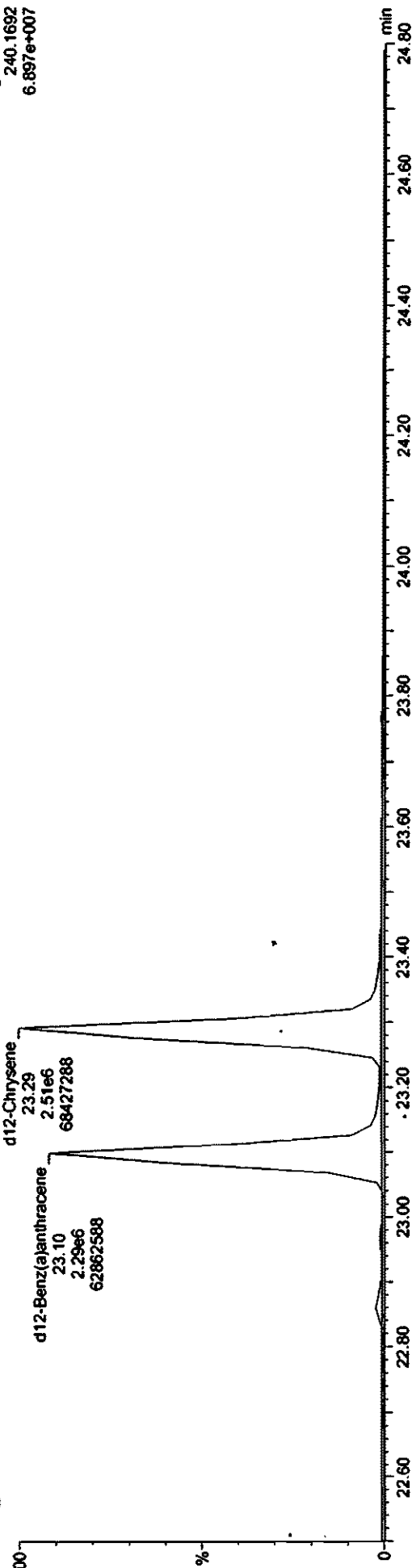
F2:Voltage SIR,EI+
228.0939
3.062e+007



Benz(a)Anthracene-Chrysene-Iso

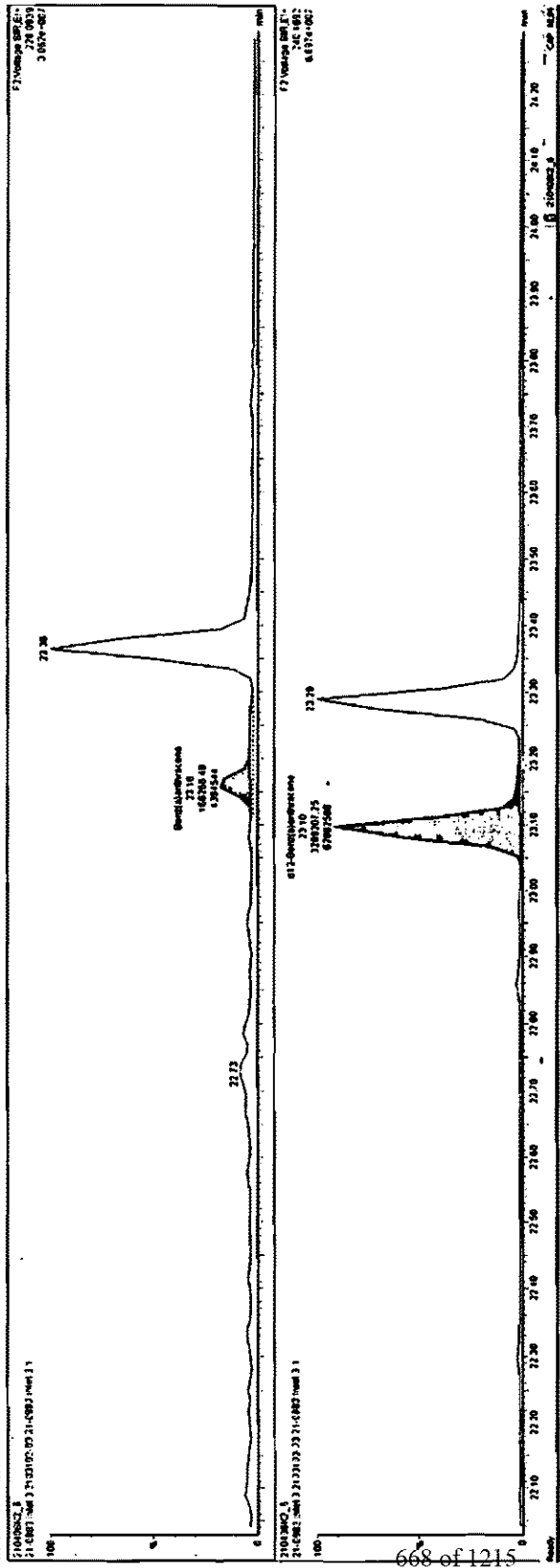
210406K2_6

F2:Voltage SIR,EI+
240.1692
6.897e+007

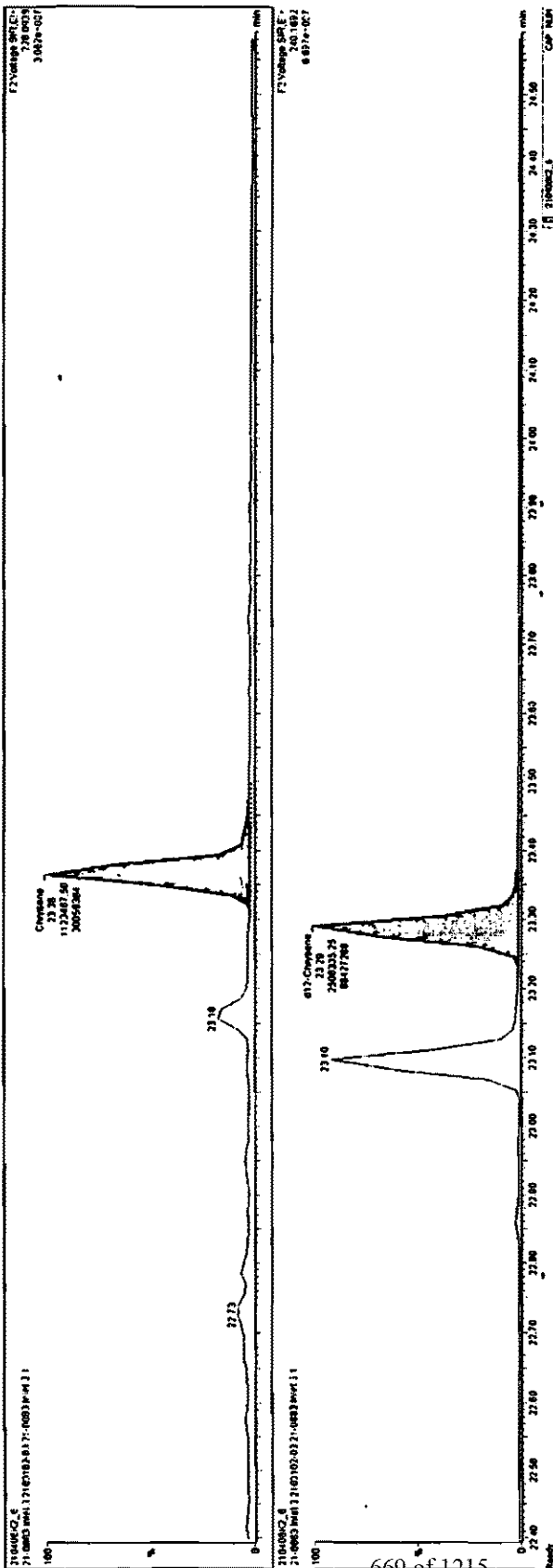


File View Data Processing Methods Reports Settings Help

| Index | Name | RT | Area | Height | Width | Area% | Height% | Width% | Area% | Height% | Width% | Area% | Height% | Width% | Area% | Height% | Width% |
|-------|--------------|--------|--------|--------|-------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|
| 1 | Chromatogram | 2.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2 | Chromatogram | 3.752 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 3 | Chromatogram | 11.740 | 8.7145 | 1.2500 | 1.000 | 11.64 | 11.76 | 0.0093 | 0.76 | 0.75 | 29.800 | 29.8 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 4 | Chromatogram | 7.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 5 | Chromatogram | 5.000 | 8.7145 | 1.2500 | 1.000 | 14.41 | 14.42 | 0.0002 | 1.81 | 1.80 | 8.000 | 8.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 6 | Chromatogram | 3.000 | 8.7145 | 1.2500 | 1.000 | 15.05 | 15.05 | 0.0007 | 1.81 | 1.80 | 8.000 | 8.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 7 | Chromatogram | 3.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 8 | Chromatogram | 7.745 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 9 | Chromatogram | 7.745 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 10 | Chromatogram | 7.745 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 11 | Chromatogram | 2.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 12 | Chromatogram | 1.000 | 2.5148 | 0.8113 | 1.000 | 23.15 | 23.15 | 0.0008 | 1.80 | 1.80 | 8.000 | 8.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 13 | Chromatogram | 1.000 | 2.5148 | 0.8113 | 1.000 | 23.27 | 23.28 | 0.0002 | 1.80 | 1.80 | 8.000 | 8.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 14 | Chromatogram | 7.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |



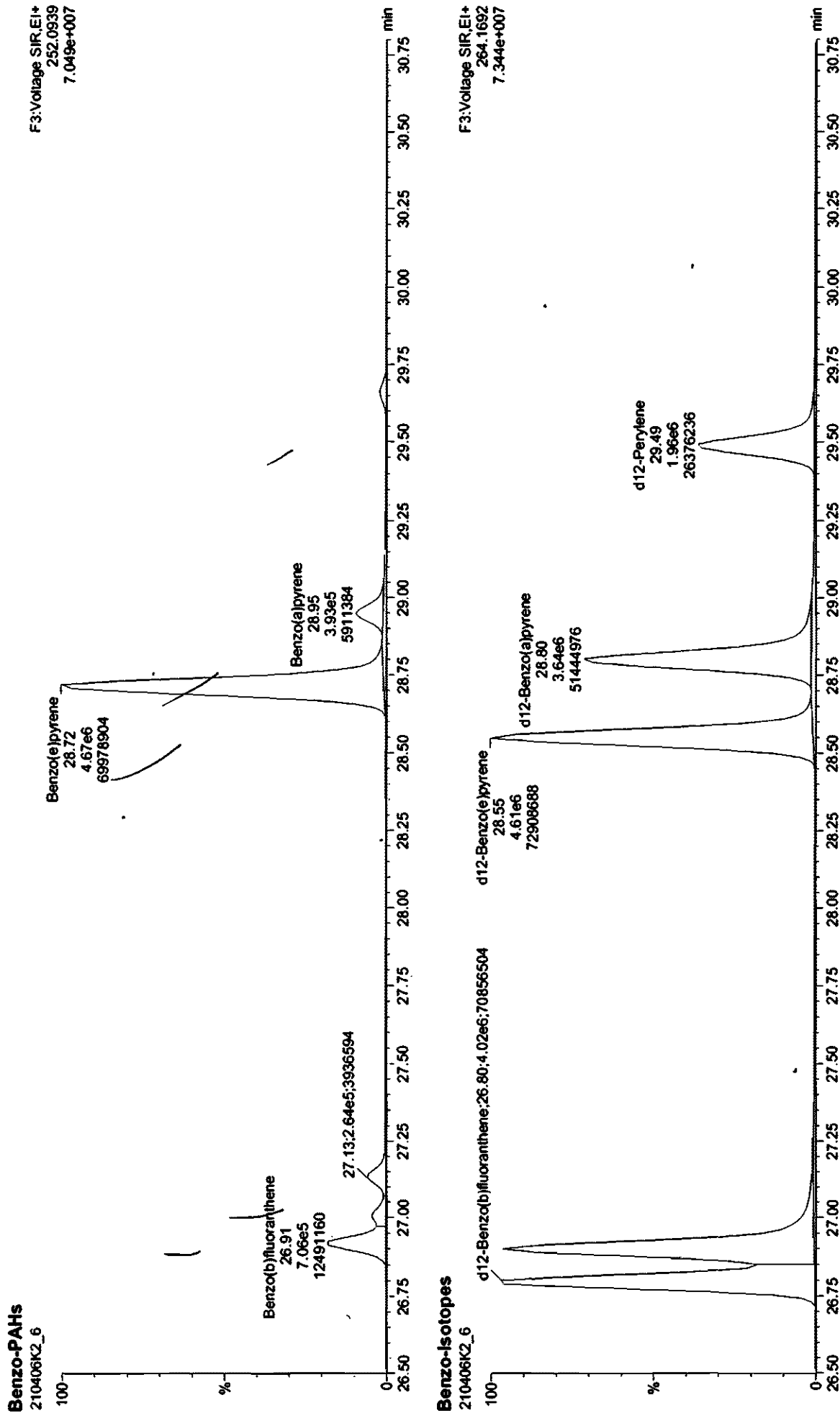
| Peak | RT | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|------|-------|-----------|--------|-------|--------|---------|-----------|-----------|--------|--------|--------|---------|--------|
| 1 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 |
| 2 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 3 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 4 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 5 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 6 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 7 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 8 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 9 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 10 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 11 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 12 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 13 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| 14 | 27.23 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 112487.56 | 1000 | 1.00 | 100.00 | 100.00 | 100.00 | 100.00 |



Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 10:18:59 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:19:12 AM Pacific Daylight Time

Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

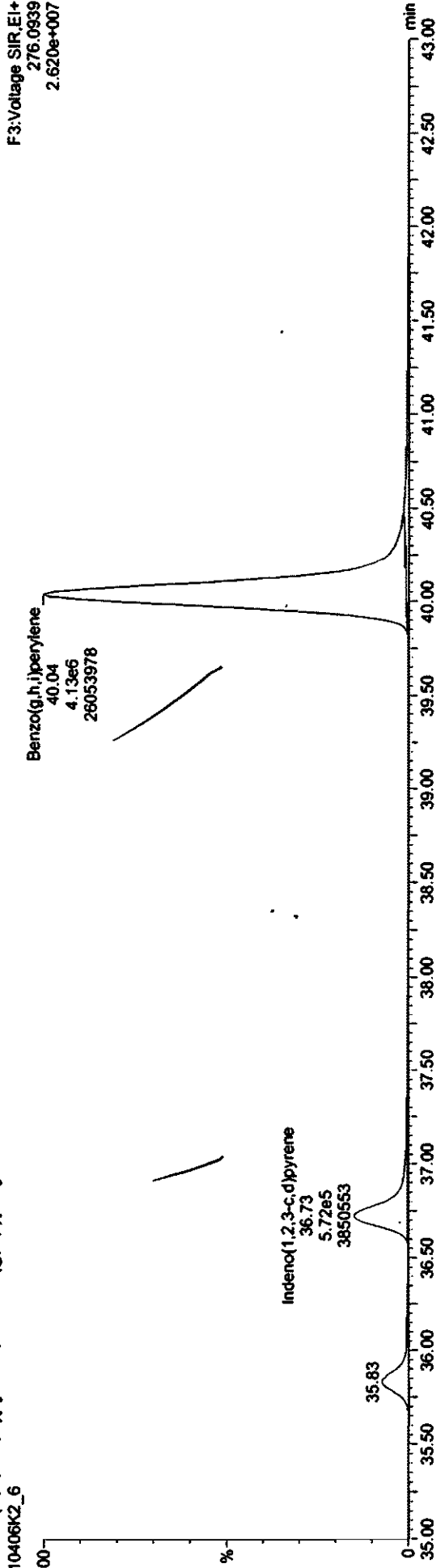


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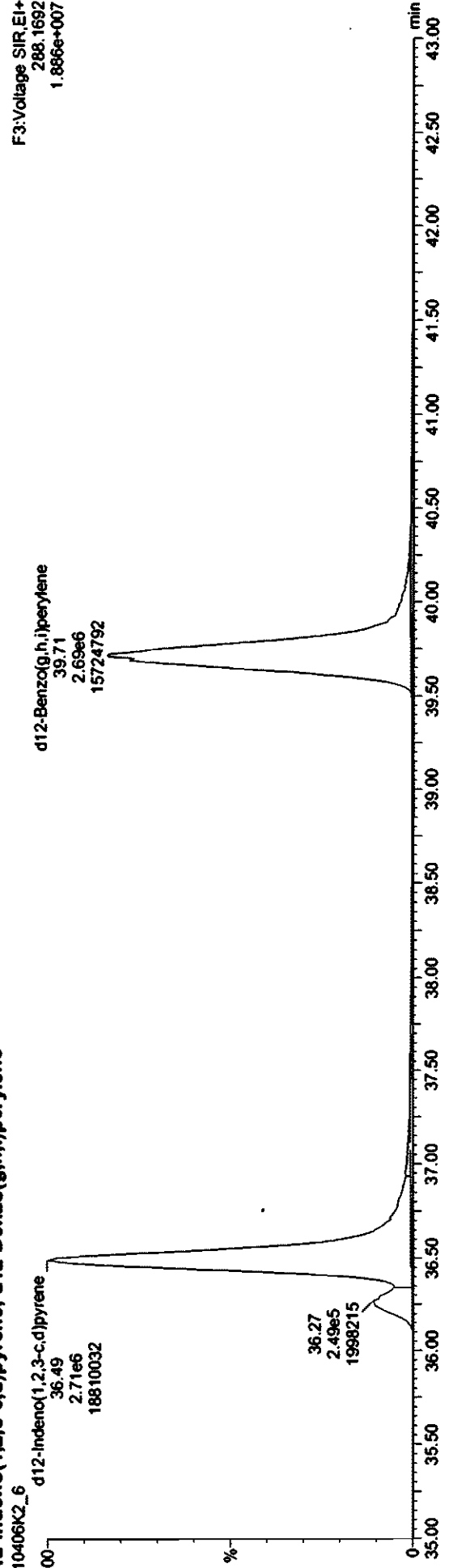
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Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene
210406K2_6



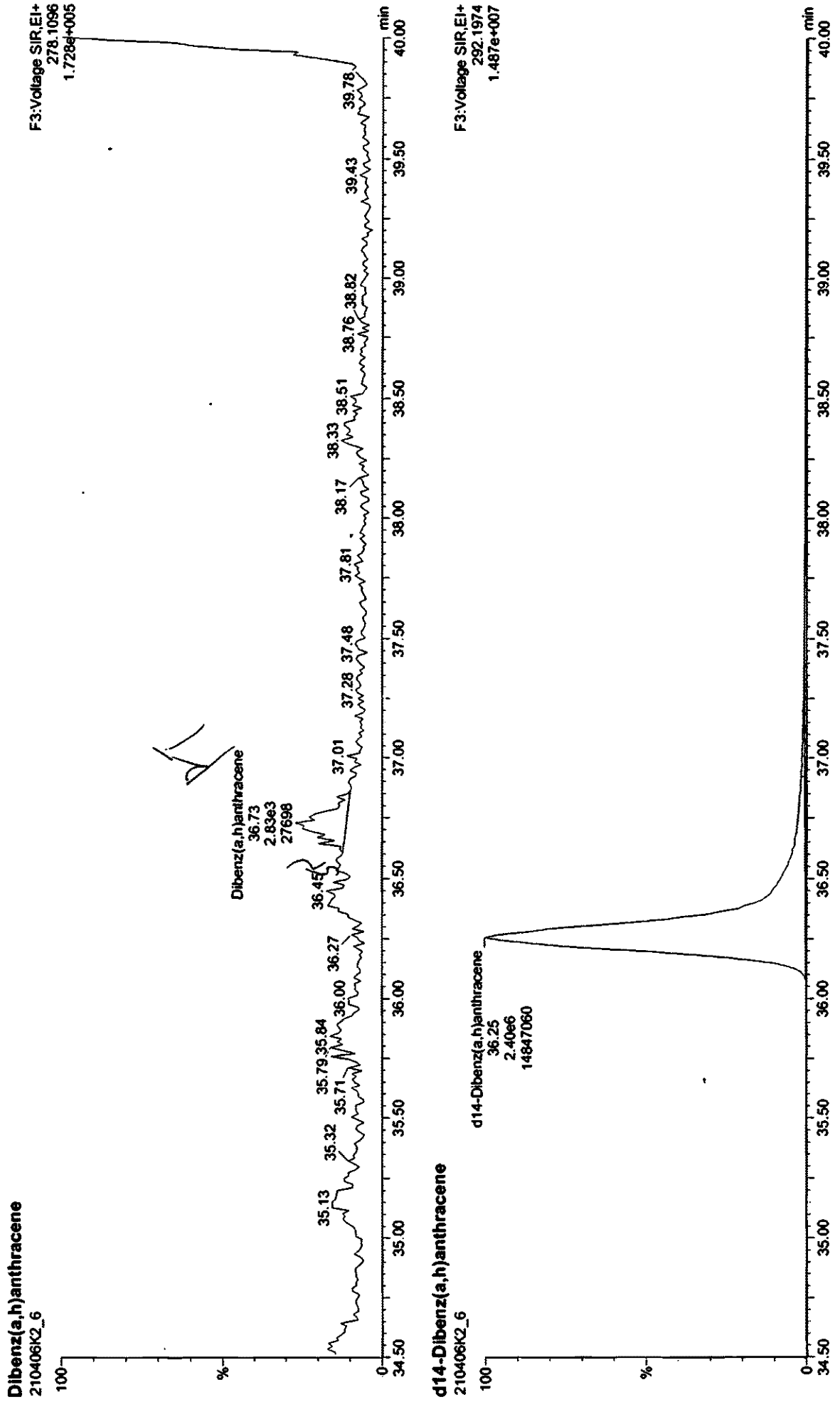
d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene
210406K2_6



Dataset: U:\VG11.PRO\Results\210406K2\210406K2-6.qld

Last Altered: Wednesday, April 07, 2021 10:18:59 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:19:12 AM Pacific Daylight Time

Name: 210406K2_6, Date: 07-Apr-2021, Time: 06:01:47, ID: 2103102-03 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-13.qld

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Printed: Wednesday, April 07, 2021 12:29:56 PM Pacific Daylight Time

07/04/09/2021

16:47:PM

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_13, Date: 07-Apr-2021, Time: 11:32:11, ID: 2103102-03@100X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3 1

| # | Name | Resp | IS Resp | RRF | w/vol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DI |
|----|------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|--------|------|-------|
| 2 | Naphthalene-2nd | 2.48e7 | 4.49e4 | 0.128 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 863000 | 100 | 32500 |
| 5 | Acenaphthene | 1.16e6 | 1.76e4 | 1.10 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | NO | 12000 | 130 | 1030 |
| 22 | d8-Naphthalene | 4.49e4 | 2.88e4 | 1.20 | 1.000 | 10.12 | 10.10 | 0.848 | 0.847 | NO | 259 | 103 | 49.8 |
| 24 | d10-Acenaphthene | 1.76e4 | 2.88e4 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 206 | 103 | 132 |
| 40 | d10-Pyrene | 2.88e4 | 2.88e4 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 6.32 |

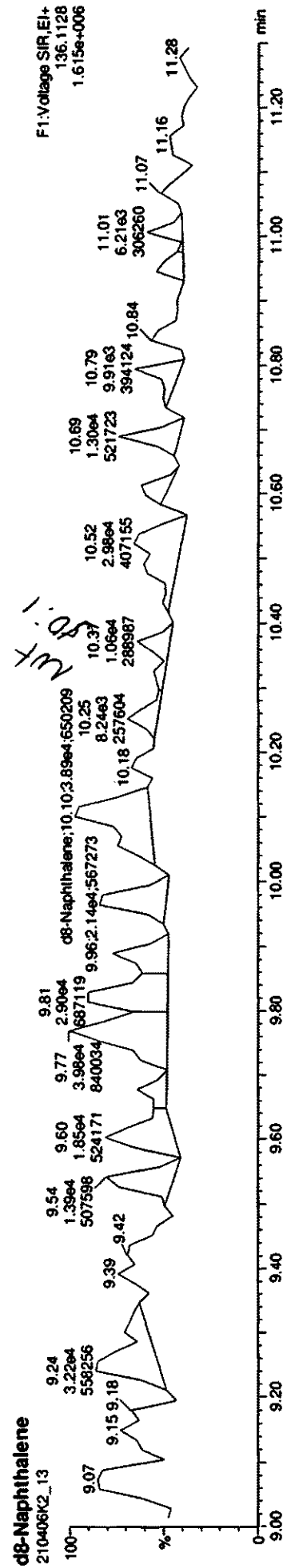
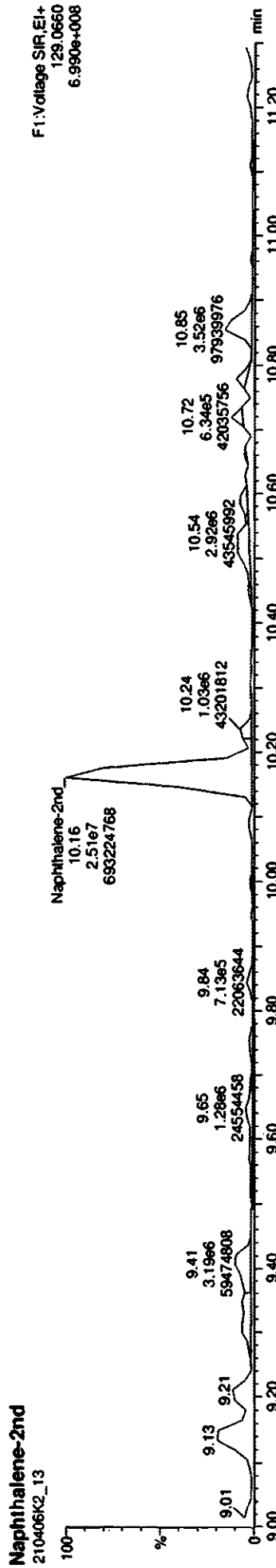
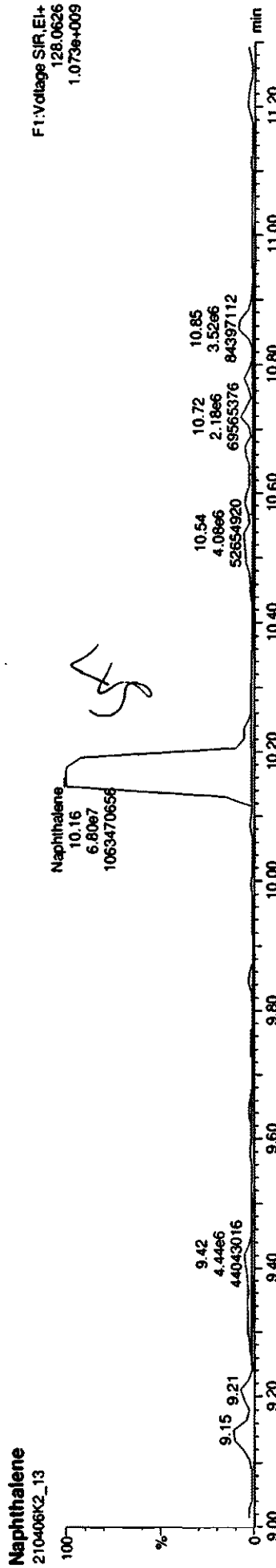
See 500X dil

Quantify Sample Report
Visia Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:26:18 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:26:33 PM Pacific Daylight Time

Method: U:\VG11.PROMethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\Curvedb\50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11
Name: 210406K2_13, Date: 07-Apr-2021, Time: 11:32:11, ID: 2103102-03@100X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3 1



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

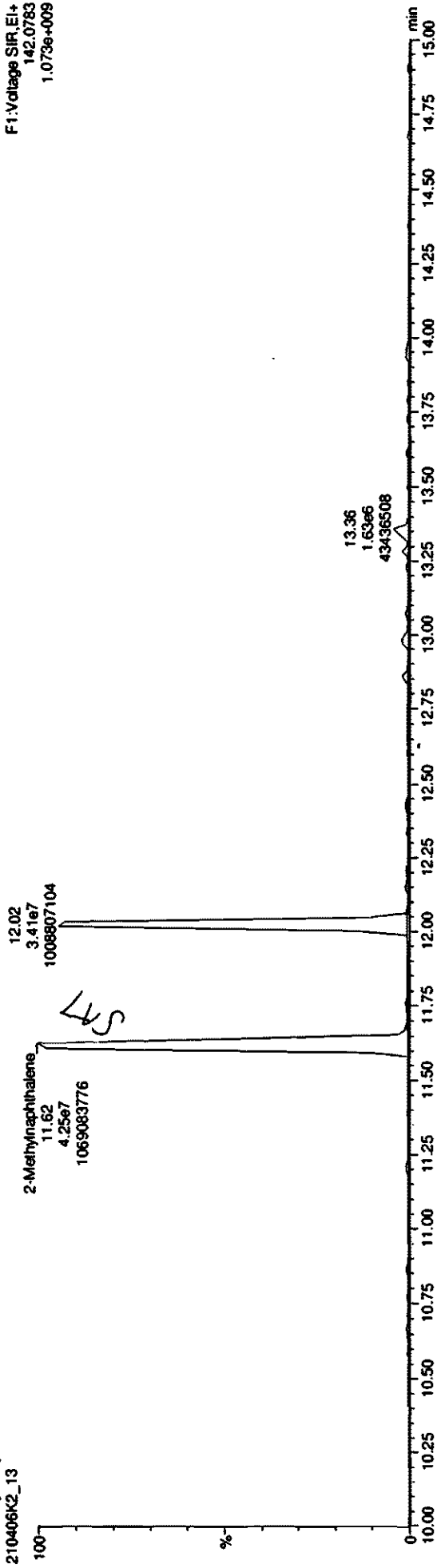
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Printed: Wednesday, April 07, 2021 12:26:33 PM Pacific Daylight Time

Name: 210406K2_13, Date: 07-Apr-2021, Time: 11:32:11, ID: 2103102-03@100X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3 1

2-Methylnaphthalene

210406K2_13

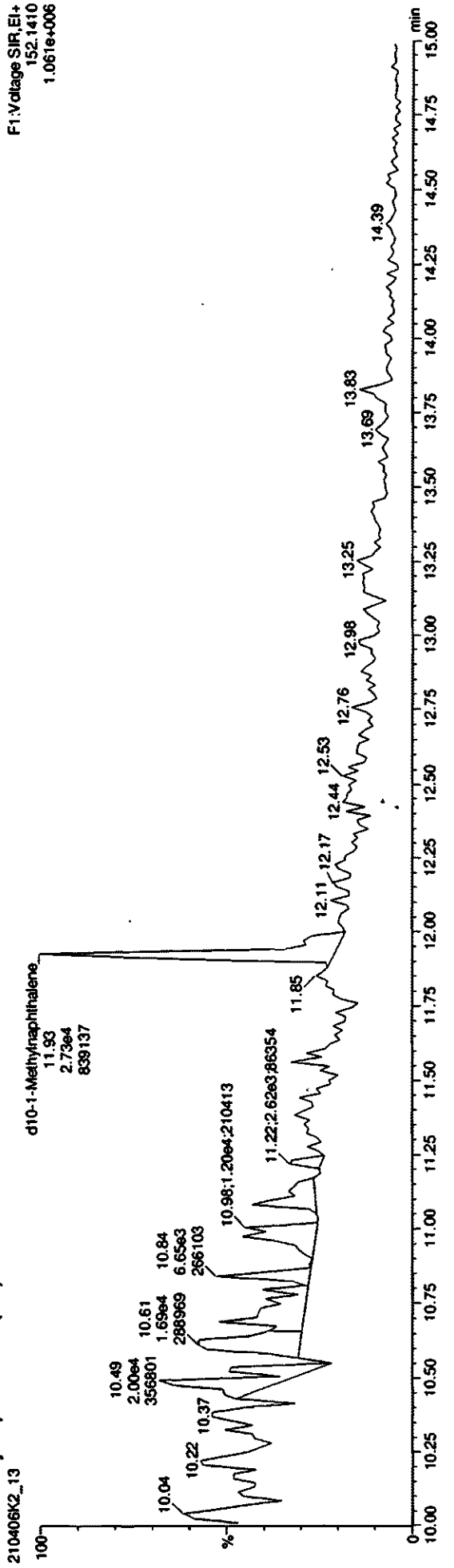
F1:Voltage SIR, EI+
142.0783
1.073e+009



d10-1-Methylnaphthalene (RS)

210406K2_13

F1:Voltage SIR, EI+
152.1410
1.061e+006

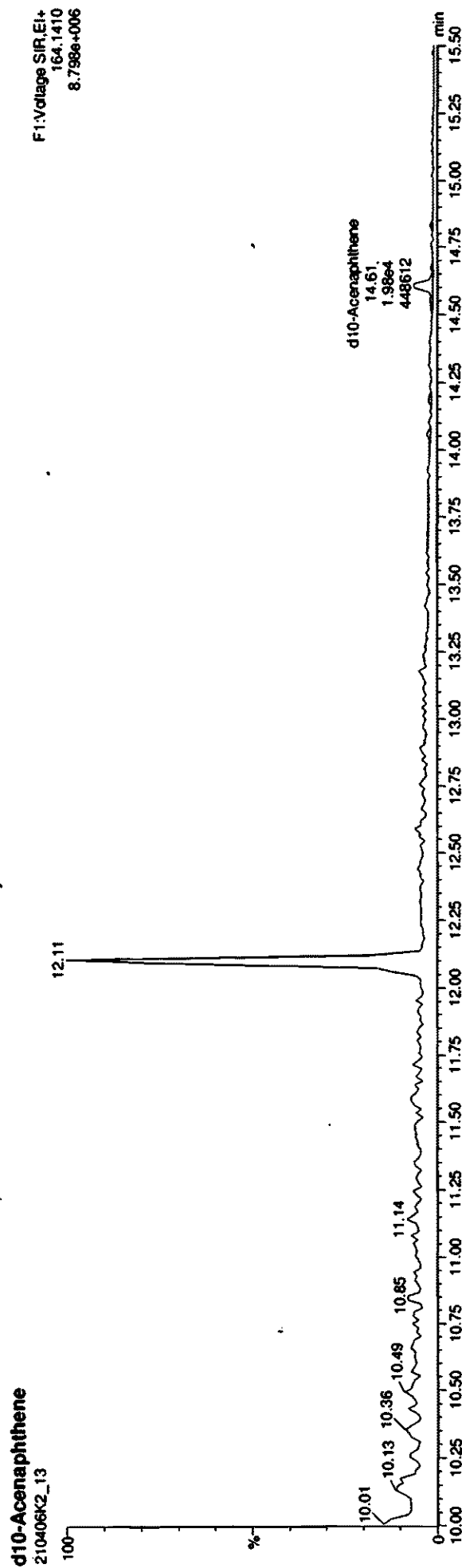
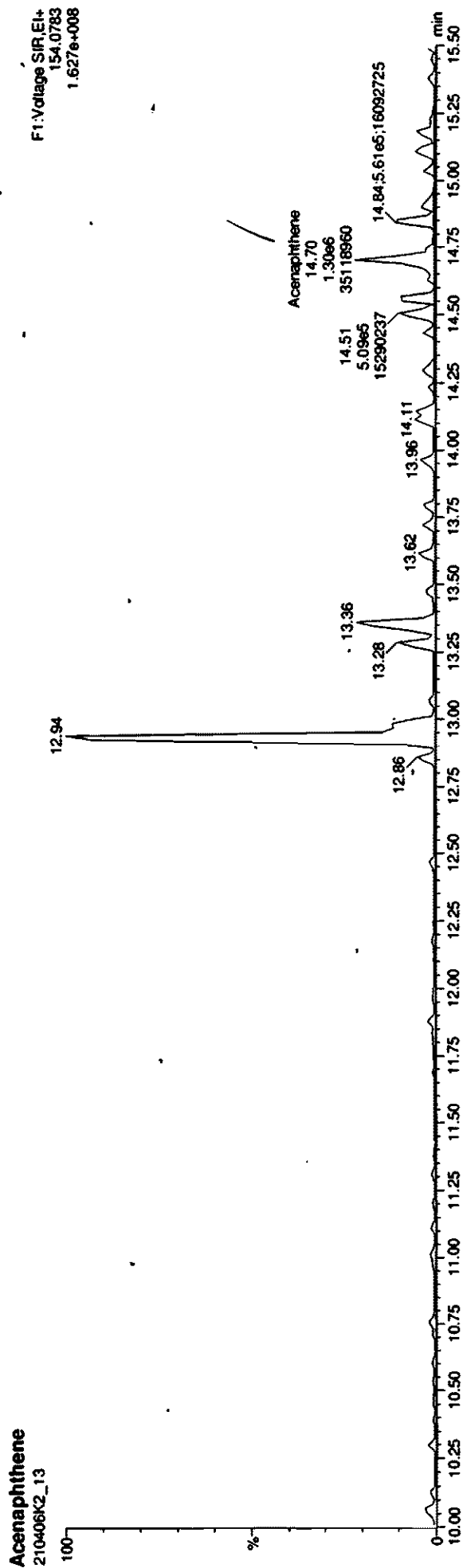


Quantify Sample Report
Vista Analytical Laboratory

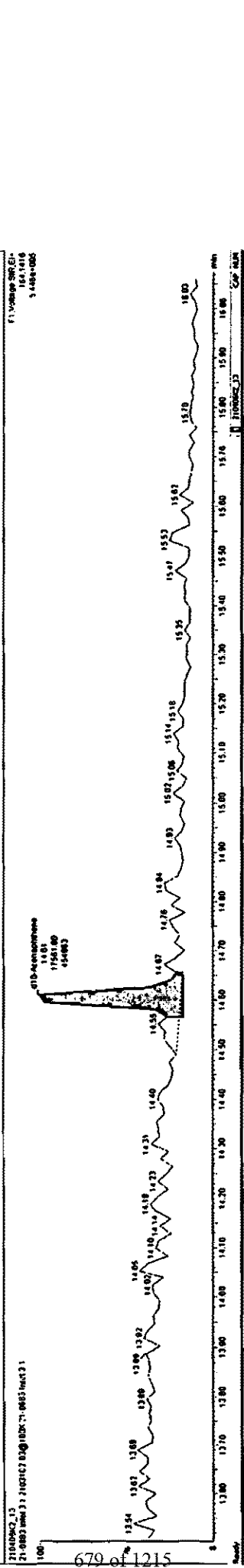
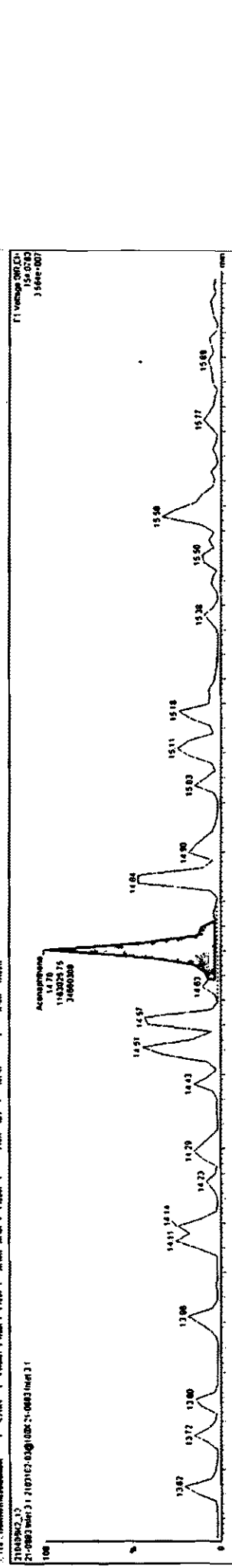
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Printed: Wednesday, April 07, 2021 12:26:33 PM Pacific Daylight Time

Name: 210406K2_13, Date: 07-Apr-2021, Time: 11:32:11, ID: 2103102-03@100X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3 1



| RT | Name | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|-------|-------|------|--------|-------|-------|---------|--------|------|--------|-------|-------|---------|--------|
| 13.82 | 13.82 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 13.97 | 13.97 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.05 | 14.05 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.23 | 14.23 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.30 | 14.30 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.40 | 14.40 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.51 | 14.51 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.63 | 14.63 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.76 | 14.76 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.83 | 14.83 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 14.93 | 14.93 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.06 | 15.06 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.18 | 15.18 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.20 | 15.20 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.30 | 15.30 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.50 | 15.50 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.58 | 15.58 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.70 | 15.70 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.80 | 15.80 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15.90 | 15.90 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16.00 | 16.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16.07 | 16.07 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
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| 16.50 | 16.50 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16.60 | 16.60 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16.70 | 16.70 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16.80 | 16.80 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16.90 | 16.90 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.00 | 17.00 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.10 | 17.10 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.20 | 17.20 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.30 | 17.30 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.40 | 17.40 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.50 | 17.50 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.60 | 17.60 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.70 | 17.70 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.80 | 17.80 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17.90 | 17.90 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
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Dataset: Untitled

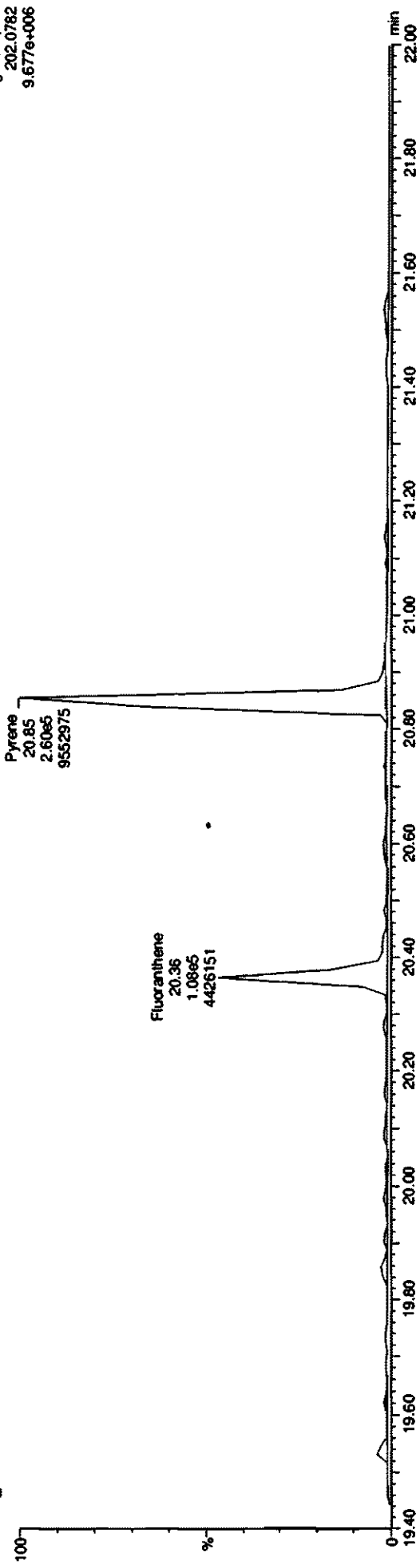
Last Altered: Wednesday, April 07, 2021 12:26:18 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:26:33 PM Pacific Daylight Time

Name: 210406K2_13, Date: 07-Apr-2021, Time: 11:32:11, ID: 2103102-03@100X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3 1

Fluoranthene; Pyrene

210406K2_13

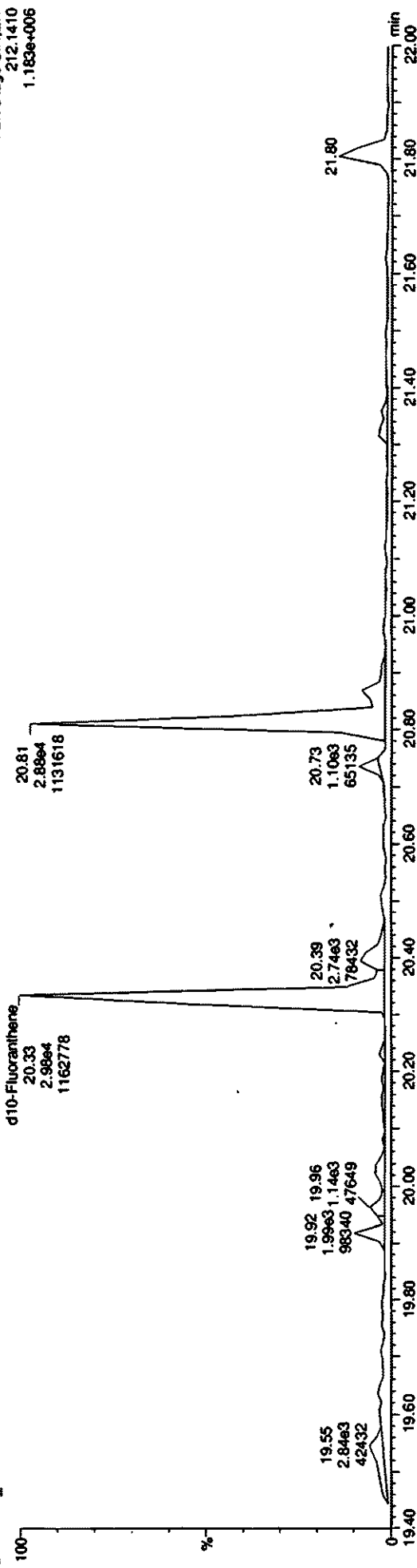
F2:Voltage S1R, EI+
202.0782
9.677e+006



d10-Fluoranthene; d10-Pyrene (RS)

210406K2_13

F2:Voltage S1R, EI+
212.1410
1.183e+006



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

Last Altered: Wednesday, April 07, 2021 11:58:01 Pacific Daylight Time
Printed: Friday, April 09, 2021 10:19:38 Pacific Daylight Time

pk 4-9-2021

X see d.1

X A: see 500X d.1 station

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\lb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

| L | # Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|-----------|---------|------|
| 1 | 4 Acenaphthylene | 1.23e6 | 1.62e5 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 1360 X A | | 2360 |
| 2 | 5 Acenaphthene | 4.28e6 | 5.31e4 | 1.10 | 1.000 | 14.68 | 14.70 | 1.006 | 1.007 | NO | 14600 E X | | 2000 |
| 3 | 6 Fluorene | 3.04e6 | 6.05e4 | 1.15 | 1.000 | 15.92 | 15.92 | 1.006 | 1.006 | NO | 8700 | | 550 |
| 4 | 7 Phenanthrene | 5.83e6 | 8.07e4 | 1.19 | 1.000 | 18.32 | 18.29 | 1.002 | 1.001 | NO | 12100 | | 188 |
| 5 | 9 Anthracene | 3.47e6 | 8.07e4 | 1.09 | 1.000 | 18.38 | 18.32 | 1.005 | 1.003 | NO | 7880 | | 205 |
| 6 | 10 Fluoranthene | 4.46e5 | 1.33e5 | 1.10 | 1.000 | 20.37 | 20.35 | 1.002 | 1.001 | NO | 612 | | 13.8 |
| 7 | 11 Pyrene | 1.06e6 | 1.33e5 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 1330 | | 12.6 |
| 8 | 20 Benzo(g,h,i)perylene | 1.63e5 | 1.10e5 | 0.940 | 1.000 | 40.12 | 40.06 | 1.009 | 1.008 | NO | 630 | | 7.66 |
| 9 | 23 db-Acenaphthylene | 1.62e5 | 1.28e5 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 281 | 141 X A | 469 |
| 10 | 24 d10-Acenaphthene | 5.31e4 | 1.28e5 | 0.594 | 1.000 | 14.62 | 14.60 | 1.226 | 1.224 | NO | 140 | 70.0 X | 128 |
| 11 | 25 d10-Fluorene | 6.05e4 | 1.28e5 | 0.563 | 1.000 | 15.86 | 15.83 | 1.330 | 1.328 | NO | 168 | 84.2 | 138 |
| 12 | 26 d10-Phenanthrene | 8.07e4 | 1.28e5 | 0.735 | 1.000 | 18.28 | 18.28 | 1.533 | 1.533 | NO | 172 | 85.9 | 293 |
| 13 | 27 d10-Fluoranthene | 1.33e5 | 1.28e5 | 1.29 | 1.000 | 20.31 | 20.32 | 0.977 | 0.977 | NO | 162 | 80.8 | 1.14 |
| 14 | 34 d12-Benzo(g,h,i)perylene | 1.10e5 | 8.08e4 | 1.00 | 1.000 | 40.19 | 39.74 | 1.362 | 1.347 | YES | 14272 | 68.0 | 1.51 |

Quantify Sample Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

Last Altered: Wednesday, April 07, 2021 11:58:01 Pacific Daylight Time
Printed: Friday, April 09, 2021 10:19:50 Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

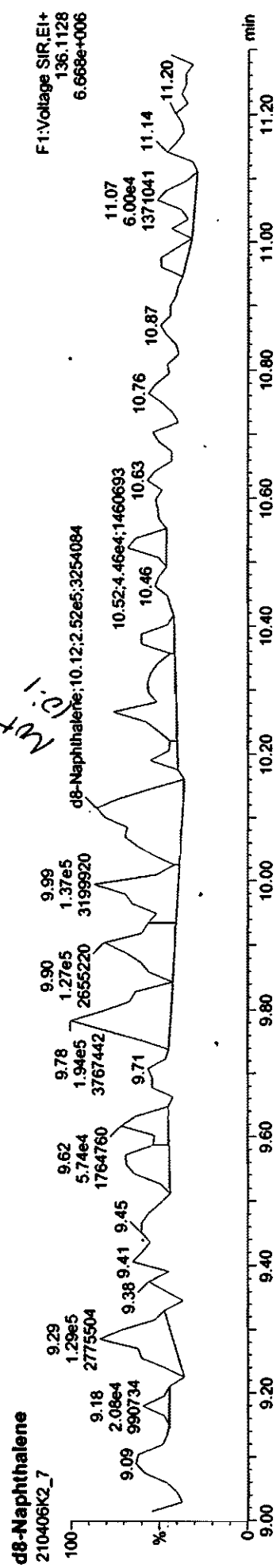
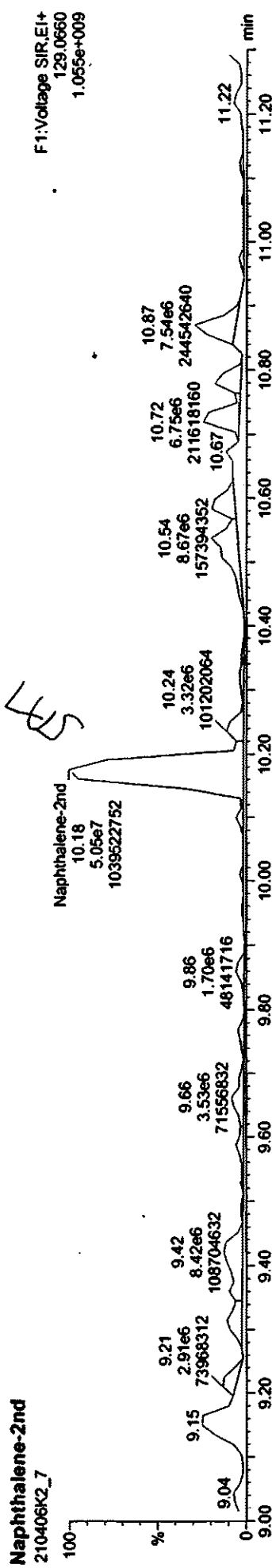
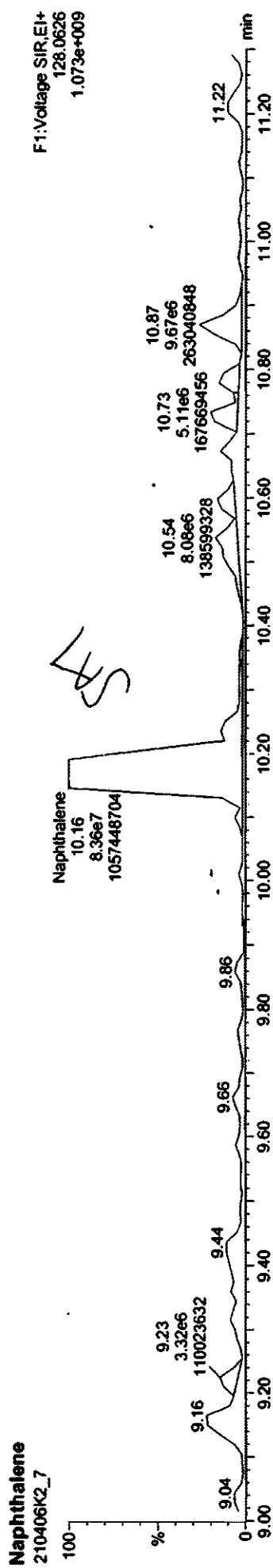
| L# | Name | Resp | IS Resp | RRF | wVol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|----|-------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|------|
| 1 | 36 d10-Anthracene | 5.61e4 | 8.08e4 | 0.989 | 1.000 | 18.37 | 18.34 | 1.541 | 1.538 | NO | 141 | 70.3 | 1120 |
| 2 | 40 d10-Pyrene | 1.28e5 | 1.28e5 | 1.00 | 1.000 | 20.81 | 20.79 | 1.000 | 1.000 | NO | 200 | 100 | 1.46 |
| 3 | 41 d12-Perylene | 8.08e4 | 8.08e4 | 1.00 | 1.000 | 29.59 | 29.50 | 1.000 | 1.000 | NO | 200 | 100 | 1.60 |

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

Last Altered: Wednesday, April 07, 2021 11:51:09 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\IPAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\ib_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



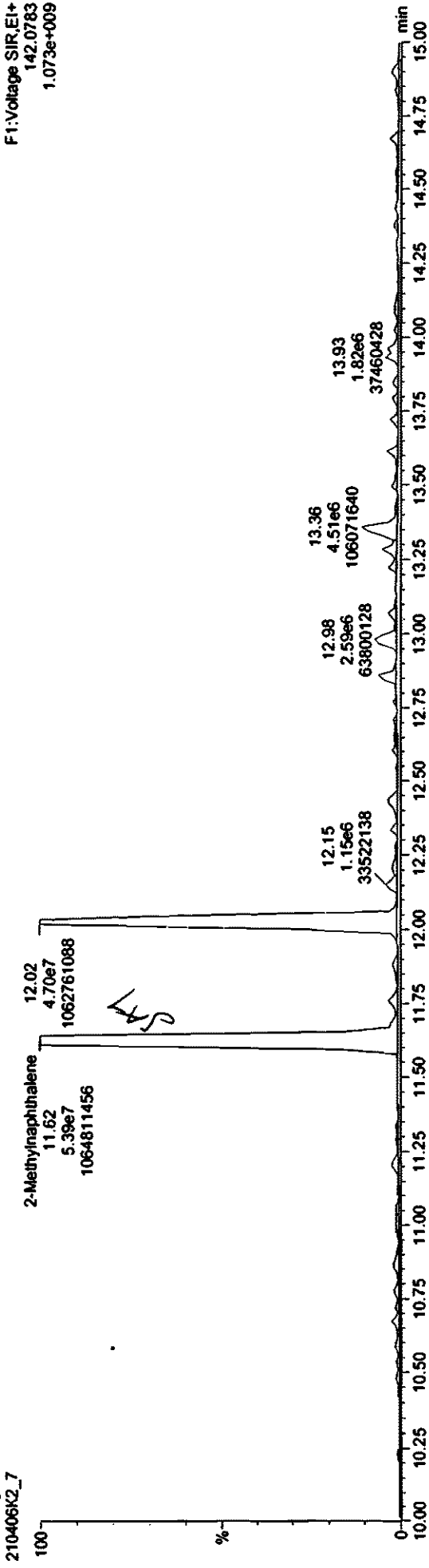
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Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

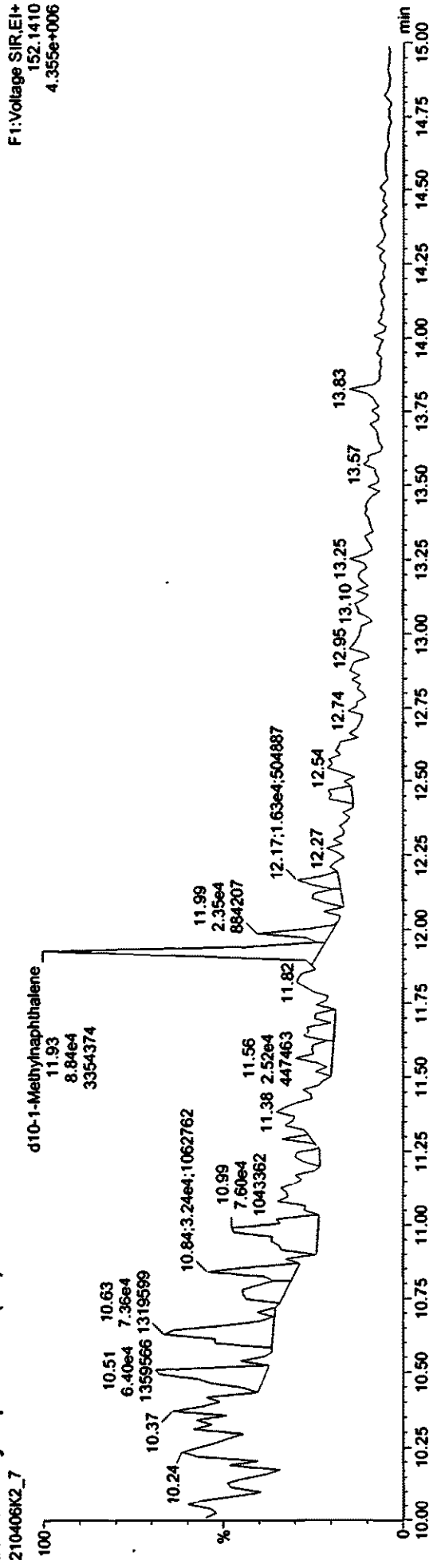
2-Methylnaphthalene

F1: Voltage SIR, EI+
142.0783
1.073e+009



d10-1-Methylnaphthalene (RS)

F1: Voltage SIR, EI+
152.1410
4.355e+006

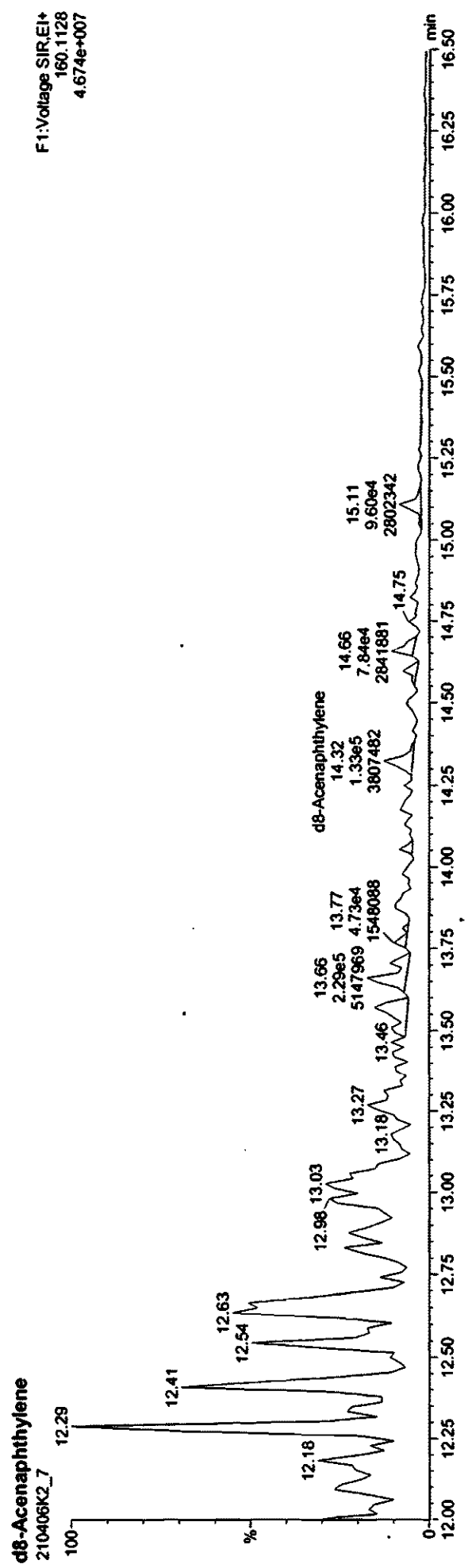
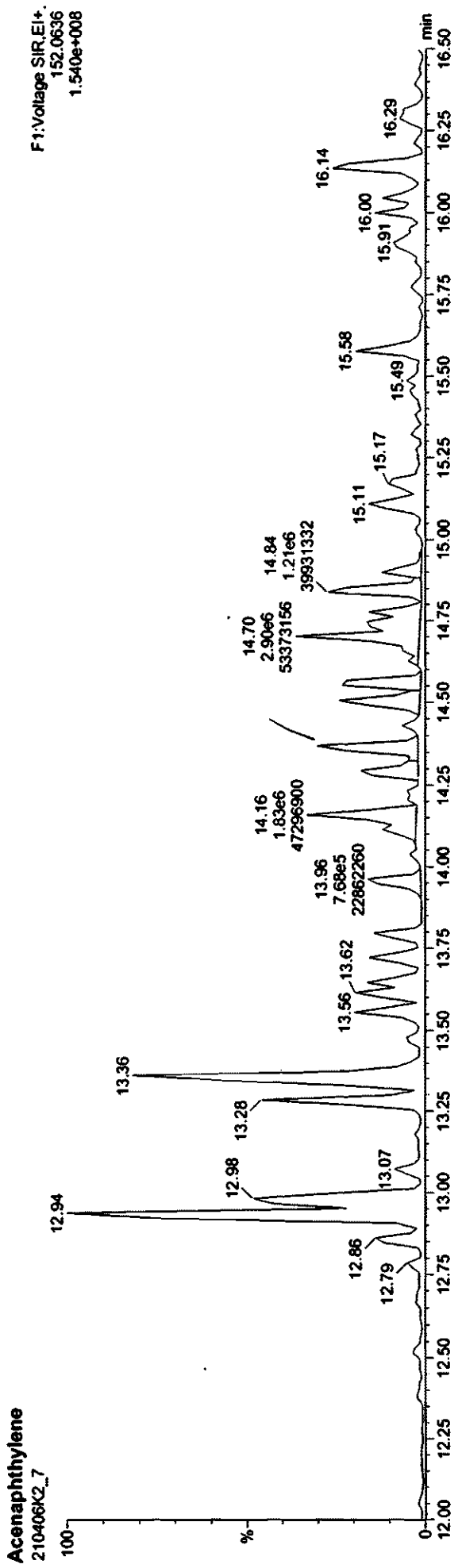


Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

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Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

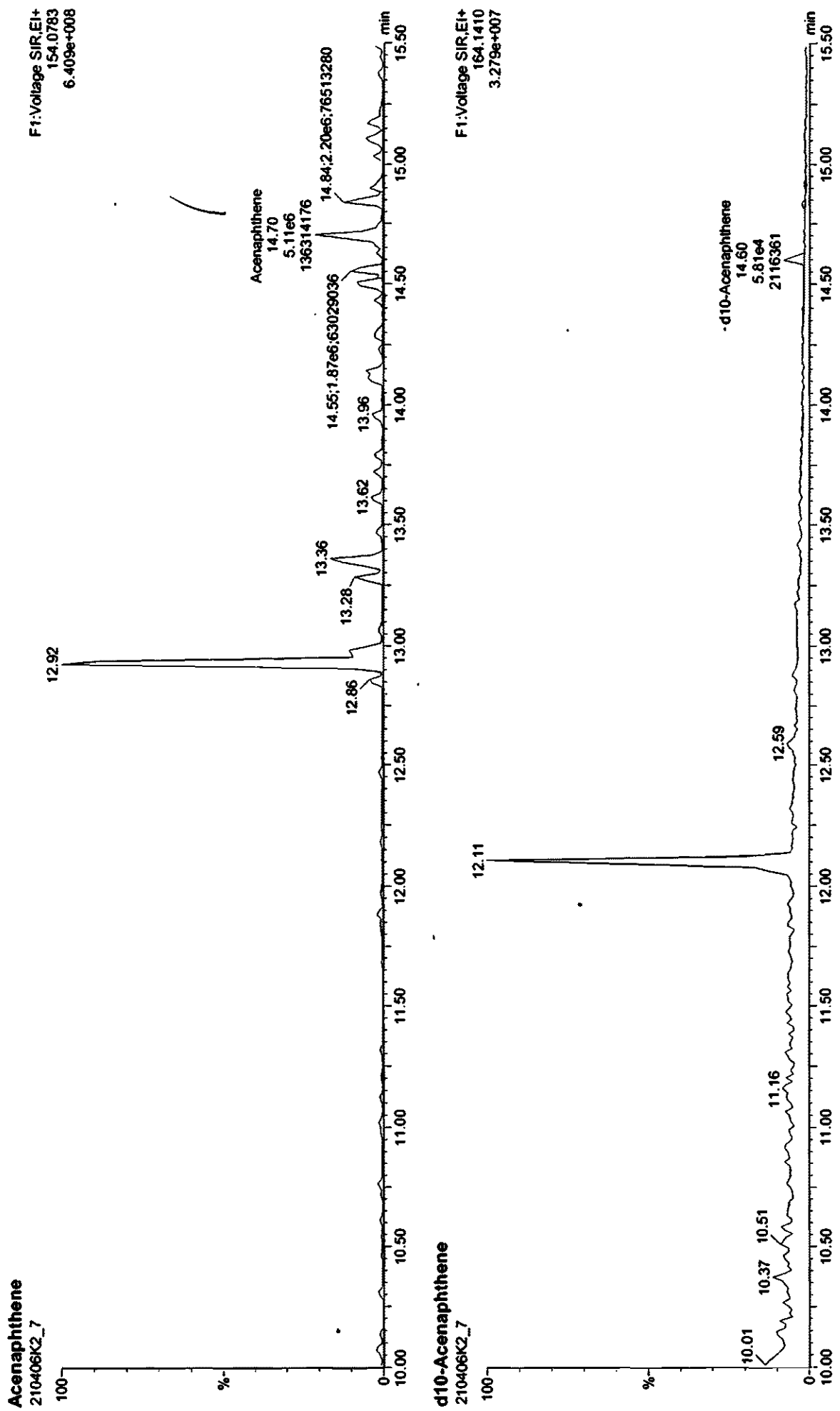
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Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

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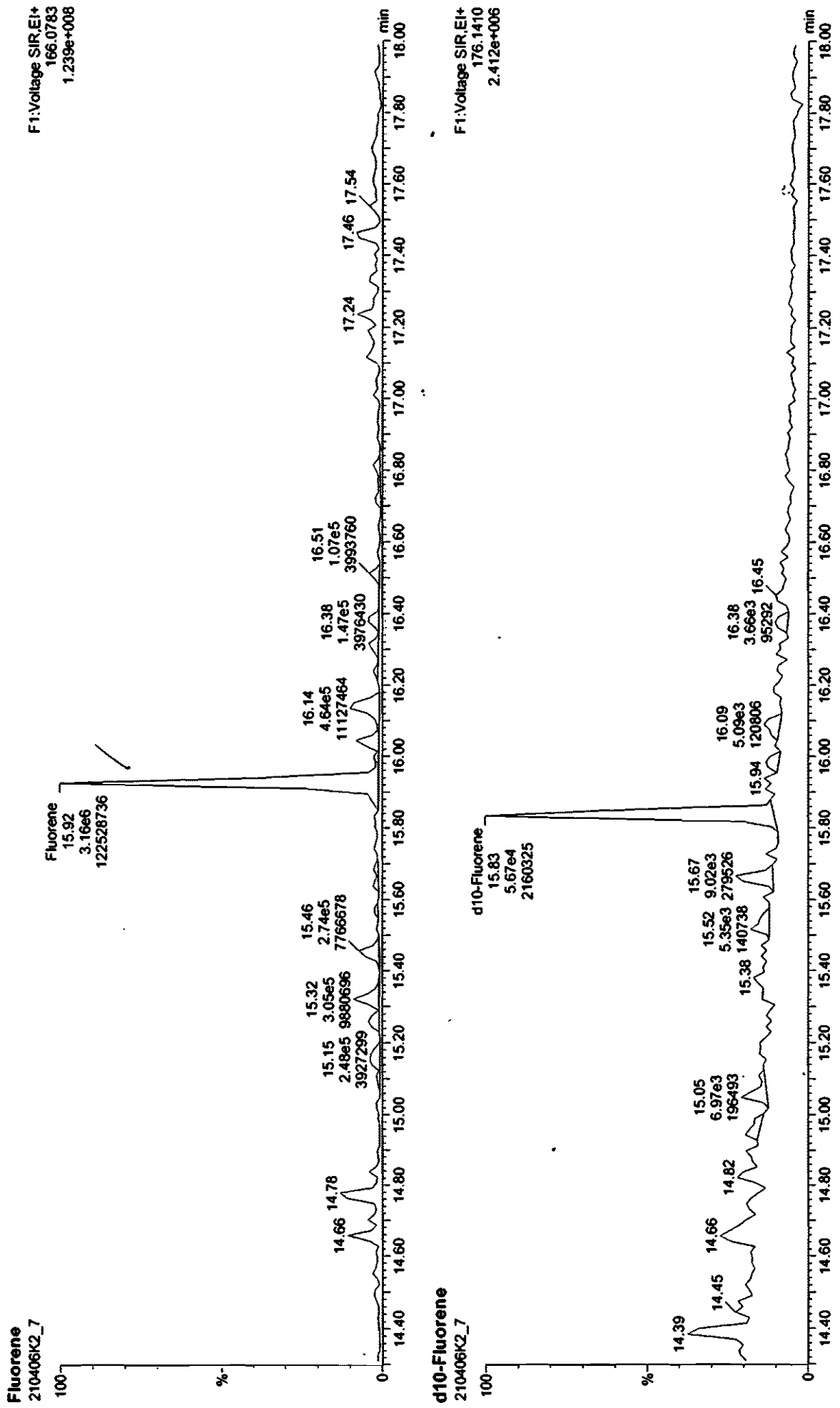
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Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

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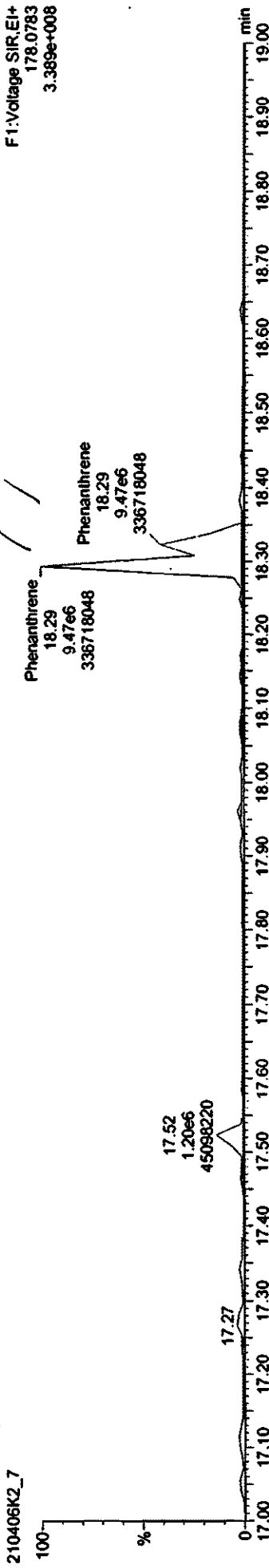


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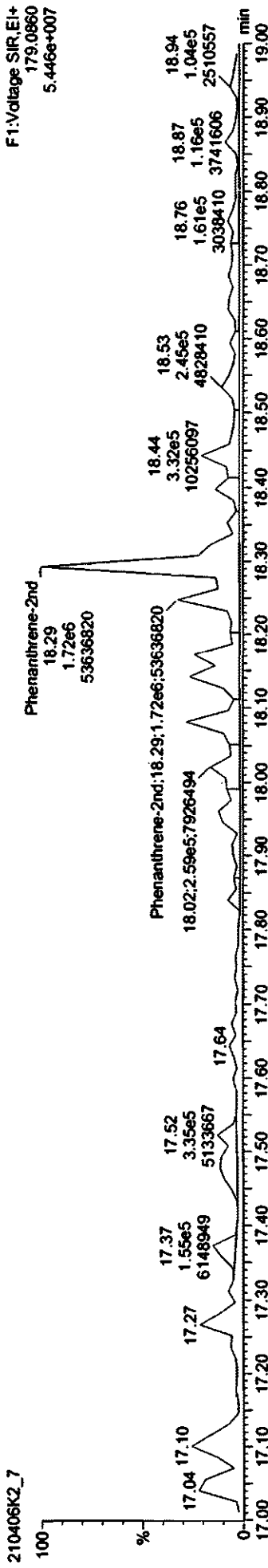
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Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

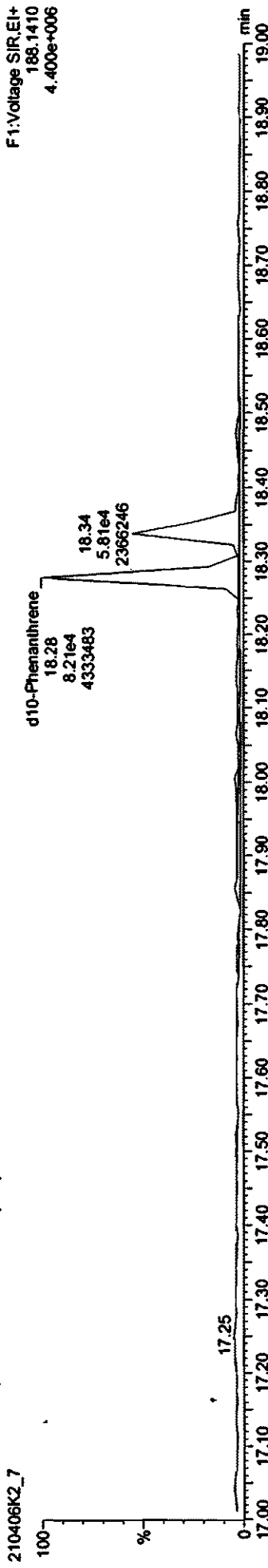
Phenanthrene; Anthracene



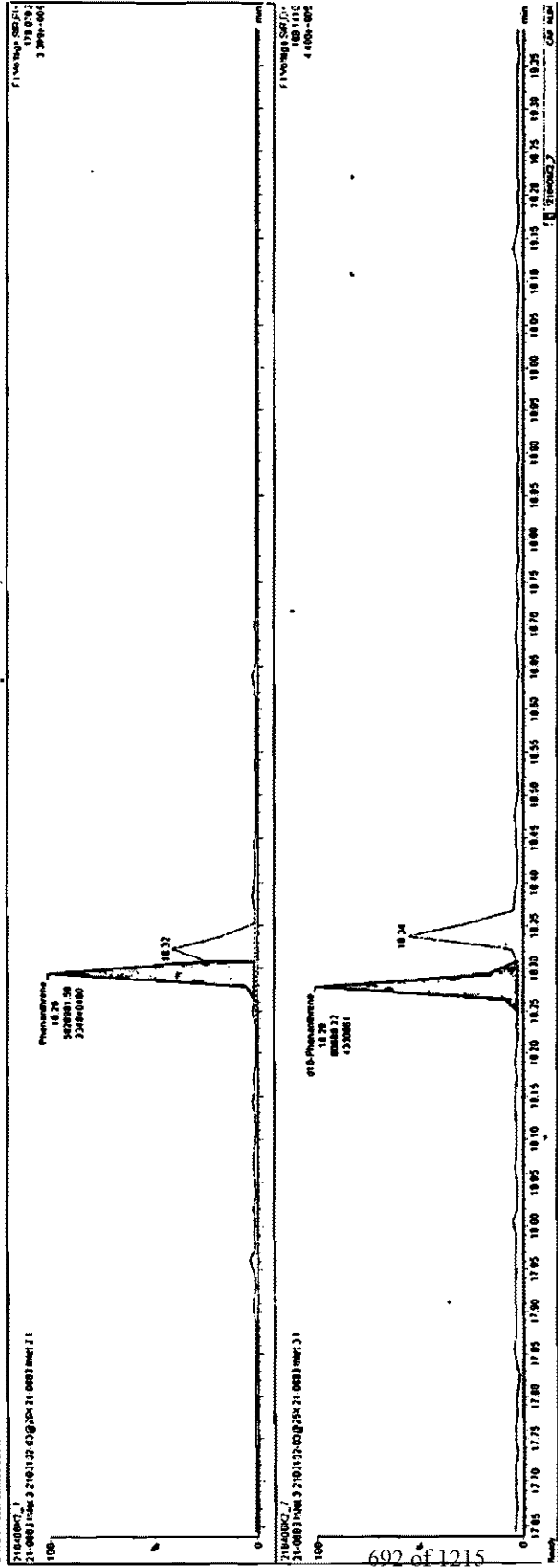
Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)



| RT | Name | Area | Height | Width | Area% | Height% | RT | Area | Height | Width | Area% | Height% |
|-------|-----------------|--------|--------|--------|-------|---------|------|--------|--------|-------|-------|---------|
| 1.16 | Phenacetone | 110000 | 1000 | 0.17 | 10.18 | 2.824 | 1.16 | 57100 | 4000 | 0.000 | 1.16 | 57100 |
| 2.20 | Phenacetone-20 | 23245 | 1778 | 0.17 | 19.18 | 1.035 | 1.91 | 312000 | 2500 | 0.000 | 1.91 | 312000 |
| 3.26 | Phenacetone-30 | 52944 | 3798 | 0.09 | 11.82 | 0.784 | 0.79 | 147000 | 1000 | 0.000 | 0.79 | 147000 |
| 4.29 | Phenacetone-40 | 12545 | 1105 | 0.09 | 14.37 | 0.807 | 1.09 | 1300 | 2900 | 0.000 | 1.09 | 1300 |
| 5.31 | Phenacetone-50 | 32144 | 1804 | 0.09 | 14.75 | 0.807 | 1.21 | 1000 | 2000 | 0.000 | 1.21 | 1000 |
| 6.34 | Phenacetone-60 | 81538 | 1800 | 0.09 | 15.52 | 0.807 | 1.31 | 500 | 1000 | 0.000 | 1.31 | 500 |
| 7.37 | Phenacetone-70 | 11566 | 1100 | 0.09 | 16.32 | 0.808 | 1.41 | 200 | 400 | 0.000 | 1.41 | 200 |
| 8.40 | Phenacetone-80 | 30744 | 1000 | 0.09 | 17.29 | 1.000 | 1.51 | 100 | 200 | 0.000 | 1.51 | 100 |
| 9.43 | Phenacetone-90 | 81538 | 1000 | 0.09 | 18.34 | 1.000 | 1.61 | 100 | 200 | 0.000 | 1.61 | 100 |
| 10.46 | Phenacetone-100 | 13244 | 1000 | 0.09 | 20.37 | 2.000 | 1.71 | 100 | 200 | 0.000 | 1.71 | 100 |
| 11.49 | Phenacetone-110 | 10544 | 1100 | 0.09 | 21.85 | 2.004 | 1.81 | 100 | 200 | 0.000 | 1.81 | 100 |
| 12.52 | Phenacetone-120 | 27163 | 0.7168 | 0.0013 | 23.15 | 1.000 | 1.91 | 100 | 200 | 0.000 | 1.91 | 100 |
| 13.55 | Phenacetone-130 | 48204 | 1.1265 | 0.0018 | 23.38 | 1.000 | 2.01 | 100 | 200 | 0.000 | 2.01 | 100 |
| 14.58 | Phenacetone-140 | 25104 | 1.000 | 0.001 | 24.67 | 2.000 | 2.11 | 100 | 200 | 0.000 | 2.11 | 100 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

Last Altered: Wednesday, April 07, 2021 11:51:09 AM Pacific Daylight Time

Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

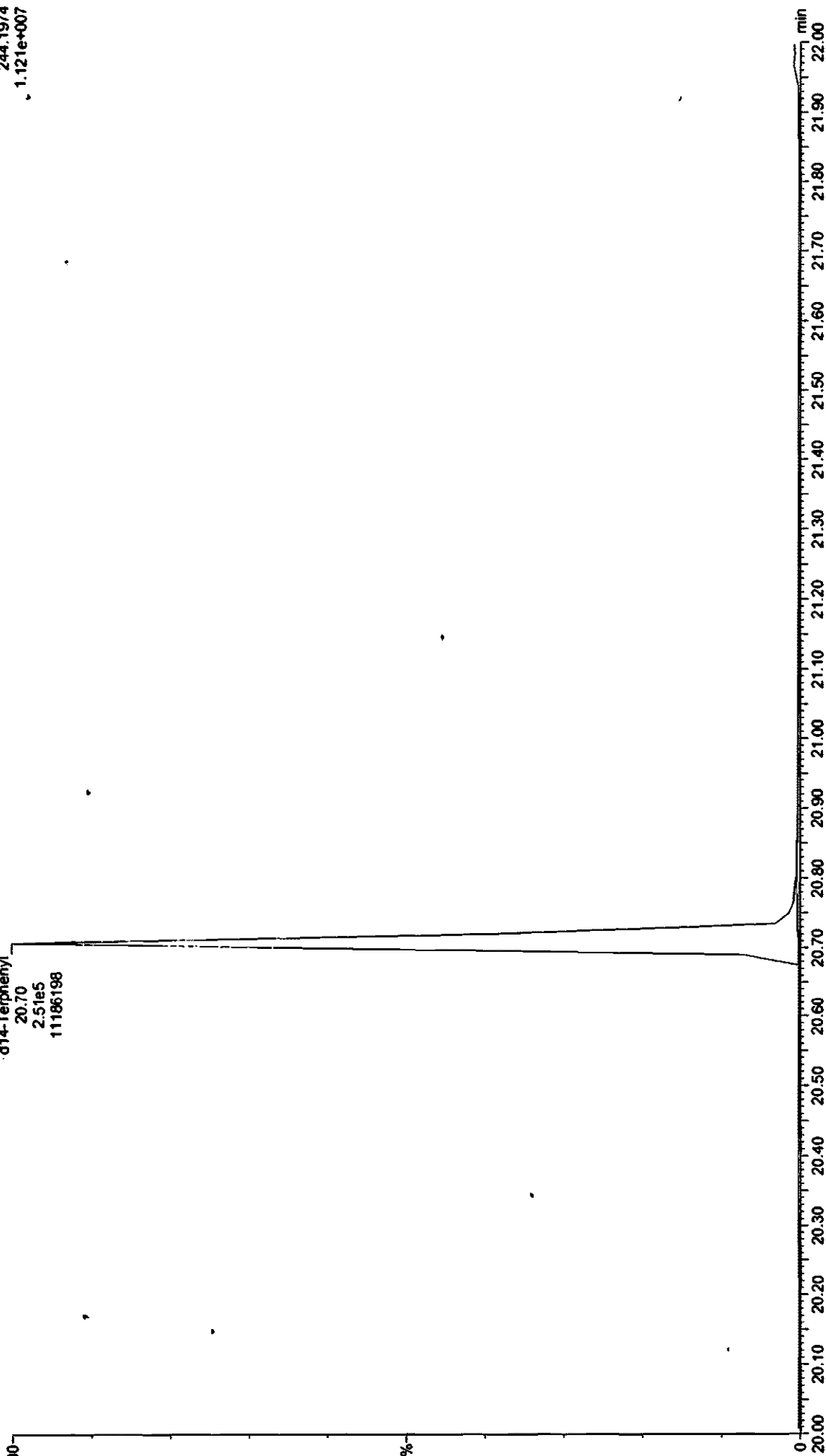
Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

d14-Terphenyl (PS)

210406K2_7

d14-Terphenyl
20.70
2.51e5
11186198

F2:Voltage SIR.EI+
244.1974
1.121e+007



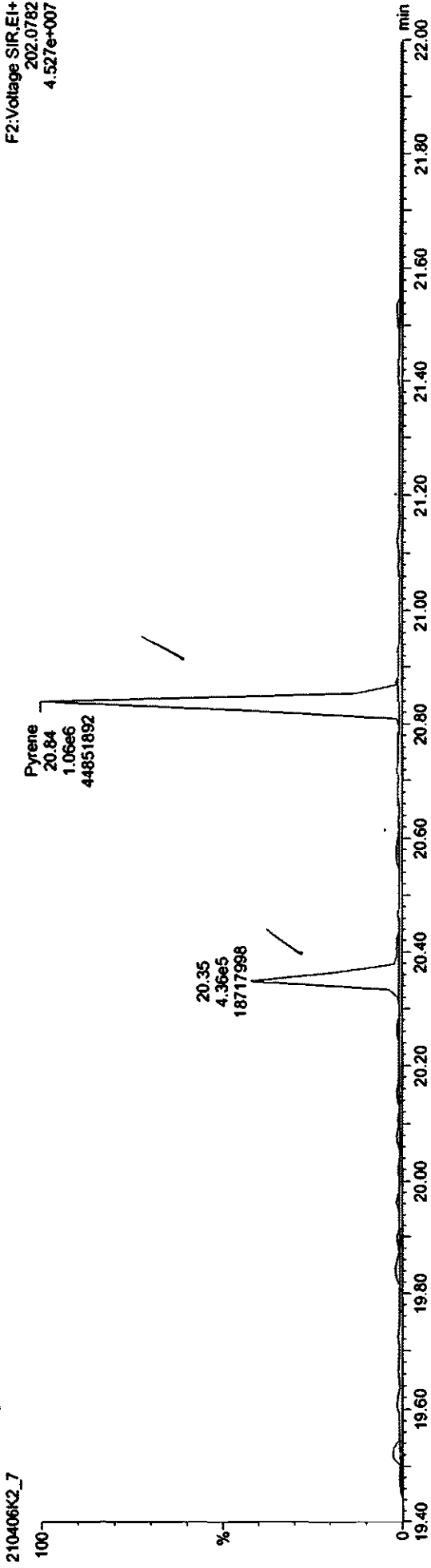
Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

Last Altered: Wednesday, April 07, 2021 11:51:09 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

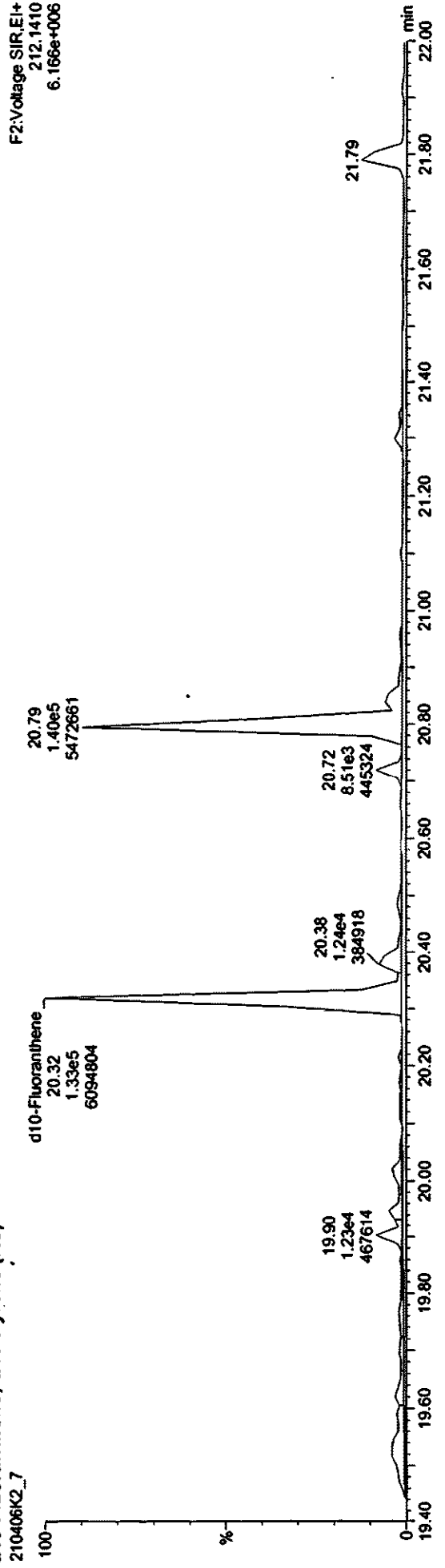
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
4.527e+007



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
6.166e+006

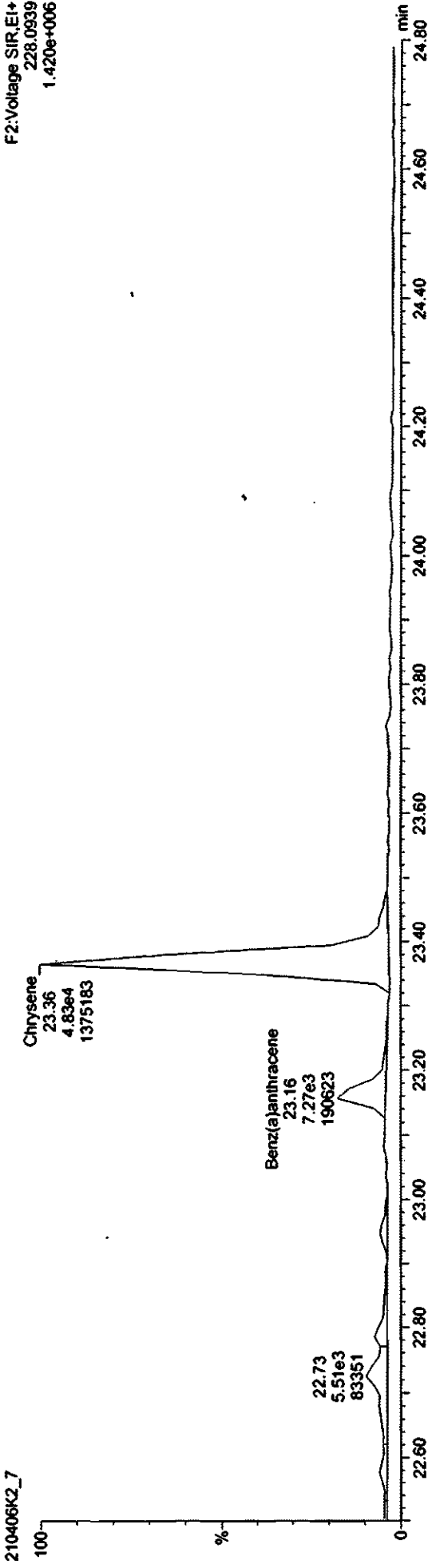


Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

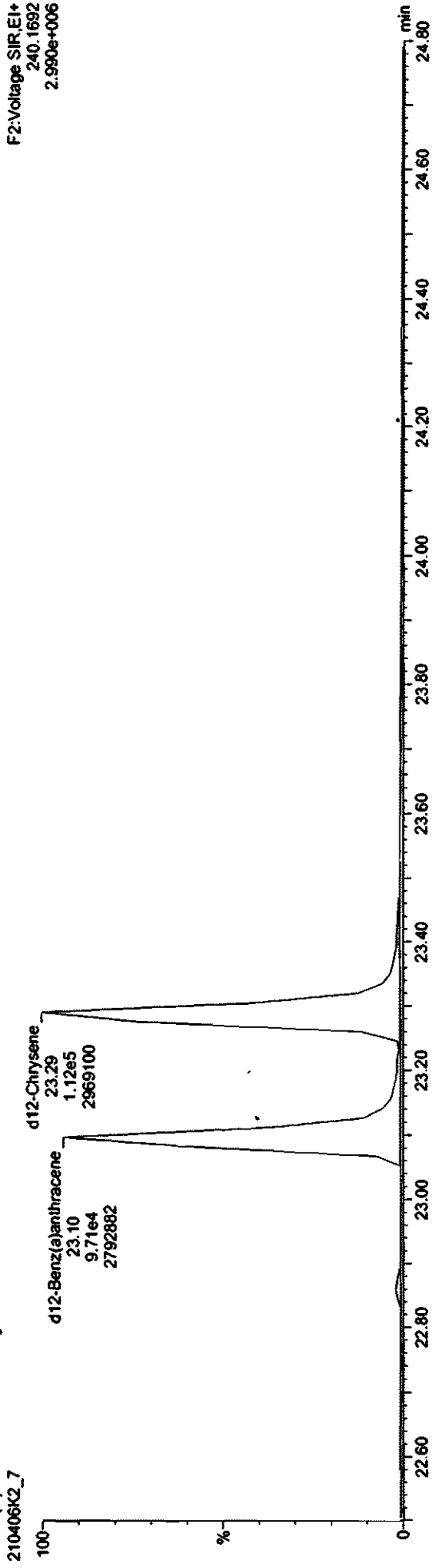
Last Altered: Wednesday, April 07, 2021 11:51:09 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

Benz(a)Anthracene-Chrysenes



Benz(a)Anthracene-Chrysenes-Iso



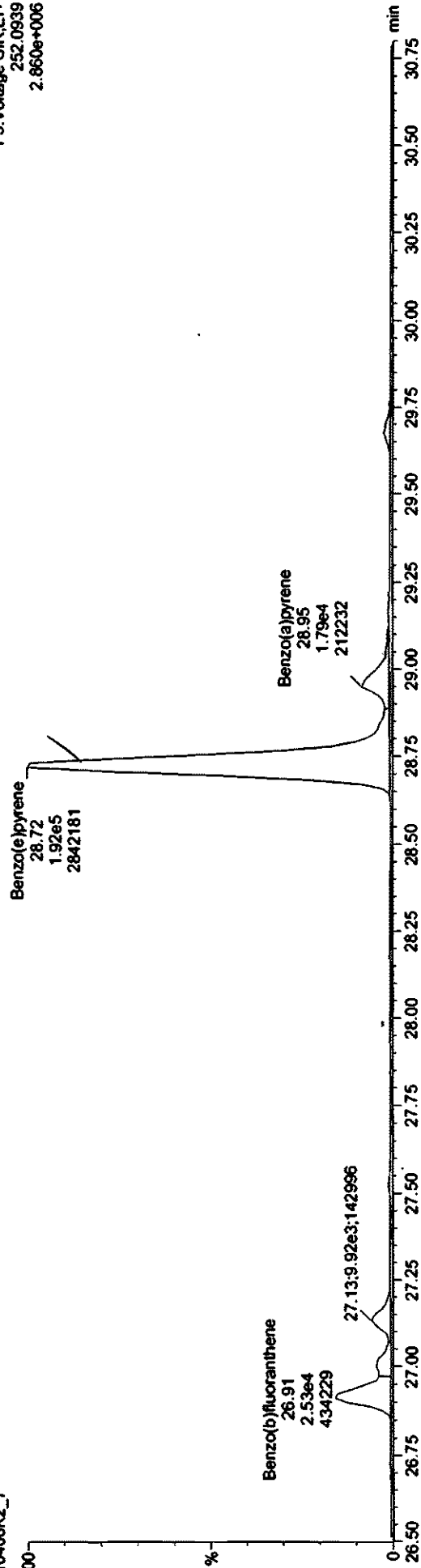
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Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

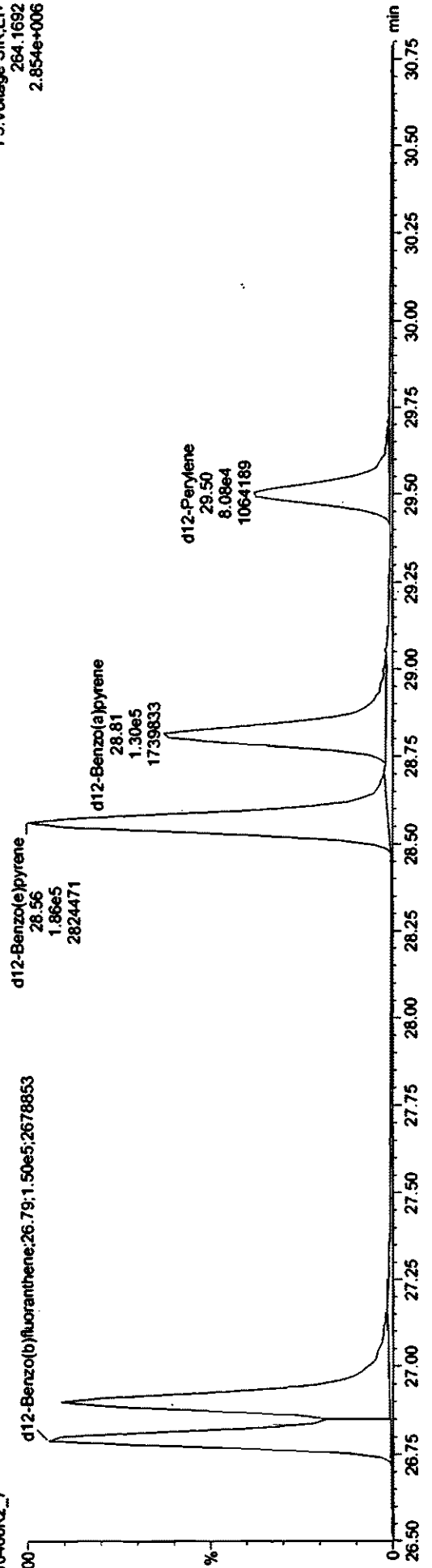
Benzo-PAHs
210406K2_7

F3:Voltage SIR,EI+
252.0939
2.860e+006



Benzo-Isotopes
210406K2_7

F3:Voltage SIR,EI+
264.1692
2.854e+006

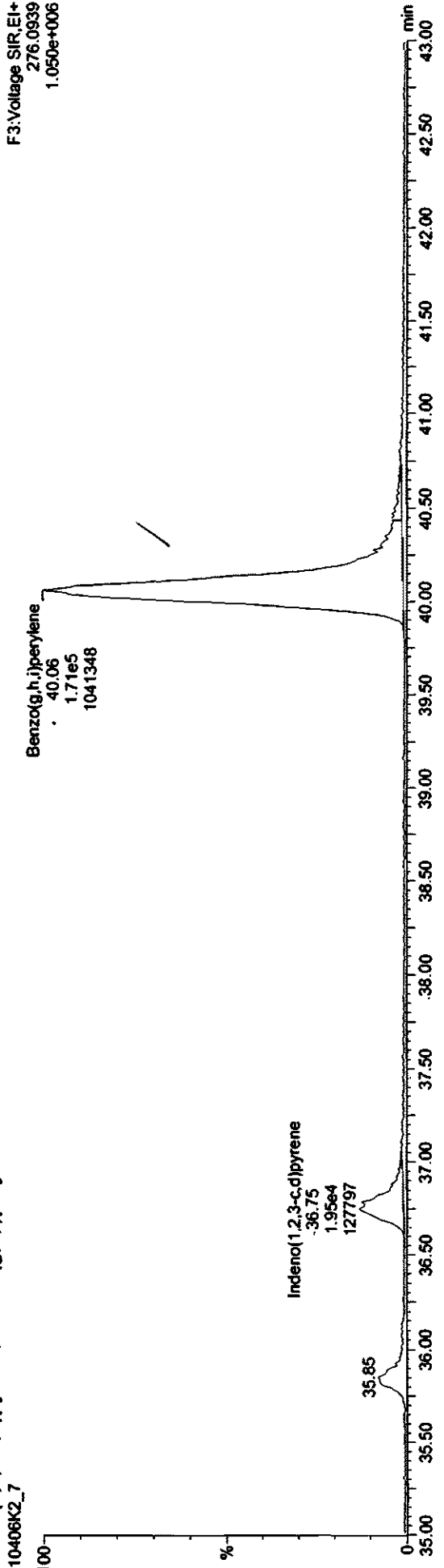


Dataset: U:\VG11.PRO\Results\210406K2\210406K2-7.qld

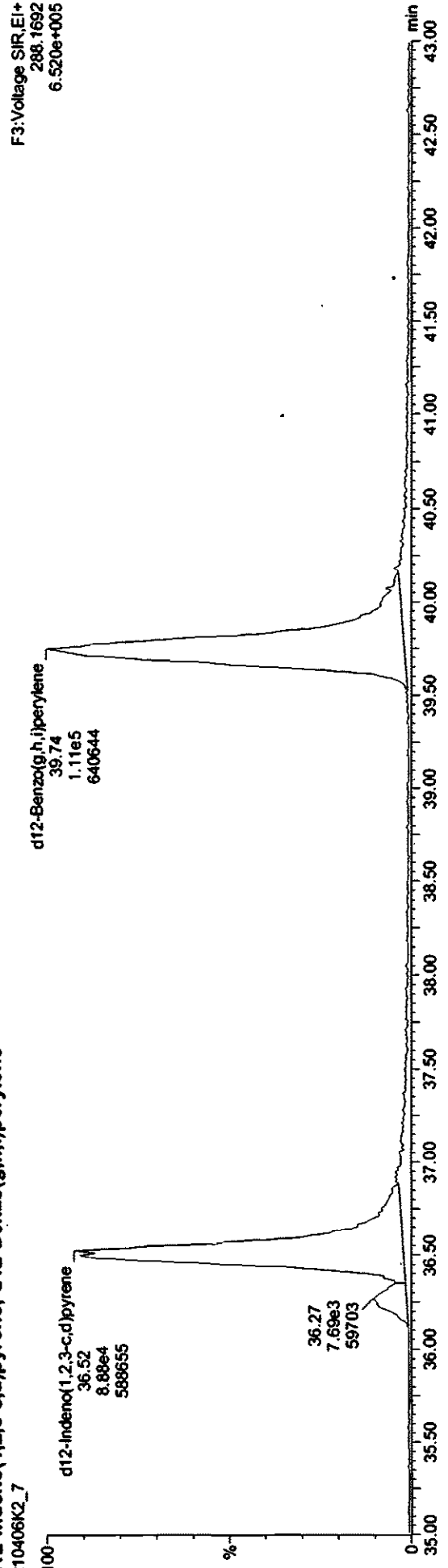
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Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

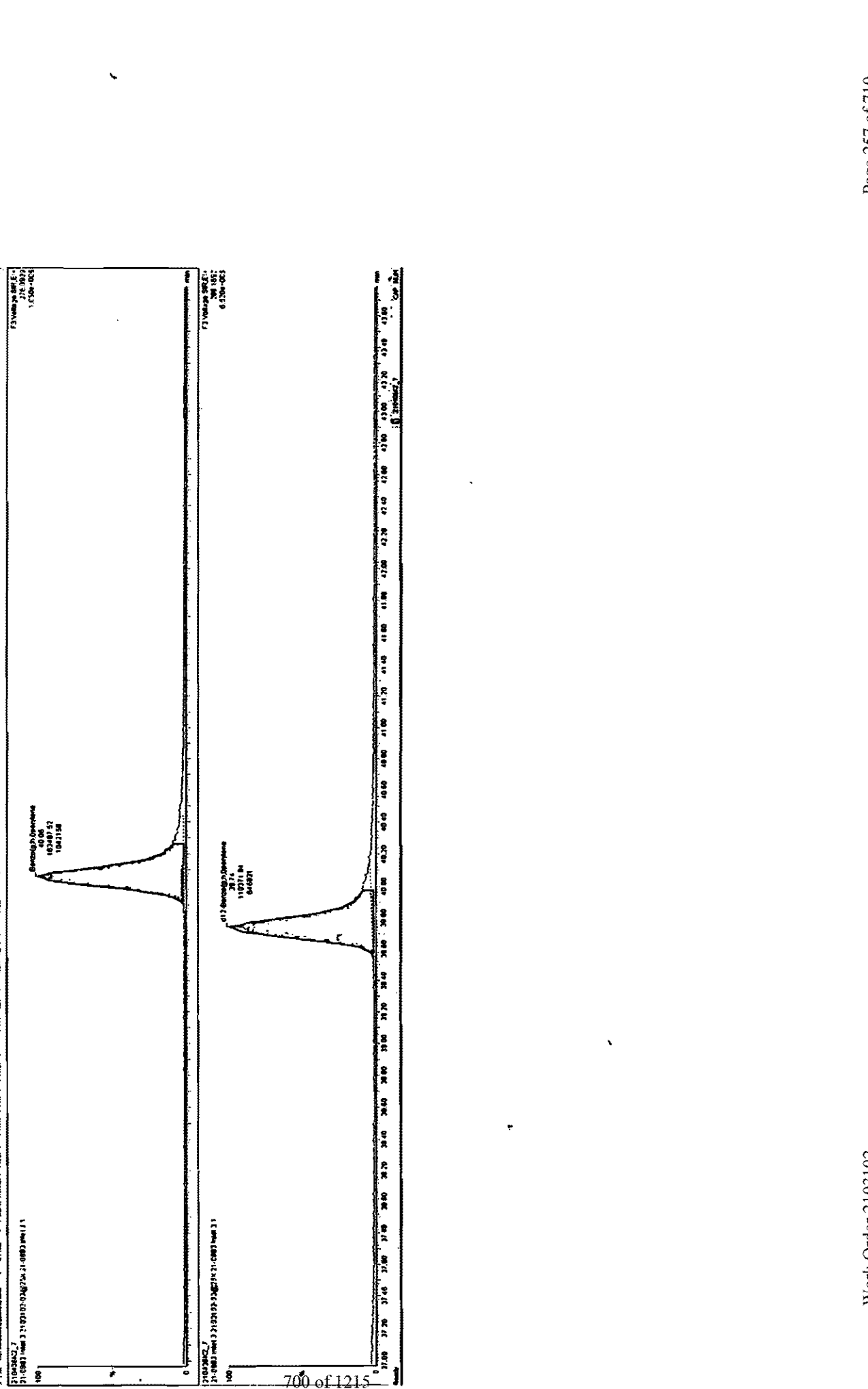
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene
210406K2_7



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene
210406K2_7



| Time | Area | Height | Width | Height/Width | Area/Width | Area/Height | Area/Width/Height | Area/Width/Height | Area/Width/Height |
|------|------|--------|-------|--------------|------------|-------------|-------------------|-------------------|-------------------|
| 15 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 16 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 17 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 18 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 19 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 20 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 21 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 22 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 23 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 24 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 25 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 26 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 27 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 28 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 29 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 30 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 31 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 32 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 33 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 34 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 35 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 36 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 37 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 38 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 39 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 40 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 41 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 42 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 43 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 44 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 45 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 46 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 47 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 48 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 49 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 50 | 1000 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

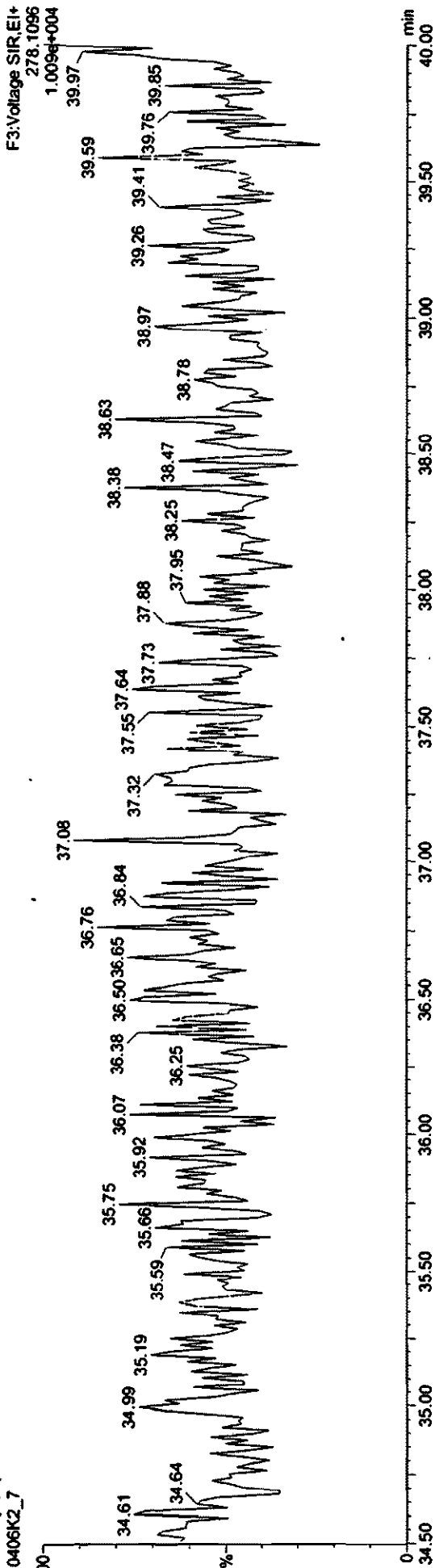


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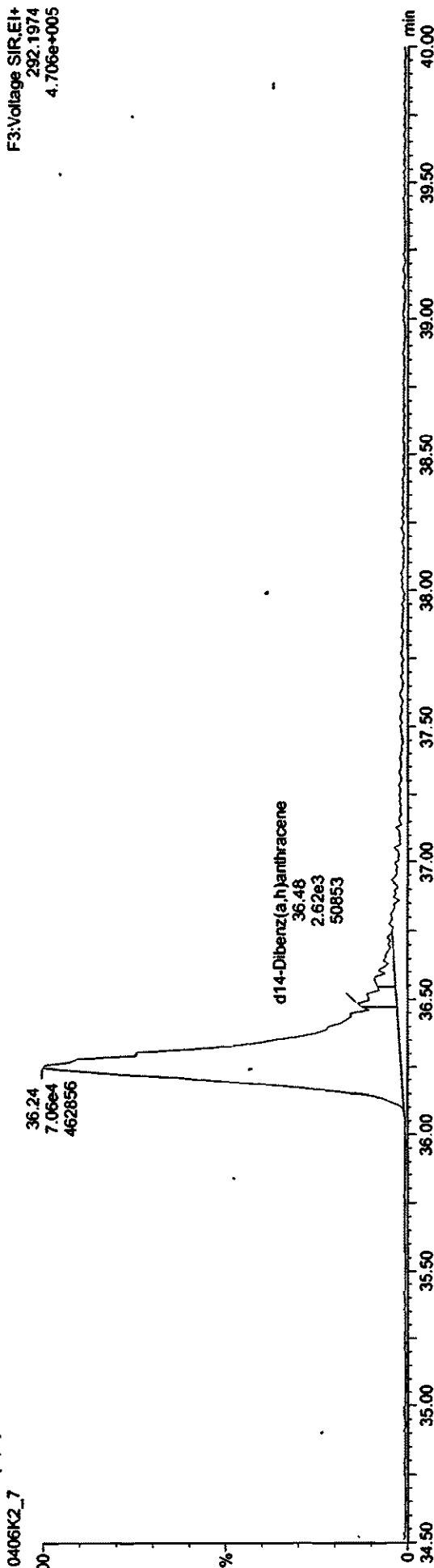
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Printed: Wednesday, April 07, 2021 11:52:40 AM Pacific Daylight Time

Name: 210406K2_7, Date: 07-Apr-2021, Time: 06:48:41, ID: 2103102-03@25X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

Dibenz(a,h)anthracene
210406K2_7



d14-Dibenz(a,h)anthracene
210406K2_7



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210407K1\210407K1-7.qld

Last Altered: Thursday, April 08, 2021 11:51:38 Pacific Daylight Time
Printed: Thursday, April 08, 2021 11:52:05 Pacific Daylight Time

Hz 4.8.2021

C₁₀/09/2021

* conc needs to be x1000

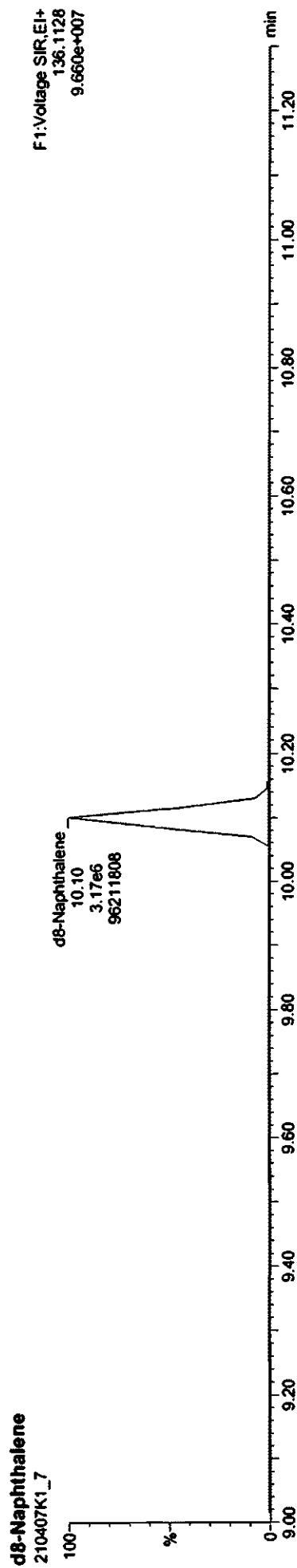
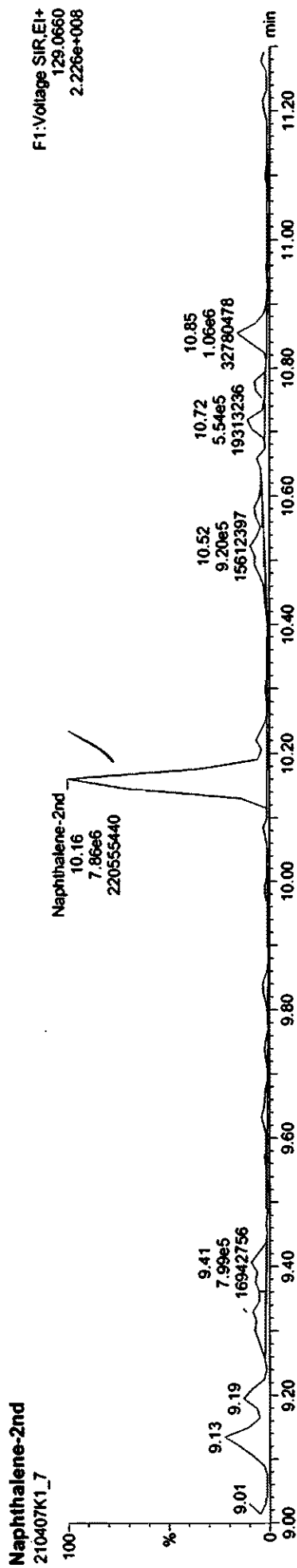
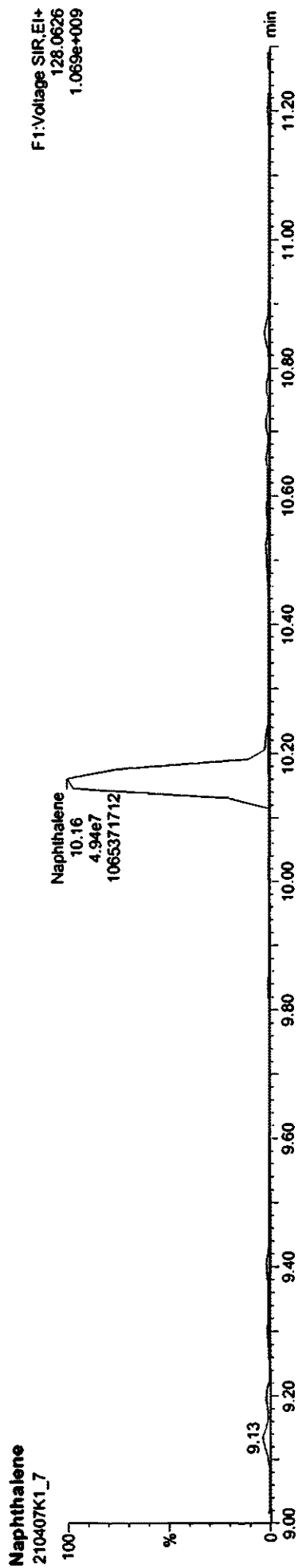
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Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11
Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

| # | Name | Resp | IS Resp | RRF | wVol | Pred.RT | L | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|---|-------------------------------|--------|---------|-------|-------|---------|-------|-------|----------|-------|---------|----------|----------|--------|
| 1 | Naphthalene | 4.94e7 | 3.17e6 | 1.16 | 1.000 | 10.16 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 2700 SAT | | 4.15 |
| 2 | Naphthalene-2nd | 7.53e6 | 3.17e6 | 0.128 | 1.000 | 10.16 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 3730 | 3730,000 | 67.9 |
| 3 | 2-Methylnaphthalene | 1.90e7 | 1.92e6 | 1.38 | 1.000 | 11.60 | 11.61 | 11.61 | 0.794 | 0.795 | NO | 1440 | 1440,000 | 2.04 |
| 4 | Acenaphthylene | 9.64e4 | 3.00e6 | 1.12 | 1.000 | 14.37 | 14.35 | 14.35 | 1.003 | 1.002 | NO | 5.77 | 5.770 | 2.71 |
| 5 | 2,8-Dibenzofluorene | 3.17e6 | 7.28e5 | 1.20 | 1.000 | 10.11 | 10.10 | 10.10 | 0.848 | 0.848 | NO | 182 | 90.8 | 0.173 |
| 6 | 2,3-Dibenzofluorene | 3.00e6 | 7.28e5 | 0.905 | 1.000 | 14.31 | 14.32 | 14.32 | 1.201 | 1.203 | NO | 230 | 114 | 0.790 |
| 7 | 1,2,3,4-Tetrahydronaphthalene | 1.92e6 | 7.28e5 | 0.594 | 1.000 | 14.60 | 14.60 | 14.60 | 1.226 | 1.225 | NO | 224 | 111 | 0.128 |
| 8 | 4,5,6,7,8-Pentabenzofluorene | 7.28e5 | 7.28e5 | 1.00 | 1.000 | 20.81 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 50.4 | 100 | 0.0171 |

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



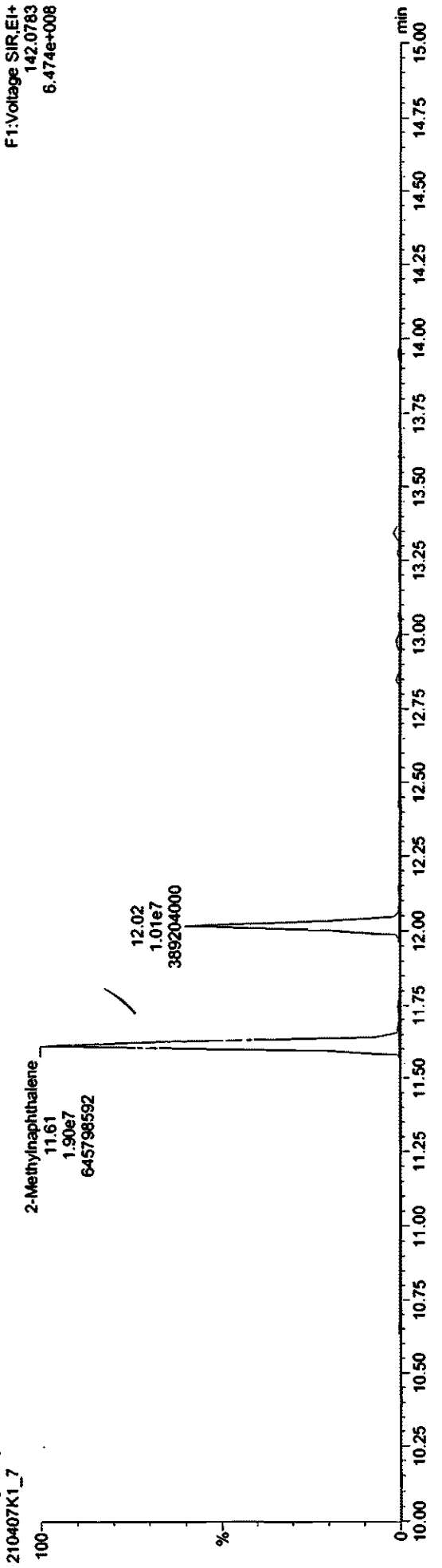
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Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

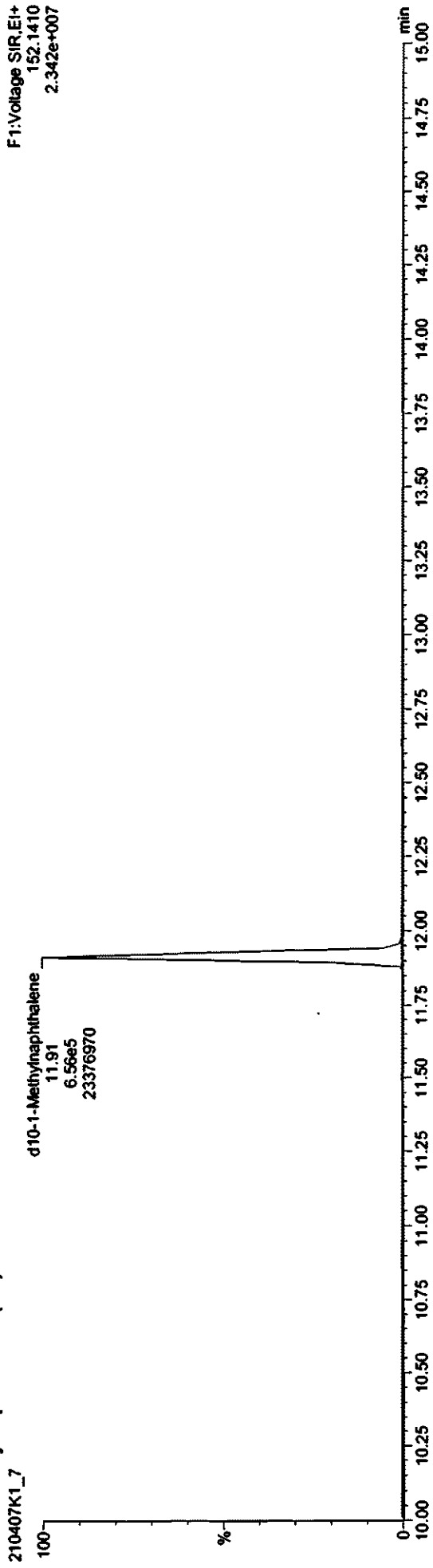
2-Methylnaphthalene

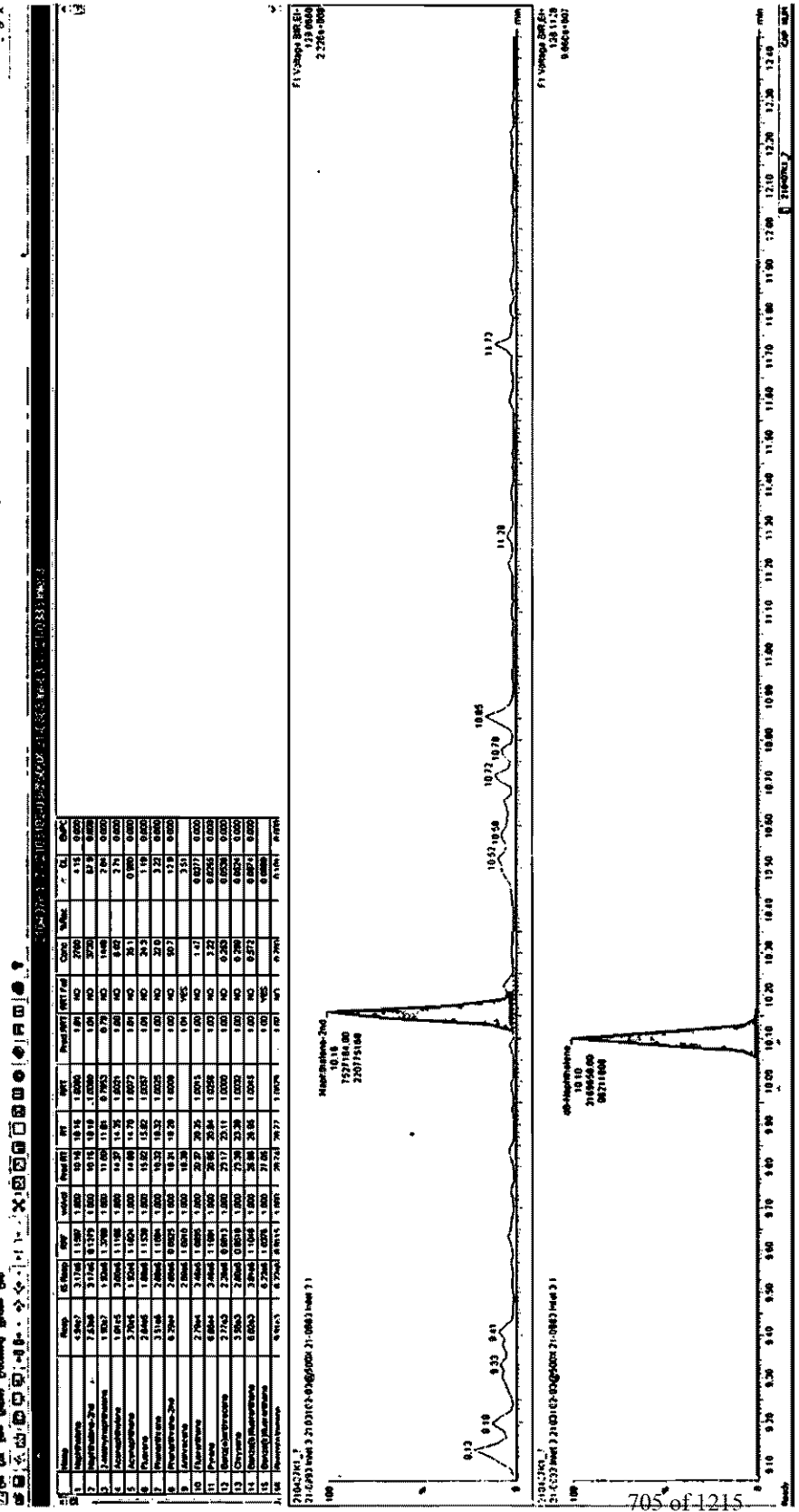
F1:Voltage SIR,EI+
142.0783
6.474e+008



d10-1-Methylnaphthalene (RS)

F1:Voltage SIR,EI+
152.1410
2.342e+007





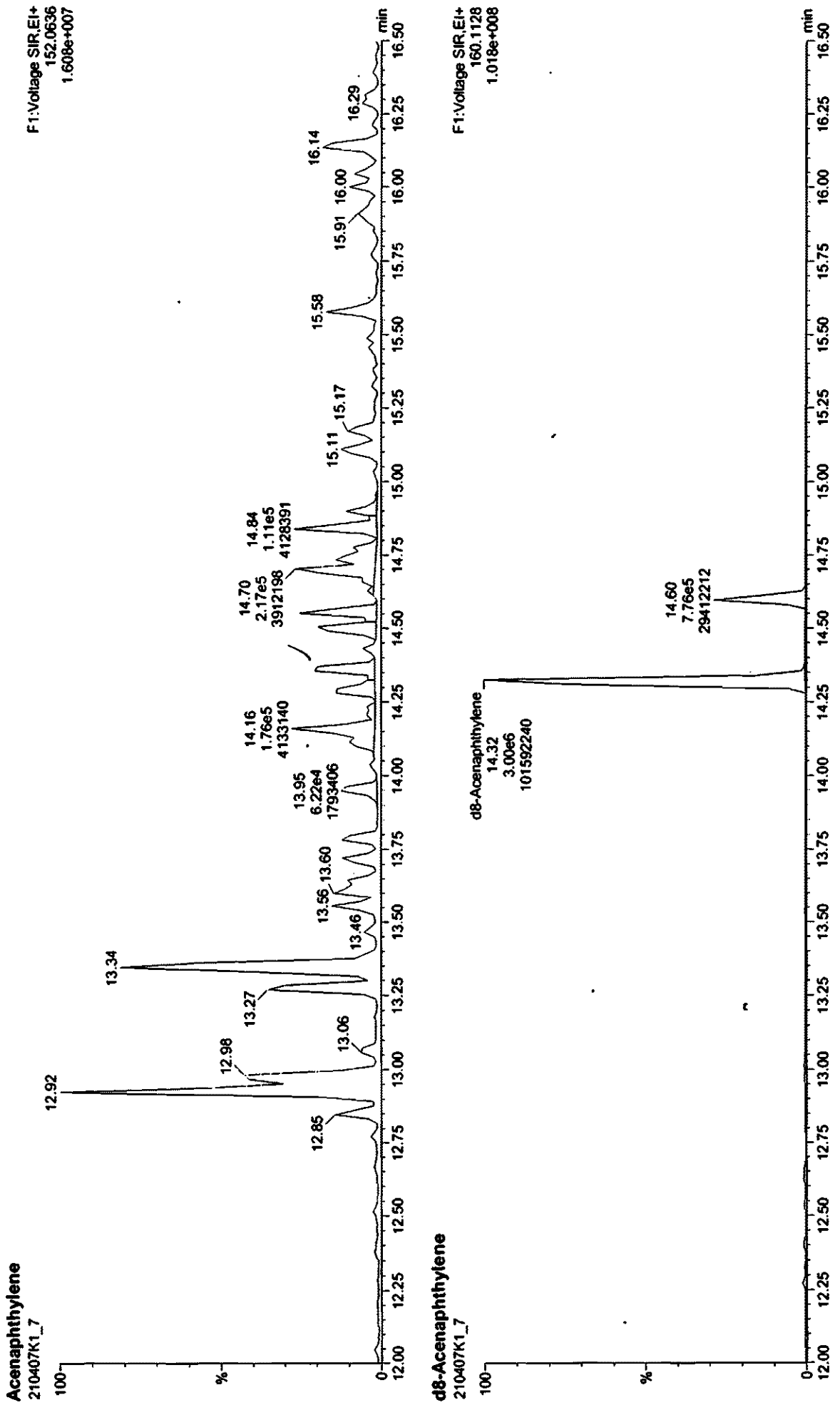
| Peak | Retention Time (min) | Area | Height | Width | Resolution | Signal-to-Noise | Integration |
|------|----------------------|------|--------|-------|------------|-----------------|-------------|
| 1 | 9.10 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 2 | 9.33 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 3 | 9.41 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 4 | 10.10 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 5 | 10.18 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 6 | 10.37 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 7 | 10.58 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 8 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 9 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |

| Peak | Retention Time (min) | Area | Height | Width | Resolution | Signal-to-Noise | Integration |
|------|----------------------|------|--------|-------|------------|-----------------|-------------|
| 10 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 11 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 12 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 13 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 14 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 15 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 16 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 17 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 18 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 19 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 20 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 21 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 22 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 23 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 24 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 25 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 26 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 27 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 28 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 29 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 30 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 31 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 32 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 33 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 34 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 35 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 36 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 37 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 38 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 39 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 40 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 41 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 42 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 43 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 44 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 45 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 46 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 47 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 48 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 49 | 11.73 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |
| 50 | 11.70 | 1500 | 100 | 0.10 | 1.00 | 100 | 0.000 |

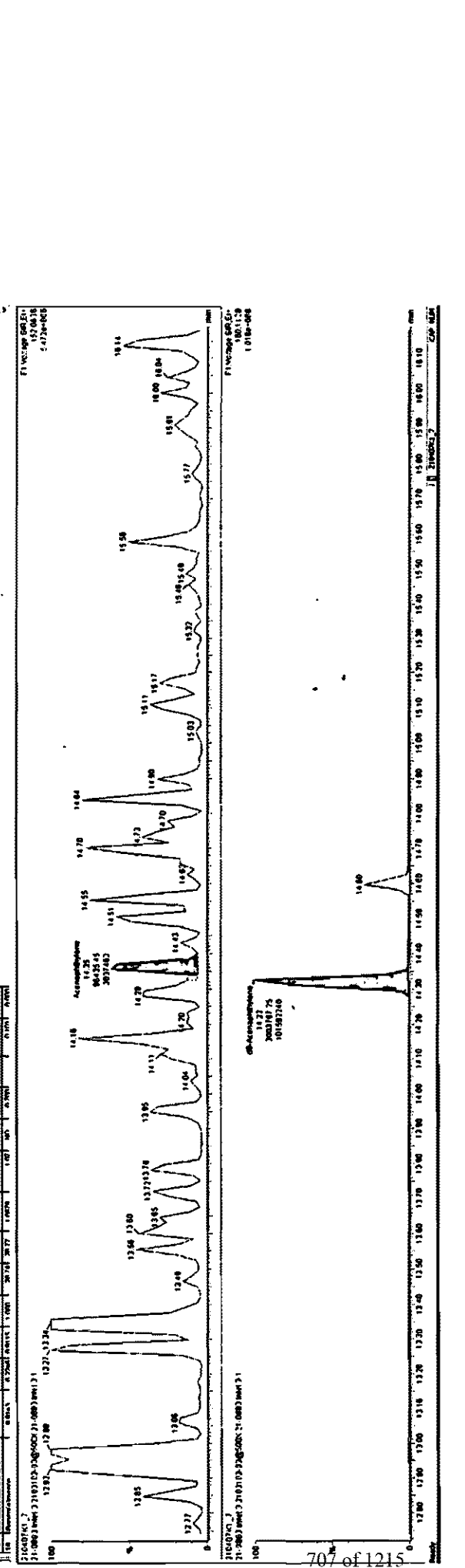
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



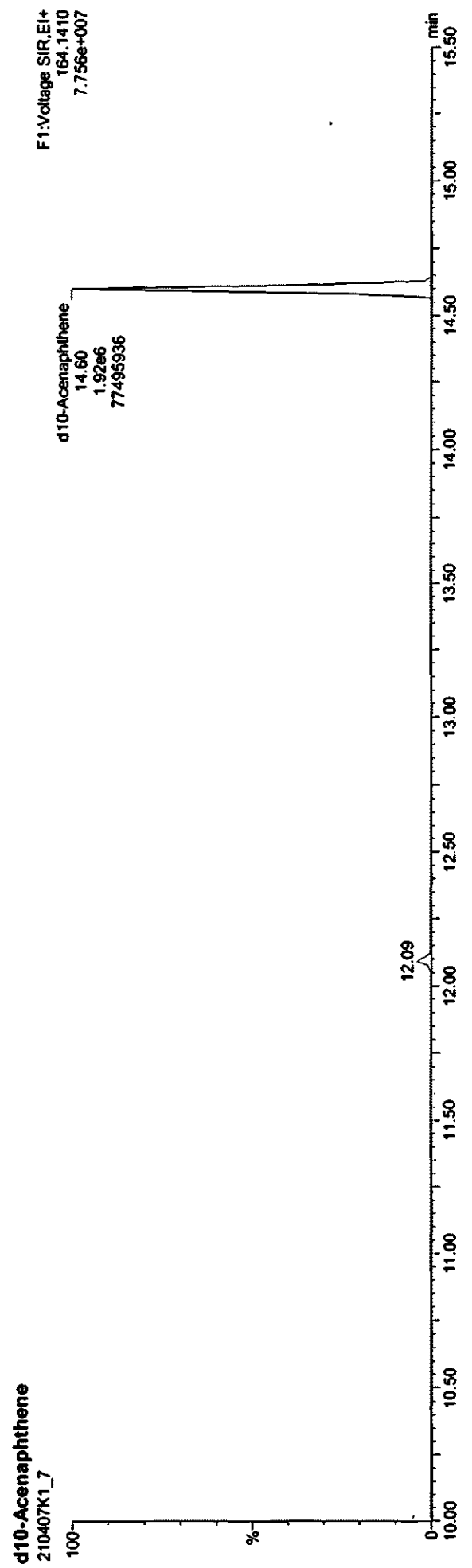
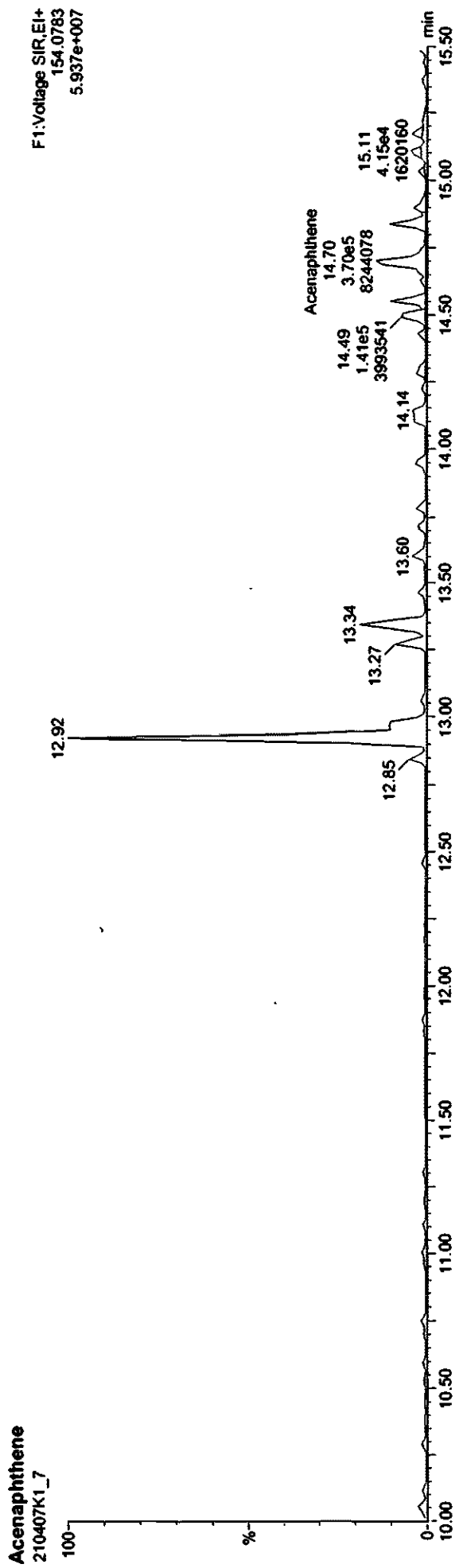
| PKT | RT | Area | Height | Width | Area% | Height% | Width% | Area% | Height% | Width% | Area% | Height% | Width% |
|-----|-------|---------|---------|---------|-------|---------|--------|-------|---------|--------|-------|---------|--------|
| 1 | 13.85 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 2 | 14.18 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 3 | 14.55 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 4 | 14.70 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 5 | 14.83 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 6 | 15.11 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 7 | 15.17 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 8 | 15.32 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 9 | 15.48 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 10 | 15.77 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 11 | 15.81 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 12 | 16.00 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 13 | 16.14 | 1000000 | 1000000 | 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

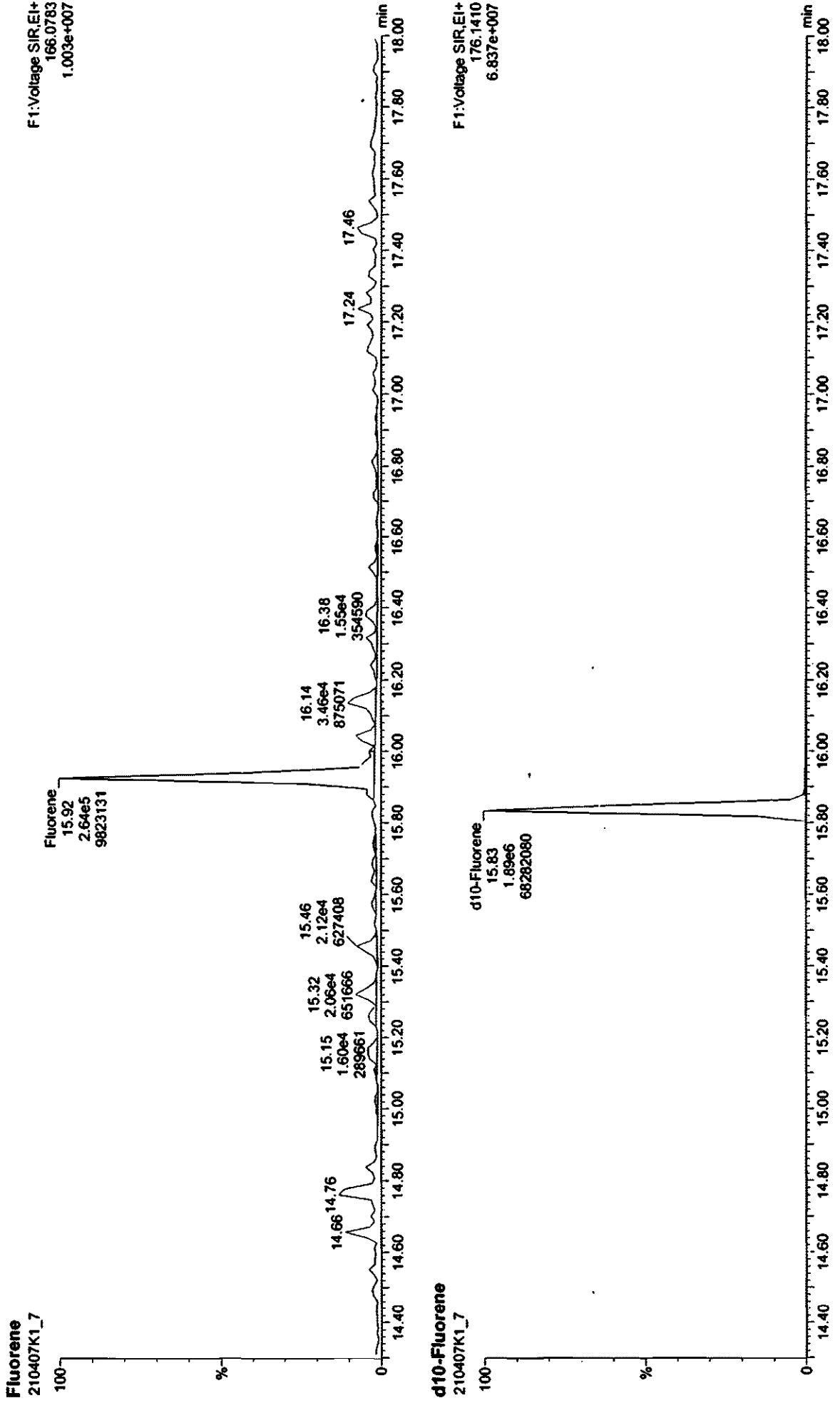


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

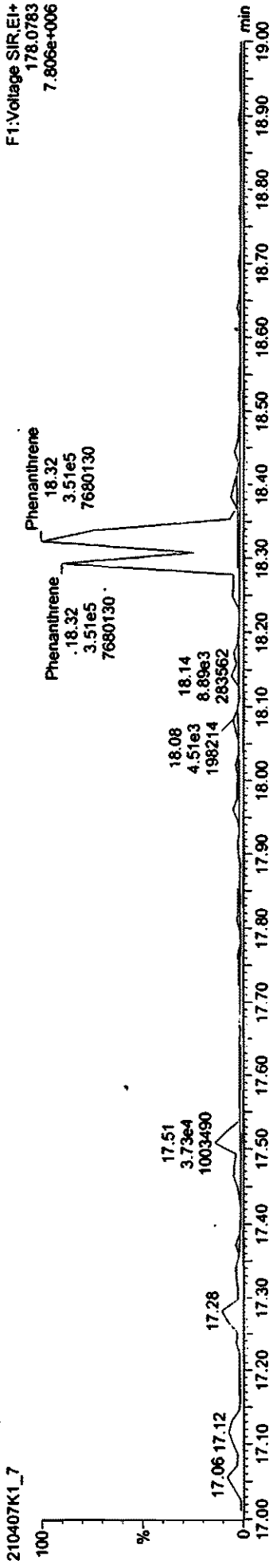


Dataset: Untitled

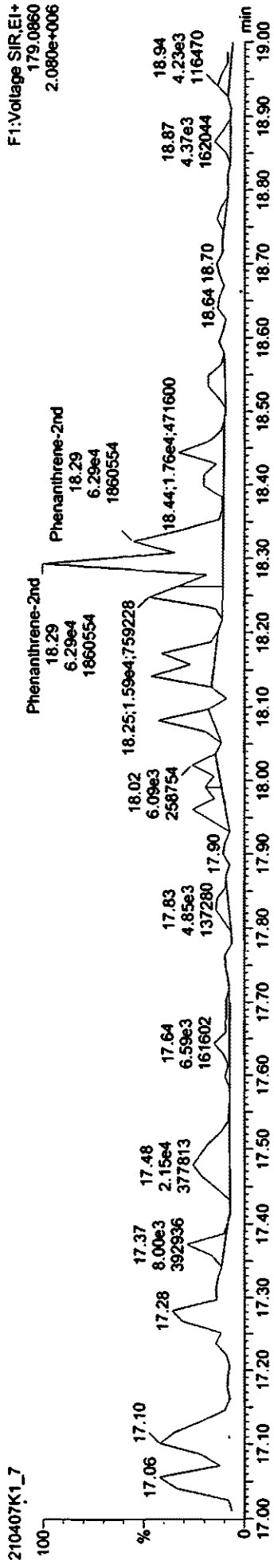
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

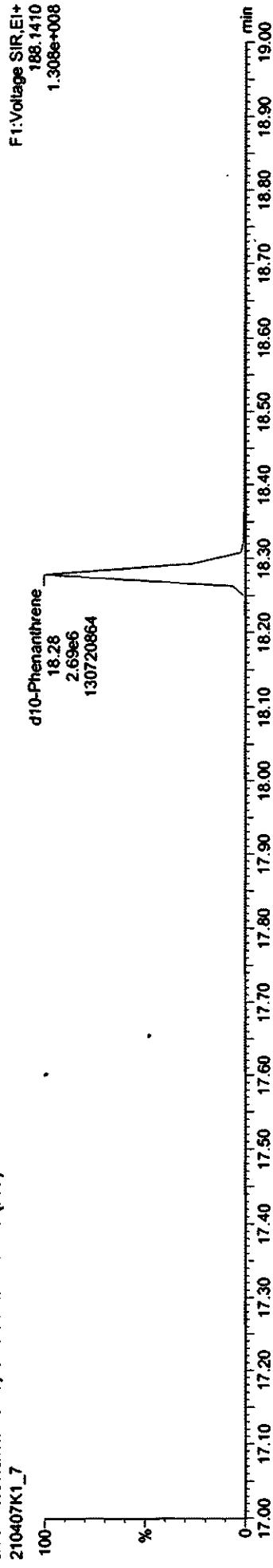
Phenanthrene; Anthracene



Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

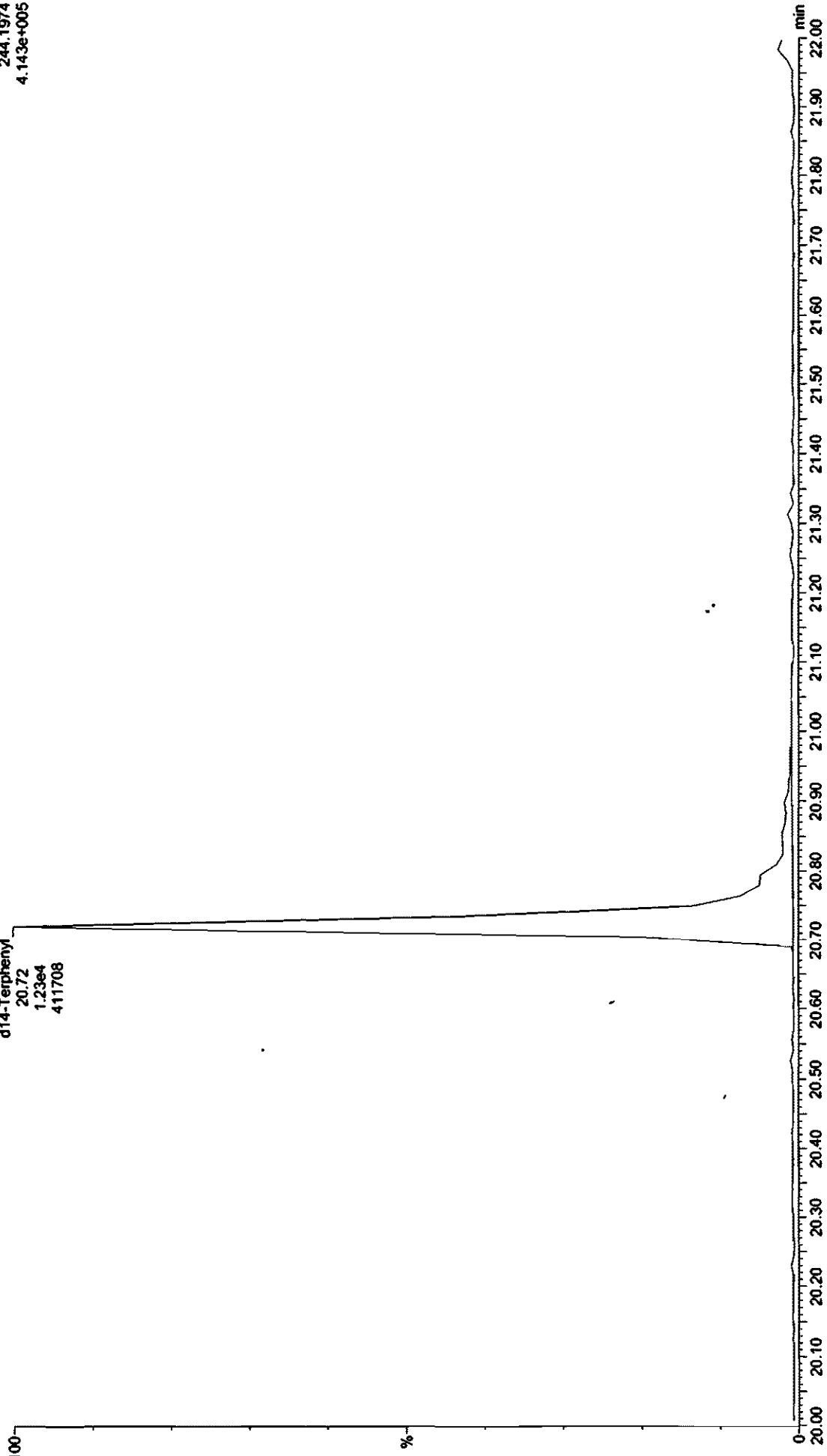
Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

d14-Terphenyl (PS)

210407K1_7

d14-Terphenyl
20.72
1.23e4
411708

F2:Voltage SIR.EI+
244.1974
4.143e+005



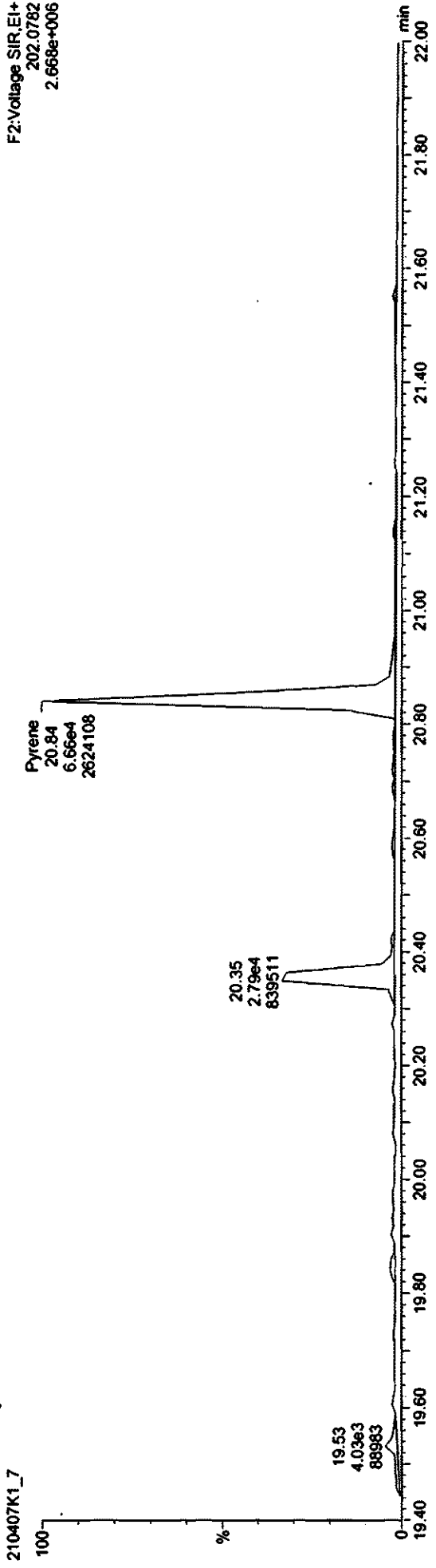
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

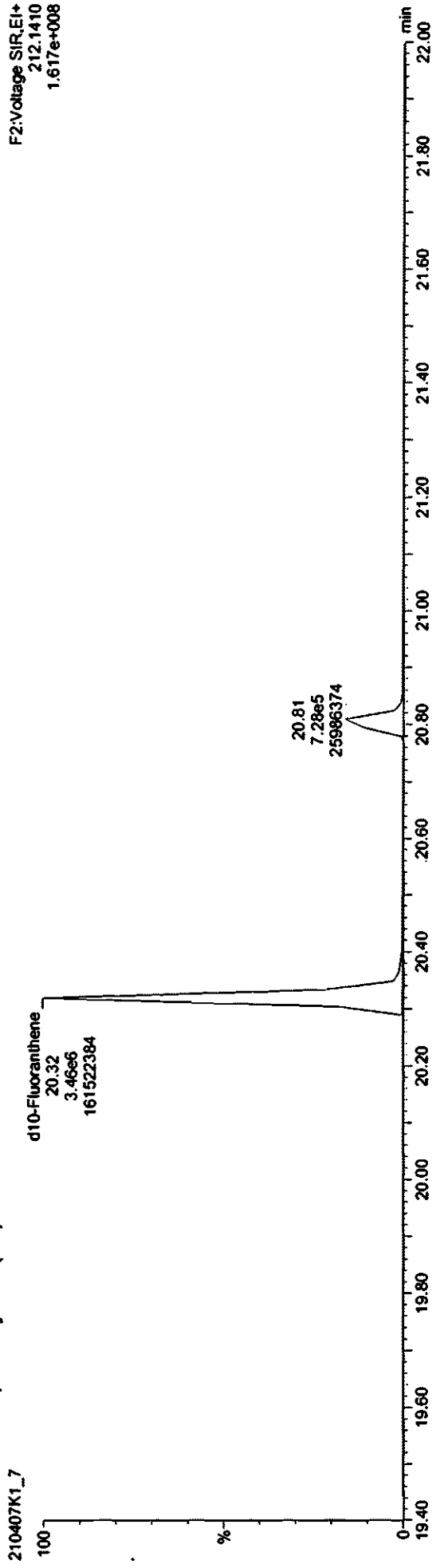
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
2.668e+006



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
1.617e+008



Dataset: Untitled

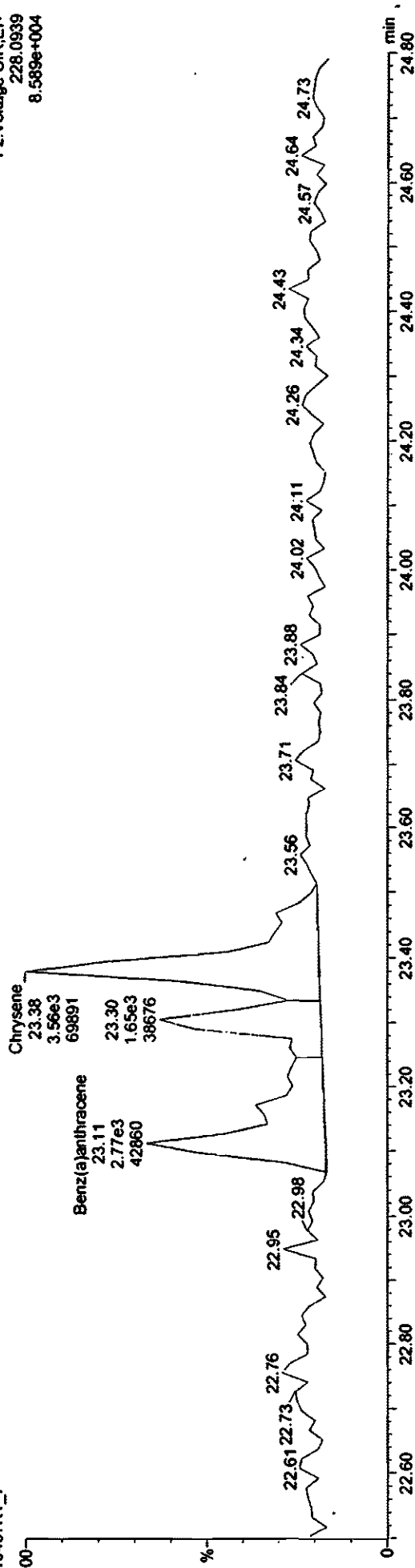
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

Benz(a)Anthracene-Chrysene

210407K1_7

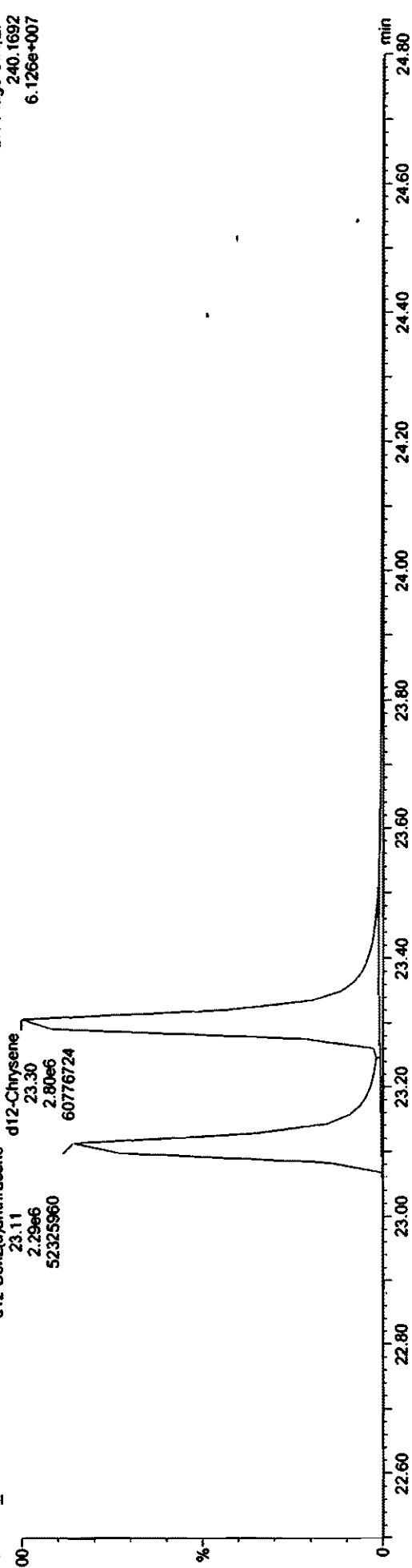
F2:Voltage SIR,EI+
228.0939
8.589e+004



Benz(a)Anthracene-Chrysene-Iso

210407K1_7

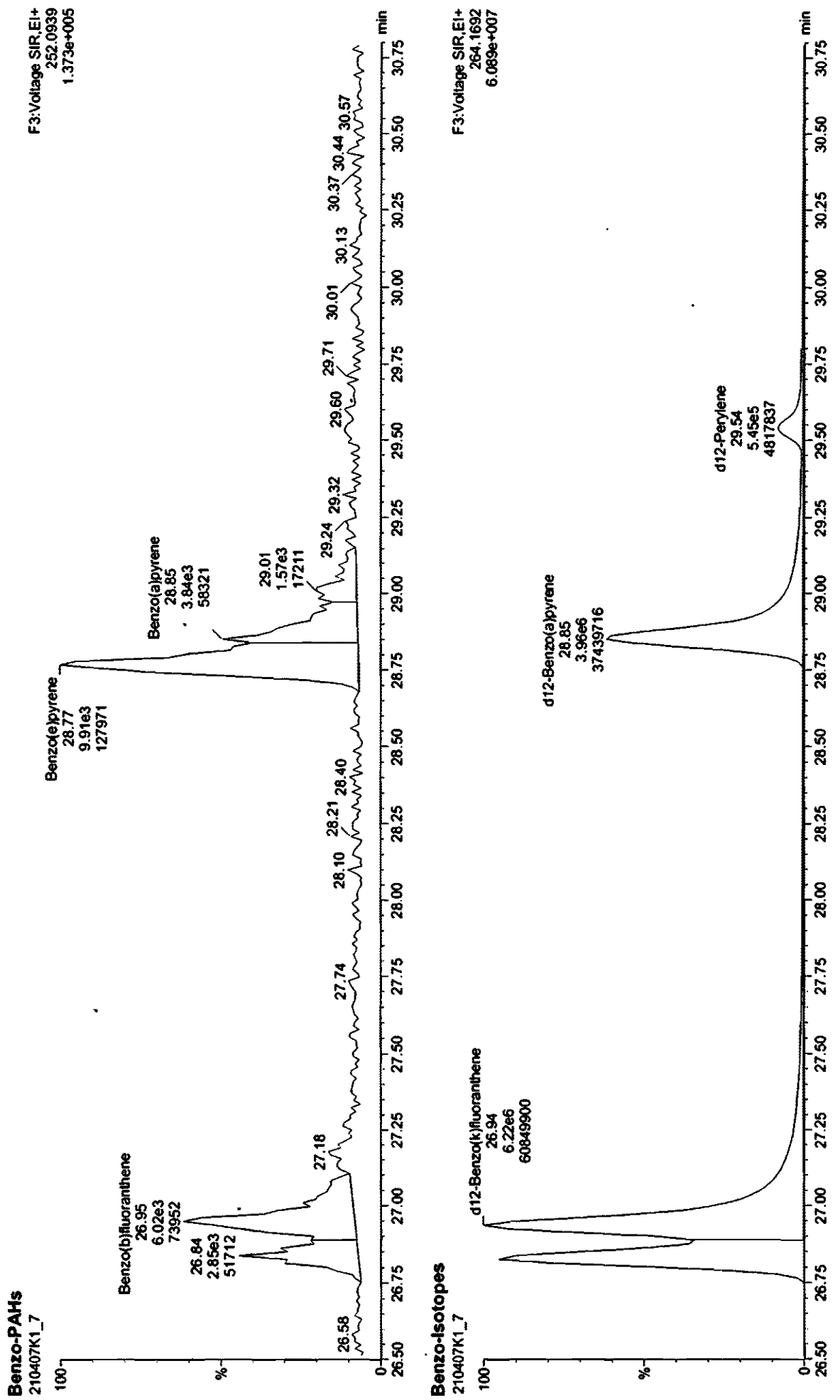
F2:Voltage SIR,EI+
240.1692
6.126e+007



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3



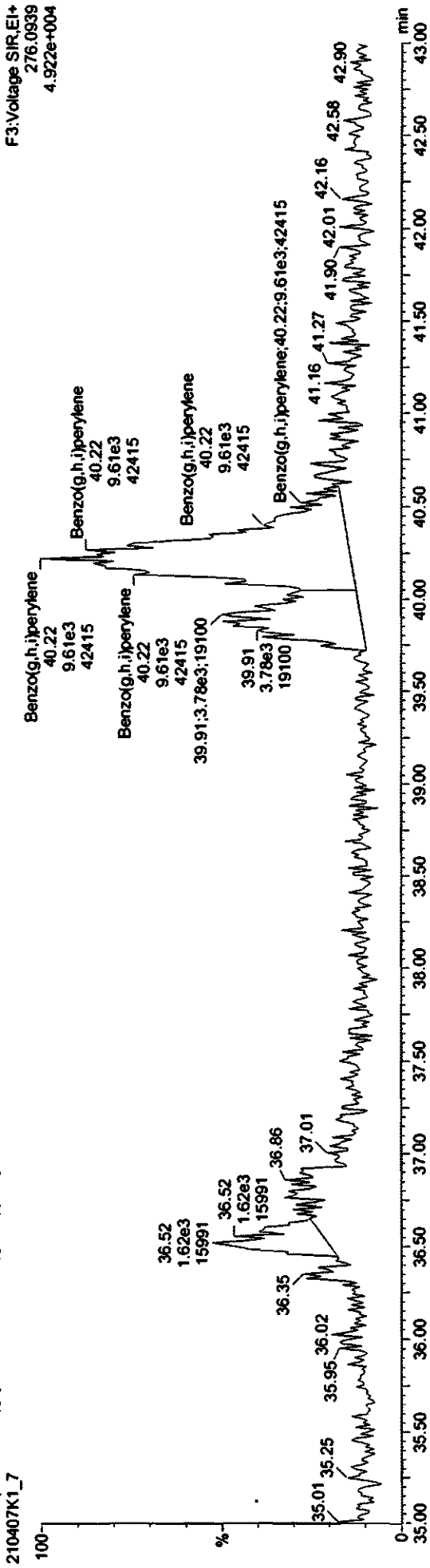
Dataset: Untitled

Last Alièred: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

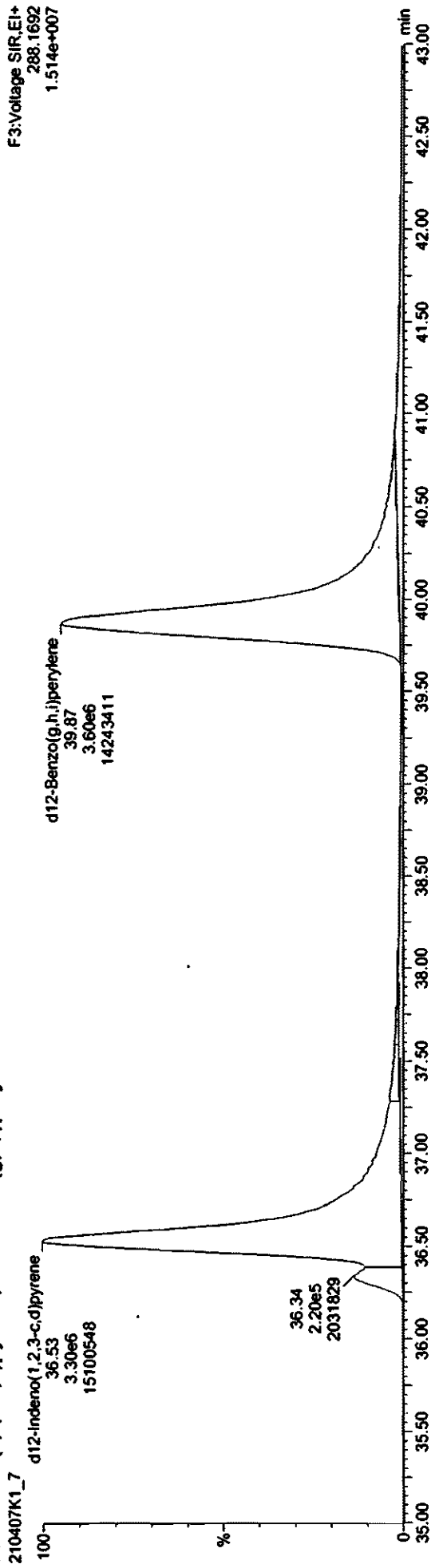
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
4.922e+004



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
288.1692
1.514e+007

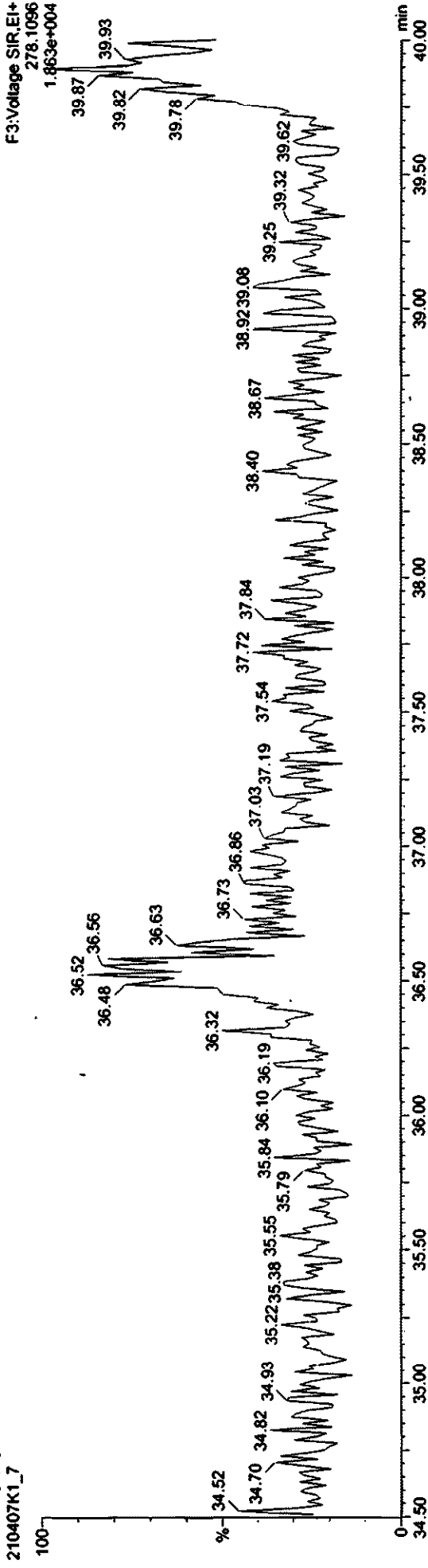


Dataset: Untitled

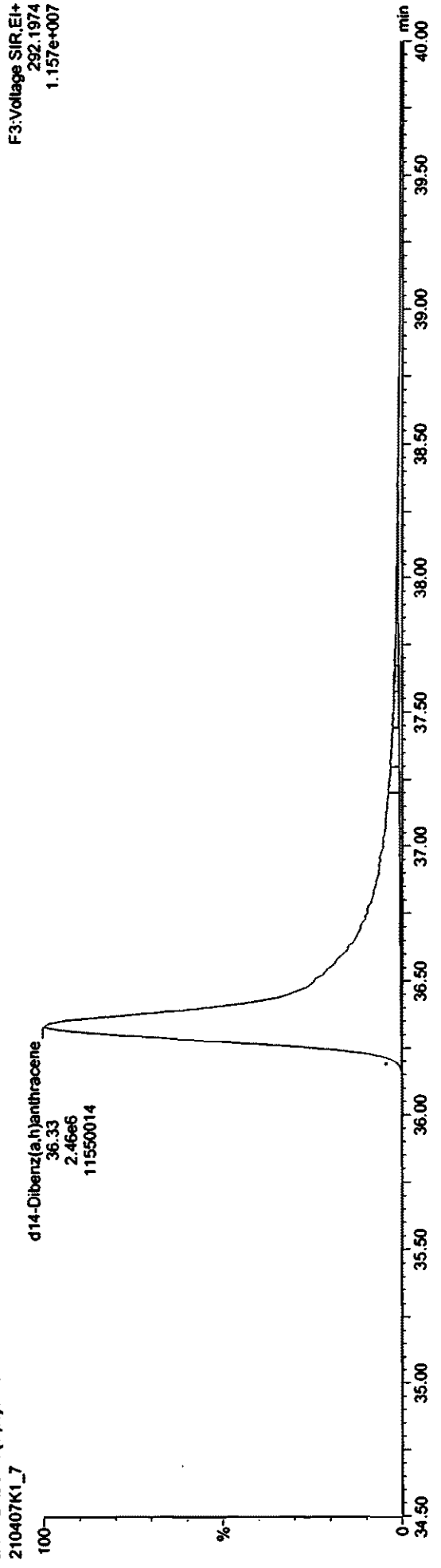
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_7, Date: 07-Apr-2021, Time: 20:54:32, ID: 2103102-03@500X 21-0883 Inlet 3 1, Description: 21-0883 Inlet 3

Dibenz(a,h)anthracene



d14-Dibenz(a,h)anthracene



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1210406K1-16.qld

Last Altered: Wednesday, April 07, 2021 10:00:45 AM Pacific Daylight Time.
Printed: Wednesday, April 07, 2021 10:01:21 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1, Description: 21-0883 Outlet 1

Handwritten: H. J. W. L. CT 04/08/2021

Handwritten: * see d.l

| L# | Name | Resp | S Resp | RRF | w/vol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|-------------------------|--------|--------|--------|-------|---------|-------|---------|-------|---------|----------|--------|--------|
| 1 | Naphthalene | 5.53e6 | 1.64e6 | 1.16 | 1.000 | 10.17 | 10.16 | 1.006 | 1.004 | NO | 581 | | 47.5 |
| 2 | Naphthalene-2nd | 6.05e5 | 1.64e6 | 0.128 | 1.000 | 10.17 | 10.16 | 1.006 | 1.004 | NO | 581 | | 61.7 |
| 3 | 2-Methylnaphthalene | 5.09e6 | 9.77e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 757 E * | | 7.98 |
| 4 | Acenaphthylene | 2.43e5 | 1.60e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 27.2 | | 37.9 |
| 5 | Acenaphthene | 5.85e6 | 9.77e5 | 1.10 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | NO | 1090 E * | | 142 |
| 6 | Fluorene | 1.41e7 | 9.94e5 | 1.15 | 1.000 | 15.94 | 15.92 | 1.006 | 1.005 | NO | 2460 E * | | 74.9 |
| 7 | Phenanthrene | 2.05e7 | 1.48e6 | 1.19 | 1.000 | 18.32 | 18.34 | 1.002 | 1.003 | NO | 2330 E * | | 9.96 |
| 8 | Phenanthrene-2nd | 1.34e6 | 1.48e6 | 0.0925 | 1.000 | 18.31 | 18.34 | 1.002 | 1.003 | NO | 1600 E * | | 243 |
| 9 | Anthracene | 6.01e5 | 1.48e6 | 1.09 | 1.000 | 18.38 | 18.38 | 1.005 | 1.006 | NO | 74.5 | | 10.9 |
| 10 | Fluoranthene | 1.86e6 | 2.83e6 | 1.10 | 1.000 | 20.37 | 20.36 | 1.002 | 1.002 | NO | 120 | | 1.13 |
| 11 | Pyrene | 2.82e6 | 2.83e6 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 167 | | 1.04 |
| 12 | Benz(a)anthracene | 2.64e4 | 1.99e6 | 0.961 | 1.000 | 23.16 | 23.17 | 1.003 | 1.003 | NO | 2.76 | | 0.213 |
| 13 | Chrysene | 2.20e5 | 2.24e6 | 0.852 | 1.000 | 23.37 | 23.36 | 1.003 | 1.003 | NO | 23.2 | | 0.219 |
| 14 | Benzo(b)fluoranthene | 8.45e4 | 3.16e6 | 1.10 | 1.000 | 26.92 | 26.91 | 1.005 | 1.005 | NO | 9.67 | | 0.130 |
| 15 | Benzo(k)fluoranthene | 1.82e4 | 3.75e6 | 1.04 | 1.000 | 27.01 | 27.01 | 1.004 | 1.004 | NO | 1.87 | | 0.153 |
| 16 | Benzo(e)pyrene | 2.14e5 | 3.75e6 | 0.911 | 1.000 | 28.70 | 28.70 | 1.067 | 1.067 | NO | 25.0 | | 0.175 |
| 17 | Benzo(a)pyrene | 4.31e4 | 2.93e6 | 1.02 | 1.000 | 28.96 | 28.93 | 1.006 | 1.005 | NO | 5.79 | | 0.223 |
| 18 | Perylene | 1.52e4 | 2.93e6 | 0.987 | 1.000 | 29.70 | 29.66 | 1.031 | 1.030 | NO | 2.10 | | 0.230 |
| 19 | Indeno(1,2,3-c,d)pyrene | 4.80e4 | 1.92e6 | 0.915 | 1.000 | 36.84 | 36.88 | 1.007 | 1.008 | NO | 10.9 | | 0.987 |
| 20 | Benzo(g,h,i)perylene | 4.23e5 | 2.17e6 | 0.940 | 1.000 | 40.15 | 40.13 | 1.009 | 1.009 | NO | 82.8 | | 0.725 |
| 21 | Dibenz(a,h)anthracene | | 1.61e6 | 0.948 | 1.000 | 36.73 | | 1.011 | | YES | | | 0.751 |
| 22 | db-Naphthalene | 1.64e6 | 2.65e6 | 1.20 | 1.000 | 10.12 | 10.12 | 0.848 | 0.848 | NO | 103 | 51.4 | 0.290 |
| 23 | db-Acenaphthylene | 1.60e6 | 2.65e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 134 | 66.8 | 0.386 |
| 24 | d10-Acenaphthene | 9.77e5 | 2.65e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 124 | 62.0 * | 0.115 |
| 25 | d10-Fluorene | 9.94e5 | 2.65e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 133 | 66.6 * | 0.133 |
| 26 | d10-Phenanthrene | 1.48e6 | 2.65e6 | 0.735 | 1.000 | 18.28 | 18.28 | 1.533 | 1.533 | NO | 152 | 75.9 | 0.148 |
| 27 | d10-Fluoranthene | 2.83e6 | 2.65e6 | 1.29 | 1.000 | 20.33 | 20.32 | 0.977 | 0.976 | NO | 166 | 82.9 | 0.0265 |
| 28 | d12-Benz(a)anthracene | 1.99e6 | 2.65e6 | 0.900 | 1.000 | 23.11 | 23.10 | 1.110 | 1.110 | NO | 167 | 83.4 | 0.0537 |
| 29 | d12-Chrysene | 2.24e6 | 2.65e6 | 1.02 | 1.000 | 23.30 | 23.29 | 1.120 | 1.119 | NO | 165 | 82.5 | 0.0474 |
| 30 | d12-Benzobifluoranthene | 3.16e6 | 1.89e6 | 1.18 | 1.000 | 26.75 | 26.79 | 0.907 | 0.909 | NO | 284 | 70.9 | 0.157 |
| 31 | d12-Benzokifluoranthene | 3.75e6 | 1.89e6 | 1.50 | 1.000 | 26.86 | 26.90 | 0.911 | 0.912 | NO | 264 | 66.1 | 0.124 |

Quantify Sample Summary Report
Vista Analytical Laboratory

Masslynx 4.1 SCN815

Dataset: U:\WG11.PRO\Results\210406K1\210406K1-16.qld

Last Altered: Wednesday, April 07, 2021 10:00:45 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:01:21 AM Pacific Daylight Time

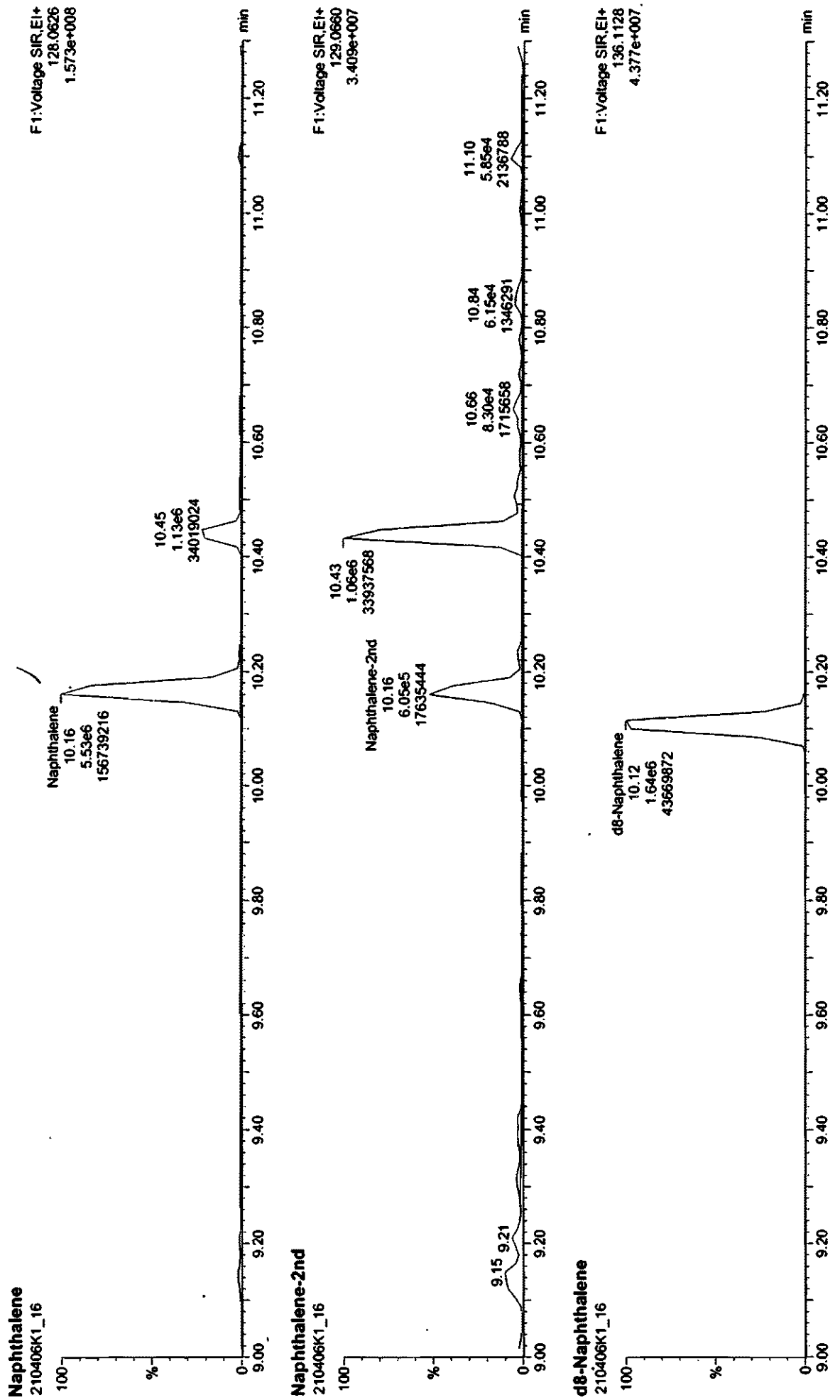
Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

| L# | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|---------|-------|---------|------|------|--------|
| 32 | d12-Benzof(e)pyrene | 2.93e6 | 1.89e6 | 1.24 | 1.000 | 28.74 | 28.79 | 0.975 | 0.977 | NO | 251 | 62.8 | 0.150 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 1.92e6 | 1.89e6 | 1.02 | 1.000 | 36.76 | 36.59 | 1.247 | 1.241 | NO | 200 | 50.1 | 0.172 |
| 34 | d12-Benzof(g,h,i)perylene | 2.17e6 | 1.89e6 | 1.00 | 1.000 | 40.16 | 39.78 | 1.362 | 1.349 | YES | 229 | 57.3 | 0.174 |
| 35 | d14-Dibenz(a,h)anthracene | 1.61e6 | 1.89e6 | 0.765 | 1.000 | 36.53 | 36.33 | 1.239 | 1.232 | NO | 222 | 55.6 | 0.239 |
| 36 | d10-Anthracene | 1.27e6 | 1.89e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 137 | 68.3 | 0.489 |
| 37 | d14-Terphenyl | 4.74e6 | 2.83e6 | 0.576 | 1.000 | 20.69 | 20.72 | 1.018 | 1.020 | NO | 582 | 116 | 0.0349 |
| 38 | d12-Benzof(e)pyrene | 4.25e6 | 3.75e6 | 0.738 | 1.000 | 28.52 | 28.55 | 1.060 | 1.061 | NO | 615 | 123 | 0.221 |
| 39 | d10-1-Methylnaphthalene | 1.64e6 | 1.64e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.125 |
| 40 | d10-Pyrene | 2.65e6 | 2.65e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 0.0341 |
| 41 | d12-Perylene | 1.89e6 | 1.89e6 | 1.00 | 1.000 | 29.59 | 29.48 | 1.000 | 1.000 | NO | 200 | 100 | 0.196 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

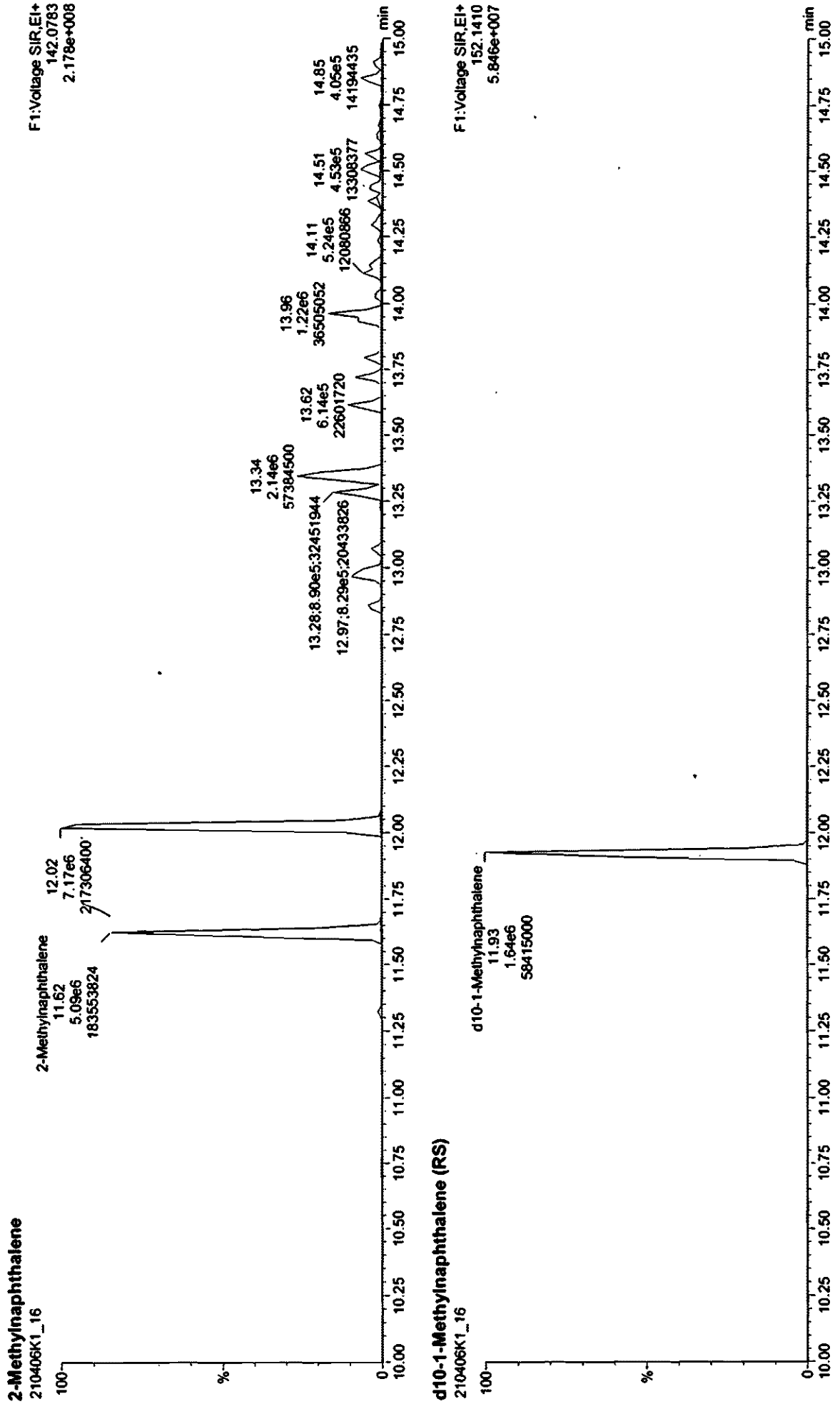
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Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

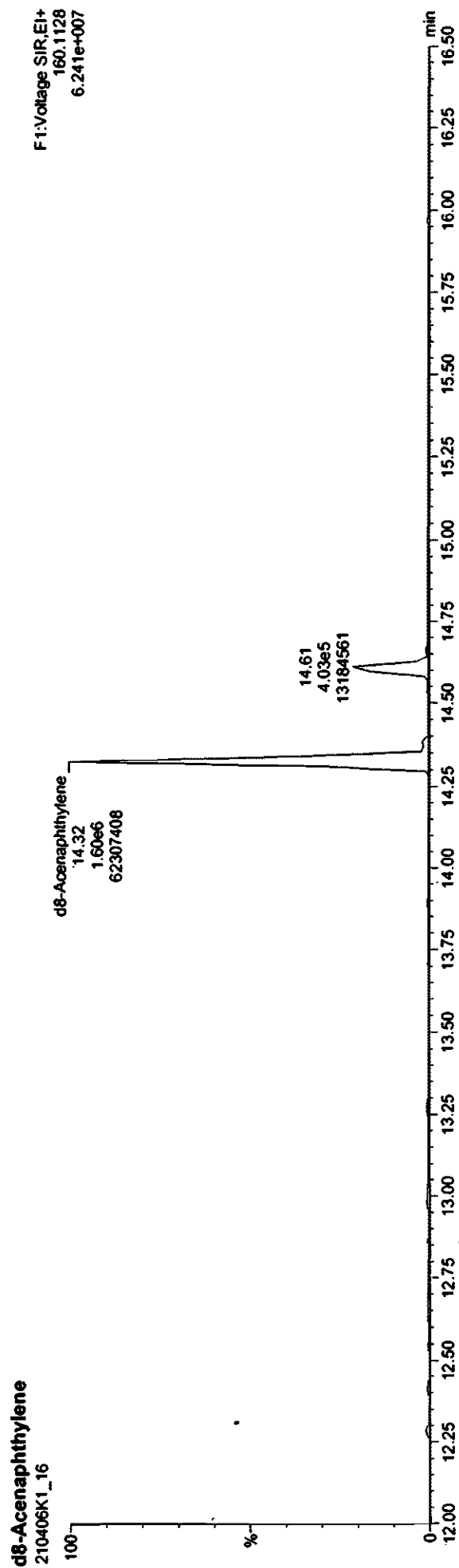
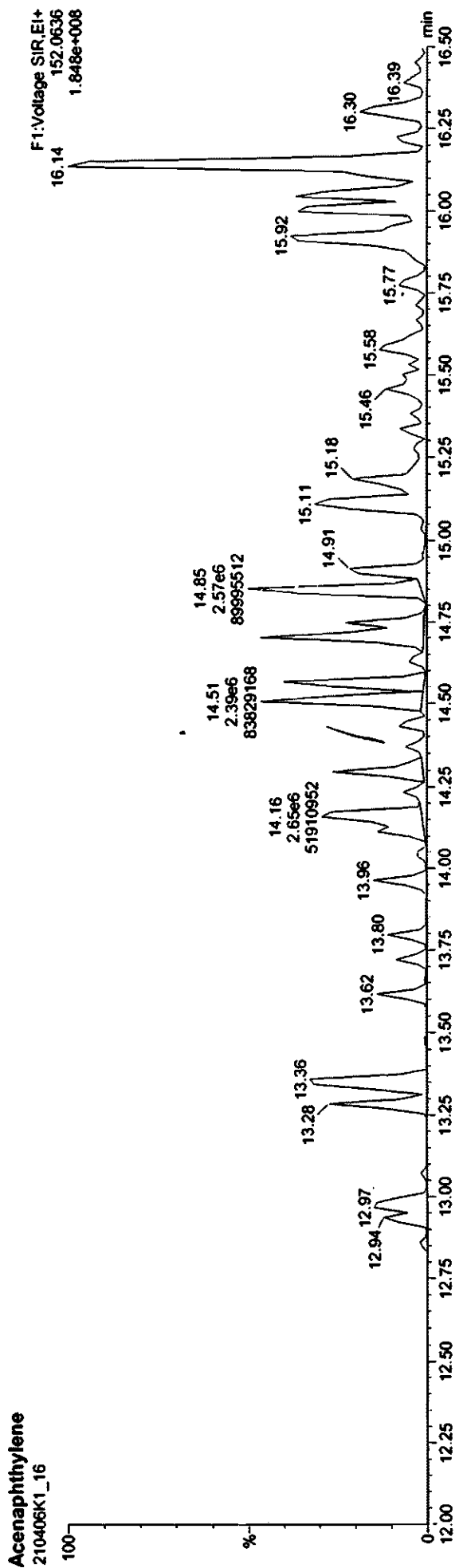


Quantify Sample Report
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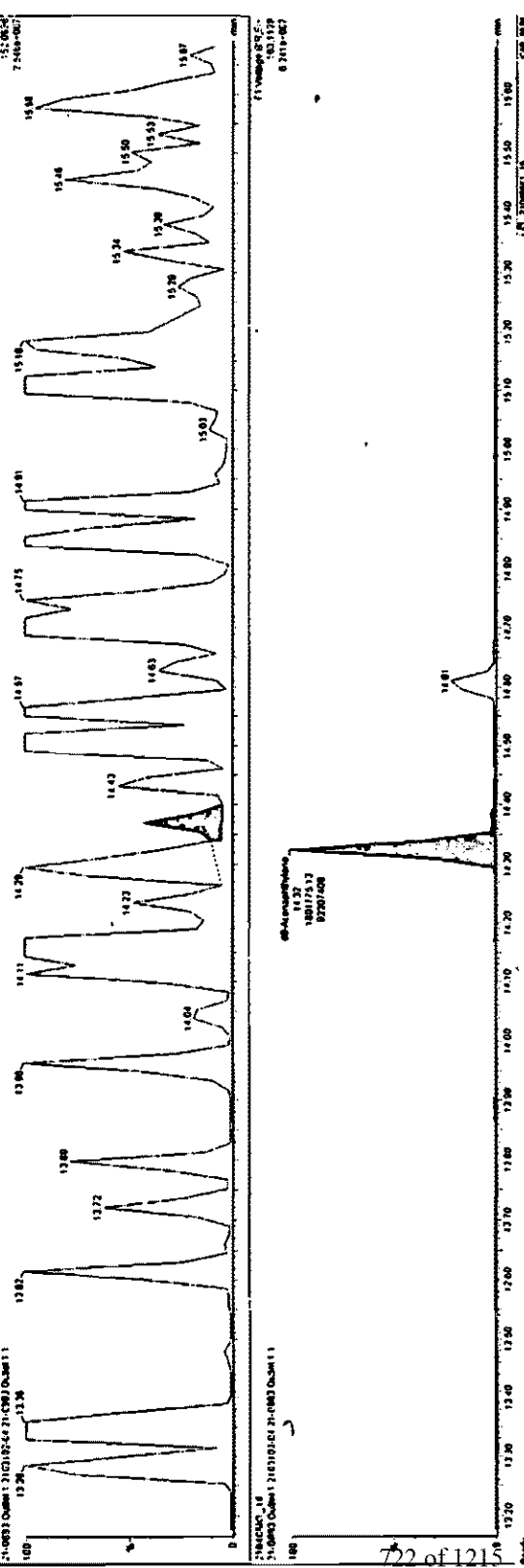
Dataset: Untitled

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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1, Description: 21-0883 Outlet 1



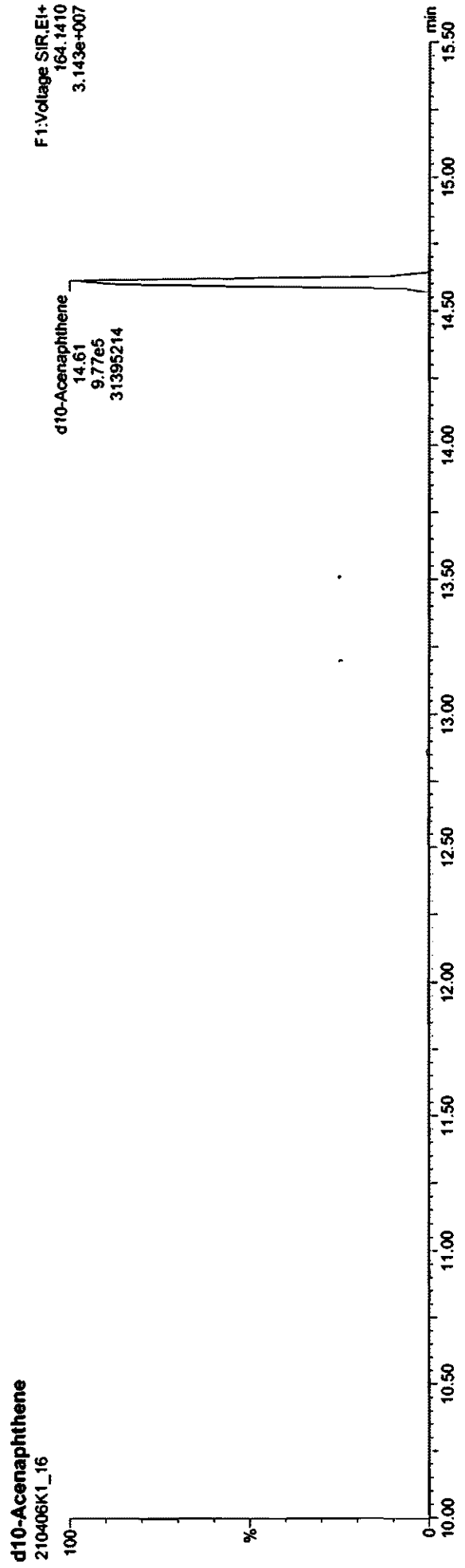
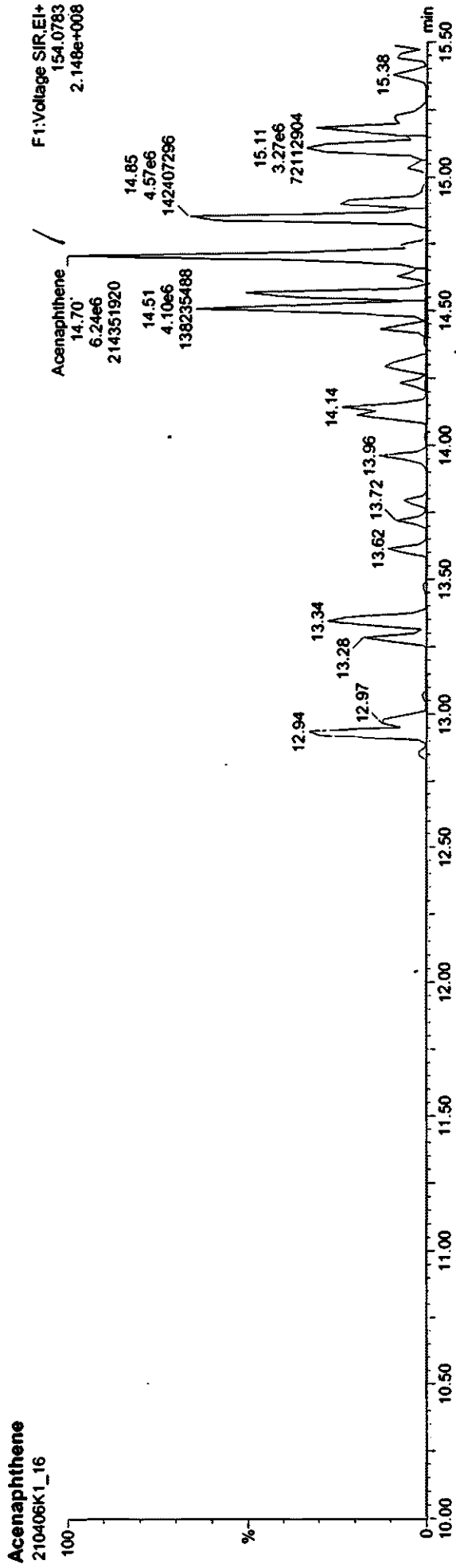
| Area | Area | Area | Area | Area | Area | Area | Area | Area | Area | Area |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 1.26 | 1.27 | 1.28 | 1.29 | 1.30 | 1.31 | 1.32 | 1.33 | 1.34 | 1.35 |
| 2 | 1.36 | 1.37 | 1.38 | 1.39 | 1.40 | 1.41 | 1.42 | 1.43 | 1.44 | 1.45 |
| 3 | 1.47 | 1.48 | 1.49 | 1.50 | 1.51 | 1.52 | 1.53 | 1.54 | 1.55 | 1.56 |
| 4 | 1.59 | 1.60 | 1.61 | 1.62 | 1.63 | 1.64 | 1.65 | 1.66 | 1.67 | 1.68 |
| 5 | 1.72 | 1.73 | 1.74 | 1.75 | 1.76 | 1.77 | 1.78 | 1.79 | 1.80 | 1.81 |
| 6 | 1.84 | 1.85 | 1.86 | 1.87 | 1.88 | 1.89 | 1.90 | 1.91 | 1.92 | 1.93 |
| 7 | 1.97 | 1.98 | 1.99 | 2.00 | 2.01 | 2.02 | 2.03 | 2.04 | 2.05 | 2.06 |
| 8 | 2.10 | 2.11 | 2.12 | 2.13 | 2.14 | 2.15 | 2.16 | 2.17 | 2.18 | 2.19 |
| 9 | 2.24 | 2.25 | 2.26 | 2.27 | 2.28 | 2.29 | 2.30 | 2.31 | 2.32 | 2.33 |
| 10 | 2.37 | 2.38 | 2.39 | 2.40 | 2.41 | 2.42 | 2.43 | 2.44 | 2.45 | 2.46 |
| 11 | 2.50 | 2.51 | 2.52 | 2.53 | 2.54 | 2.55 | 2.56 | 2.57 | 2.58 | 2.59 |
| 12 | 2.63 | 2.64 | 2.65 | 2.66 | 2.67 | 2.68 | 2.69 | 2.70 | 2.71 | 2.72 |
| 13 | 2.76 | 2.77 | 2.78 | 2.79 | 2.80 | 2.81 | 2.82 | 2.83 | 2.84 | 2.85 |
| 14 | 2.89 | 2.90 | 2.91 | 2.92 | 2.93 | 2.94 | 2.95 | 2.96 | 2.97 | 2.98 |
| 15 | 3.02 | 3.03 | 3.04 | 3.05 | 3.06 | 3.07 | 3.08 | 3.09 | 3.10 | 3.11 |
| 16 | 3.14 | 3.15 | 3.16 | 3.17 | 3.18 | 3.19 | 3.20 | 3.21 | 3.22 | 3.23 |
| 17 | 3.27 | 3.28 | 3.29 | 3.30 | 3.31 | 3.32 | 3.33 | 3.34 | 3.35 | 3.36 |
| 18 | 3.39 | 3.40 | 3.41 | 3.42 | 3.43 | 3.44 | 3.45 | 3.46 | 3.47 | 3.48 |
| 19 | 3.52 | 3.53 | 3.54 | 3.55 | 3.56 | 3.57 | 3.58 | 3.59 | 3.60 | 3.61 |
| 20 | 3.64 | 3.65 | 3.66 | 3.67 | 3.68 | 3.69 | 3.70 | 3.71 | 3.72 | 3.73 |
| 21 | 3.76 | 3.77 | 3.78 | 3.79 | 3.80 | 3.81 | 3.82 | 3.83 | 3.84 | 3.85 |
| 22 | 3.89 | 3.90 | 3.91 | 3.92 | 3.93 | 3.94 | 3.95 | 3.96 | 3.97 | 3.98 |
| 23 | 4.02 | 4.03 | 4.04 | 4.05 | 4.06 | 4.07 | 4.08 | 4.09 | 4.10 | 4.11 |
| 24 | 4.14 | 4.15 | 4.16 | 4.17 | 4.18 | 4.19 | 4.20 | 4.21 | 4.22 | 4.23 |
| 25 | 4.27 | 4.28 | 4.29 | 4.30 | 4.31 | 4.32 | 4.33 | 4.34 | 4.35 | 4.36 |
| 26 | 4.39 | 4.40 | 4.41 | 4.42 | 4.43 | 4.44 | 4.45 | 4.46 | 4.47 | 4.48 |
| 27 | 4.52 | 4.53 | 4.54 | 4.55 | 4.56 | 4.57 | 4.58 | 4.59 | 4.60 | 4.61 |
| 28 | 4.64 | 4.65 | 4.66 | 4.67 | 4.68 | 4.69 | 4.70 | 4.71 | 4.72 | 4.73 |
| 29 | 4.76 | 4.77 | 4.78 | 4.79 | 4.80 | 4.81 | 4.82 | 4.83 | 4.84 | 4.85 |
| 30 | 4.89 | 4.90 | 4.91 | 4.92 | 4.93 | 4.94 | 4.95 | 4.96 | 4.97 | 4.98 |
| 31 | 5.02 | 5.03 | 5.04 | 5.05 | 5.06 | 5.07 | 5.08 | 5.09 | 5.10 | 5.11 |
| 32 | 5.14 | 5.15 | 5.16 | 5.17 | 5.18 | 5.19 | 5.20 | 5.21 | 5.22 | 5.23 |
| 33 | 5.27 | 5.28 | 5.29 | 5.30 | 5.31 | 5.32 | 5.33 | 5.34 | 5.35 | 5.36 |
| 34 | 5.39 | 5.40 | 5.41 | 5.42 | 5.43 | 5.44 | 5.45 | 5.46 | 5.47 | 5.48 |
| 35 | 5.52 | 5.53 | 5.54 | 5.55 | 5.56 | 5.57 | 5.58 | 5.59 | 5.60 | 5.61 |
| 36 | 5.64 | 5.65 | 5.66 | 5.67 | 5.68 | 5.69 | 5.70 | 5.71 | 5.72 | 5.73 |
| 37 | 5.76 | 5.77 | 5.78 | 5.79 | 5.80 | 5.81 | 5.82 | 5.83 | 5.84 | 5.85 |
| 38 | 5.89 | 5.90 | 5.91 | 5.92 | 5.93 | 5.94 | 5.95 | 5.96 | 5.97 | 5.98 |
| 39 | 6.02 | 6.03 | 6.04 | 6.05 | 6.06 | 6.07 | 6.08 | 6.09 | 6.10 | 6.11 |
| 40 | 6.14 | 6.15 | 6.16 | 6.17 | 6.18 | 6.19 | 6.20 | 6.21 | 6.22 | 6.23 |
| 41 | 6.27 | 6.28 | 6.29 | 6.30 | 6.31 | 6.32 | 6.33 | 6.34 | 6.35 | 6.36 |
| 42 | 6.39 | 6.40 | 6.41 | 6.42 | 6.43 | 6.44 | 6.45 | 6.46 | 6.47 | 6.48 |
| 43 | 6.52 | 6.53 | 6.54 | 6.55 | 6.56 | 6.57 | 6.58 | 6.59 | 6.60 | 6.61 |
| 44 | 6.64 | 6.65 | 6.66 | 6.67 | 6.68 | 6.69 | 6.70 | 6.71 | 6.72 | 6.73 |
| 45 | 6.76 | 6.77 | 6.78 | 6.79 | 6.80 | 6.81 | 6.82 | 6.83 | 6.84 | 6.85 |
| 46 | 6.89 | 6.90 | 6.91 | 6.92 | 6.93 | 6.94 | 6.95 | 6.96 | 6.97 | 6.98 |
| 47 | 7.02 | 7.03 | 7.04 | 7.05 | 7.06 | 7.07 | 7.08 | 7.09 | 7.10 | 7.11 |
| 48 | 7.14 | 7.15 | 7.16 | 7.17 | 7.18 | 7.19 | 7.20 | 7.21 | 7.22 | 7.23 |
| 49 | 7.27 | 7.28 | 7.29 | 7.30 | 7.31 | 7.32 | 7.33 | 7.34 | 7.35 | 7.36 |
| 50 | 7.39 | 7.40 | 7.41 | 7.42 | 7.43 | 7.44 | 7.45 | 7.46 | 7.47 | 7.48 |
| 51 | 7.52 | 7.53 | 7.54 | 7.55 | 7.56 | 7.57 | 7.58 | 7.59 | 7.60 | 7.61 |
| 52 | 7.64 | 7.65 | 7.66 | 7.67 | 7.68 | 7.69 | 7.70 | 7.71 | 7.72 | 7.73 |
| 53 | 7.76 | 7.77 | 7.78 | 7.79 | 7.80 | 7.81 | 7.82 | 7.83 | 7.84 | 7.85 |
| 54 | 7.89 | 7.90 | 7.91 | 7.92 | 7.93 | 7.94 | 7.95 | 7.96 | 7.97 | 7.98 |
| 55 | 8.02 | 8.03 | 8.04 | 8.05 | 8.06 | 8.07 | 8.08 | 8.09 | 8.10 | 8.11 |
| 56 | 8.14 | 8.15 | 8.16 | 8.17 | 8.18 | 8.19 | 8.20 | 8.21 | 8.22 | 8.23 |
| 57 | 8.27 | 8.28 | 8.29 | 8.30 | 8.31 | 8.32 | 8.33 | 8.34 | 8.35 | 8.36 |
| 58 | 8.39 | 8.40 | 8.41 | 8.42 | 8.43 | 8.44 | 8.45 | 8.46 | 8.47 | 8.48 |
| 59 | 8.52 | 8.53 | 8.54 | 8.55 | 8.56 | 8.57 | 8.58 | 8.59 | 8.60 | 8.61 |
| 60 | 8.64 | 8.65 | 8.66 | 8.67 | 8.68 | 8.69 | 8.70 | 8.71 | 8.72 | 8.73 |
| 61 | 8.76 | 8.77 | 8.78 | 8.79 | 8.80 | 8.81 | 8.82 | 8.83 | 8.84 | 8.85 |
| 62 | 8.89 | 8.90 | 8.91 | 8.92 | 8.93 | 8.94 | 8.95 | 8.96 | 8.97 | 8.98 |
| 63 | 9.02 | 9.03 | 9.04 | 9.05 | 9.06 | 9.07 | 9.08 | 9.09 | 9.10 | 9.11 |
| 64 | 9.14 | 9.15 | 9.16 | 9.17 | 9.18 | 9.19 | 9.20 | 9.21 | 9.22 | 9.23 |
| 65 | 9.27 | 9.28 | 9.29 | 9.30 | 9.31 | 9.32 | 9.33 | 9.34 | 9.35 | 9.36 |
| 66 | 9.39 | 9.40 | 9.41 | 9.42 | 9.43 | 9.44 | 9.45 | 9.46 | 9.47 | 9.48 |
| 67 | 9.52 | 9.53 | 9.54 | 9.55 | 9.56 | 9.57 | 9.58 | 9.59 | 9.60 | 9.61 |
| 68 | 9.64 | 9.65 | 9.66 | 9.67 | 9.68 | 9.69 | 9.70 | 9.71 | 9.72 | 9.73 |
| 69 | 9.76 | 9.77 | 9.78 | 9.79 | 9.80 | 9.81 | 9.82 | 9.83 | 9.84 | 9.85 |
| 70 | 9.89 | 9.90 | 9.91 | 9.92 | 9.93 | 9.94 | 9.95 | 9.96 | 9.97 | 9.98 |
| 71 | 10.02 | 10.03 | 10.04 | 10.05 | 10.06 | 10.07 | 10.08 | 10.09 | 10.10 | 10.11 |



Dataset: Untitled

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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

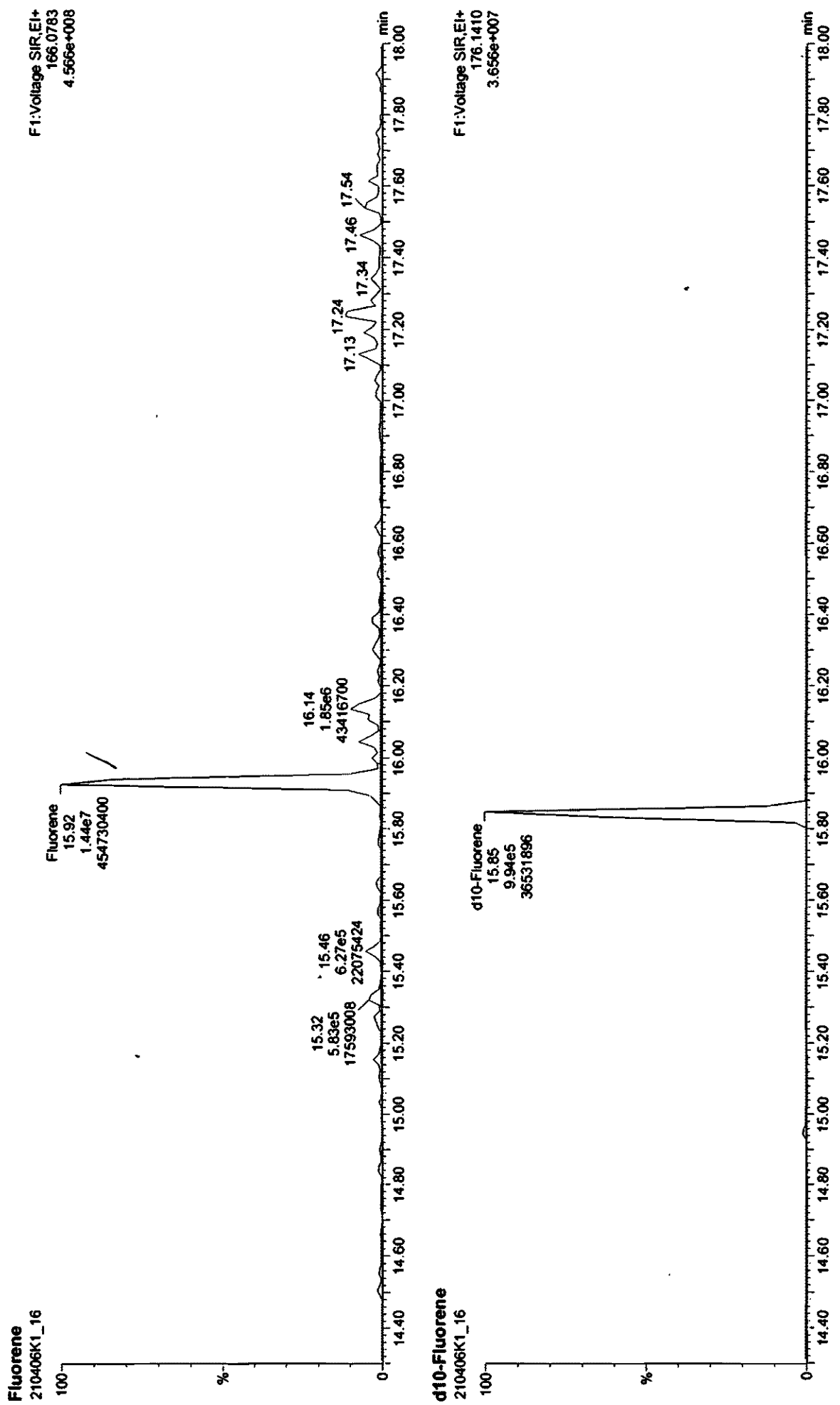
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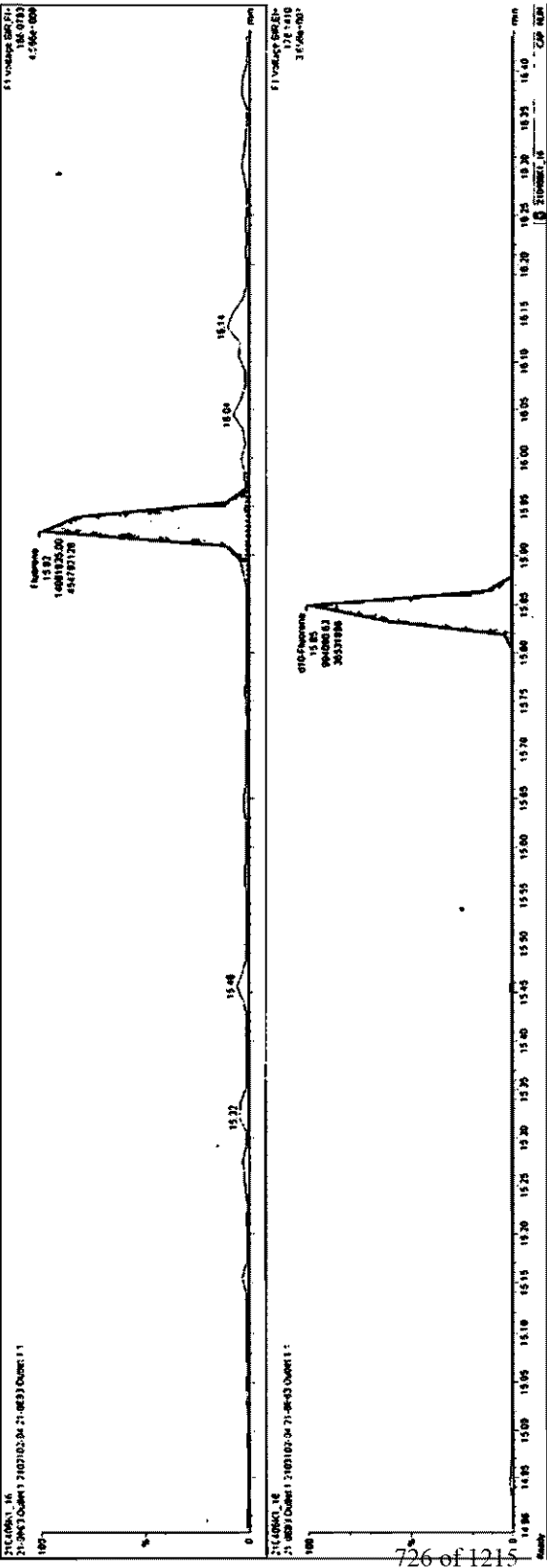
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1



| Peak # | Retention Time (min) | Area | Height | Width | Height (100%) | Area (100%) | Area (%) | Height (%) |
|--------|----------------------|------|--------|-------|---------------|-------------|----------|------------|
| 1 | 15.44 | 1000 | 1.5 | 0.1 | 1.5 | 1000 | 0.5 | 0.5 |
| 2 | 15.32 | 1000 | 1.5 | 0.1 | 1.5 | 1000 | 0.5 | 0.5 |
| 3 | 15.16 | 1000 | 1.5 | 0.1 | 1.5 | 1000 | 0.5 | 0.5 |
| 4 | 15.00 | 1000 | 1.5 | 0.1 | 1.5 | 1000 | 0.5 | 0.5 |
| 5 | 14.86 | 1000 | 1.5 | 0.1 | 1.5 | 1000 | 0.5 | 0.5 |



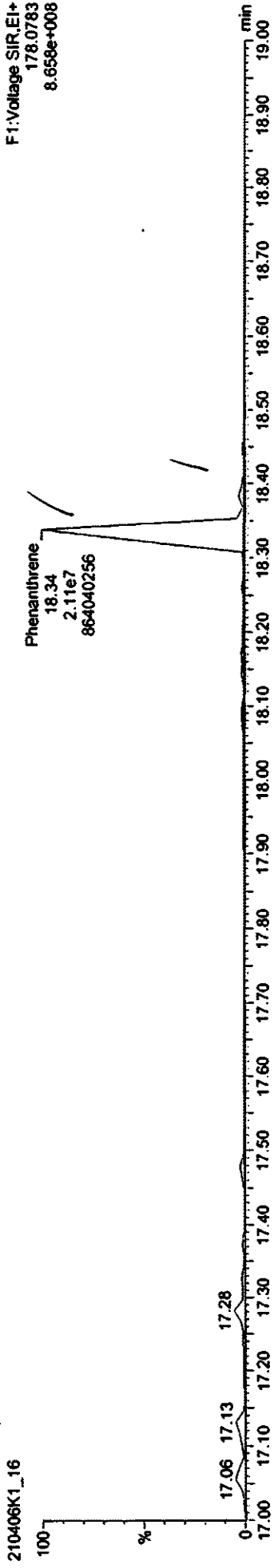
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

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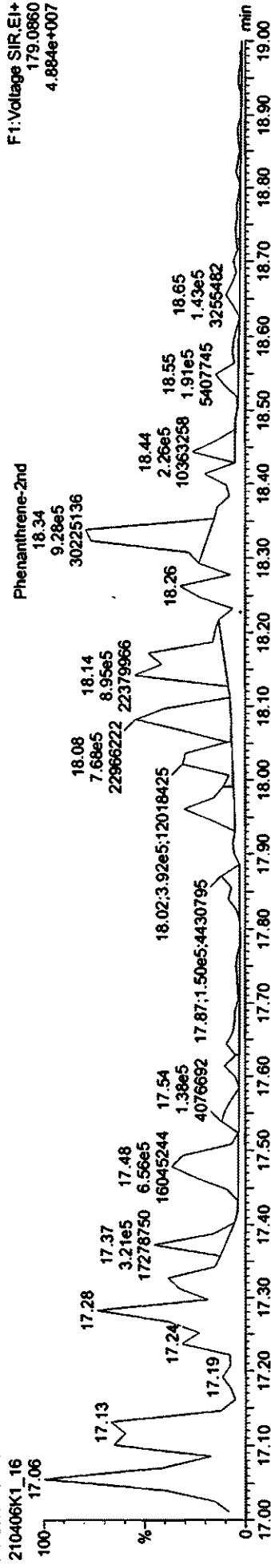
Phenanthrene; Anthracene

F1:Voltage SIR,EI+
178.0783
8.658e+008



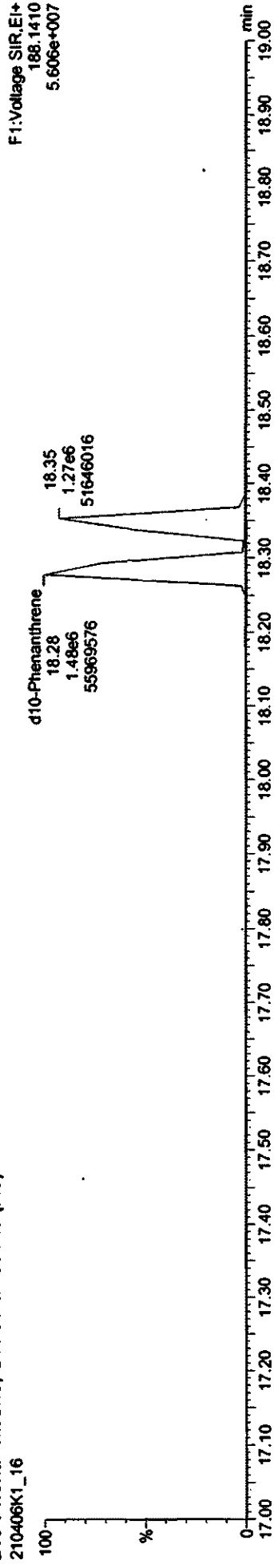
Phenanthrene-2nd

F1:Voltage SIR,EI+
179.0860
4.884e+007

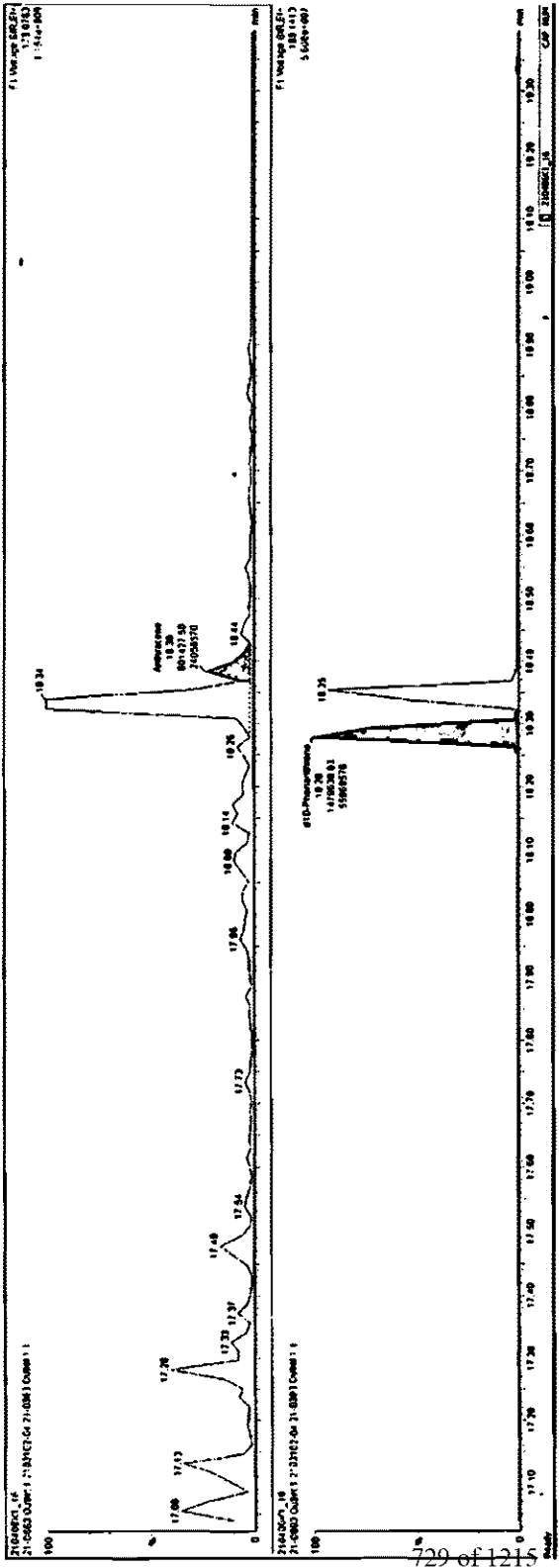


d10-Phenanthrene; d10-Anthracene (AS)

F1:Voltage SIR,EI+
188.1410
5.606e+007



| Retention Time (min) | Area | Height | Width | Resolution | Signal-to-Noise | Peak ID |
|----------------------|------|--------|-------|------------|-----------------|---------|
| 17.00 | 1113 | 1113 | 1113 | 1113 | 1113 | 1 |
| 17.26 | 1726 | 1726 | 1726 | 1726 | 1726 | 2 |
| 17.37 | 1737 | 1737 | 1737 | 1737 | 1737 | 3 |
| 17.46 | 1746 | 1746 | 1746 | 1746 | 1746 | 4 |
| 17.54 | 1754 | 1754 | 1754 | 1754 | 1754 | 5 |
| 17.86 | 1786 | 1786 | 1786 | 1786 | 1786 | 6 |
| 18.00 | 1800 | 1800 | 1800 | 1800 | 1800 | 7 |
| 18.14 | 1814 | 1814 | 1814 | 1814 | 1814 | 8 |
| 18.26 | 1826 | 1826 | 1826 | 1826 | 1826 | 9 |
| 18.34 | 1834 | 1834 | 1834 | 1834 | 1834 | 10 |
| 18.75 | 1875 | 1875 | 1875 | 1875 | 1875 | 11 |
| 19.34 | 1934 | 1934 | 1934 | 1934 | 1934 | 12 |



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Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
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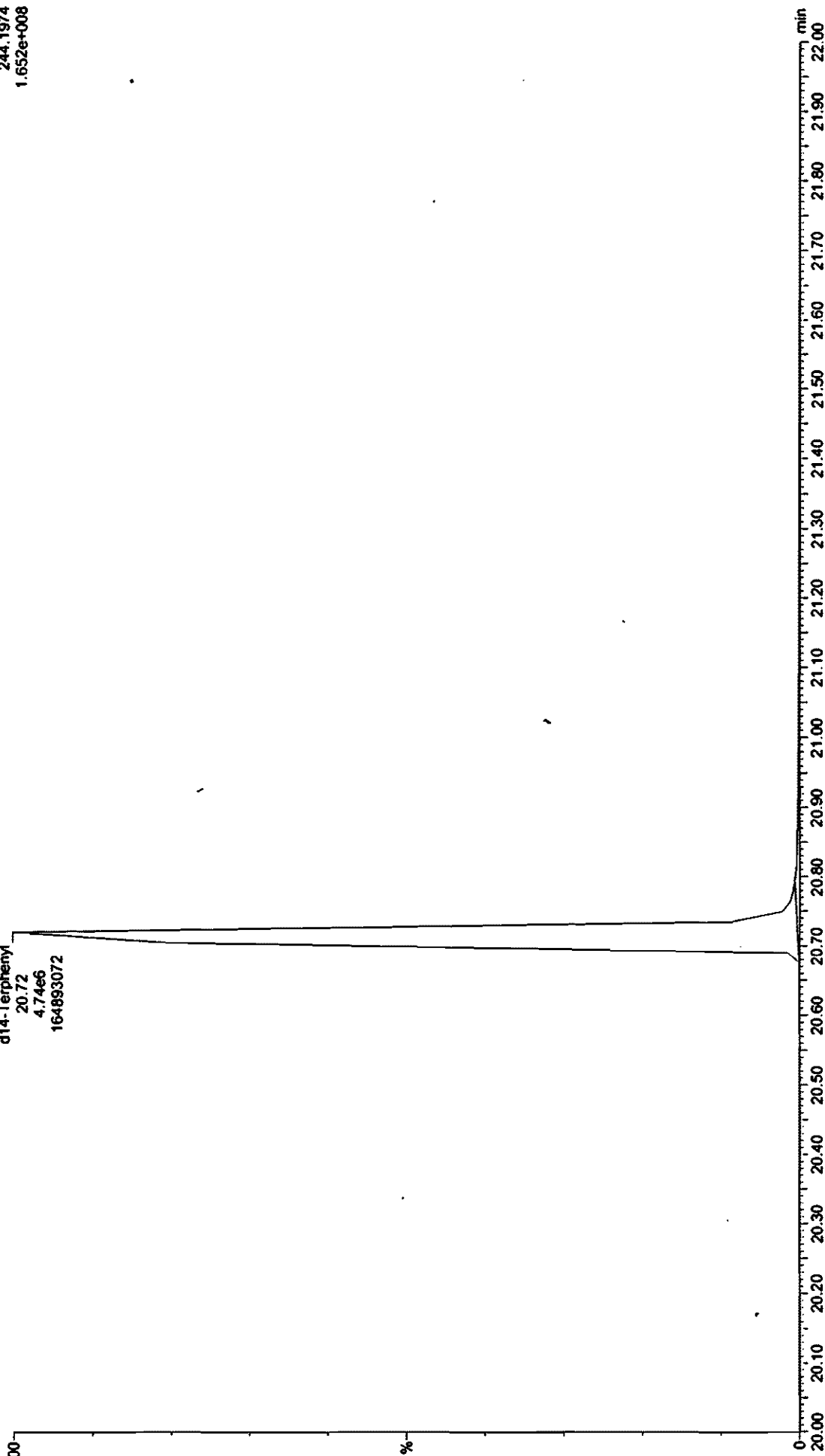
Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

d14-Terphenyl (PS)

210406K1_16

d14-Terphenyl
20.72
4.74e6
164893072

F2:Voltage SIR,EI+
244,1974
1.652e+008



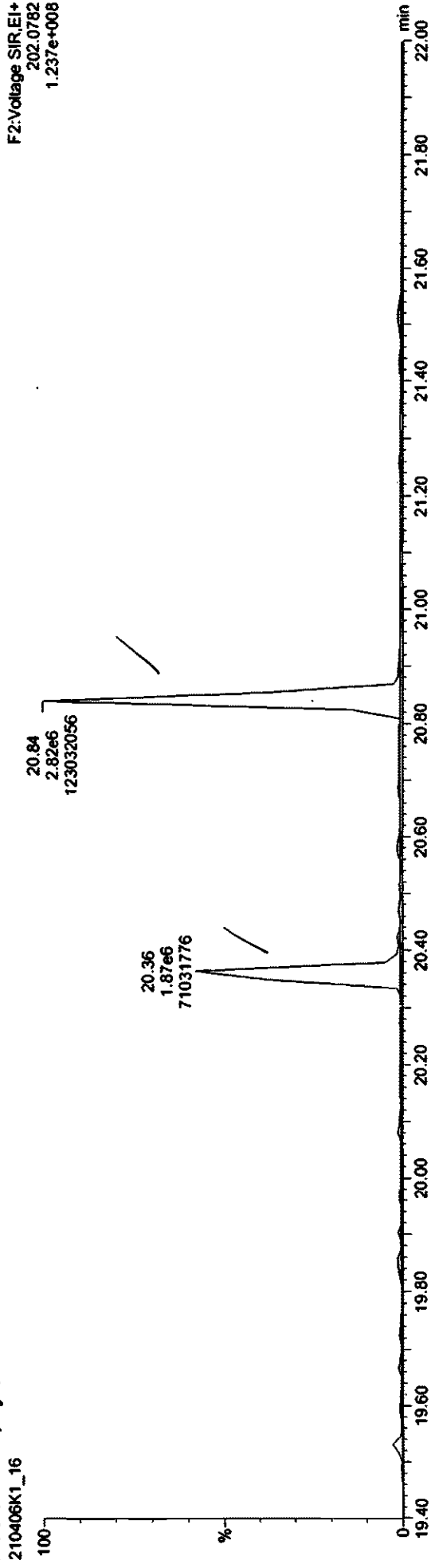
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

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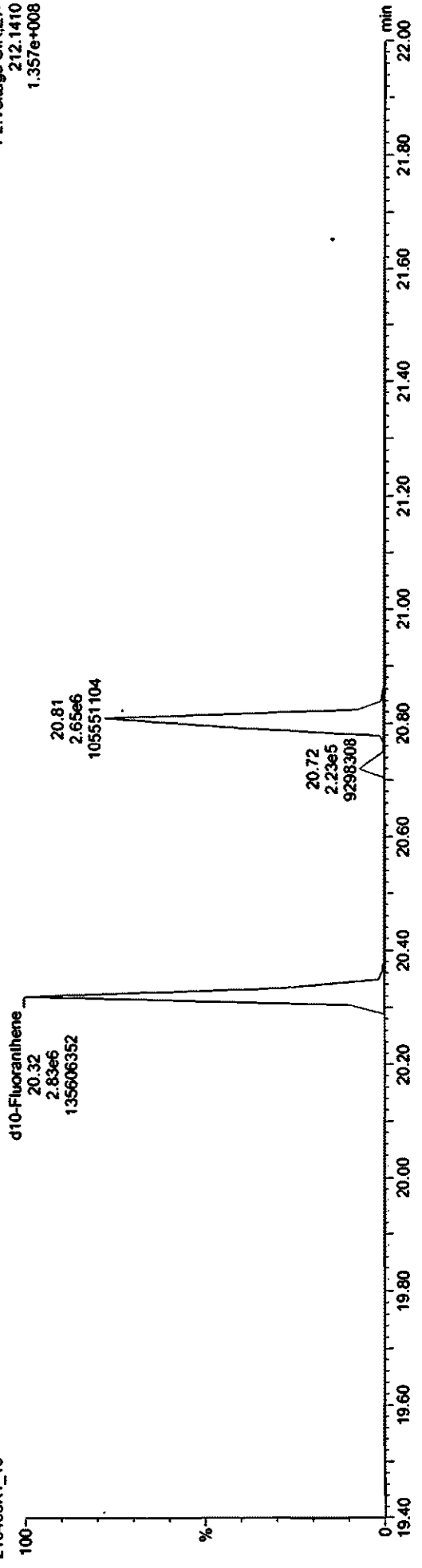
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
1.237e+008

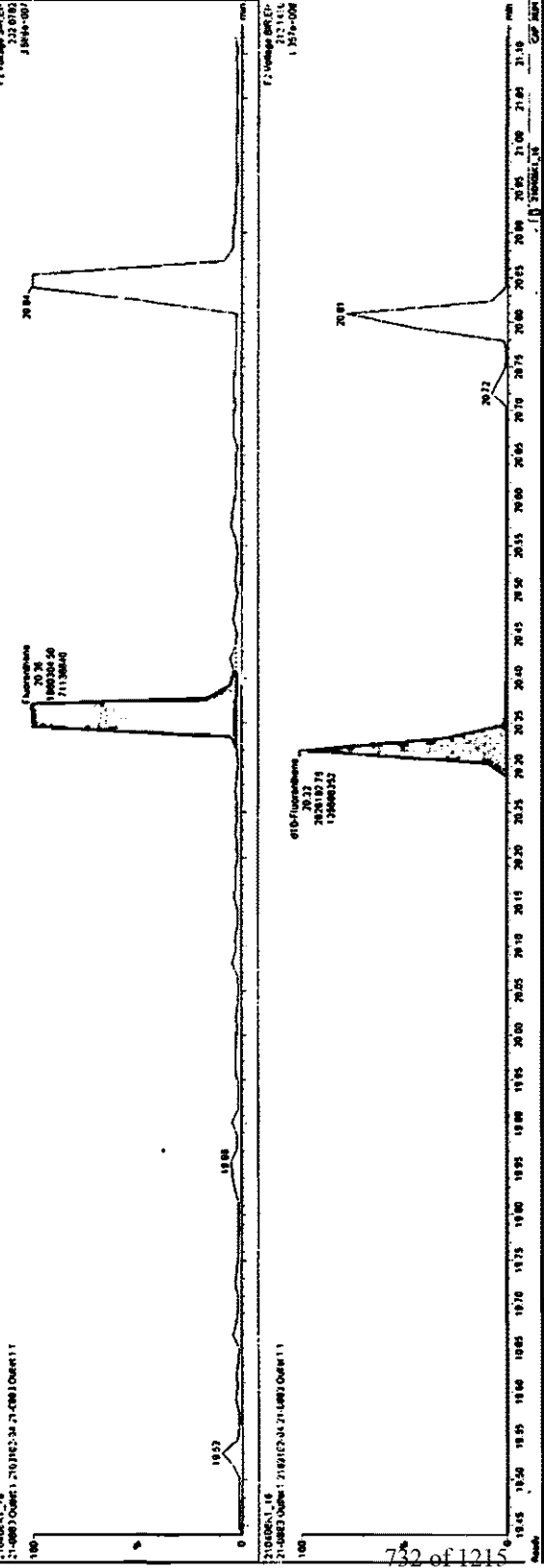


d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
1.357e+008



| RT | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|-------|-----------|----------|--------|--------|---------|--------|------|--------|-------|-------|---------|--------|
| 18.52 | 5256 | 14448 | 1.2287 | 1.0000 | 100.00 | 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 20.32 | 130000343 | 130000 | 0.1775 | 100.00 | 100.00 | 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 20.34 | 28201874 | 28201874 | 0.1775 | 100.00 | 100.00 | 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 20.36 | 113000343 | 113000 | 0.1775 | 100.00 | 100.00 | 100.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |



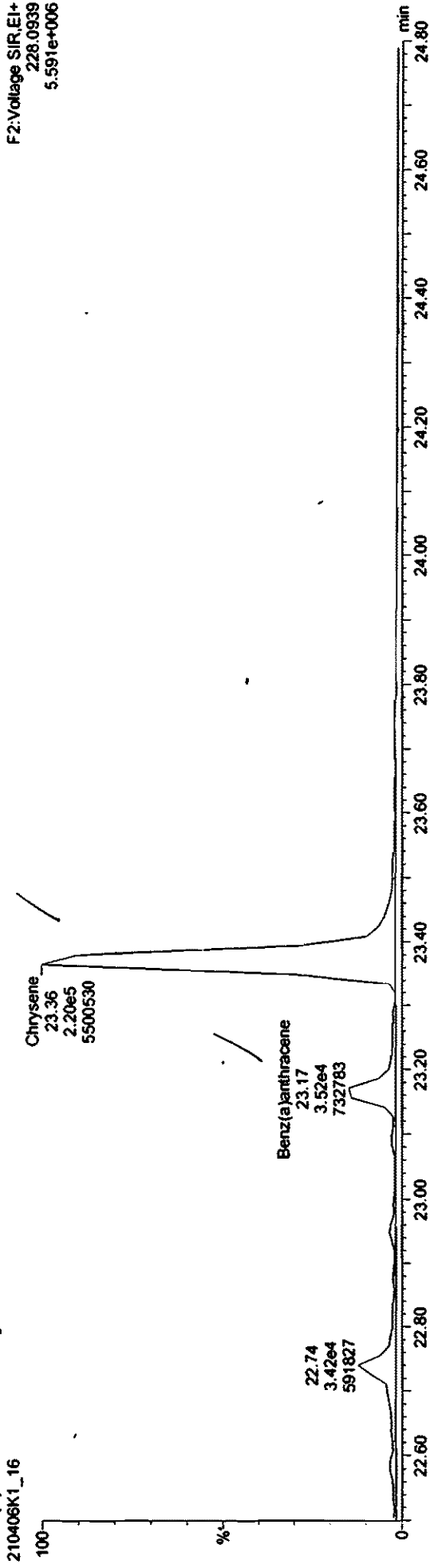
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Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

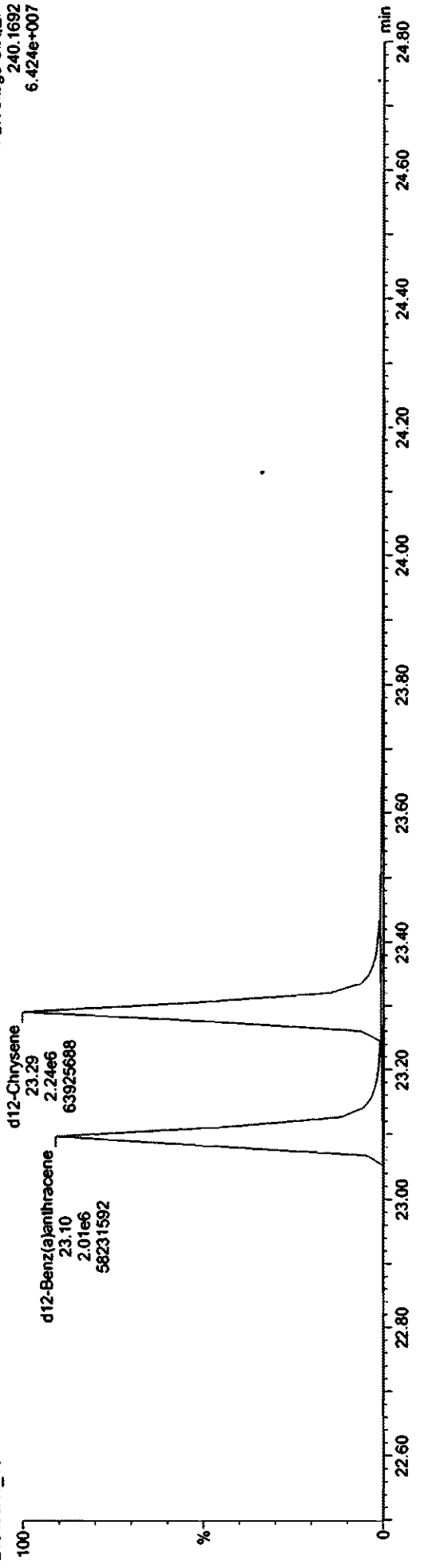
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
5.591e+006

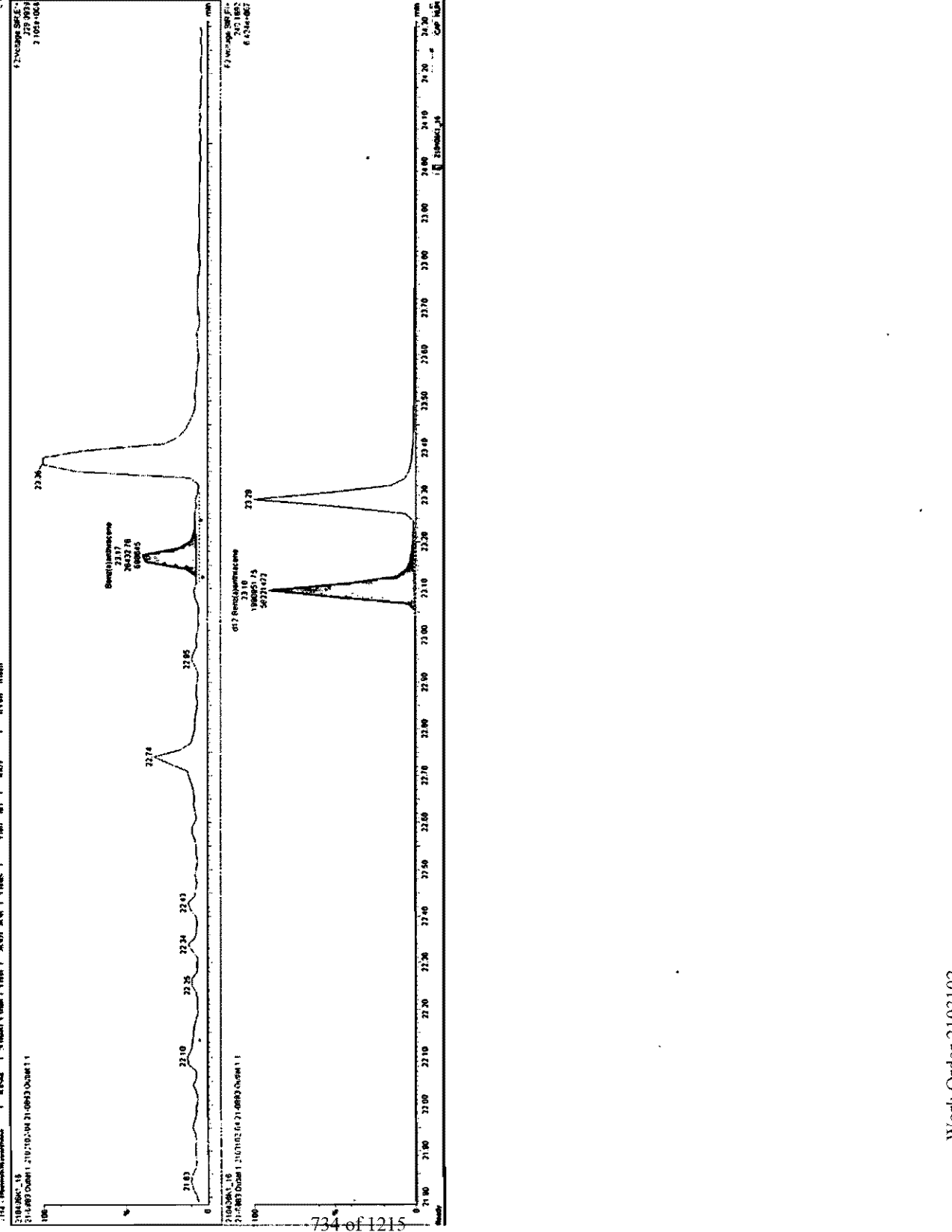


Benz(a)Anthracene-Chrysene-Iso

F2:Voltage SIR,EI+
240.1692
6.424e+007



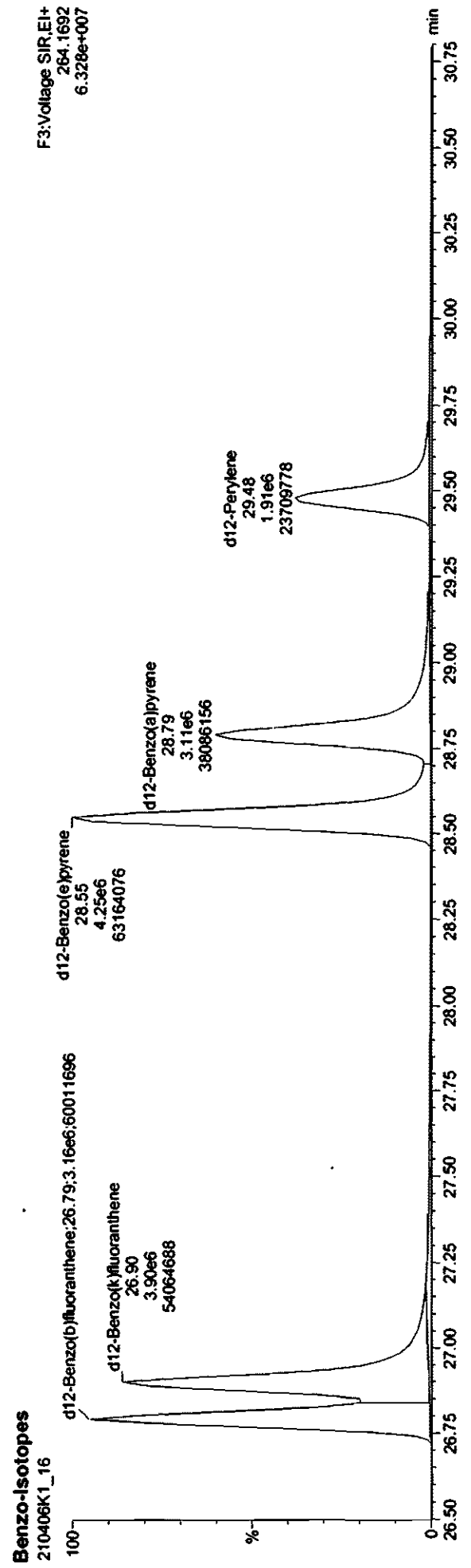
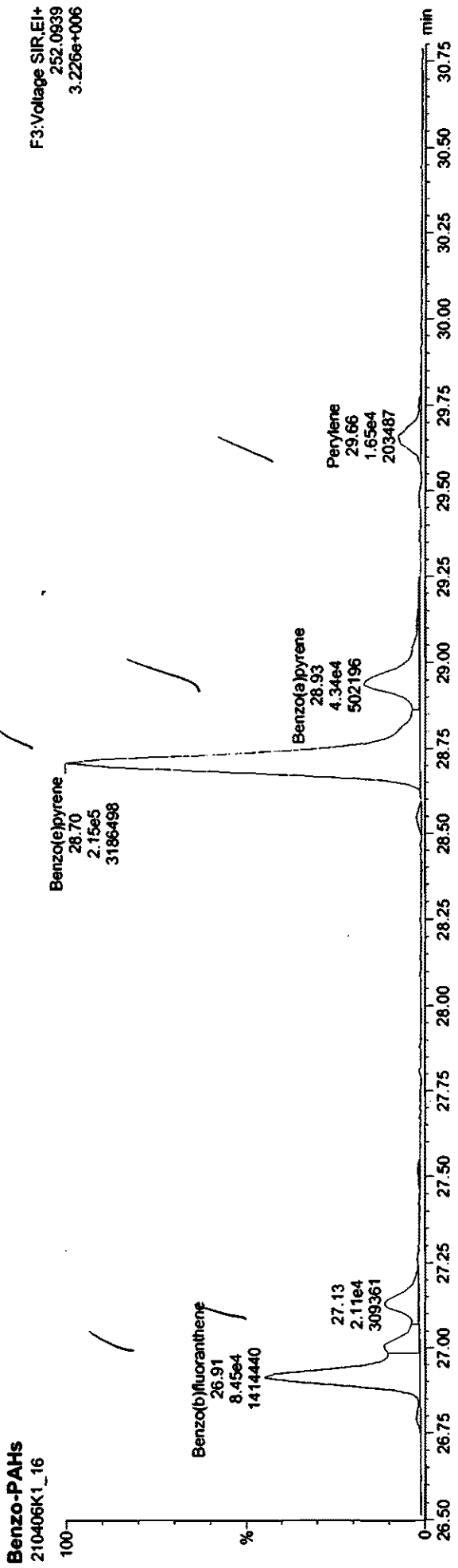
| Name | Mass | RT | Area | Height | FWHM | Signal | SN | Peak | Area | Height | FWHM | Signal | SN |
|------|-------|-------|-------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|
| 1 | 21.83 | 21.83 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2 | 22.35 | 22.35 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 3 | 22.40 | 22.40 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 4 | 22.74 | 22.74 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 5 | 22.85 | 22.85 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 6 | 23.20 | 23.20 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 7 | 23.26 | 23.26 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 8 | 23.30 | 23.30 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 9 | 23.36 | 23.36 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 10 | 23.40 | 23.40 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 11 | 23.44 | 23.44 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 12 | 23.50 | 23.50 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 13 | 23.56 | 23.56 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 14 | 23.60 | 23.60 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |



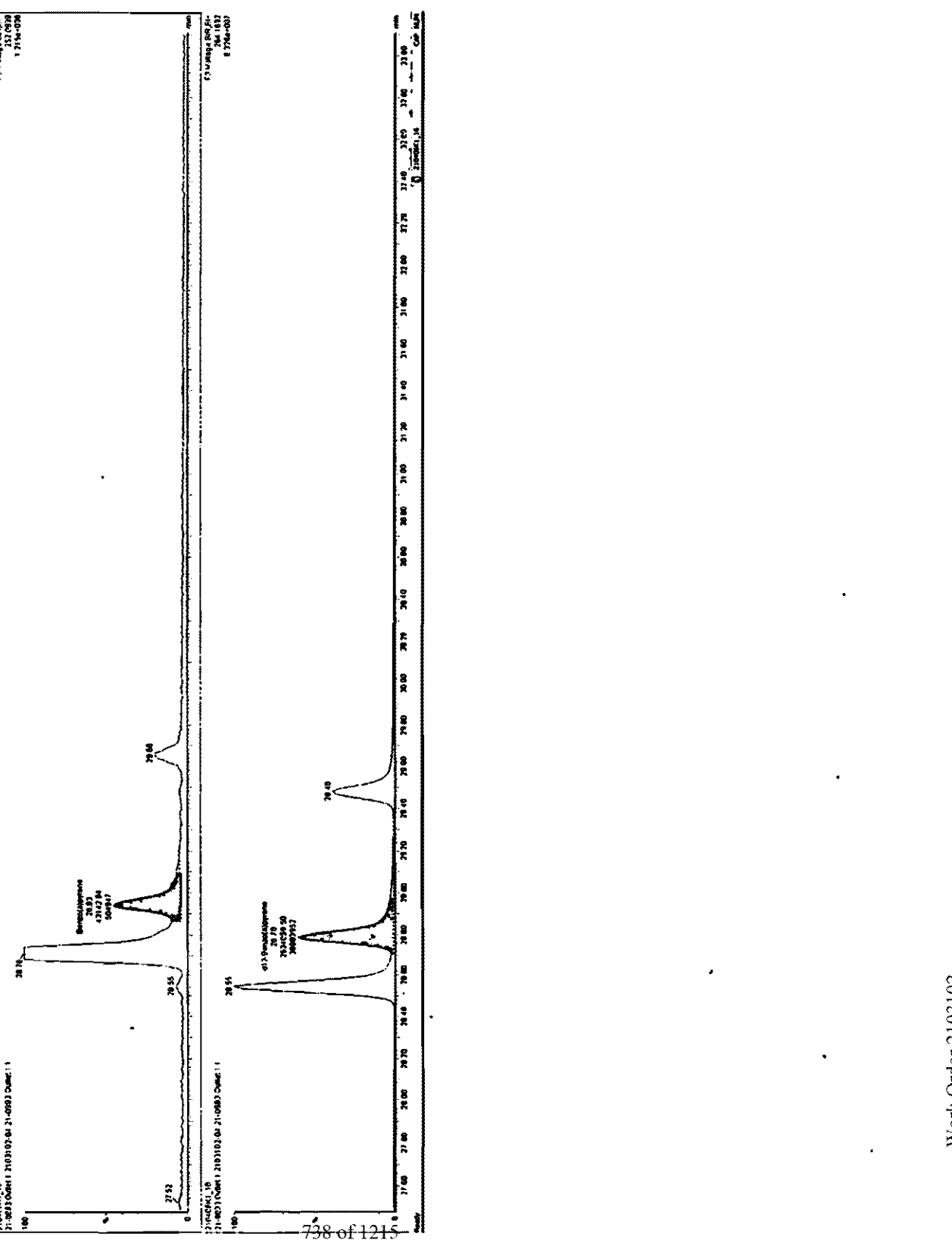
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Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1, Description: 21-0883 Outlet 1



| Retention Time (min) | Peak Label | Area | Height | Width | Integration | Concentration (%) |
|----------------------|----------------------|----------|----------|-------|-------------|-------------------|
| 21.93 | 15 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 28.55 | 16 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 28.78 | 17 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 28.97 | 18 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 29.16 | 19 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 29.35 | 20 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 29.54 | 21 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 29.73 | 22 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 29.92 | 23 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 30.11 | 24 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 30.30 | 25 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 30.49 | 26 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 30.68 | 27 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 30.87 | 28 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 31.06 | 29 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 31.25 | 30 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 31.44 | 31 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 31.63 | 32 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 31.82 | 33 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 32.01 | 34 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 32.20 | 35 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 32.39 | 36 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 32.58 | 37 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 32.77 | 38 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 32.96 | 39 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 33.15 | 40 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 33.34 | 41 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 33.53 | 42 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 33.72 | 43 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 33.91 | 44 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 34.10 | 45 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 34.29 | 46 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 34.48 | 47 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 34.67 | 48 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 34.86 | 49 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 35.05 | 50 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 35.24 | 51 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 35.43 | 52 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 35.62 | 53 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 35.81 | 54 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 36.00 | 55 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 36.19 | 56 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 36.38 | 57 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 36.57 | 58 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 36.76 | 59 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 36.95 | 60 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 37.14 | 61 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 37.33 | 62 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 37.52 | 63 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 37.71 | 64 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 37.90 | 65 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 38.09 | 66 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 38.28 | 67 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 38.47 | 68 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 38.66 | 69 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 38.85 | 70 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 39.04 | 71 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 39.23 | 72 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 39.42 | 73 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 39.61 | 74 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 39.80 | 75 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 39.99 | 76 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 40.18 | 77 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 40.37 | 78 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 40.56 | 79 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 40.75 | 80 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 40.94 | 81 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 41.13 | 82 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 41.32 | 83 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 41.51 | 84 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 41.70 | 85 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 41.89 | 86 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 42.08 | 87 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 42.27 | 88 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 42.46 | 89 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 42.65 | 90 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 42.84 | 91 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 43.03 | 92 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 43.22 | 93 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 43.41 | 94 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 43.60 | 95 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 43.79 | 96 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 43.98 | 97 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 44.17 | 98 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 44.36 | 99 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |
| 44.55 | 100 Benzoin Chloride | 1.00E+05 | 1.00E+05 | 27.21 | 1.00E+05 | 1.00 |



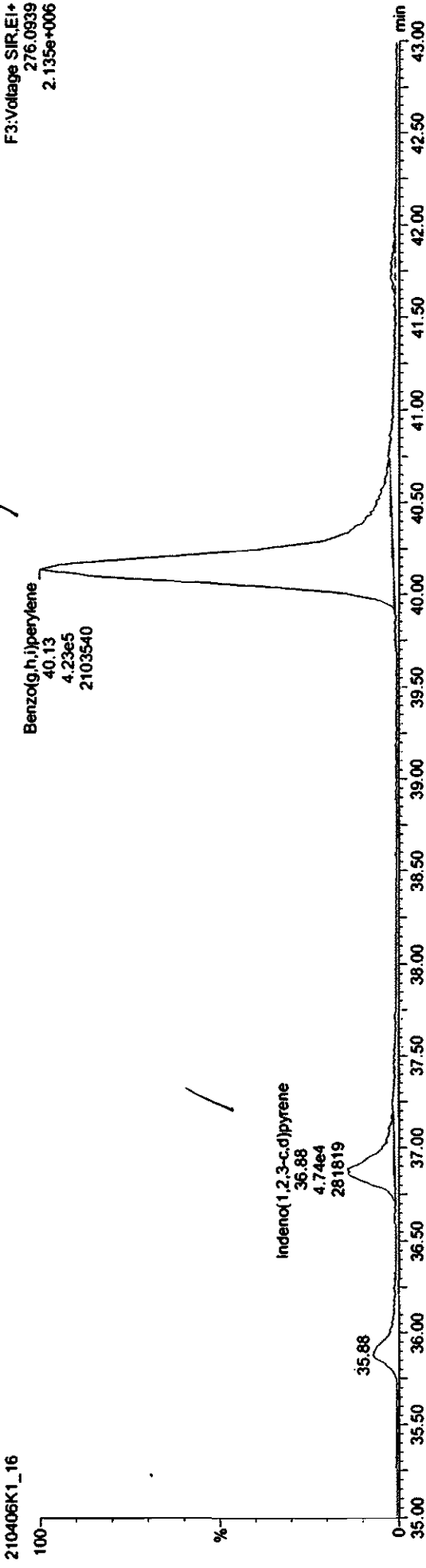
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

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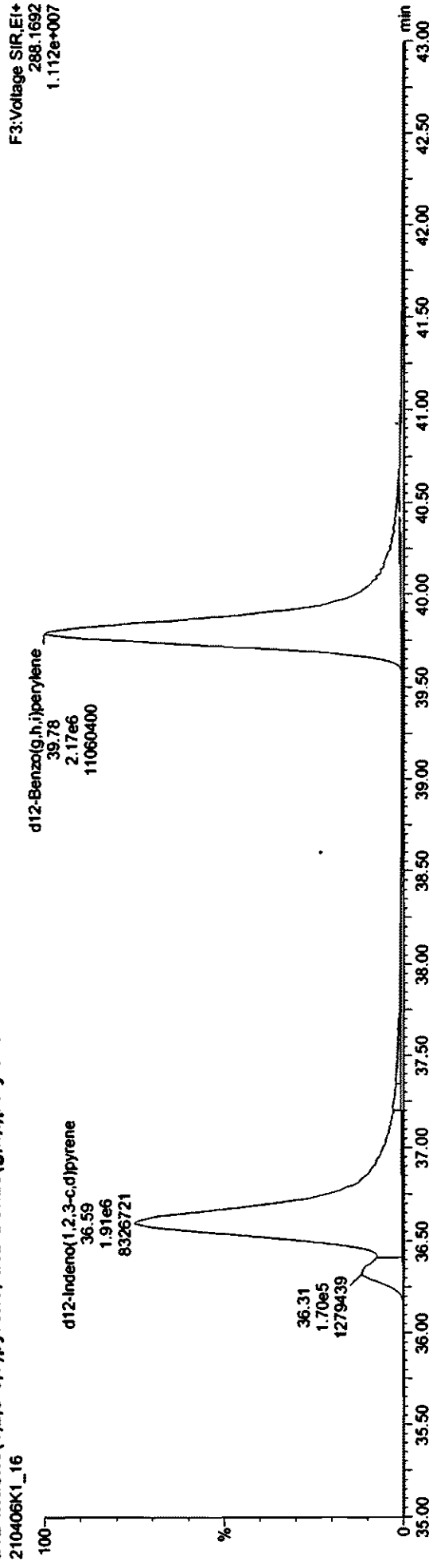
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR, EI+
276.0939
2.135e+006

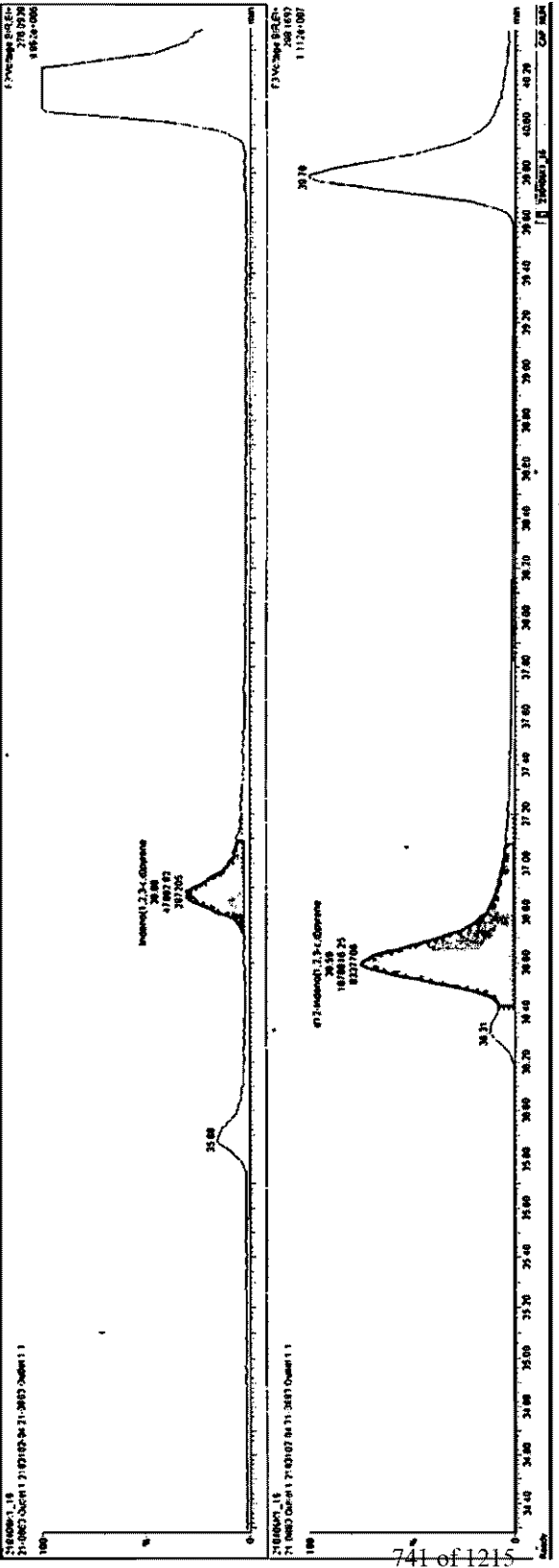


d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

F3:Voltage SIR, EI+
288.1692
1.112e+007



| Peak | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Area% | Height% |
|------|----------------------|--------|--------|-------|--------------|-------------|-------|---------|
| 16 | 2.144 | 17548 | 15112 | 1.008 | 15.000 | 1170.000 | 0.125 | 0.000 |
| 17 | 2.294 | 27068 | 15129 | 1.008 | 15.000 | 1747.500 | 0.222 | 0.000 |
| 18 | 2.504 | 82068 | 15129 | 1.008 | 15.000 | 5471.000 | 0.252 | 0.000 |
| 19 | 2.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 20 | 2.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 21 | 3.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 22 | 3.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 23 | 3.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 24 | 3.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 25 | 3.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 26 | 4.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 27 | 4.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 28 | 4.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 29 | 4.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 30 | 4.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 31 | 5.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 32 | 5.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 33 | 5.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 34 | 5.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 35 | 5.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 36 | 6.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 37 | 6.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 38 | 6.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 39 | 6.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 40 | 6.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 41 | 7.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 42 | 7.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 43 | 7.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 44 | 7.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 45 | 7.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 46 | 8.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 47 | 8.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 48 | 8.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 49 | 8.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 50 | 8.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 51 | 9.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 52 | 9.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 53 | 9.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 54 | 9.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 55 | 9.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 56 | 10.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 57 | 10.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 58 | 10.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 59 | 10.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 60 | 10.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 61 | 11.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 62 | 11.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 63 | 11.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 64 | 11.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 65 | 11.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 66 | 12.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 67 | 12.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 68 | 12.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 69 | 12.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 70 | 12.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 71 | 13.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 72 | 13.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 73 | 13.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 74 | 13.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 75 | 13.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 76 | 14.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 77 | 14.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 78 | 14.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 79 | 14.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 80 | 14.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 81 | 15.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 82 | 15.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 83 | 15.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 84 | 15.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 85 | 15.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 86 | 16.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 87 | 16.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 88 | 16.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 89 | 16.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 90 | 16.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 91 | 17.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 92 | 17.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 93 | 17.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 94 | 17.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 95 | 17.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 96 | 18.094 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 97 | 18.294 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 98 | 18.494 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 99 | 18.694 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |
| 100 | 18.894 | 187468 | 15129 | 1.008 | 15.000 | 12464.000 | 0.252 | 0.000 |



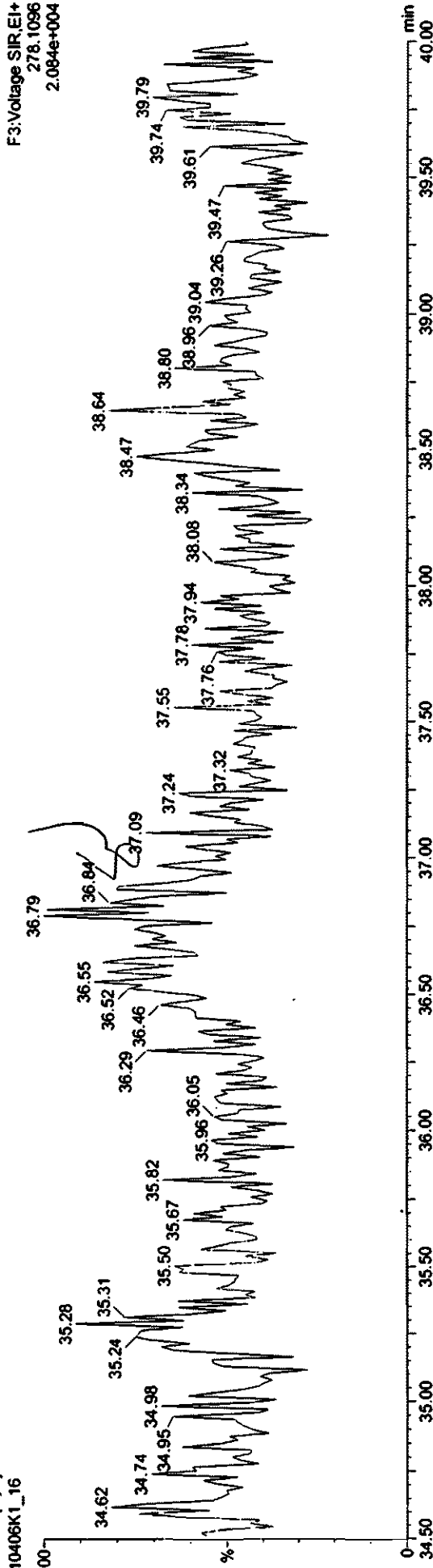
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

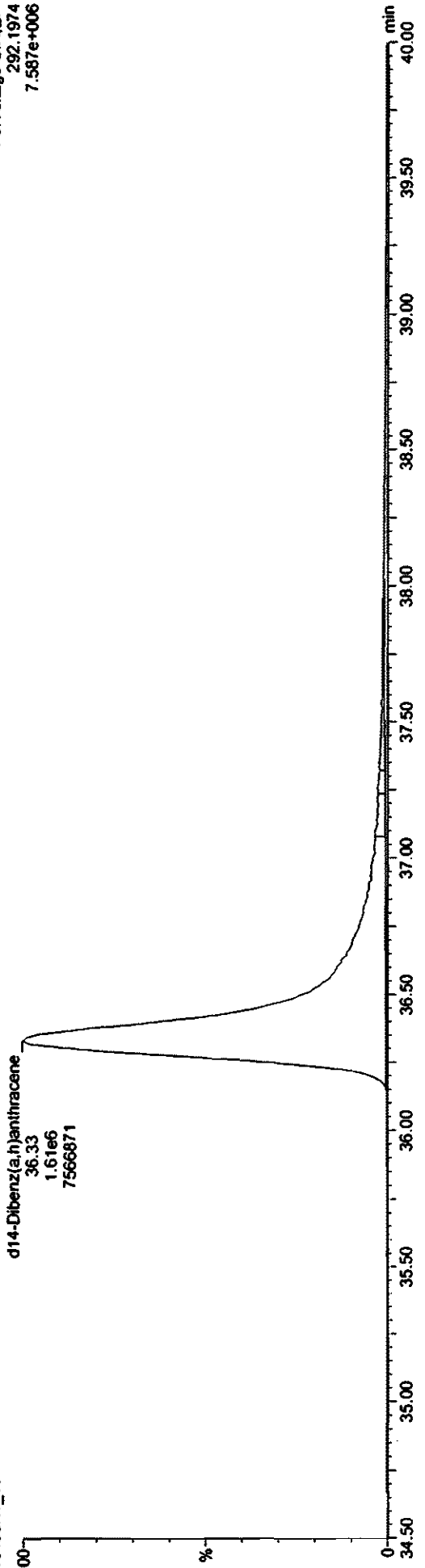
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_16, Date: 06-Apr-2021, Time: 22:57:16, ID: 2103102-04 21-0883 Outlet 1, Description: 21-0883 Outlet 1

Dibenz(a,h)anthracene
210406K1_16



d14-Dibenz(a,h)anthracene
210406K1_16



Quantify Sample Summary Report
Vista Analytical Laboratory

Masslynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-9.qld

Last Altered: Wednesday, April 07, 2021 12:13:29 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:14:47 PM Pacific Daylight Time

Dr. A. J. W. M. 04/08/2021

Method: U:\VG11.PRO\Method\IPAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1, Description: 21-0883 Outlet 1

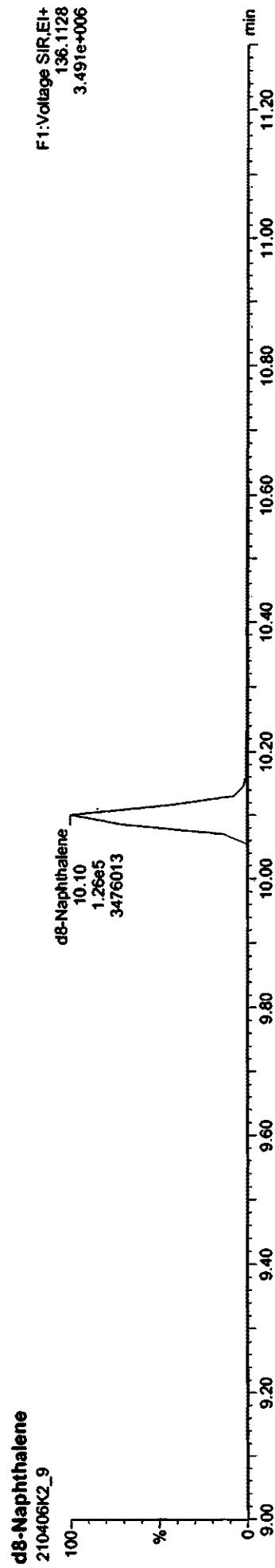
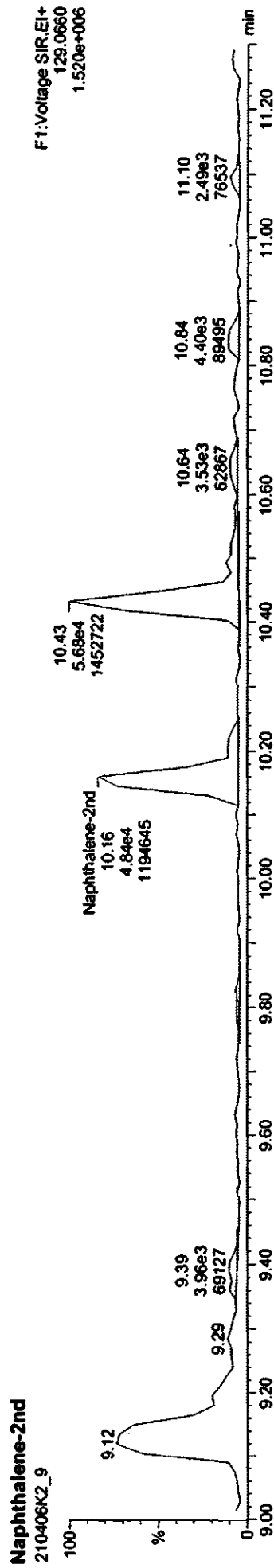
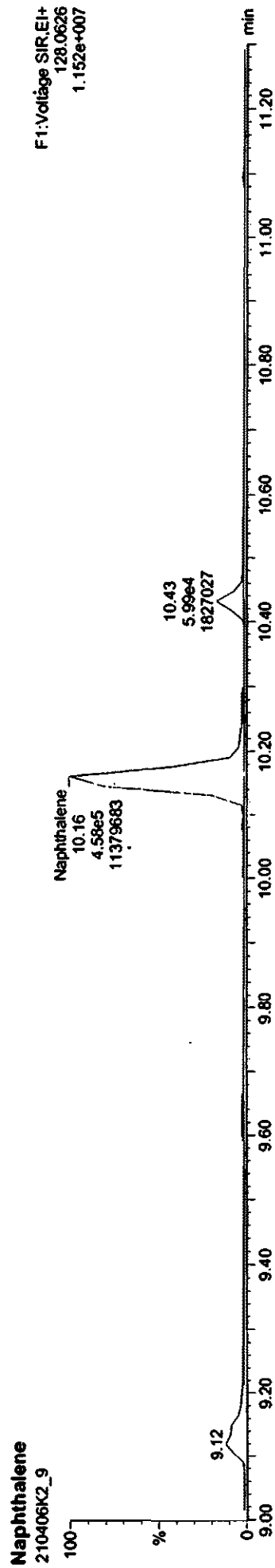
| L. # | Name | Resp | IS Resp | RRF | wVol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|------|---------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|-------|
| 1 | 3 | 3.91e5 | 7.46e4 | 1.38 | 1.000 | 11.60 | 11.61 | 0.794 | 0.795 | NO | 761 | | 5.81 |
| 2 | 2-Methylnaphthalene | 4.43e5 | 7.46e4 | 1.10 | 1.000 | 14.68 | 14.69 | 1.006 | 1.006 | NO | 1080 | | 31.1 |
| 3 | 5 Acenaphthene | 1.02e6 | 6.15e4 | 1.15 | 1.000 | 15.92 | 15.92 | 1.006 | 1.006 | NO | 2860 | | 63.3 |
| 4 | 6 Fluorene | 1.79e6 | 1.05e5 | 1.19 | 1.000 | 18.32 | 18.32 | 1.002 | 1.002 | NO | 2860 | | 17.5 |
| 5 | 7 Phenanthrene | 7.46e4 | 1.52e5 | 0.594 | 1.000 | 14.60 | 14.60 | 1.226 | 1.225 | NO | 165 | 82.7 | 0.774 |
| 6 | 24 d10-Acenaphthene | 6.15e4 | 1.52e5 | 0.563 | 1.000 | 15.84 | 15.83 | 1.330 | 1.329 | NO | 144 | 71.9 | 0.843 |
| 7 | 25 d10-Fluorene | 1.05e5 | 1.52e5 | 0.735 | 1.000 | 18.26 | 18.28 | 1.533 | 1.535 | NO | 188 | 94.2 | 0.654 |
| 8 | 26 d10-Phenanthrene | 1.52e5 | 1.52e5 | 1.00 | 1.000 | 20.81 | 20.79 | 1.000 | 1.000 | NO | 200 | 100 | 0.239 |

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-9.qld

Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11.

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1, Description: 21-0883 Outlet 1

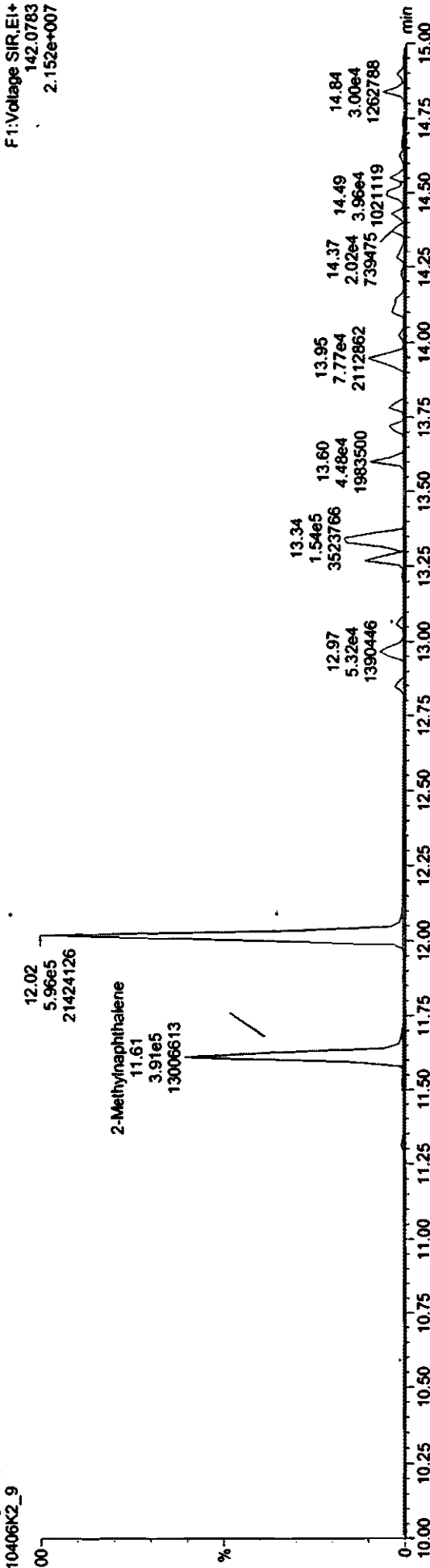


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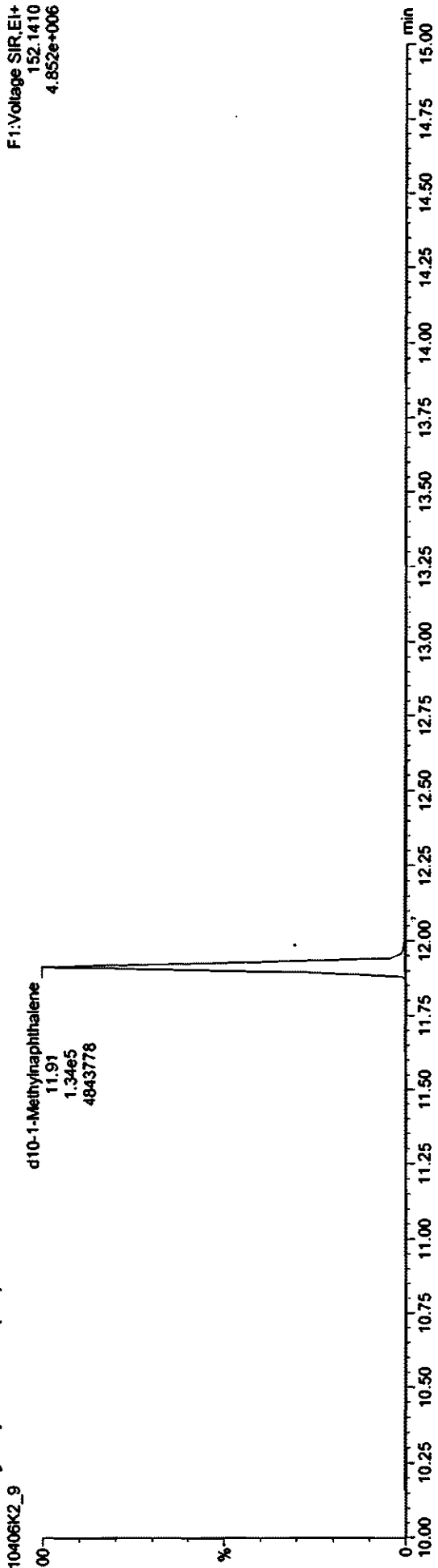
Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

2-Methylnaphthalene



d10-1-Methylnaphthalene (RS)

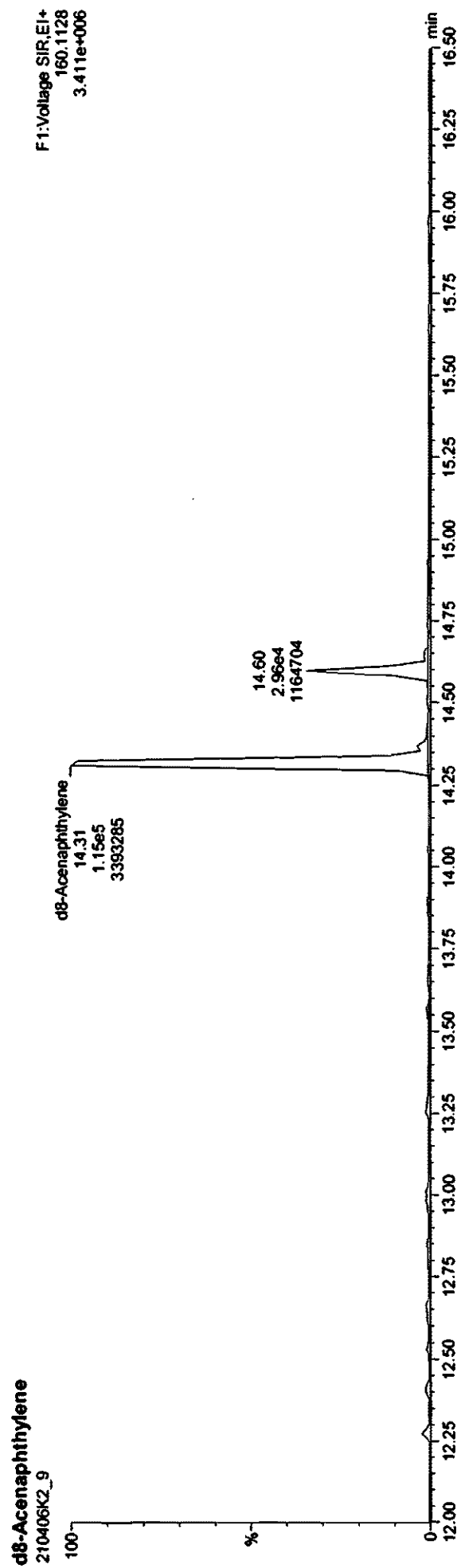
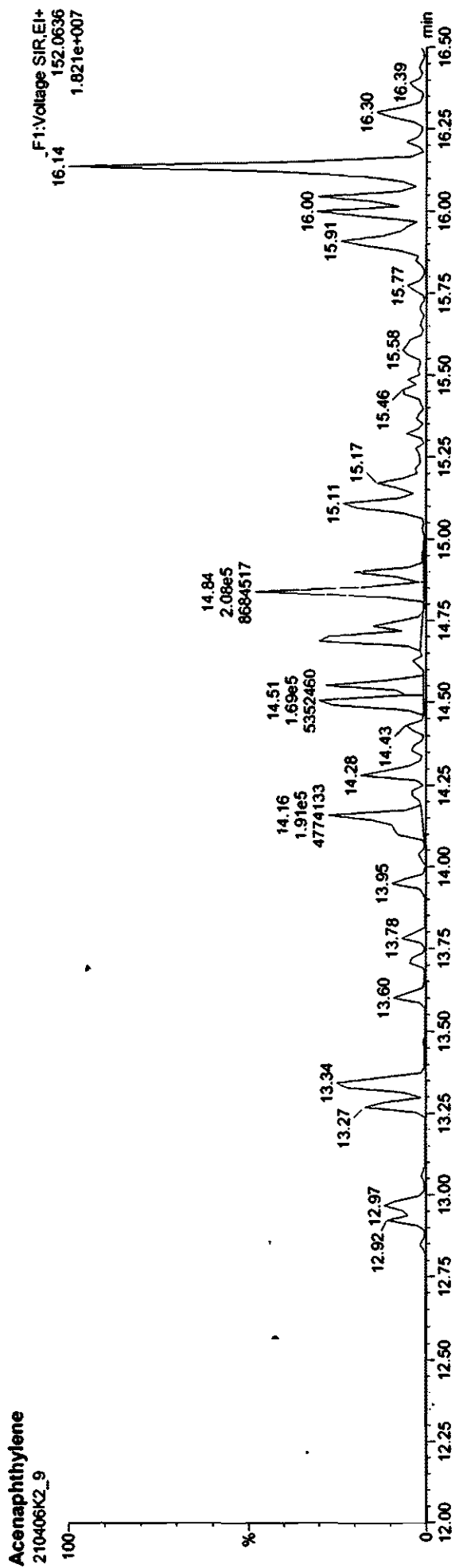


Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-9.qld

Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1, Description: 21-0883 Outlet 1

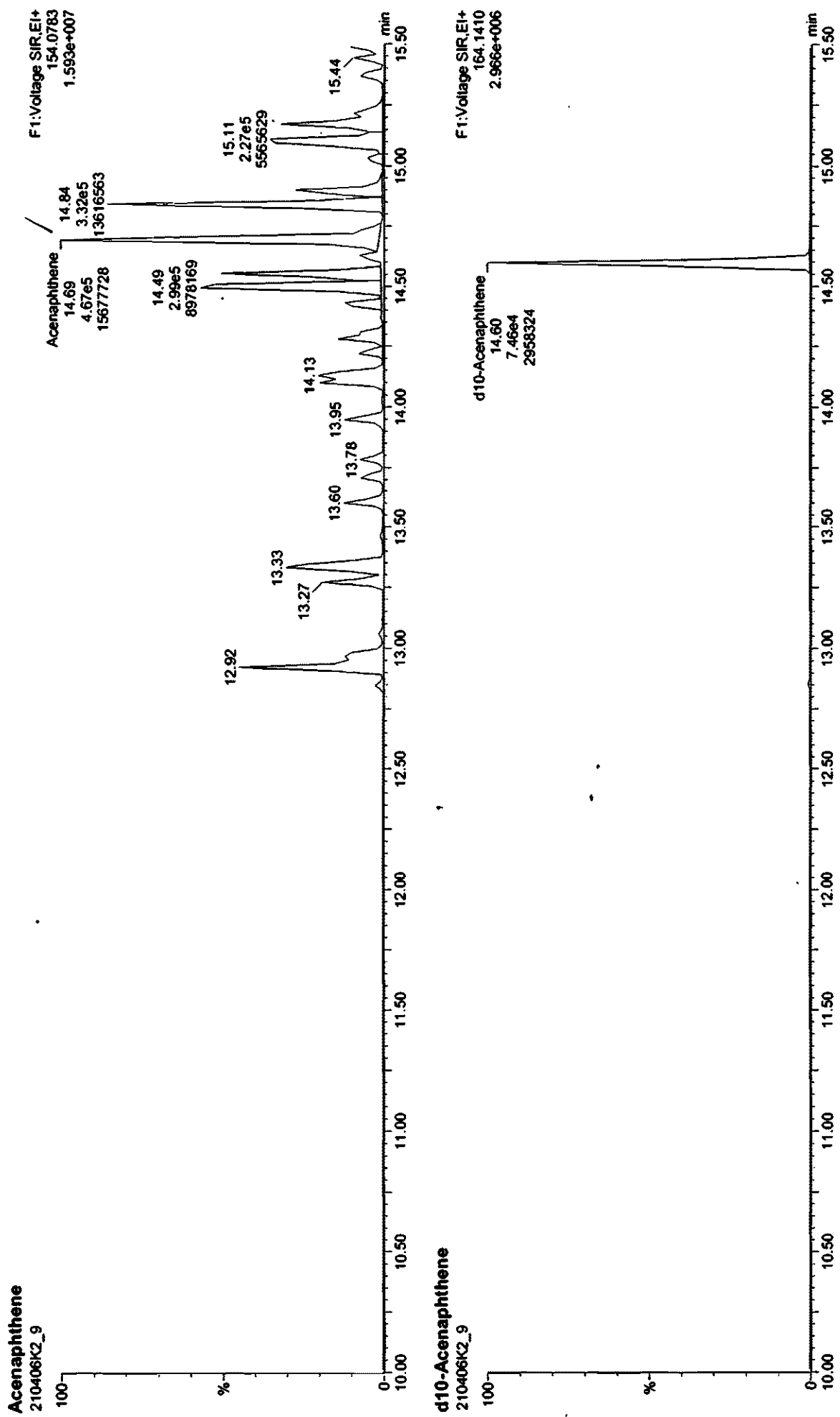


Quantify Sample Report
Vista Analytical Laboratory

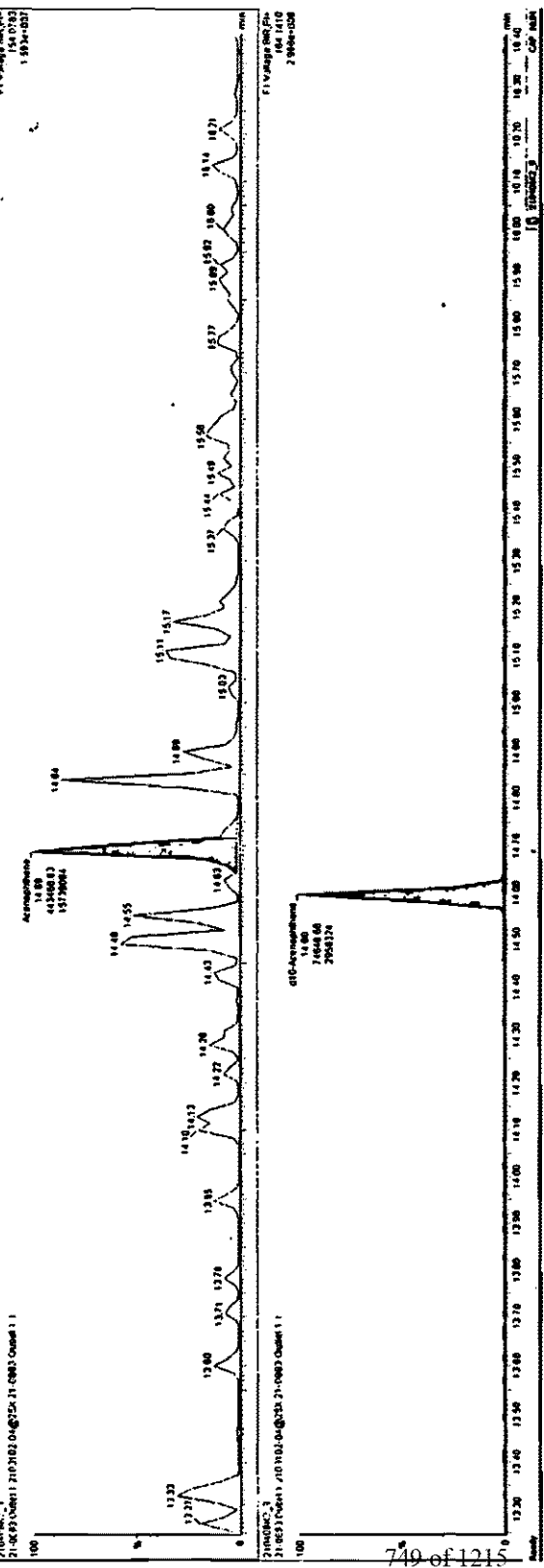
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Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883_Outlet 1 1, Description: 21-0883 Outlet 1



| RT | Area | Height | Width | Peak Area | Peak Height | Peak Width | Area % | Height % |
|-------|-------|--------|-------|-----------|-------------|------------|--------|----------|
| 13.90 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 13.95 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.00 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.05 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.10 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.15 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.20 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.25 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.30 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.35 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.40 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.45 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.50 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.55 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.60 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.65 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.70 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.75 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.80 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.85 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.90 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 14.95 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.00 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.05 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.10 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.15 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.20 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.25 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.30 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.35 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.40 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.45 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.50 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.55 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.60 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.65 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.70 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.75 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.80 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.85 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.90 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 15.95 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |
| 16.00 | 10000 | 100 | 0.50 | 10000 | 100 | 0.50 | 1.00 | 1.00 |

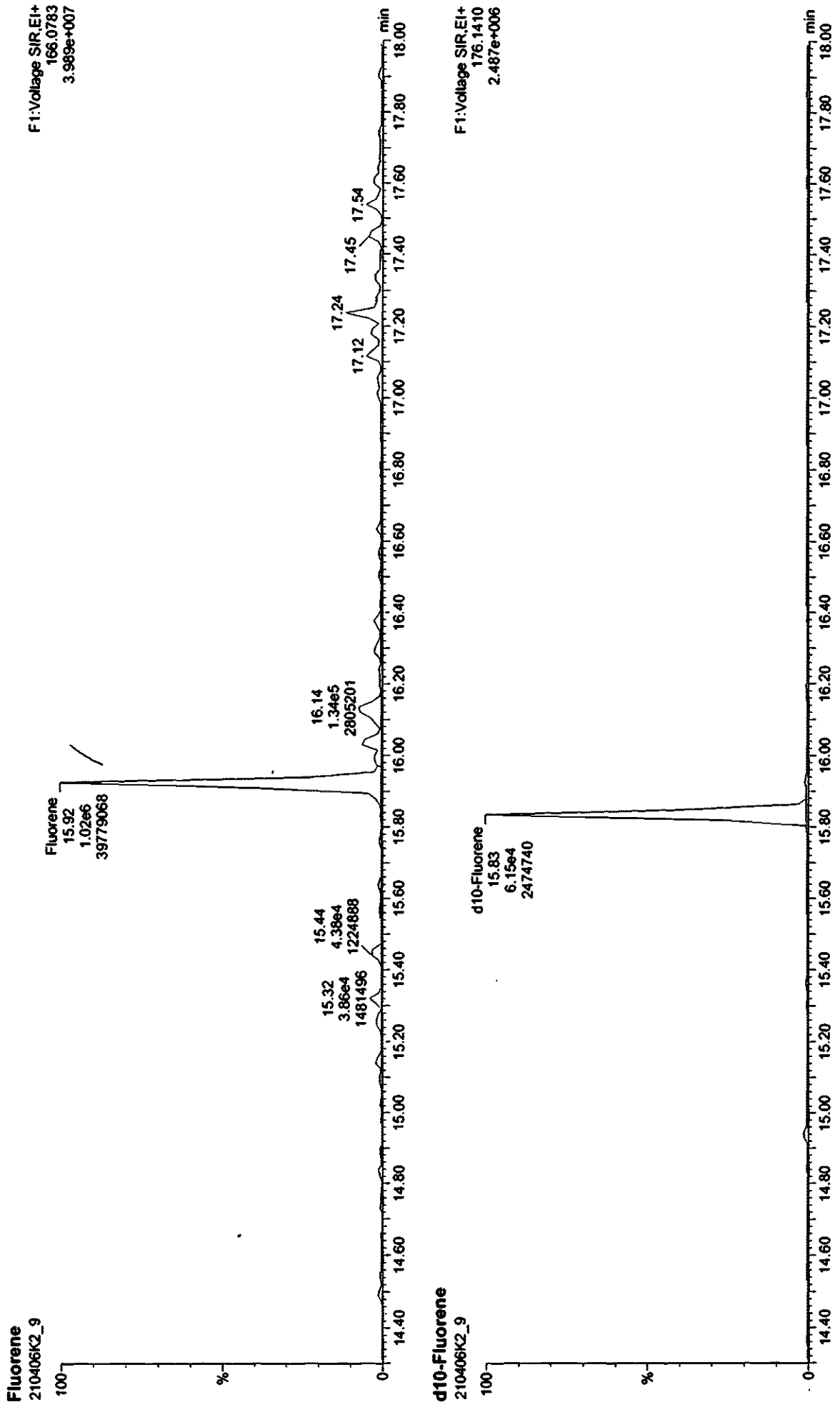


Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-9.qld

Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1, Description: 21-0883 Outlet 1



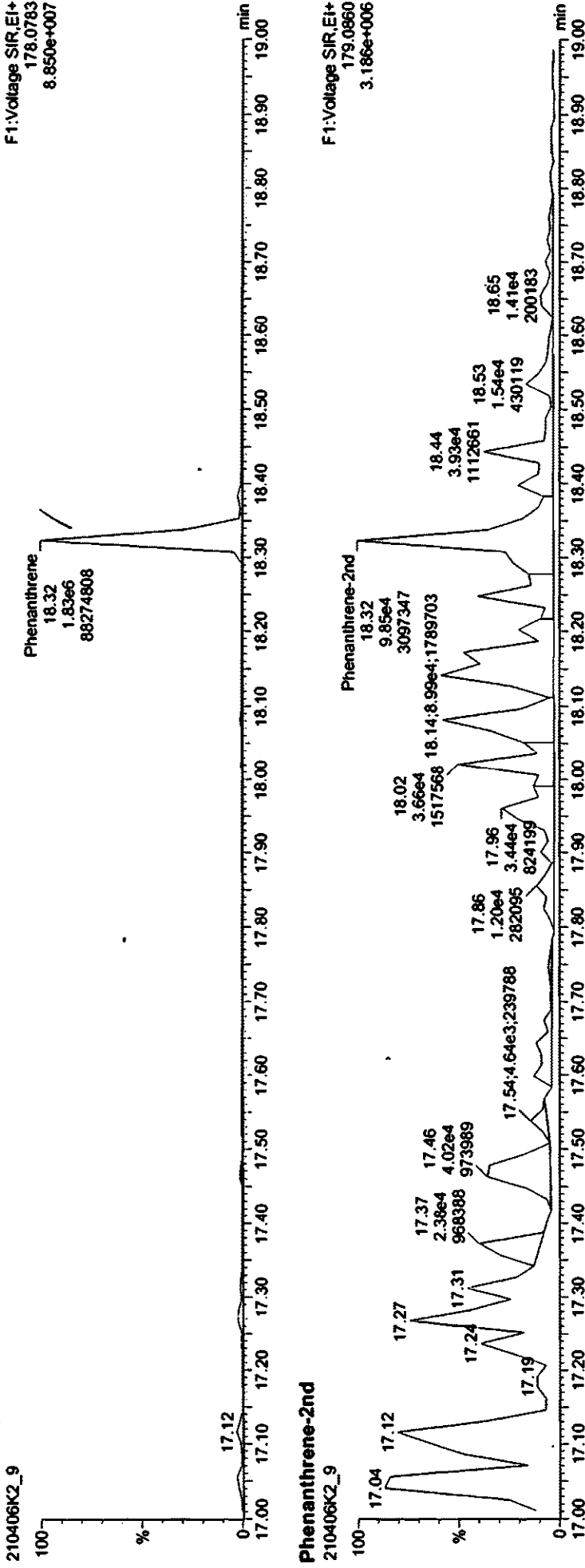
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Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

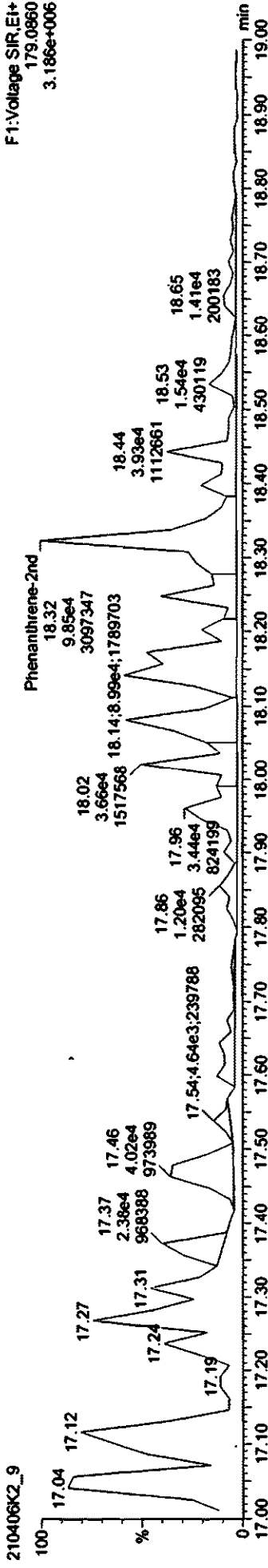
Phenanthrene; Anthracene

F1:Voltage SIR,EI+
178.0783
8.850e+007



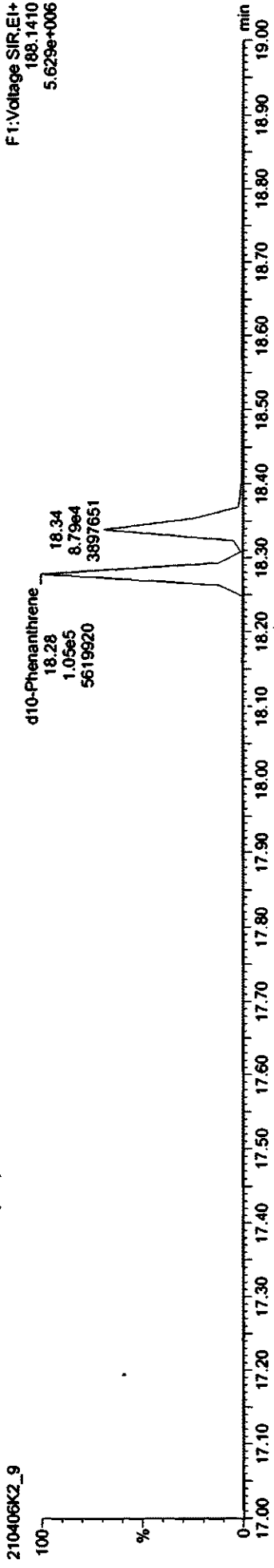
Phenanthrene-2nd

F1:Voltage SIR,EI+
179.0860
3.186e+006

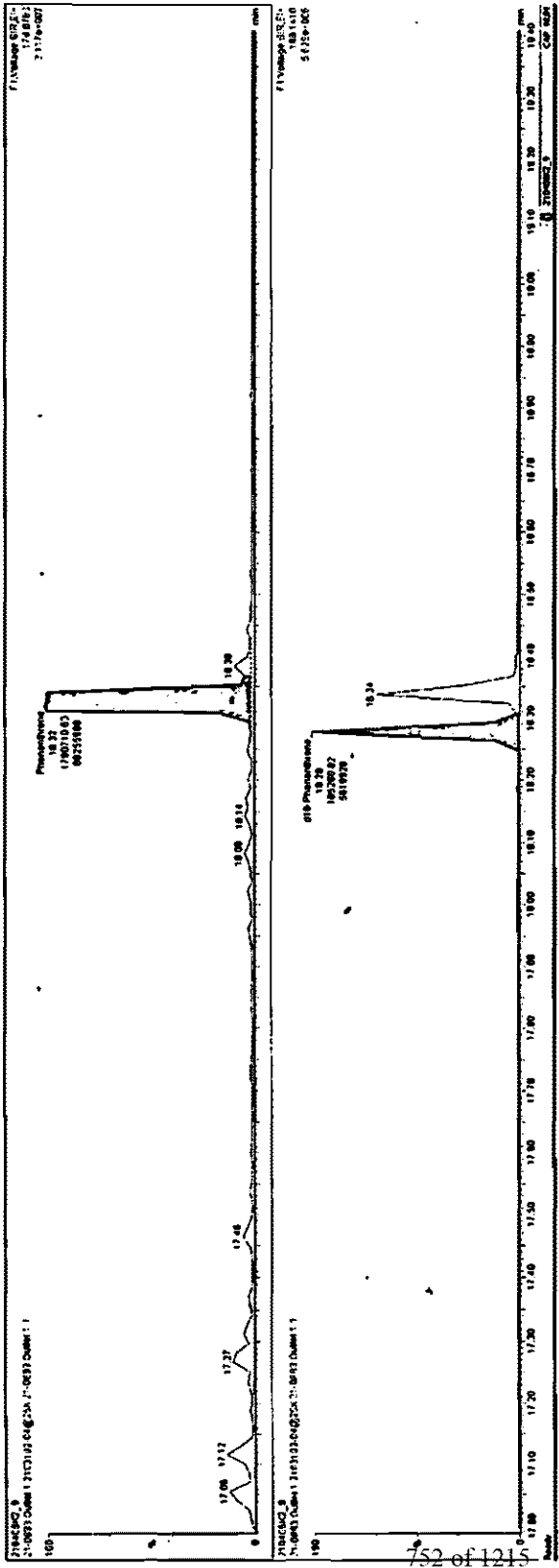


d10-Phenanthrene; d10-Anthracene (AS)

F1:Voltage SIR,EI+
188.1410
5.629e+006



| Peak | Area | Height | Retention Time (min) | Height (mV) | Area (mV) | Area (%) | Height (%) |
|------|-------|--------|----------------------|-------------|-----------|----------|------------|
| 1 | 1.000 | 1.000 | 17.06 | 17.06 | 17.06 | 0.00 | 0.00 |
| 2 | 1.000 | 1.000 | 17.12 | 17.12 | 17.12 | 0.00 | 0.00 |
| 3 | 1.000 | 1.000 | 17.37 | 17.37 | 17.37 | 0.00 | 0.00 |
| 4 | 1.000 | 1.000 | 17.48 | 17.48 | 17.48 | 0.00 | 0.00 |
| 5 | 1.000 | 1.000 | 18.08 | 18.08 | 18.08 | 0.00 | 0.00 |
| 6 | 1.000 | 1.000 | 18.10 | 18.10 | 18.10 | 0.00 | 0.00 |
| 7 | 1.000 | 1.000 | 18.24 | 18.24 | 18.24 | 0.00 | 0.00 |
| 8 | 1.000 | 1.000 | 18.34 | 18.34 | 18.34 | 0.00 | 0.00 |
| 9 | 1.000 | 1.000 | 18.36 | 18.36 | 18.36 | 0.00 | 0.00 |
| 10 | 1.000 | 1.000 | 18.38 | 18.38 | 18.38 | 0.00 | 0.00 |
| 11 | 1.000 | 1.000 | 18.40 | 18.40 | 18.40 | 0.00 | 0.00 |
| 12 | 1.000 | 1.000 | 18.42 | 18.42 | 18.42 | 0.00 | 0.00 |
| 13 | 1.000 | 1.000 | 18.44 | 18.44 | 18.44 | 0.00 | 0.00 |
| 14 | 1.000 | 1.000 | 18.46 | 18.46 | 18.46 | 0.00 | 0.00 |
| 15 | 1.000 | 1.000 | 18.48 | 18.48 | 18.48 | 0.00 | 0.00 |
| 16 | 1.000 | 1.000 | 18.50 | 18.50 | 18.50 | 0.00 | 0.00 |
| 17 | 1.000 | 1.000 | 18.52 | 18.52 | 18.52 | 0.00 | 0.00 |
| 18 | 1.000 | 1.000 | 18.54 | 18.54 | 18.54 | 0.00 | 0.00 |
| 19 | 1.000 | 1.000 | 18.56 | 18.56 | 18.56 | 0.00 | 0.00 |
| 20 | 1.000 | 1.000 | 18.58 | 18.58 | 18.58 | 0.00 | 0.00 |
| 21 | 1.000 | 1.000 | 18.60 | 18.60 | 18.60 | 0.00 | 0.00 |
| 22 | 1.000 | 1.000 | 18.62 | 18.62 | 18.62 | 0.00 | 0.00 |
| 23 | 1.000 | 1.000 | 18.64 | 18.64 | 18.64 | 0.00 | 0.00 |
| 24 | 1.000 | 1.000 | 18.66 | 18.66 | 18.66 | 0.00 | 0.00 |
| 25 | 1.000 | 1.000 | 18.68 | 18.68 | 18.68 | 0.00 | 0.00 |
| 26 | 1.000 | 1.000 | 18.70 | 18.70 | 18.70 | 0.00 | 0.00 |
| 27 | 1.000 | 1.000 | 18.72 | 18.72 | 18.72 | 0.00 | 0.00 |
| 28 | 1.000 | 1.000 | 18.74 | 18.74 | 18.74 | 0.00 | 0.00 |
| 29 | 1.000 | 1.000 | 18.76 | 18.76 | 18.76 | 0.00 | 0.00 |
| 30 | 1.000 | 1.000 | 18.78 | 18.78 | 18.78 | 0.00 | 0.00 |
| 31 | 1.000 | 1.000 | 18.80 | 18.80 | 18.80 | 0.00 | 0.00 |
| 32 | 1.000 | 1.000 | 18.82 | 18.82 | 18.82 | 0.00 | 0.00 |
| 33 | 1.000 | 1.000 | 18.84 | 18.84 | 18.84 | 0.00 | 0.00 |
| 34 | 1.000 | 1.000 | 18.86 | 18.86 | 18.86 | 0.00 | 0.00 |
| 35 | 1.000 | 1.000 | 18.88 | 18.88 | 18.88 | 0.00 | 0.00 |
| 36 | 1.000 | 1.000 | 18.90 | 18.90 | 18.90 | 0.00 | 0.00 |
| 37 | 1.000 | 1.000 | 18.92 | 18.92 | 18.92 | 0.00 | 0.00 |
| 38 | 1.000 | 1.000 | 18.94 | 18.94 | 18.94 | 0.00 | 0.00 |
| 39 | 1.000 | 1.000 | 18.96 | 18.96 | 18.96 | 0.00 | 0.00 |
| 40 | 1.000 | 1.000 | 18.98 | 18.98 | 18.98 | 0.00 | 0.00 |
| 41 | 1.000 | 1.000 | 19.00 | 19.00 | 19.00 | 0.00 | 0.00 |
| 42 | 1.000 | 1.000 | 19.02 | 19.02 | 19.02 | 0.00 | 0.00 |
| 43 | 1.000 | 1.000 | 19.04 | 19.04 | 19.04 | 0.00 | 0.00 |
| 44 | 1.000 | 1.000 | 19.06 | 19.06 | 19.06 | 0.00 | 0.00 |
| 45 | 1.000 | 1.000 | 19.08 | 19.08 | 19.08 | 0.00 | 0.00 |
| 46 | 1.000 | 1.000 | 19.10 | 19.10 | 19.10 | 0.00 | 0.00 |
| 47 | 1.000 | 1.000 | 19.12 | 19.12 | 19.12 | 0.00 | 0.00 |
| 48 | 1.000 | 1.000 | 19.14 | 19.14 | 19.14 | 0.00 | 0.00 |
| 49 | 1.000 | 1.000 | 19.16 | 19.16 | 19.16 | 0.00 | 0.00 |
| 50 | 1.000 | 1.000 | 19.18 | 19.18 | 19.18 | 0.00 | 0.00 |
| 51 | 1.000 | 1.000 | 19.20 | 19.20 | 19.20 | 0.00 | 0.00 |
| 52 | 1.000 | 1.000 | 19.22 | 19.22 | 19.22 | 0.00 | 0.00 |
| 53 | 1.000 | 1.000 | 19.24 | 19.24 | 19.24 | 0.00 | 0.00 |
| 54 | 1.000 | 1.000 | 19.26 | 19.26 | 19.26 | 0.00 | 0.00 |
| 55 | 1.000 | 1.000 | 19.28 | 19.28 | 19.28 | 0.00 | 0.00 |
| 56 | 1.000 | 1.000 | 19.30 | 19.30 | 19.30 | 0.00 | 0.00 |
| 57 | 1.000 | 1.000 | 19.32 | 19.32 | 19.32 | 0.00 | 0.00 |
| 58 | 1.000 | 1.000 | 19.34 | 19.34 | 19.34 | 0.00 | 0.00 |
| 59 | 1.000 | 1.000 | 19.36 | 19.36 | 19.36 | 0.00 | 0.00 |
| 60 | 1.000 | 1.000 | 19.38 | 19.38 | 19.38 | 0.00 | 0.00 |
| 61 | 1.000 | 1.000 | 19.40 | 19.40 | 19.40 | 0.00 | 0.00 |
| 62 | 1.000 | 1.000 | 19.42 | 19.42 | 19.42 | 0.00 | 0.00 |
| 63 | 1.000 | 1.000 | 19.44 | 19.44 | 19.44 | 0.00 | 0.00 |
| 64 | 1.000 | 1.000 | 19.46 | 19.46 | 19.46 | 0.00 | 0.00 |
| 65 | 1.000 | 1.000 | 19.48 | 19.48 | 19.48 | 0.00 | 0.00 |
| 66 | 1.000 | 1.000 | 19.50 | 19.50 | 19.50 | 0.00 | 0.00 |
| 67 | 1.000 | 1.000 | 19.52 | 19.52 | 19.52 | 0.00 | 0.00 |
| 68 | 1.000 | 1.000 | 19.54 | 19.54 | 19.54 | 0.00 | 0.00 |
| 69 | 1.000 | 1.000 | 19.56 | 19.56 | 19.56 | 0.00 | 0.00 |
| 70 | 1.000 | 1.000 | 19.58 | 19.58 | 19.58 | 0.00 | 0.00 |
| 71 | 1.000 | 1.000 | 19.60 | 19.60 | 19.60 | 0.00 | 0.00 |
| 72 | 1.000 | 1.000 | 19.62 | 19.62 | 19.62 | 0.00 | 0.00 |
| 73 | 1.000 | 1.000 | 19.64 | 19.64 | 19.64 | 0.00 | 0.00 |
| 74 | 1.000 | 1.000 | 19.66 | 19.66 | 19.66 | 0.00 | 0.00 |
| 75 | 1.000 | 1.000 | 19.68 | 19.68 | 19.68 | 0.00 | 0.00 |
| 76 | 1.000 | 1.000 | 19.70 | 19.70 | 19.70 | 0.00 | 0.00 |
| 77 | 1.000 | 1.000 | 19.72 | 19.72 | 19.72 | 0.00 | 0.00 |
| 78 | 1.000 | 1.000 | 19.74 | 19.74 | 19.74 | 0.00 | 0.00 |
| 79 | 1.000 | 1.000 | 19.76 | 19.76 | 19.76 | 0.00 | 0.00 |
| 80 | 1.000 | 1.000 | 19.78 | 19.78 | 19.78 | 0.00 | 0.00 |
| 81 | 1.000 | 1.000 | 19.80 | 19.80 | 19.80 | 0.00 | 0.00 |
| 82 | 1.000 | 1.000 | 19.82 | 19.82 | 19.82 | 0.00 | 0.00 |
| 83 | 1.000 | 1.000 | 19.84 | 19.84 | 19.84 | 0.00 | 0.00 |
| 84 | 1.000 | 1.000 | 19.86 | 19.86 | 19.86 | 0.00 | 0.00 |
| 85 | 1.000 | 1.000 | 19.88 | 19.88 | 19.88 | 0.00 | 0.00 |
| 86 | 1.000 | 1.000 | 19.90 | 19.90 | 19.90 | 0.00 | 0.00 |
| 87 | 1.000 | 1.000 | 19.92 | 19.92 | 19.92 | 0.00 | 0.00 |
| 88 | 1.000 | 1.000 | 19.94 | 19.94 | 19.94 | 0.00 | 0.00 |
| 89 | 1.000 | 1.000 | 19.96 | 19.96 | 19.96 | 0.00 | 0.00 |
| 90 | 1.000 | 1.000 | 19.98 | 19.98 | 19.98 | 0.00 | 0.00 |
| 91 | 1.000 | 1.000 | 20.00 | 20.00 | 20.00 | 0.00 | 0.00 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-9.qld

Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time

Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

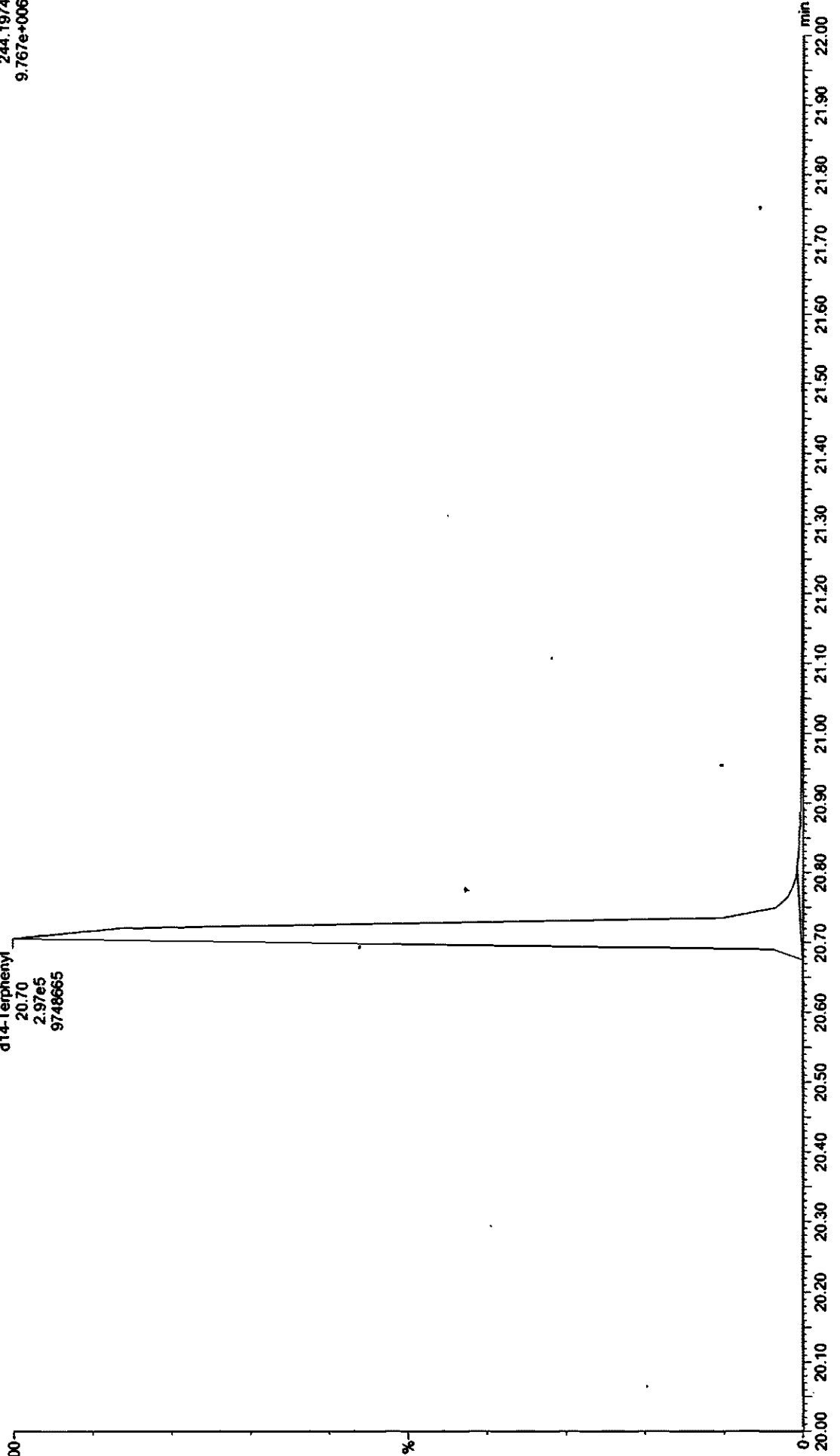
Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

d14-Terphenyl (PS)

210406K2_9

d14-Terphenyl
20.70
2.97e5
9748665

F2:Voltage SIR,EI+
244,1974
9.767e+006



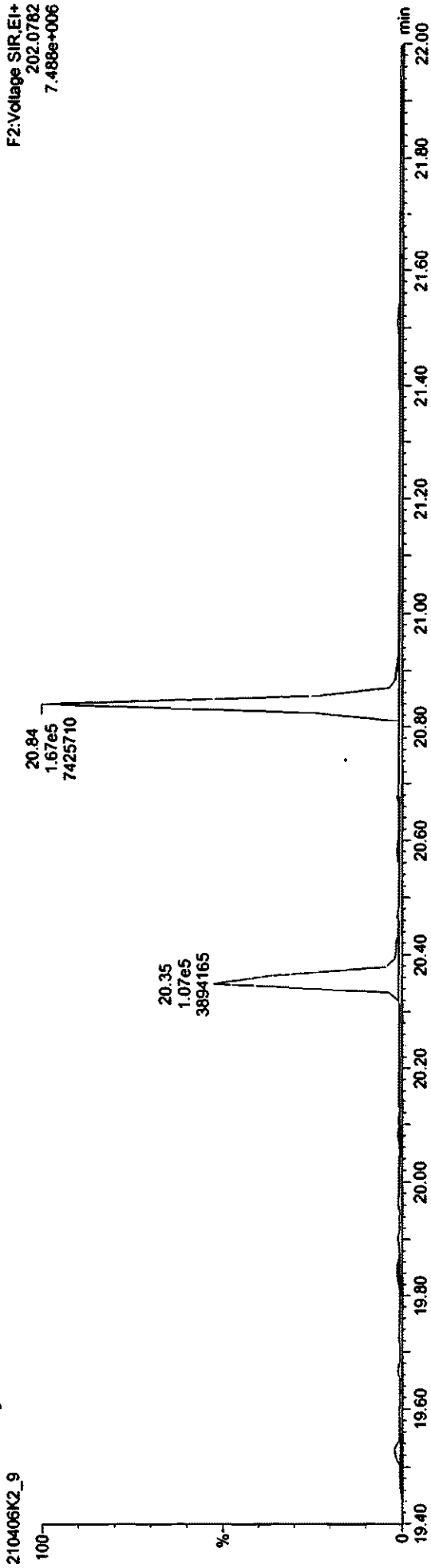
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Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

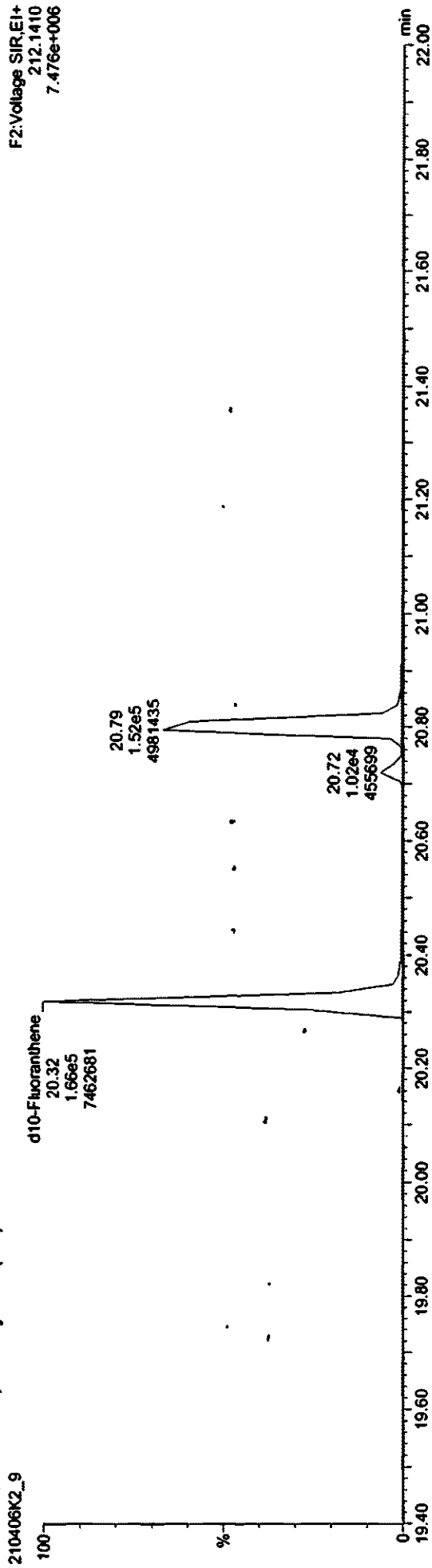
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
7.488e+006



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
7.476e+006



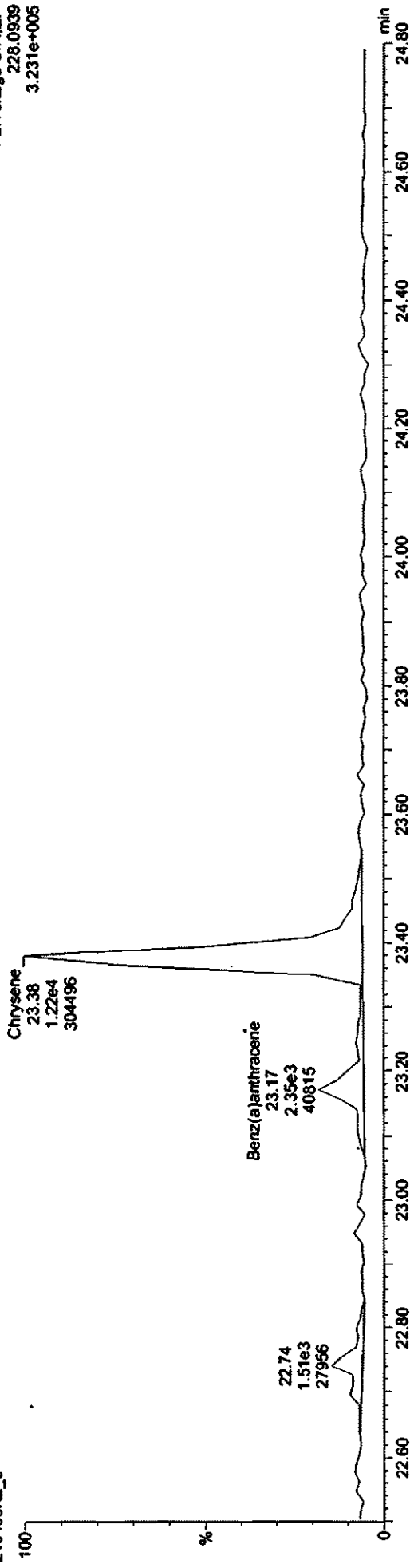
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Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1

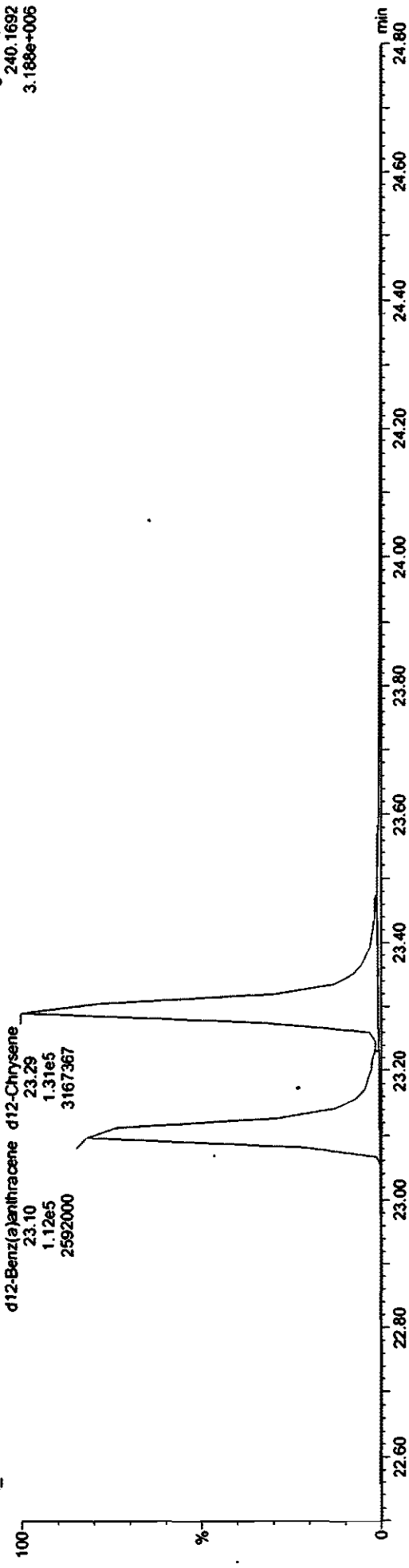
Benz(a)Anthracene-Chrysene
210406K2_9

F2:Voltage SIR.EI+
228.0939
3.231e+005



Benz(a)Anthracene-Chrysene-Iso
210406K2_9

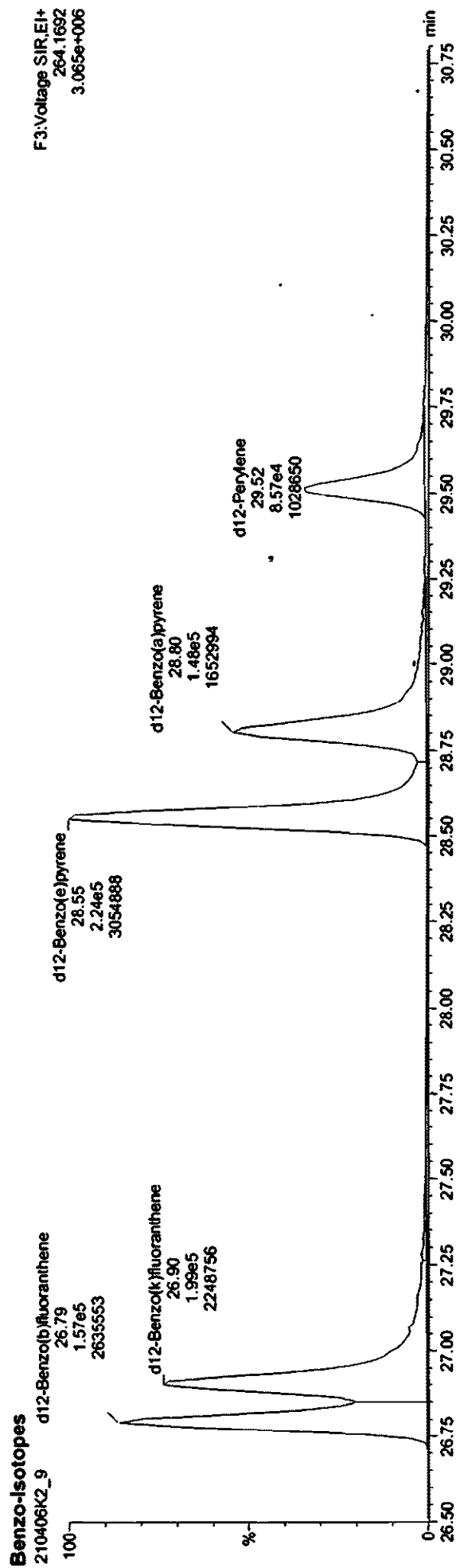
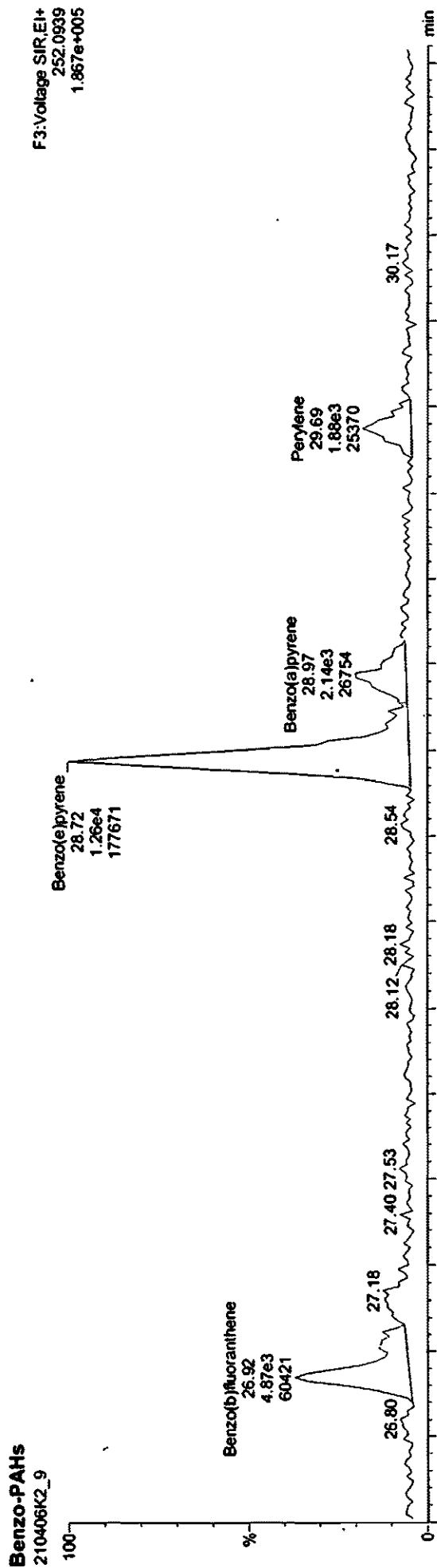
F2:Voltage SIR.EI+
240.1692
3.188e+006



Dataset: U:\VG11.PRO\Results\210406K2\210406K2-9.qld

Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1



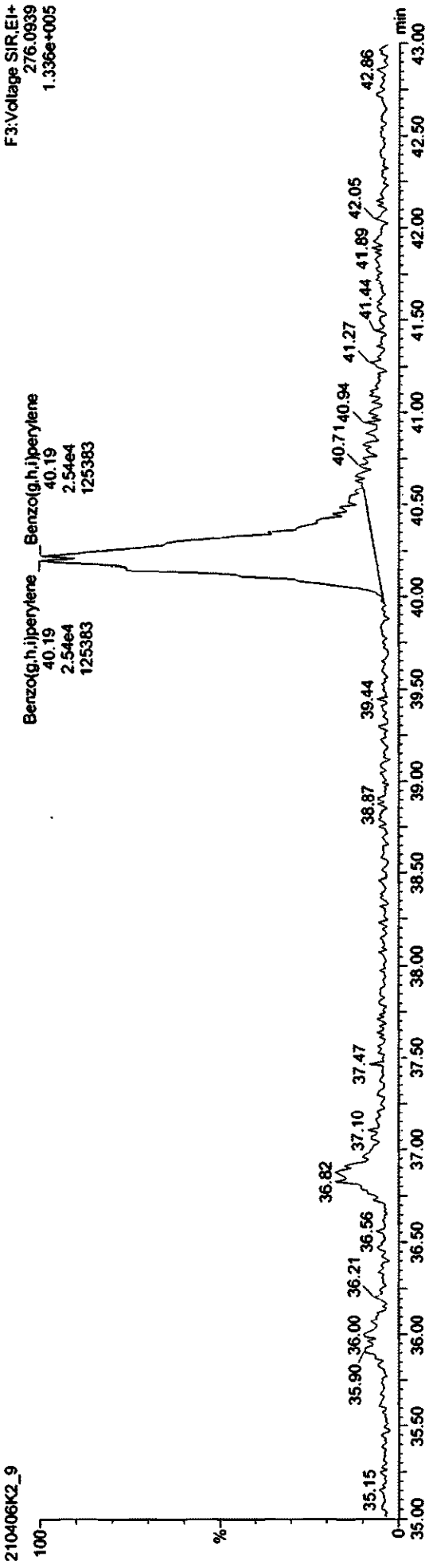
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Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1, Description: 21-0883 Outlet 1

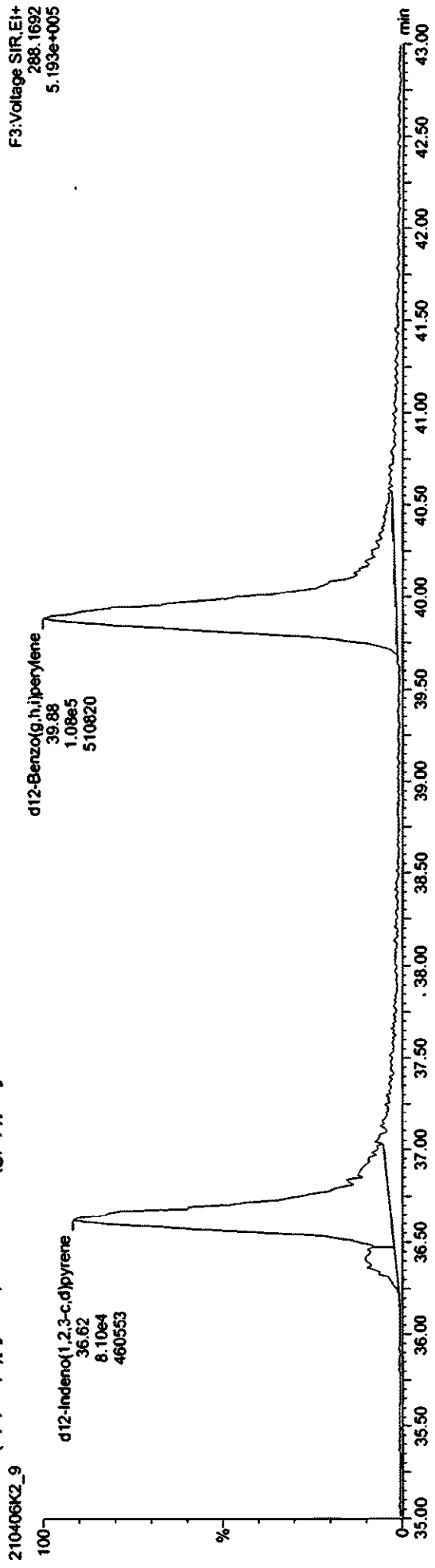
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR.EI+
276.0939
1.336e+005



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

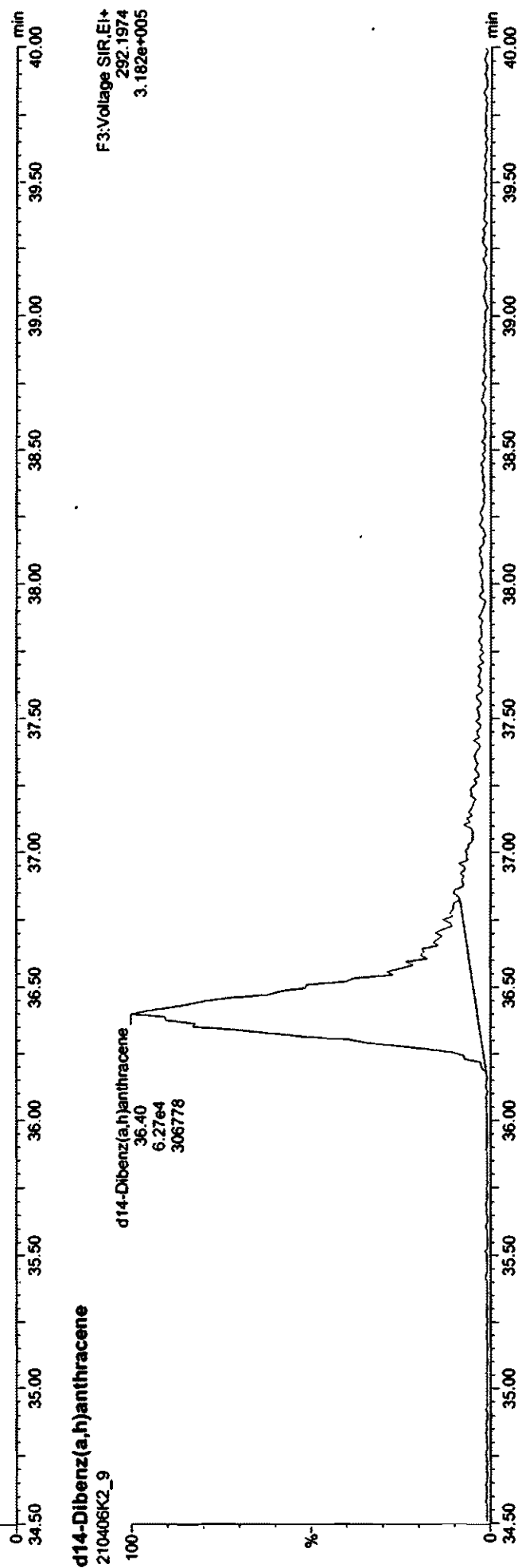
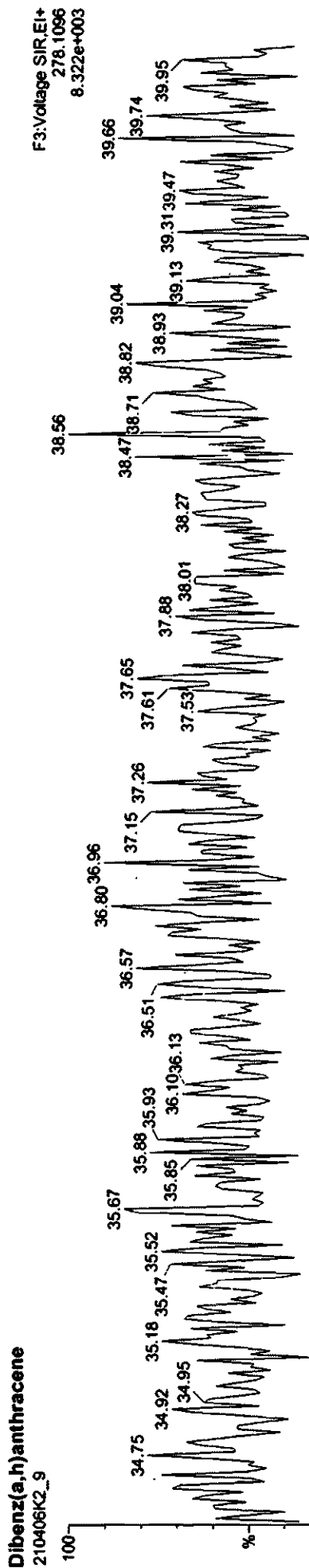
F3:Voltage SIR.EI+
288.1692
5.193e+005



Dataset: U:\VG11.PRO\Results\210406K2\210406K2-9.qld

Last Altered: Wednesday, April 07, 2021 12:11:16 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:11:43 PM Pacific Daylight Time

Name: 210406K2_9, Date: 07-Apr-2021, Time: 08:22:29, ID: 2103102-04@25X 21-0883 Outlet 1 1, Description: 21-0883 Outlet 1



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-17.qld

Last Altered: Wednesday, April 07, 2021 10:07:15 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:07:43 AM Pacific Daylight Time

Handwritten: H-47-601 CT 4/08/2021
X 4.0

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\cb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

| L # | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|-----|--------------------------|--------|---------|--------|-------|---------|-------|----------|-------|---------|--------|------|--------|
| 1 | Naphthalene | 3.33e6 | 1.64e6 | 1.16 | 1.000 | 10.17 | 10.17 | 1.006 | 1.006 | NO | 350 | | 21.5 |
| 2 | Naphthalene-2nd | 3.60e5 | 1.64e6 | 0.128 | 1.000 | 10.17 | 10.18 | 1.006 | 1.006 | NO | 343 | | 80.8 |
| 3 | 2-Methylnaphthalene | 3.29e6 | 9.47e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 505 E | | 6.41 |
| 4 | Acenaphthylene | 1.44e5 | 1.60e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 16.2 | | 25.0 |
| 5 | Acenaphthene | 4.25e6 | 9.47e5 | 1.10 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | NO | 815 E | | 34.0 |
| 6 | Fluorene | 1.04e7 | 1.01e6 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 1790 E | | 33.4 |
| 7 | Phenanthrene | 1.82e7 | 1.36e6 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 2240 E | | 14.8 |
| 8 | Phenanthrene-2nd | 1.17e6 | 1.36e6 | 0.0925 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 1899 | | 316 |
| 9 | Anthracene | 4.84e5 | 1.36e6 | 1.09 | 1.000 | 18.39 | 18.40 | 1.005 | 1.006 | NO | 65.2 | | 16.2 |
| 10 | Fluoranthene | 1.64e6 | 2.62e6 | 1.10 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 114 | | 0.821 |
| 11 | Pyrene | 3.01e6 | 2.62e6 | 1.20 | 1.000 | 20.87 | 20.85 | 1.026 | 1.026 | NO | 192 | | 0.754 |
| 12 | Benz(a)anthracene | 2.24e4 | 1.97e6 | 0.961 | 1.000 | 23.16 | 23.17 | 1.003 | 1.003 | NO | 2.37 | | 0.188 |
| 13 | Chrysene | 1.60e5 | 2.23e6 | 0.852 | 1.000 | 23.37 | 23.38 | 1.003 | 1.004 | NO | 16.9 | | 0.180 |
| 14 | Benzo(b)fluoranthene | 6.82e4 | 3.44e6 | 1.10 | 1.000 | 26.94 | 26.92 | 1.005 | 1.005 | NO | 7.18 | | 0.111 |
| 15 | Benzo(k)fluoranthene | 1.59e4 | 4.00e6 | 1.04 | 1.000 | 27.02 | 27.01 | 1.004 | 1.004 | NO | 1.53 | | 0.126 |
| 16 | Benzo(e)pyrene | 2.21e5 | 4.00e6 | 0.911 | 1.000 | 28.70 | 28.72 | 1.067 | 1.068 | NO | 24.2 | | 0.143 |
| 17 | Benzo(a)pyrene | 4.53e4 | 3.29e6 | 1.02 | 1.000 | 28.97 | 28.95 | 1.005 | 1.005 | NO | 5.43 | | 0.186 |
| 18 | Perylene | 1.65e4 | 3.29e6 | 0.987 | 1.000 | 29.71 | 29.65 | 1.031 | 1.029 | NO | 2.04 | | 0.191 |
| 19 | Indeno(1,2,3-c,d)pyrene | 5.26e4 | 1.91e6 | 0.915 | 1.000 | 36.77 | 36.75 | 1.007 | 1.006 | NO | 12.1 | | 0.673 |
| 20 | Benzo(g,h,i)perylene | 5.30e5 | 2.24e6 | 0.940 | 1.000 | 40.14 | 40.07 | 1.009 | 1.008 | NO | 101 | | 0.621 |
| 21 | Dibenz(a,h)anthracene | | 1.71e6 | 0.948 | 1.000 | 36.70 | | 1.011 | | YES | | | 0.605 |
| 22 | db-Naphthalene | 1.64e6 | 2.61e6 | 1.20 | 1.000 | 10.12 | 10.12 | 0.848 | 0.848 | NO | 104 | 52.2 | 0.0664 |
| 23 | db-Acenaphthylene | 1.60e6 | 2.61e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 135 | 67.5 | 0.249 |
| 24 | d10-Acenaphthene | 9.47e5 | 2.61e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 122 | 61.0 | 0.103 |
| 25 | d10-Fluorene | 1.01e6 | 2.61e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 137 | 68.6 | 0.114 |
| 26 | d10-Phenanthrene | 1.36e6 | 2.61e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 142 | 70.8 | 0.0985 |
| 27 | d10-Fluoranthene | 2.62e6 | 2.61e6 | 1.29 | 1.000 | 20.33 | 20.33 | 0.977 | 0.977 | NO | 156 | 77.9 | 0.0222 |
| 28 | d12-Benz(a)anthracene | 1.97e6 | 2.61e6 | 0.900 | 1.000 | 23.11 | 23.10 | 1.110 | 1.110 | NO | 167 | 83.6 | 0.0392 |
| 29 | d12-Chrysene | 2.23e6 | 2.61e6 | 1.02 | 1.000 | 23.30 | 23.29 | 1.120 | 1.119 | NO | 167 | 83.5 | 0.0345 |
| 30 | d12-Benzo(b)fluoranthene | 3.44e6 | 1.98e6 | 1.18 | 1.000 | 26.75 | 26.80 | 0.907 | 0.909 | NO | 295 | 73.7 | 0.138 |
| 31 | d12-Benzo(k)fluoranthene | 4.00e6 | 1.98e6 | 1.50 | 1.000 | 26.86 | 26.90 | 0.911 | 0.912 | NO | 269 | 67.3 | 0.109 |

Quantify Sample Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-17.qtd

Last Altered: Wednesday, April 07, 2021 10:07:15 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 10:07:43 AM Pacific Daylight Time

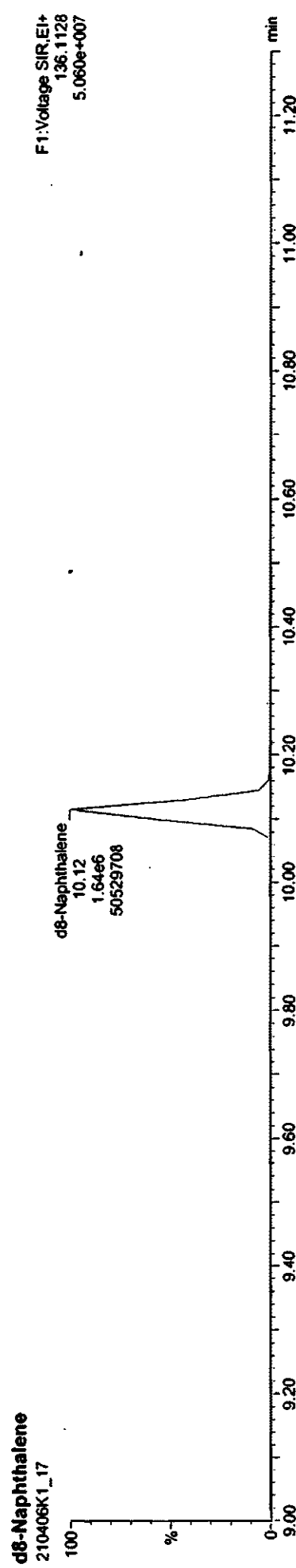
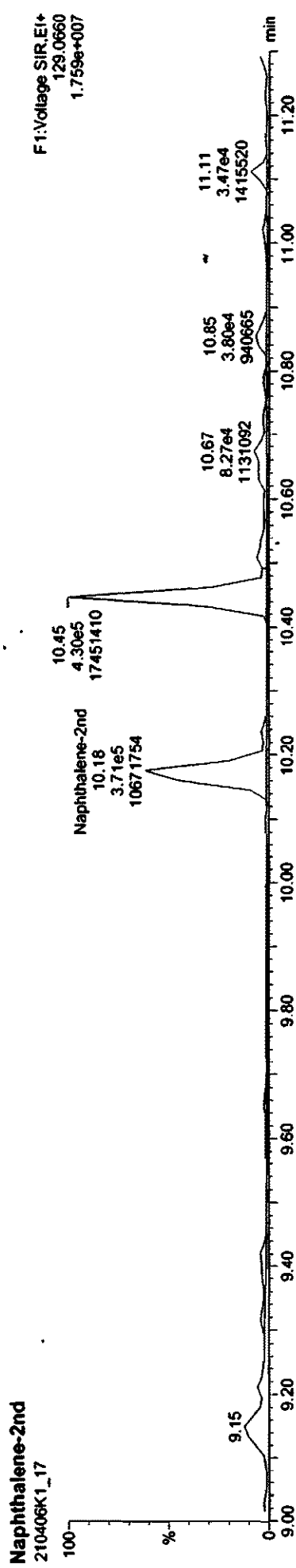
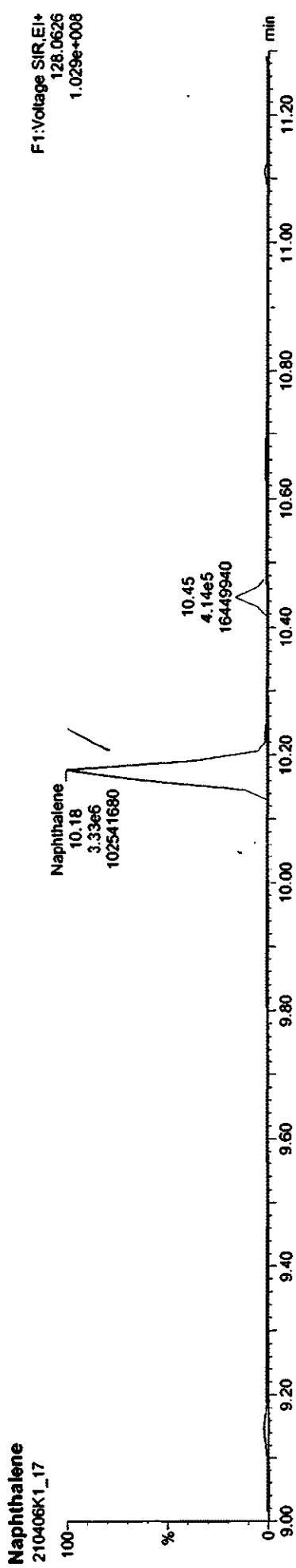
Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

| L# | Name | Resp | IS Resp | RRF | w/vol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 32 | d12-Benzof(a)pyrene | 3.29e6 | 1.98e6 | 1.24 | 1.000 | 28.74 | 28.80 | 0.975 | 0.977 | NO | 269 | 67.2 | 0.132 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 1.91e6 | 1.98e6 | 1.02 | 1.000 | 36.76 | 36.52 | 1.247 | 1.239 | NO | 189 | 47.4 | 0.247 |
| 34 | d12-Benzof(g,h,i)perylene | 2.24e6 | 1.98e6 | 1.00 | 1.000 | 40.16 | 39.77 | 1.362 | 1.349 | YES | 226 | 56.5 | 0.250 |
| 35 | d14-Dibenz(a,h)anthracene | 1.71e6 | 1.98e6 | 0.765 | 1.000 | 36.54 | 36.29 | 1.239 | 1.231 | NO | 227 | 56.7 | 0.185 |
| 36 | d10-Anthracene | 1.17e6 | 1.98e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 120 | 60.0 | 0.353 |
| 37 | d14-Terphenyl | 4.69e6 | 2.62e6 | 0.576 | 1.000 | 20.70 | 20.72 | 1.018 | 1.019 | NO | 622 | 124 | 0.0441 |
| 38 | d12-Benzof(e)pyrene | 4.38e6 | 4.00e6 | 0.738 | 1.000 | 28.52 | 28.55 | 1.060 | 1.061 | NO | 594 | 119 | 0.180 |
| 39 | d10-1-Methylnaphthalene | 1.56e6 | 1.56e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.109 |
| 40 | d10-Pyrene | 2.61e6 | 2.61e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 0.0285 |
| 41 | d12-Perylene | 1.98e6 | 1.98e6 | 1.00 | 1.000 | 29.59 | 29.48 | 1.000 | 1.000 | NO | 200 | 100 | 0.163 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2



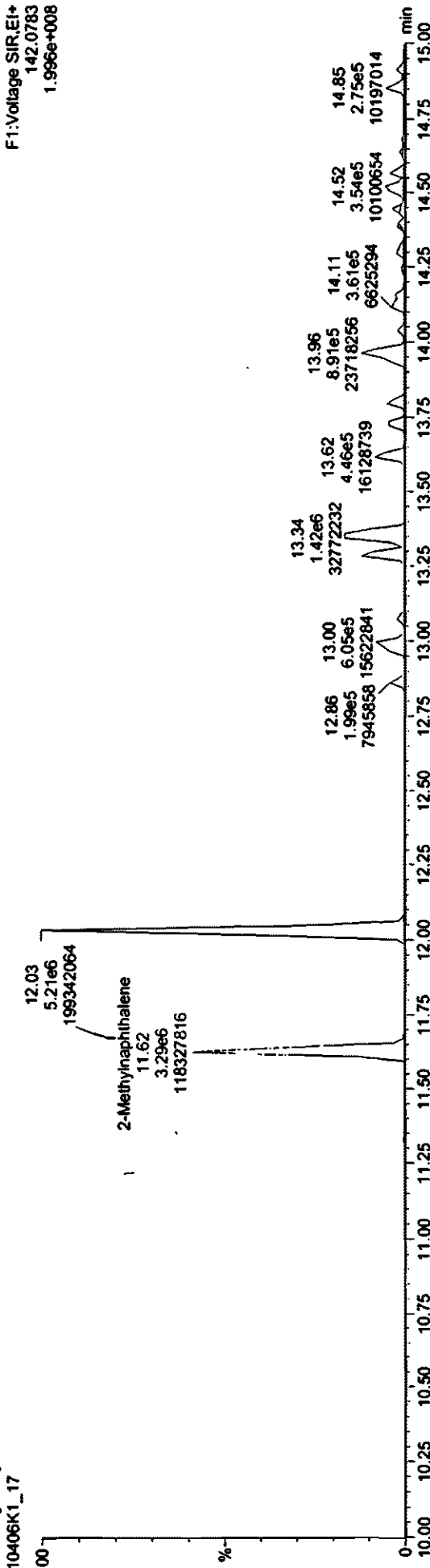
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2, Description: 21-0883 Outlet 2

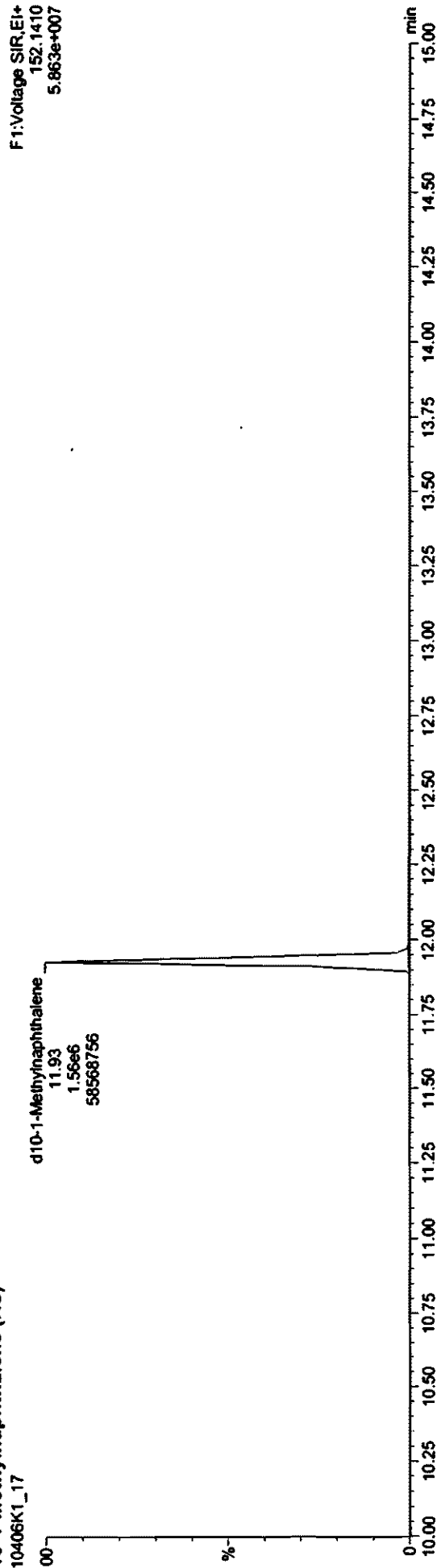
2-Methylnaphthalene

F1: Voltage SIR, EI+
142.0783
1.996e+008



d10-1-Methylnaphthalene (RS)

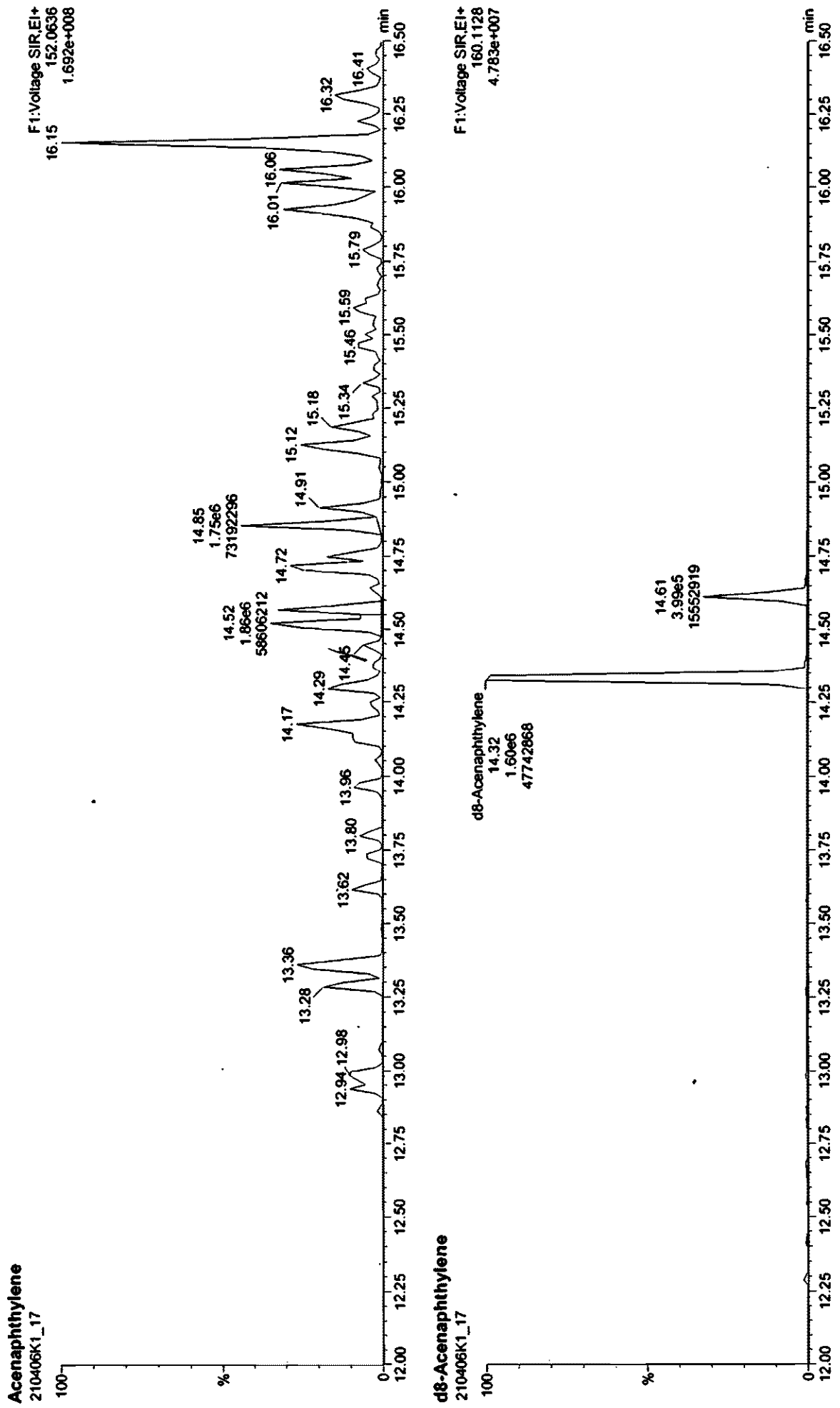
F1: Voltage SIR, EI+
152.1410
5.863e+007



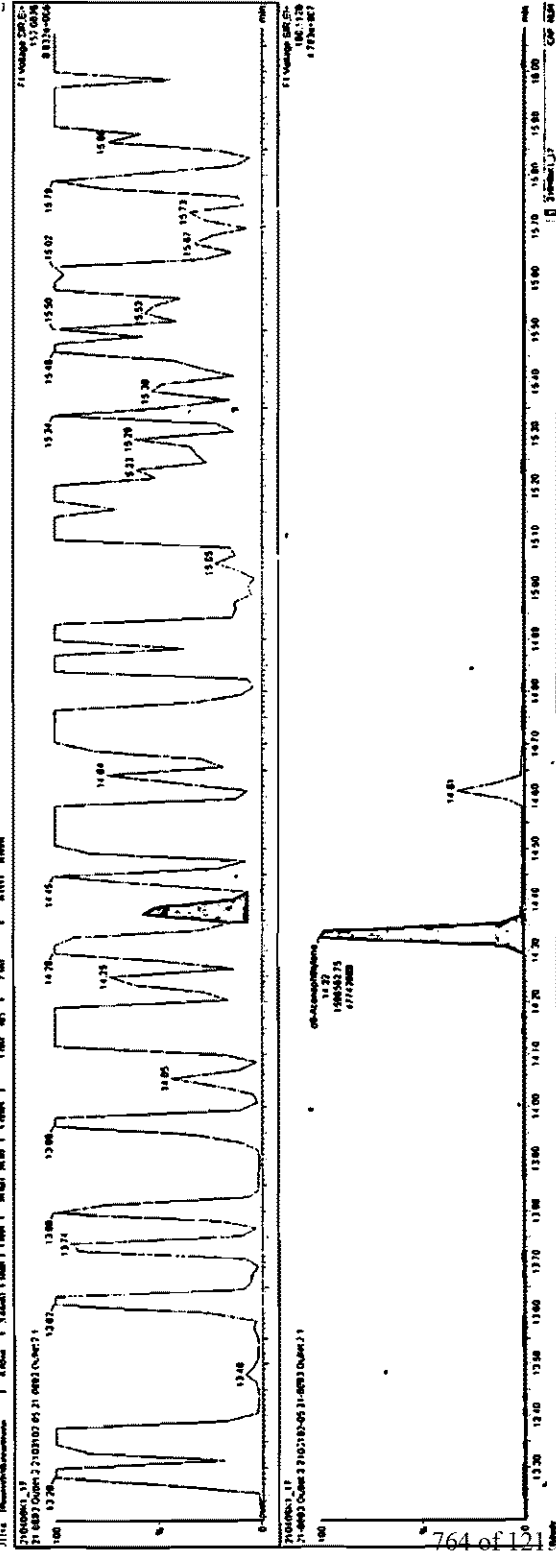
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2



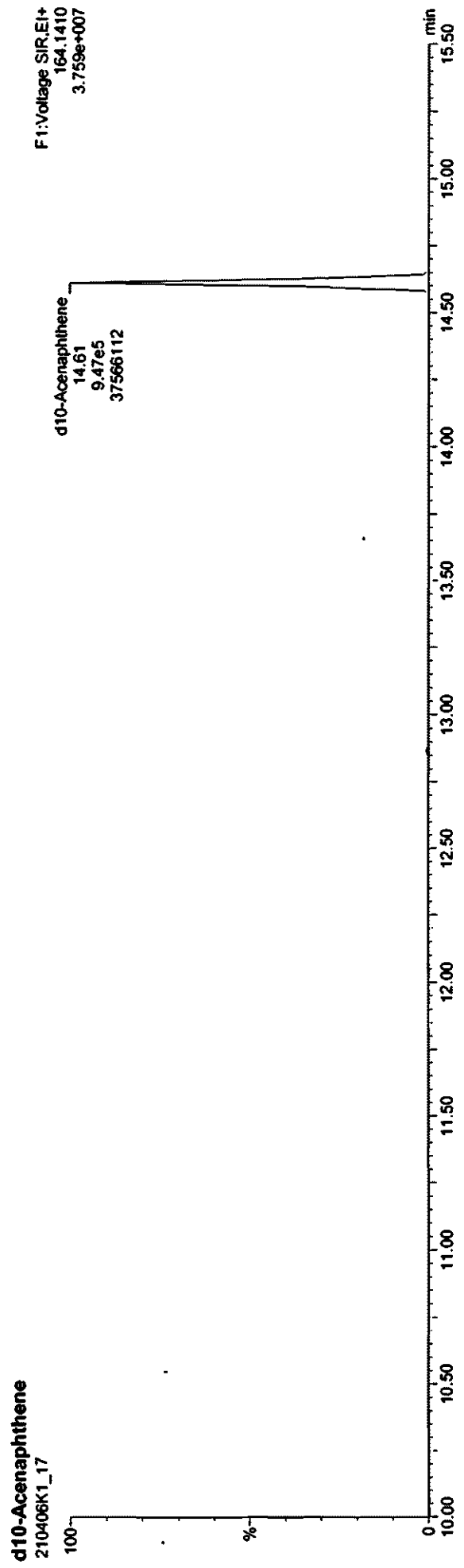
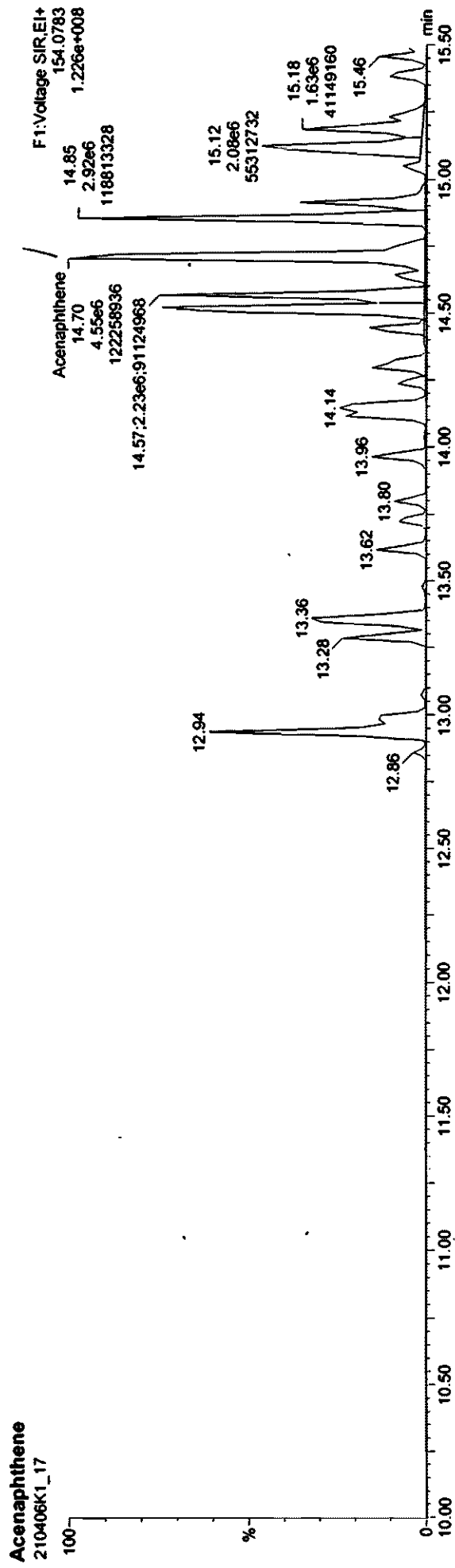
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Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

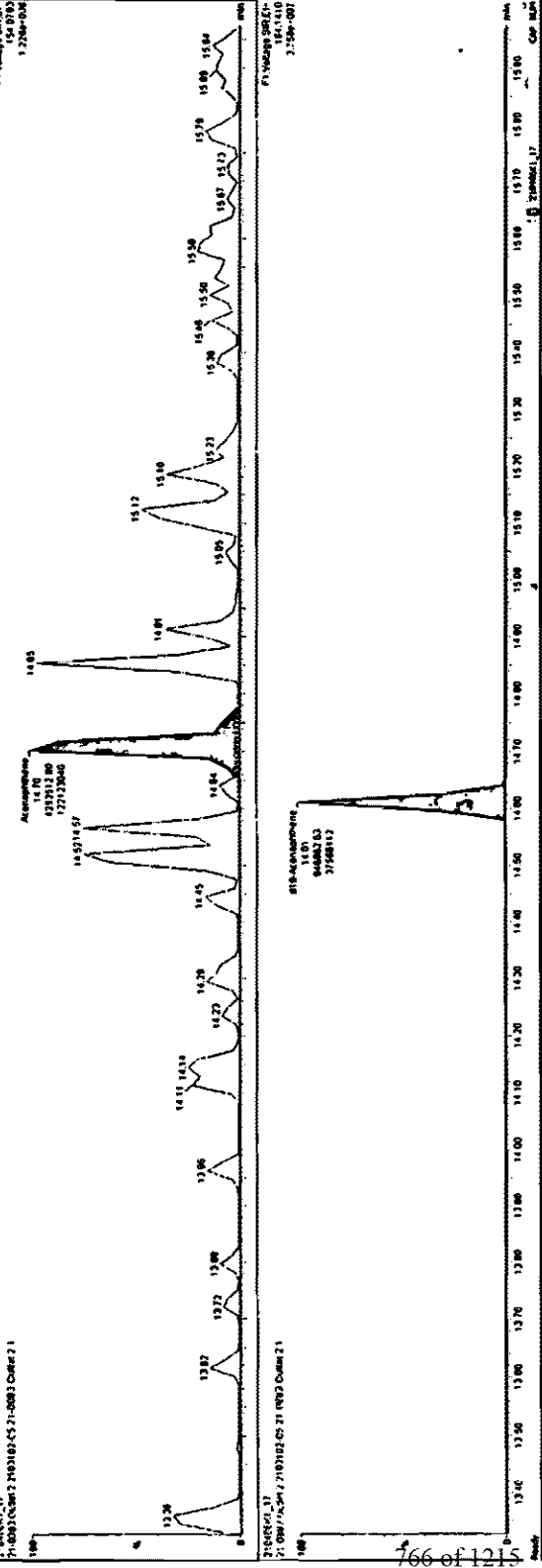


1.1328

File
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 Tables
 Views
 Windows
 Help

2.0000 - 2.0000

| RT | Area | Height | Width | Asym | S/N | Int | Peak | Ident | Off | GC | MS | ES |
|-------|--------|--------|-------|------|------|------|-------|-------|-----|-------|----|----|
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| 13.82 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 13.82 | | | 13.82 | | |
| 13.96 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 13.96 | | | 13.96 | | |
| 14.11 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 14.11 | | | 14.11 | | |
| 14.23 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 14.23 | | | 14.23 | | |
| 14.28 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 14.28 | | | 14.28 | | |
| 14.45 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 14.45 | | | 14.45 | | |
| 14.60 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 14.60 | | | 14.60 | | |
| 14.80 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 14.80 | | | 14.80 | | |
| 14.96 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 14.96 | | | 14.96 | | |
| 15.00 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.00 | | | 15.00 | | |
| 15.05 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.05 | | | 15.05 | | |
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| 15.20 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.20 | | | 15.20 | | |
| 15.26 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.26 | | | 15.26 | | |
| 15.30 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.30 | | | 15.30 | | |
| 15.50 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.50 | | | 15.50 | | |
| 15.76 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.76 | | | 15.76 | | |
| 15.80 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.80 | | | 15.80 | | |
| 15.83 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.83 | | | 15.83 | | |
| 15.86 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.86 | | | 15.86 | | |
| 15.90 | 1.82E4 | 1.10E5 | 0.18 | 0.03 | 1000 | 1.00 | 15.90 | | | 15.90 | | |

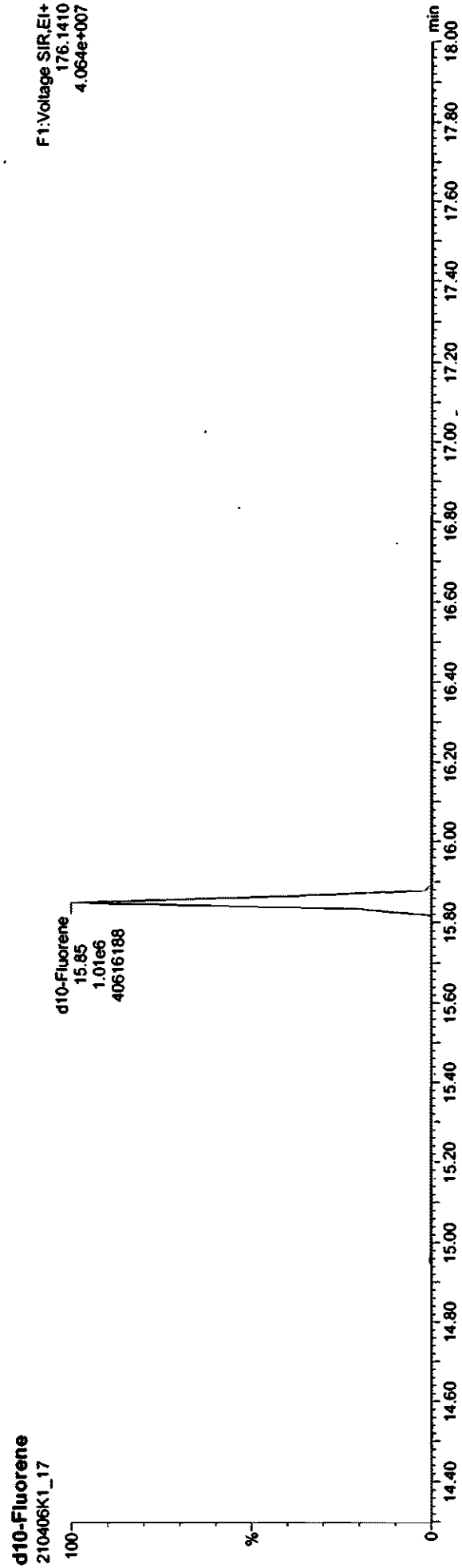
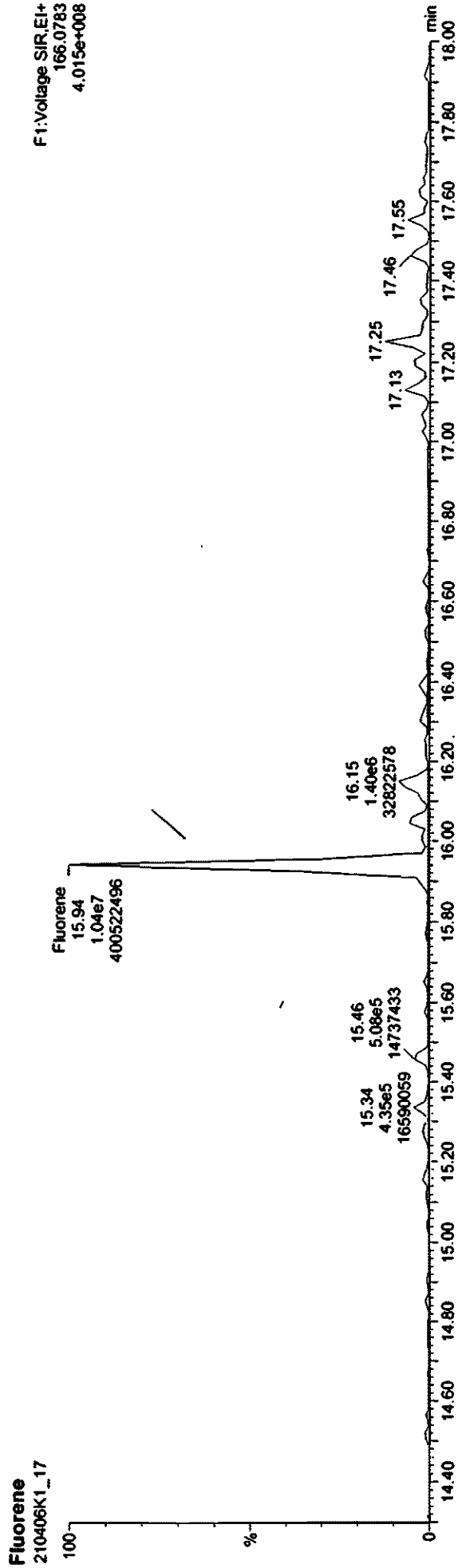


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

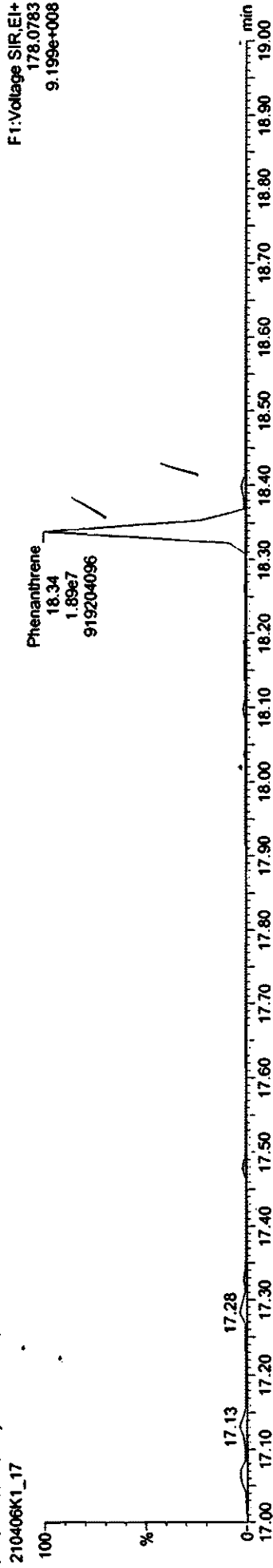


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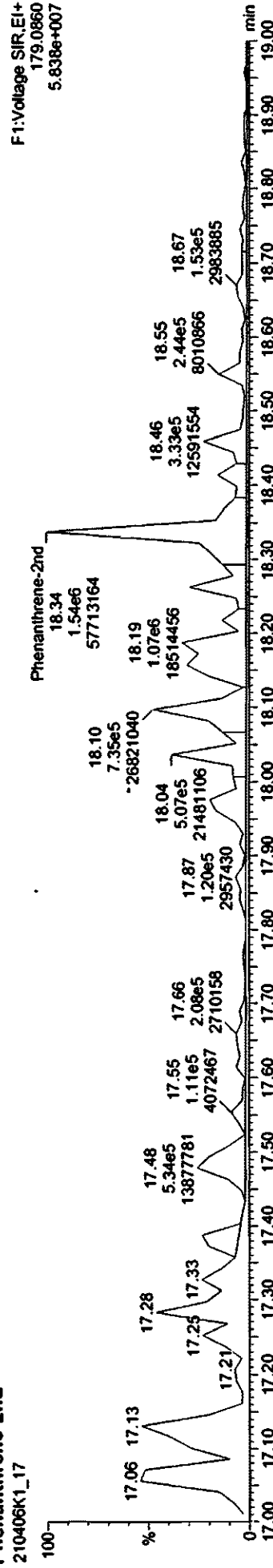
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

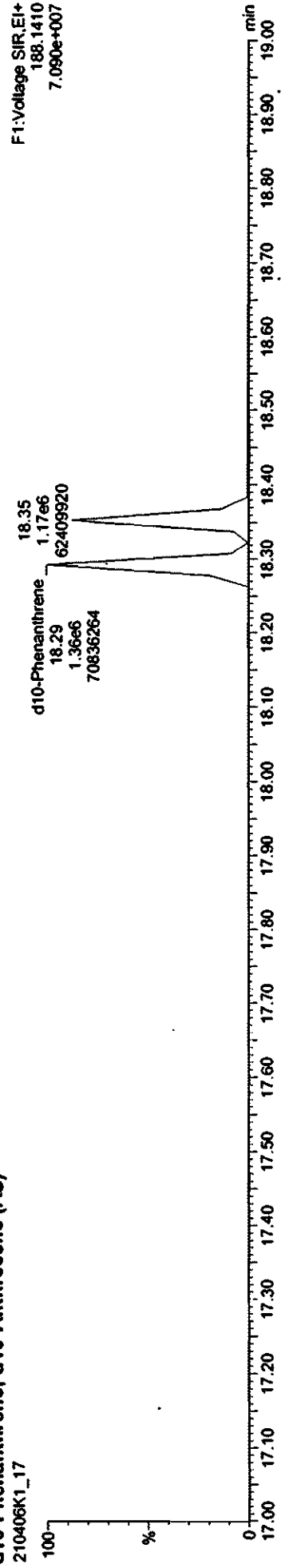
Phenanthrene; Anthracene
210406K1_17



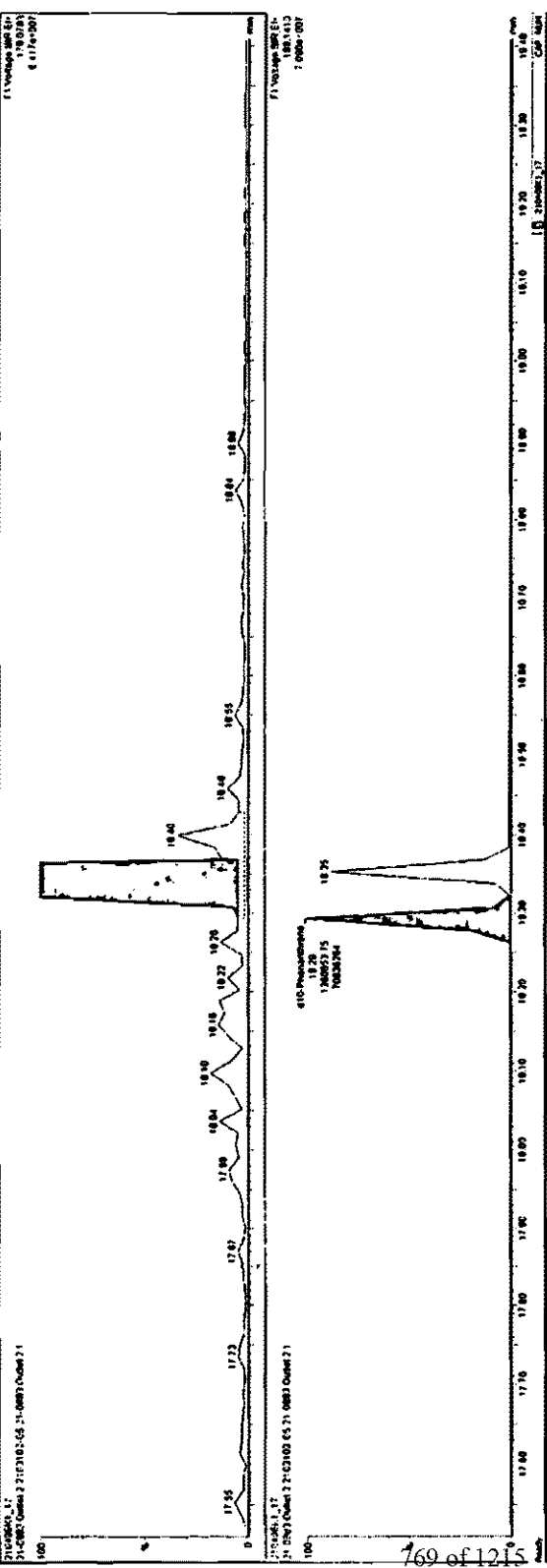
Phenanthrene-2nd
210406K1_17



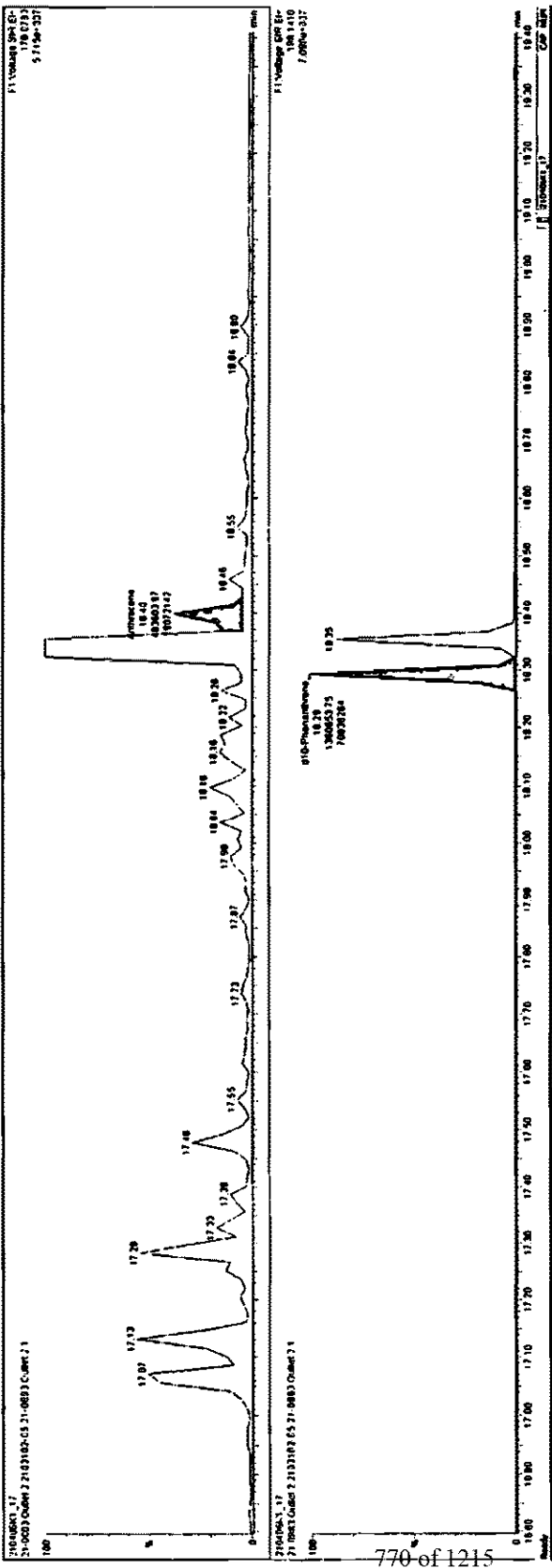
d10-Phenanthrene; d10-Anthracene (AS)
210406K1_17



| Peak | RT | Area | Height | W | Area% | Height% | Ident | Conf | Int |
|------|-------|------|--------|------|-------|---------|-------|------|-----|
| 1 | 17.56 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 2 | 17.73 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 3 | 17.90 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 4 | 18.04 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 5 | 18.18 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 6 | 18.27 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 7 | 18.40 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 8 | 18.44 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 9 | 18.48 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 10 | 18.55 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 11 | 18.64 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 12 | 18.76 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 13 | 18.84 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 14 | 18.92 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 15 | 19.00 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 16 | 19.08 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 17 | 19.16 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 18 | 19.24 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 19 | 19.32 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 20 | 19.40 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 21 | 19.48 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 22 | 19.56 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 23 | 19.64 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 24 | 19.72 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 25 | 19.80 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 26 | 19.88 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 27 | 19.96 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 28 | 20.04 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 29 | 20.12 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 30 | 20.20 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 31 | 20.28 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 32 | 20.36 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 33 | 20.44 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 34 | 20.52 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 35 | 20.60 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 36 | 20.68 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 37 | 20.76 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 38 | 20.84 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 39 | 20.92 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 40 | 21.00 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 41 | 21.08 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 42 | 21.16 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 43 | 21.24 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 44 | 21.32 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 45 | 21.40 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 46 | 21.48 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 47 | 21.56 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 48 | 21.64 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 49 | 21.72 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 50 | 21.80 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 51 | 21.88 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 52 | 21.96 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 53 | 22.04 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 54 | 22.12 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 55 | 22.20 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 56 | 22.28 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 57 | 22.36 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 58 | 22.44 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 59 | 22.52 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 60 | 22.60 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 61 | 22.68 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 62 | 22.76 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 63 | 22.84 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 64 | 22.92 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 65 | 23.00 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 66 | 23.08 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 67 | 23.16 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 68 | 23.24 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 69 | 23.32 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 70 | 23.40 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 71 | 23.48 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 72 | 23.56 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 73 | 23.64 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 74 | 23.72 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 75 | 23.80 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 76 | 23.88 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 77 | 23.96 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 78 | 24.04 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 79 | 24.12 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 80 | 24.20 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 81 | 24.28 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 82 | 24.36 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 83 | 24.44 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 84 | 24.52 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 85 | 24.60 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 86 | 24.68 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 87 | 24.76 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 88 | 24.84 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 89 | 24.92 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 90 | 25.00 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 91 | 25.08 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 92 | 25.16 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 93 | 25.24 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 94 | 25.32 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 95 | 25.40 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 96 | 25.48 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 97 | 25.56 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 98 | 25.64 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 99 | 25.72 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |
| 100 | 25.80 | 1.00 | 1.00 | 0.10 | 0.00 | 0.00 | | | |



| RT | Area | Height | Area% | Height% | RT | Area | Height | Area% | Height% |
|-------|-------|--------|-------|---------|-------|------|--------|-------|---------|
| 17.07 | 12000 | 1.000 | 10.00 | 10.00 | 17.20 | 1000 | 1.000 | 10.00 | 10.00 |
| 17.13 | 12000 | 1.000 | 10.00 | 10.00 | 17.23 | 1000 | 1.000 | 10.00 | 10.00 |
| 17.20 | 12000 | 1.000 | 10.00 | 10.00 | 17.48 | 1000 | 1.000 | 10.00 | 10.00 |
| 17.23 | 1000 | 1.000 | 10.00 | 10.00 | 17.55 | 1000 | 1.000 | 10.00 | 10.00 |
| 17.48 | 1000 | 1.000 | 10.00 | 10.00 | 17.73 | 1000 | 1.000 | 10.00 | 10.00 |
| 17.55 | 1000 | 1.000 | 10.00 | 10.00 | 17.90 | 1000 | 1.000 | 10.00 | 10.00 |
| 17.73 | 1000 | 1.000 | 10.00 | 10.00 | 17.96 | 1000 | 1.000 | 10.00 | 10.00 |
| 17.90 | 1000 | 1.000 | 10.00 | 10.00 | 18.04 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.04 | 1000 | 1.000 | 10.00 | 10.00 | 18.16 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.16 | 1000 | 1.000 | 10.00 | 10.00 | 18.22 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.22 | 1000 | 1.000 | 10.00 | 10.00 | 18.35 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.35 | 1000 | 1.000 | 10.00 | 10.00 | 18.40 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.40 | 1000 | 1.000 | 10.00 | 10.00 | 18.55 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.55 | 1000 | 1.000 | 10.00 | 10.00 | 18.64 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.64 | 1000 | 1.000 | 10.00 | 10.00 | 18.80 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.80 | 1000 | 1.000 | 10.00 | 10.00 | 18.90 | 1000 | 1.000 | 10.00 | 10.00 |
| 18.90 | 1000 | 1.000 | 10.00 | 10.00 | 19.00 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.00 | 1000 | 1.000 | 10.00 | 10.00 | 19.10 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.10 | 1000 | 1.000 | 10.00 | 10.00 | 19.20 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.20 | 1000 | 1.000 | 10.00 | 10.00 | 19.30 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.30 | 1000 | 1.000 | 10.00 | 10.00 | 19.40 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.40 | 1000 | 1.000 | 10.00 | 10.00 | 19.50 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.50 | 1000 | 1.000 | 10.00 | 10.00 | 19.60 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.60 | 1000 | 1.000 | 10.00 | 10.00 | 19.70 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.70 | 1000 | 1.000 | 10.00 | 10.00 | 19.80 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.80 | 1000 | 1.000 | 10.00 | 10.00 | 19.90 | 1000 | 1.000 | 10.00 | 10.00 |
| 19.90 | 1000 | 1.000 | 10.00 | 10.00 | 20.00 | 1000 | 1.000 | 10.00 | 10.00 |



Quantify Sample Report
Vista Analytical Laboratory

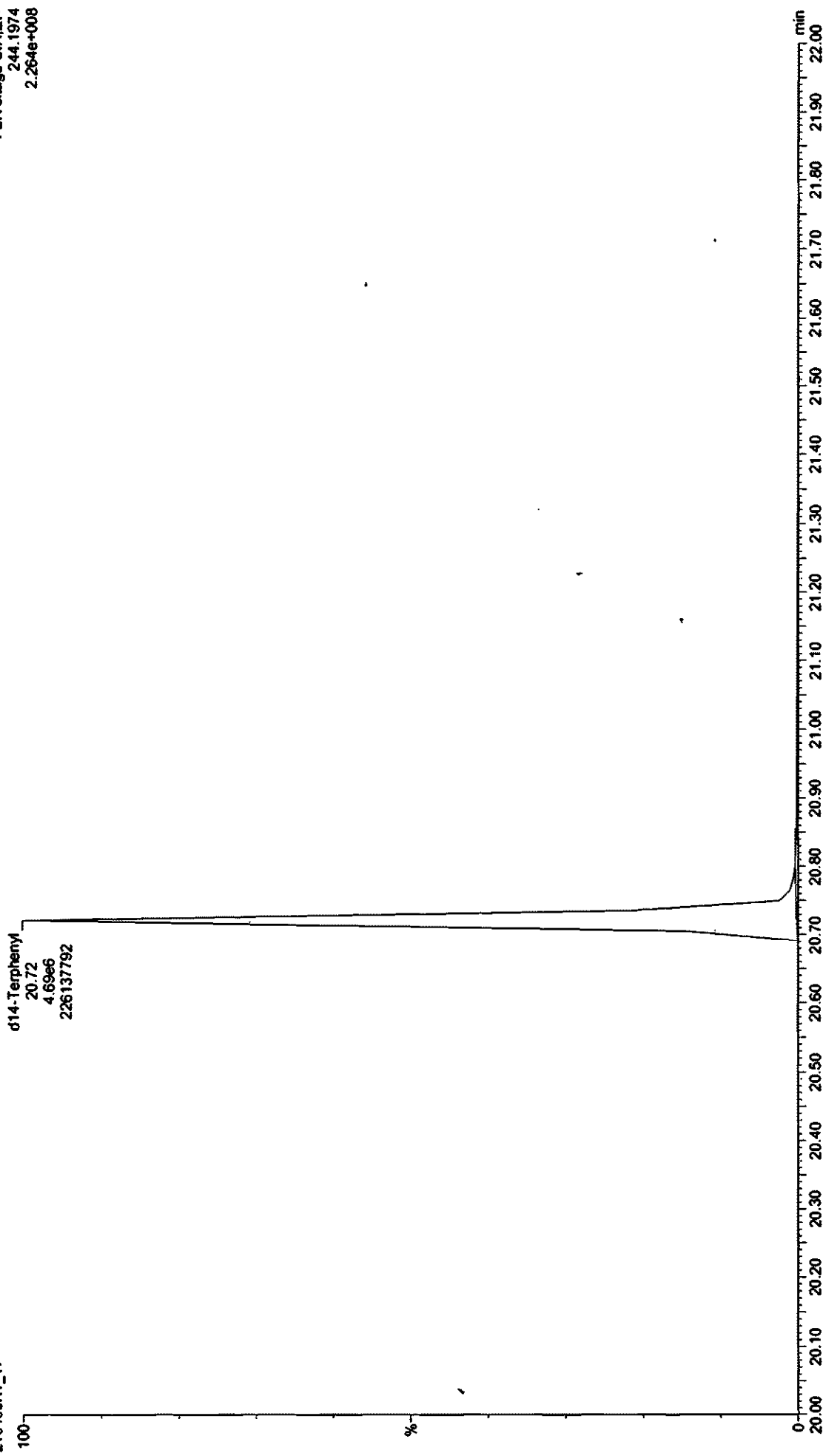
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

d14-Terphenyl (PS)
210406K1_17

F2:Voltage SIR,EI+
244.1974
2.264e+008



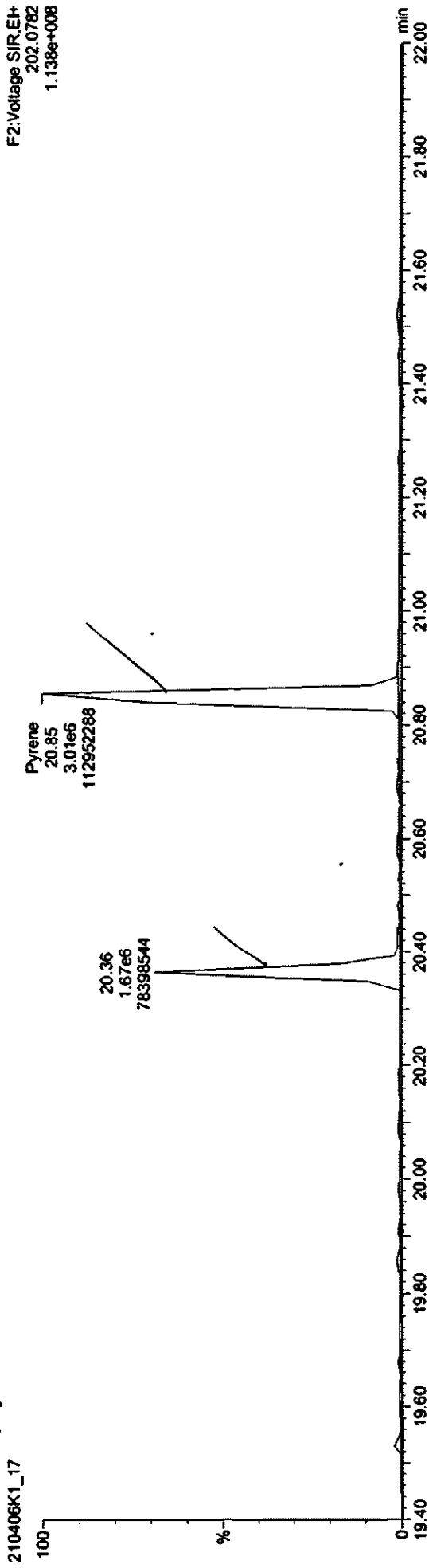
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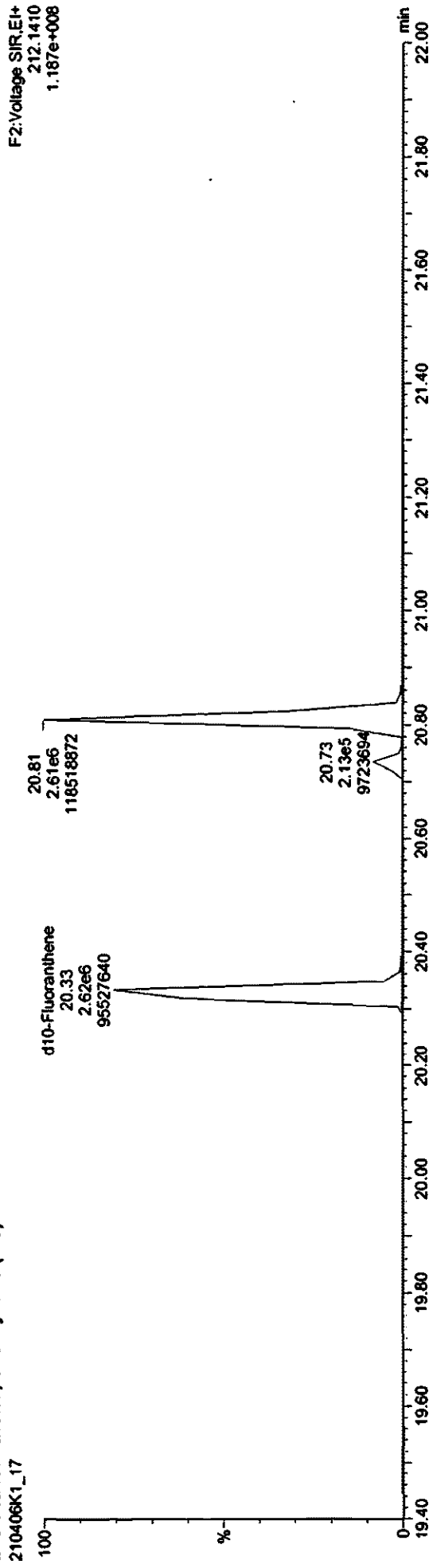
Fluoranthene; Pyrene

F2:Voltage SIR.EI+
202.0782
1.138e+008



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR.EI+
212.1410
1.167e+008



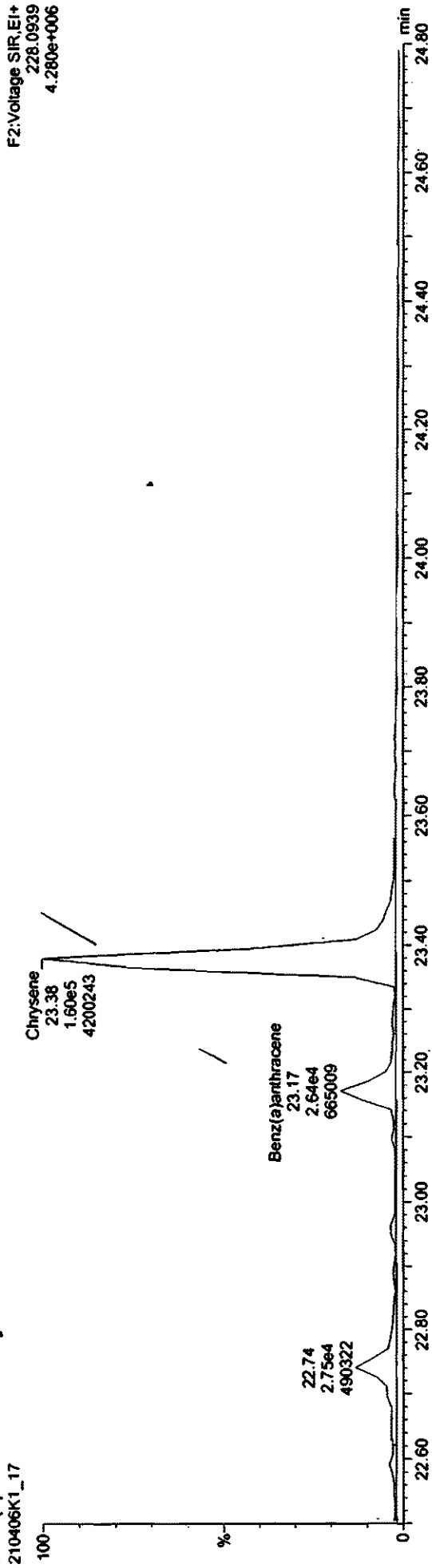
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

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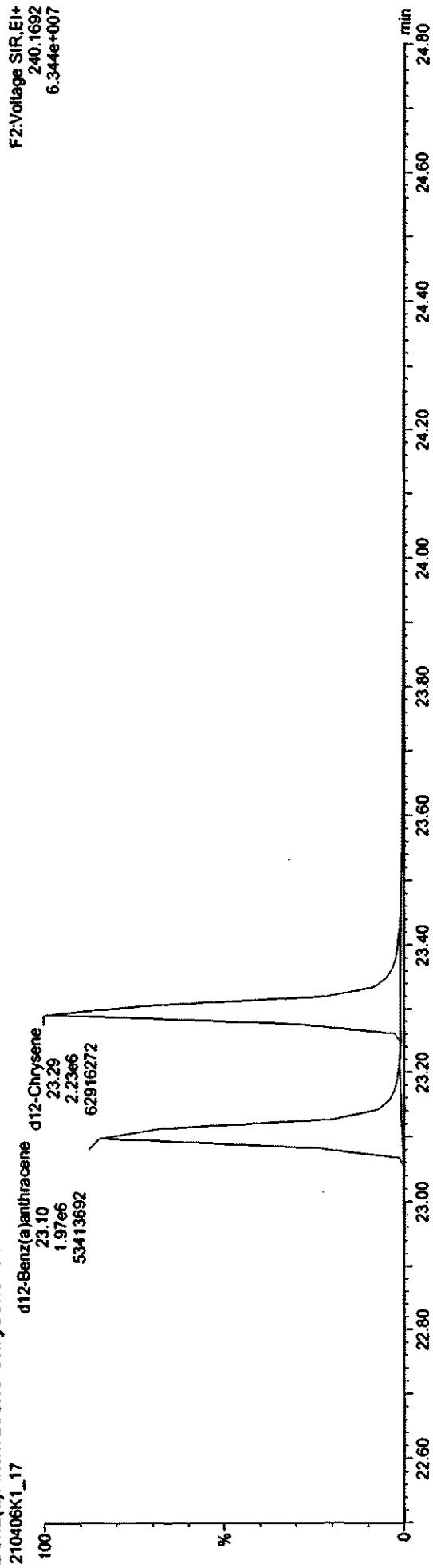
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
4.280e+006

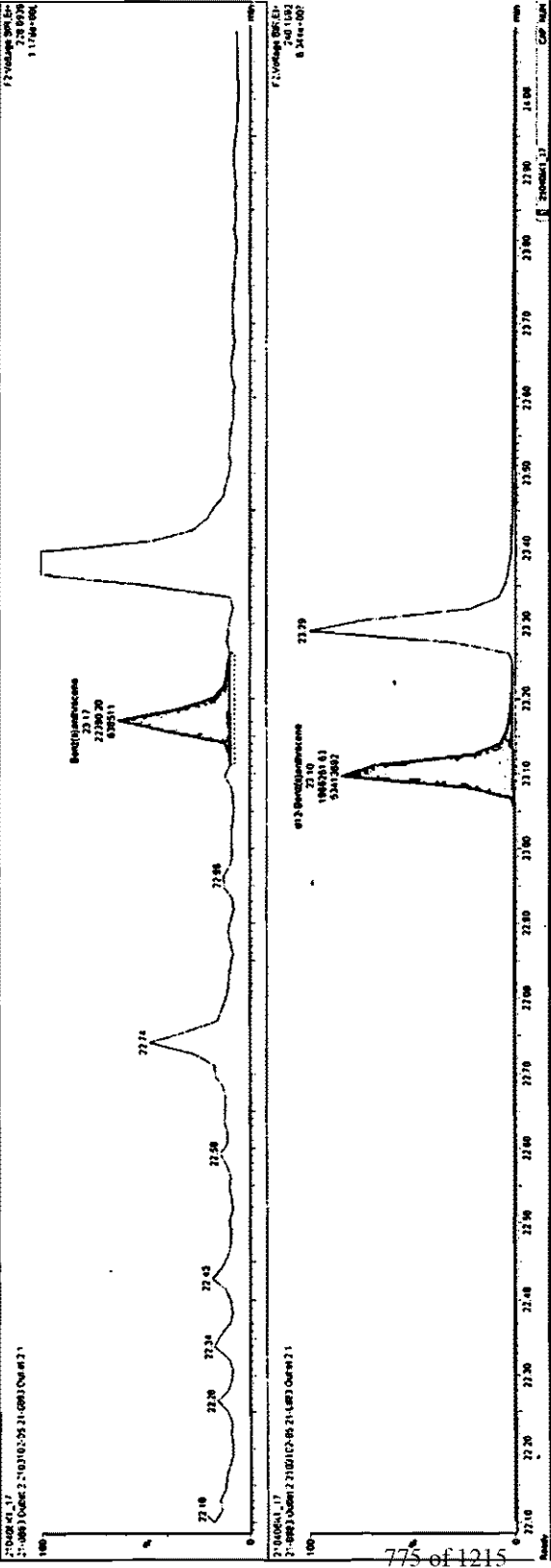


Benz(a)Anthracene-Chrysene-Iso

F2:Voltage SIR,EI+
240.1692
6.344e+007



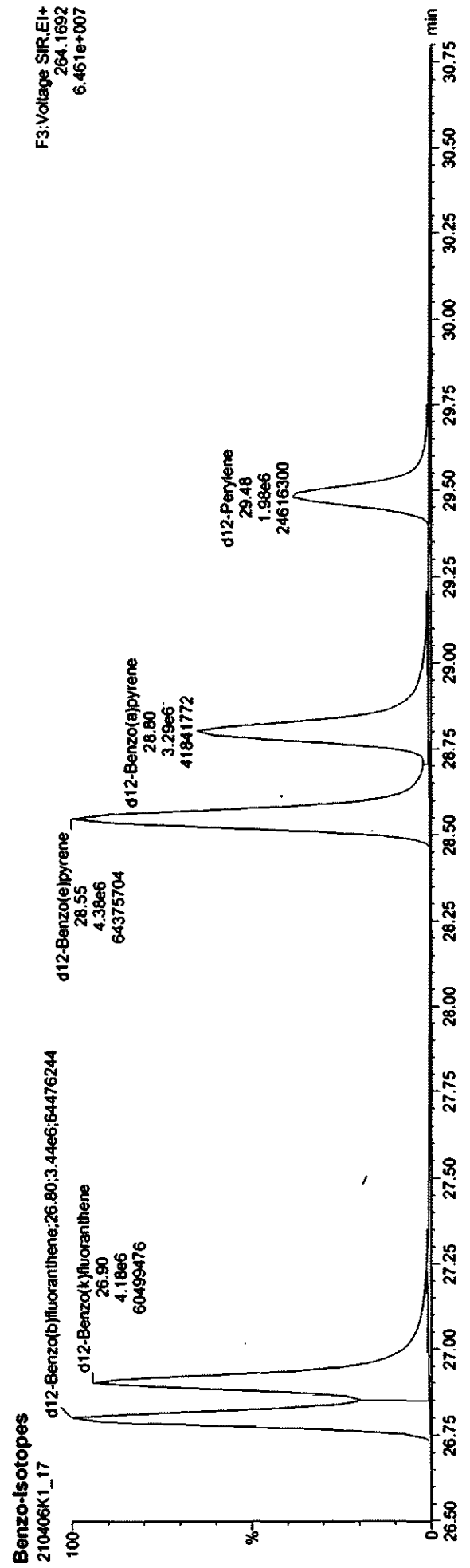
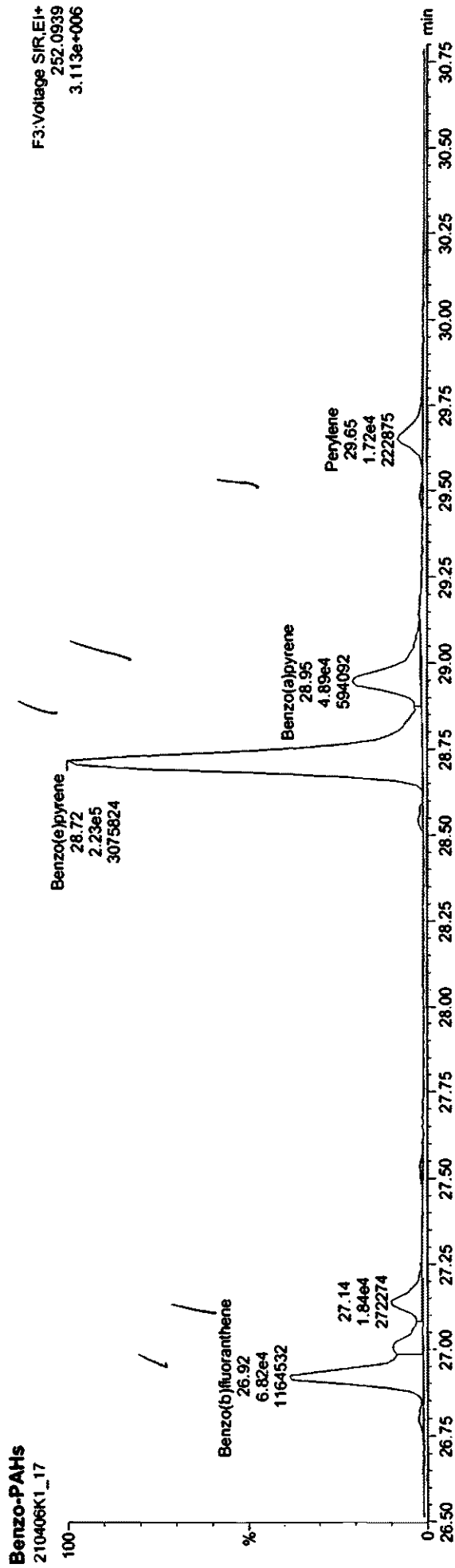
| Peak | RT | Area | Height | RT | Area | Height | RT | Area | Height |
|------|-------|--------|--------|-------|--------|--------|-------|--------|--------|
| 1 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 2 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 3 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 4 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 6 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 7 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 8 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 9 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 10 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 11 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 12 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 13 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |
| 14 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 | 22.30 | 1.80E5 | 1.00E5 |



Dataset: Untitled

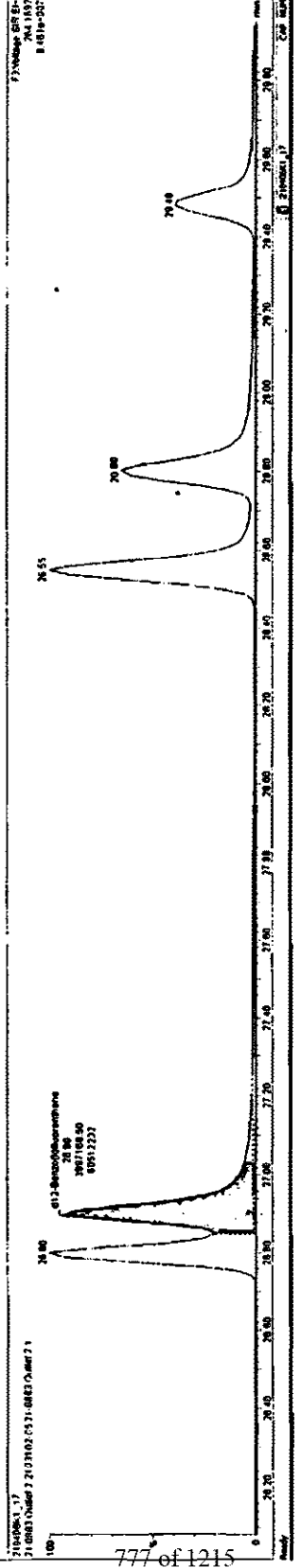
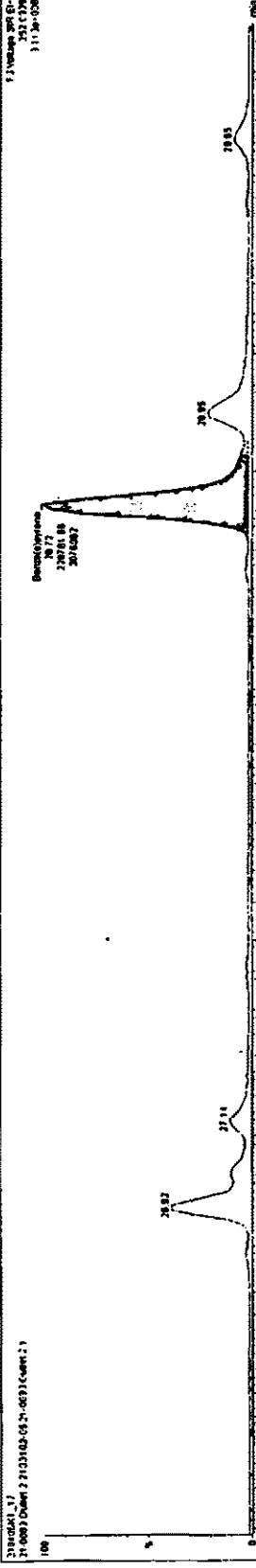
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
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Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

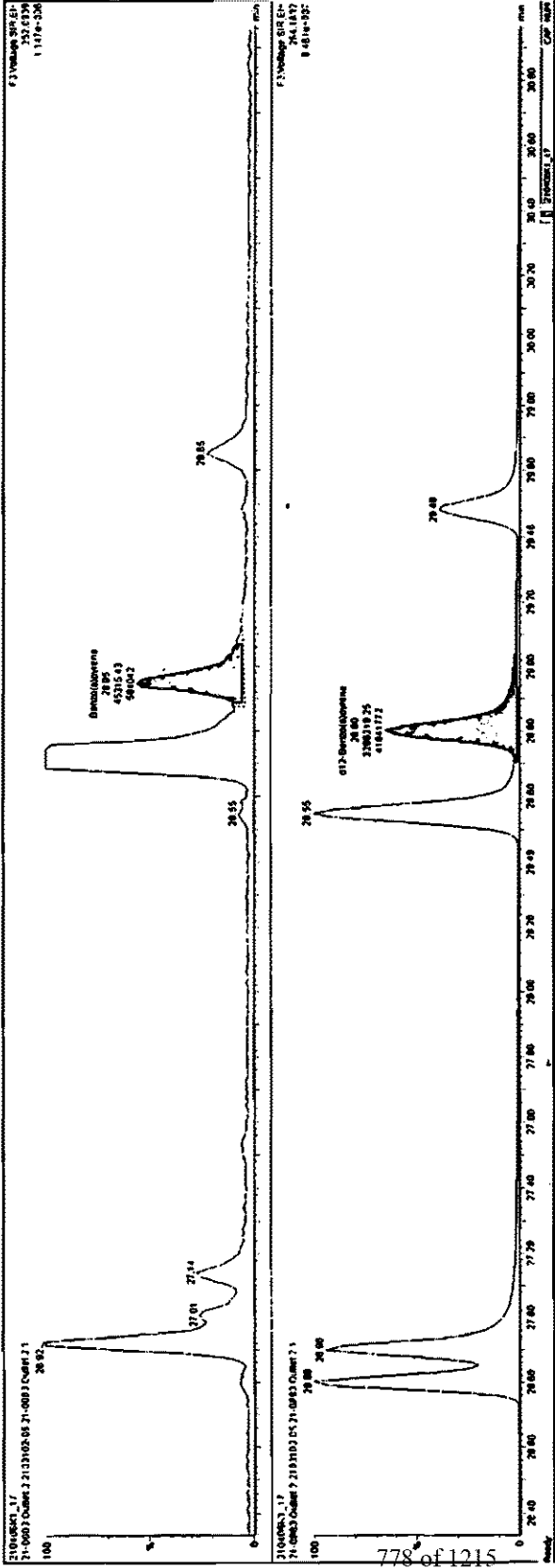


Chromatogram - [Chemical Name]

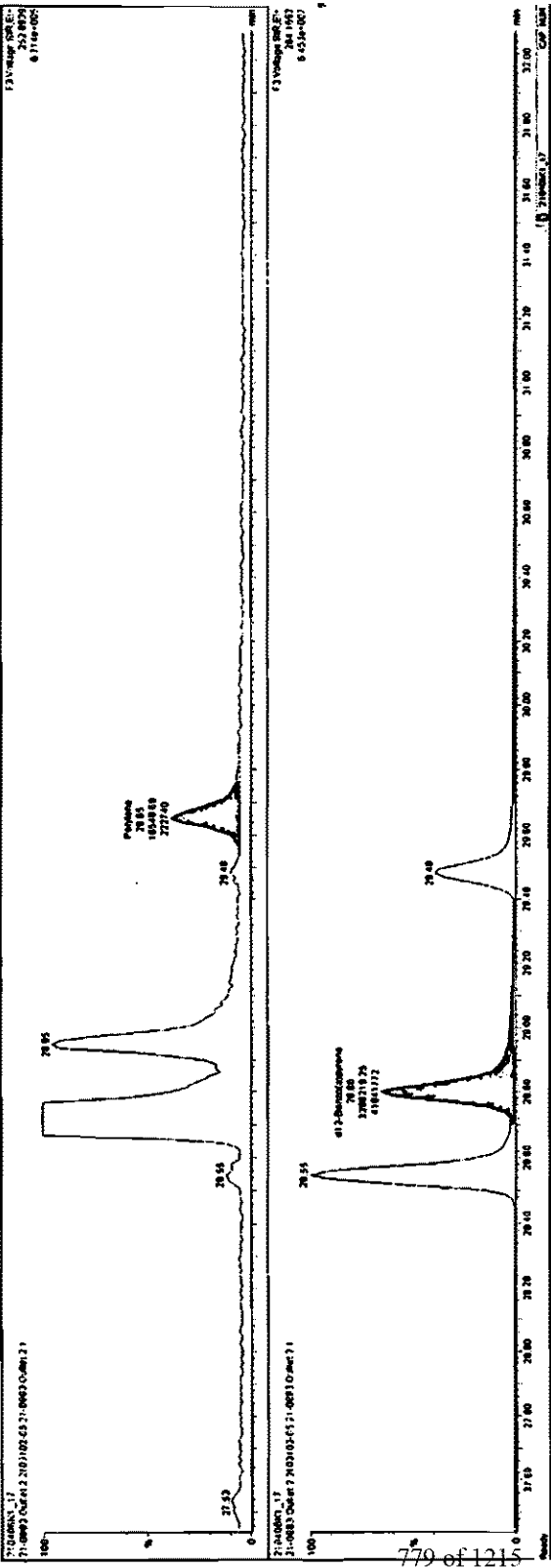
| Peak # | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Height/Width | Area/Height | Area/Height | Area/Height |
|--------|----------------------|-------|--------|-------|--------------|-------------|--------------|-------------|-------------|-------------|
| 1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| 3 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| 4 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| 5 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| 6 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| 7 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| 8 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 |
| 9 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| 10 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 11 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 |
| 12 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 |
| 13 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 |
| 14 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 |
| 15 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 |
| 16 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 |
| 17 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 | 17.00 |
| 18 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 |
| 19 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| 20 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| 21 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| 22 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| 23 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| 24 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| 25 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 | 25.00 |
| 26 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 | 26.00 |
| 27 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 | 27.00 |
| 28 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 | 28.00 |
| 29 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| 30 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 30.00 |
| 31 | 31.00 | 31.00 | 31.00 | 31.00 | 31.00 | 31.00 | 31.00 | 31.00 | 31.00 | 31.00 |
| 32 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| 33 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 | 33.00 |
| 34 | 34.00 | 34.00 | 34.00 | 34.00 | 34.00 | 34.00 | 34.00 | 34.00 | 34.00 | 34.00 |
| 35 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 | 35.00 |
| 36 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 | 36.00 |
| 37 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 | 37.00 |
| 38 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 | 38.00 |
| 39 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 | 39.00 |
| 40 | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 | 40.00 |
| 41 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 | 41.00 |
| 42 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 |
| 43 | 43.00 | 43.00 | 43.00 | 43.00 | 43.00 | 43.00 | 43.00 | 43.00 | 43.00 | 43.00 |
| 44 | 44.00 | 44.00 | 44.00 | 44.00 | 44.00 | 44.00 | 44.00 | 44.00 | 44.00 | 44.00 |
| 45 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 | 45.00 |
| 46 | 46.00 | 46.00 | 46.00 | 46.00 | 46.00 | 46.00 | 46.00 | 46.00 | 46.00 | 46.00 |
| 47 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 | 47.00 |
| 48 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 |
| 49 | 49.00 | 49.00 | 49.00 | 49.00 | 49.00 | 49.00 | 49.00 | 49.00 | 49.00 | 49.00 |
| 50 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 | 50.00 |



| Time | Area | % Area | Height | Width | RT | Height | Area | Conc. | Unit |
|------|------|--------|--------|-------|-------|--------|------|-------|------|
| 16 | 1000 | 1.00% | 27.62 | 27.62 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 17 | 1000 | 1.00% | 27.75 | 27.75 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 18 | 1000 | 1.00% | 27.88 | 27.88 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 19 | 1000 | 1.00% | 28.01 | 28.01 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 20 | 1000 | 1.00% | 28.14 | 28.14 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 21 | 1000 | 1.00% | 28.27 | 28.27 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 22 | 1000 | 1.00% | 28.40 | 28.40 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 23 | 1000 | 1.00% | 28.53 | 28.53 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 24 | 1000 | 1.00% | 28.66 | 28.66 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 25 | 1000 | 1.00% | 28.79 | 28.79 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 26 | 1000 | 1.00% | 28.92 | 28.92 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 27 | 1000 | 1.00% | 29.05 | 29.05 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 28 | 1000 | 1.00% | 29.18 | 29.18 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 29 | 1000 | 1.00% | 29.31 | 29.31 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 30 | 1000 | 1.00% | 29.44 | 29.44 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 31 | 1000 | 1.00% | 29.57 | 29.57 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 32 | 1000 | 1.00% | 29.70 | 29.70 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 33 | 1000 | 1.00% | 29.83 | 29.83 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 34 | 1000 | 1.00% | 29.96 | 29.96 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 35 | 1000 | 1.00% | 30.09 | 30.09 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 36 | 1000 | 1.00% | 30.22 | 30.22 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 37 | 1000 | 1.00% | 30.35 | 30.35 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 38 | 1000 | 1.00% | 30.48 | 30.48 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 39 | 1000 | 1.00% | 30.61 | 30.61 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 40 | 1000 | 1.00% | 30.74 | 30.74 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 41 | 1000 | 1.00% | 30.87 | 30.87 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 42 | 1000 | 1.00% | 31.00 | 31.00 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 43 | 1000 | 1.00% | 31.13 | 31.13 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 44 | 1000 | 1.00% | 31.26 | 31.26 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 45 | 1000 | 1.00% | 31.39 | 31.39 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 46 | 1000 | 1.00% | 31.52 | 31.52 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 47 | 1000 | 1.00% | 31.65 | 31.65 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 48 | 1000 | 1.00% | 31.78 | 31.78 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 49 | 1000 | 1.00% | 31.91 | 31.91 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 50 | 1000 | 1.00% | 32.04 | 32.04 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 51 | 1000 | 1.00% | 32.17 | 32.17 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 52 | 1000 | 1.00% | 32.30 | 32.30 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 53 | 1000 | 1.00% | 32.43 | 32.43 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 54 | 1000 | 1.00% | 32.56 | 32.56 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 55 | 1000 | 1.00% | 32.69 | 32.69 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 56 | 1000 | 1.00% | 32.82 | 32.82 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 57 | 1000 | 1.00% | 32.95 | 32.95 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 58 | 1000 | 1.00% | 33.08 | 33.08 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 59 | 1000 | 1.00% | 33.21 | 33.21 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 60 | 1000 | 1.00% | 33.34 | 33.34 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 61 | 1000 | 1.00% | 33.47 | 33.47 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 62 | 1000 | 1.00% | 33.60 | 33.60 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 63 | 1000 | 1.00% | 33.73 | 33.73 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 64 | 1000 | 1.00% | 33.86 | 33.86 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 65 | 1000 | 1.00% | 33.99 | 33.99 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 66 | 1000 | 1.00% | 34.12 | 34.12 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 67 | 1000 | 1.00% | 34.25 | 34.25 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 68 | 1000 | 1.00% | 34.38 | 34.38 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 69 | 1000 | 1.00% | 34.51 | 34.51 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 70 | 1000 | 1.00% | 34.64 | 34.64 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 71 | 1000 | 1.00% | 34.77 | 34.77 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 72 | 1000 | 1.00% | 34.90 | 34.90 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 73 | 1000 | 1.00% | 35.03 | 35.03 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 74 | 1000 | 1.00% | 35.16 | 35.16 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 75 | 1000 | 1.00% | 35.29 | 35.29 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 76 | 1000 | 1.00% | 35.42 | 35.42 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 77 | 1000 | 1.00% | 35.55 | 35.55 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 78 | 1000 | 1.00% | 35.68 | 35.68 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 79 | 1000 | 1.00% | 35.81 | 35.81 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 80 | 1000 | 1.00% | 35.94 | 35.94 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 81 | 1000 | 1.00% | 36.07 | 36.07 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 82 | 1000 | 1.00% | 36.20 | 36.20 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 83 | 1000 | 1.00% | 36.33 | 36.33 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 84 | 1000 | 1.00% | 36.46 | 36.46 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 85 | 1000 | 1.00% | 36.59 | 36.59 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 86 | 1000 | 1.00% | 36.72 | 36.72 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 87 | 1000 | 1.00% | 36.85 | 36.85 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 88 | 1000 | 1.00% | 36.98 | 36.98 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 89 | 1000 | 1.00% | 37.11 | 37.11 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 90 | 1000 | 1.00% | 37.24 | 37.24 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 91 | 1000 | 1.00% | 37.37 | 37.37 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 92 | 1000 | 1.00% | 37.50 | 37.50 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 93 | 1000 | 1.00% | 37.63 | 37.63 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 94 | 1000 | 1.00% | 37.76 | 37.76 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 95 | 1000 | 1.00% | 37.89 | 37.89 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 96 | 1000 | 1.00% | 38.02 | 38.02 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 97 | 1000 | 1.00% | 38.15 | 38.15 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 98 | 1000 | 1.00% | 38.28 | 38.28 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 99 | 1000 | 1.00% | 38.41 | 38.41 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |
| 100 | 1000 | 1.00% | 38.54 | 38.54 | 1.000 | 1.00 | 1.00 | 1.00 | 0.10 |



| Peak | RT | Area | Height | Width | Skew | Symmetry | Conc | Label |
|------|-------|----------|----------|-------|------|----------|------|-------|
| 1 | 27.42 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 27.42 |
| 2 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 3 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 4 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 5 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 6 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 7 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 8 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 9 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 10 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 11 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 12 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 13 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 14 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 15 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 16 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 17 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 18 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 19 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 20 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 21 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 22 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 23 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 24 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 25 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 26 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 27 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 28 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 29 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 30 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 31 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 32 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 33 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 34 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 35 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 36 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 37 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 38 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 39 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 40 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 41 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 42 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 43 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 44 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 45 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 46 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 47 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 48 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 49 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |
| 50 | 28.55 | 1.00E+05 | 1.00E+05 | 0.10 | 1.00 | 1.00 | 1.00 | 28.55 |



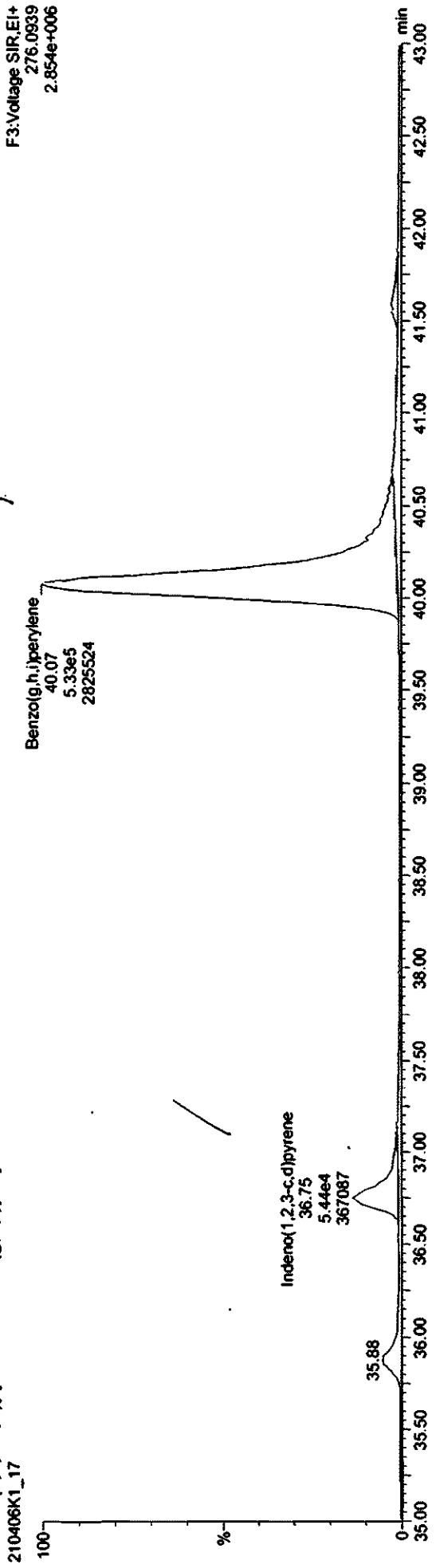
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

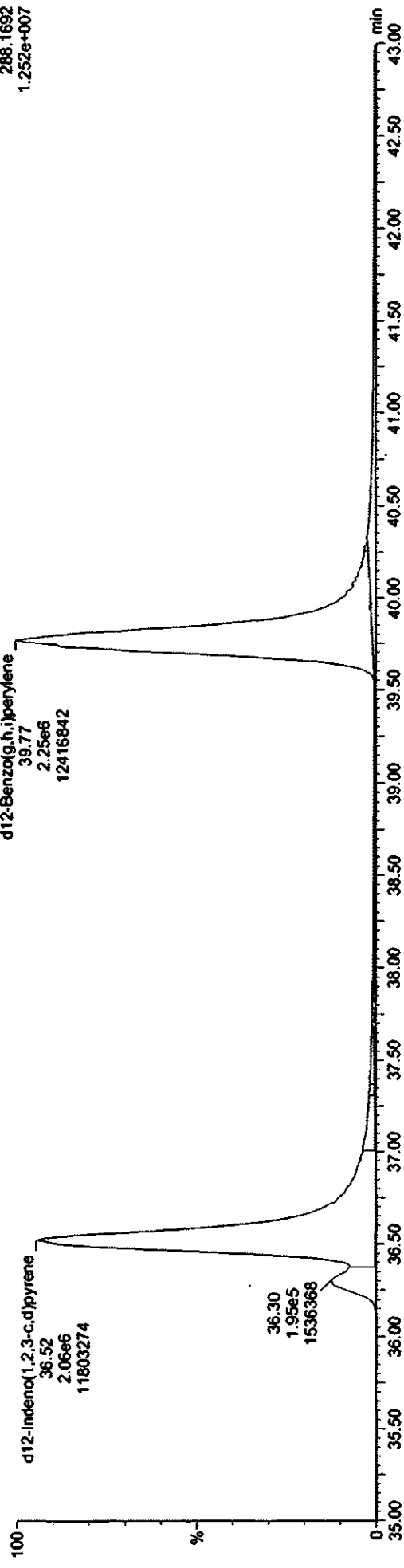
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
2.854e+006

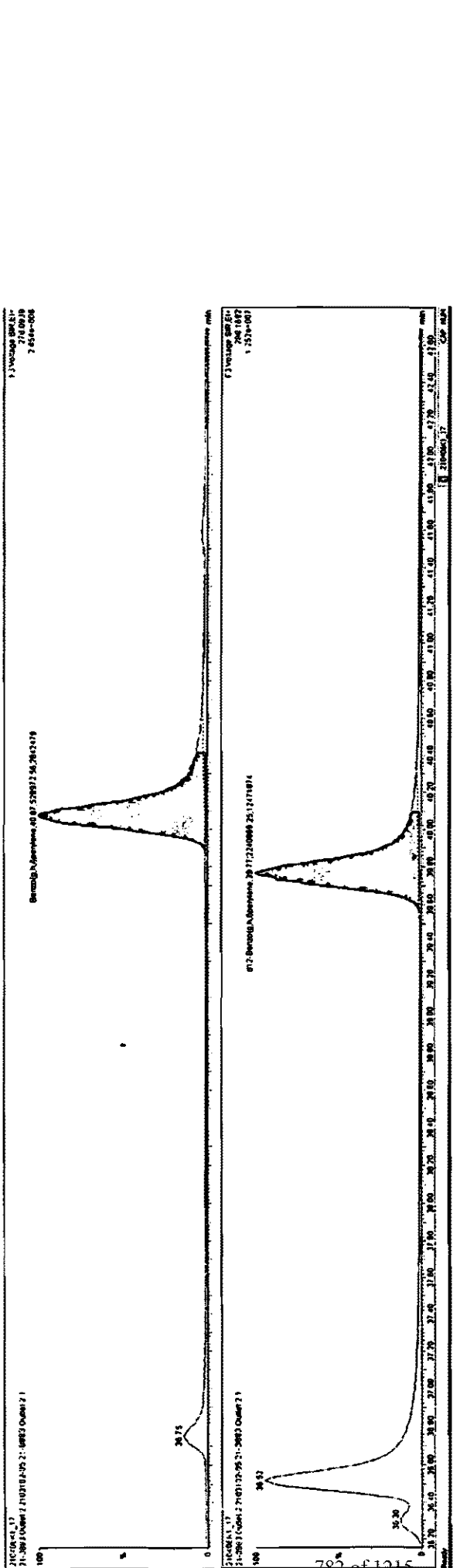


d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
288.1692
1.252e+007



| RT | Area | Height | Width | Area% | Height% | Width% | Conc | Label |
|-------|--------|--------|-------|-------|---------|--------|-------|-------|
| 34.31 | 12000 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 34.31 |
| 36.30 | 10000 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 36.30 |
| 39.75 | 100000 | 10000 | 1.00 | 10.00 | 10.00 | 10.00 | 10.00 | 39.75 |

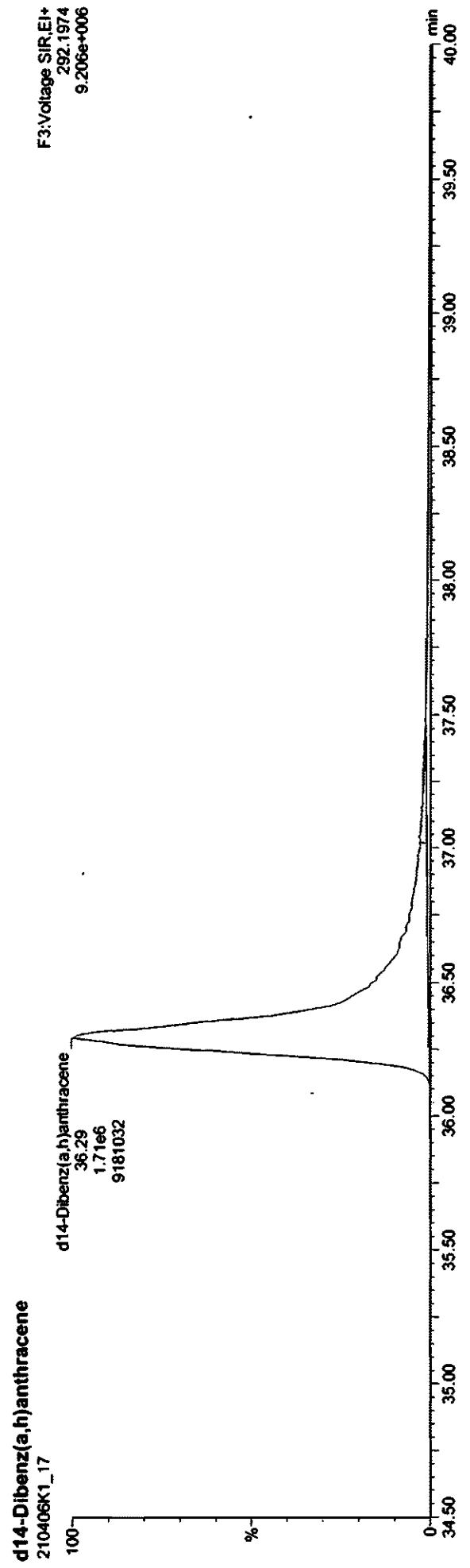
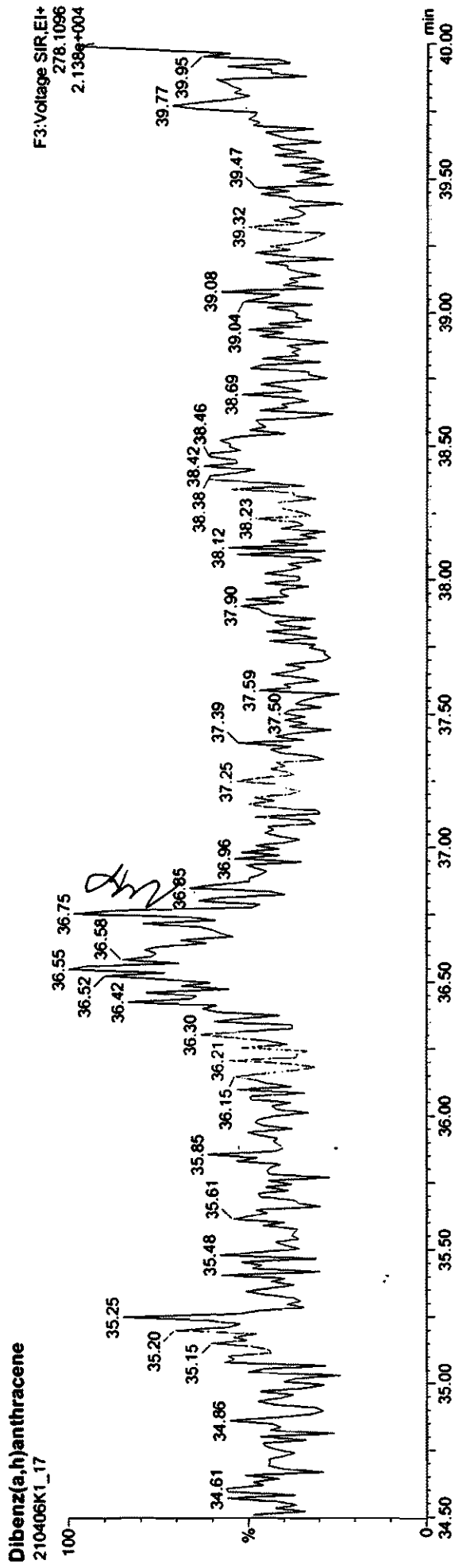


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_17, Date: 06-Apr-2021, Time: 23:44:05, ID: 2103102-05 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-10.qld

Last Altered: Wednesday, April 07, 2021 12:16:54 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:17:59 PM Pacific Daylight Time

Handwritten: M. J. J. W. J. 07/08/2021

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\lb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

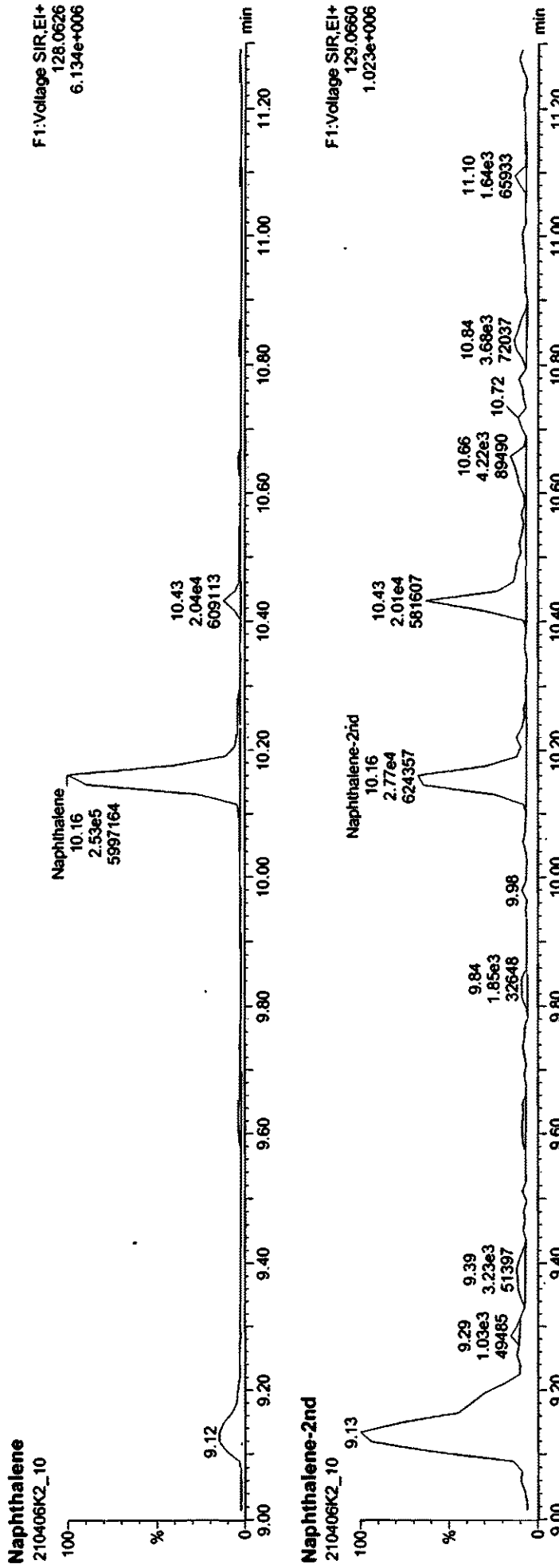
Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

| L # | Name | Resp | IS Resp | RFR | w/wol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|-----|---------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|-------|
| 3 | 2-Methylnaphthalene | 2.30e5 | 7.26e4 | 1.38 | 1.000 | 11.60 | 11.61 | 0.794 | 0.795 | NO | 461 | | 3.02 |
| 5 | Acenaphthene | 2.84e5 | 7.26e4 | 1.10 | 1.000 | 14.68 | 14.69 | 1.006 | 1.006 | NO | 709 | | 23.7 |
| 6 | Fluorene | 6.85e5 | 6.28e4 | 1.15 | 1.000 | 15.92 | 15.92 | 1.006 | 1.006 | NO | 1890 | | 28.6 |
| 7 | Phenanthrene | 1.36e6 | 8.01e4 | 1.19 | 1.000 | 18.32 | 18.32 | 1.002 | 1.002 | NO | 2850 | | 16.7 |
| 24 | d10-Acenaphthene | 7.26e4 | 1.38e5 | 0.594 | 1.000 | 14.60 | 14.60 | 1.226 | 1.225 | NO | 177 | 88.4 | 0.567 |
| 25 | d10-Fluorene | 6.28e4 | 1.38e5 | 0.563 | 1.000 | 15.84 | 15.83 | 1.330 | 1.329 | NO | 161 | 80.7 | 0.596 |
| 26 | d10-Phenanthrene | 8.01e4 | 1.38e5 | 0.735 | 1.000 | 18.26 | 18.28 | 1.533 | 1.535 | NO | 158 | 78.8 | 0.480 |
| 40 | d10-Pyrene | 1.38e5 | 1.38e5 | 1.00 | 1.000 | 20.81 | 20.79 | 1.000 | 1.000 | NO | 200 | 100 | 0.163 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

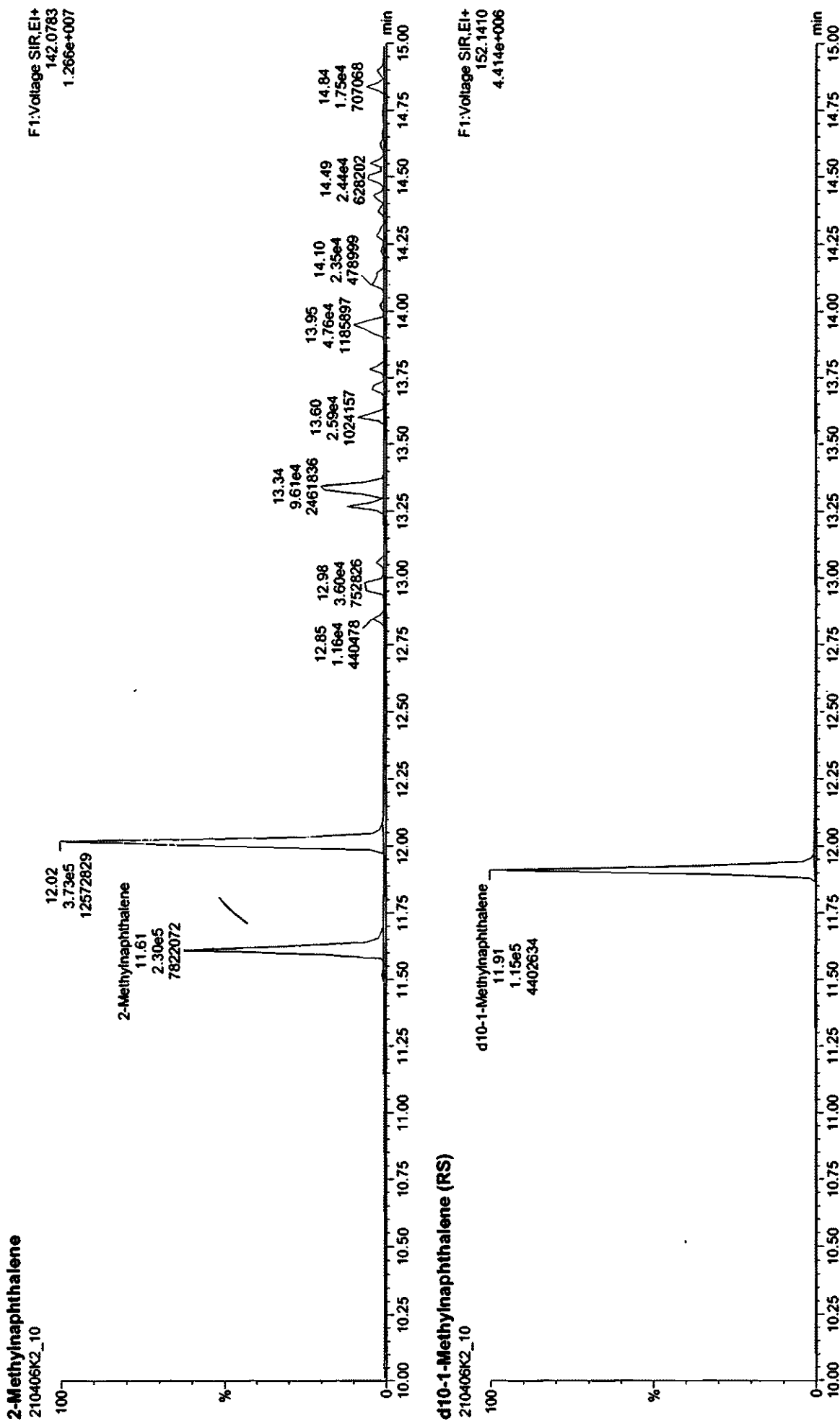
Method: U:\VG11.PROMethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\lb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11
Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2.1, Description: 21-0883 Outlet 2



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

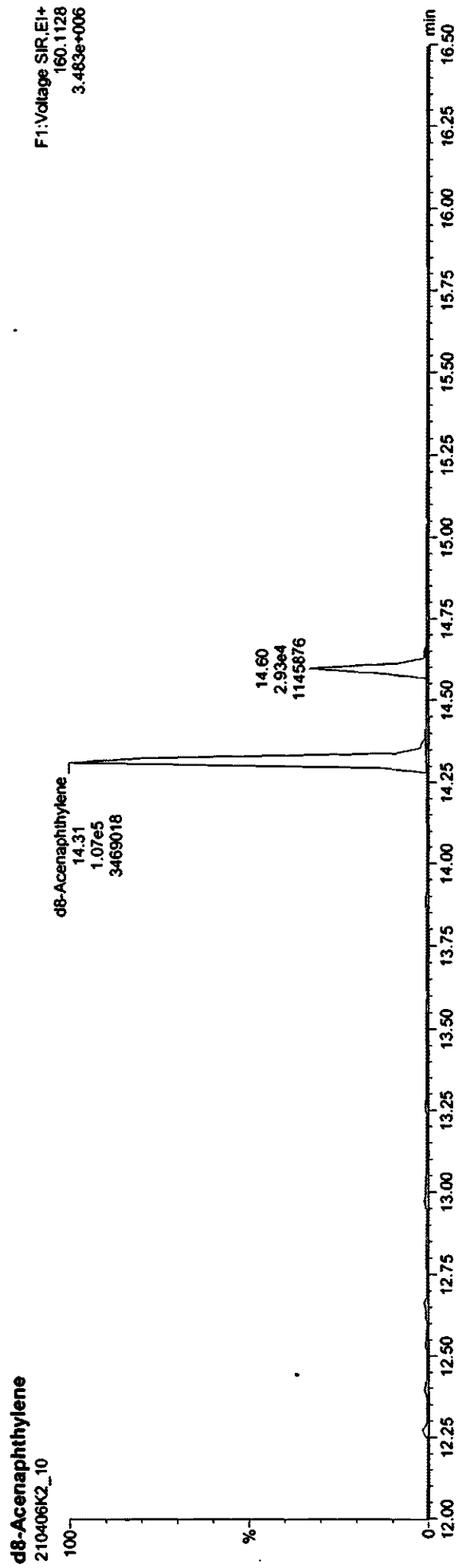
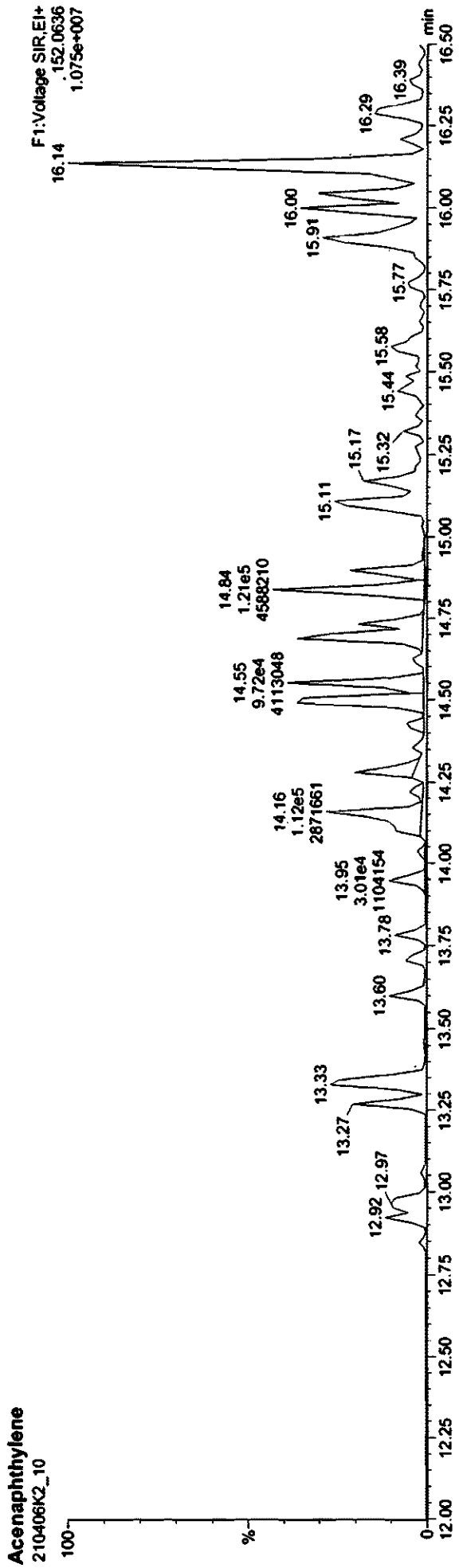


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

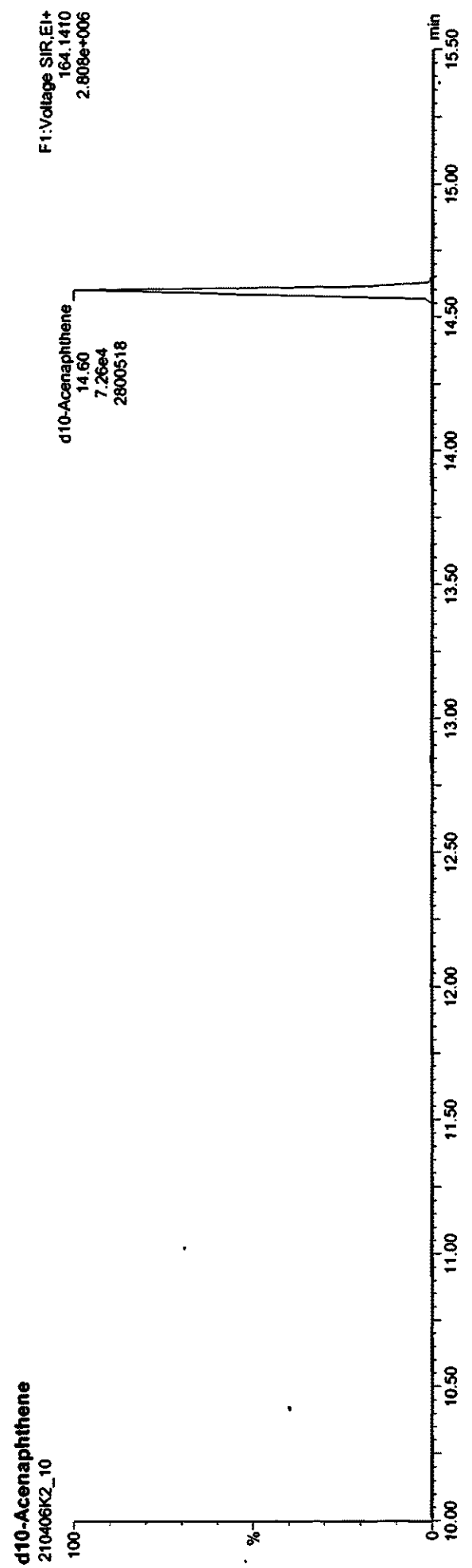
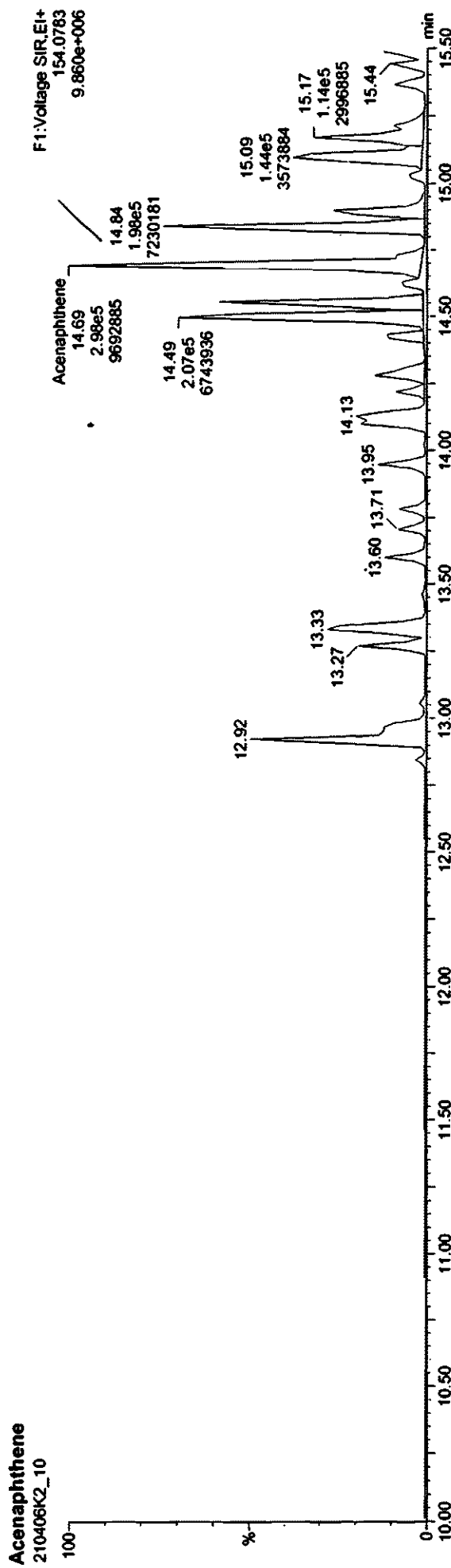
Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

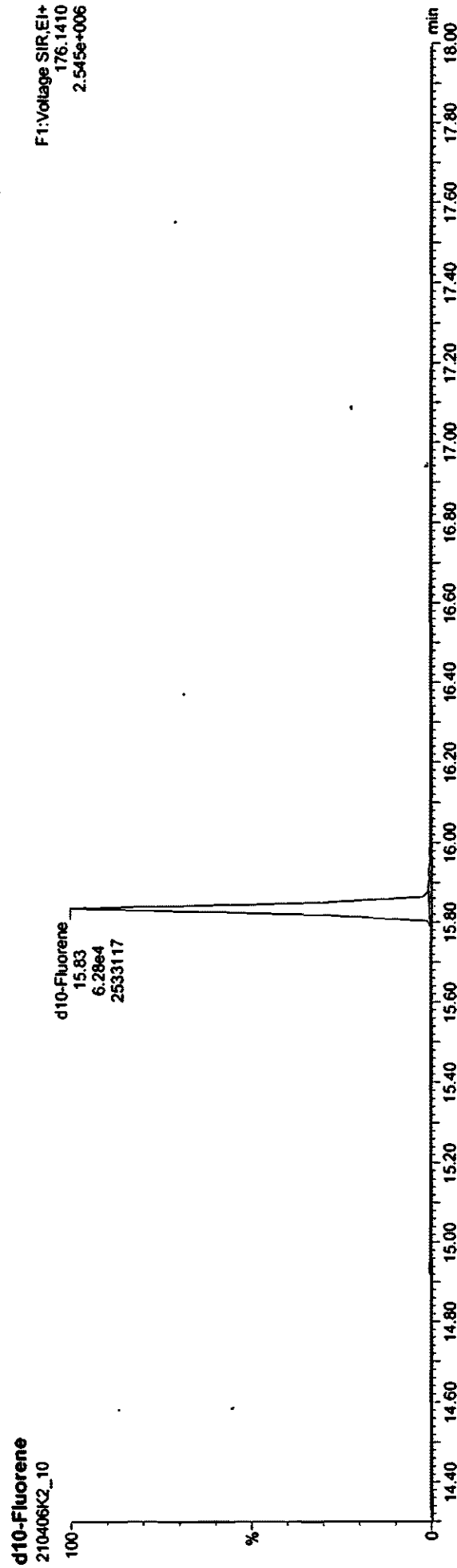
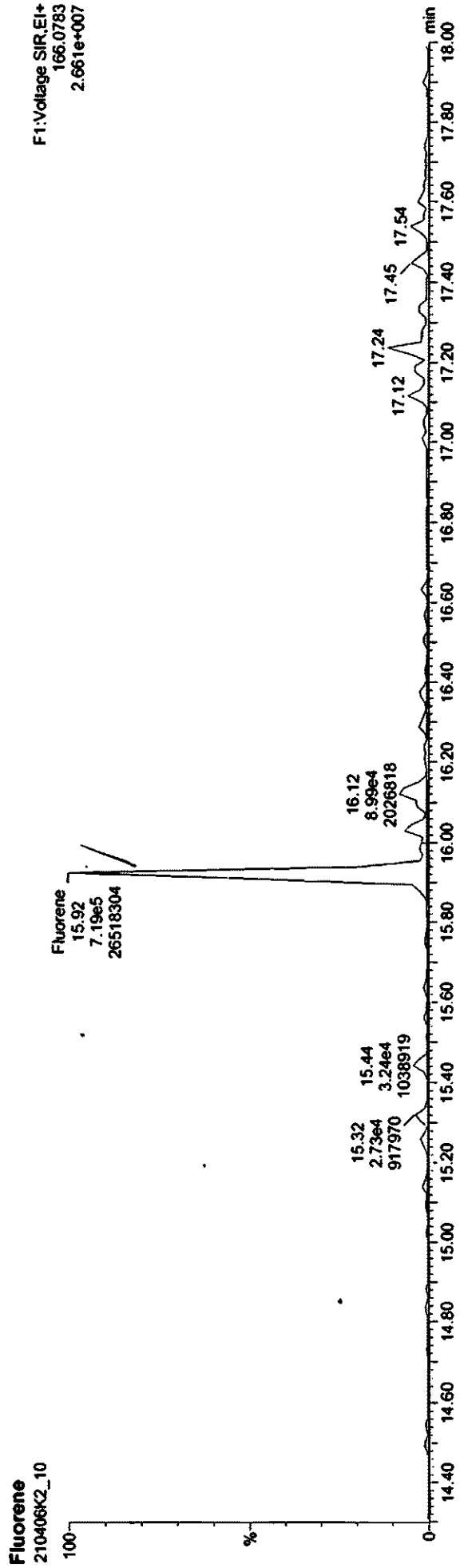


Quantify Sample Report
Vista Analytical Laboratory

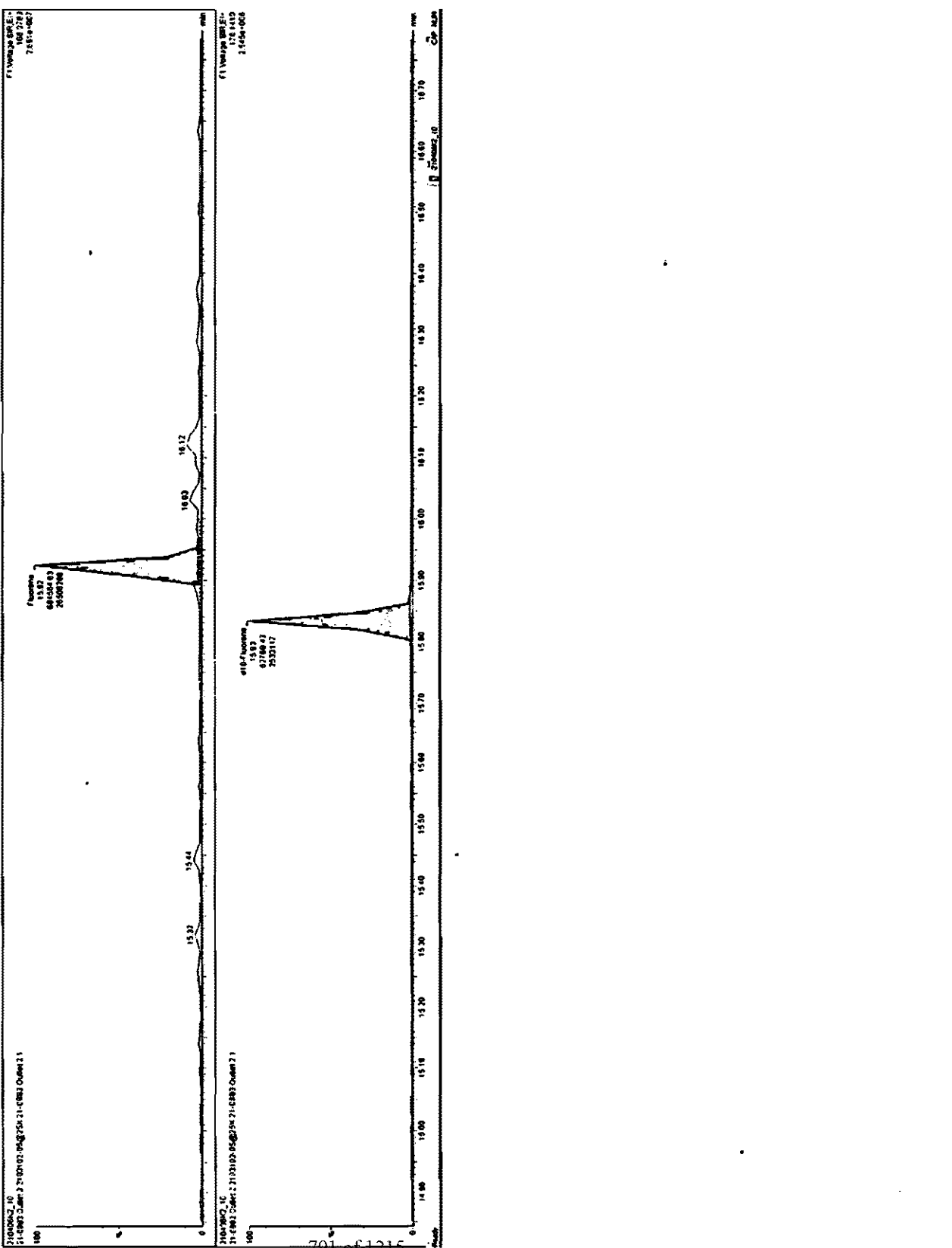
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2



| Peak | Retention Time | Area | Height | FWHM | Resolution | Integration | Integration | Integration | Integration |
|------|----------------|--------|--------|-------|------------|-------------|-------------|-------------|-------------|
| 1 | 18.53 | 11588 | 1727 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2 | 18.83 | 11588 | 1727 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 3 | 19.12 | 11588 | 1727 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 4 | 15.87 | 616246 | 26507 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 5 | 15.87 | 417467 | 25321 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |



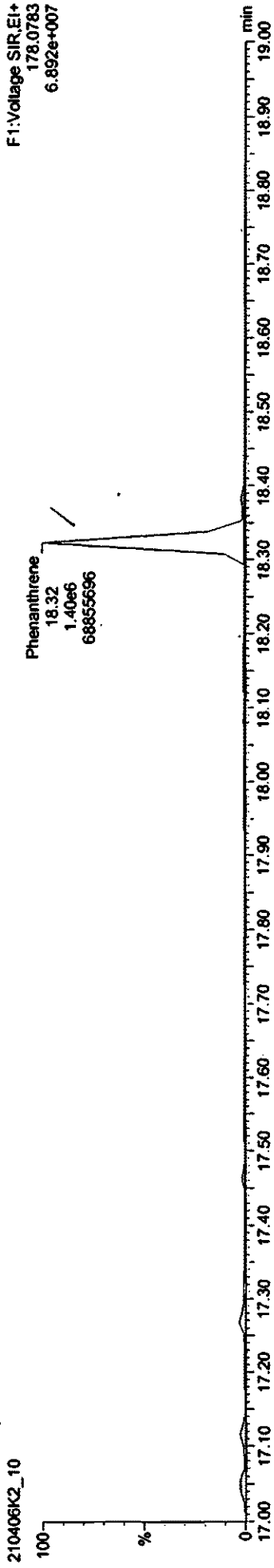
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

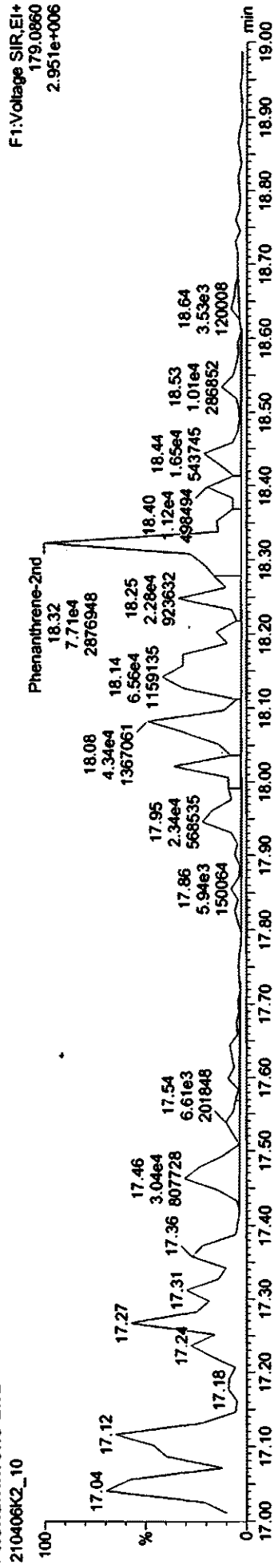
Phenanthrene; Anthracene

F1:Voltage SIR,EI+
178.0783
6.892e+007



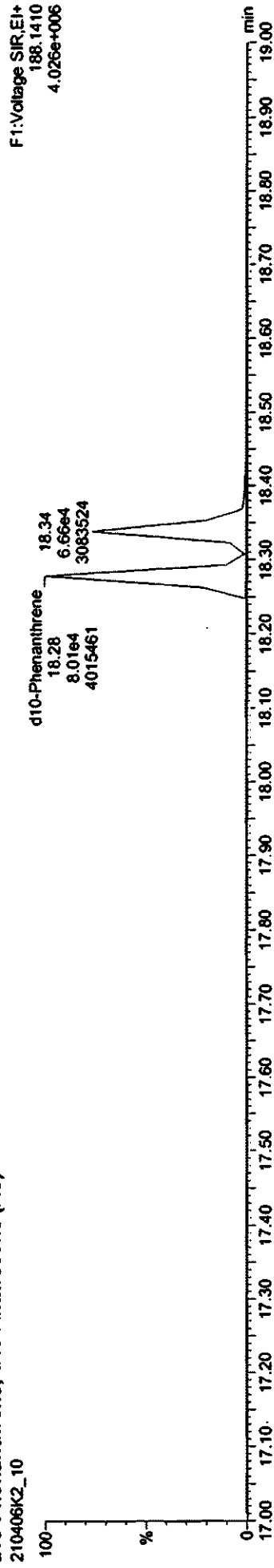
Phenanthrene-2nd

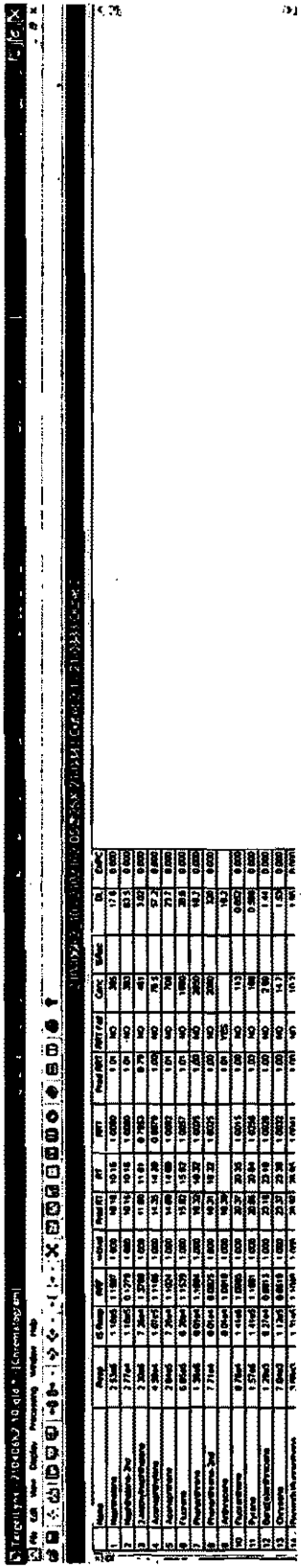
F1:Voltage SIR,EI+
179.0860
2.951e+006



d10-Phenanthrene; d10-Anthracene (AS)

F1:Voltage SIR,EI+
188.1410
4.026e+006





| Time | Area | Height | Width | Area% | Height% | Width% | Height | Area | Height | Width | Area% | Height% | Width% |
|-------|-------|--------|-------|-------|---------|--------|--------|-------|--------|-------|-------|---------|--------|
| 17.46 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 | 1150 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 |
| 17.37 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 | 1150 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 |
| 17.46 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 | 1150 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 |
| 18.24 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 | 1150 | 17550 | 1150 | 0.15 | 1.00 | 100 | 100 |

Quantify Sample Report
Vista Analytical Laboratory

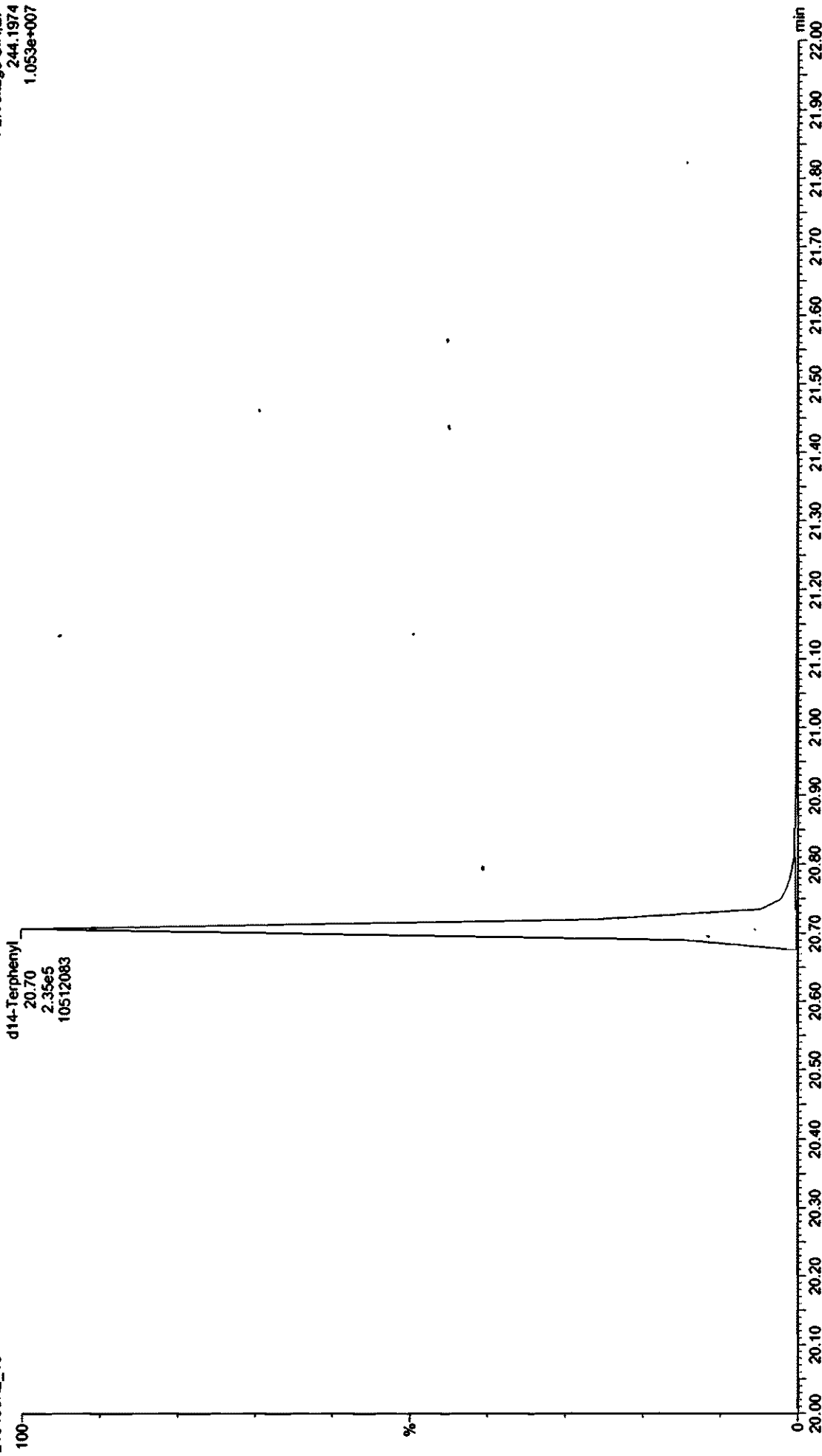
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

d14-Terphenyl (PS)
210406K2_10

F2: Voltage SIR, EI+
244.1974
1.053e+007



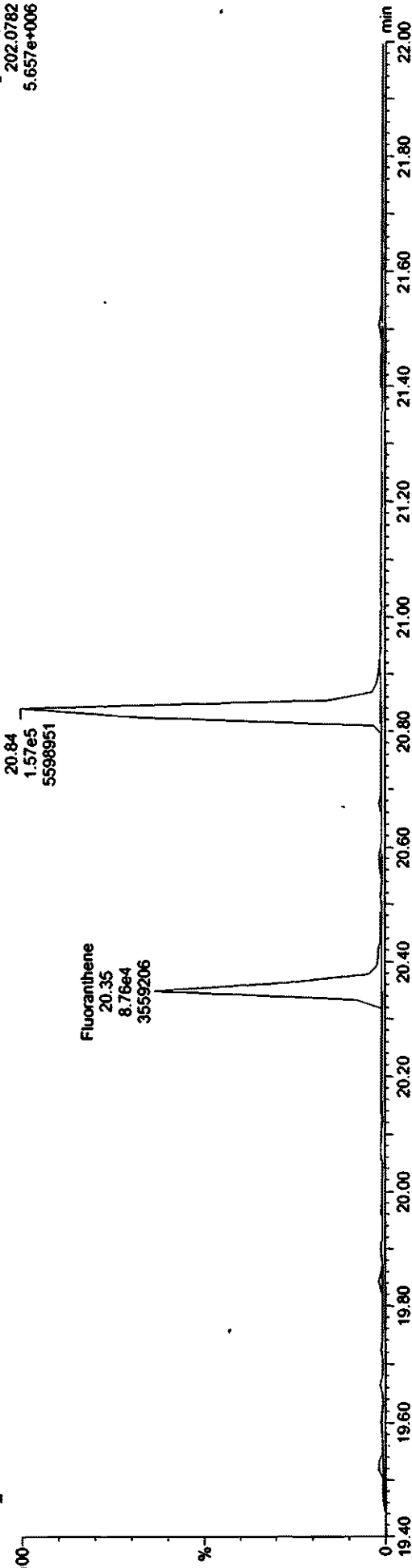
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

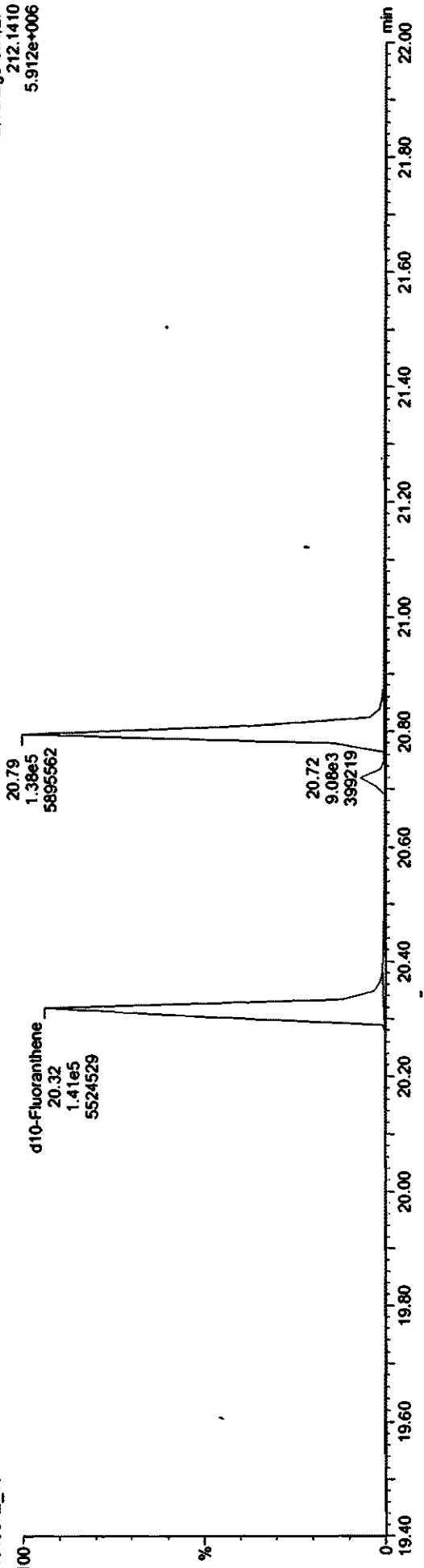
Fluoranthene; Pyrene
210406K2_10

F2:Voltage SIR,EI+
202.0782
5.657e+006



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
5.912e+006



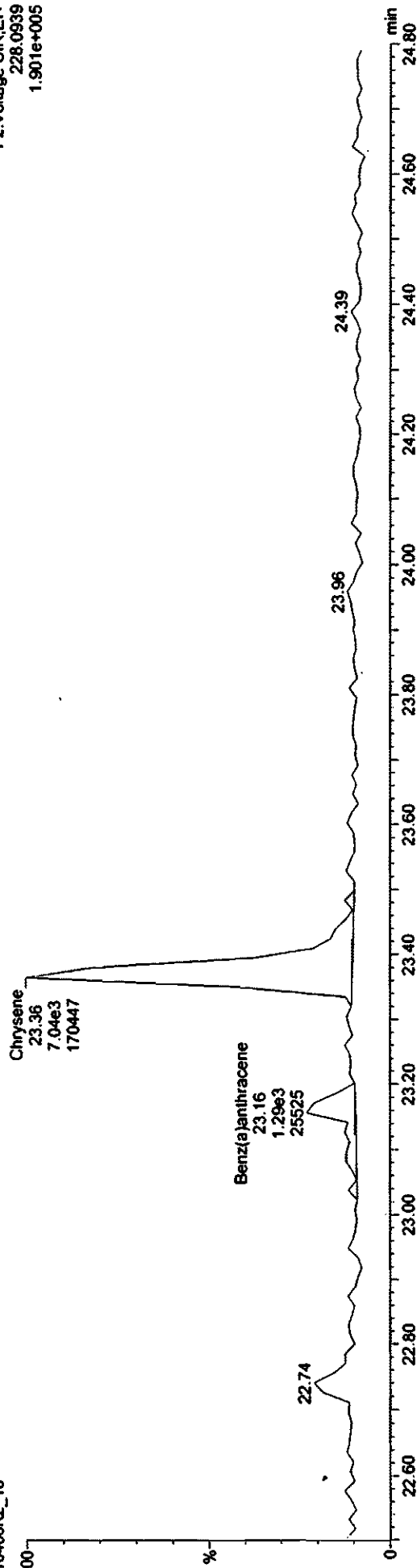
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

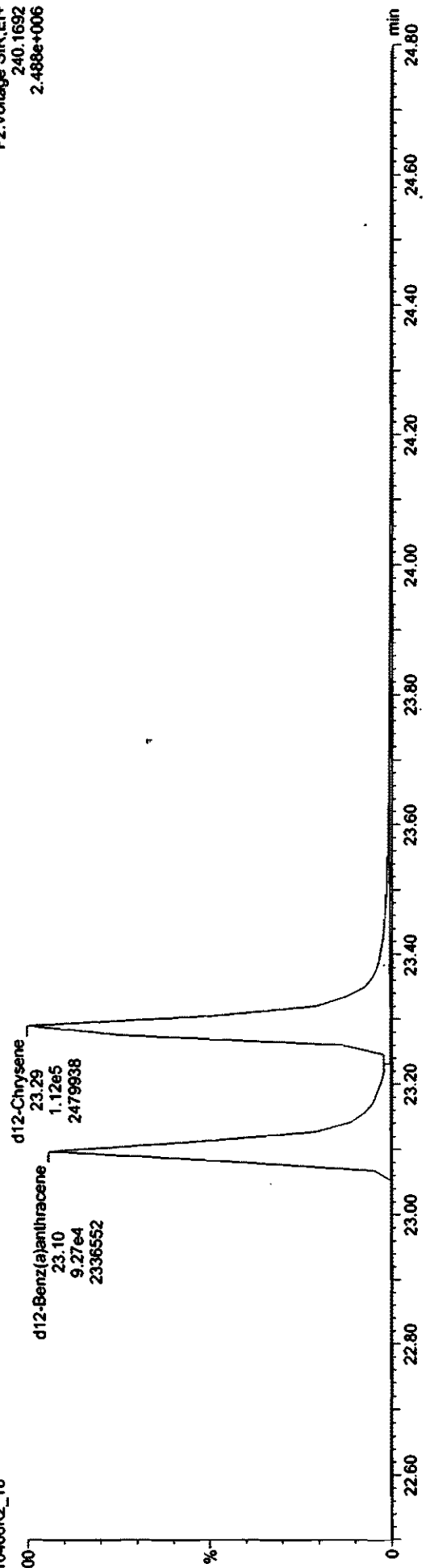
Benz(a)Anthracene-Chrysene
210406K2_10

F2:Voltage SIR,EI+
228.0939
1.901e+005



Benz(a)Anthracene-Chrysene-Iso
210406K2_10

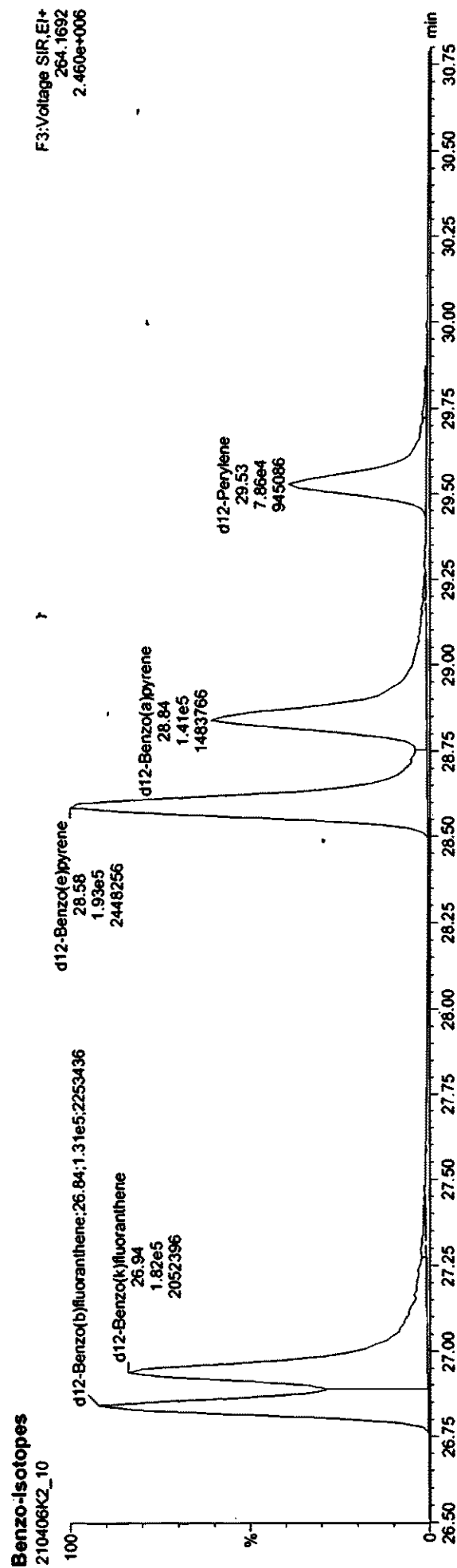
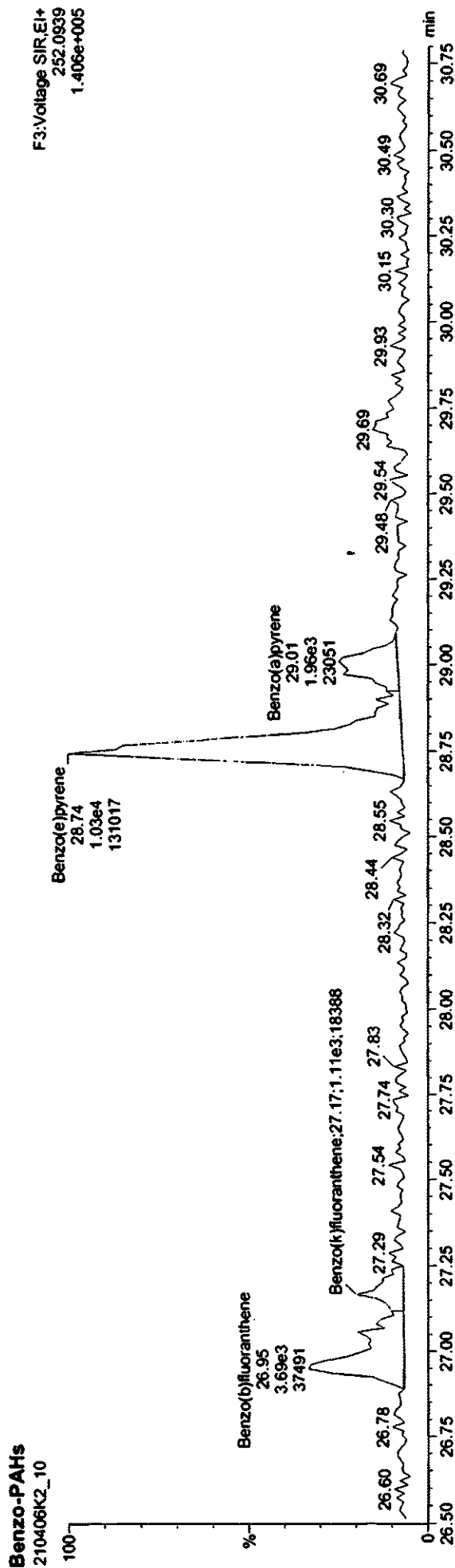
F2:Voltage SIR,EI+
240.1692
2.488e+006



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2



Quantify Sample Report
Vista Analytical Laboratory

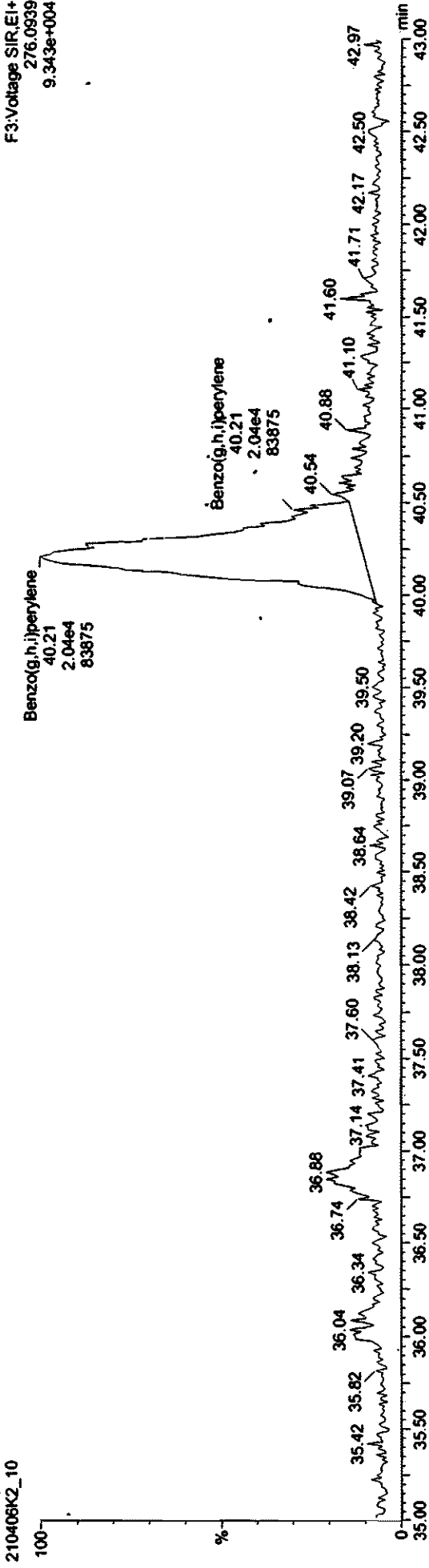
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2

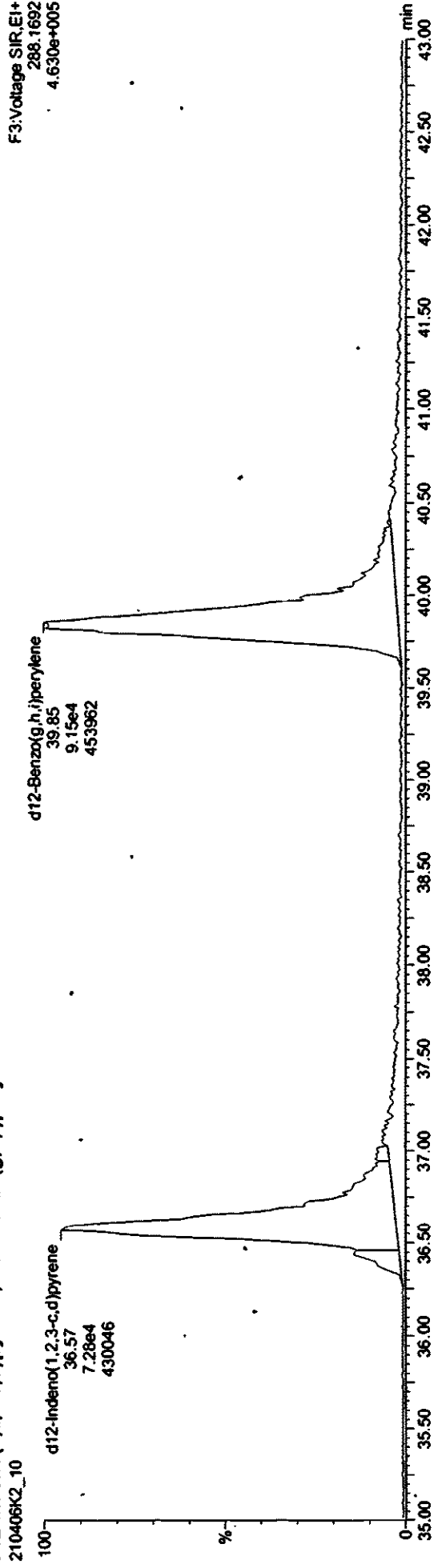
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
9.343e+004



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

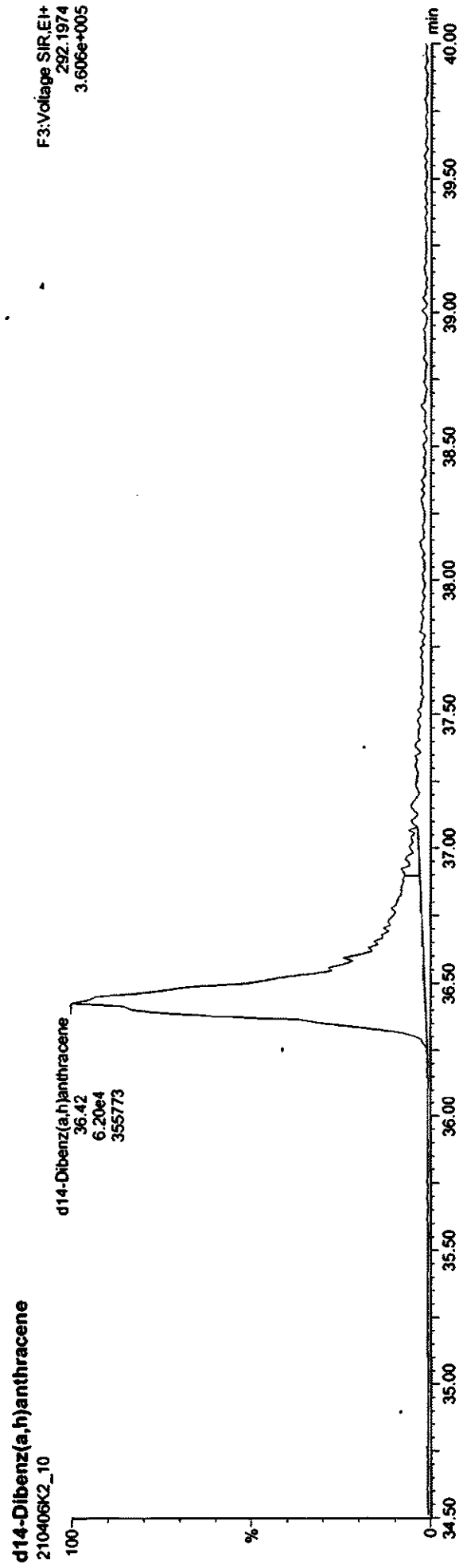
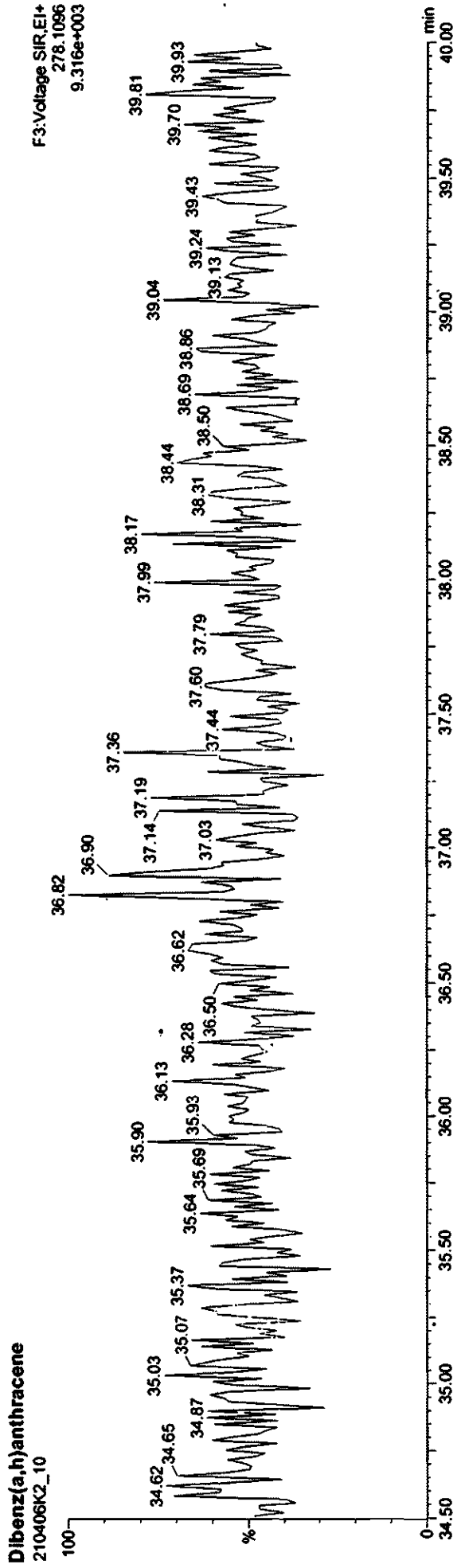
F3:Voltage SIR,EI+
288.1692
4.630e+005



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:15:26 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:15:35 PM Pacific Daylight Time

Name: 210406K2_10, Date: 07-Apr-2021, Time: 09:09:23, ID: 2103102-05@25X 21-0883 Outlet 2 1, Description: 21-0883 Outlet 2



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-18.qld

Last Altered: Wednesday, April 07, 2021 10:14:55 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 10:15:35 AM Pacific Daylight Time

Hr 4-7-2021
Ksed.1

04/08/2021

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

| Peak Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|-----------------------------|--------|---------|--------|-------|---------|-------|---------|-------|---------|------|------|--------|
| 1 Naphthalene | 2.42e6 | 1.64e6 | 1.16 | 1.000 | 10.17 | 10.17 | 1.006 | 1.006 | NO | 254 | | 20.3 |
| 2 Naphthalene-2nd | 2.66e5 | 1.64e6 | 0.128 | 1.000 | 10.17 | 10.18 | 1.006 | 1.006 | NO | 298 | | 62.1 |
| 3 2-Methylnaphthalene | 2.56e6 | 9.98e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 373 | | 5.95 |
| 4 Acenaphthylene | 1.59e5 | 1.68e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 16.9 | | 58.5 |
| 5 Acenaphthene | 3.87e6 | 9.98e5 | 1.10 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | NO | 703 | | 112 |
| 6 Fluorene | 9.94e6 | 1.05e6 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 1640 | | 31.2 |
| 7 Phenanthrene | 1.78e7 | 1.37e6 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 2190 | | 17.2 |
| 8 Phenanthrene-2nd | 7.22e5 | 1.37e6 | 0.0925 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 1740 | | 433 |
| 9 Anthracene | 4.38e5 | 1.37e6 | 1.09 | 1.000 | 18.39 | 18.40 | 1.005 | 1.006 | NO | 58.6 | | 18.8 |
| 10 Fluoranthene | 1.36e6 | 2.73e6 | 1.10 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 90.5 | | 1.81 |
| 11 Pyrene | 2.75e6 | 2.73e6 | 1.20 | 1.000 | 20.87 | 20.85 | 1.026 | 1.026 | NO | 168 | | 1.66 |
| 12 Benz(a)anthracene | 2.01e4 | 2.11e6 | 0.961 | 1.000 | 23.16 | 23.17 | 1.003 | 1.003 | NO | 1.98 | | 0.137 |
| 13 Chrysene | 1.34e5 | 2.28e6 | 0.852 | 1.000 | 23.38 | 23.38 | 1.003 | 1.003 | NO | 13.8 | | 0.150 |
| 14 Benzo(b)fluoranthene | 6.64e4 | 3.66e6 | 1.10 | 1.000 | 26.94 | 26.92 | 1.005 | 1.005 | NO | 6.58 | | 0.120 |
| 15 Benzo(k)fluoranthene | 1.48e4 | 4.24e6 | 1.04 | 1.000 | 27.03 | 27.02 | 1.004 | 1.004 | NO | 1.34 | | 0.127 |
| 16 Benzo(e)pyrene | 3.06e5 | 4.24e6 | 0.911 | 1.000 | 28.72 | 28.72 | 1.067 | 1.067 | NO | 31.7 | | 0.145 |
| 17 Benzo(a)pyrene | 6.70e4 | 3.43e6 | 1.02 | 1.000 | 28.98 | 28.96 | 1.006 | 1.005 | NO | 7.70 | | 0.196 |
| 18 Perylene | 1.67e4 | 3.43e6 | 0.987 | 1.000 | 29.72 | 29.67 | 1.031 | 1.030 | NO | 1.97 | | 0.202 |
| 19 Indeno(1,2,3-c,d)pyrene | 6.40e4 | 2.19e6 | 0.915 | 1.000 | 36.71 | 36.70 | 1.007 | 1.007 | NO | 12.8 | | 0.653 |
| 20 Benzo(g,h,i)perylene | 5.55e5 | 2.31e6 | 0.940 | 1.000 | 40.03 | 40.01 | 1.009 | 1.009 | NO | 102 | | 0.649 |
| 21 Dibenz(a,h)anthracene | 1.72e6 | 0.948 | 1.000 | 1.000 | 36.61 | | 1.011 | | YES | | | 0.574 |
| 22 db-Naphthalene | 1.64e6 | 2.72e6 | 1.20 | 1.000 | 10.12 | 10.12 | 0.848 | 0.848 | NO | 100 | 50.2 | 0.0546 |
| 23 db-Acenaphthylene | 1.68e6 | 2.72e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 137 | 68.4 | 0.202 |
| 24 d10-Acenaphthene | 9.98e5 | 2.72e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 124 | 61.8 | 0.0853 |
| 25 d10-Fluorene | 1.05e6 | 2.72e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 138 | 68.8 | 0.0905 |
| 26 d10-Phenanthrene | 1.37e6 | 2.72e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 137 | 68.5 | 0.0831 |
| 27 d10-Fluoranthene | 2.73e6 | 2.72e6 | 1.29 | 1.000 | 20.33 | 20.33 | 0.977 | 0.977 | NO | 156 | 78.0 | 0.0214 |
| 28 d12-Benz(a)anthracene | 2.11e6 | 2.72e6 | 0.900 | 1.000 | 23.11 | 23.10 | 1.110 | 1.110 | NO | 172 | 86.2 | 0.0361 |
| 29 d12-Chrysene | 2.28e6 | 2.72e6 | 1.02 | 1.000 | 23.30 | 23.30 | 1.120 | 1.120 | NO | 164 | 82.2 | 0.0318 |
| 30 d12-Benzo(b)fluoranthene | 3.66e6 | 2.02e6 | 1.18 | 1.000 | 26.77 | 26.80 | 0.907 | 0.908 | NO | 307 | 76.7 | 0.146 |
| 31 d12-Benzo(k)fluoranthene | 4.24e6 | 2.02e6 | 1.50 | 1.000 | 26.88 | 26.91 | 0.911 | 0.912 | NO | 280 | 70.0 | 0.114 |

Quantify Sample Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-18.qld

Last Altered: Wednesday, April 07, 2021 10:14:55 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 10:15:35 AM Pacific Daylight Time

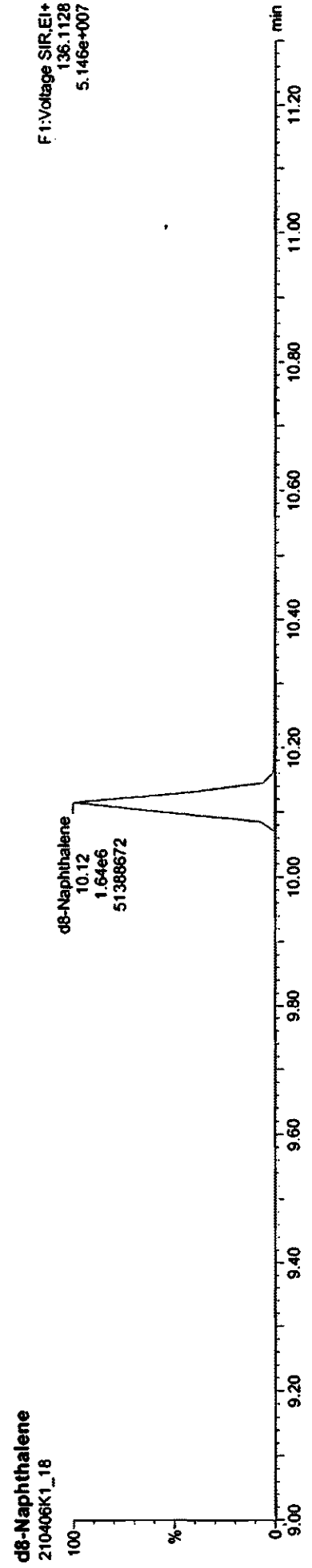
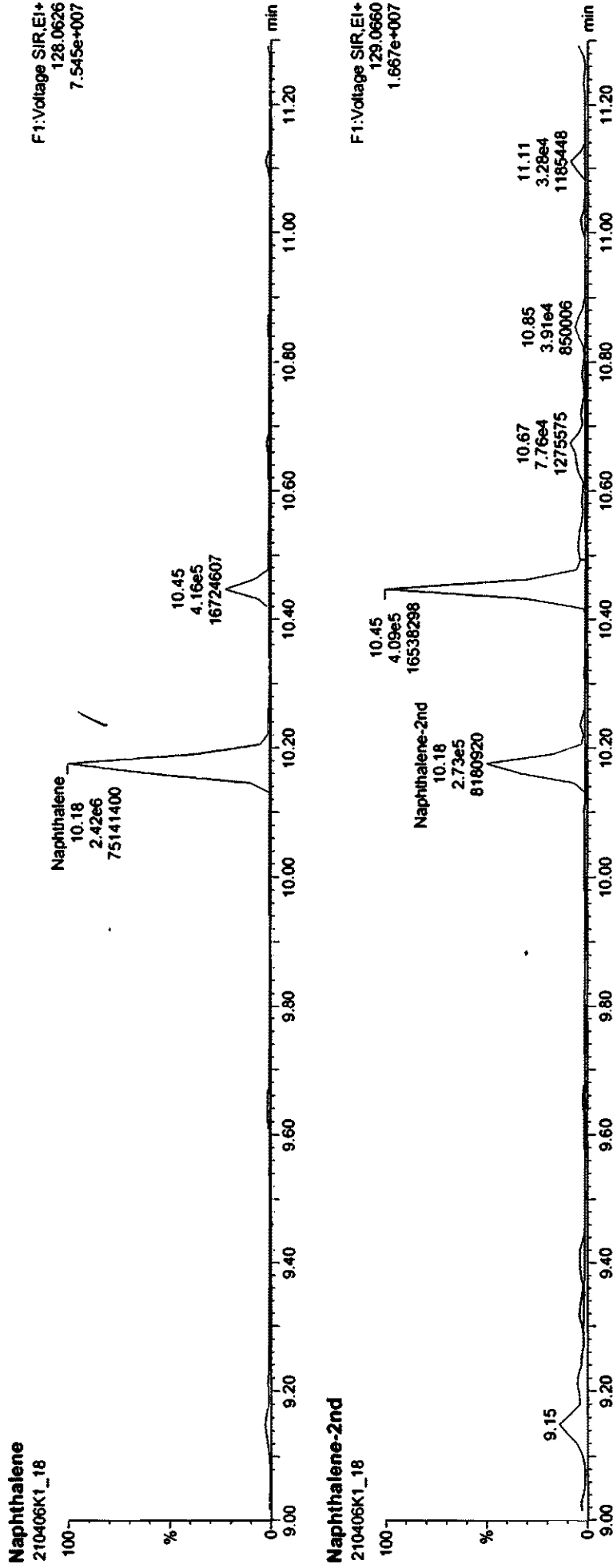
Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

| L# | Name | Resp | IS Resp | RRF | w/wvd | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 32 | d12-Benzo(a)pyrene | 3.43e6 | 2.02e6 | 1.24 | 1.000 | 28.77 | 28.81 | 0.975 | 0.977 | NO | 274 | 68.6 | 0.139 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 2.19e6 | 2.02e6 | 1.02 | 1.000 | 36.79 | 36.46 | 1.247 | 1.236 | YES | 213 | 53.2 | 0.245 |
| 34 | d12-Benzo(g,h,i)perylene | 2.31e6 | 2.02e6 | 1.00 | 1.000 | 40.19 | 39.66 | 1.362 | 1.344 | YES | 228 | 57.0 | 0.248 |
| 35 | d14-Dibenz(a,h)anthracene | 1.72e6 | 2.02e6 | 0.765 | 1.000 | 36.56 | 36.21 | 1.239 | 1.227 | YES | 223 | 55.8 | 0.189 |
| 36 | d10-Anthracene | 1.20e6 | 2.02e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 121 | 60.3 | 0.291 |
| 37 | d14-Terphenyl | 4.88e6 | 2.73e6 | 0.576 | 1.000 | 20.70 | 20.72 | 1.018 | 1.019 | NO | 621 | 124 | 0.0392 |
| 38 | d12-Benzo(e)pyrene | 4.56e6 | 4.24e6 | 0.738 | 1.000 | 28.53 | 28.56 | 1.060 | 1.061 | NO | 583 | 117 | 0.191 |
| 39 | d10-1-Methylnaphthalene | 1.67e6 | 1.67e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.0774 |
| 40 | d10-Pyrene | 2.72e6 | 2.72e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 0.0275 |
| 41 | d12-Perylene | 2.02e6 | 2.02e6 | 1.00 | 1.000 | 29.59 | 29.50 | 1.000 | 1.000 | NO | 200 | 100 | 0.172 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3



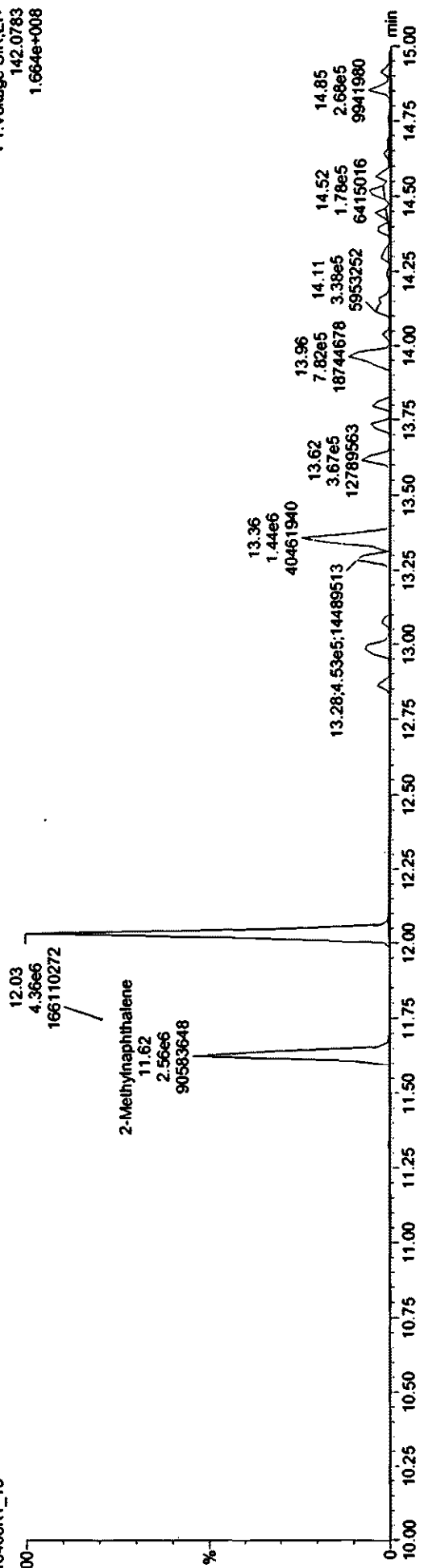
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

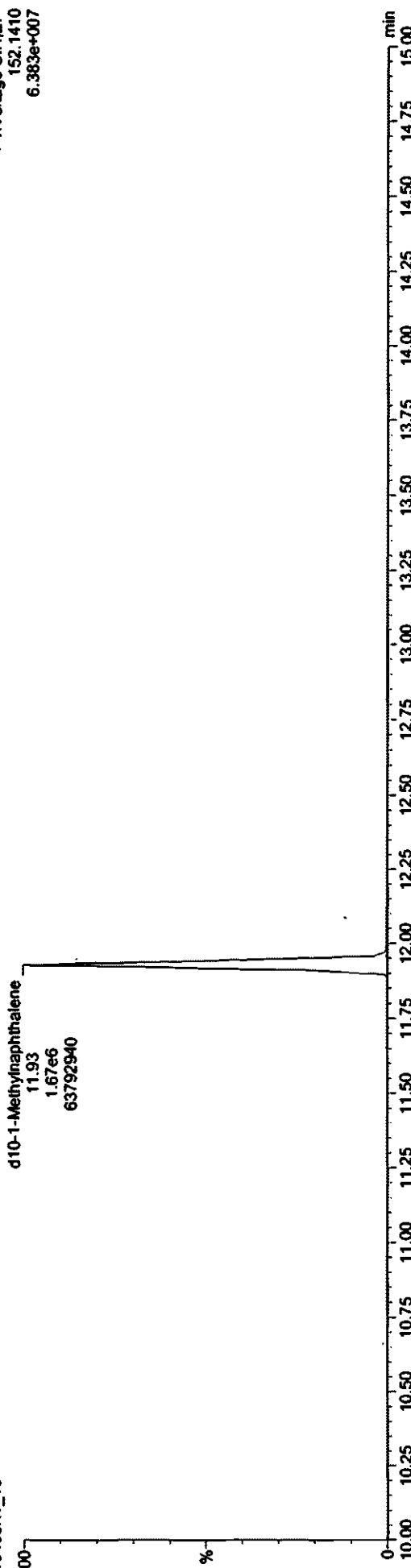
2-Methylnaphthalene
210406K1_18

F1: Voltage SIR, EI+
142.0783
1.664e+008



d10-1-Methylnaphthalene (RS)
210406K1_18

F1: Voltage SIR, EI+
152.1410
6.383e+007

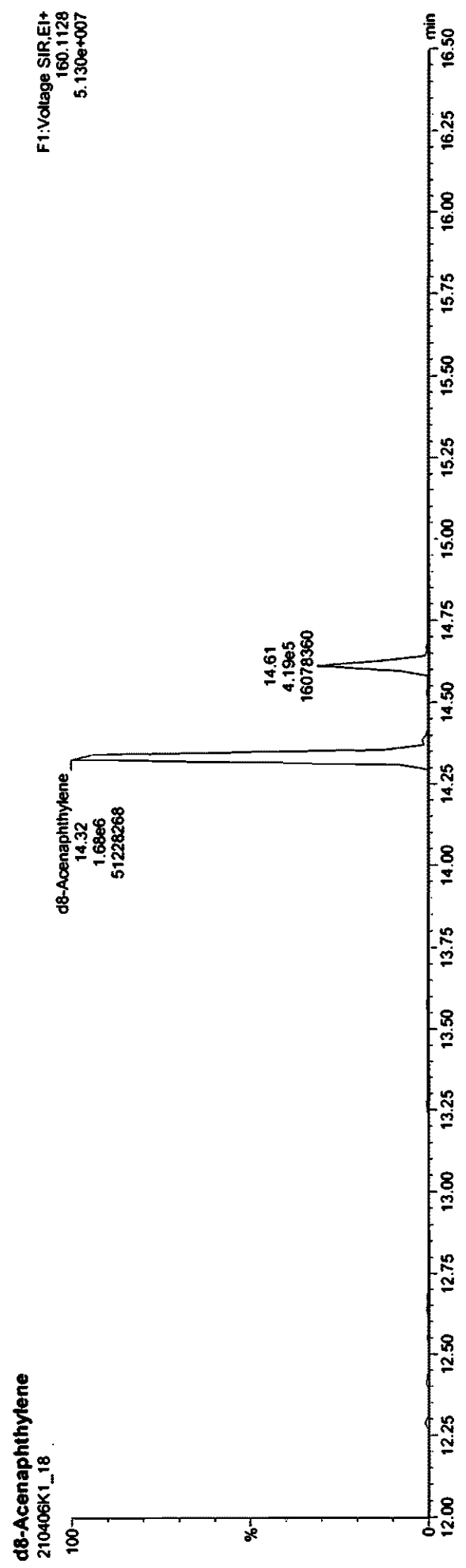
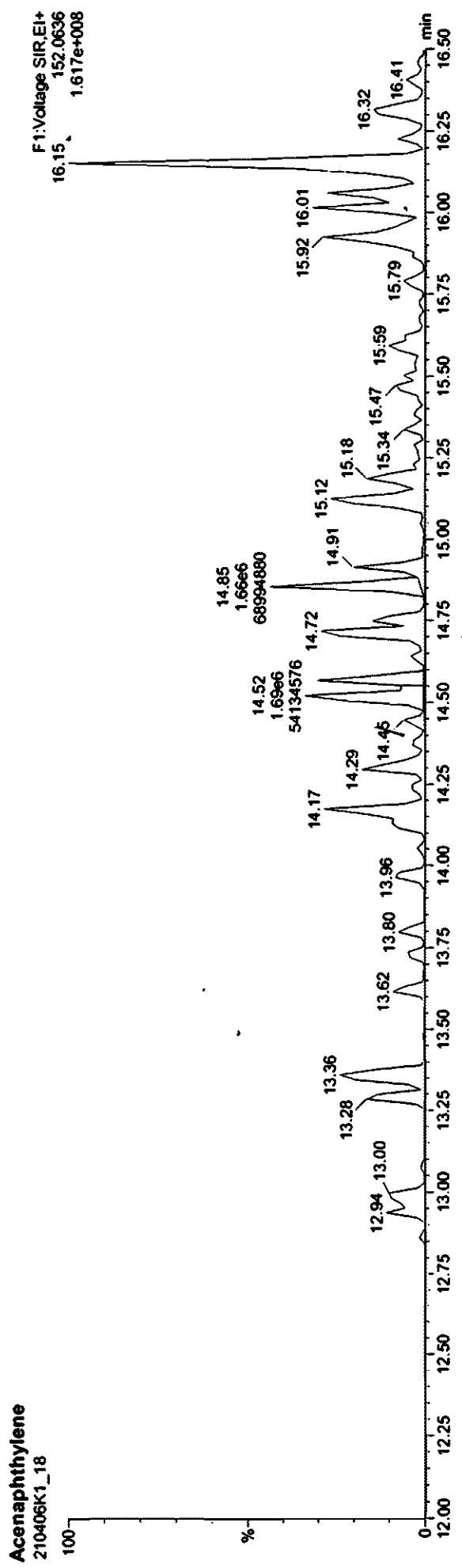


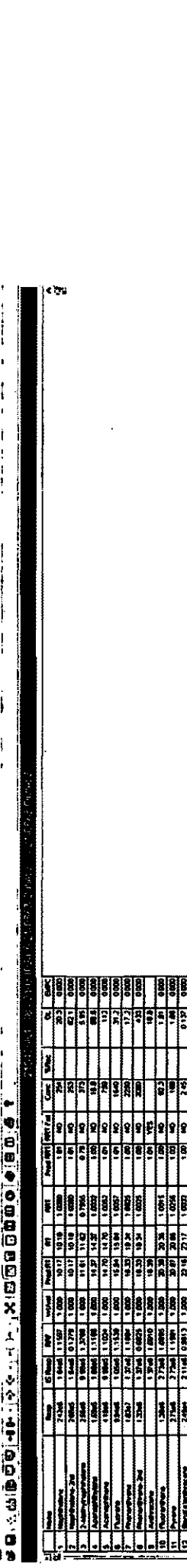
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3





| RT | Area | Height | Width | S/N | RT | Area | Height | Width | S/N | RT | Area | Height | Width | S/N |
|-------|------|--------|-------|-----|-------|------|--------|-------|-----|-------|------|--------|-------|-----|
| 12.80 | 1200 | 250 | 0.10 | 100 | 13.26 | 1500 | 300 | 0.10 | 100 | 13.86 | 1800 | 350 | 0.10 | 100 |
| 13.07 | 1300 | 280 | 0.10 | 100 | 14.13 | 2000 | 400 | 0.10 | 100 | 14.81 | 8500 | 1700 | 0.10 | 100 |
| 14.05 | 1400 | 300 | 0.10 | 100 | 15.10 | 1600 | 320 | 0.10 | 100 | 15.59 | 1700 | 340 | 0.10 | 100 |
| 14.81 | 8500 | 1700 | 0.10 | 100 | 15.78 | 1500 | 300 | 0.10 | 100 | 15.99 | 1600 | 320 | 0.10 | 100 |
| 15.24 | 1500 | 300 | 0.10 | 100 | 16.00 | 1600 | 320 | 0.10 | 100 | | | | | |

21-0893 Comp: 1:163103:06:21-0893:00001 3 1
12.80 13.07 13.26 13.86 14.13 14.81 15.10 15.59 15.78 15.99
11/10/00 08:12:26 15/10/00 11:14:00

21-0893 16
21-0893 Comp: 3:163103:06:21-0893:00001 3 1
14.81 14.81 18.70 19.34 51726700
11/10/00 08:12:26 15/10/00 11:14:00

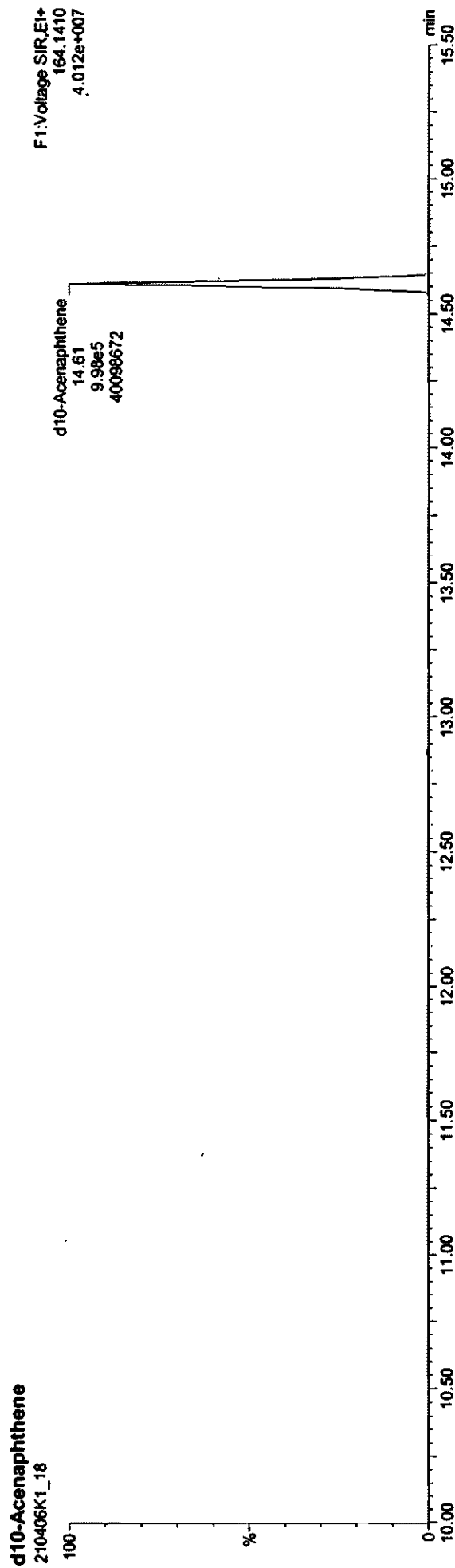
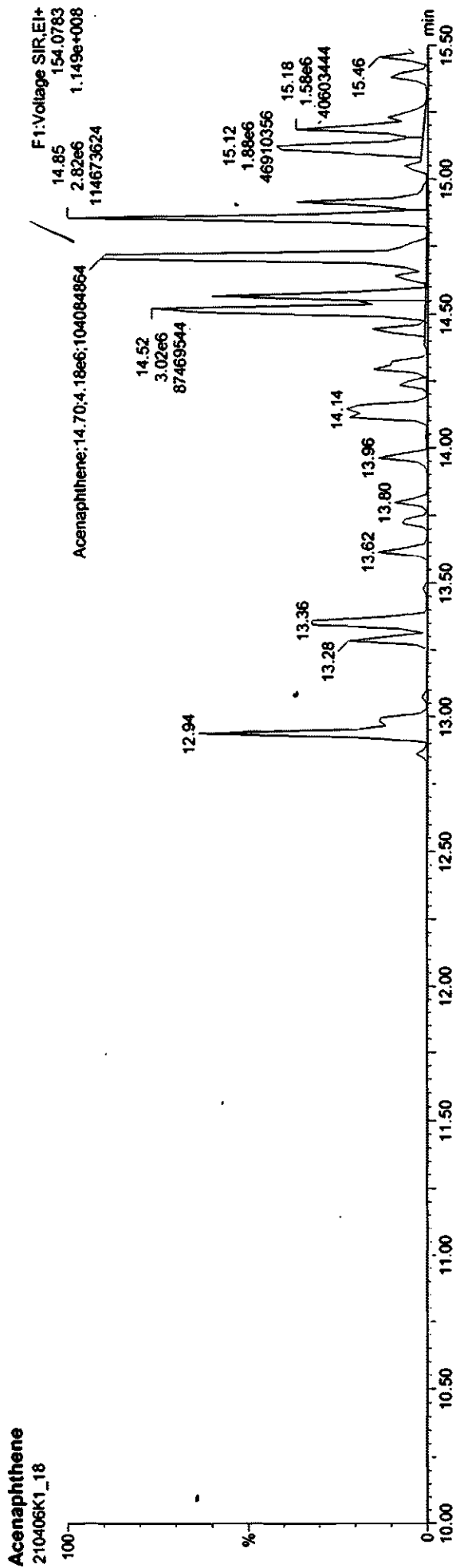
21-0896 16
21-0896 Comp: 1:163103:06:21-0896:00001 3 1
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11/10/00 08:12:26 15/10/00 11:14:00

805 of 1215

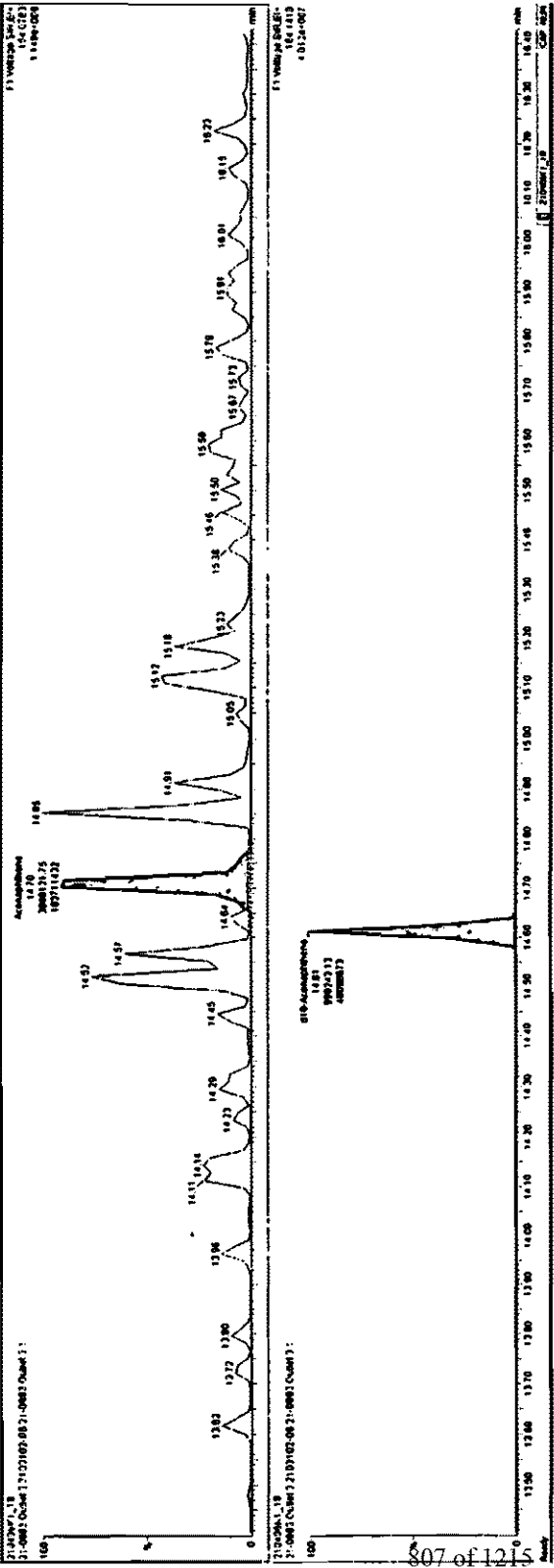
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3



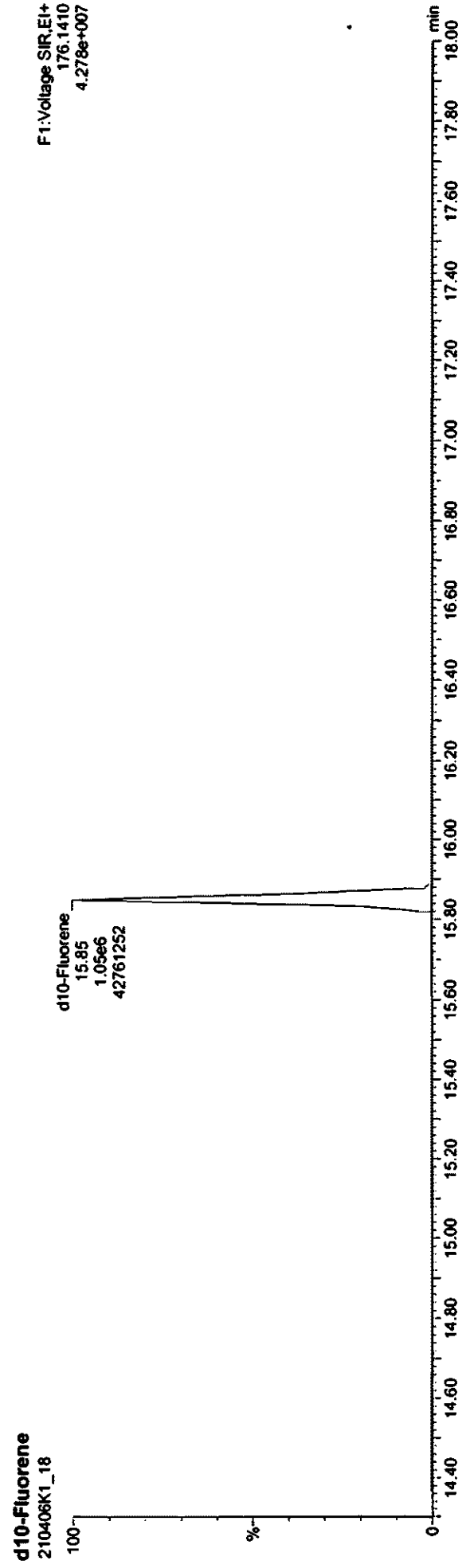
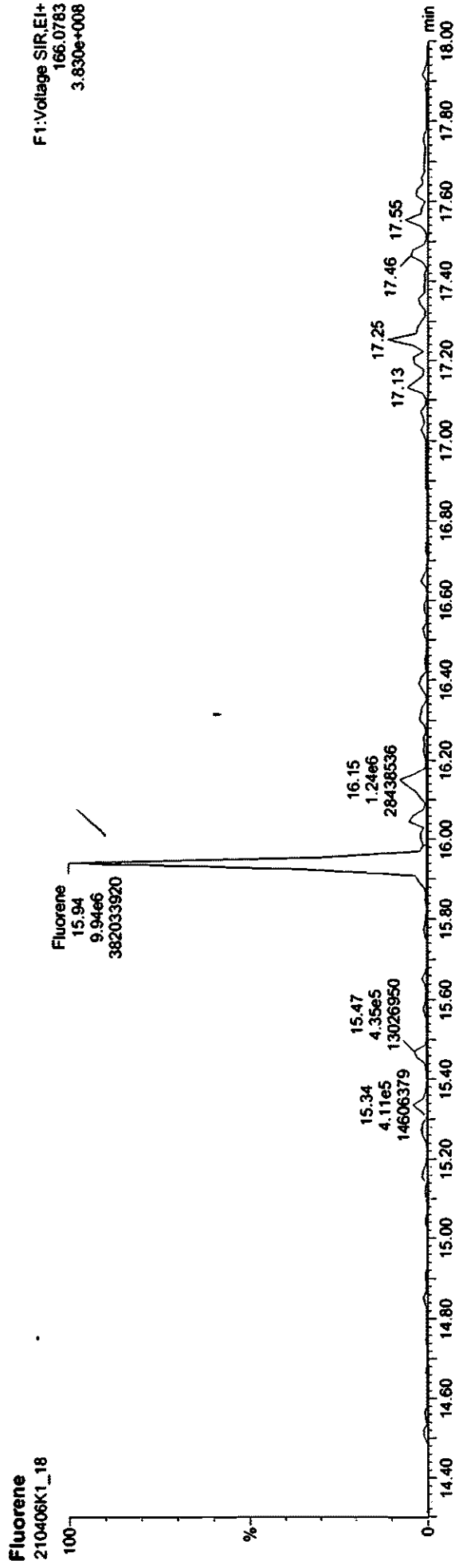
| Peak | Retention Time (min) | Height | Area | Integration | Height (min) | Area | Integration |
|------|----------------------|--------|-------|-------------|--------------|-------|-------------|
| 1 | 13.83 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 3 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 4 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 5 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 6 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 7 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 8 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 9 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 10 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 11 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 12 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 13 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 14 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 15 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 16 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 17 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 18 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 19 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 20 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 21 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 22 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 23 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 24 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 25 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 26 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 27 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 28 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 29 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 30 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 31 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 32 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 33 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 34 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 35 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 36 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 37 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 38 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 39 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 40 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 41 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 42 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 43 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 44 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 45 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 46 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 47 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 48 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 49 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 50 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 51 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 52 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 53 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 54 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 55 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 56 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 57 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 58 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 59 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 60 | 13.72 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3



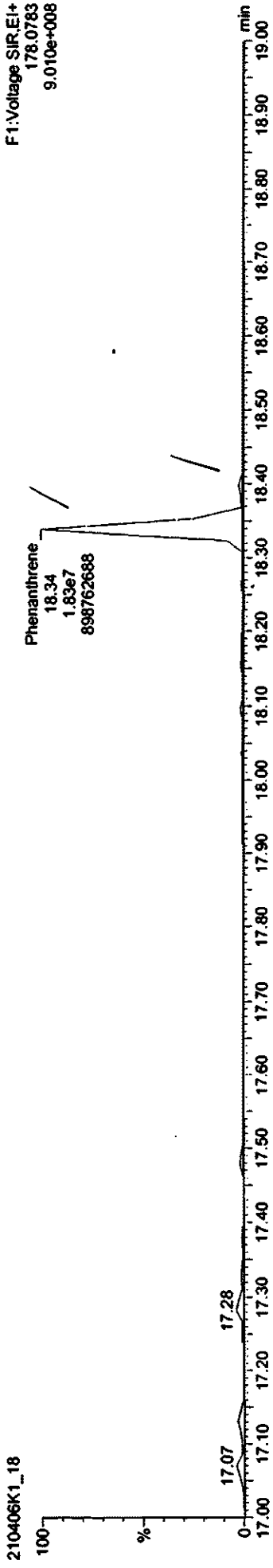
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

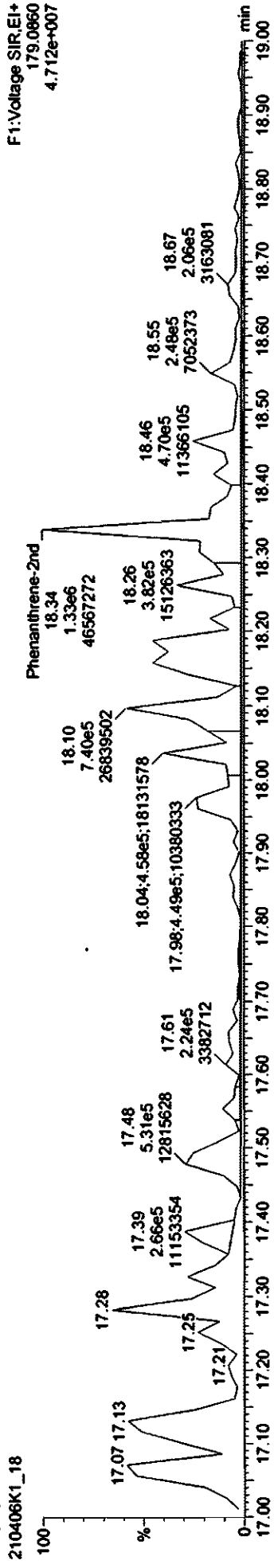
Phenanthrene; Anthracene

F1: Voltage SIR, EI+
178.0783
9.010e+008



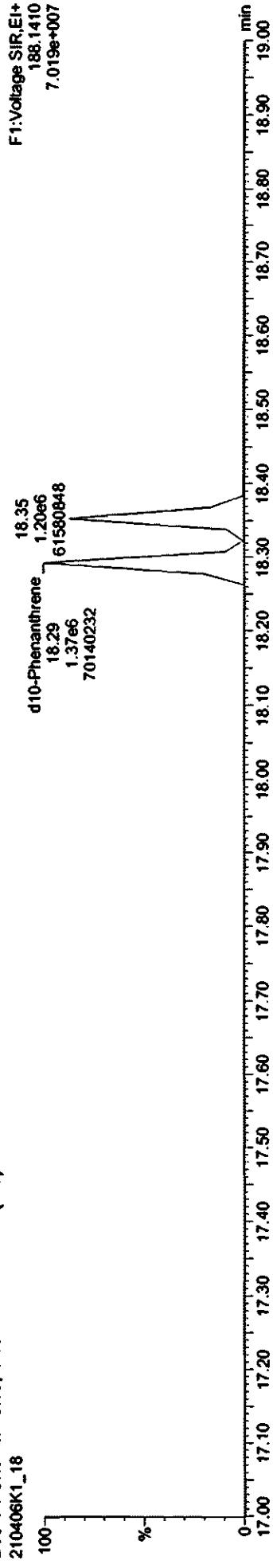
Phenanthrene-2nd

F1: Voltage SIR, EI+
179.0860
4.712e+007

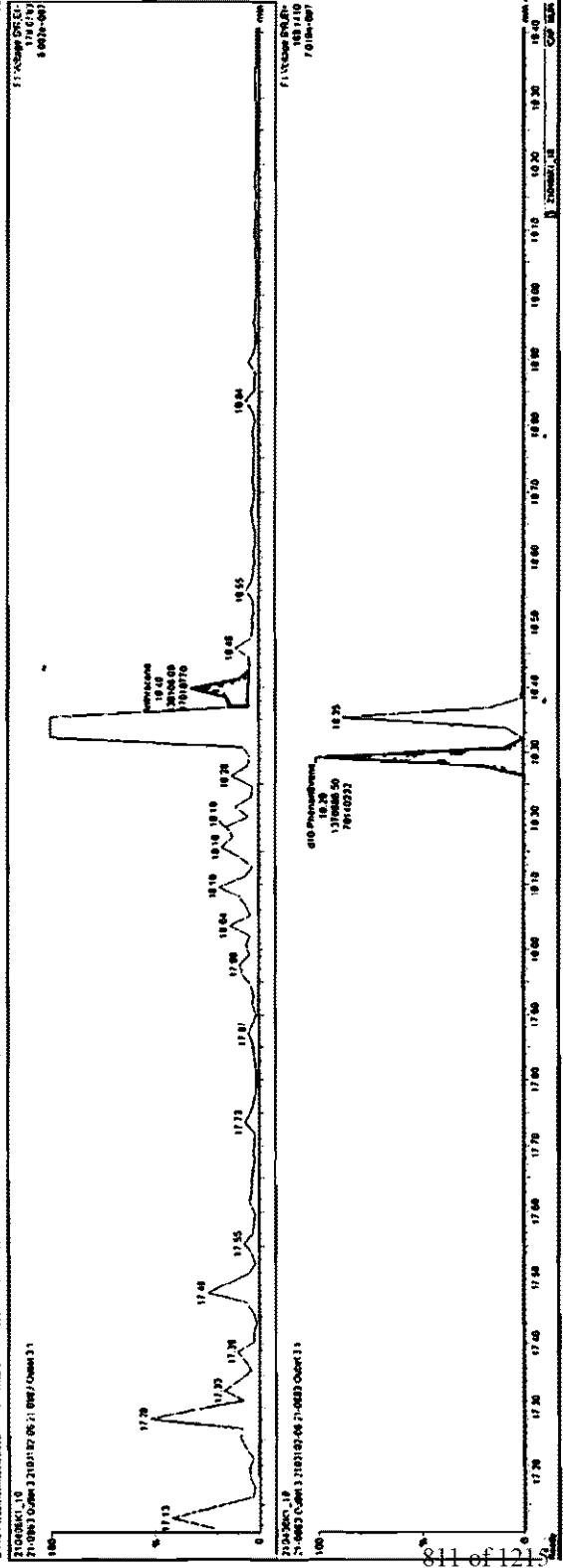


d10-Phenanthrene; d10-Anthracene (AS)

F1: Voltage SIR, EI+
188.1410
7.019e+007



| Peak | RT | Area | Height | Width | Skew | Asym | SN | Ident | Ref |
|------|-------|--------|--------|-------|------|------|------|------------|-----|
| 1 | 17.13 | 12500 | 1150 | 1.20 | 1.05 | 0.05 | 150 | Phenacetin | 1 |
| 2 | 17.28 | 15000 | 1350 | 1.25 | 1.08 | 0.06 | 160 | Phenacetin | 1 |
| 3 | 17.46 | 18000 | 1650 | 1.30 | 1.10 | 0.07 | 170 | Phenacetin | 1 |
| 4 | 17.72 | 22000 | 2000 | 1.35 | 1.12 | 0.08 | 180 | Phenacetin | 1 |
| 5 | 17.95 | 25000 | 2250 | 1.40 | 1.15 | 0.09 | 190 | Phenacetin | 1 |
| 6 | 18.06 | 28000 | 2550 | 1.45 | 1.18 | 0.10 | 200 | Phenacetin | 1 |
| 7 | 18.28 | 35000 | 3150 | 1.55 | 1.25 | 0.12 | 220 | Phenacetin | 1 |
| 8 | 18.44 | 45000 | 4050 | 1.65 | 1.35 | 0.15 | 250 | Phenacetin | 1 |
| 9 | 18.65 | 55000 | 5050 | 1.75 | 1.45 | 0.18 | 280 | Phenacetin | 1 |
| 10 | 18.84 | 65000 | 6050 | 1.85 | 1.55 | 0.20 | 300 | Phenacetin | 1 |
| 11 | 19.06 | 80000 | 7500 | 2.00 | 1.70 | 0.25 | 350 | Phenacetin | 1 |
| 12 | 19.28 | 100000 | 9500 | 2.20 | 1.90 | 0.30 | 400 | Phenacetin | 1 |
| 13 | 19.46 | 120000 | 11500 | 2.40 | 2.10 | 0.35 | 450 | Phenacetin | 1 |
| 14 | 19.72 | 150000 | 14500 | 2.60 | 2.30 | 0.40 | 500 | Phenacetin | 1 |
| 15 | 19.95 | 180000 | 17500 | 2.80 | 2.50 | 0.45 | 550 | Phenacetin | 1 |
| 16 | 20.06 | 200000 | 19500 | 3.00 | 2.70 | 0.50 | 600 | Phenacetin | 1 |
| 17 | 20.28 | 250000 | 24500 | 3.30 | 3.00 | 0.55 | 700 | Phenacetin | 1 |
| 18 | 20.44 | 300000 | 29500 | 3.60 | 3.30 | 0.60 | 800 | Phenacetin | 1 |
| 19 | 20.65 | 350000 | 34500 | 3.90 | 3.60 | 0.65 | 900 | Phenacetin | 1 |
| 20 | 20.84 | 400000 | 39500 | 4.20 | 3.90 | 0.70 | 1000 | Phenacetin | 1 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

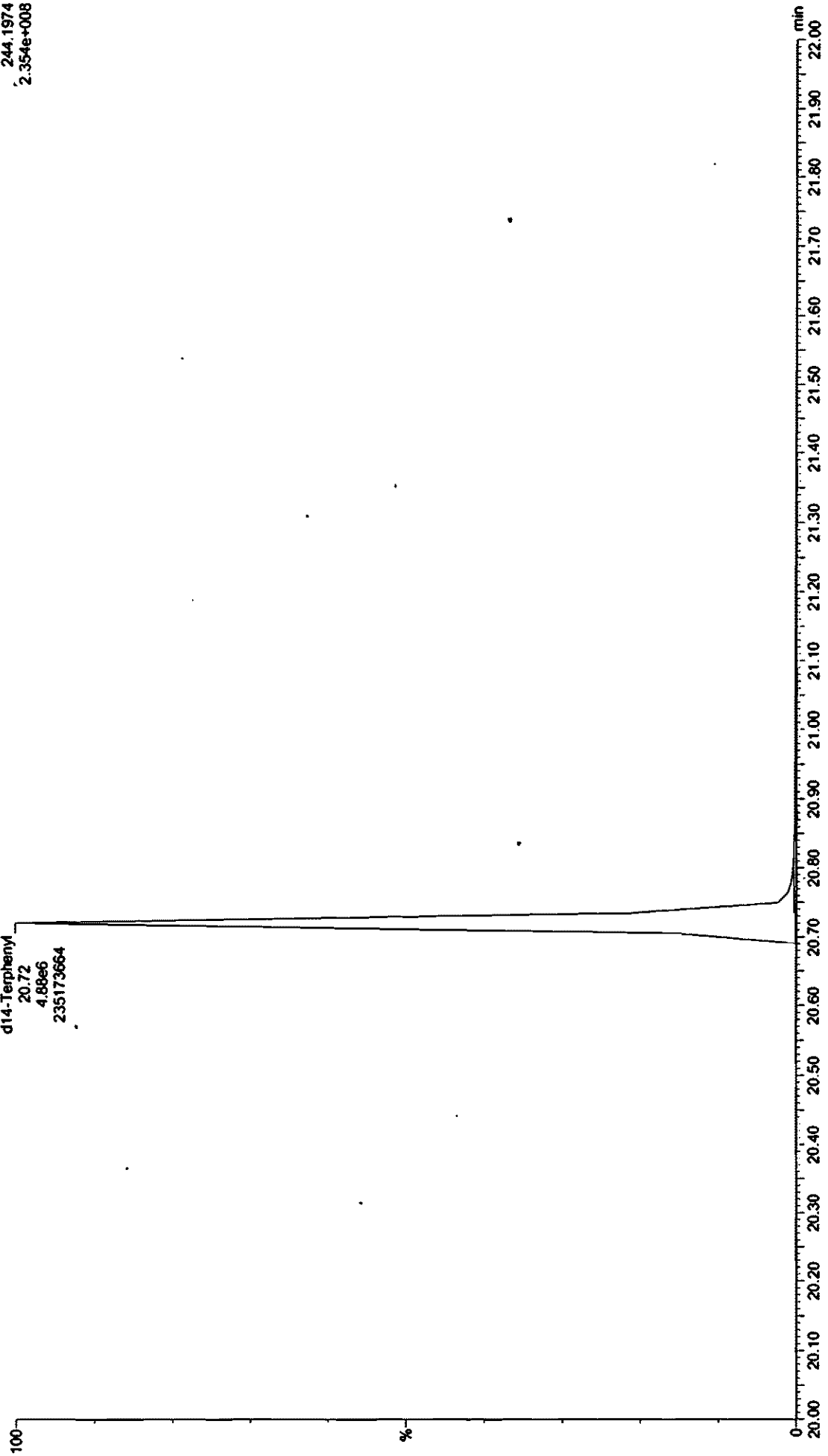
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
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Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

d14-Terphenyl (PS)

F2:Voltage SIR.EI+
244.1974
2.354e+008

d14-Terphenyl
20.72
4.88e6
235173664



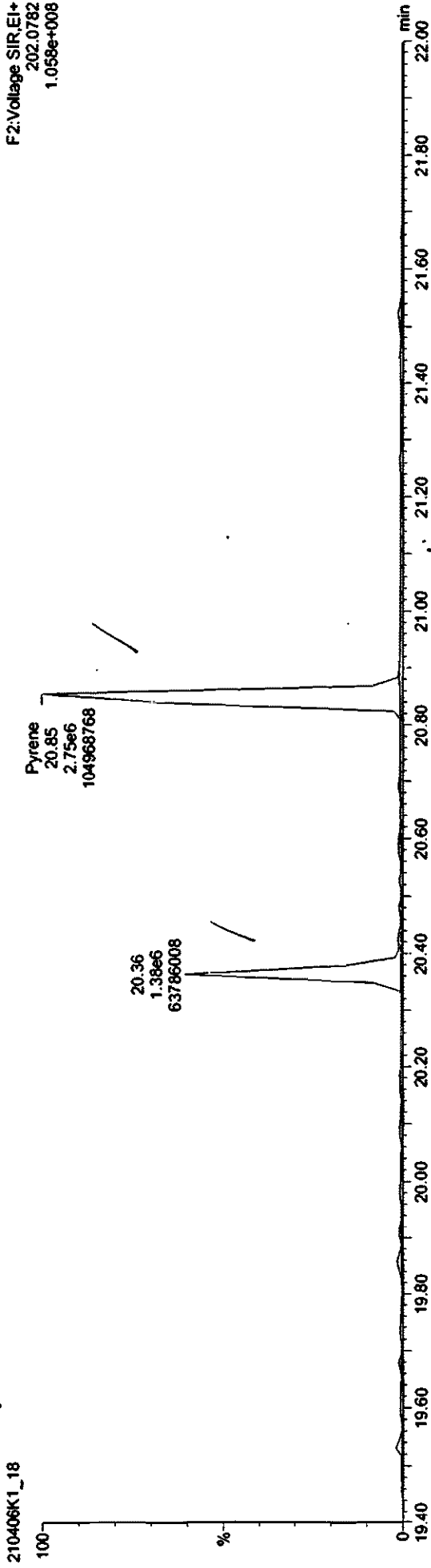
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

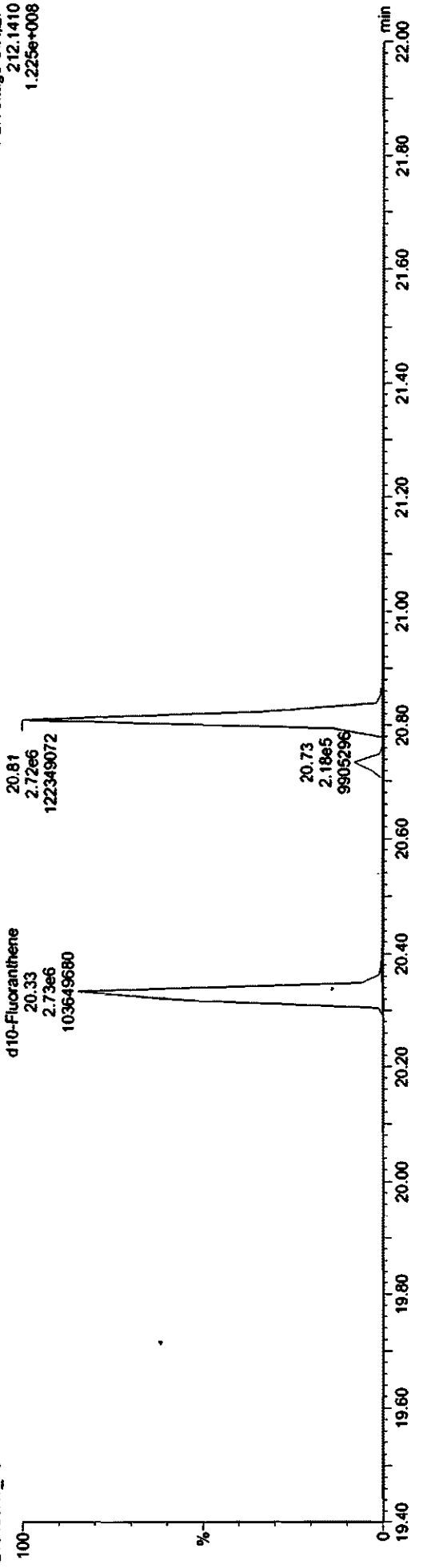
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
1.058e+008



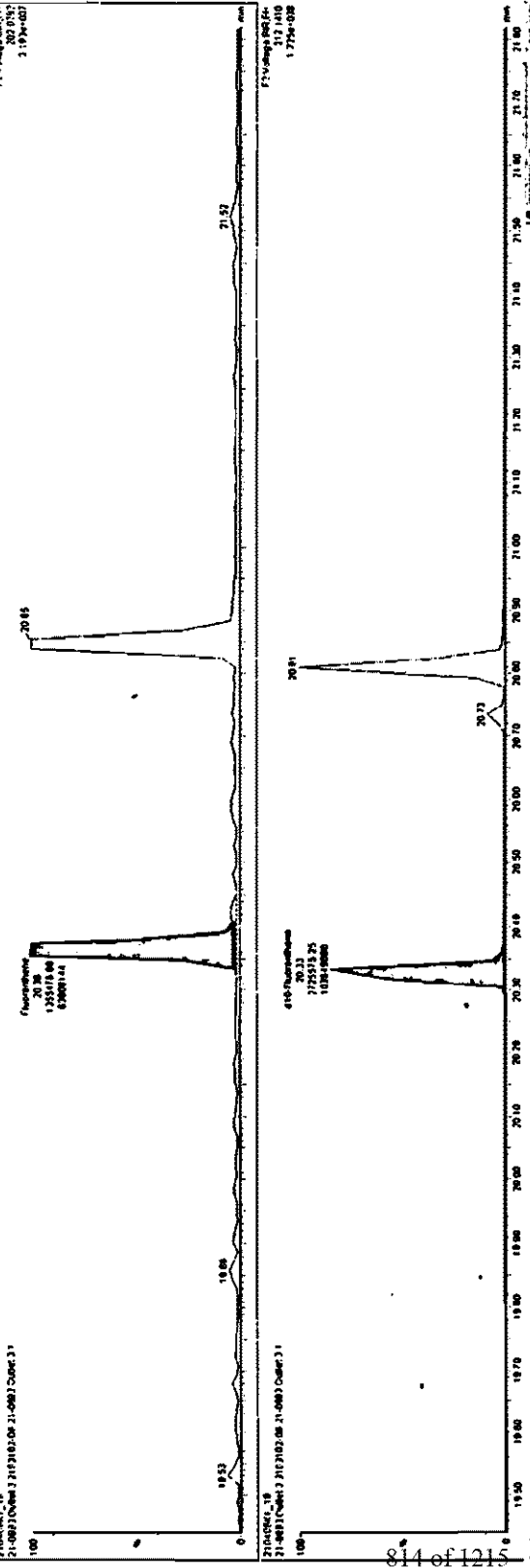
d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
1.225e+008



Chromatogram (Chromatogram) - 10/10/07 18:20:11.18

| Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Area% | Height% |
|----------------------|--------|--------|--------|--------------|-------------|--------|---------|
| 19.32 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.33 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.34 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.35 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.36 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.37 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.38 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.39 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.40 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.41 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.42 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.43 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.44 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.45 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.46 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.47 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.48 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.49 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.50 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.51 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.52 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.53 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.54 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.55 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.56 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.57 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.58 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.59 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.60 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.61 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.62 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.63 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.64 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.65 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.66 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.67 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.68 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.69 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.70 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.71 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.72 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.73 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.74 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.75 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.76 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.77 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.78 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.79 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.80 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.81 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.82 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.83 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.84 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.85 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.86 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.87 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.88 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.89 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.90 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.91 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.92 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.93 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.94 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.95 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.96 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.97 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.98 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 19.99 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |
| 20.00 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 |



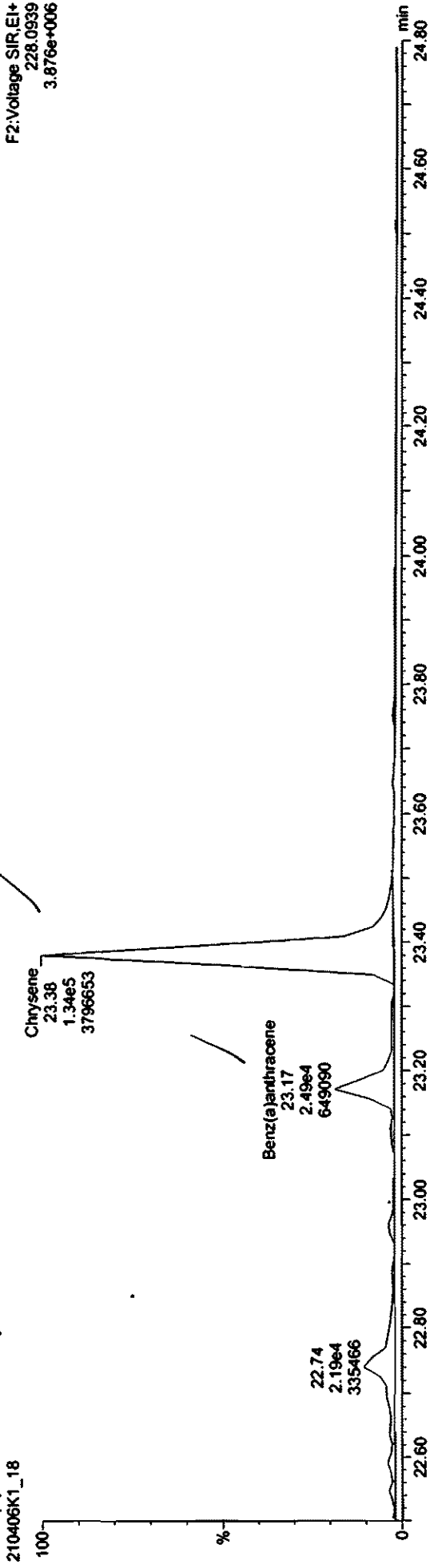
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

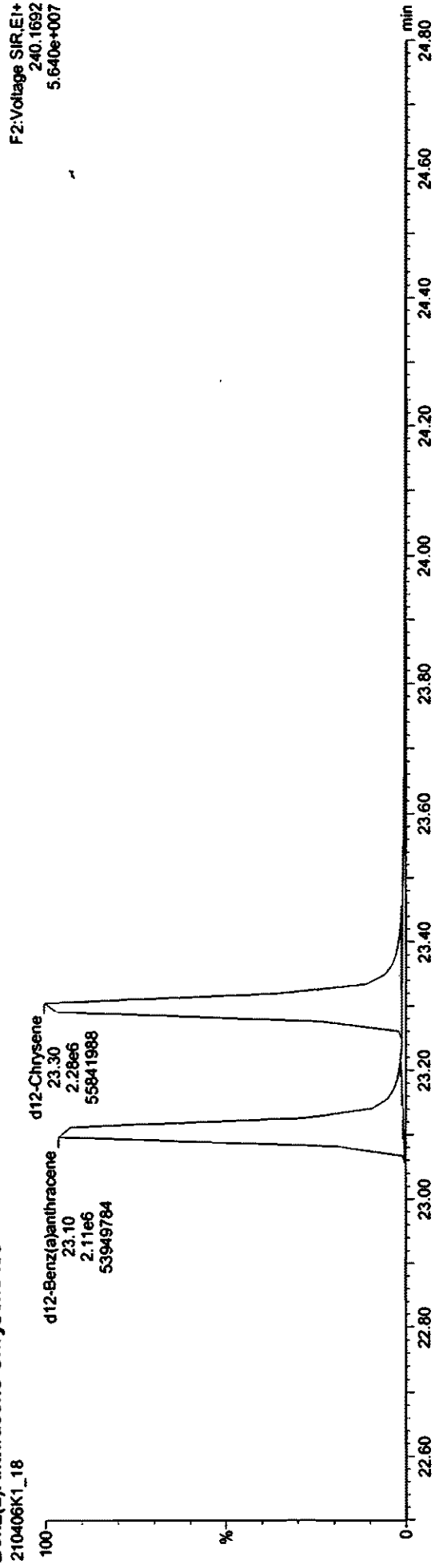
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
3.876e+006



Benz(a)Anthracene-Chrysene-Iso

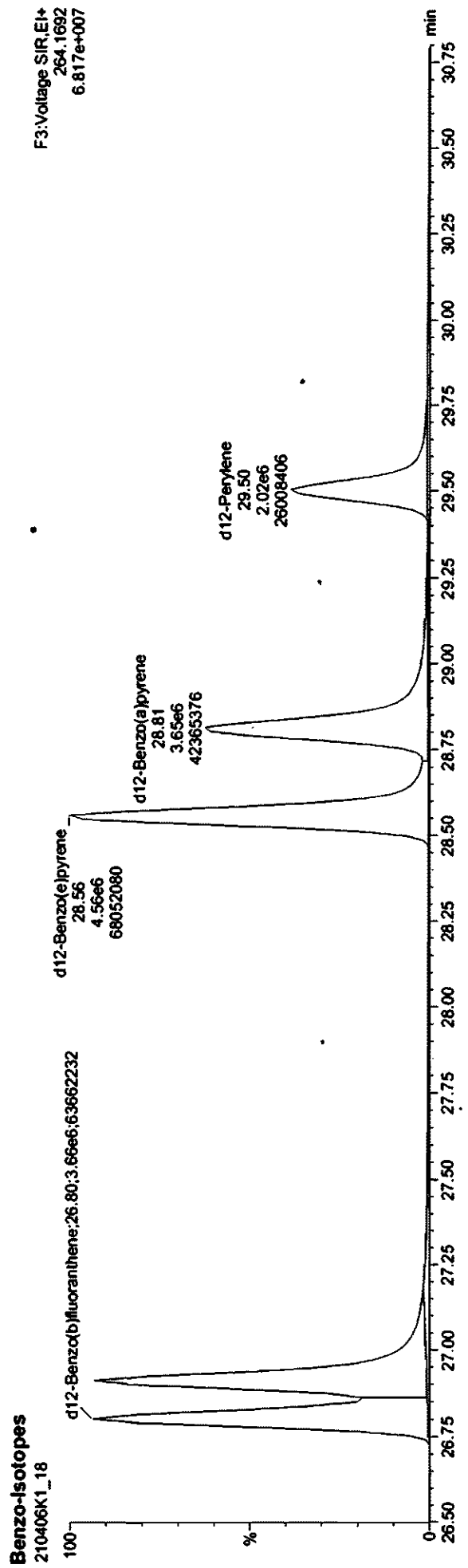
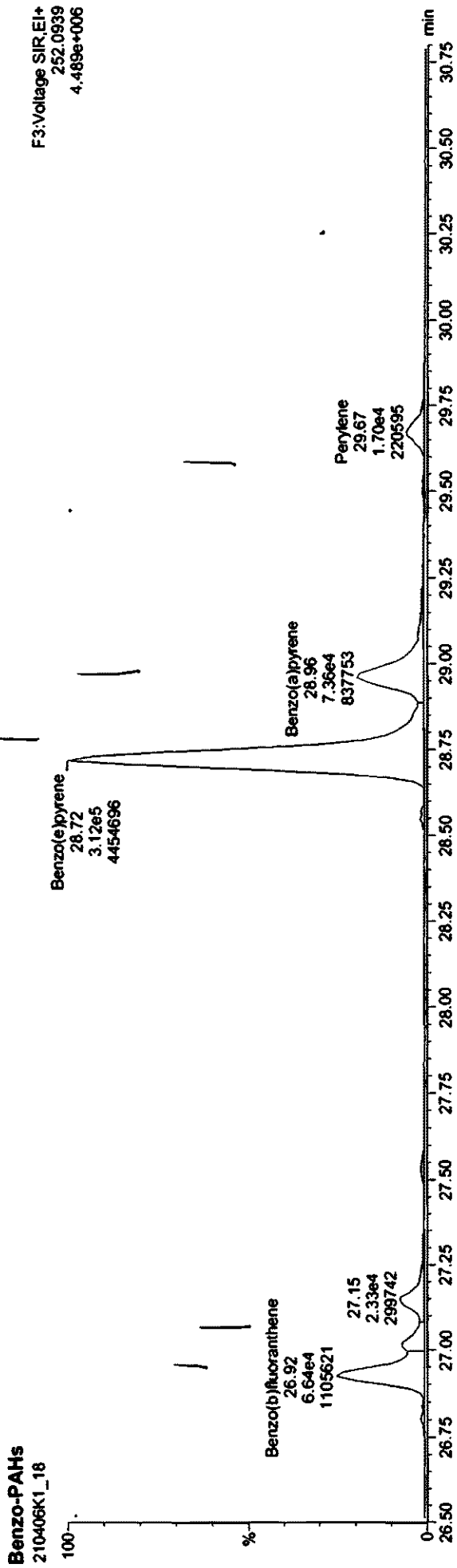
F2:Voltage SIR,EI+
240.1692
5.640e+007



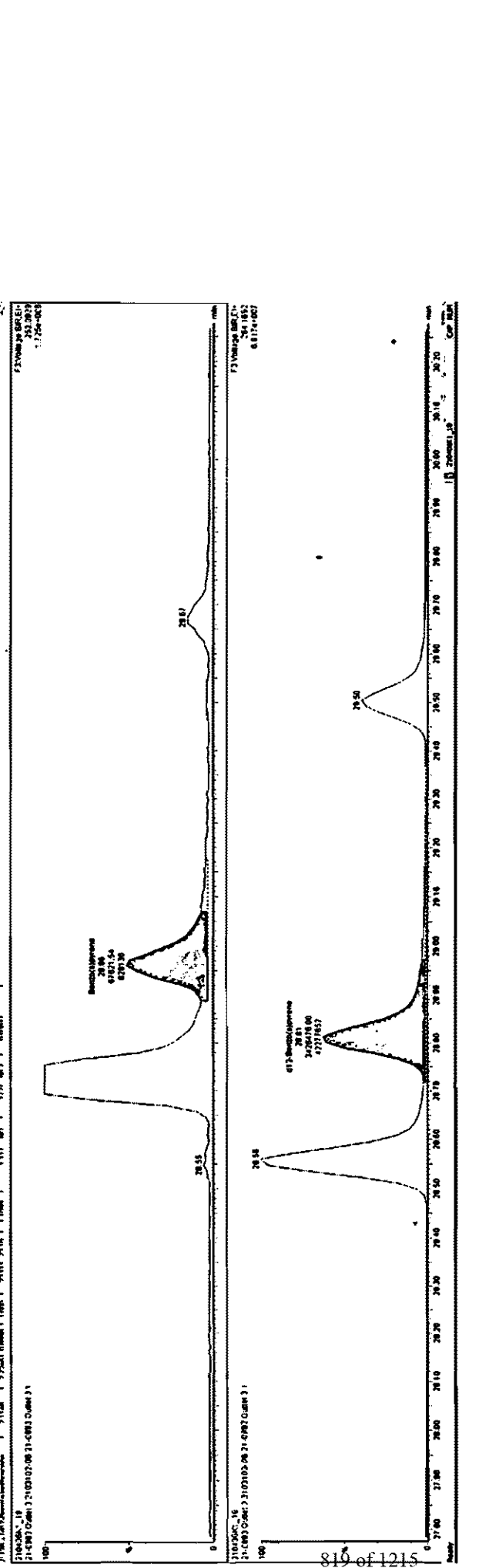
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3



| Peak | RT | Area | Height | W | Area% | Height% | Area% | Height% |
|------|------|------|--------|------|-------|---------|-------|---------|
| 1 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 12 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 13 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 14 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 15 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 16 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 17 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 18 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 19 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 20 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 21 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 22 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 23 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 24 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 25 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 26 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 27 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 28 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 29 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 30 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 31 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 32 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 34 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 35 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 36 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 37 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 38 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 39 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 40 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 41 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 42 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 43 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 44 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 45 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 46 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 47 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 48 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 49 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 50 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |



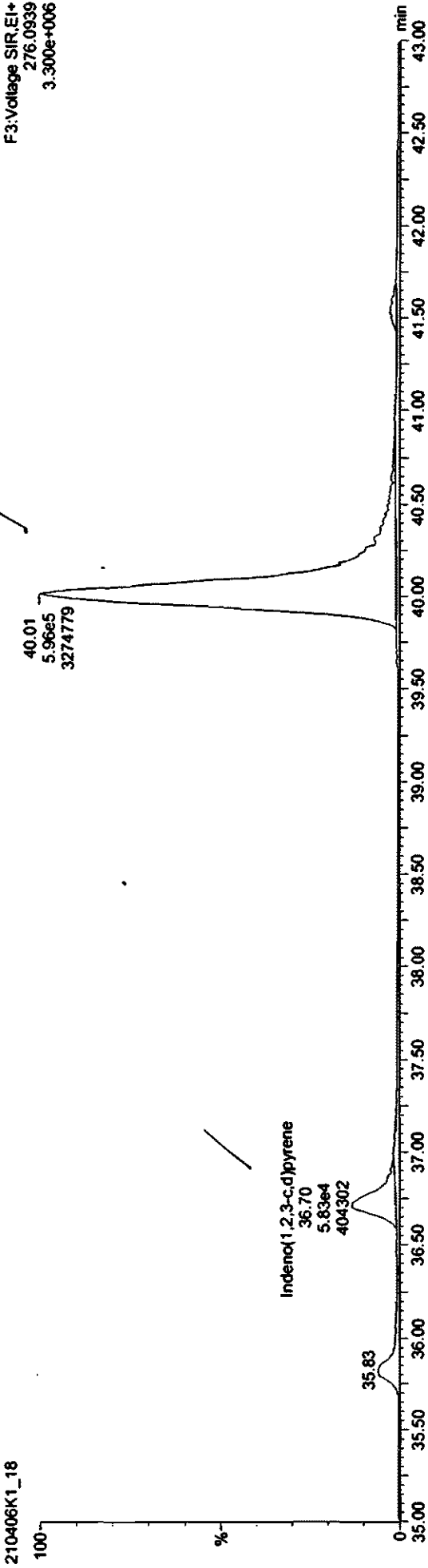
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

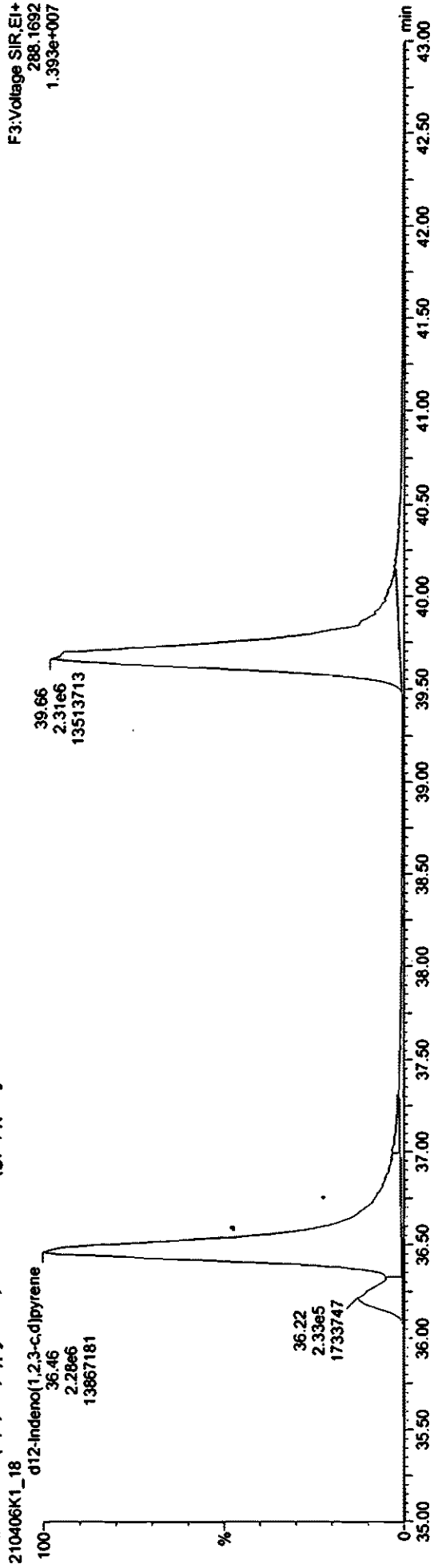
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
3.300e+006

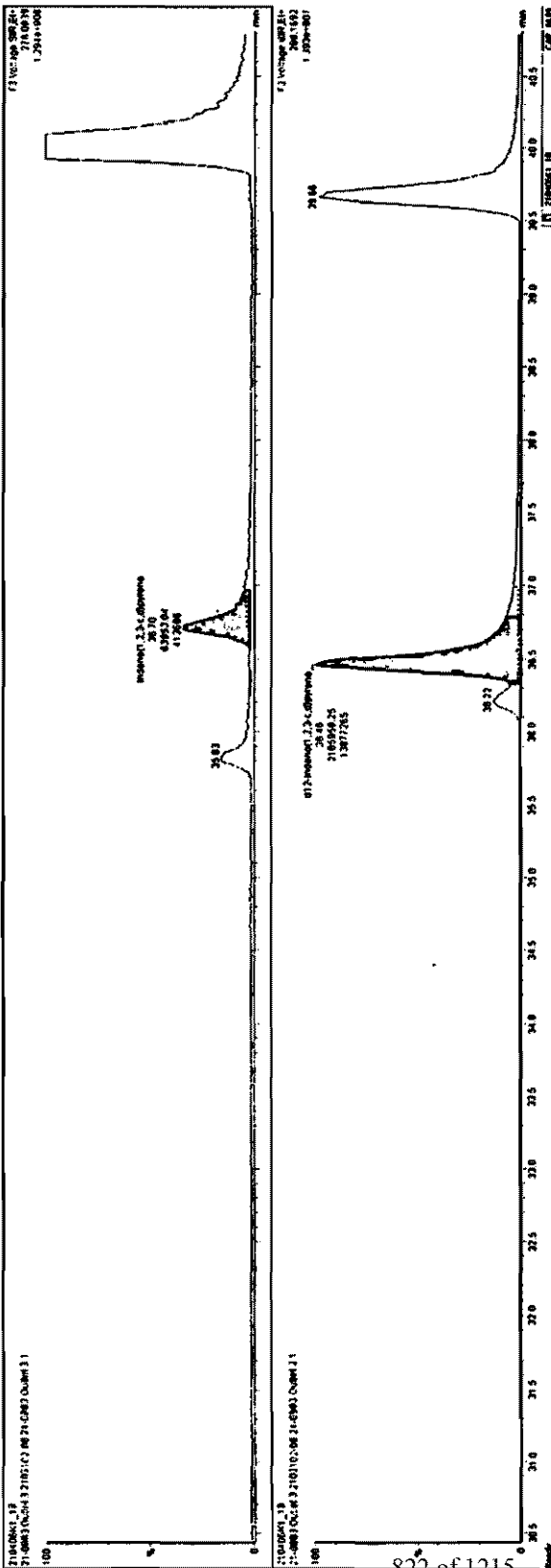


d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

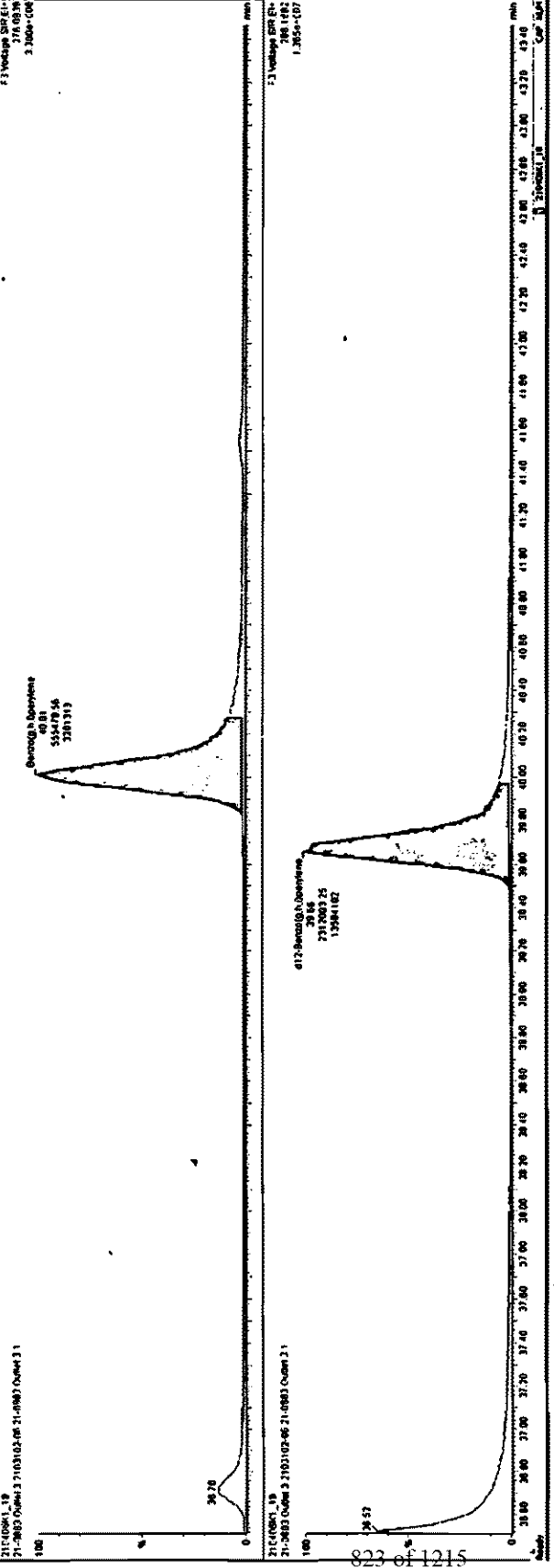
F3:Voltage SIR,EI+
288.1692
1.393e+007



| Peak | Retention Time (min) | Height | Area | Area% | Height% | Height (mm) | Area (mm²) | Area (%) | Height (%) |
|------|----------------------|--------|-------|-------|---------|-------------|------------|----------|------------|
| 1 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 15 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 21 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 23 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 25 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 26 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 35 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 36 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 37 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 38 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 39 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 42 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 45 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 49 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 50 | 2.583 | 1.500 | 1.500 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |



| ID | Name | Qty | Unit | Price | Amount | Tax | Disc | Total | Disc | Total |
|----|---------------------|--------|--------|-------|--------|--------|--------|-------|--------|-------|
| 15 | 1000000000000000000 | 1.0000 | 1.0000 | 77.00 | 77.00 | 1.0000 | 1.0000 | 77.00 | 1.0000 | 77.00 |
| 16 | 1000000000000000000 | 1.0000 | 1.0000 | 28.75 | 28.75 | 1.0000 | 1.0000 | 28.75 | 1.0000 | 28.75 |
| 17 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 18 | 1000000000000000000 | 1.0000 | 1.0000 | 29.75 | 29.75 | 1.0000 | 1.0000 | 29.75 | 1.0000 | 29.75 |
| 19 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 20 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 21 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 22 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 23 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 24 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 25 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 26 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 27 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 28 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 29 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |
| 30 | 1000000000000000000 | 1.0000 | 1.0000 | 30.00 | 30.00 | 1.0000 | 1.0000 | 30.00 | 1.0000 | 30.00 |

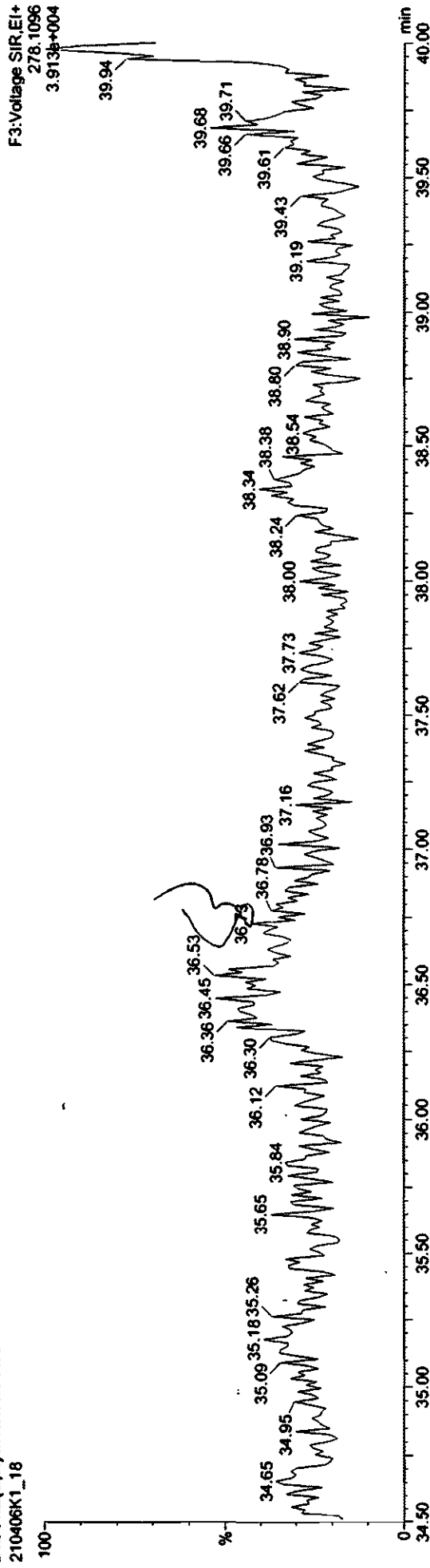


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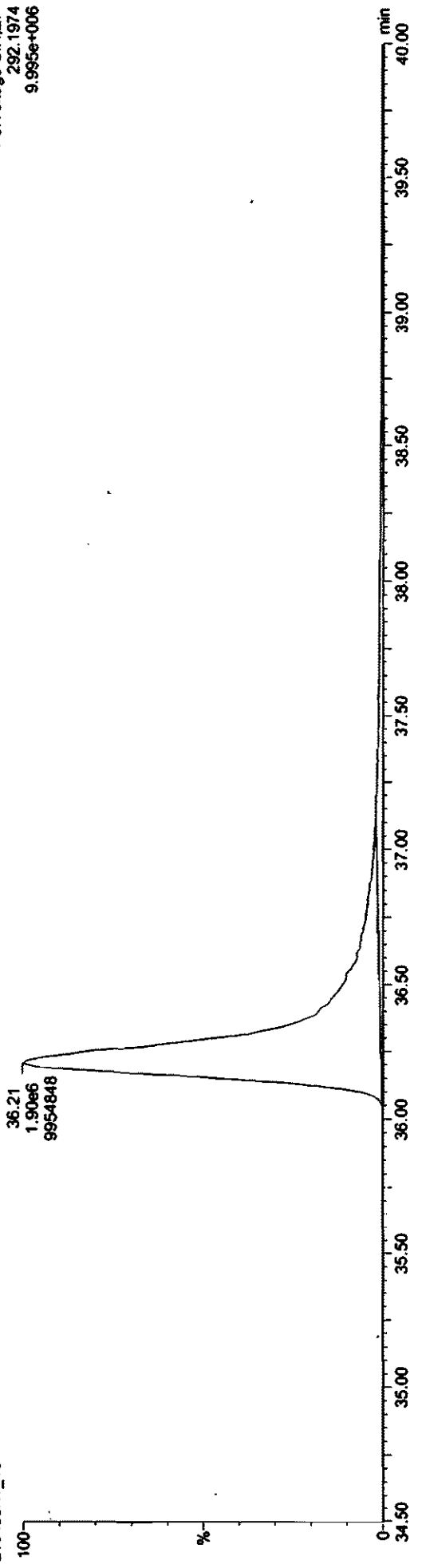
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_18, Date: 07-Apr-2021, Time: 00:30:58, ID: 2103102-06 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

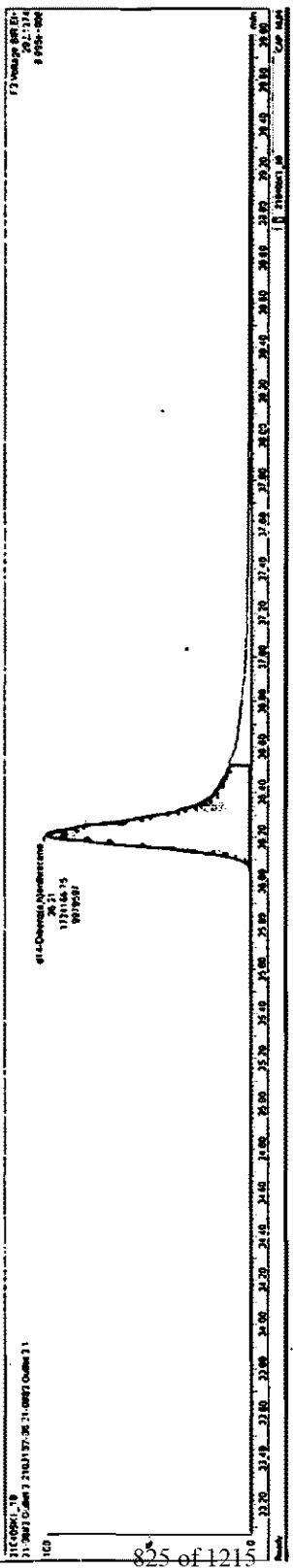
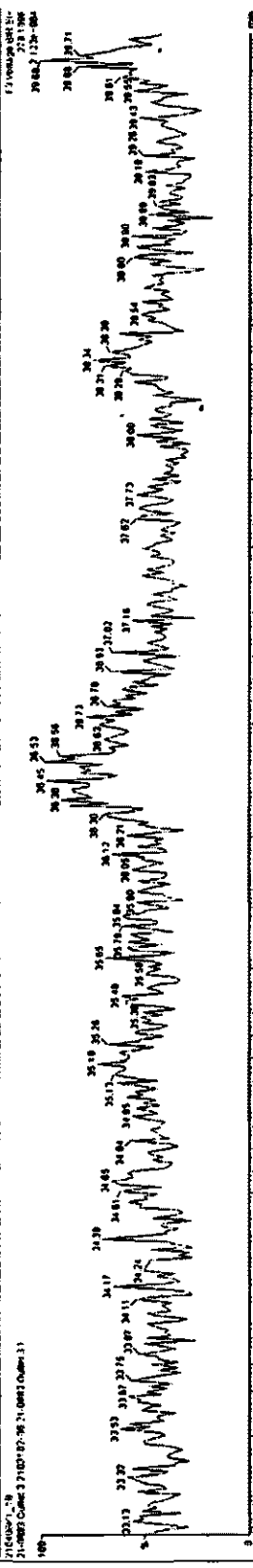
Dibenz(a,h)anthracene
210406K1_18



d14-Dibenz(a,h)anthracene
210406K1_18



| Peak # | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Height/Width | Area/Height | Height/Width | Area/Height |
|--------|----------------------|------|--------|-------|--------------|-------------|--------------|-------------|--------------|-------------|
| 1 | 3.13 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 2 | 3.17 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 3 | 3.21 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 4 | 3.25 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 5 | 3.29 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 6 | 3.33 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 7 | 3.37 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 8 | 3.41 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 9 | 3.45 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 10 | 3.49 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 11 | 3.53 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 12 | 3.57 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 13 | 3.61 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 14 | 3.65 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 15 | 3.69 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 16 | 3.73 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 17 | 3.77 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 18 | 3.81 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 19 | 3.85 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 20 | 3.89 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 21 | 3.93 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 22 | 3.97 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 23 | 4.01 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 24 | 4.05 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 25 | 4.09 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 26 | 4.13 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 27 | 4.17 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 28 | 4.21 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 29 | 4.25 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 30 | 4.29 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 31 | 4.33 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 32 | 4.37 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 33 | 4.41 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 34 | 4.45 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 35 | 4.49 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 36 | 4.53 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 37 | 4.57 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 38 | 4.61 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 39 | 4.65 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 40 | 4.69 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 41 | 4.73 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 42 | 4.77 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 43 | 4.81 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 44 | 4.85 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 45 | 4.89 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 46 | 4.93 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 47 | 4.97 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 48 | 5.01 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 49 | 5.05 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 50 | 5.09 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 51 | 5.13 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 52 | 5.17 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 53 | 5.21 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 54 | 5.25 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 55 | 5.29 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 56 | 5.33 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 57 | 5.37 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 58 | 5.41 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 59 | 5.45 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 60 | 5.49 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 61 | 5.53 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 62 | 5.57 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 63 | 5.61 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 64 | 5.65 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 65 | 5.69 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 66 | 5.73 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 67 | 5.77 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 68 | 5.81 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 69 | 5.85 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 70 | 5.89 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 71 | 5.93 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 72 | 5.97 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 73 | 6.01 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 74 | 6.05 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 75 | 6.09 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 76 | 6.13 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 77 | 6.17 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 78 | 6.21 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 79 | 6.25 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 80 | 6.29 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 81 | 6.33 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 82 | 6.37 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 83 | 6.41 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 84 | 6.45 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 85 | 6.49 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 86 | 6.53 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 87 | 6.57 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 88 | 6.61 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 89 | 6.65 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 90 | 6.69 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 91 | 6.73 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 92 | 6.77 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 93 | 6.81 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 94 | 6.85 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 95 | 6.89 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 96 | 6.93 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 97 | 6.97 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 98 | 7.01 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 99 | 7.05 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |
| 100 | 7.09 | 1000 | 100 | 1.0 | 100 | 1000 | 100 | 1000 | 100 | 1000 |



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-11.qld

Last Altered: Wednesday, April 07, 2021 12:20:20 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:20:54 PM Pacific Daylight Time

Handwritten: H. Y. F. WMA CTOY/PP/PJW

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

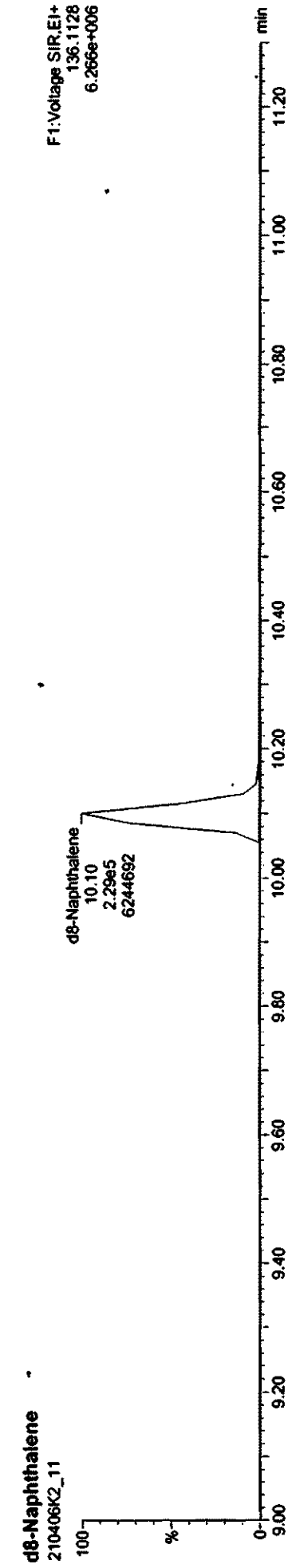
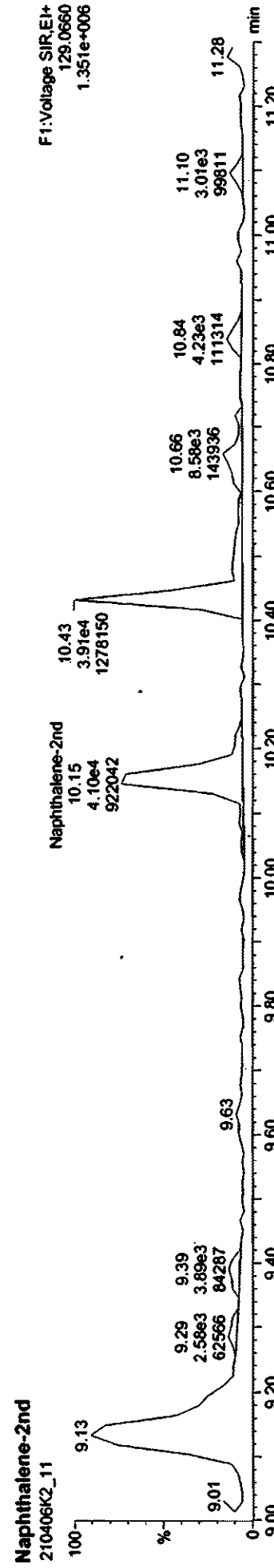
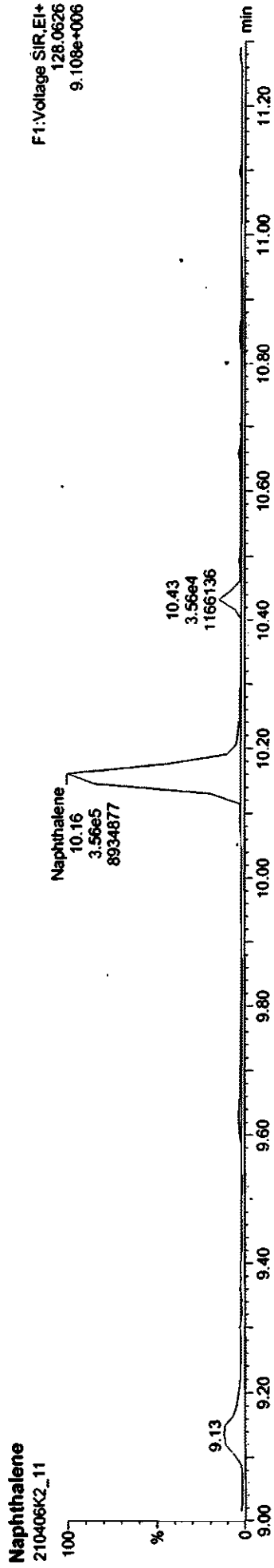
| L. # | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | L.RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|------|------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|-------|
| 5 | Acenaphthene | 4.40e5 | 1.18e5 | 1.10 | 1.000 | 14.68 | 14.69 | 1.006 | 1.006 | NO | 679 | | 26.9 |
| 6 | Fluorene | 1.15e6 | 1.18e5 | 1.15 | 1.000 | 15.92 | 15.92 | 1.006 | 1.006 | NO | 1700 | | 14.7 |
| 7 | Phenanthrene | 2.40e6 | 1.65e5 | 1.19 | 1.000 | 18.32 | 18.32 | 1.002 | 1.002 | NO | 2440 | | 15.3 |
| 24 | d10-Acenaphthene | 1.18e5 | 2.62e5 | 0.594 | 1.000 | 14.60 | 14.60 | 1.226 | 1.225 | NO | 151 | 75.5 | 0.551 |
| 25 | d10-Fluorene | 1.18e5 | 2.62e5 | 0.563 | 1.000 | 15.84 | 15.83 | 1.330 | 1.329 | NO | 159 | 79.6 | 0.575 |
| 26 | d10-Phenanthrene | 1.65e5 | 2.62e5 | 0.735 | 1.000 | 18.26 | 18.28 | 1.533 | 1.535 | NO | 171 | 85.7 | 0.461 |
| 40 | d10-Pyrene | 2.62e5 | 2.62e5 | 1.00 | 1.000 | 20.81 | 20.79 | 1.000 | 1.000 | NO | 200 | 100 | 0.131 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

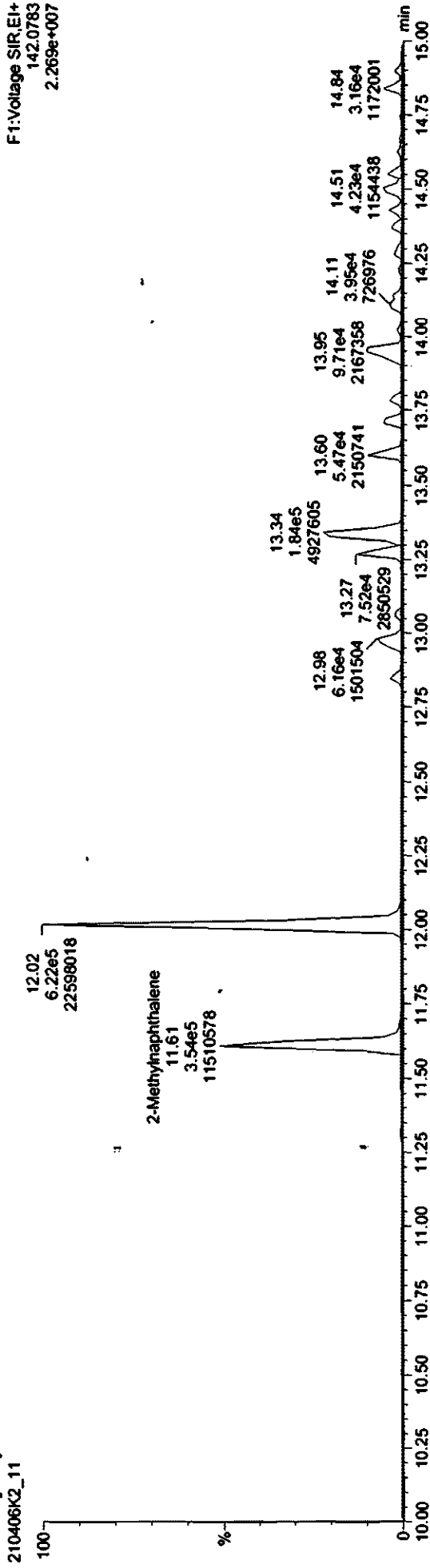


Dataset: Untitled

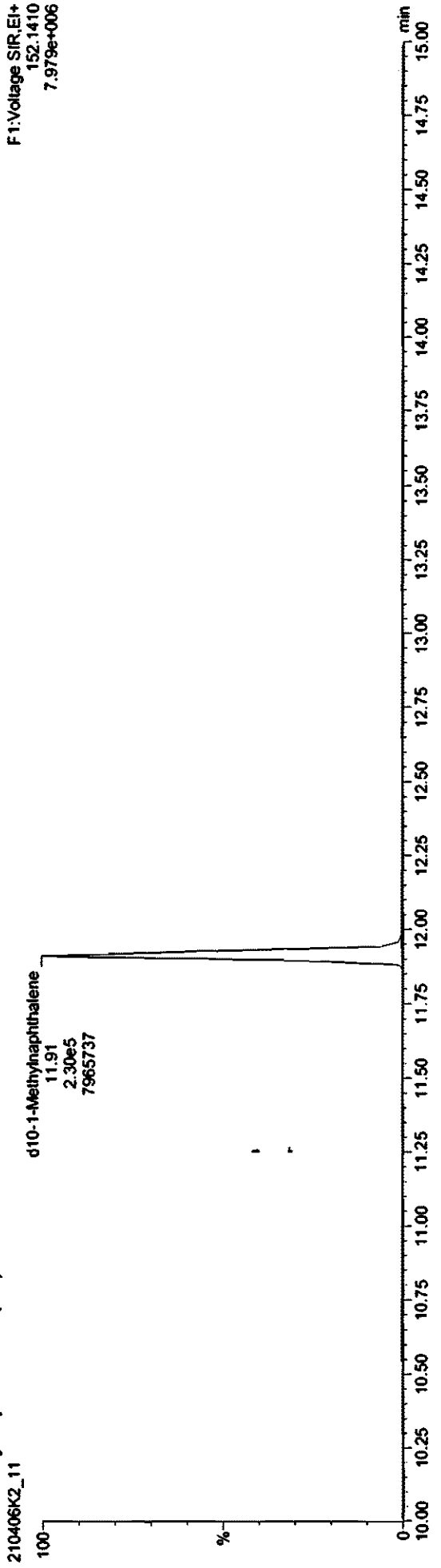
Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

2-Methylnaphthalene



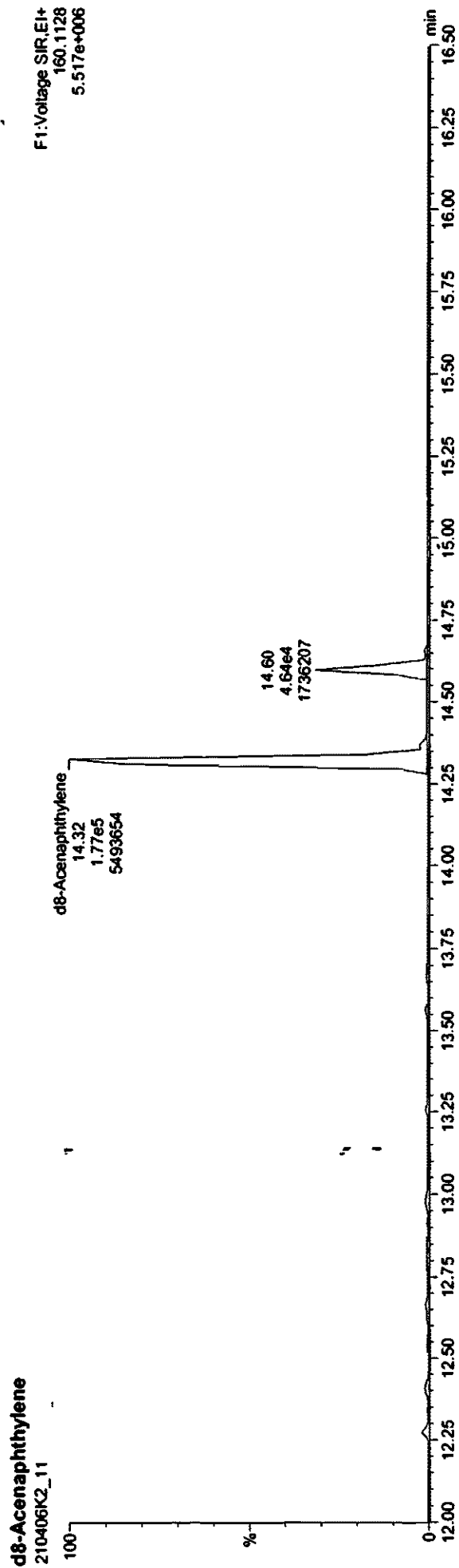
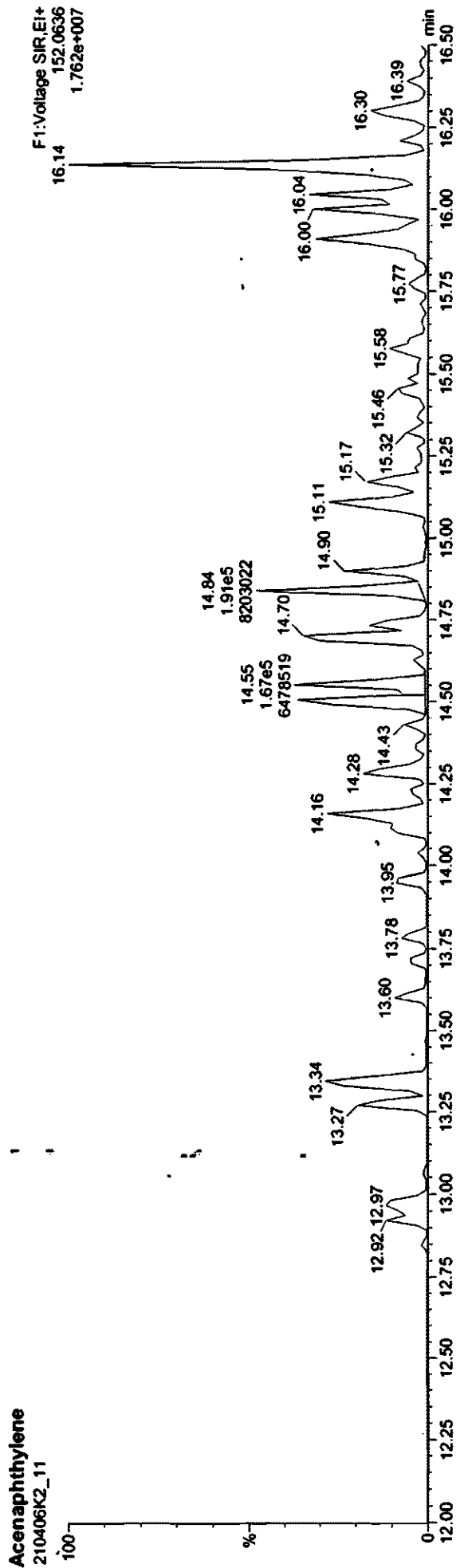
d10-1-Methylnaphthalene (RS)



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

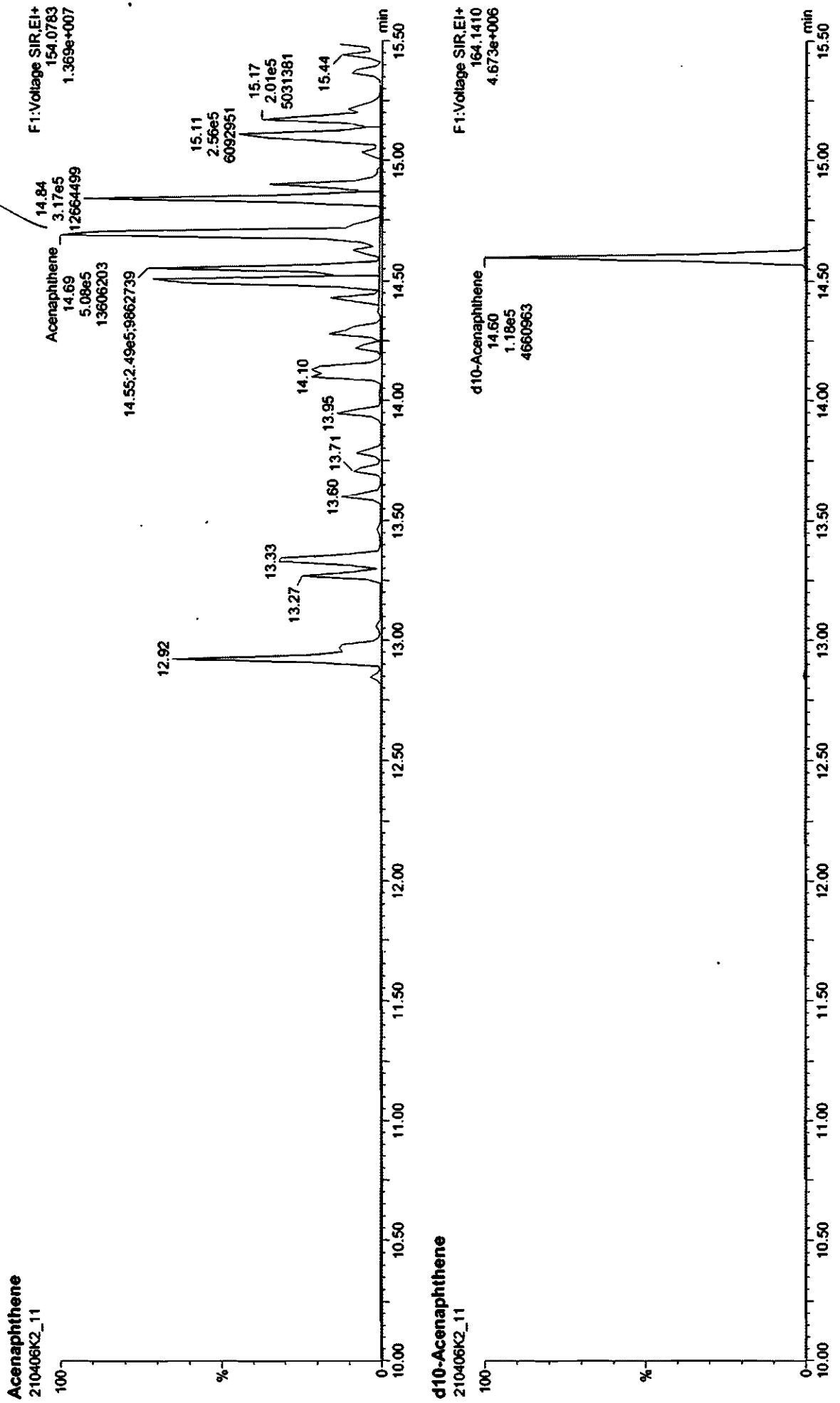
Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

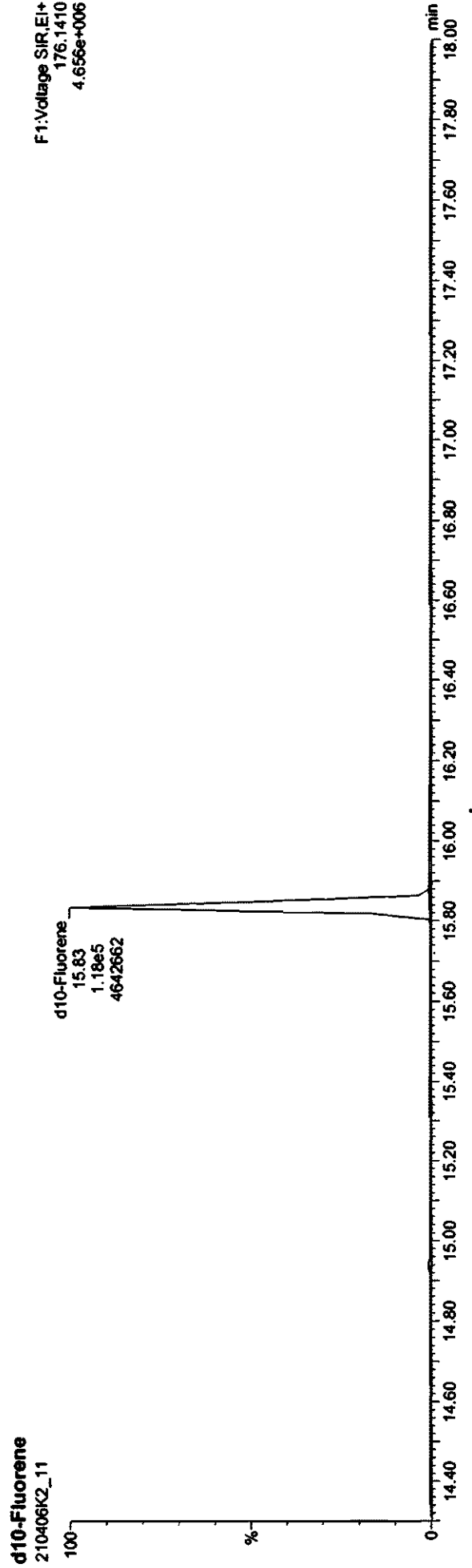
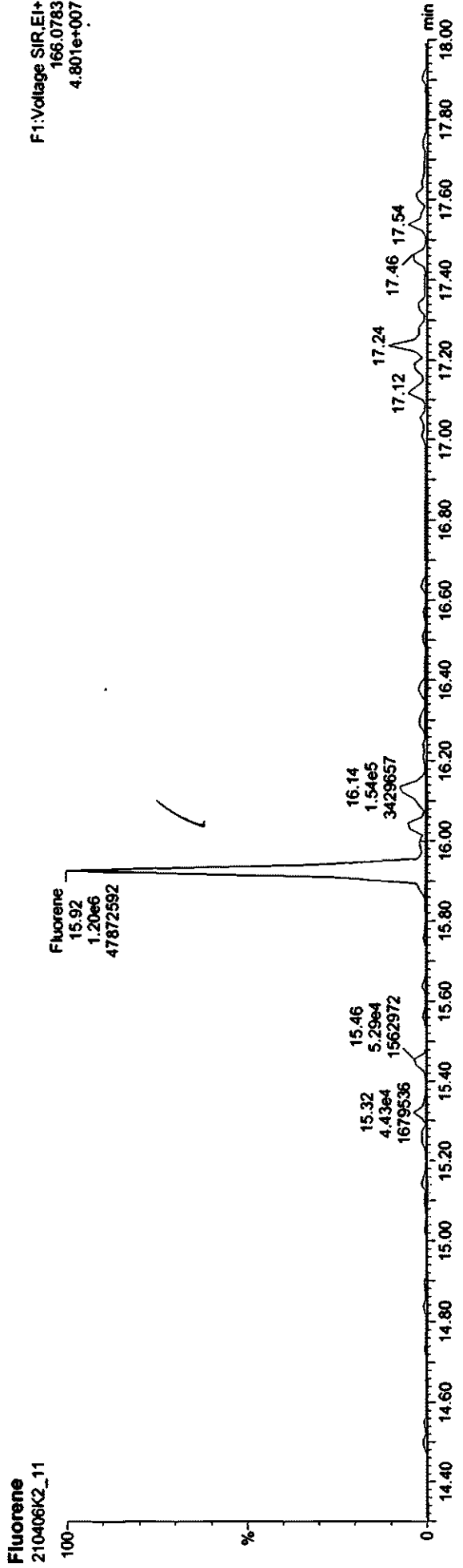


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

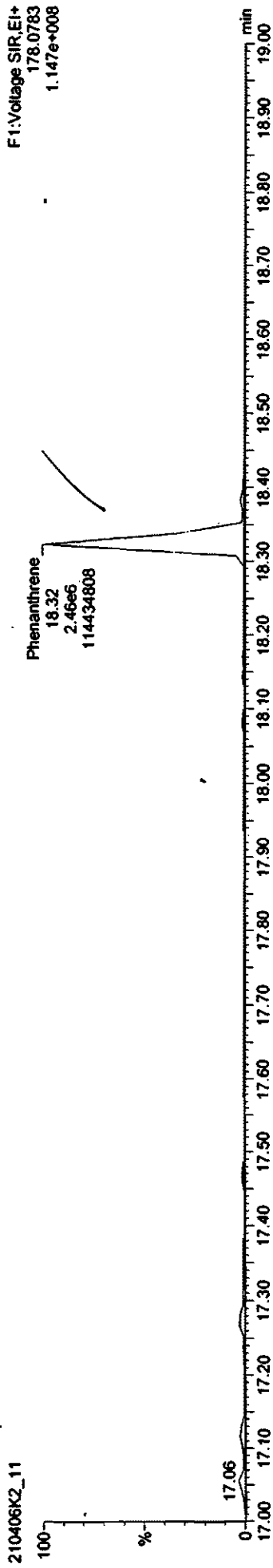


Dataset: Untitled

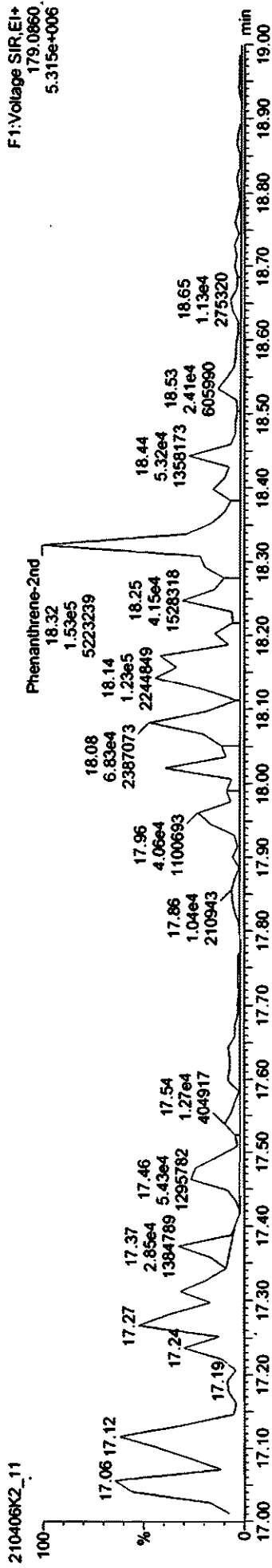
Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

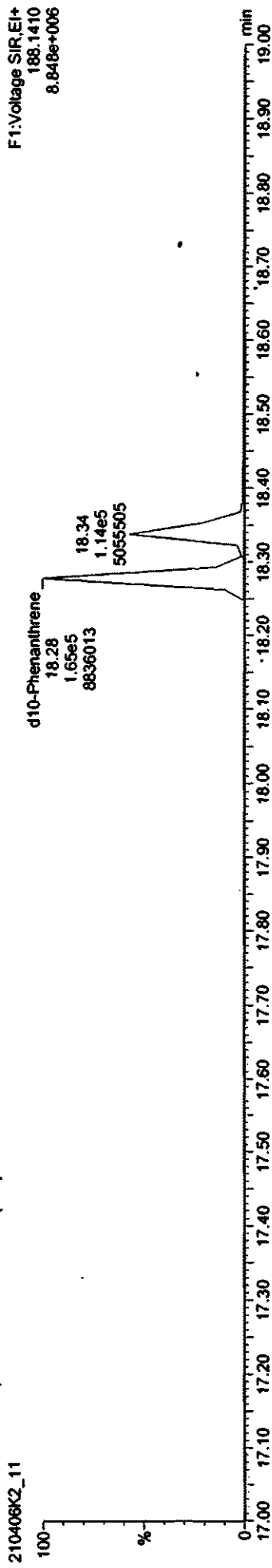
Phenanthrene; Anthrecene



Phenanthrene-2nd



d10-Phenanthrene; d10-Anthrecene (AS)



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

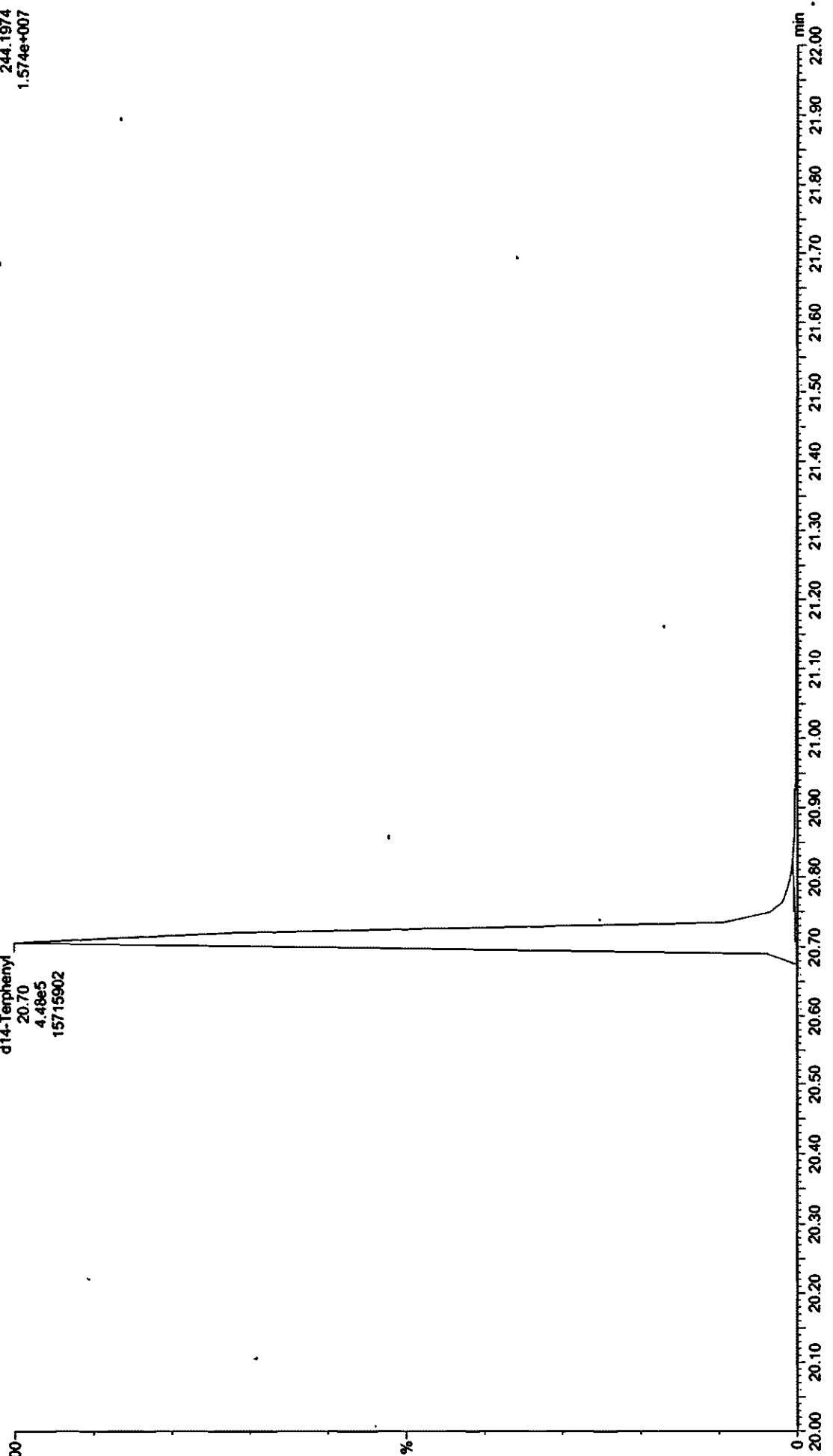
Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

d14-Terphenyl (PS)

210406K2_11

d14-Terphenyl
20.70
4.48e5
15715902

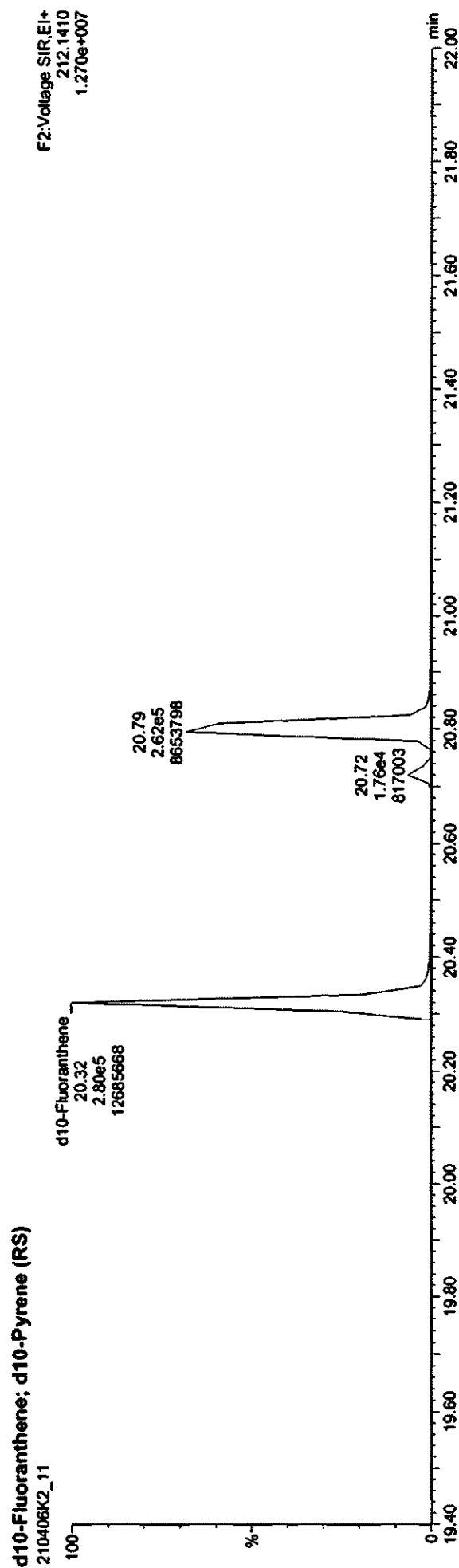
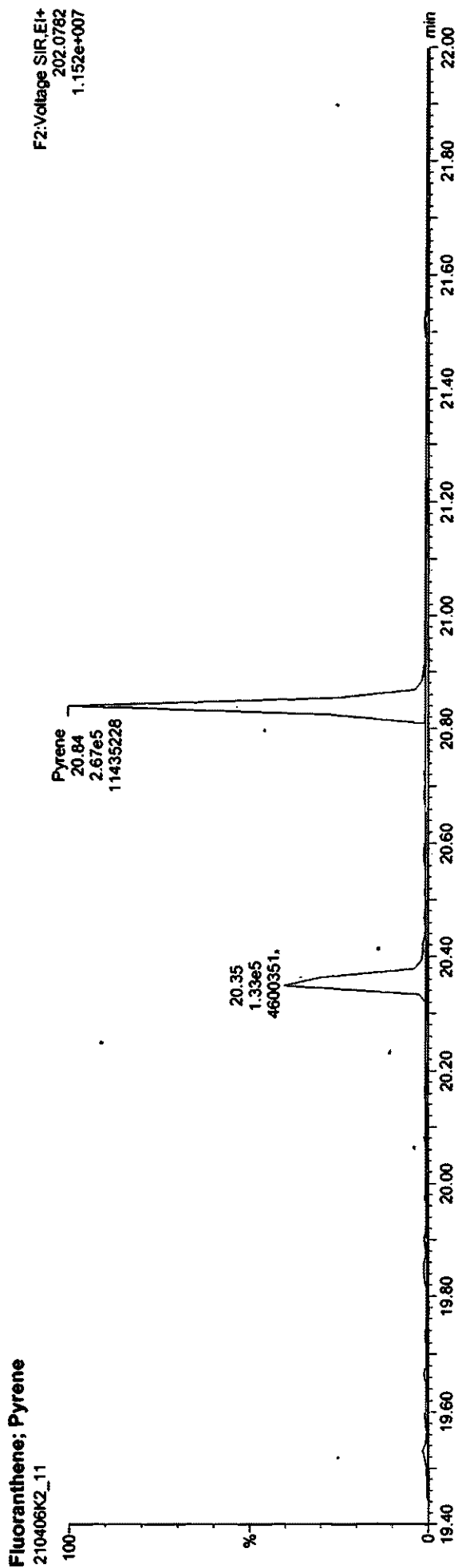
F2:Voltage SIR,EI+
244.1974
1.574e+007



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

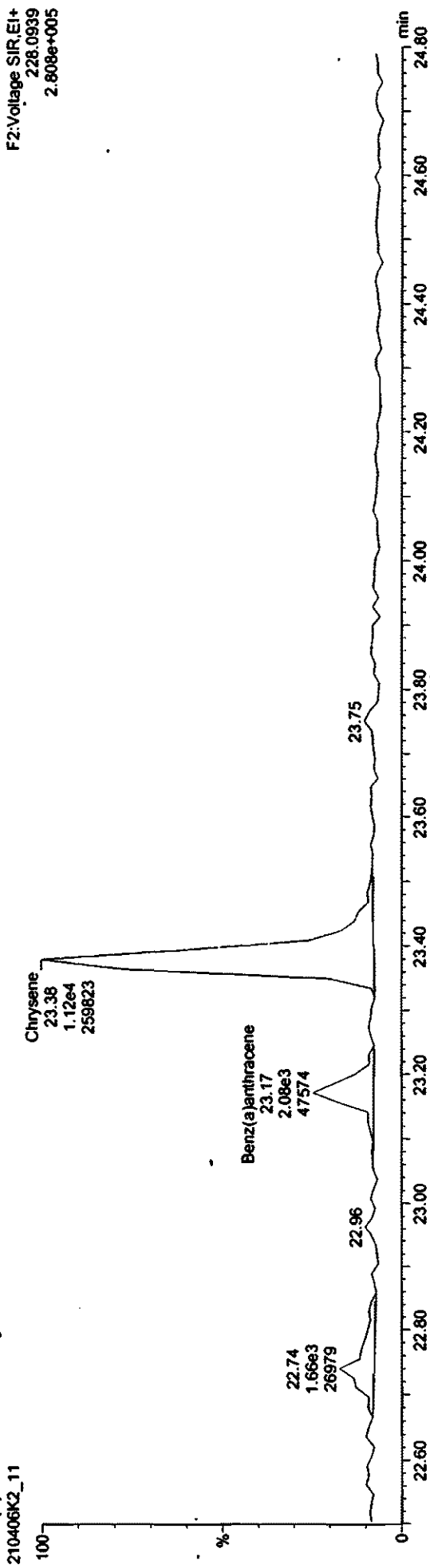


Dataset: Untitled

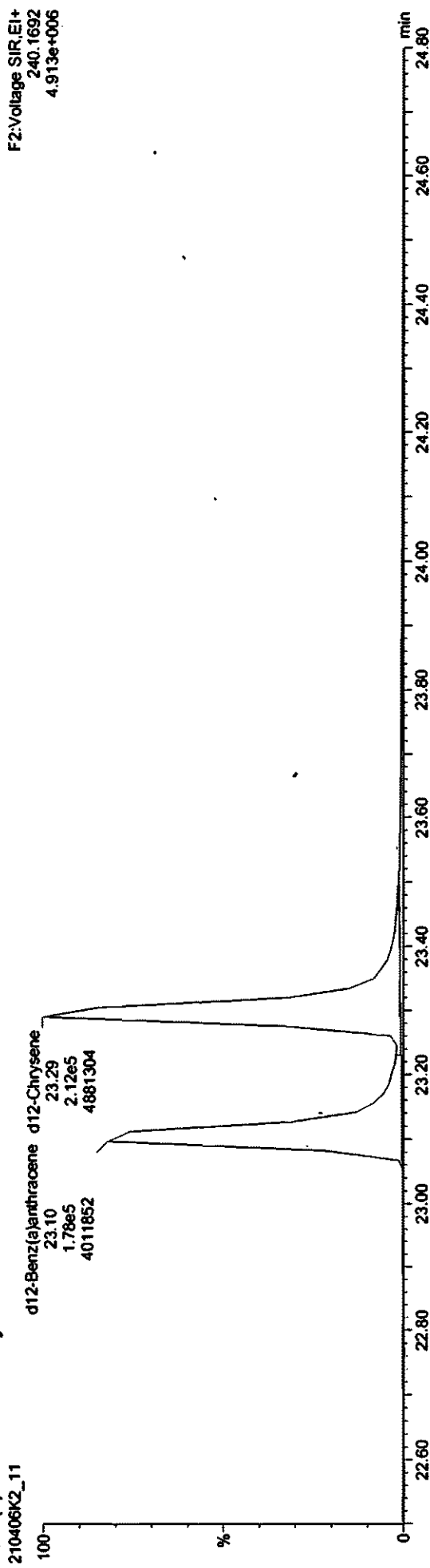
Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

Benz(a)Anthracene-Chrysene



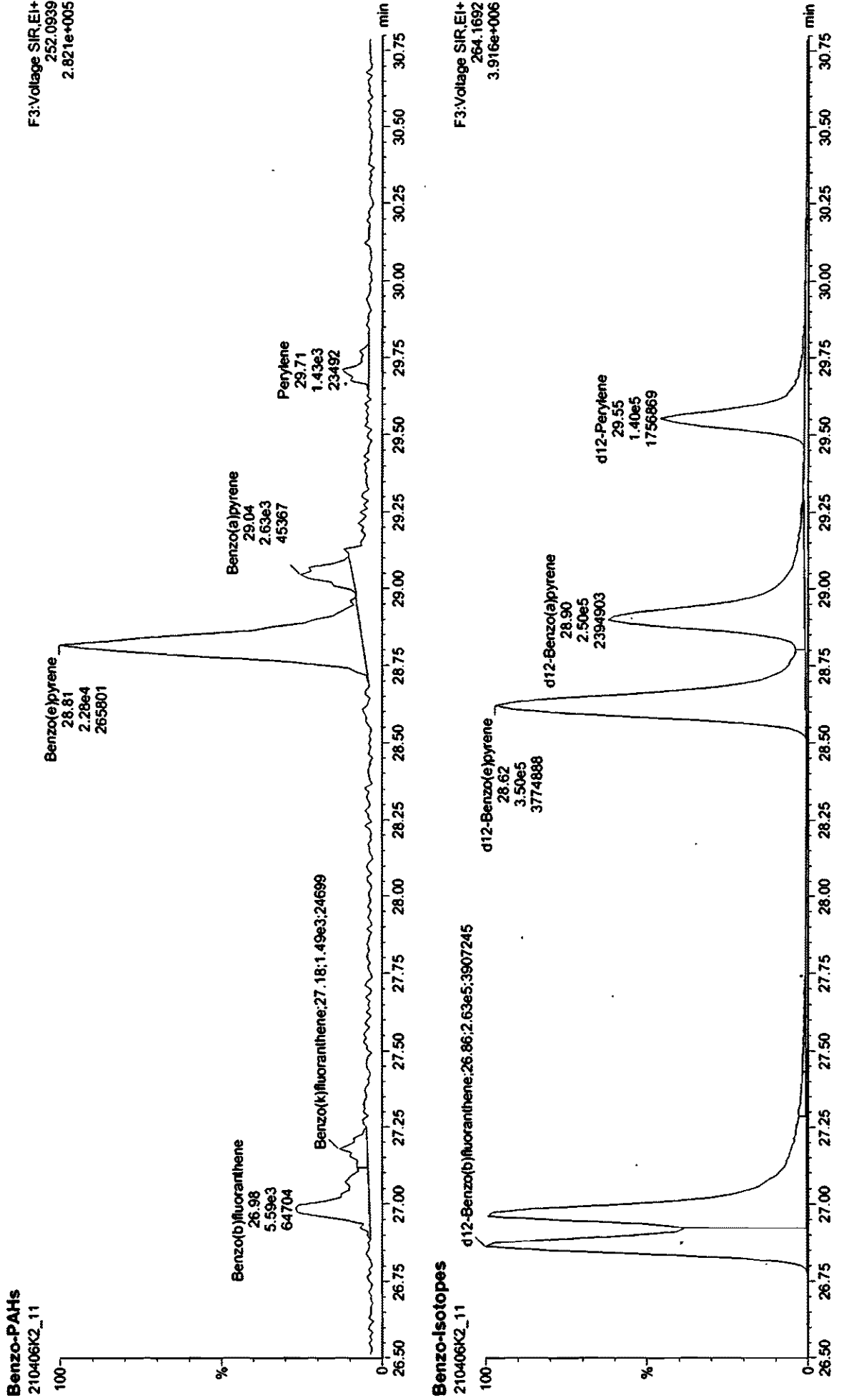
Benz(a)Anthracene-Chrysene-Iso



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3



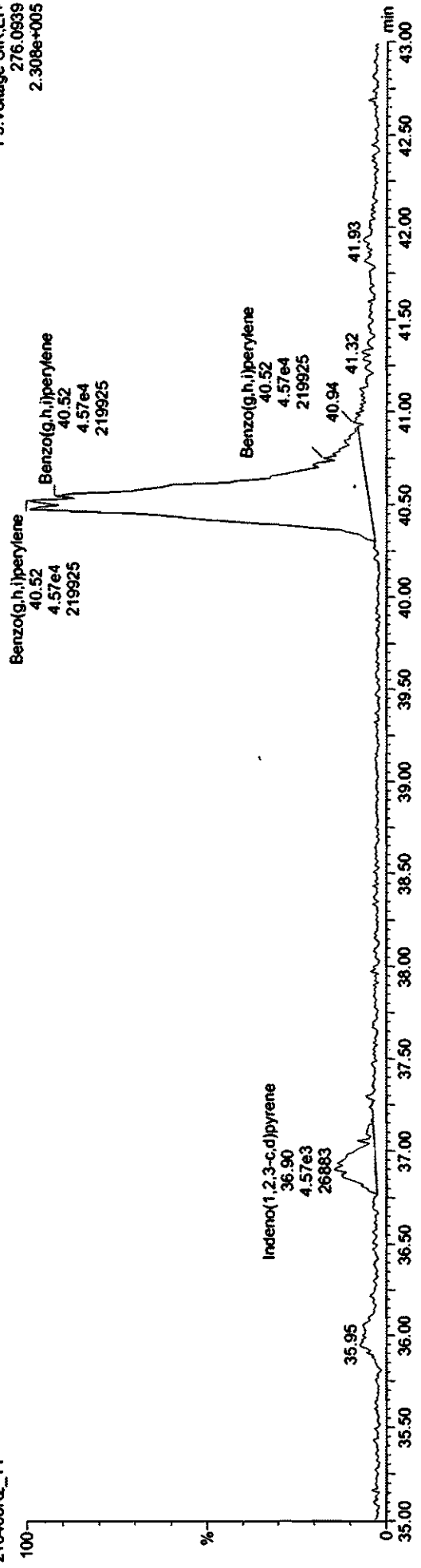
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3

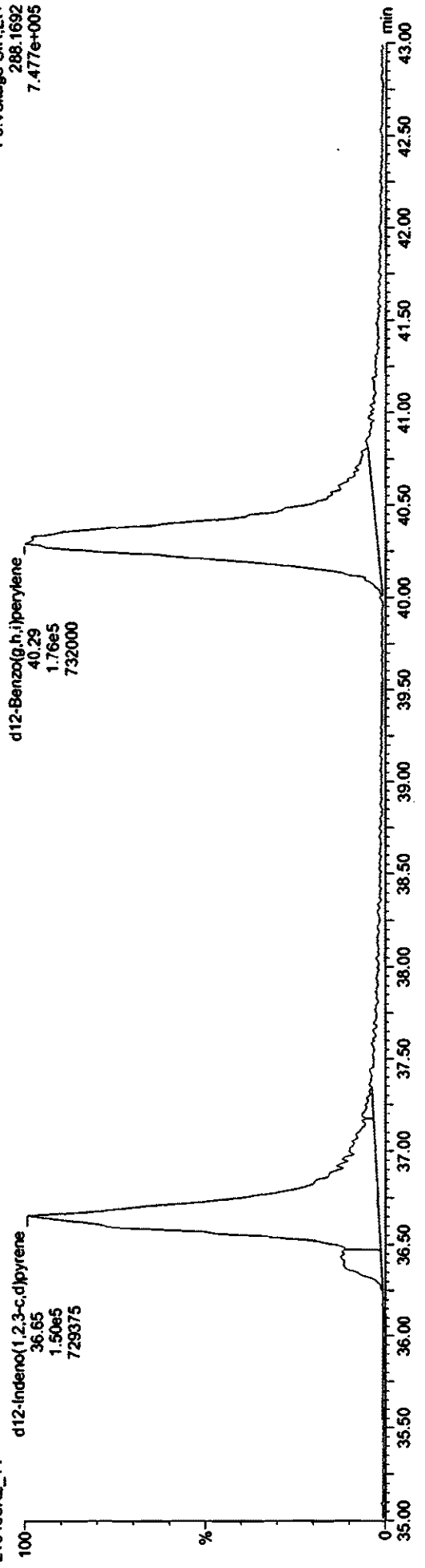
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene
210406K2_11

F3:Voltage SIR,EI+
276.0939
2.308e+005



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene
210406K2_11

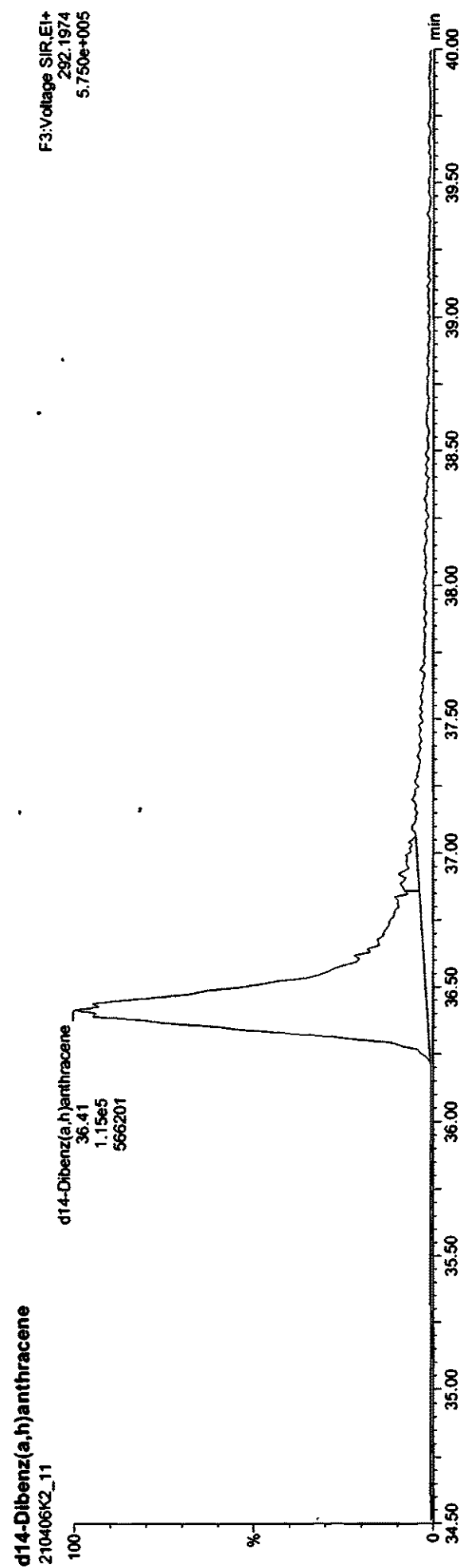
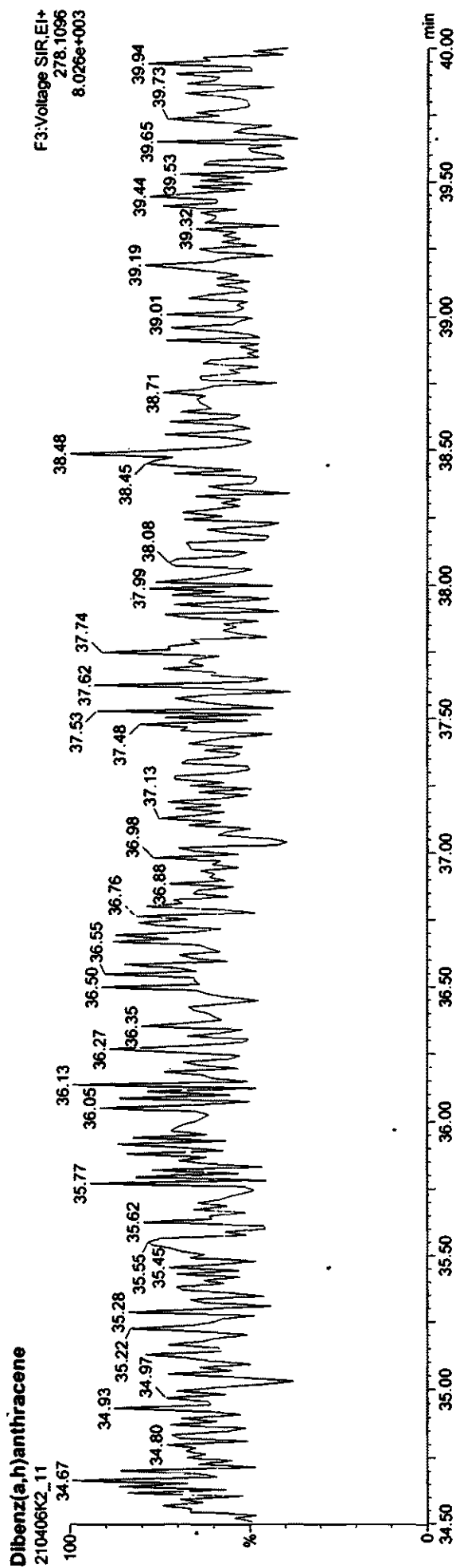
F3:Voltage SIR,EI+
288.1692
7.477e+005



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 12:18:43 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 12:18:52 PM Pacific Daylight Time

Name: 210406K2_11, Date: 07-Apr-2021, Time: 09:56:17, ID: 2103102-06@25X 21-0883 Outlet 3 1, Description: 21-0883 Outlet 3



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-14.qld

Last Altered: Wednesday, April 07, 2021 9:48:29 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 9:49:18 AM Pacific Daylight Time

U.S. W.D.

07/04/08/2021

Method: U:\VG11.PRO\MethDB\IPAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\ib_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB

| # | Name | Resp | IS | Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|--------------------------|--------|--------|--------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 1 | Naphthalene | 4.58e6 | 1.98e6 | 1.16 | 1.000 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 398 | | 0.951 |
| 2 | Naphthalene-2nd | 4.96e5 | 1.98e6 | 0.128 | 1.000 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 391 | | 11.8 |
| 3 | 2-Methylnaphthalene | 1.01e6 | 1.15e6 | 1.38 | 1.000 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 128 | | 0.716 |
| 4 | Acenaphthylene | 2.15e4 | 1.81e6 | 1.12 | 1.000 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 2.13 | | 0.275 |
| 5 | Acenaphthene | 7.03e3 | 1.15e6 | 1.10 | 1.000 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | NO | 1.11 | | 0.494 |
| 6 | Fluorene | 3.52e4 | 1.24e6 | 1.15 | 1.000 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 4.93 | | 0.268 |
| 7 | Phenanthrene | 2.65e5 | 1.95e6 | 1.19 | 1.000 | 1.000 | 18.32 | 18.34 | 1.002 | 1.003 | NO | 22.9 | | 1.46 |
| 8 | Phenanthrene-2nd | 1.46e4 | 1.95e6 | 0.0925 | 1.000 | 1.000 | 18.31 | 18.34 | 1.002 | 1.003 | NO | 16.2 | | 6.03 |
| 9 | Anthracene | 1.55e4 | 1.95e6 | 1.09 | 1.000 | 1.000 | 18.38 | 18.38 | 1.005 | 1.006 | NO | 1.45 | | 1.59 |
| 10 | Fluoranthene | 4.40e5 | 3.22e6 | 1.10 | 1.000 | 1.000 | 20.37 | 20.36 | 1.002 | 1.002 | NO | 24.8 | | 0.0672 |
| 11 | Pyrene | 1.06e6 | 3.22e6 | 1.20 | 1.000 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 54.9 | | 0.0616 |
| 12 | Benz(a)anthracene | 1.27e4 | 2.47e6 | 0.961 | 1.000 | 1.000 | 23.16 | 23.17 | 1.003 | 1.003 | NO | 1.07 | | 0.0845 |
| 13 | Chrysene | 6.14e4 | 2.72e6 | 0.852 | 1.000 | 1.000 | 23.37 | 23.38 | 1.003 | 1.004 | NO | 5.31 | | 0.0886 |
| 14 | Benzo(b)fluoranthene | 6.72e4 | 4.24e6 | 1.10 | 1.000 | 1.000 | 26.94 | 26.94 | 1.005 | 1.005 | NO | 5.74 | | 0.0923 |
| 15 | Benzo(k)fluoranthene | 2.35e4 | 5.25e6 | 1.04 | 1.000 | 1.000 | 27.03 | 27.02 | 1.004 | 1.004 | NO | 1.73 | | 0.0963 |
| 16 | Benzo(e)pyrene | 4.96e5 | 5.25e6 | 0.911 | 1.000 | 1.000 | 28.72 | 28.73 | 1.067 | 1.068 | NO | 41.5 | | 0.110 |
| 17 | Benzo(a)pyrene | 1.33e5 | 4.21e6 | 1.02 | 1.000 | 1.000 | 28.98 | 28.98 | 1.006 | 1.005 | NO | 12.4 | | 0.135 |
| 18 | Perylene | 1.16e4 | 4.21e6 | 0.987 | 1.000 | 1.000 | 29.72 | 29.67 | 1.031 | 1.030 | NO | 1.12 | | 0.139 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.73e5 | 3.24e6 | 0.915 | 1.000 | 1.000 | 36.87 | 36.88 | 1.007 | 1.007 | NO | 23.4 | | 0.517 |
| 20 | Benzo(g,h,i)perylene | 1.39e6 | 3.55e6 | 0.940 | 1.000 | 1.000 | 40.13 | 40.22 | 1.009 | 1.012 | NO | 167 | | 0.463 |
| 21 | Dibenz(a,h)anthracene | 2.77e6 | 0.948 | 1.000 | 1.000 | 1.000 | 36.71 | | 1.011 | | YES | | | 0.389 |
| 22 | d8-Naphthalene | 1.98e6 | 3.01e6 | 1.20 | 1.000 | 1.000 | 10.12 | 10.10 | 0.848 | 0.847 | NO | 110 | 54.8 | 0.0349 |
| 23 | d8-Acenaphthylene | 1.81e6 | 3.01e6 | 0.905 | 1.000 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 133 | 66.4 | 0.115 |
| 24 | d10-Acenaphthene | 1.15e6 | 3.01e6 | 0.594 | 1.000 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 129 | 64.4 | 0.0646 |
| 25 | d10-Fluorene | 1.24e6 | 3.01e6 | 0.563 | 1.000 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 146 | 73.2 | 0.0521 |
| 26 | d10-Phenanthrene | 1.95e6 | 3.01e6 | 0.735 | 1.000 | 1.000 | 18.28 | 18.28 | 1.533 | 1.533 | NO | 176 | 88.2 | 0.0353 |
| 27 | d10-Fluoranthene | 3.22e6 | 3.01e6 | 1.29 | 1.000 | 1.000 | 20.33 | 20.32 | 0.977 | 0.976 | NO | 167 | 83.3 | 0.0175 |
| 28 | d12-Benz(a)anthracene | 2.47e6 | 3.01e6 | 0.900 | 1.000 | 1.000 | 23.11 | 23.10 | 1.110 | 1.110 | NO | 183 | 91.3 | 0.0286 |
| 29 | d12-Chrysene | 2.72e6 | 3.01e6 | 1.02 | 1.000 | 1.000 | 23.30 | 23.29 | 1.120 | 1.119 | NO | 177 | 88.4 | 0.0252 |
| 30 | d12-Benzo(b)fluoranthene | 4.24e6 | 2.19e6 | 1.18 | 1.000 | 1.000 | 26.77 | 26.80 | 0.907 | 0.908 | NO | 328 | 81.9 | 0.152 |
| 31 | d12-Benzo(k)fluoranthene | 5.25e6 | 2.19e6 | 1.50 | 1.000 | 1.000 | 26.88 | 26.91 | 0.911 | 0.912 | NO | 319 | 79.7 | 0.119 |

Quantify Sample Summary Report
 Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-14.qld

Last Altered: Wednesday, April 07, 2021 9:48:29 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 9:49:18 AM Pacific Daylight Time

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB

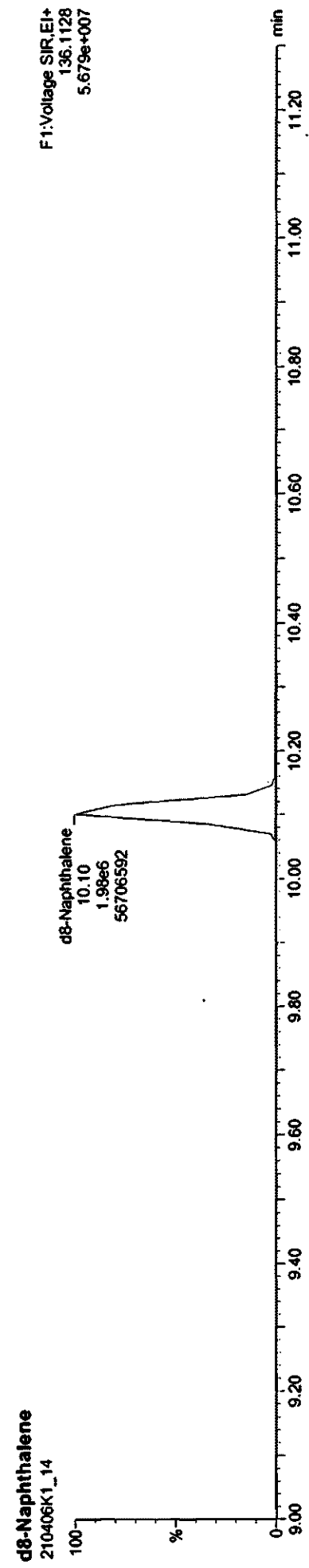
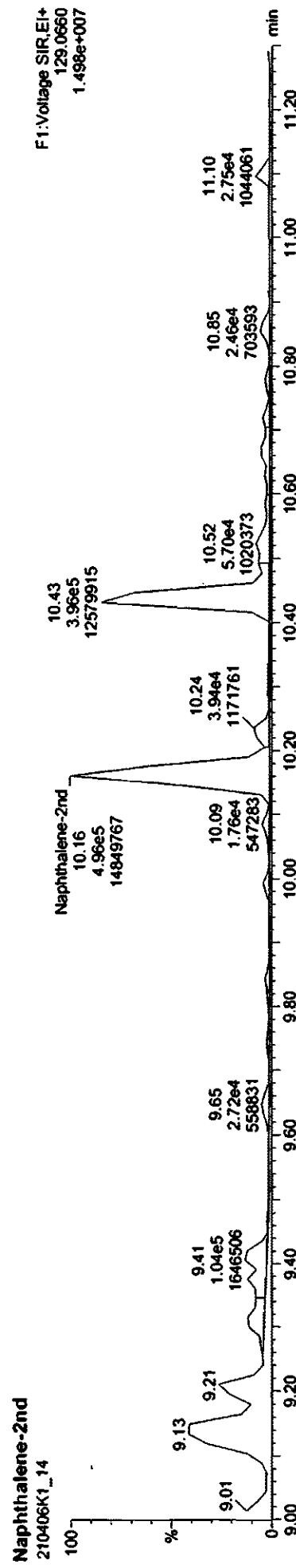
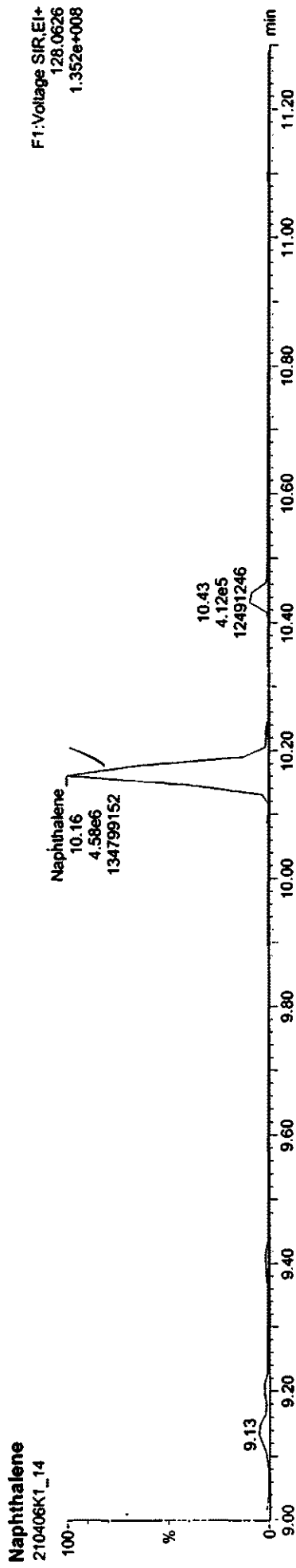
| L# | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DU |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 32 | d12-Benzof(a)pyrene | 4.21e6 | 2.19e6 | 1.24 | 1.000 | 28.77 | 28.81 | 0.975 | 0.977 | NO | 311 | 77.7 | 0.145 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 3.24e6 | 2.19e6 | 1.02 | 1.000 | 36.79 | 36.62 | 1.247 | 1.241 | NO | 290 | 72.6 | 0.218 |
| 34 | d12-Benzof(g,h,i)perylene | 3.55e6 | 2.19e6 | 1.00 | 1.000 | 40.19 | 39.76 | 1.362 | 1.347 | YES | 323 | 80.7 | 0.221 |
| 35 | d14-Dibenz(a,h)anthracene | 2.77e6 | 2.19e6 | 0.765 | 1.000 | 36.57 | 36.30 | 1.239 | 1.230 | NO | 330 | 82.5 | 0.209 |
| 36 | d10-Anthracene | 1.43e6 | 2.19e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 132 | 66.2 | 0.115 |
| 37 | d14-Terphenyl | 5.65e6 | 3.22e6 | 0.576 | 1.000 | 20.69 | 20.72 | 1.018 | 1.020 | NO | 609 | 122 | 0.0297 |
| 38 | d12-Benzof(e)pyrene | 5.22e6 | 5.25e6 | 0.738 | 1.000 | 28.53 | 28.56 | 1.060 | 1.061 | NO | 540 | 108 | 0.182 |
| 39 | d10-1-Methylnaphthalene | 1.83e6 | 1.83e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.0849 |
| 40 | d10-Pyrene | 3.01e6 | 3.01e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 0.0225 |
| 41 | d12-Perylene | 2.19e6 | 2.19e6 | 1.00 | 1.000 | 29.59 | 29.50 | 1.000 | 1.000 | NO | 200 | 100 | 0.179 |

Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

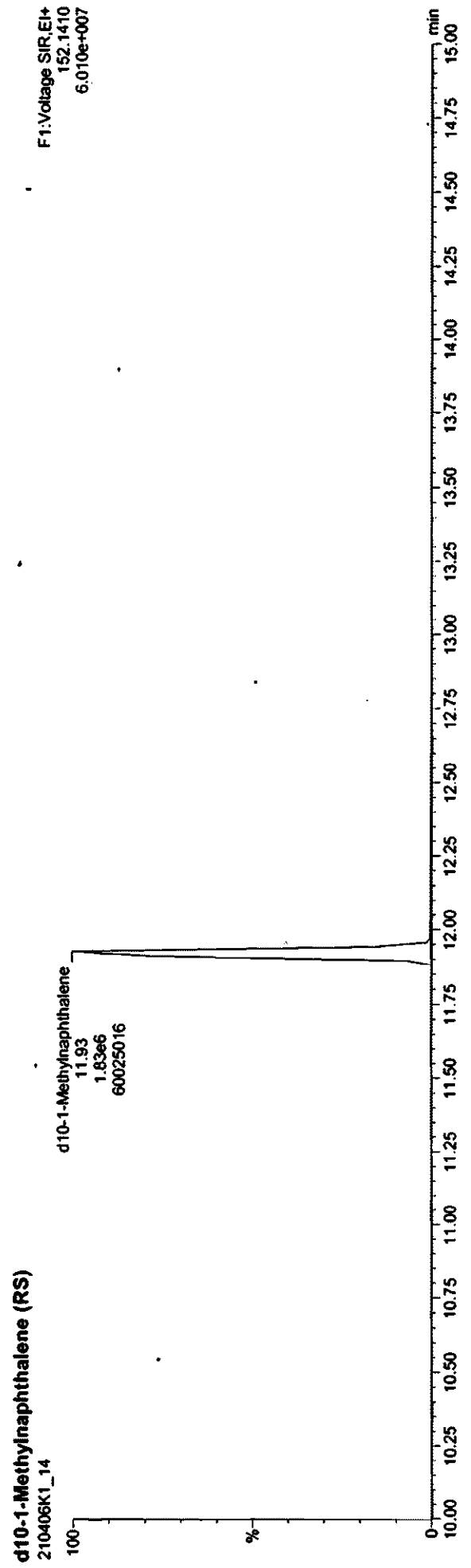
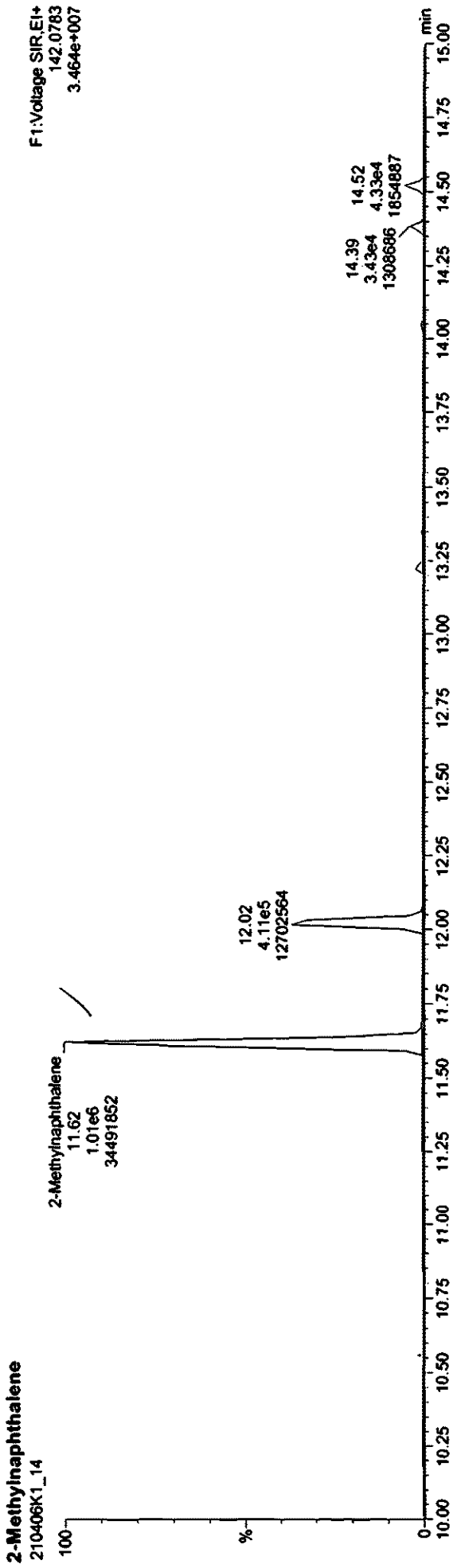
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Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

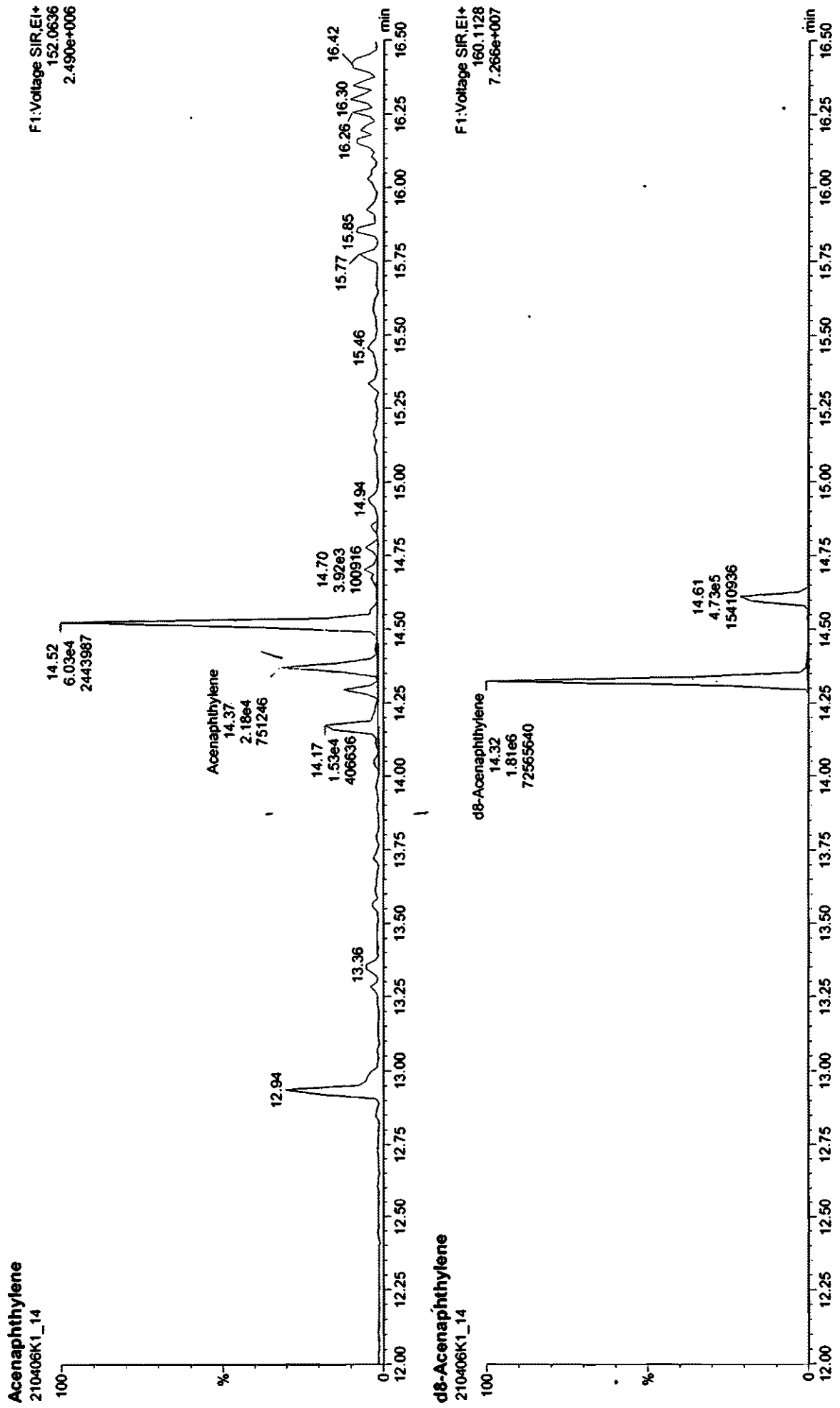
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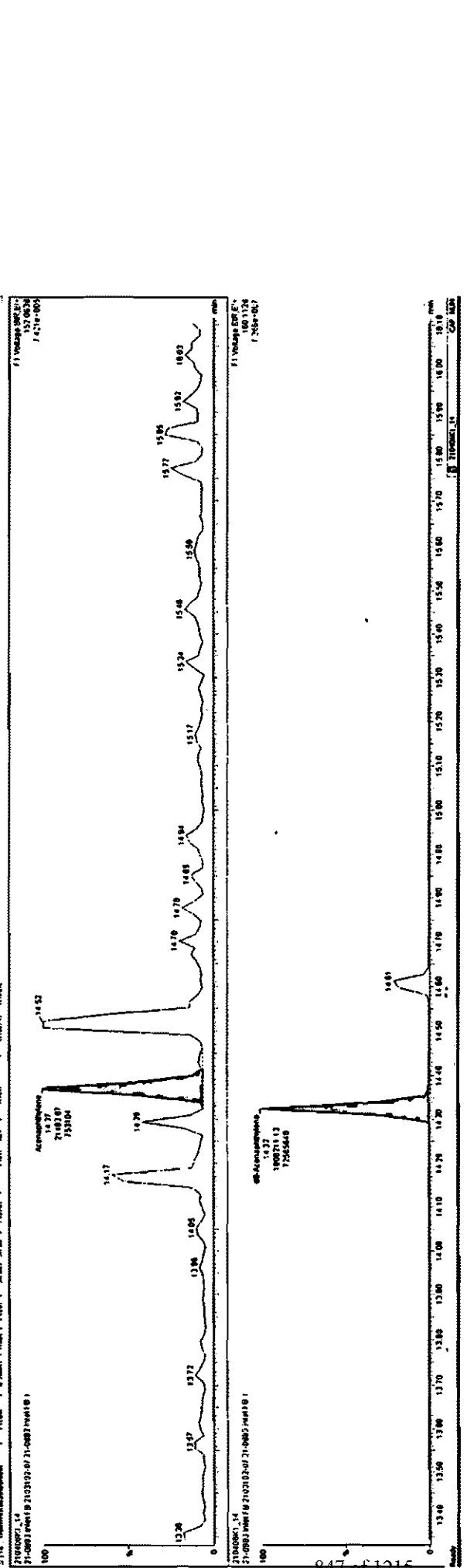
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0863 Inlet FB 1, Description: 21-0863 Inlet FB



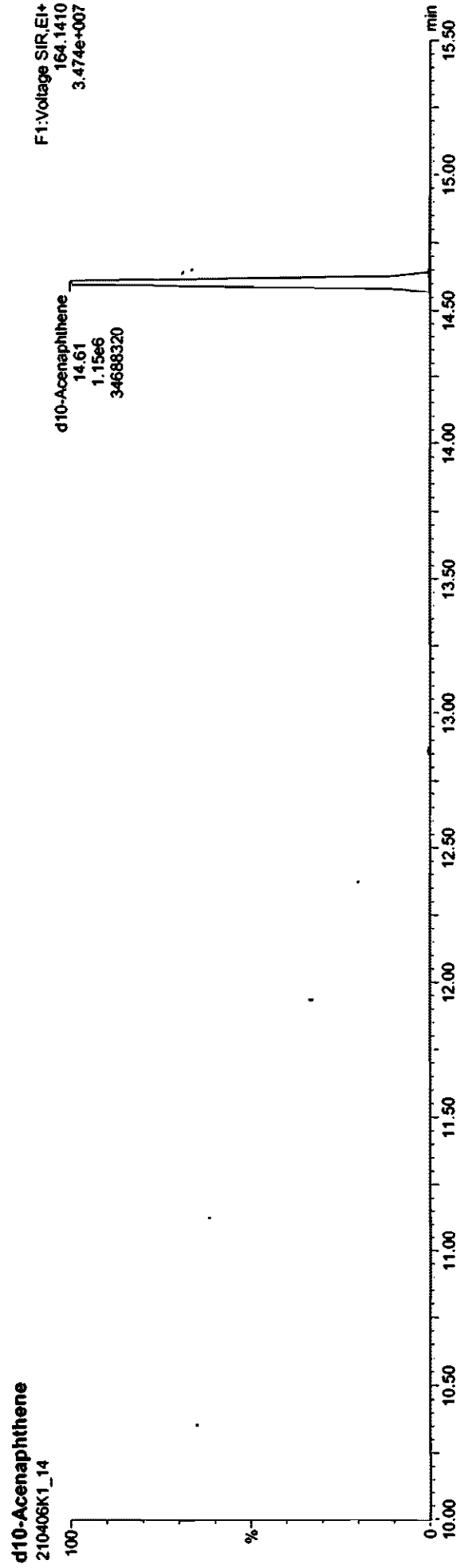
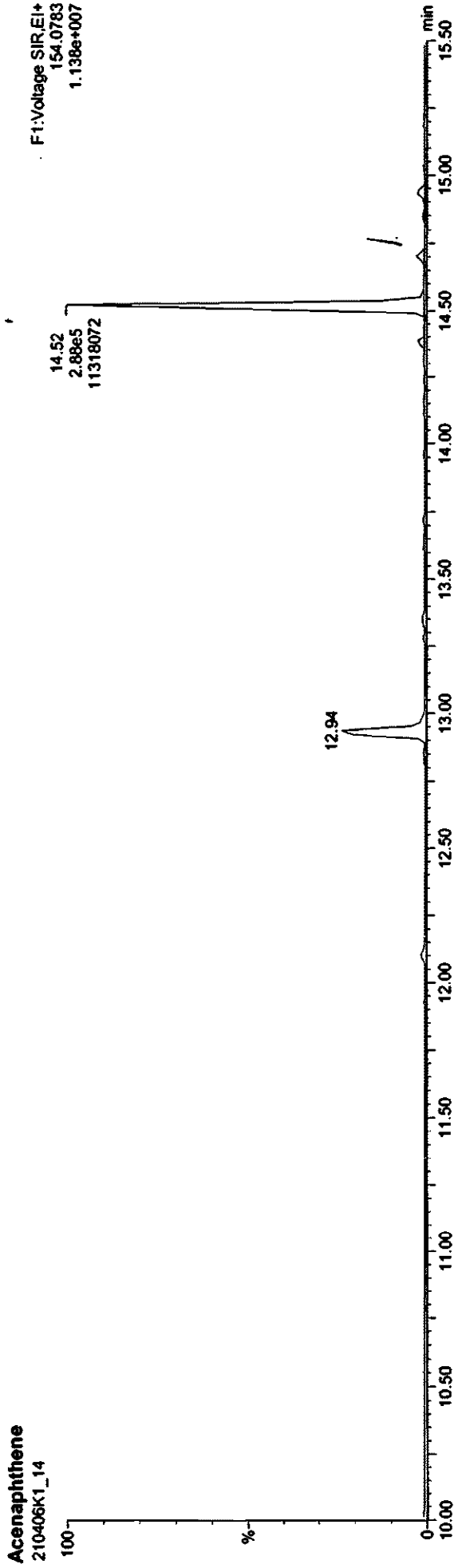
| Peak | RT | Area | Height | Width | RT | Area | Height | Width | RT | Area | Height | Width |
|------|-------|----------|----------|----------|-------|----------|----------|----------|-------|----------|----------|----------|
| 1 | 13.26 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.26 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.26 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 2 | 13.47 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.47 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.47 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 3 | 13.72 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.72 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.72 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 4 | 13.98 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.98 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 13.98 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 5 | 14.04 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.04 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.04 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 6 | 14.17 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.17 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.17 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 7 | 14.37 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.37 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.37 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 8 | 14.53 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.53 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.53 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 9 | 14.79 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.79 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.79 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 10 | 14.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 14.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 11 | 15.04 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.04 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.04 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 12 | 15.17 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.17 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.17 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 13 | 15.26 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.26 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.26 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 14 | 15.48 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.48 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.48 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 15 | 15.59 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.59 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.59 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 16 | 15.77 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.77 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.77 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 17 | 15.86 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.86 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.86 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 18 | 15.93 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.93 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 15.93 | 1.00E+05 | 1.00E+05 | 1.00E+05 |
| 19 | 16.03 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 16.03 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 16.03 | 1.00E+05 | 1.00E+05 | 1.00E+05 |



Dataset: Untitled

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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

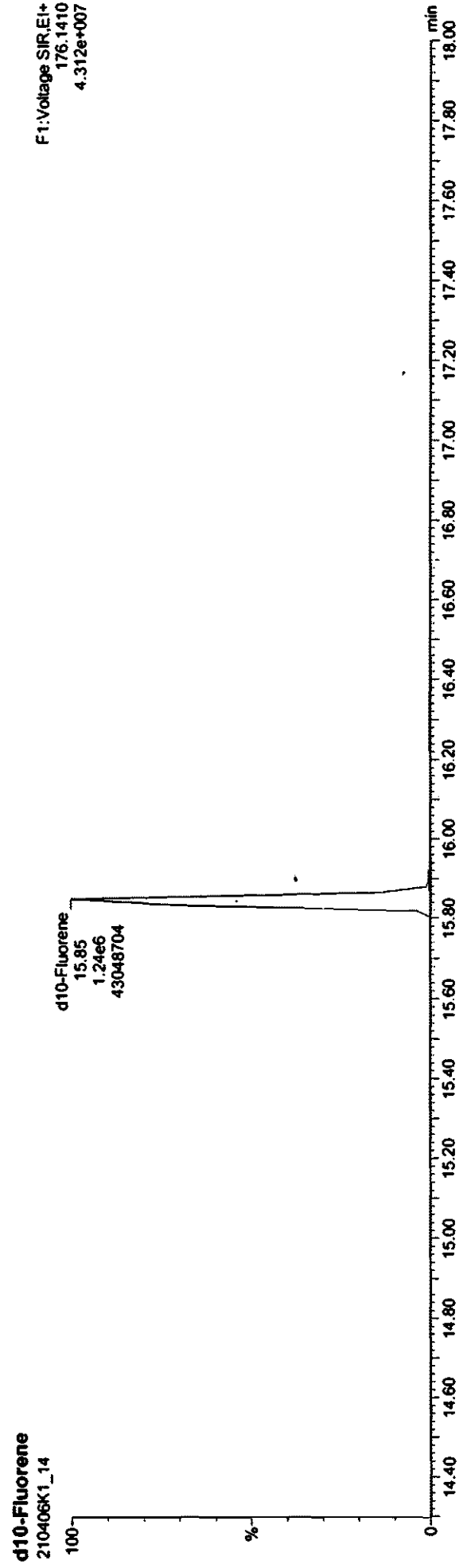
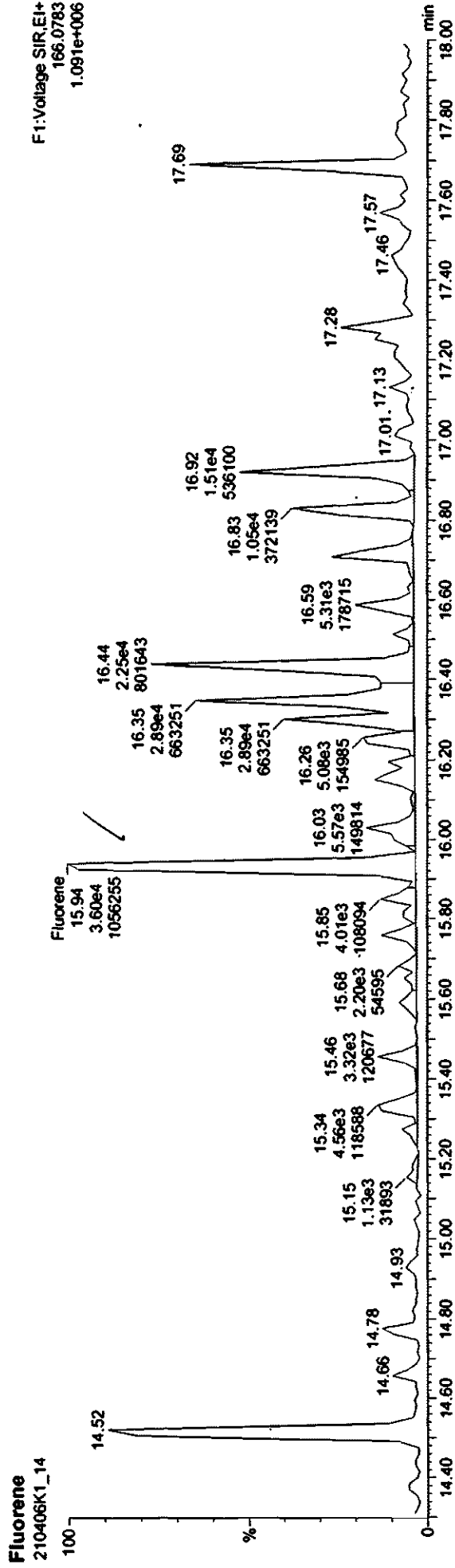
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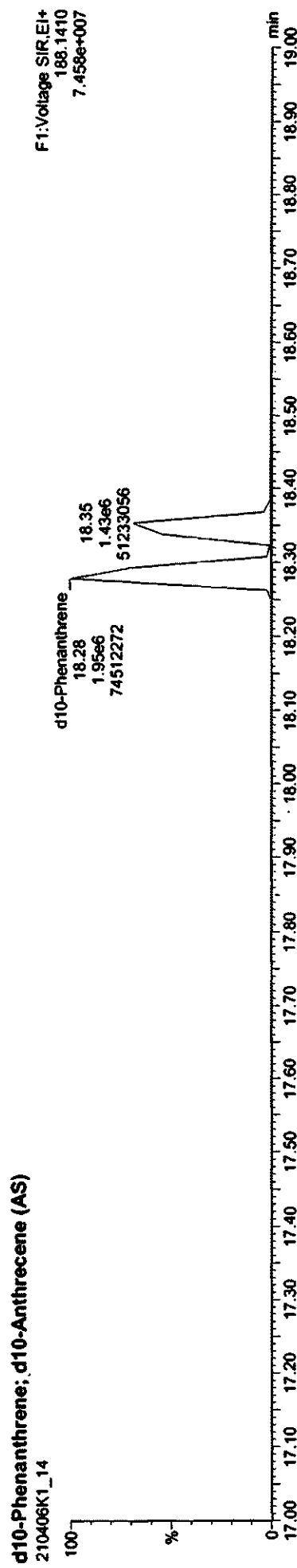
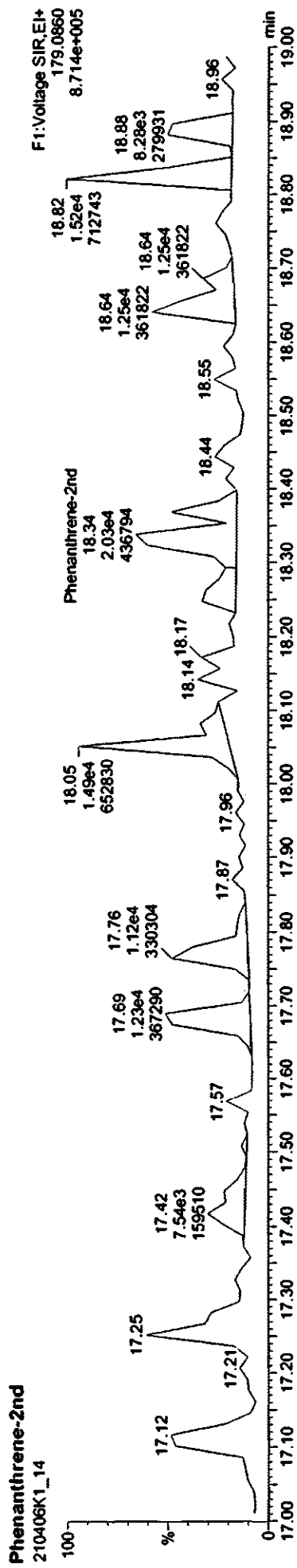
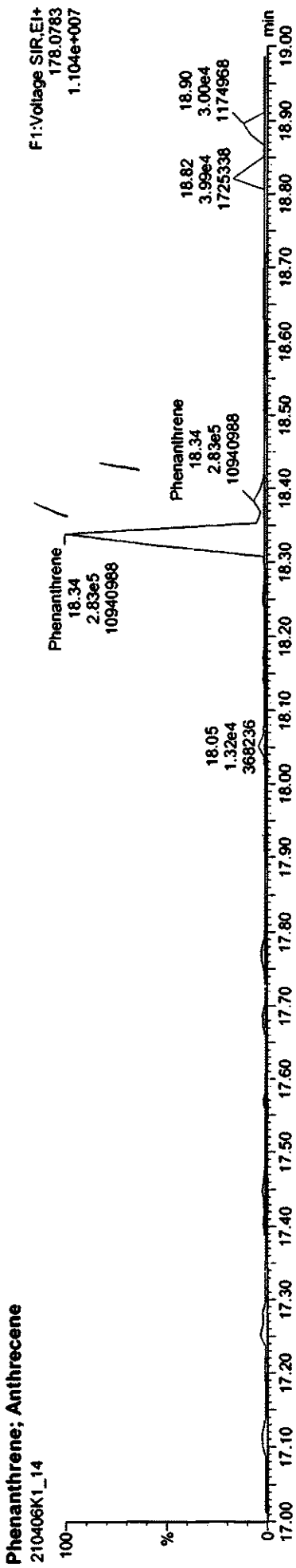
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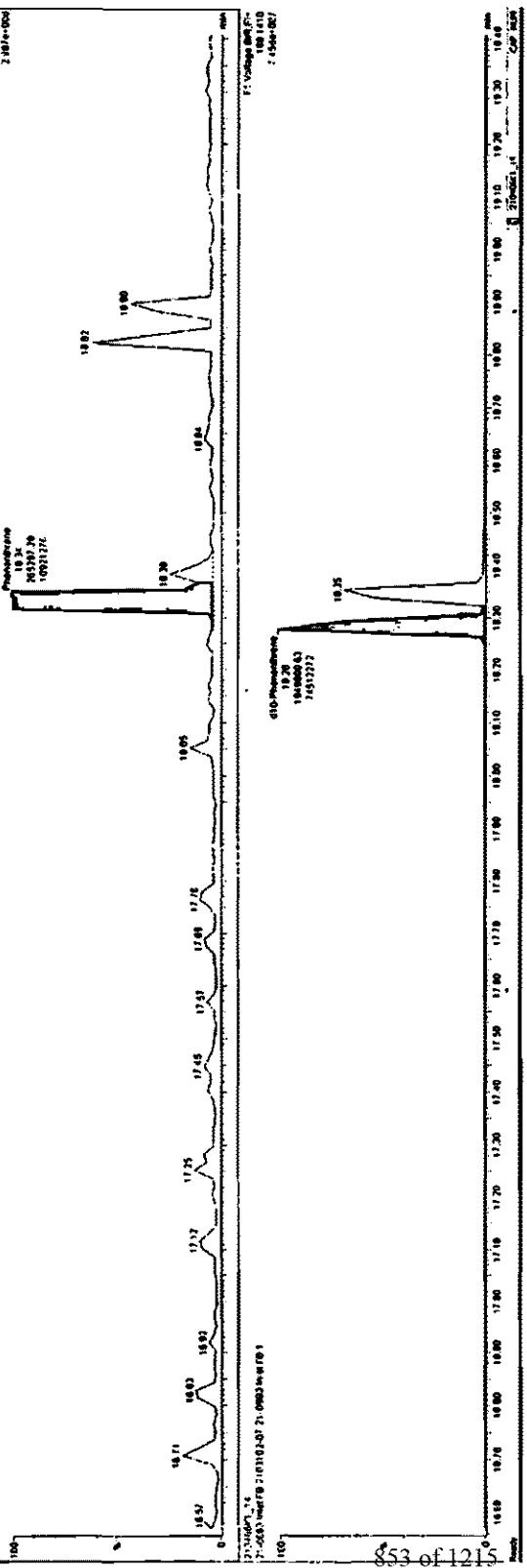
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB



| Peak # | Retention Time (min) | Area | Height | Width | Integration | Area% | Height% |
|--------|----------------------|-------|--------|-------|-------------|-------|---------|
| 1 | 18.57 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 2 | 18.71 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 3 | 18.80 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 4 | 18.95 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 5 | 19.05 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 6 | 19.30 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 7 | 19.35 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 8 | 19.82 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 9 | 19.90 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 10 | 20.00 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 11 | 20.05 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 12 | 20.10 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 13 | 20.15 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 14 | 20.20 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 15 | 20.25 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 16 | 20.30 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 17 | 20.35 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 18 | 20.40 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 19 | 20.45 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 20 | 20.50 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 21 | 20.55 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 22 | 20.60 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 23 | 20.65 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 24 | 20.70 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 25 | 20.75 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 26 | 20.80 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 27 | 20.85 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 28 | 20.90 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 29 | 20.95 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |
| 30 | 21.00 | 10000 | 1000 | 1.00 | 1.00 | 0.00 | 0.00 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

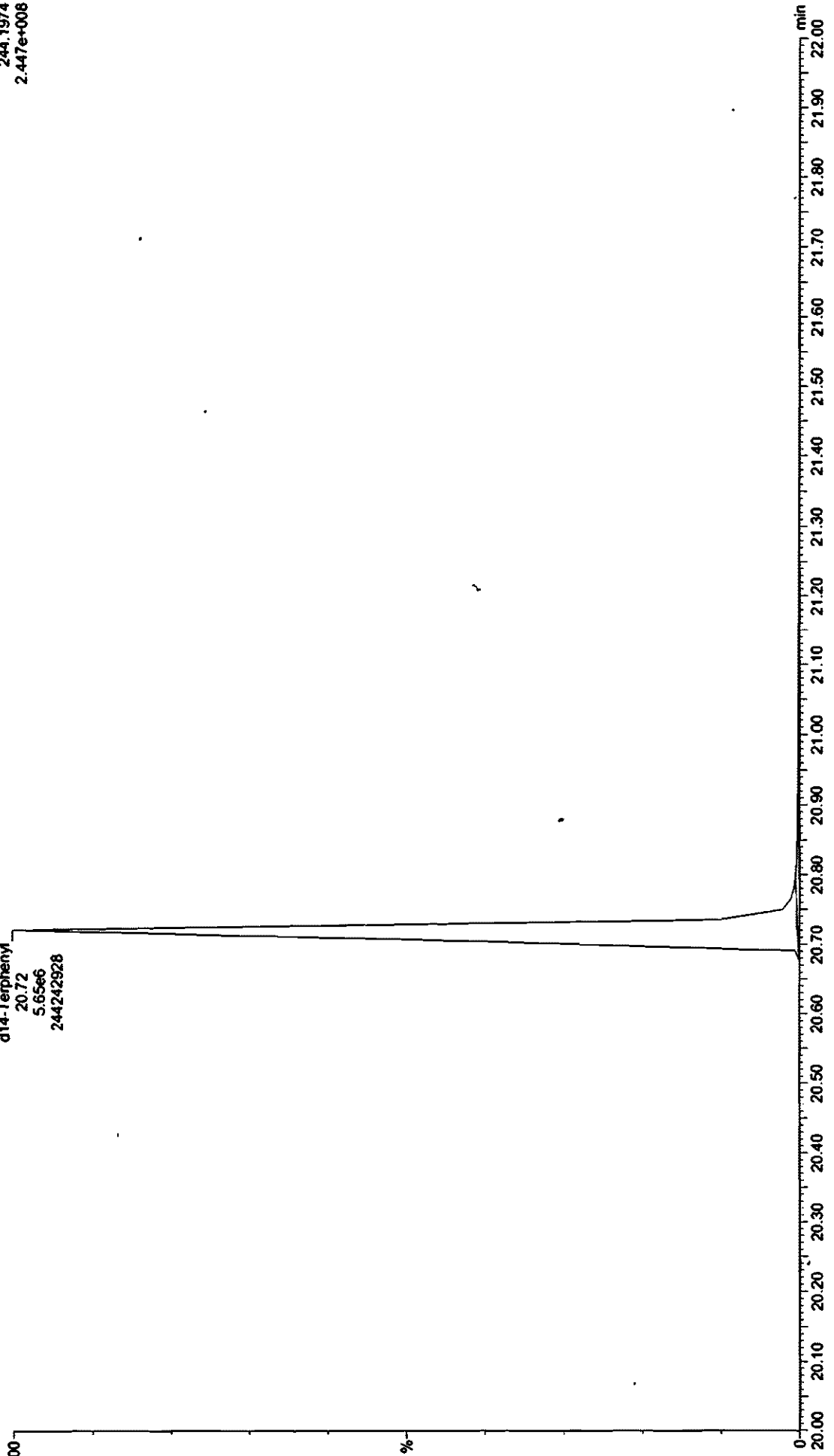
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB

d14-Terphenyl (PS)
210406K1_14

F2:Voltage SIR,EI+
244.1974
2.447e+008

d14-Terphenyl
20.72
5.65e6
244242928



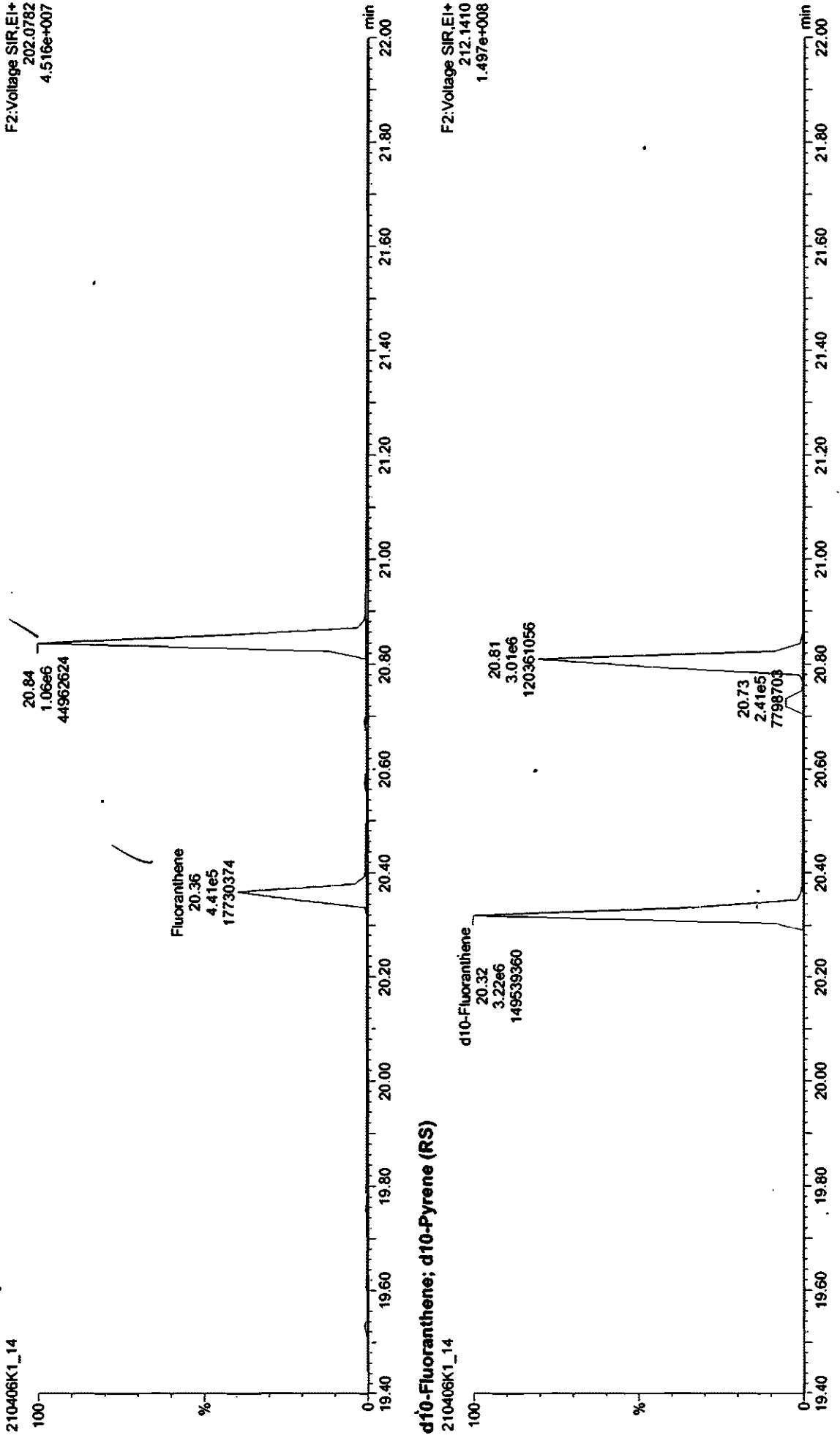
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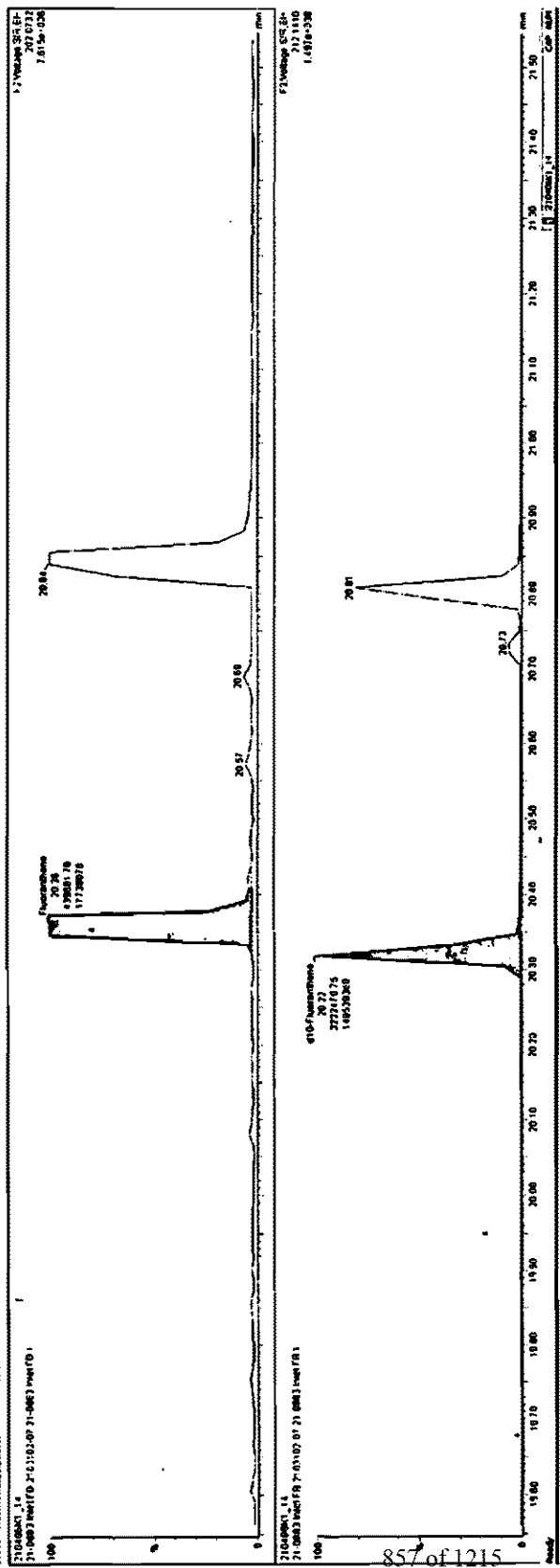
Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB

Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
4.516e+007



| Peak | RT | Area | Height | Wt% | Conc | Label |
|------|-------|---------|--------|-----|------|-------|
| 1 | 19.86 | 1000000 | 100000 | 100 | 100 | 19.86 |
| 2 | 20.00 | 1000000 | 100000 | 100 | 100 | 20.00 |
| 3 | 20.14 | 1000000 | 100000 | 100 | 100 | 20.14 |
| 4 | 20.28 | 1000000 | 100000 | 100 | 100 | 20.28 |
| 5 | 20.42 | 1000000 | 100000 | 100 | 100 | 20.42 |
| 6 | 20.56 | 1000000 | 100000 | 100 | 100 | 20.56 |
| 7 | 20.70 | 1000000 | 100000 | 100 | 100 | 20.70 |
| 8 | 20.84 | 1000000 | 100000 | 100 | 100 | 20.84 |
| 9 | 20.98 | 1000000 | 100000 | 100 | 100 | 20.98 |
| 10 | 21.12 | 1000000 | 100000 | 100 | 100 | 21.12 |
| 11 | 21.26 | 1000000 | 100000 | 100 | 100 | 21.26 |
| 12 | 21.40 | 1000000 | 100000 | 100 | 100 | 21.40 |
| 13 | 21.54 | 1000000 | 100000 | 100 | 100 | 21.54 |
| 14 | 21.68 | 1000000 | 100000 | 100 | 100 | 21.68 |
| 15 | 21.82 | 1000000 | 100000 | 100 | 100 | 21.82 |
| 16 | 21.96 | 1000000 | 100000 | 100 | 100 | 21.96 |
| 17 | 22.10 | 1000000 | 100000 | 100 | 100 | 22.10 |
| 18 | 22.24 | 1000000 | 100000 | 100 | 100 | 22.24 |
| 19 | 22.38 | 1000000 | 100000 | 100 | 100 | 22.38 |
| 20 | 22.52 | 1000000 | 100000 | 100 | 100 | 22.52 |
| 21 | 22.66 | 1000000 | 100000 | 100 | 100 | 22.66 |
| 22 | 22.80 | 1000000 | 100000 | 100 | 100 | 22.80 |
| 23 | 22.94 | 1000000 | 100000 | 100 | 100 | 22.94 |
| 24 | 23.08 | 1000000 | 100000 | 100 | 100 | 23.08 |
| 25 | 23.22 | 1000000 | 100000 | 100 | 100 | 23.22 |
| 26 | 23.36 | 1000000 | 100000 | 100 | 100 | 23.36 |
| 27 | 23.50 | 1000000 | 100000 | 100 | 100 | 23.50 |
| 28 | 23.64 | 1000000 | 100000 | 100 | 100 | 23.64 |
| 29 | 23.78 | 1000000 | 100000 | 100 | 100 | 23.78 |
| 30 | 23.92 | 1000000 | 100000 | 100 | 100 | 23.92 |
| 31 | 24.06 | 1000000 | 100000 | 100 | 100 | 24.06 |
| 32 | 24.20 | 1000000 | 100000 | 100 | 100 | 24.20 |
| 33 | 24.34 | 1000000 | 100000 | 100 | 100 | 24.34 |
| 34 | 24.48 | 1000000 | 100000 | 100 | 100 | 24.48 |
| 35 | 24.62 | 1000000 | 100000 | 100 | 100 | 24.62 |
| 36 | 24.76 | 1000000 | 100000 | 100 | 100 | 24.76 |
| 37 | 24.90 | 1000000 | 100000 | 100 | 100 | 24.90 |
| 38 | 25.04 | 1000000 | 100000 | 100 | 100 | 25.04 |
| 39 | 25.18 | 1000000 | 100000 | 100 | 100 | 25.18 |
| 40 | 25.32 | 1000000 | 100000 | 100 | 100 | 25.32 |
| 41 | 25.46 | 1000000 | 100000 | 100 | 100 | 25.46 |
| 42 | 25.60 | 1000000 | 100000 | 100 | 100 | 25.60 |
| 43 | 25.74 | 1000000 | 100000 | 100 | 100 | 25.74 |
| 44 | 25.88 | 1000000 | 100000 | 100 | 100 | 25.88 |
| 45 | 26.02 | 1000000 | 100000 | 100 | 100 | 26.02 |
| 46 | 26.16 | 1000000 | 100000 | 100 | 100 | 26.16 |
| 47 | 26.30 | 1000000 | 100000 | 100 | 100 | 26.30 |
| 48 | 26.44 | 1000000 | 100000 | 100 | 100 | 26.44 |
| 49 | 26.58 | 1000000 | 100000 | 100 | 100 | 26.58 |
| 50 | 26.72 | 1000000 | 100000 | 100 | 100 | 26.72 |
| 51 | 26.86 | 1000000 | 100000 | 100 | 100 | 26.86 |
| 52 | 27.00 | 1000000 | 100000 | 100 | 100 | 27.00 |
| 53 | 27.14 | 1000000 | 100000 | 100 | 100 | 27.14 |
| 54 | 27.28 | 1000000 | 100000 | 100 | 100 | 27.28 |
| 55 | 27.42 | 1000000 | 100000 | 100 | 100 | 27.42 |
| 56 | 27.56 | 1000000 | 100000 | 100 | 100 | 27.56 |
| 57 | 27.70 | 1000000 | 100000 | 100 | 100 | 27.70 |
| 58 | 27.84 | 1000000 | 100000 | 100 | 100 | 27.84 |
| 59 | 27.98 | 1000000 | 100000 | 100 | 100 | 27.98 |
| 60 | 28.12 | 1000000 | 100000 | 100 | 100 | 28.12 |
| 61 | 28.26 | 1000000 | 100000 | 100 | 100 | 28.26 |
| 62 | 28.40 | 1000000 | 100000 | 100 | 100 | 28.40 |
| 63 | 28.54 | 1000000 | 100000 | 100 | 100 | 28.54 |
| 64 | 28.68 | 1000000 | 100000 | 100 | 100 | 28.68 |
| 65 | 28.82 | 1000000 | 100000 | 100 | 100 | 28.82 |
| 66 | 28.96 | 1000000 | 100000 | 100 | 100 | 28.96 |
| 67 | 29.10 | 1000000 | 100000 | 100 | 100 | 29.10 |
| 68 | 29.24 | 1000000 | 100000 | 100 | 100 | 29.24 |
| 69 | 29.38 | 1000000 | 100000 | 100 | 100 | 29.38 |
| 70 | 29.52 | 1000000 | 100000 | 100 | 100 | 29.52 |
| 71 | 29.66 | 1000000 | 100000 | 100 | 100 | 29.66 |
| 72 | 29.80 | 1000000 | 100000 | 100 | 100 | 29.80 |
| 73 | 29.94 | 1000000 | 100000 | 100 | 100 | 29.94 |
| 74 | 30.08 | 1000000 | 100000 | 100 | 100 | 30.08 |
| 75 | 30.22 | 1000000 | 100000 | 100 | 100 | 30.22 |
| 76 | 30.36 | 1000000 | 100000 | 100 | 100 | 30.36 |
| 77 | 30.50 | 1000000 | 100000 | 100 | 100 | 30.50 |
| 78 | 30.64 | 1000000 | 100000 | 100 | 100 | 30.64 |
| 79 | 30.78 | 1000000 | 100000 | 100 | 100 | 30.78 |
| 80 | 30.92 | 1000000 | 100000 | 100 | 100 | 30.92 |
| 81 | 31.06 | 1000000 | 100000 | 100 | 100 | 31.06 |
| 82 | 31.20 | 1000000 | 100000 | 100 | 100 | 31.20 |
| 83 | 31.34 | 1000000 | 100000 | 100 | 100 | 31.34 |
| 84 | 31.48 | 1000000 | 100000 | 100 | 100 | 31.48 |
| 85 | 31.62 | 1000000 | 100000 | 100 | 100 | 31.62 |
| 86 | 31.76 | 1000000 | 100000 | 100 | 100 | 31.76 |
| 87 | 31.90 | 1000000 | 100000 | 100 | 100 | 31.90 |
| 88 | 32.04 | 1000000 | 100000 | 100 | 100 | 32.04 |
| 89 | 32.18 | 1000000 | 100000 | 100 | 100 | 32.18 |
| 90 | 32.32 | 1000000 | 100000 | 100 | 100 | 32.32 |
| 91 | 32.46 | 1000000 | 100000 | 100 | 100 | 32.46 |
| 92 | 32.60 | 1000000 | 100000 | 100 | 100 | 32.60 |
| 93 | 32.74 | 1000000 | 100000 | 100 | 100 | 32.74 |
| 94 | 32.88 | 1000000 | 100000 | 100 | 100 | 32.88 |
| 95 | 33.02 | 1000000 | 100000 | 100 | 100 | 33.02 |
| 96 | 33.16 | 1000000 | 100000 | 100 | 100 | 33.16 |
| 97 | 33.30 | 1000000 | 100000 | 100 | 100 | 33.30 |
| 98 | 33.44 | 1000000 | 100000 | 100 | 100 | 33.44 |
| 99 | 33.58 | 1000000 | 100000 | 100 | 100 | 33.58 |
| 100 | 33.72 | 1000000 | 100000 | 100 | 100 | 33.72 |

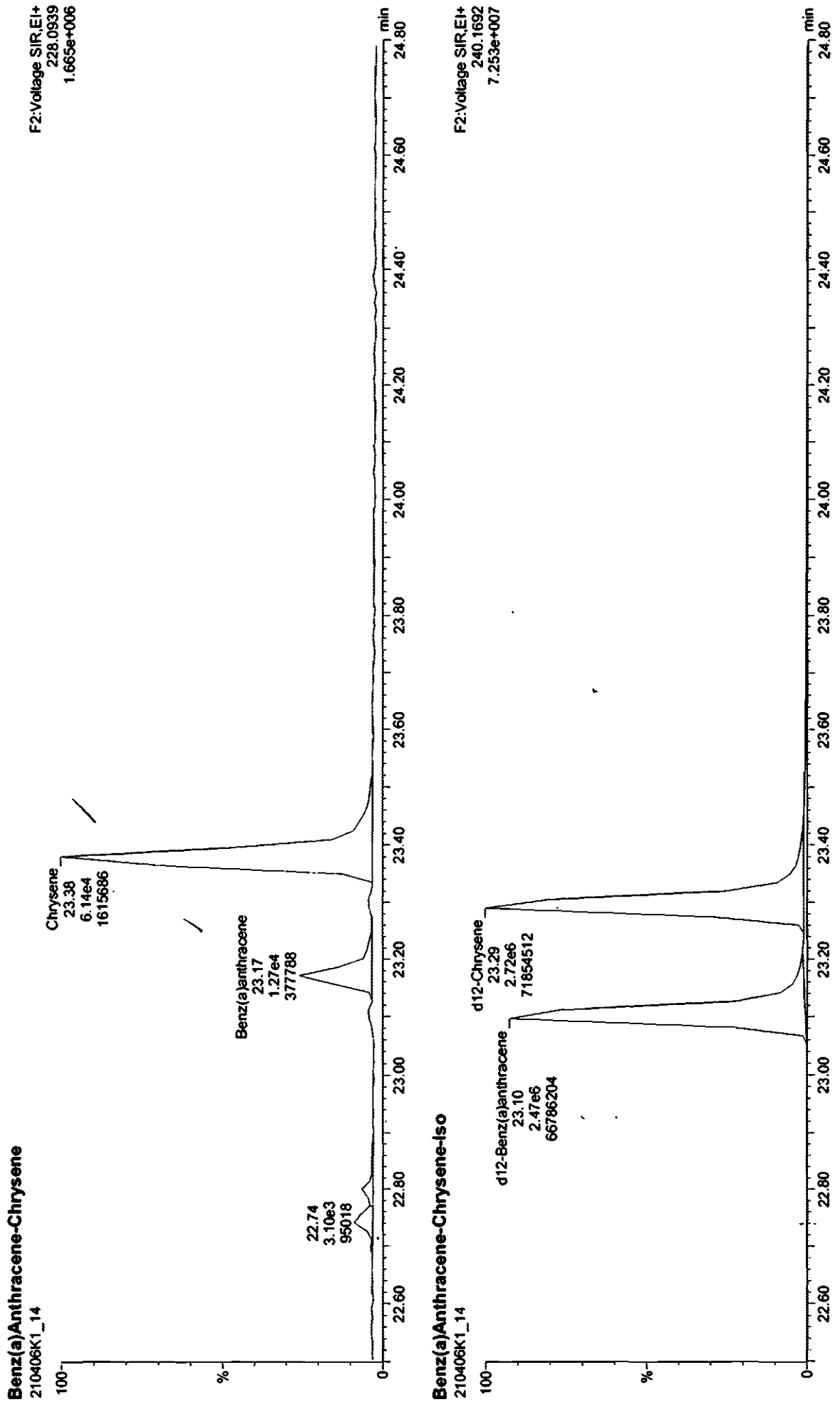


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

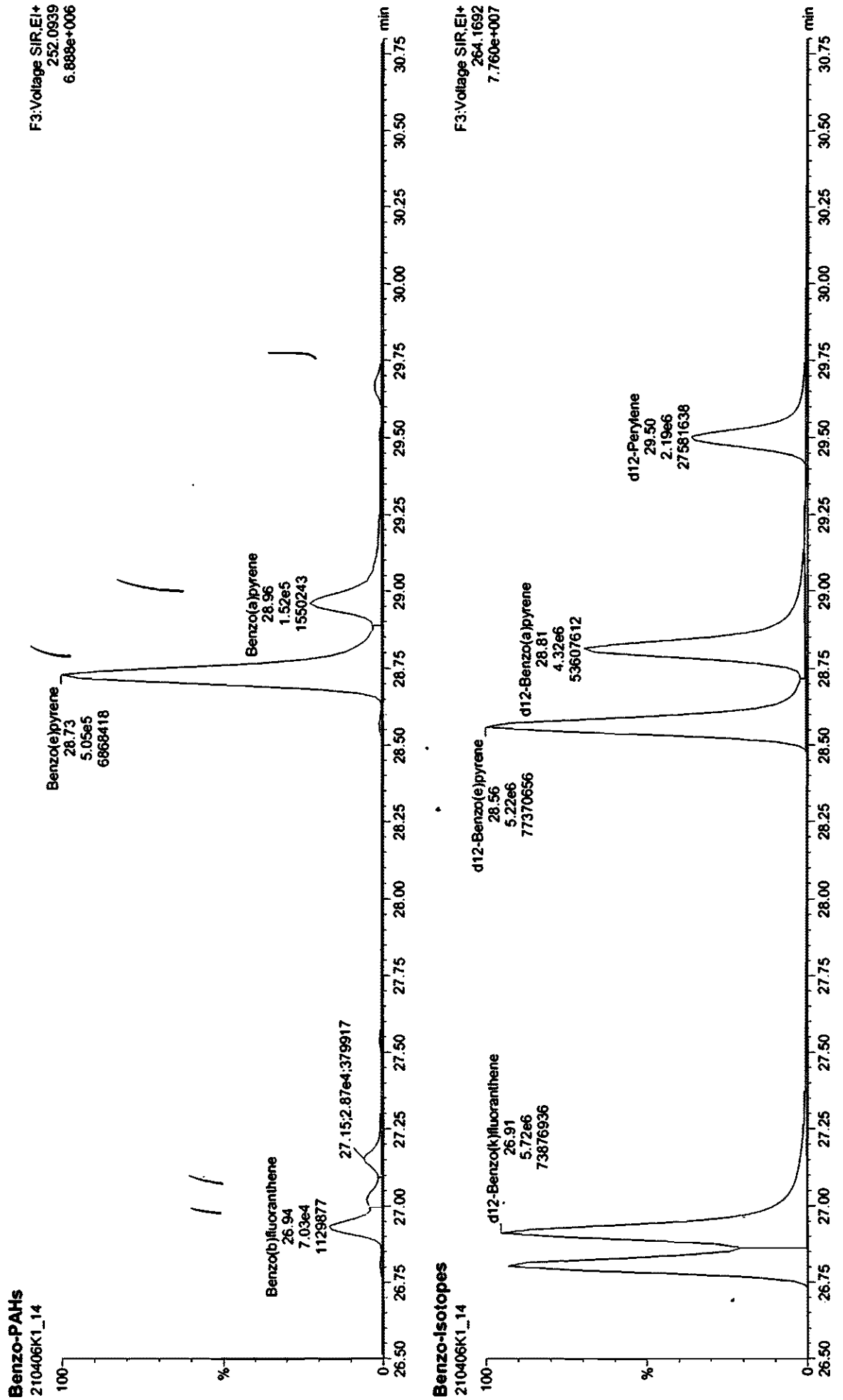
Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB



Chromatogram (Chromatography) showing detector response over time (min). The x-axis ranges from 27.00 to 31.00 minutes. The y-axis represents detector response.

Peak labels: 27.54, 27.83, 28.57, 28.94, 29.33, 29.44, 29.83.

Peak 1: 27.54 min

Peak 2: 27.83 min

Peak 3: 28.57 min (Peak Name: 28.57, 28.88, 29.46, 30.04)

Peak 4: 28.94 min (Peak Name: 28.94, 29.33, 30.04)

Peak 5: 29.33 min (Peak Name: 29.33, 29.83, 30.04)

Peak 6: 29.44 min (Peak Name: 29.44, 29.83, 30.04)

Peak 7: 29.83 min (Peak Name: 29.83, 30.33, 30.04)

Peak 8: 30.33 min (Peak Name: 30.33, 30.83, 30.04)

| Area | Height | Width | Area% | Height% | Width% | Retention Time (min) | Peak Name | Conc. | Units |
|------|--------|-------|-------|---------|--------|----------------------|-----------|-------|-------|
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 27.54 | | | |
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 27.83 | | | |
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 28.57 | | | |
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 28.94 | | | |
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 29.33 | | | |
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 29.44 | | | |
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 29.83 | | | |
| 1.25 | 1.25 | 1.25 | 0.01 | 0.01 | 0.01 | 30.33 | | | |

Chromatogram (Chromatography) showing detector response over time (min). The x-axis ranges from 27.00 to 31.00 minutes. The y-axis represents detector response.

Peak labels: 27.54, 27.83, 28.57, 28.94, 29.33, 29.44, 29.83.

Peak 1: 27.54 min

Peak 2: 27.83 min

Peak 3: 28.57 min (Peak Name: 28.57, 28.88, 29.46, 30.04)

Peak 4: 28.94 min (Peak Name: 28.94, 29.33, 30.04)

Peak 5: 29.33 min (Peak Name: 29.33, 29.83, 30.04)

Peak 6: 29.44 min (Peak Name: 29.44, 29.83, 30.04)

Peak 7: 29.83 min (Peak Name: 29.83, 30.33, 30.04)

Peak 8: 30.33 min (Peak Name: 30.33, 30.83, 30.04)

Dataset: Untitled

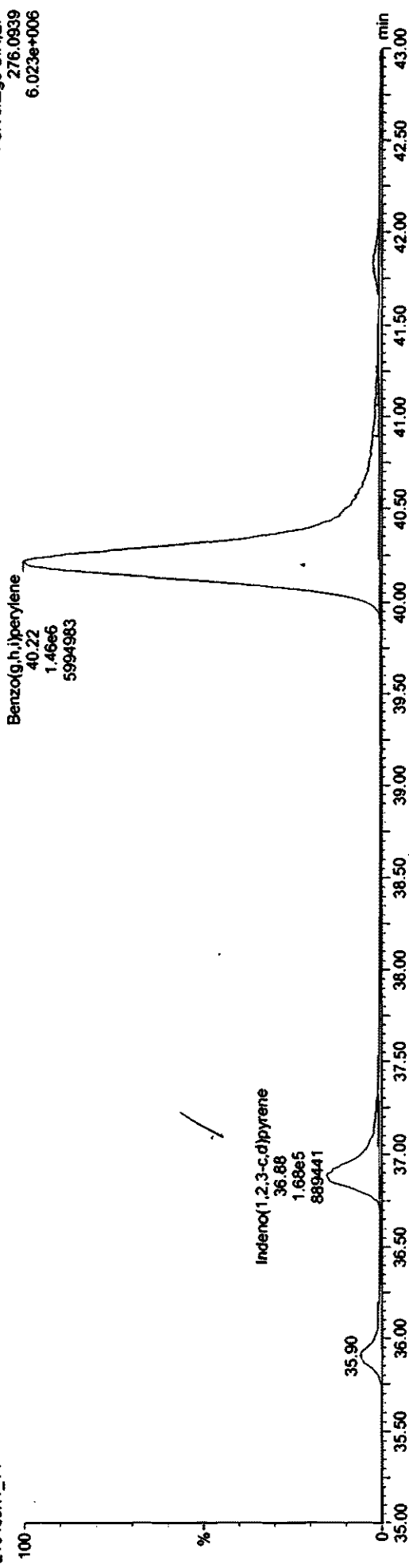
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB

Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

210406K1_14

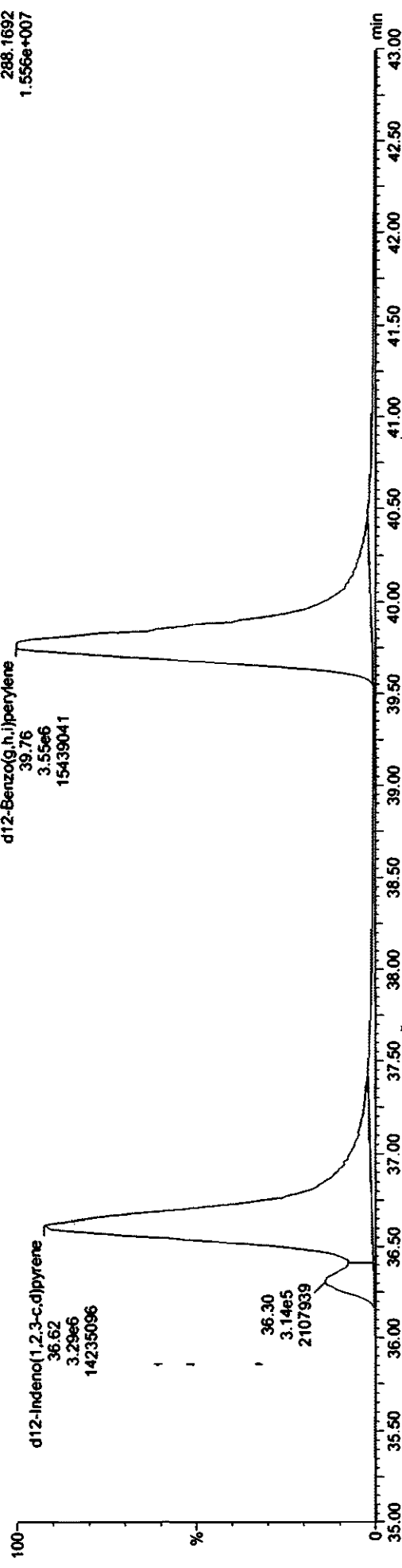
F3:Voltage SIR.EI+
276.0939
6.023e+006



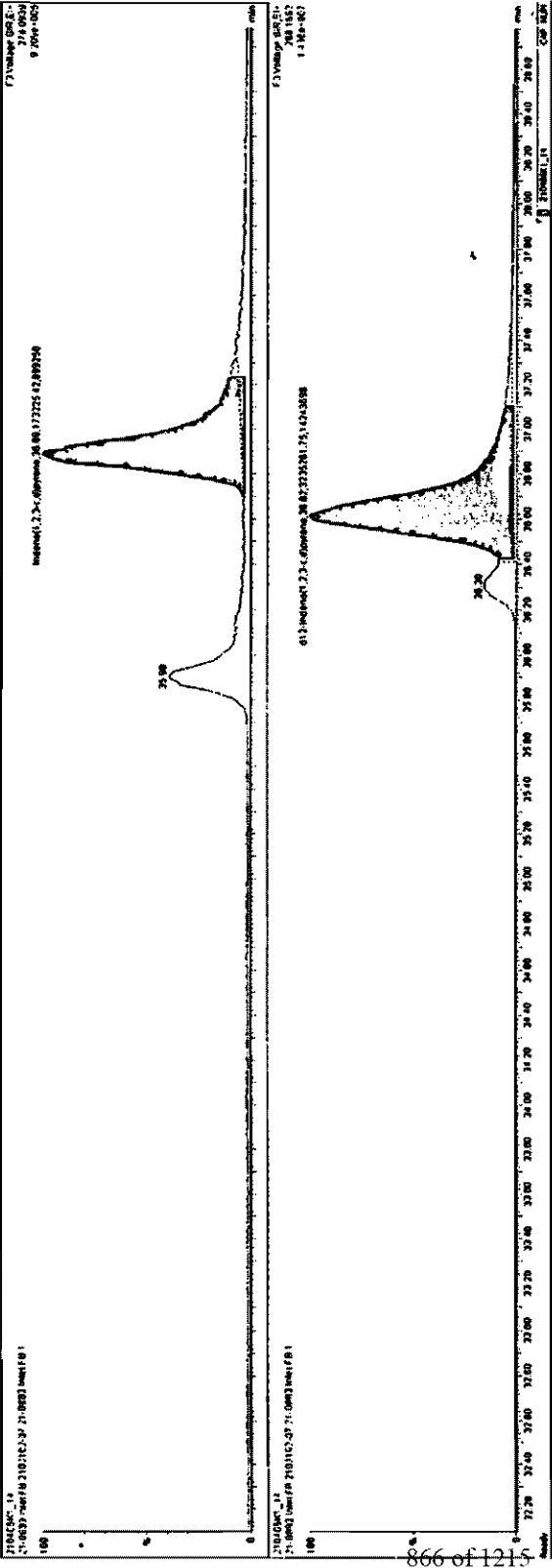
d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

210406K1_14

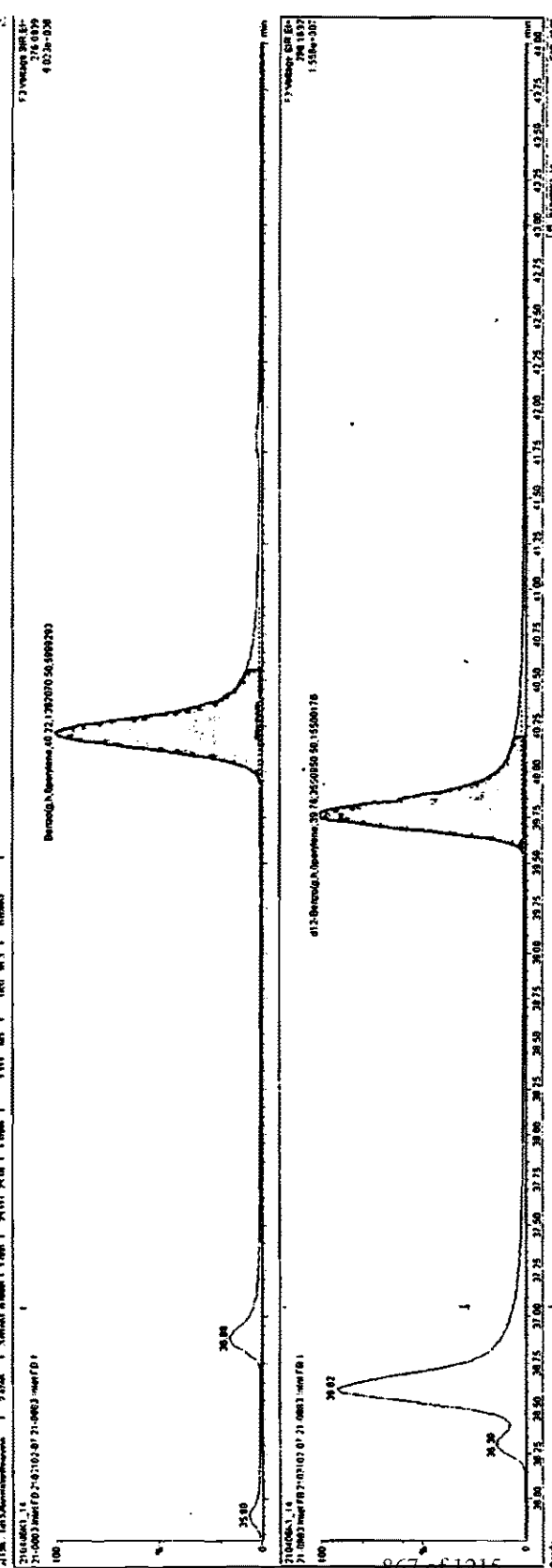
F3:Voltage SIR.EI+
286.1692
1.556e+007



| Peak | RT | Area | Height | Width | Height/Width | Area/Height | Area% | Height% |
|------|------|--------|--------|-------|--------------|-------------|--------|---------|
| 15 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.0005 | 0.0005 |
| 16 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.108 | 0.0005 |
| 17 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 18 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 19 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 20 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 21 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 22 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 23 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 24 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 25 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 26 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 27 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 28 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 29 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |
| 30 | 2.34 | 5.25e6 | 1.02e5 | 77.02 | 1.00e3 | 1.00 | 0.135 | 0.0005 |



| Peak | Time | Area | Height | Wt% | Area% | Height% | Area% | Height% |
|------|--------|--------|--------|-------|-------|---------|-------|---------|
| 15 | 2.268 | 5.7346 | 1.0278 | 0.005 | 27.02 | 1.0278 | 1.00 | 1.00 |
| 16 | 2.268 | 6.8556 | 0.9115 | 0.005 | 29.73 | 0.9115 | 1.00 | 1.00 |
| 17 | 2.268 | 4.2148 | 0.9132 | 0.005 | 20.99 | 0.9132 | 1.00 | 1.00 |
| 18 | 1.7548 | 2.7148 | 0.8975 | 0.005 | 22.72 | 0.8975 | 1.00 | 1.00 |
| 19 | 1.7548 | 3.2948 | 0.8928 | 0.005 | 26.08 | 0.8928 | 1.00 | 1.00 |
| 20 | 1.7548 | 3.2948 | 0.8928 | 0.005 | 26.08 | 0.8928 | 1.00 | 1.00 |
| 21 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 22 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 23 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 24 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 25 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 26 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 27 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 28 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 29 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 30 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 31 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 32 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 33 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 34 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 35 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 36 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 37 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 38 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 39 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 40 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 41 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 42 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 43 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 44 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 45 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 46 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 47 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 48 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 49 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |
| 50 | 2.7728 | 0.8975 | 0.8975 | 0.005 | 27.11 | 0.8975 | 1.00 | 1.00 |

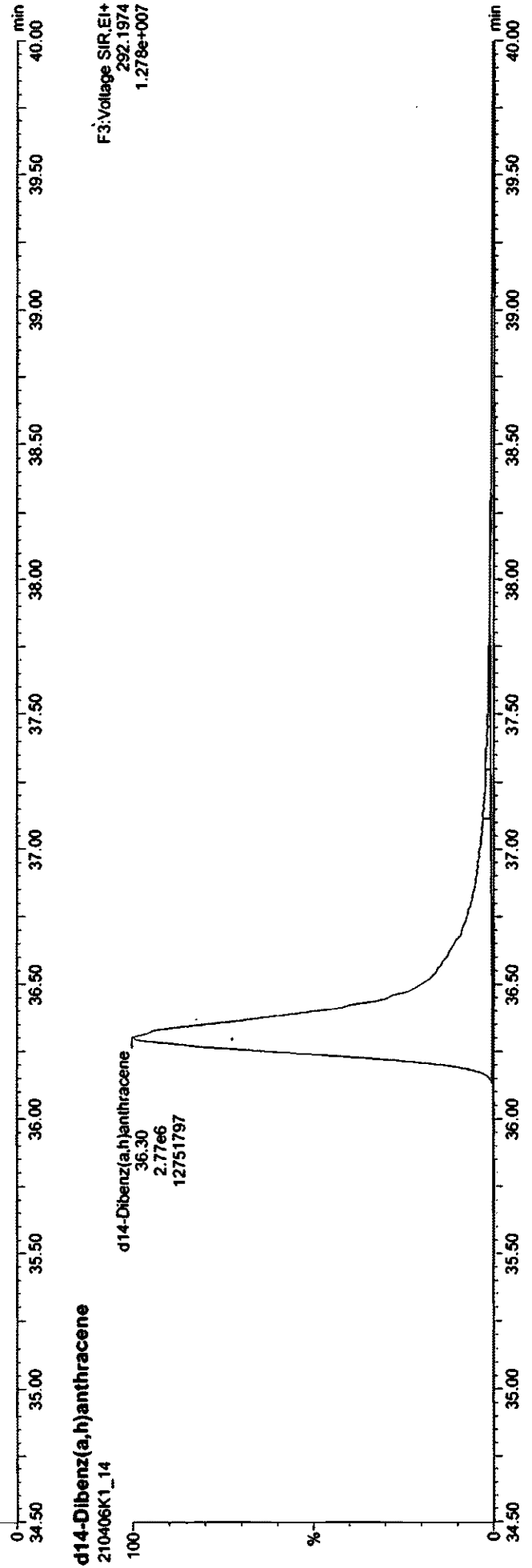
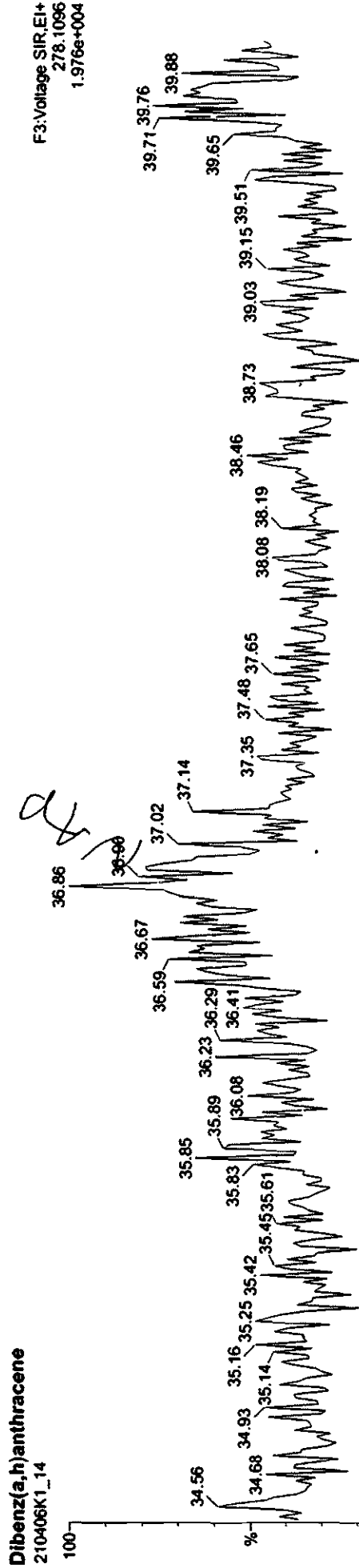


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_14, Date: 06-Apr-2021, Time: 21:23:40, ID: 2103102-07 21-0883 Inlet FB 1, Description: 21-0883 Inlet FB



Quantify Sample Summary Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-15.qtd

Last Altered: Wednesday, April 07, 2021 9:54:39 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 9:55:12 AM Pacific Daylight Time

HT 4.7.2021

2704/08/2021

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurvedB\50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11
Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB

| I. # | Name | Resp | J | IS Resp | RRF | wVol | Pred RT | RT | Pred RT | L | RRT | L | Check R | Conc | %Rec | DL |
|------|--------------------------|--------|---|---------|--------|-------|---------|-------|---------|-------|-----|---|---------|-------|------|--------|
| 1 | Naphthalene | 4.06e6 | | 1.63e6 | 1.16 | 1.000 | 10.17 | 10.16 | 1.006 | 1.004 | | | NO | 428 | | 1.48 |
| 2 | Naphthalene-2nd | 4.33e5 | | 1.63e6 | 0.128 | 1.000 | 10.17 | 10.16 | 1.006 | 1.004 | | | NO | 4NS | | 20.4 |
| 3 | 2-Methylnaphthalene | 1.00e6 | | 9.21e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | | | NO | 158 | | 0.566 |
| 4 | Acenaphthylene | 4.97e4 | | 1.43e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | | | NO | 6.22 | | 0.262 |
| 5 | Acenaphthene | 1.26e4 | | 9.21e5 | 1.10 | 1.000 | 14.70 | 14.70 | 1.006 | 1.006 | | | NO | 2.48 | | 0.462 |
| 6 | Fluorene | 5.28e4 | | 9.43e5 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | | | NO | 9.70 | | 0.788 |
| 7 | Phenanthrene | 4.20e5 | | 1.30e6 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | | | NO | 54.4 | | 1.49 |
| 8 | Phenanthrene-2nd | 1.59e4 | | 1.30e6 | 0.0925 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | | | NO | 28.4 | | 8.69 |
| 9 | Anthracene | 2.18e4 | | 1.30e6 | 1.09 | 1.000 | 18.39 | 18.38 | 1.005 | 1.005 | | | NO | 3.07 | | 1.63 |
| 10 | Fluoranthene | 3.25e5 | | 2.61e6 | 1.10 | 1.000 | 20.37 | 20.36 | 1.002 | 1.002 | | | NO | 22.6 | | 0.0877 |
| 11 | Pyrene | 4.50e5 | | 2.61e6 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | | | NO | 28.8 | | 0.0805 |
| 12 | Benz(a)anthracene | 9.23e3 | | 2.16e6 | 0.961 | 1.000 | 23.16 | 23.17 | 1.003 | 1.003 | | | NO | 0.890 | | 0.0786 |
| 13 | Chrysene | 7.27e4 | | 2.40e6 | 0.852 | 1.000 | 23.37 | 23.38 | 1.003 | 1.004 | | | NO | 7.11 | | 0.0828 |
| 14 | Benzo(b)fluoranthene | 2.99e4 | | 3.70e6 | 1.10 | 1.000 | 26.92 | 26.91 | 1.005 | 1.005 | | | NO | 2.92 | | 0.0972 |
| 15 | Benzo(k)fluoranthene | 8.36e3 | | 4.55e6 | 1.04 | 1.000 | 27.02 | 27.01 | 1.004 | 1.004 | | | NO | 0.709 | | 0.100 |
| 16 | Benzo(e)pyrene | 6.89e4 | | 4.55e6 | 0.911 | 1.000 | 28.70 | 28.72 | 1.067 | 1.068 | | | NO | 6.65 | | 0.114 |
| 17 | Benzo(a)pyrene | 8.95e3 | | 3.68e6 | 1.02 | 1.000 | 28.97 | 28.95 | 1.006 | 1.005 | | | NO | 0.958 | | 0.149 |
| 18 | Perylene | 3.09e3 | | 3.68e6 | 0.987 | 1.000 | 29.71 | 29.64 | 1.031 | 1.029 | | | NO | 0.340 | | 0.153 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.54e4 | | 2.64e6 | 0.915 | 1.000 | 36.75 | 36.73 | 1.007 | 1.006 | | | NO | 2.55 | | 0.375 |
| 20 | Benzo(g,h,i)perylene | 1.09e5 | | 2.97e6 | 0.940 | 1.000 | 40.15 | 40.10 | 1.009 | 1.008 | | | NO | 15.6 | | 0.352 |
| 21 | Dibenz(a,h)anthracene | | | 2.26e6 | 0.948 | 1.000 | 36.69 | | 1.011 | | | | YES | | | 0.404 |
| 22 | 6B-Naphthalene | 1.63e6 | | 2.50e6 | 1.20 | 1.000 | 10.12 | 10.12 | 0.848 | 0.848 | | | NO | 108 | 54.2 | 0.137 |
| 23 | 6B-Acenaphthylene | 1.43e6 | | 2.50e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | | | NO | 126 | 63.2 | 0.0852 |
| 24 | d10-Acenaphthene | 9.21e5 | | 2.50e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | | | NO | 124 | 61.9 | 0.0606 |
| 25 | d10-Fluorene | 9.43e5 | | 2.50e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | | | NO | 134 | 66.9 | 0.0585 |
| 26 | d10-Phenanthrene | 1.30e6 | | 2.50e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | | | NO | 141 | 70.6 | 0.0533 |
| 27 | d10-Fluoranthene | 2.61e6 | | 2.50e6 | 1.29 | 1.000 | 20.33 | 20.32 | 0.977 | 0.976 | | | NO | 162 | 81.2 | 0.0176 |
| 28 | d12-Benz(a)anthracene | 2.16e6 | | 2.50e6 | 0.900 | 1.000 | 23.11 | 23.10 | 1.110 | 1.110 | | | NO | 191 | 95.7 | 0.0281 |
| 29 | d12-Chrysene | 2.40e6 | | 2.50e6 | 1.02 | 1.000 | 23.30 | 23.29 | 1.120 | 1.119 | | | NO | 188 | 94.0 | 0.0247 |
| 30 | d12-Benzo(b)fluoranthene | 3.70e6 | | 1.87e6 | 1.18 | 1.000 | 26.76 | 26.79 | 0.907 | 0.908 | | | NO | 335 | 83.7 | 0.156 |
| 31 | d12-Benzo(k)fluoranthene | 4.55e6 | | 1.87e6 | 1.50 | 1.000 | 26.87 | 26.90 | 0.911 | 0.912 | | | NO | 323 | 80.8 | 0.122 |

Quantify Sample Summary Report
 Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1210406K1-15.qld

Last Altered: Wednesday, April 07, 2021 9:54:39 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 9:55:12 AM Pacific Daylight Time

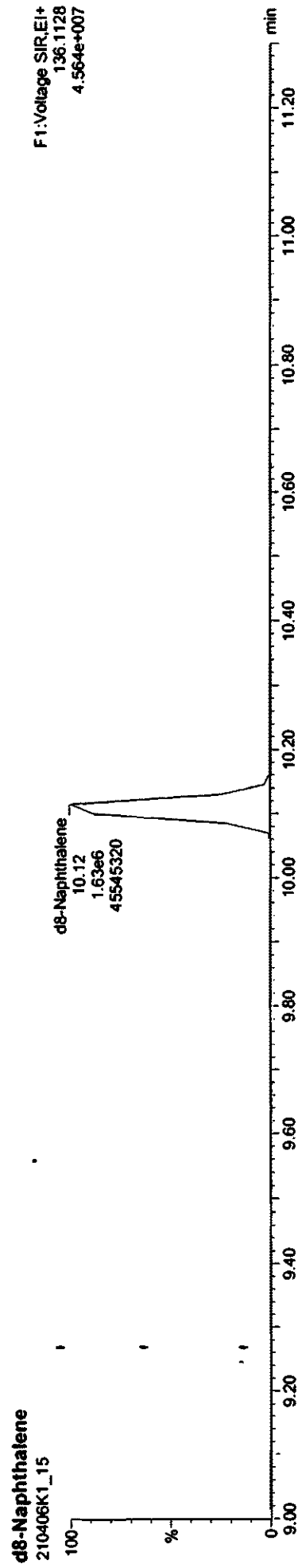
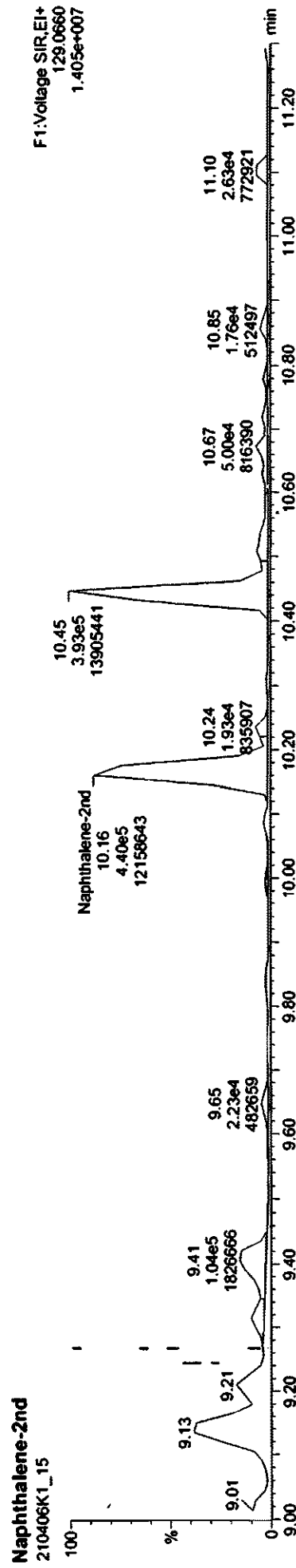
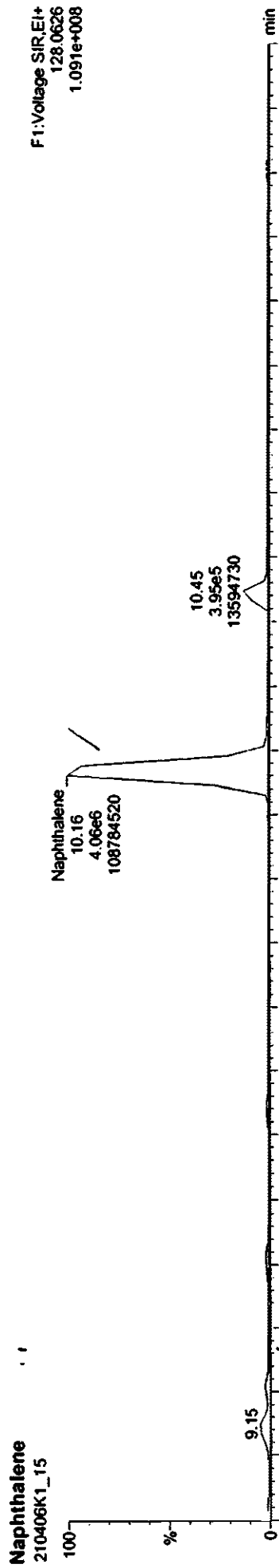
Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB

| L# | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 32 | d12-Benzof(a)pyrene | 3.68e6 | 1.87e6 | 1.24 | 1.000 | 28.76 | 28.80 | 0.975 | 0.977 | NO | 318 | 79.4 | 0.149 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 2.64e6 | 1.87e6 | 1.02 | 1.000 | 36.78 | 36.50 | 1.247 | 1.237 | NO | 278 | 69.4 | 0.215 |
| 34 | d12-Benzof(g,h,i)perylene | 2.97e6 | 1.87e6 | 1.00 | 1.000 | 40.18 | 39.78 | 1.362 | 1.349 | YES | 316 | 79.0 | 0.218 |
| 35 | d14-Dibenz(a,h)anthracene | 2.26e6 | 1.87e6 | 0.765 | 1.000 | 36.55 | 36.28 | 1.239 | 1.230 | NO | 315 | 78.7 | 0.221 |
| 36 | d10-Anthracene | 1.08e6 | 1.87e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 117 | 58.3 | 0.195 |
| 37 | d14-Terphenyl | 4.59e6 | 2.61e6 | 0.576 | 1.000 | 20.69 | 20.72 | 1.018 | 1.020 | NO | 610 | 122 | 0.0305 |
| 38 | d12-Benzof(e)pyrene | 4.30e6 | 4.55e6 | 0.738 | 1.000 | 28.52 | 28.56 | 1.060 | 1.062 | NO | 513 | 103 | 0.176 |
| 39 | d10-1-Methylnaphthalene | 1.52e6 | 1.52e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.0813 |
| 40 | d10-Pyrene | 2.50e6 | 2.50e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 0.0227 |
| 41 | d12-Perylene | 1.87e6 | 1.87e6 | 1.00 | 1.000 | 29.59 | 29.49 | 1.000 | 1.000 | NO | 200 | 100 | 0.184 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

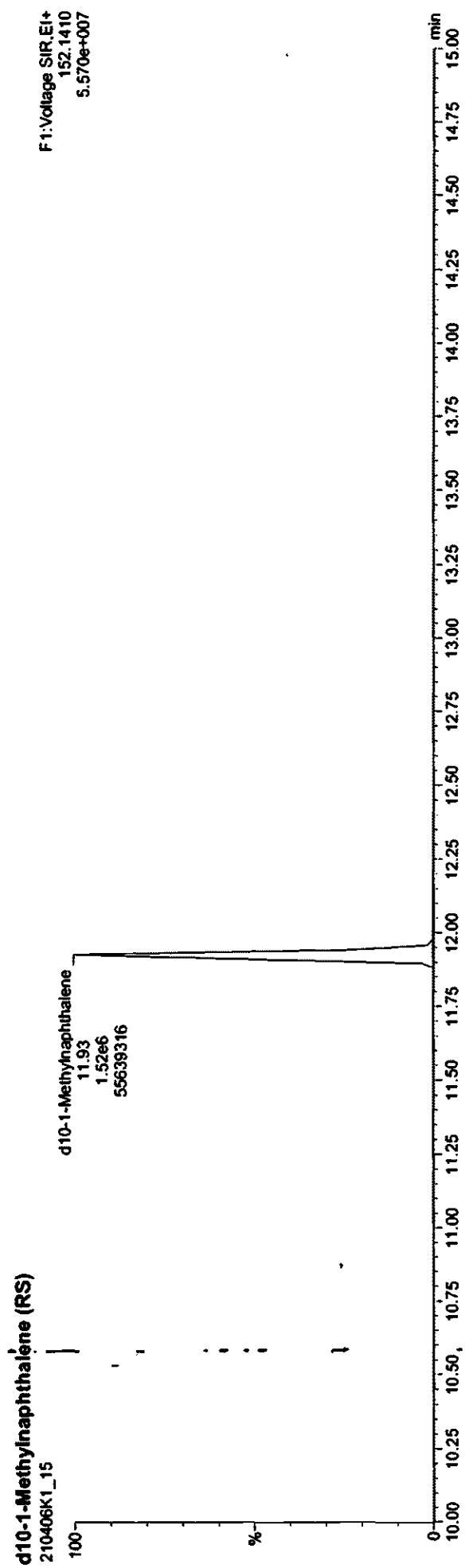
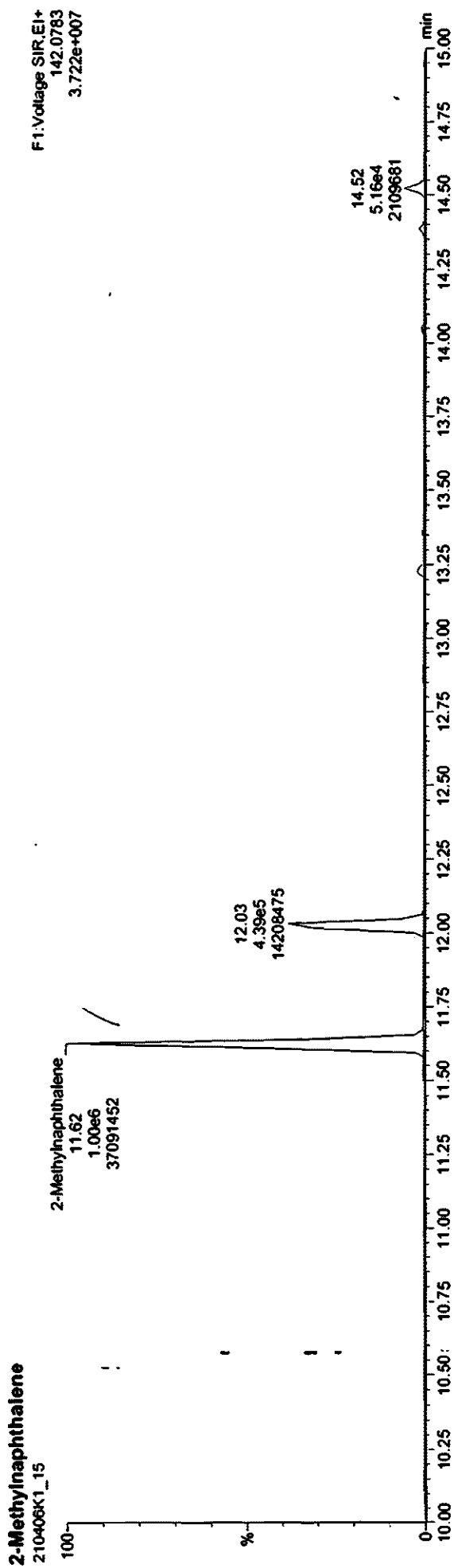
Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB

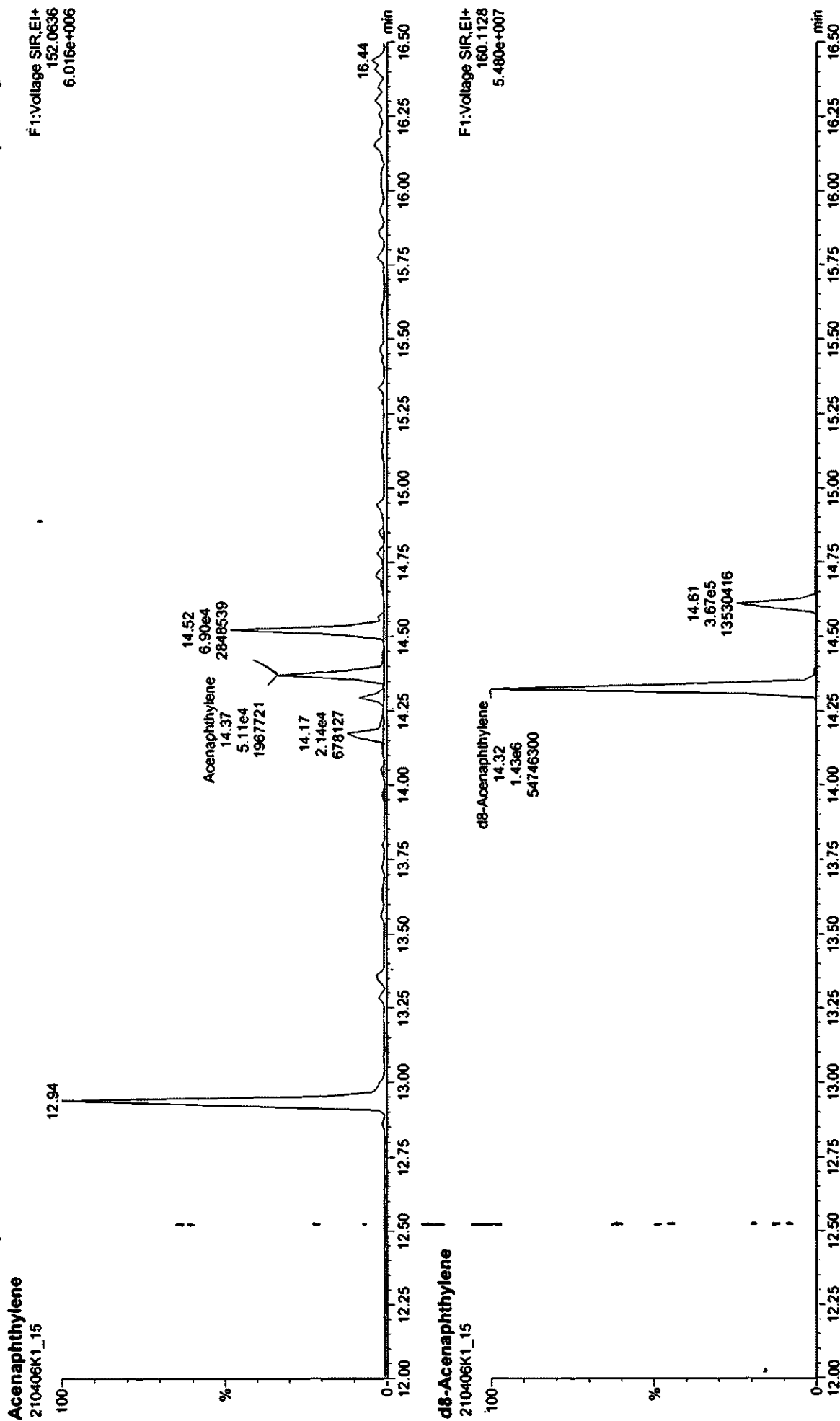


Quantify Sample Report
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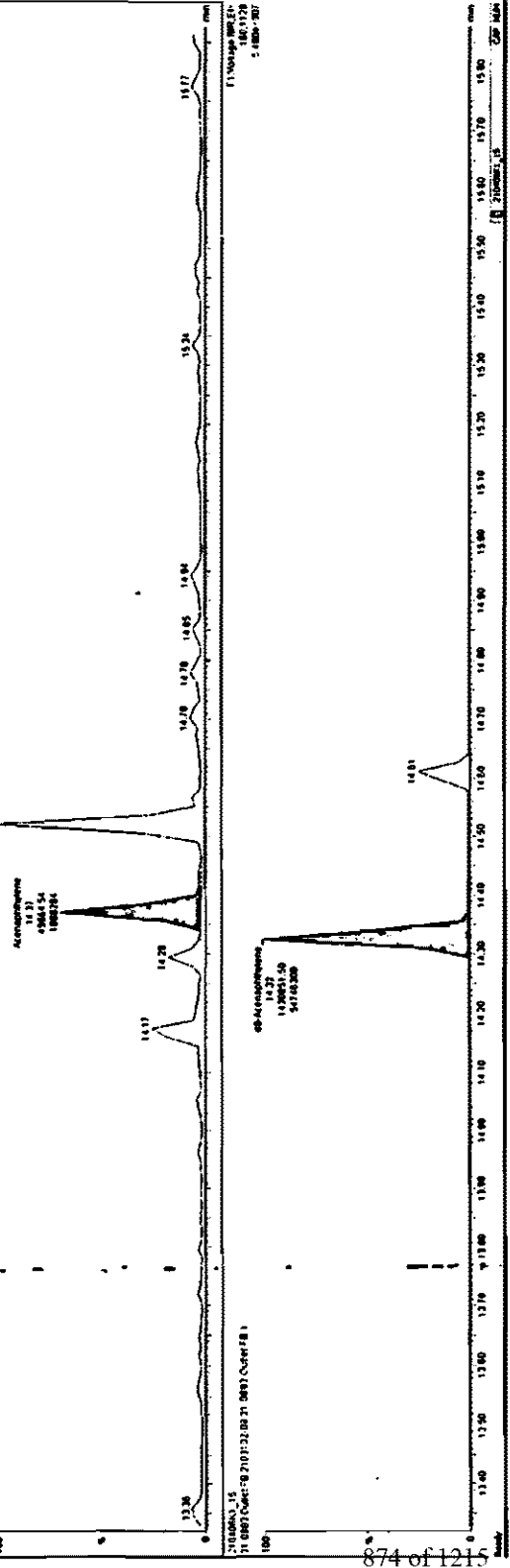
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Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB



| Peak # | Retention Time (min) | Area | Height | Width | Signal-to-Noise | Integration | Area % |
|--------|----------------------|--------|--------|-------|-----------------|-------------|--------|
| 1 | 13.36 | 1250 | 100 | 0.10 | 1000 | 0.10 | 0.01 |
| 2 | 14.93 | 496454 | 10000 | 0.20 | 5000 | 49.65 | 49.65 |
| 3 | 14.97 | 100000 | 5000 | 0.20 | 5000 | 10.00 | 10.00 |
| 4 | 16.00 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 5 | 16.05 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 6 | 16.10 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 7 | 16.15 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 8 | 16.20 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 9 | 16.25 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 10 | 16.30 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 11 | 16.35 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 12 | 16.40 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 13 | 16.45 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 14 | 16.50 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 15 | 16.55 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 16 | 16.60 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 17 | 16.65 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 18 | 16.70 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 19 | 16.75 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 20 | 16.80 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 21 | 16.85 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 22 | 16.90 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 23 | 16.95 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 24 | 17.00 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 25 | 17.05 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 26 | 17.10 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 27 | 17.15 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 28 | 17.20 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 29 | 17.25 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 30 | 17.30 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 31 | 17.35 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 32 | 17.40 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 33 | 17.45 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 34 | 17.50 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 35 | 17.55 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 36 | 17.60 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 37 | 17.65 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 38 | 17.70 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 39 | 17.75 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 40 | 17.80 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 41 | 17.85 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 42 | 17.90 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 43 | 17.95 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 44 | 18.00 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 45 | 18.05 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 46 | 18.10 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 47 | 18.15 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 48 | 18.20 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 49 | 18.25 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 50 | 18.30 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 51 | 18.35 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 52 | 18.40 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 53 | 18.45 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 54 | 18.50 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 55 | 18.55 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 56 | 18.60 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 57 | 18.65 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 58 | 18.70 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 59 | 18.75 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 60 | 18.80 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 61 | 18.85 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 62 | 18.90 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 63 | 18.95 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 64 | 19.00 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 65 | 19.05 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 66 | 19.10 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 67 | 19.15 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 68 | 19.20 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 69 | 19.25 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 70 | 19.30 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 71 | 19.35 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 72 | 19.40 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 73 | 19.45 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 74 | 19.50 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 75 | 19.55 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 76 | 19.60 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 77 | 19.65 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 78 | 19.70 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 79 | 19.75 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 80 | 19.80 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 81 | 19.85 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 82 | 19.90 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 83 | 19.95 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 84 | 20.00 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 85 | 20.05 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 86 | 20.10 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 87 | 20.15 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 88 | 20.20 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 89 | 20.25 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 90 | 20.30 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 91 | 20.35 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 92 | 20.40 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 93 | 20.45 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 94 | 20.50 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 95 | 20.55 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 96 | 20.60 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 97 | 20.65 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 98 | 20.70 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 99 | 20.75 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |
| 100 | 20.80 | 10000 | 5000 | 0.20 | 5000 | 1.00 | 1.00 |

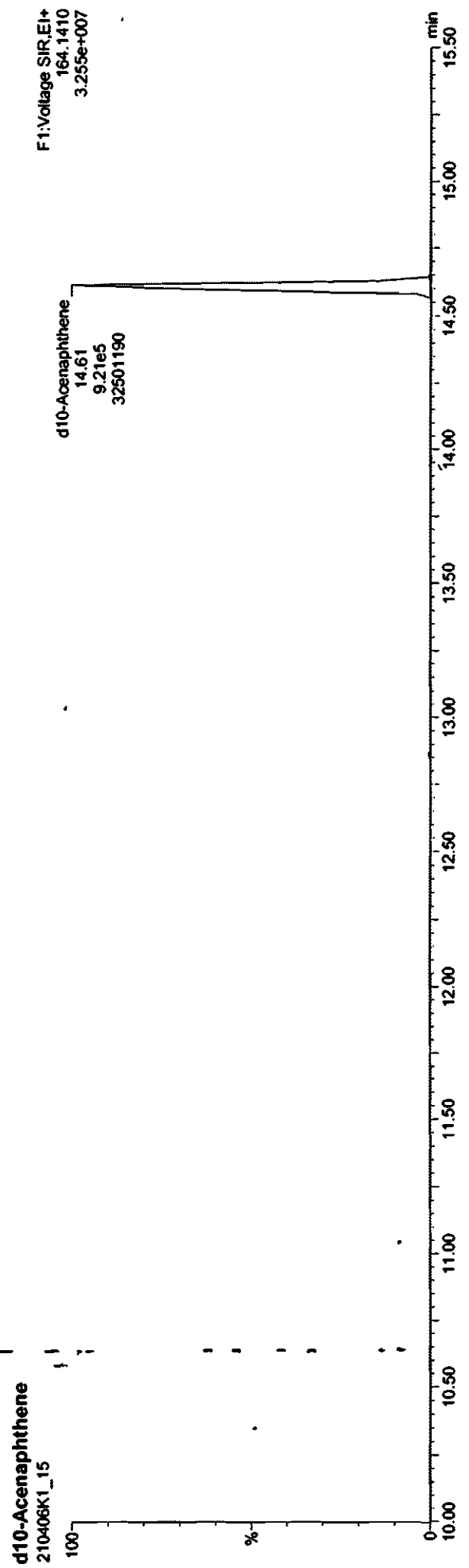
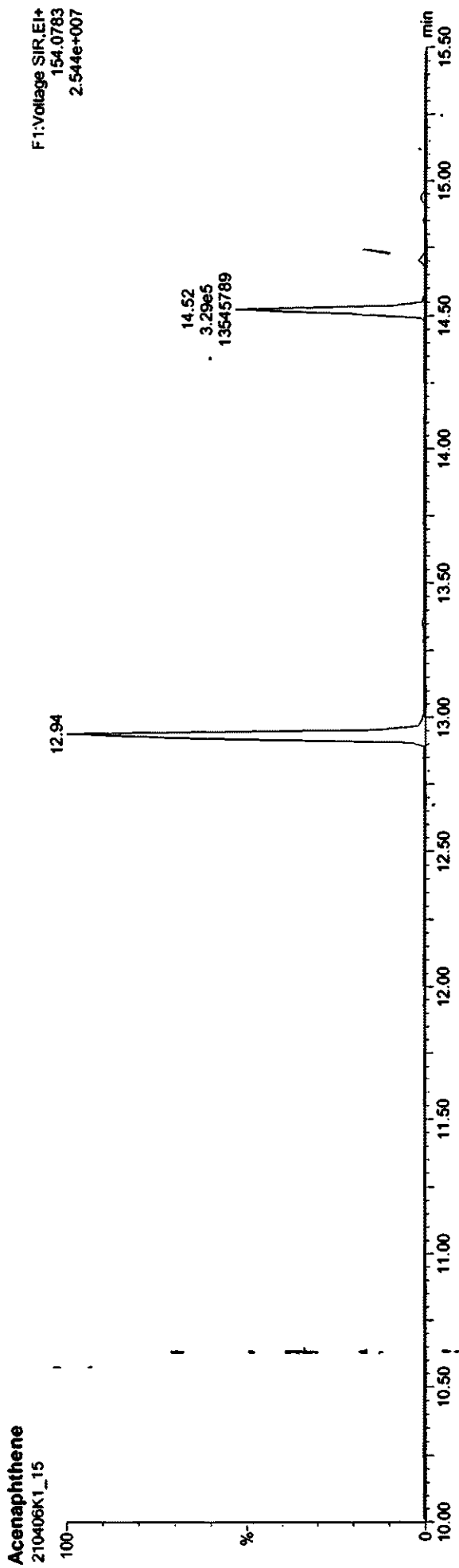


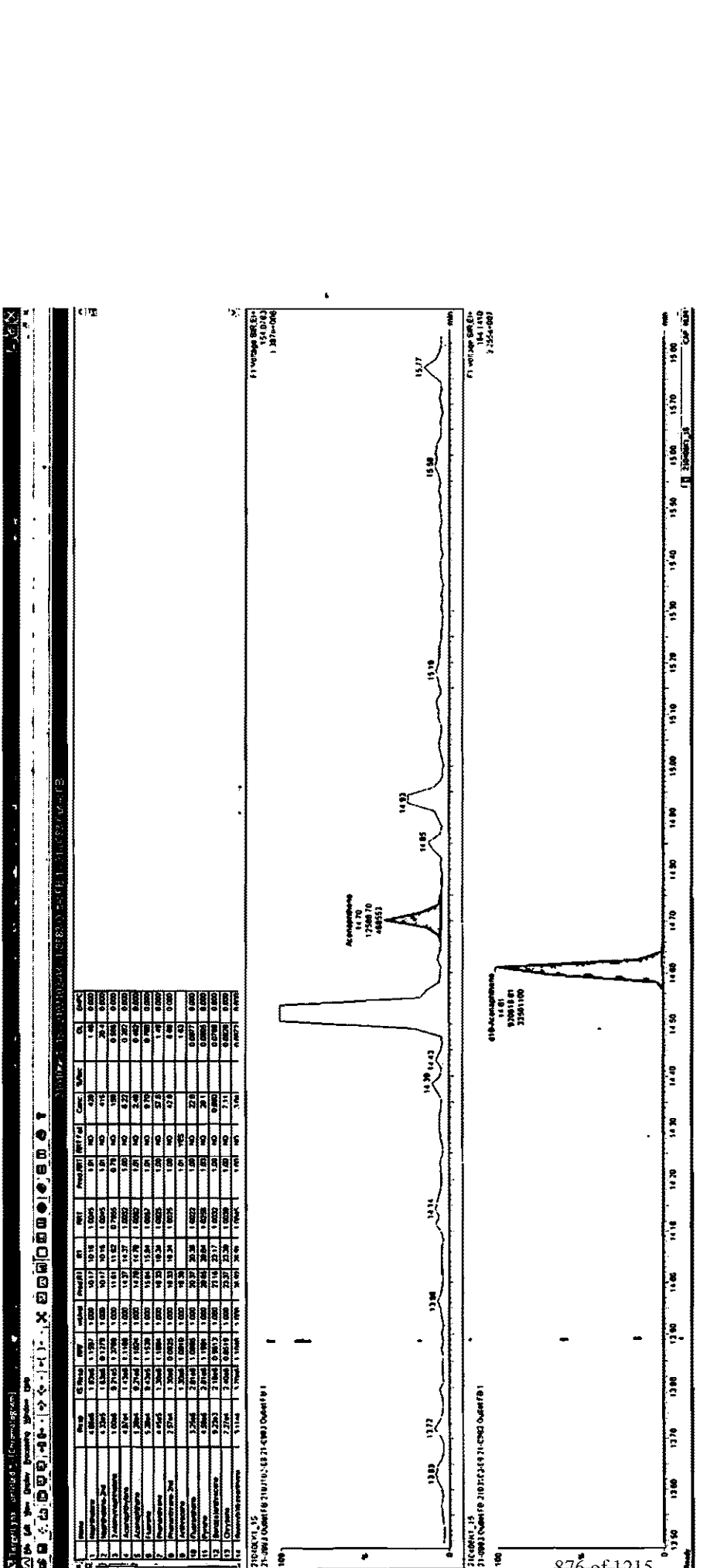
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB



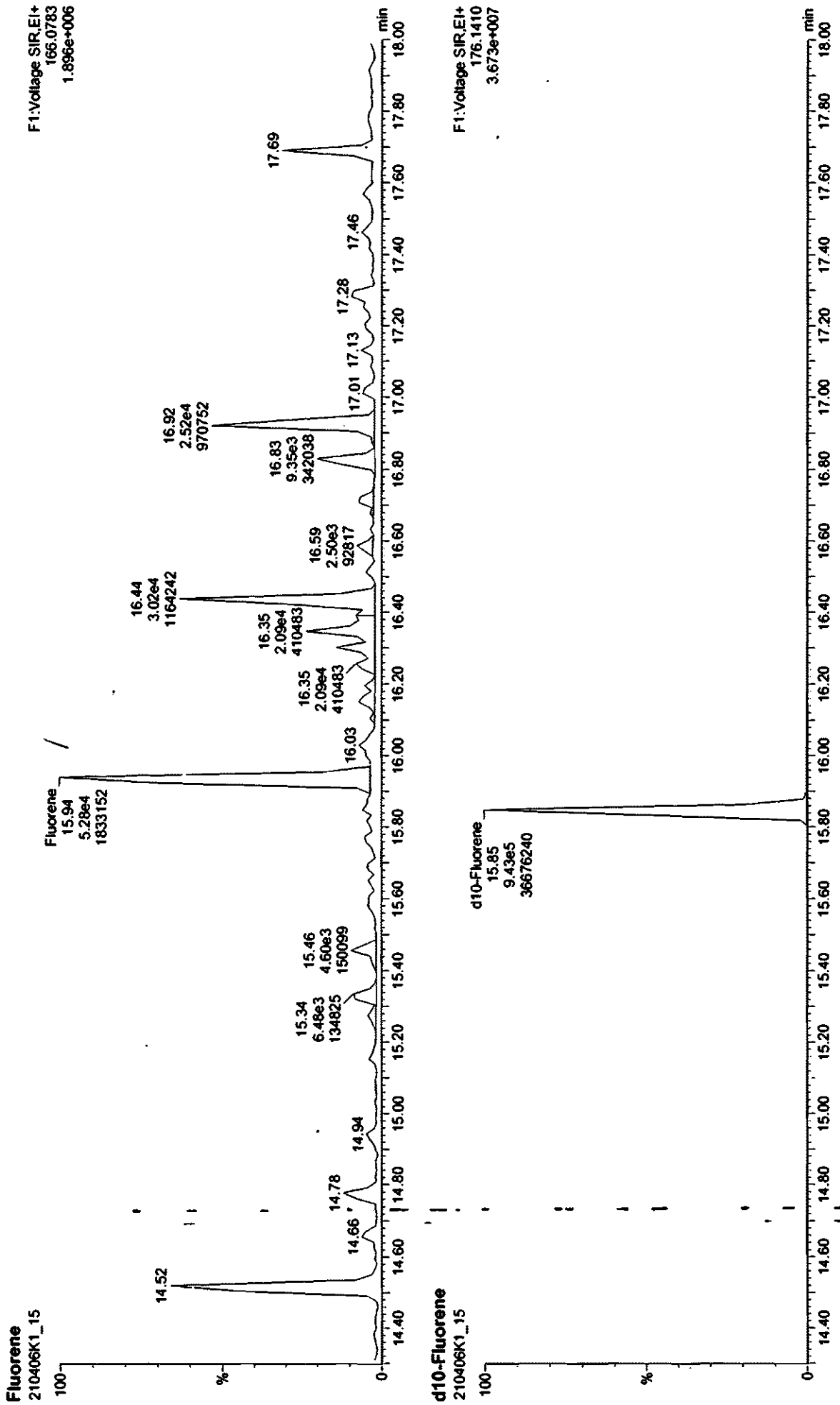


Quantify Sample Report
Vista Analytical Laboratory

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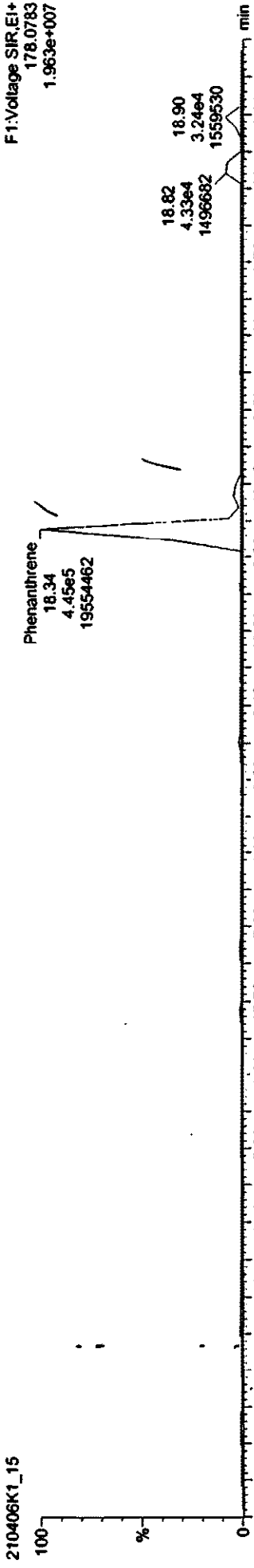


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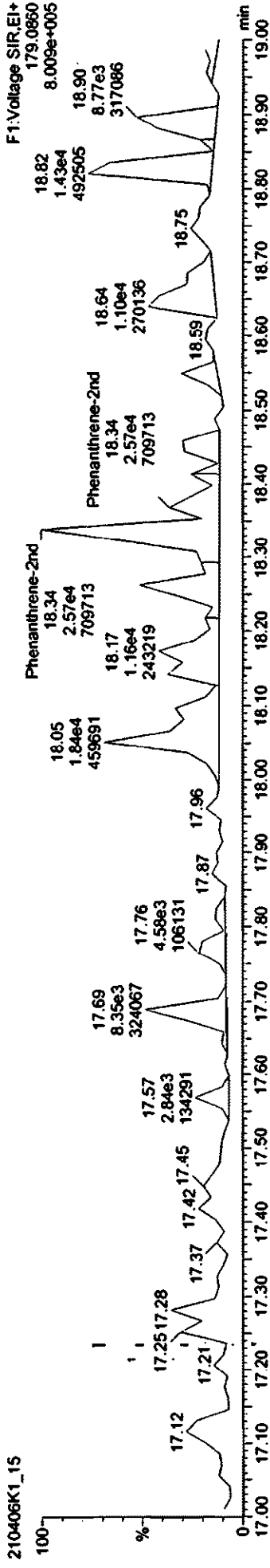
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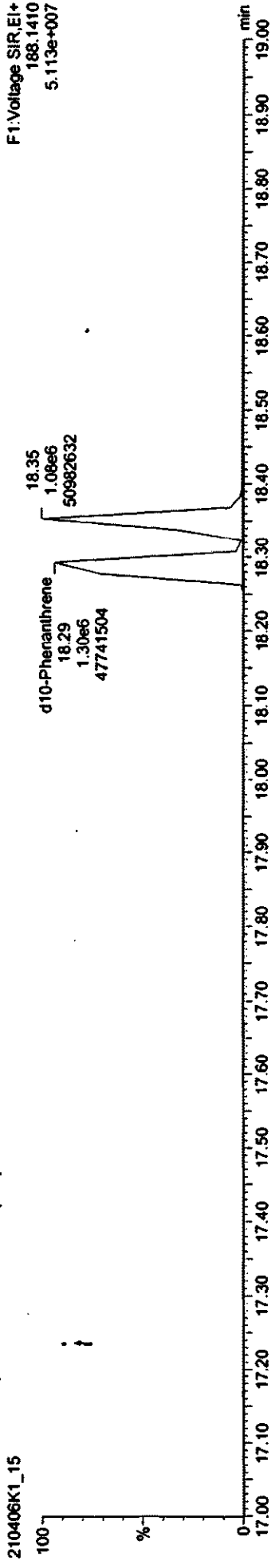
Phenanthrene; Anthracene



Phenanthrene-2nd

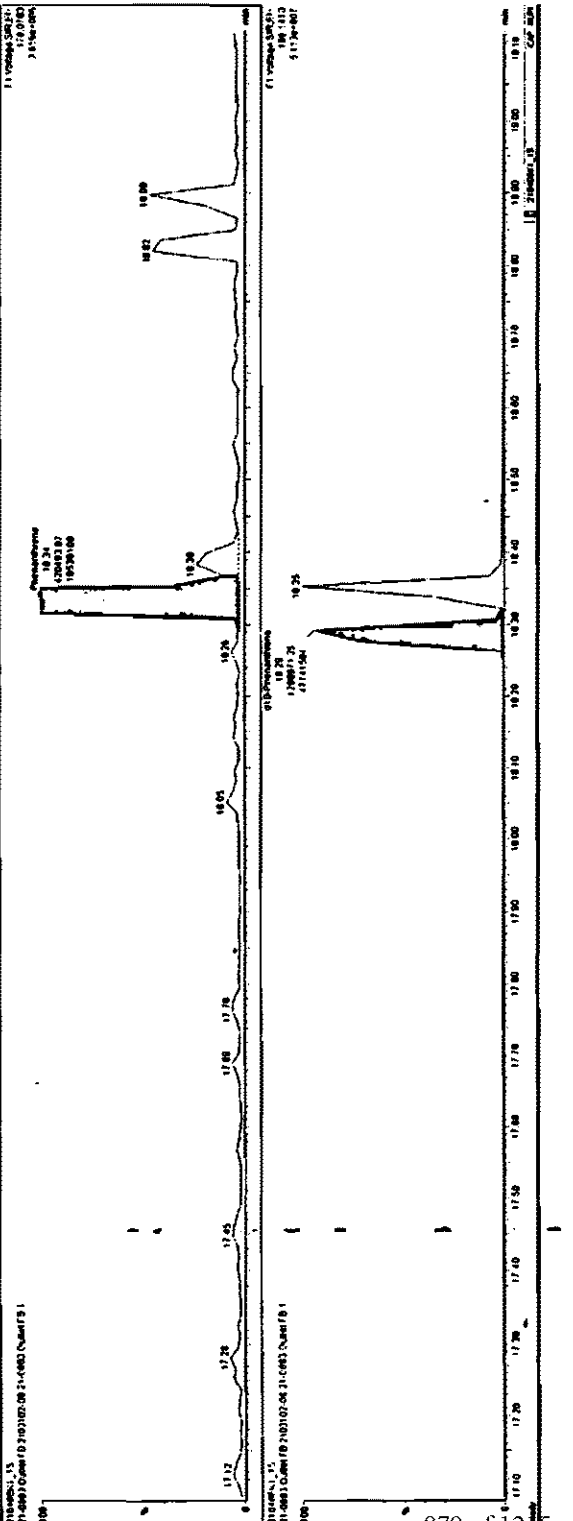


d10-Phenanthrene; d10-Anthracene (AS)



C:\Program Files\Microsoft Office\Office11\MSExcel.exe

| Area | Count | Ratio | Area | Count | Ratio |
|------|-------|-------|-------|-------|-------|
| 1 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 2 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 3 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 4 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 5 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 7 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 8 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 9 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 10 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 11 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 12 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 13 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 14 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 15 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 16 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 18 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 41 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 42 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 43 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 44 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 45 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 46 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 50 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 51 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 53 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 55 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 56 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 57 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 58 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 59 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 60 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 62 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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| 80 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 81 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 82 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 83 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 84 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 85 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 86 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 87 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 88 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 89 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 90 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 91 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 92 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 93 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 94 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 95 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 96 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 97 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 98 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
| 99 | 108.8 | 1.000 | 108.8 | 108.8 | 1.000 |
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Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled1

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

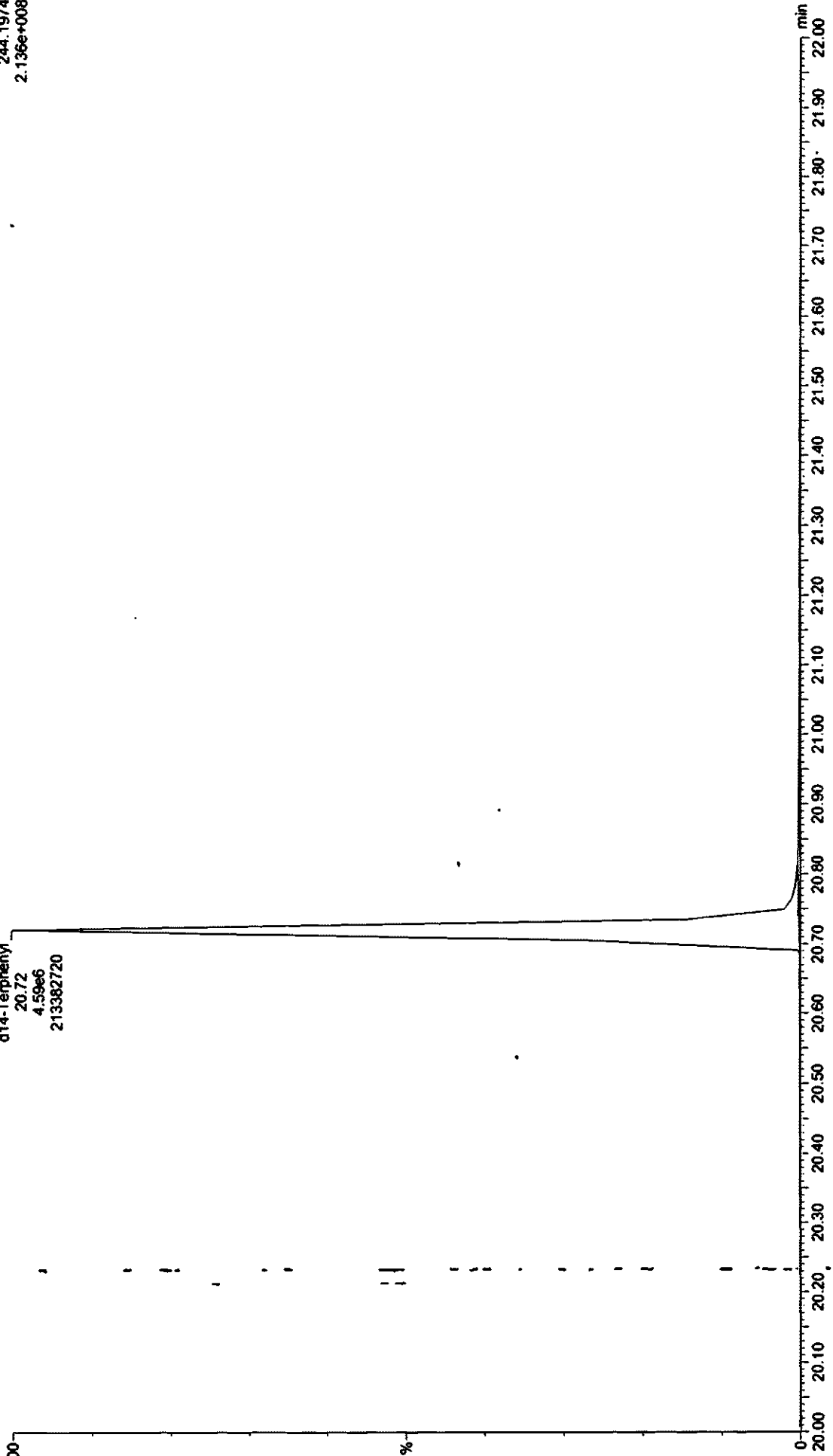
Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB

d14-Terphenyl (PS)

210406K1_15

d14-Terphenyl
20.72
4.59e6
213382720

F2:Voltage SIR.EI+
244.1974
2.136e+008

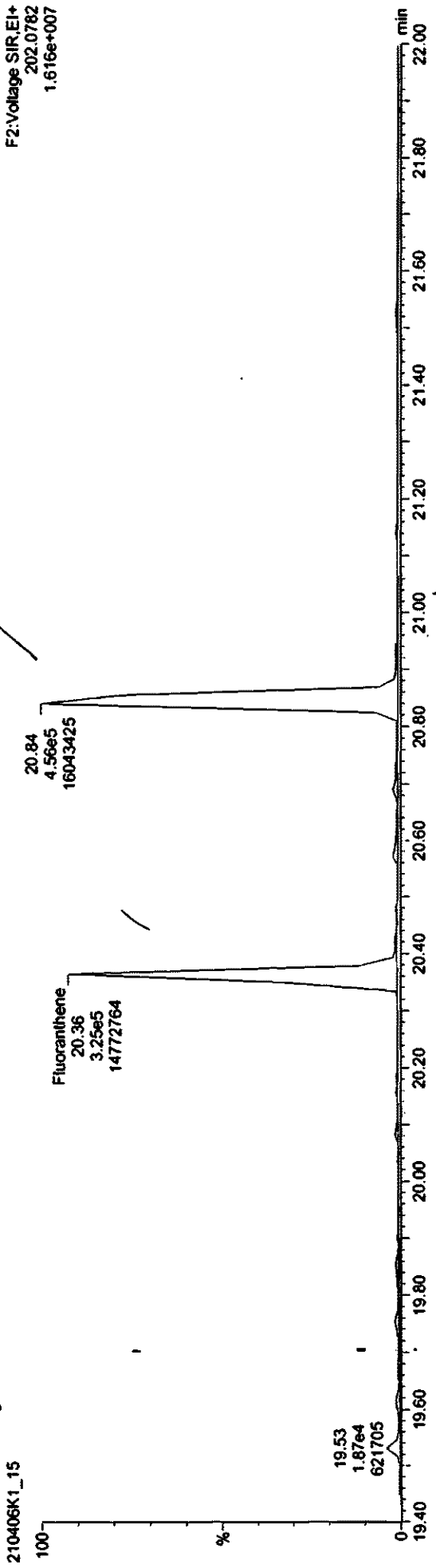


Dataset: Untitled

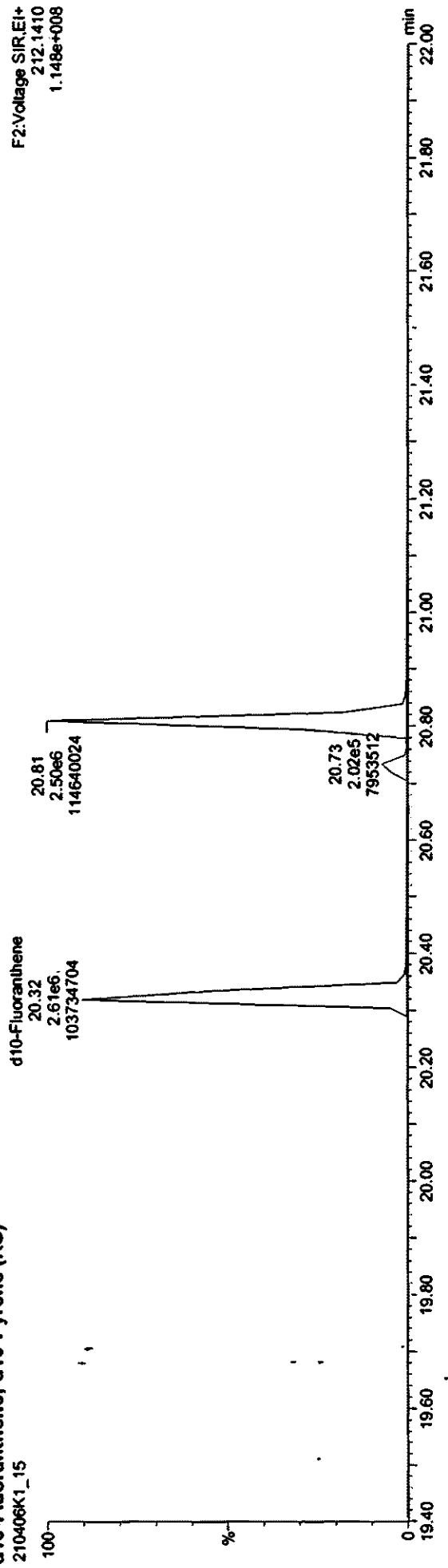
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB

Fluoranthene; Pyrene

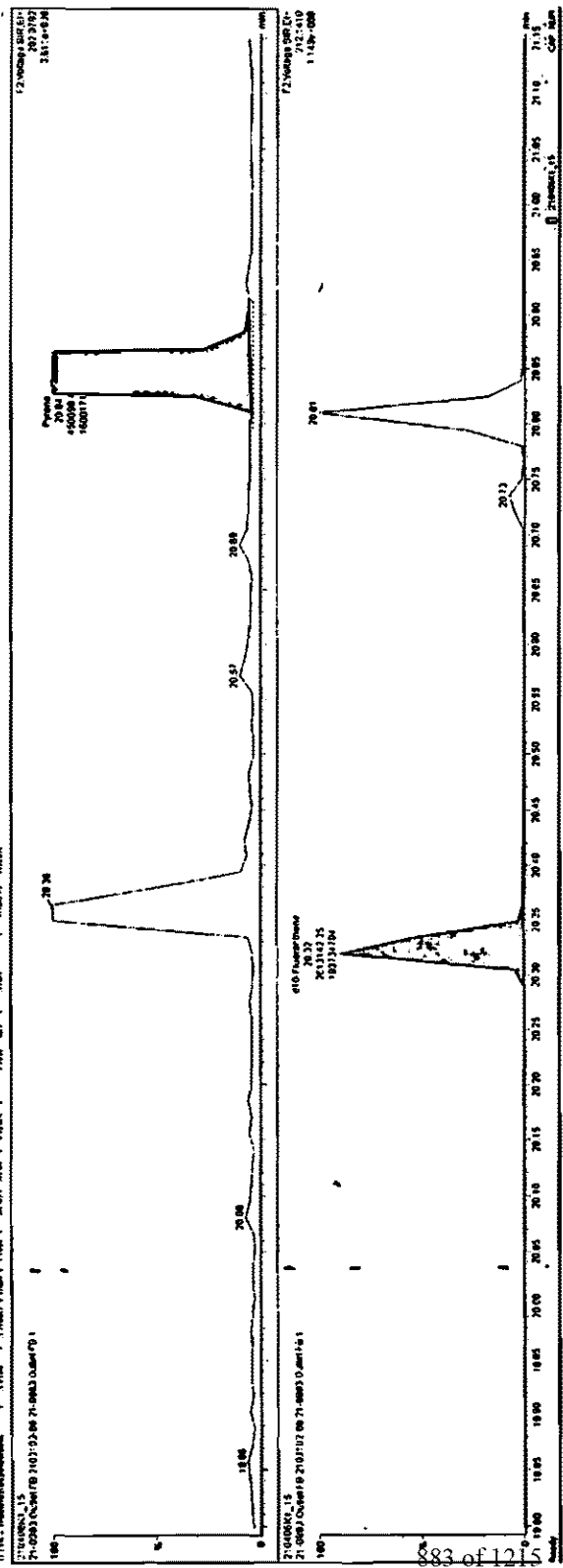


d10-Fluoranthene; d10-Pyrene (RS)



The file name (displaying the file name) The file name (displaying the file name)

| Time | Frequency | Amplitude | Phase | dB | dB | dB | dB | dB | dB | dB |
|-------|-----------|-----------|-------|-----|-----|-----|-----|-----|-----|-----|
| 0.00 | 1000 | 1.00 | 0.00 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1.00 | 1100 | 1.12 | 0.11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 2.00 | 1200 | 1.26 | 0.22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 3.00 | 1300 | 1.41 | 0.33 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 4.00 | 1400 | 1.57 | 0.44 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 5.00 | 1500 | 1.74 | 0.55 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 6.00 | 1600 | 1.93 | 0.66 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 7.00 | 1700 | 2.14 | 0.77 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 8.00 | 1800 | 2.36 | 0.88 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 9.00 | 1900 | 2.61 | 0.99 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 10.00 | 2000 | 2.88 | 1.10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 11.00 | 2100 | 3.18 | 1.21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 12.00 | 2200 | 3.51 | 1.32 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 13.00 | 2300 | 3.88 | 1.43 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 14.00 | 2400 | 4.29 | 1.54 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 15.00 | 2500 | 4.74 | 1.65 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 16.00 | 2600 | 5.24 | 1.76 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 17.00 | 2700 | 5.78 | 1.87 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 18.00 | 2800 | 6.37 | 1.98 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 19.00 | 2900 | 7.01 | 2.09 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 20.00 | 3000 | 7.70 | 2.20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 21.00 | 3100 | 8.45 | 2.31 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 22.00 | 3200 | 9.26 | 2.42 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 23.00 | 3300 | 10.13 | 2.53 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 24.00 | 3400 | 11.07 | 2.64 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 25.00 | 3500 | 12.08 | 2.75 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 26.00 | 3600 | 13.16 | 2.86 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 27.00 | 3700 | 14.32 | 2.97 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 28.00 | 3800 | 15.55 | 3.08 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 29.00 | 3900 | 16.87 | 3.19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 30.00 | 4000 | 18.28 | 3.30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 31.00 | 4100 | 19.78 | 3.41 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 32.00 | 4200 | 21.38 | 3.52 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 33.00 | 4300 | 23.08 | 3.63 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 34.00 | 4400 | 24.89 | 3.74 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 35.00 | 4500 | 26.82 | 3.85 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 36.00 | 4600 | 28.87 | 3.96 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 37.00 | 4700 | 31.05 | 4.07 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 38.00 | 4800 | 33.37 | 4.18 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 39.00 | 4900 | 35.84 | 4.29 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 40.00 | 5000 | 38.47 | 4.40 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 41.00 | 5100 | 41.27 | 4.51 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 42.00 | 5200 | 44.25 | 4.62 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 43.00 | 5300 | 47.42 | 4.73 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 44.00 | 5400 | 50.79 | 4.84 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 45.00 | 5500 | 54.37 | 4.95 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 46.00 | 5600 | 58.17 | 5.06 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 47.00 | 5700 | 62.19 | 5.17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 48.00 | 5800 | 66.44 | 5.28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 49.00 | 5900 | 70.93 | 5.39 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 50.00 | 6000 | 75.68 | 5.50 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 51.00 | 6100 | 80.71 | 5.61 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 52.00 | 6200 | 86.04 | 5.72 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 53.00 | 6300 | 91.69 | 5.83 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 54.00 | 6400 | 97.68 | 5.94 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 55.00 | 6500 | 104.04 | 6.05 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 56.00 | 6600 | 110.79 | 6.16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 57.00 | 6700 | 117.96 | 6.27 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 58.00 | 6800 | 125.58 | 6.38 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 59.00 | 6900 | 133.68 | 6.49 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 60.00 | 7000 | 142.29 | 6.60 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 61.00 | 7100 | 151.44 | 6.71 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 62.00 | 7200 | 161.17 | 6.82 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 63.00 | 7300 | 171.52 | 6.93 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 64.00 | 7400 | 182.53 | 7.04 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 65.00 | 7500 | 194.24 | 7.15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 66.00 | 7600 | 206.69 | 7.26 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 67.00 | 7700 | 219.93 | 7.37 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 68.00 | 7800 | 233.99 | 7.48 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 69.00 | 7900 | 248.92 | 7.59 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 70.00 | 8000 | 264.77 | 7.70 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 71.00 | 8100 | 281.60 | 7.81 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 72.00 | 8200 | 299.46 | 7.92 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 73.00 | 8300 | 318.41 | 8.03 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 74.00 | 8400 | 338.51 | 8.14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 75.00 | 8500 | 359.82 | 8.25 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 76.00 | 8600 | 382.40 | 8.36 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 77.00 | 8700 | 406.31 | 8.47 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 78.00 | 8800 | 431.62 | 8.58 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 79.00 | 8900 | 458.40 | 8.69 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 80.00 | 9000 | 486.73 | 8.80 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 81.00 | 9100 | 516.70 | 8.91 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 82.00 | 9200 | 548.40 | 9.02 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 83.00 | 9300 | 581.92 | 9.13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 84.00 | 9400 | 617.36 | 9.24 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 85.00 | 9500 | 654.83 | 9.35 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 86.00 | 9600 | 694.44 | 9.46 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 87.00 | 9700 | 736.30 | 9.57 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 88.00 | 9800 | 780.53 | 9.68 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 89.00 | 9900 | 827.26 | 9.79 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 90.00 | 10000 | 876.62 | 9.90 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |



Dataset: Untitled

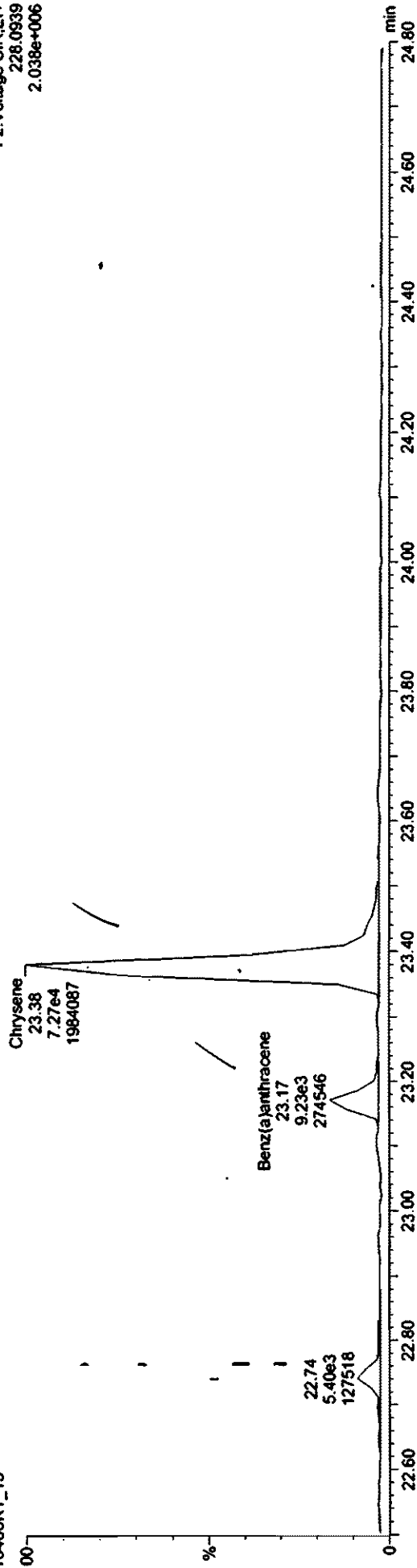
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB

Benz(a)Anthracene-Chrysene

210406K1_15

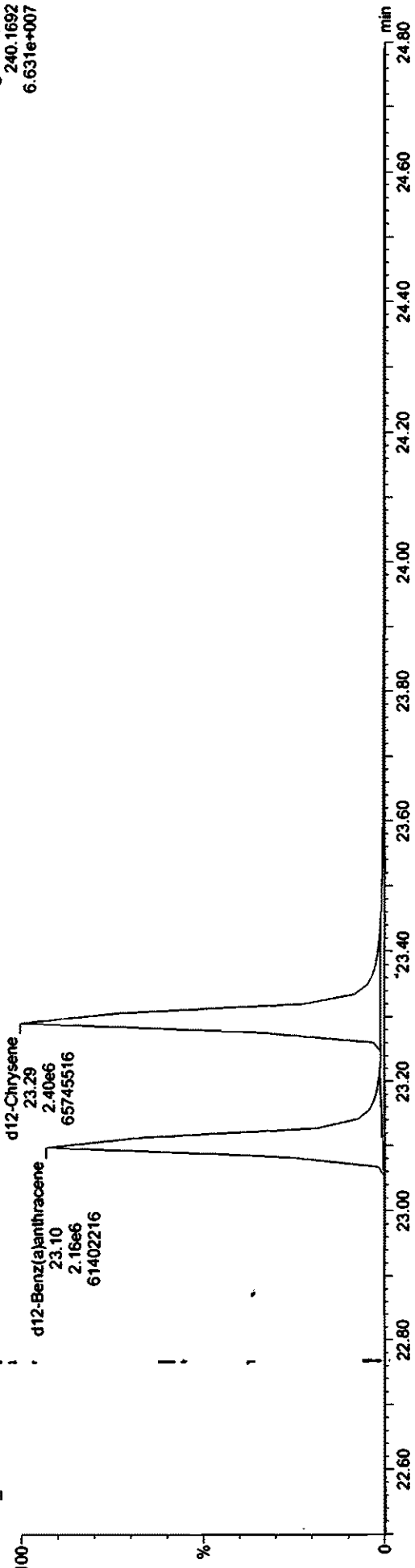
F2:Voltage SIR,EI+
228.0939
2.038e+006



Benz(a)Anthracene-Chrysene-Iso

210406K1_15

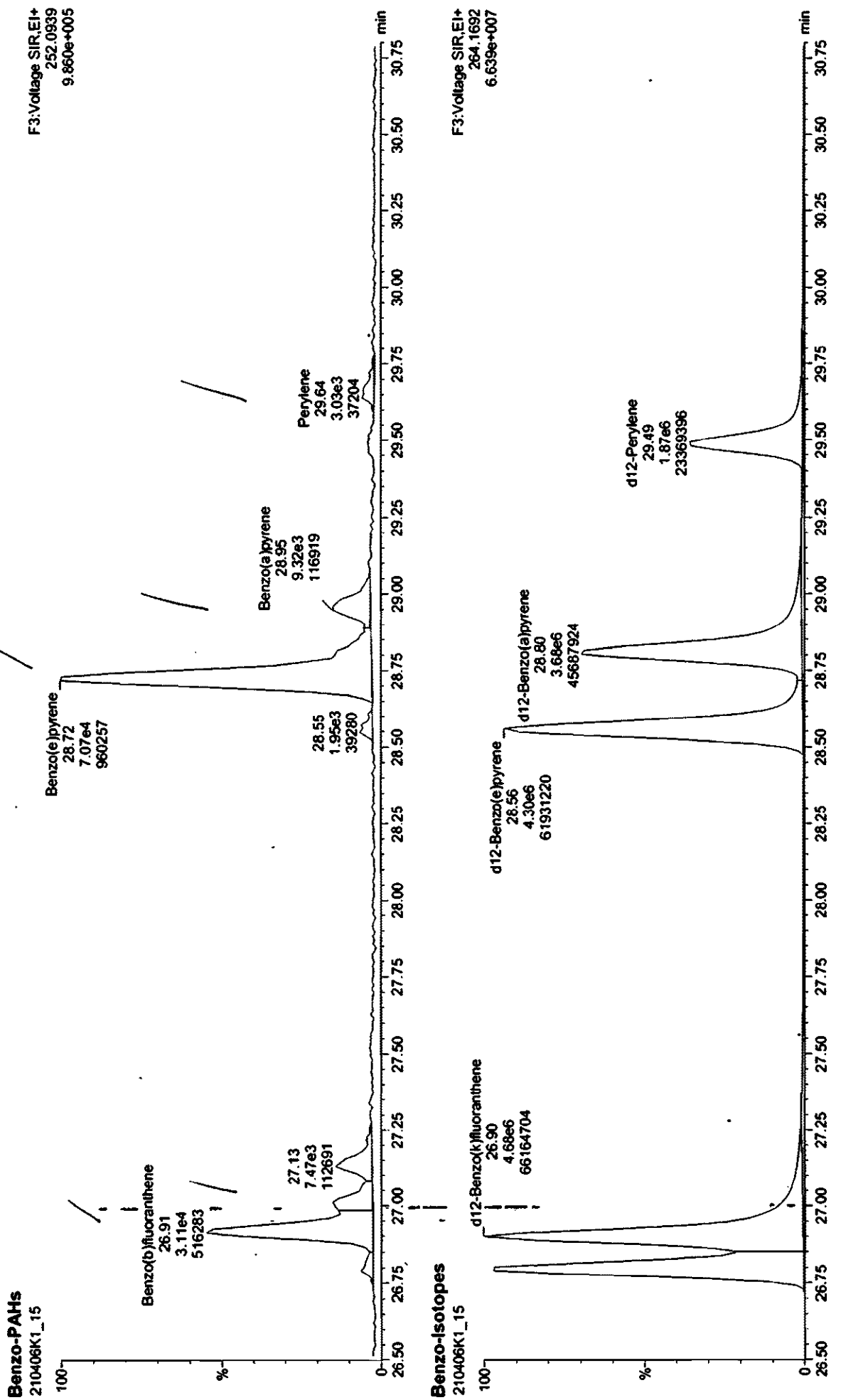
F2:Voltage SIR,EI+
240.1692
6.631e+007



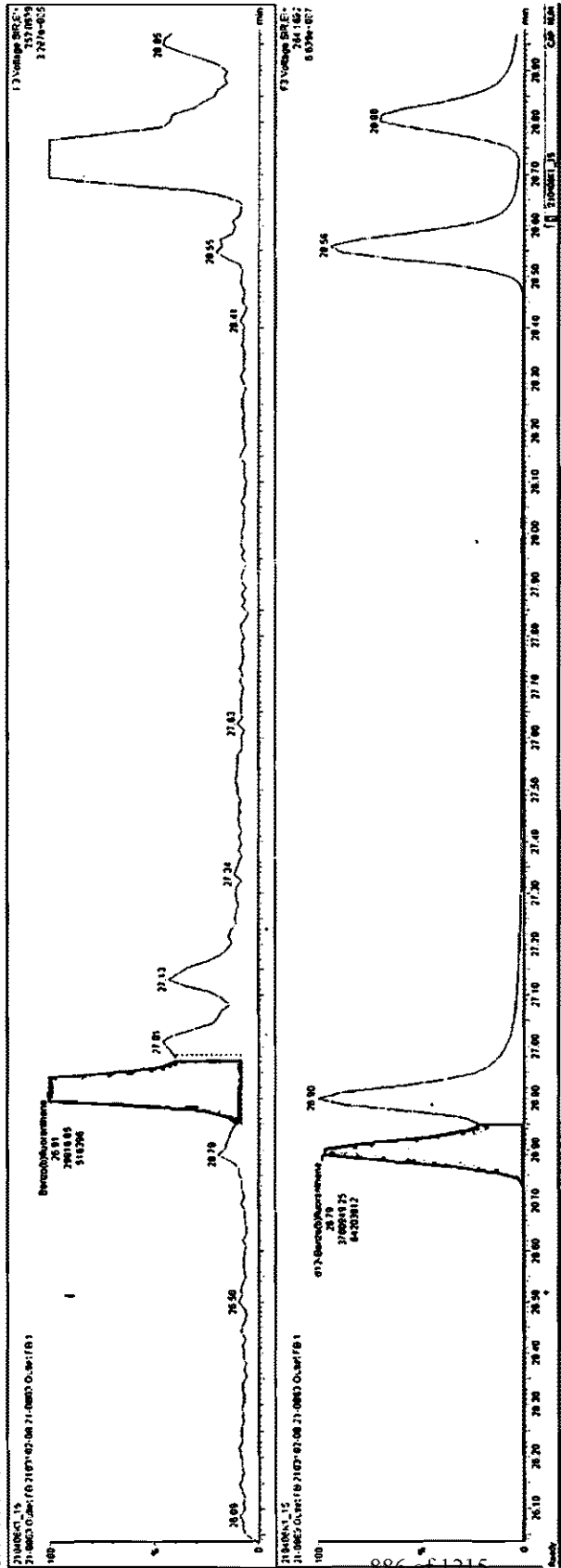
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

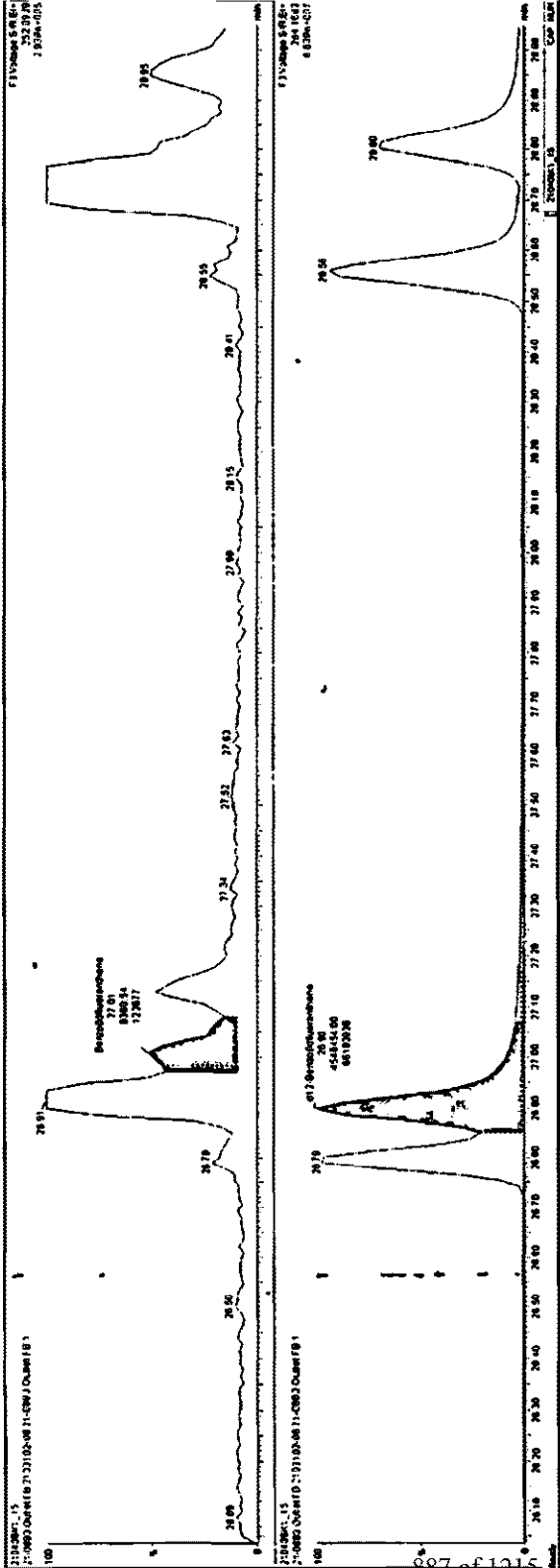
Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB



| Peak | RT | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height |
|------|-------|--------|--------|-------|--------|-------|--------|-------|--------|------|--------|-------|--------|
| 1 | 26.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 428 | 1.48 | 0.000 | |
| 2 | 27.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 415 | 20.4 | 0.000 | |
| 3 | 28.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 138 | 0.266 | 0.000 | |
| 4 | 29.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 8.22 | 0.242 | 0.000 | |
| 5 | 30.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 7.48 | 0.462 | 0.000 | |
| 6 | 31.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 7 | 32.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 8 | 33.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 9 | 34.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 10 | 35.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 11 | 36.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 12 | 37.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 13 | 38.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 14 | 39.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 15 | 40.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 16 | 41.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 17 | 42.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 18 | 43.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 19 | 44.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 20 | 45.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 21 | 46.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 22 | 47.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 23 | 48.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 24 | 49.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 25 | 50.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 26 | 51.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 27 | 52.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 28 | 53.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 29 | 54.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 30 | 55.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 31 | 56.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 32 | 57.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 33 | 58.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 34 | 59.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 35 | 60.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 36 | 61.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 37 | 62.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 38 | 63.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 39 | 64.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 40 | 65.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 41 | 66.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 42 | 67.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 43 | 68.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 44 | 69.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 45 | 70.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 46 | 71.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 47 | 72.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 48 | 73.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 49 | 74.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |
| 50 | 75.81 | 1.20E6 | 1.17E5 | 1.000 | 10.17 | 10.18 | 2.00E5 | 1.01 | 100 | 3.16 | 0.778 | 0.000 | |



| Peak # | Retention Time (min) | Area | Height | Width | Resolution | Integration | Concentration (%) |
|--------|----------------------|------|--------|-------|------------|-------------|-------------------|
| 1 | 28.09 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 2 | 28.15 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 3 | 28.21 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 4 | 28.31 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 5 | 28.34 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 6 | 28.35 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 7 | 28.36 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 8 | 28.37 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 9 | 28.38 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 10 | 28.39 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 11 | 28.40 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 12 | 28.41 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 13 | 28.42 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 14 | 28.43 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 15 | 28.44 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 16 | 28.45 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 17 | 28.46 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 18 | 28.47 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 19 | 28.48 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 20 | 28.49 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 21 | 28.50 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 22 | 28.51 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 23 | 28.52 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 24 | 28.53 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 25 | 28.54 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 26 | 28.55 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 27 | 28.56 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 28 | 28.57 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 29 | 28.58 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 30 | 28.59 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 31 | 28.60 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 32 | 28.61 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 33 | 28.62 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 34 | 28.63 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 35 | 28.64 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 36 | 28.65 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 37 | 28.66 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 38 | 28.67 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 39 | 28.68 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 40 | 28.69 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 41 | 28.70 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 42 | 28.71 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 43 | 28.72 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 44 | 28.73 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 45 | 28.74 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 46 | 28.75 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 47 | 28.76 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 48 | 28.77 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 49 | 28.78 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 50 | 28.79 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 51 | 28.80 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 52 | 28.81 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 53 | 28.82 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 54 | 28.83 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 55 | 28.84 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 56 | 28.85 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 57 | 28.86 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 58 | 28.87 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 59 | 28.88 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 60 | 28.89 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 61 | 28.90 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 62 | 28.91 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 63 | 28.92 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 64 | 28.93 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 65 | 28.94 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 66 | 28.95 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 67 | 28.96 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 68 | 28.97 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 69 | 28.98 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 70 | 28.99 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 71 | 29.00 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 72 | 29.01 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 73 | 29.02 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 74 | 29.03 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 75 | 29.04 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 76 | 29.05 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 77 | 29.06 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 78 | 29.07 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 79 | 29.08 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 80 | 29.09 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 81 | 29.10 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 82 | 29.11 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 83 | 29.12 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 84 | 29.13 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 85 | 29.14 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 86 | 29.15 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 87 | 29.16 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 88 | 29.17 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 89 | 29.18 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 90 | 29.19 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 91 | 29.20 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 92 | 29.21 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 93 | 29.22 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 94 | 29.23 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 95 | 29.24 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 96 | 29.25 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 97 | 29.26 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
| 98 | 29.27 | 1000 | 1000 | 1.00 | 1.00 | 1000 | 1.1 |
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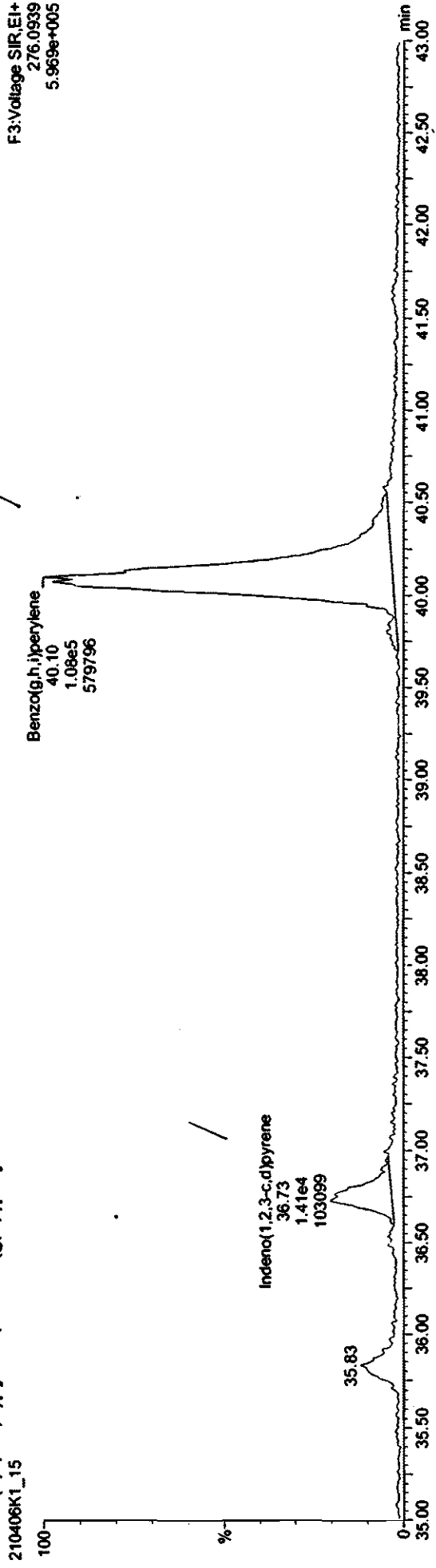
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB

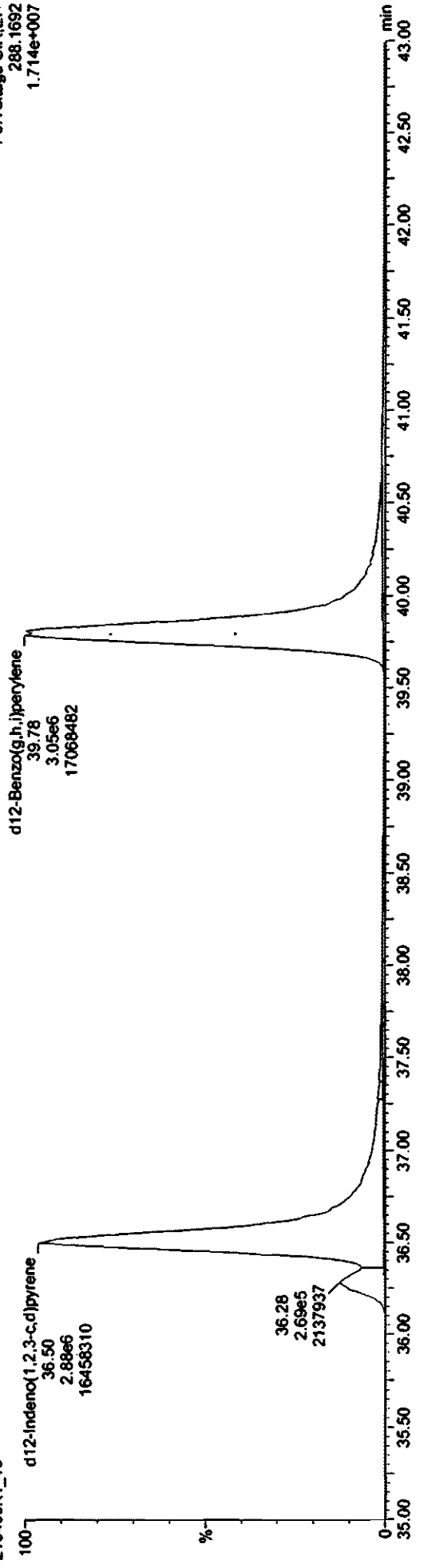
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
5.969e+005

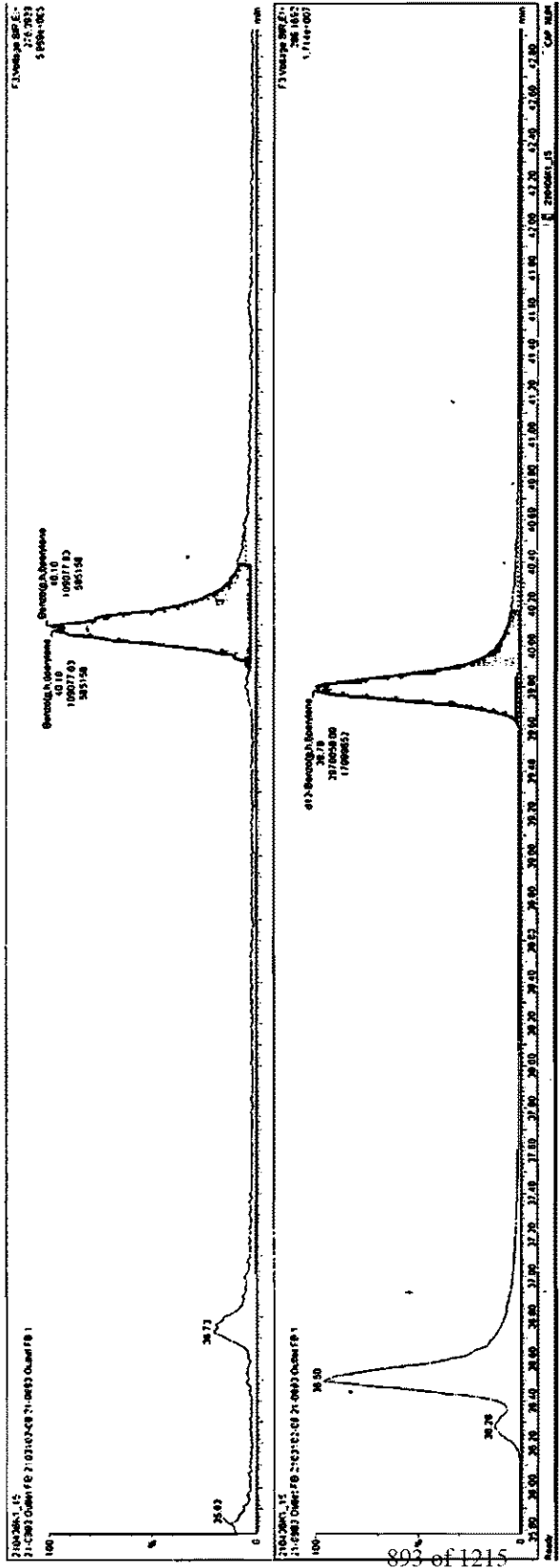


d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
288.1692
1.714e+007



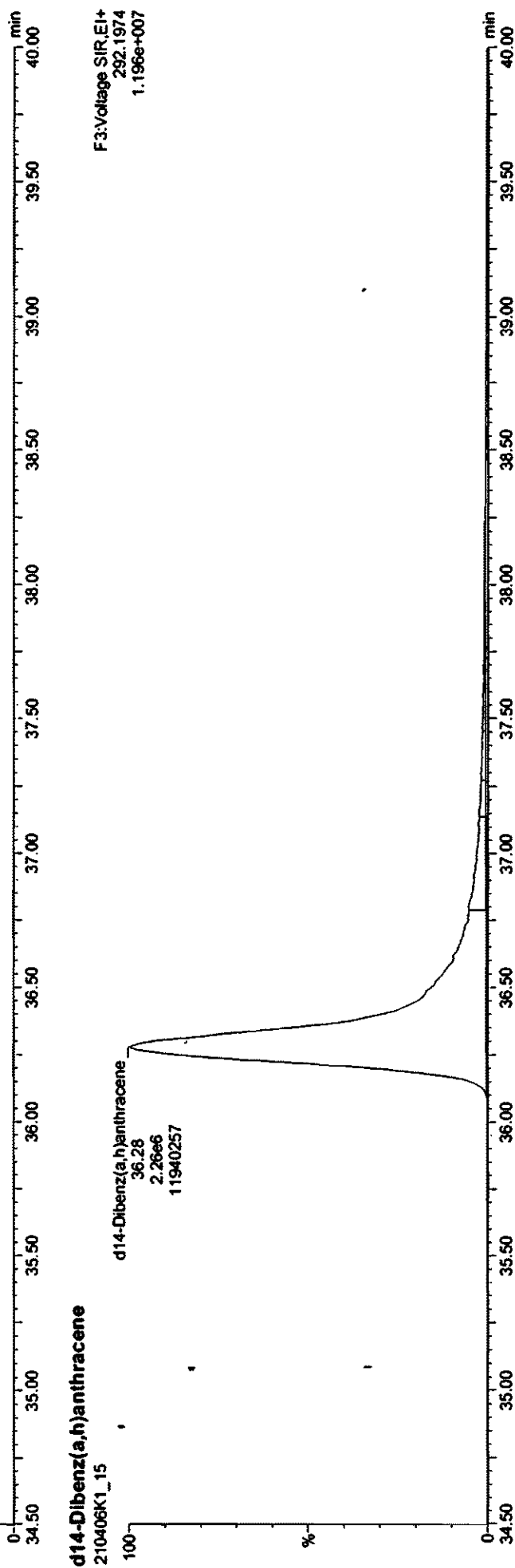
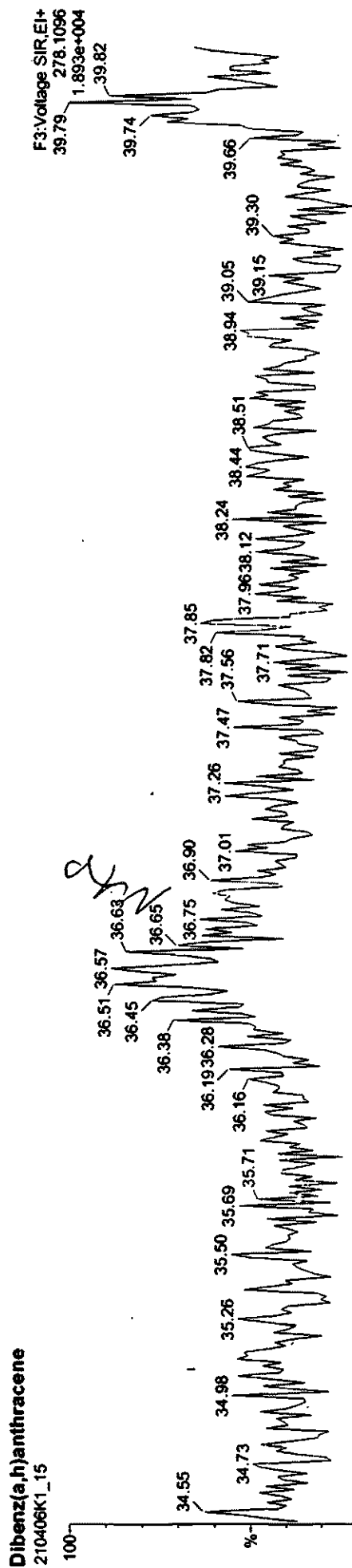
| Peak | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Area% | Height% |
|------|----------------------|------|--------|-------|--------------|-------------|-------|---------|
| 1 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 2 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 3 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 4 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 5 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 6 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 7 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 8 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 9 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 10 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 11 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 12 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 13 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 14 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 15 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 16 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 17 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 18 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 19 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 20 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 21 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 22 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 23 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 24 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 25 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 26 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 27 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 28 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 29 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 30 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 31 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 32 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 33 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 34 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 35 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 36 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 37 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 38 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 39 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 40 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 41 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 42 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 43 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 44 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 45 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 46 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 47 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 48 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 49 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 50 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 51 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 52 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 53 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 54 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 55 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 56 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 57 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 58 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 59 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 60 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 61 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 62 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 63 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 64 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 65 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 66 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 67 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 68 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 69 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 70 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 71 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 72 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 73 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 74 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 75 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 76 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
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| 84 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 85 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
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| 89 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 90 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 91 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 92 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 93 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 94 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 95 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 96 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
| 97 | 2.363 | 1000 | 1000 | 1.000 | 1000 | 1000 | 0.100 | 0.100 |
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Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_15, Date: 06-Apr-2021, Time: 22:10:28, ID: 2103102-08 21-0883 Outlet FB 1, Description: 21-0883 Outlet FB



Quantify Sample Summary Report
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-13.qld

Last Altered: Wednesday, April 07, 2021 9:41:46 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 9:42:30 AM Pacific Daylight Time

Handwritten: W.A. 2. W.A. C104/08/2021

Method: U:\VG11.PRO\MethDB\IPAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

| # Name | Resp | IS Resp | RRF | wVol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|-----------------------------|--------|---------|--------|-------|---------|-------|----------|-------|---------|-------|------|--------|
| 1 Naphthalene | 9.21e4 | 1.86e6 | 1.16 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 8.56 | | 0.216 |
| 2 Naphthalene-2nd | 1.03e4 | 1.86e6 | 0.128 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 8.98 | | 1.84 |
| 3 2-Methylnaphthalene | 7.61e4 | 1.03e6 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 10.7 | | 0.148 |
| 4 Acenaphthylene | 1.59e3 | 1.60e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 0.177 | | 0.109 |
| 5 Acenaphthene | | 1.03e6 | 1.10 | 1.000 | 14.70 | | 1.006 | | YES | | | 0.220 |
| 6 Fluorene | 3.44e3 | 1.01e6 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 0.587 | | 0.123 |
| 7 Phenanthrene | 1.15e4 | 1.51e6 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 1.28 | | 0.0912 |
| 8 Phenanthrene-2nd | | 1.51e6 | 0.0925 | 1.000 | 18.33 | | 1.002 | | NO | | | 1.08 |
| 9 Anthracene | 1.65e3 | 1.51e6 | 1.09 | 1.000 | 18.39 | 18.38 | 1.005 | 1.005 | NO | 0.199 | | 0.0994 |
| 10 Fluoranthene | 6.79e3 | 2.25e6 | 1.10 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 0.550 | | 0.0413 |
| 11 Pyrene | 1.23e4 | 2.25e6 | 1.20 | 1.000 | 20.87 | 20.84 | 1.026 | 1.025 | NO | 0.912 | | 0.0379 |
| 12 Benz(a)anthracene | 9.38e2 | 1.54e6 | 0.961 | 1.000 | 23.19 | 23.19 | 1.003 | 1.003 | NO | 0.127 | | 0.0679 |
| 13 Chrysene | 1.84e3 | 1.87e6 | 0.852 | 1.000 | 23.40 | 23.39 | 1.003 | 1.003 | NO | 0.231 | | 0.0733 |
| 14 Benzo(b)fluoranthene | 3.92e3 | 3.16e6 | 1.10 | 1.000 | 26.96 | 26.94 | 1.005 | 1.004 | NO | 0.449 | | 0.0940 |
| 15 Benzo(k)fluoranthene | | 4.00e6 | 1.04 | 1.000 | 27.05 | | 1.004 | | YES | | | 0.101 |
| 16 Benzo(a)pyrene | 1.22e3 | 4.00e6 | 0.911 | 1.000 | 28.74 | 28.75 | 1.067 | 1.067 | NO | 0.134 | | 0.115 |
| 17 Benzo(a)pyrene | | 2.94e6 | 1.02 | 1.000 | 29.01 | | 1.006 | | YES | | | 0.164 |
| 18 Perylene | | 2.94e6 | 0.987 | 1.000 | 29.75 | | 1.031 | | NO | | | 0.169 |
| 19 Indeno(1,2,3-c,d)pyrene | | 2.68e6 | 0.915 | 1.000 | 37.03 | | 1.007 | | YES | | | 0.357 |
| 20 Benzo(g,h,i)perylene | | 2.68e6 | 0.940 | 1.000 | 40.60 | | 1.009 | | YES | | | 0.367 |
| 21 Dibenz(a,h)anthracene | | 2.09e6 | 0.948 | 1.000 | 36.92 | | 1.011 | | YES | | | 0.468 |
| 22 d8-Naphthalene | 1.86e6 | 1.96e6 | 1.20 | 1.000 | 10.12 | 10.10 | 0.848 | 0.847 | NO | 157 | 78.5 | 0.126 |
| 23 d8-Acenaphthylene | 1.60e6 | 1.96e6 | 0.905 | 1.000 | 14.33 | 14.32 | 1.201 | 1.201 | NO | 180 | 90.2 | 0.0329 |
| 24 d10-Acenaphthene | 1.03e6 | 1.96e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 177 | 88.5 | 0.0280 |
| 25 d10-Fluorene | 1.01e6 | 1.96e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 184 | 91.8 | 0.0308 |
| 26 d10-Phenanthrene | 1.51e6 | 1.96e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 210 | 105 | 0.0215 |
| 27 d10-Fluoranthene | 2.25e6 | 1.96e6 | 1.29 | 1.000 | 20.33 | 20.33 | 0.977 | 0.977 | NO | 178 | 89.0 | 0.0123 |
| 28 d12-Benz(a)anthracene | 1.54e6 | 1.96e6 | 0.900 | 1.000 | 23.11 | 23.13 | 1.110 | 1.111 | NO | 175 | 87.4 | 0.0261 |
| 29 d12-Chrysene | 1.87e6 | 1.96e6 | 1.02 | 1.000 | 23.30 | 23.32 | 1.120 | 1.121 | NO | 187 | 93.3 | 0.0230 |
| 30 d12-Benzo(b)fluoranthene | 3.16e6 | 1.50e6 | 1.18 | 1.000 | 26.81 | 26.83 | 0.907 | 0.908 | NO | 356 | 88.9 | 0.206 |
| 31 d12-Benzo(k)fluoranthene | 4.00e6 | 1.50e6 | 1.50 | 1.000 | 26.91 | 26.94 | 0.911 | 0.912 | NO | 354 | 88.6 | 0.162 |

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-13.qtd

Last Altered: Wednesday, April 07, 2021 9:41:46 AM Pacific Daylight Time
 Printed: Wednesday, April 07, 2021 9:42:30 AM Pacific Daylight Time

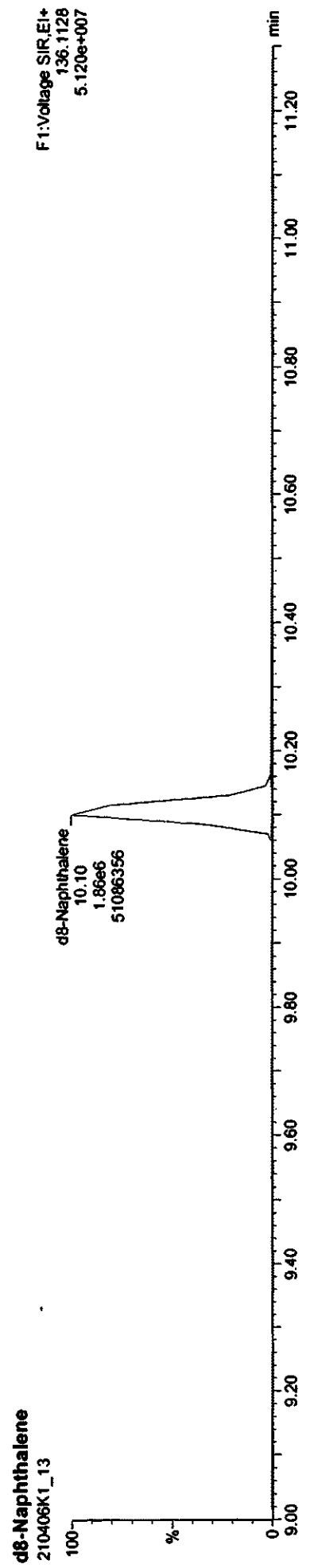
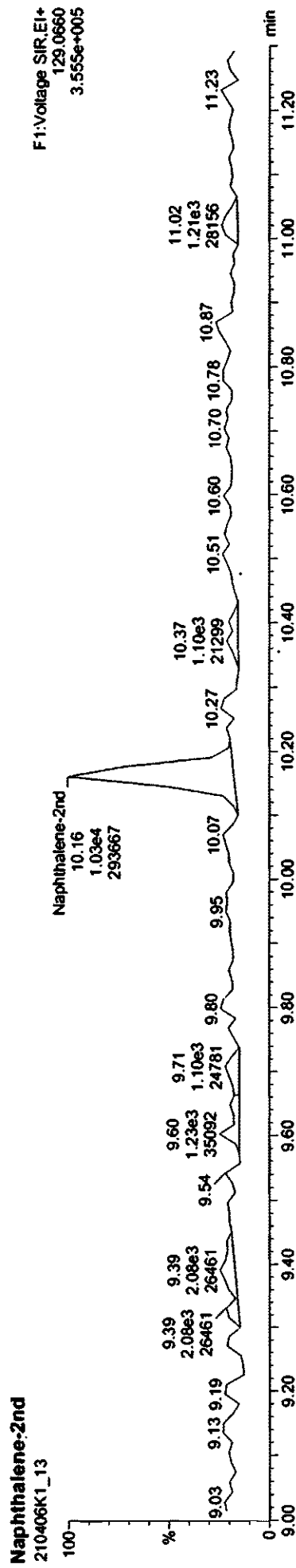
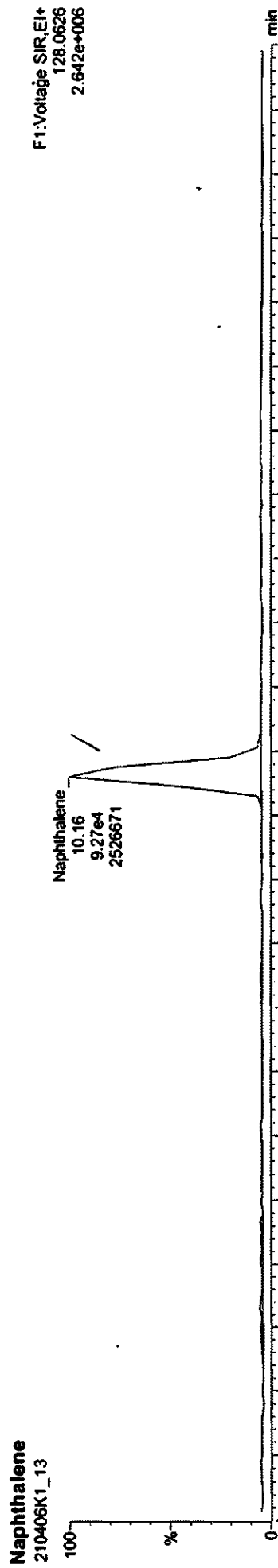
Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

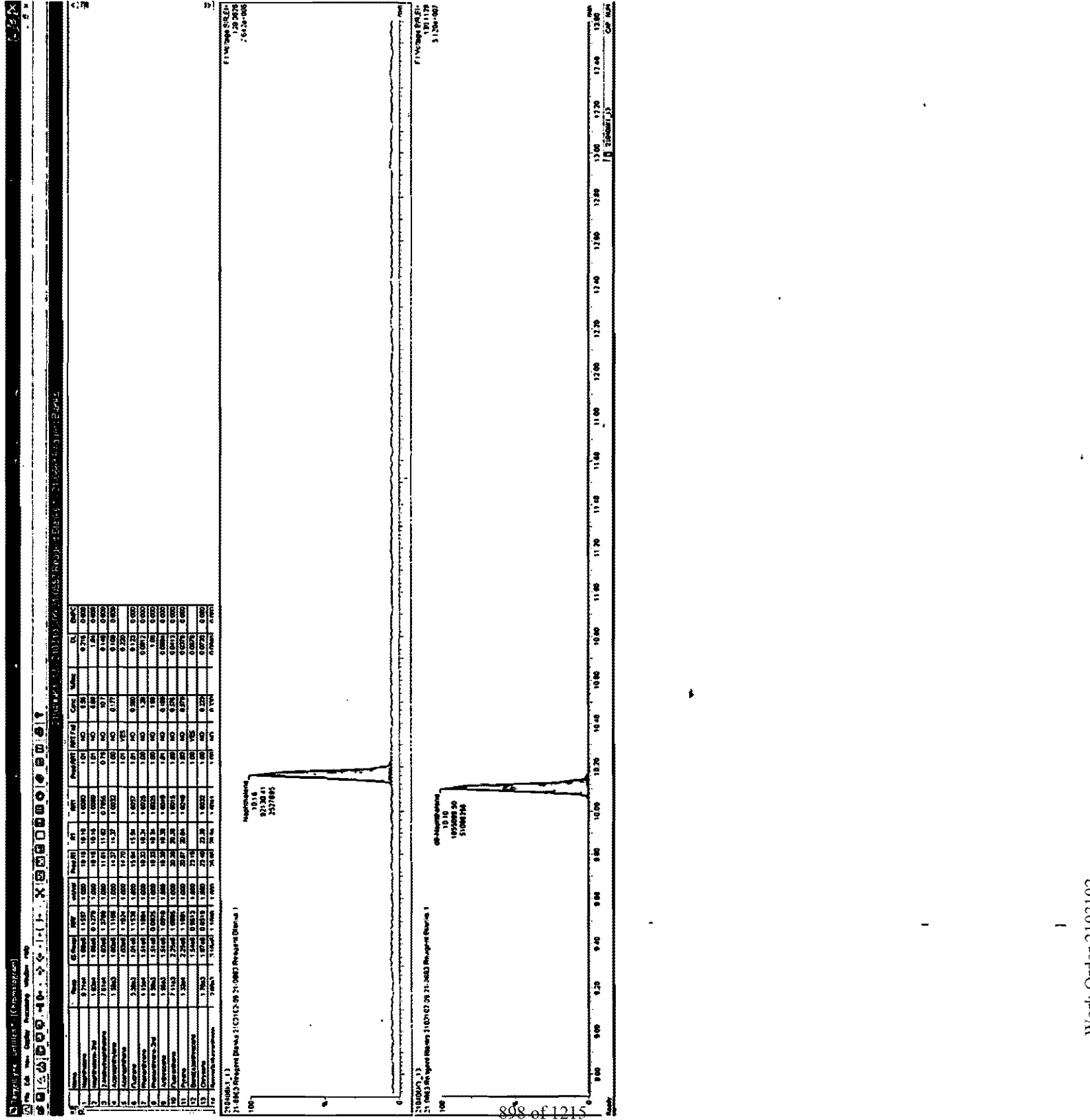
| L# | Name | Resp | IS Resp | RRF | w/vol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 32 | d12-Benz(a)pyrene | 2.94e6 | 1.50e6 | 1.24 | 1.000 | 28.80 | 28.84 | 0.975 | 0.976 | NO | 316 | 78.9 | 0.196 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 2.68e6 | 1.50e6 | 1.02 | 1.000 | 36.84 | 36.78 | 1.247 | 1.245 | NO | 350 | 87.4 | 0.289 |
| 34 | d12-Benz(o,g,h,i)perylene | 2.68e6 | 1.50e6 | 1.00 | 1.000 | 40.24 | 40.22 | 1.362 | 1.361 | NO | 354 | 88.6 | 0.293 |
| 35 | d14-Dibenz(a,h)anthracene | 2.09e6 | 1.50e6 | 0.765 | 1.000 | 36.61 | 36.51 | 1.239 | 1.236 | NO | 363 | 90.6 | 0.311 |
| 36 | d10-Anthracene | 1.10e6 | 1.50e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 148 | 74.1 | 0.0863 |
| 37 | d10-1-Methylnaphthalene | 1.76e6 | 1.76e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.0286 |
| 38 | d10-Pyrene | 1.96e6 | 1.96e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 200 | 100 | 0.0159 |
| 39 | d12-Perylene | 1.50e6 | 1.50e6 | 1.00 | 1.000 | 29.59 | 29.54 | 1.000 | 1.000 | NO | 200 | 100 | 0.243 |

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

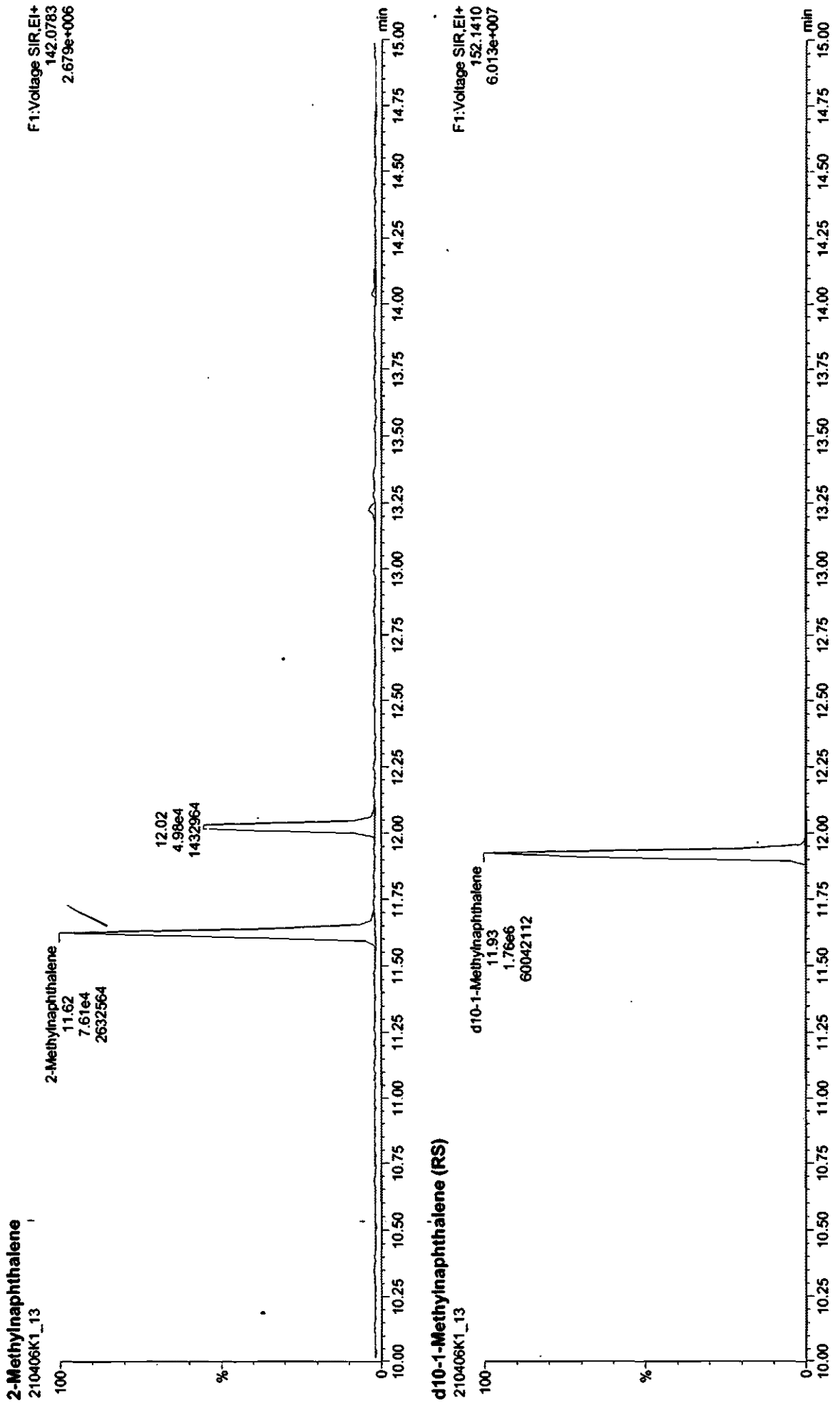




Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks



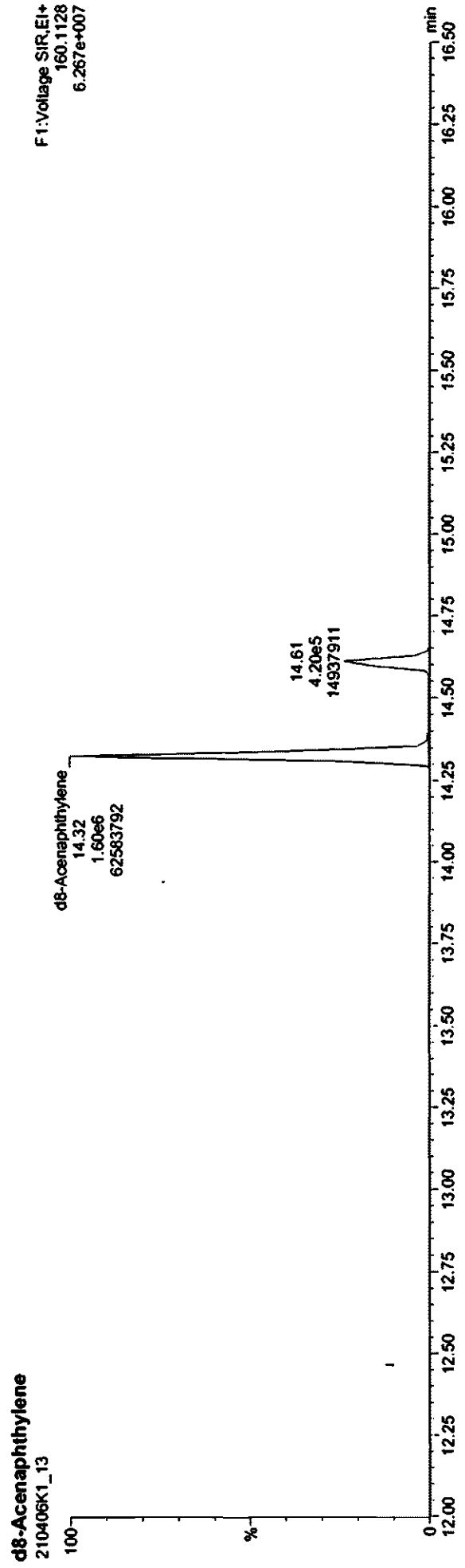
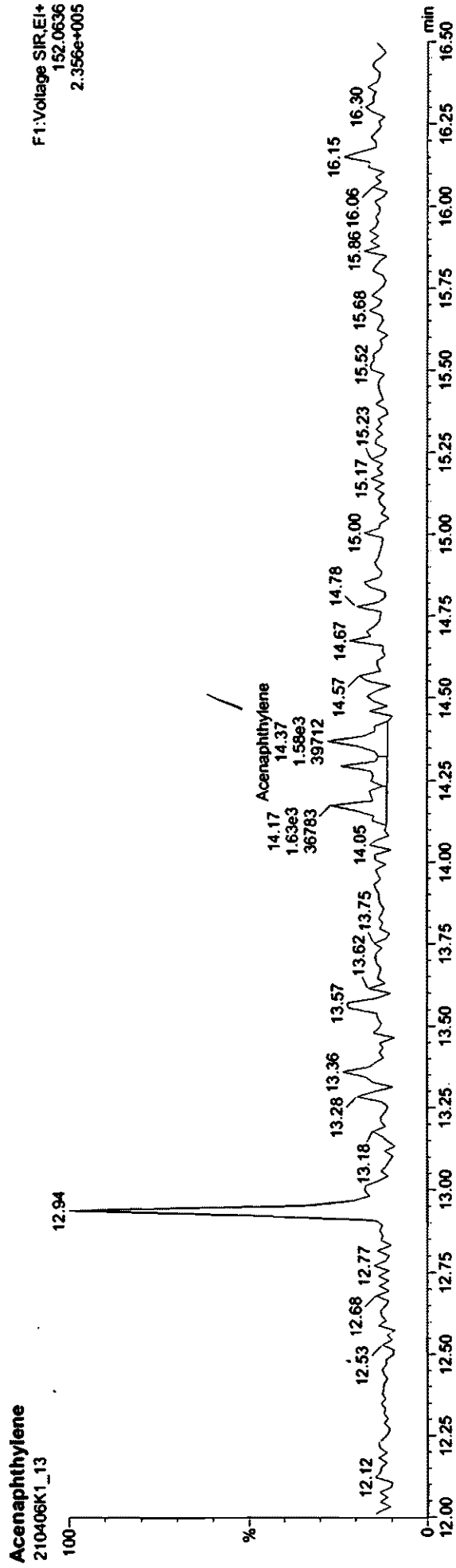
F1:Voltage SIR,EI+
142.0783
2.679e+006

F1:Voltage SIR,EI+
152.1410
6.013e+007

Dataset: Untitled

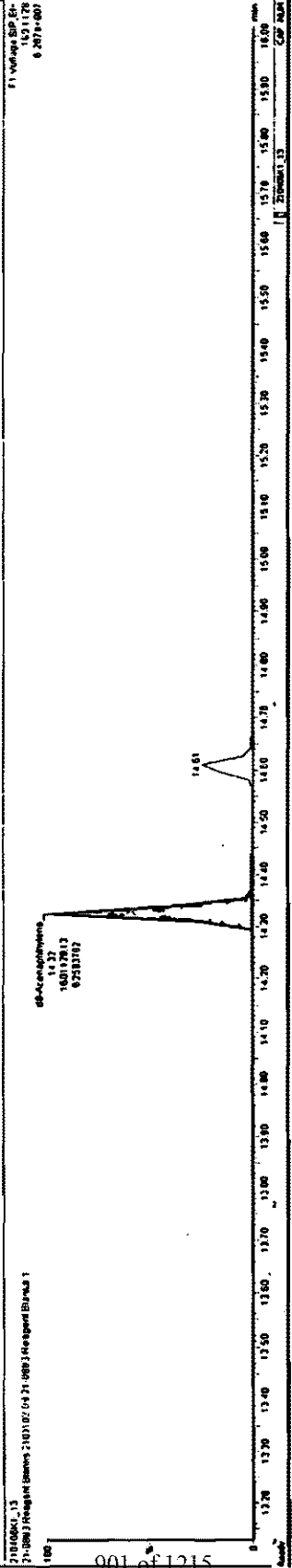
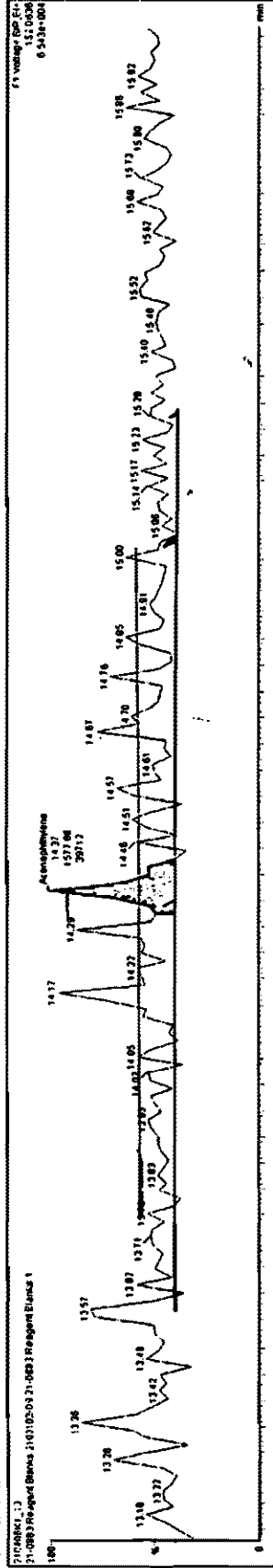
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks



Toolbar icons including file, edit, and zoom options.

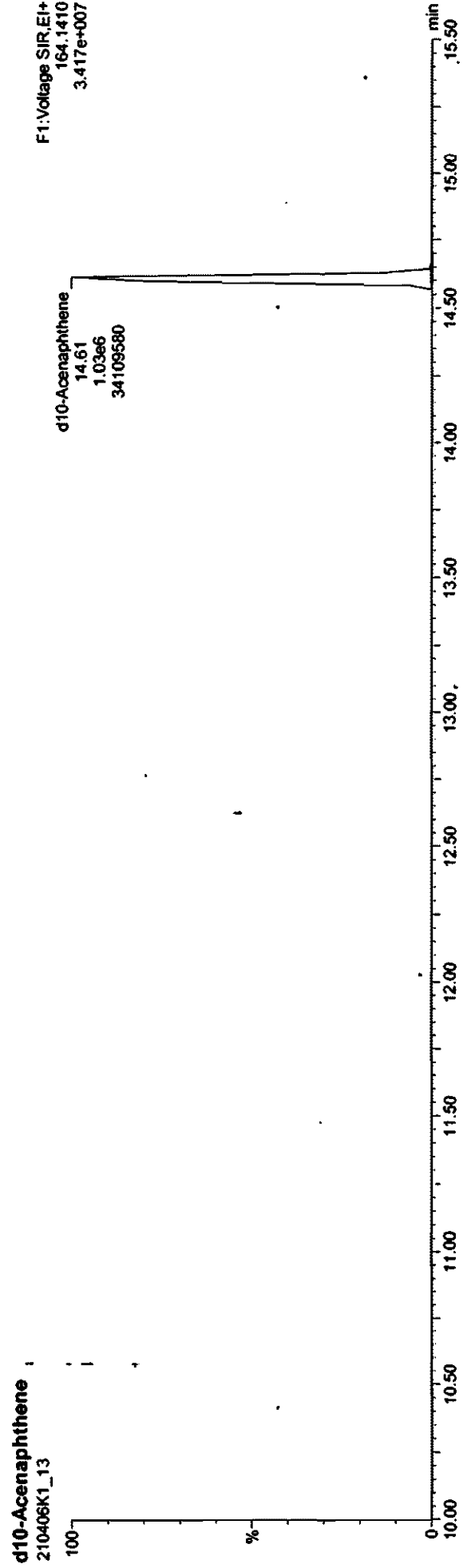
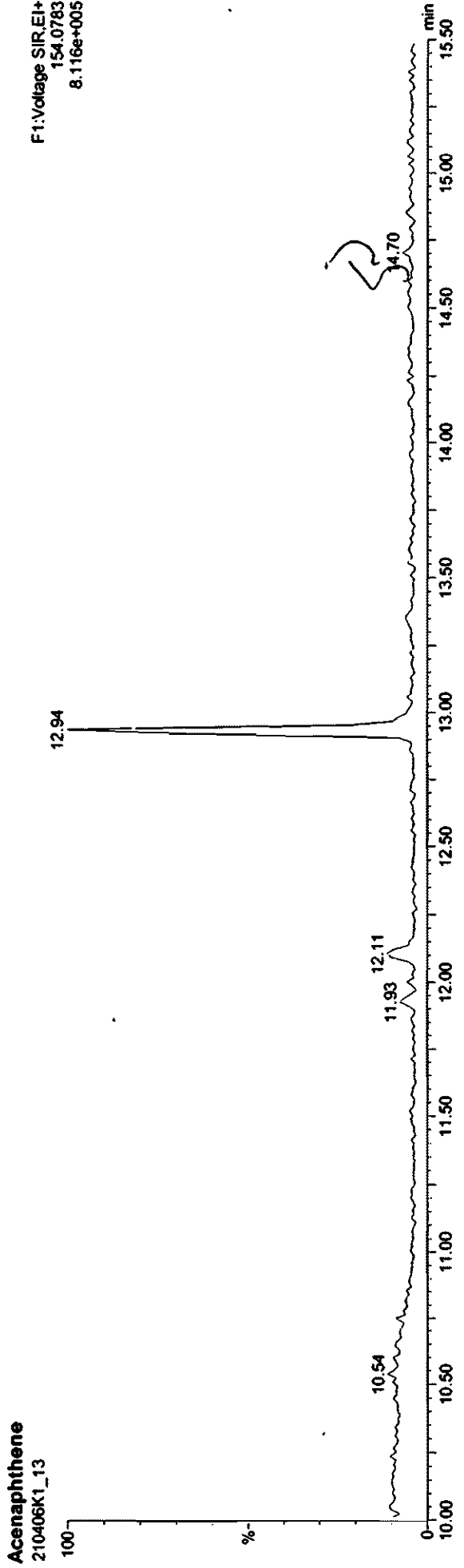
| Peak # | RT | Area | Height | Width | FWHM | Height | Area | Height | Area | Height | Area | Height | Area | Height | Area | Height | Area | Height |
|--------|-------|-------|--------|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1 | 13.26 | 12500 | 12500 | 1.000 | 1.000 | 12500 | 12500 | 1.000 | 1.000 | 12500 | 12500 | 1.000 | 1.000 | 12500 | 12500 | 1.000 | 1.000 | 12500 |
| 2 | 13.37 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 |
| 3 | 13.42 | 8000 | 8000 | 1.000 | 1.000 | 8000 | 8000 | 1.000 | 1.000 | 8000 | 8000 | 1.000 | 1.000 | 8000 | 8000 | 1.000 | 1.000 | 8000 |
| 4 | 13.57 | 15000 | 15000 | 1.000 | 1.000 | 15000 | 15000 | 1.000 | 1.000 | 15000 | 15000 | 1.000 | 1.000 | 15000 | 15000 | 1.000 | 1.000 | 15000 |
| 5 | 14.81 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 |
| 6 | 14.85 | 12000 | 12000 | 1.000 | 1.000 | 12000 | 12000 | 1.000 | 1.000 | 12000 | 12000 | 1.000 | 1.000 | 12000 | 12000 | 1.000 | 1.000 | 12000 |
| 7 | 14.87 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 |
| 8 | 14.96 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 |
| 9 | 15.00 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 |
| 10 | 15.10 | 12000 | 12000 | 1.000 | 1.000 | 12000 | 12000 | 1.000 | 1.000 | 12000 | 12000 | 1.000 | 1.000 | 12000 | 12000 | 1.000 | 1.000 | 12000 |
| 11 | 15.32 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 |
| 12 | 15.52 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 |
| 13 | 15.73 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 |
| 14 | 15.82 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 | 11000 | 1.000 | 1.000 | 11000 |
| 15 | 15.98 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 | 10000 | 1.000 | 1.000 | 10000 |



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

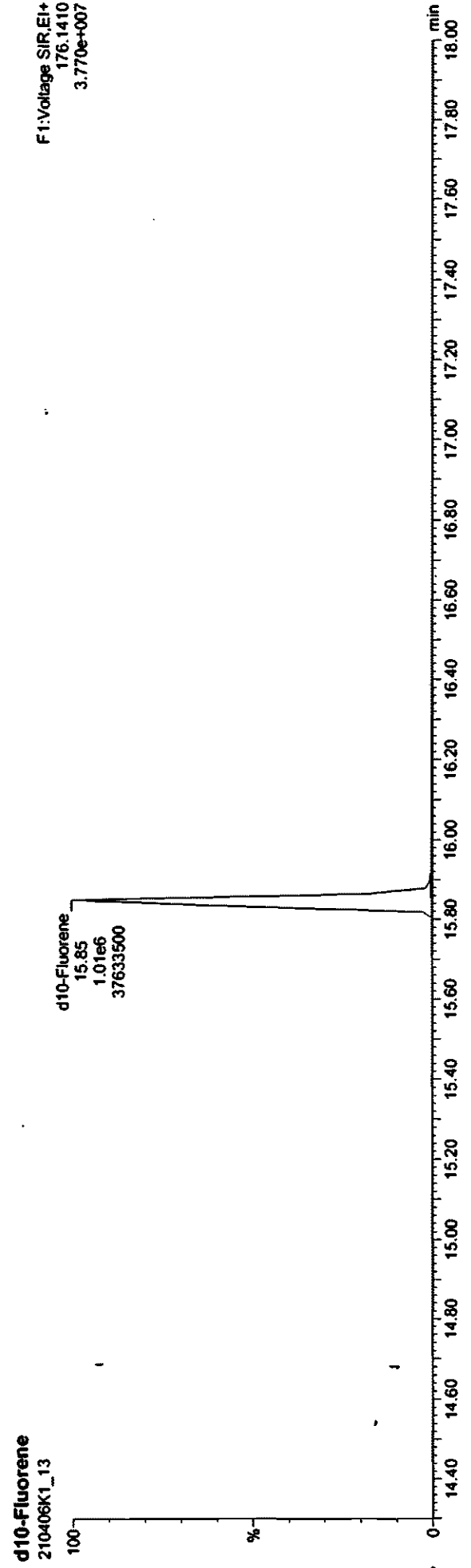
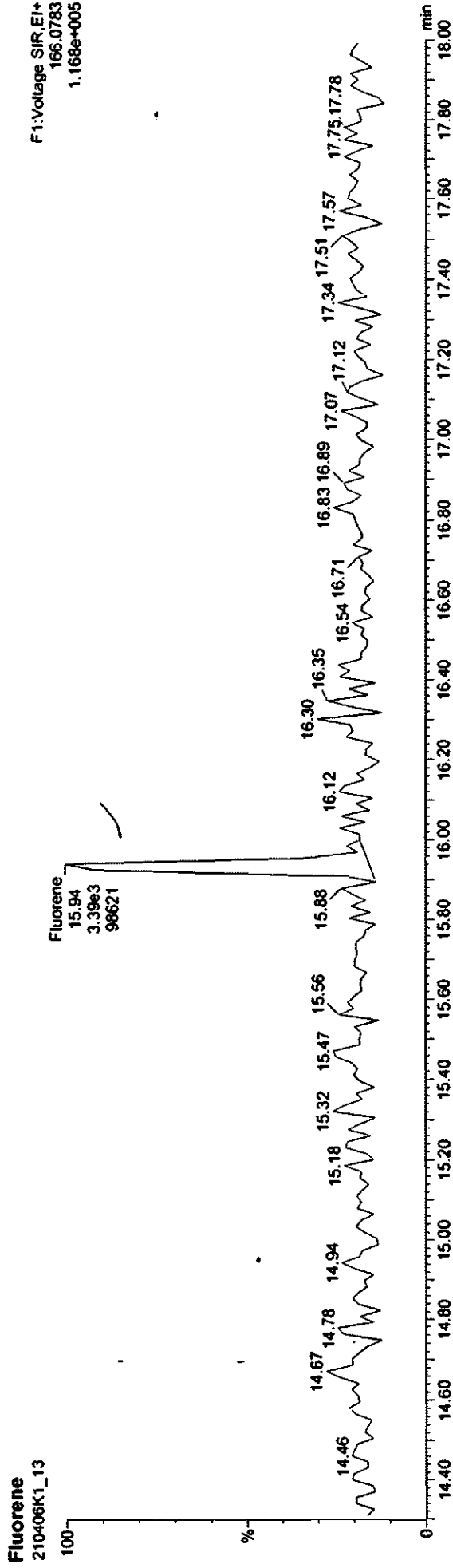


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

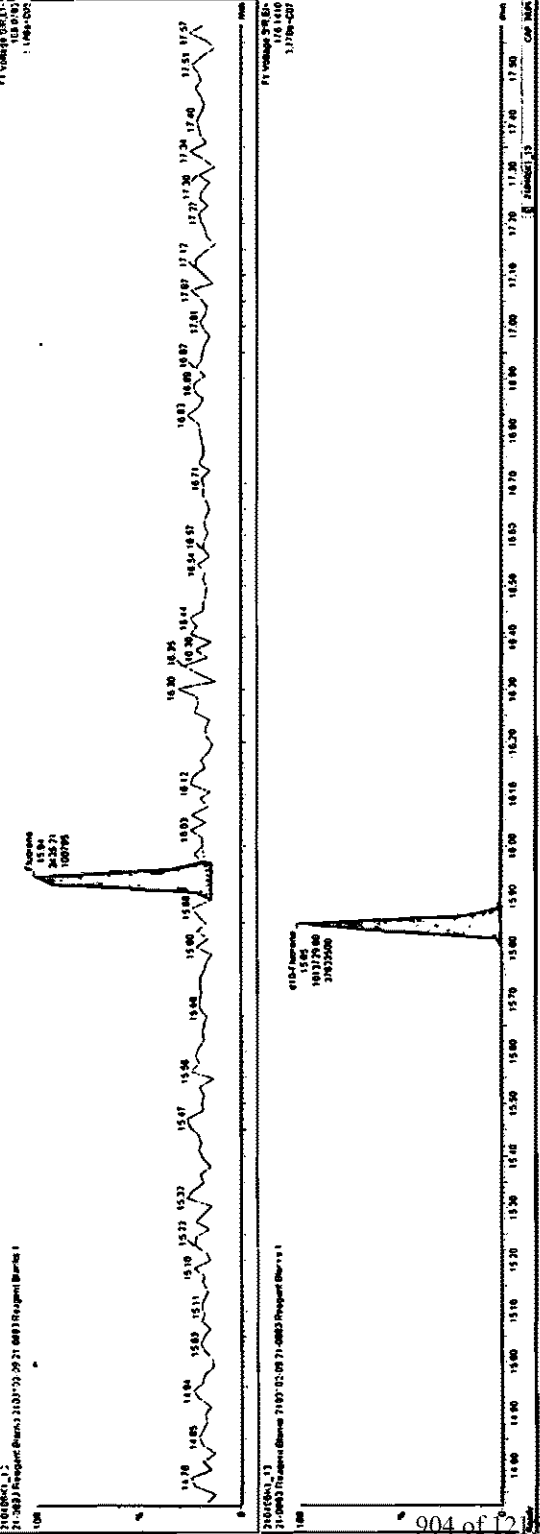
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks



Application: ...
Date: ...
Time: ...

| RT | Area | Height | Height | Area | Height | Area | Height | Area | Height |
|-------|------|--------|--------|-------|--------|-------|--------|-------|--------|
| 15.84 | 1584 | 15.84 | 15.84 | 15.84 | 15.84 | 15.84 | 15.84 | 15.84 | 15.84 |
| 15.86 | 1586 | 15.86 | 15.86 | 15.86 | 15.86 | 15.86 | 15.86 | 15.86 | 15.86 |
| 15.88 | 1588 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 |



Dataset: Untitled

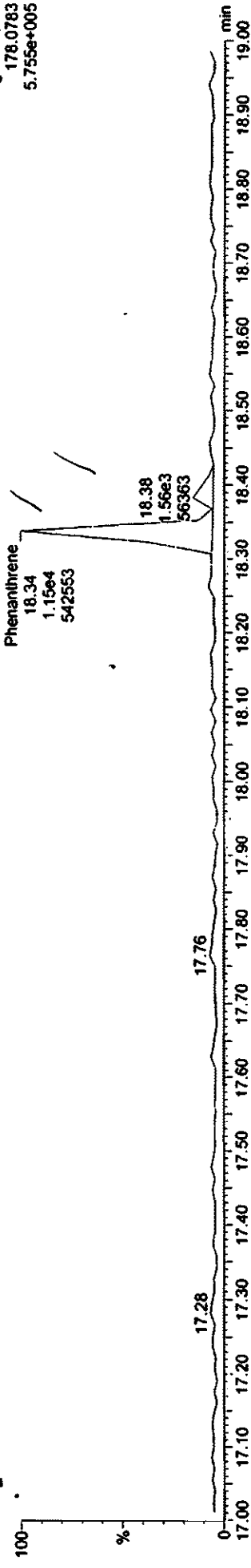
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

Phenanthrene; Anthracene

210406K1_13

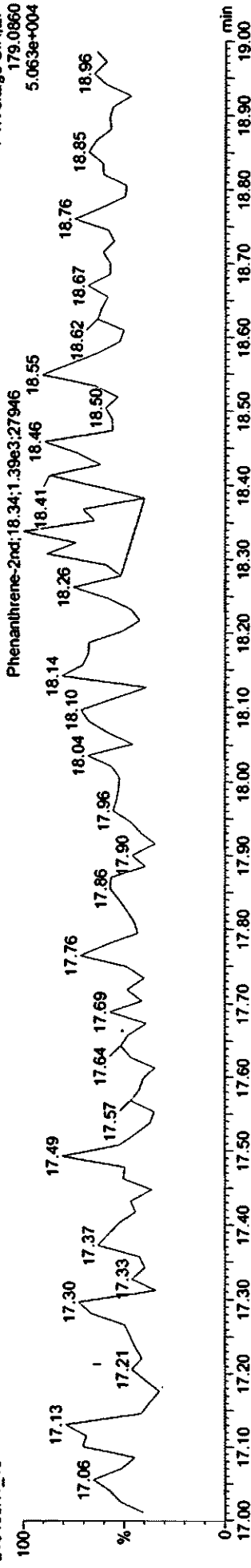
F1:Voltage SIR.EI+
178.0783
5.755e+005



Phenanthrene-2nd

210406K1_13

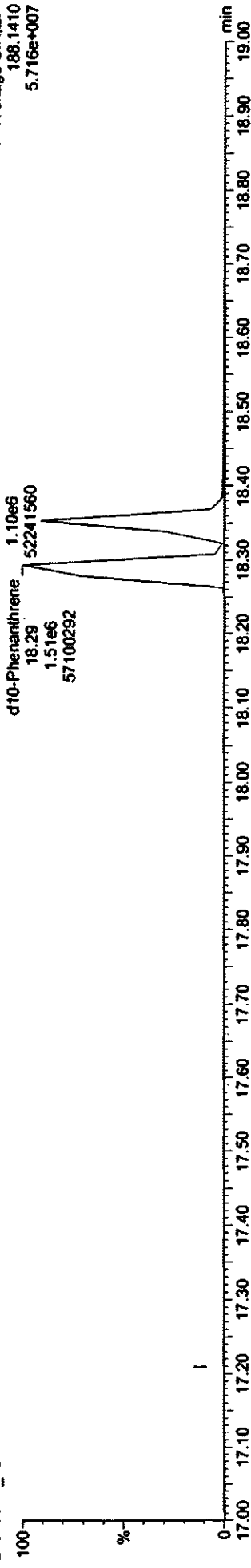
F1:Voltage SIR.EI+
179.0860
5.063e+004

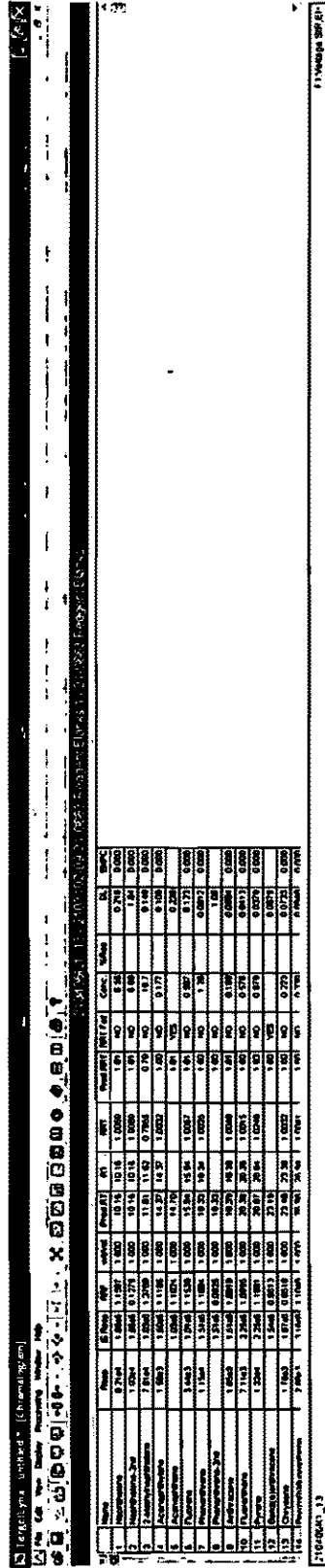


d10-Phenanthrene; d10-Anthracene (AS)

210406K1_13

F1:Voltage SIR.EI+
188.1410
5.716e+007





| Peak | Retention Time (min) | Area | Height | Width | Asymmetry | Tailing Factor | Resolution | Signal | Gain | Offset | Integration | Integration | Integration | Integration | Integration | Integration | Integration | Integration | Integration | Integration |
|------|----------------------|-------|--------|-------|-----------|----------------|------------|--------|------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1 | 17.35 | 1500 | 100 | 0.10 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 17.45 | 2000 | 150 | 0.15 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 17.55 | 3000 | 200 | 0.20 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 17.65 | 4000 | 300 | 0.30 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5 | 17.75 | 5000 | 400 | 0.40 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6 | 17.85 | 6000 | 500 | 0.50 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7 | 17.95 | 7000 | 600 | 0.60 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 18.05 | 8000 | 700 | 0.70 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 18.15 | 9000 | 800 | 0.80 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 18.25 | 15000 | 1000 | 1.00 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11 | 18.35 | 1000 | 100 | 0.10 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 12 | 18.45 | 2000 | 200 | 0.20 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 13 | 18.55 | 3000 | 300 | 0.30 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 14 | 18.65 | 4000 | 400 | 0.40 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 15 | 18.75 | 5000 | 500 | 0.50 | 1.05 | 1.05 | 1.00 | 1000 | 1.00 | 0.00 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

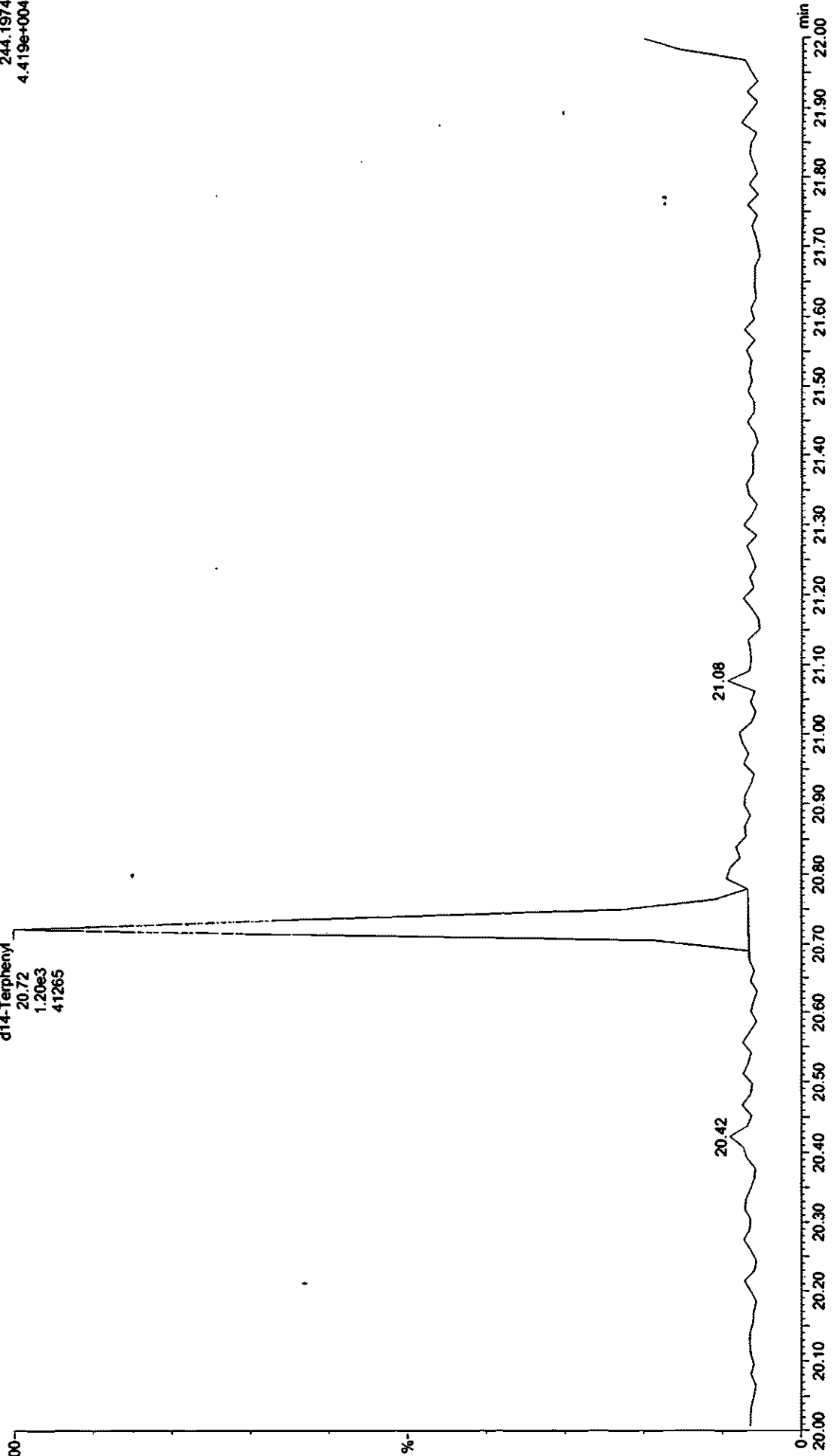
Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

d14-Terphenyl (PS)

210406K1_13

d14-Terphenyl
20.72
1.20e3
41265

F2:Voltage SIR.EI+
244.1974
4.419e+004

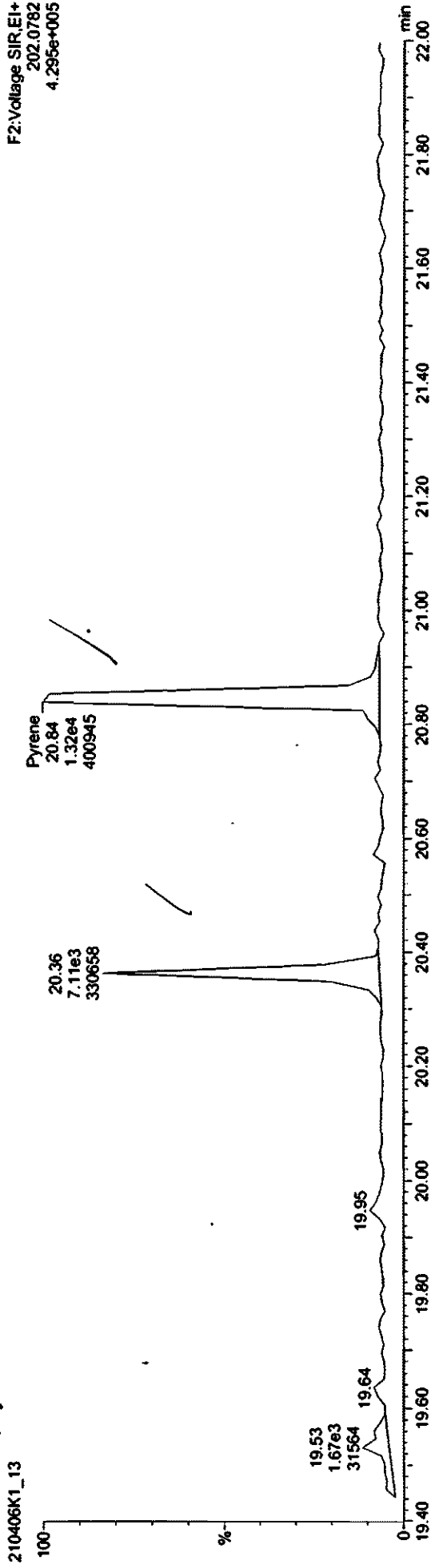


Dataset: Untitled

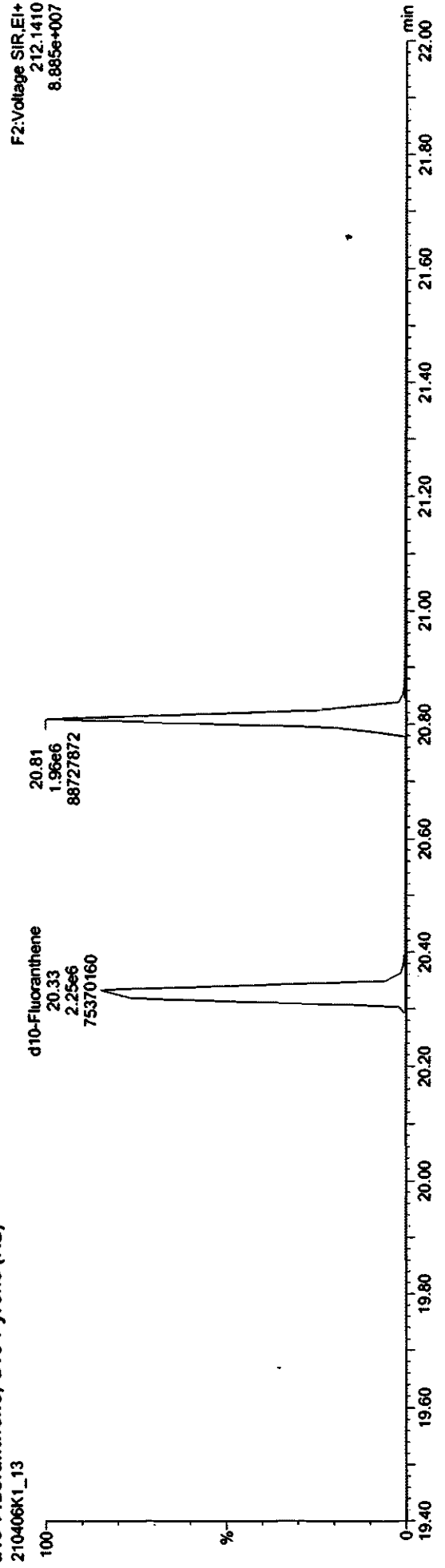
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Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

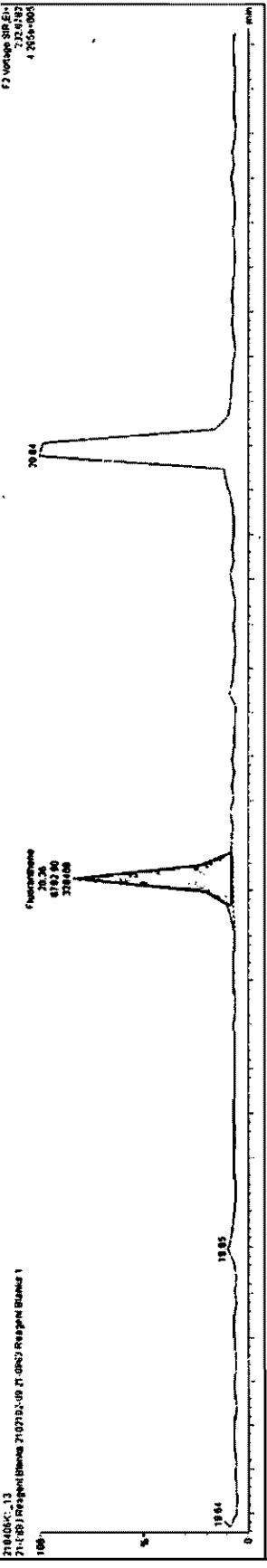
Fluoranthene; Pyrene



d10-Fluoranthene; d10-Pyrene (RS)



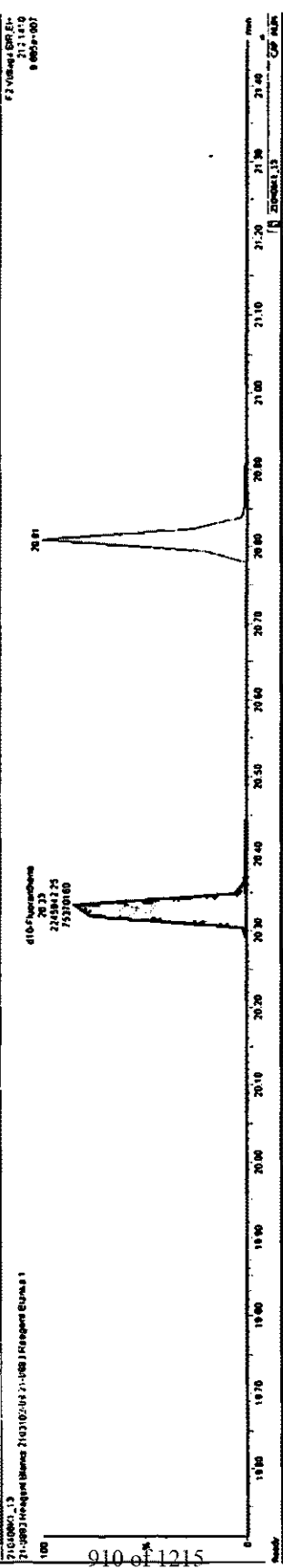
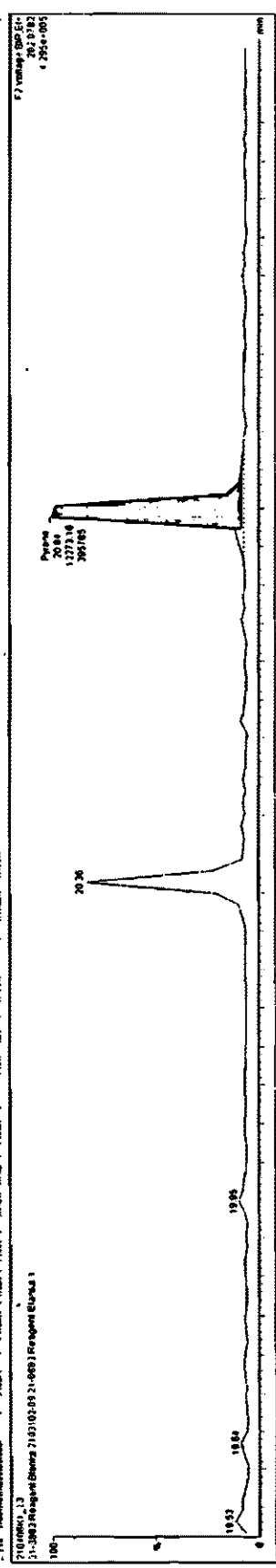
| Peak # | Retention Time (min) | Area | Height | Width | Conc. (%) | Ident. |
|--------|----------------------|--------|--------|--------|-----------|--------|
| 1 | 19.84 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 2 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 3 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 4 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 5 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 6 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 7 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 8 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 9 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 10 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 11 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 12 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 13 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 14 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 15 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 16 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 17 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 18 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 19 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 20 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |



| Peak # | Retention Time (min) | Area | Height | Width | Conc. (%) | Ident. |
|--------|----------------------|--------|--------|--------|-----------|--------|
| 1 | 19.84 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 2 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 3 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 4 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 5 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 6 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 7 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 8 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 9 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 10 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 11 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 12 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 13 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 14 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 15 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 16 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 17 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 18 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 19 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |
| 20 | 20.81 | 1.85E5 | 1.15E7 | 1.00E0 | 1.00 | NO |

21-1010001_13 21-1002 Integrated Blends 2103102:04 21-1003 Integrated Blends 2103102:13

| RT | Area | Height | Width | Area% | Height% | Width% | Area% | Height% | Width% |
|-------|------------|----------|-------|-------|---------|--------|-------|---------|--------|
| 19.92 | 12773.16 | 395165 | 1.00 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| 20.36 | 2245841.25 | 75320000 | 1.00 | 19.35 | 19.35 | 19.35 | 19.35 | 19.35 | 19.35 |
| 20.81 | 12773.16 | 395165 | 1.00 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |



Dataset: Untitled

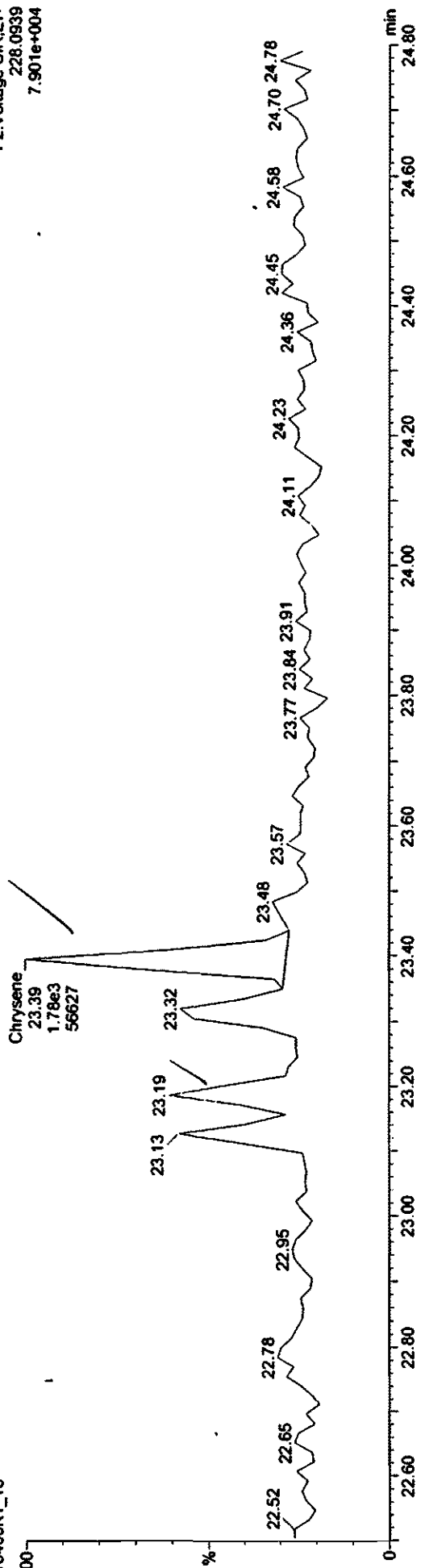
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

Benz(a)Anthracene-Chrysene

210406K1_13

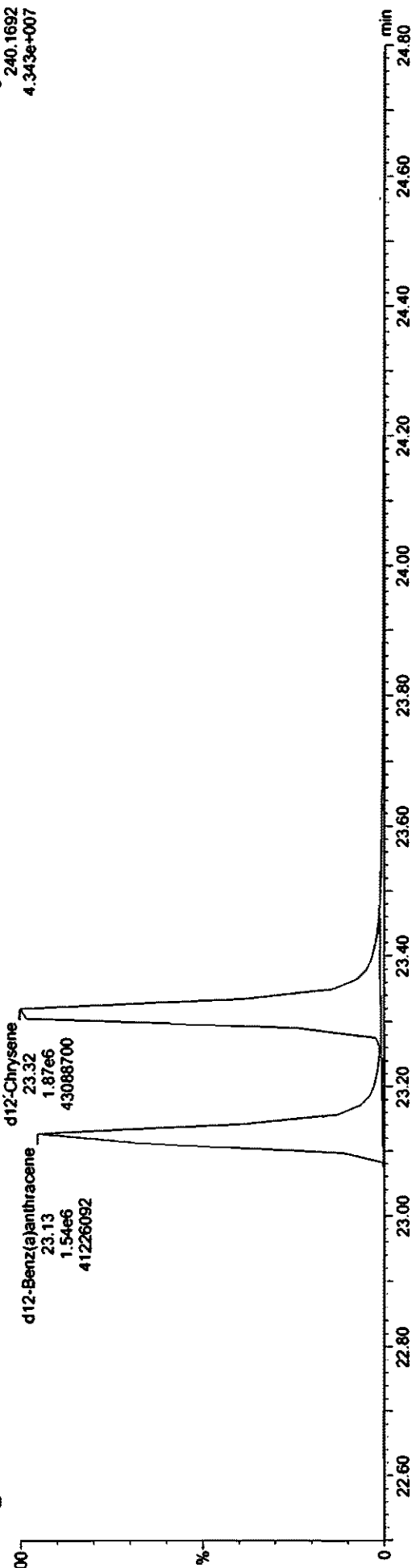
F2:Voltage SIR.EI+
228.0939
7.901e+004



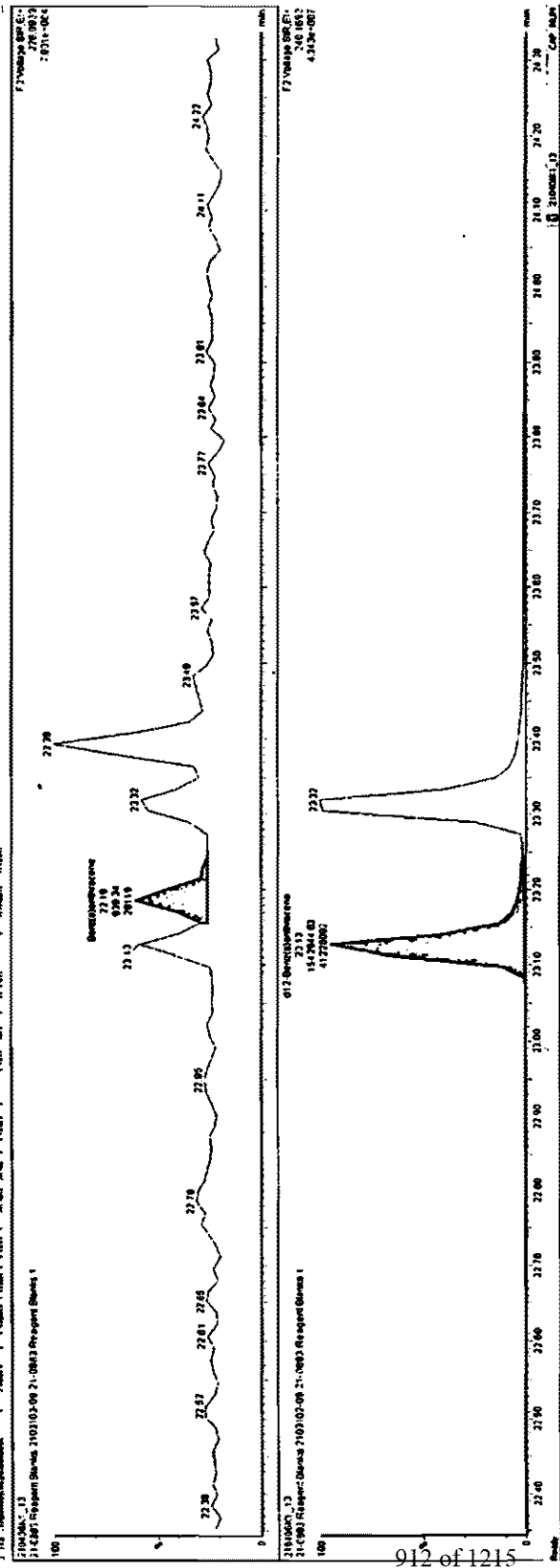
Benz(a)Anthracene-Chrysene-Iso

210406K1_13

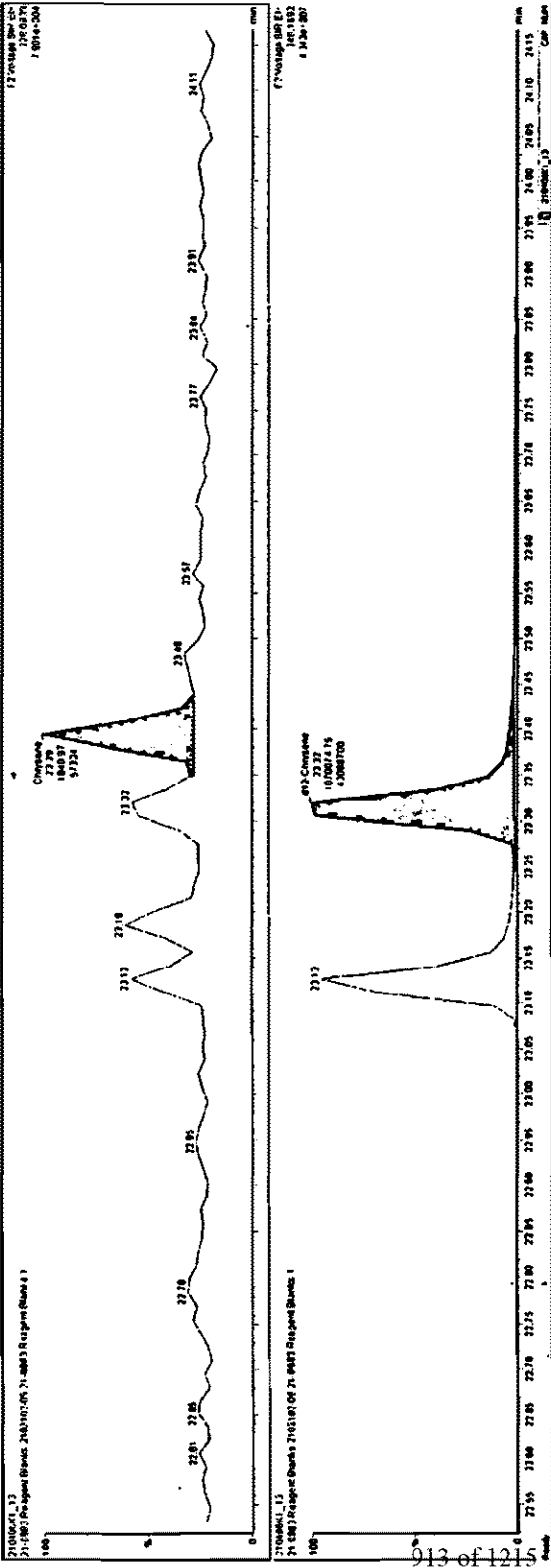
F2:Voltage SIR.EI+
240.1692
4.343e+007



| Peak # | Retention Time (min) | Area | Height | Width | Asymmetry | Resolution | Integration | Signal-to-Noise | Peak ID |
|--------|----------------------|------|--------|-------|-----------|------------|-------------|-----------------|---------|
| 1 | 22.88 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.88 |
| 2 | 22.93 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.93 |
| 3 | 22.94 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.94 |
| 4 | 22.95 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.95 |
| 5 | 22.96 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.96 |
| 6 | 22.97 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.97 |
| 7 | 22.98 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.98 |
| 8 | 22.99 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 22.99 |
| 9 | 23.00 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.00 |
| 10 | 23.01 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.01 |
| 11 | 23.02 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.02 |
| 12 | 23.03 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.03 |
| 13 | 23.04 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.04 |
| 14 | 23.05 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.05 |
| 15 | 23.06 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.06 |
| 16 | 23.07 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.07 |
| 17 | 23.08 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.08 |
| 18 | 23.09 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.09 |
| 19 | 23.10 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.10 |
| 20 | 23.11 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.11 |
| 21 | 23.12 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.12 |
| 22 | 23.13 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.13 |
| 23 | 23.14 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.14 |
| 24 | 23.15 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.15 |
| 25 | 23.16 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.16 |
| 26 | 23.17 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.17 |
| 27 | 23.18 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.18 |
| 28 | 23.19 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.19 |
| 29 | 23.20 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.20 |
| 30 | 23.21 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.21 |
| 31 | 23.22 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.22 |
| 32 | 23.23 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.23 |
| 33 | 23.24 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.24 |
| 34 | 23.25 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.25 |
| 35 | 23.26 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.26 |
| 36 | 23.27 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.27 |
| 37 | 23.28 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.28 |
| 38 | 23.29 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.29 |
| 39 | 23.30 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.30 |
| 40 | 23.31 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.31 |
| 41 | 23.32 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.32 |
| 42 | 23.33 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.33 |
| 43 | 23.34 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.34 |
| 44 | 23.35 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.35 |
| 45 | 23.36 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.36 |
| 46 | 23.37 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.37 |
| 47 | 23.38 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.38 |
| 48 | 23.39 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.39 |
| 49 | 23.40 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.40 |
| 50 | 23.41 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.41 |
| 51 | 23.42 | 1824 | 1.17 | 0.22 | 1.00 | 1.00 | 1.00 | 1.00 | 23.42 |



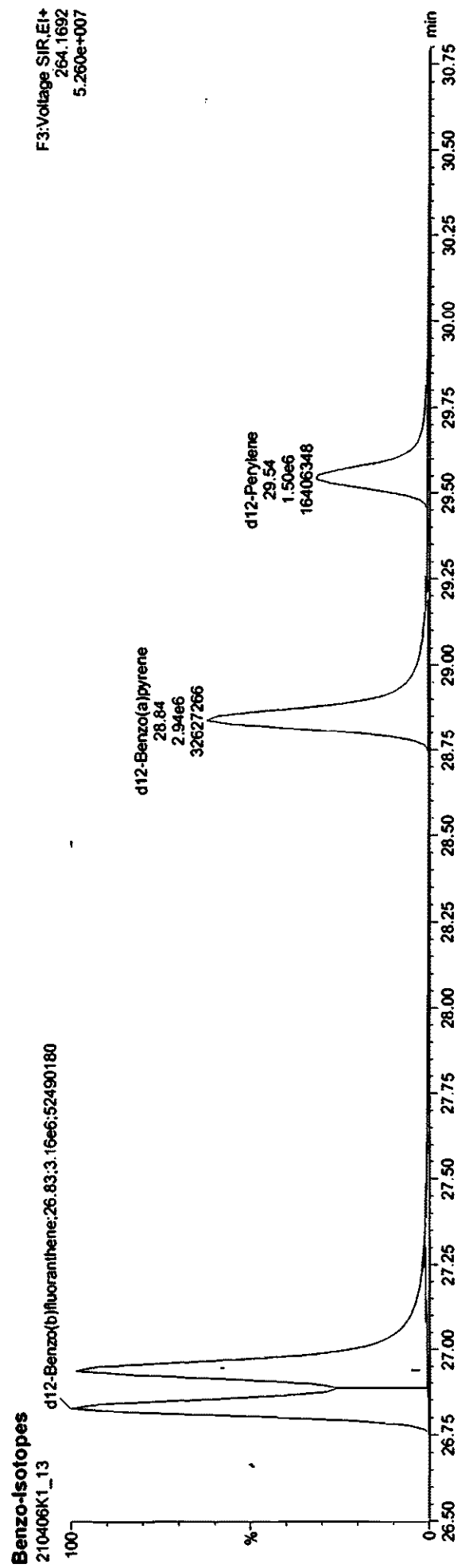
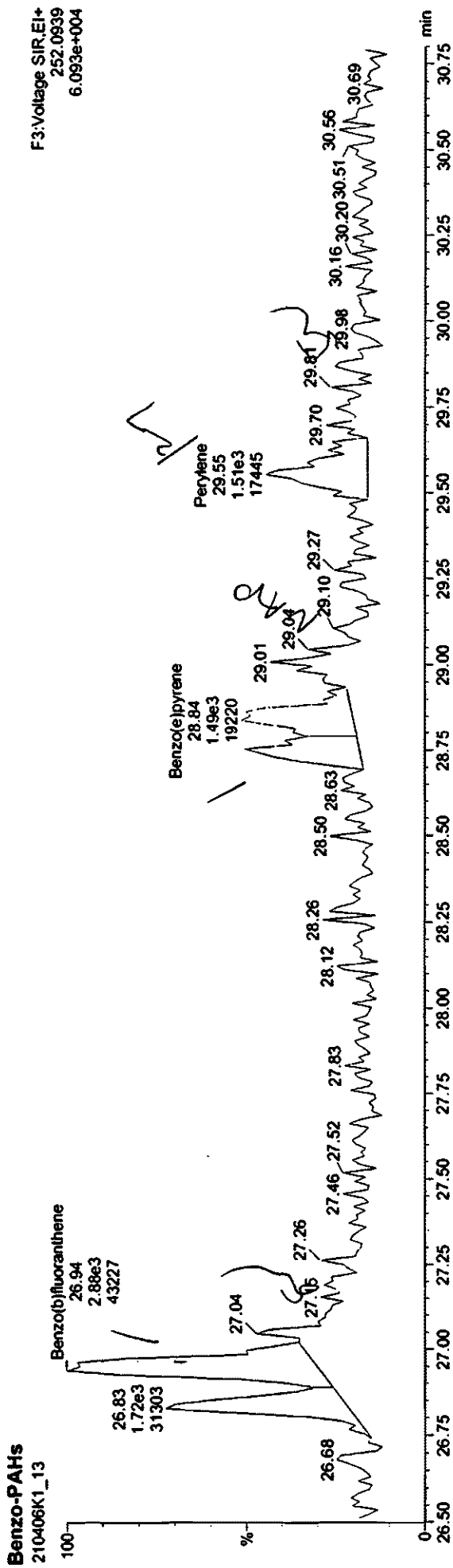
| Band | RT | Area | Height | Width | SNR | Area% | Area% |
|------|-------|----------|----------|----------|----------|-------|-------|
| 1 | 21.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 2 | 22.15 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 3 | 22.45 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 4 | 22.75 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 5 | 23.05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 6 | 23.35 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 7 | 23.65 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 8 | 23.95 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 9 | 24.25 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 10 | 24.55 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 11 | 24.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 12 | 25.15 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 13 | 25.45 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 14 | 25.75 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 15 | 26.05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 16 | 26.35 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 17 | 26.65 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 18 | 26.95 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 19 | 27.25 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 20 | 27.55 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 21 | 27.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 22 | 28.15 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 23 | 28.45 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 24 | 28.75 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 25 | 29.05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 26 | 29.35 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 27 | 29.65 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 28 | 29.95 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 29 | 30.25 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 30 | 30.55 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 31 | 30.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 32 | 31.15 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 33 | 31.45 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 34 | 31.75 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 35 | 32.05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 36 | 32.35 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 37 | 32.65 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 38 | 32.95 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 39 | 33.25 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 40 | 33.55 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 41 | 33.85 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 42 | 34.15 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 43 | 34.45 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 44 | 34.75 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 45 | 35.05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 46 | 35.35 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 47 | 35.65 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 48 | 35.95 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 49 | 36.25 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |
| 50 | 36.55 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 1.00E+05 | 0.25 | 0.25 |



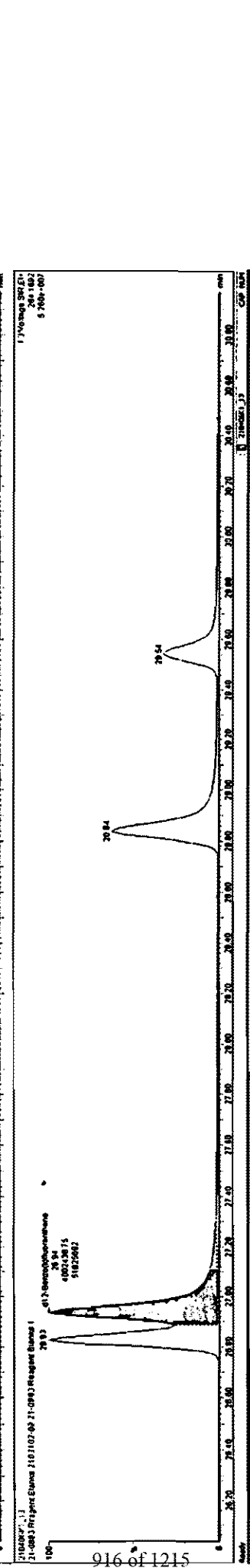
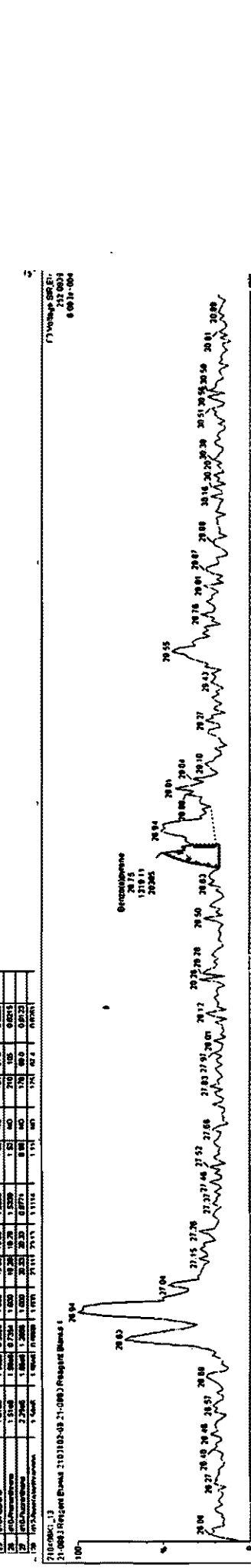
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Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks



| Peak | Retention Time (min) | Area | Height | Width | Resolution | Integration | Signal | Baseline | Offset | Gain | Filter | Scan | Height | Area | Height | Width | Resolution | Integration | Signal | Baseline | Offset | Gain | Filter | Scan |
|------|----------------------|-------|--------|-------|------------|-------------|--------|----------|--------|-------|--------|-------|--------|------|--------|-------|------------|-------------|--------|----------|--------|-------|--------|------|
| 16 | 28.83 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 28.83 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 28.83 | |
| 17 | 29.84 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 29.84 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 29.84 | |
| 18 | 30.85 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 30.85 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 30.85 | |
| 19 | 31.86 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 31.86 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 31.86 | |
| 20 | 32.87 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 32.87 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 32.87 | |
| 21 | 33.88 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 33.88 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 33.88 | |
| 22 | 34.89 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 34.89 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 34.89 | |
| 23 | 35.90 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 35.90 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 35.90 | |
| 24 | 36.91 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 36.91 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 36.91 | |
| 25 | 37.92 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 37.92 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 37.92 | |
| 26 | 38.93 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 38.93 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 38.93 | |
| 27 | 39.94 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 39.94 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 39.94 | |
| 28 | 40.95 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 40.95 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 40.95 | |
| 29 | 41.96 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 41.96 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 41.96 | |
| 30 | 42.97 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 42.97 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 42.97 | |
| 31 | 43.98 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 43.98 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 43.98 | |
| 32 | 44.99 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 44.99 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 44.99 | |
| 33 | 45.00 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 45.00 | 10000 | 1000 | 20.00 | 1.00 | YES | 0.100 | 0.100 | 0.100 | 0.100 | 0.100 | 45.00 | |

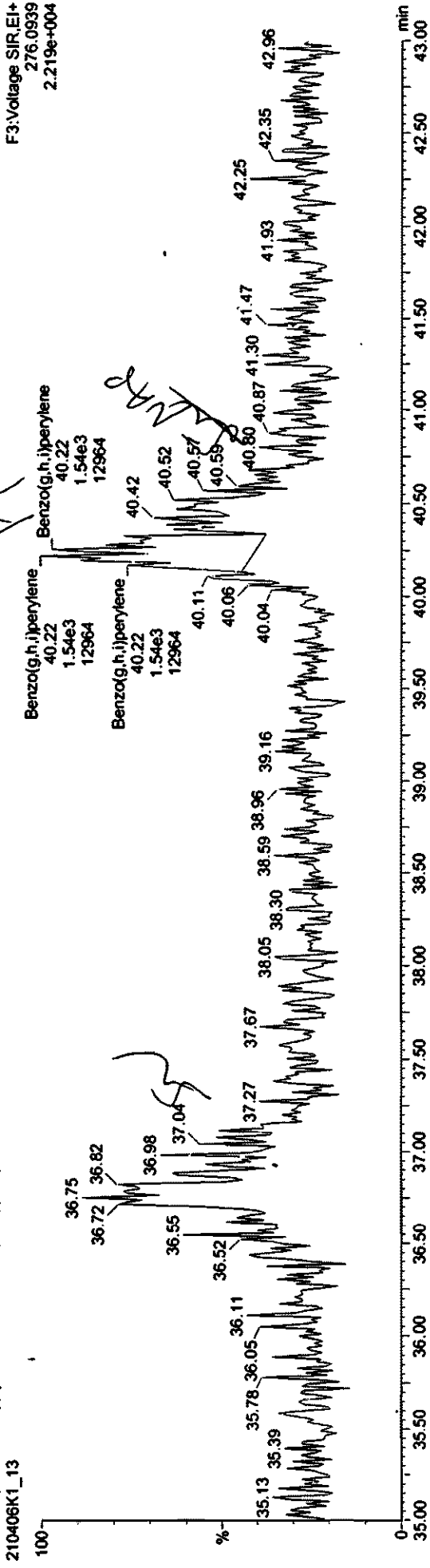


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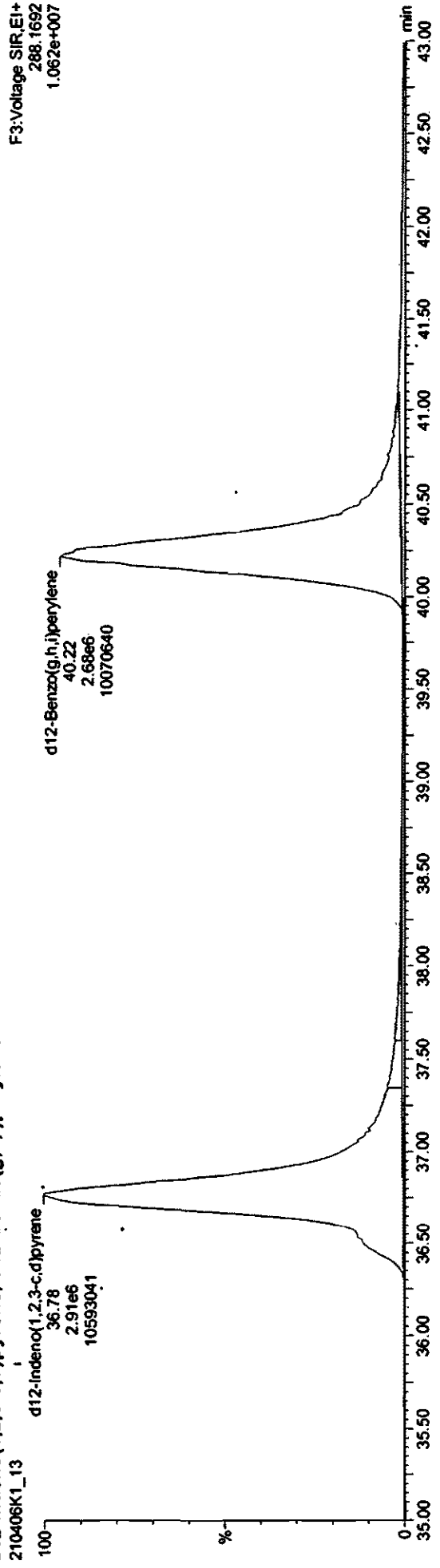
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

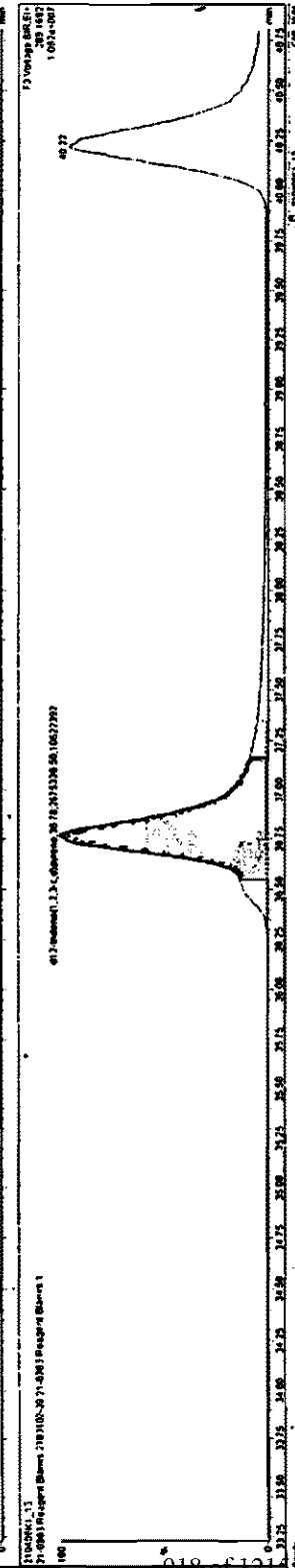
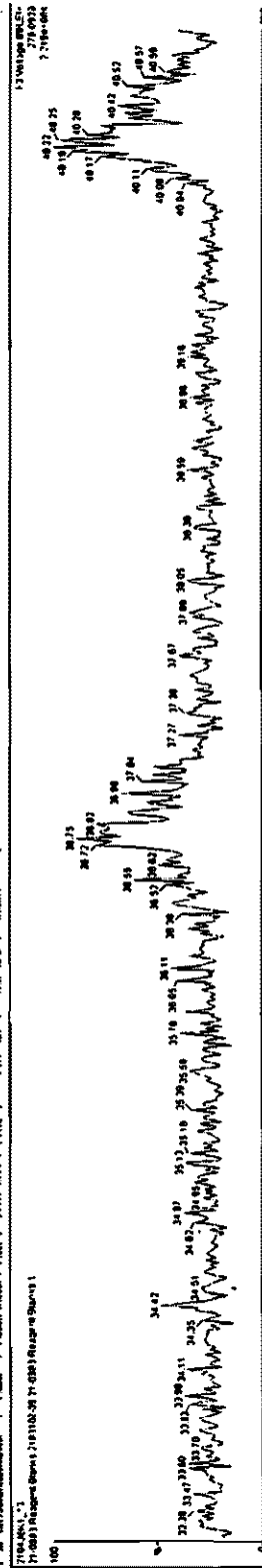
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene



| Peak # | Retention Time (min) | Area | Height | Width | Resolution | Integration | Signal | Baseline | Area % |
|--------|----------------------|--------|--------|-------|------------|-------------|--------|----------|--------|
| 1 | 3.25 | 1000 | 1000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.15 |
| 2 | 3.50 | 2000 | 2000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.30 |
| 3 | 3.75 | 3000 | 3000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.45 |
| 4 | 4.00 | 4000 | 4000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.60 |
| 5 | 4.25 | 5000 | 5000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.75 |
| 6 | 4.50 | 6000 | 6000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.90 |
| 7 | 4.75 | 7000 | 7000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.05 |
| 8 | 5.00 | 8000 | 8000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.20 |
| 9 | 5.25 | 9000 | 9000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.35 |
| 10 | 5.50 | 10000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.50 |
| 11 | 5.75 | 11000 | 11000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.65 |
| 12 | 6.00 | 12000 | 12000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.80 |
| 13 | 6.25 | 13000 | 13000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.95 |
| 14 | 6.50 | 14000 | 14000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.10 |
| 15 | 6.75 | 15000 | 15000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.25 |
| 16 | 7.00 | 16000 | 16000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.40 |
| 17 | 7.25 | 17000 | 17000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.55 |
| 18 | 7.50 | 18000 | 18000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.70 |
| 19 | 7.75 | 19000 | 19000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.85 |
| 20 | 8.00 | 20000 | 20000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.00 |
| 21 | 8.25 | 21000 | 21000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.15 |
| 22 | 8.50 | 22000 | 22000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.30 |
| 23 | 8.75 | 23000 | 23000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.45 |
| 24 | 9.00 | 24000 | 24000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.60 |
| 25 | 9.25 | 25000 | 25000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.75 |
| 26 | 9.50 | 26000 | 26000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.90 |
| 27 | 9.75 | 27000 | 27000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 4.05 |
| 28 | 10.00 | 28000 | 28000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 4.20 |
| 29 | 10.25 | 29000 | 29000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 4.35 |
| 30 | 10.50 | 30000 | 30000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 4.50 |
| 31 | 10.75 | 31000 | 31000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 4.65 |
| 32 | 11.00 | 32000 | 32000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 4.80 |
| 33 | 11.25 | 33000 | 33000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 4.95 |
| 34 | 11.50 | 34000 | 34000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.10 |
| 35 | 11.75 | 35000 | 35000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.25 |
| 36 | 12.00 | 36000 | 36000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.40 |
| 37 | 12.25 | 37000 | 37000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.55 |
| 38 | 12.50 | 38000 | 38000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.70 |
| 39 | 12.75 | 39000 | 39000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 5.85 |
| 40 | 13.00 | 40000 | 40000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 6.00 |
| 41 | 13.25 | 41000 | 41000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 6.15 |
| 42 | 13.50 | 42000 | 42000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 6.30 |
| 43 | 13.75 | 43000 | 43000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 6.45 |
| 44 | 14.00 | 44000 | 44000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 6.60 |
| 45 | 14.25 | 45000 | 45000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 6.75 |
| 46 | 14.50 | 46000 | 46000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 6.90 |
| 47 | 14.75 | 47000 | 47000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 7.05 |
| 48 | 15.00 | 48000 | 48000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 7.20 |
| 49 | 15.25 | 49000 | 49000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 7.35 |
| 50 | 15.50 | 50000 | 50000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 7.50 |
| 51 | 15.75 | 51000 | 51000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 7.65 |
| 52 | 16.00 | 52000 | 52000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 7.80 |
| 53 | 16.25 | 53000 | 53000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 7.95 |
| 54 | 16.50 | 54000 | 54000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 8.10 |
| 55 | 16.75 | 55000 | 55000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 8.25 |
| 56 | 17.00 | 56000 | 56000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 8.40 |
| 57 | 17.25 | 57000 | 57000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 8.55 |
| 58 | 17.50 | 58000 | 58000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 8.70 |
| 59 | 17.75 | 59000 | 59000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 8.85 |
| 60 | 18.00 | 60000 | 60000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 9.00 |
| 61 | 18.25 | 61000 | 61000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 9.15 |
| 62 | 18.50 | 62000 | 62000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 9.30 |
| 63 | 18.75 | 63000 | 63000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 9.45 |
| 64 | 19.00 | 64000 | 64000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 9.60 |
| 65 | 19.25 | 65000 | 65000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 9.75 |
| 66 | 19.50 | 66000 | 66000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 9.90 |
| 67 | 19.75 | 67000 | 67000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.05 |
| 68 | 20.00 | 68000 | 68000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.20 |
| 69 | 20.25 | 69000 | 69000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.35 |
| 70 | 20.50 | 70000 | 70000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.50 |
| 71 | 20.75 | 71000 | 71000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.65 |
| 72 | 21.00 | 72000 | 72000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.80 |
| 73 | 21.25 | 73000 | 73000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 10.95 |
| 74 | 21.50 | 74000 | 74000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11.10 |
| 75 | 21.75 | 75000 | 75000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11.25 |
| 76 | 22.00 | 76000 | 76000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11.40 |
| 77 | 22.25 | 77000 | 77000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11.55 |
| 78 | 22.50 | 78000 | 78000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11.70 |
| 79 | 22.75 | 79000 | 79000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 11.85 |
| 80 | 23.00 | 80000 | 80000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 12.00 |
| 81 | 23.25 | 81000 | 81000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 12.15 |
| 82 | 23.50 | 82000 | 82000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 12.30 |
| 83 | 23.75 | 83000 | 83000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 12.45 |
| 84 | 24.00 | 84000 | 84000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 12.60 |
| 85 | 24.25 | 85000 | 85000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 12.75 |
| 86 | 24.50 | 86000 | 86000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 12.90 |
| 87 | 24.75 | 87000 | 87000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 13.05 |
| 88 | 25.00 | 88000 | 88000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 13.20 |
| 89 | 25.25 | 89000 | 89000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 13.35 |
| 90 | 25.50 | 90000 | 90000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 13.50 |
| 91 | 25.75 | 91000 | 91000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 13.65 |
| 92 | 26.00 | 92000 | 92000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 13.80 |
| 93 | 26.25 | 93000 | 93000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 13.95 |
| 94 | 26.50 | 94000 | 94000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 14.10 |
| 95 | 26.75 | 95000 | 95000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 14.25 |
| 96 | 27.00 | 96000 | 96000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 14.40 |
| 97 | 27.25 | 97000 | 97000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 14.55 |
| 98 | 27.50 | 98000 | 98000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 14.70 |
| 99 | 27.75 | 99000 | 99000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 14.85 |
| 100 | 28.00 | 100000 | 100000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 15.00 |



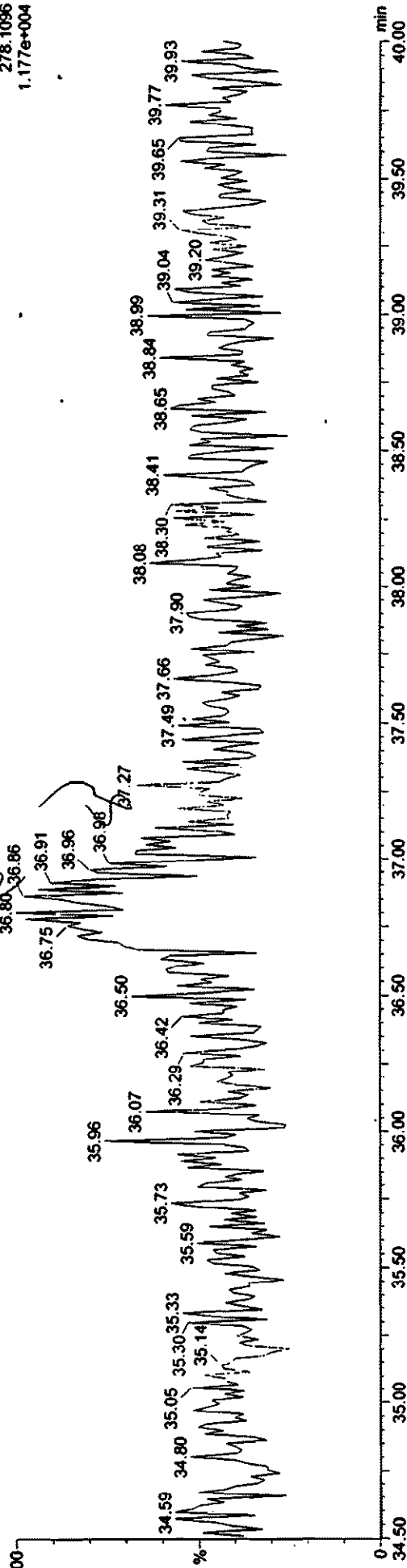
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_13, Date: 06-Apr-2021, Time: 20:36:51, ID: 2103102-09 21-0883 Reagent Blanks 1, Description: 21-0883 Reagent Blanks

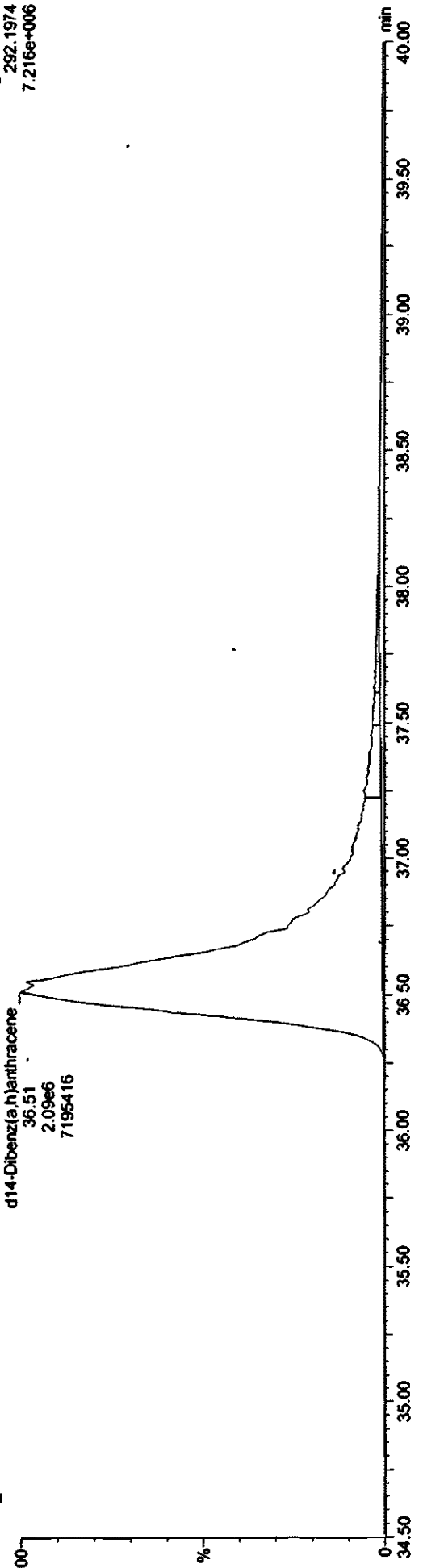
Dibenz(a,h)anthracene
210406K1_13

F3:Voltage SIR.EI+
278.1096
1.177e+004



d14-Dibenz(a,h)anthracene
210406K1_13

F3:Voltage SIR.EI+
292.1974
7.216e+006



AIR QC RAW DATA

Quality Control Form

Fill out form completely before handing in for review.

Category:

Equipment (Syringes/Glassware/Containers/Etc.) Analytical Method/SOP Materials (Solvent/Standards/Disposables) Other

Method: PFAS PCDD/F PCB PAH PEST Other: _____

QC No: HRMS-210315-03 Instr. RUN: Vg-11

LOT #: MKCL5522 ICAL: 4.1.2021

Reason for QC: XAD QC PAH

| # | Description | PASS | FAIL | Date/Initial |
|---|--------------------------|------|------|--------------|
| 1 | XAD PAH (HRMS-210315-03) | ✓ | | 4-6-2021 JZ |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Analysis: _____

| IS: | RS: | Final Vol. & Solvent (µL): |
|------------------------------------|-------------------------------------|----------------------------|
| <u>20H2503, 25ML</u> ^{V7} | <u>20H2506, 50ML</u> ^{V12} | <u>C6; 500ML</u> |

Procedure/Notes:

Start: 03/15/21 1330
 End: 03/16/21 0650
 1625 Extraction 16 hrs
 Spiked XAD w/ IS, sample was split 1:2
 proceed to cleanup procedure = fv.

Chemist Name, Date, Hours: RR, 03/15/21, 16 hrs

Analyst Name, Date, Hours: ZZ, 4-6-2021, 1 hr.

Reviewed By, Date: Chak Panik 04/09/2021

L: Archive/ ALL QC SCANNING/ Select Category/ Select Year
 Save as Method/Description/QC No.

Process Sheet
Workorder: 2103171

Prep Expiration: 2021-04-04
Client: Vista Analytical Laboratory

Workorder Due: 06-Apr-21 00:00
TAT: 21

Method: CARB 429 Full List
Matrix: Air
Client Matrix: Air

Prep Batch: B1C0141

Prep Data Entered: 03/18/21 PR
Date and Initials

Initial Sequence: SIC0068

| LabSampleID | Recon | ClientSampleID | Date Received | Location | Comments |
|-------------|--------------------------|------------------------------------|-----------------|----------|----------|
| 2103171-01 | <input type="checkbox"/> | HRMS-210315-03; Lot#MKCL5522 (XAD) | 15-Mar-21 17:16 | Consumed | |

Pre-Prep Check Out: NA
Pre-Prep Check In: NA

Prep Check Out: NA
Prep Check In: NA

Prep Reconciled Initials/Date: NA
Spike Reconciled Initials/Date: NA
VialBoxID: TREE

Batch: B1C0141

Matrix: Air

| LabNumber | WetWeight Initial (N/A) | % Solids (Extraction Solids) | DryWeight Initial (N/A) | Final (uL) | Extracted | Ext By | Spike | SpikeAmount (uL) | ClientMatrix | Analysis |
|------------|----------------------------|---------------------------------|----------------------------|---------------|-----------------|--------|-------|---------------------|--------------|--------------------|
| 2103171-01 | 1 | | | 500 | 15-Mar-21 17:38 | RR | | | Air | CARB 429 Full List |

PREPARATION BENCH SHEET

B1C0141

Matrix: Air

Method(s): CARB 429 Full List

Chemist: RR

Prep Date\Time: 15-Mar-21 17:38

Prepared using: HRMS - Soxhlet

| C | VISTA Sample ID | PUF/Trap Prep Date | XAD/PUF Lot# | IS/NS CHEM/WIT DATE | Impinger Extraction Date | AS CHEM/WIT DATE | SIGEL/ABSG / Florisil / CC CHEM/DATE (Circle one) | RS CHEM/WIT DATE |
|--------------------------|-----------------|--------------------|--------------|---------------------|--------------------------|------------------|---|------------------|
| <input type="checkbox"/> | 2103171-01 | 03/15/21 | | RR 03/15/21 | NA | NA | RR 03/18/21 | RR 03/18/21 |

1:2 > RR 03/18/21

| IS Name | NS Name | AS Name | RS Name | Cycle #1 | #2 | Split | Check Out: Chemist/Date: |
|-----------------|---------|---------|------------------|-----------------|------|-------|--------------------------|
| PCDD/F | PCDD/F | PCDD/F | PCDD/F | Start Date/Time | | | NA |
| PCB | PCB | PCB | PCB | 03/15/21 1330 | | 1:4 | NA |
| PAH | PAH | PAH | PAH | Stop Date/Time | | 1:2 | |
| PAH 014250325ML | | | PAH 0142506 50ML | Final Volume(s) | 50ML | | |

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume

Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-16.qld

Last Altered: Friday, April 02, 2021 08:55:17 Pacific Daylight Time
Printed: Friday, April 02, 2021 08:55:51 Pacific Daylight Time

42.27M
Crosby/2021

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)

| # | Name | Resp | IS Resp | RRF | wfvol | Pred.RT | RT | Pred.RRT | RRT | Check R... | Conc. | %Rec | DL |
|----|--------------------------|--------|---------|--------|-------|---------|-------|----------|-------|------------|--------|------|--------|
| 1 | Naphthalene | 1.29e4 | 1.35e6 | 1.16 | 1.000 | 10.17 | 10.18 | 1.006 | 1.006 | NO | 1.65 | | 0.331 |
| 2 | Naphthalene-2nd | | 1.35e6 | 0.128 | 1.000 | 10.17 | | 1.006 | | NO | | | 2.45 |
| 3 | 2-Methylnaphthalene | 2.01e3 | 7.76e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 0.377 | | 0.181 |
| 4 | Acenaphthylene | | 1.17e6 | 1.12 | 1.000 | 14.38 | | 1.003 | | YES | | | 0.167 |
| 5 | Acenaphthene | | 7.76e5 | 1.10 | 1.000 | 14.70 | | 1.006 | | YES | | | 0.251 |
| 6 | Fluorene | | 7.44e5 | 1.15 | 1.000 | 15.94 | | 1.006 | | YES | | | 0.213 |
| 7 | Phenanthrene | 3.55e3 | 9.60e5 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 0.621 | | 0.0964 |
| 8 | Phenanthrene-2nd | | 9.60e5 | 0.0925 | 1.000 | 18.33 | | 1.002 | | YES | | | 1.23 |
| 9 | Anthracene | | 9.60e5 | 1.09 | 1.000 | 18.39 | | 1.005 | | YES | | | 0.105 |
| 10 | Fluoranthene | 2.85e3 | 1.91e6 | 1.10 | 1.000 | 20.38 | 20.38 | 1.002 | 1.002 | NO | 0.272 | | 0.0419 |
| 11 | Pyrene | 3.81e3 | 1.91e6 | 1.20 | 1.000 | 20.87 | 20.87 | 1.026 | 1.026 | NO | 0.333 | | 0.0384 |
| 12 | Benz(a)anthracene | | 1.08e6 | 0.961 | 1.000 | 23.20 | | 1.003 | | NO | | | 0.103 |
| 13 | Chrysene | 4.95e2 | 1.25e6 | 0.852 | 1.000 | 23.41 | 23.41 | 1.003 | 1.003 | NO | 0.0926 | | 0.101 |
| 14 | Benzo(b)fluoranthene | 5.17e3 | 2.27e6 | 1.10 | 1.000 | 27.03 | 27.02 | 1.005 | 1.005 | NO | 0.826 | | 0.150 |
| 15 | Benzo(k)fluoranthene | | 2.99e6 | 1.04 | 1.000 | 27.12 | | 1.004 | | YES | | | 0.154 |
| 16 | Benzo(e)pyrene | | 2.99e6 | 0.911 | 1.000 | 28.82 | | 1.067 | | NO | | | 0.176 |
| 17 | Benzo(a)pyrene | | 2.33e6 | 1.02 | 1.000 | 29.07 | | 1.006 | | YES | | | 0.221 |
| 18 | Perylene | | 2.33e6 | 0.987 | 1.000 | 29.81 | | 1.031 | | YES | | | 0.227 |
| 19 | Indeno(1,2,3-c,d)pyrene | | 1.84e6 | 0.915 | 1.000 | 36.81 | | 1.007 | | YES | | | 0.370 |
| 20 | Benzo(g,h,i)perylene | | 1.77e6 | 0.940 | 1.000 | 40.19 | | 1.009 | | YES | | | 0.372 |
| 21 | Dibenz(a,h)anthracene | | 1.36e6 | 0.948 | 1.000 | 36.73 | | 1.011 | | YES | | | 0.395 |
| 22 | db-Naphthalene | 1.35e6 | 1.77e6 | 1.20 | 1.000 | 10.12 | 10.12 | 0.848 | 0.848 | NO | 126 | 63.1 | 0.0199 |
| 23 | db-Acenaphthylene | 1.17e6 | 1.77e6 | 0.905 | 1.000 | 14.33 | 14.34 | 1.201 | 1.202 | NO | 146 | 73.0 | 0.0244 |
| 24 | d10-Acenaphthene | 7.76e5 | 1.77e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 147 | 73.6 | 0.0195 |
| 25 | d10-Fluorene | 7.44e5 | 1.77e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 149 | 74.5 | 0.0184 |
| 26 | d10-Phenanthrene | 9.60e5 | 1.77e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 147 | 73.6 | 0.0148 |
| 27 | d10-Fluoranthene | 1.91e6 | 1.77e6 | 1.29 | 1.000 | 20.34 | 20.33 | 0.977 | 0.976 | NO | 167 | 83.7 | 0.0112 |
| 28 | d12-Benz(e)anthracene | 1.08e6 | 1.77e6 | 0.900 | 1.000 | 23.12 | 23.14 | 1.110 | 1.111 | NO | 135 | 67.6 | 0.0272 |
| 29 | d12-Chrysene | 1.25e6 | 1.77e6 | 1.02 | 1.000 | 23.32 | 23.33 | 1.120 | 1.121 | NO | 139 | 69.3 | 0.0240 |
| 30 | d12-Benzo(b)fluoranthene | 2.27e6 | 1.20e6 | 1.18 | 1.000 | 26.86 | 26.90 | 0.907 | 0.909 | NO | 320 | 80.0 | 0.197 |

Quantify Sample Summary Report
 Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-16.qld

Last Altered: Friday, April 02, 2021 08:55:17 Pacific Daylight Time

Printed: Friday, April 02, 2021 08:55:51 Pacific Daylight Time

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKGL5522 (XAD) 1,

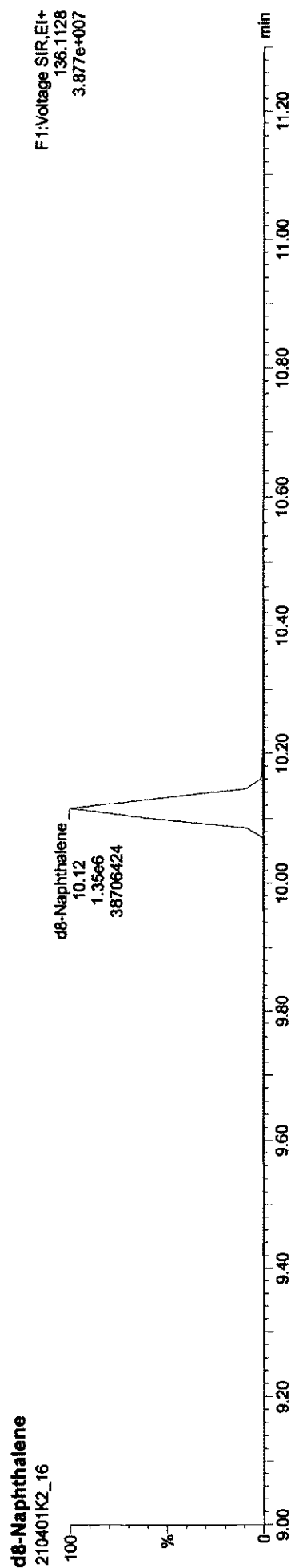
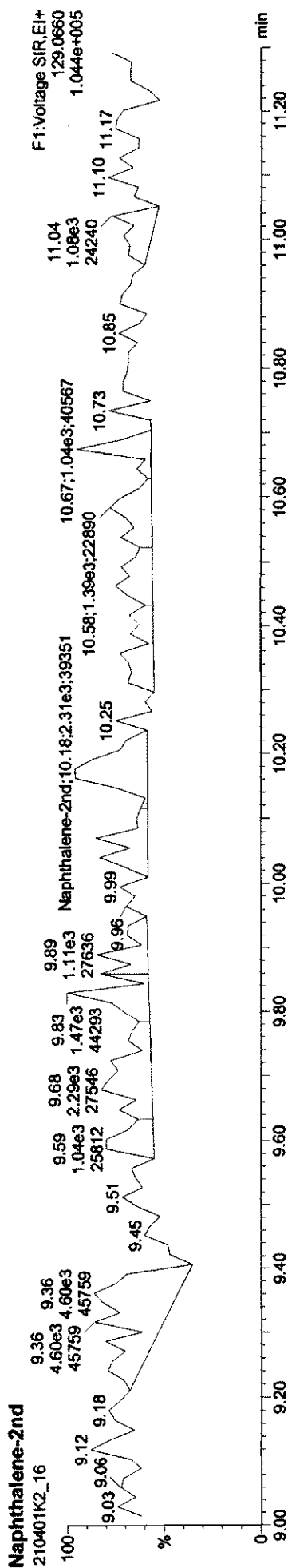
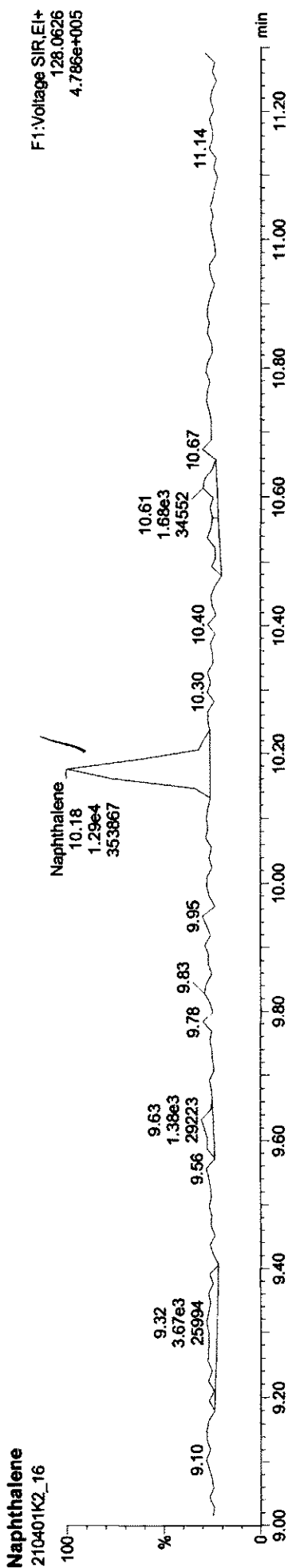
Description: HRMS-210315-03; Lot#MKGL5522 (XAD)

| # | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R... | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|------------|------|------|--------|
| 31 | d12-Benzo(k)fluoranthene | 2.99e6 | 1.20e6 | 1.50 | 1.000 | 26.97 | 27.01 | 0.911 | 0.912 | NO | 332 | 83.0 | 0.155 |
| 32 | d12-Benzo(a)pyrene | 2.33e6 | 1.20e6 | 1.24 | 1.000 | 28.86 | 28.90 | 0.975 | 0.976 | NO | 314 | 78.5 | 0.188 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 1.84e6 | 1.20e6 | 1.02 | 1.000 | 36.91 | 36.56 | 1.247 | 1.235 | YES | 301 | 75.3 | 0.274 |
| 34 | d12-Benzo(g,h,i)perylene | 1.77e6 | 1.20e6 | 1.00 | 1.000 | 40.33 | 39.82 | 1.362 | 1.345 | YES | 295 | 73.7 | 0.278 |
| 35 | d14-Dibenz(a,h)anthracene | 1.36e6 | 1.20e6 | 0.765 | 1.000 | 36.69 | 36.33 | 1.239 | 1.227 | YES | 297 | 74.3 | 0.271 |
| 36 | d10-Anthracene | 9.60e5 | 1.20e6 | 0.989 | 1.000 | 18.37 | 18.29 | 1.541 | 1.534 | NO | 162 | 81.1 | 0.0639 |
| 37 | d10-1-Methylnaphthalene | 1.49e6 | 1.49e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 200 | 100 | 0.0269 |
| 38 | d10-Pyrene | 1.77e6 | 1.77e6 | 1.00 | 1.000 | 20.81 | 20.82 | 1.000 | 1.000 | NO | 200 | 100 | 0.0144 |
| 39 | d12-Perylene | 1.20e6 | 1.20e6 | 1.00 | 1.000 | 29.59 | 29.60 | 1.000 | 1.000 | NO | 200 | 100 | 0.233 |

Dataset: Untitled

Last Altered: Friday, April 02, 2021 08:14:41 Pacific Daylight Time
Printed: Friday, April 02, 2021 08:18:56 Pacific Daylight Time

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03, Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)

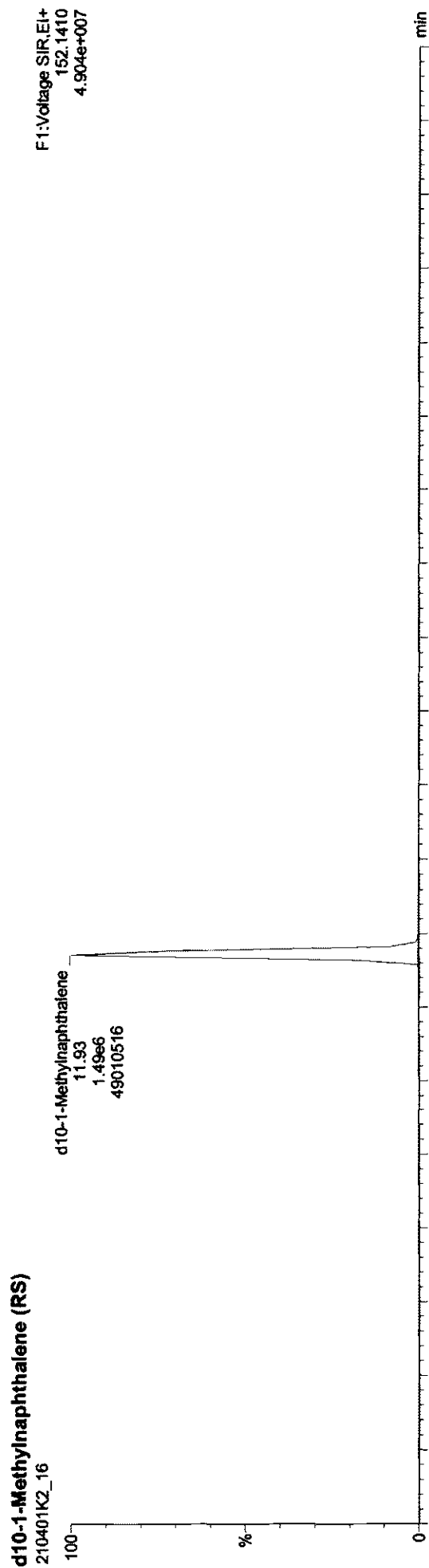
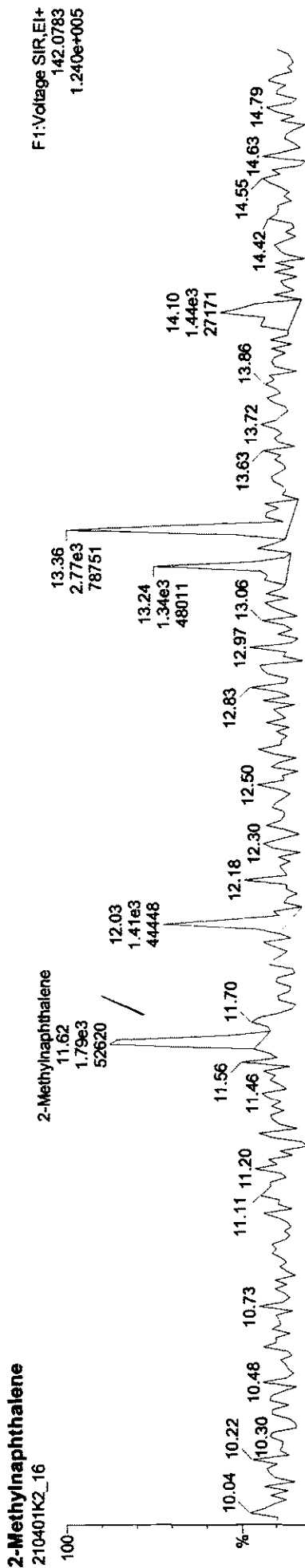


Quantify Sample Report
Vista Analytical Laboratory

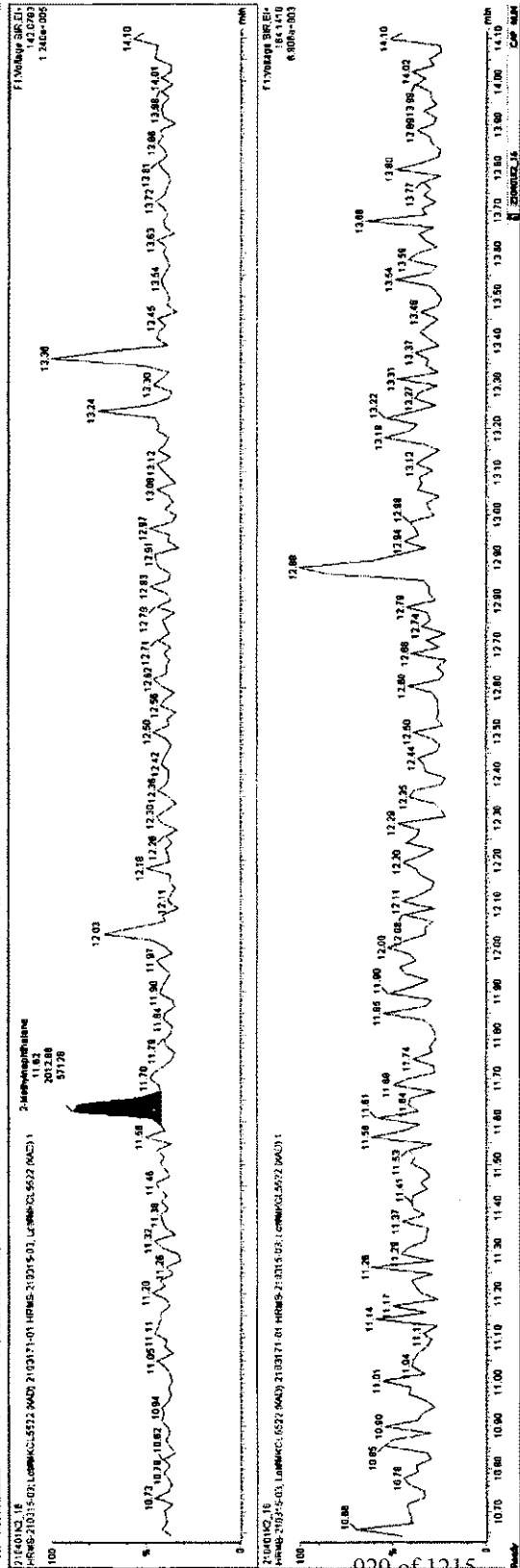
Dataset: Untitled

Last Altered: Friday, April 02, 2021 08:14:41 Pacific Daylight Time
Printed: Friday, April 02, 2021 08:18:56 Pacific Daylight Time

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



| Area | Peak | 6 Steps | Area | Height | RT | Peak ID | RT File | Comp. | Ratio | OL | MS-C |
|------|--------------|---------|--------|--------|-------|---------|---------|-------|-------|------|------|
| 1 | Phenanthrene | 1.78e4 | 1.98e7 | 1.02e5 | 10.17 | 1018 | NO | 1.96 | | 0.37 | 0.00 |
| 2 | Fluorenone | 3.56e4 | 6.72e7 | 1.32e5 | 10.17 | 1018 | NO | 1.96 | | 2.56 | |
| 3 | Phenanthrene | 3.77e4 | 7.88e7 | 1.55e5 | 11.68 | 1168 | NO | 2.37 | | 100 | |
| 4 | Phenanthrene | 1.74e4 | 1.02e7 | 1.82e4 | 14.78 | 1478 | NO | 0.36 | | 0.36 | |
| 5 | Phenanthrene | 2.44e4 | 1.52e7 | 1.62e4 | 14.78 | 1478 | YES | 0.29 | | 0.29 | |
| 6 | Phenanthrene | 4.79e4 | 9.62e7 | 1.08e5 | 18.34 | 1834 | NO | 0.43 | | 0.68 | 0.00 |
| 7 | Fluorenone | 9.82e4 | 1.02e8 | 1.25e5 | 18.34 | 1834 | NO | 1.21 | | 1.21 | |
| 8 | Fluorenone | 9.82e4 | 1.02e8 | 1.25e5 | 18.34 | 1834 | YES | 1.21 | | 0.18 | |
| 9 | Fluorenone | 4.21e4 | 1.91e7 | 1.02e4 | 20.36 | 2036 | NO | 0.41 | | 0.94 | 0.00 |
| 10 | Phenanthrene | 4.24e4 | 1.91e7 | 1.02e4 | 20.36 | 2036 | NO | 0.36 | | 0.29 | 0.00 |
| 11 | Phenanthrene | 1.79e4 | 1.03e7 | 1.03e4 | 20.36 | 2036 | NO | 0.34 | | 0.18 | 0.00 |
| 12 | Phenanthrene | 1.78e4 | 1.03e7 | 1.03e4 | 20.36 | 2036 | NO | 0.34 | | 0.18 | 0.00 |
| 13 | Chrysene | 1.25e4 | 6.61e6 | 1.02e4 | 21.41 | 2141 | NO | 0.24 | | 0.19 | 0.00 |
| 14 | Phenanthrene | 5.86e4 | 2.72e7 | 1.02e4 | 21.41 | 2141 | NO | 0.24 | | 0.19 | 0.00 |
| 15 | Phenanthrene | 3.82e4 | 1.91e7 | 1.02e4 | 21.41 | 2141 | NO | 0.24 | | 0.19 | 0.00 |
| 16 | Phenanthrene | 3.82e4 | 1.91e7 | 1.02e4 | 21.41 | 2141 | NO | 0.24 | | 0.19 | 0.00 |
| 17 | Phenanthrene | 3.82e4 | 1.91e7 | 1.02e4 | 21.41 | 2141 | NO | 0.24 | | 0.19 | 0.00 |

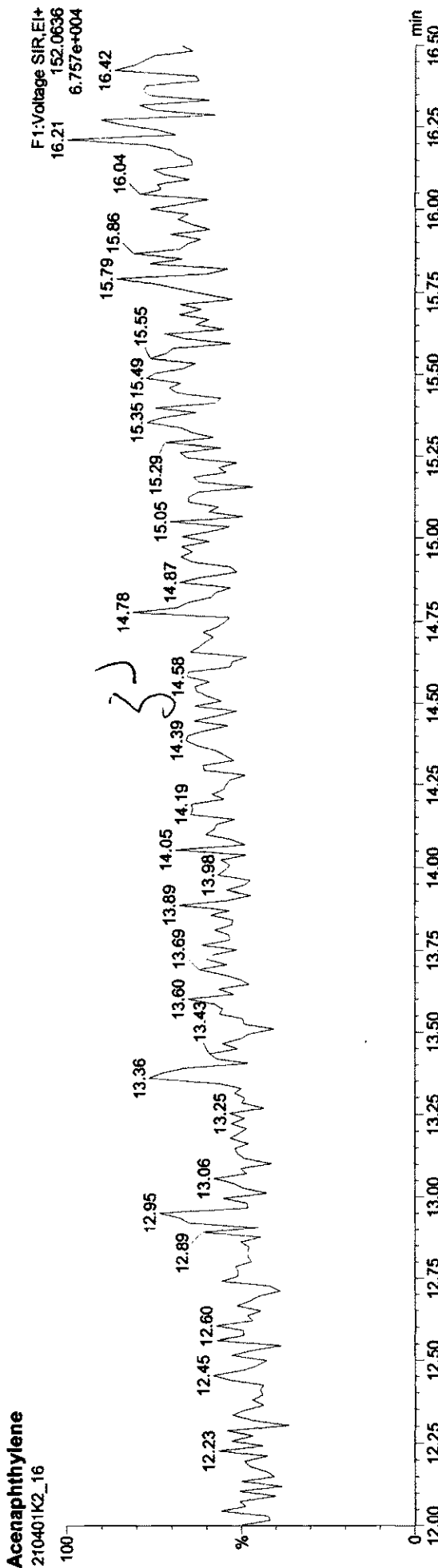


Quantify Sample Report
Vista Analytical Laboratory

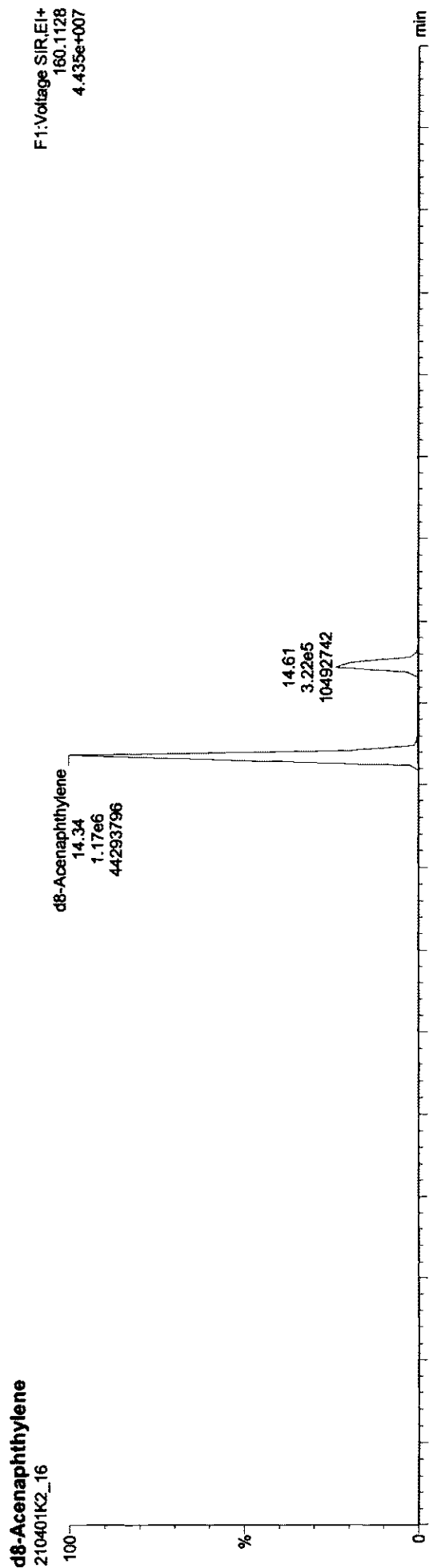
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Printed: Friday, April 02, 2021 08:18:56 Pacific Daylight Time

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



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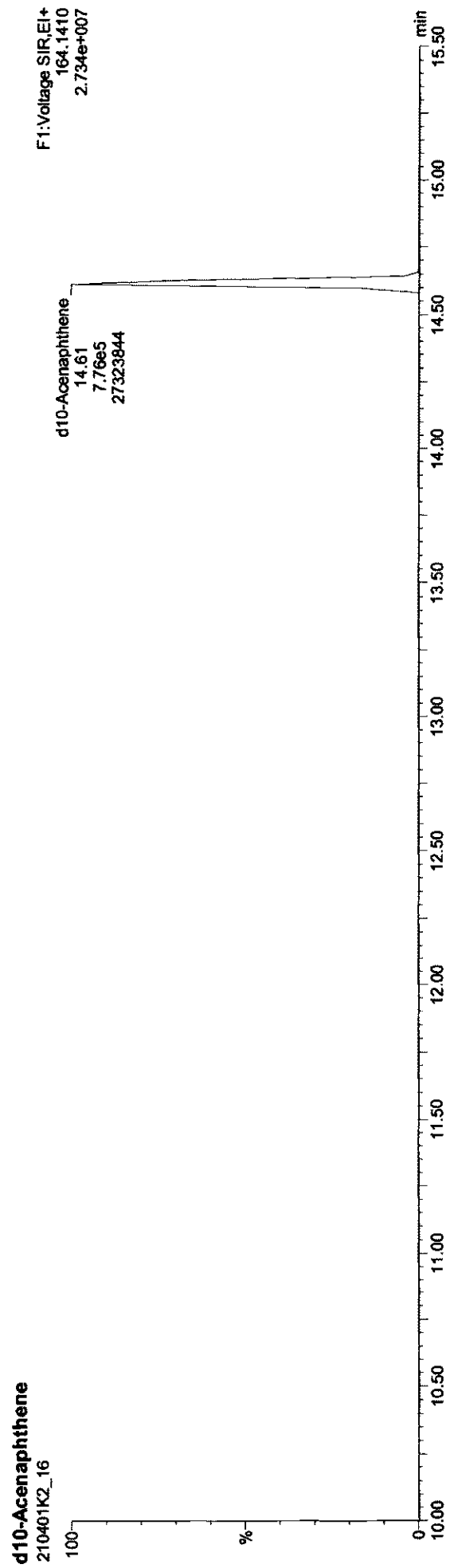
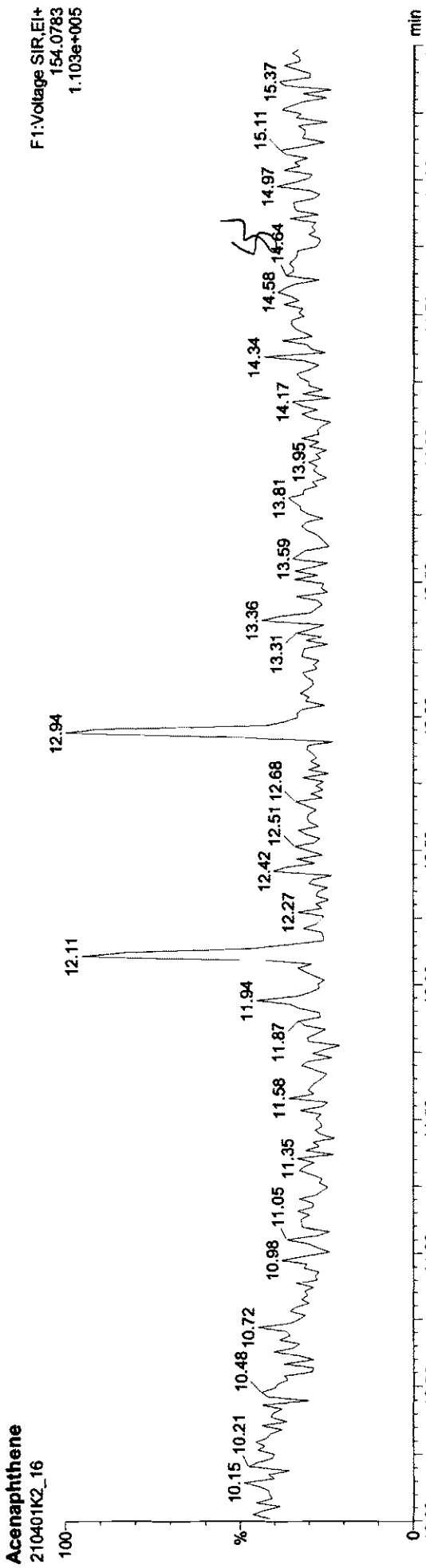


Quantify Sample Report
Vista Analytical Laboratory

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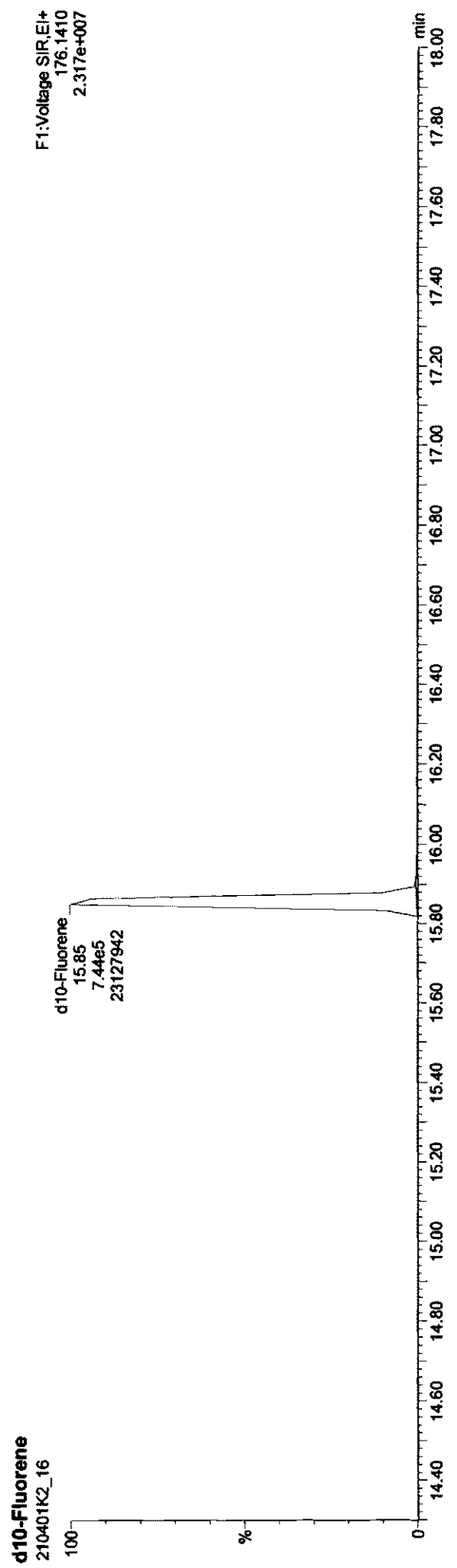
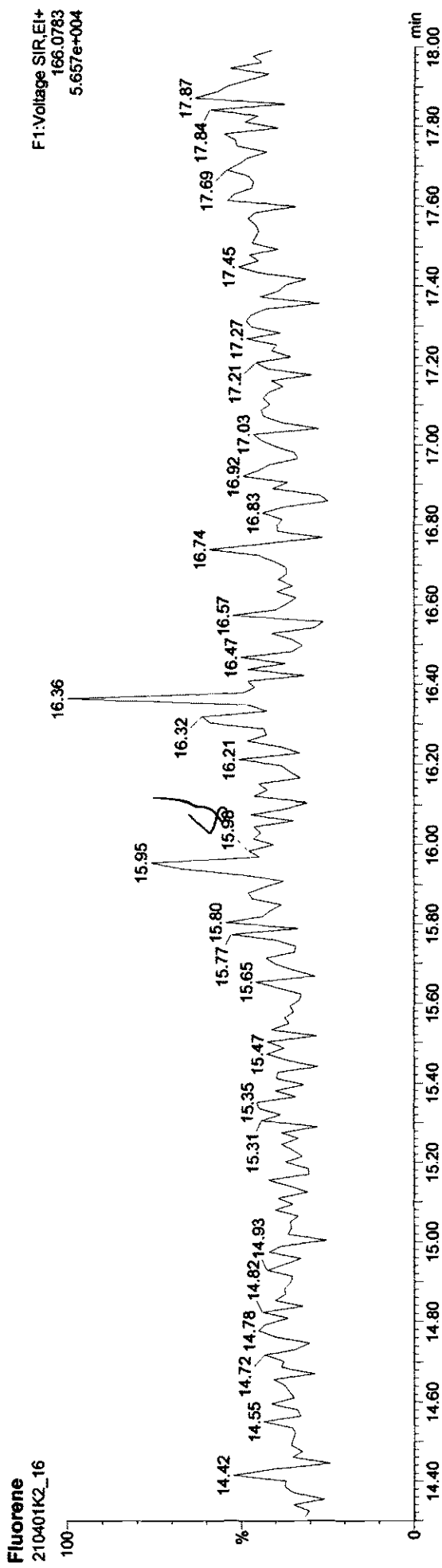
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Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



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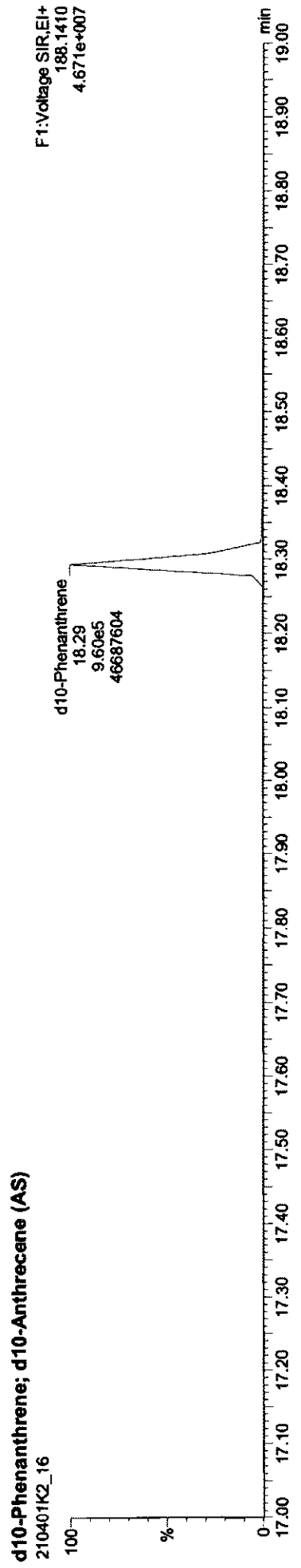
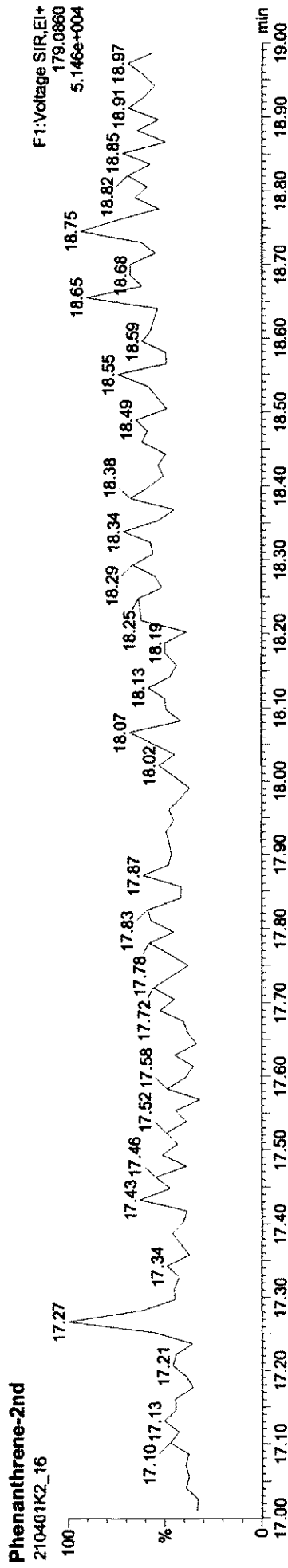
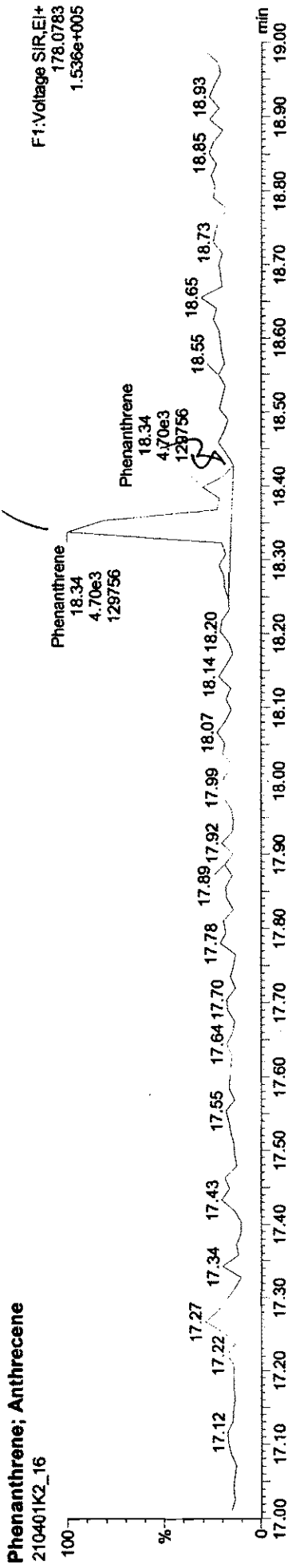
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Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



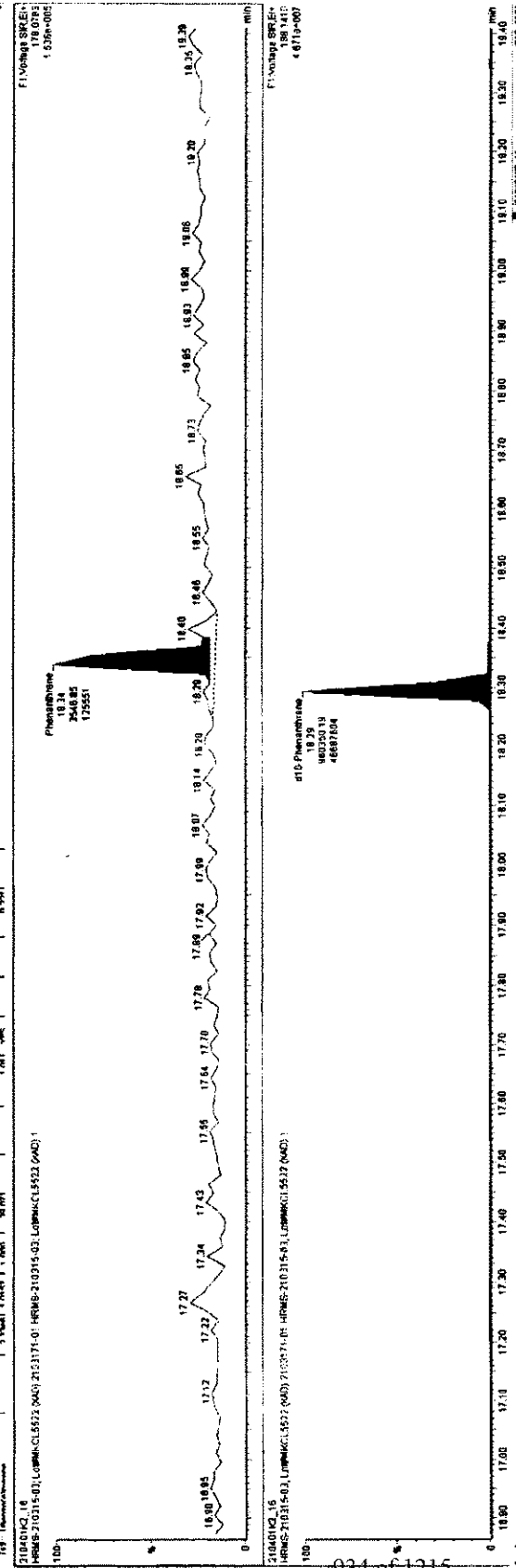
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Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



| Peak | RT | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height | Area | Height | Width | Height | |
|------|--------|--------|--------|-------|--------|--------|--------|-------|--------|-------|--------|-------|--------|------|--------|-------|--------|------|--------|-------|--------|--|
| 1 | 1.364 | 1.25e5 | 1.15e7 | 1.000 | 10.17 | 1.01e8 | 1.000 | 1.01 | 1.02 | 0.37 | 0.00 | | | | | | | | | | | |
| 2 | 1.364 | 1.25e5 | 1.15e7 | 1.000 | 10.17 | 1.01e8 | 1.000 | 1.01 | 1.02 | 0.37 | 0.00 | | | | | | | | | | | |
| 3 | 2.467 | 7.76e5 | 3.70e6 | 1.000 | 11.81 | 1.18e7 | 0.78e6 | 0.79 | 1.02 | 0.377 | 0.00 | | | | | | | | | | | |
| 4 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 5 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 6 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 7 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 8 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 9 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 10 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 11 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 12 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 13 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 14 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 15 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 16 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 17 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 18 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 19 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |
| 20 | 7.76e5 | 1.17e6 | 1.17e6 | 1.000 | 14.36 | 1.43e6 | 1.43e6 | 1.43 | 1.02 | 0.251 | 0.00 | | | | | | | | | | | |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

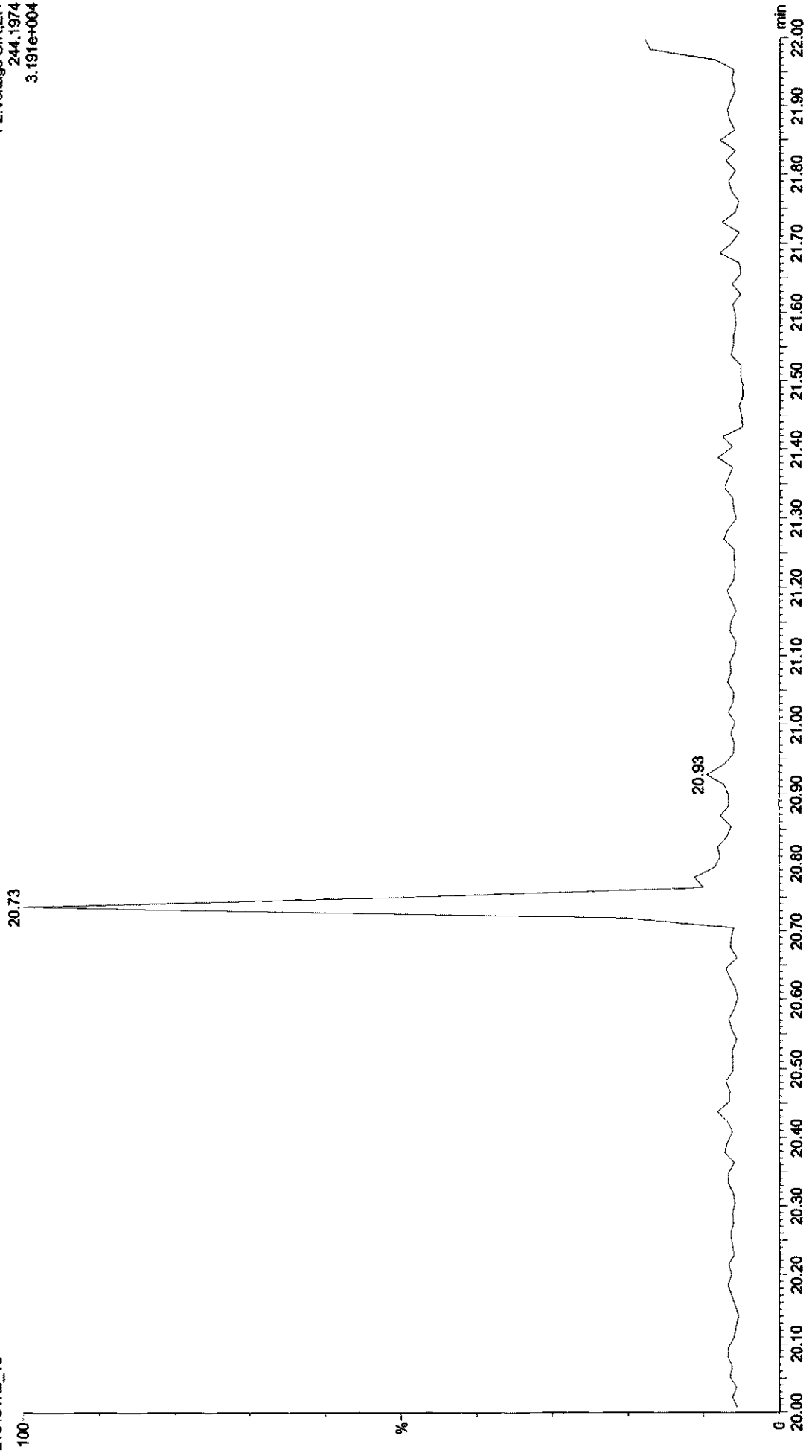
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Printed: Friday, April 02, 2021 08:18:56 Pacific Daylight Time

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)

d14-Terphenyl (PS)

210401K2_16

F2:Voltage SIR,EI+
244.1974
3.191e+004

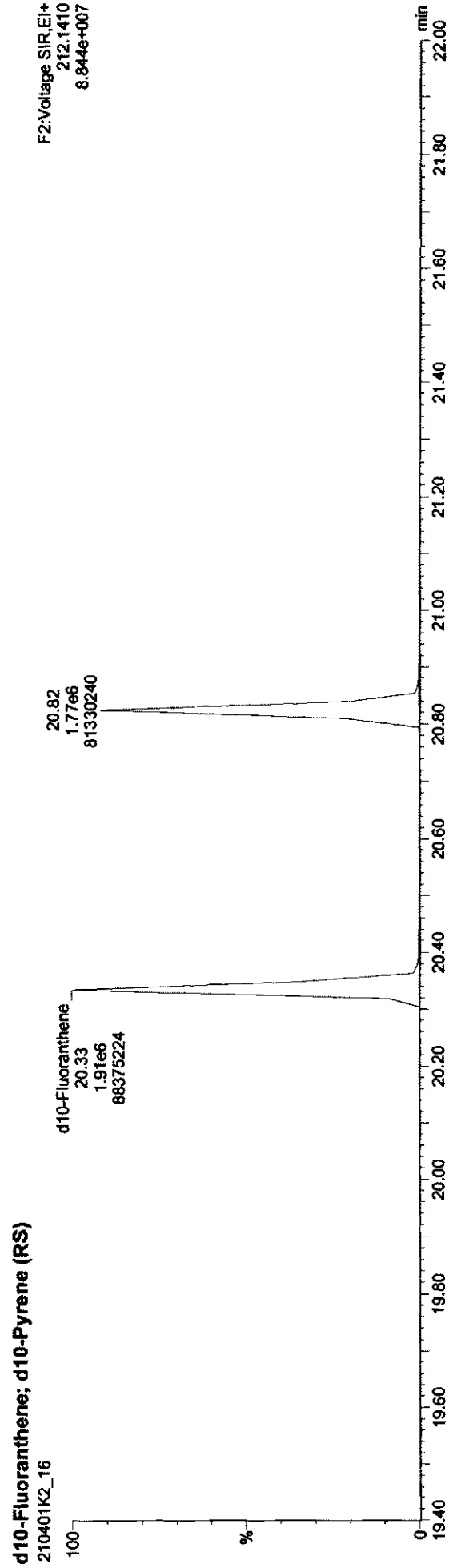
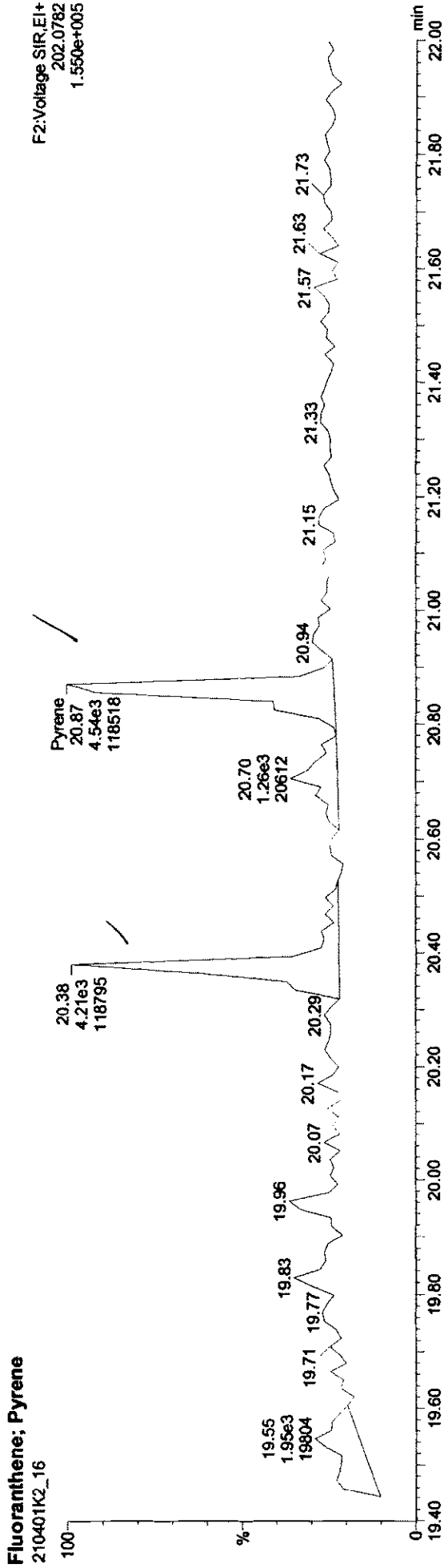


Quantify Sample Report
Vista Analytical Laboratory

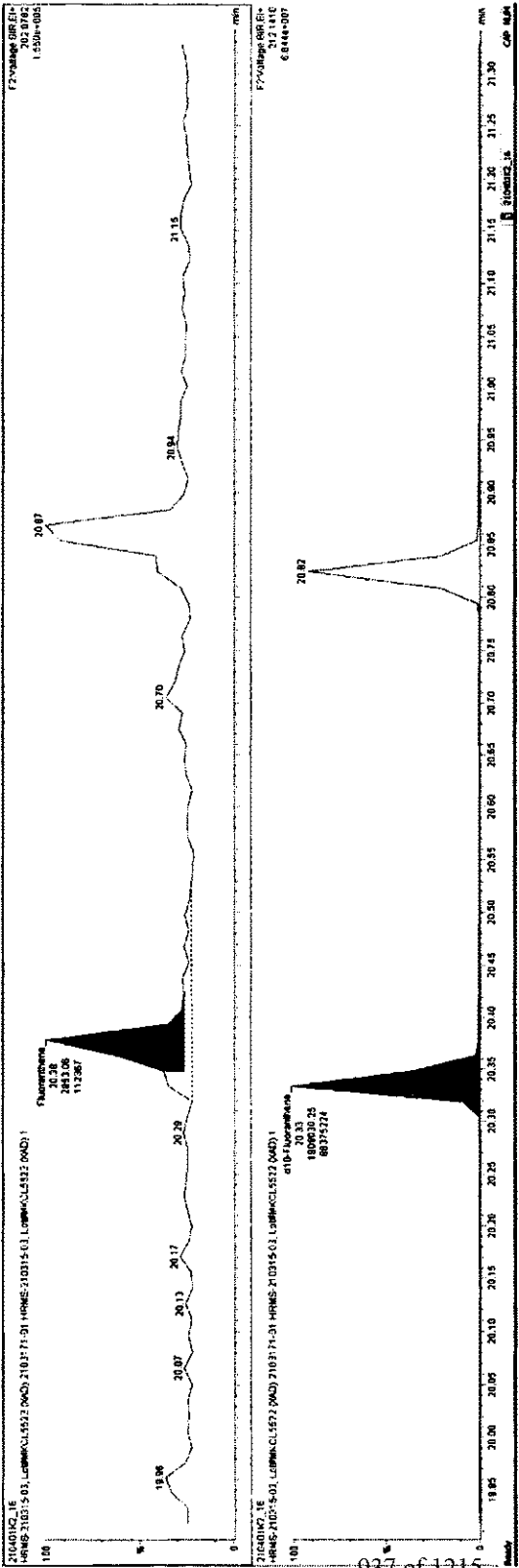
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Printed: Friday, April 02, 2021 08:18:56 Pacific Daylight Time

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



| Peak | Time | RT | Height | Area | Height | Area | Height | Area | Height | Area | Height | Area |
|------|-------|-------|--------|-------|--------|-------|--------|------|--------|------|--------|------|
| 1 | 1.258 | 1.258 | 1.000 | 0.11 | 0.19 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 2 | 2.043 | 1.738 | 1.000 | 1.54 | 0.31 | 1.000 | 0.37 | 0.41 | 0.00 | | | |
| 3 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 4 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 5 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 6 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 7 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 8 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 9 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 10 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 11 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 12 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 13 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 14 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 15 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 16 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 17 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 18 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 19 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |
| 20 | 2.043 | 1.738 | 1.000 | 14.38 | 11.83 | 1.000 | 1.00 | 0.21 | 0.00 | | | |

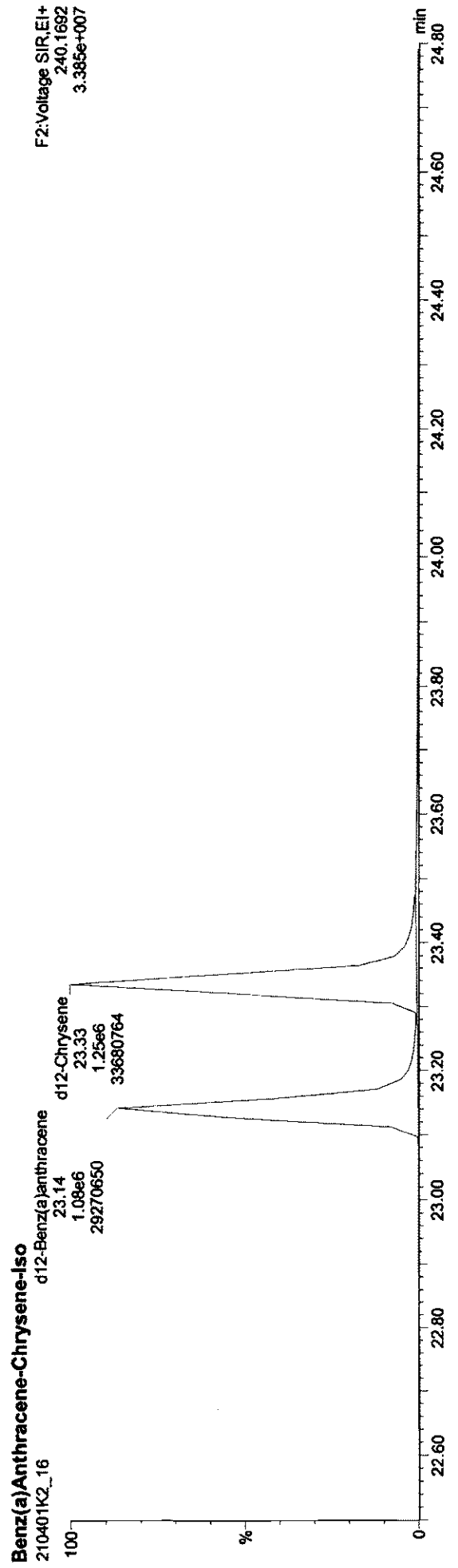
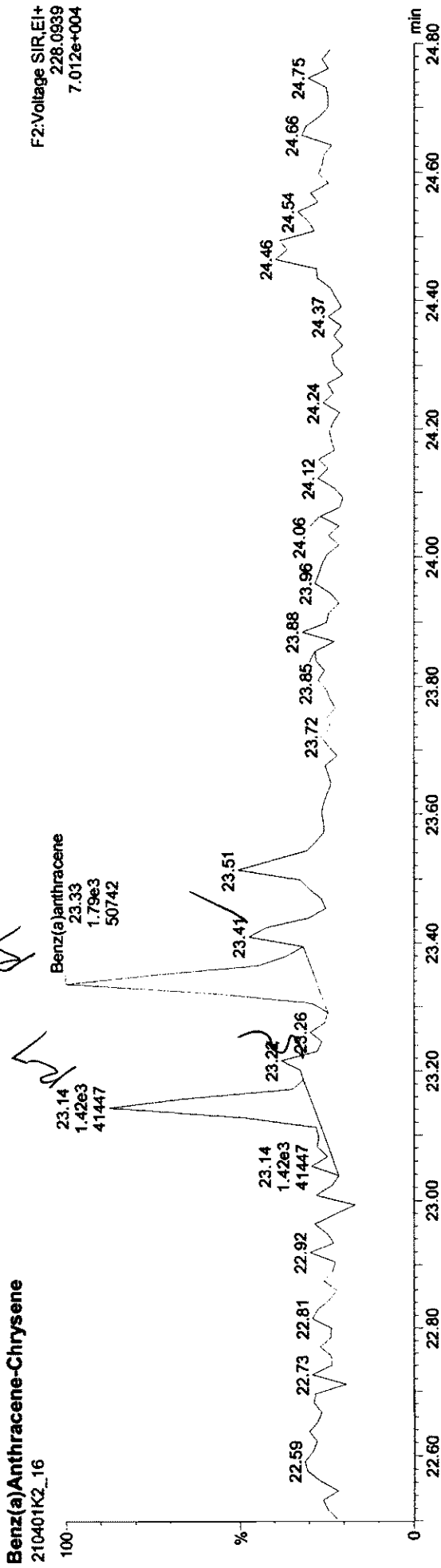


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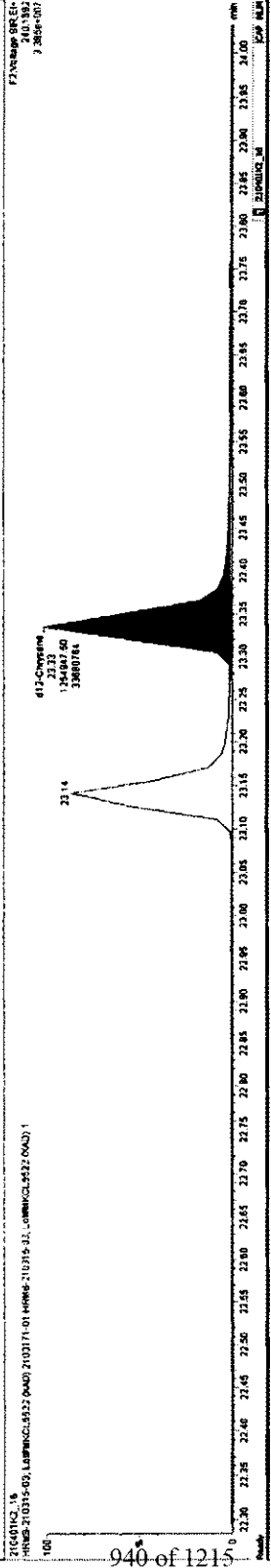
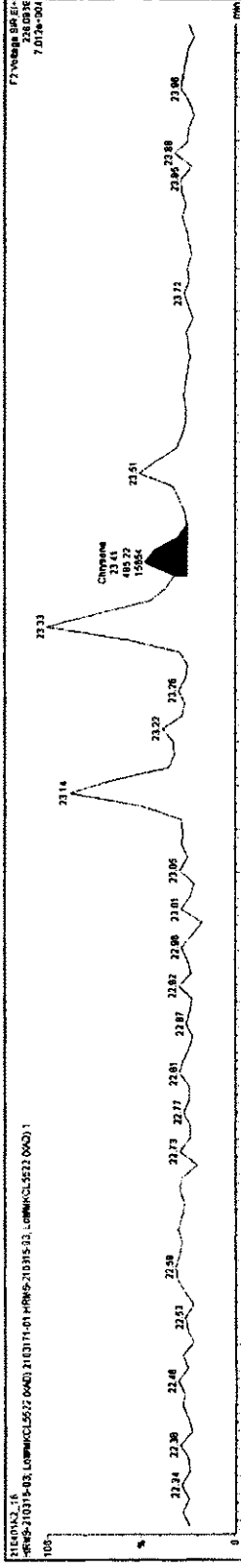
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Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



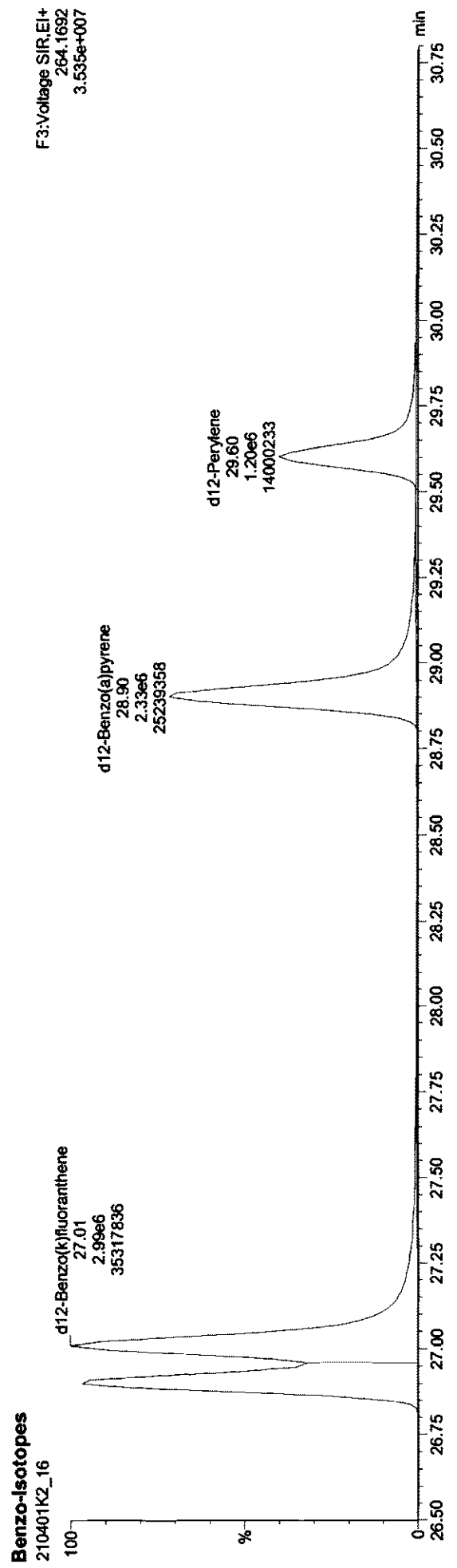
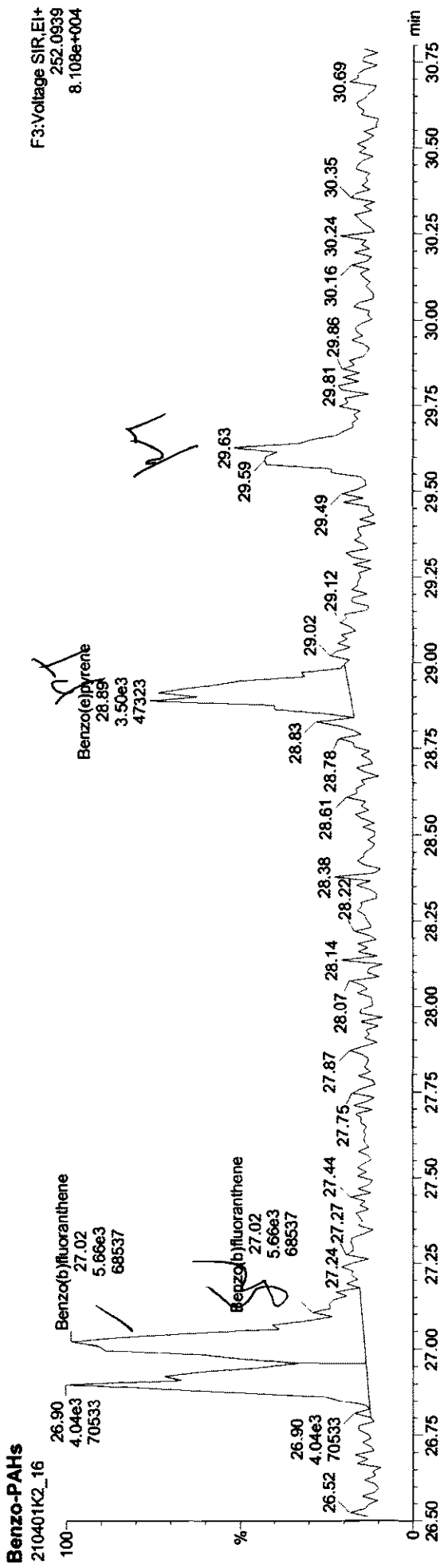
| Scan | Time | Height | Area | Height | Area | Height | Area | Height | Area | Height | Area |
|------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 1 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 2 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 3 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 4 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 5 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 6 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 7 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 8 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 9 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 10 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 11 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 12 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 13 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 14 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 15 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 16 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 17 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 18 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 19 | 22.36 | 1.25e4 | 1.197 | 1.000 | 10.17 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |



Dataset: Untitled

Last Altered: Friday, April 02, 2021 08:14:41 Pacific Daylight Time
Printed: Friday, April 02, 2021 08:18:56 Pacific Daylight Time

Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)



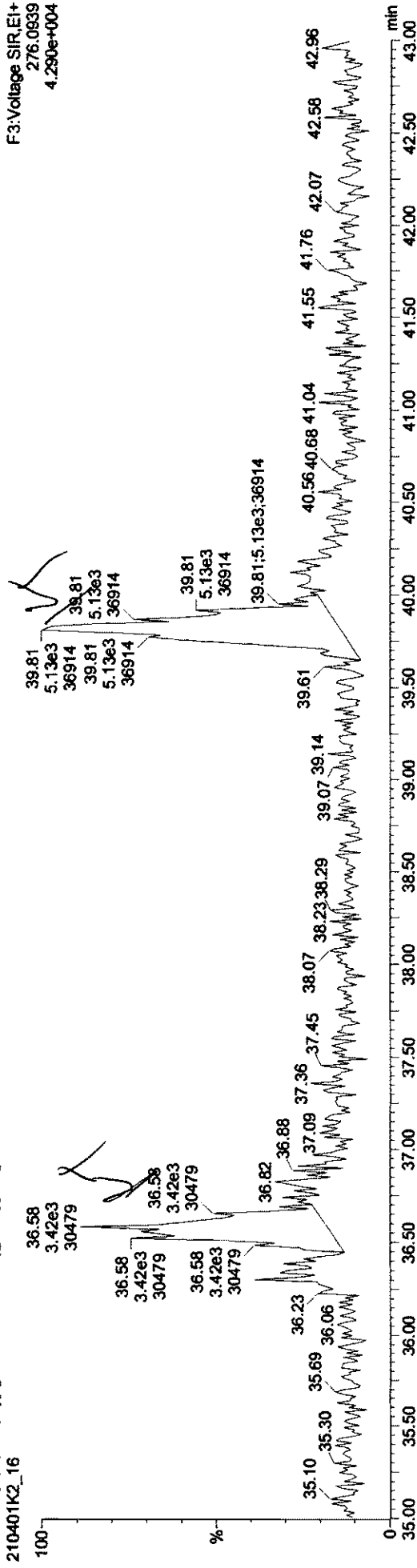
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

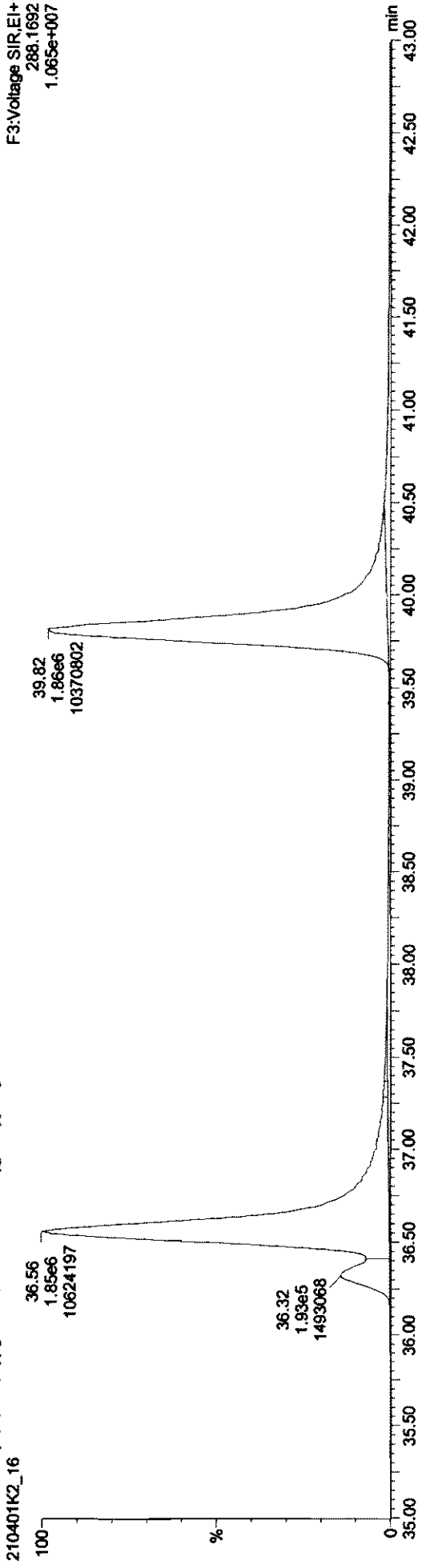
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Description: HRMS-210315-03; Lot#MKCL5522 (XAD)

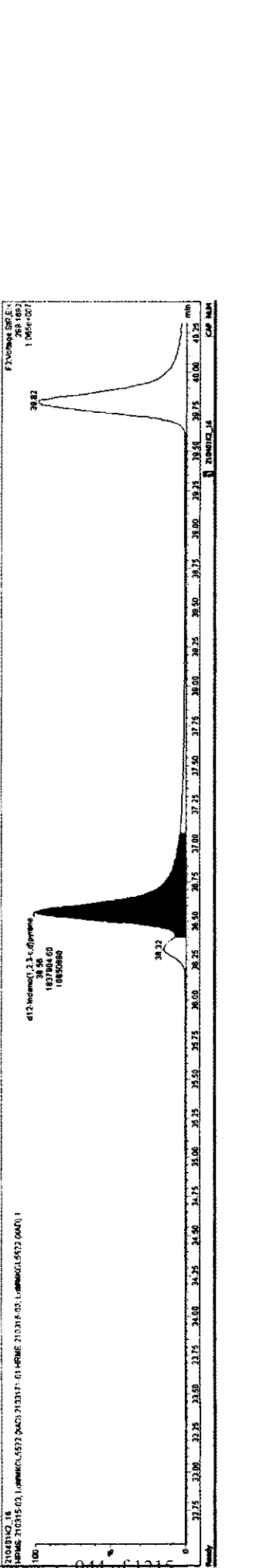
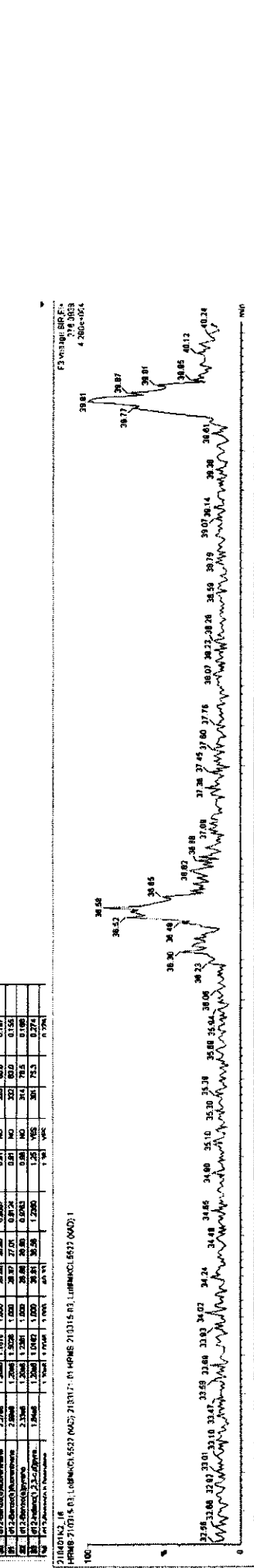
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene



| Peak # | Retention Time (min) | Area | Height | Width | Integration | Response | Concentration (%) |
|--------|----------------------|------|--------|-------|-------------|----------|-------------------|
| 1 | 32.06 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 2 | 32.10 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 3 | 32.14 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 4 | 32.18 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 5 | 32.22 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 6 | 32.26 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 7 | 32.30 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 8 | 32.34 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 9 | 32.38 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 10 | 32.42 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 11 | 32.46 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 12 | 32.50 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 13 | 32.54 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 14 | 32.58 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 15 | 32.62 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 16 | 32.66 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 17 | 32.70 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 18 | 32.74 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 19 | 32.78 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 20 | 32.82 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 21 | 32.86 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 22 | 32.90 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 23 | 32.94 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 24 | 32.98 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 25 | 33.02 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 26 | 33.06 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 27 | 33.10 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 28 | 33.14 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 29 | 33.18 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 30 | 33.22 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 31 | 33.26 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 32 | 33.30 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 33 | 33.34 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 34 | 33.38 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 35 | 33.42 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 36 | 33.46 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 37 | 33.50 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 38 | 33.54 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 39 | 33.58 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 40 | 33.62 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 41 | 33.66 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 42 | 33.70 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 43 | 33.74 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 44 | 33.78 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 45 | 33.82 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 46 | 33.86 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 47 | 33.90 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 48 | 33.94 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 49 | 33.98 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 50 | 34.02 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 51 | 34.06 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 52 | 34.10 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 53 | 34.14 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 54 | 34.18 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 55 | 34.22 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 56 | 34.26 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 57 | 34.30 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 58 | 34.34 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 59 | 34.38 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 60 | 34.42 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 61 | 34.46 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 62 | 34.50 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 63 | 34.54 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 64 | 34.58 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 65 | 34.62 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 66 | 34.66 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 67 | 34.70 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 68 | 34.74 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 69 | 34.78 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 70 | 34.82 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 71 | 34.86 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 72 | 34.90 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 73 | 34.94 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 74 | 34.98 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 75 | 35.02 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 76 | 35.06 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 77 | 35.10 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 78 | 35.14 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 79 | 35.18 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 80 | 35.22 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 81 | 35.26 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 82 | 35.30 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 83 | 35.34 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 84 | 35.38 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 85 | 35.42 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 86 | 35.46 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 87 | 35.50 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 88 | 35.54 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 89 | 35.58 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 90 | 35.62 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 91 | 35.66 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 92 | 35.70 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 93 | 35.74 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 94 | 35.78 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 95 | 35.82 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 96 | 35.86 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 97 | 35.90 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 98 | 35.94 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 99 | 35.98 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |
| 100 | 36.02 | 1000 | 1000 | 1.000 | 1.000 | 1.000 | 0.277 |



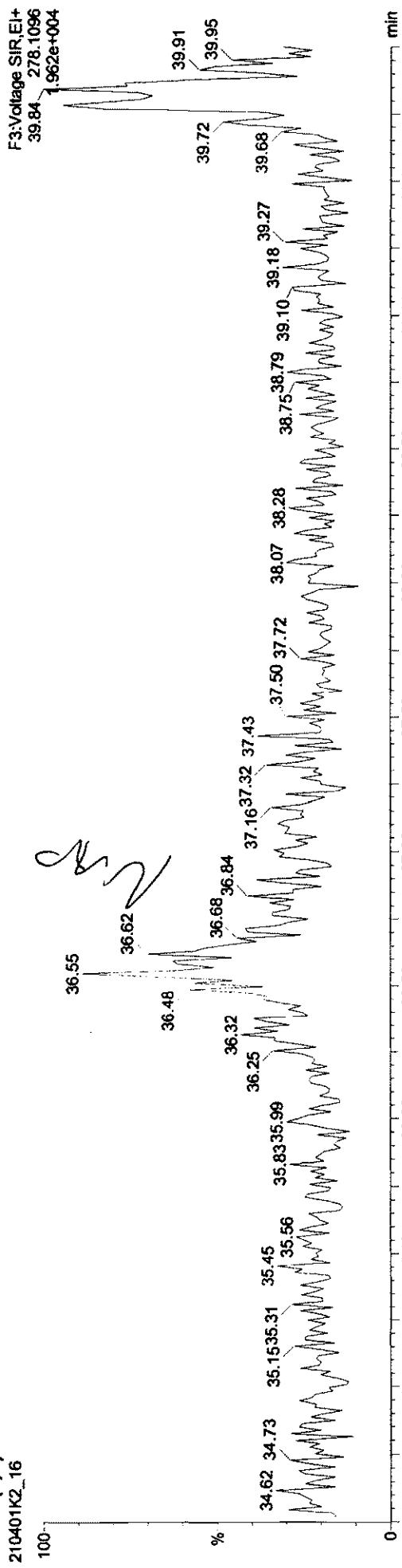
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Friday, April 02, 2021 08:14:41 Pacific Daylight Time
Printed: Friday, April 02, 2021 08:18:56 Pacific Daylight Time

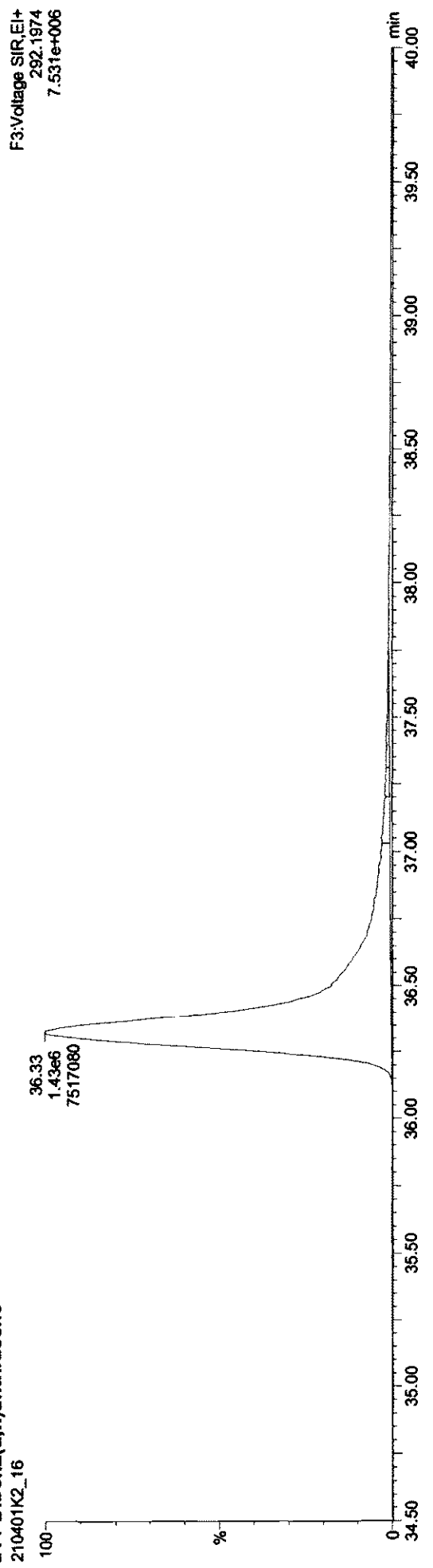
Name: 210401K2_16, Date: 01-Apr-2021, Time: 21:19:44, ID: 2103171-01 HRMS-210315-03; Lot#MKCL5522 (XAD) 1,
Description: HRMS-210315-03; Lot#MKCL5522 (XAD)

Dibenz(a,h)anthracene



946 of 1215

d14-Dibenz(a,h)anthracene



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: SI210406115

Reviewed By: DF 04/08/21

Initials & Date

End Calibration ID: NAF

Beg. NAF

End NAF

Ion abundance within QC limits?

NAF

NAF

Concentrations within criteria?

NAF

NAF

TCDD/TCDF Valleys <25%

NAF

NAF

First and last eluters present?

NAF

NAF

Retention Times within criteria?

NAF

NAF

Verification Std. named correctly?

NAF

NAF

(ST-Year-Month-Day-VG ID)

Forms signed and dated?

NAF

NAF

Correct ICAL referenced?

NAF

NAF

Run Log:

- Correct instrument listed?

NAF

NAF

- Samples within 12 hour clock?

Y

N

- Bottle position verified?

HR

HR

Mass resolution ≥

5k 6-8K 8K 10K

1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

NAF

NAF

GC Break <20%

NAF

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-5.qld

Last Altered: Wednesday, April 07, 2021 8:52:45 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:53:11 AM Pacific Daylight Time

U.A. 201
7F04/08/21

Method: Untitled 01 Apr 2021 13:23:22

Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

| # | Name | Resp | J | S | Resp | RRF | wVol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|--------------------------|--------|---|---|--------|--------|-------|---------|-------|---------|-------|---------|------|------|--------|
| 1 | Naphthalene | 4.96e6 | | | 1.77e6 | 1.16 | 1.000 | 10.17 | 10.18 | 1.006 | 1.006 | NO | 242 | 96.6 | 0.143 |
| 2 | Naphthalene-2nd | 5.46e5 | | | 1.77e6 | 0.128 | 1.000 | 10.17 | 10.18 | 1.006 | 1.006 | NO | 241 | 96.4 | 1.35 |
| 3 | 2-Methylnaphthalene | 1.21e6 | | | 9.53e5 | 1.38 | 1.000 | 11.61 | 11.62 | 0.794 | 0.796 | NO | 92.2 | 92.2 | 0.0929 |
| 4 | Acenaphthylene | 1.37e6 | | | 1.39e6 | 1.12 | 1.000 | 14.38 | 14.37 | 1.003 | 1.002 | NO | 88.0 | 88.0 | 0.0895 |
| 5 | Acenaphthene | 9.85e5 | | | 9.53e5 | 1.10 | 1.000 | 14.70 | 14.72 | 1.006 | 1.007 | NO | 93.8 | 93.8 | 0.138 |
| 6 | Fluorene | 1.06e6 | | | 9.34e5 | 1.15 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 98.2 | 98.2 | 0.0986 |
| 7 | Phenanthrene | 3.91e6 | | | 1.42e6 | 1.19 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 232 | 92.8 | 0.0459 |
| 8 | Phenanthrene-2nd | 2.82e5 | | | 1.42e6 | 0.0925 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 215 | 86.0 | 0.562 |
| 9 | Anthracene | 1.51e6 | | | 1.42e6 | 1.09 | 1.000 | 18.39 | 18.40 | 1.005 | 1.006 | NO | 97.7 | 97.7 | 0.0500 |
| 10 | Fluoranthene | 2.04e6 | | | 2.03e6 | 1.10 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 91.7 | 91.7 | 0.0225 |
| 11 | Pyrene | 2.22e6 | | | 2.03e6 | 1.20 | 1.000 | 20.87 | 20.85 | 1.026 | 1.026 | NO | 91.3 | 91.3 | 0.0207 |
| 12 | Benz(a)anthracene | 1.60e6 | | | 1.67e6 | 0.961 | 1.000 | 23.19 | 23.20 | 1.003 | 1.003 | NO | 99.6 | 99.6 | 0.0457 |
| 13 | Chrysene | 1.62e6 | | | 1.95e6 | 0.852 | 1.000 | 23.41 | 23.41 | 1.003 | 1.003 | NO | 97.6 | 97.6 | 0.0497 |
| 14 | Benzo(b)fluoranthene | 1.69e6 | | | 3.32e6 | 1.10 | 1.000 | 27.07 | 27.06 | 1.005 | 1.005 | NO | 91.9 | 91.9 | 0.104 |
| 15 | Benzo(k)fluoranthene | 2.00e6 | | | 3.84e6 | 1.04 | 1.000 | 27.16 | 27.15 | 1.004 | 1.004 | NO | 100 | 100 | 0.104 |
| 16 | Benzo(e)pyrene | 1.73e6 | | | 3.84e6 | 0.911 | 1.000 | 28.86 | 28.93 | 1.067 | 1.070 | NO | 99.0 | 99.0 | 0.119 |
| 17 | Benzo(a)pyrene | 1.66e6 | | | 3.39e6 | 1.02 | 1.000 | 29.20 | 29.20 | 1.006 | 1.006 | NO | 96.6 | 96.6 | 0.183 |
| 18 | Perylene | 1.62e6 | | | 3.39e6 | 0.987 | 1.000 | 29.95 | 29.99 | 1.031 | 1.033 | NO | 96.5 | 96.5 | 0.188 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.46e6 | | | 3.26e6 | 0.915 | 1.000 | 37.51 | 37.41 | 1.007 | 1.004 | NO | 97.5 | 97.5 | 0.562 |
| 20 | Benzo(g,h,i)perylene | 1.40e6 | | | 2.96e6 | 0.940 | 1.000 | 41.10 | 40.97 | 1.009 | 1.006 | NO | 100 | 100 | 0.681 |
| 21 | Dibenz(a,h)anthracene | 1.14e6 | | | 2.48e6 | 0.948 | 1.000 | 37.60 | 37.43 | 1.011 | 1.007 | NO | 97.0 | 97.0 | 0.496 |
| 22 | db-Naphthalene | 1.77e6 | | | 1.54e6 | 1.20 | 1.000 | 10.12 | 10.11 | 0.848 | 0.848 | NO | 95.7 | 95.7 | 0.0166 |
| 23 | db-Acenaphthylene | 1.39e6 | | | 1.54e6 | 0.905 | 1.000 | 14.33 | 14.34 | 1.201 | 1.202 | NO | 99.9 | 99.9 | 0.0202 |
| 24 | d10-Acenaphthene | 9.53e5 | | | 1.54e6 | 0.594 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 104 | 104 | 0.0188 |
| 25 | d10-Fluorene | 9.34e5 | | | 1.54e6 | 0.563 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 108 | 108 | 0.0191 |
| 26 | d10-Phenanthrene | 1.42e6 | | | 1.54e6 | 0.735 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 125 | 125 | 0.0142 |
| 27 | d10-Fluoranthene | 2.03e6 | | | 1.54e6 | 1.29 | 1.000 | 20.34 | 20.33 | 0.977 | 0.976 | NO | 102 | 102 | 0.0102 |
| 28 | d12-Benzo(a)anthracene | 1.67e6 | | | 1.54e6 | 0.900 | 1.000 | 23.13 | 23.13 | 1.110 | 1.111 | NO | 121 | 121 | 0.0153 |
| 29 | d12-Chrysene | 1.95e6 | | | 1.54e6 | 1.02 | 1.000 | 23.32 | 23.33 | 1.120 | 1.121 | NO | 124 | 124 | 0.0135 |
| 30 | d12-Benzo(b)fluoranthene | 3.32e6 | | | 1.31e6 | 1.18 | 1.000 | 26.94 | 26.93 | 0.904 | 0.904 | NO | 215 | 215 | 0.188 |
| 31 | d12-Benzo(k)fluoranthene | 3.84e6 | | | 1.31e6 | 1.50 | 1.000 | 27.04 | 27.05 | 0.907 | 0.907 | NO | 196 | 196 | 0.148 |

Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K1\210406K1-5.qld

Last Altered: Wednesday, April 07, 2021 8:52:45 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:53:11 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

| [#] Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|--------------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|--------|
| 32 d12-Benzof(a)pyrene | 3.39e6 | 1.31e6 | 1.24 | 1.000 | 29.06 | 29.03 | 0.975 | 0.974 | NO | 210 | 105 | 0.179 |
| 33 d12-Indeno(1,2,3-c,d)pyrene | 3.26e6 | 1.31e6 | 1.02 | 1.000 | 37.17 | 37.26 | 1.247 | 1.250 | NO | 246 | 123 | 0.226 |
| 34 d12-Benzof(g,h,i)perylene | 2.96e6 | 1.31e6 | 1.00 | 1.000 | 40.61 | 40.71 | 1.362 | 1.366 | NO | 226 | 113 | 0.229 |
| 35 d14-Dibenz(a,h)anthracene | 2.48e6 | 1.31e6 | 0.765 | 1.000 | 36.94 | 37.19 | 1.239 | 1.248 | NO | 248 | 124 | 0.271 |
| 36 d10-Anthracene | 1.39e6 | 1.31e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 108 | 108 | 0.0694 |
| 37 d14-Terphenyl | 2.58e6 | 2.03e6 | 0.576 | 1.000 | 20.70 | 20.74 | 1.018 | 1.020 | NO | 221 | 111 | 0.0137 |
| 38 d12-Benzof(e)pyrene | 2.88e6 | 3.84e6 | 0.738 | 1.000 | 28.67 | 28.76 | 1.060 | 1.064 | NO | 204 | 102 | 0.124 |
| 39 d10-1-Methylnaphthalene | 1.24e6 | 1.24e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 100 | 100 | 0.0201 |
| 40 d10-Pyrene | 1.54e6 | 1.54e6 | 1.00 | 1.000 | 20.81 | 20.82 | 1.000 | 1.000 | NO | 100 | 100 | 0.0131 |
| 41 d12-Perylene | 1.31e6 | 1.31e6 | 1.00 | 1.000 | 29.59 | 29.81 | 1.000 | 1.000 | NO | 100 | 100 | 0.222 |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:44:41 AM Pacific Daylight Time

Method: U:\VG11.PROMethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\idb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Compound name: Naphthalene

| Name | ID | Acq. Date | Acq. Time |
|------|-------------|-----------|-----------|
| 1 | 210406K1_1 | 06-Apr-21 | 11:16:41 |
| 2 | 210406K1_2 | 06-Apr-21 | 12:02:13 |
| 3 | 210406K1_3 | 06-Apr-21 | 12:48:35 |
| 4 | 210406K1_4 | 06-Apr-21 | 13:36:10 |
| 5 | 210406K1_5 | 06-Apr-21 | 14:22:15 |
| 6 | 210406K1_6 | 06-Apr-21 | 15:09:05 |
| 7 | 210406K1_7 | 06-Apr-21 | 15:55:57 |
| 8 | 210406K1_8 | 06-Apr-21 | 16:42:42 |
| 9 | 210406K1_9 | 06-Apr-21 | 17:29:34 |
| 10 | 210406K1_10 | 06-Apr-21 | 18:16:23 |
| 11 | 210406K1_11 | 06-Apr-21 | 19:03:12 |
| 12 | 210406K1_12 | 06-Apr-21 | 19:50:02 |
| 13 | 210406K1_13 | 06-Apr-21 | 20:36:51 |
| 14 | 210406K1_14 | 06-Apr-21 | 21:23:40 |
| 15 | 210406K1_15 | 06-Apr-21 | 22:10:28 |
| 16 | 210406K1_16 | 06-Apr-21 | 22:57:16 |
| 17 | 210406K1_17 | 06-Apr-21 | 23:44:05 |
| 18 | 210406K1_18 | 07-Apr-21 | 00:30:58 |
| 19 | 210406K1_19 | 07-Apr-21 | 01:17:50 |

Ⓟ ST210406K1-5 used as
 CCR reference current;
 valid FAL from 4-7-2021
 hr 4-7-2021

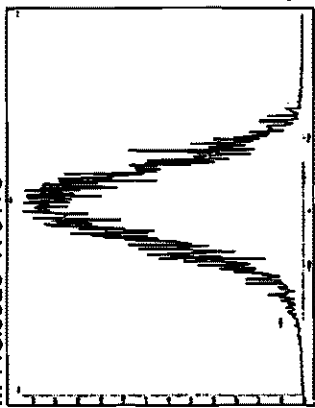
Experiment Calibration Report

MassLynx 4.1 SCN815

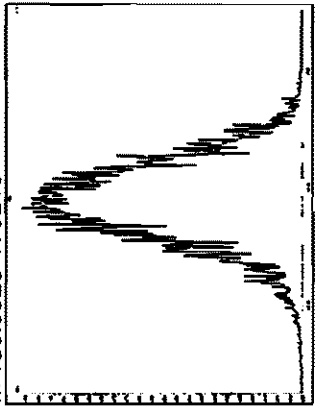
File: Experiment: PAH_ZB50.exp Reference: Plk.ref Function: 1 @ 250 (ppm)

Printed: Tuesday, April 06, 2021 11:12:30 Pacific Daylight Time

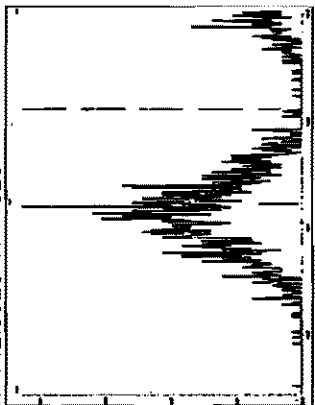
M 118.9920 R 9173



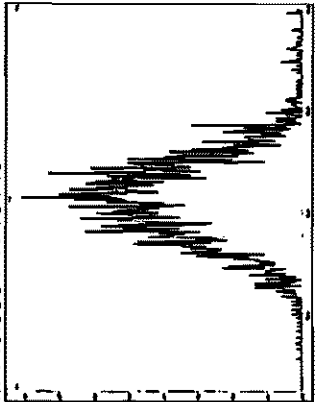
M 130.9920 R 9216



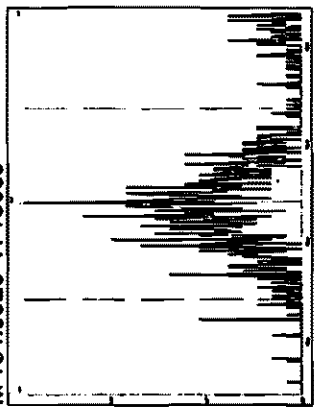
M 142.9920 R 11625



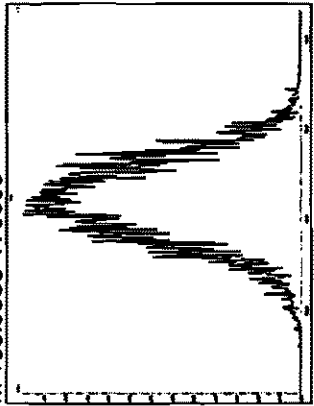
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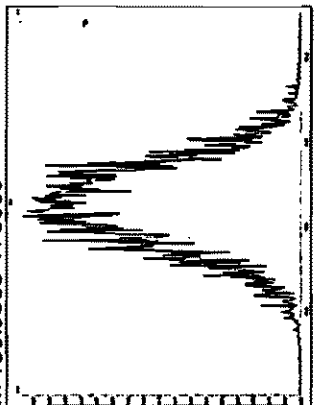
M 154.9920 R 16668



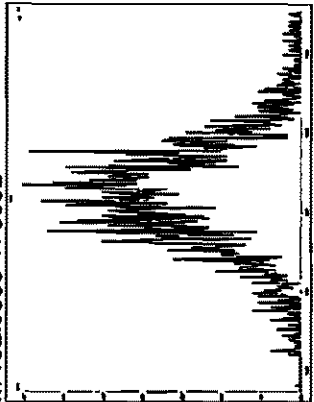
M 168.9888 R 9806



M 180.9888 R 8889



M 192.9888 R 9052



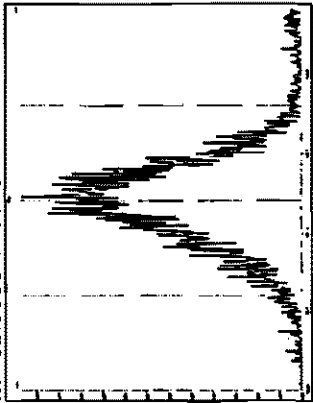
Experiment Calibration Report

MassLynx 4.1 SCN815

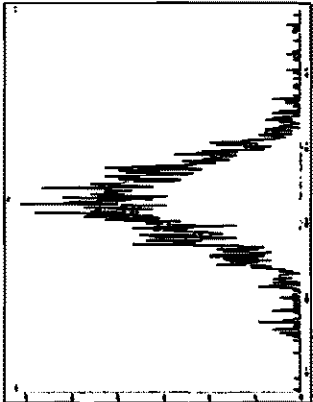
File: Experiment: PAH_ZB50.exp Reference: Pfk.ref Function: 2 @ 250 (ppm)

Printed: Tuesday, April 06, 2021 11:13:25 Pacific Daylight Time

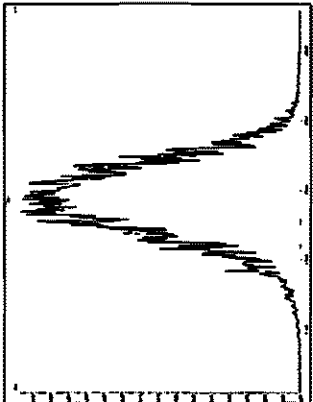
M 192.9888 R 8849



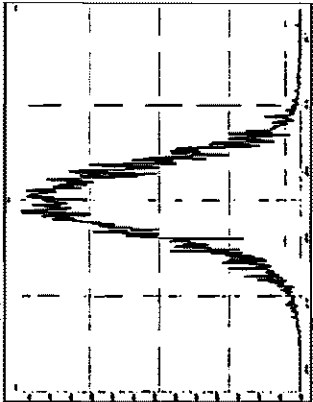
M 204.9888 R 10869



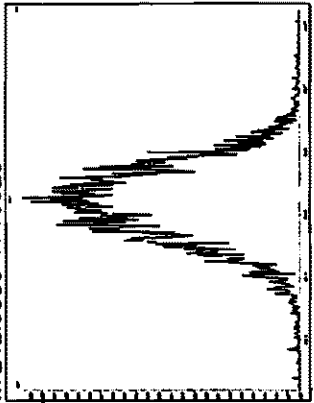
M 218.9856 R 9901



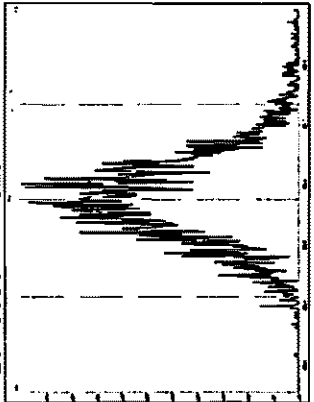
M 230.9856 R 10101



M 242.9856 R 10525



M 254.9856 R 11629

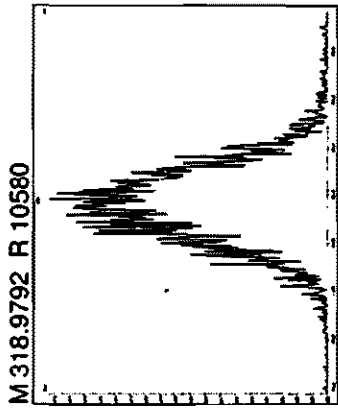
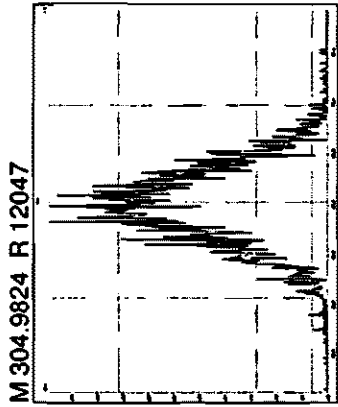
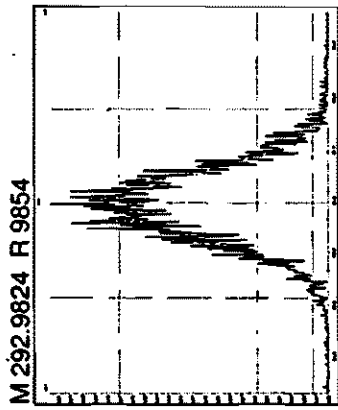
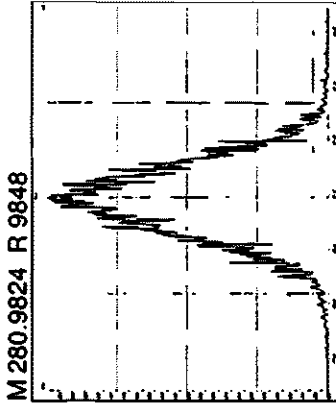
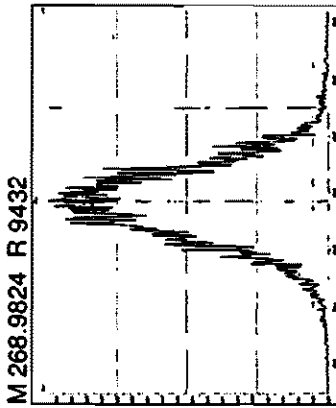
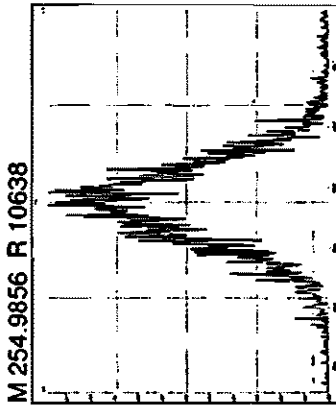
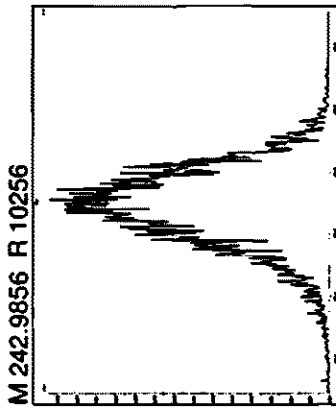


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: PAH_ZB50.exp Reference: Plk.ref Function: 3 @ 250 (ppm)

Printed: Tuesday, April 06, 2021 11:14:13 Pacific Daylight Time

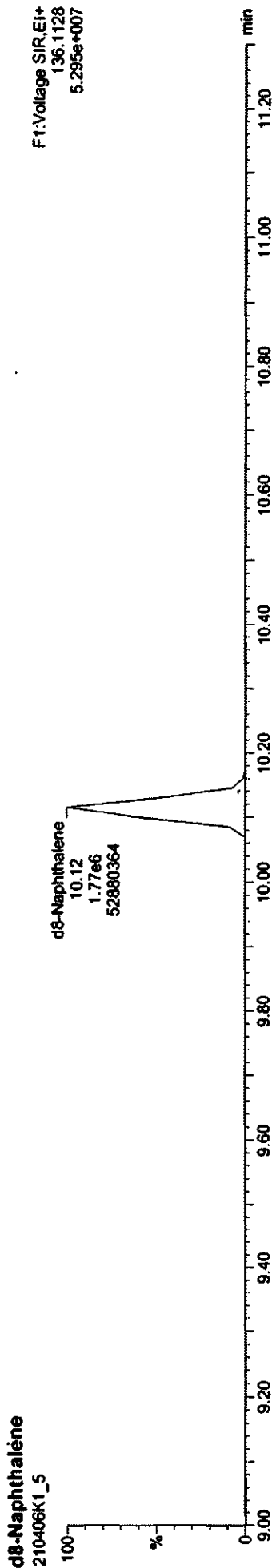
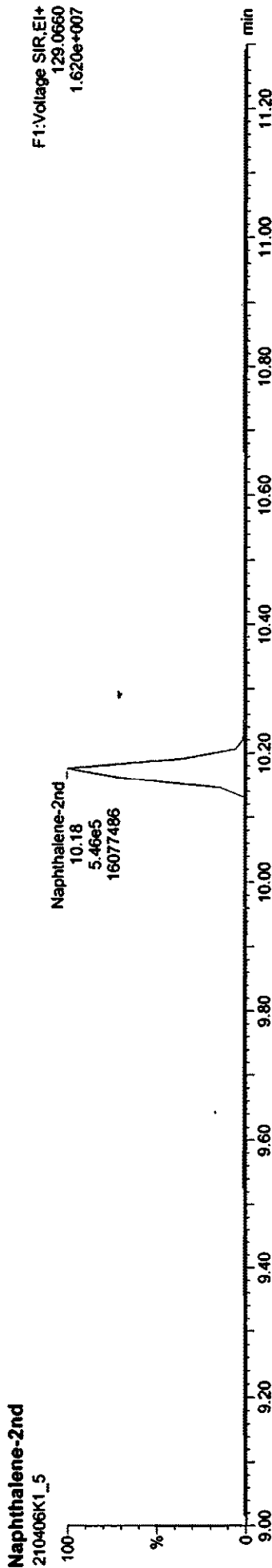
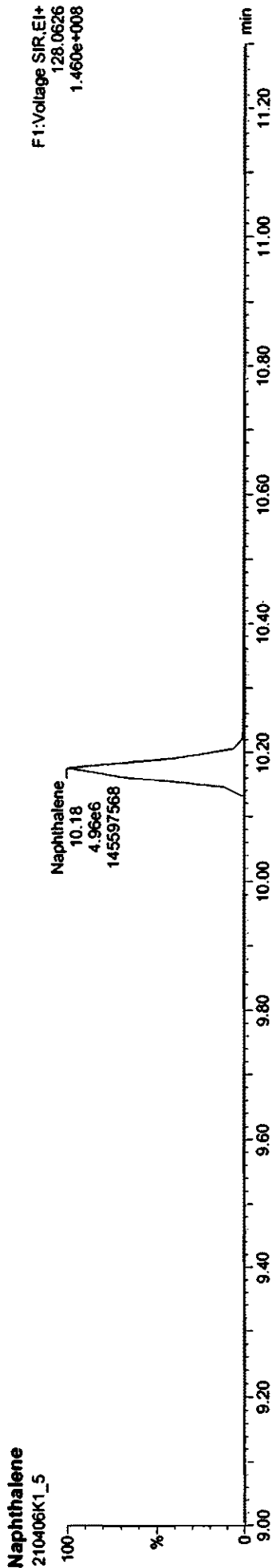


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11
Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

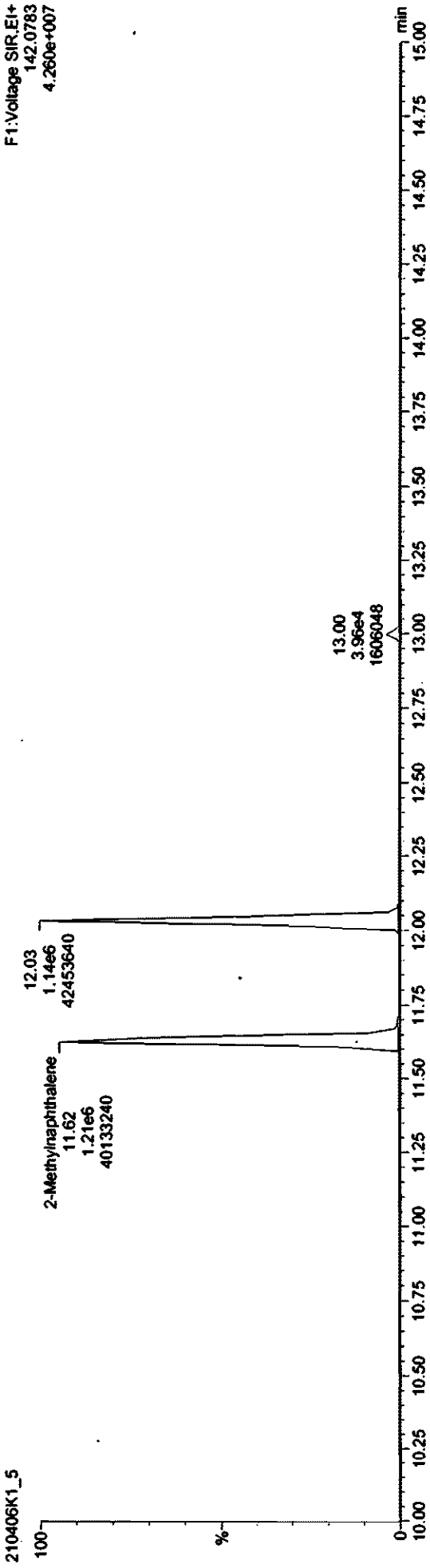


Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

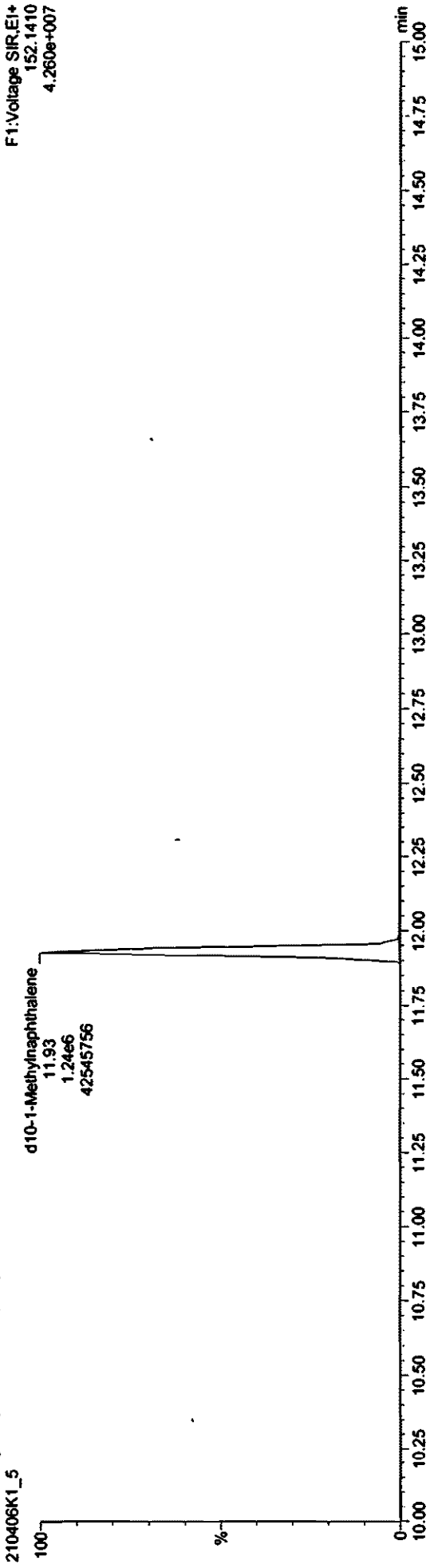
Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

2-Methylnaphthalene



957 of 1215

d10-1-Methylnaphthalene (RS)

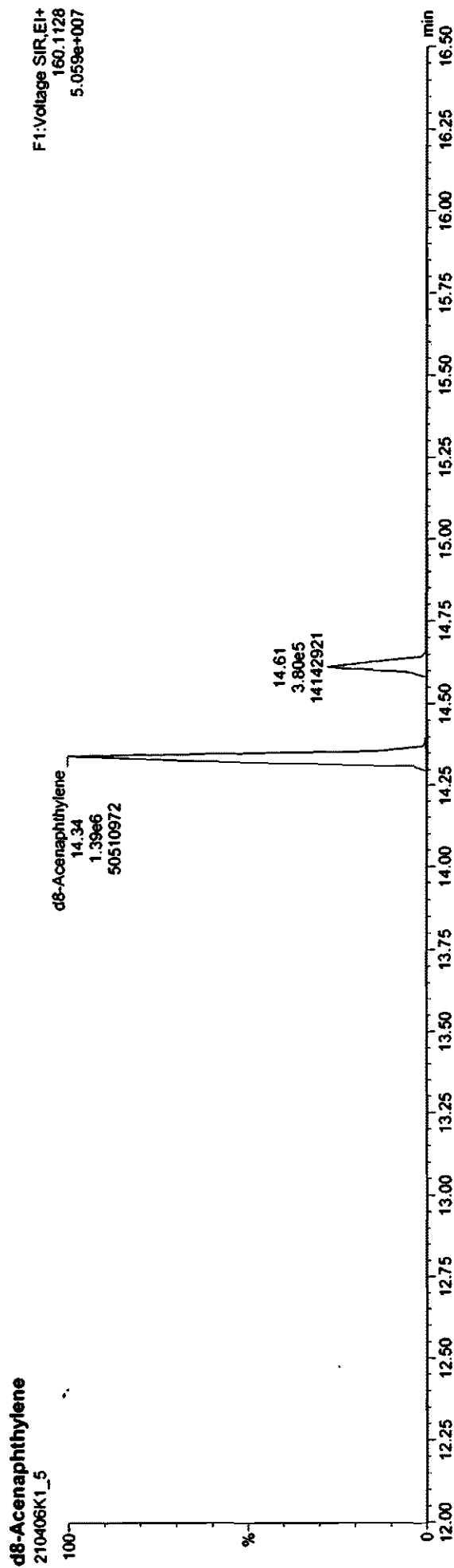
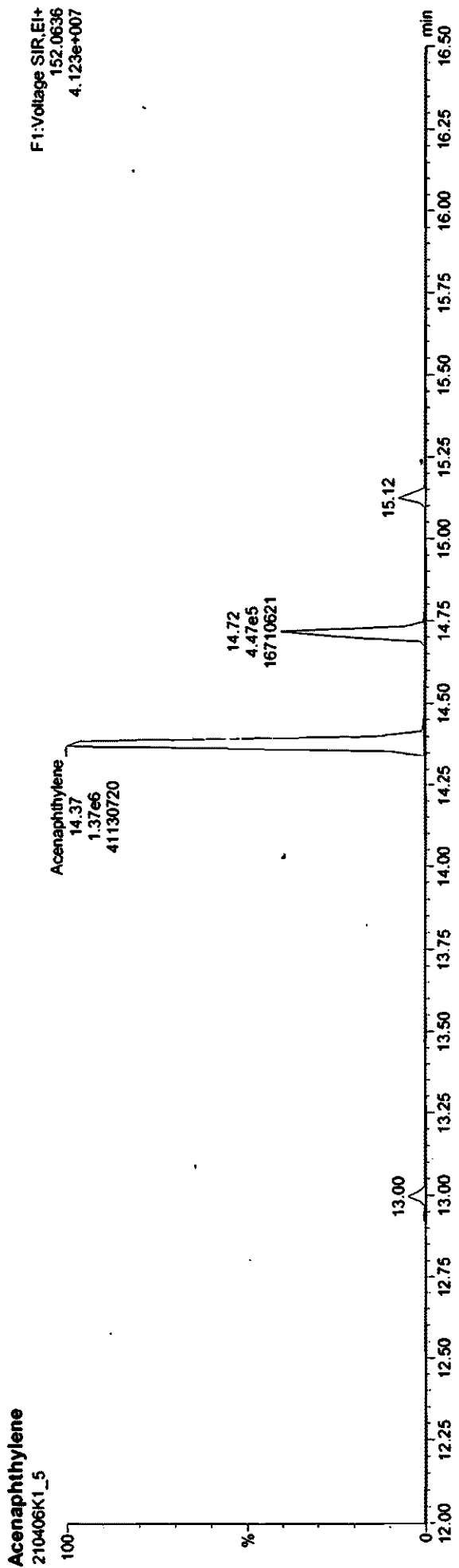


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5_429 CS3 20H2512, Description: 429 CS3 20H2512

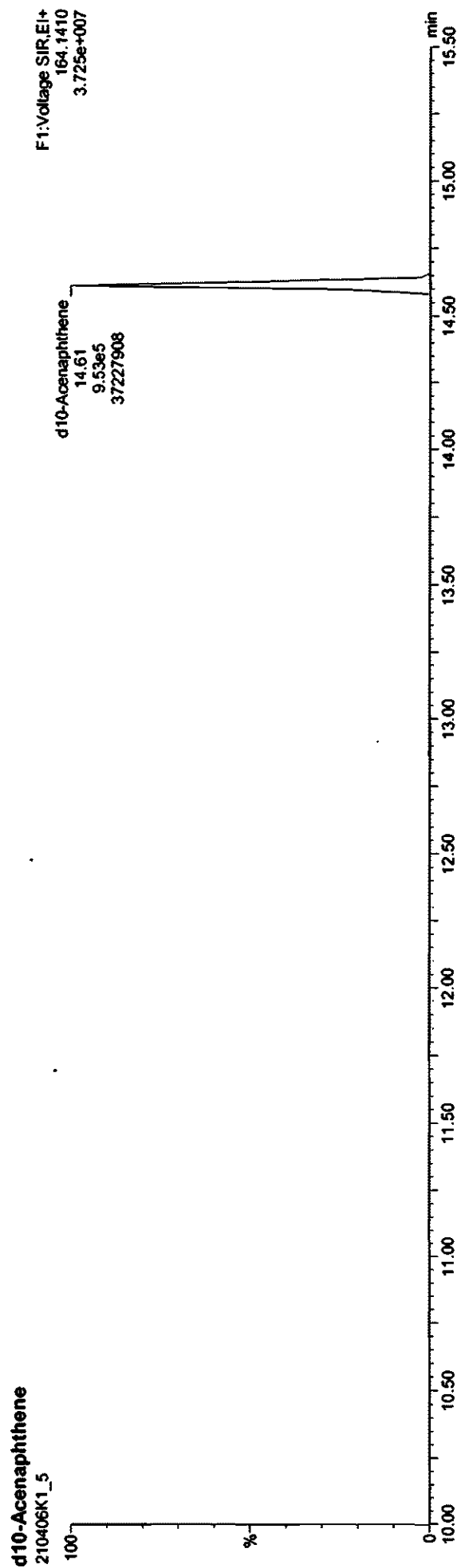
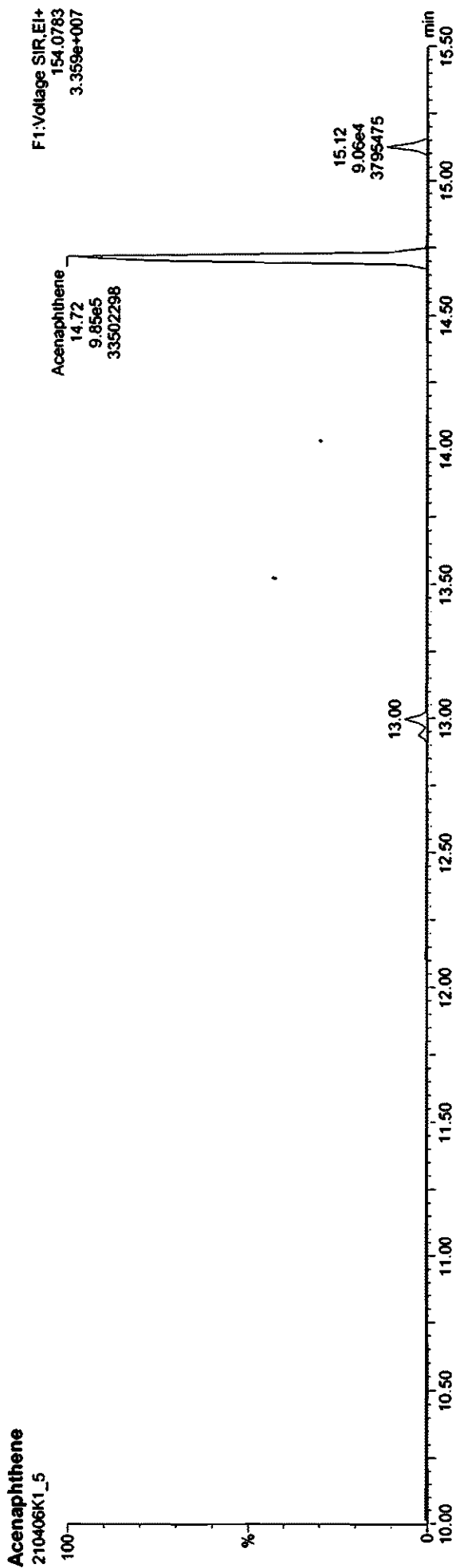


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5_429 CS3 20H2512, Description: 429 CS3 20H2512

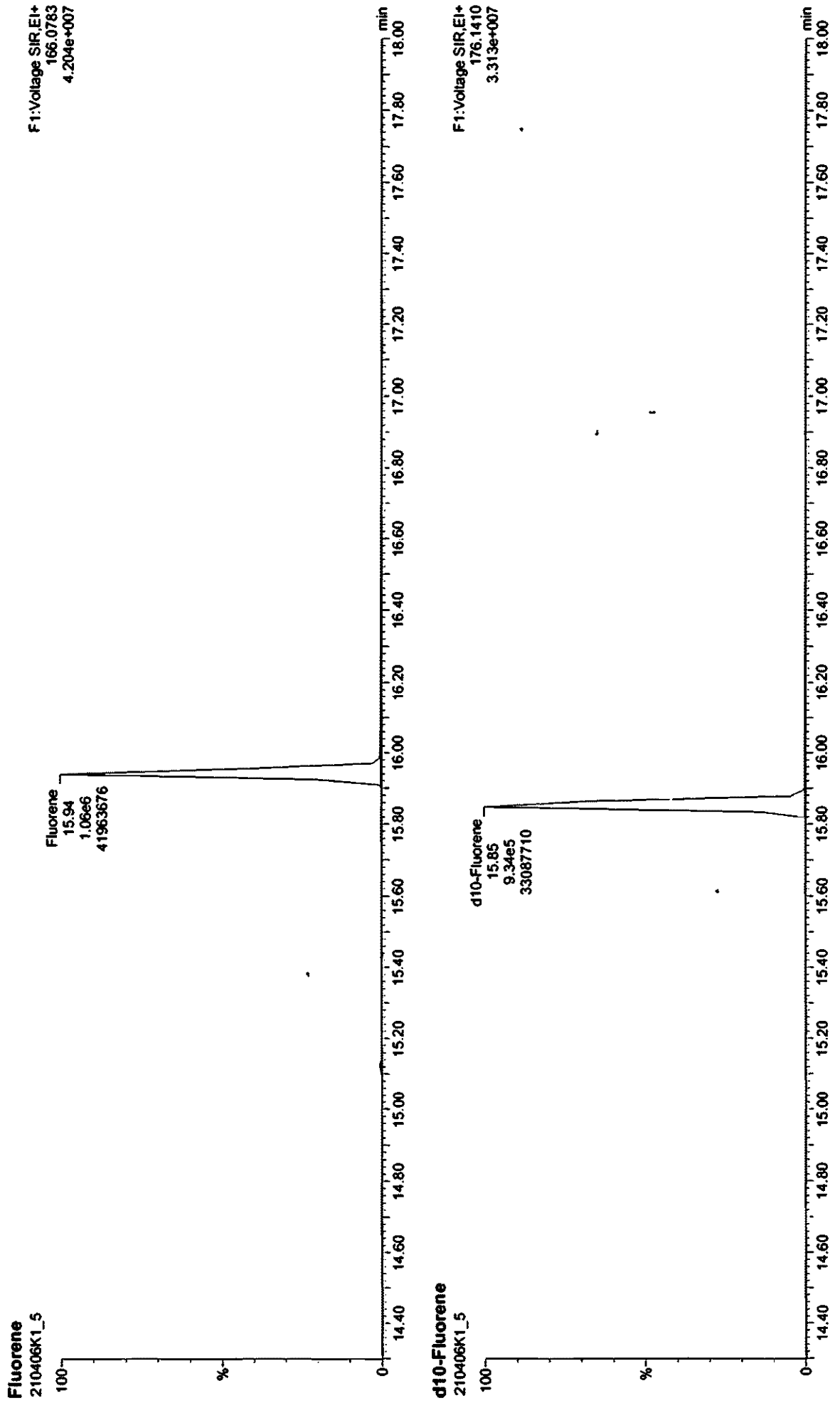


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5_429 CS3 20H2512, Description: 429 CS3 20H2512

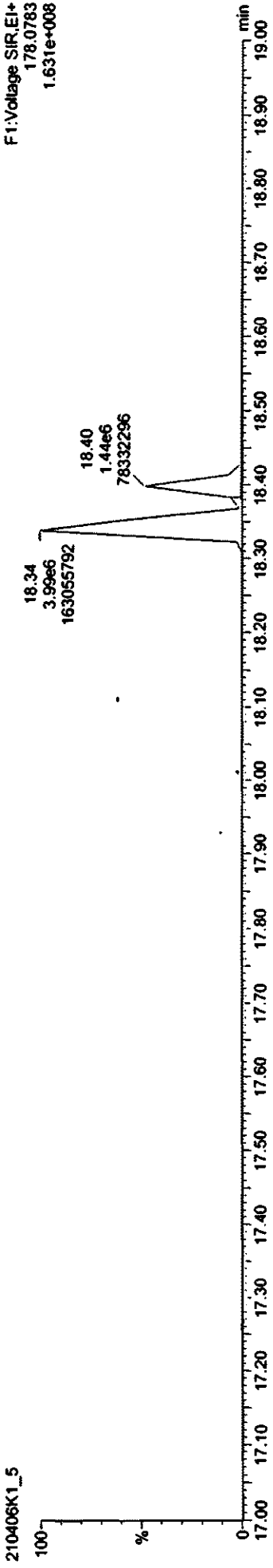


Dataset: Untitled

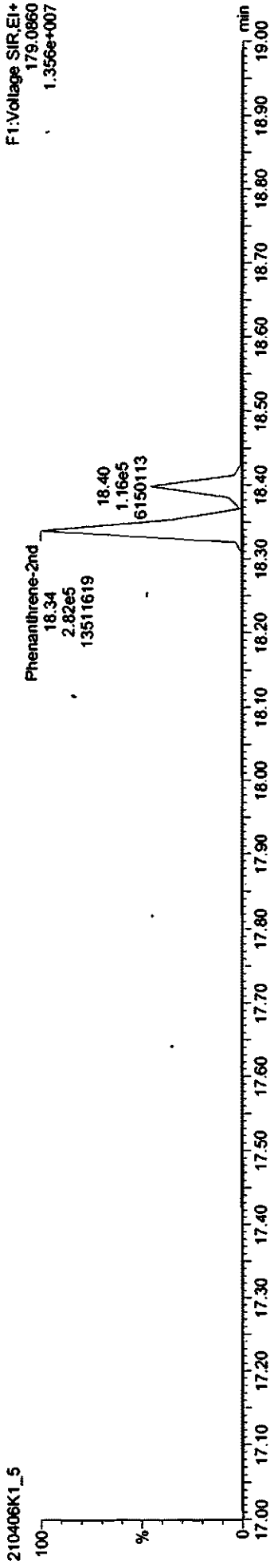
Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

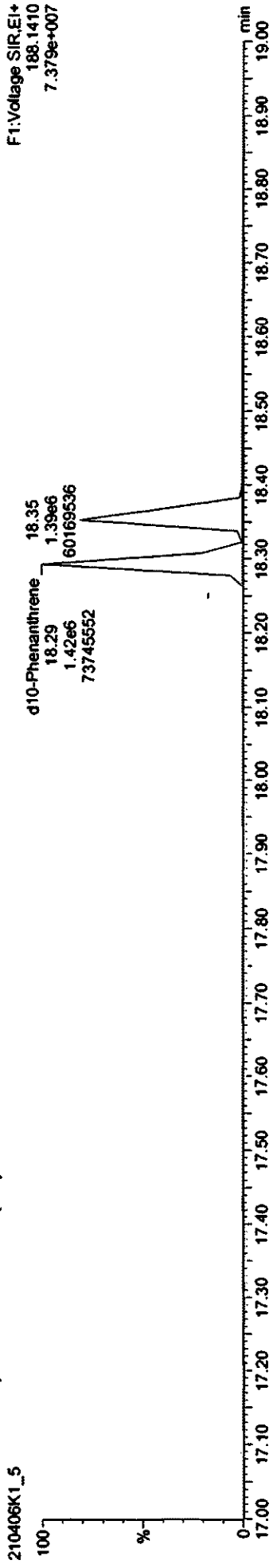
Phenanthrene; Anthrecene



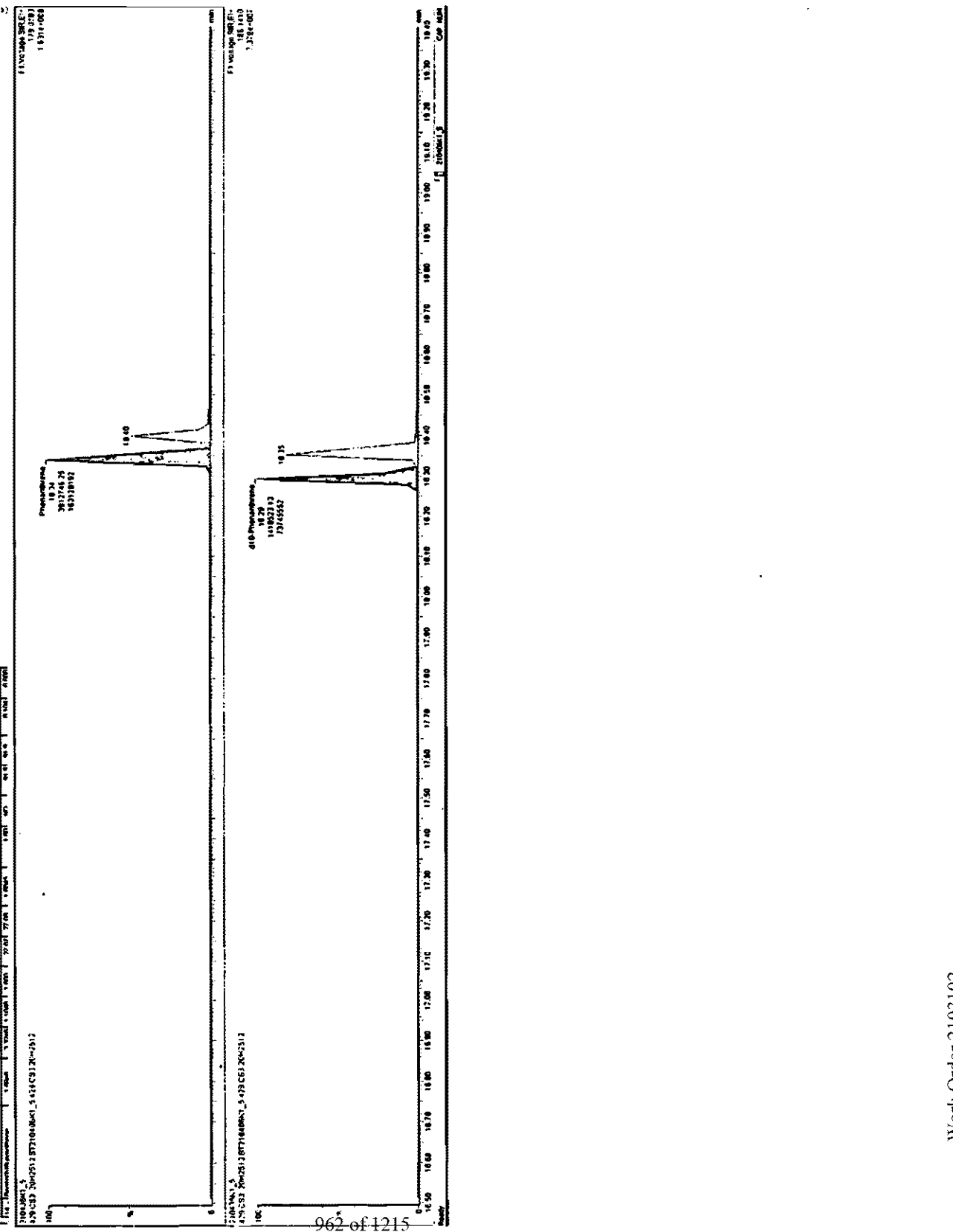
Phenanthrene-2nd



d10-Phenanthrene; d10-Anthrecene (AS)



| Retention Time (min) | Area | Height | Width | Resolution | Signal-to-Noise | Integration Quality | Peak Label |
|----------------------|--------|--------|-------|------------|-----------------|---------------------|------------|
| 10.35 | 120000 | 1500 | 0.15 | 1.00 | 100 | 1.00 | Peak 1 |
| 10.40 | 10000 | 100 | 0.10 | 1.00 | 10 | 1.00 | Peak 2 |



| RT | Peak | Area | Height | RT | Height | RT | Height | Area | Area% | Height | Area | Area% | Height |
|-------|--------------|------|--------|-------|--------|-------|--------|------|-------|--------|------|-------|--------|
| 1.10 | Methane | 4866 | 1776 | 1.07 | 1078 | 1.07 | 1078 | 1811 | 0.03 | 1.07 | 1811 | 0.03 | 1.07 |
| 1.45 | Ethane | 5463 | 1774 | 1.45 | 1078 | 1.45 | 1078 | 1811 | 0.03 | 1.45 | 1811 | 0.03 | 1.45 |
| 1.80 | Propane | 3146 | 1358 | 1.79 | 1078 | 1.79 | 1078 | 1811 | 0.03 | 1.79 | 1811 | 0.03 | 1.79 |
| 2.15 | Butane | 2748 | 1184 | 2.15 | 1078 | 2.15 | 1078 | 1811 | 0.03 | 2.15 | 1811 | 0.03 | 2.15 |
| 2.50 | Pentane | 1504 | 562 | 2.50 | 1078 | 2.50 | 1078 | 1811 | 0.03 | 2.50 | 1811 | 0.03 | 2.50 |
| 2.85 | Hexane | 1036 | 382 | 2.85 | 1078 | 2.85 | 1078 | 1811 | 0.03 | 2.85 | 1811 | 0.03 | 2.85 |
| 3.20 | Heptane | 709 | 261 | 3.20 | 1078 | 3.20 | 1078 | 1811 | 0.03 | 3.20 | 1811 | 0.03 | 3.20 |
| 3.55 | Octane | 498 | 181 | 3.55 | 1078 | 3.55 | 1078 | 1811 | 0.03 | 3.55 | 1811 | 0.03 | 3.55 |
| 3.90 | Nonane | 349 | 127 | 3.90 | 1078 | 3.90 | 1078 | 1811 | 0.03 | 3.90 | 1811 | 0.03 | 3.90 |
| 4.25 | Tentane | 247 | 90 | 4.25 | 1078 | 4.25 | 1078 | 1811 | 0.03 | 4.25 | 1811 | 0.03 | 4.25 |
| 4.60 | Undecane | 175 | 64 | 4.60 | 1078 | 4.60 | 1078 | 1811 | 0.03 | 4.60 | 1811 | 0.03 | 4.60 |
| 4.95 | Dodecane | 125 | 46 | 4.95 | 1078 | 4.95 | 1078 | 1811 | 0.03 | 4.95 | 1811 | 0.03 | 4.95 |
| 5.30 | Tridecane | 87 | 32 | 5.30 | 1078 | 5.30 | 1078 | 1811 | 0.03 | 5.30 | 1811 | 0.03 | 5.30 |
| 5.65 | Tetradecane | 61 | 23 | 5.65 | 1078 | 5.65 | 1078 | 1811 | 0.03 | 5.65 | 1811 | 0.03 | 5.65 |
| 6.00 | Pentadecane | 44 | 16 | 6.00 | 1078 | 6.00 | 1078 | 1811 | 0.03 | 6.00 | 1811 | 0.03 | 6.00 |
| 6.35 | Hexadecane | 32 | 12 | 6.35 | 1078 | 6.35 | 1078 | 1811 | 0.03 | 6.35 | 1811 | 0.03 | 6.35 |
| 6.70 | Heptadecane | 23 | 9 | 6.70 | 1078 | 6.70 | 1078 | 1811 | 0.03 | 6.70 | 1811 | 0.03 | 6.70 |
| 7.05 | Octadecane | 17 | 7 | 7.05 | 1078 | 7.05 | 1078 | 1811 | 0.03 | 7.05 | 1811 | 0.03 | 7.05 |
| 7.40 | Nonadecane | 12 | 5 | 7.40 | 1078 | 7.40 | 1078 | 1811 | 0.03 | 7.40 | 1811 | 0.03 | 7.40 |
| 7.75 | Eicosane | 9 | 4 | 7.75 | 1078 | 7.75 | 1078 | 1811 | 0.03 | 7.75 | 1811 | 0.03 | 7.75 |
| 8.10 | Heneicosane | 7 | 3 | 8.10 | 1078 | 8.10 | 1078 | 1811 | 0.03 | 8.10 | 1811 | 0.03 | 8.10 |
| 8.45 | Docosane | 5 | 2 | 8.45 | 1078 | 8.45 | 1078 | 1811 | 0.03 | 8.45 | 1811 | 0.03 | 8.45 |
| 8.80 | Tricosane | 4 | 2 | 8.80 | 1078 | 8.80 | 1078 | 1811 | 0.03 | 8.80 | 1811 | 0.03 | 8.80 |
| 9.15 | Tetracosane | 3 | 1 | 9.15 | 1078 | 9.15 | 1078 | 1811 | 0.03 | 9.15 | 1811 | 0.03 | 9.15 |
| 9.50 | Pentacosane | 2 | 1 | 9.50 | 1078 | 9.50 | 1078 | 1811 | 0.03 | 9.50 | 1811 | 0.03 | 9.50 |
| 9.85 | Hexacosane | 2 | 1 | 9.85 | 1078 | 9.85 | 1078 | 1811 | 0.03 | 9.85 | 1811 | 0.03 | 9.85 |
| 10.20 | Heptacosane | 1 | 1 | 10.20 | 1078 | 10.20 | 1078 | 1811 | 0.03 | 10.20 | 1811 | 0.03 | 10.20 |
| 10.55 | Octacosane | 1 | 1 | 10.55 | 1078 | 10.55 | 1078 | 1811 | 0.03 | 10.55 | 1811 | 0.03 | 10.55 |
| 10.90 | Nonacosane | 1 | 1 | 10.90 | 1078 | 10.90 | 1078 | 1811 | 0.03 | 10.90 | 1811 | 0.03 | 10.90 |
| 11.25 | triacontane | 1 | 1 | 11.25 | 1078 | 11.25 | 1078 | 1811 | 0.03 | 11.25 | 1811 | 0.03 | 11.25 |
| 11.60 | htriacontane | 1 | 1 | 11.60 | 1078 | 11.60 | 1078 | 1811 | 0.03 | 11.60 | 1811 | 0.03 | 11.60 |



| Peak | Area | Height | RT | Height | Area% | Height | Area | Area% | Height | Area | Area% | Height |
|------|------------------|--------|------------|----------|-------|--------|------|-------|--------|------|-------|--------|
| 1 | Aspirin | 18.48 | 1511518.83 | 1844887 | | | | | | | | |
| 2 | 318-Phenanthrene | 18.35 | 1186331.3 | 717455.1 | | | | | | | | |

Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

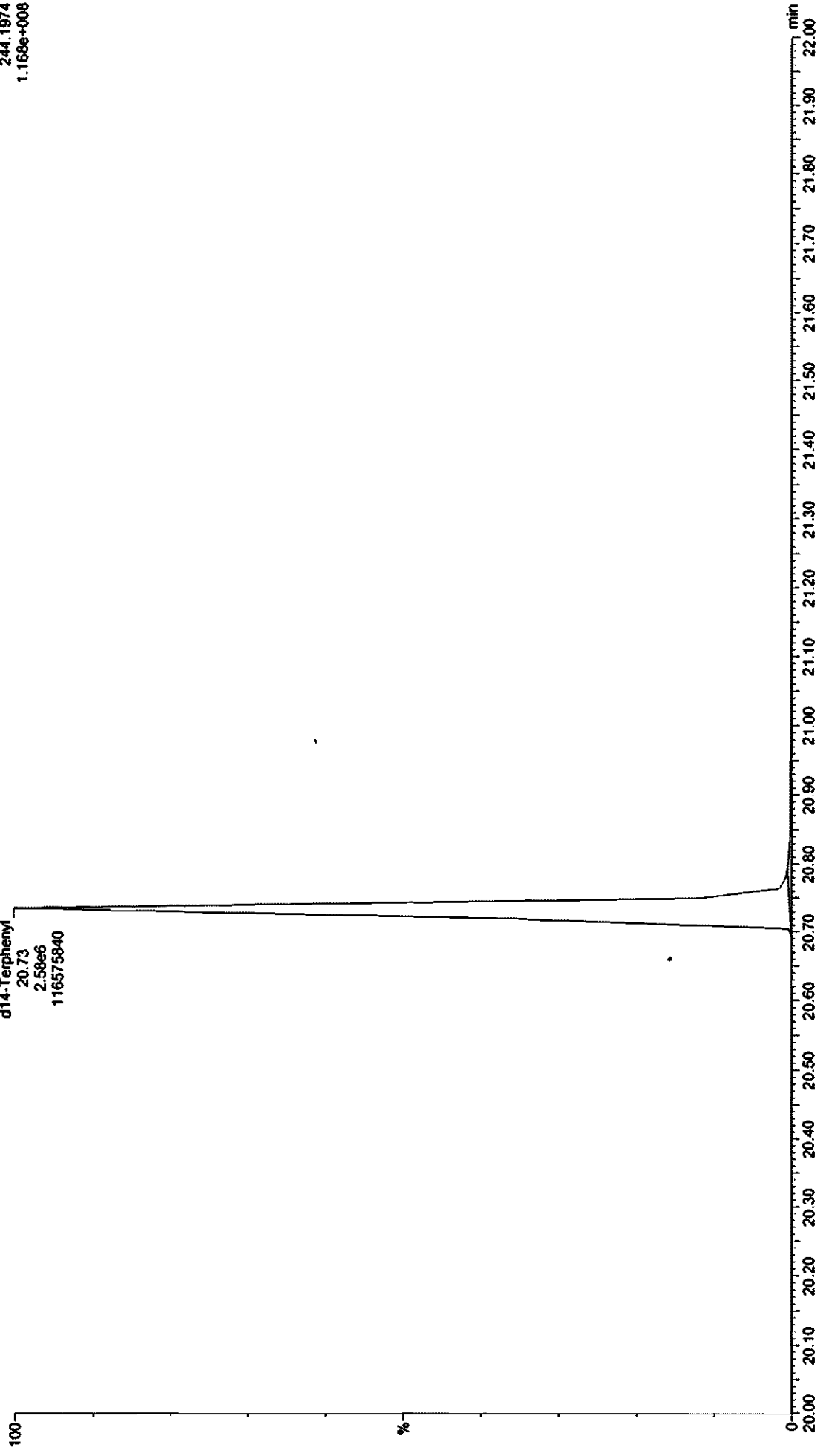
Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5_429 CS3 20H2512, Description: 429 CS3 20H2512

d14-Terphenyl (PS)

210406K1_5

d14-Terphenyl
20.73
2.58e6
116575840

F2:Voltage SIR,EI+
244.1974
1.168e+008



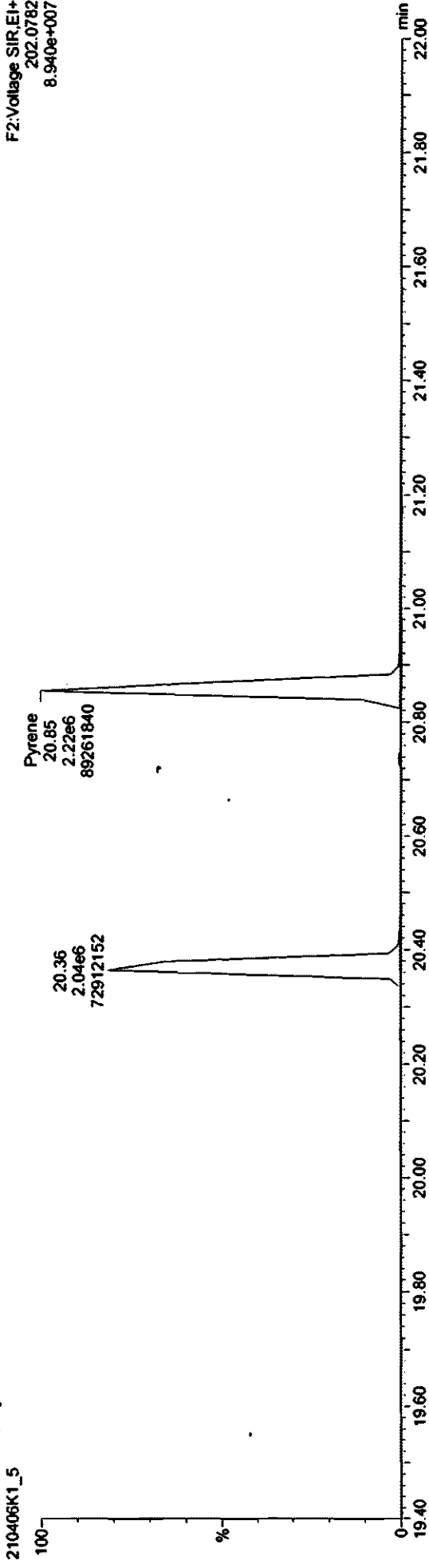
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

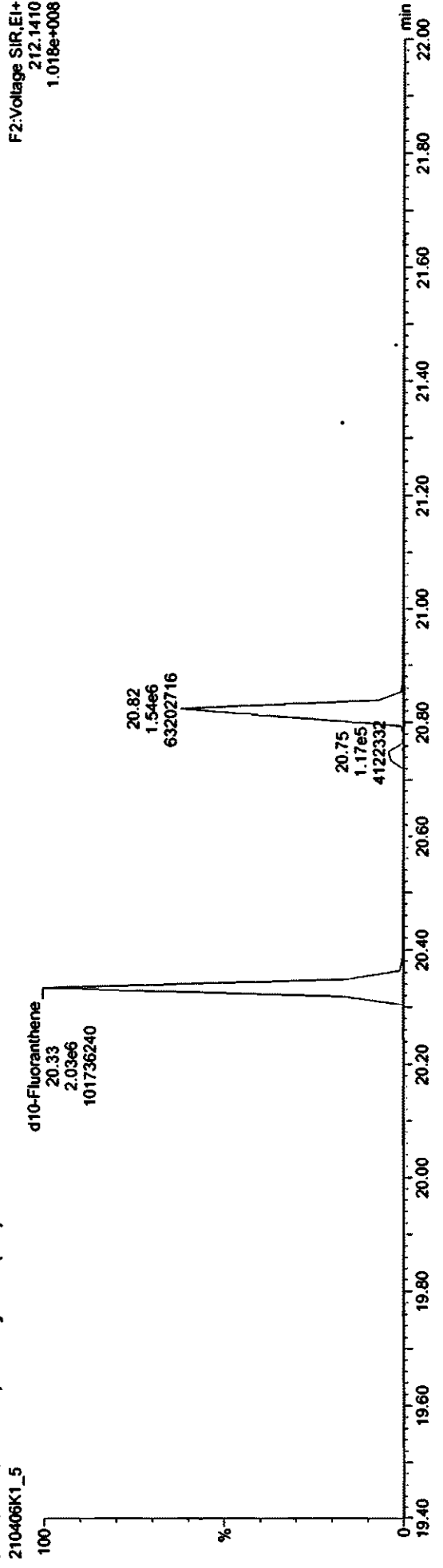
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
8.940e+007



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
1.018e+008



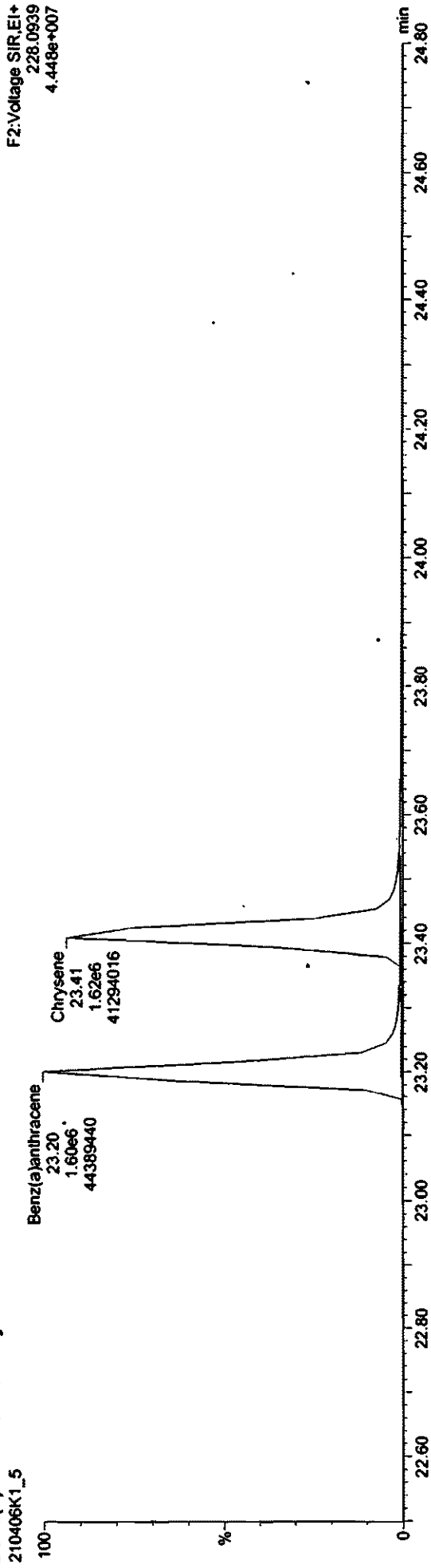
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

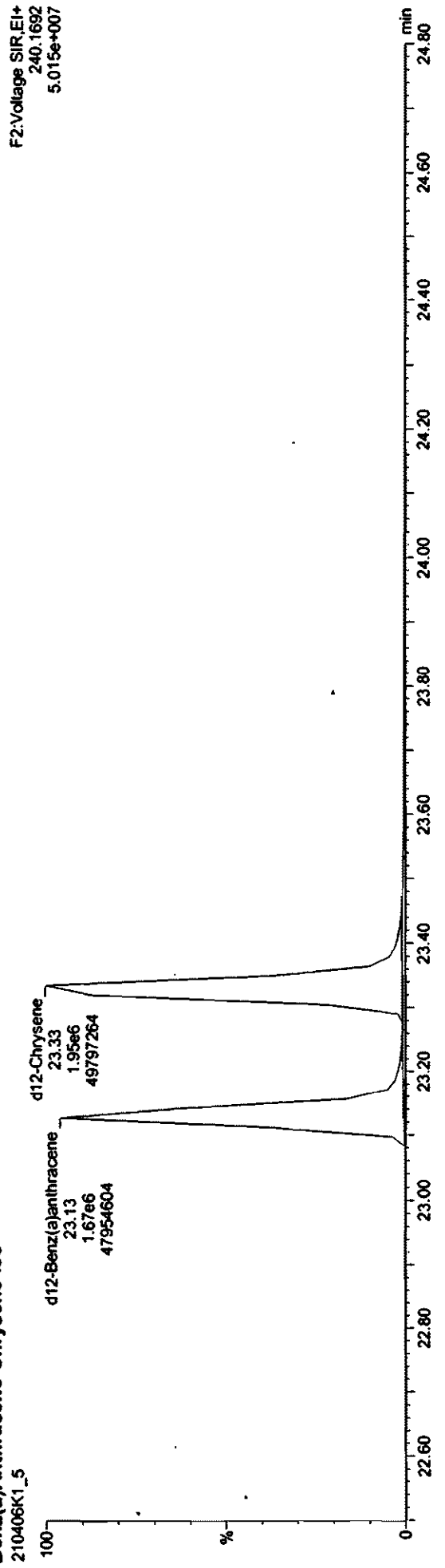
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
4.448e+007



Benz(a)Anthracene-Chrysene-Iso

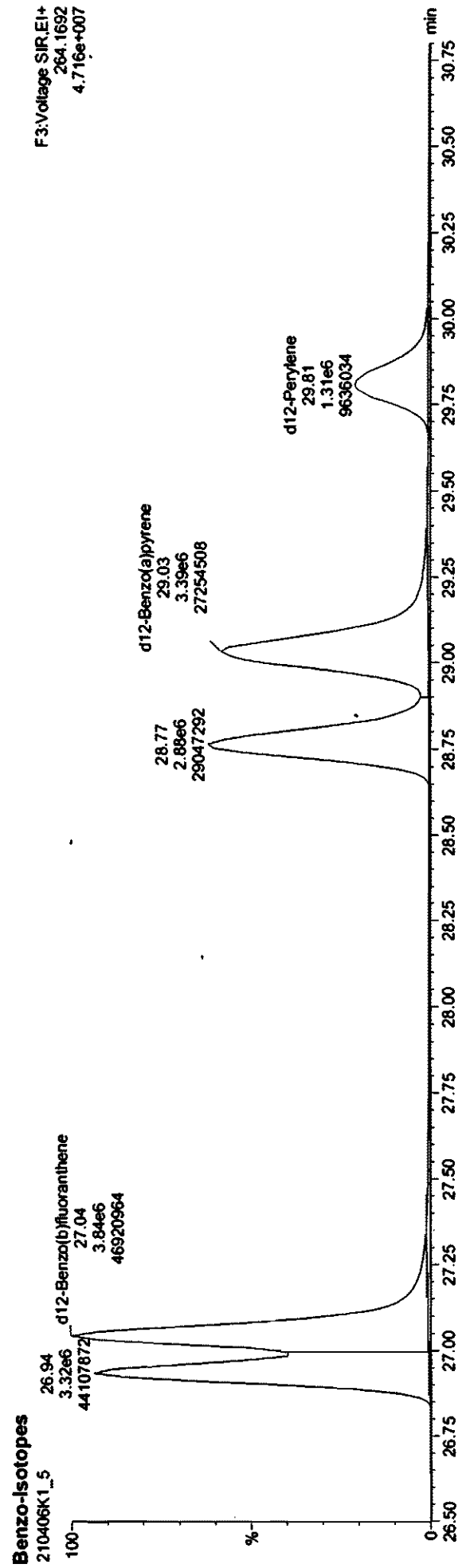
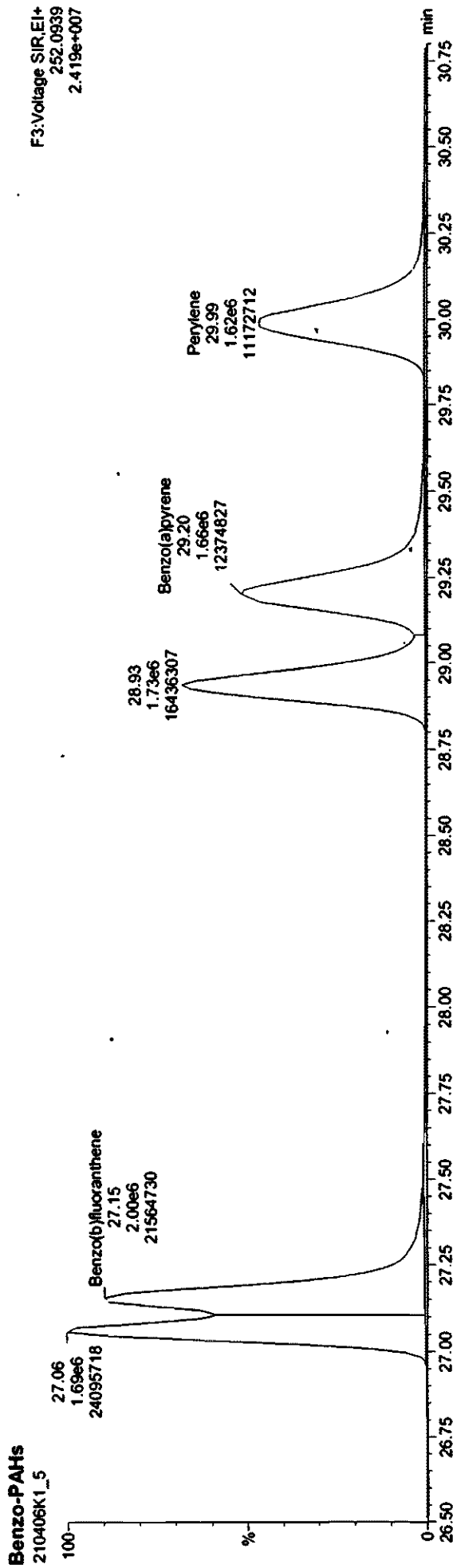
F2:Voltage SIR,EI+
240.1692
5.015e+007



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

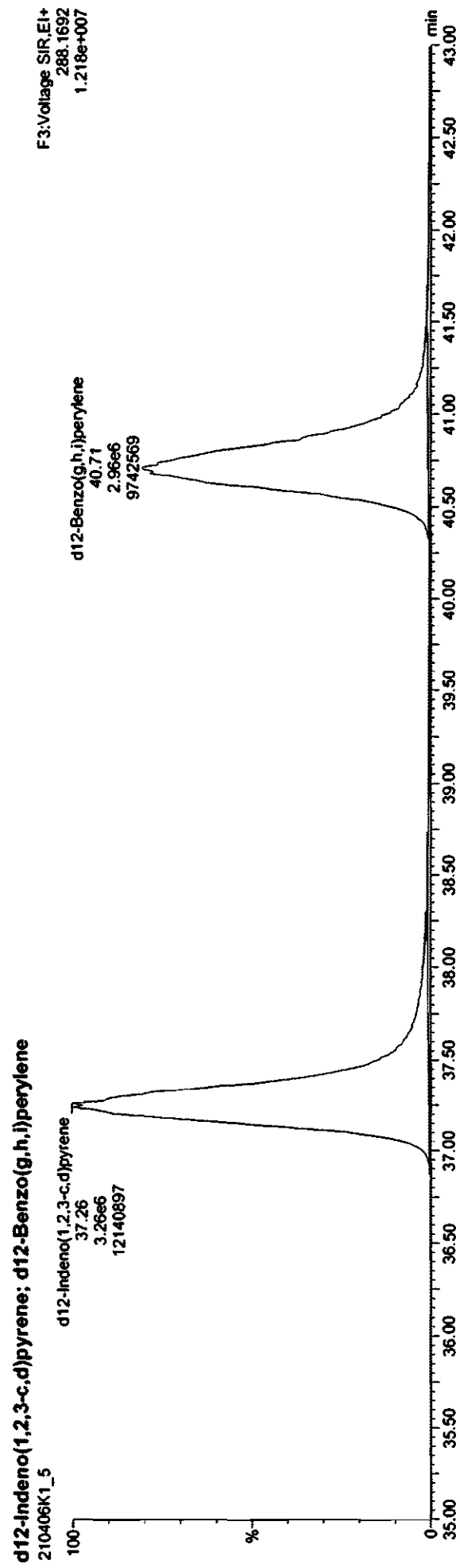
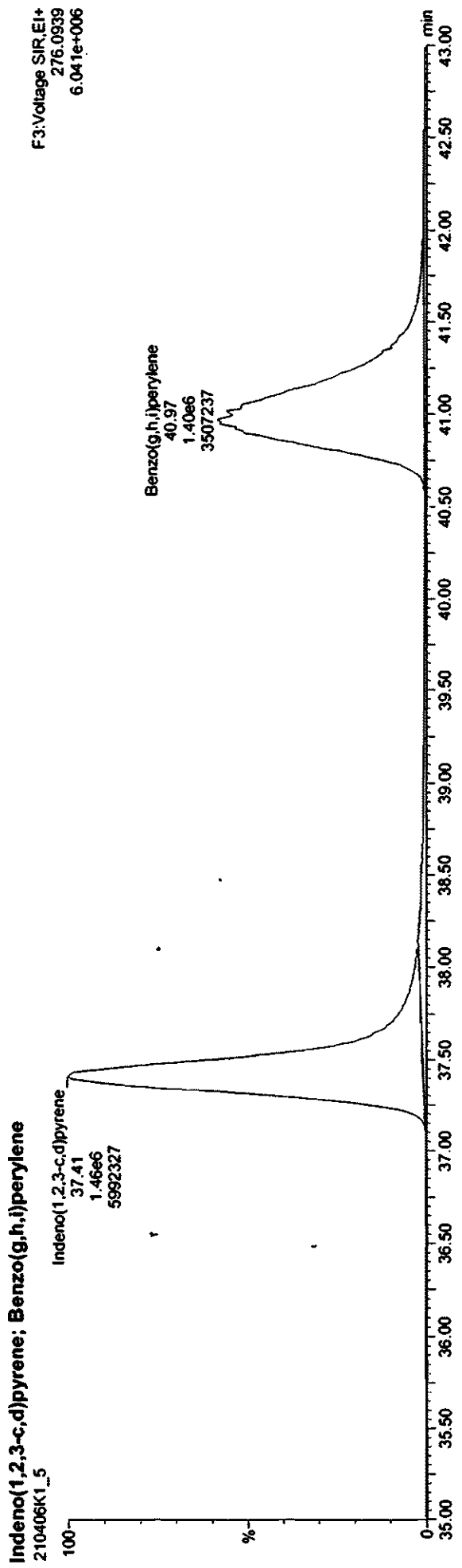
Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5_429 CS3 20H2512, Description: 429 CS3 20H2512



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512



Quantify Sample Report
Vista Analytical Laboratory

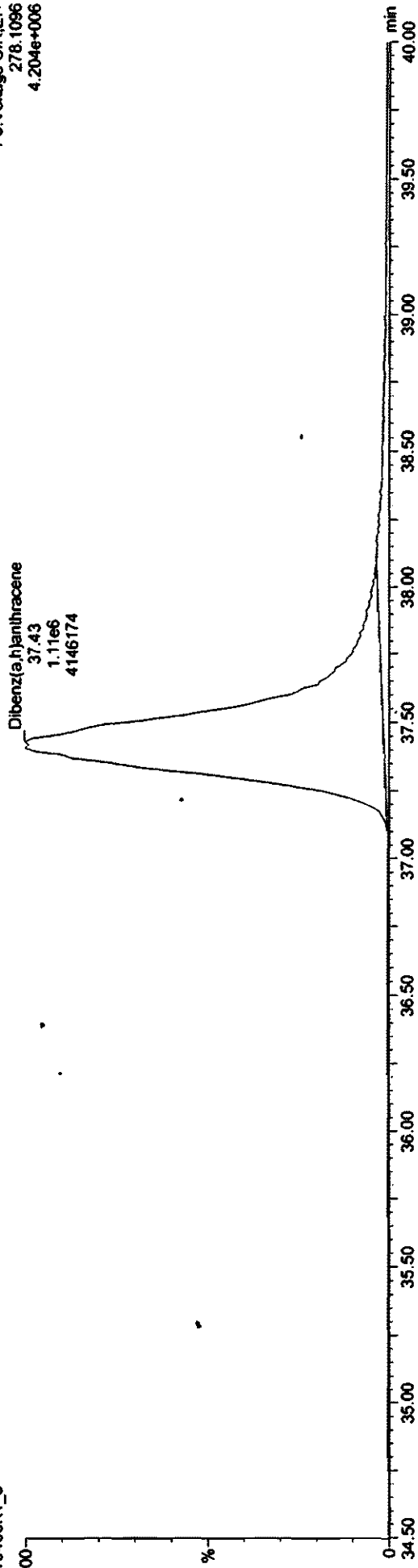
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 8:44:11 AM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 8:46:02 AM Pacific Daylight Time

Name: 210406K1_5, Date: 06-Apr-2021, Time: 14:22:15, ID: ST210406K1_5 429 CS3 20H2512, Description: 429 CS3 20H2512

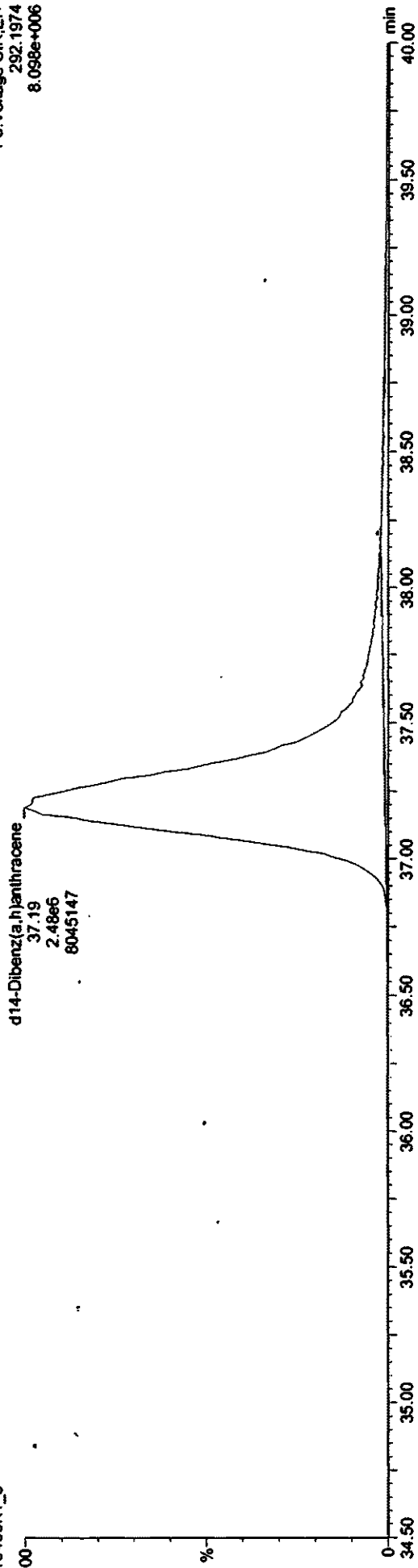
Dibenz(a,h)anthracene
210406K1_5

F3:Voltage SIR,EI+
278.1096
4.204e+006

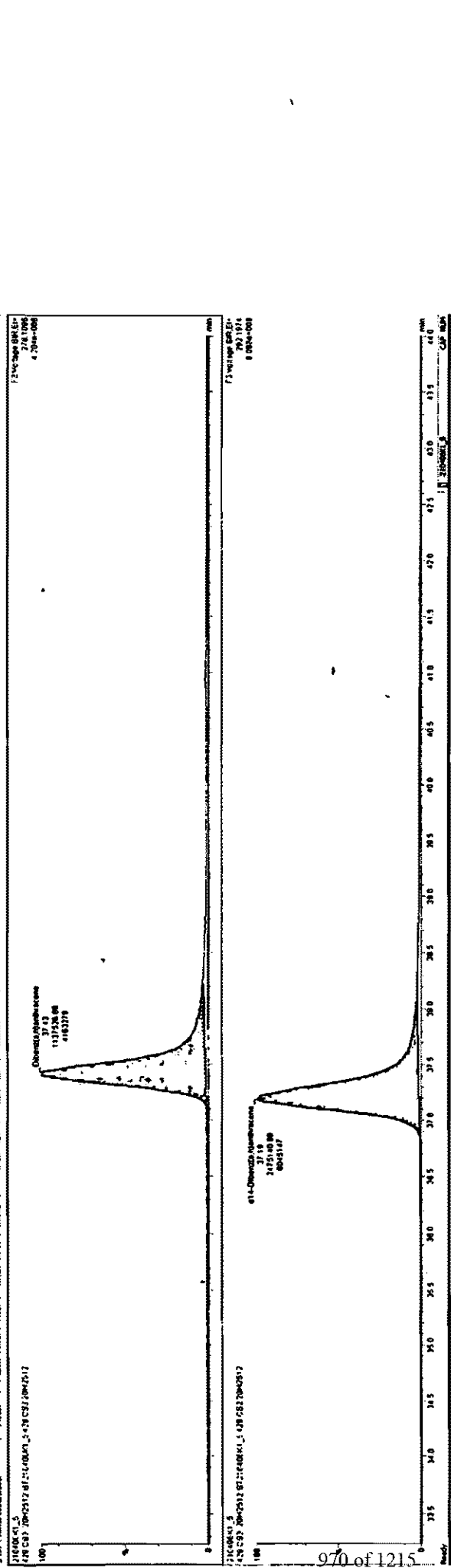


d14-Dibenz(a,h)anthracene
210406K1_5

F3:Voltage SIR,EI+
292.1974
8.098e+006



| RT | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|----|------|--------|-------|-------|---------|--------|------|--------|-------|-------|---------|--------|
| 14 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 15 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 16 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 17 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 18 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 19 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 20 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 21 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 22 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 23 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 24 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 25 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 26 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 27 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST21040612-1

Reviewed By: SJF 04/09/21

End Calibration ID: N/A

Initials & Date

| | <u>Beg.</u> | <u>End</u> |
|---|---|---|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> N/A | <input checked="" type="checkbox"/> N/A |
| Concentrations within criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| TCDD/TCDF Valleys <25% | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> |
| First and last eluters present? | <input checked="" type="checkbox"/> N/A | <input type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Verification Std. named correctly? (ST-Year-Month-Day-VG ID) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <u>H</u> | <u>J</u> |
| <u>Run Log:</u> | | |
| - Correct instrument listed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> N/A |
| - Samples within 12 hour clock? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N |
| - Bottle position verified? | <u>H</u> | <u>H</u> |

Mass resolution \geq

5k 6-8K 8K 10K

1614 1699 429 1613/1668/8280

Intergrated peaks display correctly? N/A

GC Break <20% N/A

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

(A) 1 miss did not centroid

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-2.qld

Last Altered: Wednesday, April 07, 2021 2:53:53 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:54:19 PM Pacific Daylight Time

4.7.2021
DF 04/08/21
B not used

Method: U:\VG11.PRO\MethDB\IPAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

| L# | Name | Resp | IS Resp | R/R | Vol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|-------------------------|--------|---------|--------|-------|---------|-------|---------|-------|---------|------|------|---------|
| 1 | Naphthalene | 1.05e7 | 3.70e6 | 1.16 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 244 | 97.5 | 0.0527 |
| 2 | Naphthalene-2nd | 1.14e6 | 3.70e6 | 0.128 | 1.000 | 10.16 | 10.16 | 1.006 | 1.006 | NO | 242 | 96.8 | 0.411 |
| 3 | 2-Methylnaphthalene | 2.71e6 | 2.05e6 | 1.38 | 1.000 | 11.60 | 11.62 | 0.794 | 0.796 | NO | 95.8 | 95.8 | 0.0430 |
| 4 | Acenaphthylene | 3.07e6 | 3.00e6 | 1.12 | 1.000 | 14.37 | 14.37 | 1.003 | 1.003 | NO | 91.6 | 91.6 | 0.0266 |
| 5 | Acenaphthene | 2.27e6 | 2.05e6 | 1.10 | 1.000 | 14.68 | 14.70 | 1.006 | 1.007 | NO | 100 | 100 | 0.0524 |
| 6 | Fluorene | 2.14e6 | 2.05e6 | 1.15 | 1.000 | 15.94 | 15.92 | 1.006 | 1.005 | NO | 90.5 | 90.5 | 0.0361 |
| 7 | Phenanthrene | 8.35e6 | 2.82e6 | 1.19 | 1.000 | 18.32 | 18.34 | 1.002 | 1.003 | NO | 249 | 99.5 | 40.4 |
| 8 | Phenanthrene-2nd | 2.95e5 | 2.82e6 | 0.0925 | 1.000 | 18.31 | 18.32 | 1.002 | 1.002 | NO | 113 | 45.2 | 0.224 |
| 9 | Anthracene | 3.04e6 | 2.82e6 | 1.09 | 1.000 | 18.38 | 18.38 | 1.005 | 1.006 | NO | 98.7 | 98.7 | 44.1 |
| 10 | Fluoranthene | 4.56e6 | 4.43e6 | 1.10 | 1.000 | 20.37 | 20.35 | 1.002 | 1.001 | NO | 93.5 | 93.5 | 0.0107 |
| 11 | Pyrene | 4.92e6 | 4.43e6 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 92.7 | 92.7 | 0.00981 |
| 12 | Benz(a)anthracene | 3.40e6 | 3.71e6 | 0.961 | 1.000 | 23.16 | 23.16 | 1.003 | 1.003 | NO | 95.4 | 95.4 | 0.0148 |
| 13 | Chrysene | 3.37e6 | 4.16e6 | 0.852 | 1.000 | 23.37 | 23.36 | 1.003 | 1.003 | NO | 94.9 | 94.9 | 0.0163 |
| 14 | Benzo(b)fluoranthene | 3.38e6 | 6.53e6 | 1.10 | 1.000 | 26.92 | 26.90 | 1.005 | 1.004 | NO | 93.7 | 93.7 | 0.0350 |
| 15 | Benzo(k)fluoranthene | 3.94e6 | 8.08e6 | 1.04 | 1.000 | 27.00 | 27.00 | 1.004 | 1.004 | NO | 94.0 | 94.0 | 0.0349 |
| 16 | Benzo(e)pyrene | 3.41e6 | 8.08e6 | 0.911 | 1.000 | 28.69 | 28.70 | 1.067 | 1.068 | NO | 92.5 | 92.5 | 0.0398 |
| 17 | Benzo(a)pyrene | 2.99e6 | 6.48e6 | 1.02 | 1.000 | 28.96 | 28.93 | 1.006 | 1.005 | NO | 90.7 | 90.7 | 0.0524 |
| 18 | Perylene | 2.98e6 | 6.48e6 | 0.987 | 1.000 | 29.70 | 29.65 | 1.031 | 1.030 | NO | 93.3 | 93.3 | 0.0539 |
| 19 | Indeno(1,2,3-c,d)pyrene | 2.28e6 | 5.28e6 | 0.915 | 1.000 | 36.76 | 36.74 | 1.007 | 1.006 | NO | 94.5 | 94.5 | 0.108 |
| 20 | Benzo(g,h,i)perylene | 2.44e6 | 5.58e6 | 0.940 | 1.000 | 40.07 | 40.01 | 1.009 | 1.008 | NO | 93.2 | 93.2 | 0.108 |
| 21 | Dibenz(a,h)anthracene | 2.06e6 | 4.46e6 | 0.948 | 1.000 | 36.67 | 36.59 | 1.011 | 1.009 | NO | 98.4 | 98.4 | 0.117 |
| 22 | d8-Naphthalene | 3.70e6 | 3.45e6 | 1.20 | 1.000 | 10.10 | 10.10 | 0.848 | 0.848 | NO | 89.0 | 89.0 | 0.00901 |
| 23 | d8-Acenaphthylene | 3.00e6 | 3.45e6 | 0.905 | 1.000 | 14.31 | 14.32 | 1.201 | 1.203 | NO | 96.1 | 96.1 | 0.0179 |
| 24 | d10-Acenaphthene | 2.05e6 | 3.45e6 | 0.594 | 1.000 | 14.60 | 14.60 | 1.226 | 1.226 | NO | 100 | 100 | 0.0129 |
| 25 | d10-Fluorene | 2.05e6 | 3.45e6 | 0.563 | 1.000 | 15.84 | 15.85 | 1.330 | 1.331 | NO | 106 | 106 | 0.0127 |
| 26 | d10-Phenanthrene | 2.82e6 | 3.45e6 | 0.735 | 1.000 | 18.26 | 18.28 | 1.533 | 1.535 | NO | 111 | 111 | 0.0120 |
| 27 | d10-Fluoranthene | 4.43e6 | 3.45e6 | 1.29 | 1.000 | 20.33 | 20.32 | 0.977 | 0.976 | NO | 99.9 | 99.9 | 0.00614 |
| 28 | d12-Benz(a)anthracene | 3.71e6 | 3.45e6 | 0.900 | 1.000 | 23.11 | 23.10 | 1.110 | 1.110 | NO | 119 | 119 | 0.0136 |
| 29 | d12-Chrysene | 4.16e6 | 3.45e6 | 1.02 | 1.000 | 23.30 | 23.29 | 1.120 | 1.119 | NO | 118 | 118 | 0.0120 |
| 30 | d12-Benzofluoranthene | 6.53e6 | 2.54e6 | 1.18 | 1.000 | 26.74 | 26.79 | 0.907 | 0.909 | NO | 217 | 109 | 0.0578 |
| 31 | d12-Benzofluoranthene | 8.08e6 | 2.54e6 | 1.50 | 1.000 | 26.85 | 26.89 | 0.911 | 0.912 | NO | 211 | 106 | 0.0454 |

Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210406K2\210406K2-2.qld

Last Altered: Wednesday, April 07, 2021 2:53:53 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:54:19 PM Pacific Daylight Time

Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

| # | Name | Resp | IS Resp | RFE | w/vol | Pred RT | RT | Pred RRT | RRT | Check R | Conc | %Rec | DI |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|------|---------|
| 32 | d12-Benz(a)pyrene | 6.48e6 | 2.54e6 | 1.24 | 1.000 | 28.73 | 28.79 | 0.975 | 0.977 | NO | 206 | 103 | 0.0552 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 5.28e6 | 2.54e6 | 1.02 | 1.000 | 36.75 | 36.51 | 1.247 | 1.239 | NO | 204 | 102 | 0.0763 |
| 34 | d12-Benzof(g,h,i)perylene | 5.59e6 | 2.54e6 | 1.00 | 1.000 | 40.14 | 39.70 | 1.362 | 1.347 | YES | 218 | 109 | 0.0774 |
| 35 | d14-Dibenz(a,h)anthracene | 4.46e6 | 2.54e6 | 0.765 | 1.000 | 36.52 | 36.27 | 1.239 | 1.231 | NO | 229 | 115 | 0.0914 |
| 36 | d10-Anthracene | 2.62e6 | 2.54e6 | 0.989 | 1.000 | 18.35 | 18.34 | 1.541 | 1.540 | NO | 104 | 104 | 0.0312 |
| 37 | d14-Terphenyl | 6.15e6 | 4.43e6 | 0.576 | 1.000 | 20.69 | 20.70 | 1.018 | 1.019 | NO | 241 | 120 | 0.00643 |
| 38 | d12-Benzof(e)pyrene | 5.82e6 | 8.08e6 | 0.738 | 1.000 | 28.50 | 28.53 | 1.060 | 1.061 | NO | 195 | 97.7 | 0.0470 |
| 39 | d10-1-Methylnaphthalene | 2.83e6 | 2.83e6 | 1.00 | 1.000 | 11.93 | 11.91 | 1.000 | 1.000 | NO | 100 | 100 | 0.0108 |
| 40 | d10-Pyrene | 3.45e6 | 3.45e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 100 | 100 | 0.00789 |
| 41 | d12-Perylene | 2.54e6 | 2.54e6 | 1.00 | 1.000 | 29.59 | 29.47 | 1.000 | 1.000 | NO | 100 | 100 | 0.0683 |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory VG-11

Dataset: Untitled

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Printed: Wednesday, April 07, 2021 2:51:28 PM Pacific Daylight Time

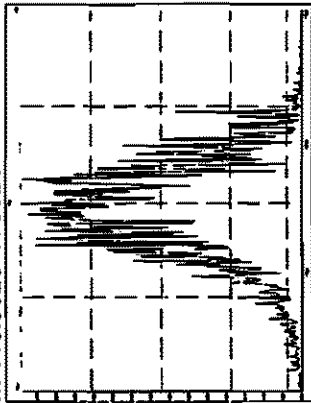
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Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Compound name: Naphthalene

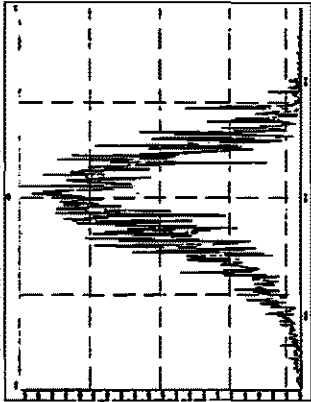
| Name | ID | Sample | Acq. Date | Acq. Time |
|----------------|-----------------------------------|--------|-----------|-----------|
| 1 210406K2_1 | SOLVENT BLANK | | 07-Apr-21 | 02:09:07 |
| 2 210406K2_2 | ST210406K2_1 429 CS3 20H2512 | | 07-Apr-21 | 02:54:13 |
| 3 210406K2_3 | SOLVENT BLANK | | 07-Apr-21 | 03:41:06 |
| 4 210406K2_4 | 2103102-01 21-0883 Inlet 1 1 | | 07-Apr-21 | 04:27:58 |
| 5 210406K2_5 | 2103102-01@25X 21-0883 Inlet 1 1 | | 07-Apr-21 | 05:14:52 |
| 6 210406K2_6 | 2103102-03 21-0883 Inlet 3 1 | | 07-Apr-21 | 06:01:47 |
| 7 210406K2_7 | 2103102-03@25X 21-0883 Inlet 3 1 | | 07-Apr-21 | 06:48:41 |
| 8 210406K2_8 | 2103102-02@25X 21-0883 Inlet 2 1 | | 07-Apr-21 | 07:35:35 |
| 9 210406K2_9 | 2103102-04@25X 21-0883 Outlet 1 1 | | 07-Apr-21 | 08:22:29 |
| 10 210406K2_10 | 2103102-05@25X 21-0883 Outlet 2 1 | | 07-Apr-21 | 09:09:23 |
| 11 210406K2_11 | 2103102-06@25X 21-0883 Outlet 3 1 | | 07-Apr-21 | 09:56:17 |
| 12 210406K2_12 | 2103102-02@100X 21-0883 Inlet 2 1 | | 07-Apr-21 | 10:43:24 |
| 13 210406K2_13 | 2103102-03@100X 21-0883 Inlet 3 1 | | 07-Apr-21 | 11:32:11 |
| 14 210406K2_14 | 2103102-02@250X 21-0883 Inlet 2 1 | | 07-Apr-21 | 12:17:18 |
| 15 210406K2_15 | 2103102-01@250X 21-0883 Inlet 1 1 | | 07-Apr-21 | 13:15:56 |
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Printed: Wednesday, April 07, 2021 02:09:06 Pacific Daylight Time

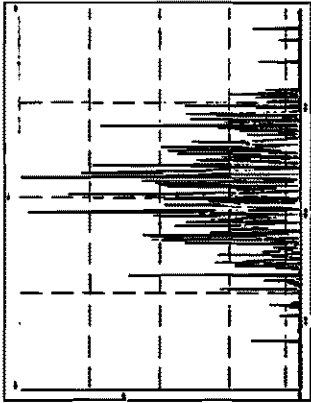
M 118.9920 R 9526



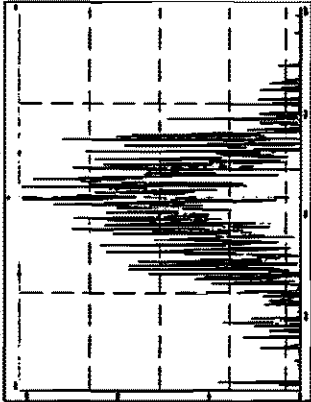
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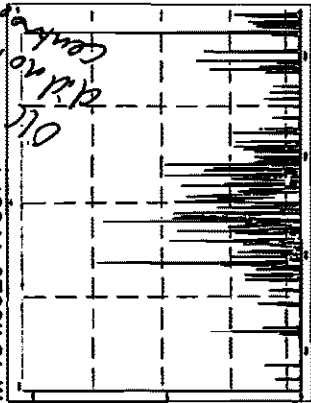
M 142.9920 R 170453



M 149.9904 R 19760



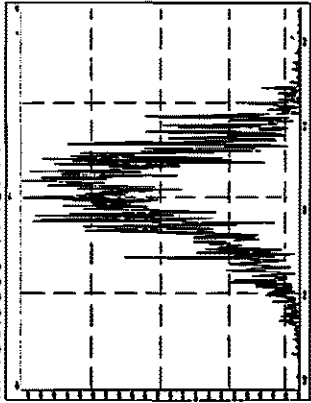
M 154.9920 R 5374



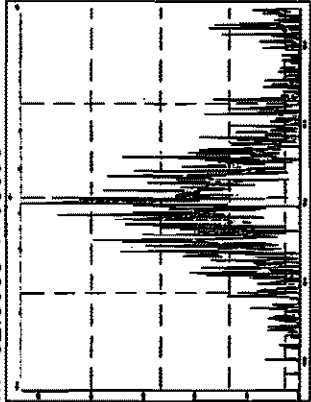
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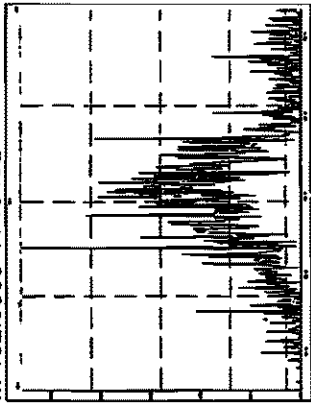
M 180.9888 R 13714



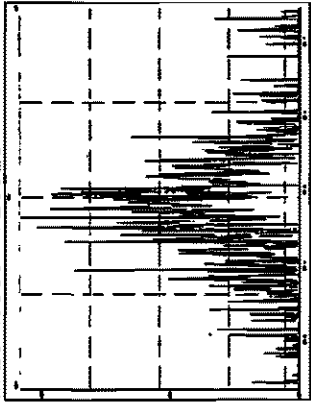
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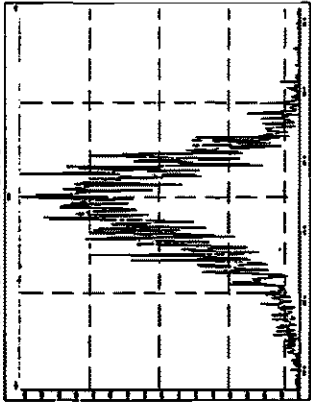
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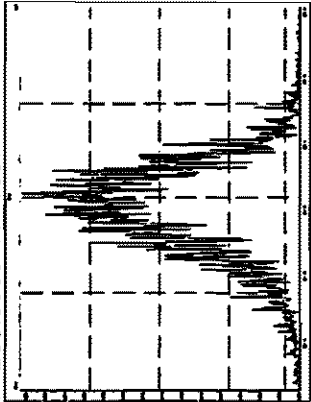
M 204.9888 R 28928



M 218.9856 R 10958



M 230.9856 R 11687

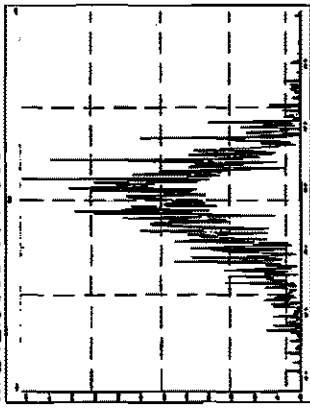


Resolution Check Report

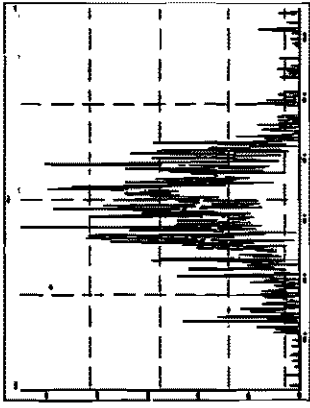
MassLynx 4.1 SCN815

Printed: Wednesday, April 07, 2021 02:09:06 Pacific Daylight Time

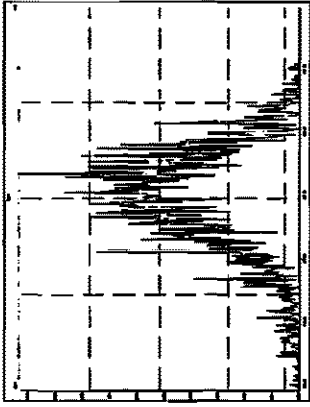
M 242.9856 R 14359



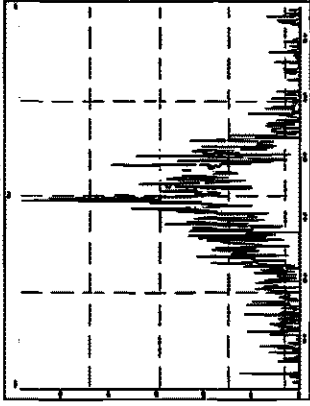
M 254.9856 R 17858



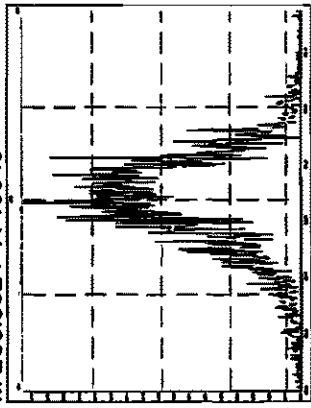
M 242.9856 R 11627



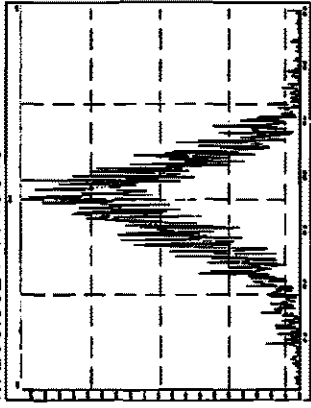
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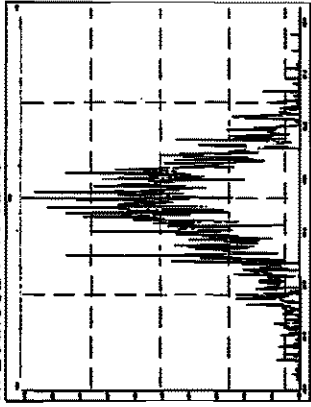
M 268.9824 R 10949



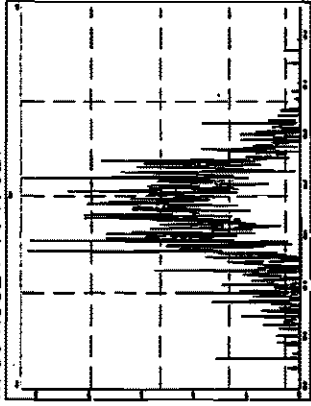
M 280.9824 R 10649



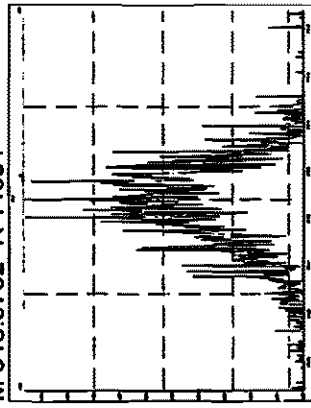
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M 304.9824 R 17027



M 318.9792 R 14034

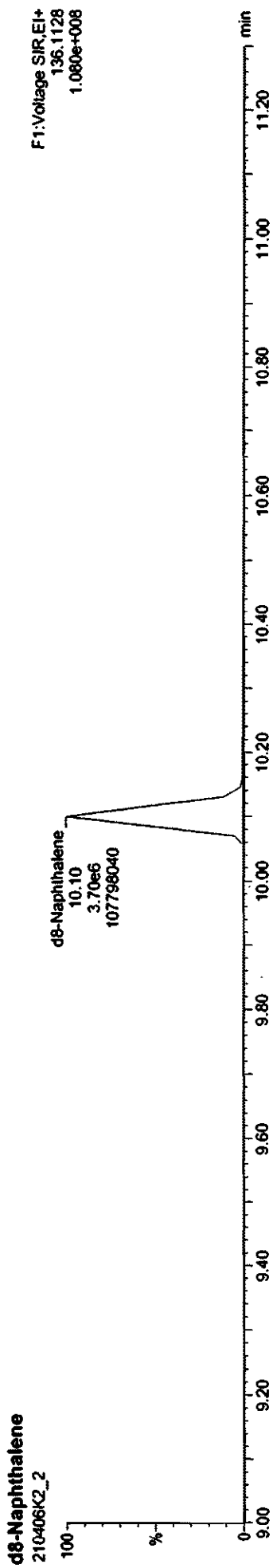
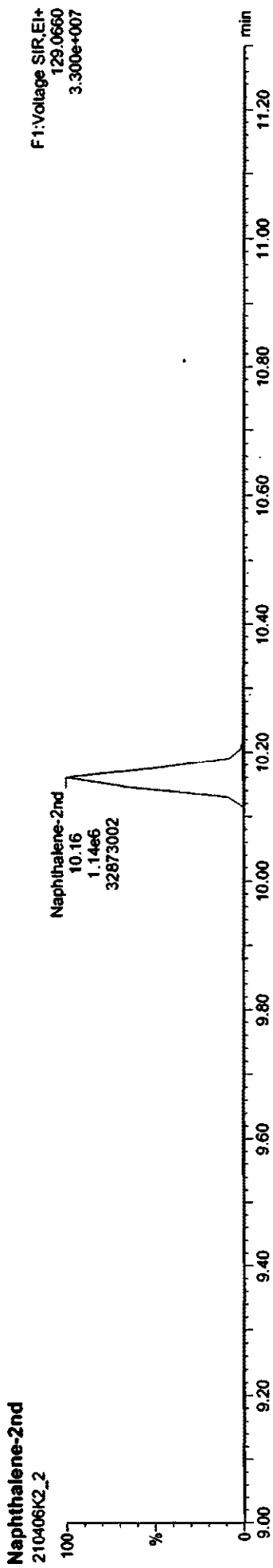
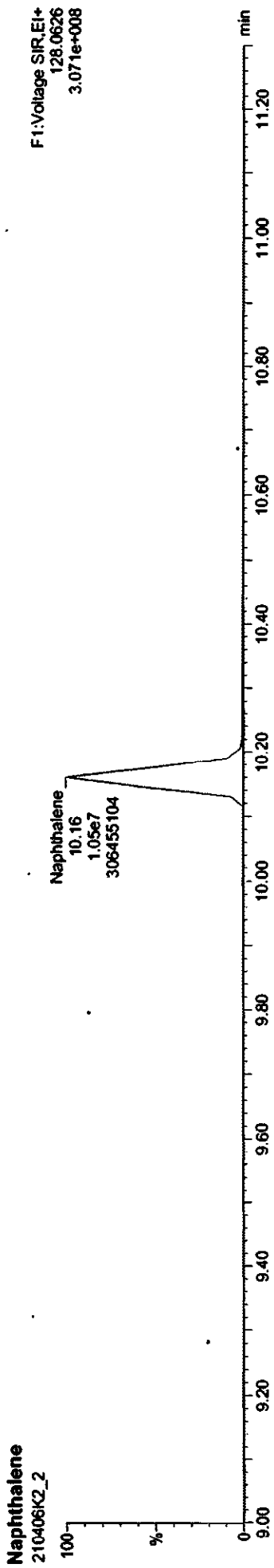


Vista Analytical Laboratory

Dataset: Untitled

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Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

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Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512



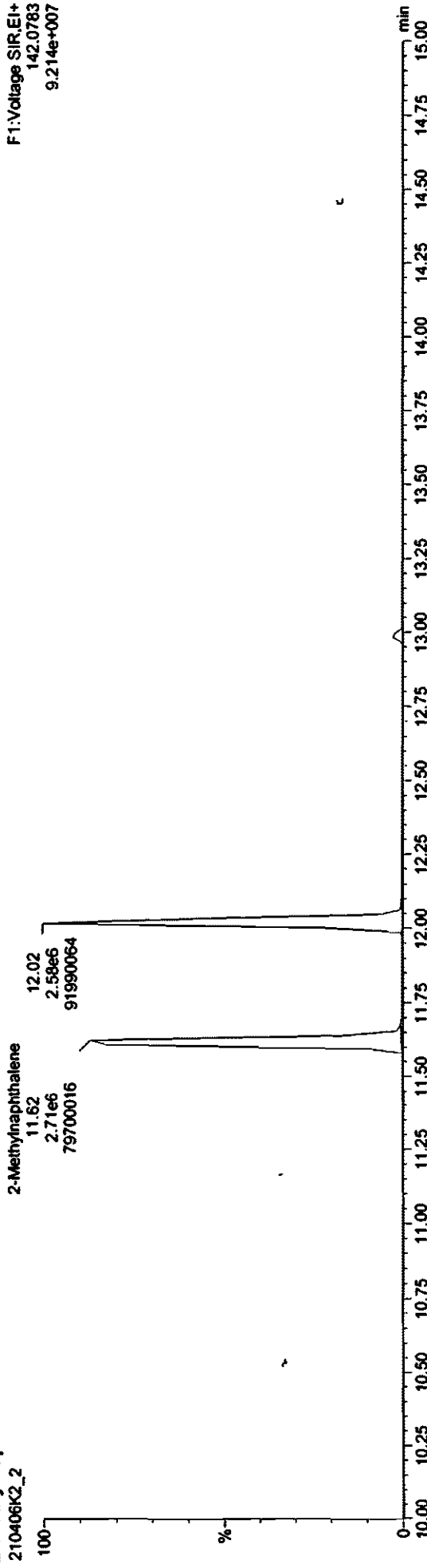
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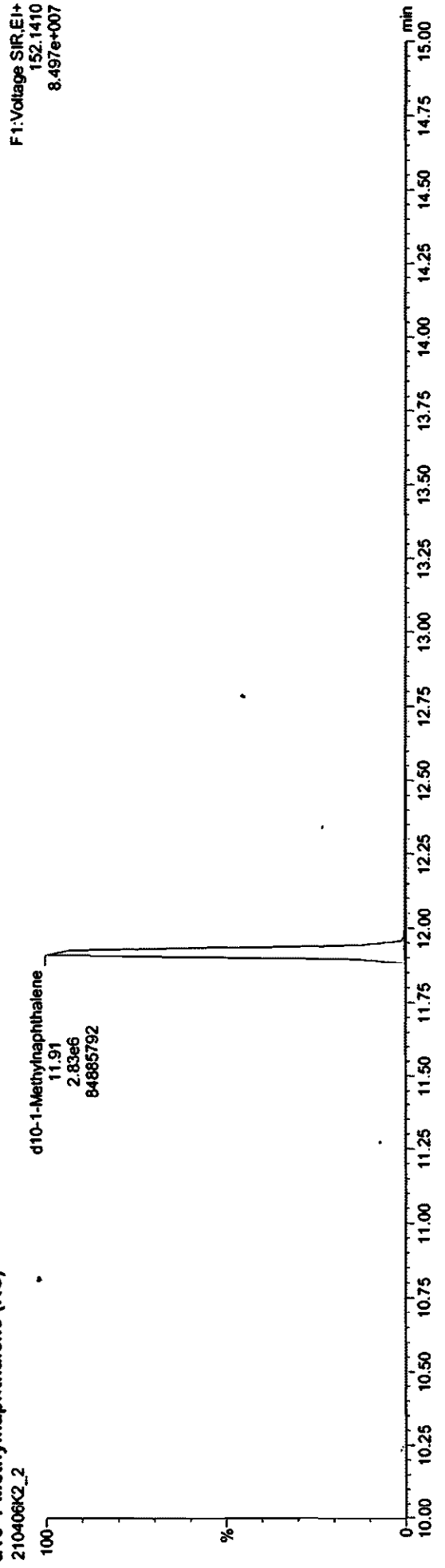
2-Methylnaphthalene

F1:Voltage SIR,EI+
142.0783
9.214e+007



d10-1-Methylnaphthalene (RS)

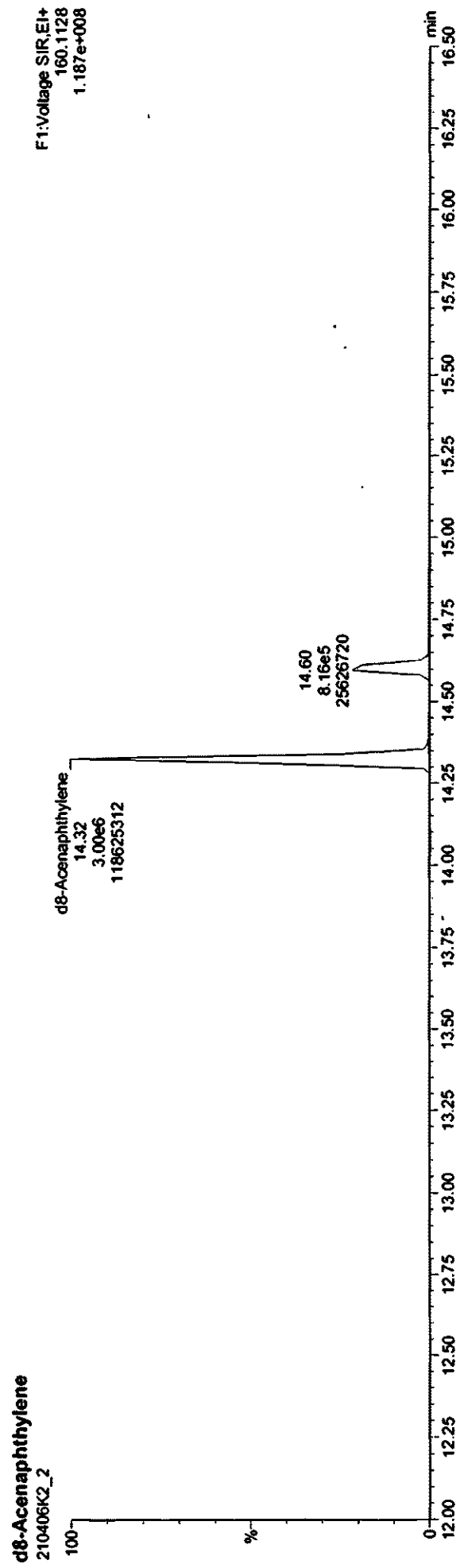
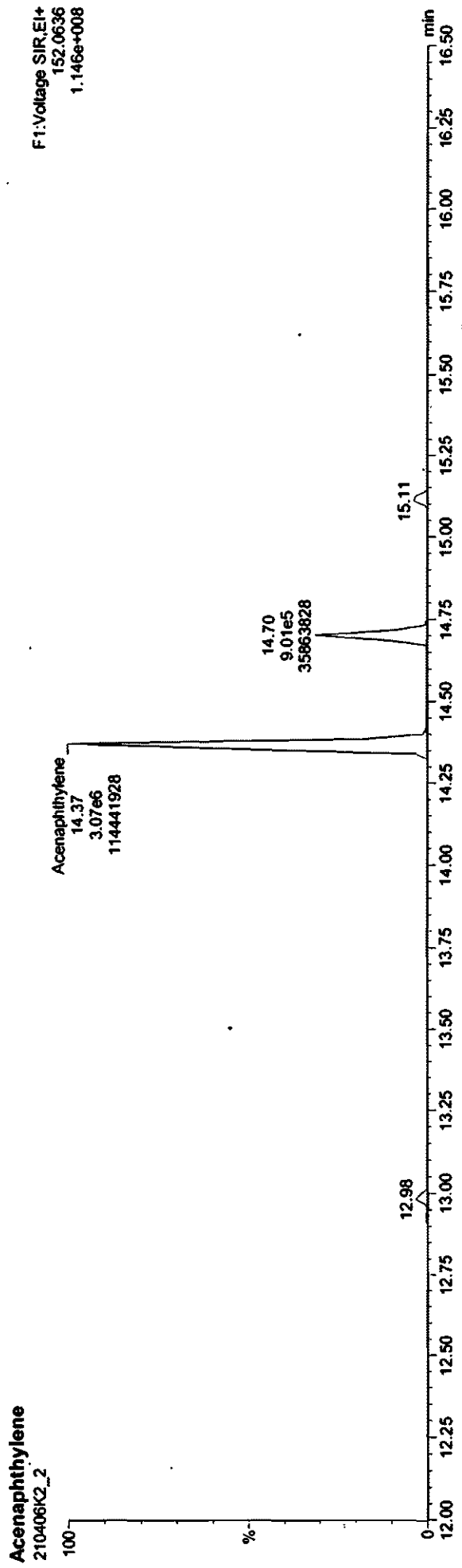
F1:Voltage SIR,EI+
152.1410
8.497e+007



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

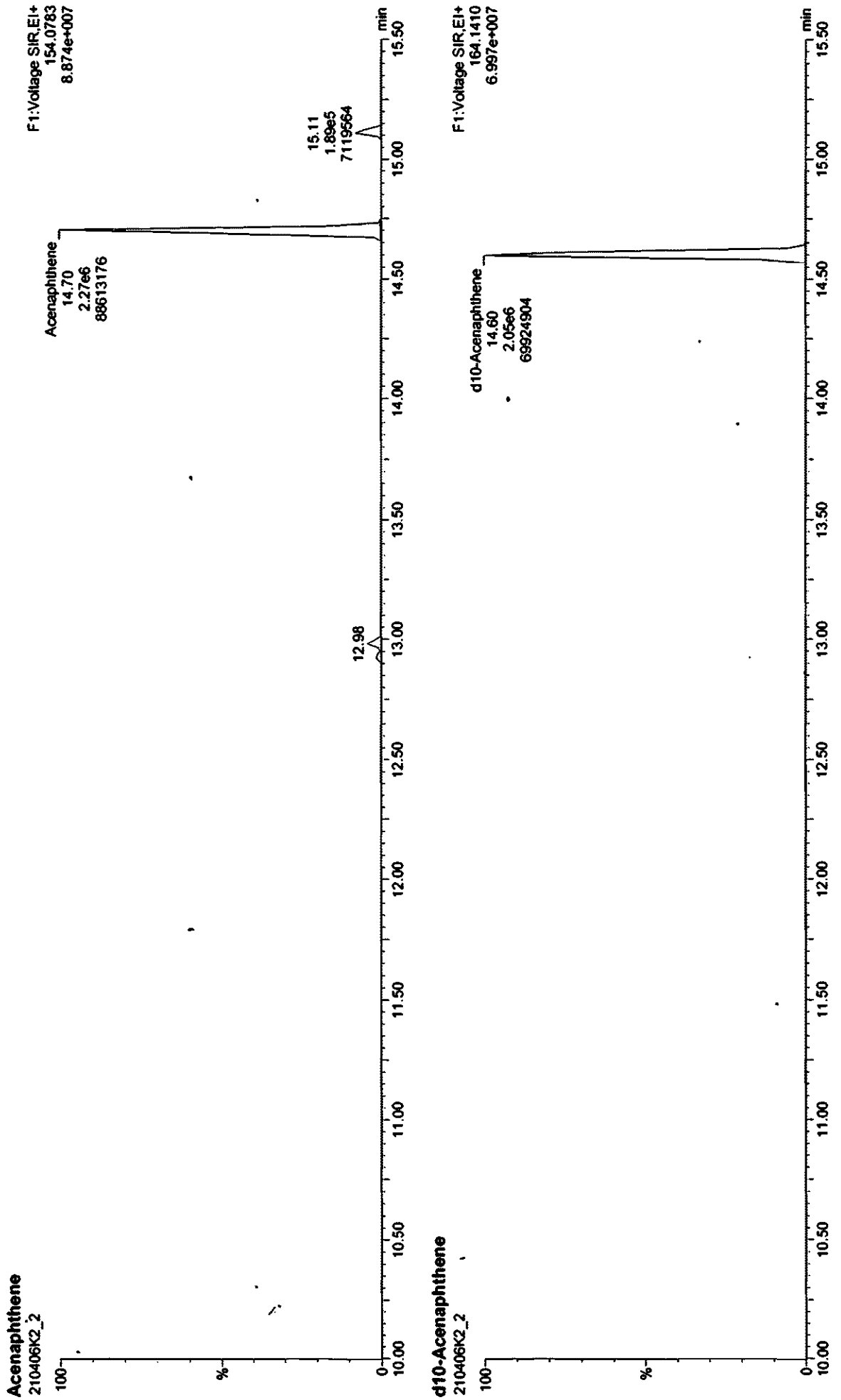


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
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Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

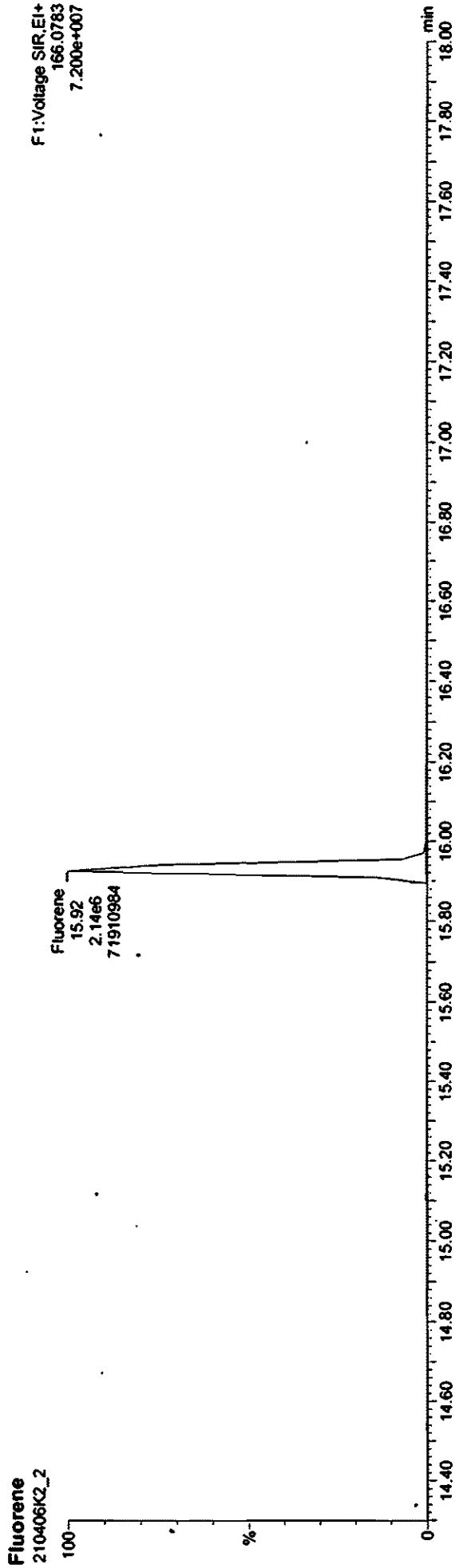


Quantify Sample Report
Vista Analytical Laboratory

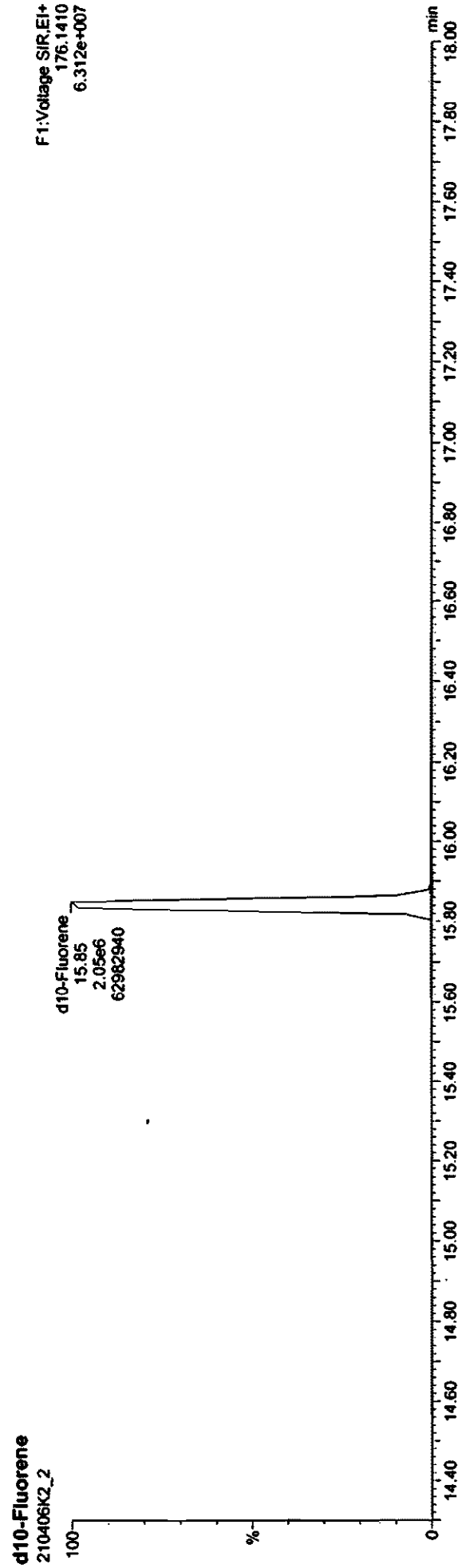
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981 of 1215



Dataset: Untitled

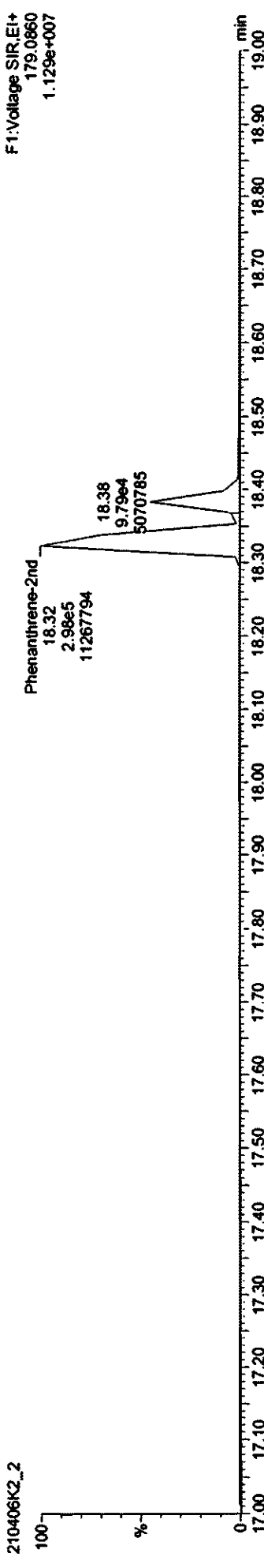
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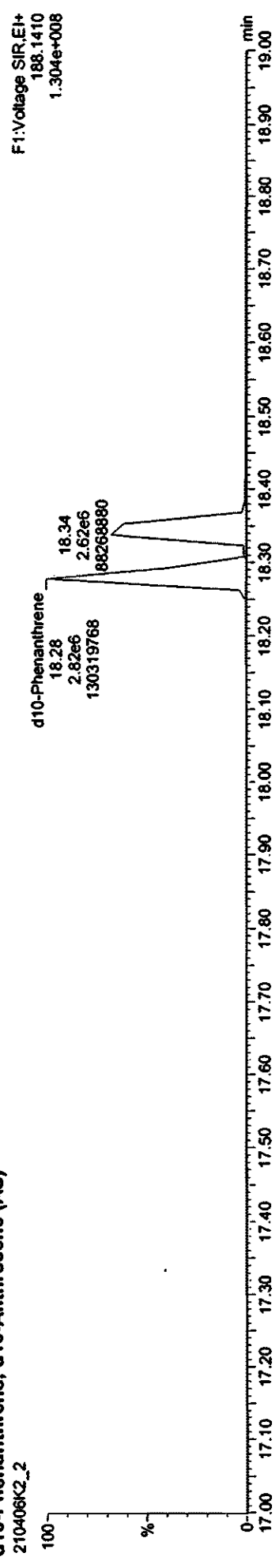
Phenanthrene; Anthracene



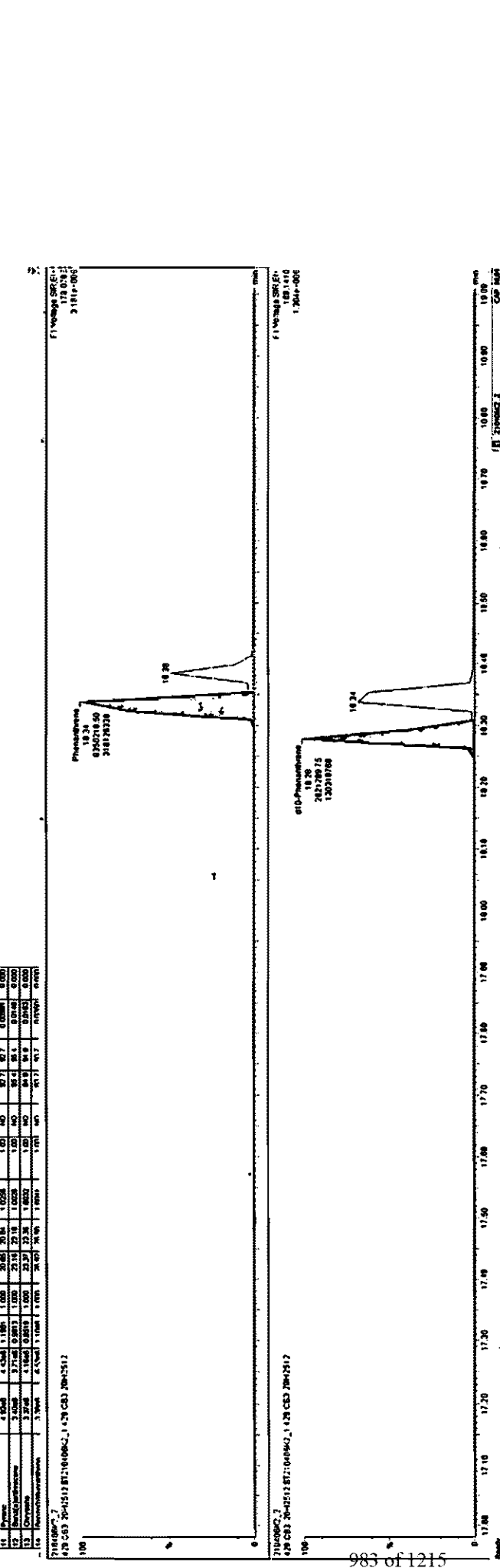
Phenanthrene-2nd



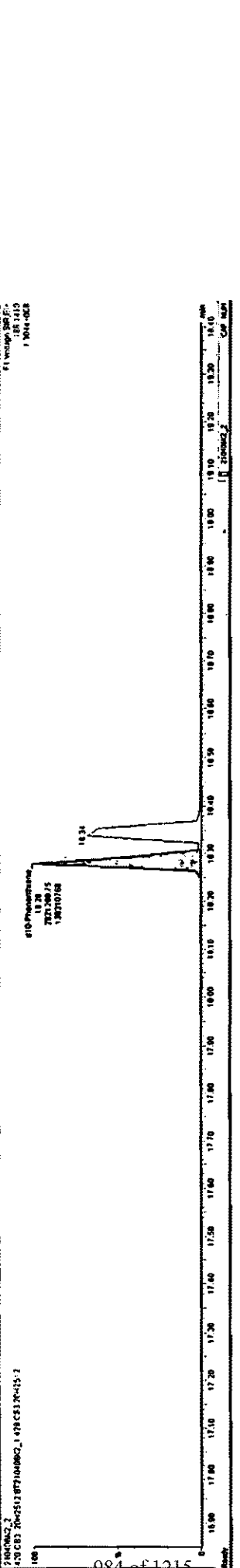
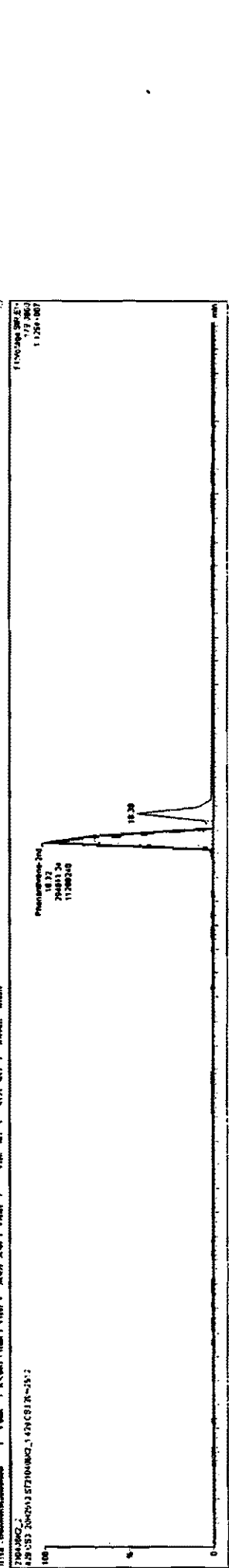
d10-Phenanthrene; d10-Anthracene (AS)



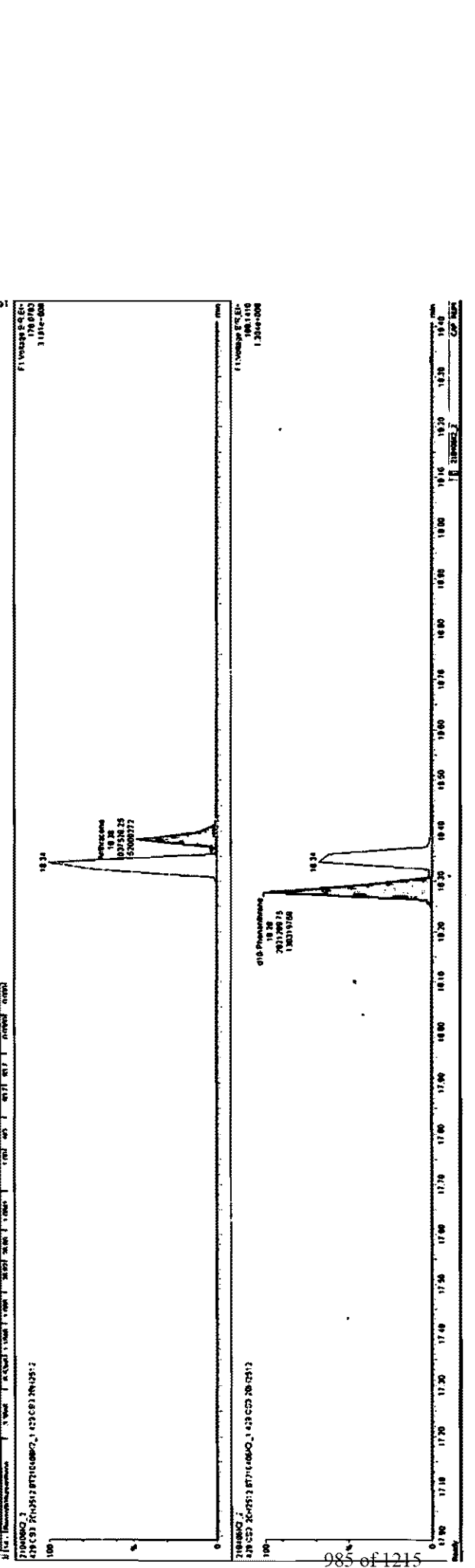
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|------|-------|------------|-----------|-------|-------|------------|-----------|-------|-------|------------|-----------|-------|
| 1 | 18.24 | 2421269.75 | 130319708 | 1.00 | 18.24 | 2421269.75 | 130319708 | 1.00 | 18.24 | 2421269.75 | 130319708 | 1.00 |
| 2 | 18.34 | 326218.50 | 21817933 | 1.00 | 18.34 | 326218.50 | 21817933 | 1.00 | 18.34 | 326218.50 | 21817933 | 1.00 |



| Peak # | Retention Time (min) | Area | Height | Width | Resolution | Integration | Signal | Baseline | Offset | Gain | Offset | Gain | Offset | Gain | Offset | Gain | Offset | Gain | Offset |
|--------|----------------------|------|--------|-------|------------|-------------|--------|----------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 1 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 2 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 3 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 4 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 5 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 6 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 7 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 8 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 9 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 10 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 11 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 12 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 13 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 14 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 15 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 16 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 17 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |
| 18 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 | 1.00 | 1.00 | 1000 | 100 |



| Peak | RT | Area | Height | Width | Area% | Height% | Area% | Height% |
|------|-------|-------|--------|-------|-------|---------|-------|---------|
| 1 | 1.067 | 3.724 | 1.927 | 1.000 | 1.01 | 100 | 100 | 100 |
| 2 | 1.166 | 3.724 | 1.927 | 1.000 | 1.01 | 100 | 100 | 100 |
| 3 | 1.166 | 3.724 | 1.927 | 1.000 | 1.01 | 100 | 100 | 100 |
| 4 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 5 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 6 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 7 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 8 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 9 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 10 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 11 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 12 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 13 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 14 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 15 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 16 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 17 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 18 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 19 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 20 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 21 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 22 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 23 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 24 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 25 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 26 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 27 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 28 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 29 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 30 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 31 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 32 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 33 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 34 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 35 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 36 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 37 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 38 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 39 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 40 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 41 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 42 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 43 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 44 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 45 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 46 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 47 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 48 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 49 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |
| 50 | 2.714 | 2.654 | 1.378 | 1.000 | 1.00 | 100 | 100 | 100 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

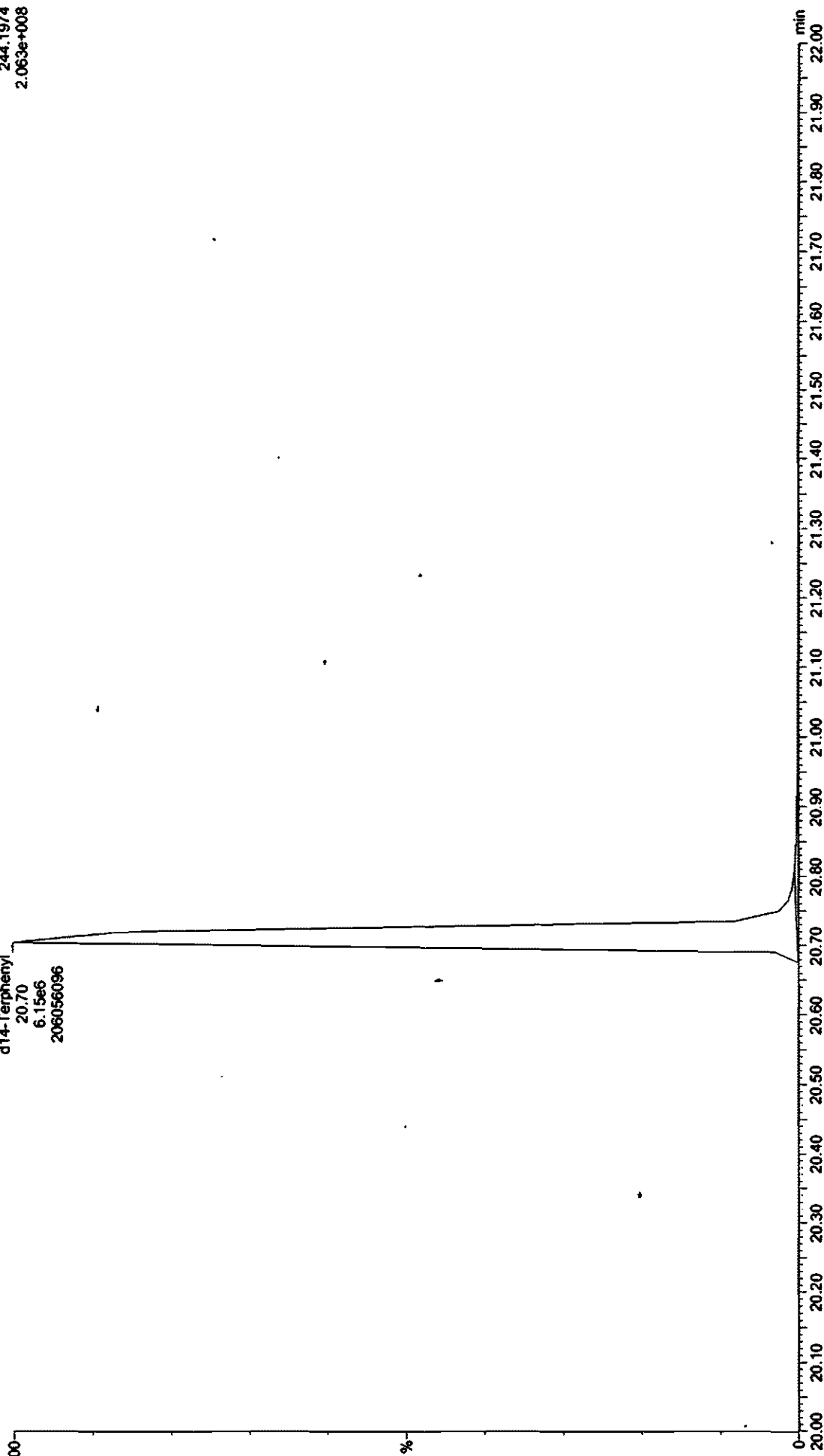
Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

d14-Terphenyl (PS)

210406K2_2

d14-Terphenyl
20.70
6.15e6
206056096

F2:Voltage SIR.EI+
244.1974
2.063e+008



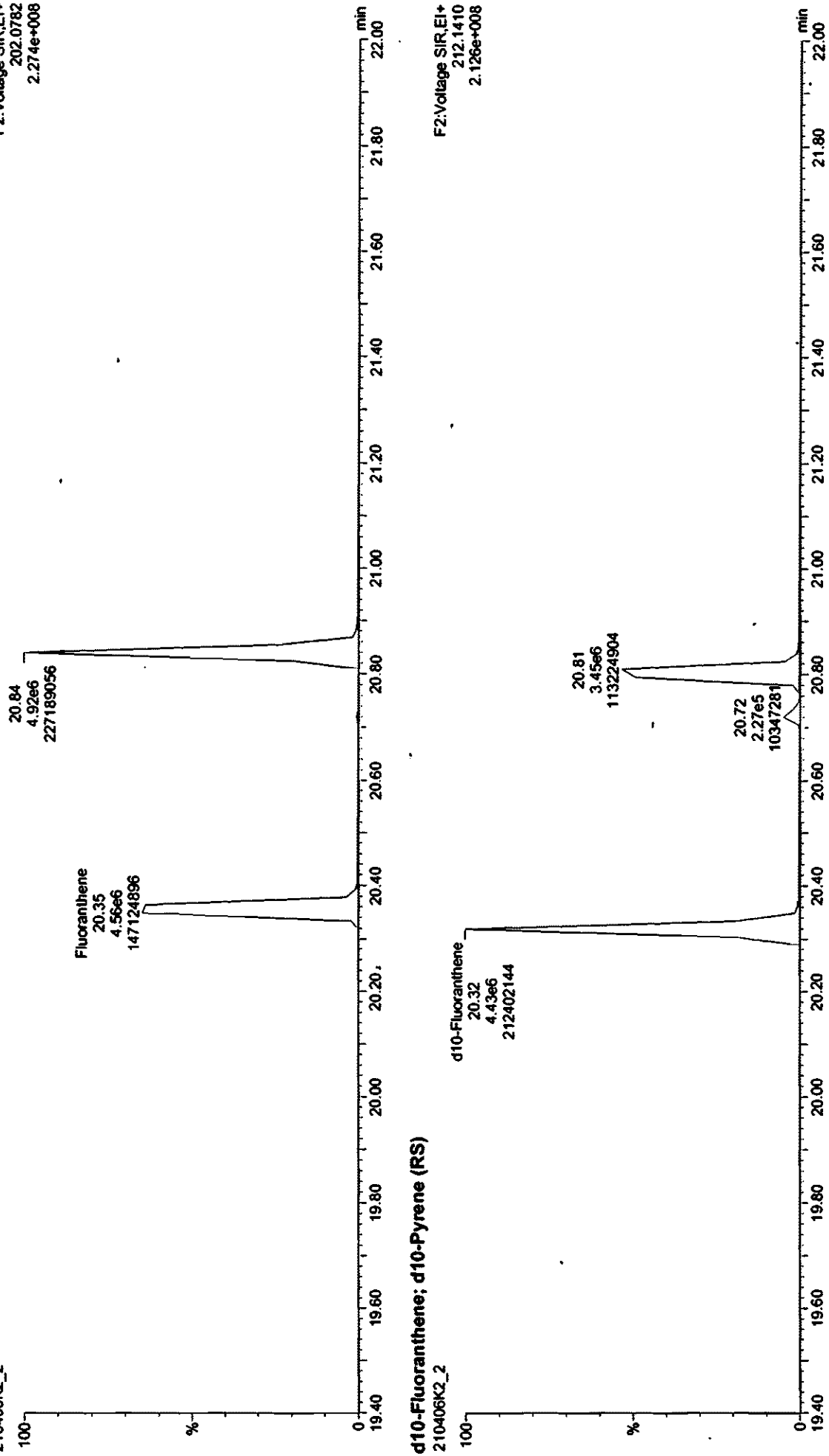
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

Fluoranthene; Pyrene
210406K2_2

F2:Voltage SIR,EI+
202.0782
2.274e+008



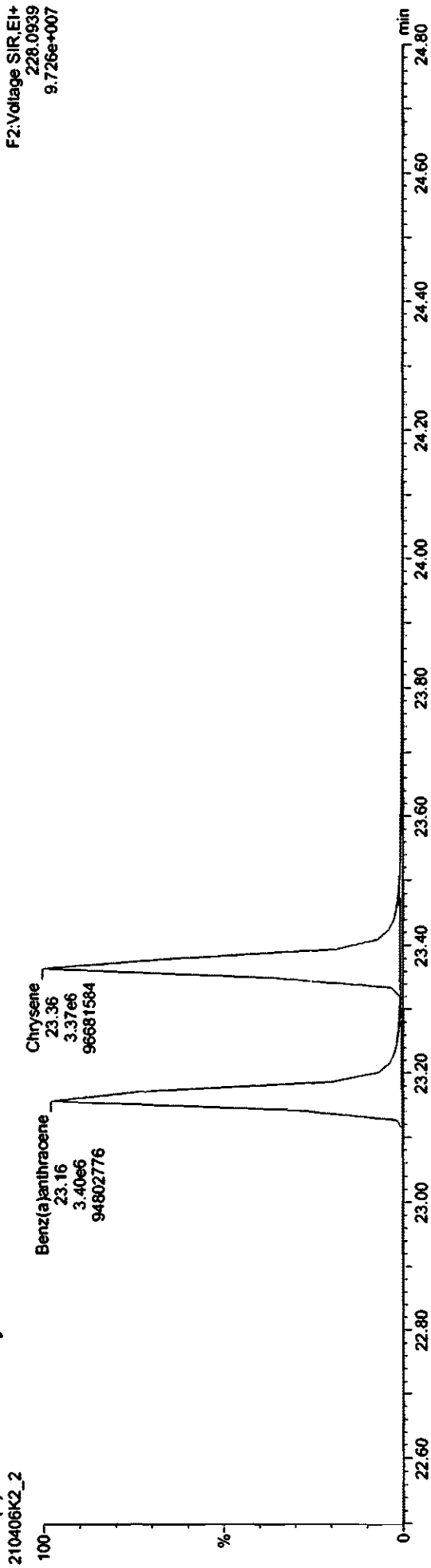
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

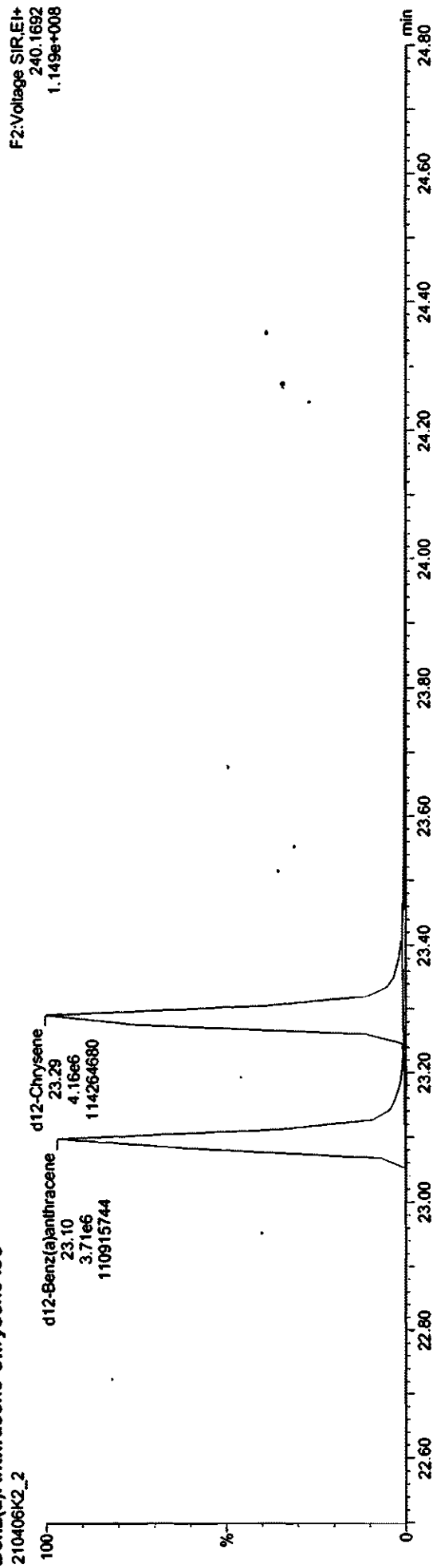
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
9.726e+007



Benz(a)Anthracene-Chrysene-Iso

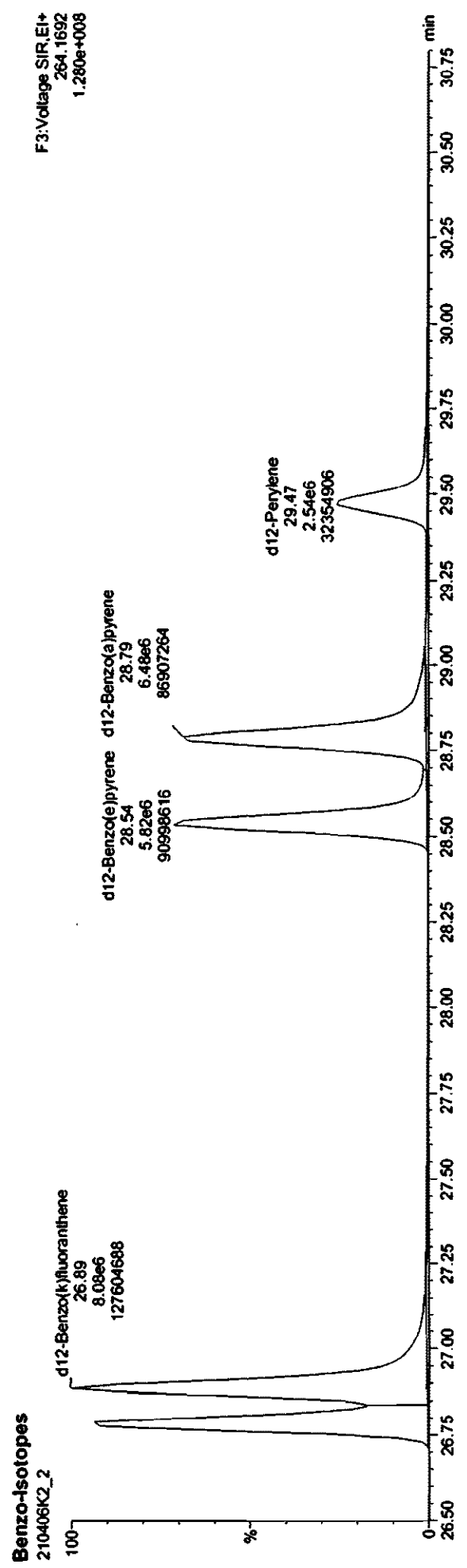
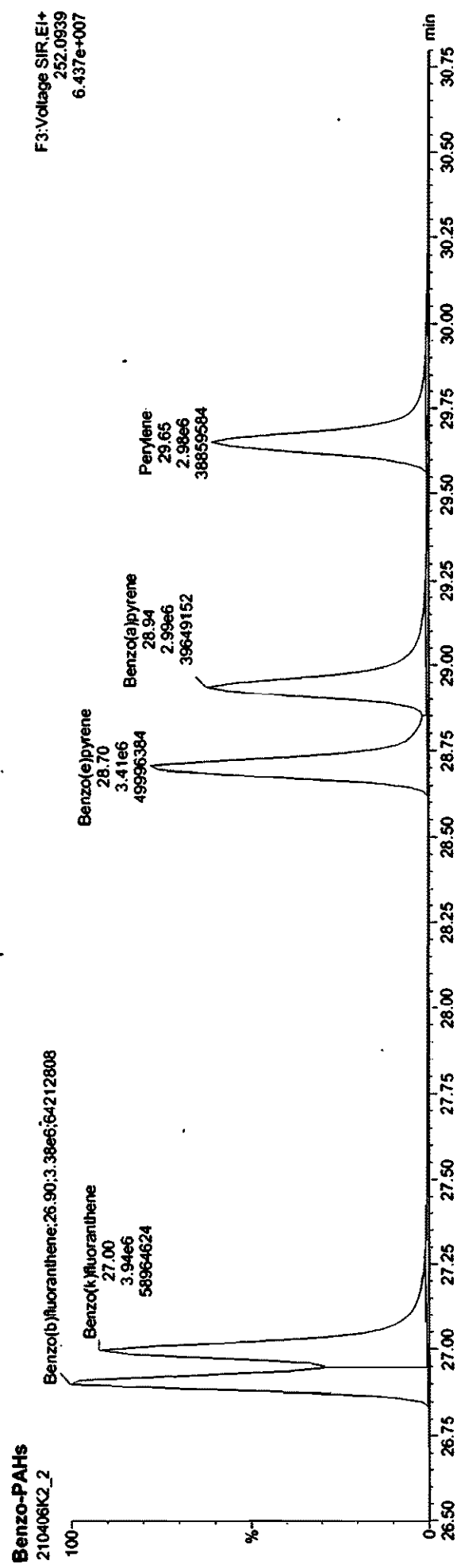
F2:Voltage SIR,EI+
240.1692
1.149e+008



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

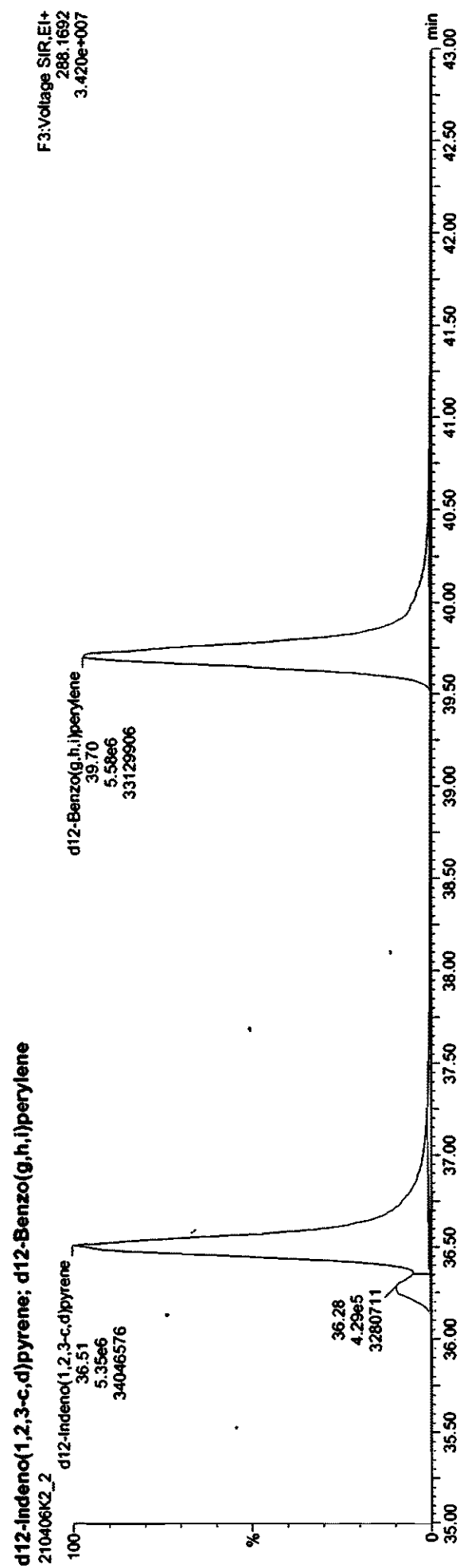
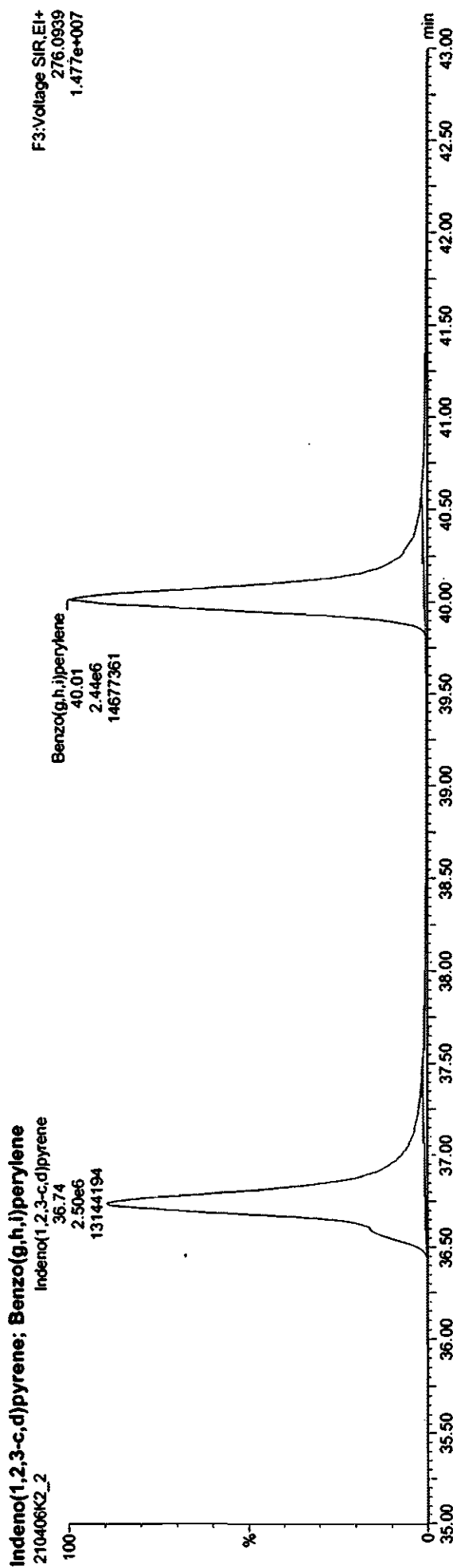
Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512



Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

Name: 210406K2_2; Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512



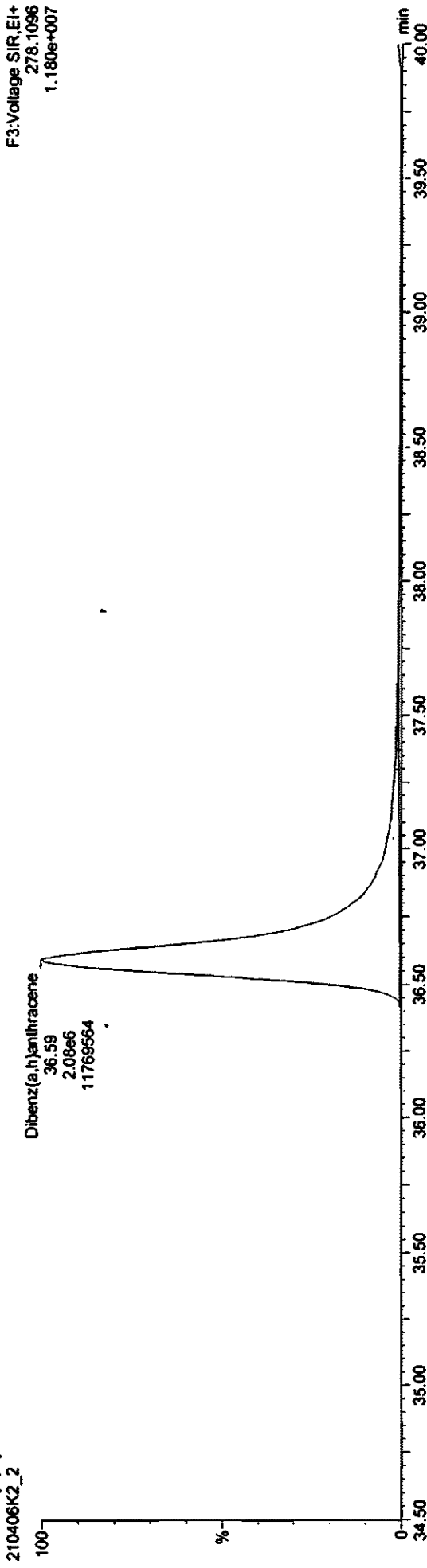
Dataset: Untitled

Last Altered: Wednesday, April 07, 2021 2:51:17 PM Pacific Daylight Time
Printed: Wednesday, April 07, 2021 2:51:53 PM Pacific Daylight Time

Name: 210406K2_2, Date: 07-Apr-2021, Time: 02:54:13, ID: ST210406K2_1 429 CS3 20H2512, Description: 429 CS3 20H2512

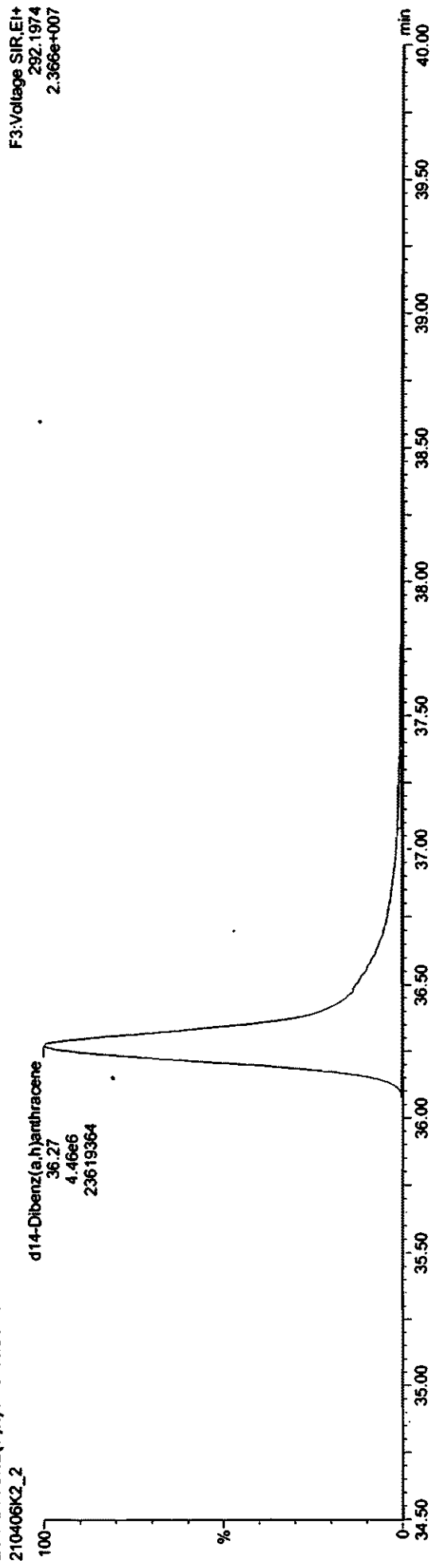
Dibenz(a,h)anthracene

F3:Voltage SIR,EI+
278.1096
1.160e+007



d14-Dibenz(a,h)anthracene

F3:Voltage SIR,EI+
292.1974
2.366e+007



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST210407 K1-1

Reviewed By: DF 64/08/21

End Calibration ID: NA

Initials & Date

| | | | | | | | | | |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Ion abundance within QC limits? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Concentrations within criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| TCDD/TCDF Valleys <25% | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| First and last eluters present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Retention Times within criteria? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Verification Std. named correctly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| (ST-Year-Month-Day-VG ID) | | | | | | | | | |
| Forms signed and dated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Correct ICAL referenced? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Run Log: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - Correct Instrument listed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - Samples within 12 hour clock? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - Bottle position verified? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Mass resolution \geq
 5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:
 - Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:
 (A) Phenanthrene 7th failed, ok not needed

| | | |
|-------------|-------------------------------------|-------------------------------------|
| Beg. | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| End | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210407K1\210407K1-1.qld

Last Altered: Thursday, April 08, 2021 9:29:59 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:30:18 AM Pacific Daylight Time

Handwritten notes:
4.9.2021
TF 24/08/21
R 0.5% not checked

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\cb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

| # | Name | Resp | IS Resp | RRF | w/vol | Pred.RT | RT | L.Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|--------------------------|--------|---------|--------|-------|---------|-------|-----------|-------|---------|------|-------|--------|
| 1 | Naphthalene | 5.22e6 | 1.79e6 | 0.128 | 1.000 | 10.14 | 10.15 | 1.006 | 1.006 | NO | 252 | 101.5 | 0.152 |
| 2 | Naphthalene-2nd | 5.65e5 | 1.79e6 | 0.128 | 1.000 | 10.14 | 10.15 | 1.006 | 1.006 | NO | 247 | 98.9 | 1.29 |
| 3 | 2-Methylnaphthalene | 1.22e6 | 8.92e5 | 1.38 | 1.000 | 11.60 | 11.61 | 0.794 | 0.795 | NO | 99.5 | 99.5 | 0.0845 |
| 4 | Acenaphthylene | 1.51e6 | 1.35e6 | 1.12 | 1.000 | 14.37 | 14.35 | 1.003 | 1.002 | NO | 100 | 100 | 0.0708 |
| 5 | Acenaphthene | 1.01e6 | 8.92e5 | 1.10 | 1.000 | 14.68 | 14.70 | 1.006 | 1.007 | NO | 103 | 103 | 0.117 |
| 6 | Fluorene | 1.01e6 | 8.63e5 | 1.15 | 1.000 | 15.92 | 15.92 | 1.006 | 1.006 | NO | 101 | 101 | 0.0878 |
| 7 | Phenanthrene | 4.07e6 | 1.41e6 | 1.19 | 1.000 | 18.32 | 18.32 | 1.002 | 1.002 | NO | 242 | 96.8 | 0.0396 |
| 8 | Phenanthrene-2nd | 4.78e5 | 1.41e6 | 0.0925 | 1.000 | 18.31 | 18.32 | 1.002 | 1.002 | NO | 366 | 146 | 0.502 |
| 9 | Anthracene | 1.56e6 | 1.41e6 | 1.09 | 1.000 | 18.38 | 18.38 | 1.005 | 1.006 | NO | 101 | 101 | 0.0432 |
| 10 | Fluoranthene | 2.17e6 | 2.15e6 | 1.10 | 1.000 | 20.37 | 20.36 | 1.002 | 1.002 | NO | 91.8 | 91.8 | 0.0183 |
| 11 | Pyrene | 2.40e6 | 2.15e6 | 1.20 | 1.000 | 20.85 | 20.84 | 1.026 | 1.026 | NO | 93.3 | 93.3 | 0.0168 |
| 12 | Benz(a)anthracene | 1.46e6 | 1.48e6 | 0.961 | 1.000 | 23.17 | 23.19 | 1.003 | 1.003 | NO | 103 | 103 | 0.0444 |
| 13 | Chrysene | 1.50e6 | 1.81e6 | 0.852 | 1.000 | 23.38 | 23.39 | 1.003 | 1.004 | NO | 97.1 | 97.1 | 0.0461 |
| 14 | Benzo(b)fluoranthene | 1.37e6 | 2.51e6 | 1.10 | 1.000 | 26.96 | 26.94 | 1.005 | 1.004 | NO | 98.8 | 98.8 | 0.0975 |
| 15 | Benzo(k)fluoranthene | 1.78e6 | 3.59e6 | 1.04 | 1.000 | 27.04 | 27.02 | 1.004 | 1.004 | NO | 95.7 | 95.7 | 0.0992 |
| 16 | Benzo(e)pyrene | 1.55e6 | 3.59e6 | 0.911 | 1.000 | 28.73 | 28.72 | 1.067 | 1.067 | NO | 94.5 | 94.5 | 0.113 |
| 17 | Benzo(a)pyrene | 1.27e6 | 2.60e6 | 1.02 | 1.000 | 28.97 | 28.96 | 1.006 | 1.005 | NO | 95.9 | 95.9 | 0.168 |
| 18 | Perylene | 1.12e6 | 2.60e6 | 0.987 | 1.000 | 29.71 | 29.66 | 1.031 | 1.030 | NO | 87.2 | 87.2 | 0.173 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.01e6 | 2.16e6 | 0.915 | 1.000 | 36.94 | 36.98 | 1.007 | 1.008 | NO | 102 | 102 | 0.448 |
| 20 | Benzo(g,h,i)perylene | 1.06e6 | 2.25e6 | 0.940 | 1.000 | 40.50 | 40.44 | 1.009 | 1.008 | NO | 99.8 | 99.8 | 0.479 |
| 21 | Dibenz(a,h)anthracene | 7.67e5 | 1.50e6 | 0.948 | 1.000 | 36.89 | 36.82 | 1.011 | 1.009 | NO | 108 | 108 | 1.31 |
| 22 | db-Naphthalene | 1.79e6 | 1.62e6 | 1.20 | 1.000 | 10.10 | 10.09 | 0.848 | 0.847 | NO | 91.5 | 91.5 | 0.0239 |
| 23 | db-Acenaphthylene | 1.35e6 | 1.62e6 | 0.905 | 1.000 | 14.31 | 14.32 | 1.201 | 1.203 | NO | 91.6 | 91.6 | 0.0239 |
| 24 | d10-Acenaphthene | 8.92e5 | 1.62e6 | 0.594 | 1.000 | 14.60 | 14.60 | 1.226 | 1.226 | NO | 92.5 | 92.5 | 0.0218 |
| 25 | d10-Fluorene | 8.63e5 | 1.62e6 | 0.563 | 1.000 | 15.84 | 15.83 | 1.330 | 1.329 | NO | 94.4 | 94.4 | 0.0235 |
| 26 | d10-Phenanthrene | 1.41e6 | 1.62e6 | 0.735 | 1.000 | 18.26 | 18.28 | 1.533 | 1.535 | NO | 118 | 118 | 0.0143 |
| 27 | d10-Fluoranthene | 2.15e6 | 1.62e6 | 1.29 | 1.000 | 20.33 | 20.32 | 0.977 | 0.976 | NO | 103 | 103 | 0.0118 |
| 28 | d12-Benz(a)anthracene | 1.48e6 | 1.62e6 | 0.900 | 1.000 | 23.11 | 23.11 | 1.110 | 1.111 | NO | 101 | 101 | 0.0193 |
| 29 | d12-Chrysene | 1.81e6 | 1.62e6 | 1.02 | 1.000 | 23.30 | 23.31 | 1.120 | 1.120 | NO | 109 | 109 | 0.0170 |
| 30 | d12-Benzo(b)fluoranthene | 2.51e6 | 1.62e6 | 1.18 | 1.000 | 26.76 | 26.83 | 0.907 | 0.910 | NO | 206 | 206 | 0.159 |
| 31 | d12-Benzo(k)fluoranthene | 3.59e6 | 1.03e6 | 1.50 | 1.000 | 26.87 | 26.92 | 0.911 | 0.913 | NO | 231 | 231 | 0.125 |

Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210407K1\210407K1-1.qld

Last Altered: Thursday, April 08, 2021 9:29:59 AM Pacific Daylight Time

Printed: Thursday, April 08, 2021 9:30:18 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

| # | Name | Resp | IS Resp | RRF | wVol | Pred.RT | RT | Pred.RRT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|----------|-------|---------|------|-------|--------|
| 32 | d12-Benz(a)pyrene | 2.60e6 | 1.03e6 | 1.24 | 1.000 | 28.76 | 28.80 | 0.975 | 0.977 | NO | 203 | 102.6 | 0.152 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 2.16e6 | 1.03e6 | 1.02 | 1.000 | 36.78 | 36.69 | 1.247 | 1.244 | NO | 206 | 103 | 0.192 |
| 34 | d12-Benz(o,g,h,i)perylene | 2.25e6 | 1.03e6 | 1.00 | 1.000 | 40.18 | 40.12 | 1.362 | 1.360 | NO | 217 | 109 | 0.195 |
| 35 | d14-Dibenz(a,h)anthracene | 1.50e6 | 1.03e6 | 0.765 | 1.000 | 36.55 | 36.48 | 1.239 | 1.237 | NO | 189 | 94.7 | 0.223 |
| 36 | d10-Anthraccene | 1.34e6 | 1.03e6 | 0.989 | 1.000 | 18.35 | 18.34 | 1.541 | 1.540 | NO | 132 | 132 | 0.0582 |
| 37 | d14-Terphenyl | 2.75e6 | 2.15e6 | 0.576 | 1.000 | 20.69 | 20.72 | 1.018 | 1.020 | NO | 222 | 111 | 0.0141 |
| 38 | d12-Benz(e)pyrene | 2.62e6 | 3.59e6 | 0.738 | 1.000 | 28.54 | 28.56 | 1.060 | 1.061 | NO | 198 | 98.9 | 0.120 |
| 39 | d10-1-Methyl-naphthalene | 1.23e6 | 1.23e6 | 1.00 | 1.000 | 11.93 | 11.91 | 1.000 | 1.000 | NO | 100 | 100 | 0.0186 |
| 40 | d10-Pyrene | 1.52e6 | 1.62e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 100 | 100 | 0.0152 |
| 41 | d12-Perylene | 1.03e6 | 1.03e6 | 1.00 | 1.000 | 29.59 | 29.49 | 1.000 | 1.000 | NO | 100 | 100 | 0.188 |

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:22:44 AM Pacific Daylight Time

Method: U:\VG11.PROMethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\ld_50_PA\vg11-4-1-21.cdb 01 Apr 2021 16:11:11

Compound name: Naphthalene

| Name | ID | Acq Date | Acq Time |
|--------------|------------------------------------|-----------|----------|
| 1 210407K1_1 | ST210407K1_1 429 CS3 20H2512 | 07-Apr-21 | 16:03:21 |
| 2 210407K1_2 | SOLVENT BLANK | 07-Apr-21 | 16:49:52 |
| 3 210407K1_3 | 2103102-01@500X 21-0883 Inlet 1 1 | 07-Apr-21 | 17:48:57 |
| 4 210407K1_4 | 2103102-01@2000X 21-0883 Inlet 1 1 | 07-Apr-21 | 18:34:02 |
| 5 210407K1_5 | 2103102-02@500X 21-0883 Inlet 2 1 | 07-Apr-21 | 19:20:52 |
| 6 210407K1_6 | 2103102-02@2000X 21-0883 Inlet 2 1 | 07-Apr-21 | 20:07:42 |
| 7 210407K1_7 | 2103102-03@500X 21-0883 Inlet 3 1 | 07-Apr-21 | 20:54:32 |
| 8 210407K1_8 | 2103102-03@2000X 21-0883 Inlet 3 1 | 07-Apr-21 | 21:41:21 |

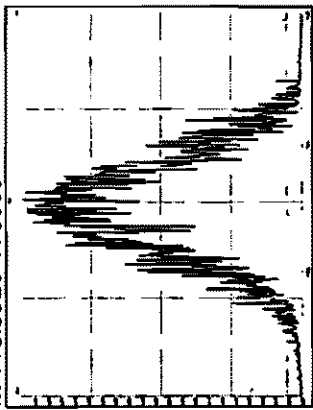
Experiment Calibration Report

Masslynx 4.1 SCN815

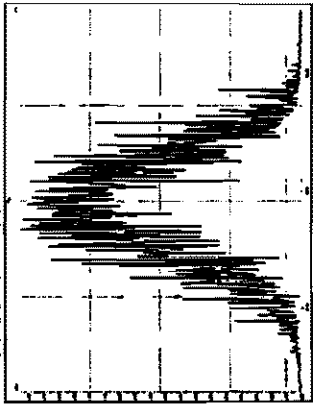
File: Experiment: PAH_ZB50.exp Reference: Plk.ref Function: 1 @ 250 (ppm)

Printed: Wednesday, April 07, 2021 16:00:17 Pacific Daylight Time

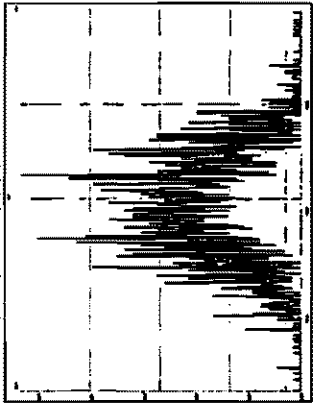
M 118.9920 R 8509



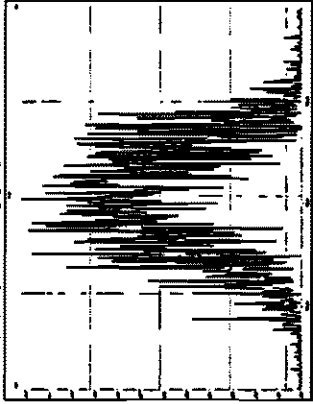
M 130.9920 R 8510



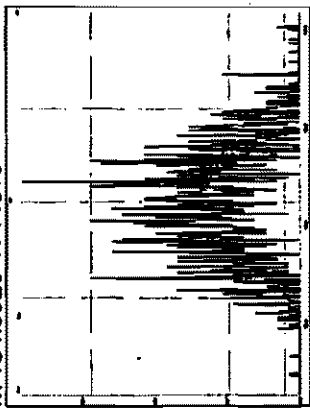
M 142.9920 R 13330



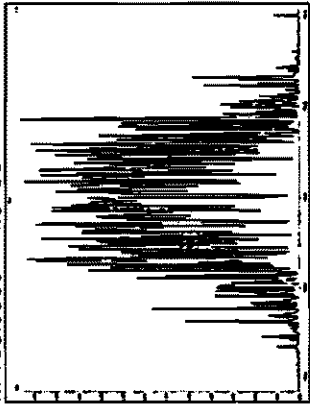
M 149.9904 R 13329



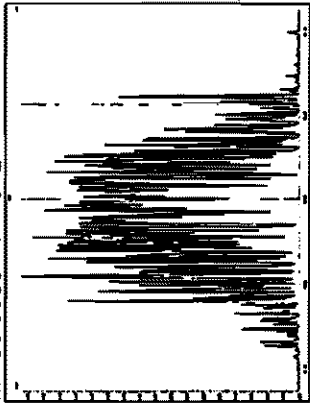
M 154.9920 R 14816



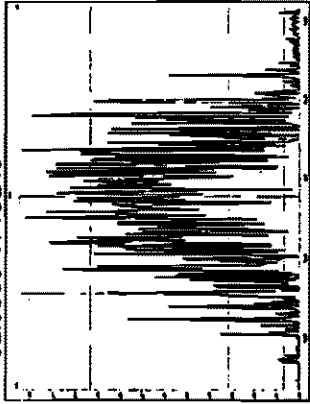
M 168.9888 R 20198



M 180.9888 R 11972



M 192.9888 R 13243



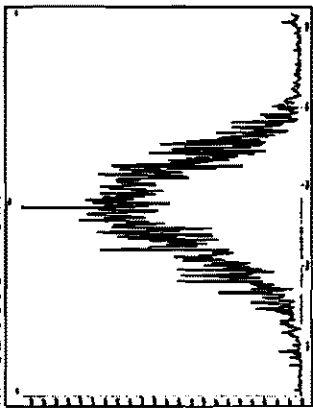
Experiment Calibration Report

MassLynx 4.1 SCN815

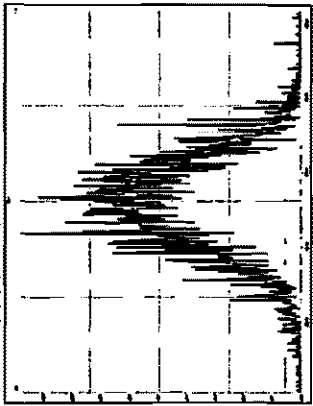
File: Experiment: PAH_ZB50.exp Reference: Pfk.ref Function: 2 @ 250 (ppm)

Printed: Wednesday, April 07, 2021 16:00:35 Pacific Daylight Time

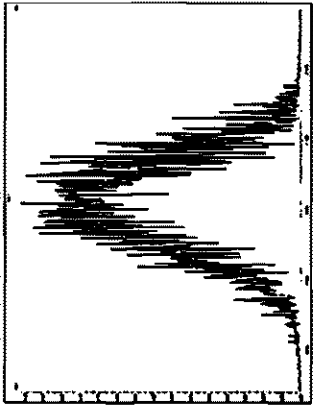
M 192.9888 R 9217



M 204.9888 R 9523



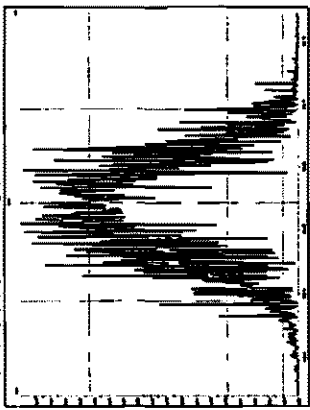
M 218.9856 R 10202



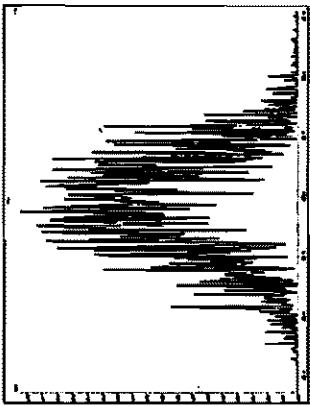
M 230.9856 R 11233



M 242.9856 R 17097



M 254.9856 R 11906



Experiment Calibration Report

MassLynx 4.1 SCN815

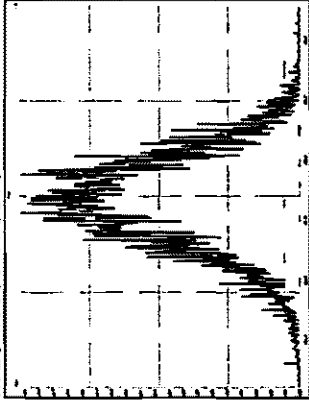
File: Experiment: PAH_ZB50.exp Reference: Plk.ref Function: 3 @ 250 (ppm)

Printed: Wednesday, April 07, 2021 16:01:04 Pacific Daylight Time

M 242.9856 R 8299



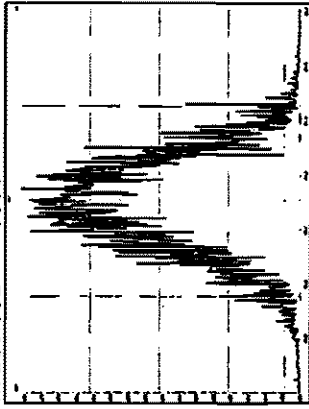
M 254.9856 R 8810



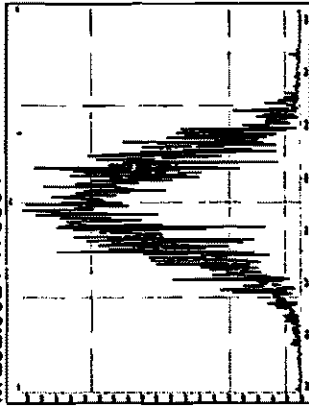
M 268.9824 R 9803



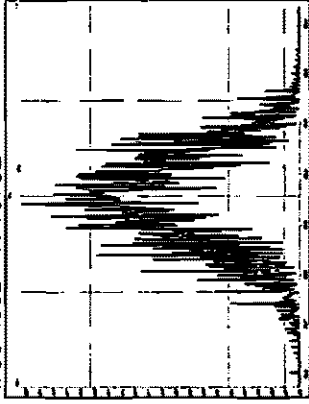
M 280.9824 R 9390



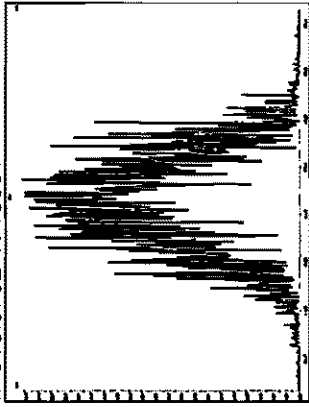
M 292.9824 R 9664



M 304.9824 R 10752



M 318.9792 R 13331

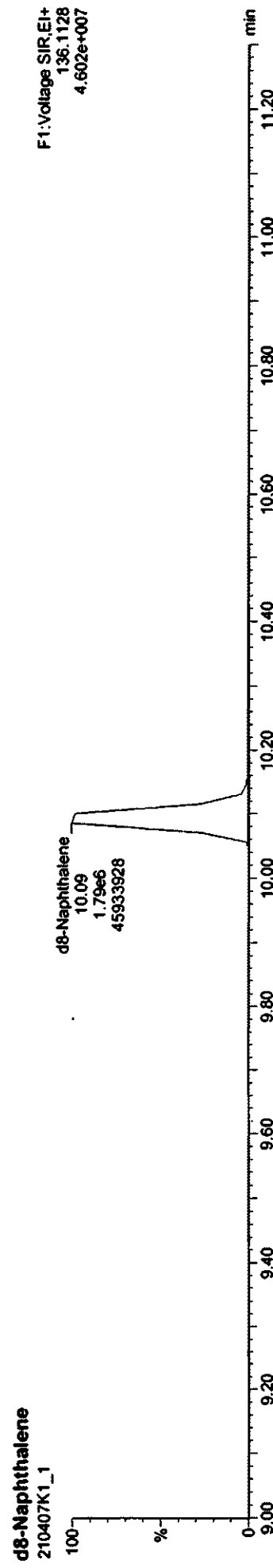
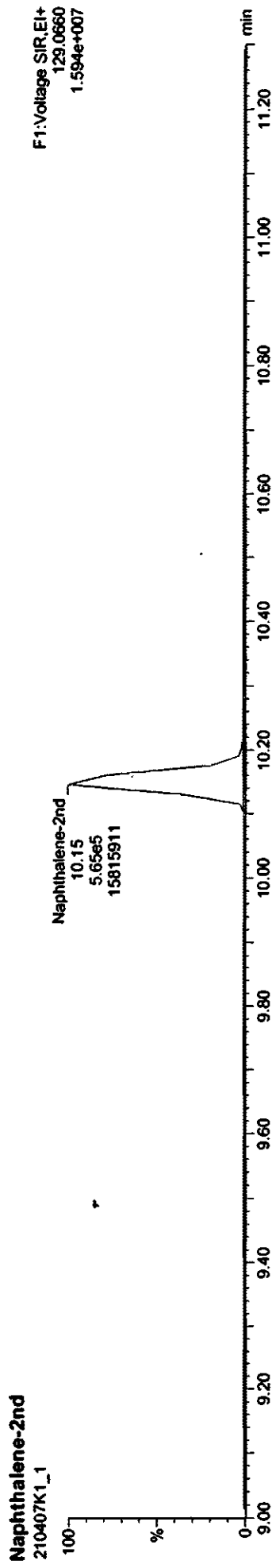
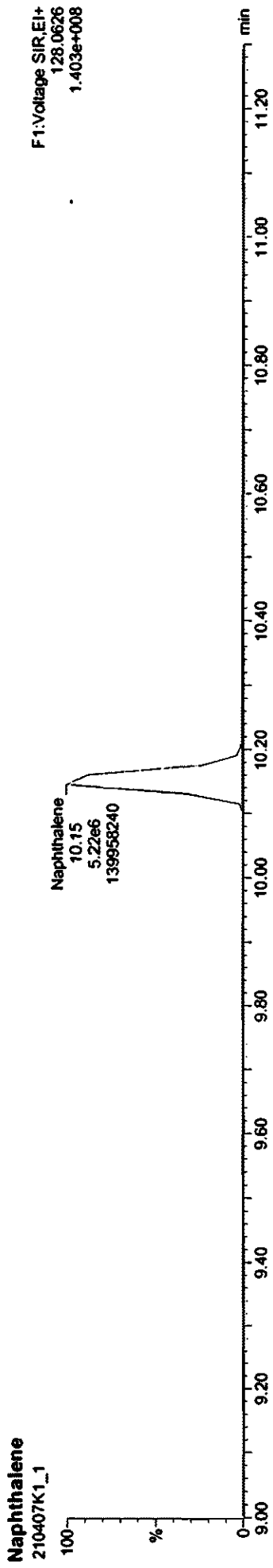


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

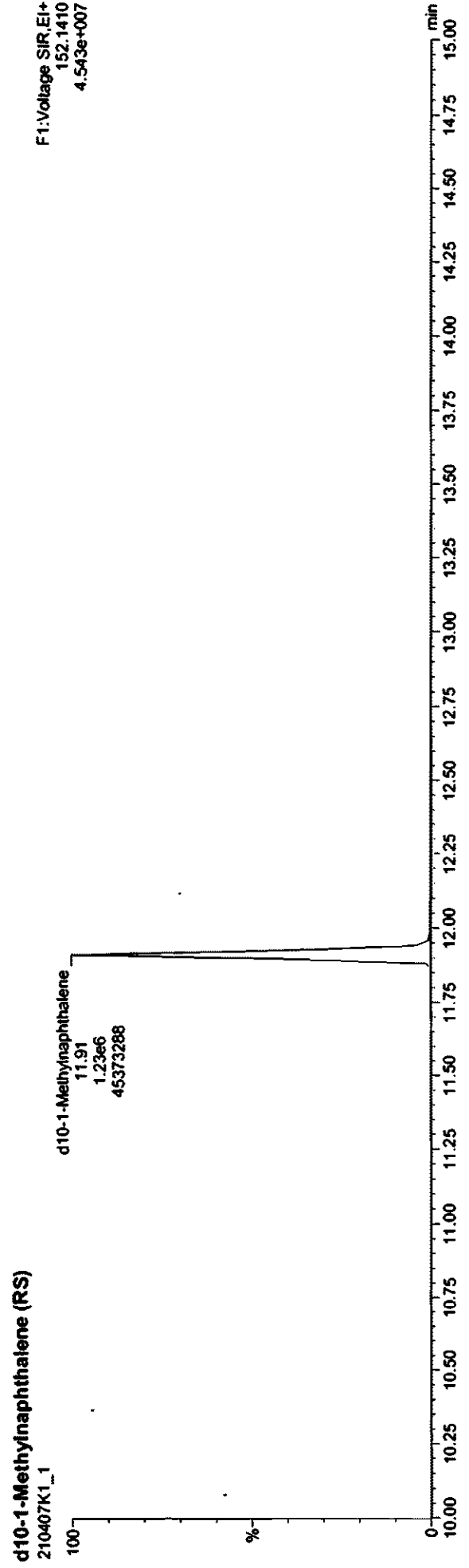
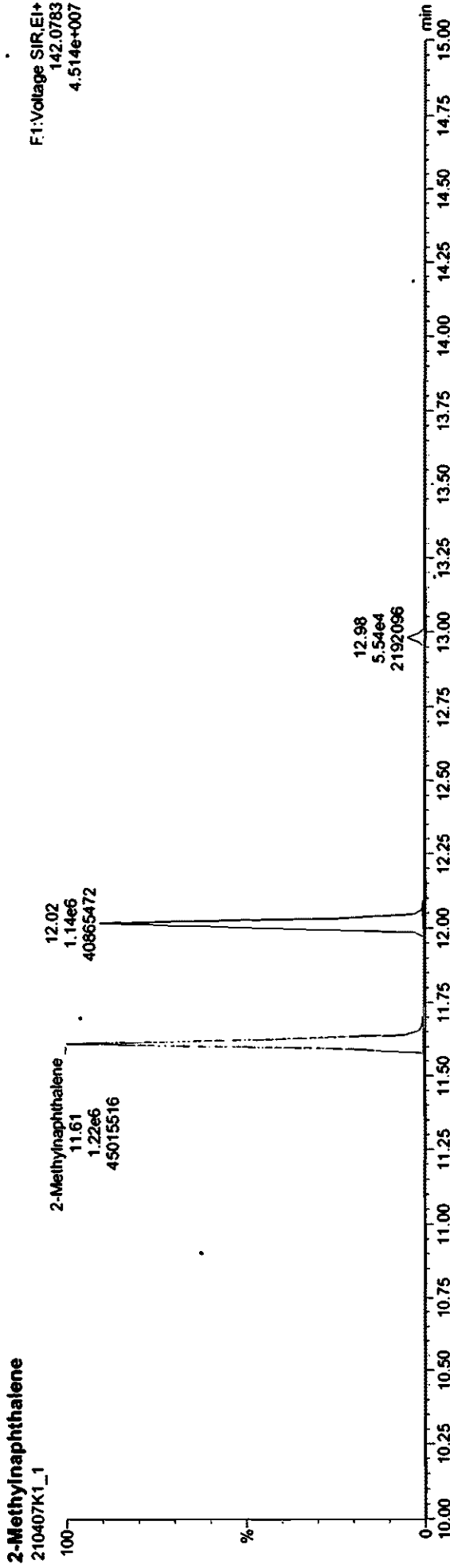
Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11
Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512



Quantify Sample Report
Vista Analytical Laboratory

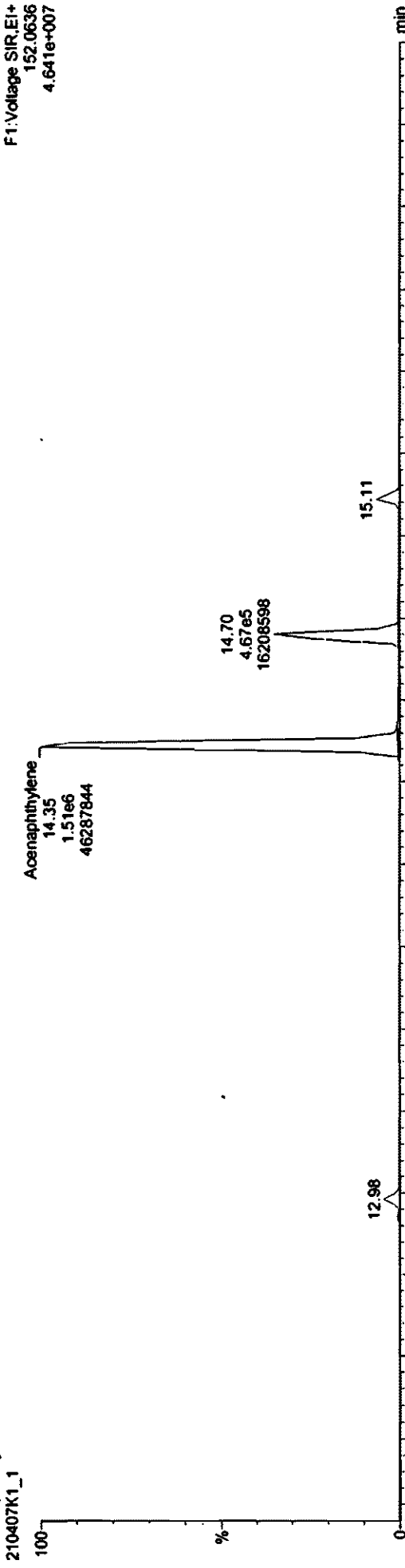
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

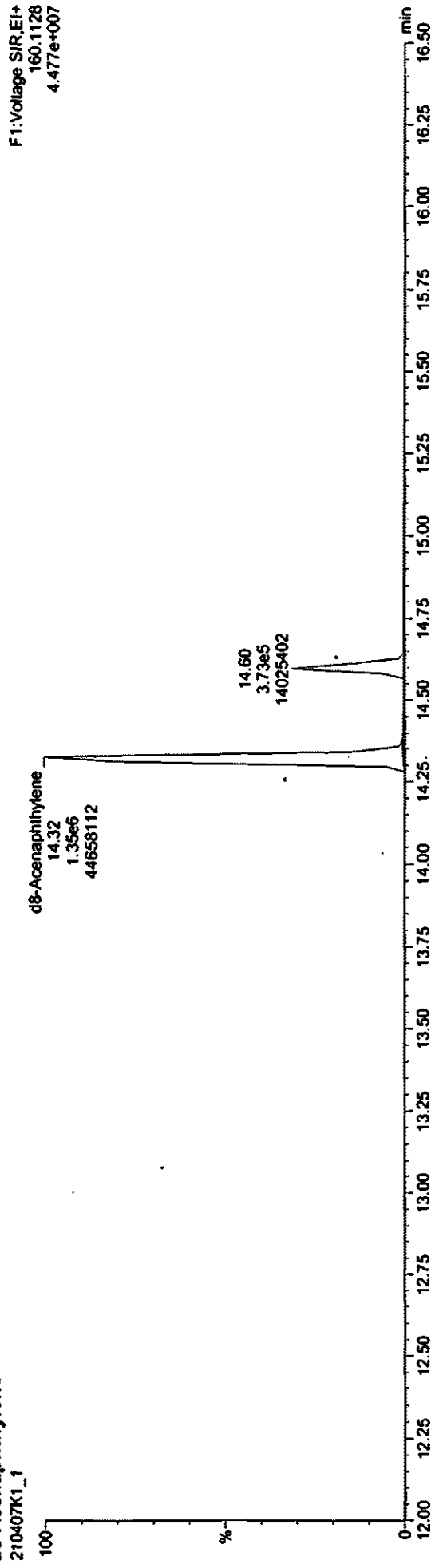
Acenaphthylene

F1:Voltage SIR.EI+
152.0636
4.641e+007



d8-Acenaphthylene

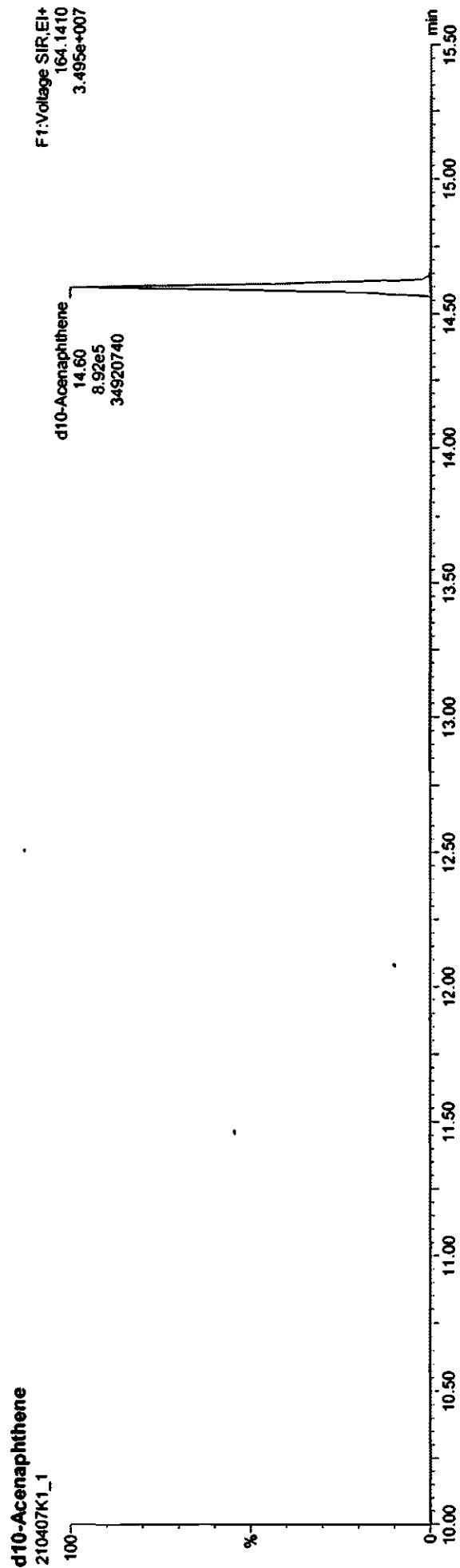
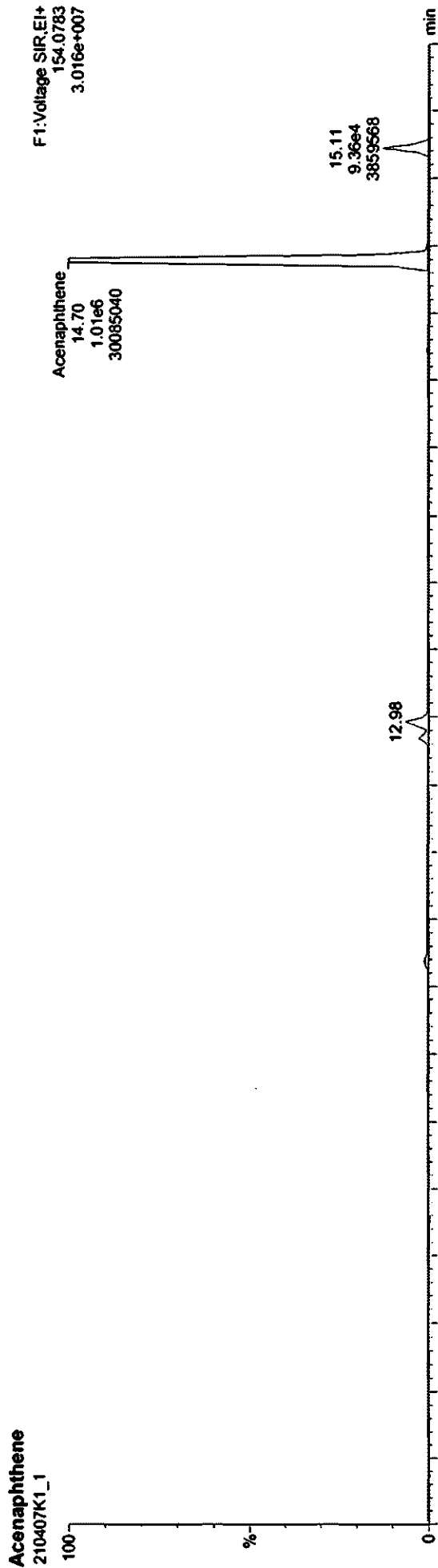
F1:Voltage SIR.EI+
160.1128
4.477e+007



Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

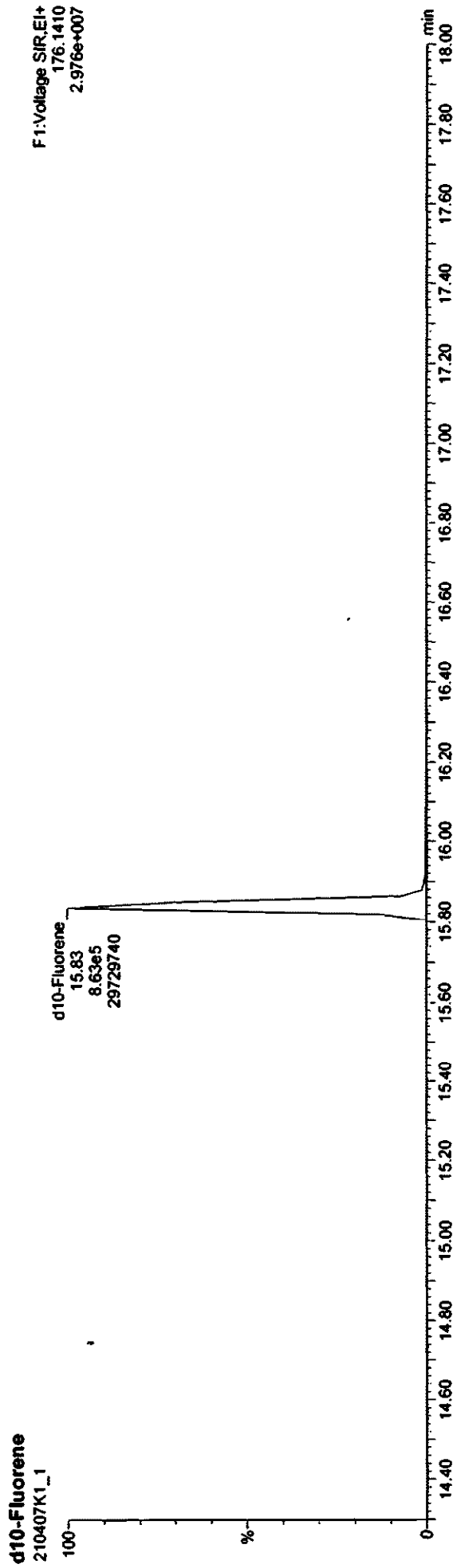
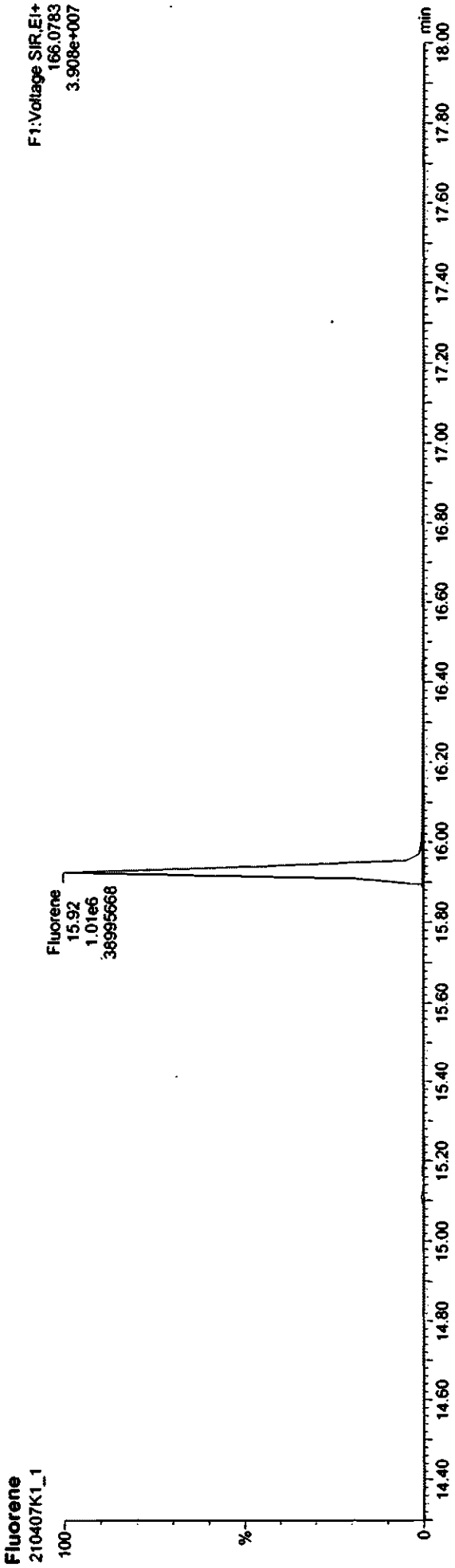


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

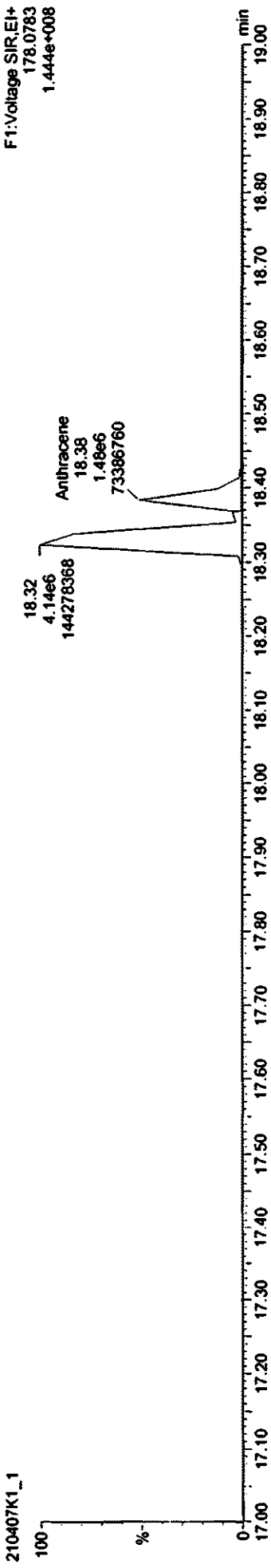


Dataset: Untitled

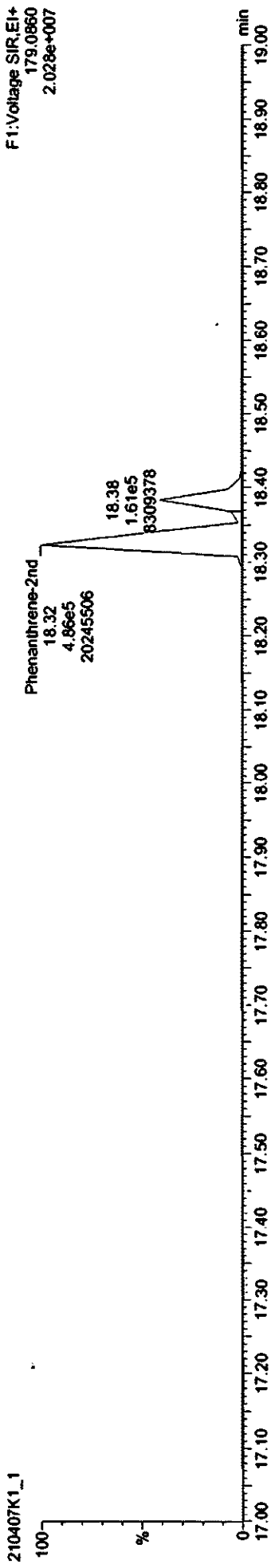
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

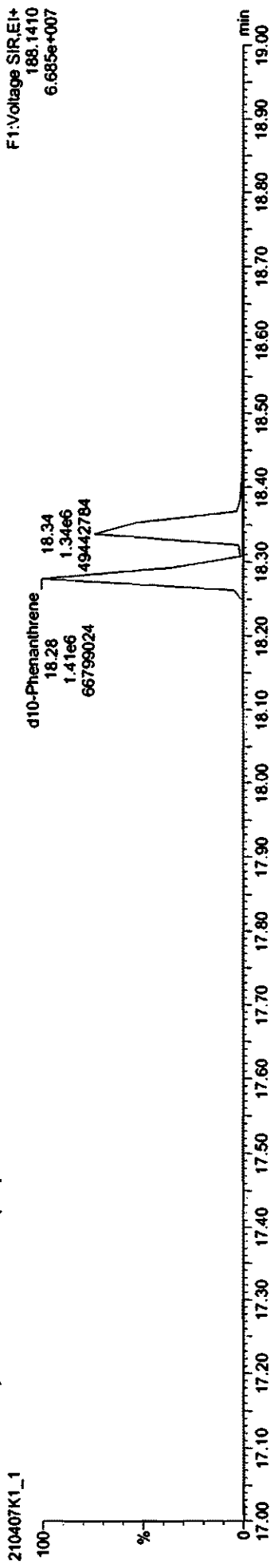
Phenanthrene; Anthracene



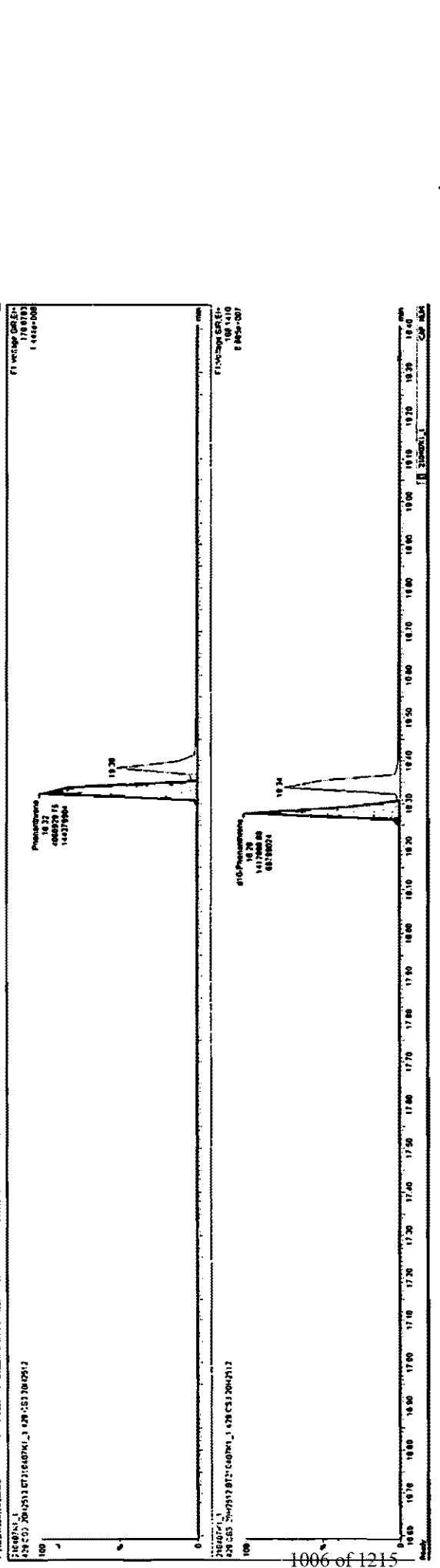
Phenanthrene-2nd

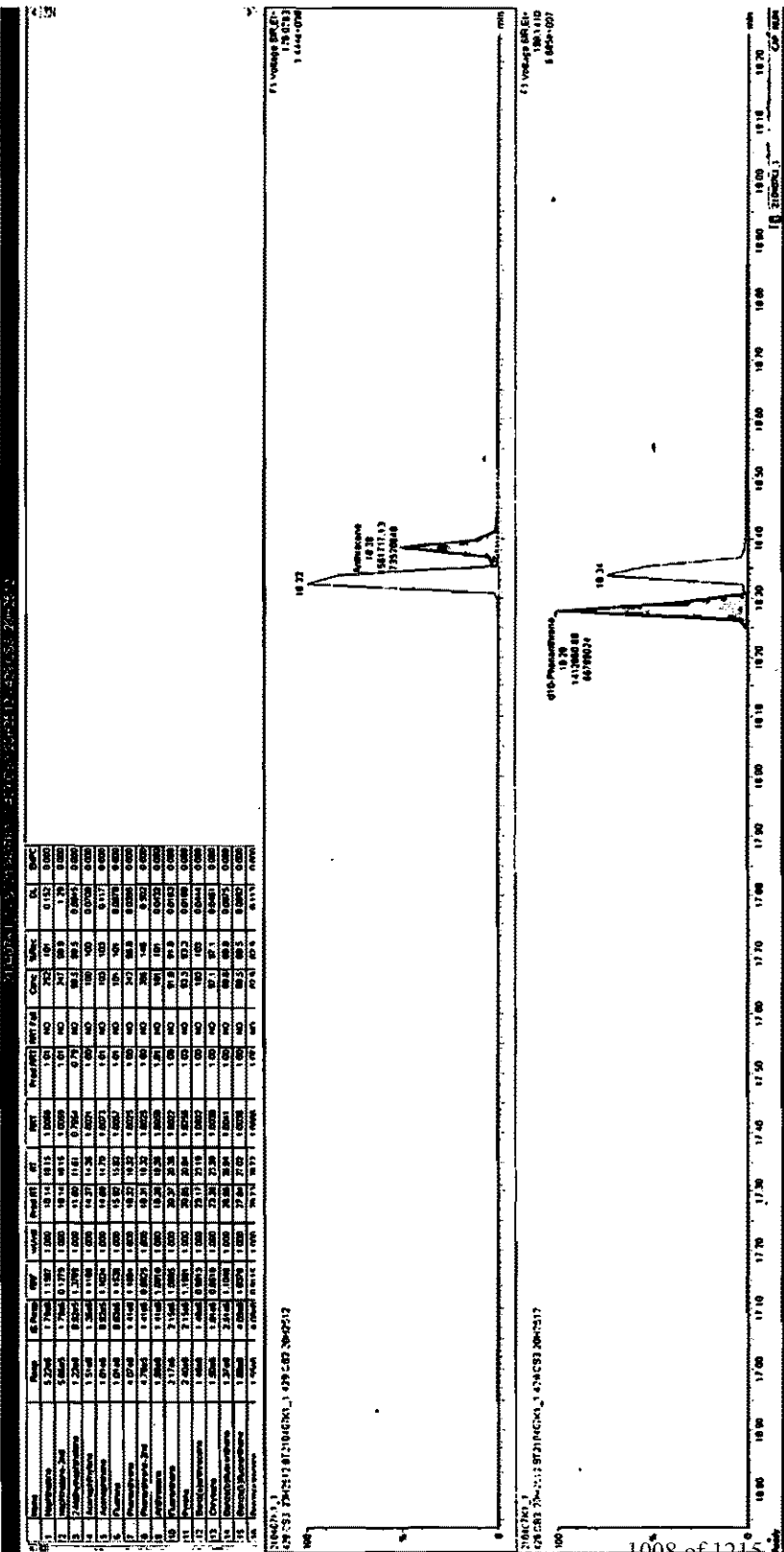


d10-Phenanthrene; d10-Anthracene (AS)



| Name | RT (min) | Area | Height | Width | Area% | Height% | Width% | Area | Height | Width | Area% | Height% | Width% |
|------|----------|-------|--------|-------|-------|---------|--------|------|--------|-------|-------|---------|--------|
| 1 | 1.746 | 11700 | 1000 | 0.18 | 18.14 | 9.55 | 0.058 | 1814 | 1000 | 0.18 | 18.14 | 9.55 | 0.058 |
| 2 | 2.258 | 17400 | 1500 | 0.19 | 17.40 | 8.29 | 0.058 | 1740 | 1500 | 0.19 | 17.40 | 8.29 | 0.058 |
| 3 | 2.769 | 15200 | 1300 | 0.20 | 15.20 | 7.14 | 0.058 | 1520 | 1300 | 0.20 | 15.20 | 7.14 | 0.058 |
| 4 | 3.280 | 13000 | 1100 | 0.21 | 13.00 | 6.09 | 0.058 | 1300 | 1100 | 0.21 | 13.00 | 6.09 | 0.058 |
| 5 | 3.791 | 10800 | 900 | 0.22 | 10.80 | 5.04 | 0.058 | 1080 | 900 | 0.22 | 10.80 | 5.04 | 0.058 |
| 6 | 4.302 | 8600 | 700 | 0.23 | 8.60 | 4.09 | 0.058 | 860 | 700 | 0.23 | 8.60 | 4.09 | 0.058 |
| 7 | 4.813 | 6400 | 500 | 0.24 | 6.40 | 3.04 | 0.058 | 640 | 500 | 0.24 | 6.40 | 3.04 | 0.058 |
| 8 | 5.324 | 4200 | 300 | 0.25 | 4.20 | 2.09 | 0.058 | 420 | 300 | 0.25 | 4.20 | 2.09 | 0.058 |
| 9 | 5.835 | 2000 | 150 | 0.26 | 2.00 | 1.04 | 0.058 | 200 | 150 | 0.26 | 2.00 | 1.04 | 0.058 |
| 10 | 6.346 | 1800 | 140 | 0.27 | 1.80 | 0.99 | 0.058 | 180 | 140 | 0.27 | 1.80 | 0.99 | 0.058 |
| 11 | 6.857 | 1600 | 130 | 0.28 | 1.60 | 0.94 | 0.058 | 160 | 130 | 0.28 | 1.60 | 0.94 | 0.058 |
| 12 | 7.368 | 1400 | 120 | 0.29 | 1.40 | 0.89 | 0.058 | 140 | 120 | 0.29 | 1.40 | 0.89 | 0.058 |
| 13 | 7.879 | 1200 | 110 | 0.30 | 1.20 | 0.84 | 0.058 | 120 | 110 | 0.30 | 1.20 | 0.84 | 0.058 |
| 14 | 8.390 | 1000 | 100 | 0.31 | 1.00 | 0.79 | 0.058 | 100 | 100 | 0.31 | 1.00 | 0.79 | 0.058 |
| 15 | 8.901 | 800 | 80 | 0.32 | 0.80 | 0.74 | 0.058 | 80 | 80 | 0.32 | 0.80 | 0.74 | 0.058 |
| 16 | 9.412 | 600 | 60 | 0.33 | 0.60 | 0.69 | 0.058 | 60 | 60 | 0.33 | 0.60 | 0.69 | 0.058 |
| 17 | 9.923 | 400 | 40 | 0.34 | 0.40 | 0.64 | 0.058 | 40 | 40 | 0.34 | 0.40 | 0.64 | 0.058 |
| 18 | 10.434 | 200 | 20 | 0.35 | 0.20 | 0.59 | 0.058 | 20 | 20 | 0.35 | 0.20 | 0.59 | 0.058 |
| 19 | 10.945 | 100 | 10 | 0.36 | 0.10 | 0.54 | 0.058 | 10 | 10 | 0.36 | 0.10 | 0.54 | 0.058 |
| 20 | 11.456 | 50 | 5 | 0.37 | 0.05 | 0.49 | 0.058 | 5 | 5 | 0.37 | 0.05 | 0.49 | 0.058 |

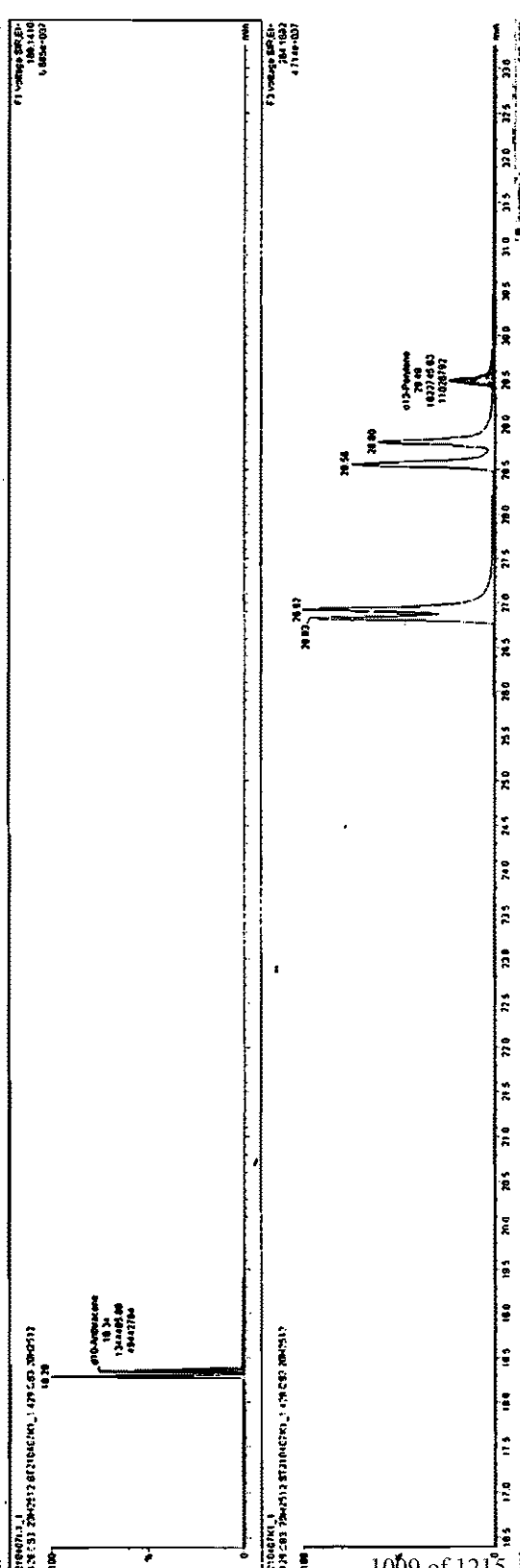




| Retention Time (min) | Abundance |
|----------------------|-----------|
| 10.32 | 140000 |
| 10.34 | 100000 |

11/28/2018 11:45:58 [Chromatogram]

Table with 10 columns: Ret, Amp, Wt%, ID, Int, Wt%, ID, Int, Wt%, ID, Int. It contains data for various compounds and their retention times.



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

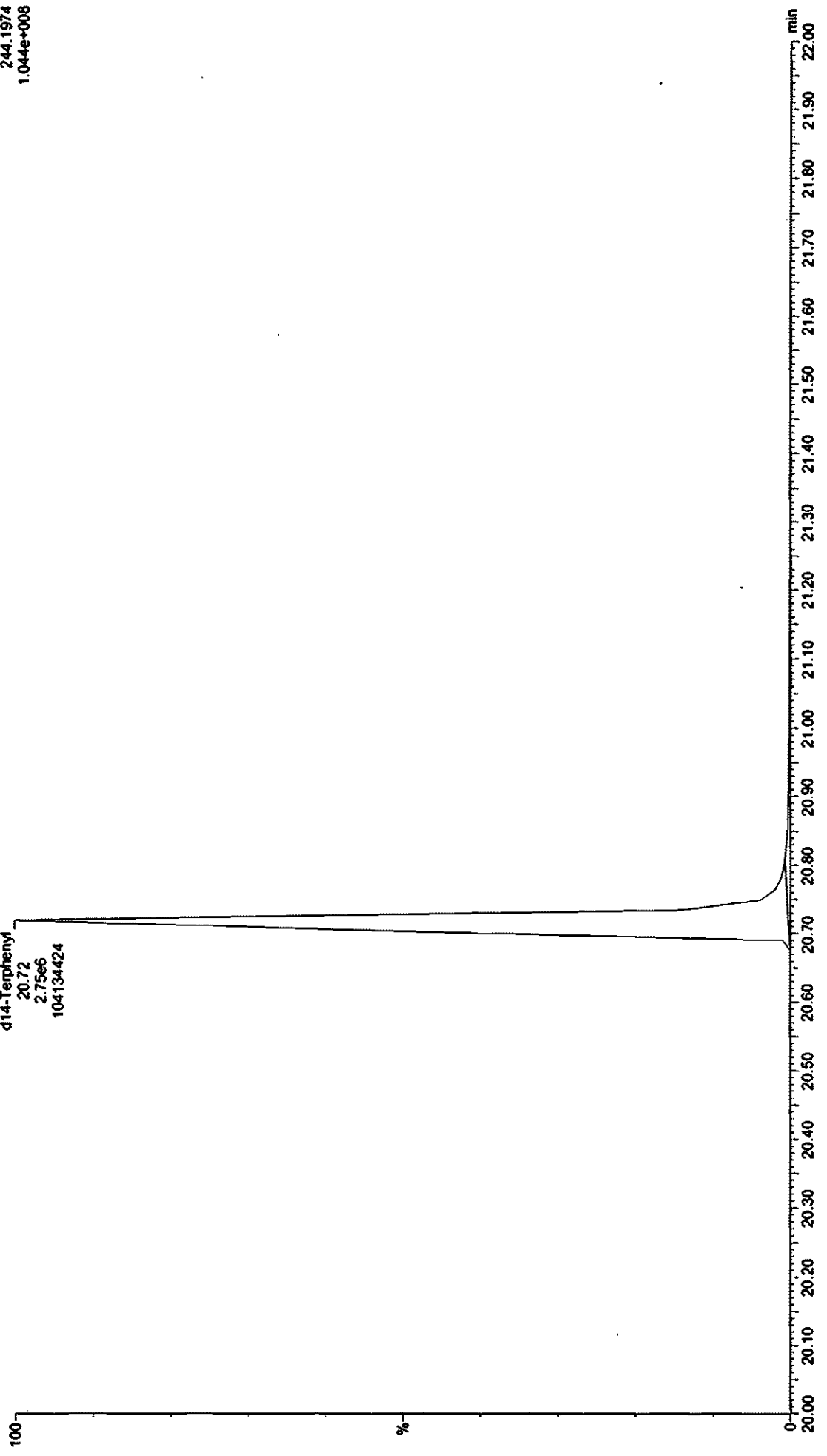
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

d14-Terphenyl (PS)

F2:Voltage SIR,EI+
244.1974
1.044e+008

d14-Terphenyl
20.72
2.75e6
104134424



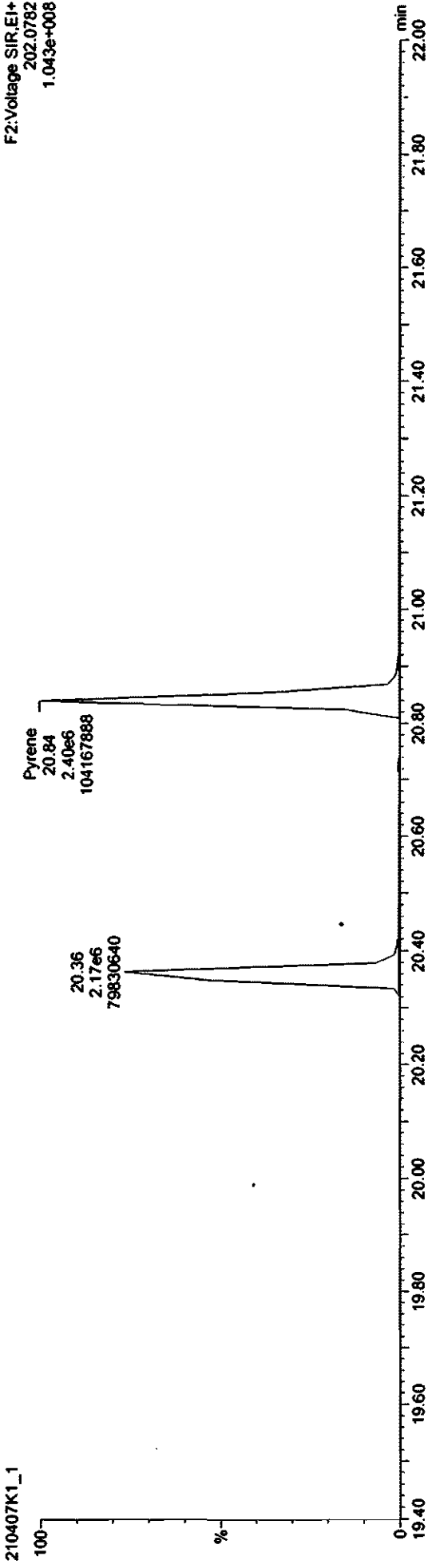
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

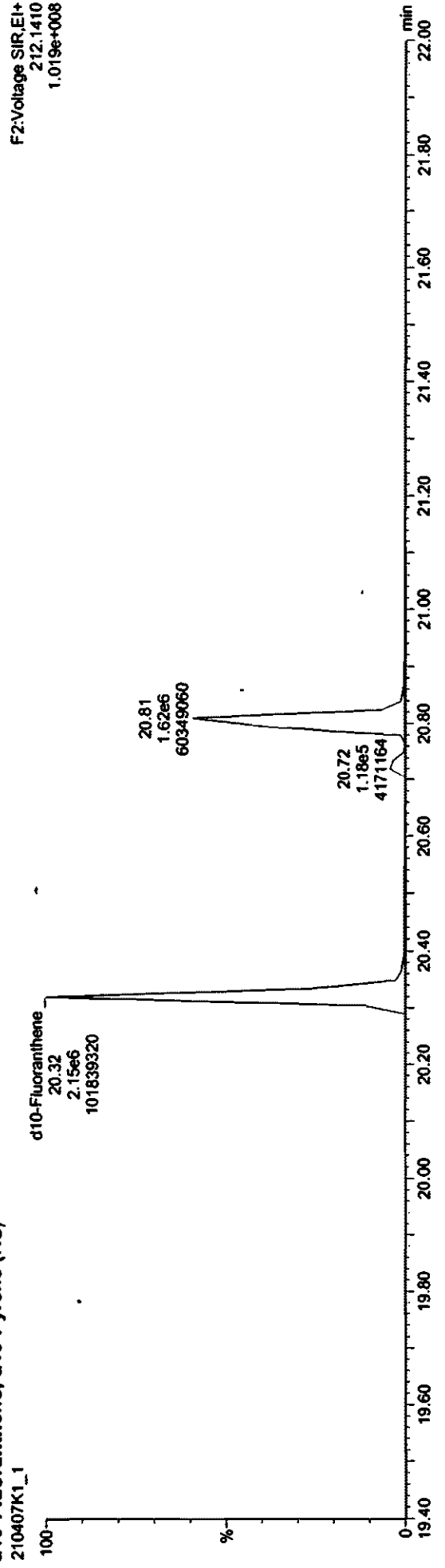
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
1.043e+008



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
1.019e+008



Dataset: Untitled

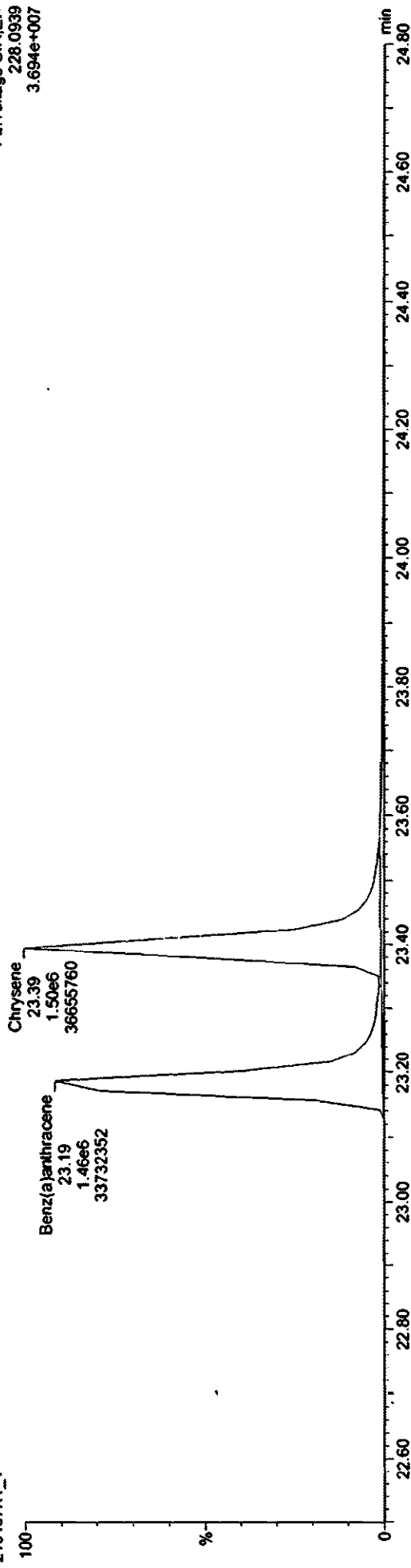
Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

Benz(a)Anthracene-Chrysene

210407K1_1

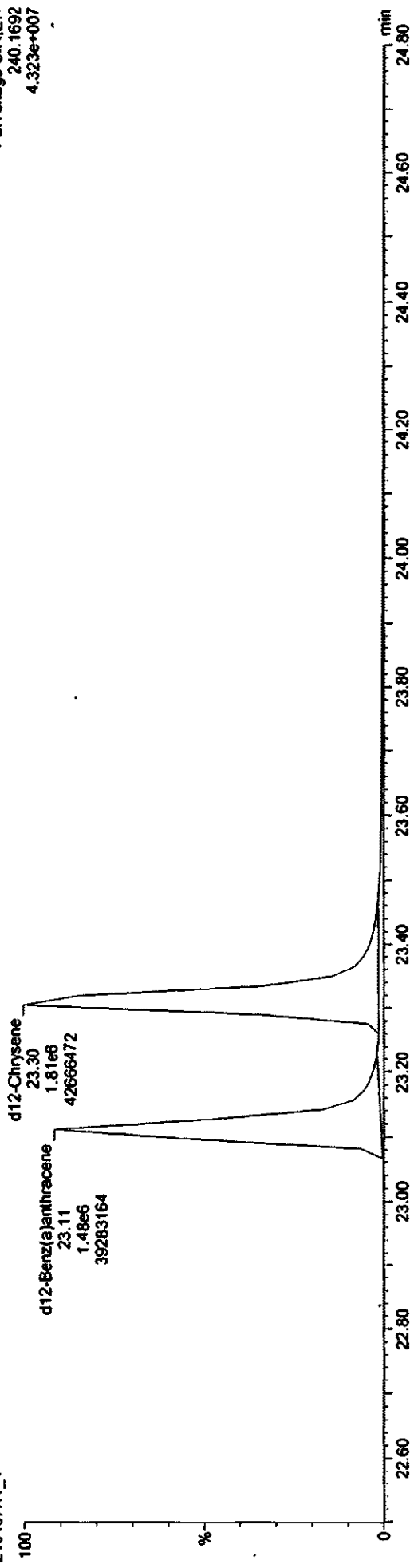
F2:Voltage SIR.EI+
228.0939
3.694e+007



Benz(a)Anthracene-Chrysene-iso

210407K1_1

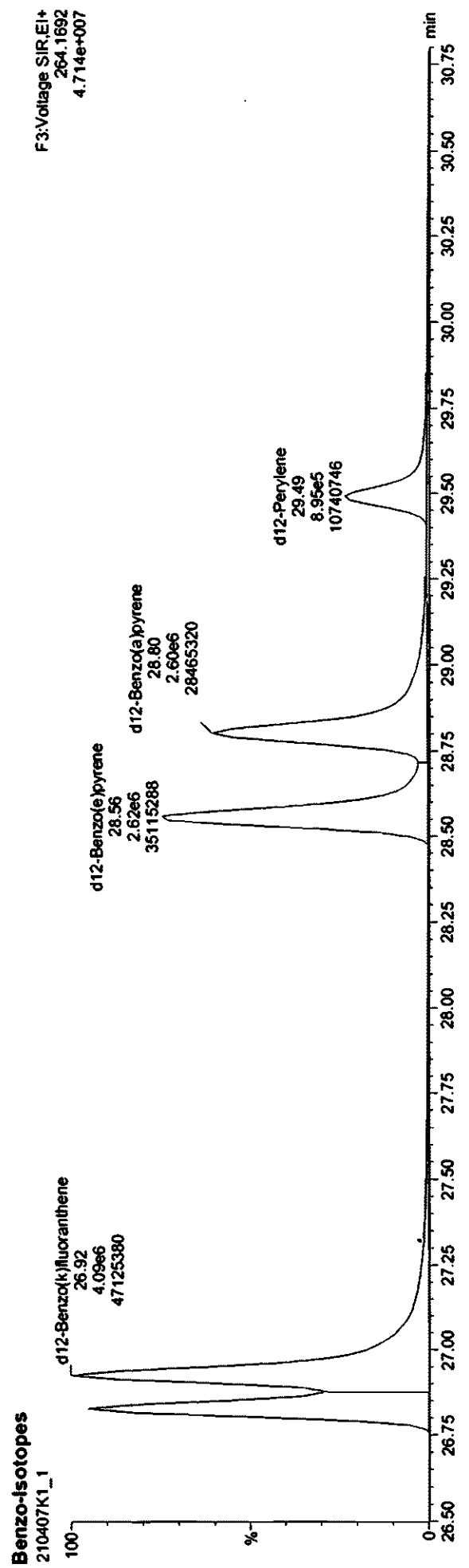
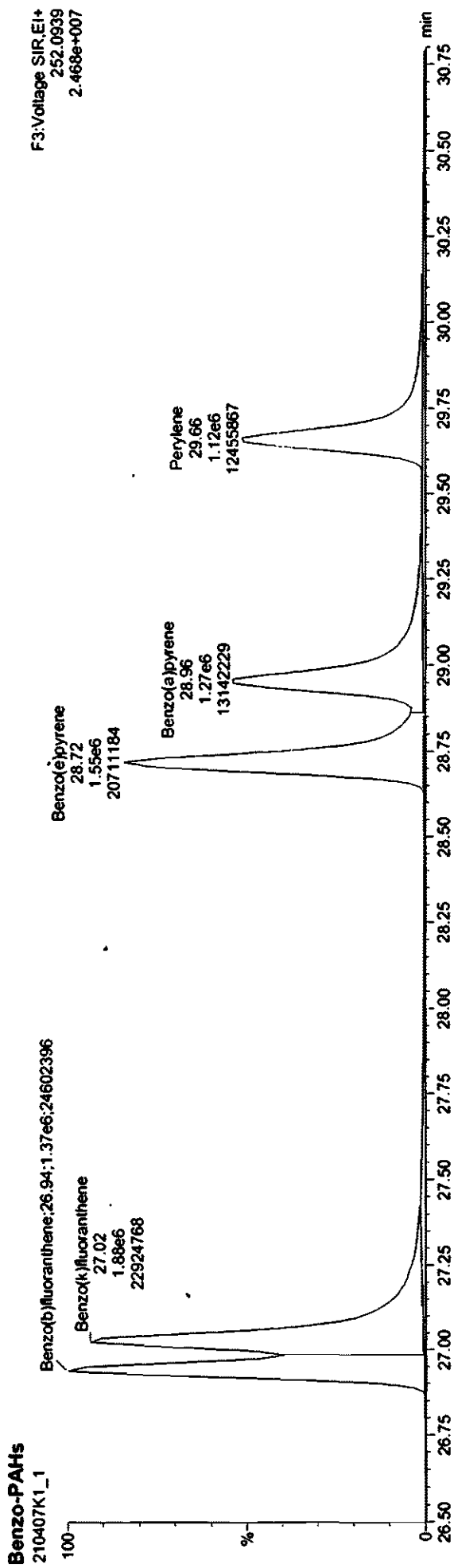
F2:Voltage SIR.EI+
240.1692
4.323e+007



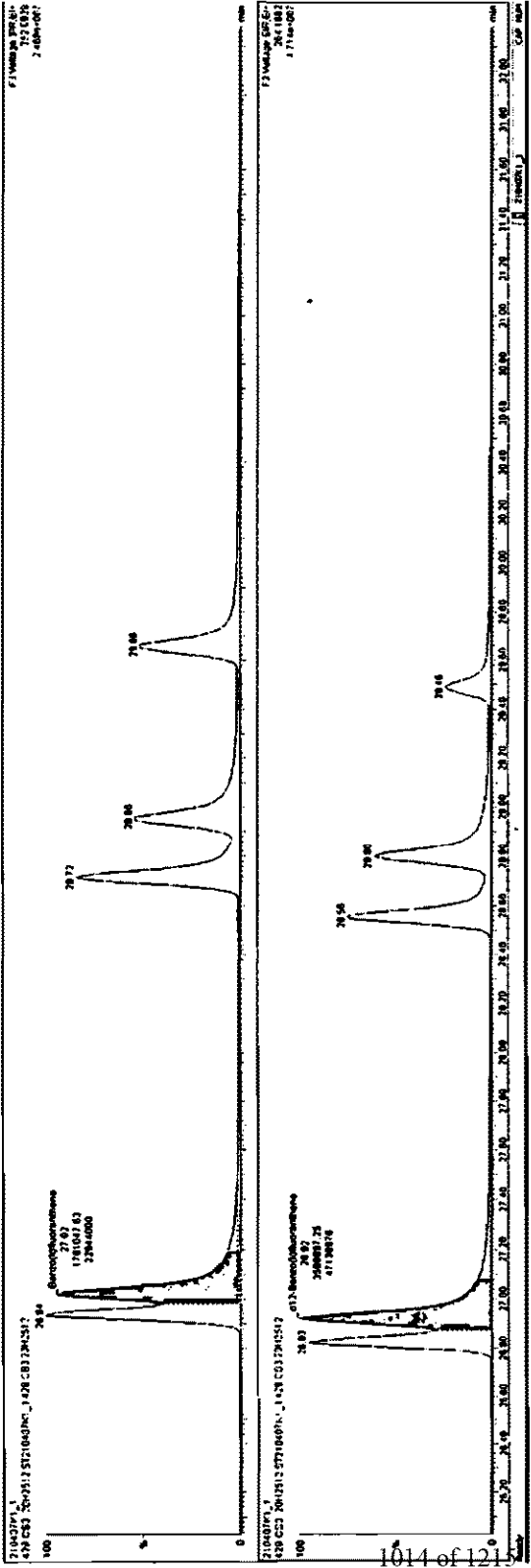
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512



| Area | Area% | Height | Height% | RT | RT | Area | Area% | Height | Height% |
|------|-------|--------|---------|-------|-------|------|-------|--------|---------|
| 1 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 11 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 12 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 13 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 14 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 15 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 16 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 17 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 18 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 19 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 20 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 21 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 22 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 23 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 24 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 25 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 26 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 27 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 28 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 29 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 30 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 31 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 32 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 33 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 34 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 35 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 36 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 37 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 38 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 39 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 40 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 41 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 42 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 43 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 44 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 45 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 46 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 47 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 48 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 49 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |
| 50 | 1.00 | 1.78 | 1.52 | 10.14 | 10.15 | 1.00 | 1.00 | 1.00 | 1.00 |



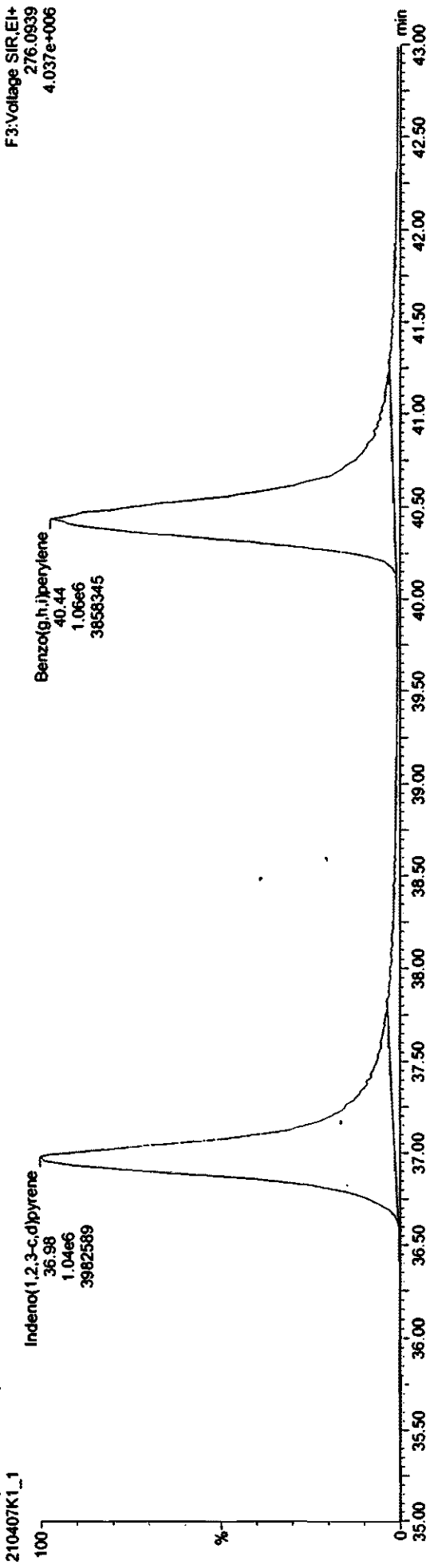
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1 429 CS3 20H2512, Description: 429 CS3 20H2512

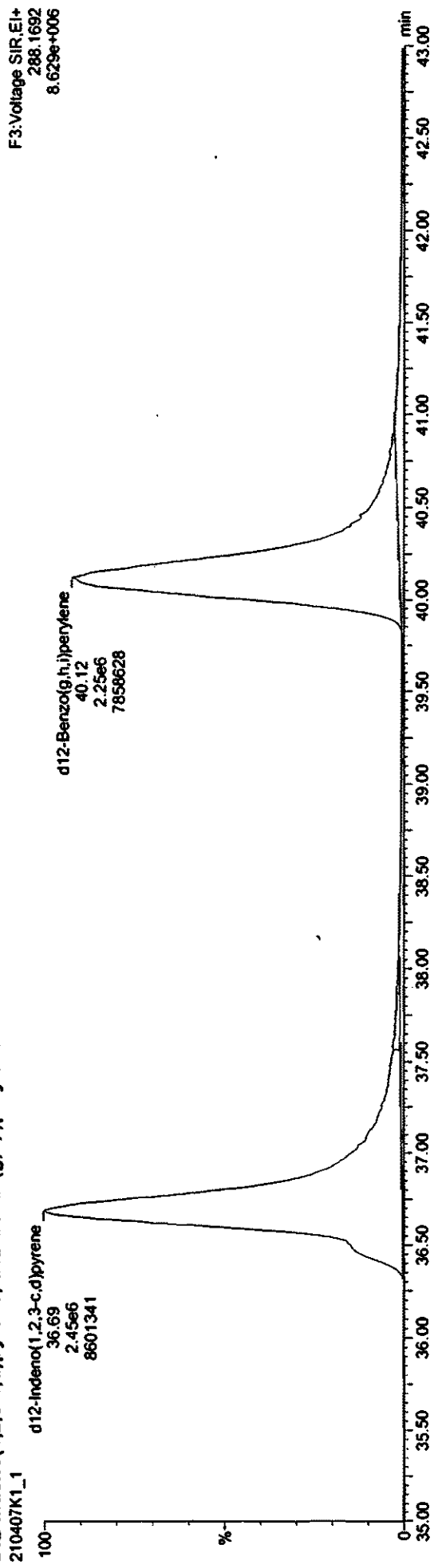
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
4.037e+006



d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
288.1692
8.629e+006



Quantify Sample Report
Vista Analytical Laboratory

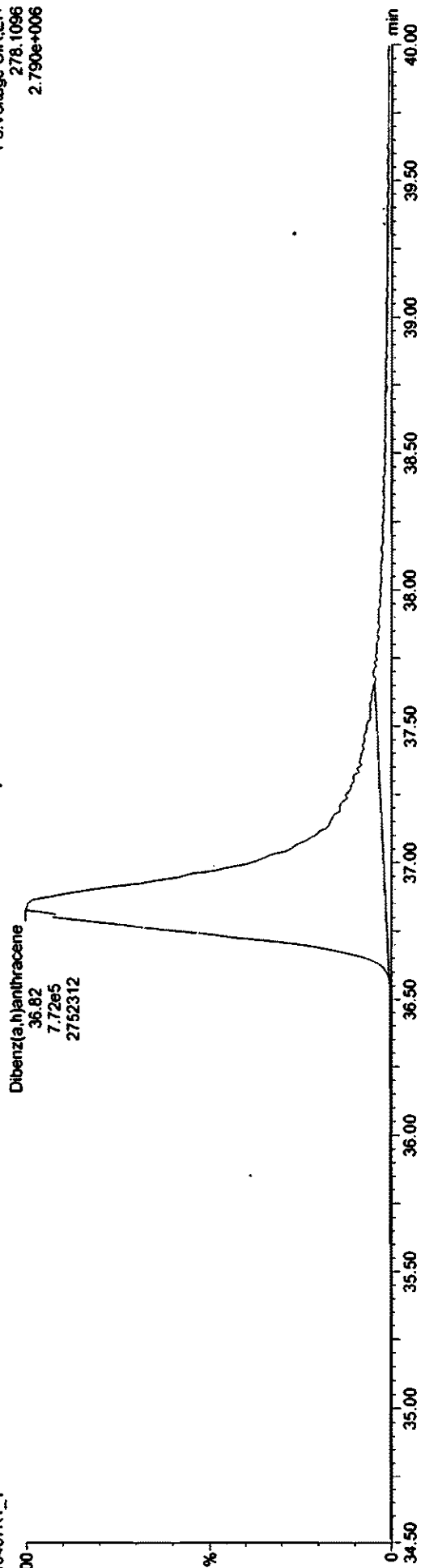
Dataset: Untitled

Last Altered: Thursday, April 08, 2021 9:21:25 AM Pacific Daylight Time
Printed: Thursday, April 08, 2021 9:23:23 AM Pacific Daylight Time

Name: 210407K1_1, Date: 07-Apr-2021, Time: 16:03:21, ID: ST210407K1_1_429 CS3 20H2512, Description: 429 CS3 20H2512

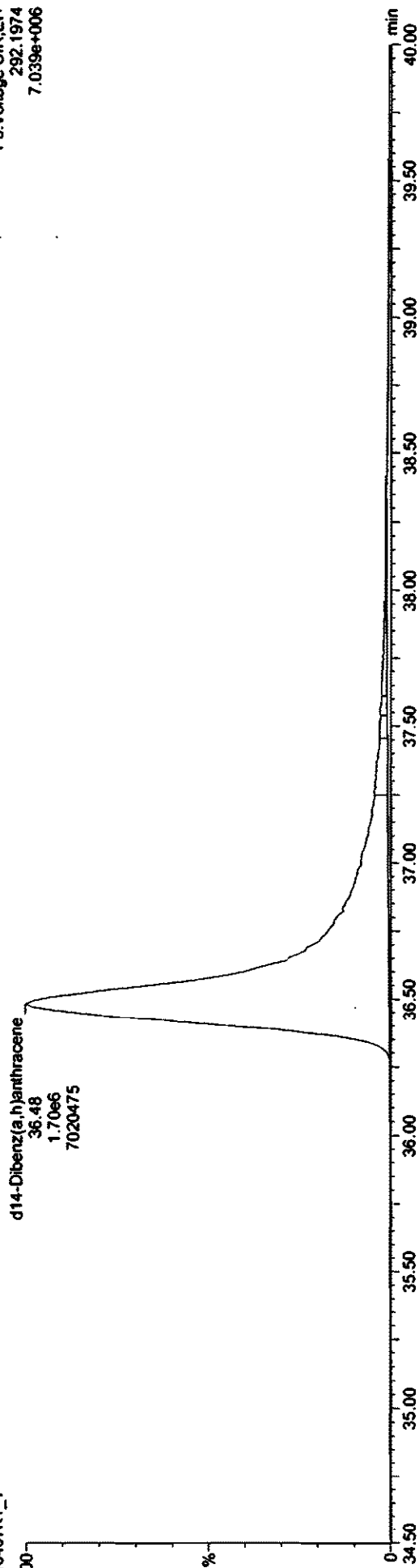
Dibenz(a,h)anthracene
210407K1_1

F3:Voltage SIR,EI+
278.1096
2.790e+006



d14-Dibenz(a,h)anthracene
210407K1_1

F3:Voltage SIR,EI+
292.1974
7.039e+006



INITIAL CALIBRATION

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Handwritten notes:
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Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\vb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Compound name: Naphthalene
Response Factor: 1.15973
RRF SD: 0.0180321, Relative SD: 1.55484
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|--------------|------------|-------|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 210401K2_1 | 25.0 | 10.18 | 10.06 | 1.006 | 4.40e5 | 1.50e6 | 25.3 | 1.3 | 1.18 | bb |
| 2 210401K2_3 | 500 | 10.16 | 10.06 | 1.006 | 1.01e7 | 1.74e6 | 501 | 0.1 | 1.16 | bb |
| 3 210401K2_4 | 125 | 10.16 | 10.05 | 1.005 | 2.78e6 | 1.89e6 | 127 | 1.7 | 1.18 | bb |
| 4 210401K2_5 | 1250 | 10.18 | 10.06 | 1.006 | 2.78e7 | 1.95e6 | 1230 | -1.6 | 1.14 | bb |
| 5 210401K2_6 | 250 | 10.16 | 1.006 | 1.006 | 5.88e6 | 2.06e6 | 245 | -1.6 | 1.14 | bb |

Compound name: Naphthalene-2nd
Response Factor: 0.127893
RRF SD: 0.0031115, Relative SD: 2.43563
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|--------------|------------|-------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 210401K2_1 | 25.0 | 10.16 | 1.005 | 1.005 | 4.91e4 | 1.50e6 | 25.7 | 2.6 | 0.131 | bb |
| 2 210401K2_3 | 500 | 10.16 | 1.006 | 1.006 | 1.12e6 | 1.74e6 | 503 | 0.5 | 0.129 | bb |
| 3 210401K2_4 | 125 | 10.16 | 1.005 | 1.005 | 3.08e5 | 1.89e6 | 127 | 1.8 | 0.130 | bb |
| 4 210401K2_5 | 1250 | 10.18 | 1.006 | 1.006 | 3.02e6 | 1.95e6 | 1210 | -3.1 | 0.124 | bb |
| 5 210401K2_6 | 250 | 10.16 | 1.006 | 1.006 | 6.46e5 | 2.06e6 | 245 | -1.8 | 0.126 | bb |

Compound name: 2-Methylnaphthalene
Response Factor: 1.37694
RRF SD: 0.0799214, Relative SD: 5.80428
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|--------------|------------|-------|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 210401K2_1 | 10.0 | 11.62 | 0.795 | 0.795 | 9.76e4 | 7.81e5 | 9.08 | -9.2 | 1.25 | bb |

Quantify Compound Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
 Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: 2-Methylnaphthalene

| Name | Std. Conc. | RA | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------------|------------|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_3 | 200 | | 11.62 | 0.796 | 2.33e6 | 8.35e5 | 202 | 1.2 | 1.39 | bb |
| 210401K2_4 | 50.0 | | 11.62 | 0.795 | 6.59e5 | 9.14e5 | 52.3 | 4.6 | 1.44 | bb |
| 210401K2_5 | 500 | | 11.62 | 0.795 | 6.93e6 | 1.02e6 | 492 | -1.5 | 1.36 | bb |
| 210401K2_6 | 100 | | 11.62 | 0.796 | 1.37e6 | 9.51e5 | 105 | 4.9 | 1.44 | bb |

Compound name: Acenaphthylene

Response Factor: 1.11665
 RRF SD: 0.0148279, Relative SD: 1.3279
 Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------------|------------|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_1 | 10.0 | | 14.39 | 1.003 | 1.32e5 | 1.19e6 | 9.94 | -0.6 | 1.11 | bb |
| 210401K2_3 | 200 | | 14.37 | 1.003 | 2.83e6 | 1.26e6 | 202 | 0.8 | 1.13 | bb |
| 210401K2_4 | 50.0 | | 14.37 | 1.003 | 7.62e5 | 1.39e6 | 49.0 | -2.0 | 1.09 | bb |
| 210401K2_5 | 500 | | 14.37 | 1.002 | 8.70e6 | 1.55e6 | 502 | 0.5 | 1.12 | bb |
| 210401K2_6 | 100 | | 14.37 | 1.003 | 1.67e6 | 1.49e6 | 101 | 1.3 | 1.13 | bb |

Compound name: Acenaphthene

Response Factor: 1.10245
 RRF SD: 0.0274302, Relative SD: 2.48811
 Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------------|------------|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_1 | 10.0 | | 14.72 | 1.007 | 8.32e4 | 7.81e5 | 9.66 | -3.4 | 1.06 | bb |
| 210401K2_3 | 200 | | 14.70 | 1.006 | 1.81e6 | 8.35e5 | 197 | -1.7 | 1.08 | bb |
| 210401K2_4 | 50.0 | | 14.70 | 1.006 | 5.16e5 | 9.14e5 | 51.3 | 2.5 | 1.13 | bb |
| 210401K2_5 | 500 | | 14.72 | 1.007 | 5.68e6 | 1.02e6 | 504 | 0.8 | 1.11 | bb |
| 210401K2_6 | 100 | | 14.70 | 1.006 | 1.07e6 | 9.51e5 | 102 | 1.8 | 1.12 | bb |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: Fluorene

Response Factor: 1.15391

RRF SD: 0.0239027, Relative SD: 2.07145

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-------|-------|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 10.0 | 15.94 | 1.006 | 15.94 | 1.006 | 8.31e4 | 7.42e5 | 9.71 | -2.9 | 1.12 | bb |
| 2 | 200 | 15.94 | 1.006 | 15.94 | 1.006 | 1.83e6 | 7.89e5 | 200 | 0.2 | 1.16 | bb |
| 3 | 50.0 | 15.94 | 1.006 | 15.94 | 1.006 | 5.06e5 | 8.69e5 | 50.5 | 1.0 | 1.17 | bb |
| 4 | 500 | 15.94 | 1.006 | 15.94 | 1.006 | 5.86e6 | 9.89e5 | 513 | 2.6 | 1.18 | bb |
| 5 | 100 | 15.94 | 1.006 | 15.94 | 1.006 | 1.00e6 | 8.77e5 | 99.0 | -1.0 | 1.14 | bb |

Compound name: Phenanthrene

Response Factor: 1.18944

RRF SD: 0.0545992, Relative SD: 4.59033

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-------|-------|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 25.0 | 18.34 | 1.003 | 18.34 | 1.003 | 2.74e5 | 9.49e5 | 24.3 | -2.8 | 1.16 | MM |
| 2 | 500 | 18.34 | 1.002 | 18.34 | 1.002 | 6.15e6 | 1.00e6 | 517 | 3.4 | 1.23 | bd |
| 3 | 125 | 18.34 | 1.003 | 18.34 | 1.003 | 1.73e6 | 1.13e6 | 129 | 3.2 | 1.23 | bd |
| 4 | 1250 | 18.34 | 1.003 | 18.34 | 1.003 | 1.88e7 | 1.36e6 | 1170 | -6.8 | 1.11 | bd |
| 5 | 250 | 18.34 | 1.003 | 18.34 | 1.003 | 3.52e6 | 1.15e6 | 257 | 2.9 | 1.22 | MM |

Compound name: Phenanthrene-2nd

Response Factor: 0.0924947

RRF SD: 0.00820607, Relative SD: 6.87194

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-------|-------|-------|-------|--------|----------|-------|-------|--------|-------------|
| 1 | 25.0 | 18.34 | 1.003 | 18.34 | 1.003 | 2.06e4 | 9.49e5 | 23.5 | -5.9 | 0.0871 | MM |
| 2 | 500 | 18.34 | 1.002 | 18.34 | 1.002 | 4.65e5 | 1.00e6 | 503 | 0.6 | 0.0931 | bd |
| 3 | 125 | 18.34 | 1.003 | 18.34 | 1.003 | 1.29e5 | 1.13e6 | 124 | -1.0 | 0.0916 | bd |
| 4 | 1250 | 18.34 | 1.003 | 18.34 | 1.003 | 1.44e6 | 1.36e6 | 1150 | -8.3 | 0.0849 | bd |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld
Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: Phenanthrene-2nd

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_6 | 250 | | | 18.34 | 1.003 | 3.05e5 | 1.15e6 | 286 | 14.5 | 0.106 | MM |

Compound name: Anthracene

Response Factor: 1.09104
RRF SD: 0.0308545, Relative SD: 2.82799
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_1 | 10.0 | | | 18.40 | 1.006 | 1.07e5 | 9.48e5 | 10.4 | 3.9 | 1.13 | MM |
| 210401K2_3 | 200 | | | 18.40 | 1.006 | 2.10e6 | 1.00e6 | 192 | -3.9 | 1.05 | cb |
| 210401K2_4 | 50.0 | | | 18.40 | 1.006 | 6.20e5 | 1.13e6 | 50.4 | 0.9 | 1.10 | cb |
| 210401K2_5 | 500 | | | 18.40 | 1.006 | 7.36e6 | 1.36e6 | 496 | -0.8 | 1.08 | cb |
| 210401K2_6 | 100 | | | 18.38 | 1.006 | 1.25e6 | 1.15e6 | 100 | -0.0 | 1.09 | MM |

Compound name: Fluoranthene

Response Factor: 1.09951
RRF SD: 0.0202108, Relative SD: 1.83816
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_1 | 10.0 | | | 20.38 | 1.002 | 1.81e5 | 1.68e6 | 9.80 | -2.0 | 1.08 | bb |
| 210401K2_3 | 200 | | | 20.36 | 1.001 | 4.02e6 | 1.85e6 | 198 | -1.0 | 1.09 | bb |
| 210401K2_4 | 50.0 | | | 20.36 | 1.002 | 1.14e6 | 2.02e6 | 51.3 | 2.6 | 1.13 | bb |
| 210401K2_5 | 500 | | | 20.36 | 1.002 | 1.17e7 | 2.11e6 | 506 | 1.2 | 1.11 | bb |
| 210401K2_6 | 100 | | | 20.36 | 1.002 | 2.27e6 | 2.08e6 | 99.3 | -0.7 | 1.09 | bb |

Quantify Compound Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
 Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: Pyrene
 Response Factor: 1.19809
 RRF SD: 0.0140443, Relative SD: 1.17222
 Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | n/y | RT | RRF | Resp. | IS Resp. | Conc. | %Dev. | RRF: X = dropped |
|--------------|------------|----|-----|-------|-------|--------|----------|-------|-------|------------------|
| 1 210401K2_1 | 10.0 | | | 20.85 | 1.026 | 2.00e5 | 1.68e6 | 9.93 | -0.7 | 1.19 |
| 2 210401K2_3 | 200 | | | 20.85 | 1.026 | 4.39e6 | 1.85e6 | 198 | -0.8 | 1.19 |
| 3 210401K2_4 | 50.0 | | | 20.85 | 1.026 | 1.23e6 | 2.02e6 | 50.9 | 1.8 | 1.22 |
| 4 210401K2_5 | 500 | | | 20.85 | 1.026 | 1.27e7 | 2.11e6 | 502 | 0.5 | 1.20 |
| 5 210401K2_6 | 100 | | | 20.85 | 1.026 | 2.47e6 | 2.08e6 | 99.1 | -0.9 | 1.19 |

Compound name: Benz(a)anthracene
 Response Factor: 0.961302
 RRF SD: 0.0252463, Relative SD: 2.62626
 Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | n/y | RT | RRF | Resp. | IS Resp. | Conc. | %Dev. | RRF: X = dropped |
|--------------|------------|----|-----|-------|-------|--------|----------|-------|-------|------------------|
| 1 210401K2_1 | 10.0 | | | 23.22 | 1.003 | 1.03e5 | 1.11e6 | 9.61 | -3.9 | 0.923 |
| 2 210401K2_3 | 200 | | | 23.20 | 1.003 | 2.48e6 | 1.27e6 | 204 | 1.8 | 0.978 |
| 3 210401K2_4 | 50.0 | | | 23.17 | 1.003 | 7.22e5 | 1.48e6 | 50.8 | 1.6 | 0.976 |
| 4 210401K2_5 | 500 | | | 23.17 | 1.003 | 7.51e6 | 1.58e6 | 493 | -1.5 | 0.947 |
| 5 210401K2_6 | 100 | | | 23.20 | 1.003 | 1.37e6 | 1.40e6 | 102 | 2.1 | 0.981 |

Compound name: Chrysene
 Response Factor: 0.851913
 RRF SD: 0.0280349, Relative SD: 3.29082
 Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | n/y | RT | RRF | Resp. | IS Resp. | Conc. | %Dev. | RRF: X = dropped |
|--------------|------------|----|-----|-------|-------|--------|----------|-------|-------|------------------|
| 1 210401K2_1 | 10.0 | | | 23.42 | 1.004 | 1.05e5 | 1.29e6 | 9.53 | -4.7 | 0.812 |
| 2 210401K2_3 | 200 | | | 23.41 | 1.004 | 2.51e6 | 1.48e6 | 199 | -0.7 | 0.846 |
| 3 210401K2_4 | 50.0 | | | 23.38 | 1.003 | 7.05e5 | 1.61e6 | 51.5 | 3.0 | 0.877 |
| 4 210401K2_5 | 500 | | | 23.39 | 1.004 | 7.39e6 | 1.75e6 | 495 | -1.0 | 0.843 |

Quantify Compound Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld
 Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
 Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: Chrysene

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_6 | 100 | | | 23.41 | 1.003 | 1.42e6 | 1.62e6 | 103 | 3.3 | 0.880 | MM |

Compound name: Benzo(b)fluoranthene

Response Factor: 1.10484
 RRF SD: 0.0620022, Relative SD: 5.61186
 Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_1 | 10.0 | | | 27.02 | 1.005 | 1.20e5 | 2.18e6 | 9.97 | -0.3 | 1.10 | dd |
| 210401K2_3 | 200 | | | 27.05 | 1.004 | 2.59e6 | 2.59e6 | 181 | -9.4 | 1.00 | bd |
| 210401K2_4 | 50.0 | | | 26.97 | 1.005 | 7.69e5 | 2.74e6 | 50.7 | 1.5 | 1.12 | dd |
| 210401K2_5 | 500 | | | 27.01 | 1.005 | 7.91e6 | 2.73e6 | 525 | 4.9 | 1.16 | bd |
| 210401K2_6 | 100 | | | 26.95 | 1.004 | 1.50e6 | 2.64e6 | 103 | 3.3 | 1.14 | dd |

Compound name: Benzo(k)fluoranthene

Response Factor: 1.03762
 RRF SD: 0.058133, Relative SD: 5.60252
 Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 10.0 | | | 27.12 | 1.004 | 1.31e5 | 2.70e6 | 9.34 | -6.6 | 0.969 | MM |
| 210401K2_3 | 200 | | | 27.14 | 1.004 | 3.41e6 | 3.14e6 | 210 | 4.8 | 1.09 | MM |
| 210401K2_4 | 50.0 | | | 27.07 | 1.004 | 9.51e5 | 3.44e6 | 53.3 | 6.6 | 1.11 | MM |
| 210401K2_5 | 500 | | | 27.10 | 1.004 | 9.07e6 | 3.64e6 | 481 | -3.8 | 0.998 | db |
| 210401K2_6 | 100 | | | 27.03 | 1.004 | 1.80e6 | 3.51e6 | 99.0 | -1.0 | 1.03 | MM |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: Benzo(e)pyrene
Response Factor: 0.911484
RRF SD: 0.0132601, Relative SD: 1.45478
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 | 10.0 | | | 28.90 | 1.070 | 1.22e5 | 2.70e6 | 9.94 | -0.6 | 0.906 | MM |
| 2 | 200 | | | 28.86 | 1.068 | 2.88e6 | 3.14e6 | 201 | 0.7 | 0.918 | bd |
| 3 | 50.0 | | | 28.76 | 1.067 | 8.00e5 | 3.44e6 | 51.0 | 2.1 | 0.930 | MM |
| 4 | 500 | | | 28.81 | 1.067 | 8.24e6 | 3.64e6 | 498 | -0.5 | 0.907 | bd |
| 5 | 100 | | | 28.73 | 1.067 | 1.57e6 | 3.51e6 | 98.3 | -1.7 | 0.896 | bd |

Compound name: Benzo(a)pyrene
Response Factor: 1.01571
RRF SD: 0.0341411, Relative SD: 3.36129
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 | 10.0 | | | 29.15 | 1.006 | 1.07e5 | 2.23e6 | 9.46 | -5.4 | 0.961 | MM |
| 2 | 200 | | | 29.10 | 1.005 | 2.72e6 | 2.66e6 | 201 | 0.6 | 1.02 | db |
| 3 | 50.0 | | | 29.01 | 1.005 | 7.17e5 | 2.79e6 | 50.6 | 1.3 | 1.03 | db |
| 4 | 500 | | | 29.06 | 1.005 | 7.89e6 | 3.00e6 | 519 | 3.7 | 1.05 | db |
| 5 | 100 | | | 28.97 | 1.005 | 1.44e6 | 2.83e6 | 99.9 | -0.1 | 1.01 | db |

Compound name: Perylene
Response Factor: 0.987377
RRF SD: 0.0370306, Relative SD: 3.7504
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 | 10.0 | | | 29.81 | 1.028 | 1.03e5 | 2.23e6 | 9.37 | -6.3 | 0.925 | MM |
| 2 | 200 | | | 29.89 | 1.033 | 2.63e6 | 2.66e6 | 200 | -0.0 | 0.987 | bd |
| 3 | 50.0 | | | 29.76 | 1.031 | 7.08e5 | 2.79e6 | 51.4 | 2.8 | 1.02 | MM |
| 4 | 500 | | | 29.75 | 1.029 | 7.60e6 | 3.00e6 | 514 | 2.7 | 1.01 | bb |

Quantify Compound Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
 Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: Perylene

| Name | Std. Conc. | RA | n/y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = |
|------------|------------|----|-----|-------|-------|--------|----------|-------|-------|-------|-----|
| 210401K2_6 | 100 | | | 29.67 | 1.030 | 1.41e6 | 2.83e6 | 101 | 0.8 | 0.995 | bb |

Compound name: Indeno(1,2,3-c,d)pyrene

Response Factor: 0.914956
 RRF SD: 0.0498137, Relative SD: 5.4438
 Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | n/y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = |
|------------|------------|----|-----|-------|-------|--------|----------|-------|-------|-------|-----|
| 210401K2_1 | 10.0 | | | 37.26 | 1.006 | 7.91e4 | 1.90e6 | 9.08 | -9.2 | 0.831 | MM |
| 210401K2_3 | 200 | | | 37.35 | 1.008 | 1.99e6 | 2.15e6 | 202 | 1.2 | 0.926 | MM |
| 210401K2_4 | 50.0 | | | 37.15 | 1.007 | 5.22e5 | 2.26e6 | 50.4 | 0.8 | 0.922 | MM |
| 210401K2_5 | 500 | | | 37.33 | 1.009 | 5.93e6 | 2.46e6 | 526 | 5.2 | 0.963 | MM |
| 210401K2_6 | 100 | | | 37.25 | 1.006 | 1.09e6 | 2.33e6 | 102 | 2.0 | 0.933 | MM |

Compound name: Benzo(g,h,i)perylene

Response Factor: 0.940245
 RRF SD: 0.0396648, Relative SD: 4.21856
 Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
 Curve type: RF

| Name | Std. Conc. | RA | n/y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = |
|------------|------------|----|-----|-------|-------|--------|----------|-------|-------|-------|-----|
| 210401K2_1 | 10.0 | | | 40.79 | 1.007 | 8.15e4 | 1.82e6 | 9.51 | -4.9 | 0.894 | MM |
| 210401K2_3 | 200 | | | 40.68 | 1.007 | 2.04e6 | 2.13e6 | 203 | 1.6 | 0.956 | bb |
| 210401K2_4 | 50.0 | | | 40.69 | 1.009 | 5.47e5 | 2.35e6 | 49.6 | -0.8 | 0.933 | bb |
| 210401K2_5 | 500 | | | 40.28 | 1.006 | 5.83e6 | 2.33e6 | 531 | 6.2 | 0.999 | bb |
| 210401K2_6 | 100 | | | 40.36 | 1.008 | 1.07e6 | 2.32e6 | 97.9 | -2.1 | 0.920 | bb |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: Dibenz(a,h)anthracene

Response Factor: 0.947599

RRF SD: 0.0642343, Relative SD: 6.77864

Response type: Internal Std (Ref 35), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 10.0 | | | 37.25 | 1.011 | 6.09e4 | 1.42e6 | 9.03 | -9.7 | 0.856 | MM |
| 210401K2_3 | 200 | | | 37.27 | 1.010 | 1.57e6 | 1.65e6 | 201 | 0.3 | 0.951 | MM |
| 210401K2_4 | 50.0 | | | 37.08 | 1.011 | 4.03e5 | 1.72e6 | 49.6 | -0.9 | 0.939 | MM |
| 210401K2_5 | 500 | | | 37.30 | 1.012 | 4.71e6 | 1.82e6 | 547 | 9.4 | 1.04 | MM |
| 210401K2_6 | 100 | | | 37.21 | 1.007 | 8.28e5 | 1.73e6 | 101 | 0.9 | 0.956 | MM |

Compound name: db-Naphthalene

Response Factor: 1.20367

RRF SD: 0.0352776, Relative SD: 2.93085

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_1 | 100 | | | 10.11 | 0.848 | 1.50e6 | 1.28e6 | 90.9 | -3.1 | 1.17 | bb |
| 210401K2_3 | 100 | | | 10.10 | 0.847 | 1.74e6 | 1.43e6 | 101 | 1.2 | 1.22 | bb |
| 210401K2_4 | 100 | | | 10.11 | 0.848 | 1.89e6 | 1.61e6 | 97.7 | -2.3 | 1.18 | bb |
| 210401K2_5 | 100 | | | 10.11 | 0.848 | 1.95e6 | 1.62e6 | 100 | 0.0 | 1.20 | bb |
| 210401K2_6 | 100 | | | 10.10 | 0.847 | 2.06e6 | 1.64e6 | 104 | 4.2 | 1.25 | bb |

Compound name: db-Acenaphthylene

Response Factor: 0.9048

RRF SD: 0.0370622, Relative SD: 4.09839

Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 100 | | | 14.34 | 1.202 | 1.19e6 | 1.28e6 | 102 | 2.3 | 0.926 | bb |
| 210401K2_3 | 100 | | | 14.32 | 1.201 | 1.26e6 | 1.43e6 | 97.1 | -2.9 | 0.879 | bb |
| 210401K2_4 | 100 | | | 14.32 | 1.201 | 1.39e6 | 1.61e6 | 95.5 | -4.5 | 0.864 | bb |
| 210401K2_5 | 100 | | | 14.34 | 1.202 | 1.55e6 | 1.62e6 | 106 | 5.7 | 0.957 | bb |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: **dB-Acenaphthylene**

| Name | Std. Conc. | RA | n _y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----------------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_6 | 100 | | | 14.32 | 1.201 | 1.48e6 | 1.64e6 | 99.3 | -0.7 | 0.898 | bb |

Compound name: **d10-Acenaphthene**

Response Factor: 0.593806
RRF SD: 0.025441, Relative SD: 4.2844
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | n _y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----------------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 100 | | | 14.61 | 1.225 | 7.81e5 | 1.28e6 | 102 | 2.5 | 0.608 | bb |
| 210401K2_3 | 100 | | | 14.61 | 1.225 | 8.35e5 | 1.43e6 | 98.4 | -1.6 | 0.584 | bb |
| 210401K2_4 | 100 | | | 14.61 | 1.225 | 9.14e5 | 1.61e6 | 95.5 | -4.5 | 0.567 | bb |
| 210401K2_5 | 100 | | | 14.61 | 1.225 | 1.02e6 | 1.62e6 | 106 | 6.2 | 0.631 | bb |
| 210401K2_6 | 100 | | | 14.61 | 1.225 | 9.51e5 | 1.64e6 | 97.5 | -2.5 | 0.579 | bb |

Compound name: **d10-Fluorene**

Response Factor: 0.562754
RRF SD: 0.0314615, Relative SD: 5.59062
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | n _y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----------------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 100 | | | 15.85 | 1.329 | 7.42e5 | 1.28e6 | 103 | 2.6 | 0.578 | bb |
| 210401K2_3 | 100 | | | 15.85 | 1.329 | 7.89e5 | 1.43e6 | 98.1 | -1.9 | 0.552 | bb |
| 210401K2_4 | 100 | | | 15.85 | 1.329 | 8.69e5 | 1.61e6 | 95.8 | -4.2 | 0.539 | bb |
| 210401K2_5 | 100 | | | 15.85 | 1.329 | 9.89e5 | 1.62e6 | 108 | 8.5 | 0.610 | bb |
| 210401K2_6 | 100 | | | 15.85 | 1.329 | 8.77e5 | 1.64e6 | 95.0 | -5.0 | 0.534 | bb |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: d10-Phenanthrene
Response Factor: 0.735398
RRF SD: 0.0600773, Relative SD: 8.16935
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | n _y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-----|----------------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 | 210401K2_1 | 100 | | 18.29 | 1.534 | 9.48e5 | 1.28e6 | 100 | 0.4 | 0.738 | bd |
| 2 | 210401K2_3 | 100 | | 18.29 | 1.534 | 1.00e6 | 1.43e6 | 95.2 | -4.8 | 0.700 | bd |
| 3 | 210401K2_4 | 100 | | 18.29 | 1.534 | 1.13e6 | 1.61e6 | 95.1 | -4.9 | 0.700 | bd |
| 4 | 210401K2_5 | 100 | | 18.29 | 1.534 | 1.36e6 | 1.62e6 | 114 | 14.1 | 0.839 | MM |
| 5 | 210401K2_6 | 100 | | 18.28 | 1.533 | 1.15e6 | 1.64e6 | 95.2 | -4.8 | 0.700 | bd |

Compound name: d10-Fluoranthene
Response Factor: 1.28564
RRF SD: 0.0227155, Relative SD: 1.76687
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | n _y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-----|----------------|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 210401K2_1 | 100 | | 20.33 | 0.976 | 1.68e6 | 1.28e6 | 102 | 1.9 | 1.31 | bd |
| 2 | 210401K2_3 | 100 | | 20.33 | 0.977 | 1.85e6 | 1.43e6 | 100 | 0.5 | 1.29 | bb |
| 3 | 210401K2_4 | 100 | | 20.33 | 0.977 | 2.02e6 | 1.61e6 | 97.7 | -2.3 | 1.26 | bb |
| 4 | 210401K2_5 | 100 | | 20.33 | 0.977 | 2.11e6 | 1.62e6 | 101 | 1.3 | 1.30 | bb |
| 5 | 210401K2_6 | 100 | | 20.32 | 0.976 | 2.08e6 | 1.64e6 | 98.6 | -1.4 | 1.27 | bb |

Compound name: d12-Benz(a)anthracene
Response Factor: 0.899801
RRF SD: 0.0505242, Relative SD: 5.61504
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | n _y | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-----|----------------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 | 210401K2_1 | 100 | | 23.14 | 1.111 | 1.11e6 | 1.28e6 | 96.3 | -3.7 | 0.867 | bd |
| 2 | 210401K2_3 | 100 | | 23.13 | 1.111 | 1.27e6 | 1.43e6 | 98.5 | -1.5 | 0.886 | bb |
| 3 | 210401K2_4 | 100 | | 23.11 | 1.111 | 1.48e6 | 1.61e6 | 102 | 2.0 | 0.918 | bd |
| 4 | 210401K2_5 | 100 | | 23.11 | 1.111 | 1.58e6 | 1.62e6 | 109 | 8.7 | 0.978 | bd |

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld
Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: d12-Benz(a)anthracene

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_6 | 100 | | | 23.14 | 1.112 | 1.40e6 | 1.64e6 | 94.5 | -5.5 | 0.850 | bd |

Compound name: d12-Chrysene

Response Factor: 1.02108
RRF SD: 0.0395777, Relative SD: 3.87607
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 100 | | | 23.33 | 1.121 | 1.29e6 | 1.28e6 | 98.3 | -1.7 | 1.00 | db |
| 210401K2_3 | 100 | | | 23.32 | 1.121 | 1.48e6 | 1.43e6 | 102 | 1.7 | 1.04 | bb |
| 210401K2_4 | 100 | | | 23.31 | 1.120 | 1.61e6 | 1.61e6 | 97.6 | -2.4 | 0.997 | db |
| 210401K2_5 | 100 | | | 23.31 | 1.120 | 1.75e6 | 1.62e6 | 106 | 6.0 | 1.08 | db |
| 210401K2_6 | 100 | | | 23.33 | 1.121 | 1.62e6 | 1.64e6 | 96.4 | -3.6 | 0.984 | db |

Compound name: d12-Benzo(b)fluoranthene

Response Factor: 1.18176
RRF SD: 0.0440034, Relative SD: 3.72355
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_1 | 200 | | | 26.89 | 0.907 | 2.18e6 | 9.42e5 | 196 | -2.0 | 1.16 | bd |
| 210401K2_3 | 200 | | | 26.92 | 0.907 | 2.59e6 | 1.04e6 | 210 | 5.2 | 1.24 | bd |
| 210401K2_4 | 200 | | | 26.85 | 0.907 | 2.74e6 | 1.13e6 | 205 | 2.7 | 1.21 | bd |
| 210401K2_5 | 200 | | | 26.89 | 0.909 | 2.73e6 | 1.19e6 | 194 | -2.8 | 1.15 | bd |
| 210401K2_6 | 200 | | | 26.85 | 0.910 | 2.64e6 | 1.15e6 | 194 | -3.0 | 1.15 | bd |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: d12-Benzo(k)fluoranthene

Response Factor: 1.50282

RRF SD: 0.0411963, Relative SD: 2.74126

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 210401K2_1 | 200 | | 27.01 | 0.911 | 2.70e6 | 9.42e5 | 190 | -4.8 | 1.43 | MM |
| 2 | 210401K2_3 | 200 | | 27.03 | 0.910 | 3.14e6 | 1.04e6 | 200 | 0.2 | 1.51 | db |
| 3 | 210401K2_4 | 200 | | 26.96 | 0.911 | 3.44e6 | 1.13e6 | 202 | 1.2 | 1.52 | db |
| 4 | 210401K2_5 | 200 | | 27.00 | 0.912 | 3.64e6 | 1.19e6 | 203 | 1.7 | 1.53 | db |
| 5 | 210401K2_6 | 200 | | 26.94 | 0.913 | 3.51e6 | 1.15e6 | 203 | 1.6 | 1.53 | db |

Compound name: d12-Benzo(a)pyrene

Response Factor: 1.2381

RRF SD: 0.0347184, Relative SD: 2.80417

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 210401K2_1 | 200 | | 28.98 | 0.978 | 2.23e6 | 9.42e5 | 192 | -4.2 | 1.19 | MM |
| 2 | 210401K2_3 | 200 | | 28.95 | 0.975 | 2.66e6 | 1.04e6 | 206 | 3.2 | 1.28 | MM |
| 3 | 210401K2_4 | 200 | | 28.85 | 0.975 | 2.79e6 | 1.13e6 | 199 | -0.4 | 1.23 | db |
| 4 | 210401K2_5 | 200 | | 28.90 | 0.977 | 3.00e6 | 1.19e6 | 204 | 1.8 | 1.26 | db |
| 5 | 210401K2_6 | 200 | | 28.81 | 0.977 | 2.83e6 | 1.15e6 | 199 | -0.4 | 1.23 | db |

Compound name: d12-Indeno(1,2,3-c,d)pyrene

Response Factor: 1.01816

RRF SD: 0.0146744, Relative SD: 1.44127

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------|------------|-----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 210401K2_1 | 200 | | 37.03 | 1.249 | 1.90e6 | 9.42e5 | 199 | -0.7 | 1.01 | MM |
| 2 | 210401K2_3 | 200 | | 37.07 | 1.248 | 2.15e6 | 1.04e6 | 203 | 1.3 | 1.03 | MM |
| 3 | 210401K2_4 | 200 | | 36.90 | 1.247 | 2.26e6 | 1.13e6 | 197 | -1.7 | 1.00 | MM |
| 4 | 210401K2_5 | 200 | | 36.99 | 1.250 | 2.46e6 | 1.19e6 | 203 | 1.7 | 1.04 | MM |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: d12-Indeno(1,2,3-c,d)pyrene

| Name | Std. Conc. | RA | nY | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 210401K2_6 | 200 | | | 37.04 | 1.255 | 2.33e6 | 1.15e6 | 199 | -0.6 | 1.01 | MM |

Compound name: d12-Benzo(g,h,i)perylene

Response Factor: 1.00461

RRF SD: 0.0292191, Relative SD: 2.90851

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | nY | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 200 | | | 40.50 | 1.366 | 1.82e6 | 9.42e5 | 193 | -3.6 | 0.968 | MM |
| 210401K2_3 | 200 | | | 40.41 | 1.361 | 2.13e6 | 1.04e6 | 204 | 1.9 | 1.02 | MM |
| 210401K2_4 | 200 | | | 40.31 | 1.362 | 2.35e6 | 1.13e6 | 207 | 3.4 | 1.04 | bb |
| 210401K2_5 | 200 | | | 40.04 | 1.353 | 2.33e6 | 1.19e6 | 195 | -2.3 | 0.981 | bb |
| 210401K2_6 | 200 | | | 40.05 | 1.357 | 2.32e6 | 1.15e6 | 201 | 0.6 | 1.01 | bb |

Compound name: d14-Dibenz(a,h)anthracene

Response Factor: 0.765358

RRF SD: 0.0155455, Relative SD: 2.03115

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | nY | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|------------|------------|----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 210401K2_1 | 200 | | | 36.85 | 1.243 | 1.42e6 | 9.42e5 | 198 | -1.2 | 0.756 | MM |
| 210401K2_3 | 200 | | | 36.92 | 1.243 | 1.65e6 | 1.04e6 | 207 | 3.5 | 0.792 | MM |
| 210401K2_4 | 200 | | | 36.67 | 1.239 | 1.72e6 | 1.13e6 | 199 | -0.7 | 0.760 | MM |
| 210401K2_5 | 200 | | | 36.85 | 1.245 | 1.82e6 | 1.19e6 | 200 | -0.0 | 0.765 | MM |
| 210401K2_6 | 200 | | | 36.96 | 1.253 | 1.73e6 | 1.15e6 | 197 | -1.6 | 0.753 | MM |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: d10-Anthracene
Response Factor: 0.988652
RRF SD: 0.0727568, Relative SD: 7.35919
Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRF | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|--------------|------------|-------|-------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 210401K2_1 | 100 | 18.35 | 1.539 | 18.35 | 1.539 | 8.77e5 | 9.42e5 | 94.1 | -5.9 | 0.931 | db |
| 2 210401K2_3 | 100 | 18.35 | 1.539 | 18.35 | 1.539 | 9.88e5 | 1.04e6 | 96.0 | -4.0 | 0.949 | db |
| 3 210401K2_4 | 100 | 18.35 | 1.539 | 18.35 | 1.539 | 1.12e6 | 1.13e6 | 100 | 0.0 | 0.989 | db |
| 4 210401K2_5 | 100 | 18.35 | 1.539 | 18.35 | 1.539 | 1.32e6 | 1.19e6 | 113 | 12.6 | 1.11 | MM |
| 5 210401K2_6 | 100 | 18.35 | 1.539 | 18.35 | 1.539 | 1.10e6 | 1.15e6 | 97.2 | -2.8 | 0.961 | db |

Compound name: d14-Terphenyl
Response Factor: 0.576182
RRF SD: 0.0201863, Relative SD: 3.50346
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRF | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|--------------|------------|-------|-------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 210401K2_1 | 200 | 20.74 | 1.020 | 20.74 | 1.020 | 1.88e6 | 1.68e6 | 194 | -3.1 | 0.559 | bb |
| 2 210401K2_3 | 200 | 20.74 | 1.020 | 20.74 | 1.020 | 2.07e6 | 1.85e6 | 195 | -2.7 | 0.561 | bb |
| 3 210401K2_4 | 200 | 20.72 | 1.019 | 20.72 | 1.019 | 2.35e6 | 2.02e6 | 202 | 0.8 | 0.581 | bb |
| 4 210401K2_5 | 200 | 20.72 | 1.019 | 20.72 | 1.019 | 2.57e6 | 2.11e6 | 211 | 5.6 | 0.608 | bb |
| 5 210401K2_6 | 200 | 20.72 | 1.020 | 20.72 | 1.020 | 2.38e6 | 2.08e6 | 199 | -0.6 | 0.573 | bb |

Compound name: d12-Benzo(e)pyrene
Response Factor: 0.737507
RRF SD: 0.0202212, Relative SD: 2.74183
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRF | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|--------------|------------|-------|-------|-------|-------|--------|----------|-------|-------|-------|-------------|
| 1 210401K2_1 | 200 | 28.73 | 1.064 | 28.73 | 1.064 | 2.06e6 | 2.70e6 | 207 | 3.6 | 0.764 | bd |
| 2 210401K2_3 | 200 | 28.70 | 1.062 | 28.70 | 1.062 | 2.32e6 | 3.14e6 | 201 | 0.4 | 0.740 | bd |
| 3 210401K2_4 | 200 | 28.58 | 1.060 | 28.58 | 1.060 | 2.57e6 | 3.44e6 | 202 | 1.2 | 0.747 | bd |
| 4 210401K2_5 | 200 | 28.65 | 1.061 | 28.65 | 1.061 | 2.58e6 | 3.64e6 | 193 | -3.6 | 0.711 | bd |

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: d12-Benzo(e)pyrene

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------|------------|-----|----|-------|-------|--------|----------|-------|-------|-------|-------------|
| 5 | 210401K2_6 | 200 | | 28.57 | 1.061 | 2.55e6 | 3.51e6 | 197 | -1.5 | 0.726 | bd |

Compound name: d10-1-Methylnaphthalene

Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 39), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------|------------|-----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 210401K2_1 | 100 | | 11.93 | 1.000 | 1.03e6 | 1.03e6 | 100 | 0.0 | 1.00 | bb |
| 2 | 210401K2_3 | 100 | | 11.93 | 1.000 | 1.22e6 | 1.22e6 | 100 | 0.0 | 1.00 | bb |
| 3 | 210401K2_4 | 100 | | 11.93 | 1.000 | 1.30e6 | 1.30e6 | 100 | 0.0 | 1.00 | bb |
| 4 | 210401K2_5 | 100 | | 11.93 | 1.000 | 1.46e6 | 1.46e6 | 100 | 0.0 | 1.00 | bb |
| 5 | 210401K2_6 | 100 | | 11.93 | 1.000 | 1.38e6 | 1.38e6 | 100 | 0.0 | 1.00 | bb |

Compound name: d10-Pyrene

Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 40), Area * (IS Conc. / IS Area)
Curve type: RF

| Name | Std. Conc. | RA | ny | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRT | X = dropped |
|------|------------|-----|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 | 210401K2_1 | 100 | | 20.82 | 1.000 | 1.28e6 | 1.28e6 | 100 | 0.0 | 1.00 | db |
| 2 | 210401K2_3 | 100 | | 20.81 | 1.000 | 1.43e6 | 1.43e6 | 100 | 0.0 | 1.00 | db |
| 3 | 210401K2_4 | 100 | | 20.81 | 1.000 | 1.61e6 | 1.61e6 | 100 | 0.0 | 1.00 | db |
| 4 | 210401K2_5 | 100 | | 20.81 | 1.000 | 1.62e6 | 1.62e6 | 100 | 0.0 | 1.00 | bb |
| 5 | 210401K2_6 | 100 | | 20.81 | 1.000 | 1.64e6 | 1.64e6 | 100 | 0.0 | 1.00 | db |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-CRV.qld

Last Altered: Thursday, April 01, 2021 16:11:11 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:18:29 Pacific Daylight Time

Compound name: d12-Perylene

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 41), Area * (IS Conc. / IS Area)

Curve type: RF

| Name | Std. Conc. | RA | RT | RRT | Resp. | IS Resp. | Conc. | %Dev. | RRF | X = dropped |
|--------------|------------|----|-------|-------|--------|----------|-------|-------|------|-------------|
| 1 210401K2_1 | 100 | | 29.65 | 1.000 | 9.42e5 | 9.42e5 | 100 | 0.0 | 1.00 | dd |
| 2 210401K2_3 | 100 | | 29.70 | 1.000 | 1.04e6 | 1.04e6 | 100 | 0.0 | 1.00 | db |
| 3 210401K2_4 | 100 | | 29.59 | 1.000 | 1.13e6 | 1.13e6 | 100 | 0.0 | 1.00 | bd |
| 4 210401K2_5 | 100 | | 29.59 | 1.000 | 1.19e6 | 1.19e6 | 100 | 0.0 | 1.00 | bd |
| 5 210401K2_6 | 100 | | 29.50 | 1.000 | 1.15e6 | 1.15e6 | 100 | 0.0 | 1.00 | bd |

Quantify Compound Summary Report MassLynx 4.1 SCN815
Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, April 02, 2021 08:14:41 Pacific Daylight Time
Printed: Friday, April 02, 2021 08:15:02 Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PAH-4-1-21.mdb 01 Apr 2021 13:23:22
Calibration: U:\VG11.PRO\CurveDB\lb_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Compound name: Naphthalene

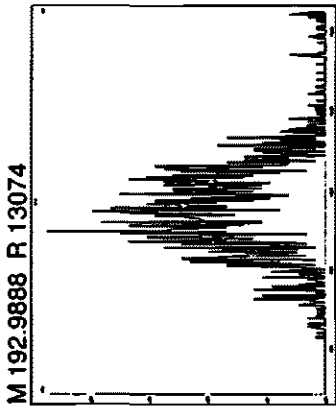
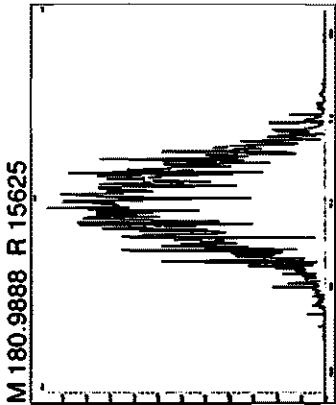
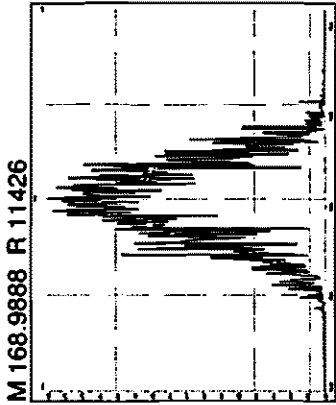
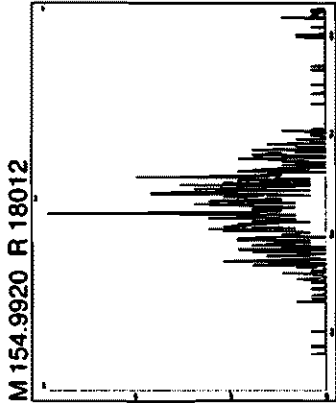
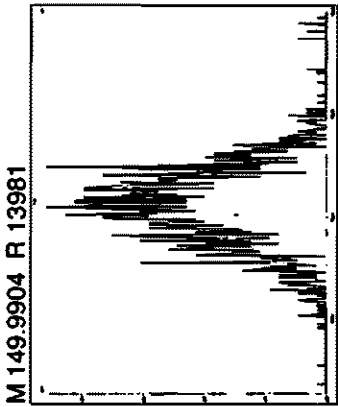
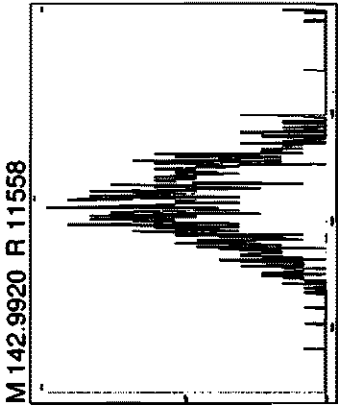
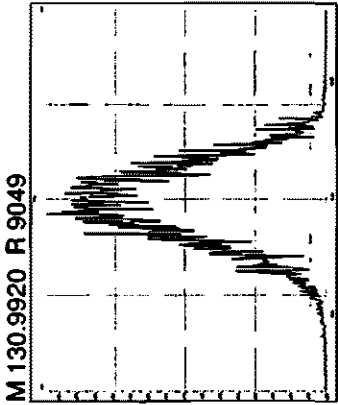
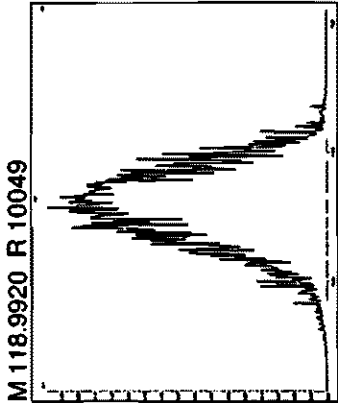
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|------|-------------|-----------|----------|
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| 2 | 210401K2_2 | 01-Apr-21 | 10:20:36 |
| 3 | 210401K2_3 | 01-Apr-21 | 11:06:32 |
| 4 | 210401K2_4 | 01-Apr-21 | 11:55:05 |
| 5 | 210401K2_5 | 01-Apr-21 | 12:40:15 |
| 6 | 210401K2_6 | 01-Apr-21 | 13:27:05 |
| 7 | 210401K2_7 | 01-Apr-21 | 14:17:38 |
| 8 | 210401K2_8 | 01-Apr-21 | 15:07:02 |
| 9 | 210401K2_9 | 01-Apr-21 | 15:52:05 |
| 10 | 210401K2_10 | 01-Apr-21 | 16:38:54 |
| 11 | 210401K2_11 | 01-Apr-21 | 17:25:43 |
| 12 | 210401K2_12 | 01-Apr-21 | 18:12:32 |
| 13 | 210401K2_13 | 01-Apr-21 | 18:59:21 |
| 14 | 210401K2_14 | 01-Apr-21 | 19:46:09 |
| 15 | 210401K2_15 | 01-Apr-21 | 20:32:57 |
| 16 | 210401K2_16 | 01-Apr-21 | 21:19:44 |
| 17 | 210401K2_17 | 01-Apr-21 | 22:06:32 |
| 18 | 210401K2_18 | 01-Apr-21 | 22:53:25 |
| 19 | 210401K2_19 | 01-Apr-21 | 23:40:18 |
| 20 | 210401K2_20 | 02-Apr-21 | 00:27:10 |

Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: PAH_ZB50.exp Reference: Plk.ref Function: 1 @ 250 (ppm)

Printed: Thursday, April 01, 2021 09:33:14 Pacific Daylight Time



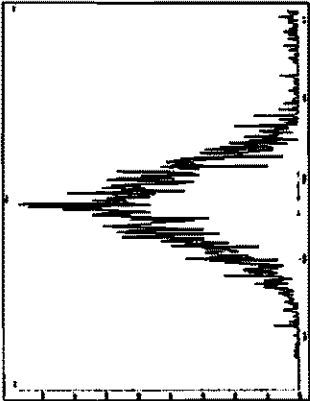
Experiment Calibration Report

MassLynx 4.1 SCN815

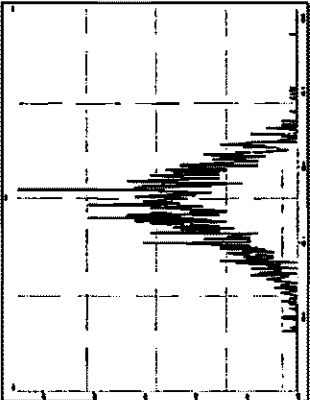
File: Experiment: PAH_ZB50.exp Reference: Plk.rel Function: 2 @ 250 (ppm)

Printed: Thursday, April 01, 2021 09:33:41 Pacific Daylight Time

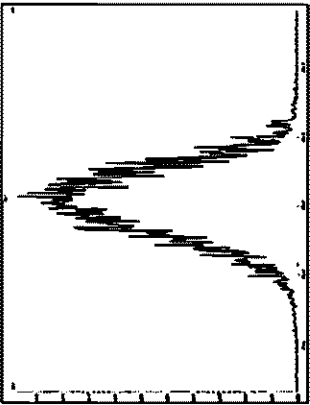
M 192.9888 R 10204



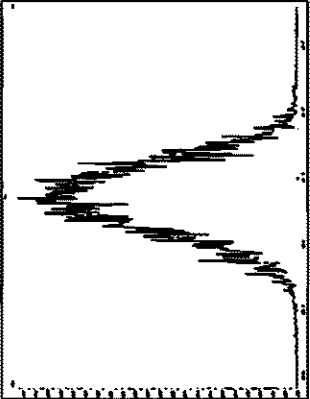
M 204.9888 R 12902



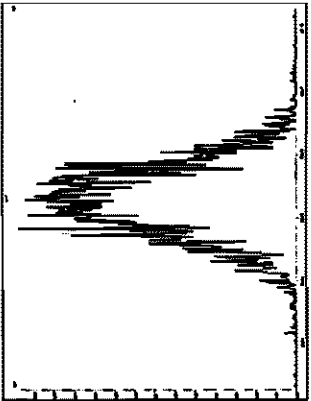
M 218.9856 R 10414



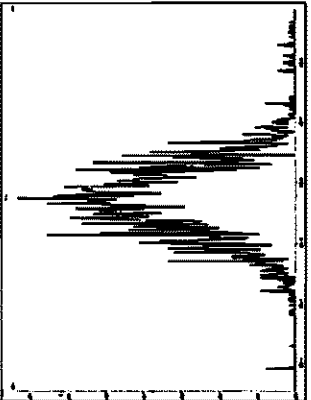
M 230.9856 R 10582



M 242.9856 R 10752



M 254.9856 R 14927



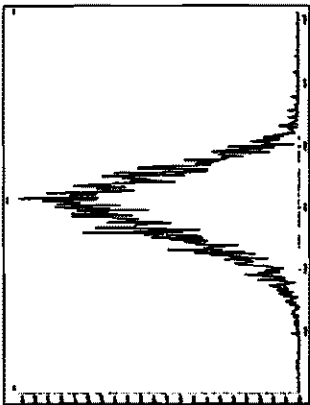
Experiment Calibration Report

MassLynx 4.1 SCN815

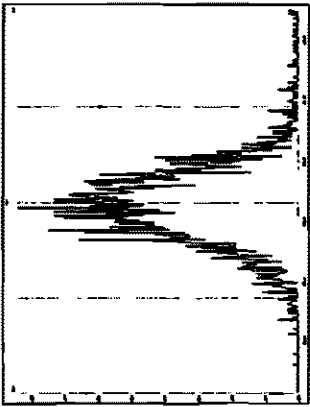
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Printed: Thursday, April 01, 2021 09:34:00 Pacific Daylight Time

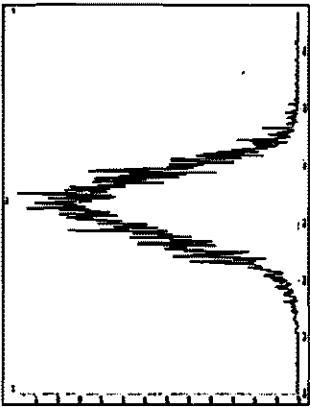
M 242.9856 R 10926



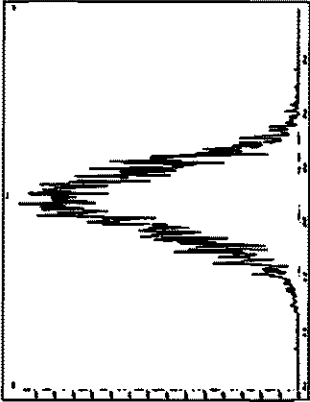
M 254.9856 R 10810



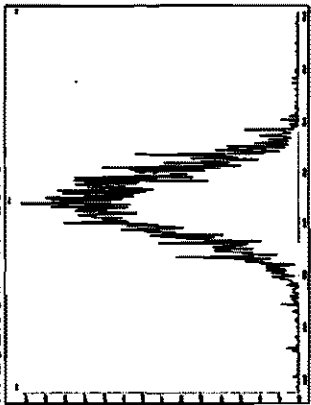
M 268.9824 R 11234



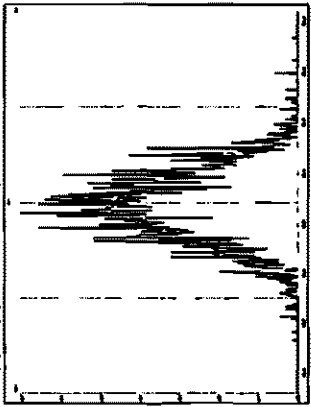
M 280.9824 R 11696



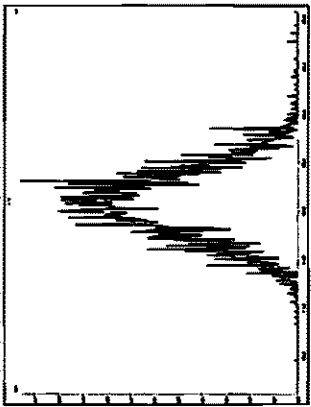
M 292.9824 R 12576



M 304.9824 R 11834



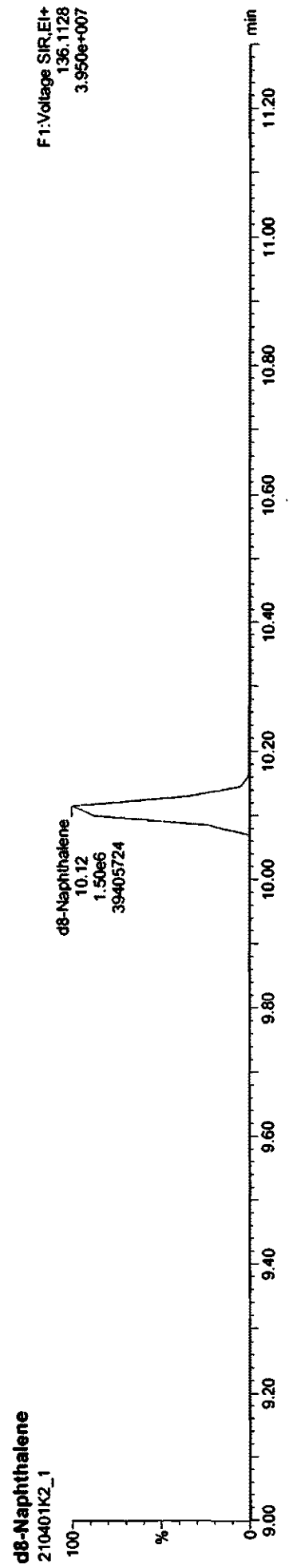
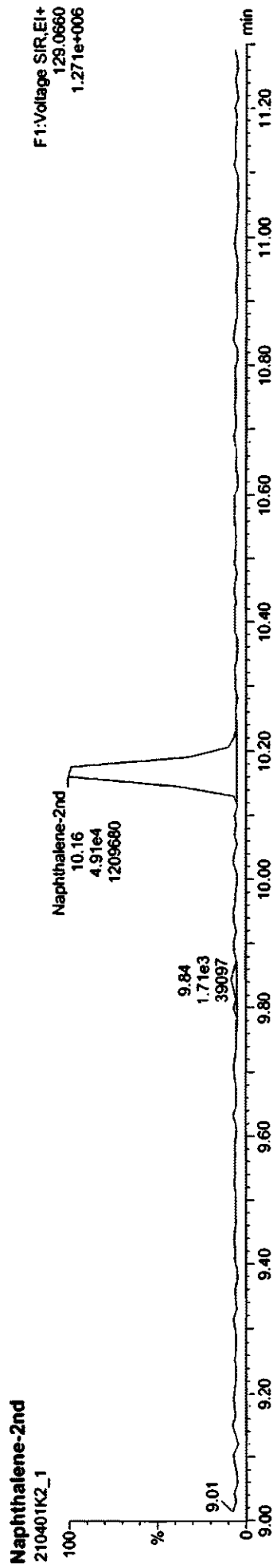
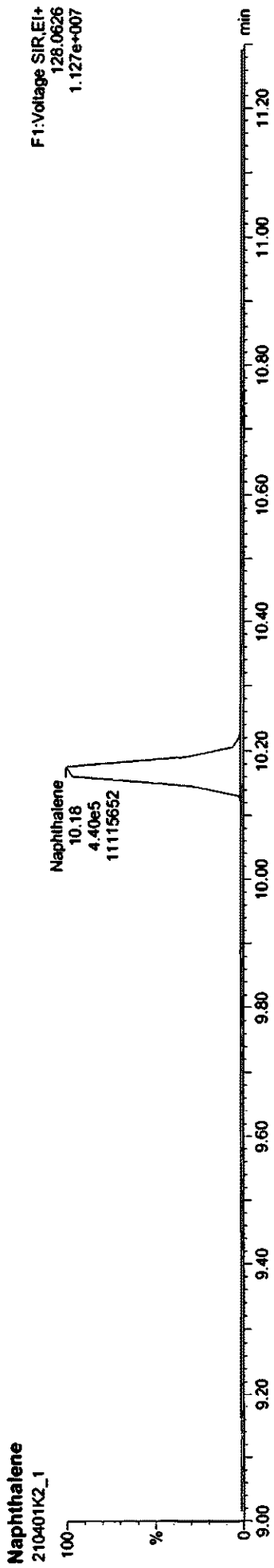
M 318.9792 R 12819



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

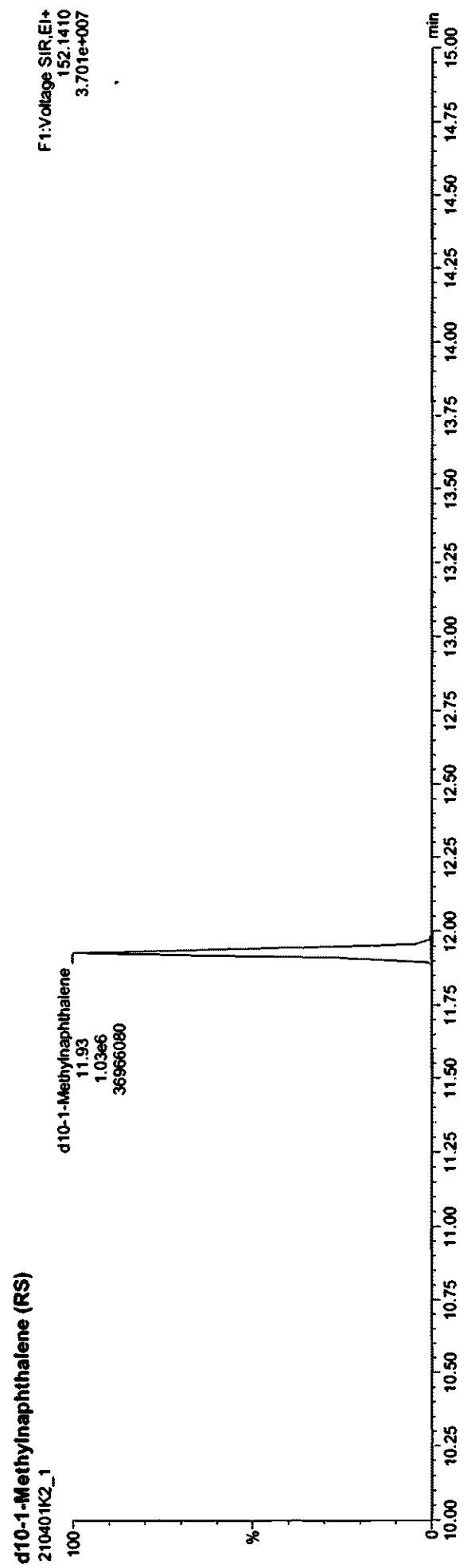
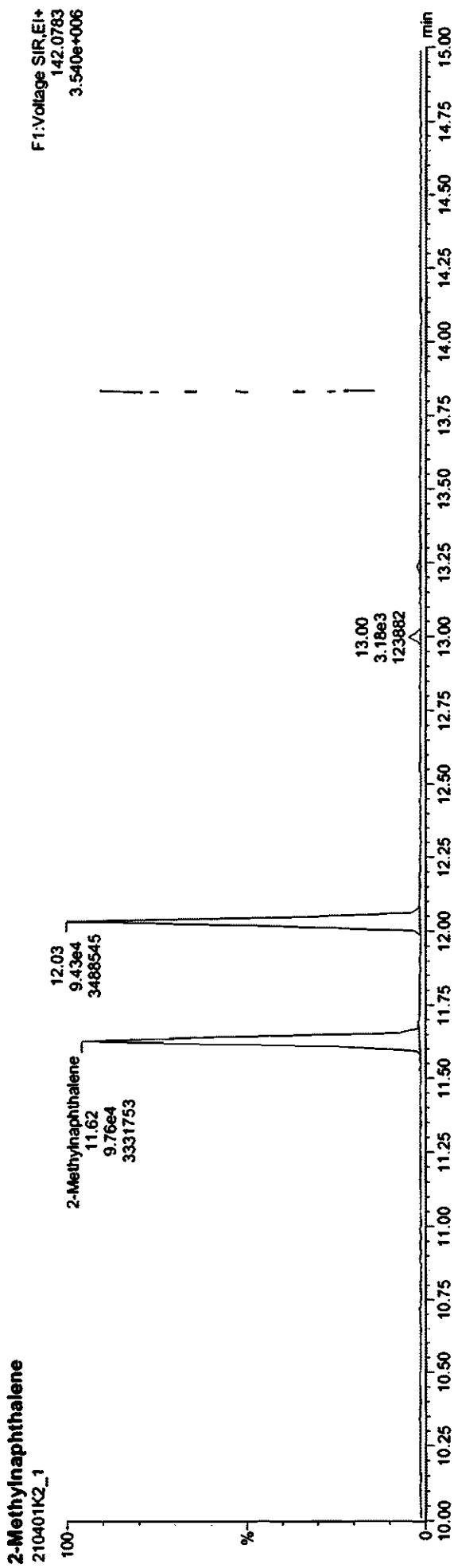
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Calibration: U:\VG11.PRO\CurveDB\db_50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11
Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510

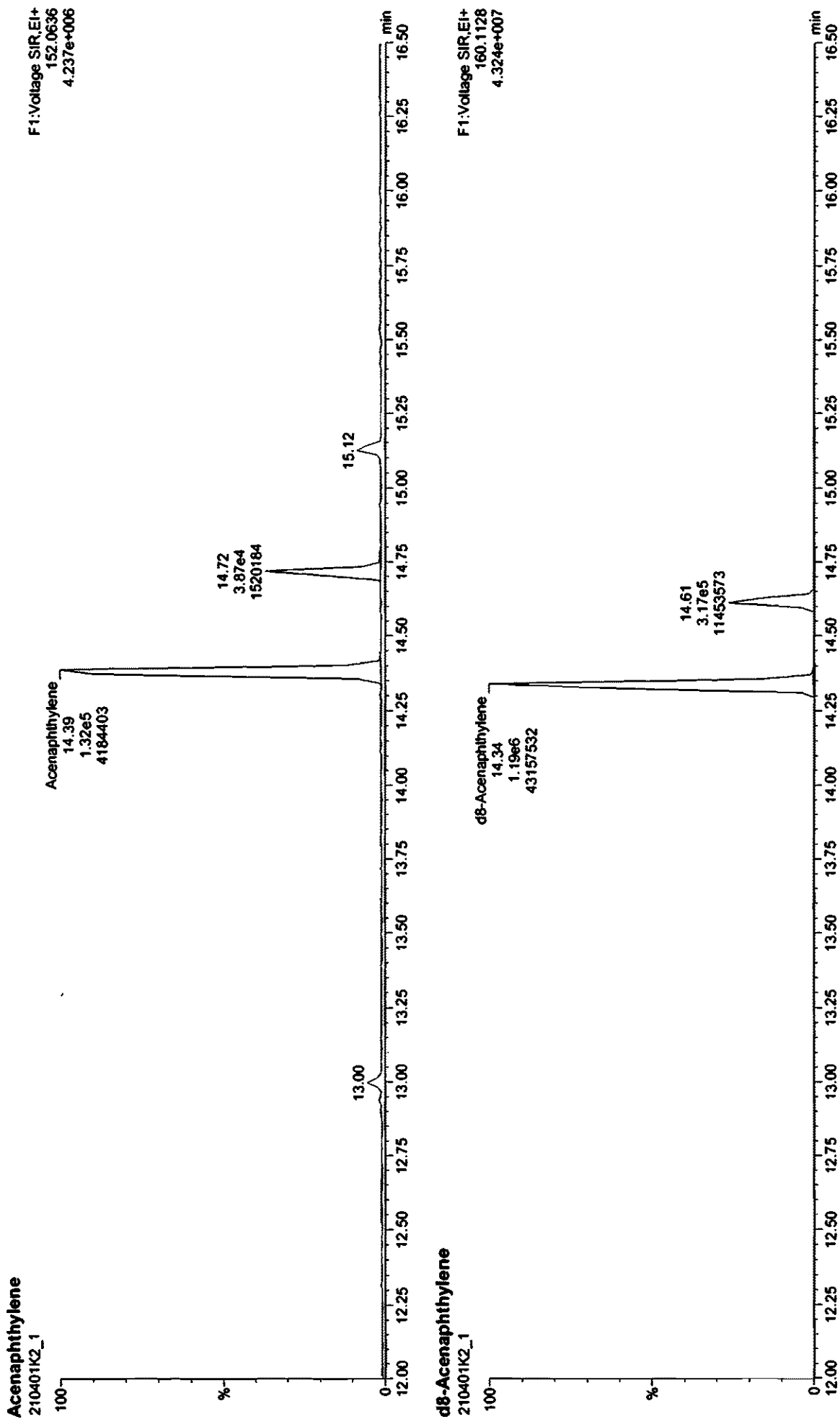


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510

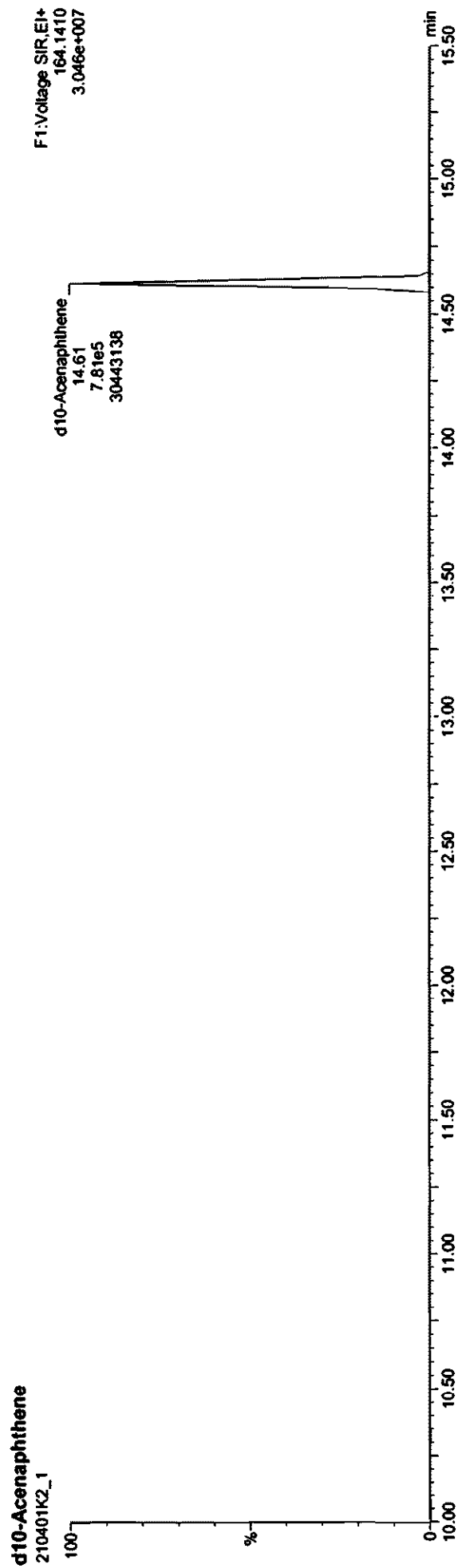
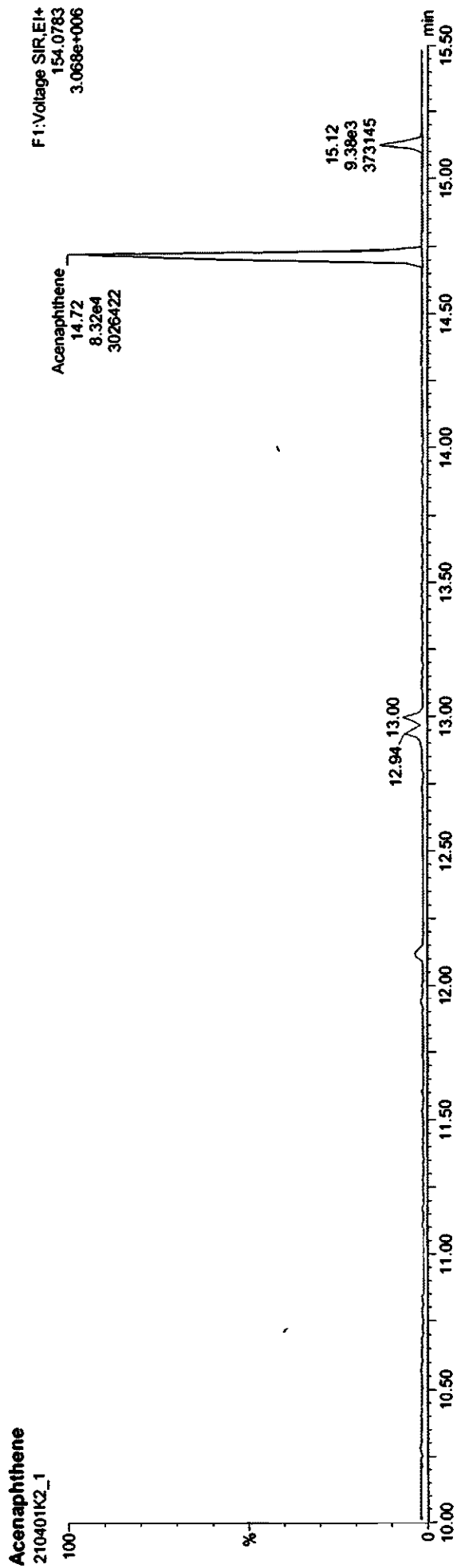


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510

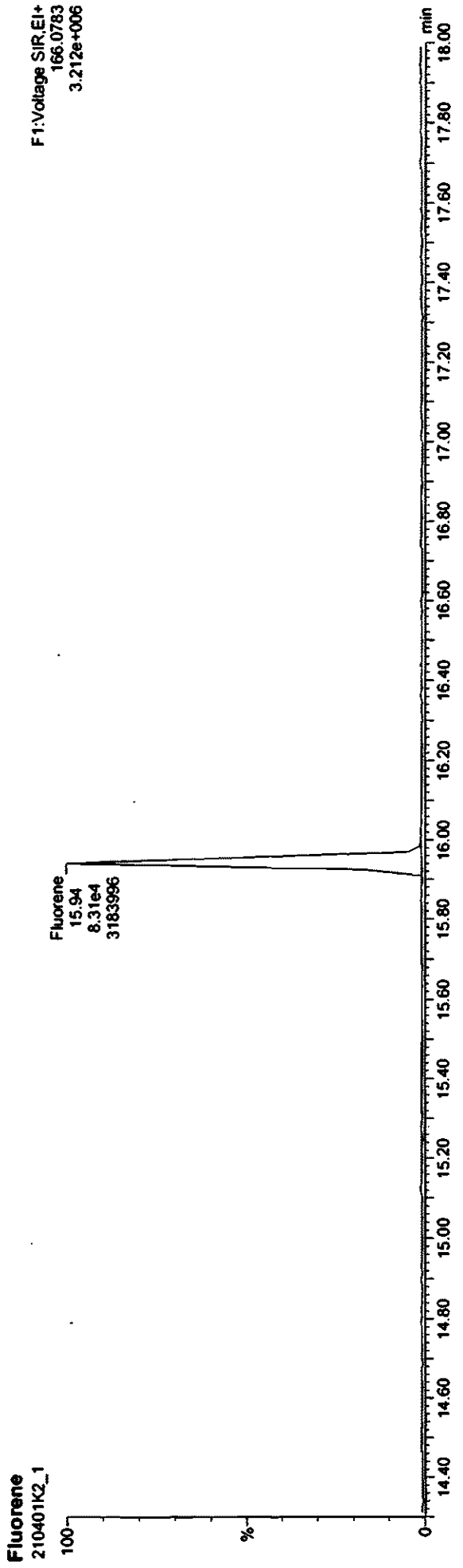


Quantify Sample Report
Vista Analytical Laboratory

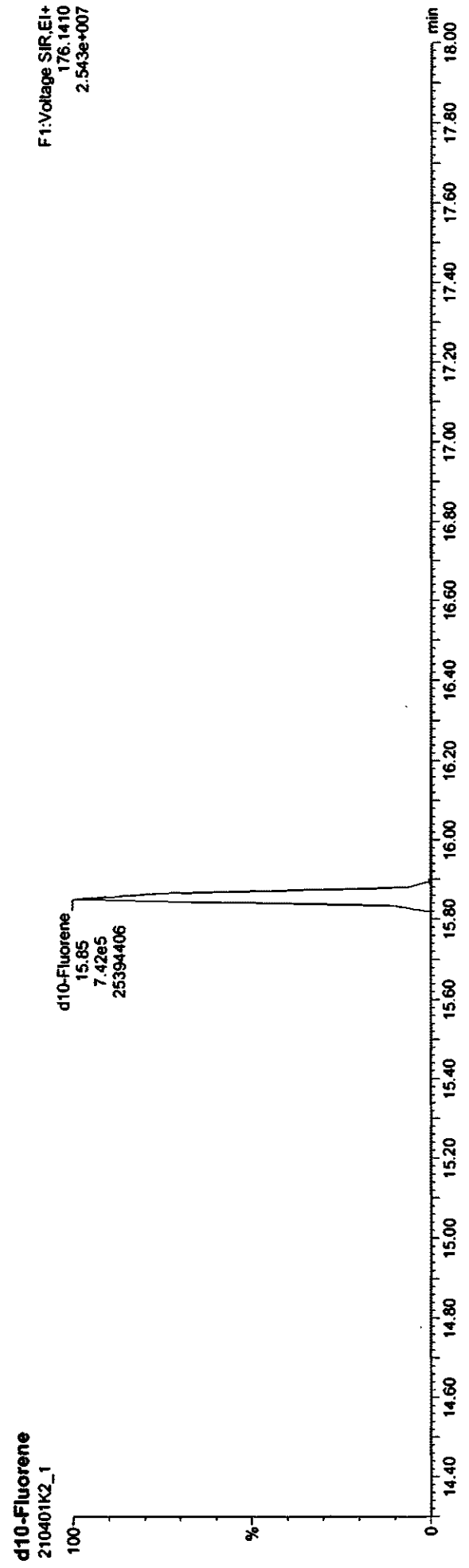
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Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510



1045 of 1215

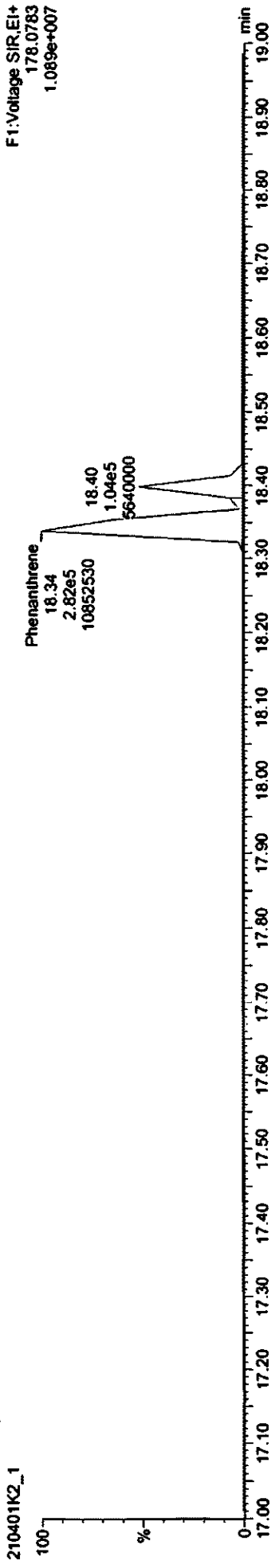


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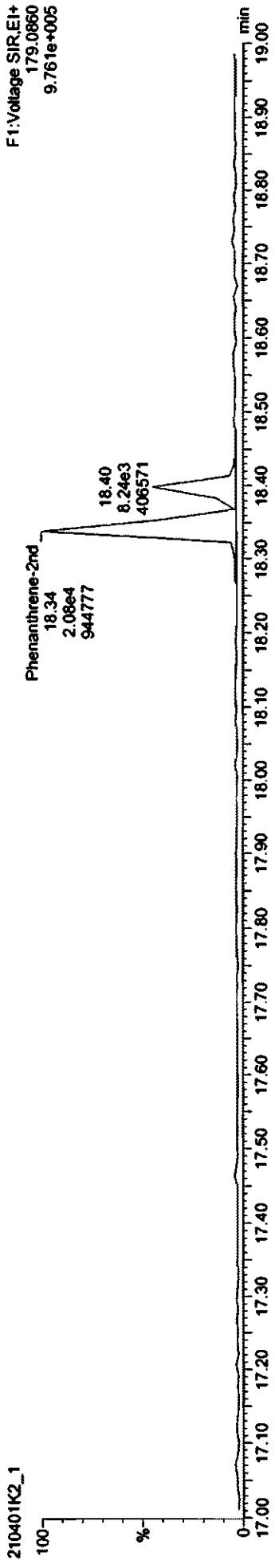
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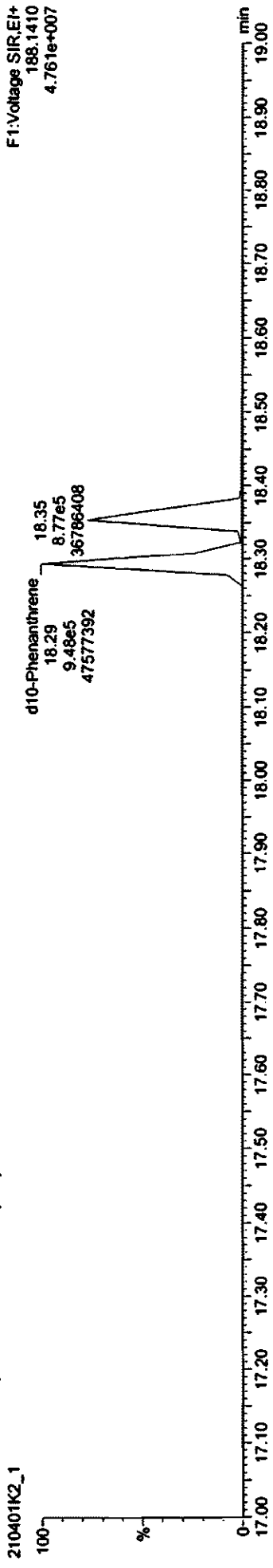
Phenanthrene; Anthracene



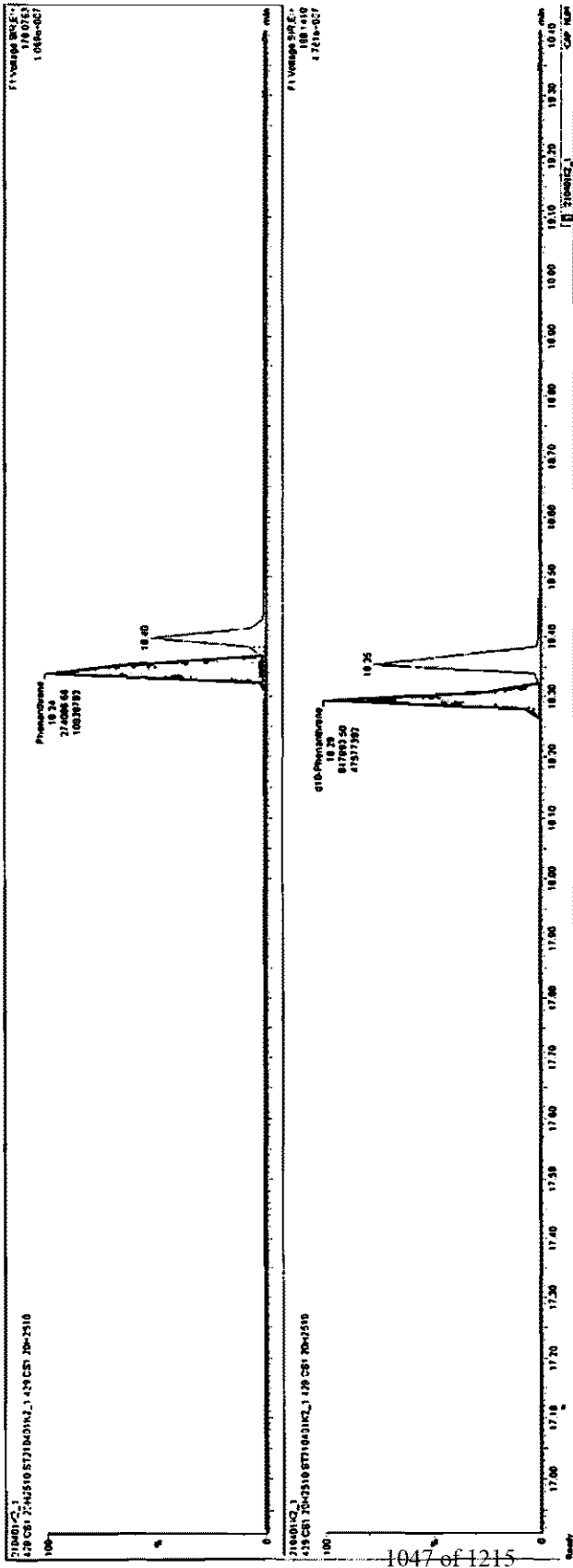
Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)

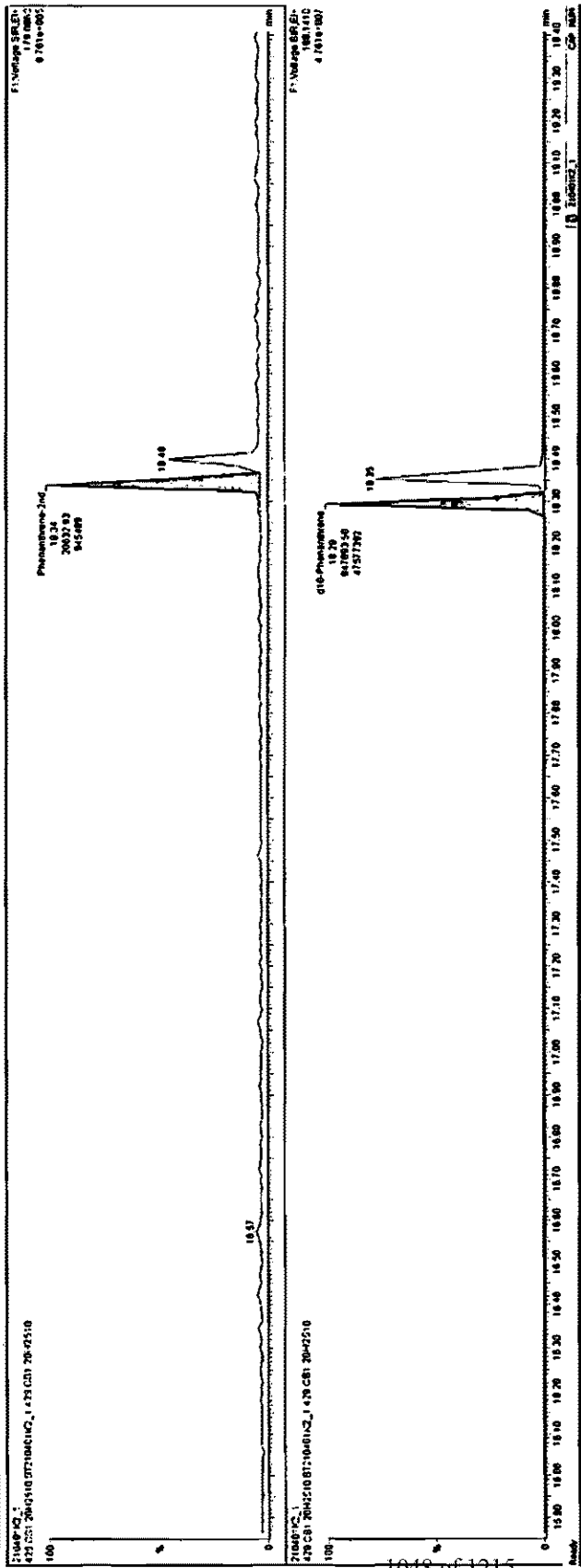


| RT | Area | %Area | Area | %Area | Area | %Area |
|-----|------|-------|------|-------|------|-------|
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| 2 | 1.30 | 0.00 | 1.30 | 0.00 | 1.30 | 0.00 |
| 3 | 1.32 | 0.00 | 1.32 | 0.00 | 1.32 | 0.00 |
| 4 | 1.34 | 0.00 | 1.34 | 0.00 | 1.34 | 0.00 |
| 5 | 1.36 | 0.00 | 1.36 | 0.00 | 1.36 | 0.00 |
| 6 | 1.38 | 0.00 | 1.38 | 0.00 | 1.38 | 0.00 |
| 7 | 1.40 | 0.00 | 1.40 | 0.00 | 1.40 | 0.00 |
| 8 | 1.42 | 0.00 | 1.42 | 0.00 | 1.42 | 0.00 |
| 9 | 1.44 | 0.00 | 1.44 | 0.00 | 1.44 | 0.00 |
| 10 | 1.46 | 0.00 | 1.46 | 0.00 | 1.46 | 0.00 |
| 11 | 1.48 | 0.00 | 1.48 | 0.00 | 1.48 | 0.00 |
| 12 | 1.50 | 0.00 | 1.50 | 0.00 | 1.50 | 0.00 |
| 13 | 1.52 | 0.00 | 1.52 | 0.00 | 1.52 | 0.00 |
| 14 | 1.54 | 0.00 | 1.54 | 0.00 | 1.54 | 0.00 |
| 15 | 1.56 | 0.00 | 1.56 | 0.00 | 1.56 | 0.00 |
| 16 | 1.58 | 0.00 | 1.58 | 0.00 | 1.58 | 0.00 |
| 17 | 1.60 | 0.00 | 1.60 | 0.00 | 1.60 | 0.00 |
| 18 | 1.62 | 0.00 | 1.62 | 0.00 | 1.62 | 0.00 |
| 19 | 1.64 | 0.00 | 1.64 | 0.00 | 1.64 | 0.00 |
| 20 | 1.66 | 0.00 | 1.66 | 0.00 | 1.66 | 0.00 |
| 21 | 1.68 | 0.00 | 1.68 | 0.00 | 1.68 | 0.00 |
| 22 | 1.70 | 0.00 | 1.70 | 0.00 | 1.70 | 0.00 |
| 23 | 1.72 | 0.00 | 1.72 | 0.00 | 1.72 | 0.00 |
| 24 | 1.74 | 0.00 | 1.74 | 0.00 | 1.74 | 0.00 |
| 25 | 1.76 | 0.00 | 1.76 | 0.00 | 1.76 | 0.00 |
| 26 | 1.78 | 0.00 | 1.78 | 0.00 | 1.78 | 0.00 |
| 27 | 1.80 | 0.00 | 1.80 | 0.00 | 1.80 | 0.00 |
| 28 | 1.82 | 0.00 | 1.82 | 0.00 | 1.82 | 0.00 |
| 29 | 1.84 | 0.00 | 1.84 | 0.00 | 1.84 | 0.00 |
| 30 | 1.86 | 0.00 | 1.86 | 0.00 | 1.86 | 0.00 |
| 31 | 1.88 | 0.00 | 1.88 | 0.00 | 1.88 | 0.00 |
| 32 | 1.90 | 0.00 | 1.90 | 0.00 | 1.90 | 0.00 |
| 33 | 1.92 | 0.00 | 1.92 | 0.00 | 1.92 | 0.00 |
| 34 | 1.94 | 0.00 | 1.94 | 0.00 | 1.94 | 0.00 |
| 35 | 1.96 | 0.00 | 1.96 | 0.00 | 1.96 | 0.00 |
| 36 | 1.98 | 0.00 | 1.98 | 0.00 | 1.98 | 0.00 |
| 37 | 2.00 | 0.00 | 2.00 | 0.00 | 2.00 | 0.00 |
| 38 | 2.02 | 0.00 | 2.02 | 0.00 | 2.02 | 0.00 |
| 39 | 2.04 | 0.00 | 2.04 | 0.00 | 2.04 | 0.00 |
| 40 | 2.06 | 0.00 | 2.06 | 0.00 | 2.06 | 0.00 |
| 41 | 2.08 | 0.00 | 2.08 | 0.00 | 2.08 | 0.00 |
| 42 | 2.10 | 0.00 | 2.10 | 0.00 | 2.10 | 0.00 |
| 43 | 2.12 | 0.00 | 2.12 | 0.00 | 2.12 | 0.00 |
| 44 | 2.14 | 0.00 | 2.14 | 0.00 | 2.14 | 0.00 |
| 45 | 2.16 | 0.00 | 2.16 | 0.00 | 2.16 | 0.00 |
| 46 | 2.18 | 0.00 | 2.18 | 0.00 | 2.18 | 0.00 |
| 47 | 2.20 | 0.00 | 2.20 | 0.00 | 2.20 | 0.00 |
| 48 | 2.22 | 0.00 | 2.22 | 0.00 | 2.22 | 0.00 |
| 49 | 2.24 | 0.00 | 2.24 | 0.00 | 2.24 | 0.00 |
| 50 | 2.26 | 0.00 | 2.26 | 0.00 | 2.26 | 0.00 |
| 51 | 2.28 | 0.00 | 2.28 | 0.00 | 2.28 | 0.00 |
| 52 | 2.30 | 0.00 | 2.30 | 0.00 | 2.30 | 0.00 |
| 53 | 2.32 | 0.00 | 2.32 | 0.00 | 2.32 | 0.00 |
| 54 | 2.34 | 0.00 | 2.34 | 0.00 | 2.34 | 0.00 |
| 55 | 2.36 | 0.00 | 2.36 | 0.00 | 2.36 | 0.00 |
| 56 | 2.38 | 0.00 | 2.38 | 0.00 | 2.38 | 0.00 |
| 57 | 2.40 | 0.00 | 2.40 | 0.00 | 2.40 | 0.00 |
| 58 | 2.42 | 0.00 | 2.42 | 0.00 | 2.42 | 0.00 |
| 59 | 2.44 | 0.00 | 2.44 | 0.00 | 2.44 | 0.00 |
| 60 | 2.46 | 0.00 | 2.46 | 0.00 | 2.46 | 0.00 |
| 61 | 2.48 | 0.00 | 2.48 | 0.00 | 2.48 | 0.00 |
| 62 | 2.50 | 0.00 | 2.50 | 0.00 | 2.50 | 0.00 |
| 63 | 2.52 | 0.00 | 2.52 | 0.00 | 2.52 | 0.00 |
| 64 | 2.54 | 0.00 | 2.54 | 0.00 | 2.54 | 0.00 |
| 65 | 2.56 | 0.00 | 2.56 | 0.00 | 2.56 | 0.00 |
| 66 | 2.58 | 0.00 | 2.58 | 0.00 | 2.58 | 0.00 |
| 67 | 2.60 | 0.00 | 2.60 | 0.00 | 2.60 | 0.00 |
| 68 | 2.62 | 0.00 | 2.62 | 0.00 | 2.62 | 0.00 |
| 69 | 2.64 | 0.00 | 2.64 | 0.00 | 2.64 | 0.00 |
| 70 | 2.66 | 0.00 | 2.66 | 0.00 | 2.66 | 0.00 |
| 71 | 2.68 | 0.00 | 2.68 | 0.00 | 2.68 | 0.00 |
| 72 | 2.70 | 0.00 | 2.70 | 0.00 | 2.70 | 0.00 |
| 73 | 2.72 | 0.00 | 2.72 | 0.00 | 2.72 | 0.00 |
| 74 | 2.74 | 0.00 | 2.74 | 0.00 | 2.74 | 0.00 |
| 75 | 2.76 | 0.00 | 2.76 | 0.00 | 2.76 | 0.00 |
| 76 | 2.78 | 0.00 | 2.78 | 0.00 | 2.78 | 0.00 |
| 77 | 2.80 | 0.00 | 2.80 | 0.00 | 2.80 | 0.00 |
| 78 | 2.82 | 0.00 | 2.82 | 0.00 | 2.82 | 0.00 |
| 79 | 2.84 | 0.00 | 2.84 | 0.00 | 2.84 | 0.00 |
| 80 | 2.86 | 0.00 | 2.86 | 0.00 | 2.86 | 0.00 |
| 81 | 2.88 | 0.00 | 2.88 | 0.00 | 2.88 | 0.00 |
| 82 | 2.90 | 0.00 | 2.90 | 0.00 | 2.90 | 0.00 |
| 83 | 2.92 | 0.00 | 2.92 | 0.00 | 2.92 | 0.00 |
| 84 | 2.94 | 0.00 | 2.94 | 0.00 | 2.94 | 0.00 |
| 85 | 2.96 | 0.00 | 2.96 | 0.00 | 2.96 | 0.00 |
| 86 | 2.98 | 0.00 | 2.98 | 0.00 | 2.98 | 0.00 |
| 87 | 3.00 | 0.00 | 3.00 | 0.00 | 3.00 | 0.00 |
| 88 | 3.02 | 0.00 | 3.02 | 0.00 | 3.02 | 0.00 |
| 89 | 3.04 | 0.00 | 3.04 | 0.00 | 3.04 | 0.00 |
| 90 | 3.06 | 0.00 | 3.06 | 0.00 | 3.06 | 0.00 |
| 91 | 3.08 | 0.00 | 3.08 | 0.00 | 3.08 | 0.00 |
| 92 | 3.10 | 0.00 | 3.10 | 0.00 | 3.10 | 0.00 |
| 93 | 3.12 | 0.00 | 3.12 | 0.00 | 3.12 | 0.00 |
| 94 | 3.14 | 0.00 | 3.14 | 0.00 | 3.14 | 0.00 |
| 95 | 3.16 | 0.00 | 3.16 | 0.00 | 3.16 | 0.00 |
| 96 | 3.18 | 0.00 | 3.18 | 0.00 | 3.18 | 0.00 |
| 97 | 3.20 | 0.00 | 3.20 | 0.00 | 3.20 | 0.00 |
| 98 | 3.22 | 0.00 | 3.22 | 0.00 | 3.22 | 0.00 |
| 99 | 3.24 | 0.00 | 3.24 | 0.00 | 3.24 | 0.00 |
| 100 | 3.26 | 0.00 | 3.26 | 0.00 | 3.26 | 0.00 |

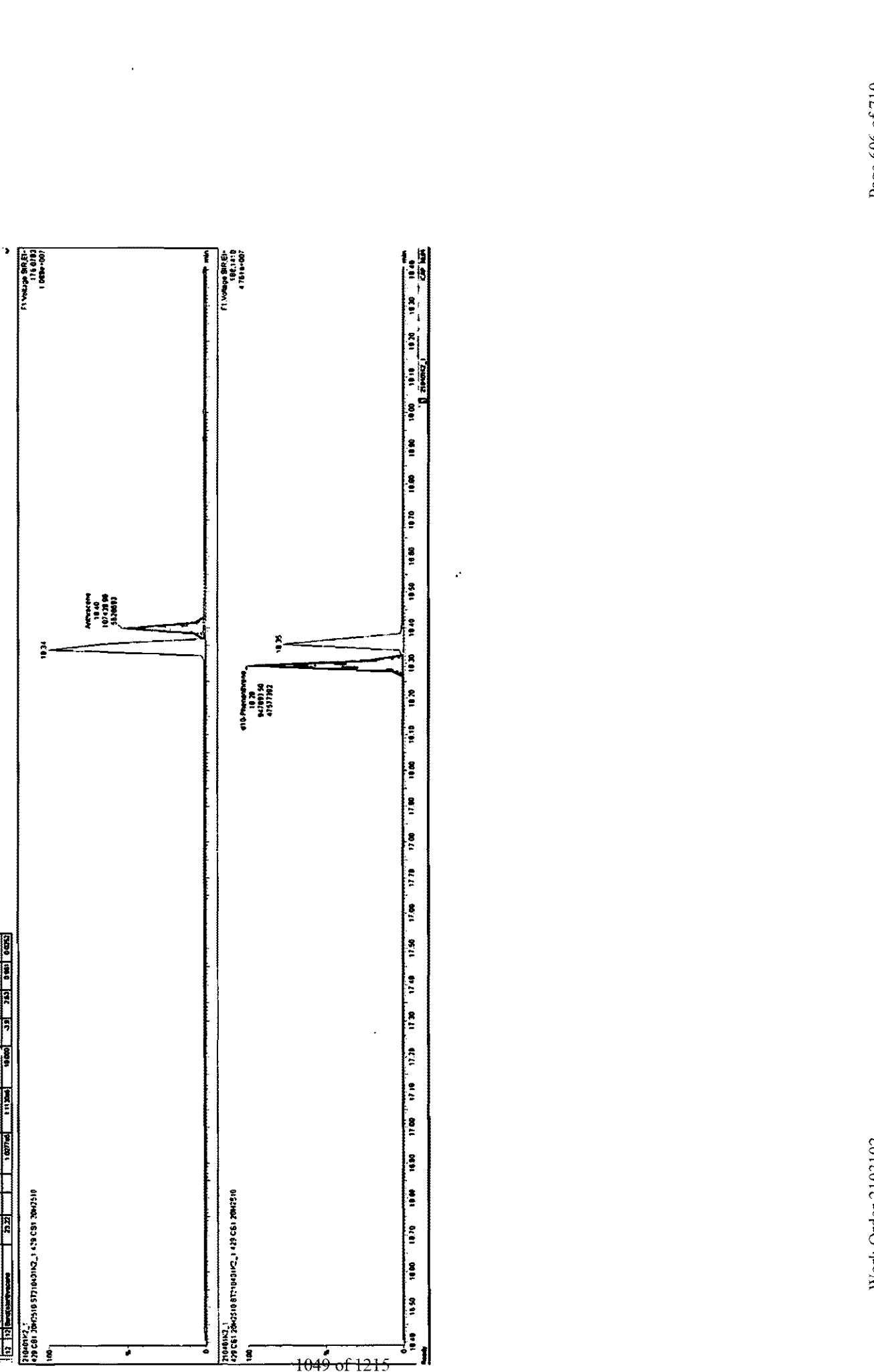


2103102.CM: 2103102.CM, d (Chemistry)

| ID | Name | RT | Area | Area% | Height | Height% | Ref # |
|-----|------------------|-------|--------|-------|--------|---------|-------|
| 1 | Acetone | 1.10 | 22800 | 2.0 | 1000 | 100 | 1.01 |
| 2 | Methylcellosolve | 1.40 | 14000 | 1.2 | 700 | 70 | 2.03 |
| 3 | Methylcellosolve | 1.70 | 17000 | 1.5 | 850 | 85 | 3.04 |
| 4 | Methylcellosolve | 2.00 | 20000 | 1.8 | 1000 | 100 | 4.05 |
| 5 | Methylcellosolve | 2.30 | 23000 | 2.0 | 1100 | 110 | 5.06 |
| 6 | Methylcellosolve | 2.60 | 26000 | 2.3 | 1200 | 120 | 6.07 |
| 7 | Methylcellosolve | 2.90 | 29000 | 2.6 | 1300 | 130 | 7.08 |
| 8 | Methylcellosolve | 3.20 | 32000 | 2.9 | 1400 | 140 | 8.09 |
| 9 | Methylcellosolve | 3.50 | 35000 | 3.1 | 1500 | 150 | 9.10 |
| 10 | Methylcellosolve | 3.80 | 38000 | 3.4 | 1600 | 160 | 10.11 |
| 11 | Methylcellosolve | 4.10 | 41000 | 3.7 | 1700 | 170 | 11.12 |
| 12 | Methylcellosolve | 4.40 | 44000 | 3.9 | 1800 | 180 | 12.13 |
| 13 | Methylcellosolve | 4.70 | 47000 | 4.2 | 1900 | 190 | 13.14 |
| 14 | Methylcellosolve | 5.00 | 50000 | 4.5 | 2000 | 200 | 14.15 |
| 15 | Methylcellosolve | 5.30 | 53000 | 4.7 | 2100 | 210 | 15.16 |
| 16 | Methylcellosolve | 5.60 | 56000 | 5.0 | 2200 | 220 | 16.17 |
| 17 | Methylcellosolve | 5.90 | 59000 | 5.3 | 2300 | 230 | 17.18 |
| 18 | Methylcellosolve | 6.20 | 62000 | 5.6 | 2400 | 240 | 18.19 |
| 19 | Methylcellosolve | 6.50 | 65000 | 5.9 | 2500 | 250 | 19.20 |
| 20 | Methylcellosolve | 6.80 | 68000 | 6.2 | 2600 | 260 | 20.21 |
| 21 | Methylcellosolve | 7.10 | 71000 | 6.5 | 2700 | 270 | 21.22 |
| 22 | Methylcellosolve | 7.40 | 74000 | 6.8 | 2800 | 280 | 22.23 |
| 23 | Methylcellosolve | 7.70 | 77000 | 7.1 | 2900 | 290 | 23.24 |
| 24 | Methylcellosolve | 8.00 | 80000 | 7.4 | 3000 | 300 | 24.25 |
| 25 | Methylcellosolve | 8.30 | 83000 | 7.7 | 3100 | 310 | 25.26 |
| 26 | Methylcellosolve | 8.60 | 86000 | 8.0 | 3200 | 320 | 26.27 |
| 27 | Methylcellosolve | 8.90 | 89000 | 8.3 | 3300 | 330 | 27.28 |
| 28 | Methylcellosolve | 9.20 | 92000 | 8.6 | 3400 | 340 | 28.29 |
| 29 | Methylcellosolve | 9.50 | 95000 | 8.9 | 3500 | 350 | 29.30 |
| 30 | Methylcellosolve | 9.80 | 98000 | 9.2 | 3600 | 360 | 30.31 |
| 31 | Methylcellosolve | 10.10 | 101000 | 9.5 | 3700 | 370 | 31.32 |
| 32 | Methylcellosolve | 10.40 | 104000 | 9.8 | 3800 | 380 | 32.33 |
| 33 | Methylcellosolve | 10.70 | 107000 | 10.1 | 3900 | 390 | 33.34 |
| 34 | Methylcellosolve | 11.00 | 110000 | 10.4 | 4000 | 400 | 34.35 |
| 35 | Methylcellosolve | 11.30 | 113000 | 10.7 | 4100 | 410 | 35.36 |
| 36 | Methylcellosolve | 11.60 | 116000 | 11.0 | 4200 | 420 | 36.37 |
| 37 | Methylcellosolve | 11.90 | 119000 | 11.3 | 4300 | 430 | 37.38 |
| 38 | Methylcellosolve | 12.20 | 122000 | 11.6 | 4400 | 440 | 38.39 |
| 39 | Methylcellosolve | 12.50 | 125000 | 11.9 | 4500 | 450 | 39.40 |
| 40 | Methylcellosolve | 12.80 | 128000 | 12.2 | 4600 | 460 | 40.41 |
| 41 | Methylcellosolve | 13.10 | 131000 | 12.5 | 4700 | 470 | 41.42 |
| 42 | Methylcellosolve | 13.40 | 134000 | 12.8 | 4800 | 480 | 42.43 |
| 43 | Methylcellosolve | 13.70 | 137000 | 13.1 | 4900 | 490 | 43.44 |
| 44 | Methylcellosolve | 14.00 | 140000 | 13.4 | 5000 | 500 | 44.45 |
| 45 | Methylcellosolve | 14.30 | 143000 | 13.7 | 5100 | 510 | 45.46 |
| 46 | Methylcellosolve | 14.60 | 146000 | 14.0 | 5200 | 520 | 46.47 |
| 47 | Methylcellosolve | 14.90 | 149000 | 14.3 | 5300 | 530 | 47.48 |
| 48 | Methylcellosolve | 15.20 | 152000 | 14.6 | 5400 | 540 | 48.49 |
| 49 | Methylcellosolve | 15.50 | 155000 | 14.9 | 5500 | 550 | 49.50 |
| 50 | Methylcellosolve | 15.80 | 158000 | 15.2 | 5600 | 560 | 50.51 |
| 51 | Methylcellosolve | 16.10 | 161000 | 15.5 | 5700 | 570 | 51.52 |
| 52 | Methylcellosolve | 16.40 | 164000 | 15.8 | 5800 | 580 | 52.53 |
| 53 | Methylcellosolve | 16.70 | 167000 | 16.1 | 5900 | 590 | 53.54 |
| 54 | Methylcellosolve | 17.00 | 170000 | 16.4 | 6000 | 600 | 54.55 |
| 55 | Methylcellosolve | 17.30 | 173000 | 16.7 | 6100 | 610 | 55.56 |
| 56 | Methylcellosolve | 17.60 | 176000 | 17.0 | 6200 | 620 | 56.57 |
| 57 | Methylcellosolve | 17.90 | 179000 | 17.3 | 6300 | 630 | 57.58 |
| 58 | Methylcellosolve | 18.20 | 182000 | 17.6 | 6400 | 640 | 58.59 |
| 59 | Methylcellosolve | 18.50 | 185000 | 17.9 | 6500 | 650 | 59.60 |
| 60 | Methylcellosolve | 18.80 | 188000 | 18.2 | 6600 | 660 | 60.61 |
| 61 | Methylcellosolve | 19.10 | 191000 | 18.5 | 6700 | 670 | 61.62 |
| 62 | Methylcellosolve | 19.40 | 194000 | 18.8 | 6800 | 680 | 62.63 |
| 63 | Methylcellosolve | 19.70 | 197000 | 19.1 | 6900 | 690 | 63.64 |
| 64 | Methylcellosolve | 20.00 | 200000 | 19.4 | 7000 | 700 | 64.65 |
| 65 | Methylcellosolve | 20.30 | 203000 | 19.7 | 7100 | 710 | 65.66 |
| 66 | Methylcellosolve | 20.60 | 206000 | 20.0 | 7200 | 720 | 66.67 |
| 67 | Methylcellosolve | 20.90 | 209000 | 20.3 | 7300 | 730 | 67.68 |
| 68 | Methylcellosolve | 21.20 | 212000 | 20.6 | 7400 | 740 | 68.69 |
| 69 | Methylcellosolve | 21.50 | 215000 | 20.9 | 7500 | 750 | 69.70 |
| 70 | Methylcellosolve | 21.80 | 218000 | 21.2 | 7600 | 760 | 70.71 |
| 71 | Methylcellosolve | 22.10 | 221000 | 21.5 | 7700 | 770 | 71.72 |
| 72 | Methylcellosolve | 22.40 | 224000 | 21.8 | 7800 | 780 | 72.73 |
| 73 | Methylcellosolve | 22.70 | 227000 | 22.1 | 7900 | 790 | 73.74 |
| 74 | Methylcellosolve | 23.00 | 230000 | 22.4 | 8000 | 800 | 74.75 |
| 75 | Methylcellosolve | 23.30 | 233000 | 22.7 | 8100 | 810 | 75.76 |
| 76 | Methylcellosolve | 23.60 | 236000 | 23.0 | 8200 | 820 | 76.77 |
| 77 | Methylcellosolve | 23.90 | 239000 | 23.3 | 8300 | 830 | 77.78 |
| 78 | Methylcellosolve | 24.20 | 242000 | 23.6 | 8400 | 840 | 78.79 |
| 79 | Methylcellosolve | 24.50 | 245000 | 23.9 | 8500 | 850 | 79.80 |
| 80 | Methylcellosolve | 24.80 | 248000 | 24.2 | 8600 | 860 | 80.81 |
| 81 | Methylcellosolve | 25.10 | 251000 | 24.5 | 8700 | 870 | 81.82 |
| 82 | Methylcellosolve | 25.40 | 254000 | 24.8 | 8800 | 880 | 82.83 |
| 83 | Methylcellosolve | 25.70 | 257000 | 25.1 | 8900 | 890 | 83.84 |
| 84 | Methylcellosolve | 26.00 | 260000 | 25.4 | 9000 | 900 | 84.85 |
| 85 | Methylcellosolve | 26.30 | 263000 | 25.7 | 9100 | 910 | 85.86 |
| 86 | Methylcellosolve | 26.60 | 266000 | 26.0 | 9200 | 920 | 86.87 |
| 87 | Methylcellosolve | 26.90 | 269000 | 26.3 | 9300 | 930 | 87.88 |
| 88 | Methylcellosolve | 27.20 | 272000 | 26.6 | 9400 | 940 | 88.89 |
| 89 | Methylcellosolve | 27.50 | 275000 | 26.9 | 9500 | 950 | 89.90 |
| 90 | Methylcellosolve | 27.80 | 278000 | 27.2 | 9600 | 960 | 90.91 |
| 91 | Methylcellosolve | 28.10 | 281000 | 27.5 | 9700 | 970 | 91.92 |
| 92 | Methylcellosolve | 28.40 | 284000 | 27.8 | 9800 | 980 | 92.93 |
| 93 | Methylcellosolve | 28.70 | 287000 | 28.1 | 9900 | 990 | 93.94 |
| 94 | Methylcellosolve | 29.00 | 290000 | 28.4 | 10000 | 1000 | 94.95 |
| 95 | Methylcellosolve | 29.30 | 293000 | 28.7 | 10100 | 1010 | 95.96 |
| 96 | Methylcellosolve | 29.60 | 296000 | 29.0 | 10200 | 1020 | 96.97 |
| 97 | Methylcellosolve | 29.90 | 299000 | 29.3 | 10300 | 1030 | 97.98 |
| 98 | Methylcellosolve | 30.20 | 302000 | 29.6 | 10400 | 1040 | 98.99 |
| 99 | Methylcellosolve | 30.50 | 305000 | 29.9 | 10500 | 1050 | 99.00 |
| 100 | Methylcellosolve | 30.80 | 308000 | 30.2 | 10600 | 1060 | |



| Peak # | Retention Time (min) | Area | Height | Width (min) | Resolution (min) | Integration | Signal |
|--------|----------------------|-----------|--------|-------------|------------------|-------------|-----------|
| 1 | 10.15 | 107428.00 | 1.15 | 1.15 | 1.15 | 0.0000 | 107428.00 |
| 2 | 10.25 | 532009.73 | 2.74 | 1.28 | 0.0000 | 0.0000 | 532009.73 |
| 3 | 11.02 | 1840.00 | 0.18 | 0.18 | 0.0000 | 0.0000 | 1840.00 |
| 4 | 11.28 | 107428.00 | 1.15 | 1.15 | 0.0000 | 0.0000 | 107428.00 |
| 5 | 11.38 | 532009.73 | 2.74 | 1.28 | 0.0000 | 0.0000 | 532009.73 |
| 6 | 11.52 | 1840.00 | 0.18 | 0.18 | 0.0000 | 0.0000 | 1840.00 |
| 7 | 11.78 | 107428.00 | 1.15 | 1.15 | 0.0000 | 0.0000 | 107428.00 |
| 8 | 11.88 | 532009.73 | 2.74 | 1.28 | 0.0000 | 0.0000 | 532009.73 |
| 9 | 12.02 | 1840.00 | 0.18 | 0.18 | 0.0000 | 0.0000 | 1840.00 |
| 10 | 12.28 | 107428.00 | 1.15 | 1.15 | 0.0000 | 0.0000 | 107428.00 |
| 11 | 12.38 | 532009.73 | 2.74 | 1.28 | 0.0000 | 0.0000 | 532009.73 |
| 12 | 12.52 | 1840.00 | 0.18 | 0.18 | 0.0000 | 0.0000 | 1840.00 |



Quantify Sample Report
Visia Analytical Laboratory

Dataset: Untitled

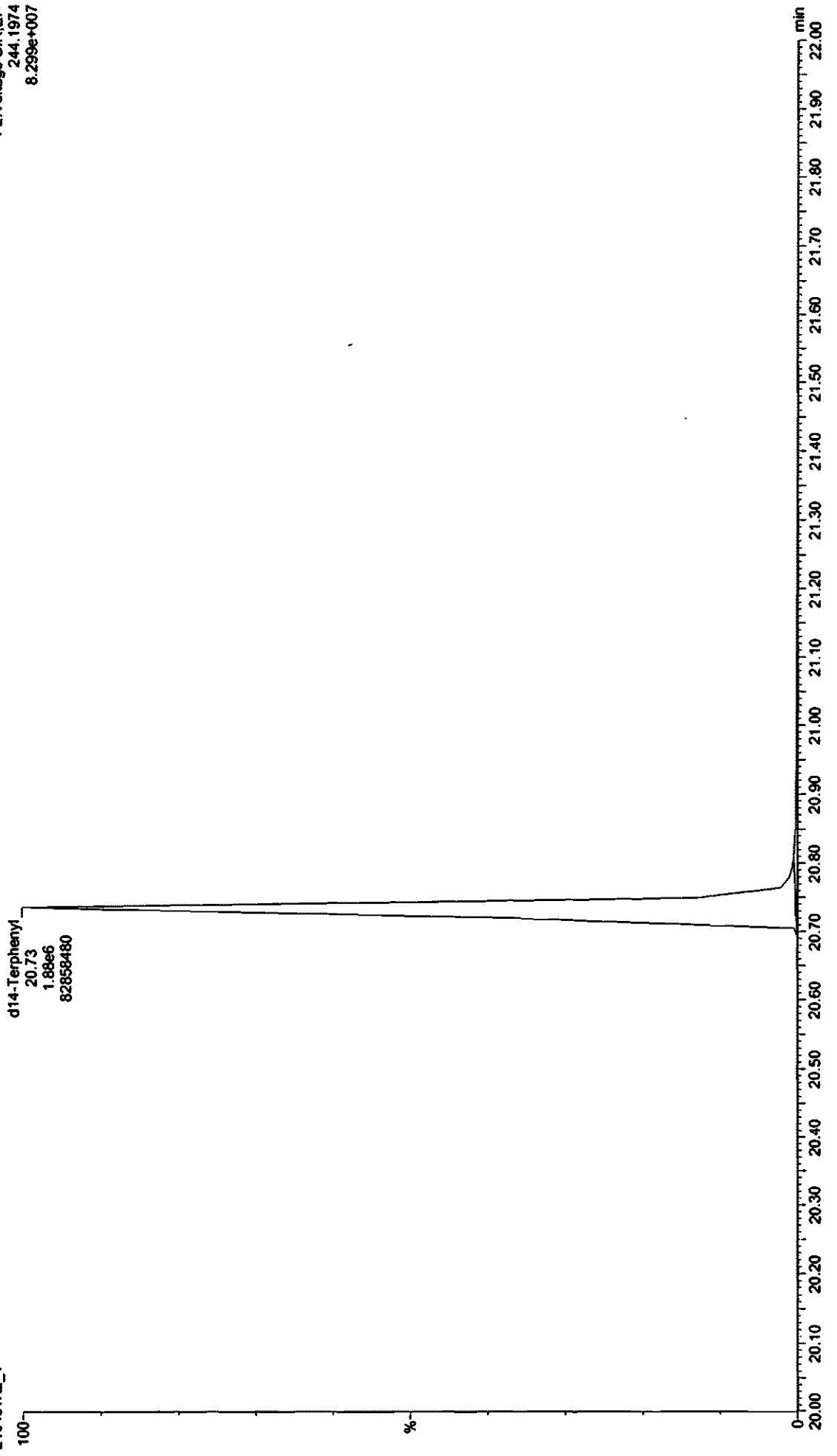
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510

d14-Terphenyl (PS)

210401K2_1

F2:Voltage SIR,EI+
244.1974
8.299e+007



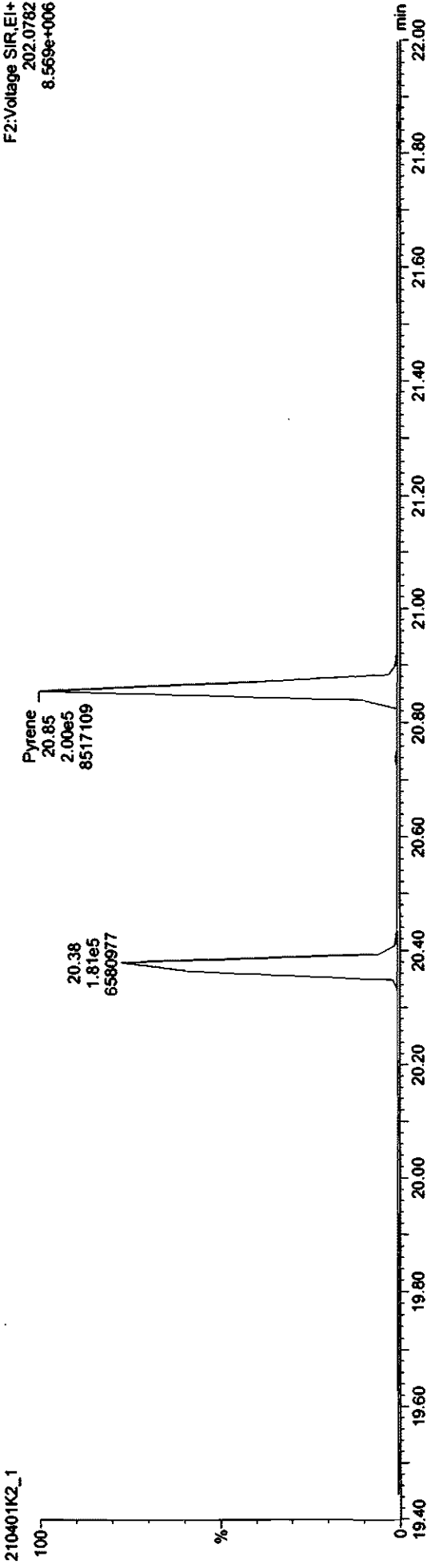
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510

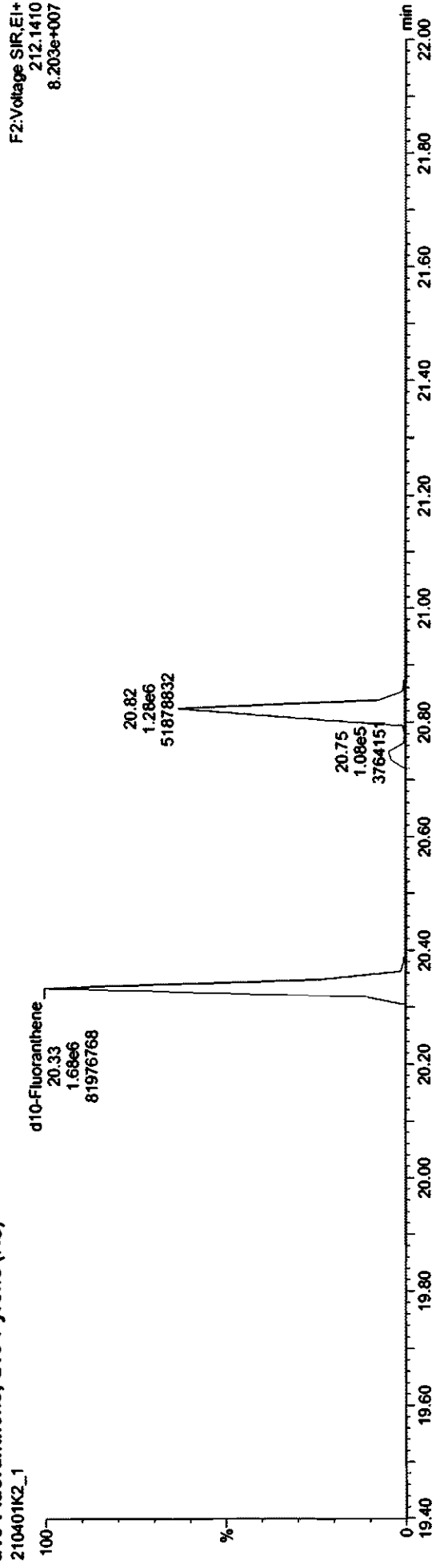
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
8.569e+006



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
8.203e+007



Quantify Sample Report
Vista Analytical Laboratory

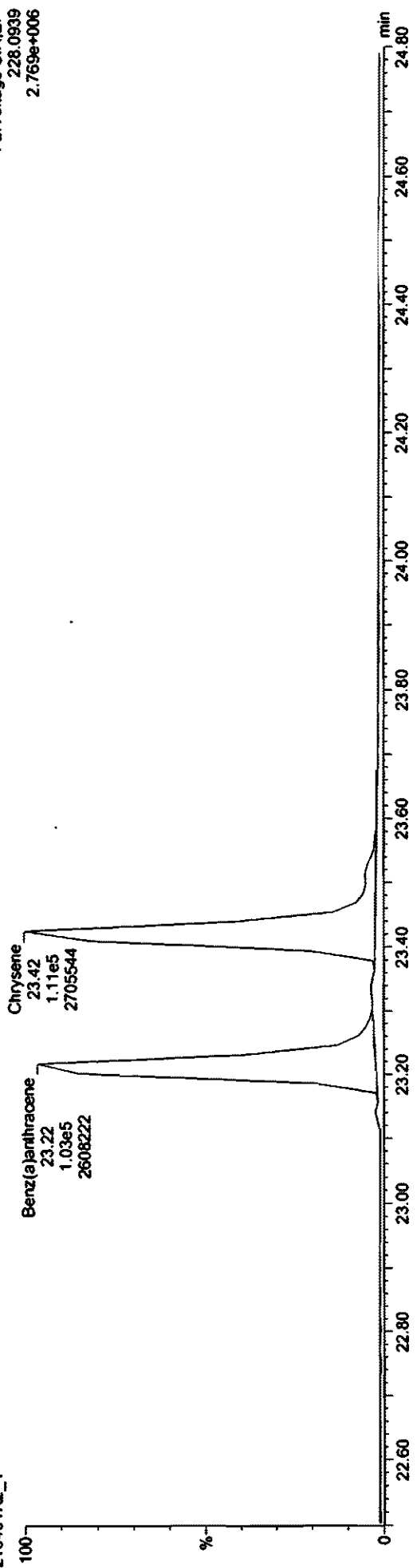
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510

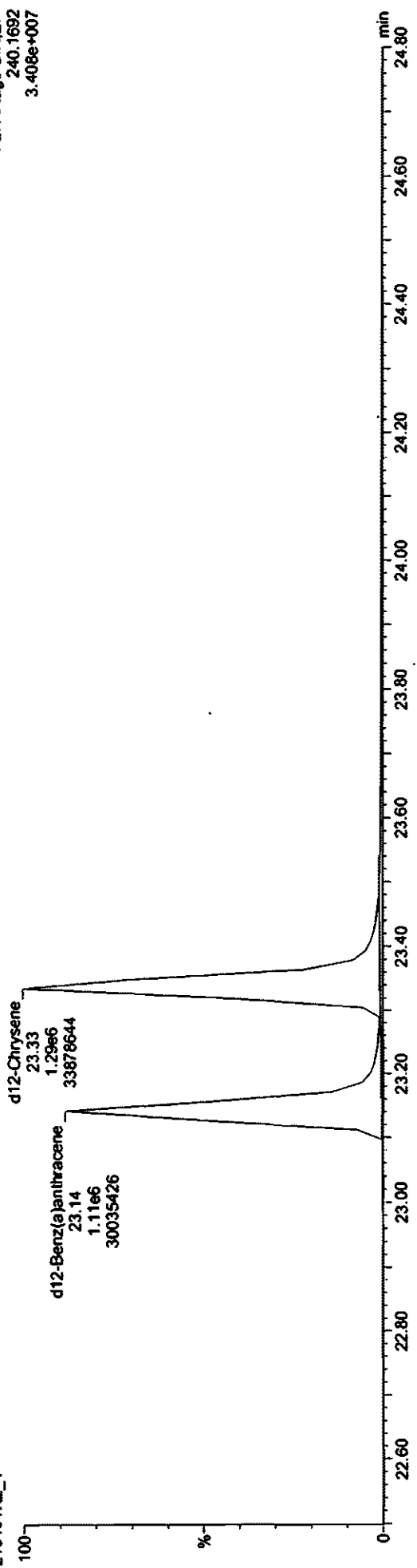
Benz(a)Anthracene-Chrysene
210401K2_1

F2:Voltage SIR,EI+
228.0939
2.769e+006

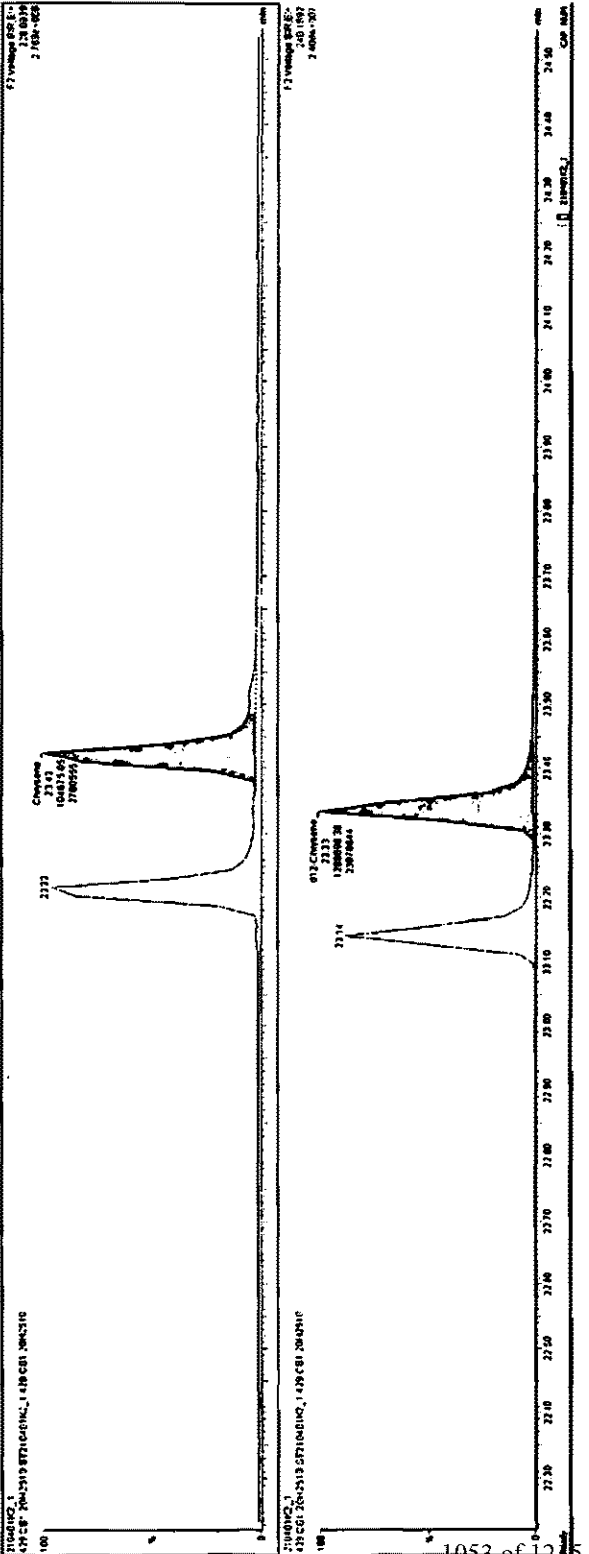


Benz(a)Anthracene-Chrysene-Iso
210401K2_1

F2:Voltage SIR,EI+
240.1692
3.408e+007



| Peak | Retention Time (min) | Area | Height | % Area | Height |
|------|----------------------|---------|--------|--------|--------|
| 1 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 2 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 3 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 4 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 5 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 6 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 7 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 8 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 9 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 10 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 11 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 12 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 13 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 14 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 15 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 16 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 17 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 18 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 19 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 20 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 21 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 22 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 23 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 24 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 25 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 26 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 27 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 28 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 29 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 30 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 31 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 32 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 33 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 34 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 35 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 36 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 37 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 38 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 39 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 40 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 41 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 42 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 43 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 44 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 45 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 46 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 47 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 48 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 49 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |
| 50 | 18.15 | 1047348 | 21.00 | 1.5 | 1.18 |

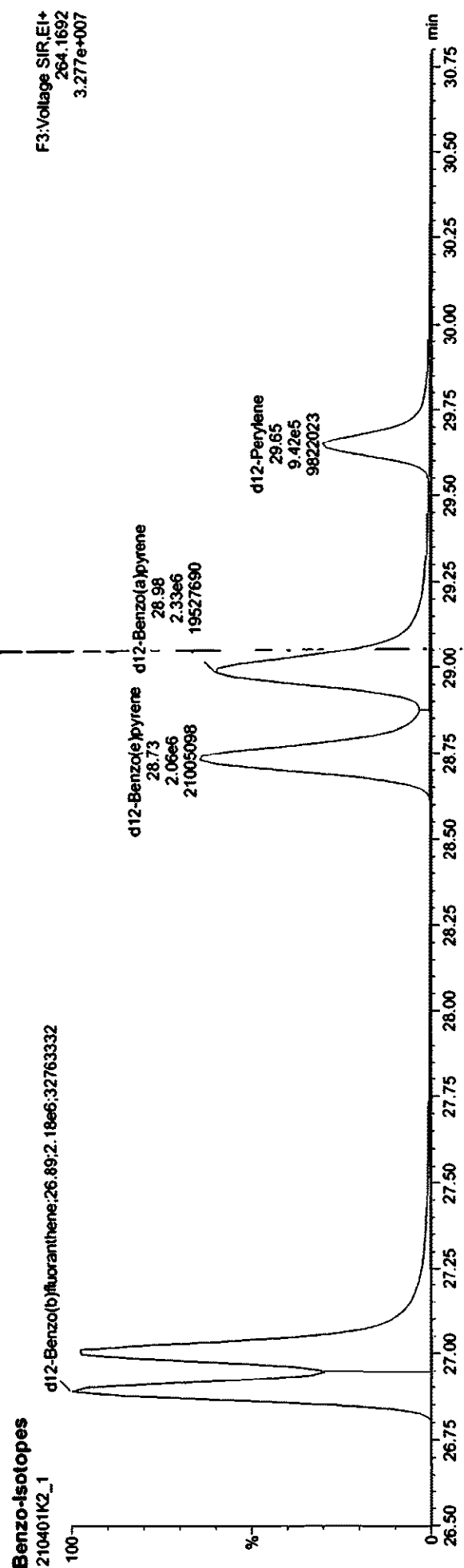
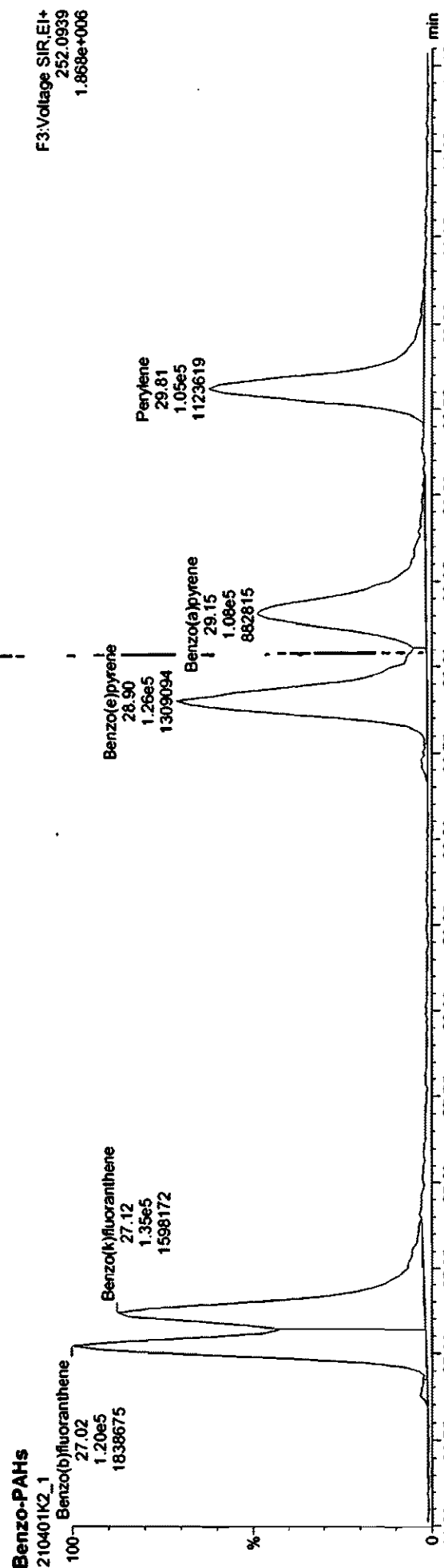


Quantify Sample Report
Visia Analytical Laboratory

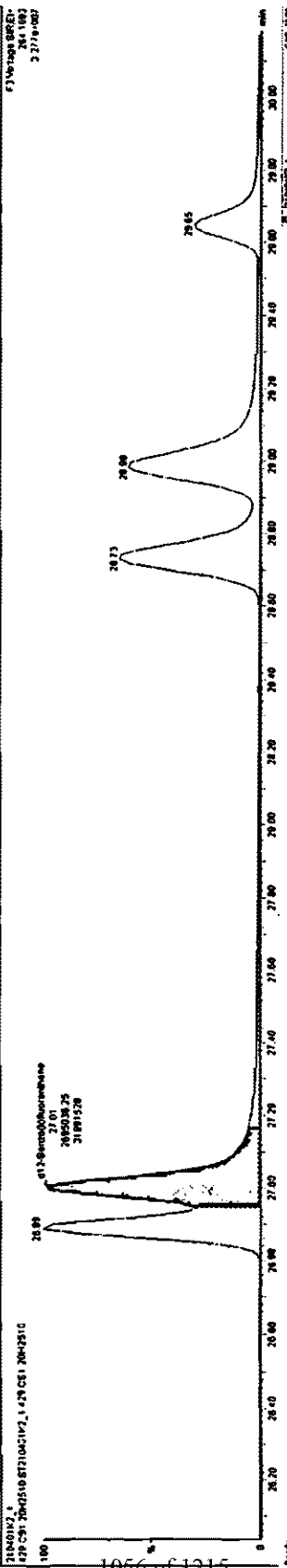
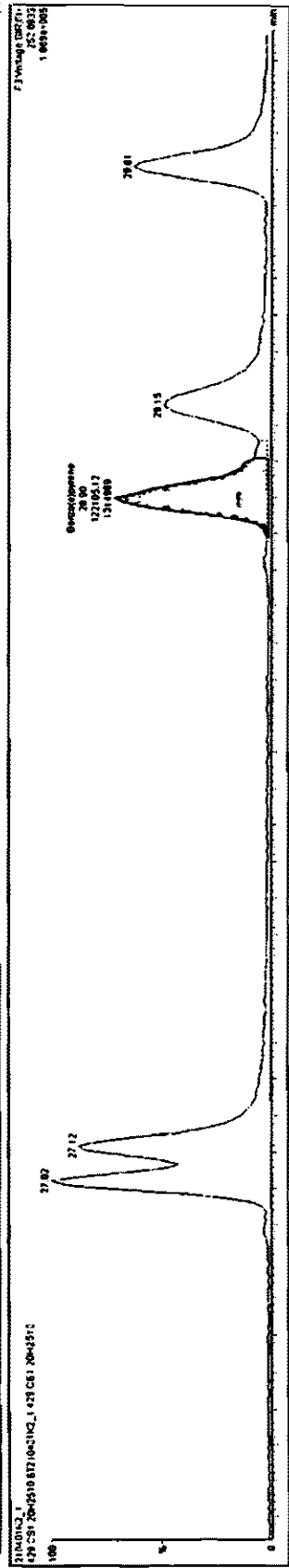
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

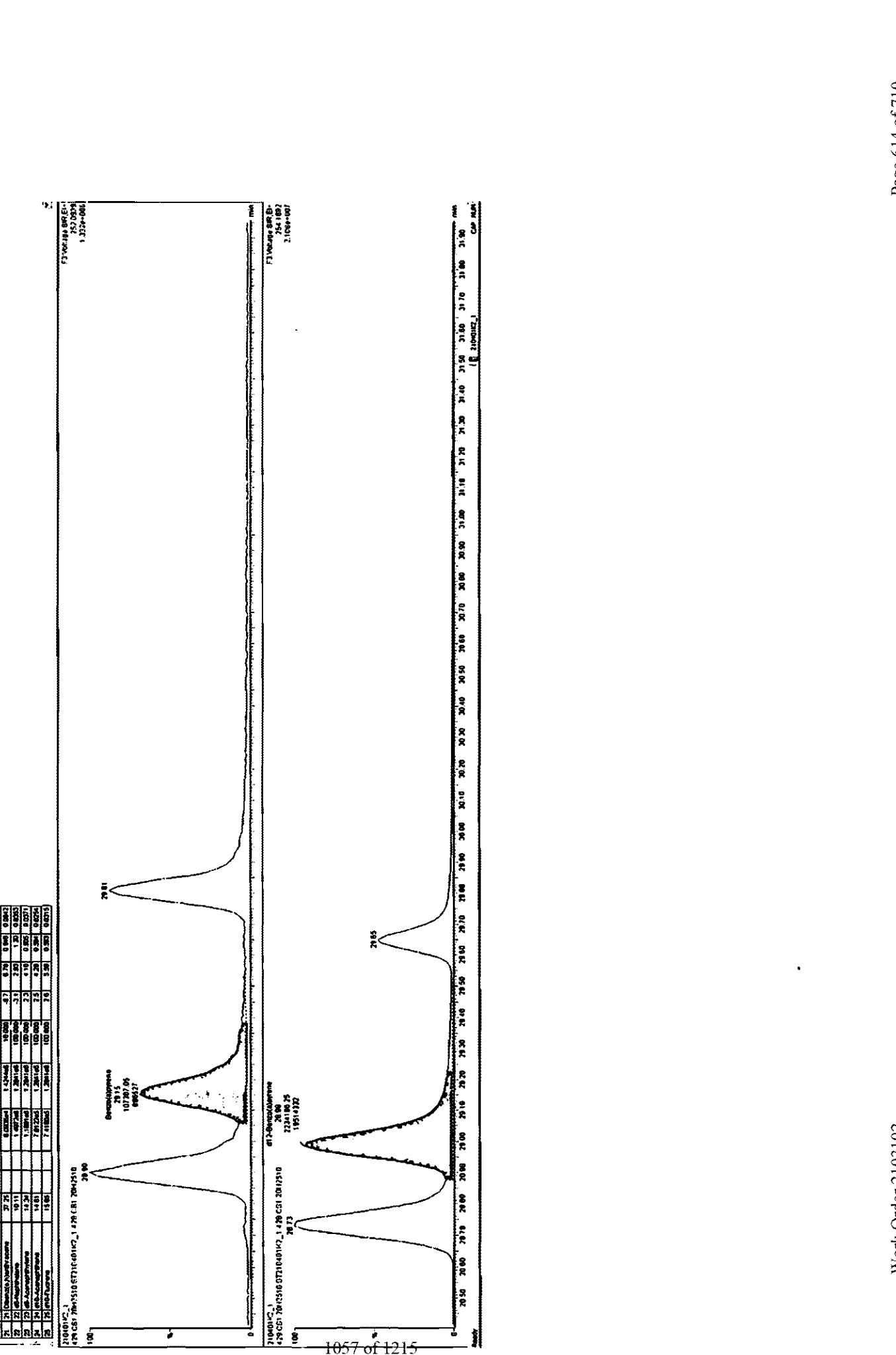
Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510



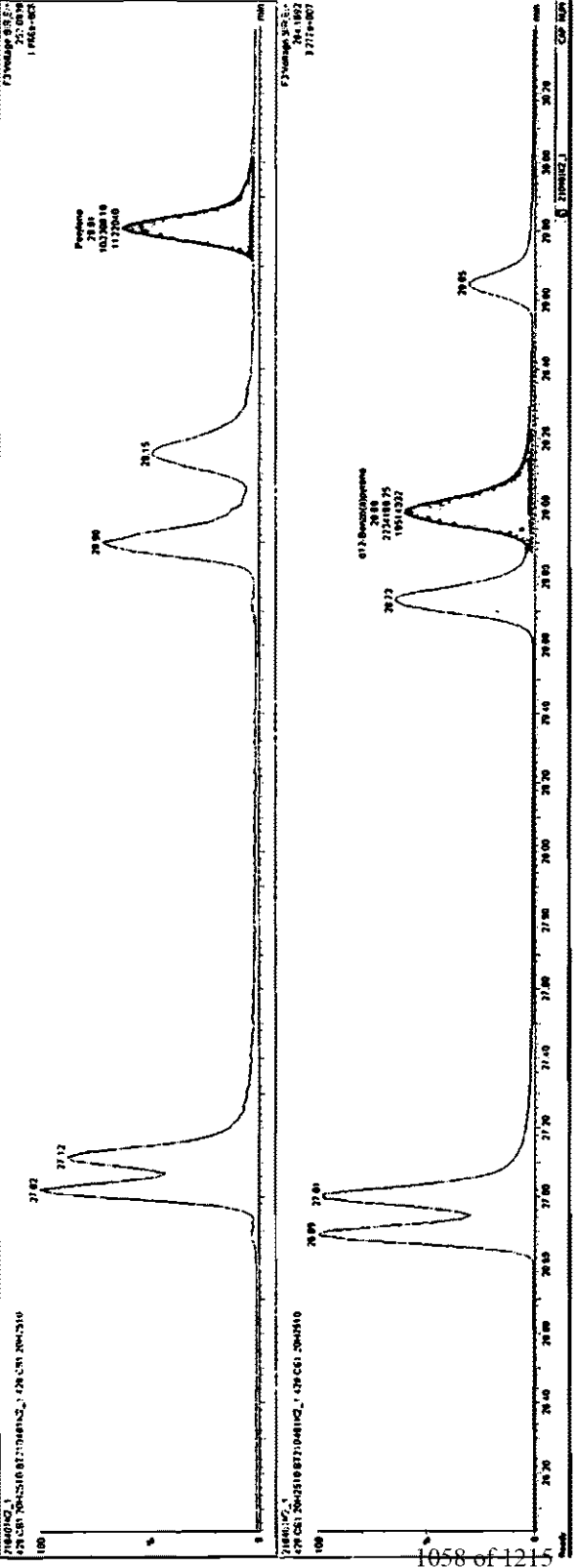
| RT | Area | Height | Width | Area% | Height% | Width% |
|-------|-------|--------|-------|-------|---------|--------|
| 14.14 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 15.15 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 16.16 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 17.17 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 18.18 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 19.19 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 20.20 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 21.21 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 22.22 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 23.23 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 24.24 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 25.25 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 26.26 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 27.27 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 28.28 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 29.29 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 30.30 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 31.31 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 32.32 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 33.33 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 34.34 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 35.35 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 36.36 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 37.37 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 38.38 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 39.39 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 40.40 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 41.41 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 42.42 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 43.43 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 44.44 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 45.45 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 46.46 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 47.47 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 48.48 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 49.49 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |
| 50.50 | 10000 | 10000 | 0.3 | 0.01 | 1.10 | 0.0030 |



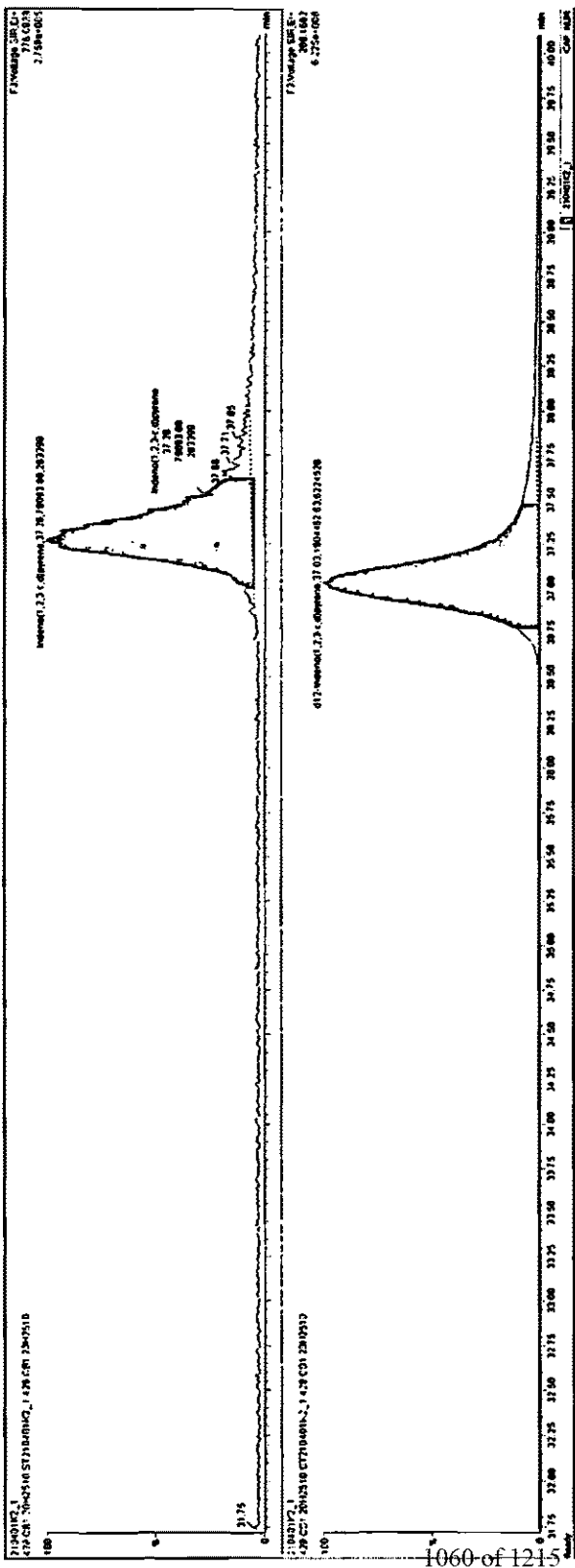
| RT | Area | Height | Width | SNR | Integ | Area% | Height% | Width% | SNR% | Integ% |
|----|------|--------|-------|-----|-------|-------|---------|--------|------|--------|
| 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |



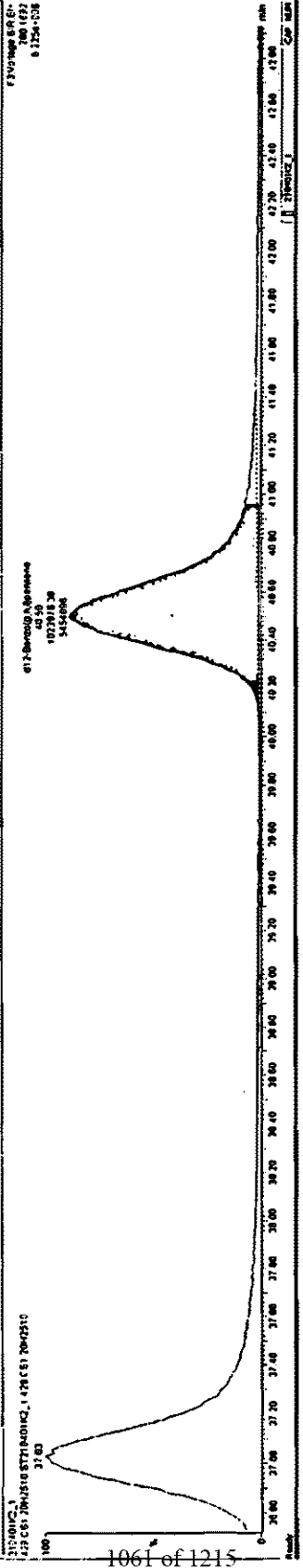
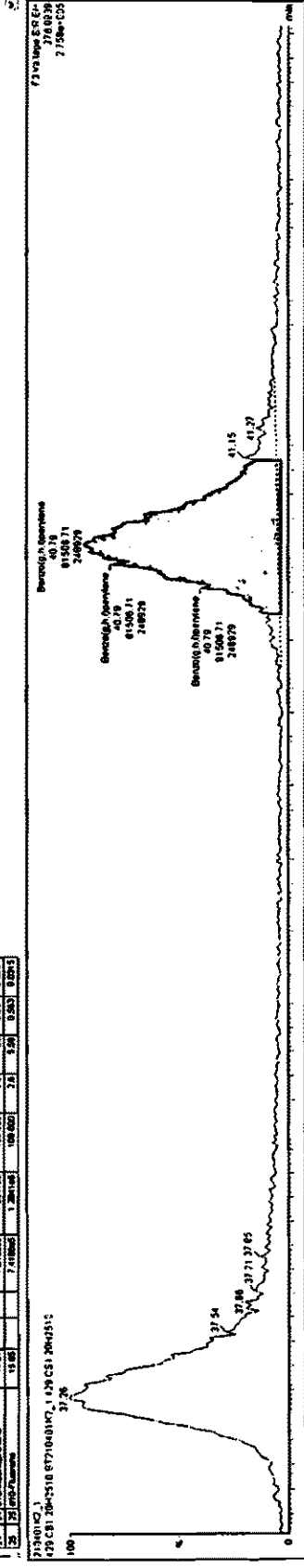
| RT | Area | % | Height | Width | Skew | Symmetry | Resolution |
|-------|--------|-----|--------|-------|------|----------|------------|
| 27.02 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 27.13 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 27.89 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 28.73 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 28.86 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 29.15 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 29.86 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 30.80 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 31.32 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 37.89 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 38.73 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 39.15 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 39.86 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 40.80 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 41.32 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 47.89 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 48.73 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 49.15 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 49.86 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 50.80 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |
| 51.32 | 100000 | 4.1 | 1.10 | 0.20 | 1.05 | 1.05 | 0.20 |



| Time | Area | Height | Width | Area% | Height% | Width% |
|-------|--------|--------|--------|--------|---------|--------|
| 17.40 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.41 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.42 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.43 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.44 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.45 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.46 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.47 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.48 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.49 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.50 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.51 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.52 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.53 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.54 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.55 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.56 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.57 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.58 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.59 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.60 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.61 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.62 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.63 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.64 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.65 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.66 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.67 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.68 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.69 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.70 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.71 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.72 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.73 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.74 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.75 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.76 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.77 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.78 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.79 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.80 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.81 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.82 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.83 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.84 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.85 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.86 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.87 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.88 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.89 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.90 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.91 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.92 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.93 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.94 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.95 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.96 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.97 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.98 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 17.99 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |
| 18.00 | 100000 | 1.0000 | 0.1000 | 100.00 | 100.00 | 100.00 |



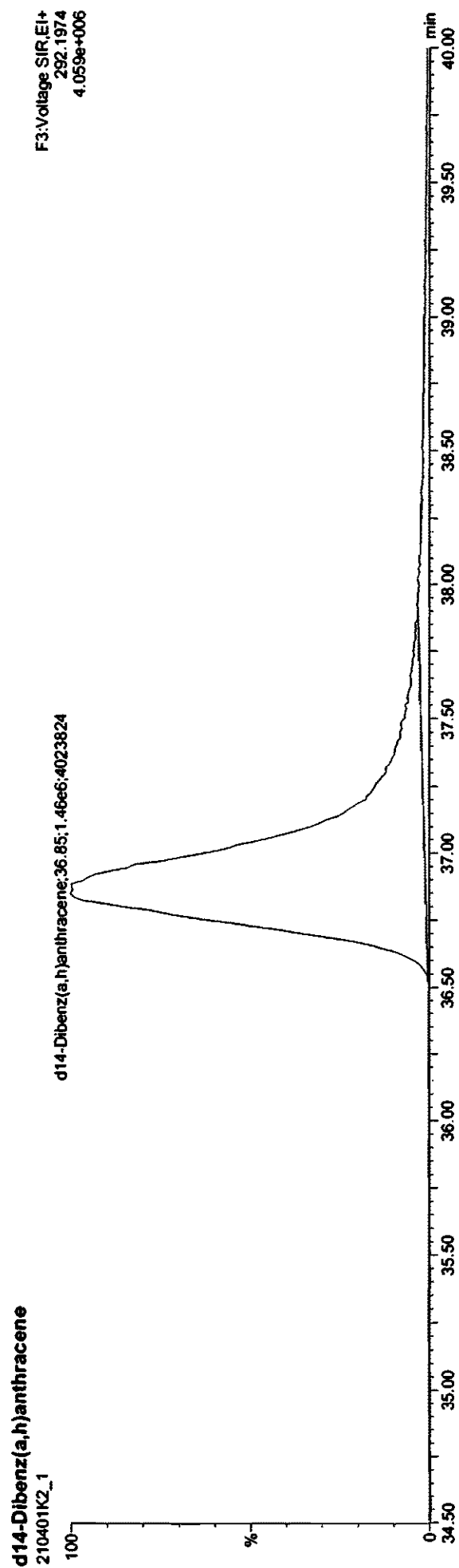
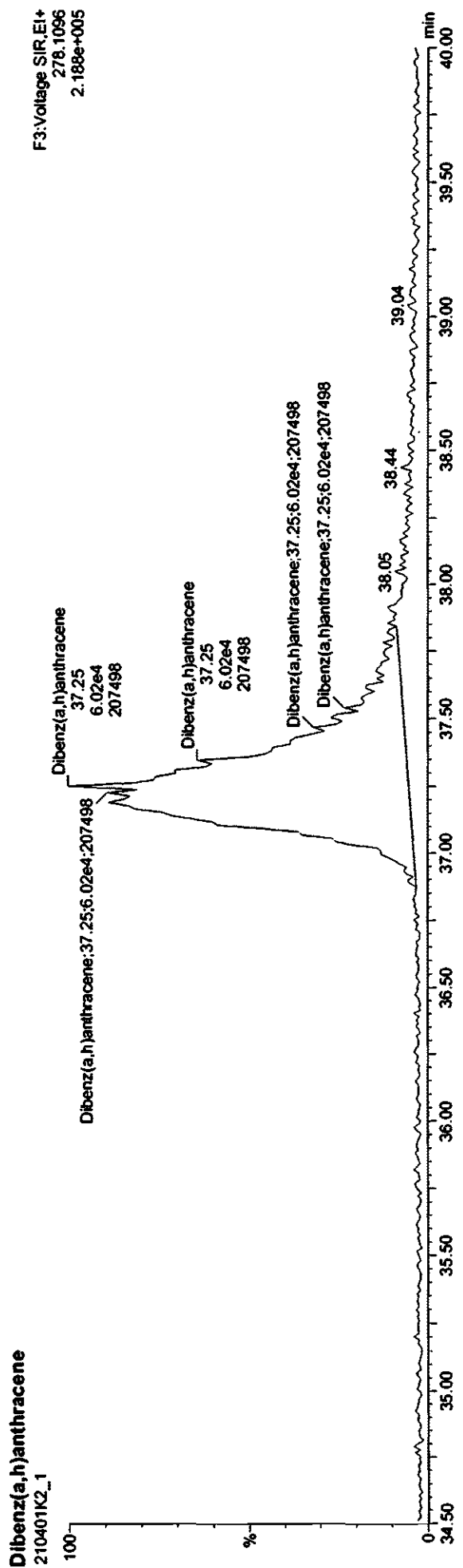
| Peak # | Retention Time (min) | Area | Height | Width | Height % | Area % |
|--------|----------------------|-------|--------|-------|----------|--------|
| 1 | 1.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 2 | 1.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 3 | 1.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 4 | 1.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 5 | 1.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 6 | 1.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 7 | 1.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 8 | 1.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 9 | 2.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 10 | 2.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 11 | 2.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 12 | 2.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 13 | 2.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 14 | 2.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 15 | 2.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 16 | 2.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 17 | 2.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 18 | 2.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 19 | 3.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 20 | 3.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 21 | 3.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 22 | 3.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 23 | 3.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 24 | 3.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 25 | 3.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 26 | 3.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 27 | 3.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 28 | 3.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 29 | 4.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 30 | 4.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 31 | 4.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 32 | 4.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 33 | 4.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 34 | 4.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 35 | 4.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 36 | 4.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 37 | 4.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 38 | 4.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 39 | 5.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 40 | 5.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 41 | 5.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 42 | 5.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 43 | 5.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 44 | 5.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 45 | 5.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 46 | 5.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 47 | 5.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 48 | 5.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 49 | 6.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 50 | 6.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 51 | 6.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 52 | 6.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 53 | 6.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 54 | 6.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 55 | 6.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 56 | 6.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 57 | 6.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 58 | 6.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 59 | 7.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 60 | 7.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 61 | 7.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 62 | 7.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 63 | 7.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 64 | 7.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 65 | 7.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 66 | 7.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 67 | 7.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 68 | 7.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 69 | 8.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 70 | 8.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 71 | 8.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 72 | 8.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 73 | 8.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 74 | 8.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 75 | 8.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 76 | 8.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 77 | 8.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 78 | 8.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 79 | 9.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 80 | 9.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 81 | 9.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 82 | 9.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 83 | 9.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 84 | 9.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 85 | 9.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 86 | 9.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 87 | 9.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 88 | 9.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 89 | 10.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 90 | 10.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 91 | 10.20 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 92 | 10.30 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 93 | 10.40 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 94 | 10.50 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 95 | 10.60 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 96 | 10.70 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 97 | 10.80 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 98 | 10.90 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 99 | 11.00 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |
| 100 | 11.10 | 10000 | 1.00 | 1.00 | 0.0001 | 0.0001 |



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

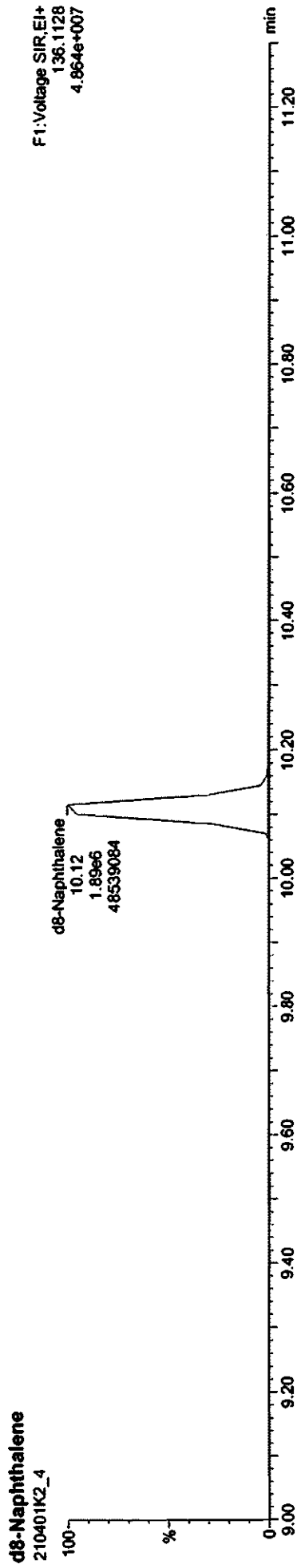
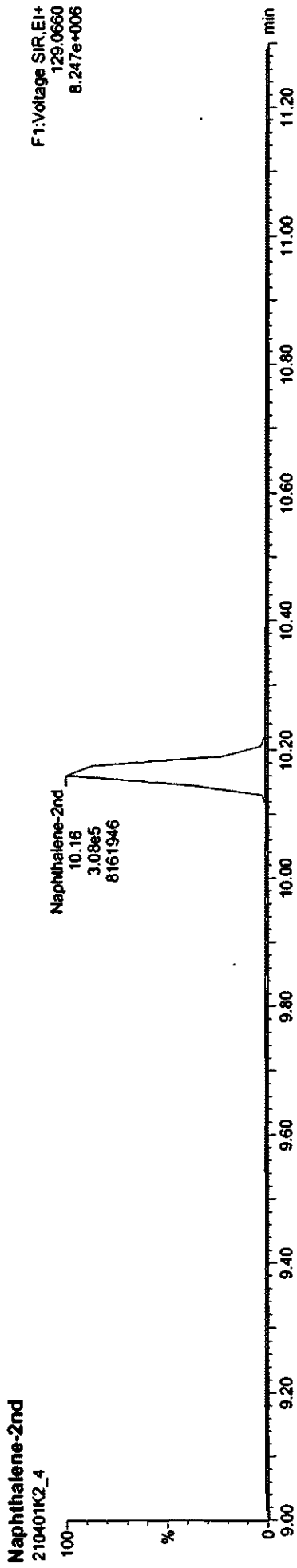
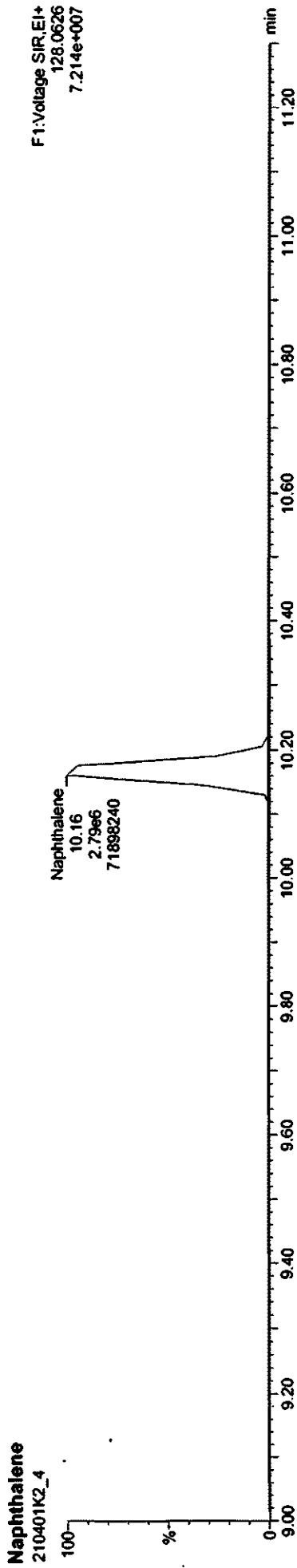
Name: 210401K2_1, Date: 01-Apr-2021, Time: 09:34:39, ID: ST210401K2_1 429 CS1 20H2510, Description: 429 CS1 20H2510



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511



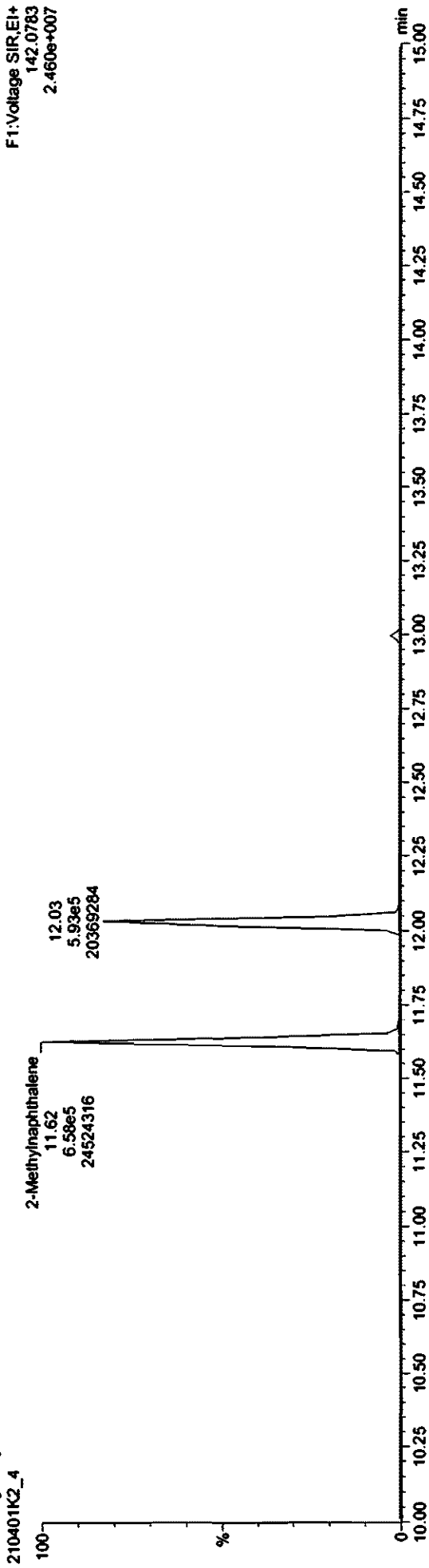
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

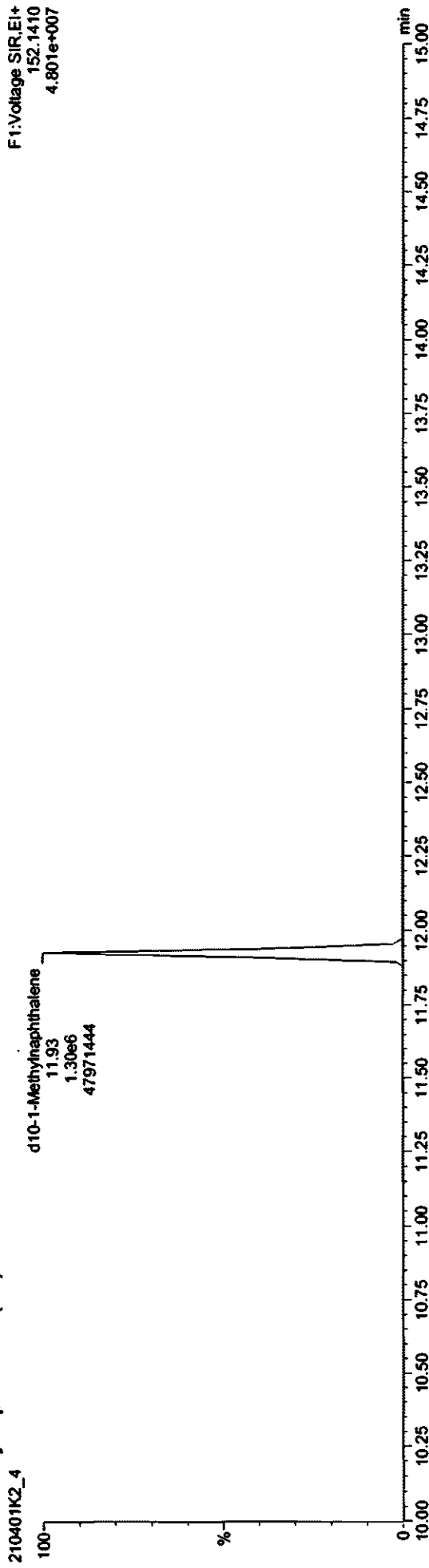
2-Methylnaphthalene

F1:Voltage SIR,EI+
142.0783
2.460e+007



d10-1-Methylnaphthalene (RS)

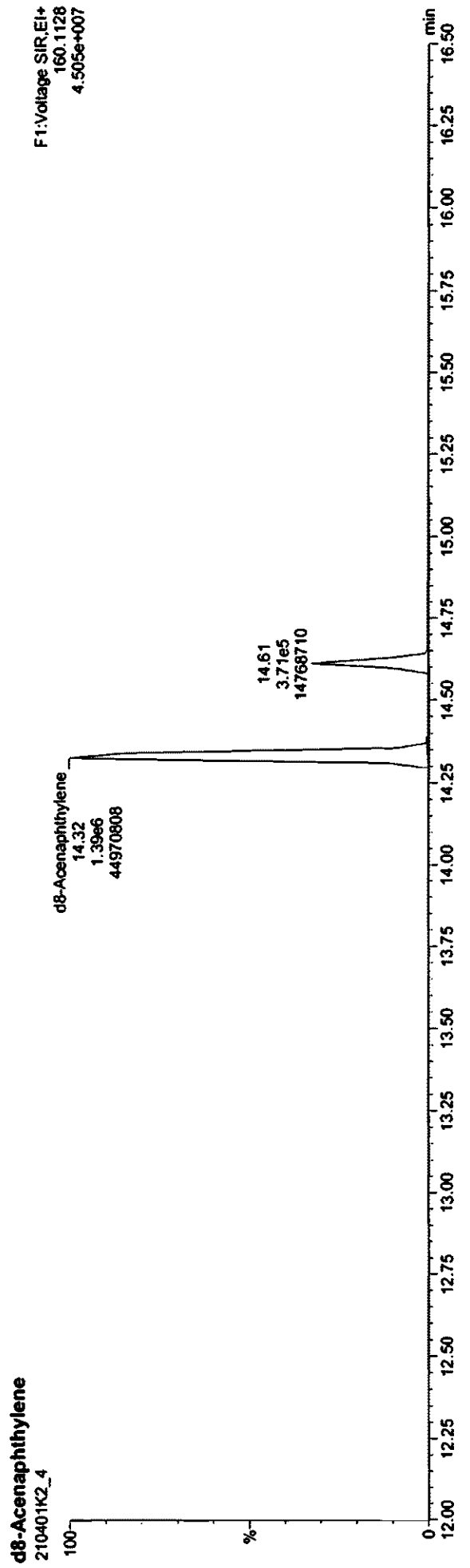
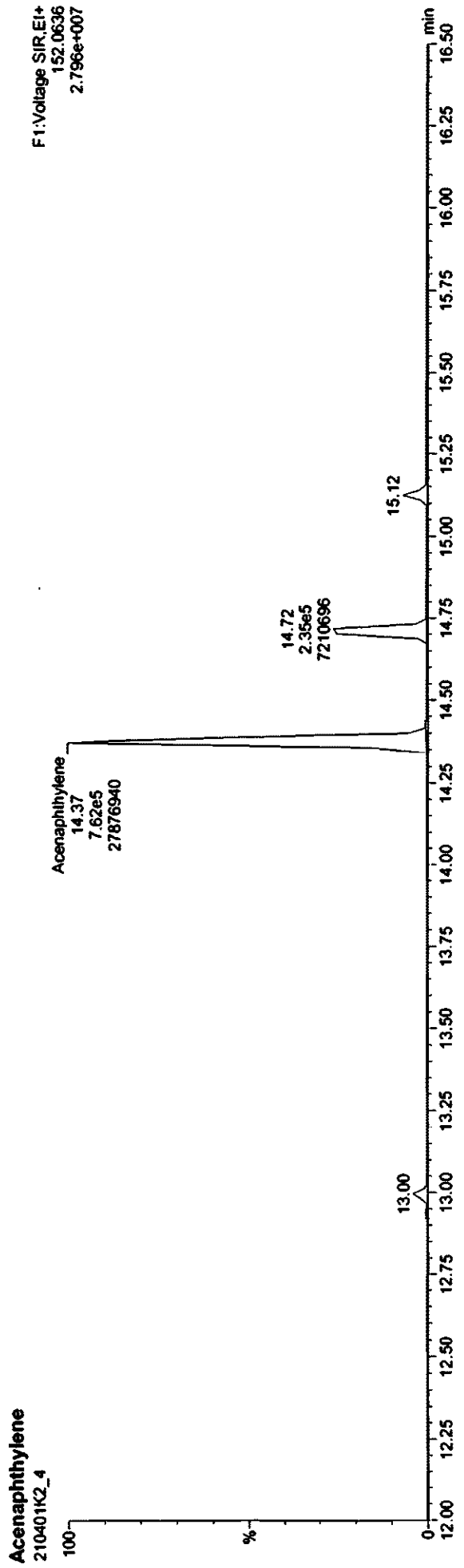
F1:Voltage SIR,EI+
152.1410
4.801e+007



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

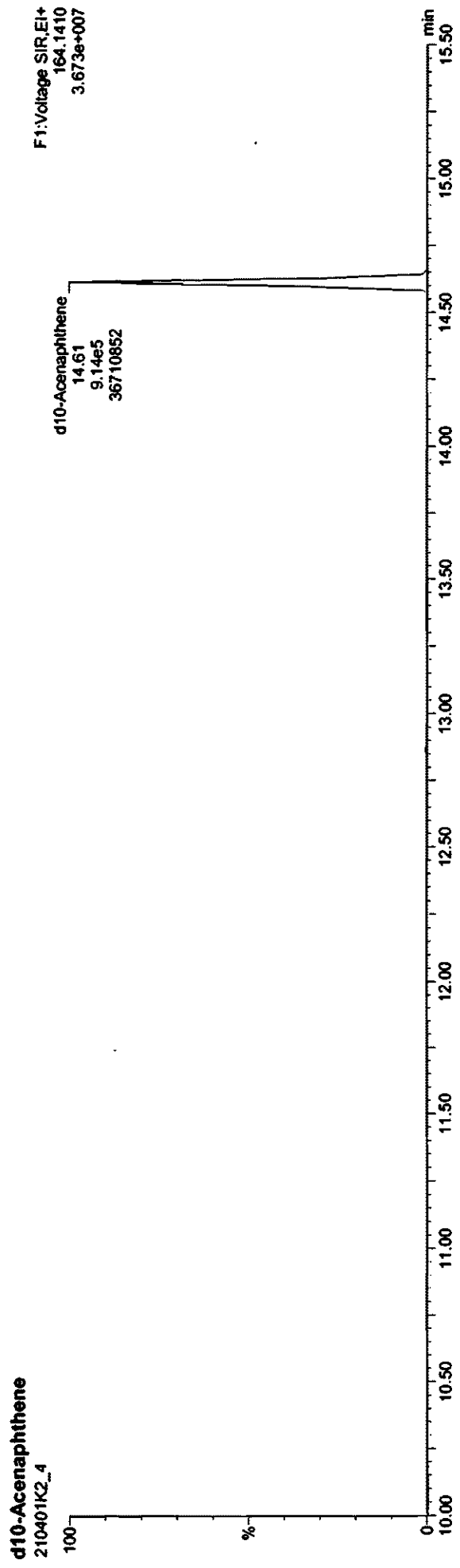
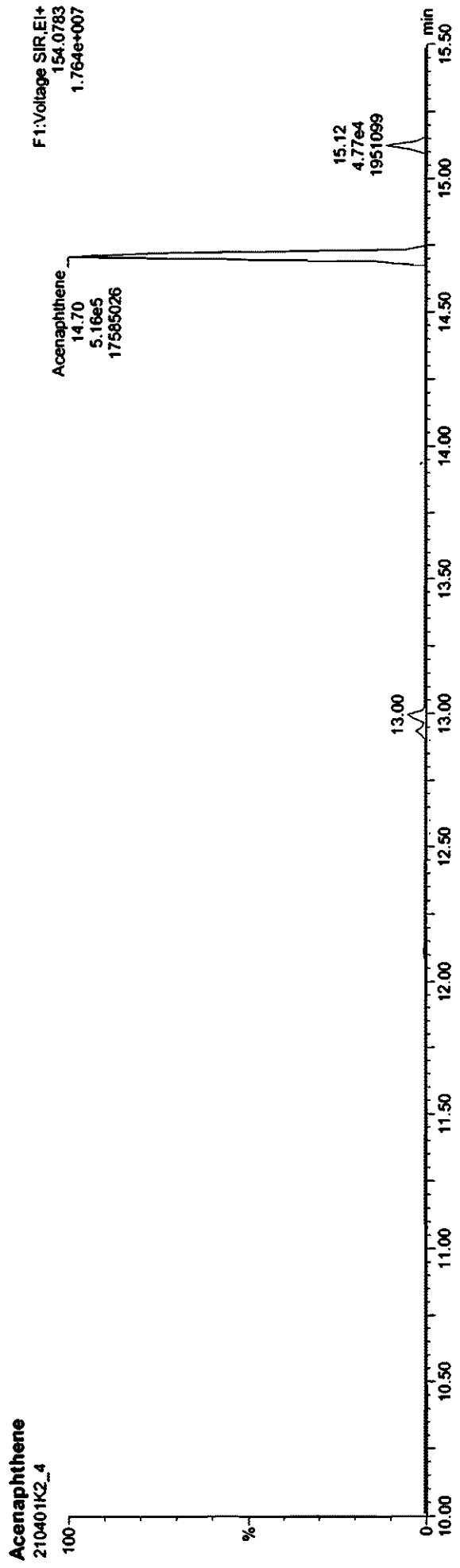
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Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

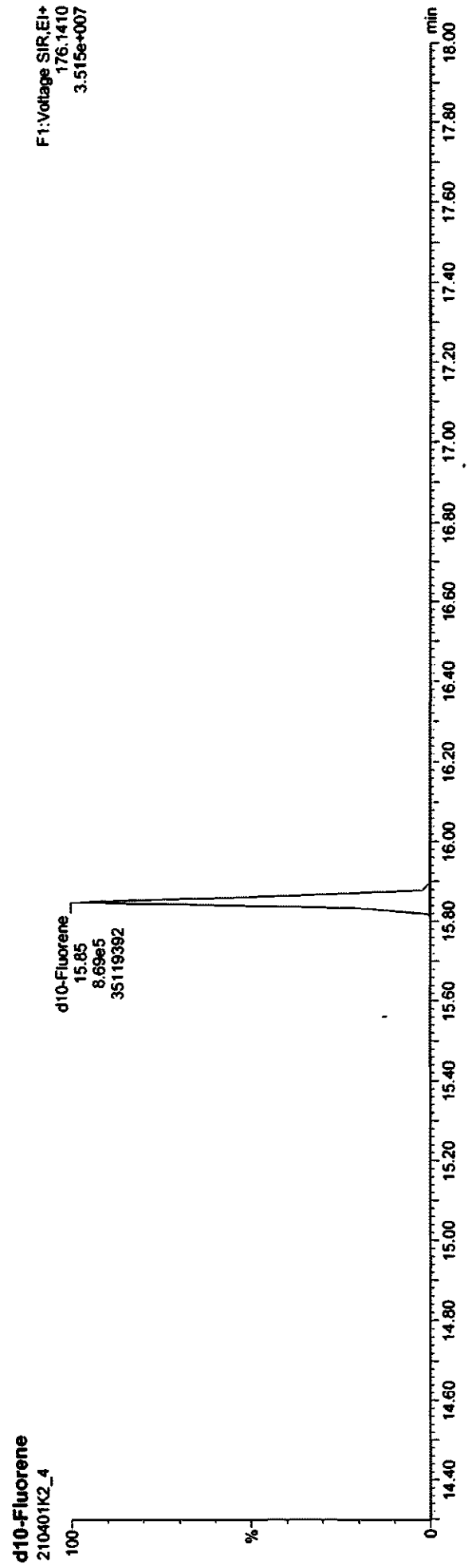
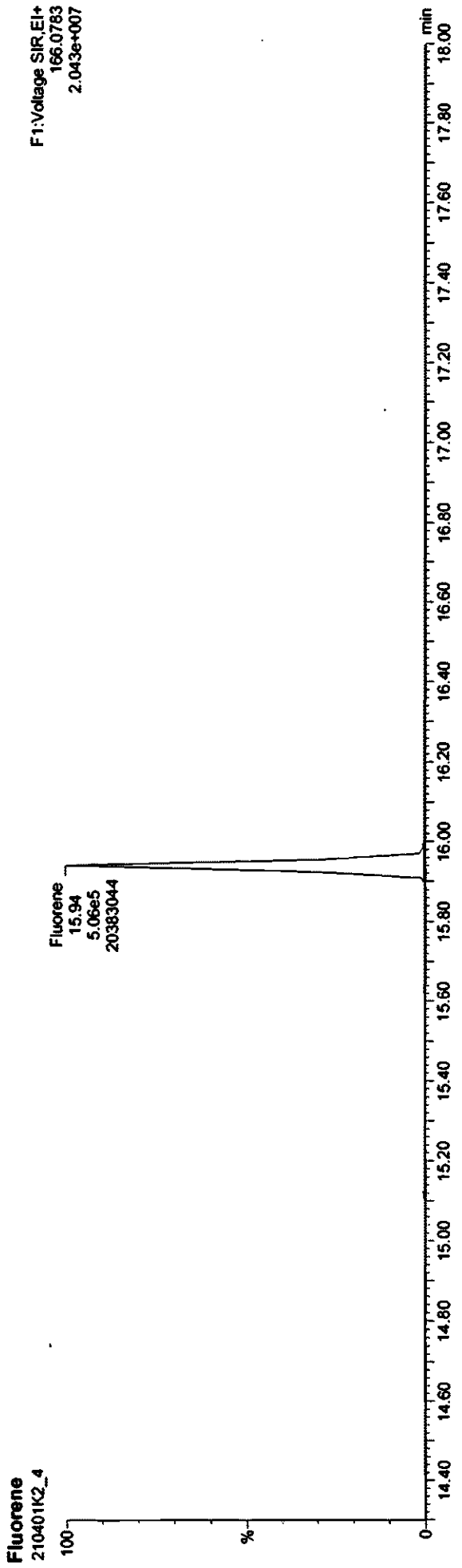


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

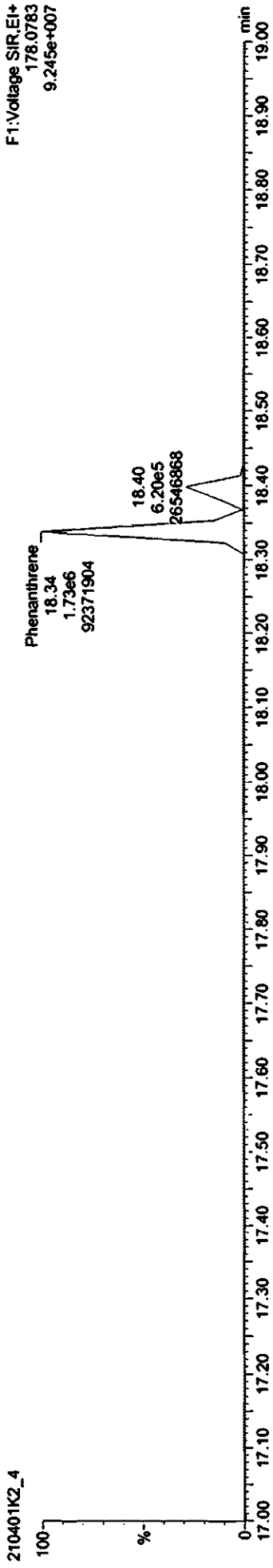


Dataset: Untitled

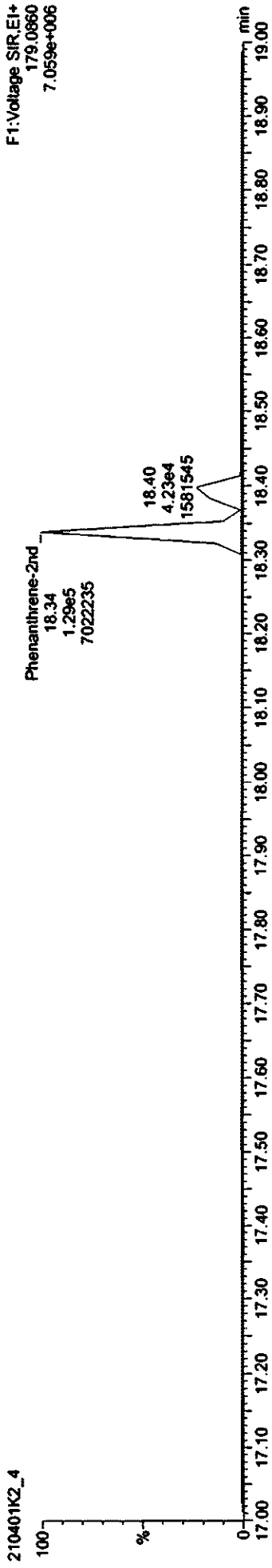
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

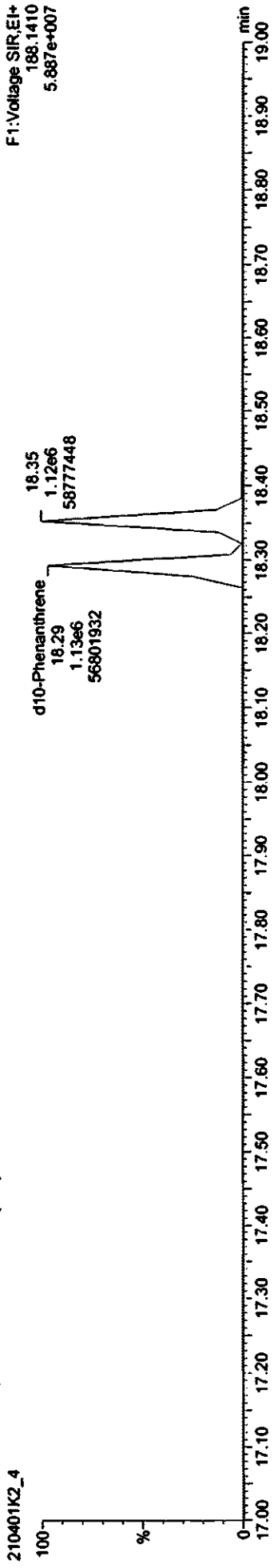
Phenanthrene; Anthracene



Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)



Quantify Sample Report
Vista Analytical Laboratory

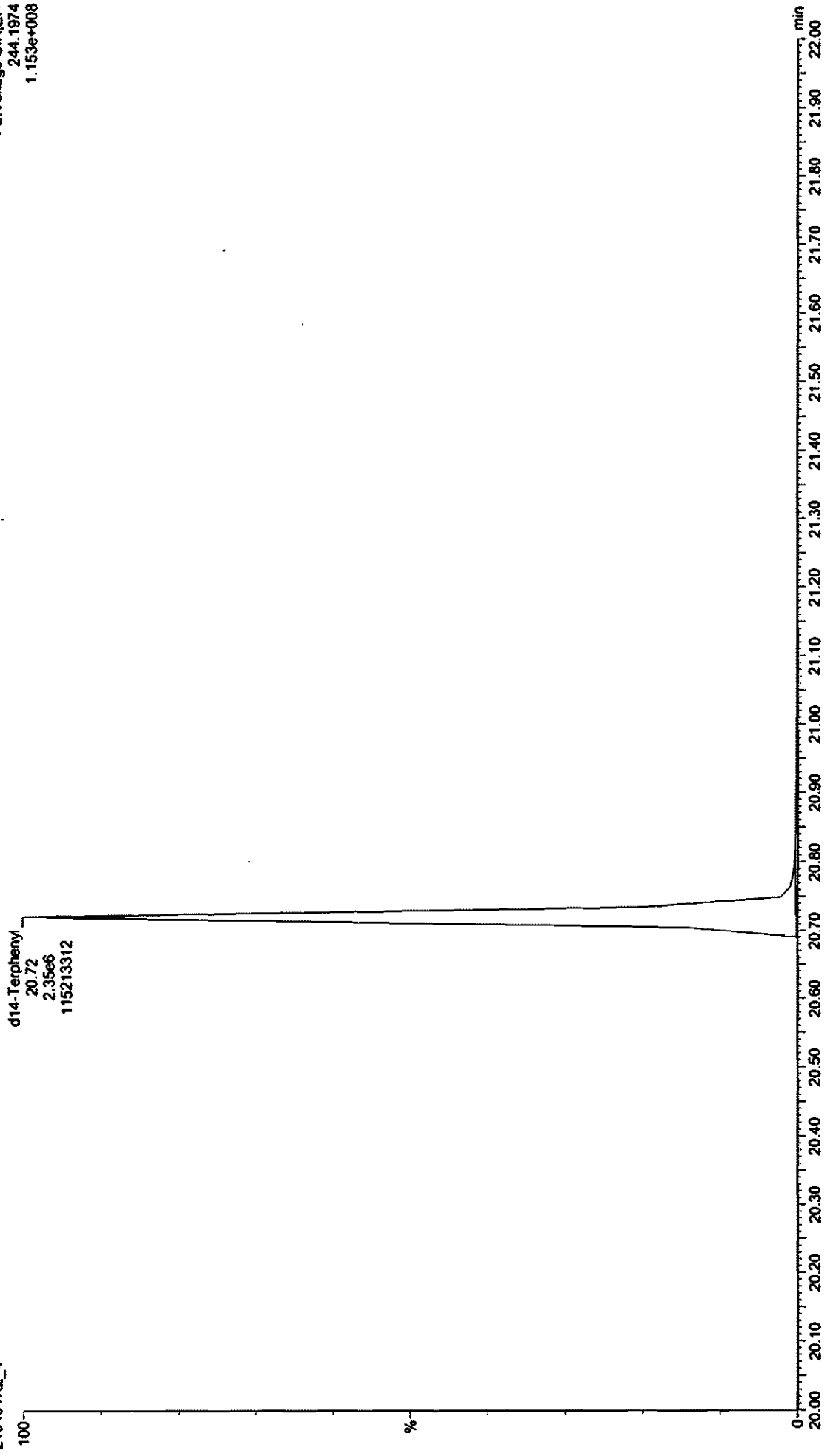
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

d14-Terphenyl (PS)
210401K2_4

F2: Voltage SIR, EI+
244.1974
1.153e+008



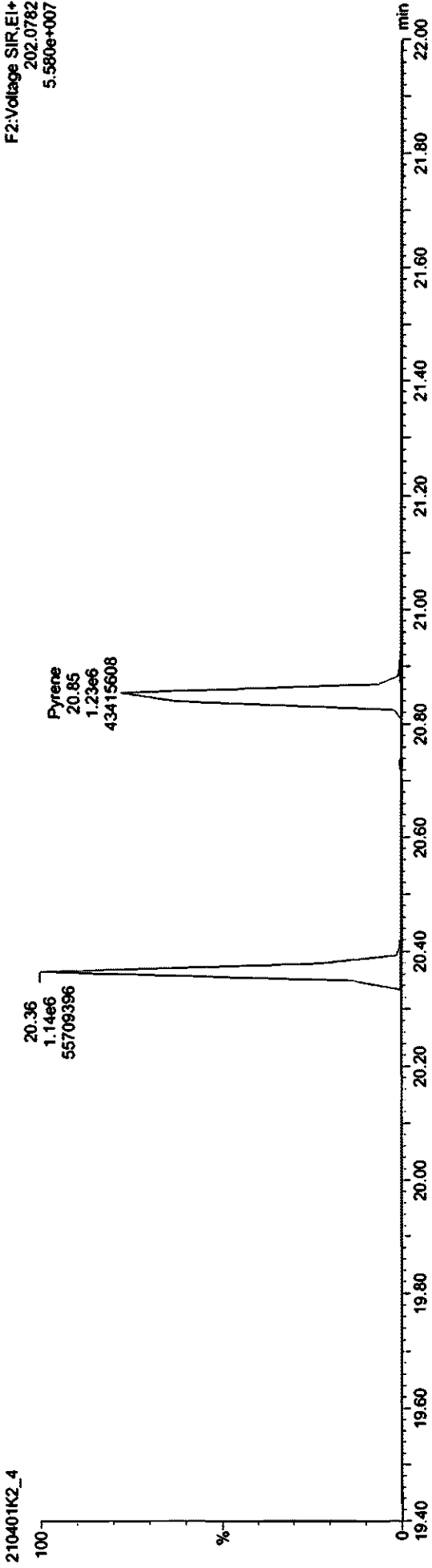
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

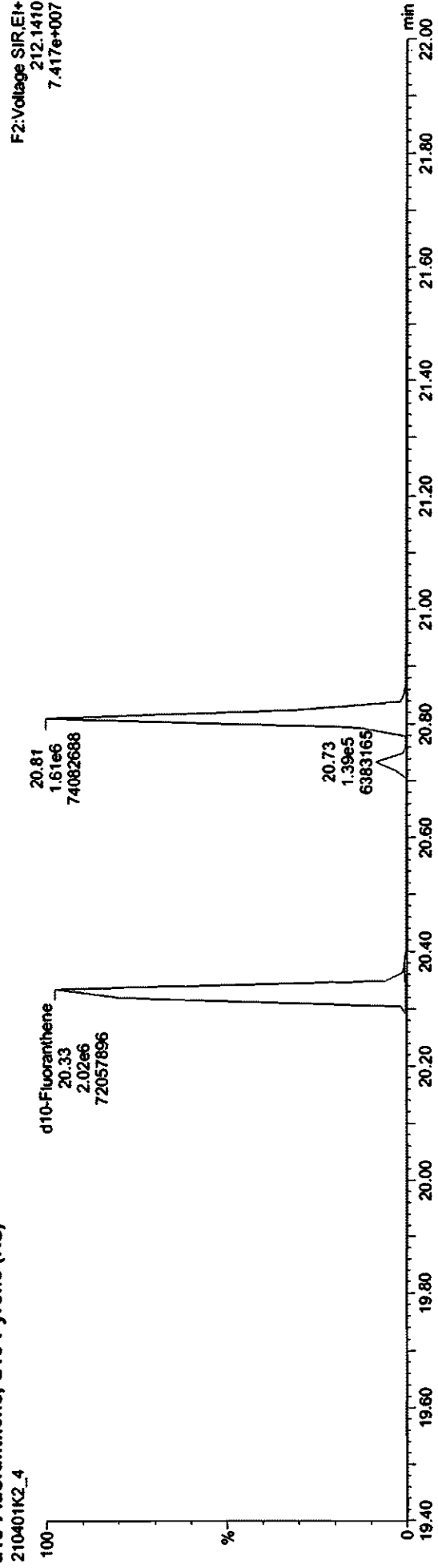
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
5.580e+007



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
7.417e+007



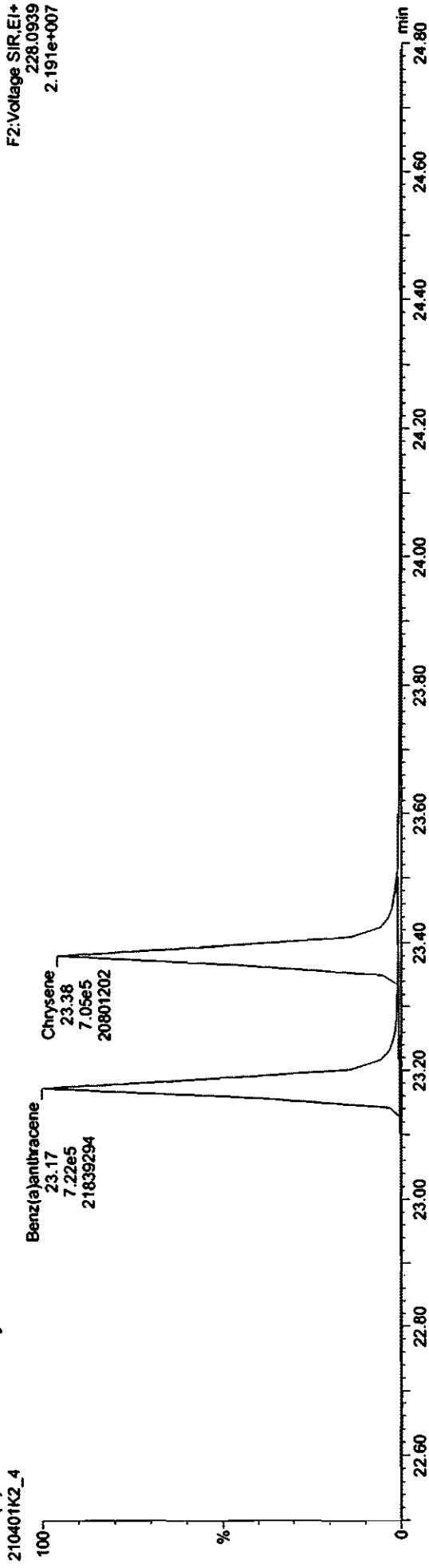
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

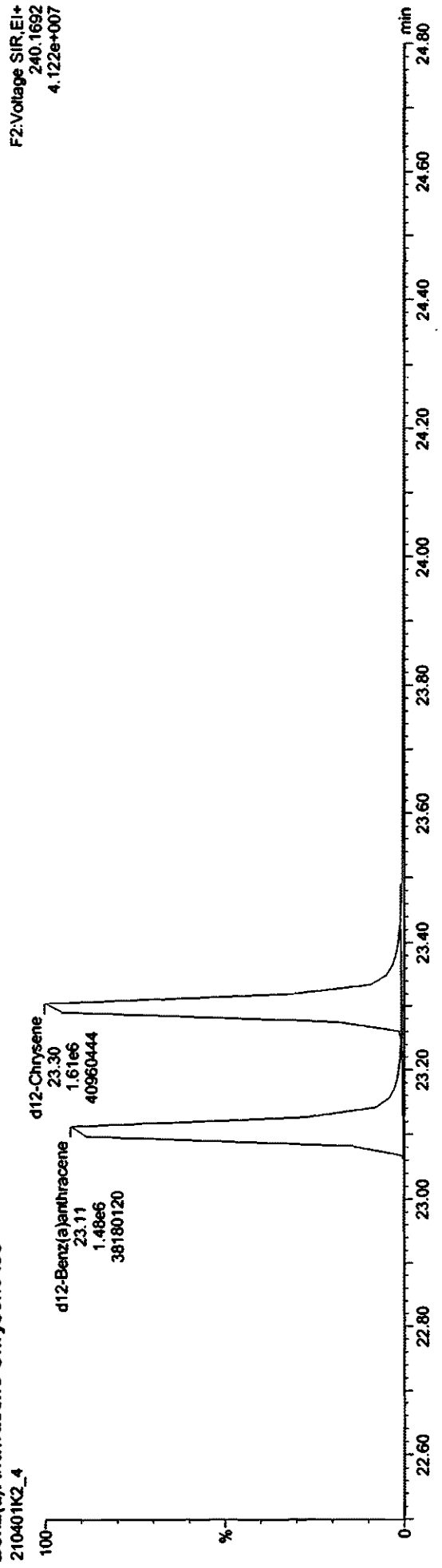
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
2.191e+007



Benz(a)Anthracene-Chrysene-Iso

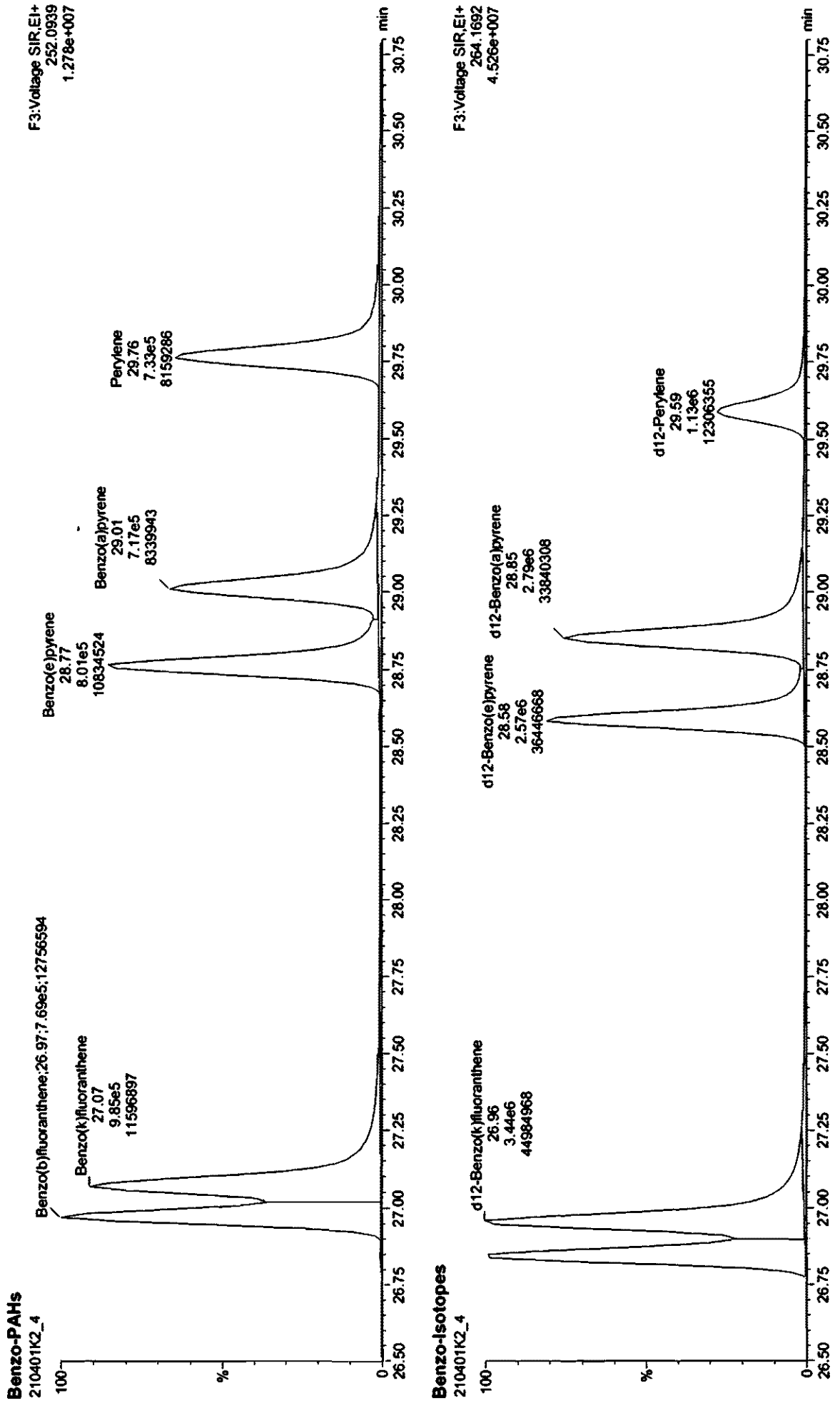
F2:Voltage SIR,EI+
240.1692
4.122e+007



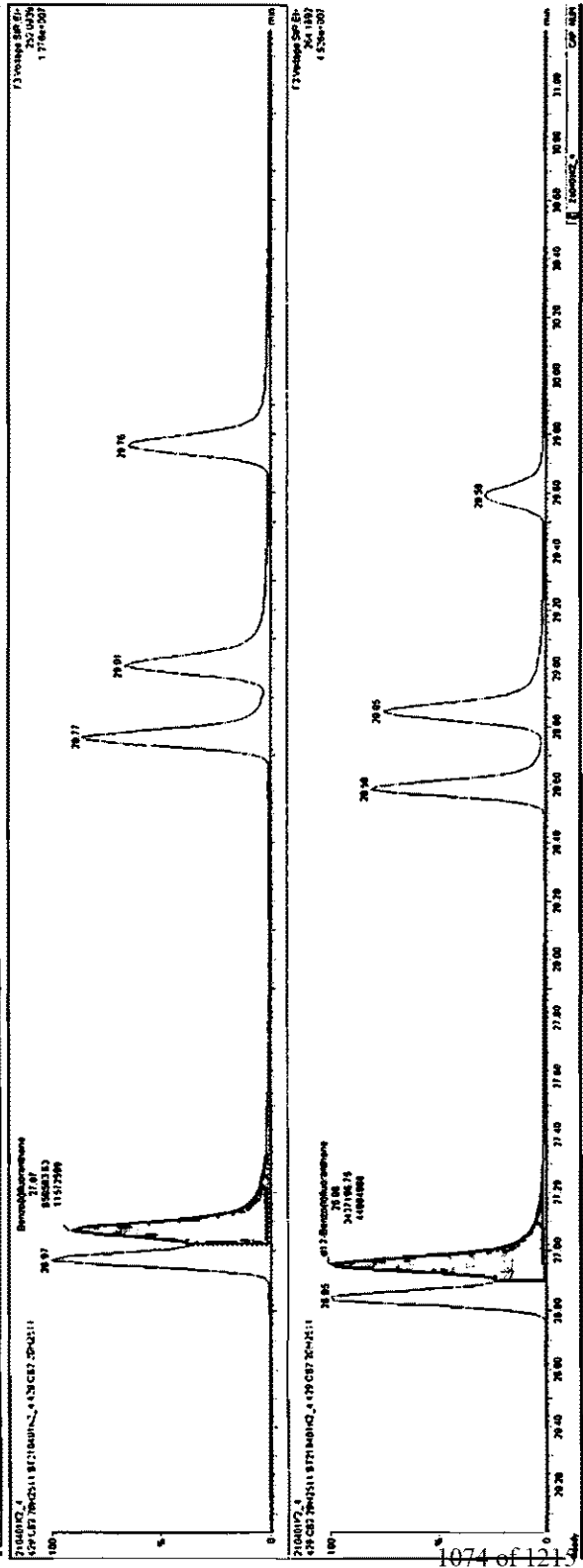
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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

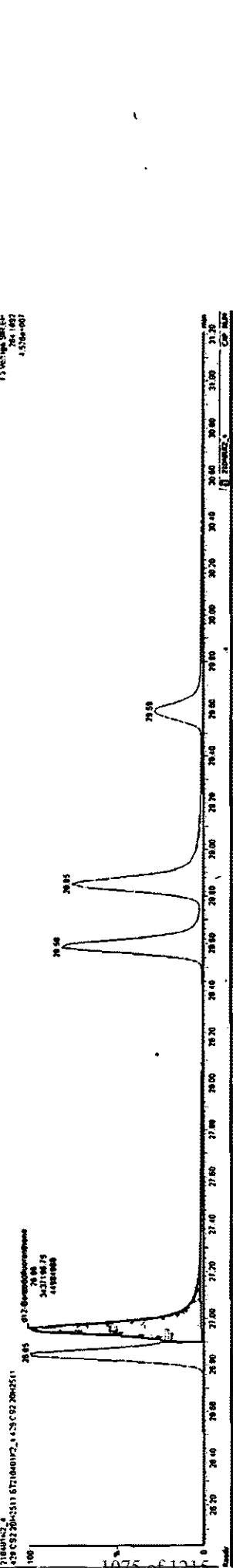
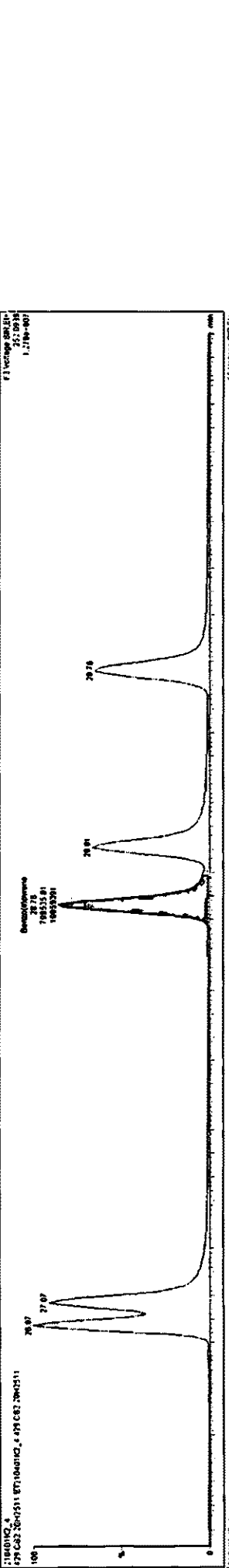
Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511



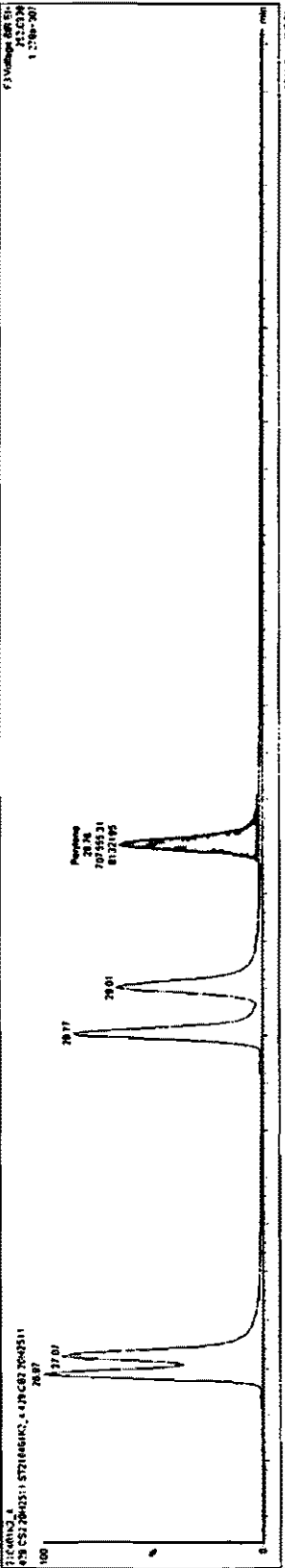
| RT | Area | Height | Width | Area% | Height% |
|--------|---------|--------|-------|-------|---------|
| 28.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 29.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 30.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 31.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 32.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 33.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 34.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 35.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 36.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 37.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 38.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 39.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 40.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 41.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 42.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 43.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 44.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 45.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 46.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 47.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 48.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 49.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 50.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 51.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 52.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 53.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 54.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 55.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 56.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 57.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 58.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 59.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 60.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 61.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 62.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 63.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 64.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 65.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 66.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 67.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 68.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 69.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 70.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 71.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 72.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 73.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 74.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 75.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 76.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 77.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 78.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 79.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 80.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 81.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 82.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 83.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 84.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 85.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 86.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 87.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 88.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 89.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 90.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 91.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 92.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 93.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 94.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 95.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 96.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 97.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 98.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 99.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |
| 100.97 | 1000000 | 100000 | 1.00 | 1.00 | 1.00 |



| RT | Area | Height | Width | Skew | Kurtosis | Baseline | Integration | Integration | Integration |
|-------|--------|--------|--------|------|----------|----------|-------------|-------------|-------------|
| 26.85 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.00 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.15 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.30 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.45 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.60 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.75 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 27.90 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.05 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.20 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.35 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.50 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.65 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.80 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28.95 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29.10 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29.25 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29.40 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29.55 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29.70 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 29.85 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.00 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.15 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.30 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.45 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.60 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.75 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 30.90 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31.05 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31.20 | 100000 | 100000 | 100000 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |



| Peak # | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height |
|--------|----------------------|----------|----------|-------|--------------|-------------|
| 14 | 26.87 | 1.08E+05 | 2.74E+04 | 1.1 | 5.81 | 1.10 |
| 15 | 27.01 | 9.10E+04 | 3.17E+04 | 0.64 | 5.86 | 1.54 |
| 16 | 27.16 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 17 | 27.31 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 18 | 27.46 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 19 | 27.61 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 20 | 27.76 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 21 | 27.91 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 22 | 28.06 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 23 | 28.21 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 24 | 28.36 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 25 | 28.51 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 26 | 28.66 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 27 | 28.81 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 28 | 28.96 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 29 | 29.11 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 30 | 29.26 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 31 | 29.41 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 32 | 29.56 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 33 | 29.71 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 34 | 29.86 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 35 | 30.01 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 36 | 30.16 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 37 | 30.31 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 38 | 30.46 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 39 | 30.61 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 40 | 30.76 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 41 | 30.91 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 42 | 31.06 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 43 | 31.21 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 44 | 31.36 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 45 | 31.51 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 46 | 31.66 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 47 | 31.81 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 48 | 31.96 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 49 | 32.11 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 50 | 32.26 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 51 | 32.41 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 52 | 32.56 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 53 | 32.71 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 54 | 32.86 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 55 | 33.01 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 56 | 33.16 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 57 | 33.31 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 58 | 33.46 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 59 | 33.61 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 60 | 33.76 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 61 | 33.91 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 62 | 34.06 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |



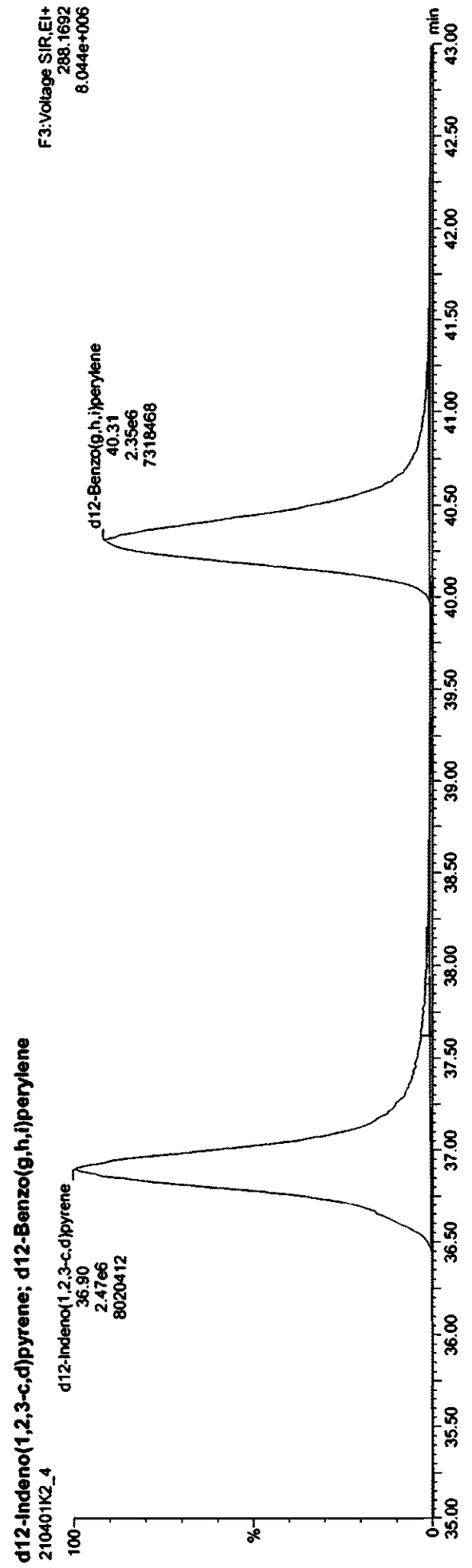
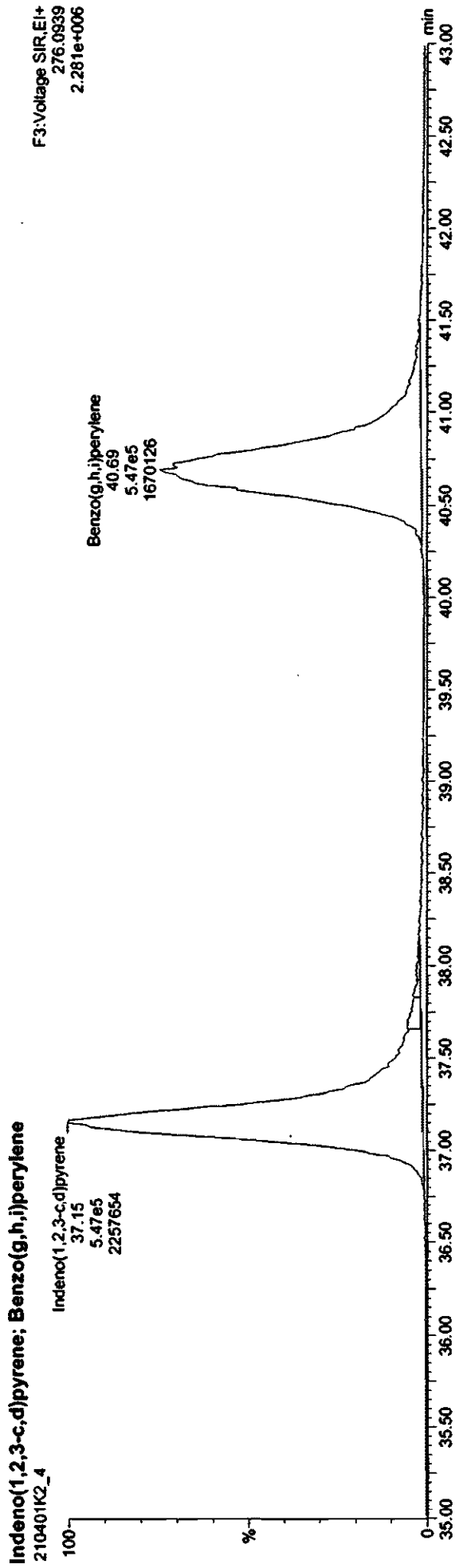
Chromatogram showing peaks and retention times. The x-axis represents time in minutes, ranging from 26.75 to 34.00. The y-axis represents intensity. Several peaks are labeled with their retention times and corresponding chemical names.

| Peak # | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height |
|--------|----------------------|----------|----------|-------|--------------|-------------|
| 14 | 26.87 | 1.08E+05 | 2.74E+04 | 1.1 | 5.81 | 1.10 |
| 15 | 27.01 | 9.10E+04 | 3.17E+04 | 0.64 | 5.86 | 1.54 |
| 16 | 27.16 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 17 | 27.31 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 18 | 27.46 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 19 | 27.61 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 20 | 27.76 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 21 | 27.91 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 22 | 28.06 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 23 | 28.21 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 24 | 28.36 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 25 | 28.51 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 26 | 28.66 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 27 | 28.81 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 28 | 28.96 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 29 | 29.11 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 30 | 29.26 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 31 | 29.41 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 32 | 29.56 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 33 | 29.71 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 34 | 29.86 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 35 | 30.01 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 36 | 30.16 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 37 | 30.31 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 38 | 30.46 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 39 | 30.61 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 40 | 30.76 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 41 | 30.91 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 42 | 31.06 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 43 | 31.21 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 44 | 31.36 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 45 | 31.51 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 46 | 31.66 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 47 | 31.81 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 48 | 31.96 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 49 | 32.11 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 50 | 32.26 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 51 | 32.41 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 52 | 32.56 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 53 | 32.71 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 54 | 32.86 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 55 | 33.01 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 56 | 33.16 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 57 | 33.31 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 58 | 33.46 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 59 | 33.61 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 60 | 33.76 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 61 | 33.91 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |
| 62 | 34.06 | 7.89E+04 | 3.17E+04 | 0.64 | 5.81 | 1.54 |

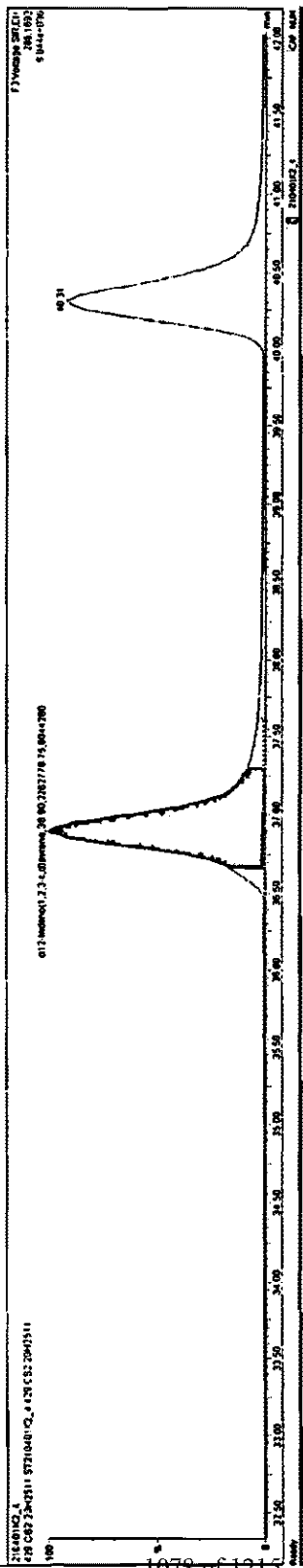
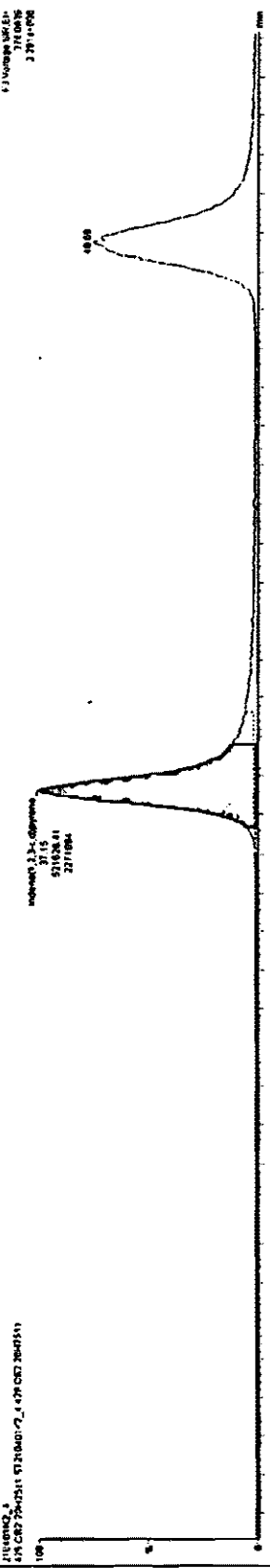
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511



| Peak # | Retention Time (min) | Area | Height | Width | Integration | Area % | Height % | Width % |
|--------|----------------------|---------|--------|-------|-------------|----------|----------|----------|
| 1 | 11.85 | 1000000 | 100000 | 1.00 | 1000000 | 100.00 | 100.00 | 100.00 |
| 2 | 12.15 | 500000 | 50000 | 1.00 | 500000 | 50.00 | 50.00 | 50.00 |
| 3 | 12.31 | 200000 | 20000 | 1.00 | 200000 | 20.00 | 20.00 | 20.00 |
| 4 | 12.45 | 100000 | 10000 | 1.00 | 100000 | 10.00 | 10.00 | 10.00 |
| 5 | 12.60 | 50000 | 5000 | 1.00 | 50000 | 5.00 | 5.00 | 5.00 |
| 6 | 12.75 | 20000 | 2000 | 1.00 | 20000 | 2.00 | 2.00 | 2.00 |
| 7 | 12.90 | 10000 | 1000 | 1.00 | 10000 | 1.00 | 1.00 | 1.00 |
| 8 | 13.05 | 5000 | 500 | 1.00 | 5000 | 0.50 | 0.50 | 0.50 |
| 9 | 13.20 | 2000 | 200 | 1.00 | 2000 | 0.20 | 0.20 | 0.20 |
| 10 | 13.35 | 1000 | 100 | 1.00 | 1000 | 0.10 | 0.10 | 0.10 |
| 11 | 13.50 | 500 | 50 | 1.00 | 500 | 0.05 | 0.05 | 0.05 |
| 12 | 13.65 | 200 | 20 | 1.00 | 200 | 0.02 | 0.02 | 0.02 |
| 13 | 13.80 | 100 | 10 | 1.00 | 100 | 0.01 | 0.01 | 0.01 |
| 14 | 13.95 | 50 | 5 | 1.00 | 50 | 0.005 | 0.005 | 0.005 |
| 15 | 14.10 | 20 | 2 | 1.00 | 20 | 0.002 | 0.002 | 0.002 |
| 16 | 14.25 | 10 | 1 | 1.00 | 10 | 0.001 | 0.001 | 0.001 |
| 17 | 14.40 | 5 | 0.5 | 1.00 | 5 | 0.0005 | 0.0005 | 0.0005 |
| 18 | 14.55 | 2 | 0.2 | 1.00 | 2 | 0.0002 | 0.0002 | 0.0002 |
| 19 | 14.70 | 1 | 0.1 | 1.00 | 1 | 0.0001 | 0.0001 | 0.0001 |
| 20 | 14.85 | 0.5 | 0.05 | 1.00 | 0.5 | 0.00005 | 0.00005 | 0.00005 |
| 21 | 15.00 | 0.2 | 0.02 | 1.00 | 0.2 | 0.00002 | 0.00002 | 0.00002 |
| 22 | 15.15 | 0.1 | 0.01 | 1.00 | 0.1 | 0.00001 | 0.00001 | 0.00001 |
| 23 | 15.30 | 0.05 | 0.005 | 1.00 | 0.05 | 0.000005 | 0.000005 | 0.000005 |
| 24 | 15.45 | 0.02 | 0.002 | 1.00 | 0.02 | 0.000002 | 0.000002 | 0.000002 |
| 25 | 15.60 | 0.01 | 0.001 | 1.00 | 0.01 | 0.000001 | 0.000001 | 0.000001 |



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Vista Analytical Laboratory

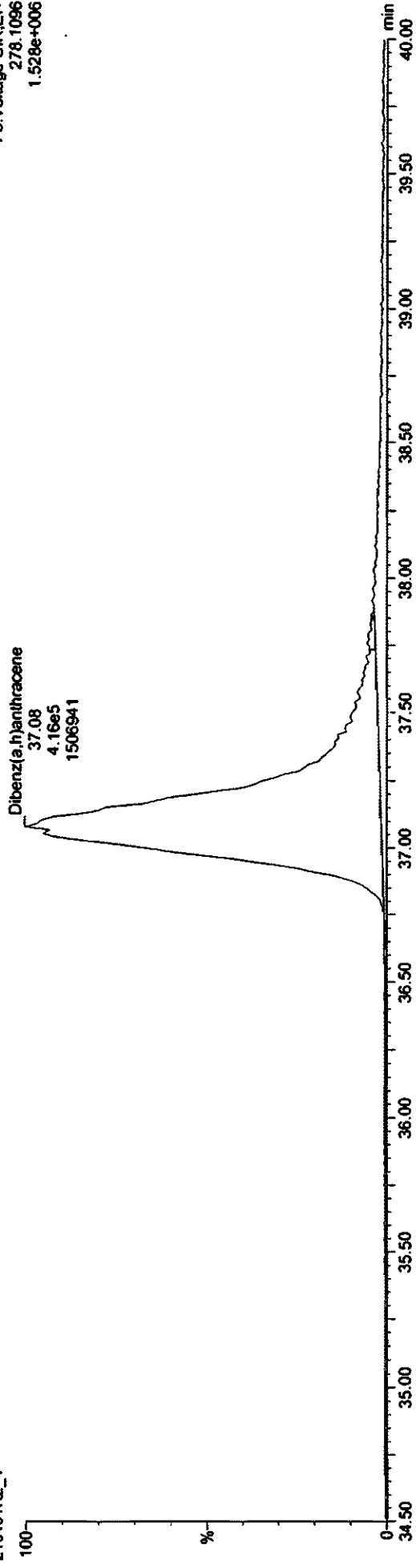
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_4, Date: 01-Apr-2021, Time: 11:55:05, ID: ST210401K2_4 429 CS2 20H2511, Description: 429 CS2 20H2511

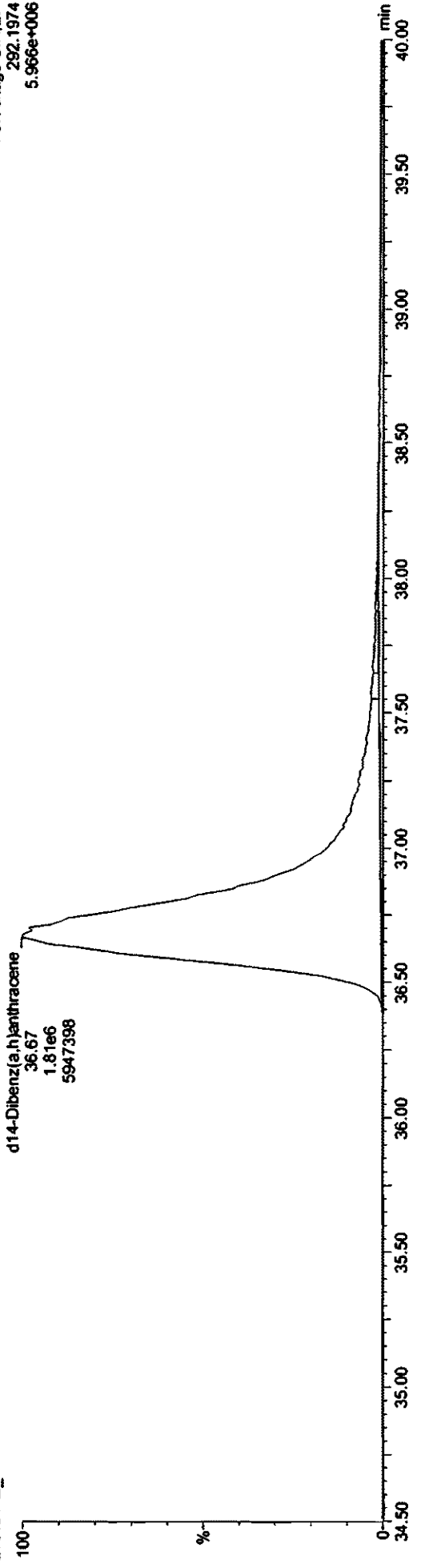
Dibenz(a,h)anthracene
210401K2_4

F3:Voltage SIR,EI+
278.1096
1.528e+006

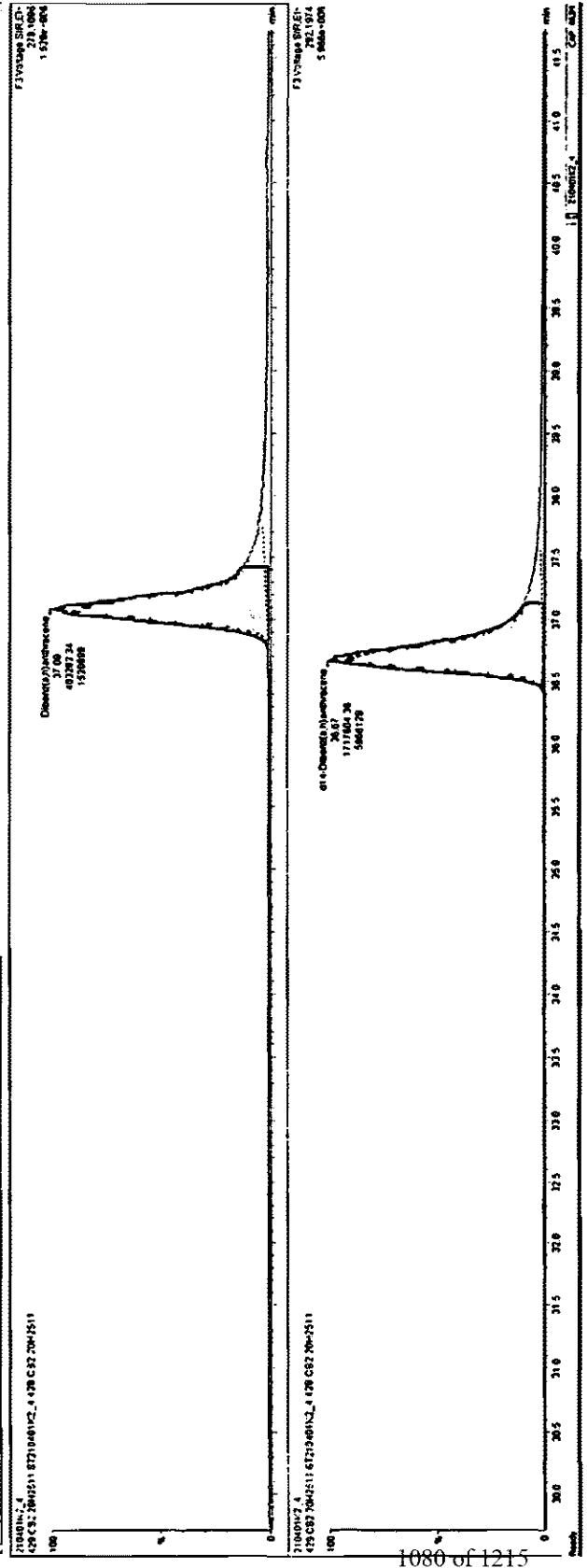


d14-Dibenz(a,h)anthracene
210401K2_4

F3:Voltage SIR,EI+
292.1974
5.966e+006



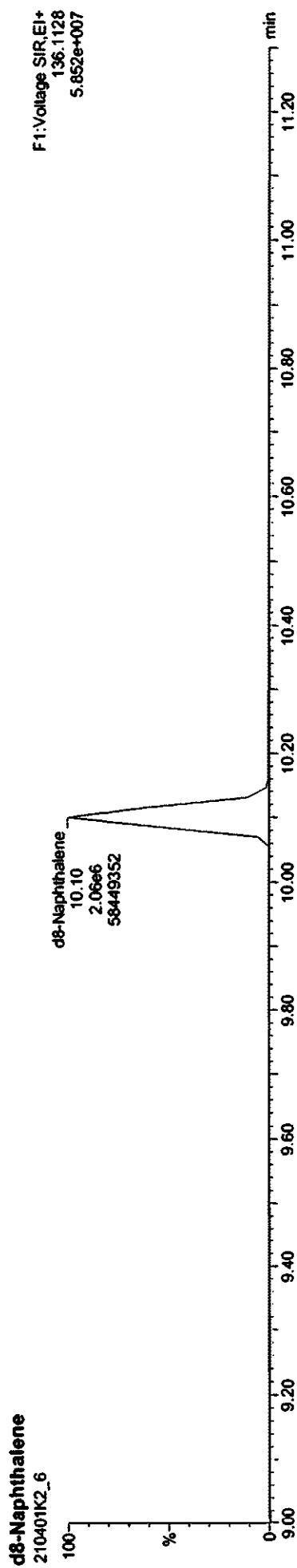
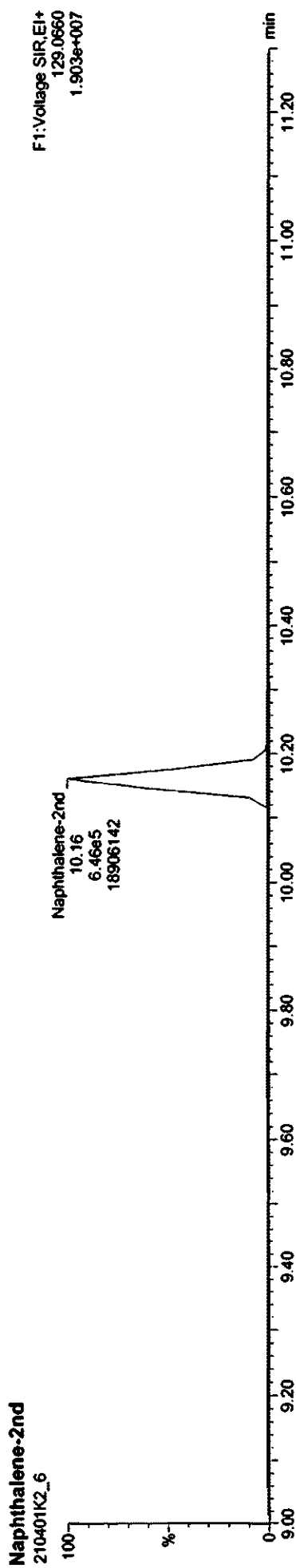
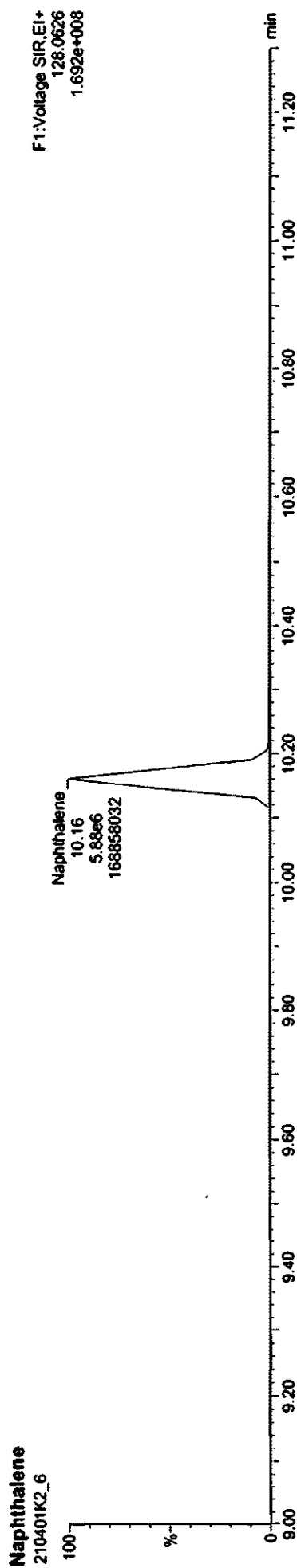
| RT | Area | Height | Width | Area% | Height% | Width% |
|----|------|--------|-------|-------|---------|--------|
| 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 25 | 25 | 25 | 25 | 25 | 25 | 25 |



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512



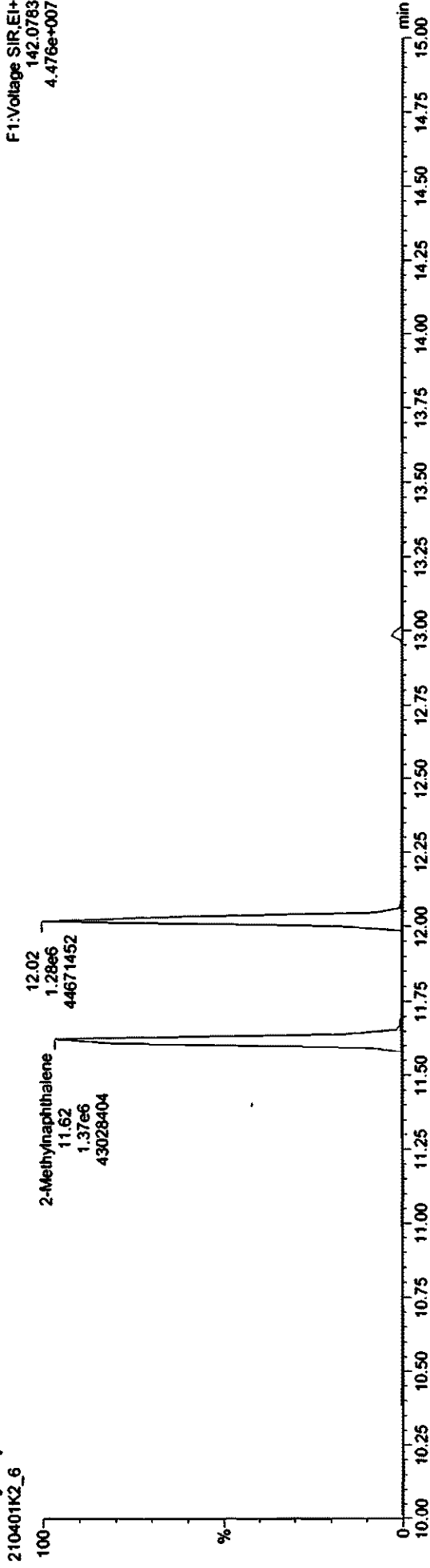
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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512

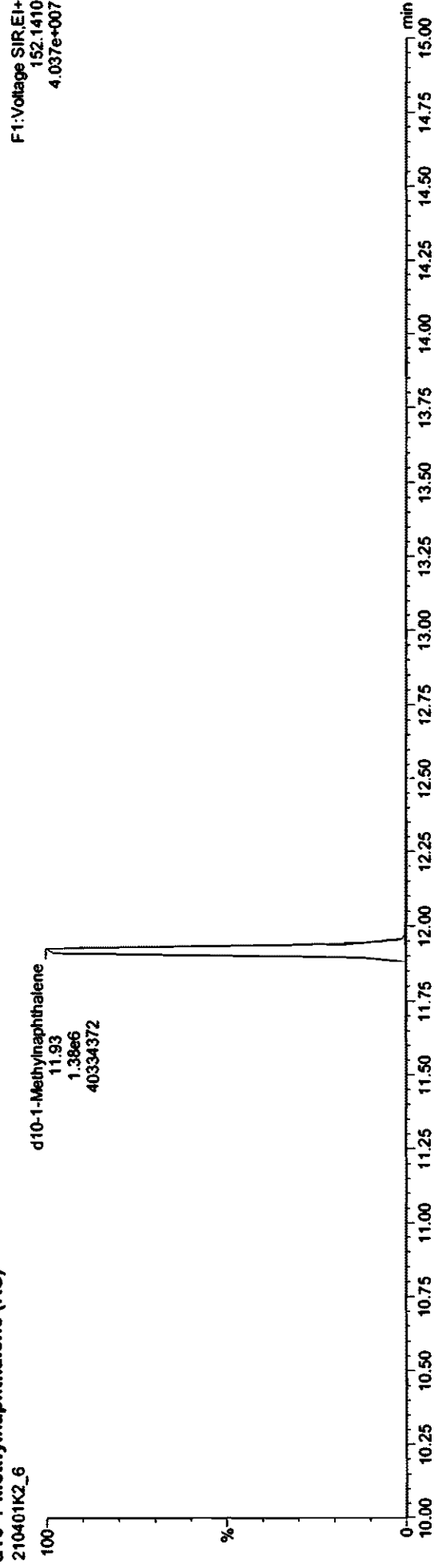
2-Methylnaphthalene

F1:Voltage SIR.EI+
142.0783
4.476e+007



d10-1-Methylnaphthalene (RS)

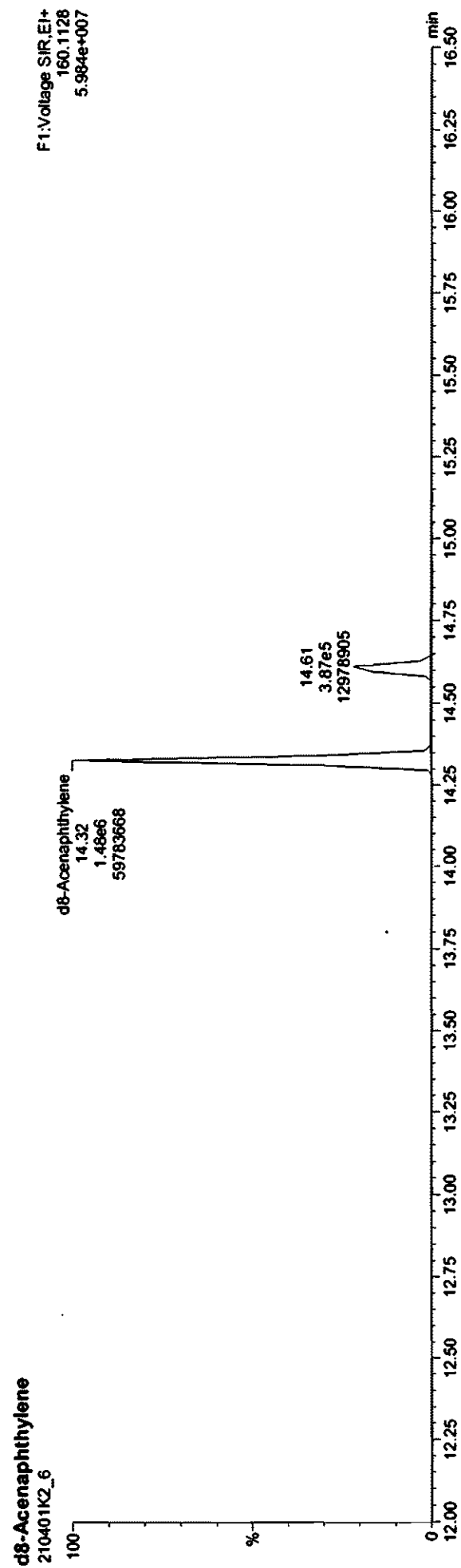
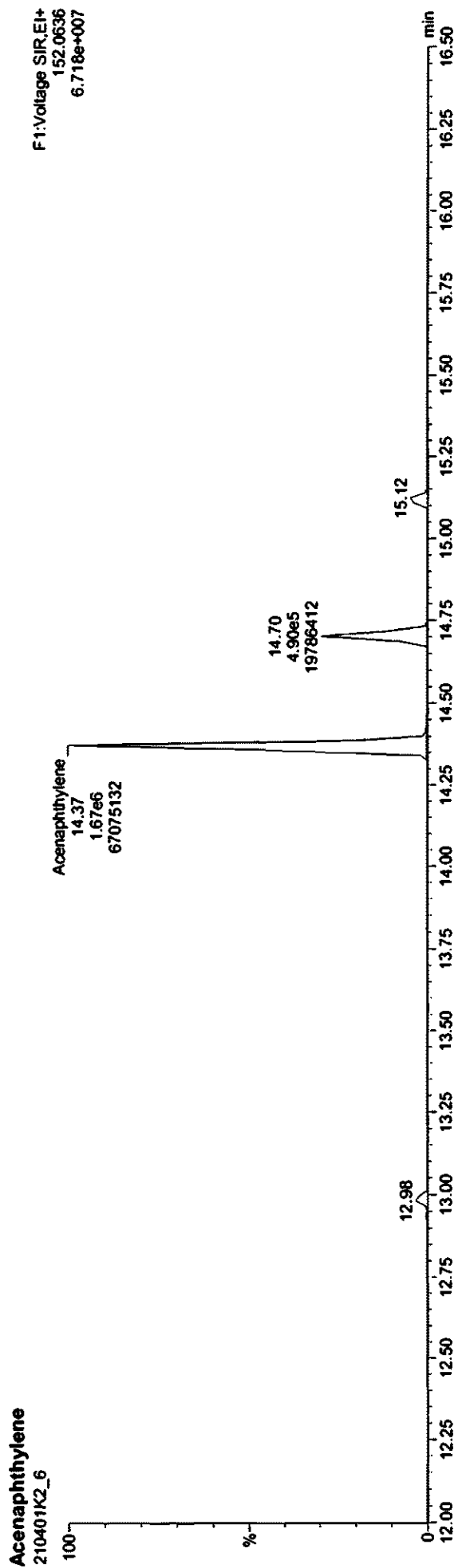
F1:Voltage SIR.EI+
152.1410
4.037e+007



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

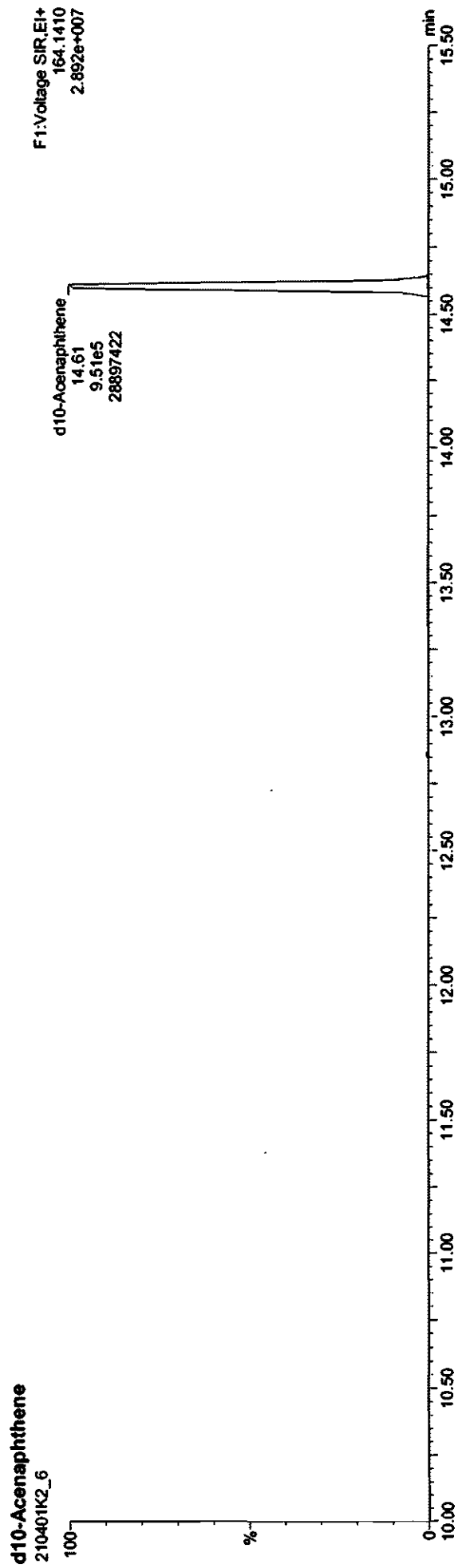
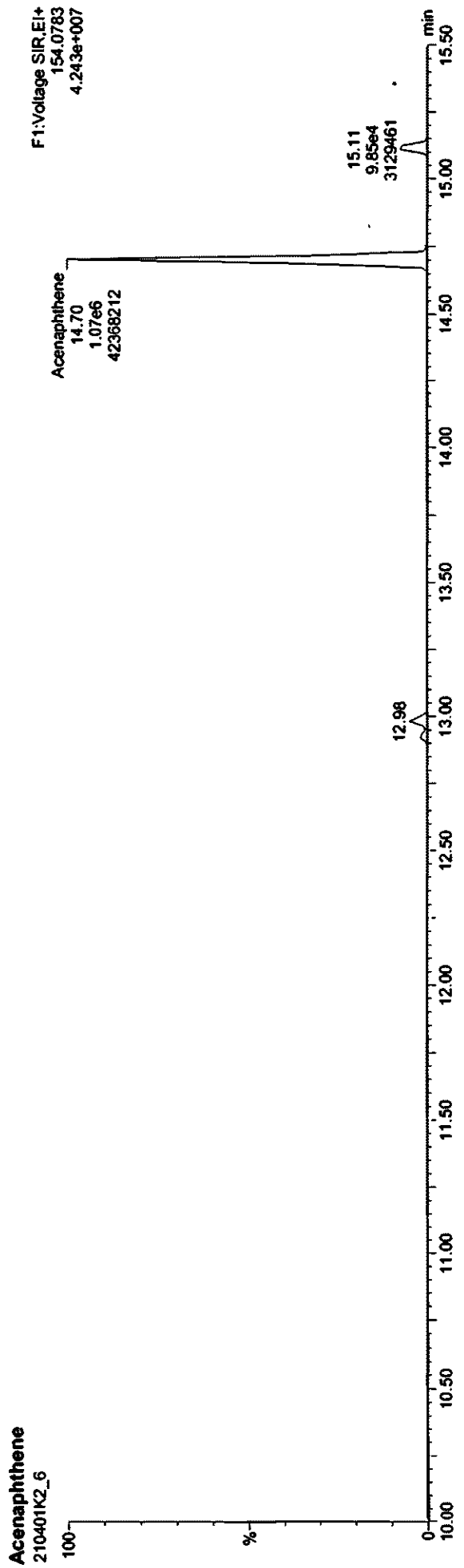
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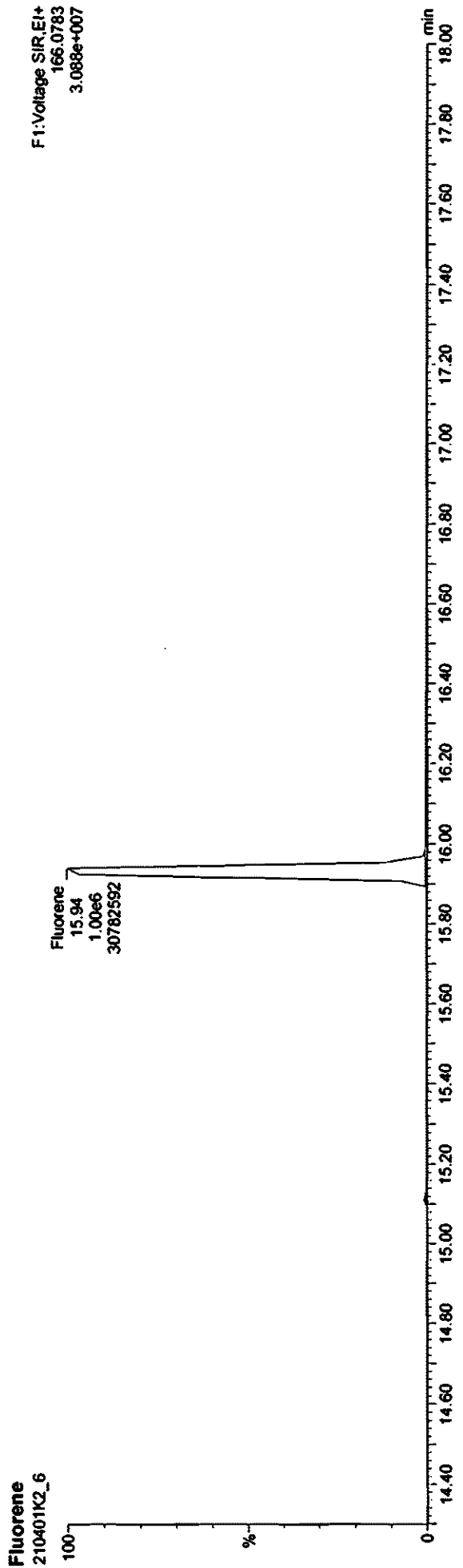


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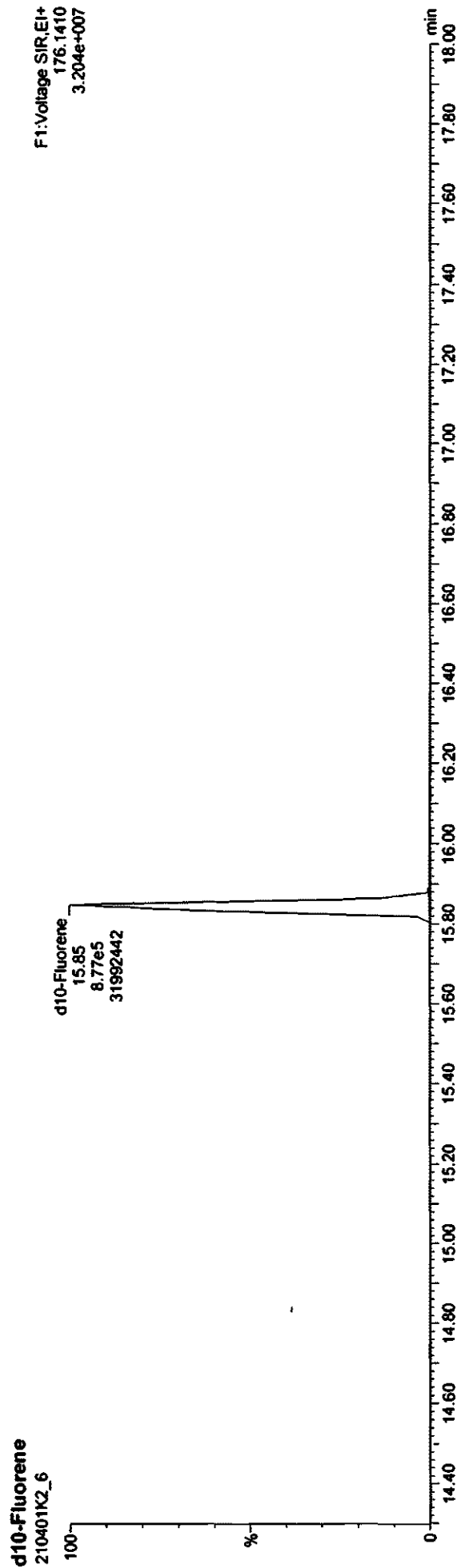
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512



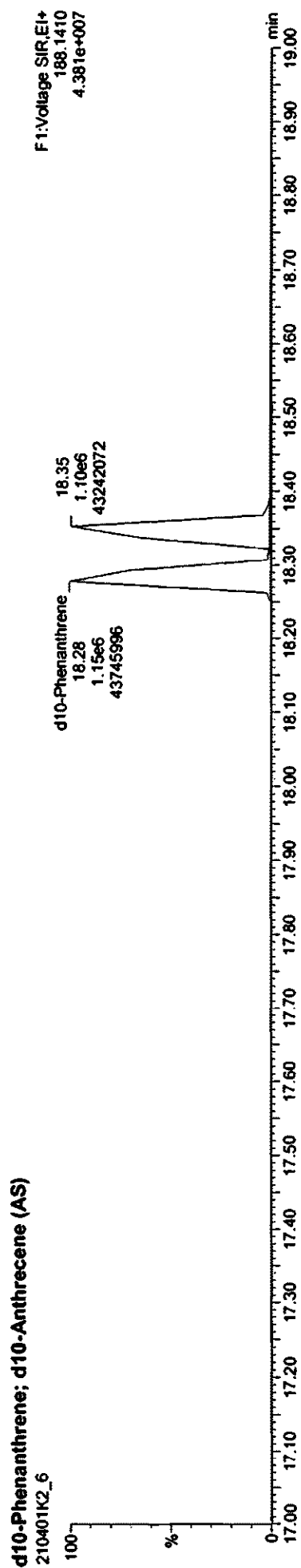
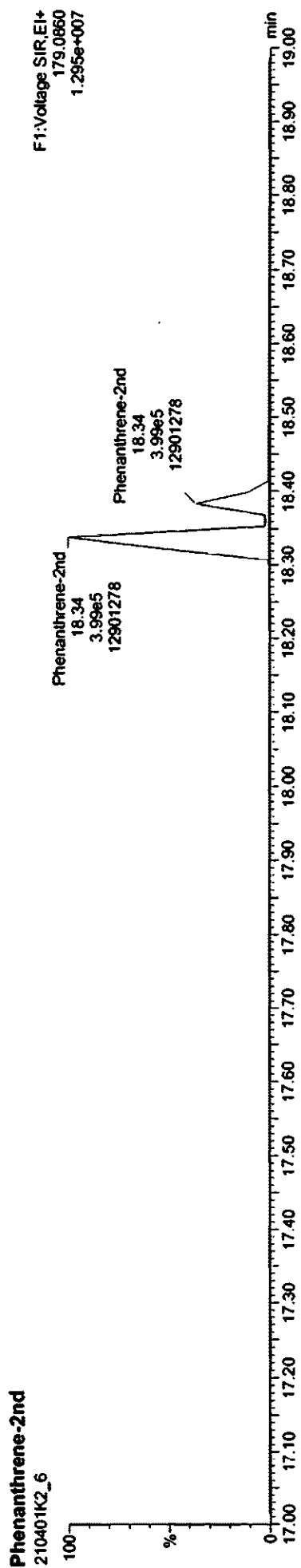
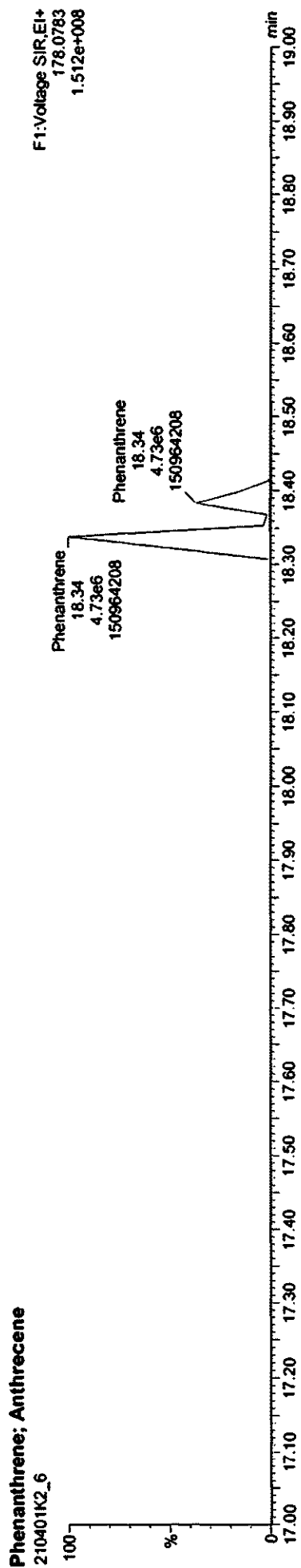
1085 of 1215



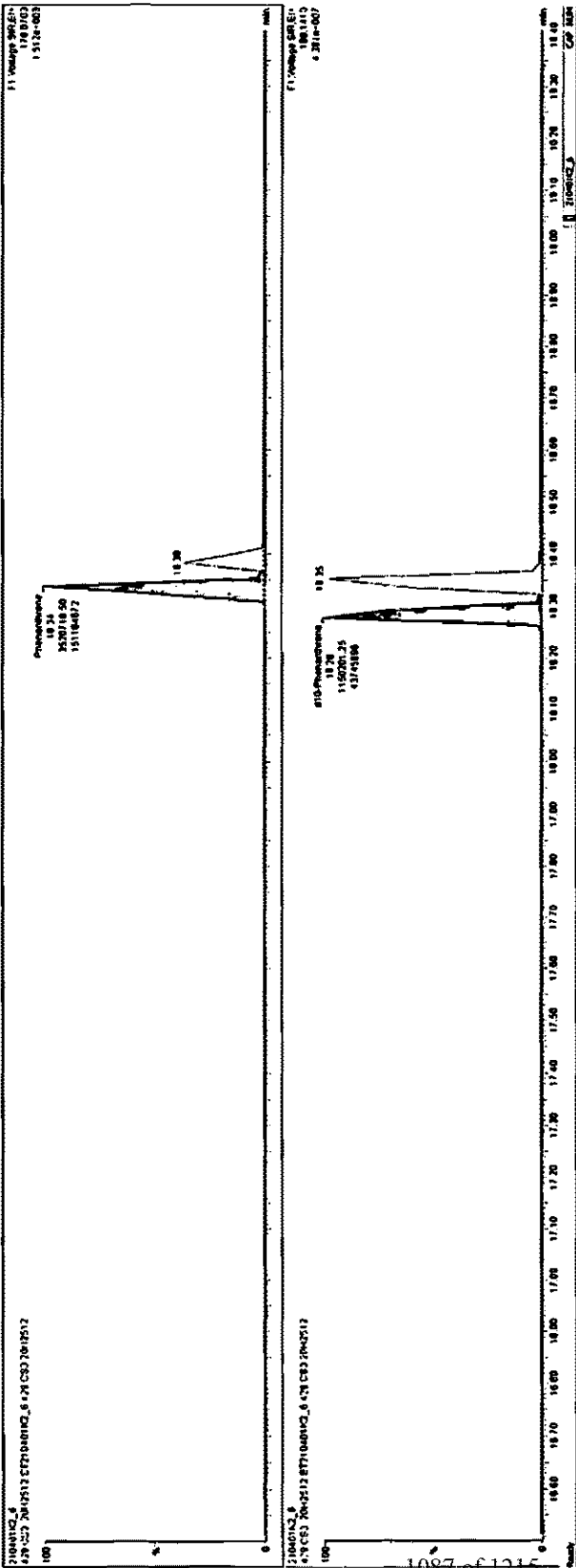
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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

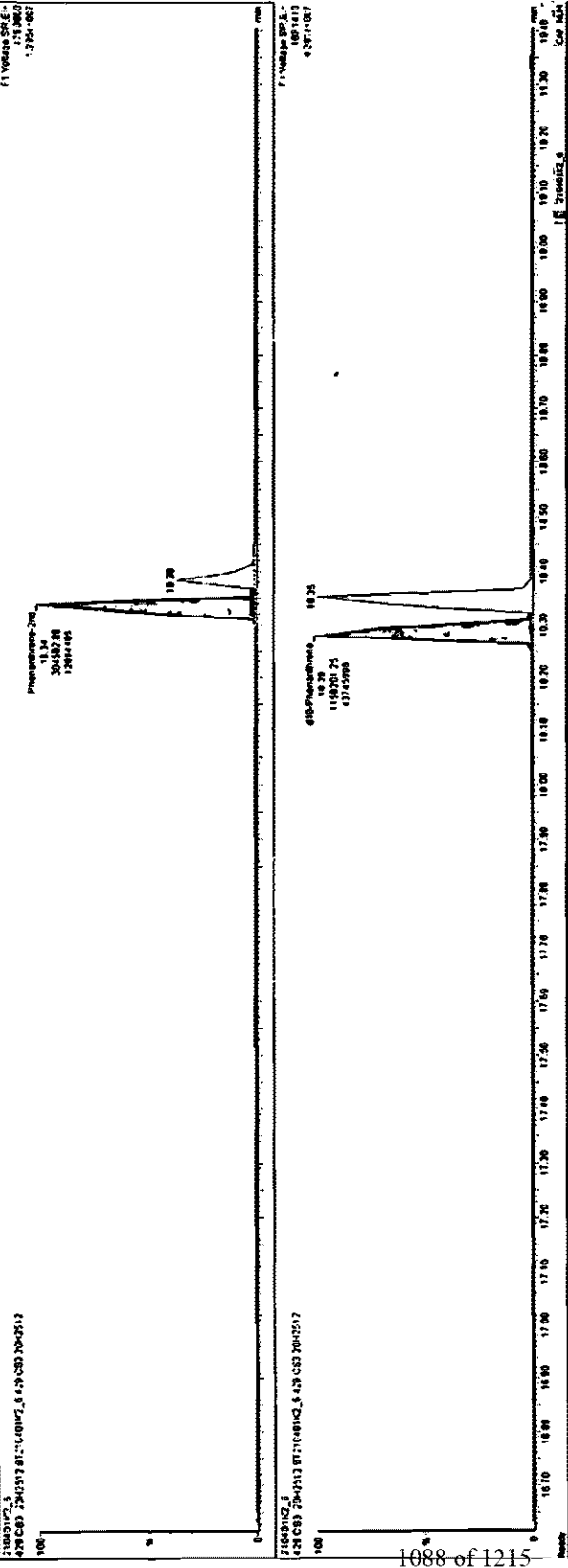
Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512



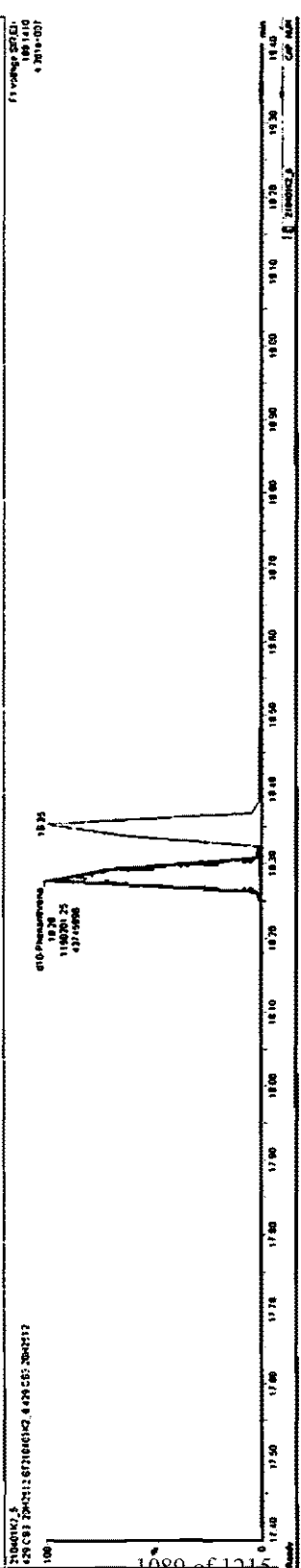
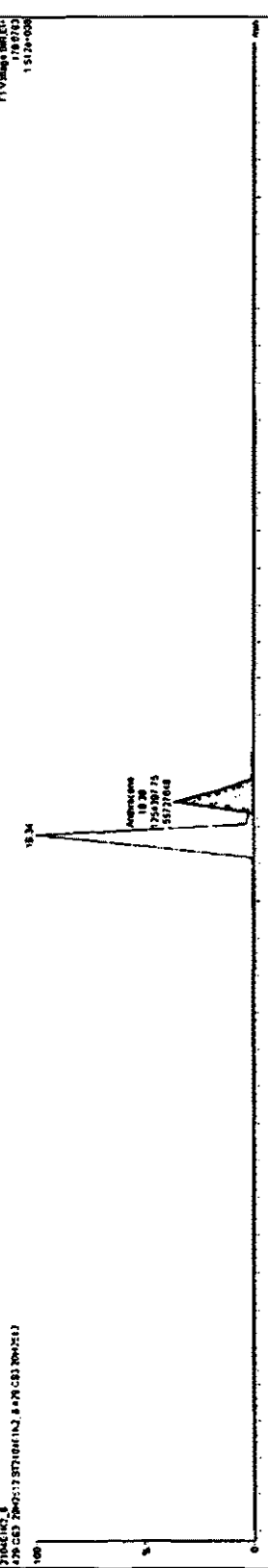
| Peak # | Retention Time (min) | Area | Height | Width | Integration | Signal | Baseline | Offset | Gain | Filter | Resolution | Scan |
|--------|----------------------|--------|--------|-------|-------------|--------|----------|--------|------|--------|------------|-------|
| 1 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 2 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 3 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 4 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 5 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 6 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 7 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 8 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 9 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 10 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 11 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |
| 12 | 18.14 | 100000 | 10000 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 18.14 |



| Peak # | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Height/Width | Area/Height |
|--------|----------------------|---------|--------|-------|--------------|-------------|--------------|-------------|
| 1 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 2 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 3 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 4 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 5 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 6 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 7 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 8 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 9 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 10 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 11 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 12 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 13 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 14 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 15 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 16 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |
| 17 | 10.20 | 1000000 | 100000 | 1.00 | 100000 | 100000 | 100000 | 100000 |



| Retention Time (min) | Height | Area | % Area | Height | Area | % Area | Height | Area | % Area |
|----------------------|--------|-------|---------|--------|-------|---------|--------|-------|---------|
| 10.35 | 1000 | 1000 | 100.00 | 10.35 | 1000 | 100.00 | 10.35 | 1000 | 100.00 |
| 11.25 | 2000 | 2000 | 200.00 | 11.25 | 2000 | 200.00 | 11.25 | 2000 | 200.00 |
| 12.50 | 3000 | 3000 | 300.00 | 12.50 | 3000 | 300.00 | 12.50 | 3000 | 300.00 |
| 14.00 | 5000 | 5000 | 500.00 | 14.00 | 5000 | 500.00 | 14.00 | 5000 | 500.00 |
| 15.50 | 8000 | 8000 | 800.00 | 15.50 | 8000 | 800.00 | 15.50 | 8000 | 800.00 |
| 17.00 | 12000 | 12000 | 1200.00 | 17.00 | 12000 | 1200.00 | 17.00 | 12000 | 1200.00 |
| 18.50 | 15000 | 15000 | 1500.00 | 18.50 | 15000 | 1500.00 | 18.50 | 15000 | 1500.00 |
| 20.00 | 20000 | 20000 | 2000.00 | 20.00 | 20000 | 2000.00 | 20.00 | 20000 | 2000.00 |
| 21.50 | 25000 | 25000 | 2500.00 | 21.50 | 25000 | 2500.00 | 21.50 | 25000 | 2500.00 |
| 23.00 | 30000 | 30000 | 3000.00 | 23.00 | 30000 | 3000.00 | 23.00 | 30000 | 3000.00 |
| 24.50 | 35000 | 35000 | 3500.00 | 24.50 | 35000 | 3500.00 | 24.50 | 35000 | 3500.00 |
| 26.00 | 40000 | 40000 | 4000.00 | 26.00 | 40000 | 4000.00 | 26.00 | 40000 | 4000.00 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

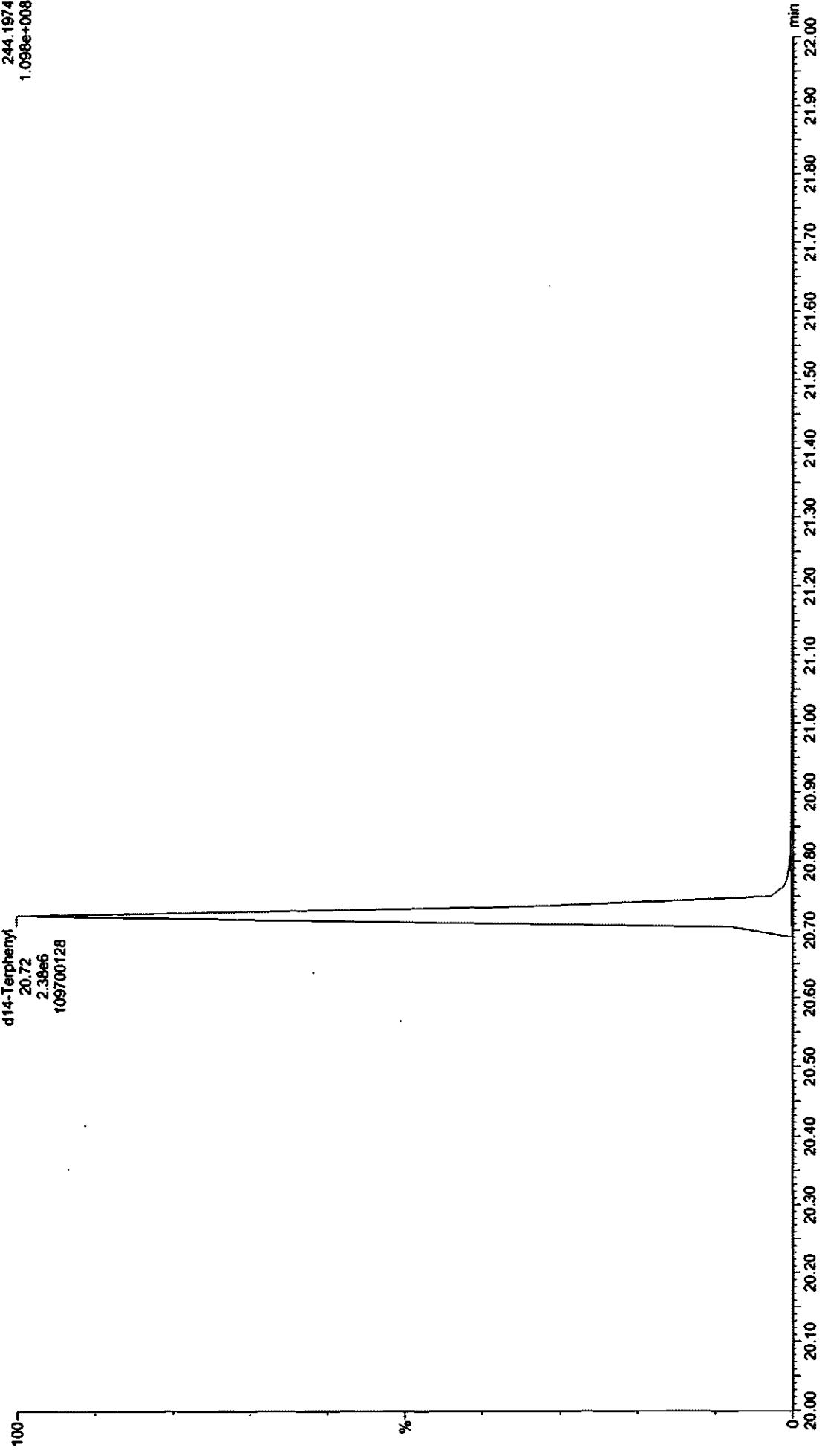
Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512

d14-Terphenyl (PS)

210401K2_6

d14-Terphenyl
20.72
2.38e6
109700128

F2:Voltage SIR EI+
244.1974
1.098e+008



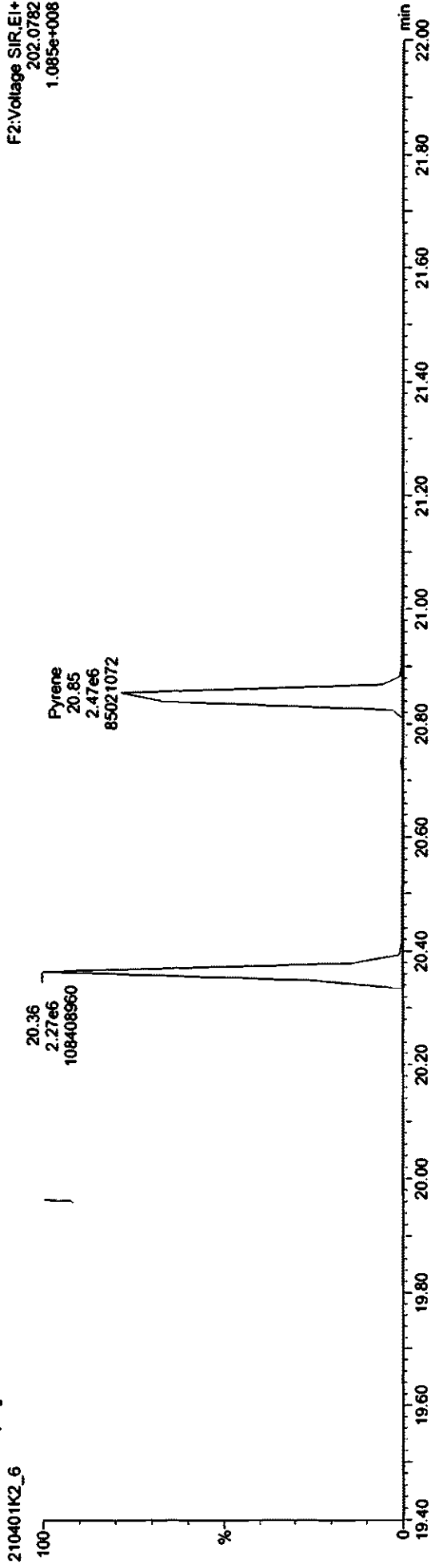
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6_429 CS3 20H2512, Description: 429 CS3 20H2512

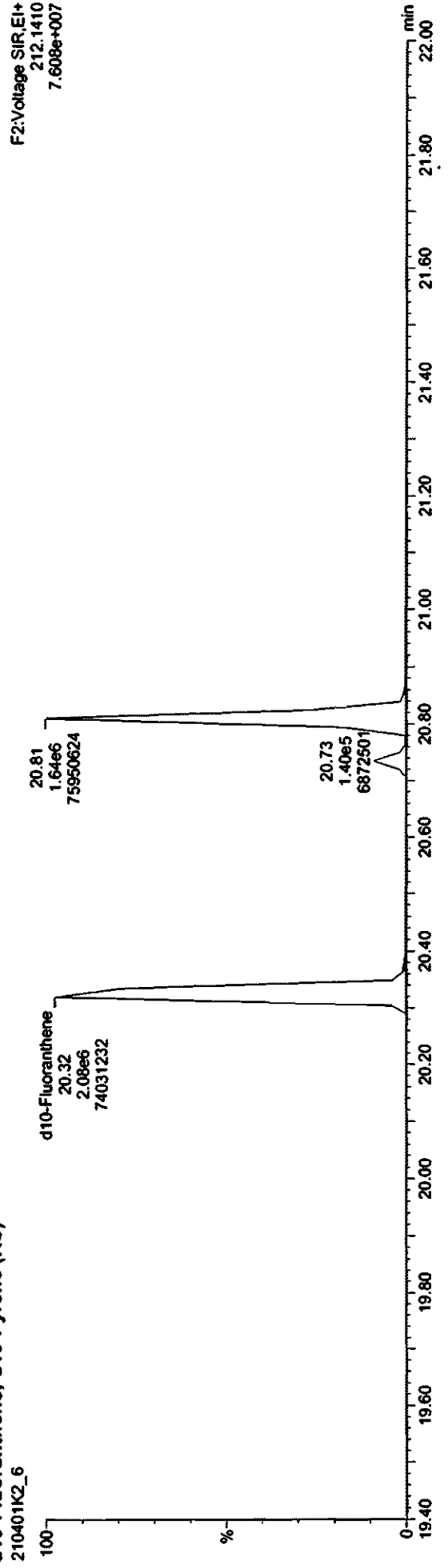
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
1.085e+008



d10-Fluoranthene; d10-Pyrene (RS)

F2:Voltage SIR,EI+
212.1410
7.608e+007



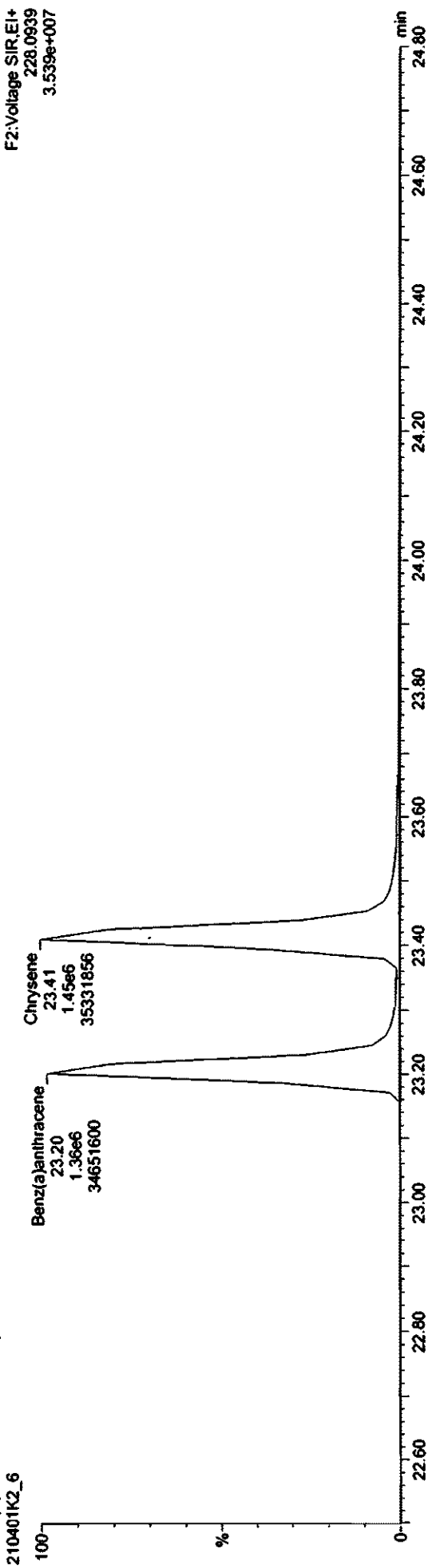
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512

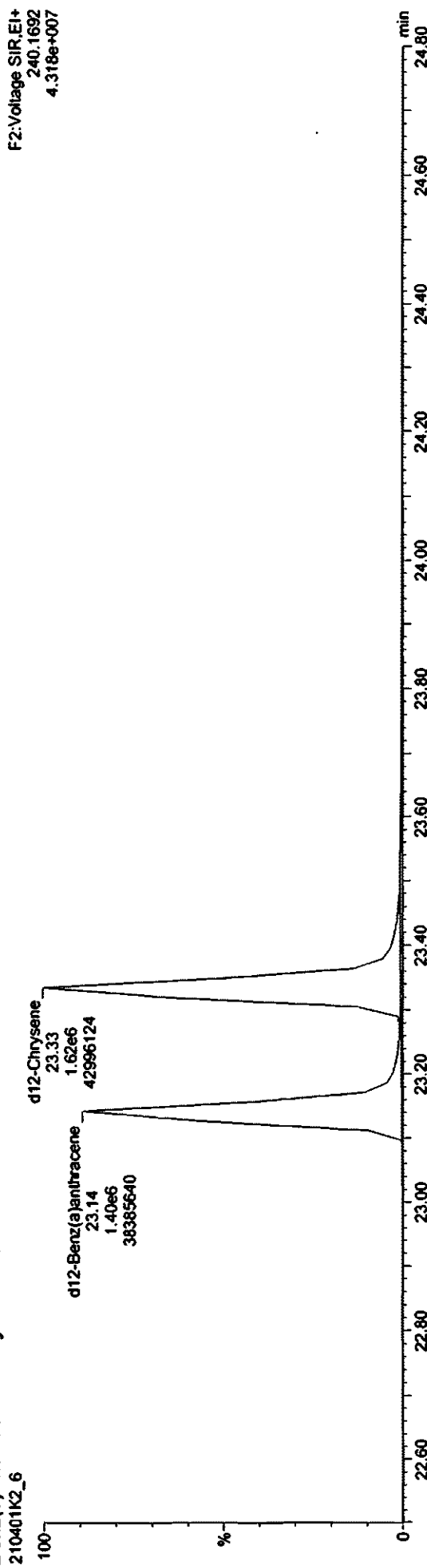
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
3.539e+007

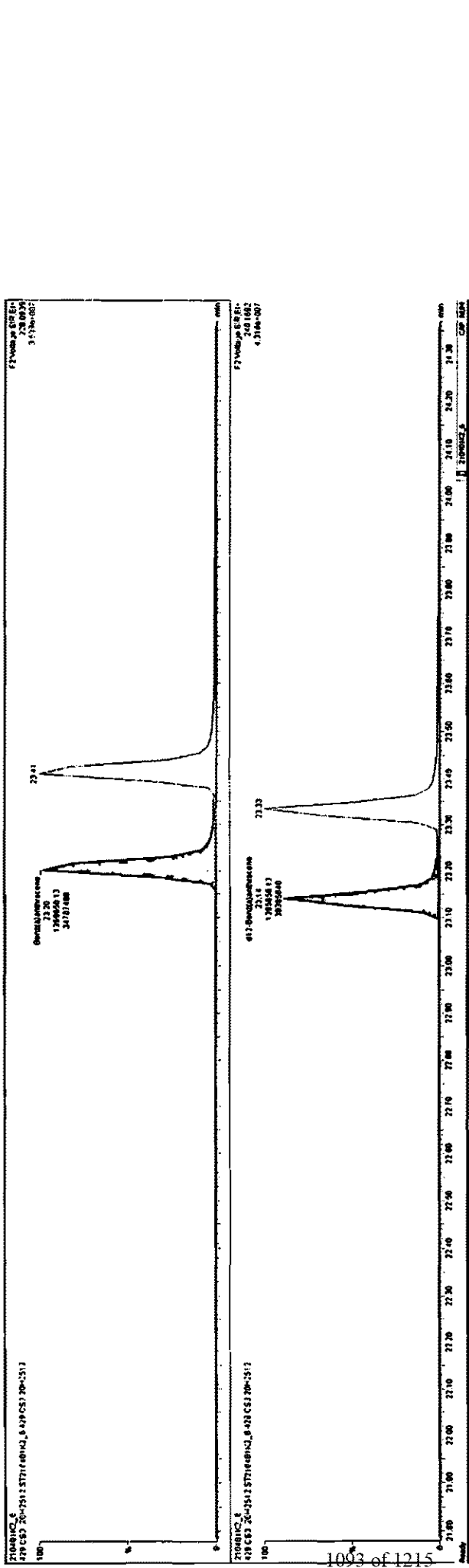


Benz(a)Anthracene-Chrysene-Iso

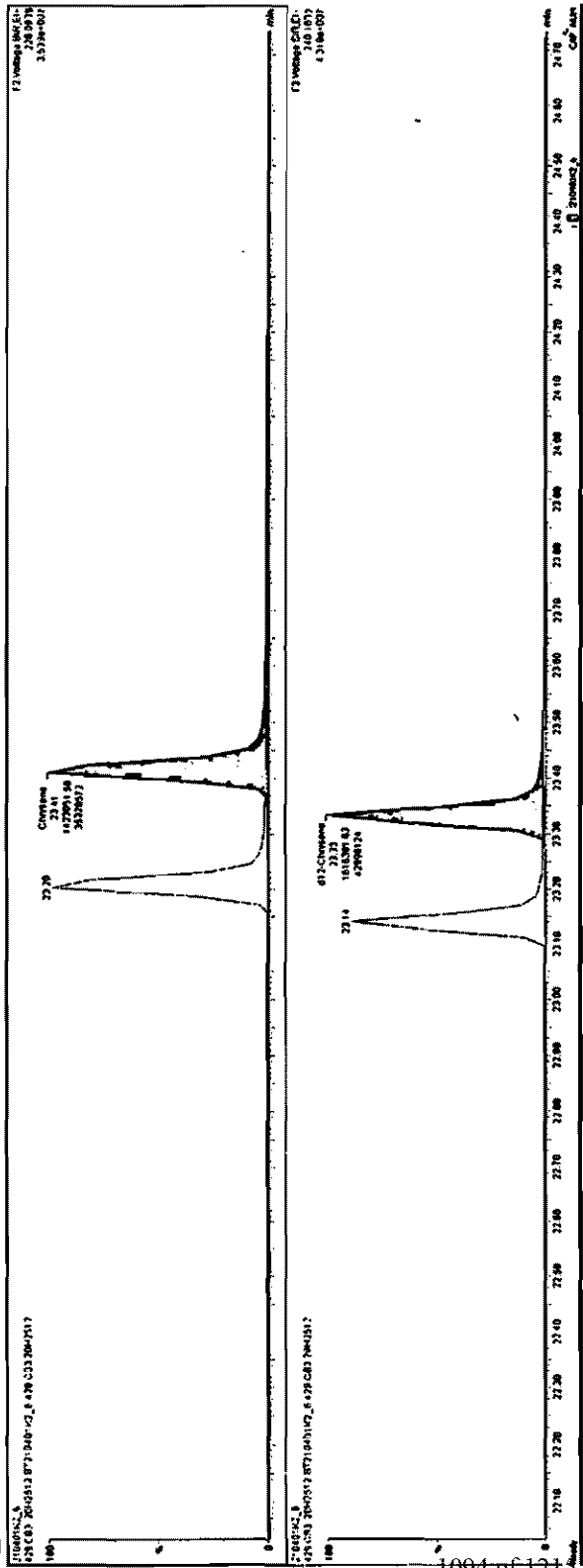
F2:Voltage SIR,EI+
240.1692
4.318e+007



| Peak # | Retention Time (min) | Area | Height | Width | Resolution | S/N | Integration |
|--------|----------------------|-----------|----------|-------|------------|------|-------------|
| 1 | 21.20 | 13695613 | 24787488 | 1.15 | 1.15 | 1.15 | 0.0000 |
| 2 | 21.33 | 126155813 | 18765840 | 1.15 | 1.15 | 1.15 | 0.0000 |
| 3 | 23.81 | 13695613 | 24787488 | 1.15 | 1.15 | 1.15 | 0.0000 |



| Peak # | Retention Time (min) | Area | Height | Width | Height/Width | Area/Height | Height/Width | Area/Height |
|--------|----------------------|-------|--------|-------|--------------|-------------|--------------|-------------|
| 1 | 10.16 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 2 | 10.16 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 3 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 4 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 5 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 6 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 7 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 8 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 9 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 10 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 11 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |
| 12 | 11.83 | 18700 | 1000 | 1.00 | 1000 | 18700 | 1000 | 18700 |

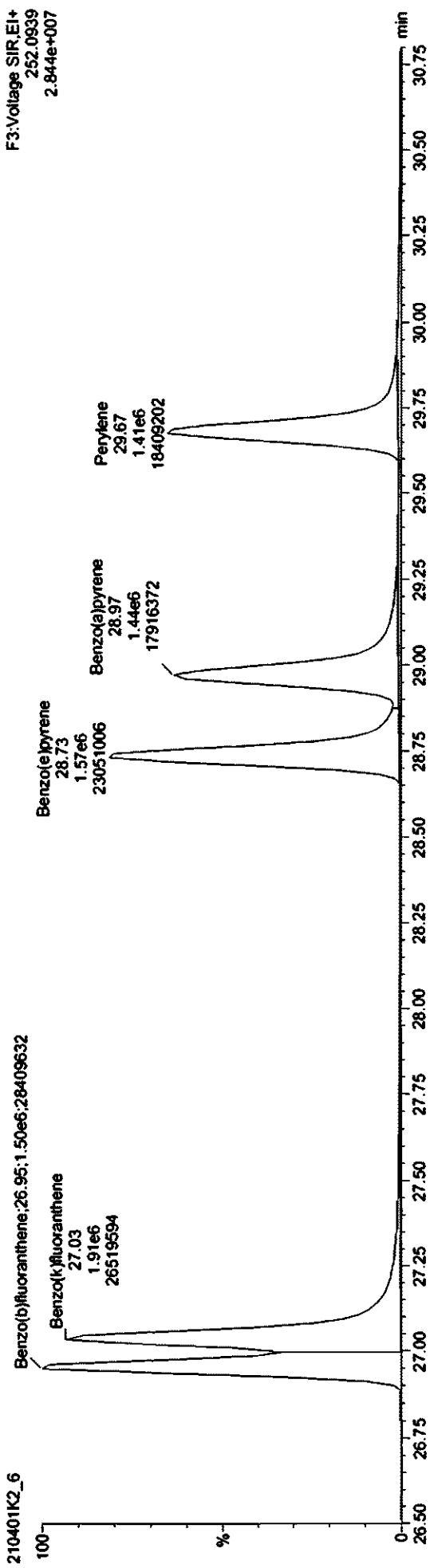


Dataset: Untitled

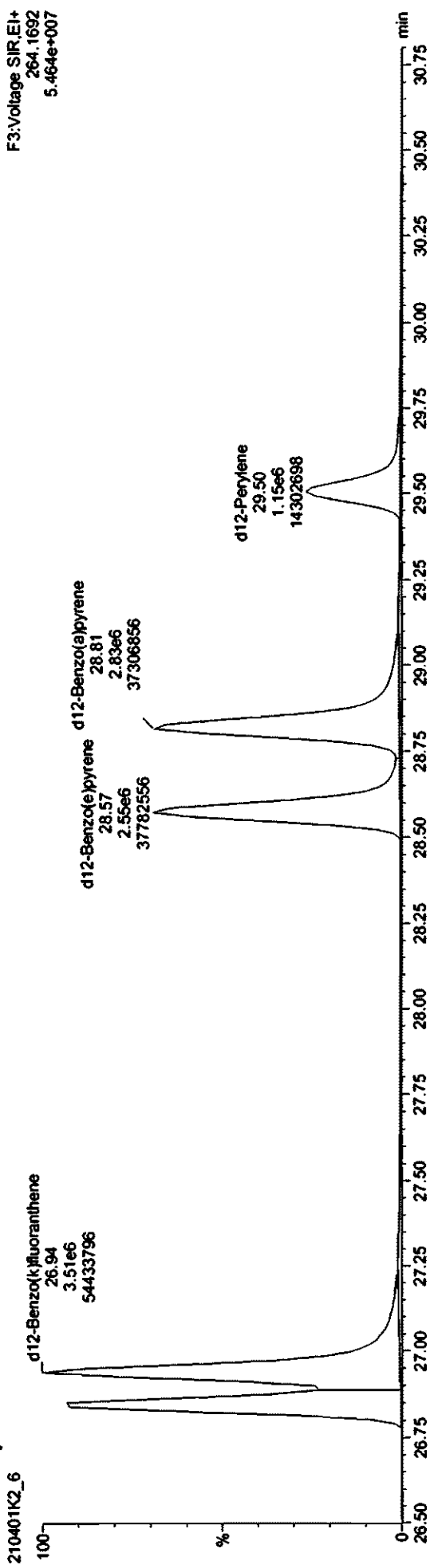
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512

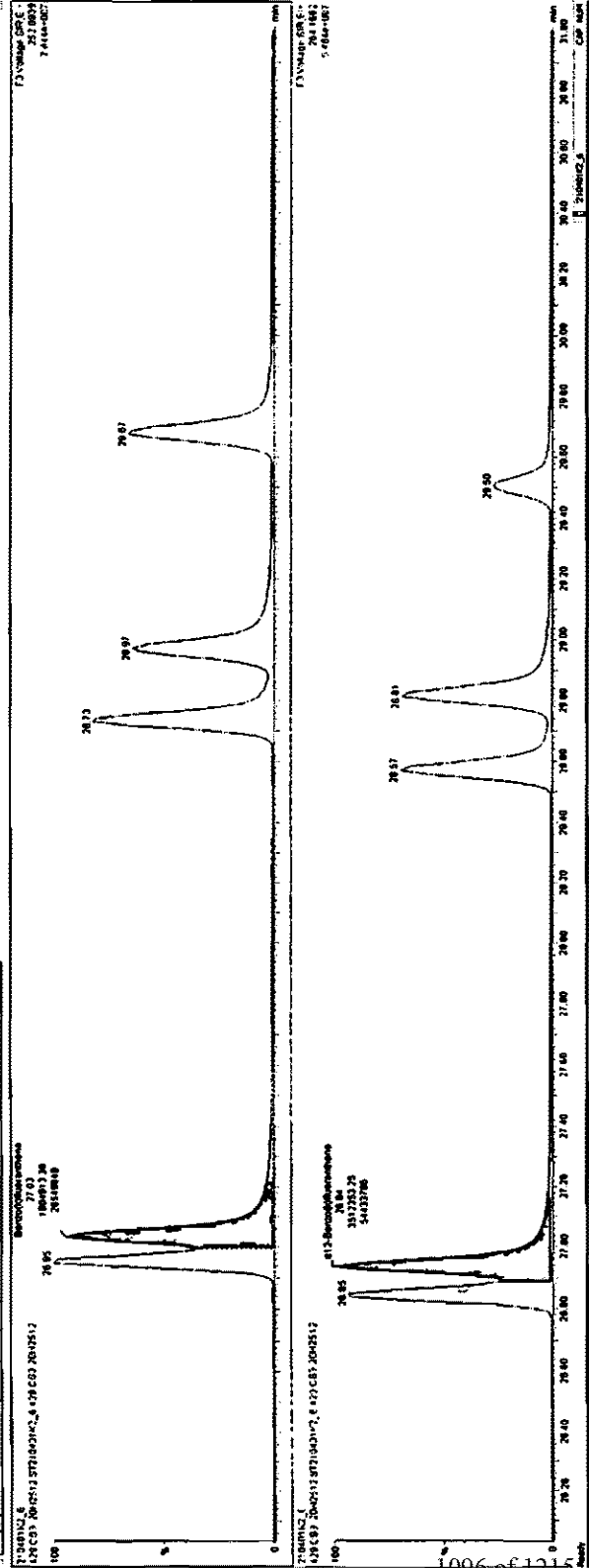
Benzo-PAHs



Benzo-isotopes



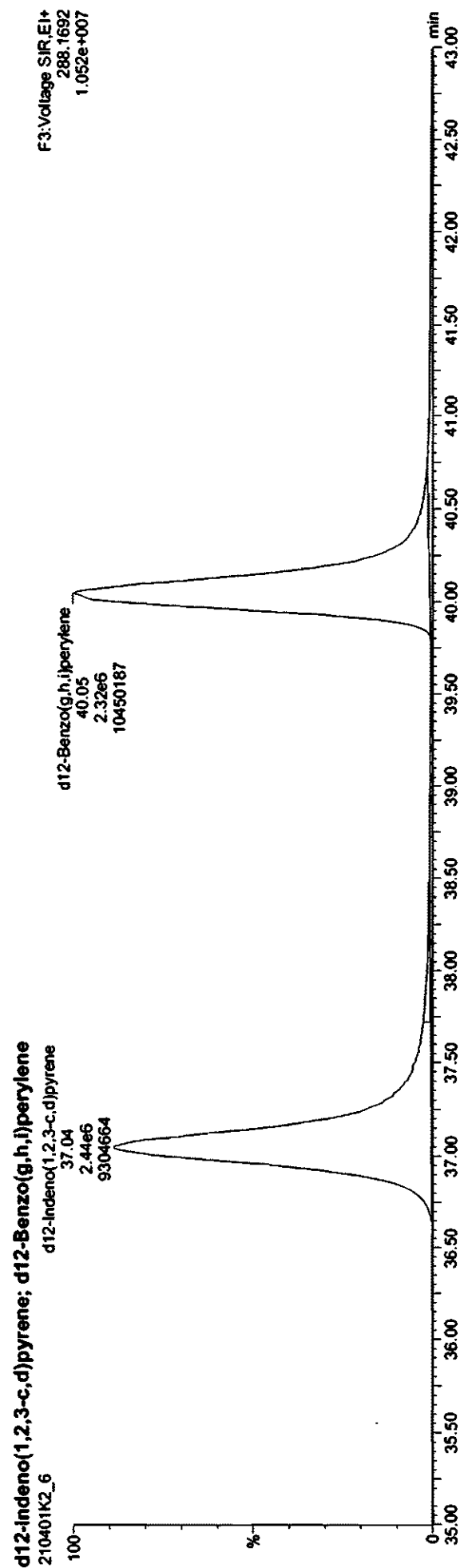
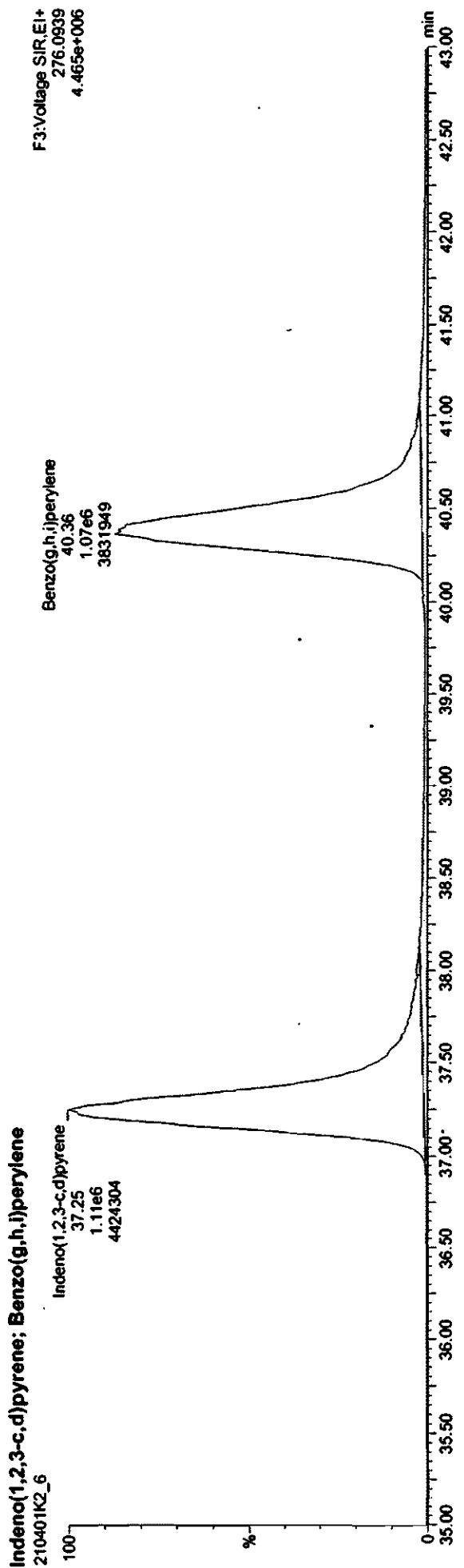
| Peak # | Retention Time (min) | Area | % Area | Height | Width | Symmetry | Resolution | Integration |
|--------|----------------------|----------|--------|--------|-------|----------|------------|-------------|
| 14 | 26.95 | 1.99E+06 | 3.13 | 5.51 | 1.10 | 0.950 | - | 0.999 |
| 15 | 26.97 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 16 | 26.99 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 17 | 26.99 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 18 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 19 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 20 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 21 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 22 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 23 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 24 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 25 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 26 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 27 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 28 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 29 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 30 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 31 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 32 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 33 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 34 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 35 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 36 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 37 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 38 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 39 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 40 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 41 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 42 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 43 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 44 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 45 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 46 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 47 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 48 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 49 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 50 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 51 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 52 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 53 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 54 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |
| 55 | 27.01 | 1.99E+06 | 3.13 | 5.49 | 1.09 | 0.999 | - | 0.999 |



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
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Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

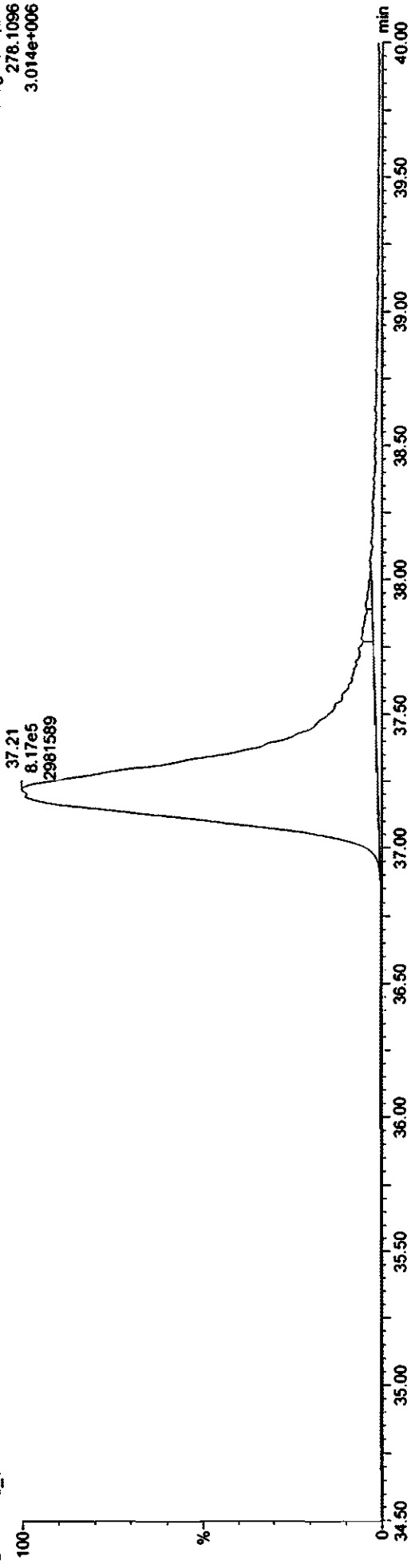
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_6, Date: 01-Apr-2021, Time: 13:27:05, ID: ST210401K2_6 429 CS3 20H2512, Description: 429 CS3 20H2512

Dibenz(a,h)anthracene

210401K2_6

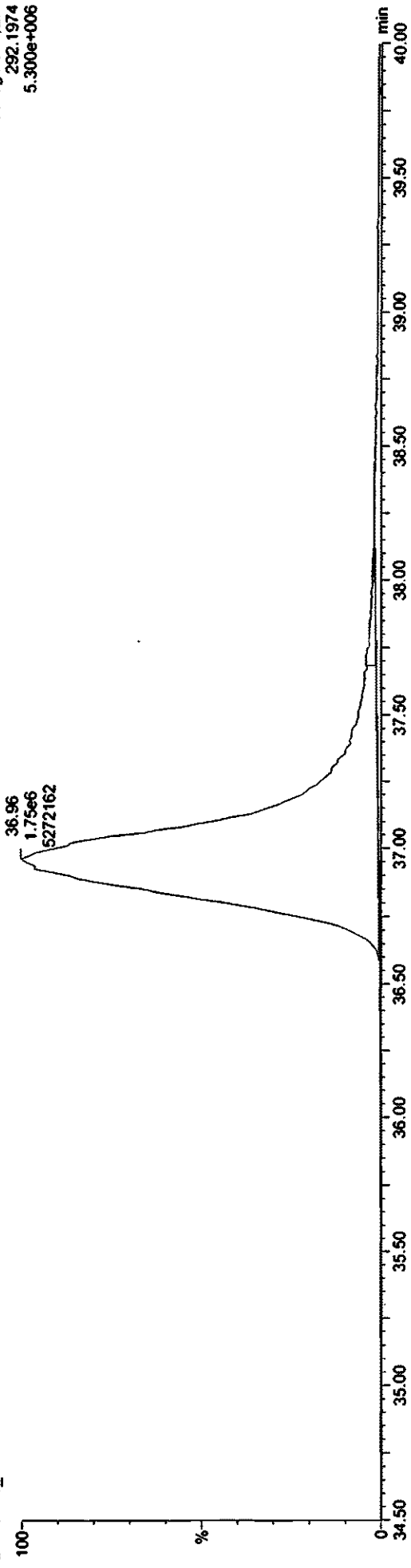
F3:Voltage SIR,EI+
278.1096
3.014e+006



d14-Dibenz(a,h)anthracene

210401K2_6

F3:Voltage SIR,EI+
292.1974
5.300e+006



New All View Delete Refresh Update

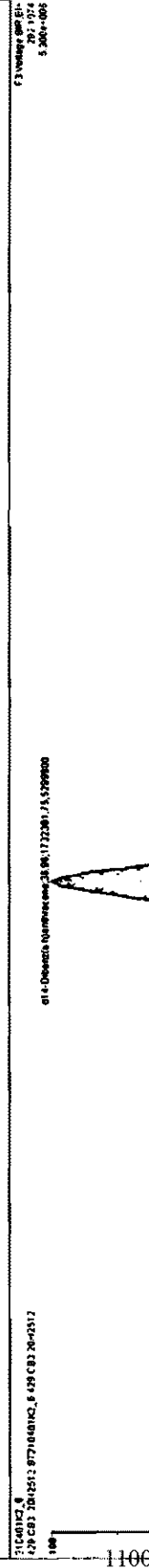
[Home] [Back] [Forward] [Print] [Zoom] [Refresh] [Close]

[Home] [Back] [Forward] [Print] [Zoom] [Refresh] [Close]

[Home] [Back] [Forward] [Print] [Zoom] [Refresh] [Close]

[Home] [Back] [Forward] [Print] [Zoom] [Refresh] [Close]

| RT | Area | Area% | Conc. | Conc% | Weight | Weight% |
|----|--------|---------|---------|-------|--------|---------|
| 14 | 180966 | 2.62146 | 100.000 | 3.3 | 5.91 | 1.10 |
| 15 | 180966 | 2.62146 | 100.000 | -1.8 | 5.80 | 1.04 |
| 16 | 187366 | 2.72566 | 100.000 | -1.7 | 5.15 | 0.91 |
| 17 | 187366 | 2.72566 | 100.000 | 6.1 | 3.38 | 1.02 |
| 18 | 187366 | 2.72566 | 100.000 | 0.8 | 2.15 | 0.62 |
| 19 | 187366 | 2.72566 | 100.000 | 7.9 | 3.64 | 0.81 |
| 20 | 187366 | 2.72566 | 100.000 | -7.0 | 4.62 | 0.84 |
| 21 | 187366 | 2.72566 | 100.000 | 0.8 | 4.62 | 0.84 |
| 22 | 187366 | 2.72566 | 100.000 | 0.8 | 4.10 | 1.29 |
| 23 | 187366 | 2.72566 | 100.000 | 0.8 | 4.10 | 1.29 |
| 24 | 187366 | 2.72566 | 100.000 | -2.5 | 4.29 | 0.94 |
| 25 | 187366 | 2.72566 | 100.000 | -2.5 | 4.29 | 0.94 |
| 26 | 187366 | 2.72566 | 100.000 | -2.5 | 4.29 | 0.94 |



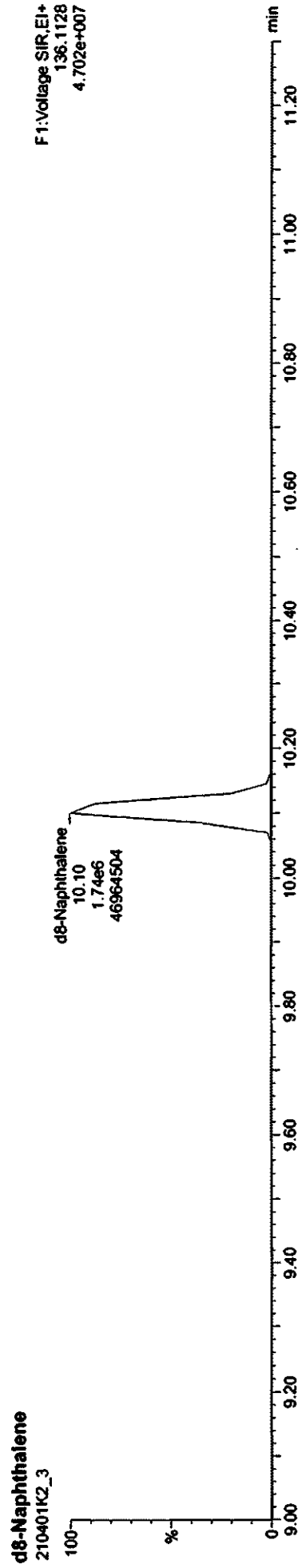
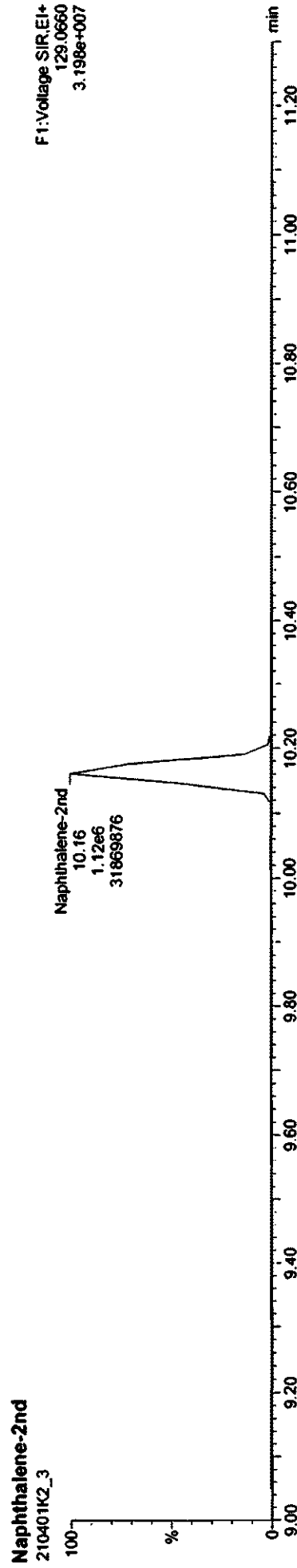
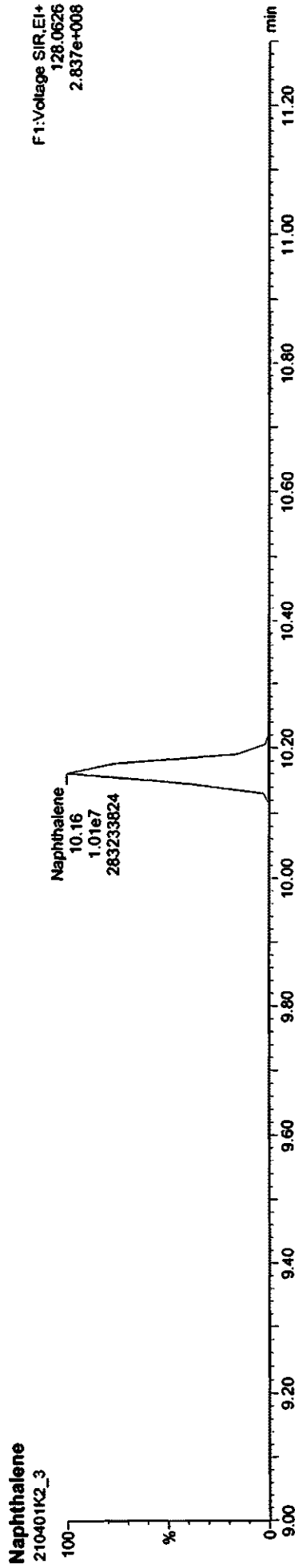
| RT | Area | Area% | Conc. | Conc% | Weight | Weight% |
|-----|--------|---------|---------|-------|--------|---------|
| 375 | 180966 | 2.62146 | 100.000 | 3.3 | 5.91 | 1.10 |
| 380 | 180966 | 2.62146 | 100.000 | -1.8 | 5.80 | 1.04 |
| 385 | 187366 | 2.72566 | 100.000 | -1.7 | 5.15 | 0.91 |
| 390 | 187366 | 2.72566 | 100.000 | 6.1 | 3.38 | 1.02 |
| 395 | 187366 | 2.72566 | 100.000 | 0.8 | 2.15 | 0.62 |
| 400 | 187366 | 2.72566 | 100.000 | 7.9 | 3.64 | 0.81 |
| 405 | 187366 | 2.72566 | 100.000 | -7.0 | 4.62 | 0.84 |
| 410 | 187366 | 2.72566 | 100.000 | 0.8 | 4.62 | 0.84 |
| 415 | 187366 | 2.72566 | 100.000 | 0.8 | 4.10 | 1.29 |
| 420 | 187366 | 2.72566 | 100.000 | 0.8 | 4.10 | 1.29 |
| 425 | 187366 | 2.72566 | 100.000 | -2.5 | 4.29 | 0.94 |
| 430 | 187366 | 2.72566 | 100.000 | -2.5 | 4.29 | 0.94 |

Quantify Sample Report
Visia Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

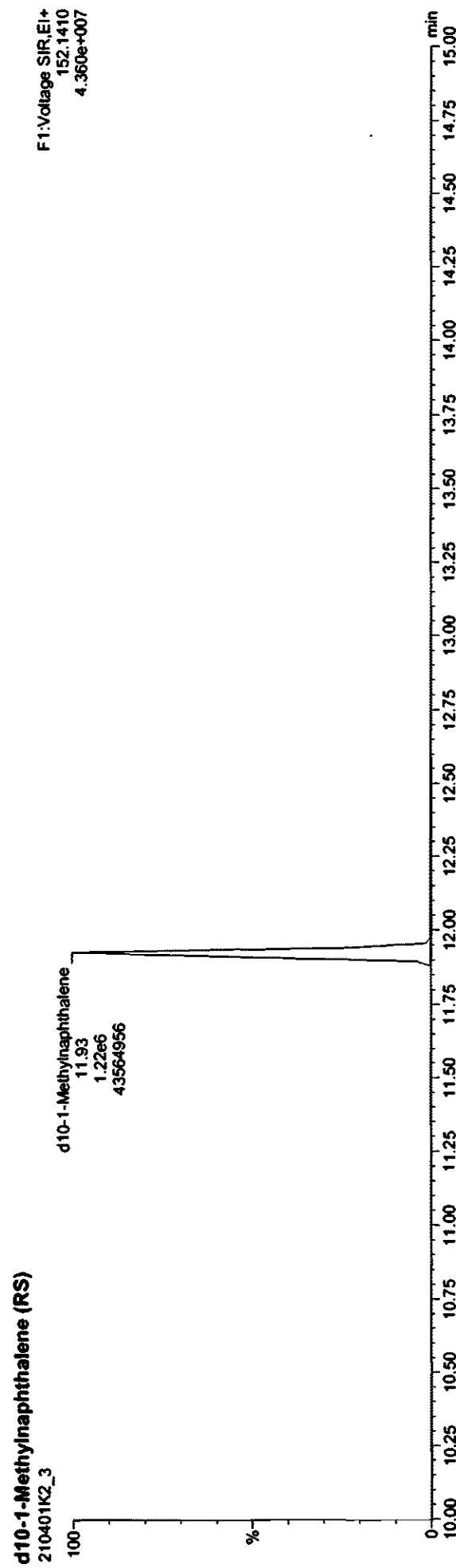
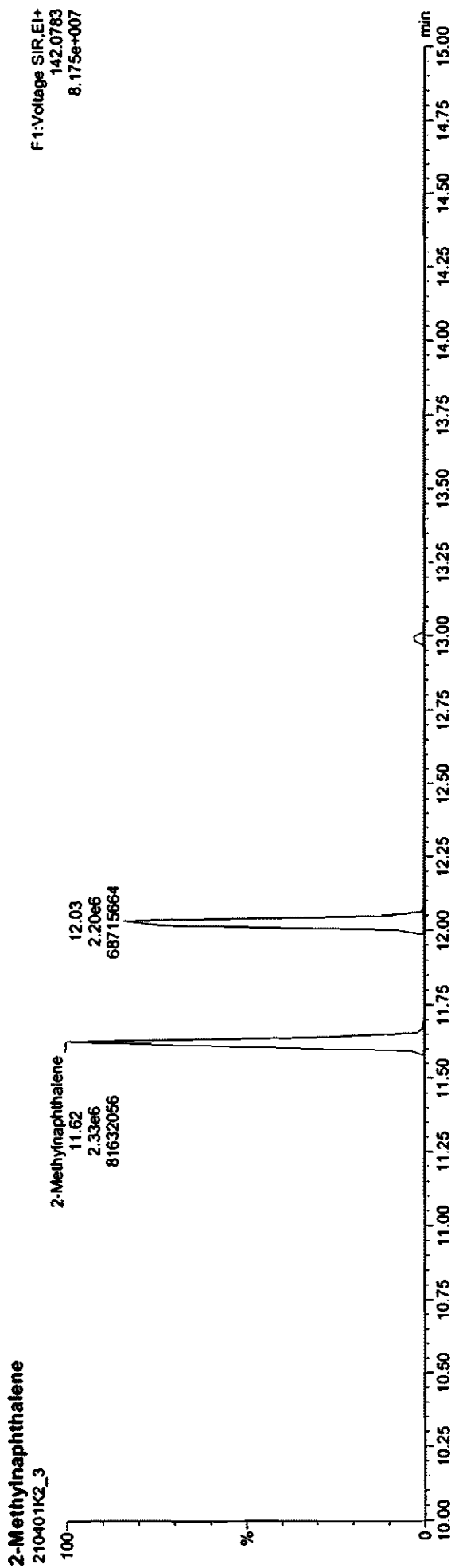
Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513

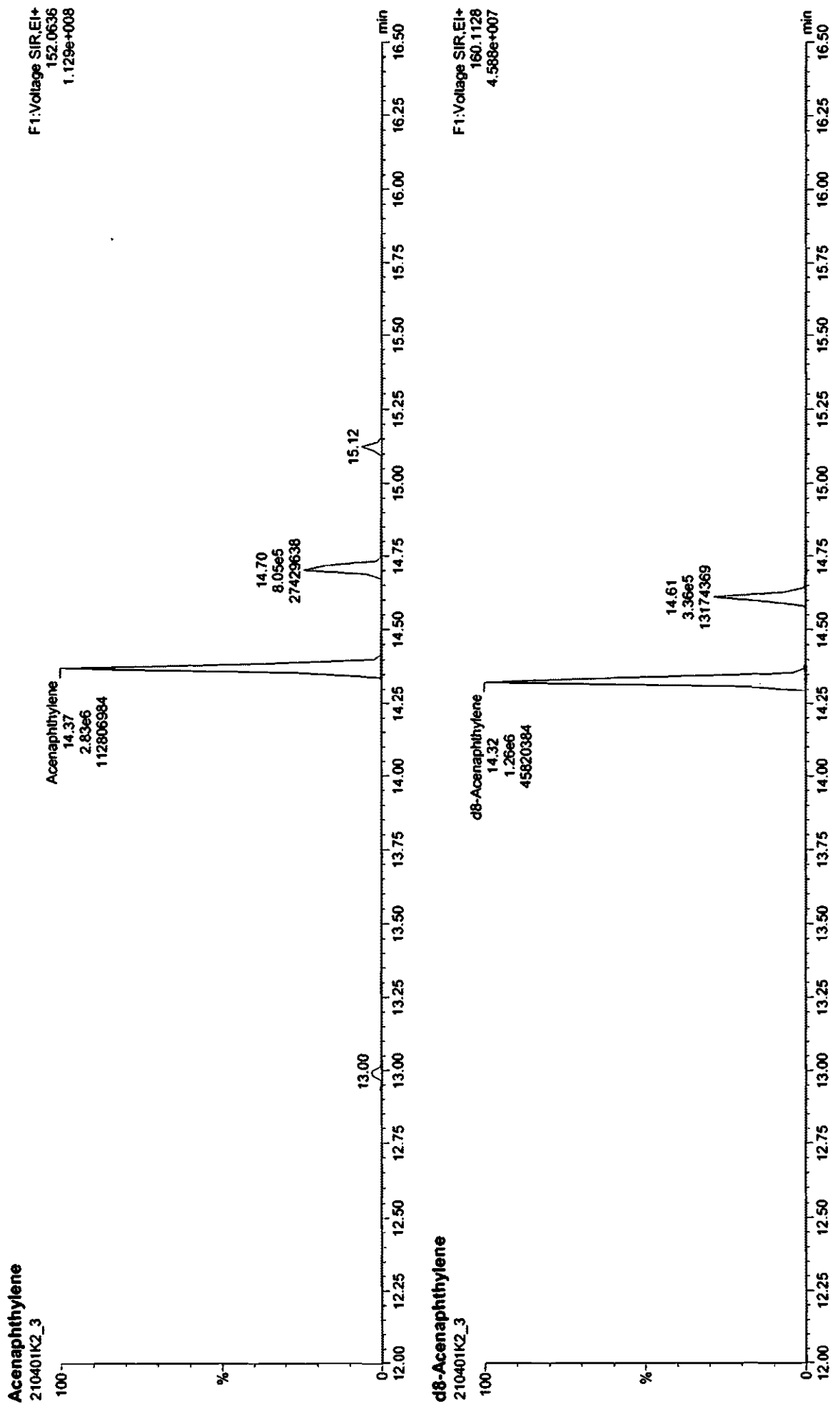


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513

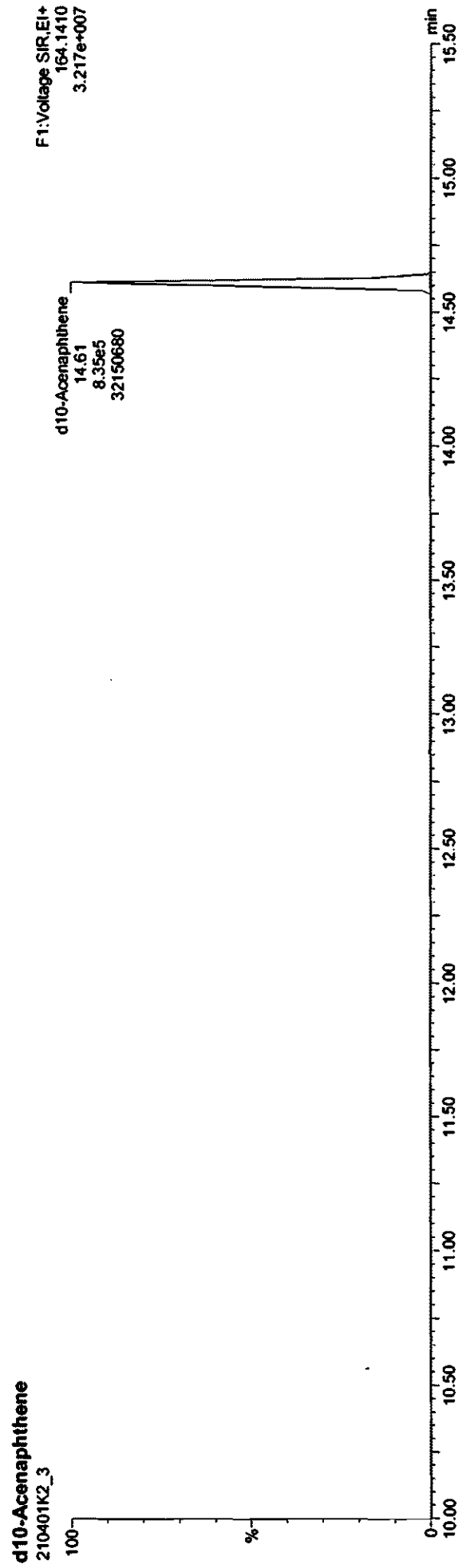
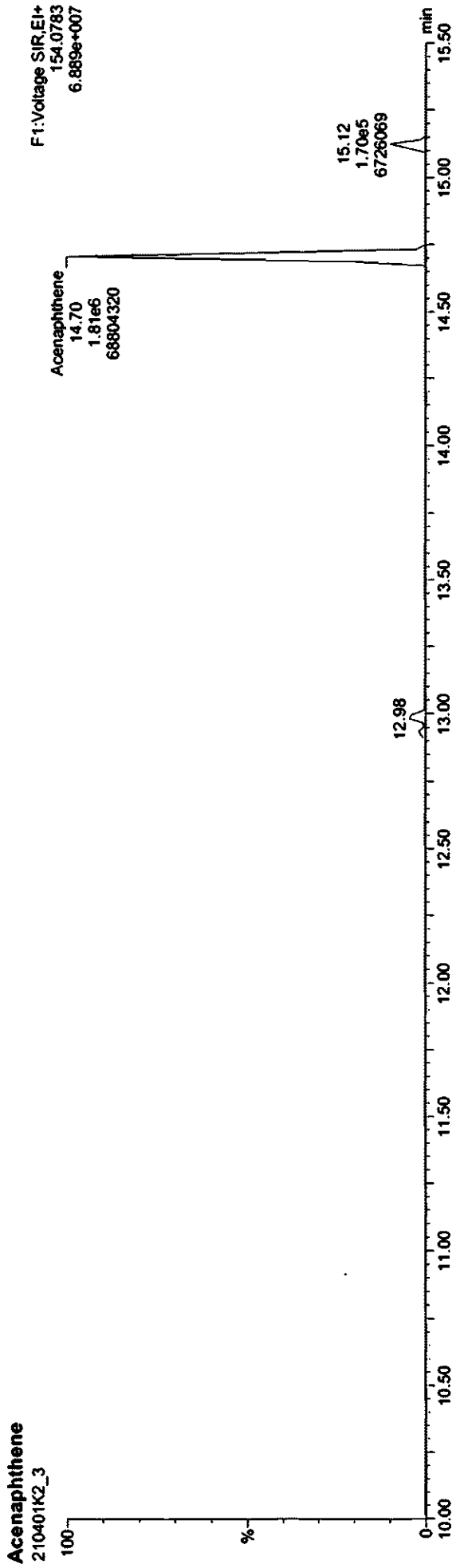


Quantify Sample Report
Vista Analytical Laboratory

Dataset: **Untitled**

Last Altered: **Thursday, April 01, 2021 16:21:46 Pacific Daylight Time**
Printed: **Thursday, April 01, 2021 16:24:39 Pacific Daylight Time**

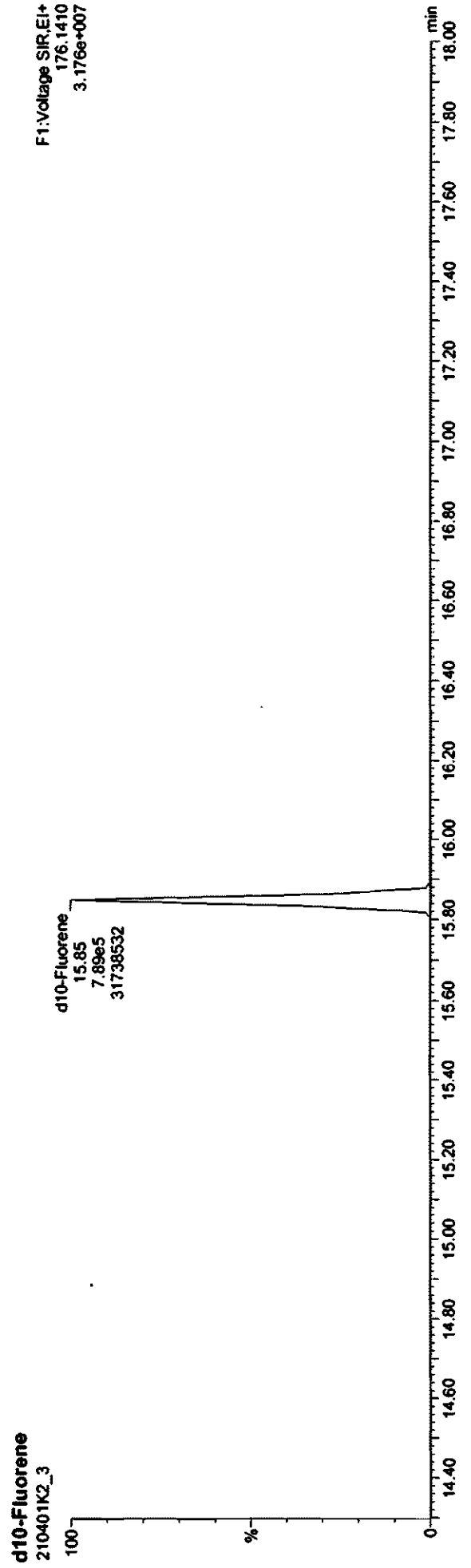
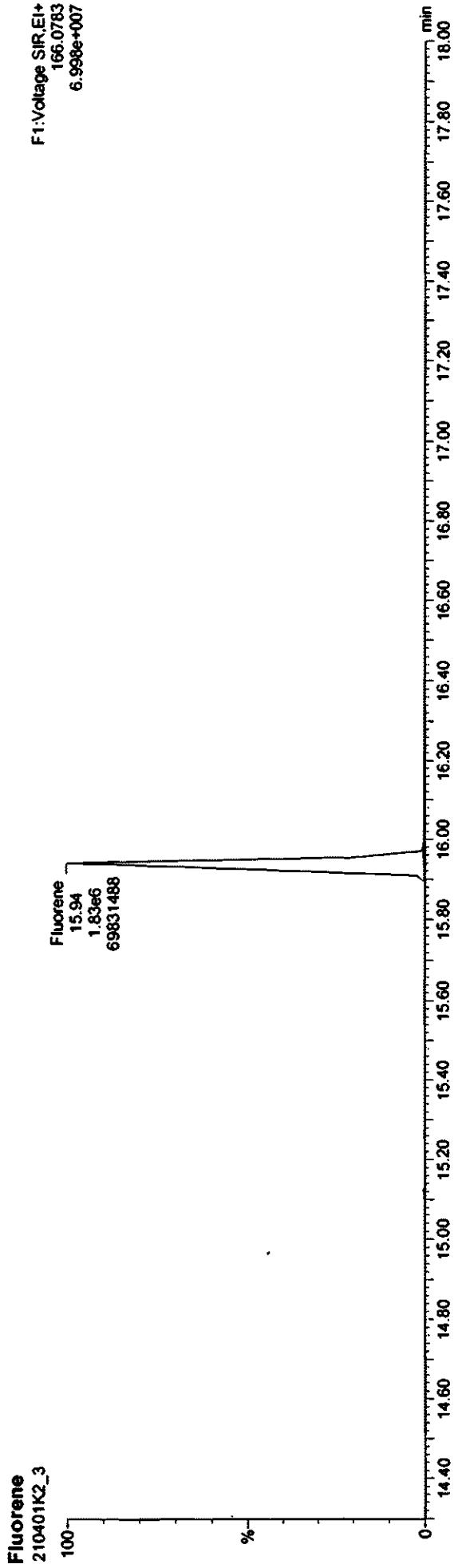
Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513



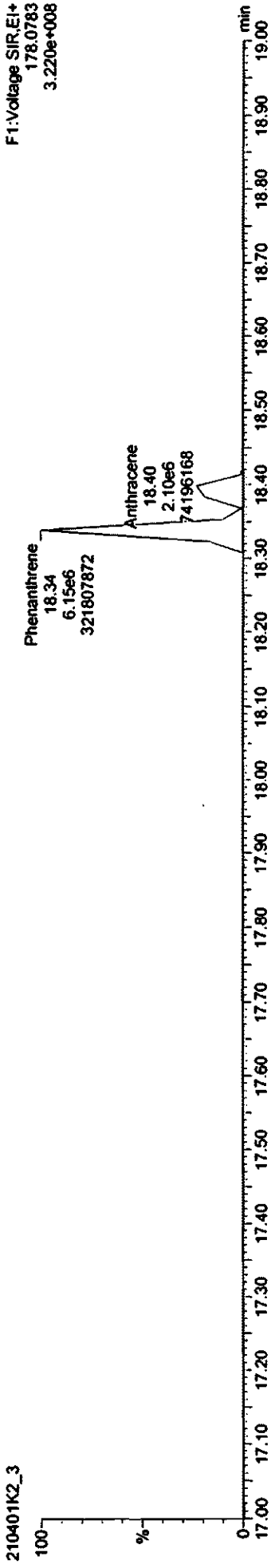
Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

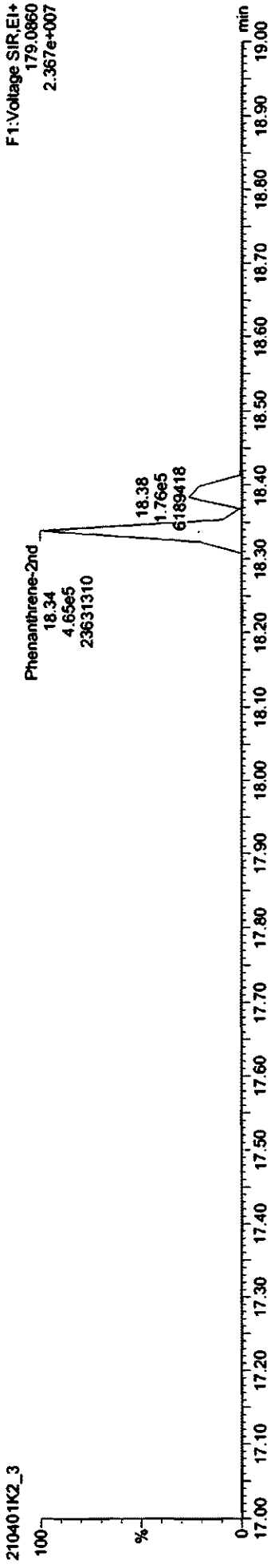
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Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513

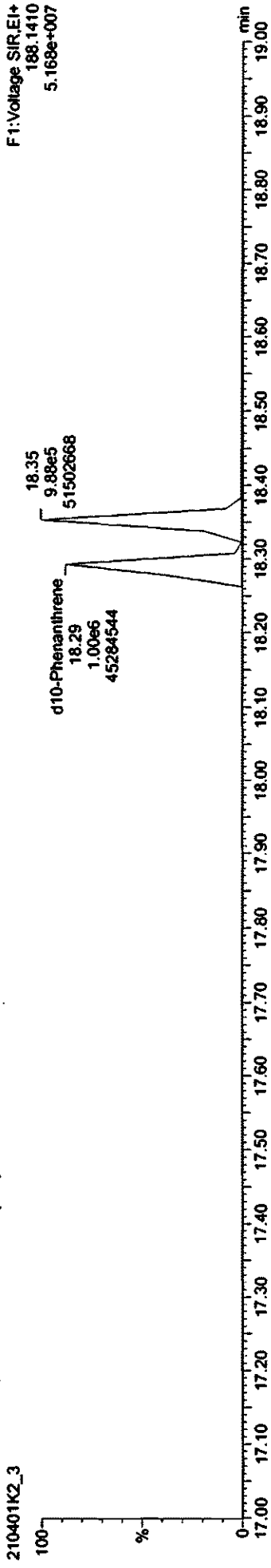
Phenanthrene; Anthracene



Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)



Quantify Sample Report
Vista Analytical Laboratory

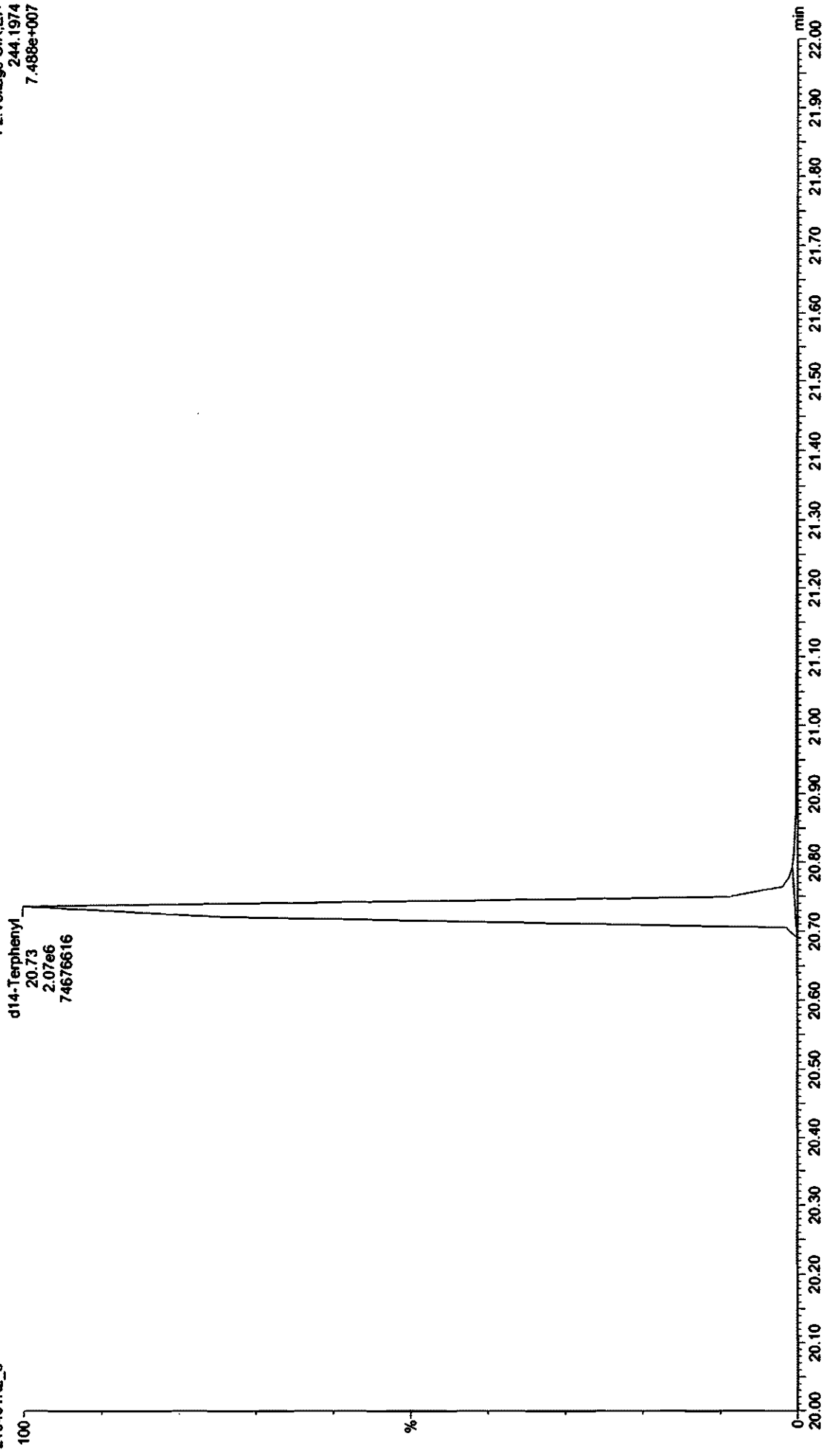
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Name: 210401K2_3; Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513

d14-Terphenyl (PS)
210401K2_3

F2:Voltage SIR,EI+
244.1974
7.488e+007



Dataset: Untitled

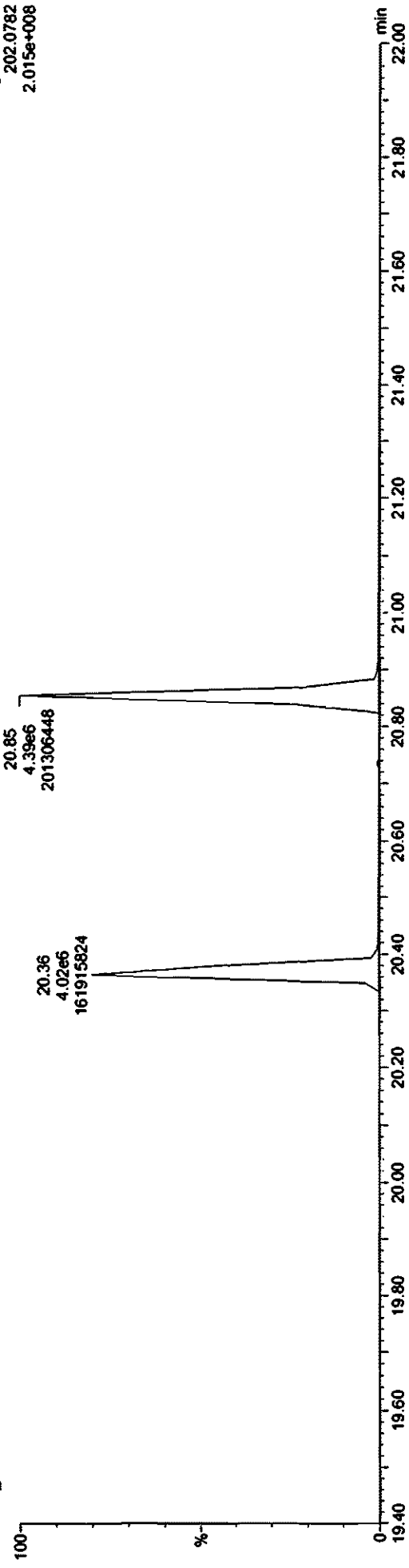
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Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3_429 CS4 20H2513, Description: 429 CS4 20H2513

Fluoranthene; Pyrene

210401K2_3

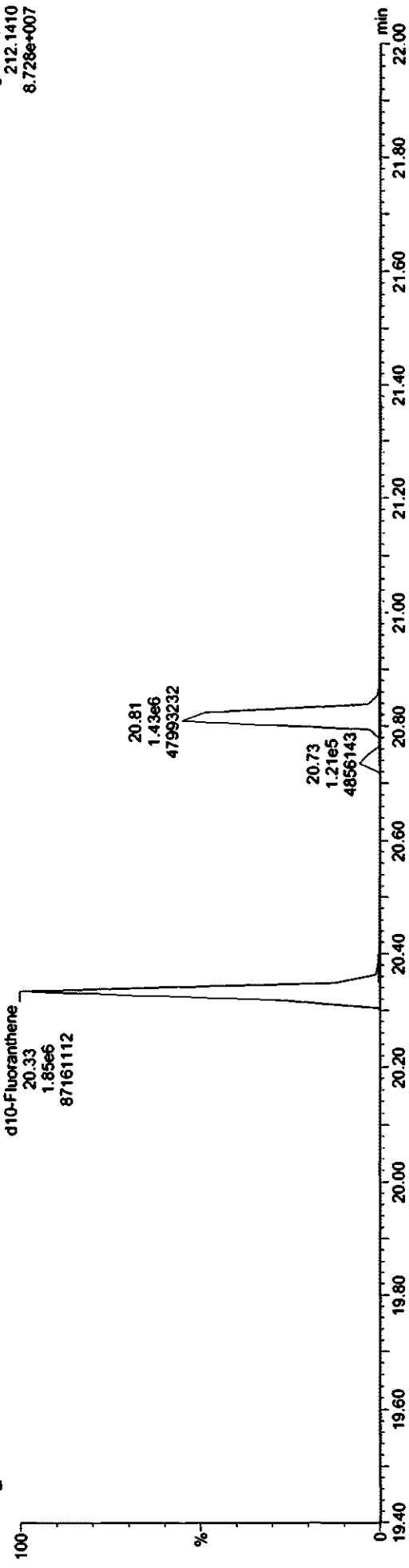
F2:Voltage SIR,EI+
202.0782
2.015e+008



d10-Fluoranthene; d10-Pyrene (RS)

210401K2_3

F2:Voltage SIR,EI+
212.1410
8.728e+007



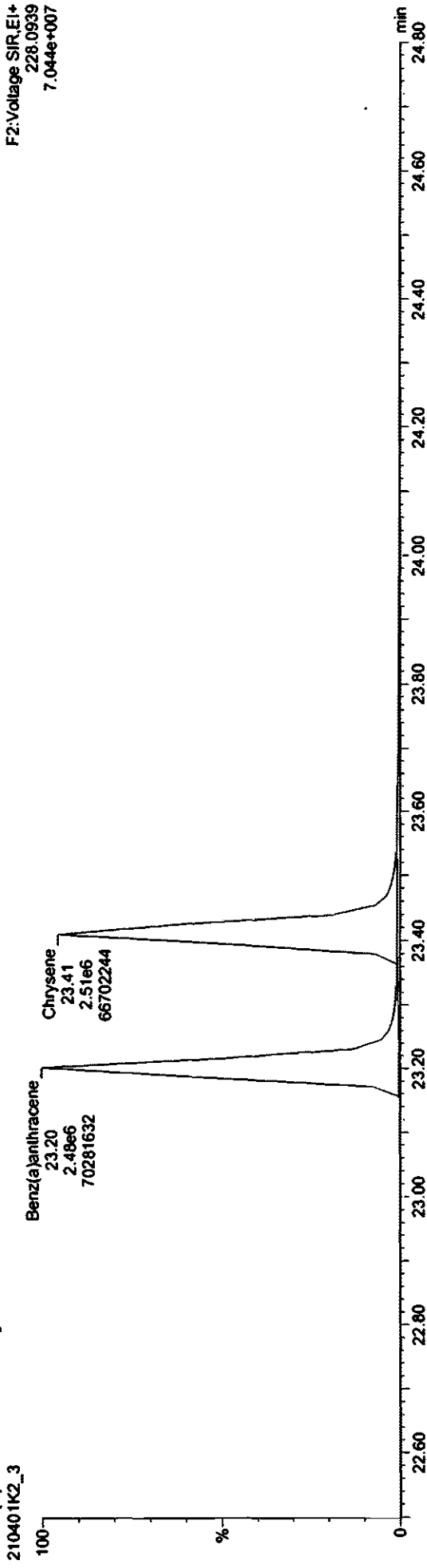
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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

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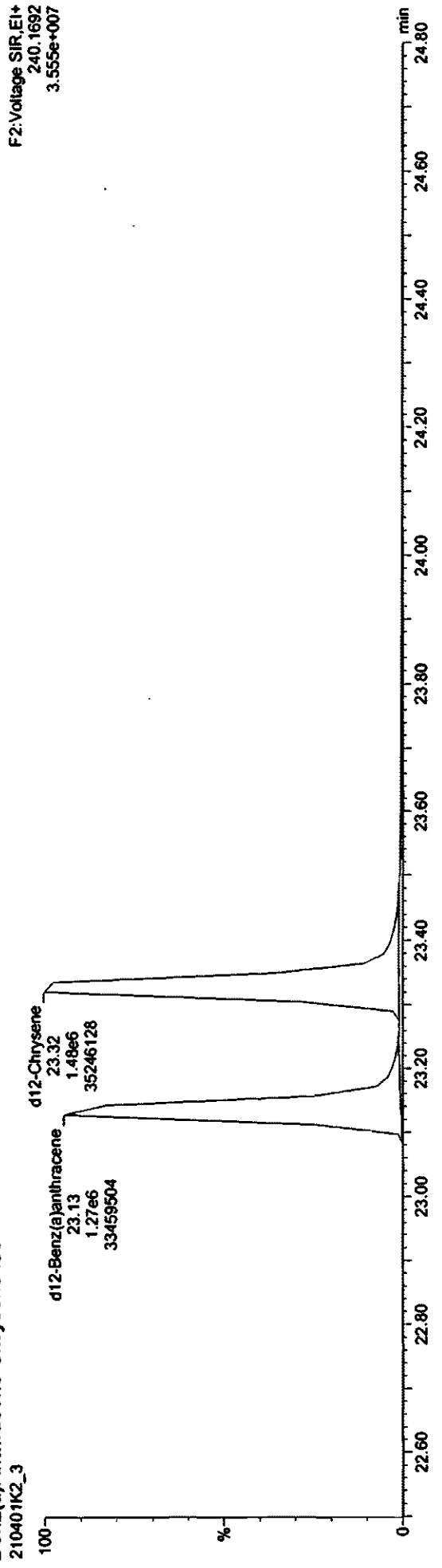
Benz(a)Anthracene-Chrysene

F2:Voltage SIR,EI+
228.0939
7.044e+007



Benz(a)Anthracene-Chrysene-Iso

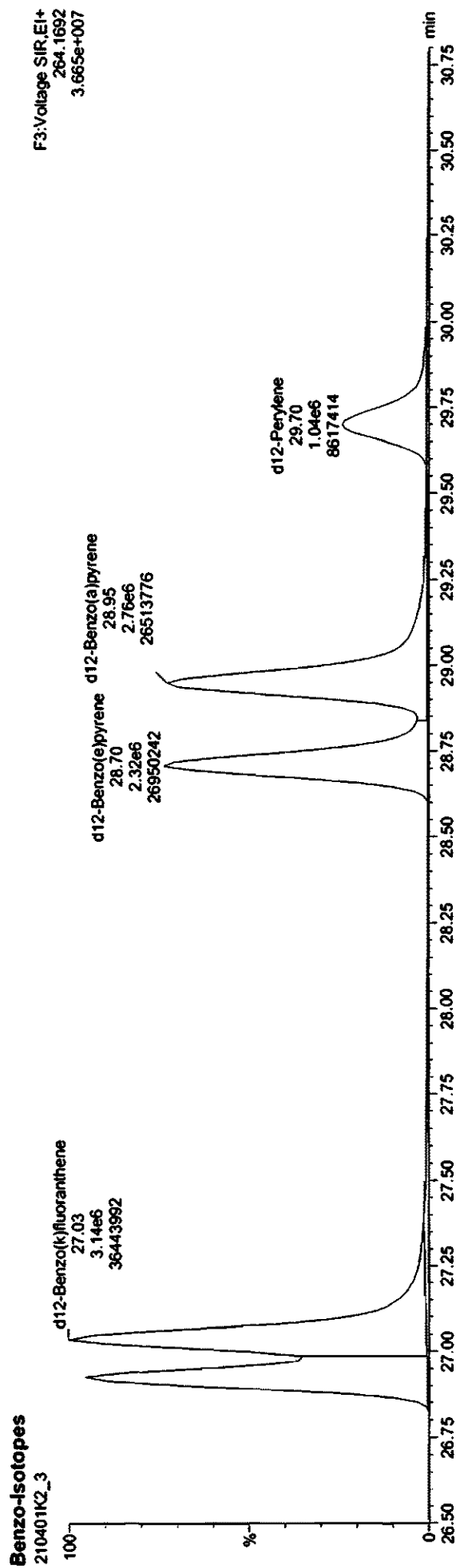
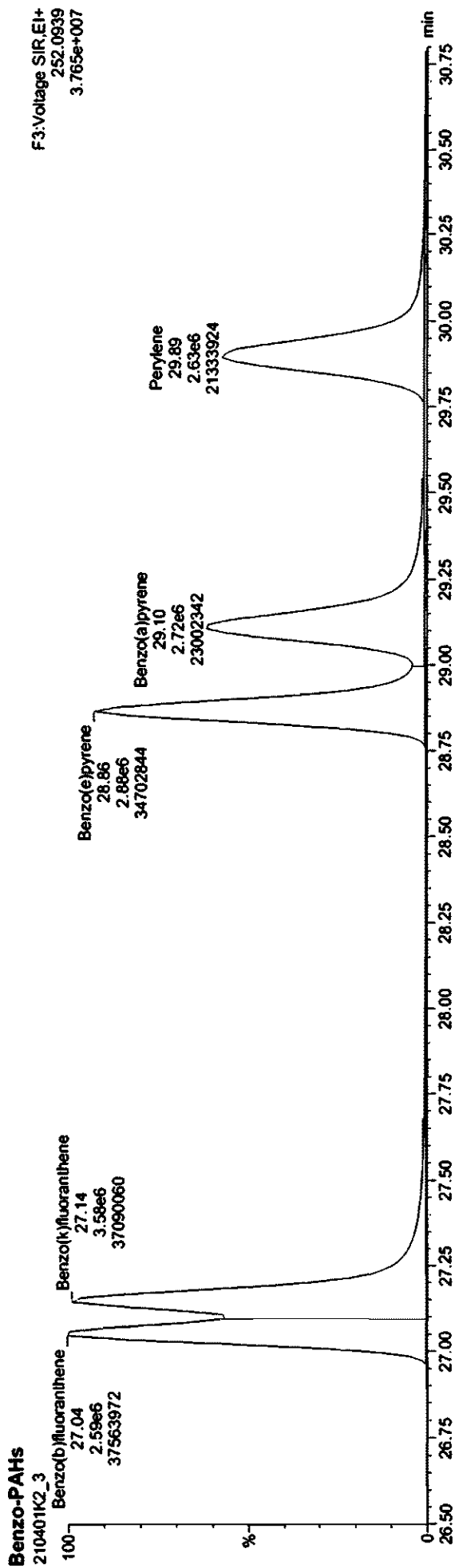
F2:Voltage SIR,EI+
240.1692
3.555e+007



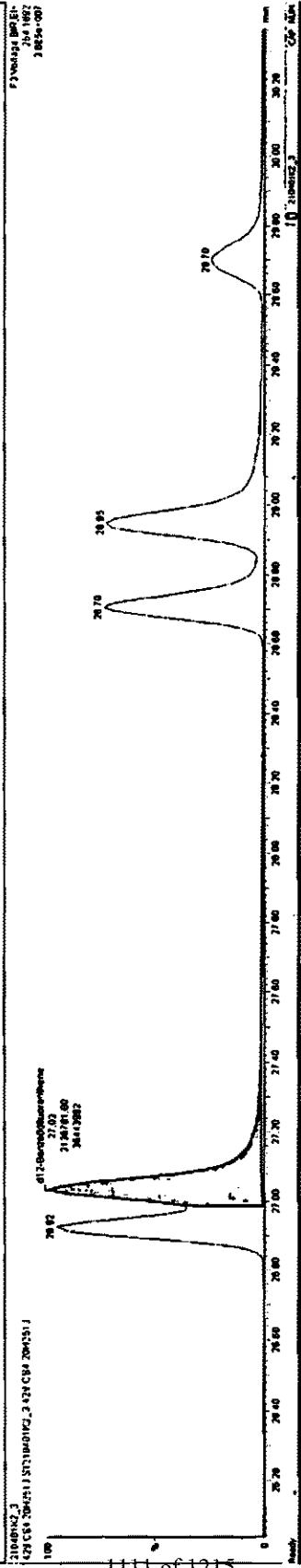
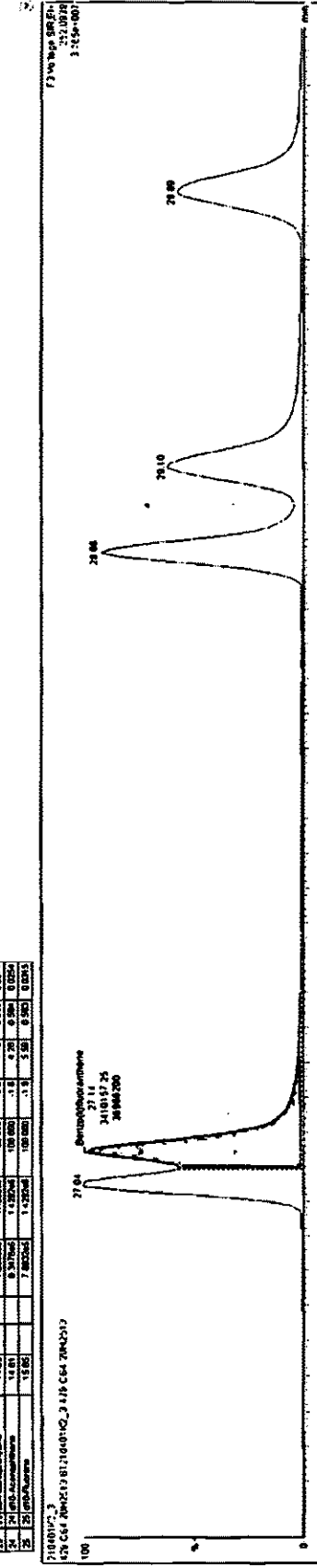
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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

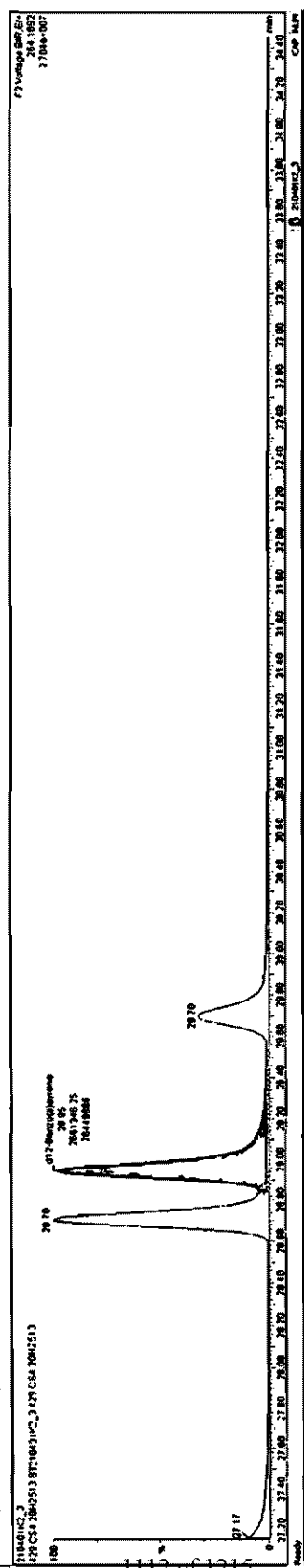
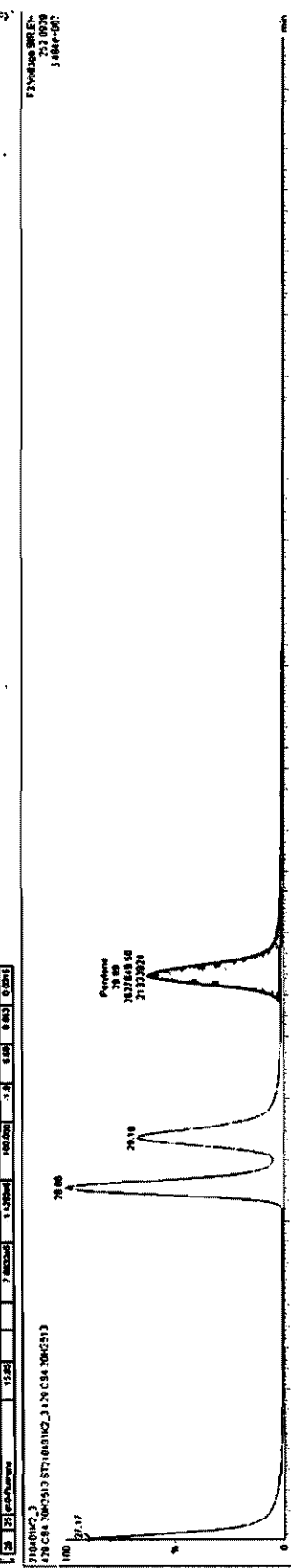
Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513



| Peak # | Retention Time (min) | Area | Height | Width | Height | Area | Height | Width | Height |
|--------|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 14 | 27.04 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 15 | 28.06 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 |
| 16 | 28.10 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 | 3,102,045 |
| 17 | 28.85 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 18 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 19 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 20 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 21 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 22 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 23 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 24 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |
| 25 | 29.70 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 | 2,891,462 |



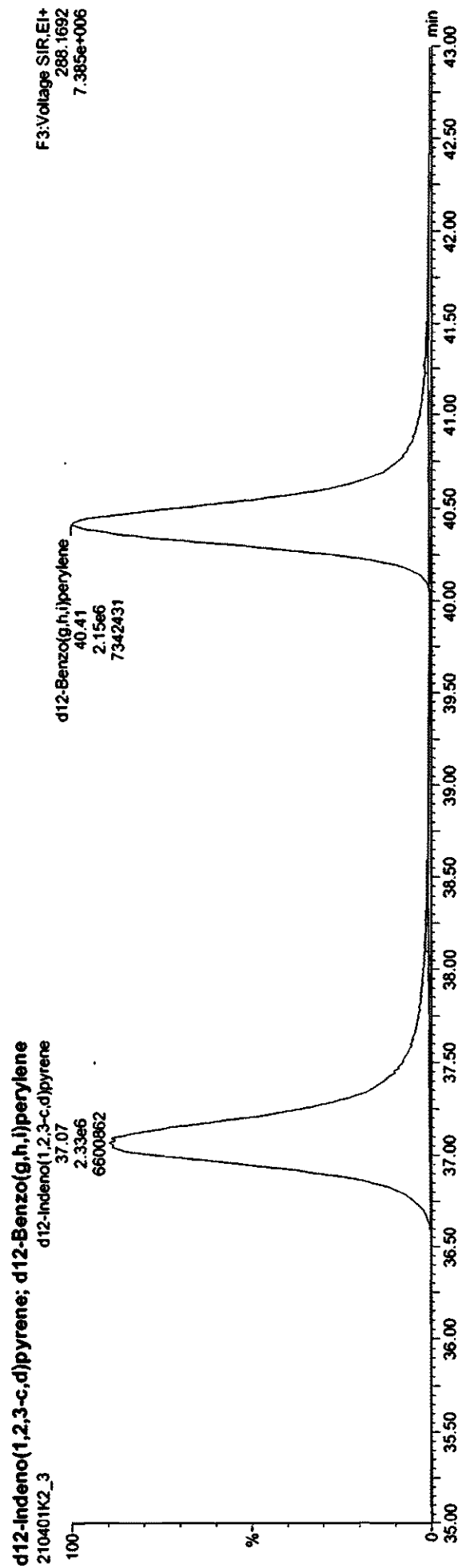
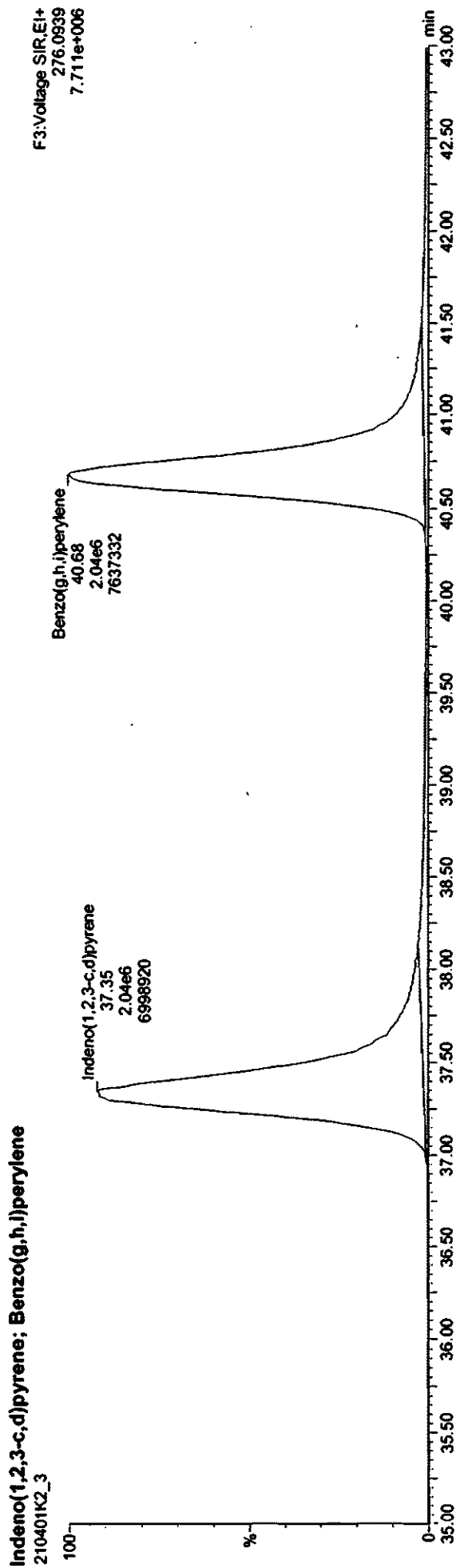
| Peak # | Name | Area | Height | W | Area% | Height% | Area | Height | W | Area% | Height% |
|--------|-------------|---------|--------|-----|-------|---------|---------|--------|-----|-------|---------|
| 14 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 15 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 16 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 17 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 18 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 19 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 20 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 21 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 22 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 23 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 24 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |
| 25 | 1,4-Dioxane | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 | 3457146 | 111.1 | 4.1 | 1.00 | 1.00 |



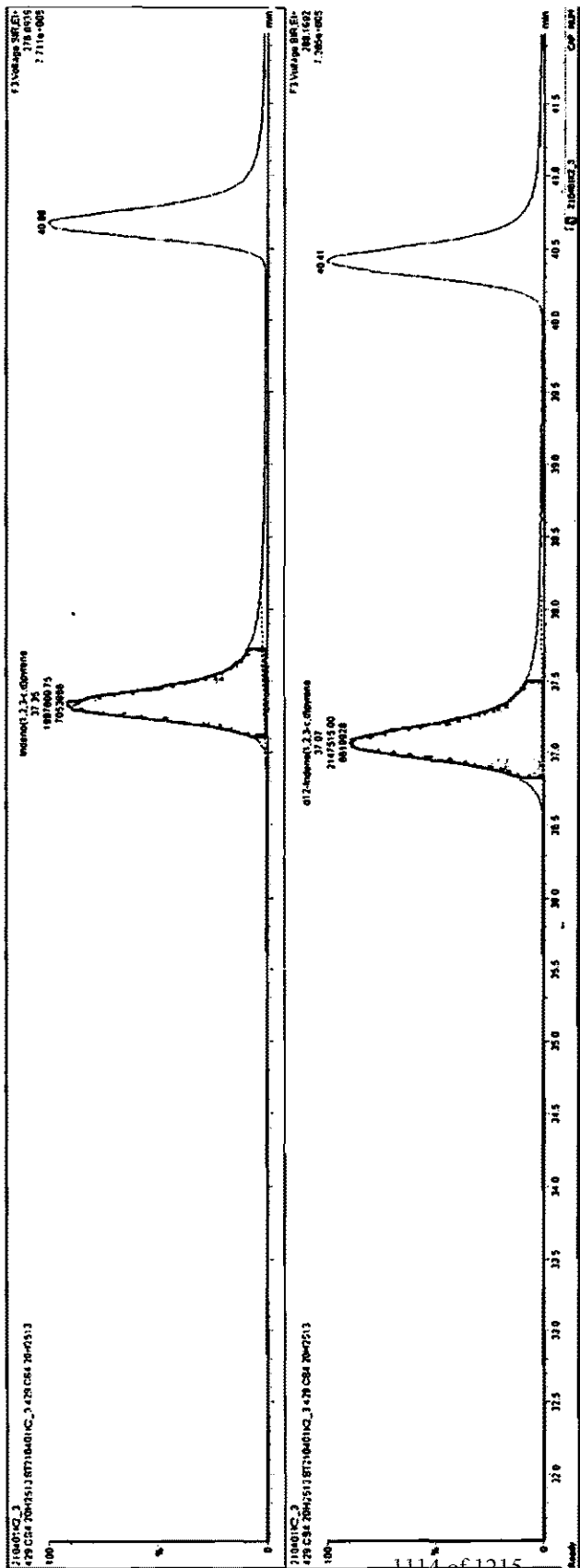
Dataset: Untitled

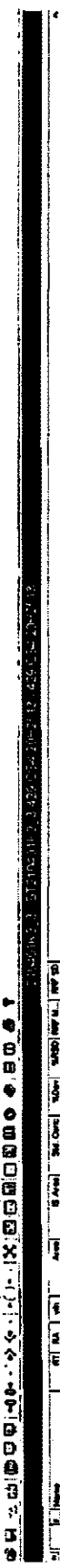
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
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Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3 429 CS4 20H2513, Description: 429 CS4 20H2513

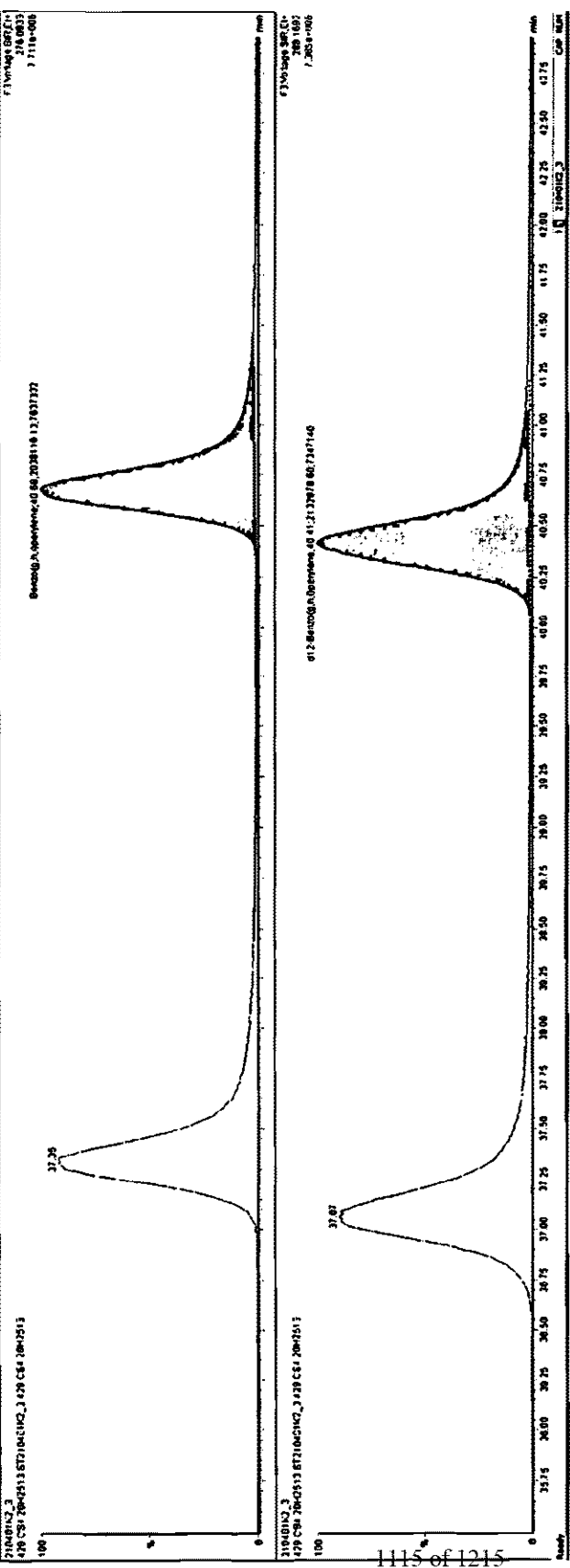


| Peak # | Retention Time (min) | Area | Height | Width | Integration | Area % | Height % |
|--------|----------------------|-----------|-----------|-------|-------------|--------|----------|
| 14 | 27.05 | 2,081,145 | 2,081,145 | 0.81 | 1.00 | 1.00 | 1.00 |
| 15 | 27.14 | 2,112,048 | 2,112,048 | 0.80 | 1.00 | 1.00 | 1.00 |
| 16 | 27.23 | 2,142,951 | 2,142,951 | 0.79 | 1.00 | 1.00 | 1.00 |
| 17 | 27.32 | 2,173,854 | 2,173,854 | 0.78 | 1.00 | 1.00 | 1.00 |
| 18 | 27.41 | 2,204,757 | 2,204,757 | 0.77 | 1.00 | 1.00 | 1.00 |
| 19 | 27.50 | 2,235,660 | 2,235,660 | 0.76 | 1.00 | 1.00 | 1.00 |
| 20 | 27.59 | 2,266,563 | 2,266,563 | 0.75 | 1.00 | 1.00 | 1.00 |
| 21 | 27.68 | 2,297,466 | 2,297,466 | 0.74 | 1.00 | 1.00 | 1.00 |
| 22 | 27.77 | 2,328,369 | 2,328,369 | 0.73 | 1.00 | 1.00 | 1.00 |
| 23 | 27.86 | 2,359,272 | 2,359,272 | 0.72 | 1.00 | 1.00 | 1.00 |
| 24 | 27.95 | 2,390,175 | 2,390,175 | 0.71 | 1.00 | 1.00 | 1.00 |
| 25 | 28.04 | 2,421,078 | 2,421,078 | 0.70 | 1.00 | 1.00 | 1.00 |
| 26 | 28.13 | 2,451,981 | 2,451,981 | 0.69 | 1.00 | 1.00 | 1.00 |
| 27 | 28.22 | 2,482,884 | 2,482,884 | 0.68 | 1.00 | 1.00 | 1.00 |
| 28 | 28.31 | 2,513,787 | 2,513,787 | 0.67 | 1.00 | 1.00 | 1.00 |
| 29 | 28.40 | 2,544,690 | 2,544,690 | 0.66 | 1.00 | 1.00 | 1.00 |
| 30 | 28.49 | 2,575,593 | 2,575,593 | 0.65 | 1.00 | 1.00 | 1.00 |
| 31 | 28.58 | 2,606,496 | 2,606,496 | 0.64 | 1.00 | 1.00 | 1.00 |
| 32 | 28.67 | 2,637,399 | 2,637,399 | 0.63 | 1.00 | 1.00 | 1.00 |
| 33 | 28.76 | 2,668,302 | 2,668,302 | 0.62 | 1.00 | 1.00 | 1.00 |
| 34 | 28.85 | 2,699,205 | 2,699,205 | 0.61 | 1.00 | 1.00 | 1.00 |
| 35 | 28.94 | 2,730,108 | 2,730,108 | 0.60 | 1.00 | 1.00 | 1.00 |
| 36 | 29.03 | 2,761,011 | 2,761,011 | 0.59 | 1.00 | 1.00 | 1.00 |
| 37 | 29.12 | 2,791,914 | 2,791,914 | 0.58 | 1.00 | 1.00 | 1.00 |
| 38 | 29.21 | 2,822,817 | 2,822,817 | 0.57 | 1.00 | 1.00 | 1.00 |
| 39 | 29.30 | 2,853,720 | 2,853,720 | 0.56 | 1.00 | 1.00 | 1.00 |
| 40 | 29.39 | 2,884,623 | 2,884,623 | 0.55 | 1.00 | 1.00 | 1.00 |
| 41 | 29.48 | 2,915,526 | 2,915,526 | 0.54 | 1.00 | 1.00 | 1.00 |
| 42 | 29.57 | 2,946,429 | 2,946,429 | 0.53 | 1.00 | 1.00 | 1.00 |
| 43 | 29.66 | 2,977,332 | 2,977,332 | 0.52 | 1.00 | 1.00 | 1.00 |
| 44 | 29.75 | 3,008,235 | 3,008,235 | 0.51 | 1.00 | 1.00 | 1.00 |
| 45 | 29.84 | 3,039,138 | 3,039,138 | 0.50 | 1.00 | 1.00 | 1.00 |
| 46 | 29.93 | 3,070,041 | 3,070,041 | 0.49 | 1.00 | 1.00 | 1.00 |
| 47 | 30.02 | 3,100,944 | 3,100,944 | 0.48 | 1.00 | 1.00 | 1.00 |
| 48 | 30.11 | 3,131,847 | 3,131,847 | 0.47 | 1.00 | 1.00 | 1.00 |
| 49 | 30.20 | 3,162,750 | 3,162,750 | 0.46 | 1.00 | 1.00 | 1.00 |
| 50 | 30.29 | 3,193,653 | 3,193,653 | 0.45 | 1.00 | 1.00 | 1.00 |
| 51 | 30.38 | 3,224,556 | 3,224,556 | 0.44 | 1.00 | 1.00 | 1.00 |
| 52 | 30.47 | 3,255,459 | 3,255,459 | 0.43 | 1.00 | 1.00 | 1.00 |
| 53 | 30.56 | 3,286,362 | 3,286,362 | 0.42 | 1.00 | 1.00 | 1.00 |
| 54 | 30.65 | 3,317,265 | 3,317,265 | 0.41 | 1.00 | 1.00 | 1.00 |
| 55 | 30.74 | 3,348,168 | 3,348,168 | 0.40 | 1.00 | 1.00 | 1.00 |
| 56 | 30.83 | 3,379,071 | 3,379,071 | 0.39 | 1.00 | 1.00 | 1.00 |
| 57 | 30.92 | 3,409,974 | 3,409,974 | 0.38 | 1.00 | 1.00 | 1.00 |
| 58 | 31.01 | 3,440,877 | 3,440,877 | 0.37 | 1.00 | 1.00 | 1.00 |
| 59 | 31.10 | 3,471,780 | 3,471,780 | 0.36 | 1.00 | 1.00 | 1.00 |
| 60 | 31.19 | 3,502,683 | 3,502,683 | 0.35 | 1.00 | 1.00 | 1.00 |
| 61 | 31.28 | 3,533,586 | 3,533,586 | 0.34 | 1.00 | 1.00 | 1.00 |
| 62 | 31.37 | 3,564,489 | 3,564,489 | 0.33 | 1.00 | 1.00 | 1.00 |
| 63 | 31.46 | 3,595,392 | 3,595,392 | 0.32 | 1.00 | 1.00 | 1.00 |
| 64 | 31.55 | 3,626,295 | 3,626,295 | 0.31 | 1.00 | 1.00 | 1.00 |
| 65 | 31.64 | 3,657,198 | 3,657,198 | 0.30 | 1.00 | 1.00 | 1.00 |
| 66 | 31.73 | 3,688,101 | 3,688,101 | 0.29 | 1.00 | 1.00 | 1.00 |
| 67 | 31.82 | 3,719,004 | 3,719,004 | 0.28 | 1.00 | 1.00 | 1.00 |
| 68 | 31.91 | 3,749,907 | 3,749,907 | 0.27 | 1.00 | 1.00 | 1.00 |
| 69 | 32.00 | 3,780,810 | 3,780,810 | 0.26 | 1.00 | 1.00 | 1.00 |
| 70 | 32.09 | 3,811,713 | 3,811,713 | 0.25 | 1.00 | 1.00 | 1.00 |
| 71 | 32.18 | 3,842,616 | 3,842,616 | 0.24 | 1.00 | 1.00 | 1.00 |
| 72 | 32.27 | 3,873,519 | 3,873,519 | 0.23 | 1.00 | 1.00 | 1.00 |
| 73 | 32.36 | 3,904,422 | 3,904,422 | 0.22 | 1.00 | 1.00 | 1.00 |
| 74 | 32.45 | 3,935,325 | 3,935,325 | 0.21 | 1.00 | 1.00 | 1.00 |
| 75 | 32.54 | 3,966,228 | 3,966,228 | 0.20 | 1.00 | 1.00 | 1.00 |
| 76 | 32.63 | 3,997,131 | 3,997,131 | 0.19 | 1.00 | 1.00 | 1.00 |
| 77 | 32.72 | 4,028,034 | 4,028,034 | 0.18 | 1.00 | 1.00 | 1.00 |
| 78 | 32.81 | 4,058,937 | 4,058,937 | 0.17 | 1.00 | 1.00 | 1.00 |
| 79 | 32.90 | 4,089,840 | 4,089,840 | 0.16 | 1.00 | 1.00 | 1.00 |
| 80 | 32.99 | 4,120,743 | 4,120,743 | 0.15 | 1.00 | 1.00 | 1.00 |
| 81 | 33.08 | 4,151,646 | 4,151,646 | 0.14 | 1.00 | 1.00 | 1.00 |
| 82 | 33.17 | 4,182,549 | 4,182,549 | 0.13 | 1.00 | 1.00 | 1.00 |
| 83 | 33.26 | 4,213,452 | 4,213,452 | 0.12 | 1.00 | 1.00 | 1.00 |
| 84 | 33.35 | 4,244,355 | 4,244,355 | 0.11 | 1.00 | 1.00 | 1.00 |
| 85 | 33.44 | 4,275,258 | 4,275,258 | 0.10 | 1.00 | 1.00 | 1.00 |
| 86 | 33.53 | 4,306,161 | 4,306,161 | 0.09 | 1.00 | 1.00 | 1.00 |
| 87 | 33.62 | 4,337,064 | 4,337,064 | 0.08 | 1.00 | 1.00 | 1.00 |
| 88 | 33.71 | 4,367,967 | 4,367,967 | 0.07 | 1.00 | 1.00 | 1.00 |
| 89 | 33.80 | 4,398,870 | 4,398,870 | 0.06 | 1.00 | 1.00 | 1.00 |
| 90 | 33.89 | 4,429,773 | 4,429,773 | 0.05 | 1.00 | 1.00 | 1.00 |
| 91 | 33.98 | 4,460,676 | 4,460,676 | 0.04 | 1.00 | 1.00 | 1.00 |
| 92 | 34.07 | 4,491,579 | 4,491,579 | 0.03 | 1.00 | 1.00 | 1.00 |
| 93 | 34.16 | 4,522,482 | 4,522,482 | 0.02 | 1.00 | 1.00 | 1.00 |
| 94 | 34.25 | 4,553,385 | 4,553,385 | 0.01 | 1.00 | 1.00 | 1.00 |
| 95 | 34.34 | 4,584,288 | 4,584,288 | 0.01 | 1.00 | 1.00 | 1.00 |
| 96 | 34.43 | 4,615,191 | 4,615,191 | 0.00 | 1.00 | 1.00 | 1.00 |
| 97 | 34.52 | 4,646,094 | 4,646,094 | 0.00 | 1.00 | 1.00 | 1.00 |
| 98 | 34.61 | 4,676,997 | 4,676,997 | 0.00 | 1.00 | 1.00 | 1.00 |
| 99 | 34.70 | 4,707,900 | 4,707,900 | 0.00 | 1.00 | 1.00 | 1.00 |
| 100 | 34.79 | 4,738,803 | 4,738,803 | 0.00 | 1.00 | 1.00 | 1.00 |





| RT | Area | Height | Area% | Height% |
|-------|--------|--------|-------|---------|
| 37.26 | 280000 | 9.4 | 0.41 | 1.10 |
| 37.87 | 310000 | 9.8 | 0.43 | 1.24 |
| 41.37 | 280000 | 9.4 | 0.41 | 1.10 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

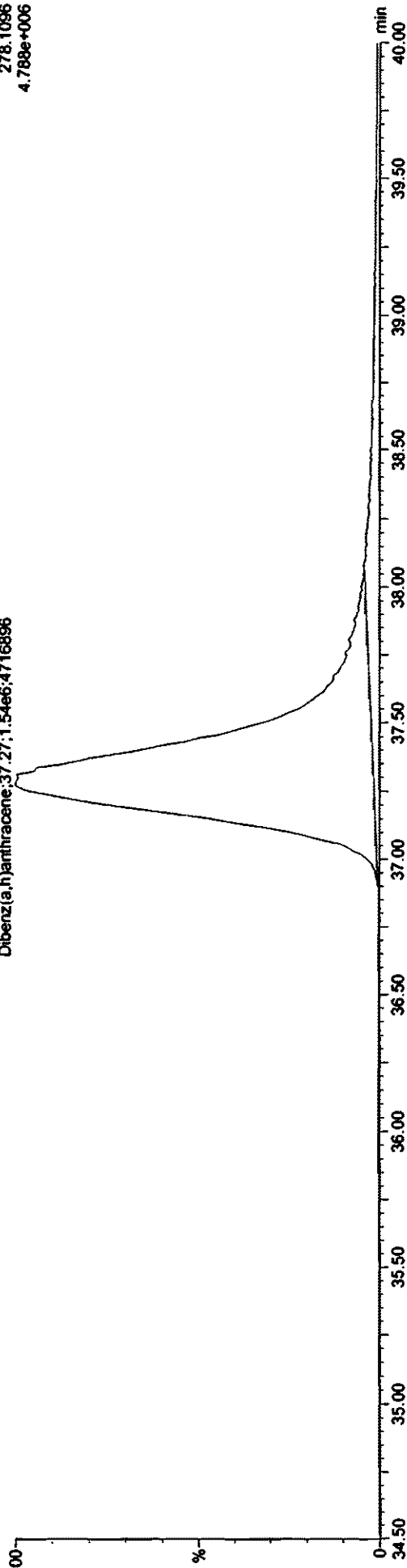
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_3, Date: 01-Apr-2021, Time: 11:06:32, ID: ST210401K2_3_429 CS4 20H2513, Description: 429 CS4 20H2513

Dibenz(a,h)anthracene
210401K2_3

F3:Voltage SIR,EI+
278.1096
4.788e+006

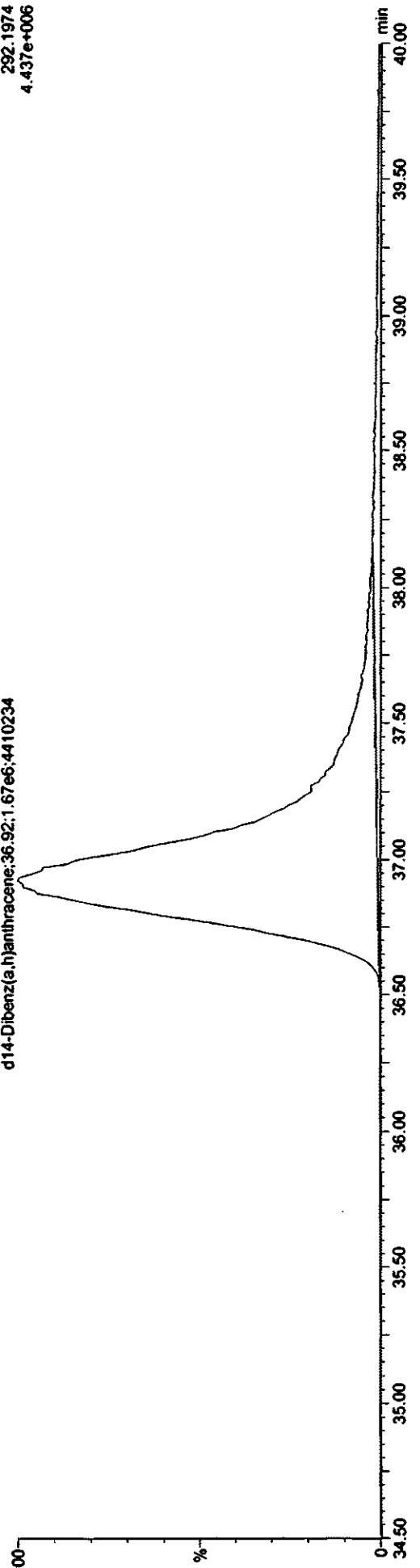
Dibenz(a,h)anthracene:37.27;1.54e6;4716896



d14-Dibenz(a,h)anthracene
210401K2_3

F3:Voltage SIR,EI+
292.1974
4.437e+006

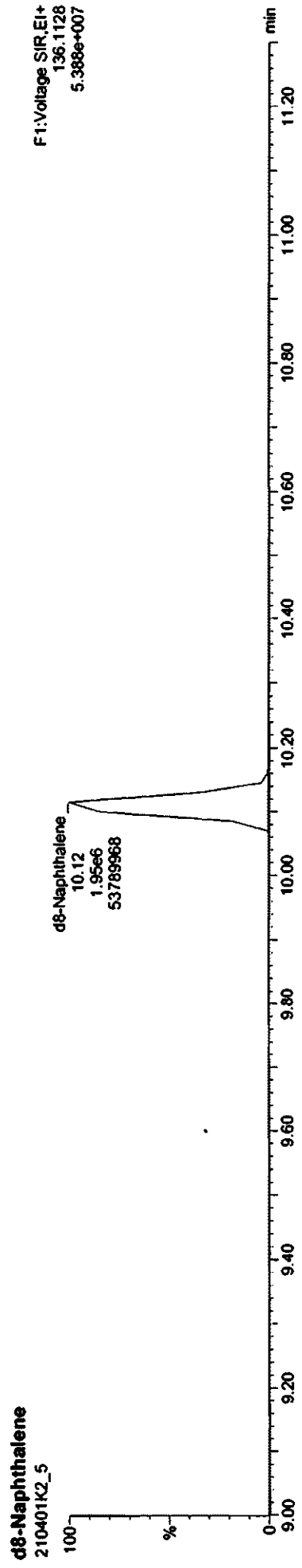
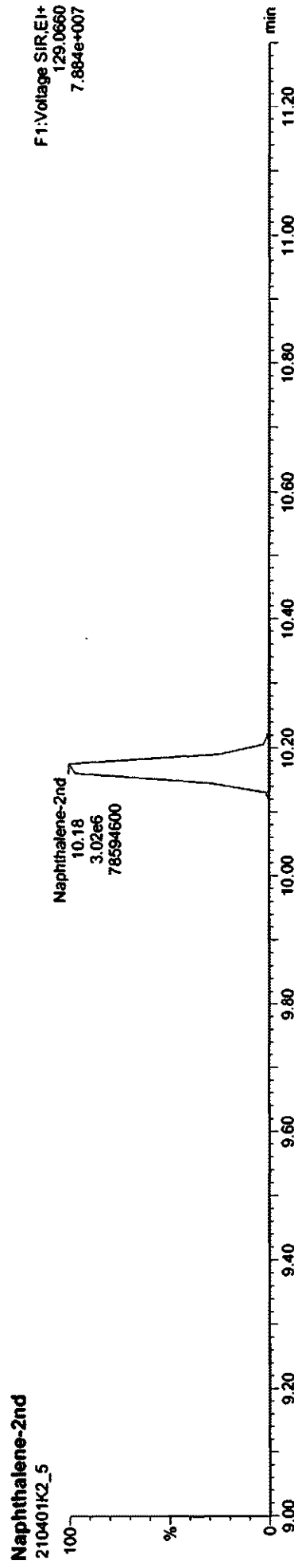
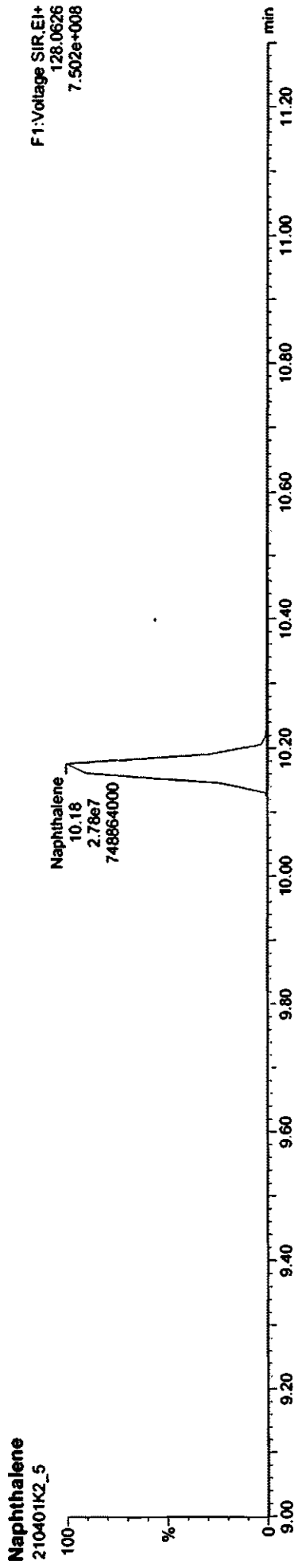
d14-Dibenz(a,h)anthracene:36.92;1.67e6;4410234



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5 429 CS5 20H2514, Description: 429 CS5 20H2514



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

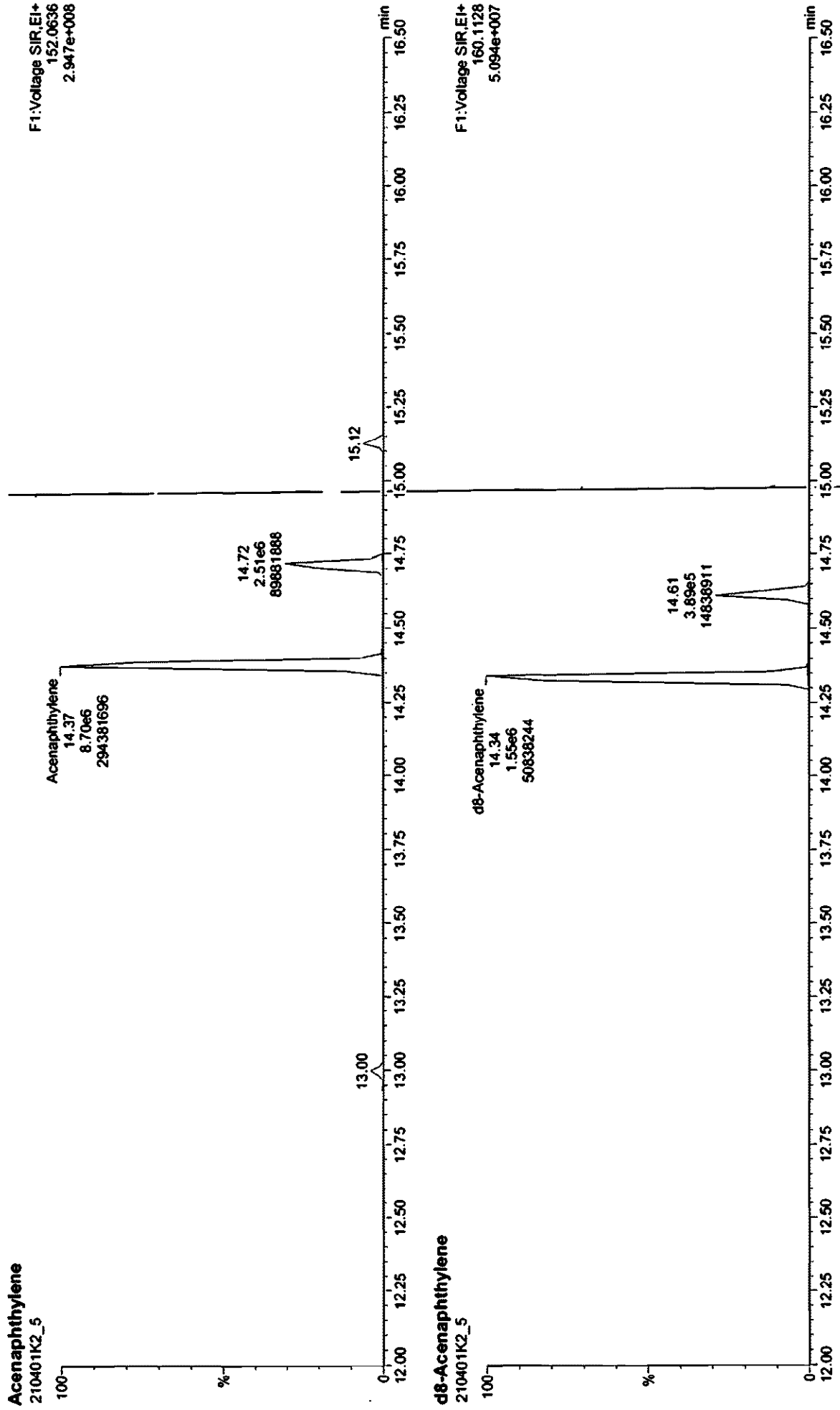
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Dataset: Untitled

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Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5 429 CS5 20H2514, Description: 429 CS5 20H2514

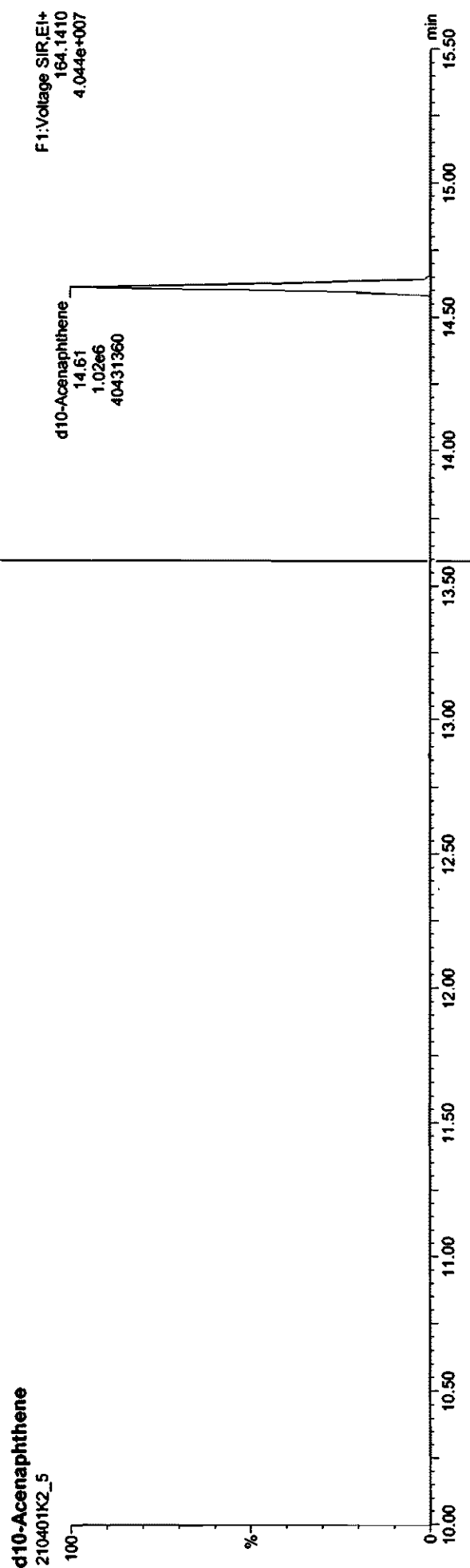
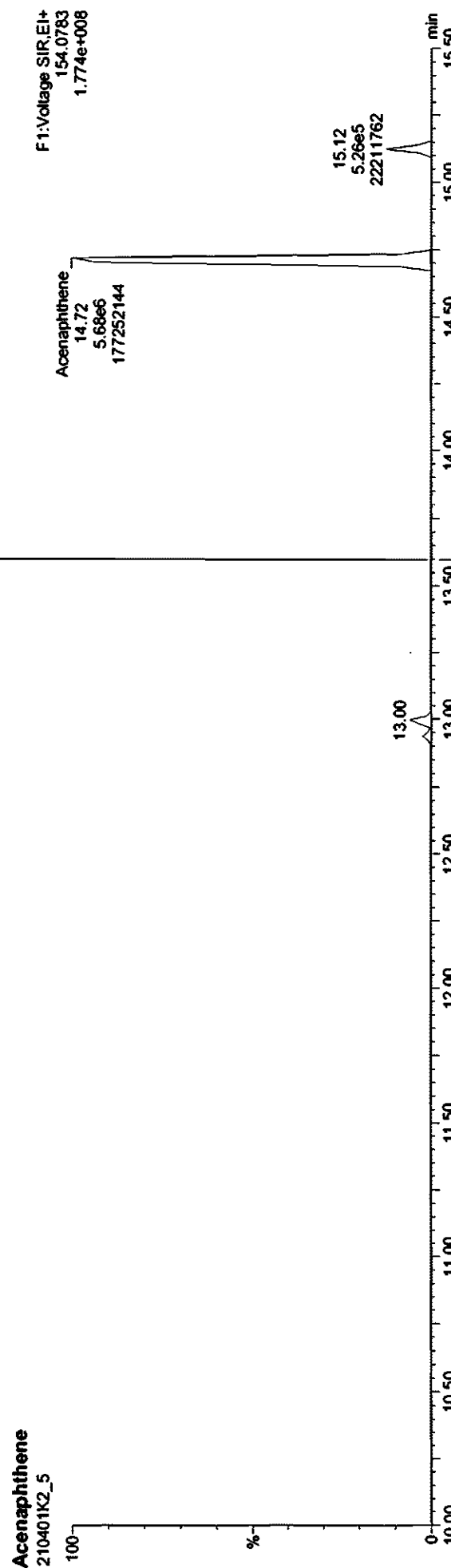


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5 429 CS5 20H2514, Description: 429 CS5 20H2514

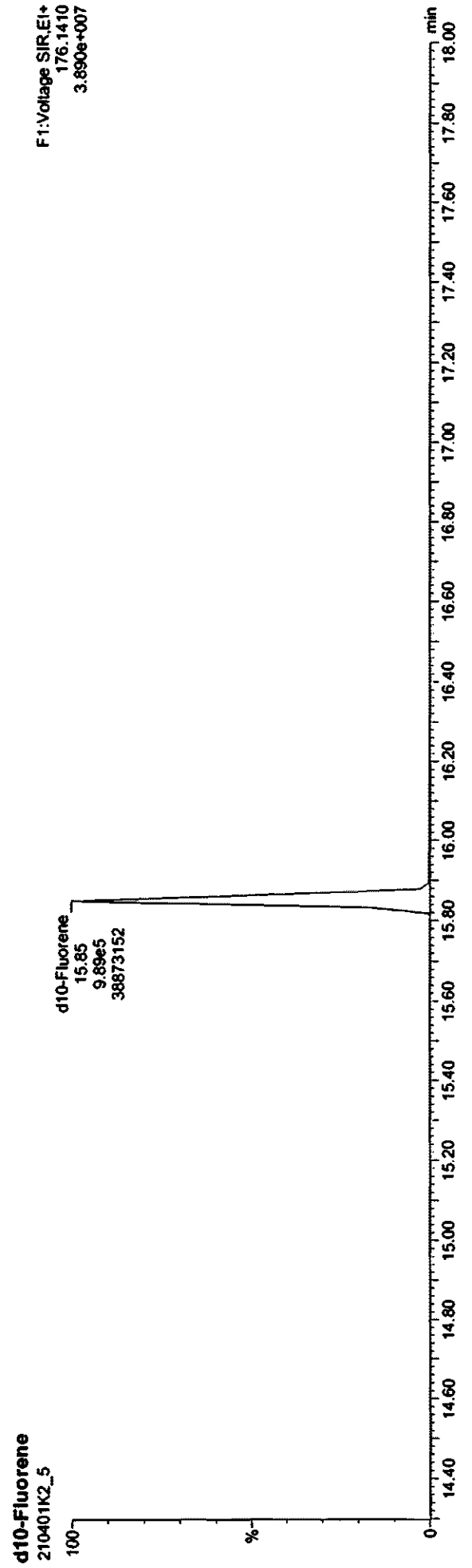
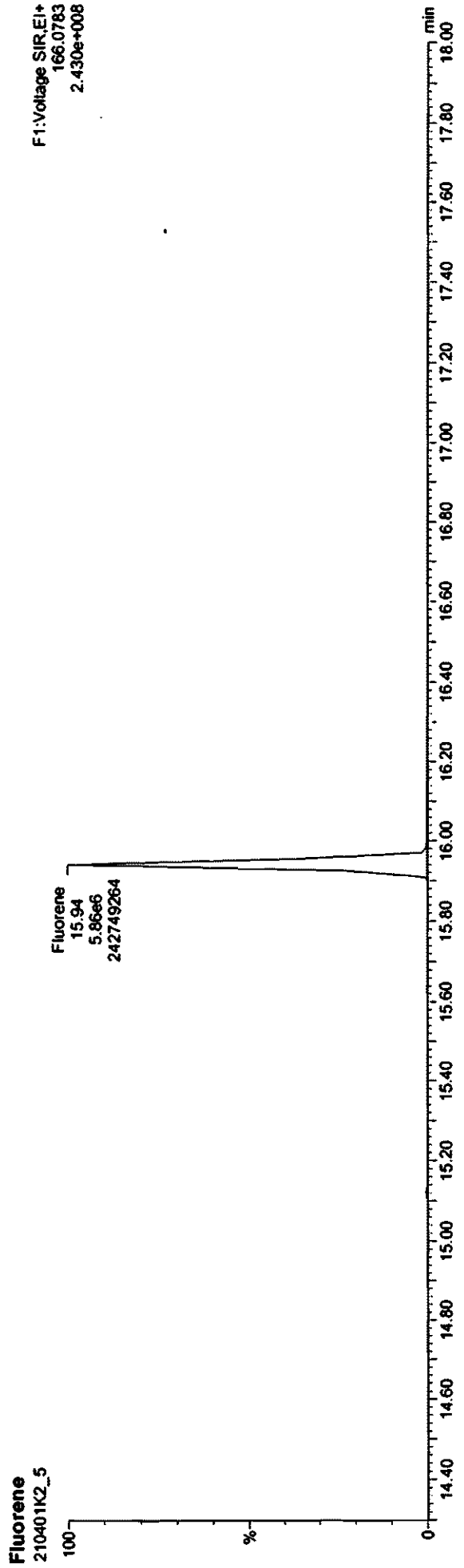


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5 429 CS5 20H2514, Description: 429 CS5 20H2514

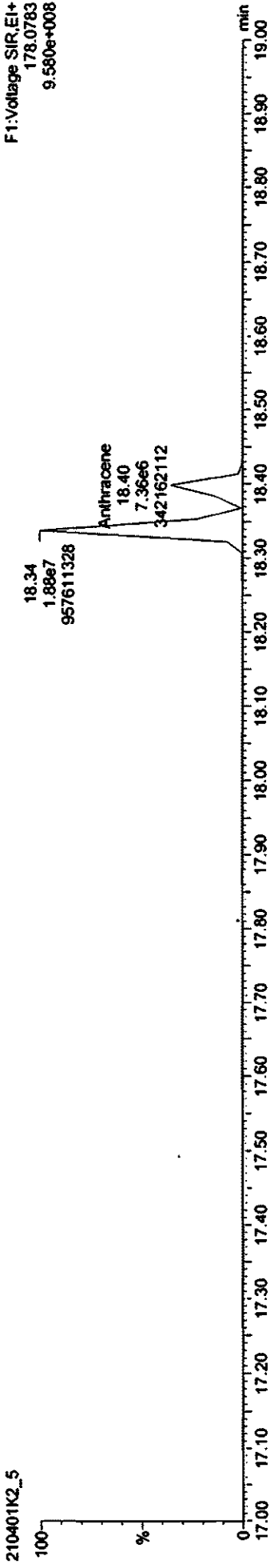


Dataset: Untitled

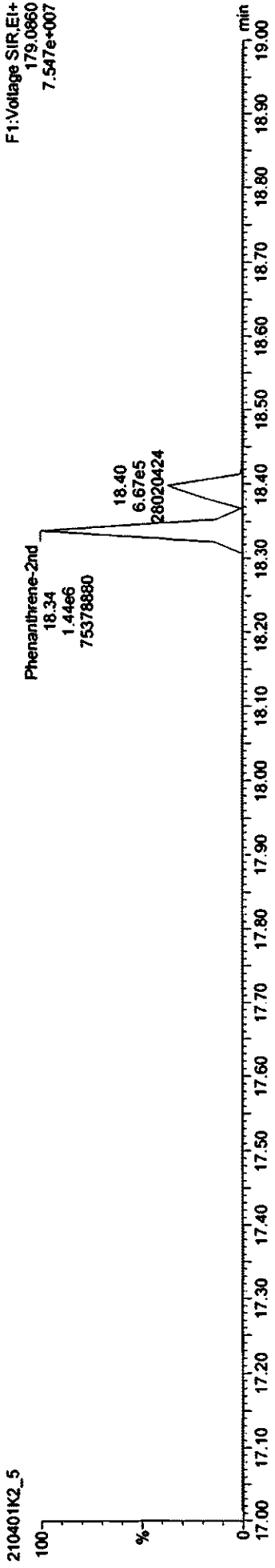
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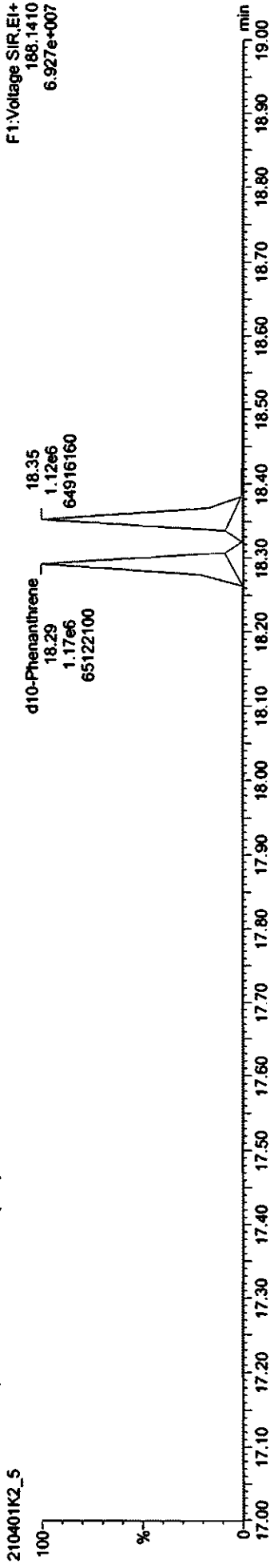
Phenanthrene; Anthracene



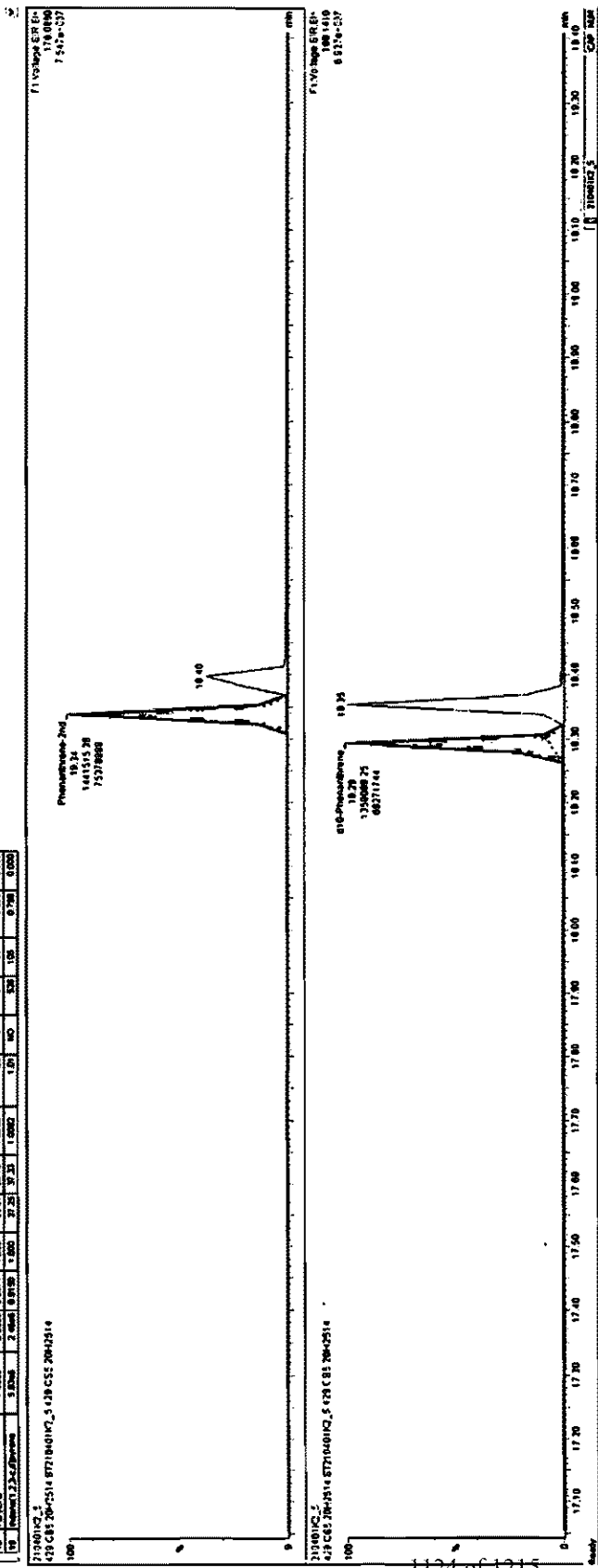
Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)



| Peak | RT | Area | Height | Width | Area% | Height% | Width% | Area% | Height% | Width% |
|------|-------|------------|--------|-------|-------|---------|--------|-------|---------|--------|
| 1 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 2 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 3 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 4 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 5 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 6 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 7 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 8 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 9 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 10 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 11 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 12 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 13 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 14 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 15 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 16 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 17 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 18 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 19 | 18.24 | 1461515.28 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |
| 20 | 18.24 | 75278888 | 1150 | 91.7 | 11.50 | 91.7 | 0.718 | 0.000 | 0.000 | 0.000 |



Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

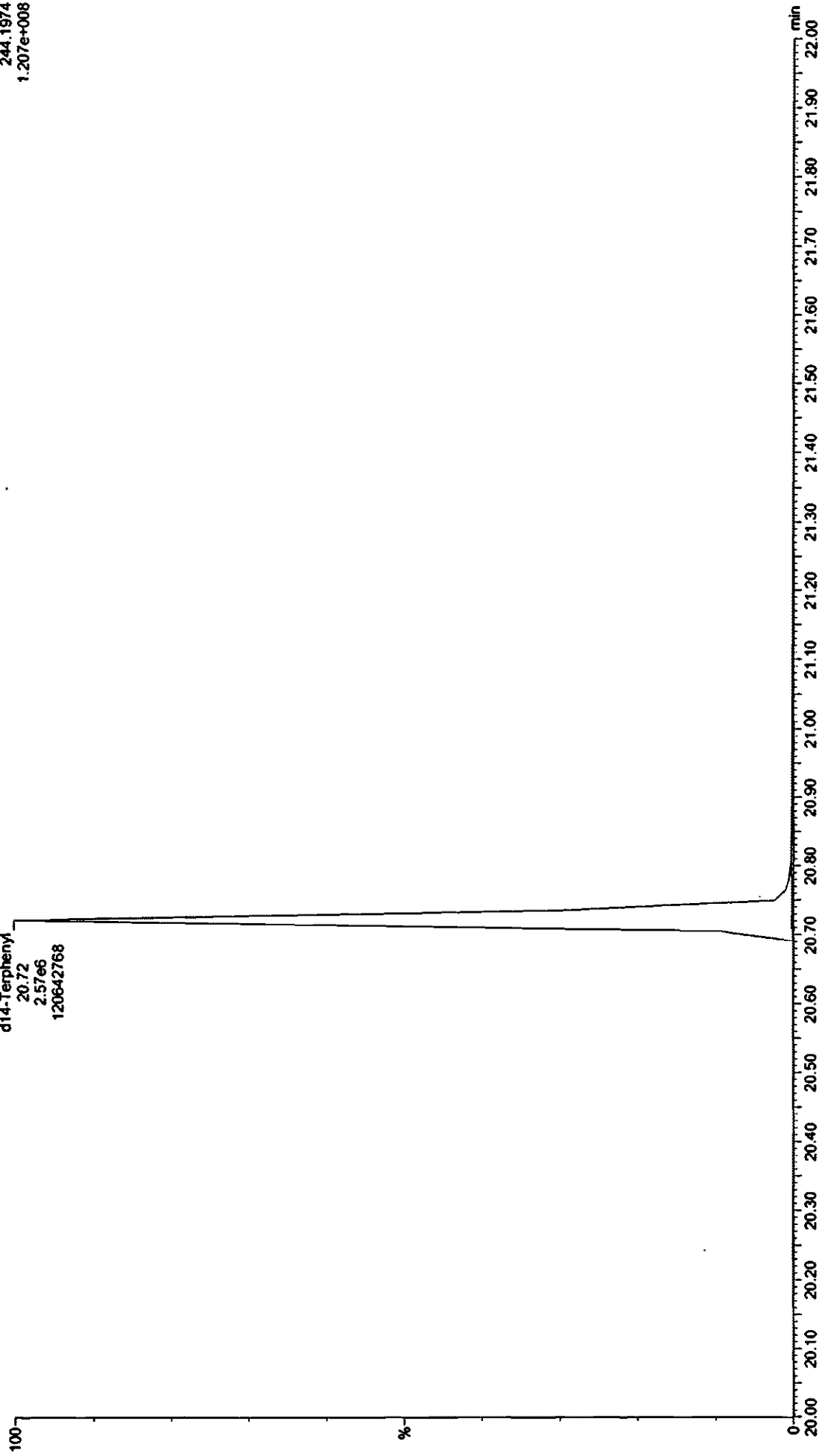
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5 429 CS5 20H2514, Description: 429 CS5 20H2514

d14-Terphenyl (PS)

F2:Voltage SIR.EI+
244.1974
1.207e+008

d14-Terphenyl
20.72
2.57e6
120642768



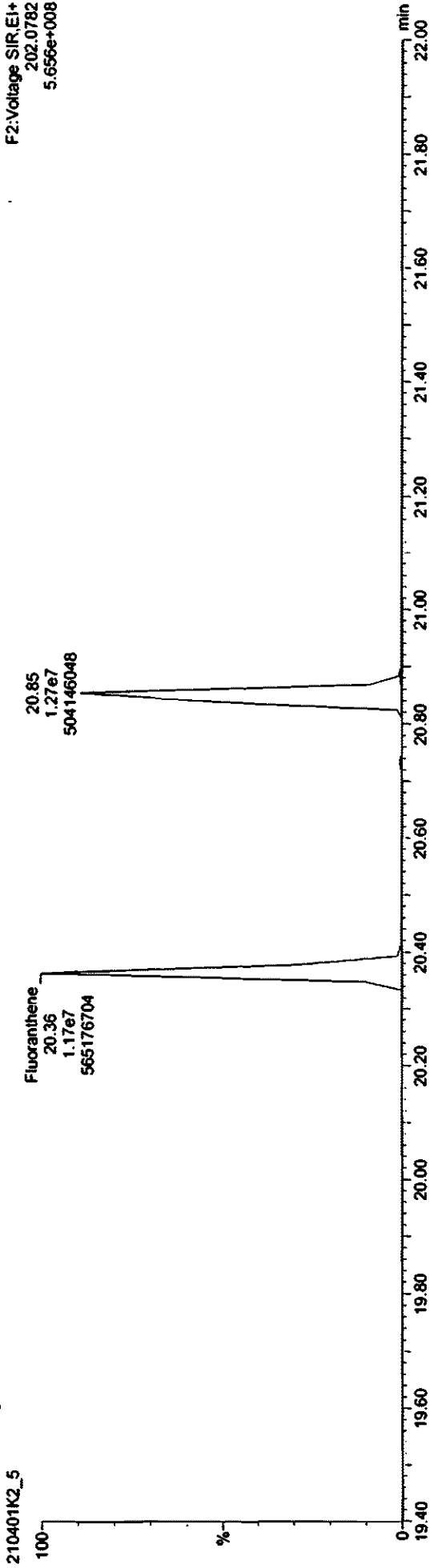
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5 429 CS5 20H2514, Description: 429 CS5 20H2514

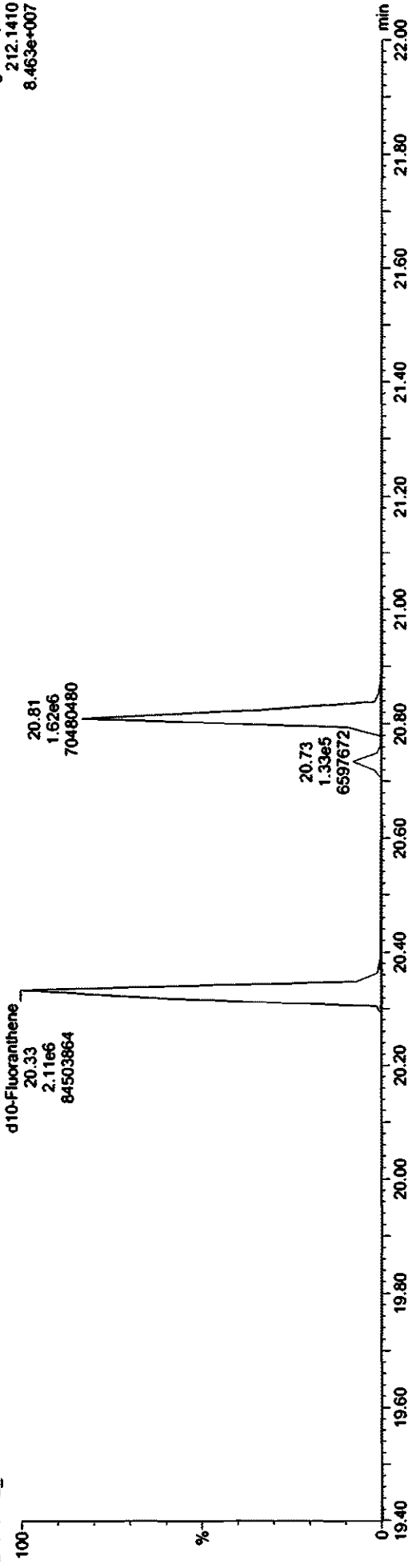
Fluoranthene; Pyrene

F2:Voltage SIR,EI+
202.0782
5.656e+008



d10-Fluoranthene; d10-Pyrene (RS)

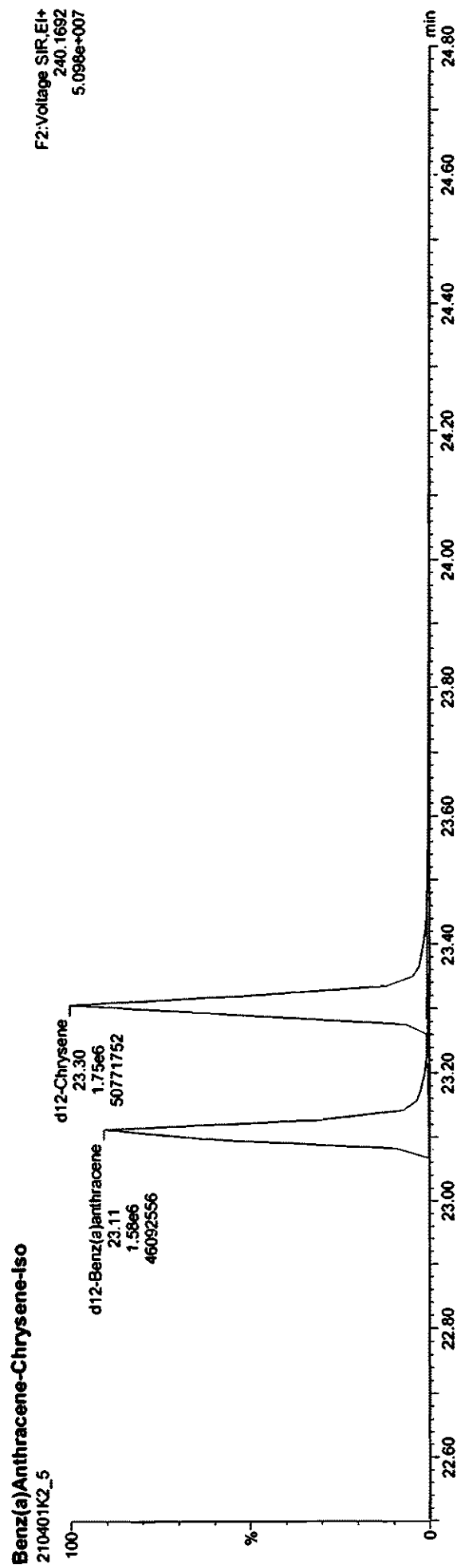
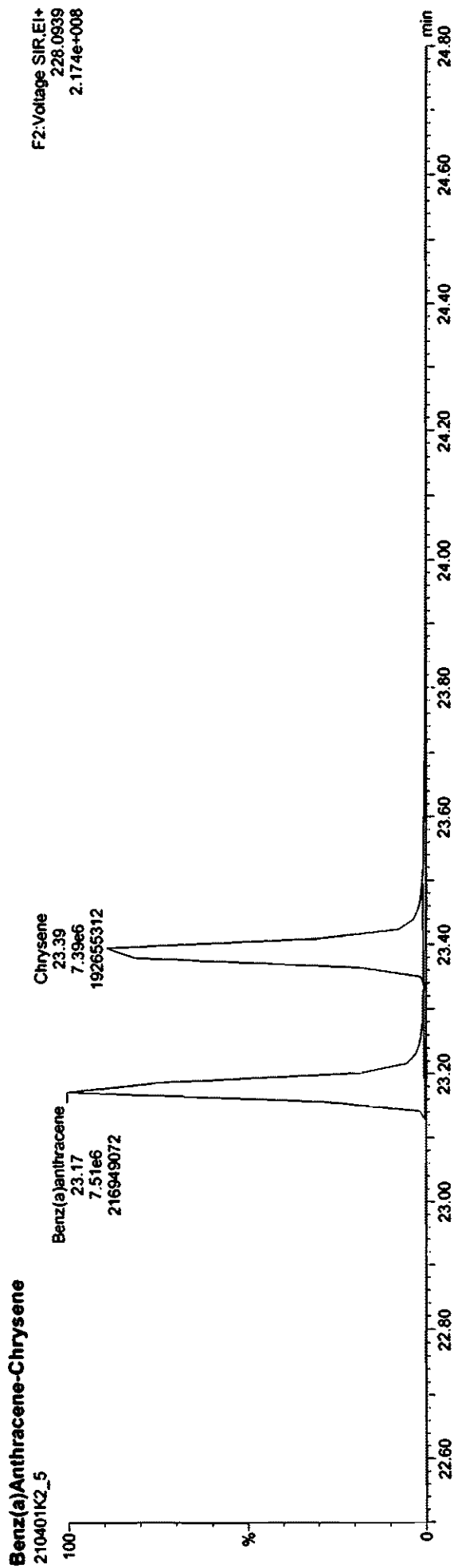
F2:Voltage SIR,EI+
212.1410
8.463e+007



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

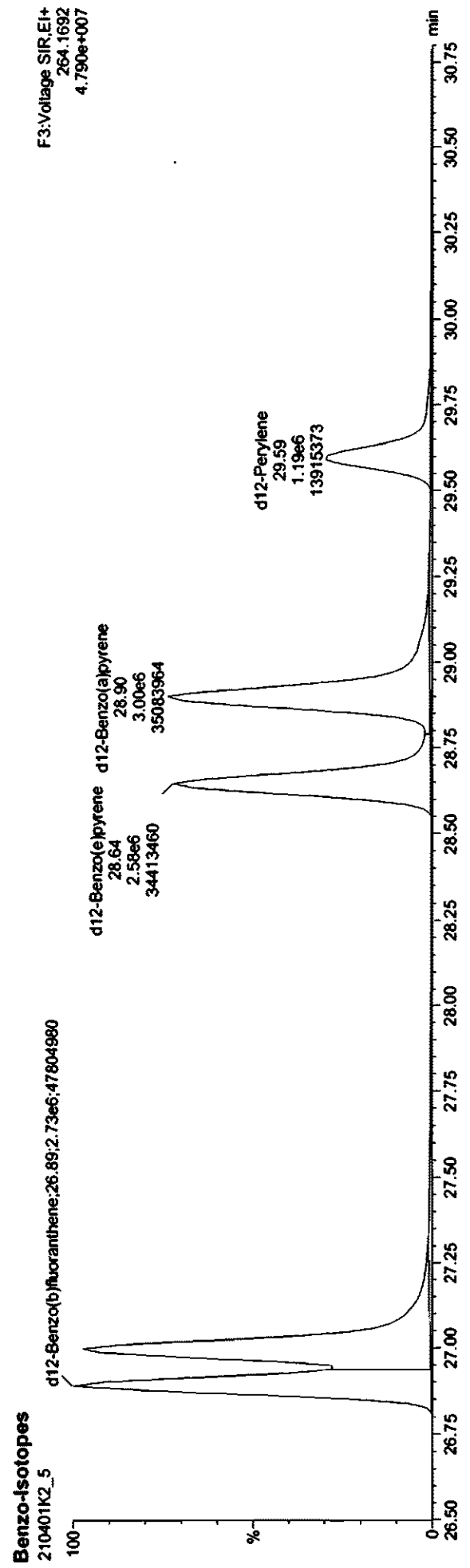
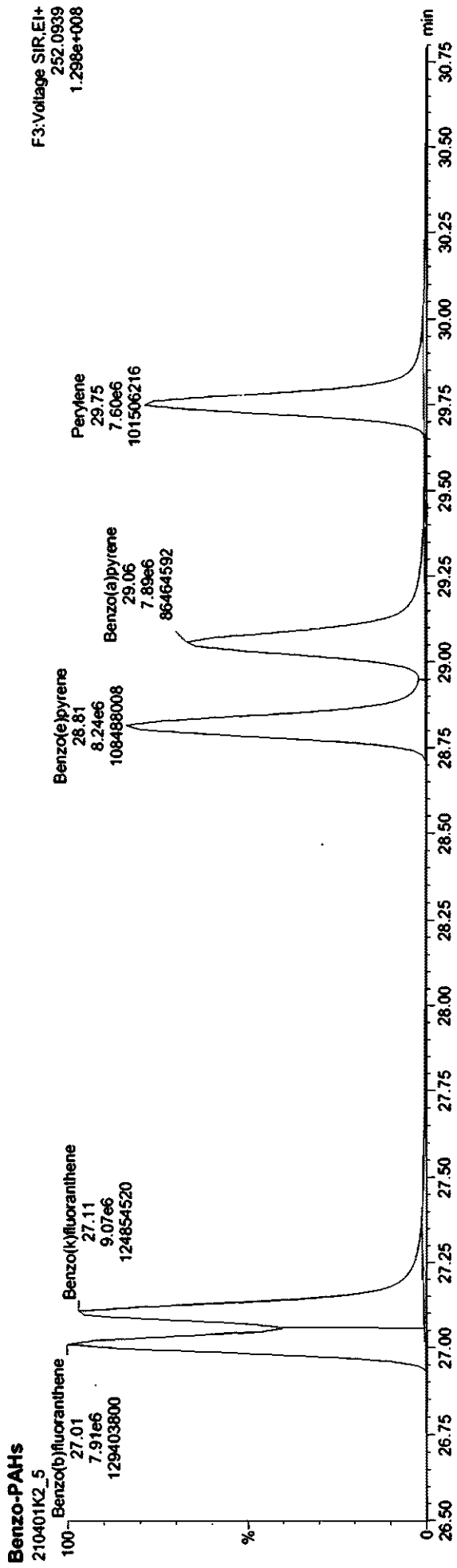
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

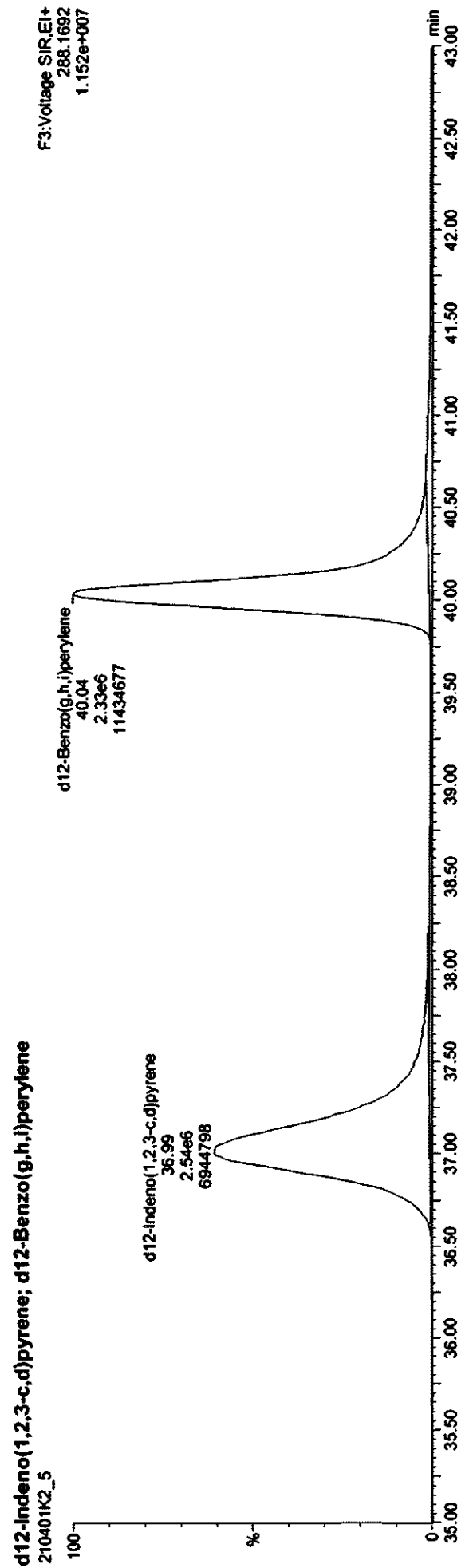
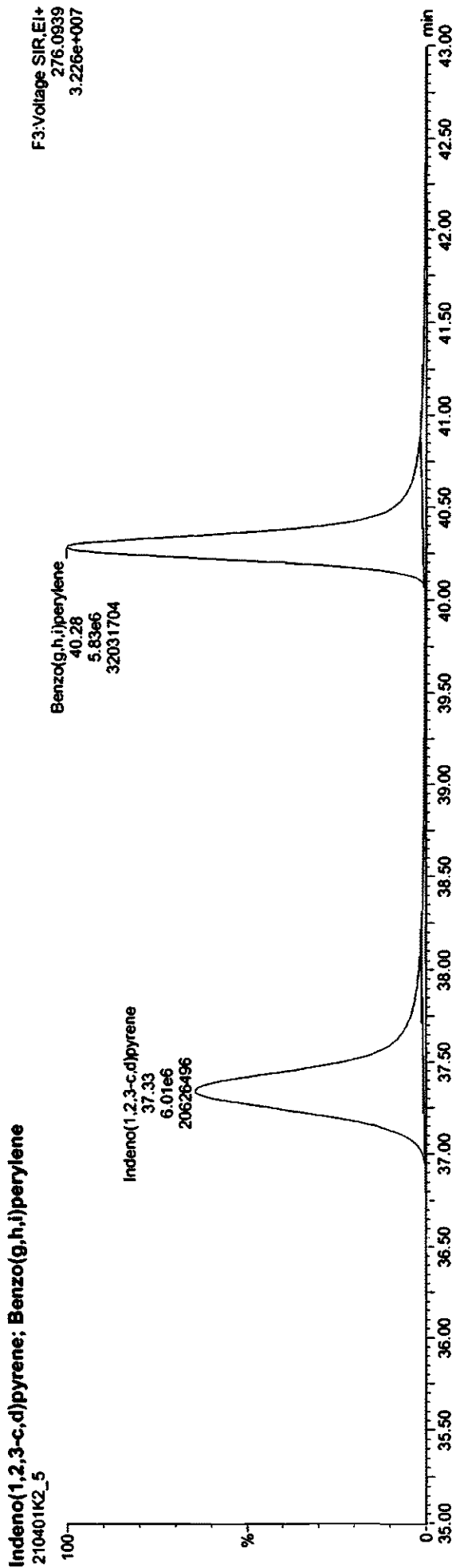
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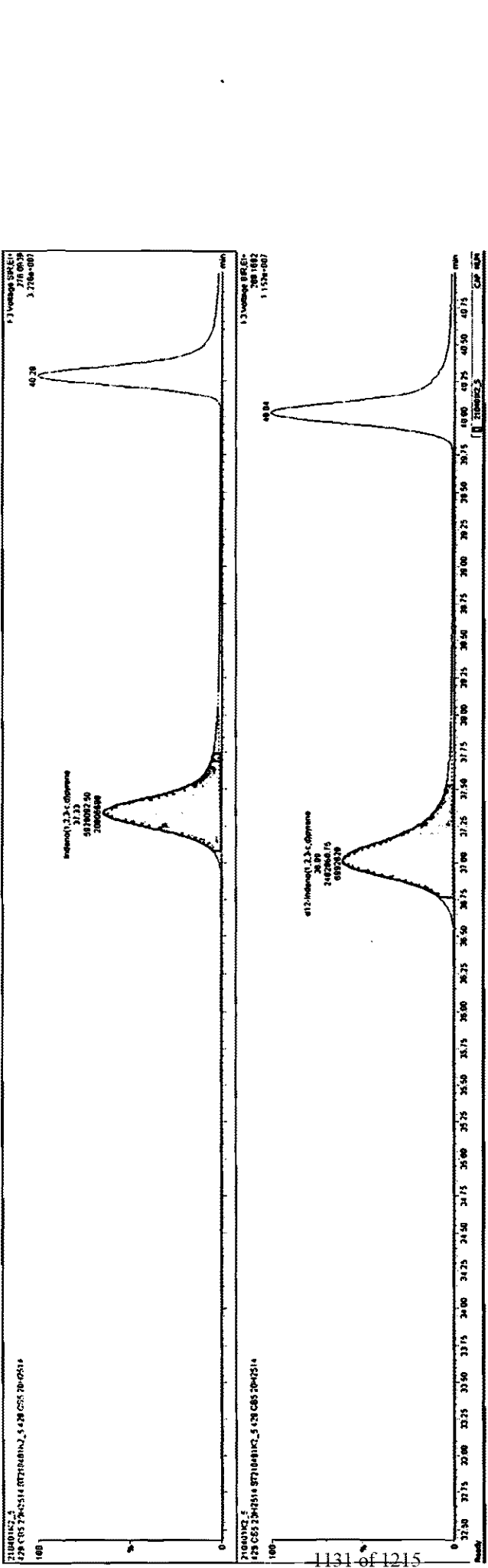
Dataset: Untitled

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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5 429 CS5 20H2514, Description: 429 CS5 20H2514



| RT | Area | Height | Width | Area% | Height% | Width% |
|-----|---------|--------|-------|-------|---------|--------|
| 14 | 811448 | 27.81 | 1.10 | 5.81 | 1.10 | 0.8270 |
| 15 | 3153348 | 27.16 | 1.84 | 5.80 | 1.84 | 0.8584 |
| 16 | 3153348 | 28.81 | 1.84 | 5.80 | 1.84 | 0.8584 |
| 17 | 7287768 | 29.08 | 3.38 | 1.02 | 3.38 | 0.8254 |
| 18 | 7287768 | 29.75 | 3.75 | 0.87 | 3.75 | 0.8255 |
| 19 | 2222222 | 29.25 | 1.52 | 0.81 | 1.52 | 0.8255 |
| 20 | 2222222 | 30.00 | 1.52 | 0.81 | 1.52 | 0.8255 |
| 21 | 1818182 | 29.38 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 22 | 1818182 | 30.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 23 | 1818182 | 30.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 24 | 1818182 | 31.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 25 | 1818182 | 32.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 26 | 1818182 | 33.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 27 | 1818182 | 33.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 28 | 1818182 | 34.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 29 | 1818182 | 35.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 30 | 1818182 | 36.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 31 | 1818182 | 36.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 32 | 1818182 | 37.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 33 | 1818182 | 38.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 34 | 1818182 | 39.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 35 | 1818182 | 39.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 36 | 1818182 | 40.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 37 | 1818182 | 41.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 38 | 1818182 | 42.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 39 | 1818182 | 42.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 40 | 1818182 | 43.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 41 | 1818182 | 44.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 42 | 1818182 | 45.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 43 | 1818182 | 45.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 44 | 1818182 | 46.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 45 | 1818182 | 47.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 46 | 1818182 | 48.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 47 | 1818182 | 48.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 48 | 1818182 | 49.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 49 | 1818182 | 50.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 50 | 1818182 | 51.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 51 | 1818182 | 51.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 52 | 1818182 | 52.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 53 | 1818182 | 53.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 54 | 1818182 | 54.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 55 | 1818182 | 54.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 56 | 1818182 | 55.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 57 | 1818182 | 56.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 58 | 1818182 | 57.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 59 | 1818182 | 57.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 60 | 1818182 | 58.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 61 | 1818182 | 59.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 62 | 1818182 | 60.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 63 | 1818182 | 60.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 64 | 1818182 | 61.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 65 | 1818182 | 62.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 66 | 1818182 | 63.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 67 | 1818182 | 63.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 68 | 1818182 | 64.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 69 | 1818182 | 65.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 70 | 1818182 | 66.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 71 | 1818182 | 66.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 72 | 1818182 | 67.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 73 | 1818182 | 68.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 74 | 1818182 | 69.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 75 | 1818182 | 69.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 76 | 1818182 | 70.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 77 | 1818182 | 71.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 78 | 1818182 | 72.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 79 | 1818182 | 72.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 80 | 1818182 | 73.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 81 | 1818182 | 74.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 82 | 1818182 | 75.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 83 | 1818182 | 75.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 84 | 1818182 | 76.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 85 | 1818182 | 77.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 86 | 1818182 | 78.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 87 | 1818182 | 78.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 88 | 1818182 | 79.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 89 | 1818182 | 80.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 90 | 1818182 | 81.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 91 | 1818182 | 81.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 92 | 1818182 | 82.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 93 | 1818182 | 83.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 94 | 1818182 | 84.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 95 | 1818182 | 84.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 96 | 1818182 | 85.50 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 97 | 1818182 | 86.25 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 98 | 1818182 | 87.00 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 99 | 1818182 | 87.75 | 0.81 | 0.81 | 0.81 | 0.8254 |
| 100 | 1818182 | 88.50 | 0.81 | 0.81 | 0.81 | 0.8254 |



Dataset: Untitled

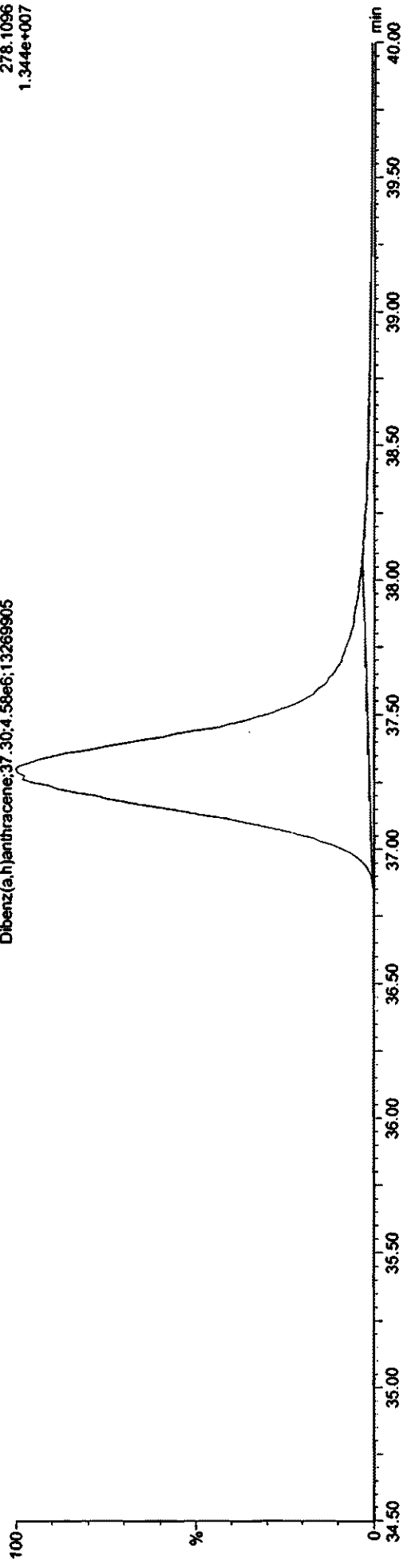
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_5, Date: 01-Apr-2021, Time: 12:40:15, ID: ST210401K2_5_429 CS5 20H2514, Description: 429 CS5 20H2514

Dibenz(a,h)anthracene

F3:Voltage SIR,EI+
278.1096
1.344e+007

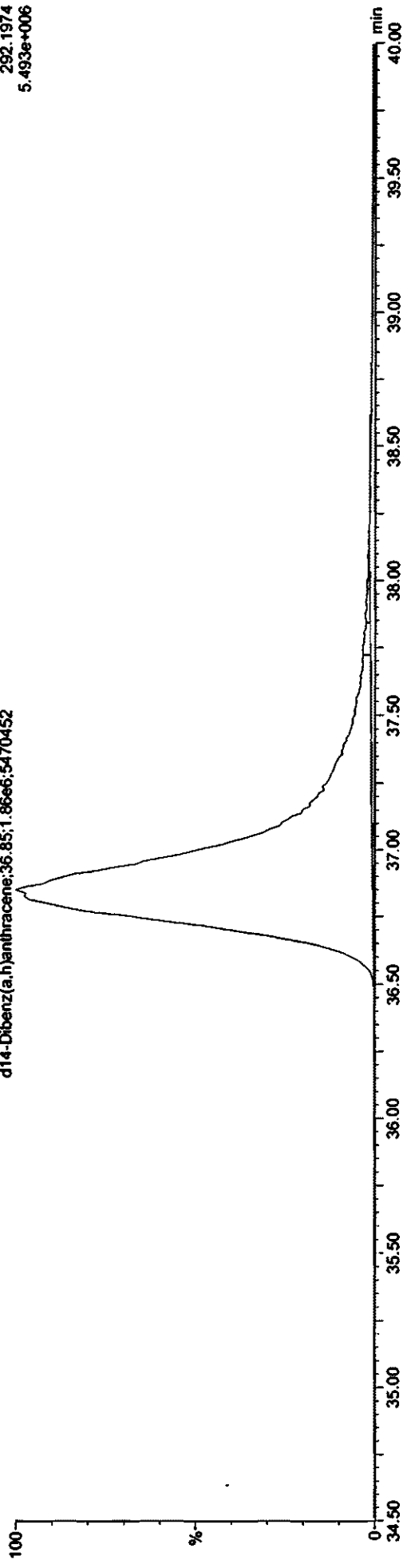
Dibenz(a,h)anthracene;37.30;4.58e6;13269905



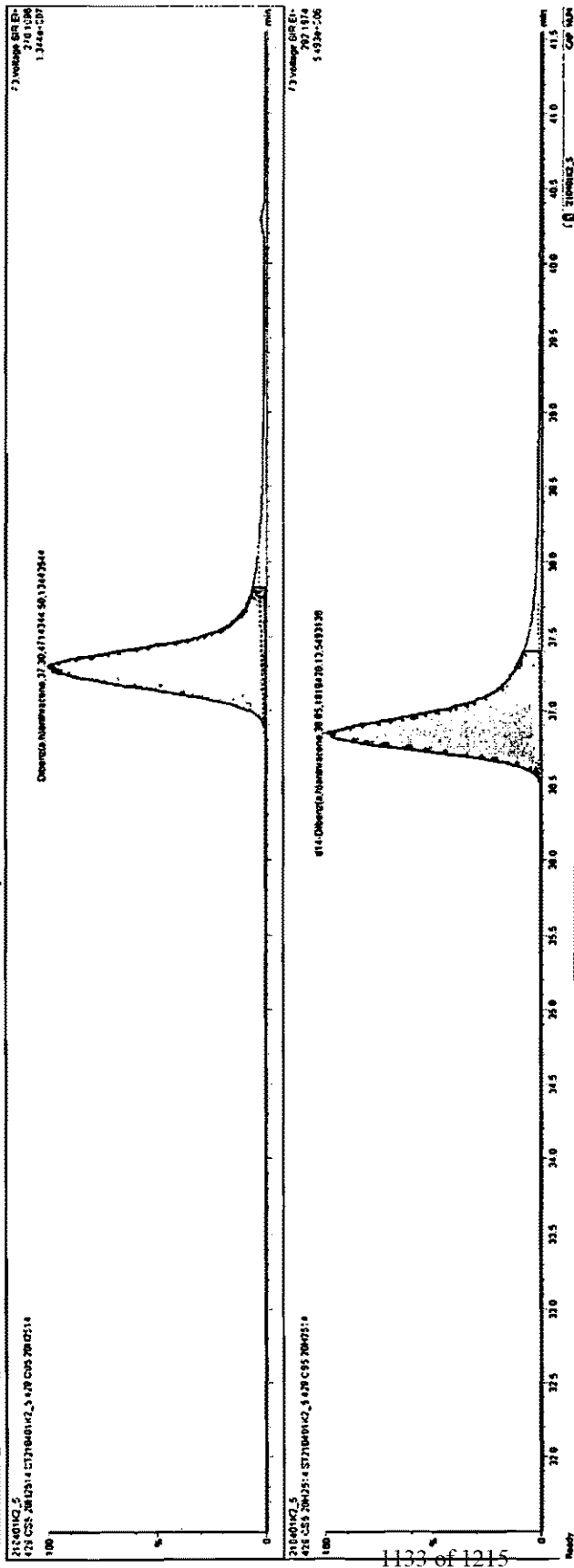
d14-Dibenz(a,h)anthracene

F3:Voltage SIR,EI+
292.1974
5.493e+006

d14-Dibenz(a,h)anthracene;36.85;1.86e6;5470452



| RT | Area | Height | Area% | Height% |
|----|-------|--------|-------|---------|
| 14 | 27804 | 291000 | 1.6 | 1.0 |
| 15 | 27804 | 291000 | 1.6 | 1.0 |
| 16 | 27804 | 291000 | 1.6 | 1.0 |
| 17 | 27804 | 291000 | 1.6 | 1.0 |
| 18 | 27804 | 291000 | 1.6 | 1.0 |
| 19 | 27804 | 291000 | 1.6 | 1.0 |
| 20 | 27804 | 291000 | 1.6 | 1.0 |
| 21 | 27804 | 291000 | 1.6 | 1.0 |
| 22 | 27804 | 291000 | 1.6 | 1.0 |
| 23 | 27804 | 291000 | 1.6 | 1.0 |
| 24 | 27804 | 291000 | 1.6 | 1.0 |
| 25 | 27804 | 291000 | 1.6 | 1.0 |
| 26 | 27804 | 291000 | 1.6 | 1.0 |

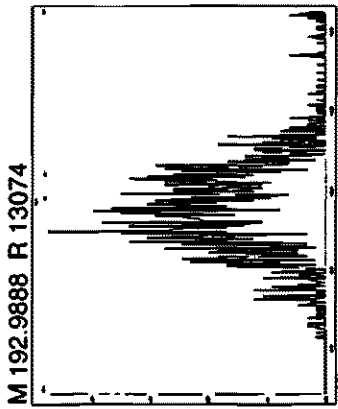
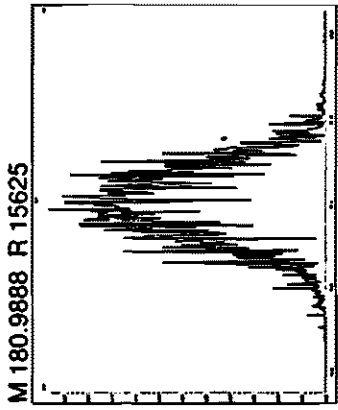
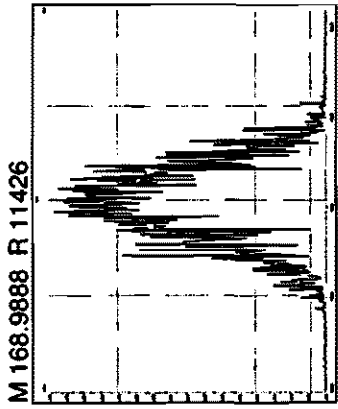
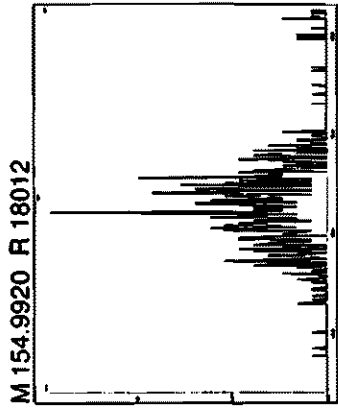
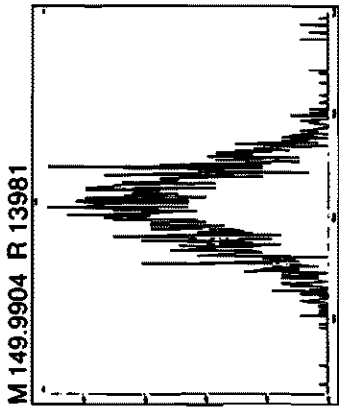
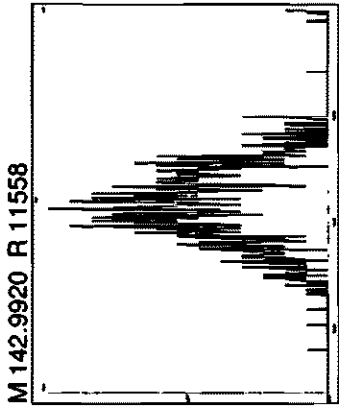
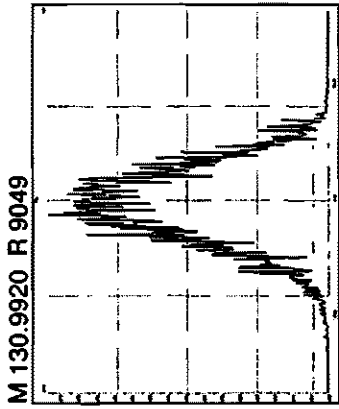
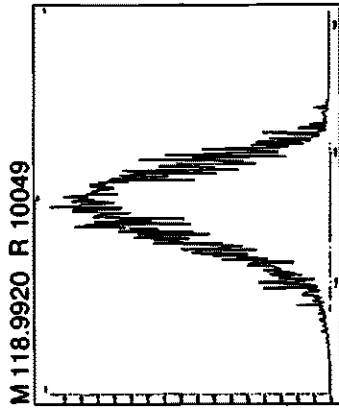


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: PAH_ZB50.exp Reference: Plk.ref Function: 1 @ 250 (ppm)

Printed: Thursday, April 01, 2021 09:33:14 Pacific Daylight Time



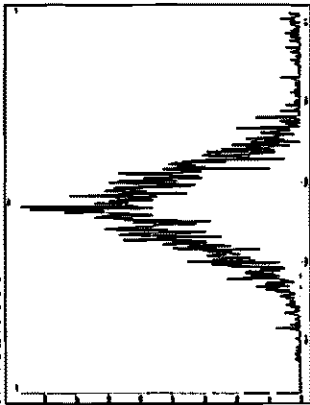
Experiment Calibration Report

MassLynx 4.1 SCN815

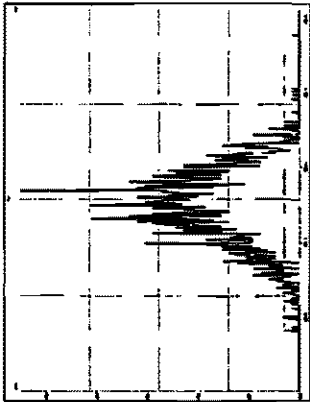
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Printed: Thursday, April 01, 2021 09:33:41 Pacific Daylight Time

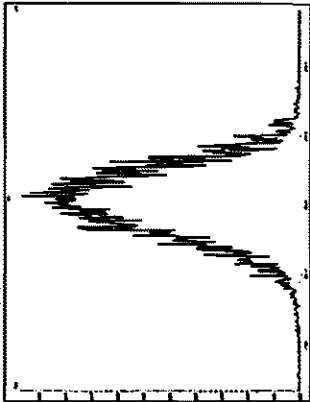
M 192.9888 R 10204



M 204.9888 R 12902



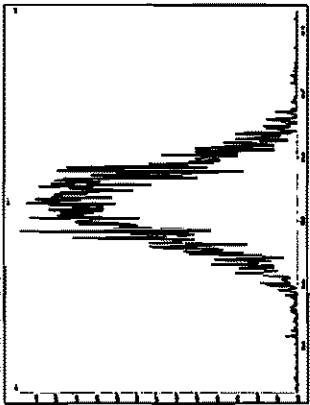
M 218.9856 R 10414



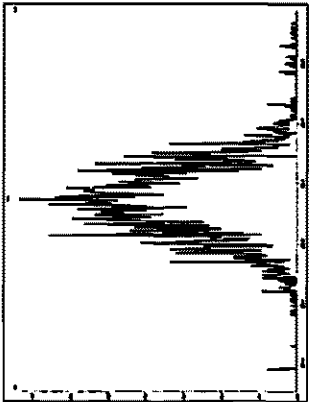
M 230.9856 R 10582



M 242.9856 R 10752



M 254.9856 R 14927

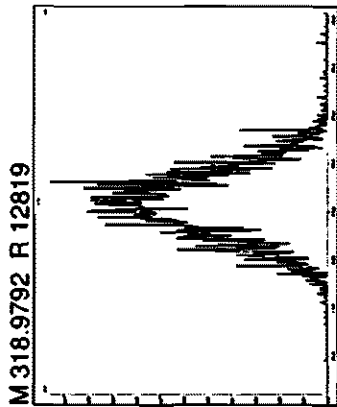
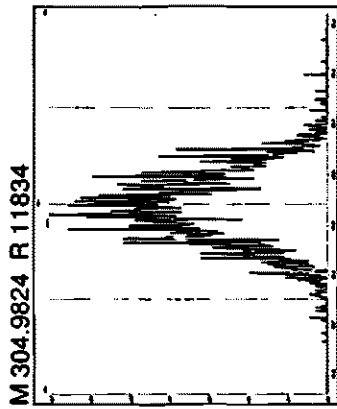
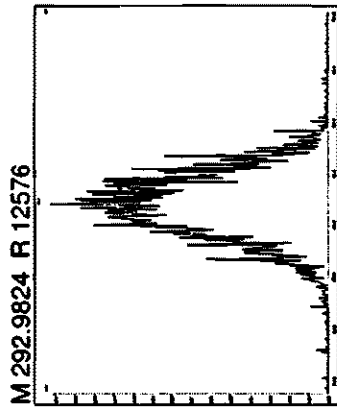
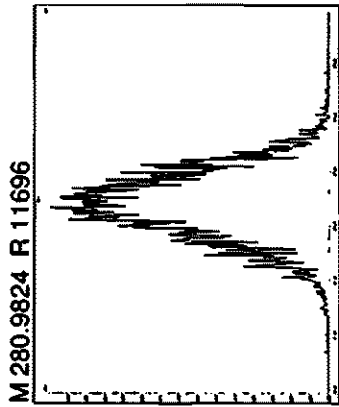
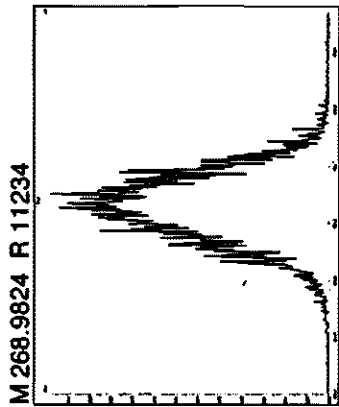
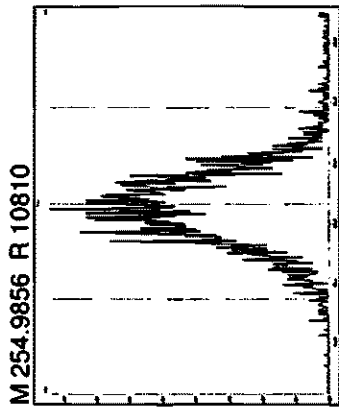
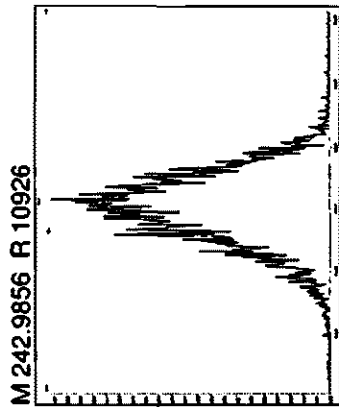


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: PAH_ZB50.exp Reference: Pfk.ref Function: 3 @ 250 (ppm)

Printed: Thursday, April 01, 2021 09:34:00 Pacific Daylight Time



Quantify Sample Summary Report
Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-7.qld

Last Altered: Thursday, April 01, 2021 16:20:29 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:21:03 Pacific Daylight Time

4.1.2021
24/04/21
NDS not present in SS

Method: Untitled 01 Apr 2021 13:23:22

Calibration: U:\VG11.PRO\CurveDB\50_PAHvg11-4-1-21.cdb 01 Apr 2021 16:11:11

Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515

| 1# | Name | Resp | IS | Resp | RRF | wvol | Pred.RT | RT | Pred.RT | RRT | Check R | Conc. | %Rec | DL |
|----|--------------------------|--------|--------|--------|-------|-------|---------|-------|---------|-------|---------|-------|--------|---------|
| 1 | Naphthalene | 2.75e6 | 2.46e6 | 1.16 | 1.000 | 1.000 | 10.17 | 10.16 | 1.006 | 1.004 | NO | 96.4 | 99.780 | 0.0977 |
| 2 | Naphthalene-2nd | 2.98e5 | 2.46e6 | 0.128 | 1.000 | 1.000 | 10.17 | 10.16 | 1.006 | 1.004 | NO | 94.8 | | 0.880 |
| 3 | 2-Methylnaphthalene | 1.63e6 | 1.12e6 | 1.38 | 1.000 | 1.000 | 11.61 | | 0.794 | | NO | | | 0.0589 |
| 4 | Acenaphthylene | 1.40e6 | 1.74e6 | 1.12 | 1.000 | 1.000 | 14.38 | 14.37 | 1.003 | 1.002 | NO | 83.9 | | 0.0803 |
| 5 | Acenaphthene | 1.20e6 | 1.12e6 | 1.10 | 1.000 | 1.000 | 14.70 | 14.72 | 1.006 | 1.007 | NO | 113 | | 0.0982 |
| 6 | Fluorene | 1.64e6 | 1.08e6 | 1.15 | 1.000 | 1.000 | 15.94 | 15.94 | 1.006 | 1.006 | NO | 96.5 | | 0.0741 |
| 7 | Phenanthrene | 1.30e5 | 1.53e6 | 1.19 | 1.000 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 90.4 | | 0.0345 |
| 8 | Phenanthrene-2nd | 1.56e6 | 1.53e6 | 0.9925 | 1.000 | 1.000 | 18.33 | 18.34 | 1.002 | 1.002 | NO | 92.0 | | 0.389 |
| 9 | Anthracene | 2.50e6 | 1.53e6 | 1.09 | 1.000 | 1.000 | 18.39 | 18.40 | 1.005 | 1.006 | NO | 93.4 | | 0.0376 |
| 10 | Fluoranthene | 2.67e6 | 2.77e6 | 1.10 | 1.000 | 1.000 | 20.38 | 20.36 | 1.002 | 1.001 | NO | 82.2 | | 0.0171 |
| 11 | Pyrene | 1.67e6 | 2.77e6 | 1.20 | 1.000 | 1.000 | 20.87 | 20.85 | 1.026 | 1.026 | NO | 80.5 | | 0.0157 |
| 12 | Benz(a)anthracene | 1.63e6 | 1.88e6 | 0.961 | 1.000 | 1.000 | 23.19 | 23.20 | 1.003 | 1.003 | NO | 92.6 | | 0.0338 |
| 13 | Chrysene | 1.92e6 | 2.17e6 | 0.852 | 1.000 | 1.000 | 23.40 | 23.41 | 1.003 | 1.004 | NO | 87.9 | | 0.0376 |
| 14 | Benzo(b)fluoranthene | 1.60e6 | 3.75e6 | 1.10 | 1.000 | 1.000 | 27.06 | 27.04 | 1.005 | 1.005 | NO | 92.6 | | 0.0769 |
| 15 | Benzo(k)fluoranthene | 1.87e6 | 4.48e6 | 1.04 | 1.000 | 1.000 | 27.15 | 27.13 | 1.004 | 1.004 | NO | 68.8 | | 0.0808 |
| 16 | Benzo(e)pyrene | 1.27e6 | 4.48e6 | 0.911 | 1.000 | 1.000 | 27.57 | | 1.020 | | YES | | | 0.0920 |
| 17 | Benzo(a)pyrene | 1.27e6 | 3.87e6 | 1.02 | 1.000 | 1.000 | 29.07 | 29.04 | 1.006 | 1.005 | NO | 95.2 | | 0.0932 |
| 18 | Perylene | 1.27e6 | 3.87e6 | 0.987 | 1.000 | 1.000 | 29.81 | | 1.031 | | NO | | | 0.0958 |
| 19 | Indeno(1,2,3-c,d)pyrene | 1.27e6 | 3.04e6 | 0.915 | 1.000 | 1.000 | 36.92 | 36.93 | 1.007 | 1.007 | NO | 91.3 | | 0.248 |
| 20 | Benzo(g,h,i)perylene | 1.21e6 | 3.13e6 | 0.940 | 1.000 | 1.000 | 40.52 | 40.47 | 1.009 | 1.008 | NO | 82.6 | | 0.306 |
| 21 | Dibenz(a,h)anthracene | 1.02e6 | 2.40e6 | 0.948 | 1.000 | 1.000 | 36.83 | 36.78 | 1.011 | 1.010 | NO | 89.6 | | 0.297 |
| 22 | d8-Naphthalene | 2.46e6 | 1.77e6 | 1.20 | 1.000 | 1.000 | 10.12 | 10.12 | 0.848 | 0.848 | NO | 115 | | 0.0135 |
| 23 | d8-Acenaphthylene | 1.74e6 | 1.77e6 | 0.905 | 1.000 | 1.000 | 14.33 | 14.34 | 1.201 | 1.202 | NO | 109 | | 0.0165 |
| 24 | d10-Acenaphthene | 1.12e6 | 1.77e6 | 0.594 | 1.000 | 1.000 | 14.62 | 14.61 | 1.226 | 1.225 | NO | 107 | | 0.0142 |
| 25 | d10-Fluorene | 1.08e6 | 1.77e6 | 0.563 | 1.000 | 1.000 | 15.86 | 15.85 | 1.330 | 1.329 | NO | 108 | | 0.0125 |
| 26 | d10-Phenanthrene | 1.53e6 | 1.77e6 | 0.735 | 1.000 | 1.000 | 18.28 | 18.29 | 1.533 | 1.534 | NO | 117 | | 0.0100 |
| 27 | d10-Fluoranthene | 2.77e6 | 1.77e6 | 1.29 | 1.000 | 1.000 | 20.33 | 20.33 | 0.977 | 0.977 | NO | 122 | | 0.00908 |
| 28 | d12-Benz(a)anthracene | 1.88e6 | 1.77e6 | 0.900 | 1.000 | 1.000 | 23.11 | 23.13 | 1.110 | 1.111 | NO | 118 | | 0.0159 |
| 29 | d12-Chrysene | 2.17e6 | 1.77e6 | 1.02 | 1.000 | 1.000 | 23.30 | 23.32 | 1.120 | 1.121 | NO | 120 | | 0.0140 |
| 30 | d12-Benzo(b)fluoranthene | 3.75e6 | 1.26e6 | 1.18 | 1.000 | 1.000 | 26.83 | 26.92 | 0.907 | 0.911 | NO | 251 | | 0.107 |
| 31 | d12-Benzo(k)fluoranthene | 4.48e6 | 1.26e6 | 1.50 | 1.000 | 1.000 | 26.94 | 27.03 | 0.911 | 0.914 | NO | 236 | | 0.0841 |

Quantify Sample Summary Report MassLynx 4.1 SCN815
 Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\210401K2\210401K2-7.qld

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 Printed: Thursday, April 01, 2021 16:21:03 Pacific Daylight Time

Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515

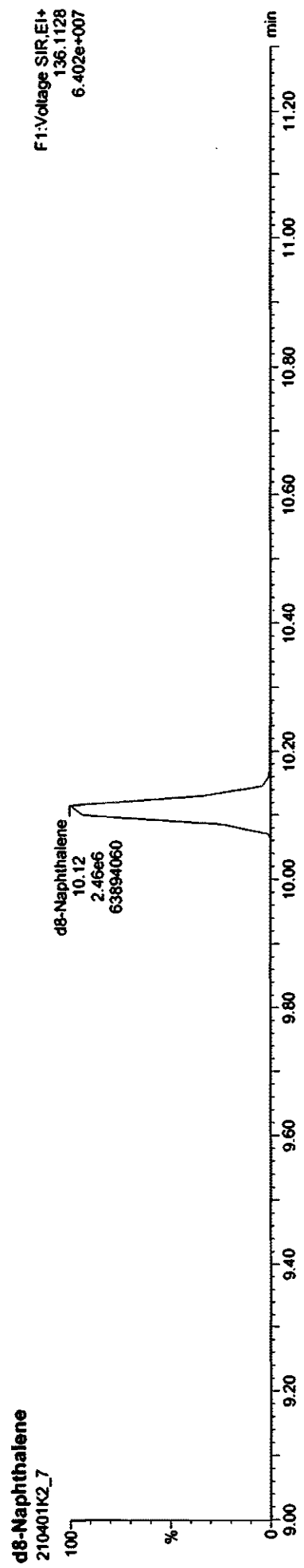
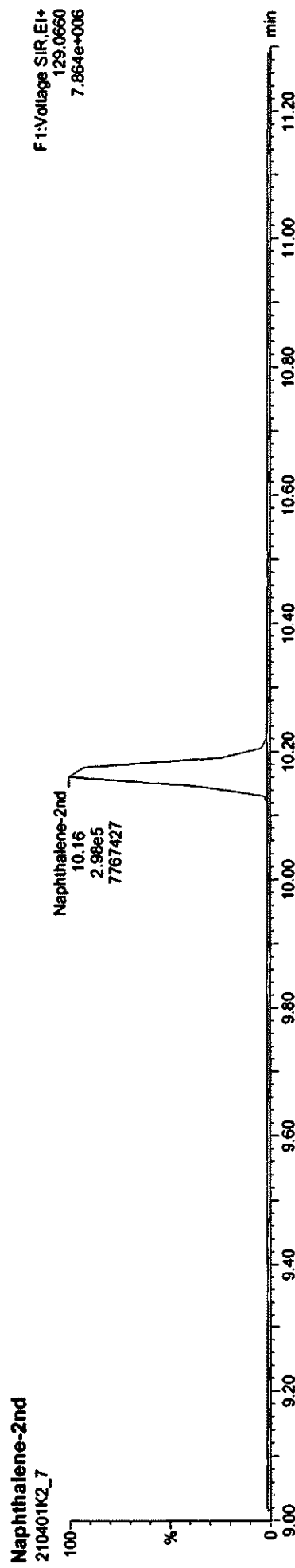
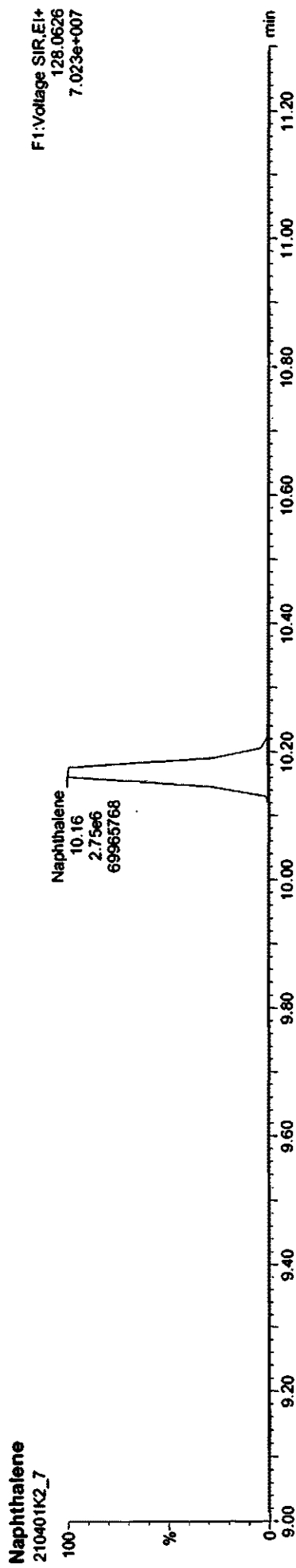
| L# | Name | Resp | IS Resp | RRF | wtdvd | Pred.RT | RT | Pred.RT | RRT | Check R | Conc | %Rec | DL |
|----|-----------------------------|--------|---------|-------|-------|---------|-------|---------|-------|---------|------|------|---------|
| 32 | d12-Benzo(a)pyrene | 3.87e6 | 1.26e6 | 1.24 | 1.000 | 28.83 | 28.90 | 0.975 | 0.977 | NO | 248 | 124 | 0.102 |
| 33 | d12-Indeno(1,2,3-c,d)pyrene | 3.04e6 | 1.26e6 | 1.02 | 1.000 | 36.87 | 36.67 | 1.247 | 1.240 | NO | 236 | 118 | 0.128 |
| 34 | d12-Benzo(g,h,i)perylene | 3.13e6 | 1.26e6 | 1.00 | 1.000 | 40.28 | 40.14 | 1.362 | 1.358 | NO | 247 | 123 | 0.130 |
| 35 | d14-Dibenz(a,h)anthracene | 2.40e6 | 1.26e6 | 0.765 | 1.000 | 36.64 | 36.42 | 1.239 | 1.232 | NO | 249 | 124 | 0.161 |
| 36 | d10-Anthracene | 1.50e6 | 1.26e6 | 0.989 | 1.000 | 18.37 | 18.35 | 1.541 | 1.539 | NO | 120 | 120 | 0.0304 |
| 37 | d14-Terphenyl | 2.65e6 | 2.77e6 | 0.576 | 1.000 | 20.70 | 20.72 | 1.018 | 1.019 | NO | 166 | 82.9 | 0.00666 |
| 38 | d12-Benzo(e)pyrene | 2.83e6 | 4.48e6 | 0.738 | 1.000 | 28.66 | 28.69 | 1.060 | 1.061 | NO | 171 | 85.7 | 0.0965 |
| 39 | d10-1-Methylnaphthalene | 1.48e6 | 1.48e6 | 1.00 | 1.000 | 11.93 | 11.93 | 1.000 | 1.000 | NO | 100 | 100 | 0.0139 |
| 40 | d10-Pyrene | 1.77e6 | 1.77e6 | 1.00 | 1.000 | 20.81 | 20.81 | 1.000 | 1.000 | NO | 100 | 100 | 0.0117 |
| 41 | d12-Perylene | 1.26e6 | 1.26e6 | 1.00 | 1.000 | 29.59 | 29.57 | 1.000 | 1.000 | NO | 100 | 100 | 0.126 |

Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

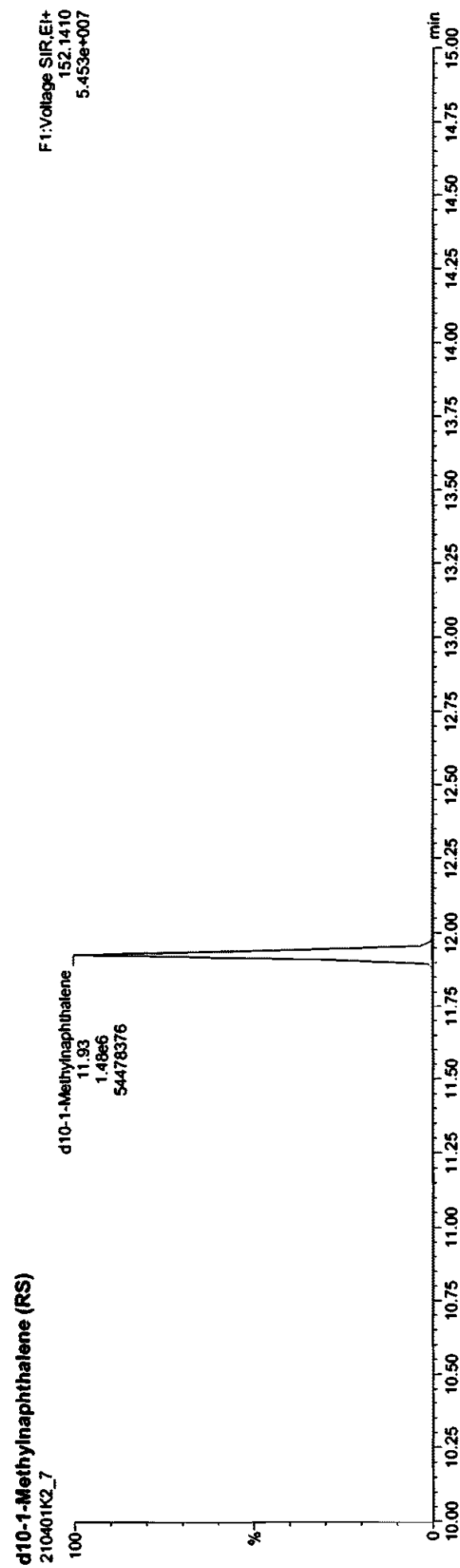
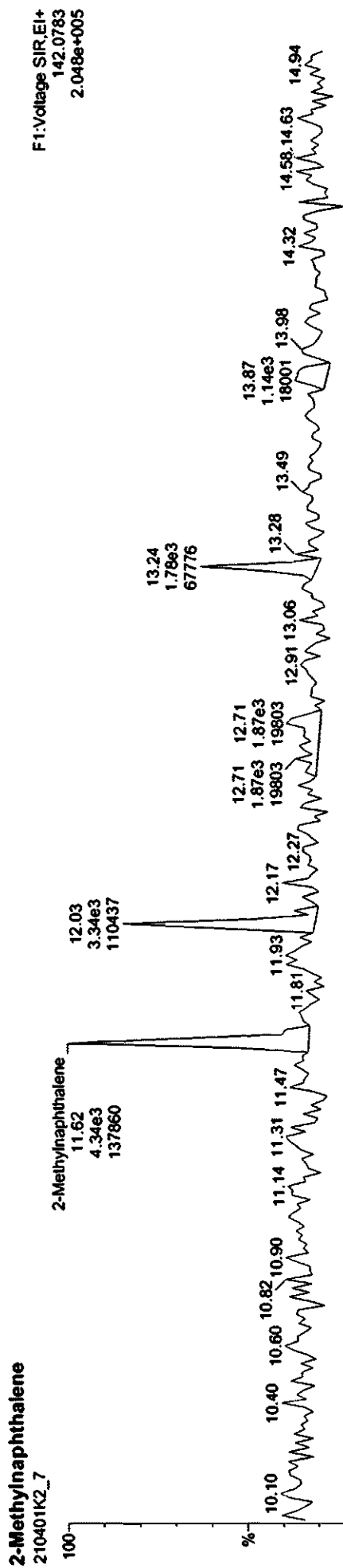
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
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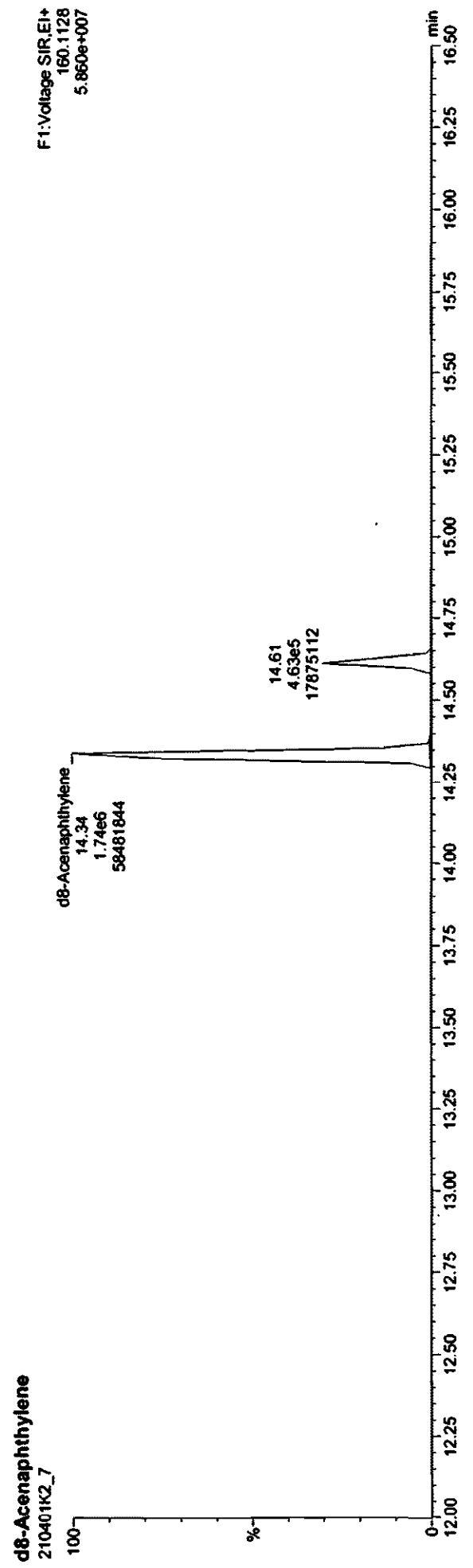
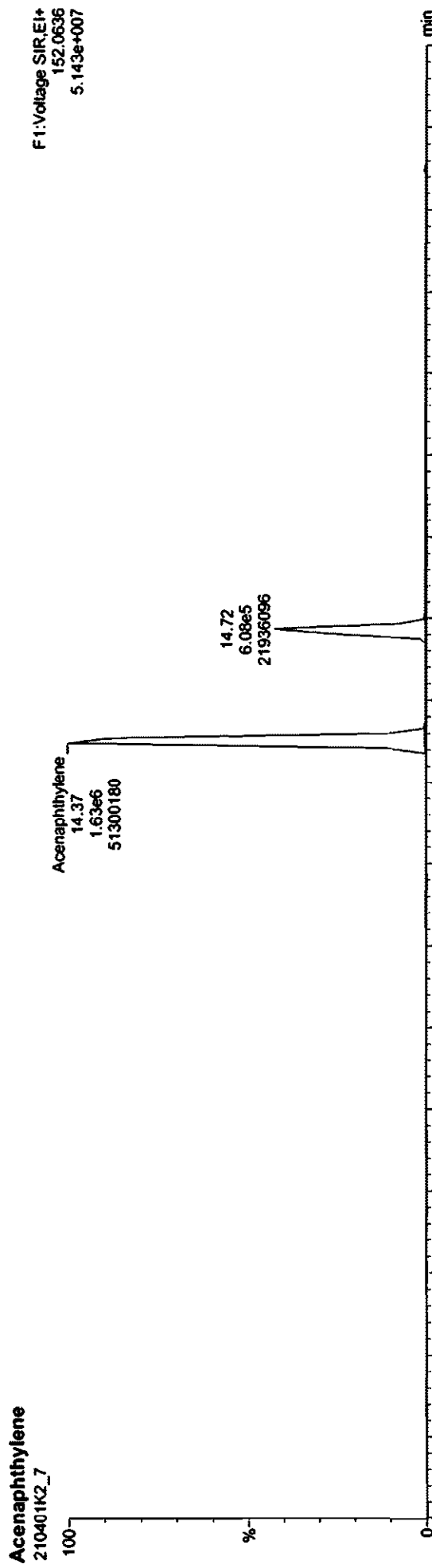
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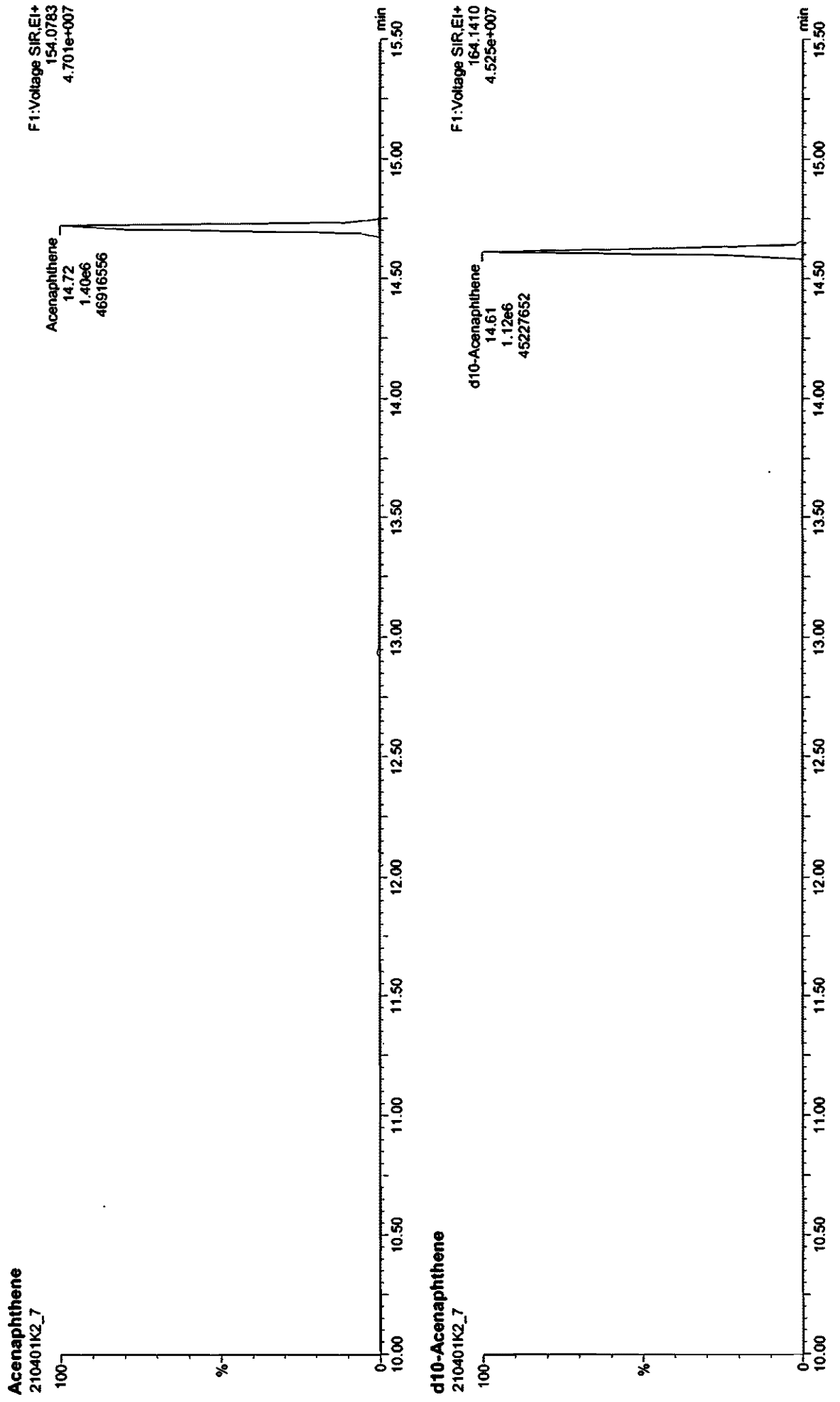
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

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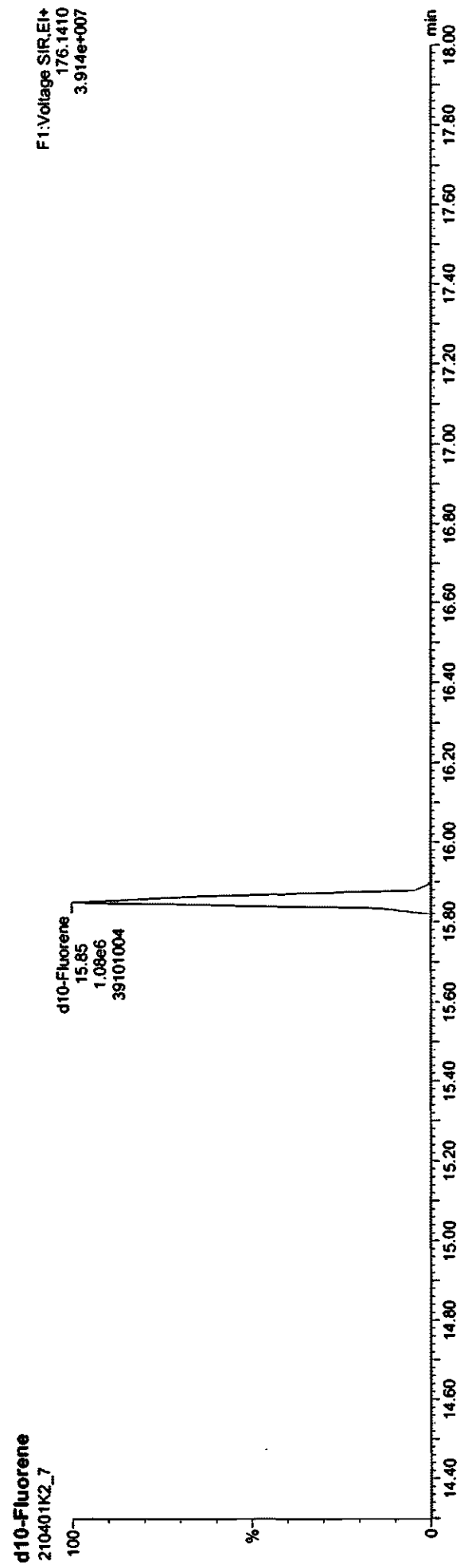
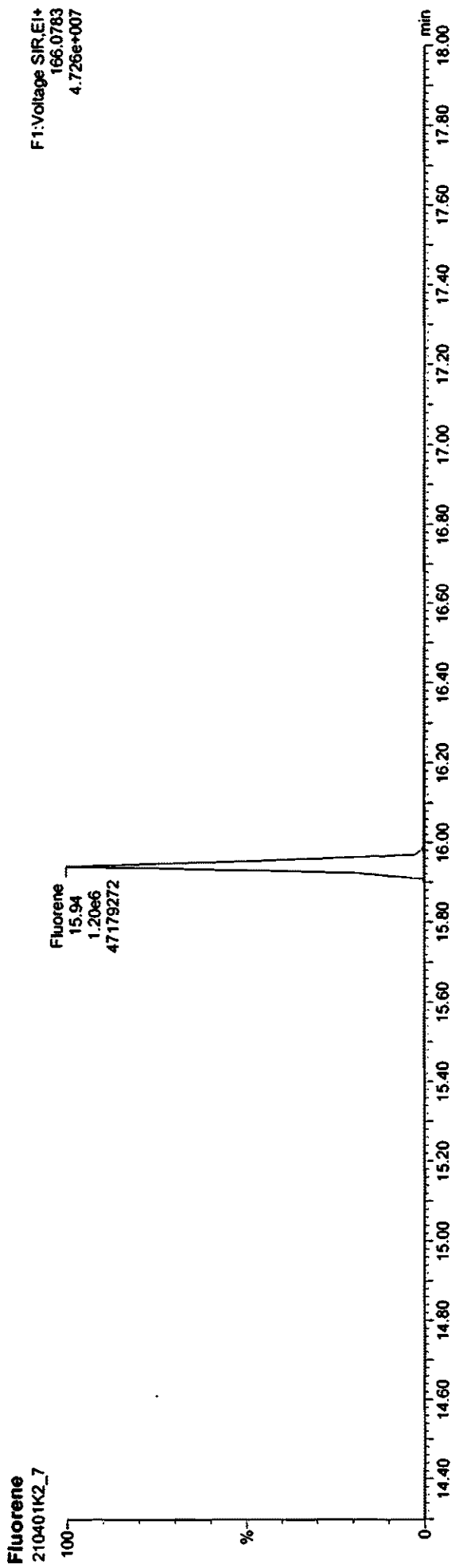


Quantify Sample Report
Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515

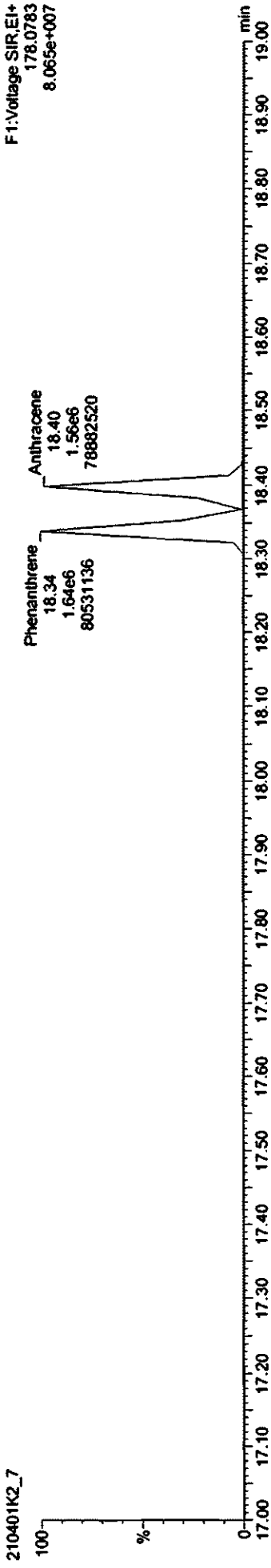


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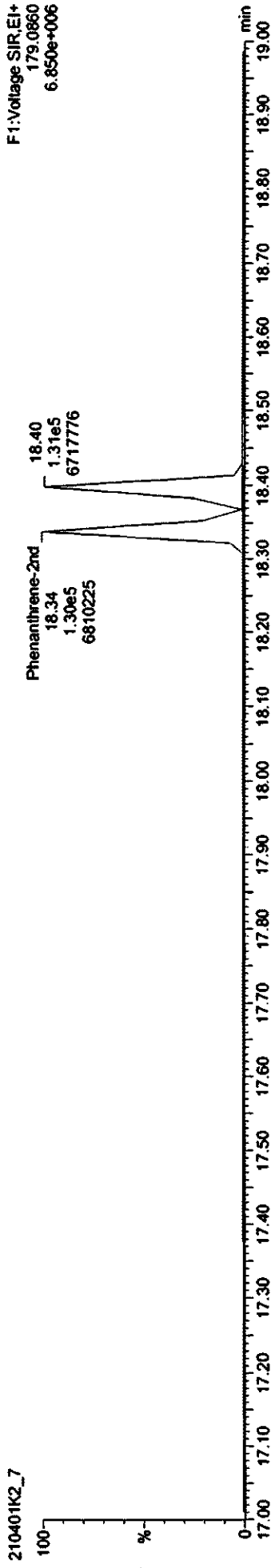
Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

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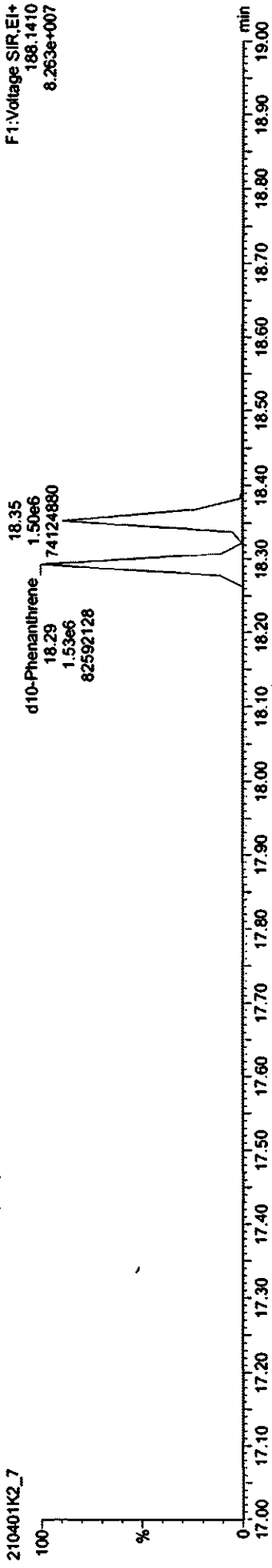
Phenanthrene; Anthracene



Phenanthrene-2nd



d10-Phenanthrene; d10-Anthracene (AS)



Quantify Sample Report
Vista Analytical Laboratory

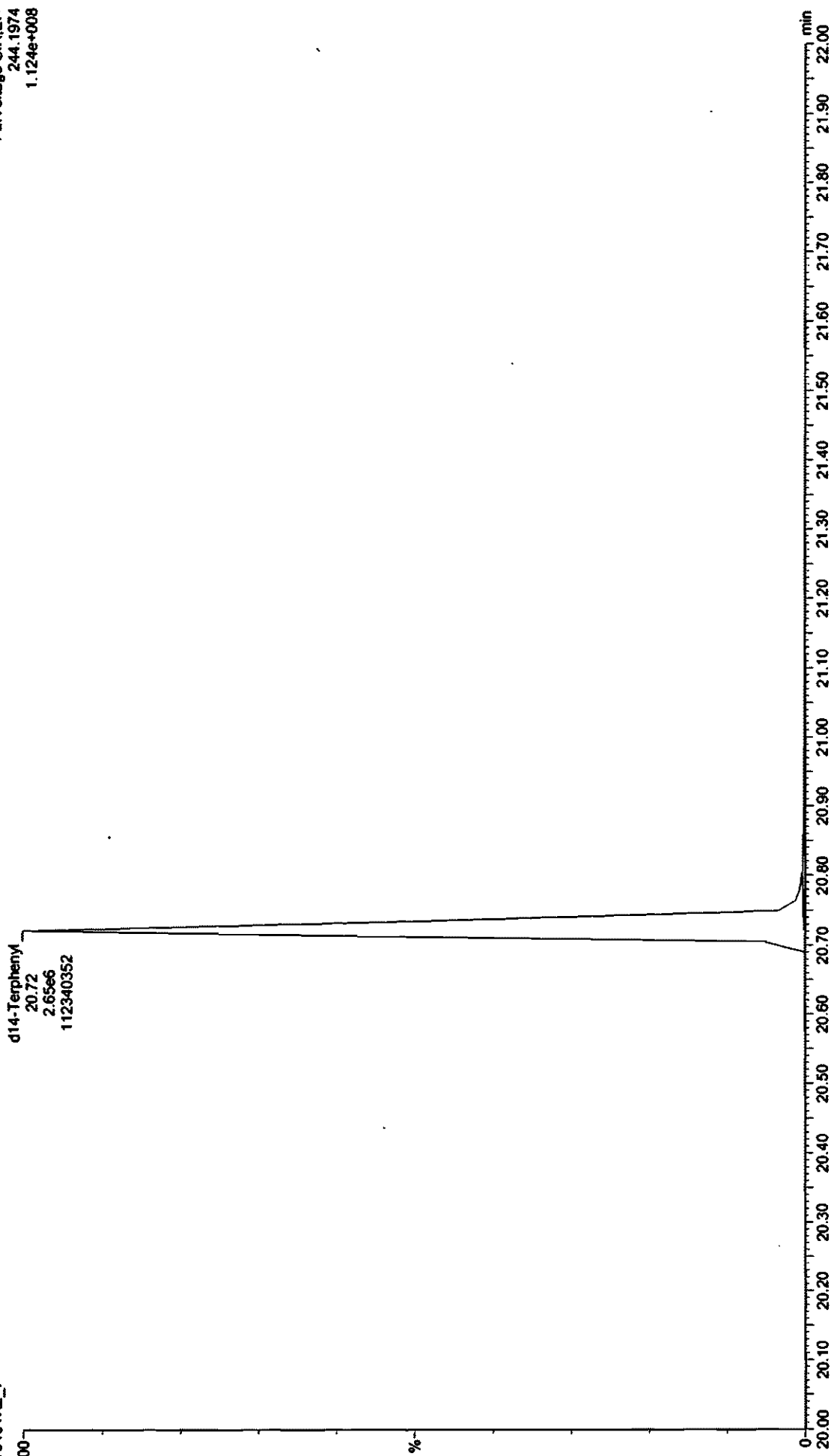
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Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
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Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515

d14-Terphenyl (PS)
210401K2_7

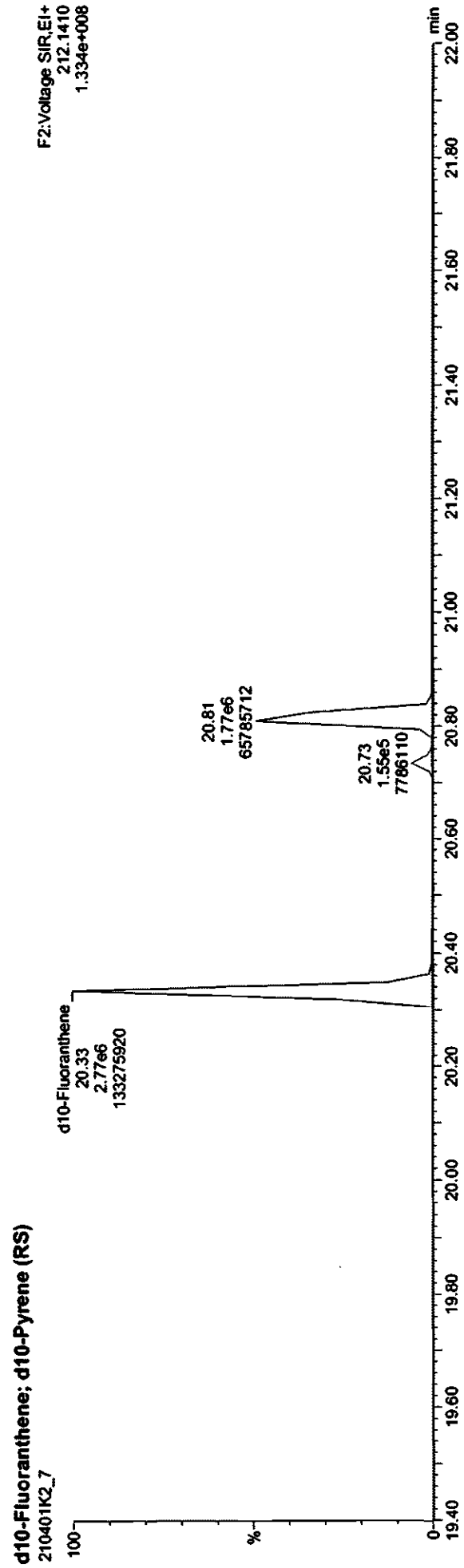
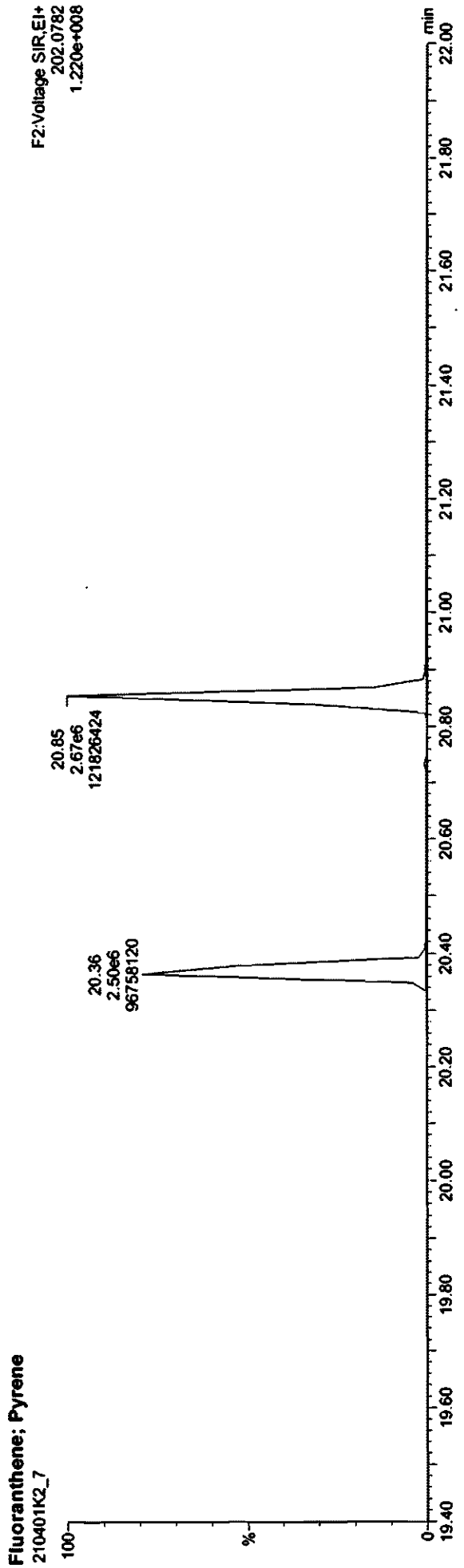
F2:Voltage SIR.EI+
244.1974
1.124e+008



Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515



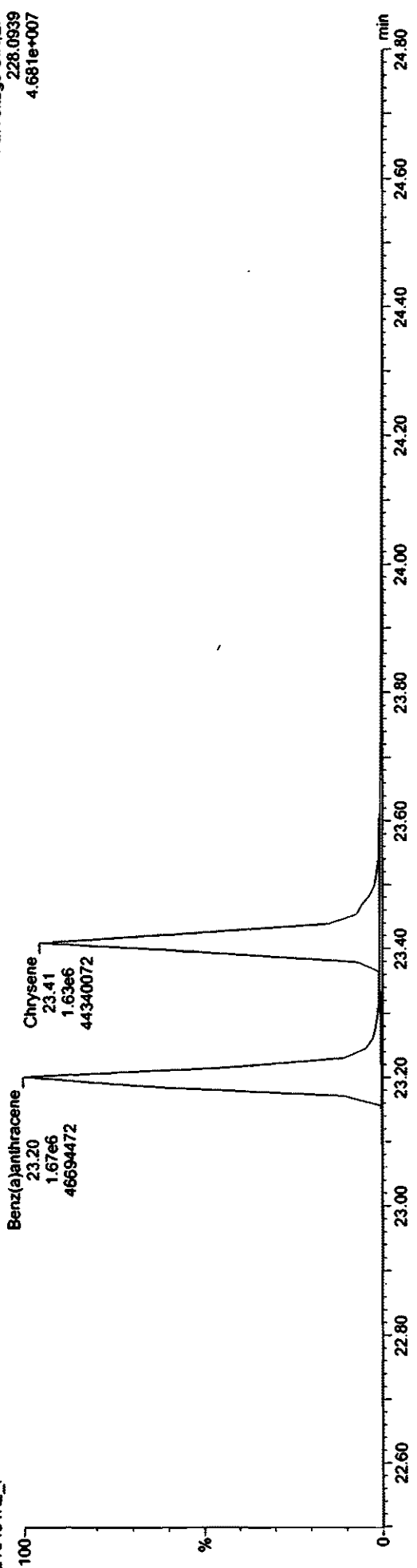
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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515

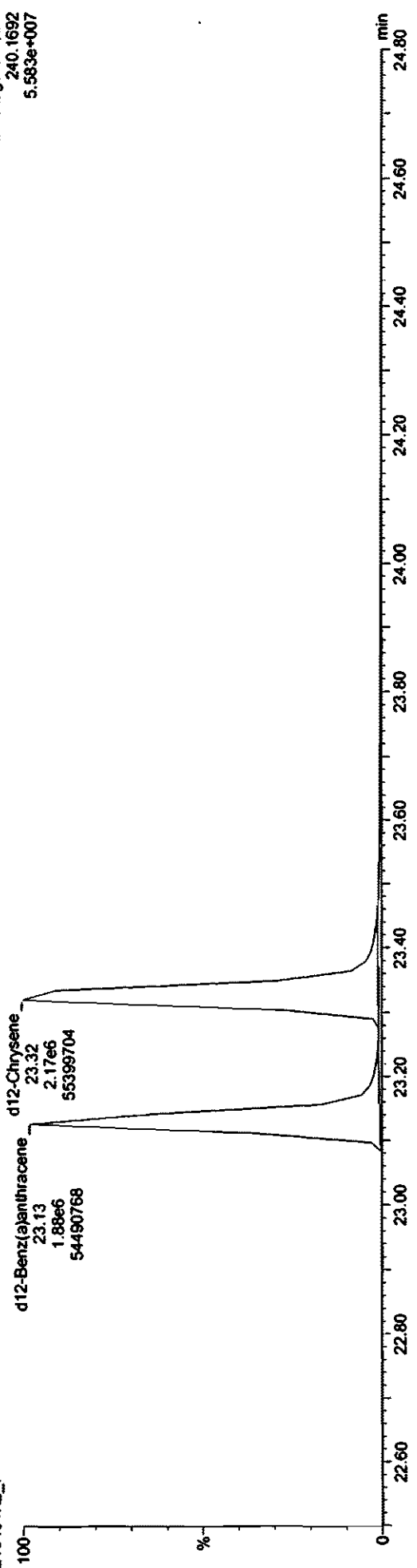
Benz(a)Anthracene-Chrysene
210401K2_7

F2:Voltage SIR.EI+
228.0939
4.681e+007



Benz(a)Anthracene-Chrysene-Iso
210401K2_7

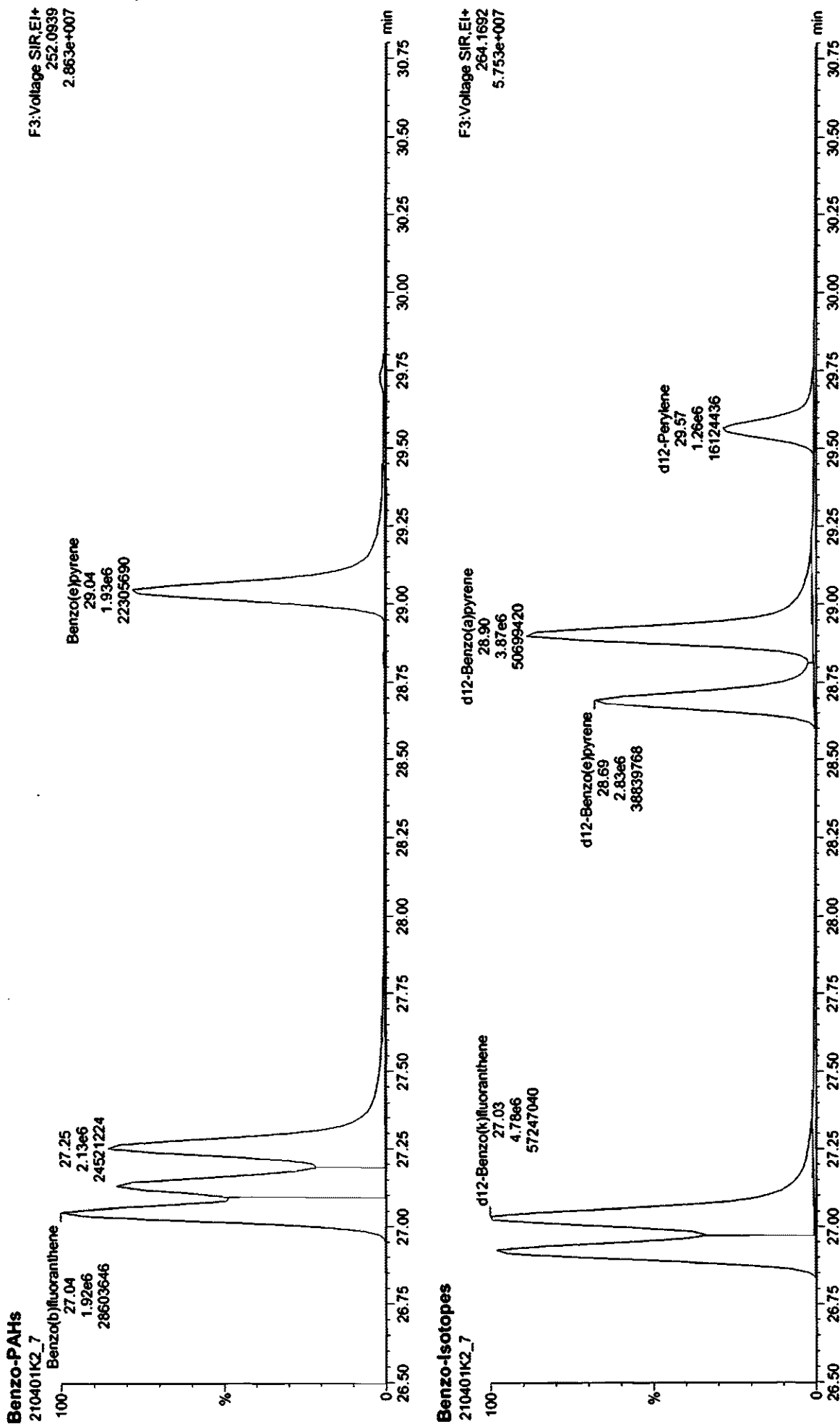
F2:Voltage SIR.EI+
240.1692
5.583e+007



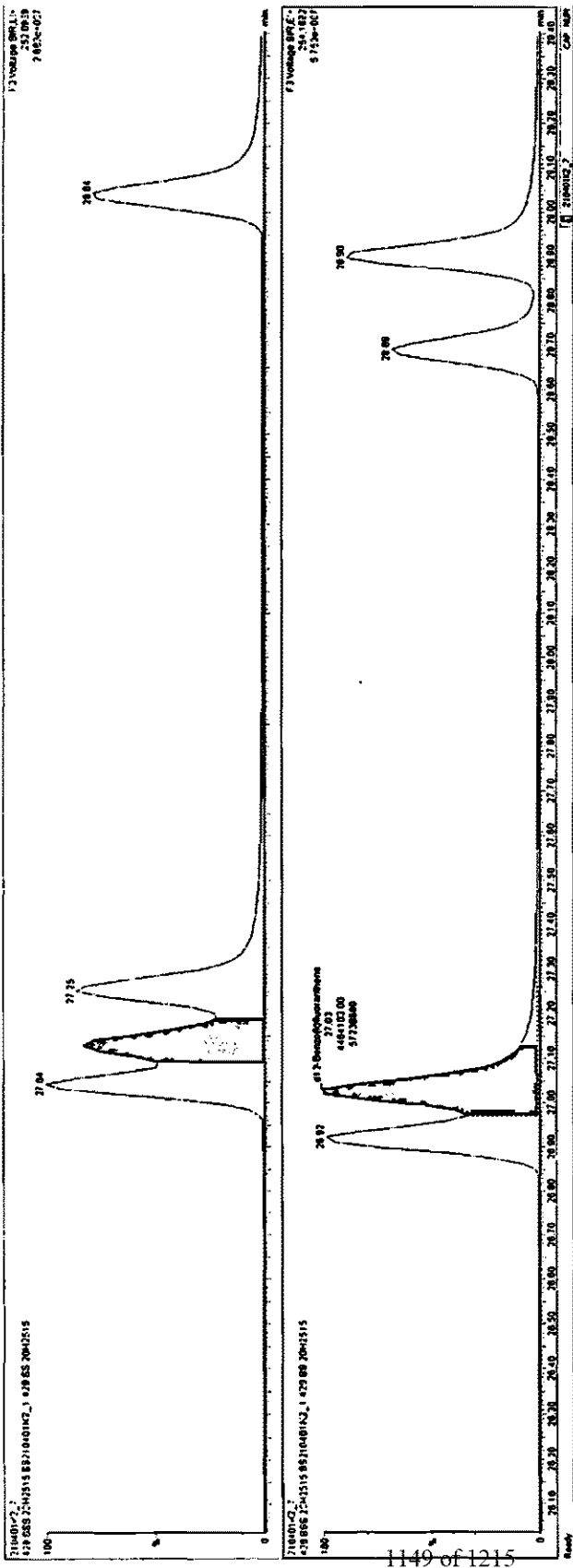
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Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

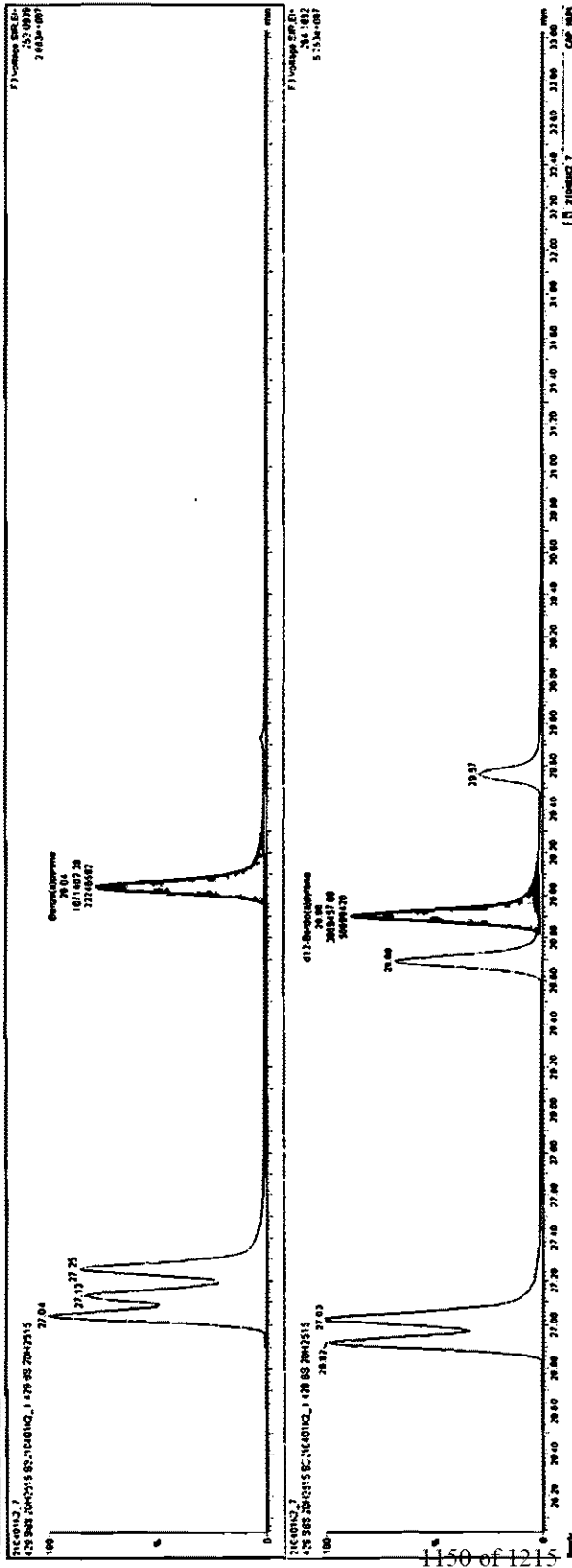
Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515



| Peak | Retention Time (min) | Area | Height | Width | Integration | Concentration (%) |
|------|----------------------|------|--------|-------|-------------|-------------------|
| 11 | 26.92 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 12 | 27.04 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 13 | 27.15 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 14 | 27.26 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 15 | 27.37 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 16 | 27.48 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 17 | 27.59 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 18 | 27.70 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 19 | 27.81 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 20 | 27.92 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 21 | 28.03 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 22 | 28.14 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 23 | 28.25 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 24 | 28.36 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 25 | 28.47 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 26 | 28.58 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 27 | 28.69 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 28 | 28.80 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 29 | 28.91 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 30 | 29.02 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 31 | 29.13 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 32 | 29.24 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 33 | 29.35 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 34 | 29.46 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 35 | 29.57 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 36 | 29.68 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 37 | 29.79 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 38 | 29.90 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 39 | 30.01 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 40 | 30.12 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 41 | 30.23 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 42 | 30.34 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 43 | 30.45 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 44 | 30.56 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 45 | 30.67 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 46 | 30.78 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 47 | 30.89 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 48 | 31.00 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 49 | 31.11 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 50 | 31.22 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 51 | 31.33 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 52 | 31.44 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 53 | 31.55 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 54 | 31.66 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 55 | 31.77 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 56 | 31.88 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 57 | 31.99 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 58 | 32.10 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 59 | 32.21 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 60 | 32.32 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 61 | 32.43 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 62 | 32.54 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 63 | 32.65 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 64 | 32.76 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 65 | 32.87 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 66 | 32.98 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 67 | 33.09 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 68 | 33.20 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 69 | 33.31 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 70 | 33.42 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 71 | 33.53 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 72 | 33.64 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 73 | 33.75 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 74 | 33.86 | 1000 | 1000 | 1000 | 1000 | 0.00 |
| 75 | 33.97 | 1000 | 1000 | 1000 | 1000 | 0.00 |



| Peak # | Retention Time (min) | Area | Height | Width | Resolution | Integration | Label |
|--------|----------------------|----------|----------|----------|------------|-------------|-------|
| 1 | 27.04 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.04 |
| 2 | 27.13 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.13 |
| 3 | 27.25 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.25 |
| 4 | 27.37 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.37 |
| 5 | 27.50 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.50 |
| 6 | 27.63 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.63 |
| 7 | 27.76 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.76 |
| 8 | 27.89 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 27.89 |
| 9 | 28.02 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.02 |
| 10 | 28.15 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.15 |
| 11 | 28.28 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.28 |
| 12 | 28.41 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.41 |
| 13 | 28.54 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.54 |
| 14 | 28.67 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.67 |
| 15 | 28.80 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.80 |
| 16 | 28.93 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 28.93 |
| 17 | 29.06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.06 |
| 18 | 29.19 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.19 |
| 19 | 29.32 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.32 |
| 20 | 29.45 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.45 |
| 21 | 29.58 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.58 |
| 22 | 29.71 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.71 |
| 23 | 29.84 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.84 |
| 24 | 29.97 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 29.97 |
| 25 | 30.10 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 30.10 |
| 26 | 30.23 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 30.23 |
| 27 | 30.36 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 30.36 |
| 28 | 30.49 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 30.49 |
| 29 | 30.62 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 30.62 |
| 30 | 30.75 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 30.75 |
| 31 | 30.88 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 30.88 |
| 32 | 31.01 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.01 |
| 33 | 31.14 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.14 |
| 34 | 31.27 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.27 |
| 35 | 31.40 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.40 |
| 36 | 31.53 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.53 |
| 37 | 31.66 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.66 |
| 38 | 31.79 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.79 |
| 39 | 31.92 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 31.92 |
| 40 | 32.05 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.05 |
| 41 | 32.18 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.18 |
| 42 | 32.31 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.31 |
| 43 | 32.44 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.44 |
| 44 | 32.57 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.57 |
| 45 | 32.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.70 |
| 46 | 32.83 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.83 |
| 47 | 32.96 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 32.96 |
| 48 | 33.09 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 33.09 |



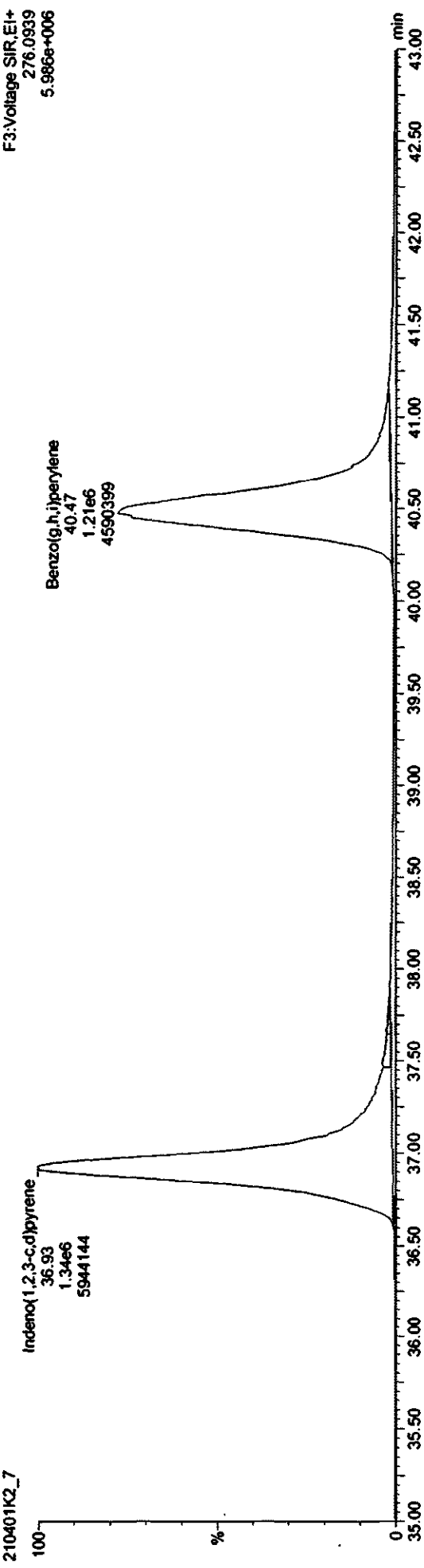
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515

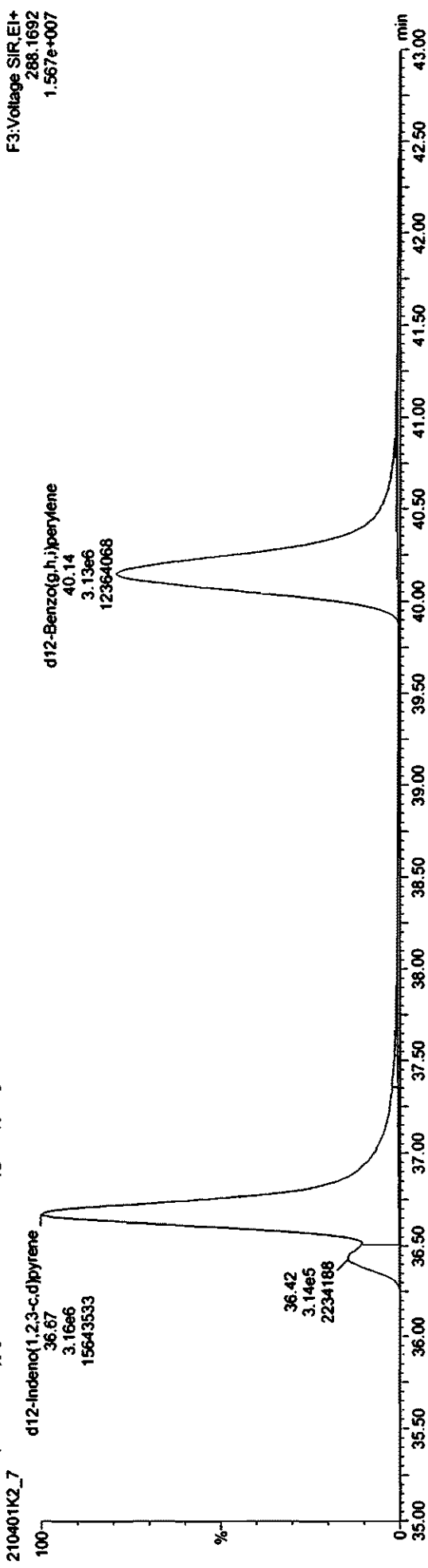
Indeno(1,2,3-c,d)pyrene; Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
276.0939
5.986e+006

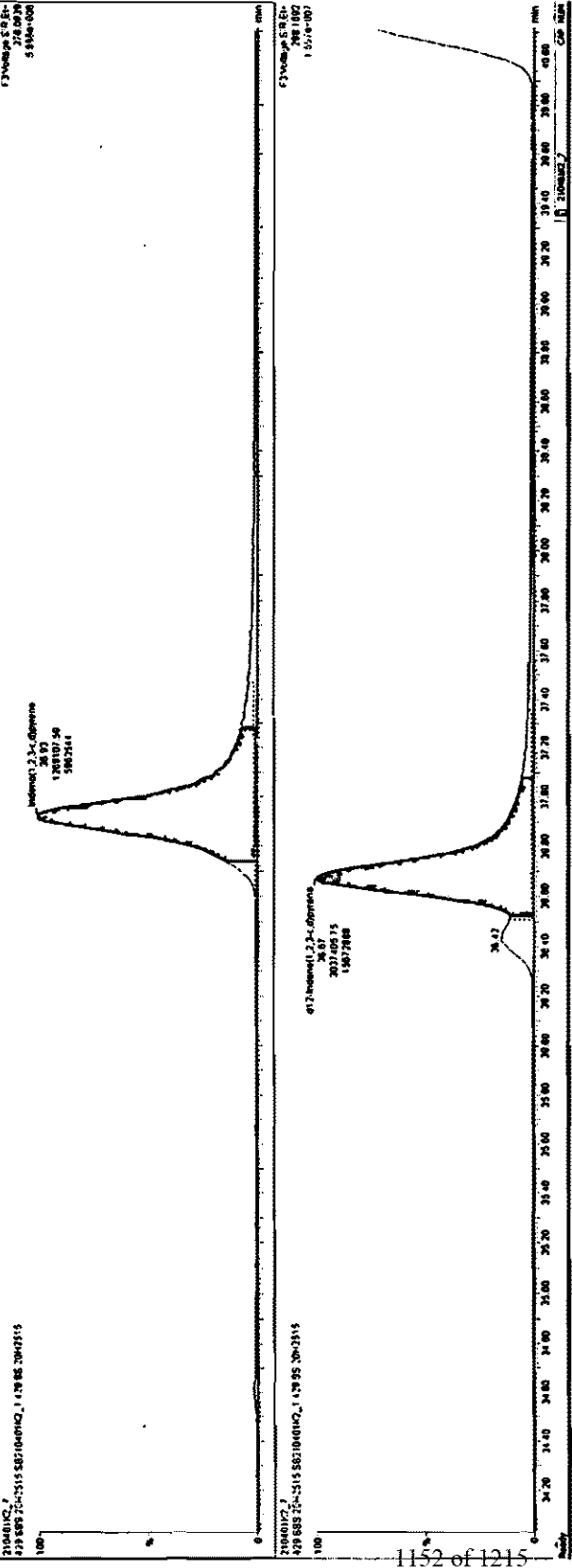


d12-Indeno(1,2,3-c,d)pyrene; d12-Benzo(g,h,i)perylene

F3:Voltage SIR,EI+
288.1692
1.567e+007



| Peak | Time | Area | Height | Width | Height | Area | Height | Width | Area | Height | Area | Height | Area | Height | Area | Height | Area | Height | Area | Height |
|------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 14 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 15 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 16 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 17 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 18 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 19 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 20 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 21 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 22 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 23 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 24 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 25 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 26 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 27 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |
| 28 | 34.70 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 | 1.00E+06 |



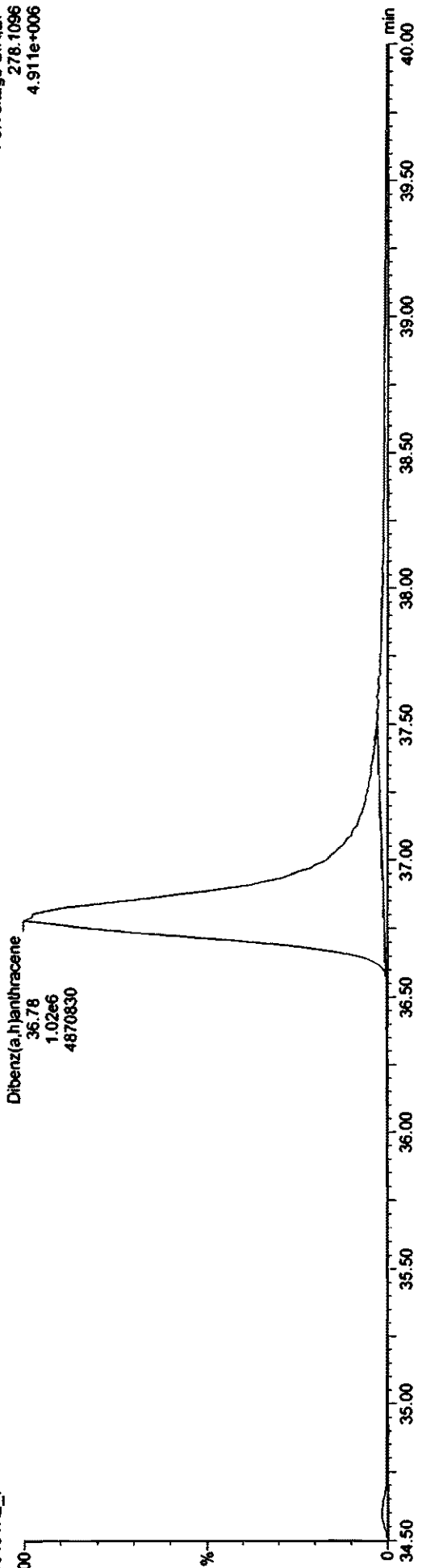
Dataset: Untitled

Last Altered: Thursday, April 01, 2021 16:21:46 Pacific Daylight Time
Printed: Thursday, April 01, 2021 16:24:39 Pacific Daylight Time

Name: 210401K2_7, Date: 01-Apr-2021, Time: 14:17:38, ID: SS210401K2_1 429 SS 20H2515, Description: 429 SSS 20H2515

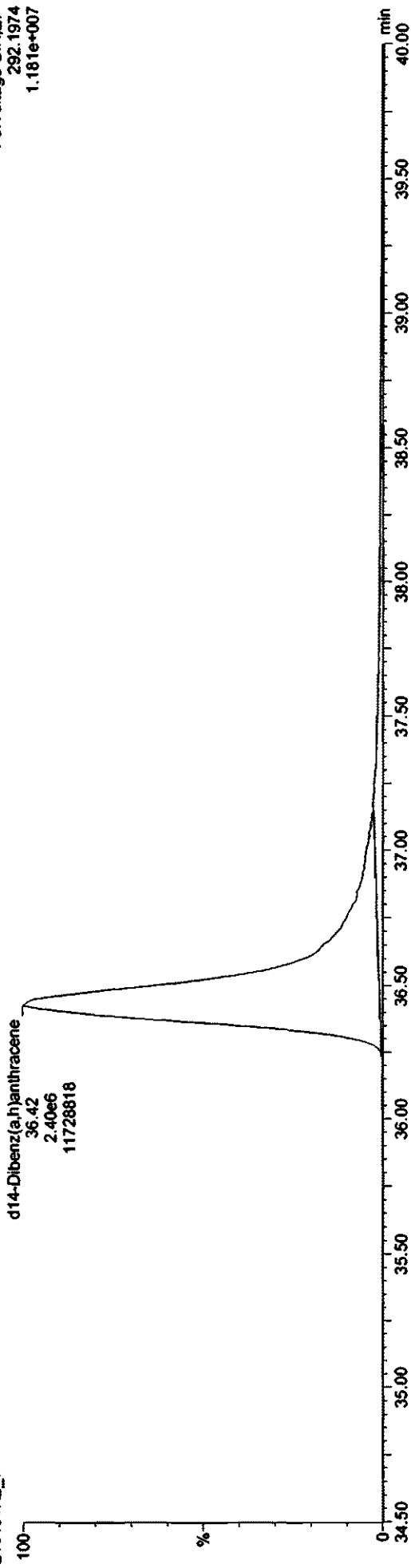
Dibenz(a,h)anthracene
210401K2_7

F3:Voltage SIR,EI+
278.1096
4.911e+006



d14-Dibenz(a,h)anthracene
210401K2_7

F3:Voltage SIR,EI+
292.1974
1.181e+007



Work Orders: 1C22044

Report Date: 4/09/2021

Received Date: 3/22/2021

Project: 21-0883 All American Asphalt

Turnaround Time: Normal

Phones: (714) 889-4000

Fax: (714) 889-7030

Attn: Charles Figueroa

P.O. #: 21-0883

Client: Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Billing Code:

DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NJ-DEP #CA015

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Charles Figueroa,

Enclosed are the results of analyses for samples received 3/22/21 with the Chain-of-Custody document. The samples were received in good condition, at 22.1 °C. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Brandon Gee
Operations Manager/Senior PM





WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

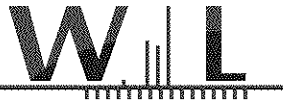
Project Manager: Charles Figueroa

Sample Summary

| Sample Name | Sampled By | Lab ID | Matrix | Sampled | Qualifiers |
|---|------------|------------|--------|----------------|------------|
| M436 - CAU Inlet - Run 1, Alias: M436-Filter | Client | 1C22044-01 | Filter | 03/17/21 15:00 | |
| M436 - CAU Inlet - Run 1, Alias: M436-Knockout | Client | 1C22044-04 | Filter | 03/17/21 15:00 | |
| M436 - CAU Inlet - Run 1, Alias: M436-KMnO4 | Client | 1C22044-05 | Filter | 03/17/21 15:00 | |
| M436 - CAU Inlet - Run 1, Alias: M436-HCL Rinse | Client | 1C22044-06 | Filter | 03/17/21 15:00 | |
| M436 - CAU Inlet - Run 2, Alias: M436-Filter | Client | 1C22044-07 | Filter | 03/18/21 14:00 | |
| M436 - CAU Inlet - Run 2, Alias: M436-Knockout | Client | 1C22044-10 | Filter | 03/18/21 14:00 | |
| M436 - CAU Inlet - Run 2, Alias: M436-KMnO4 | Client | 1C22044-11 | Filter | 03/18/21 14:00 | |
| M436 - CAU Inlet - Run 2, Alias: M436-HCL Rinse | Client | 1C22044-12 | Filter | 03/18/21 14:00 | |
| M436 - CAU Inlet - Run 3, Alias: M436-Filter | Client | 1C22044-13 | Filter | 03/19/21 14:00 | |
| M436 - CAU Inlet - Run 3, Alias: M436-Knockout | Client | 1C22044-16 | Filter | 03/19/21 14:00 | |
| M436 - CAU Inlet - Run 3, Alias: M436-KMnO4 | Client | 1C22044-17 | Filter | 03/19/21 14:00 | |
| M436 - CAU Inlet - Run 3, Alias: M436-HCL Rinse | Client | 1C22044-18 | Filter | 03/19/21 14:00 | |
| M436 - CAU Outlet - Run 1, Alias: M436-Filter | Client | 1C22044-19 | Filter | 03/17/21 15:00 | |
| M436 - CAU Outlet - Run 1, Alias: M436-Knockout | Client | 1C22044-22 | Filter | 03/17/21 15:00 | |
| M436 - CAU Outlet - Run 1, Alias: M436-KMnO4 | Client | 1C22044-23 | Filter | 03/17/21 15:00 | |
| M436 - CAU Outlet - Run 1, Alias: M436-HCL Rinse | Client | 1C22044-24 | Filter | 03/17/21 15:00 | |
| M436 - CAU Outlet - Run 2, Alias: M436-Filter | Client | 1C22044-25 | Filter | 03/18/21 14:00 | |
| M436 - CAU Outlet - Run 2, Alias: M436-Knockout | Client | 1C22044-28 | Filter | 03/18/21 14:00 | |
| M436 - CAU Outlet - Run 2, Alias: M436-KMnO4 | Client | 1C22044-29 | Filter | 03/18/21 14:00 | |
| M436 - CAU Outlet - Run 2, Alias: M436-HCL Rinse | Client | 1C22044-30 | Filter | 03/18/21 14:00 | |
| M436 - CAU Outlet - Run 3, Alias: M436-Filter | Client | 1C22044-31 | Filter | 03/19/21 14:00 | |
| M436 - CAU Outlet - Run 3, Alias: M436-Knockout | Client | 1C22044-34 | Filter | 03/19/21 14:00 | |
| M436 - CAU Outlet - Run 3, Alias: M436-KMnO4 | Client | 1C22044-35 | Filter | 03/19/21 14:00 | |
| M436 - CAU Outlet - Run 3, Alias: M436-HCL Rinse | Client | 1C22044-36 | Filter | 03/19/21 14:00 | |
| M436 - Field Blank / Inlet, Alias: M436-Filter | Client | 1C22044-37 | Filter | 03/19/21 15:00 | |
| M436 - Field Blank / Inlet, Alias: M436-Knockout | Client | 1C22044-40 | Filter | 03/19/21 15:00 | |
| M436 - Field Blank / Inlet, Alias: M436-KMnO4 | Client | 1C22044-41 | Filter | 03/19/21 15:00 | |
| M436 - Field Reagent Blanks, Alias: M436-Filter | Client | 1C22044-42 | Filter | 03/19/21 06:00 | |
| M436 - Field Reagent Blanks, Alias: M436-Knockout | Client | 1C22044-45 | Filter | 03/19/21 06:00 | |
| M436 - Field Reagent Blanks, Alias: M436-KMnO4 | Client | 1C22044-46 | Filter | 03/19/21 06:00 | |
| M436 - Field Blank / Outlet, Alias: M436-Filter | Client | 1C22044-47 | Filter | 03/19/21 15:00 | |
| M436 - Field Blank / Outlet, Alias: M436-Knockout | Client | 1C22044-50 | Filter | 03/19/21 15:00 | |
| M436 - Field Blank / Outlet, Alias: M436-KMnO4 | Client | 1C22044-51 | Filter | 03/19/21 15:00 | |

Analyses Accreditation Summary

| Analyte | CAS # | Not By NELAP | ANAB ISO 17025 |
|--|-----------|-----------------|-------------------|
| CARB 101 in Air Mercury, Total | 7439-97-6 | ✓ | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

Sample: M436 - CAU Inlet - Run 1, Alias: M436-Filter
1C22044-01 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101 Instr: HG03
 Batch ID: W1C1796 Preparation: EPA 7470A Prepared: 03/31/21 10:00 Analyst: mem
 Mercury, Total 0.0088 0.00036 0.0046 ug/filter 1 03/31/21

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

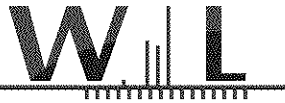
| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|--|--------|-------|------|-----------|-----|----------|-----------|
| Method: EPA 6020 Instr: ICPMS03 | | | | | | | |
| Batch ID: W1C1714 Preparation: CARB 436 Prepared: 03/29/21 09:23 Analyst: ALN | | | | | | | |
| Aluminum, Total | 100 | | 27 | ug/filter | 5 | 04/05/21 | |
| Antimony, Total | ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
| Arsenic, Total | 0.88 | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04, J |
| Barium, Total | 5.3 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Beryllium, Total | ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
| Cadmium, Total | 0.17 | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | M-04, J |
| Chromium, Total | 3.7 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Cobalt, Total | 0.10 | 0.054 | 0.54 | ug/filter | 1 | 04/05/21 | J |
| Copper, Total | 4.5 | 1.4 | 5.4 | ug/filter | 1 | 04/05/21 | J |
| Lead, Total | 1.7 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Manganese, Total | 8.2 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Nickel, Total | 4.4 | 0.11 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Phosphorus, Total | 32 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | M-04, J |
| Selenium, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04 |
| Silver, Total | 0.88 | 0.020 | 0.20 | ug/filter | 1 | 04/05/21 | |
| Thallium, Total | ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Vanadium, Total | ND | 0.18 | 2.7 | ug/filter | 1 | 04/05/21 | |
| Zinc, Total | 9.8 | 2.4 | 22 | ug/filter | 4 | 04/06/21 | M-04, J |

Sample: M436 - CAU Inlet - Run 1, Alias: M436-Knockout
1C22044-04 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101 Instr: HG03
 Batch ID: W1C1729 Preparation: EPA 7470A Prepared: 03/29/21 11:18 Analyst: mem
 Mercury, Total 0.0047 0.00076 0.0098 ug/filter 1 03/29/21 J



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Inlet - Run 1, Alias: M436-KMnO4
1C22044-05 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

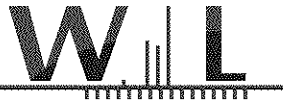
| | | | | | | | |
|-------------------|------------------------|--------|-------|--------------------------|---|----------|--------------|
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1C1729 | Preparation: EPA 7470A | | | Prepared: 03/29/21 11:18 | | | Analyst: mem |
| Mercury, Total | 0.044 | 0.0039 | 0.050 | ug/filter | 1 | 03/29/21 | J |

Sample: M436 - CAU Inlet - Run 1, Alias: M436-HCL Rinse
1C22044-06 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|-------------------|------------------------|--------|------|--------------------------|---|----------|--------------|
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1C1796 | Preparation: EPA 7470A | | | Prepared: 03/31/21 10:00 | | | Analyst: mem |
| Mercury, Total | 1.9 | 0.0078 | 0.10 | ug/filter | 2 | 03/31/21 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Inlet - Run 2, Alias: M436-Filter
1C22044-07 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101 Instr: HG03
 Batch ID: W1C1796 Preparation: EPA 7470A Prepared: 03/31/21 10:00 Analyst: mem
 Mercury, Total 0.0054 0.00037 0.0048 ug/filter 1 03/31/21

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|--|--------|-------|------|-----------|-----|----------|-----------|
| Method: EPA 6020 Instr: ICPMS03 | | | | | | | |
| Batch ID: W1C1714 Preparation: CARB 436 Prepared: 03/29/21 09:23 Analyst: ALN | | | | | | | |
| Aluminum, Total | 94 | | 27 | ug/filter | 5 | 04/05/21 | |
| Antimony, Total | ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
| Arsenic, Total | 0.40 | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04, J |
| Barium, Total | 6.6 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Beryllium, Total | ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
| Cadmium, Total | 0.16 | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | M-04, J |
| Chromium, Total | 2.5 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Cobalt, Total | 0.059 | 0.054 | 0.54 | ug/filter | 1 | 04/05/21 | J |
| Copper, Total | 2.5 | 1.4 | 5.4 | ug/filter | 1 | 04/05/21 | J |
| Lead, Total | 0.53 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 | J |
| Manganese, Total | 4.9 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Nickel, Total | 3.3 | 0.11 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Phosphorus, Total | 32 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | M-04, J |
| Selenium, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04 |
| Silver, Total | 0.36 | 0.020 | 0.20 | ug/filter | 1 | 04/05/21 | |
| Thallium, Total | ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Vanadium, Total | ND | 0.18 | 2.7 | ug/filter | 1 | 04/05/21 | |
| Zinc, Total | 8.3 | 2.4 | 22 | ug/filter | 4 | 04/06/21 | M-04, J |

Sample: M436 - CAU Inlet - Run 2, Alias: M436-Knockout
1C22044-10 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101 Instr: HG03
 Batch ID: W1C1729 Preparation: EPA 7470A Prepared: 03/29/21 11:18 Analyst: mem
 Mercury, Total 0.0019 0.00075 0.0096 ug/filter 1 03/29/21 J



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

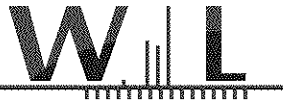
(Continued)

Sample: M436 - CAU Inlet - Run 2, Alias: M436-KMnO4
1C22044-11 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|------------------------|--------|-------|--------------------------|-----|----------|--------------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1C1729 | Preparation: EPA 7470A | | | Prepared: 03/29/21 11:18 | | | Analyst: mem |
| Mercury, Total | 0.86 | 0.0039 | 0.050 | ug/filter | 1 | 03/29/21 | |

Sample: M436 - CAU Inlet - Run 2, Alias: M436-HCL Rinse
1C22044-12 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|------------------------|--------|-------|--------------------------|-----|----------|--------------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1C1796 | Preparation: EPA 7470A | | | Prepared: 03/31/21 10:00 | | | Analyst: mem |
| Mercury, Total | ND | 0.0039 | 0.050 | ug/filter | 1 | 03/31/21 | |



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Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Inlet - Run 3, Alias: M436-Filter
1C22044-13 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101 Instr: HG03
 Batch ID: W1C1796 Preparation: EPA 7470A Prepared: 03/31/21 10:00 Analyst: mem
 Mercury, Total 0.0058 0.00036 0.0046 ug/filter 1 03/31/21

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|--|--------|-------|------|-----------|-----|----------|-----------|
| Method: EPA 6020 Instr: ICPMS03 | | | | | | | |
| Batch ID: W1C1714 Preparation: CARB 436 Prepared: 03/29/21 09:23 Analyst: ALN | | | | | | | |
| Aluminum, Total | 96 | | 27 | ug/filter | 5 | 04/05/21 | |
| Antimony, Total | ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
| Arsenic, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04 |
| Barium, Total | 7.3 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Beryllium, Total | ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
| Cadmium, Total | ND | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | M-04 |
| Chromium, Total | 2.0 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Cobalt, Total | 0.054 | 0.054 | 0.54 | ug/filter | 1 | 04/05/21 | J |
| Copper, Total | 9.2 | 1.4 | 5.4 | ug/filter | 1 | 04/05/21 | |
| Lead, Total | 0.45 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 | J |
| Manganese, Total | 2.8 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Nickel, Total | 2.5 | 0.11 | 0.54 | ug/filter | 1 | 04/05/21 | |
| Phosphorus, Total | 26 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | M-04, J |
| Selenium, Total | 0.28 | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04, J |
| Silver, Total | 0.19 | 0.020 | 0.20 | ug/filter | 1 | 04/05/21 | J |
| Thallium, Total | ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Vanadium, Total | ND | 0.18 | 2.7 | ug/filter | 1 | 04/05/21 | |
| Zinc, Total | 9.6 | 2.4 | 22 | ug/filter | 4 | 04/06/21 | M-04, J |

Sample: M436 - CAU Inlet - Run 3, Alias: M436-Knockout
1C22044-16 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101 Instr: HG03
 Batch ID: W1C1729 Preparation: EPA 7470A Prepared: 03/29/21 11:18 Analyst: mem
 Mercury, Total ND 0.00080 0.010 ug/filter 1 03/29/21



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Inlet - Run 3, Alias: M436-KMnO4
1C22044-17 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|------------------------|--------|-------|--------------------------|-----|----------|--------------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1C1729 | Preparation: EPA 7470A | | | Prepared: 03/29/21 11:18 | | | Analyst: mem |
| Mercury, Total | 1.6 | 0.0039 | 0.050 | ug/filter | 1 | 03/29/21 | |

Sample: M436 - CAU Inlet - Run 3, Alias: M436-HCL Rinse
1C22044-18 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|------------------------|--------|-------|--------------------------|-----|----------|--------------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1C1796 | Preparation: EPA 7470A | | | Prepared: 03/31/21 10:00 | | | Analyst: mem |
| Mercury, Total | 0.12 | 0.0039 | 0.050 | ug/filter | 1 | 03/31/21 | |



WECK LABORATORIES, INC.

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10602 Walker St
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Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Outlet - Run 1, Alias: M436-Filter
1C22044-19 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|--------------------------|-------------------------------|---------|--------|---------------------------------|---|----------|---------------------|
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1D0096 | Preparation: EPA 7470A | | | Prepared: 04/05/21 15:30 | | | Analyst: mem |
| Mercury, Total | 0.034 | 0.00035 | 0.0045 | ug/filter | 1 | 04/06/21 | |

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

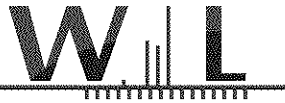
| | | | | | | | |
|--------------------------|------------------------------|-------|------|---------------------------------|---|----------|---------------------|
| Method: EPA 6020 | | | | Instr: ICPMS03 | | | |
| Batch ID: W1D0017 | Preparation: CARB 436 | | | Prepared: 04/01/21 10:10 | | | Analyst: ALN |
| Aluminum, Total | 110 | | 27 | ug/filter | 5 | 04/05/21 | |
| Antimony, Total | ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | |
| Arsenic, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | |
| Barium, Total | 8.4 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Beryllium, Total | ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | |
| Cadmium, Total | 0.30 | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | J |
| Chromium, Total | 4.4 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Cobalt, Total | 0.32 | 0.054 | 0.54 | ug/filter | 1 | 04/06/21 | J |
| Copper, Total | 2.6 | 1.4 | 5.4 | ug/filter | 1 | 04/06/21 | J |
| Lead, Total | 0.61 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Manganese, Total | 16 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Nickel, Total | 3.6 | 0.11 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Phosphorus, Total | 24 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | J |
| Selenium, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/09/21 | |
| Silver, Total | 0.16 | 0.020 | 0.20 | ug/filter | 1 | 04/06/21 | J |
| Thallium, Total | ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Vanadium, Total | ND | 0.18 | 2.7 | ug/filter | 1 | 04/06/21 | |
| Zinc, Total | 7.0 | 2.4 | 22 | ug/filter | 4 | 04/07/21 | J |

Sample: M436 - CAU Outlet - Run 1, Alias: M436-Knockout
1C22044-22 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|--------------------------|-------------------------------|---------|--------|---------------------------------|---|----------|---------------------|
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1D0095 | Preparation: EPA 7470A | | | Prepared: 04/04/21 11:45 | | | Analyst: mem |
| Mercury, Total | ND | 0.00076 | 0.0098 | ug/filter | 1 | 04/05/21 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
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Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

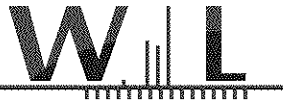
(Continued)

Sample: M436 - CAU Outlet - Run 1, Alias: M436-KMnO4
1C22044-23 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|--------|------------------------|-------|--------------------------|-----|--------------|-----------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1D0095 | | Preparation: EPA 7470A | | Prepared: 04/04/21 11:45 | | Analyst: mem | |
| Mercury, Total | ND | 0.0039 | 0.050 | ug/filter | 1 | 04/05/21 | |

Sample: M436 - CAU Outlet - Run 1, Alias: M436-HCL Rinse
1C22044-24 (Filter) Sampled: 03/17/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|--------|------------------------|-------|--------------------------|-----|--------------|-----------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1D0096 | | Preparation: EPA 7470A | | Prepared: 04/05/21 15:30 | | Analyst: mem | |
| Mercury, Total | 1.9 | 0.0039 | 0.050 | ug/filter | 1 | 04/06/21 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Outlet - Run 2, Alias: M436-Filter
1C22044-25 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|--------------------------|-------------------------------|---------|--------|-----------|---|----------|---------------------|
| Method: CARB 101 | | | | | | | |
| Batch ID: W1D0096 | Preparation: EPA 7470A | | | | | | Analyst: mem |
| Mercury, Total | 0.028 | 0.00037 | 0.0047 | ug/filter | 1 | 04/06/21 | |

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

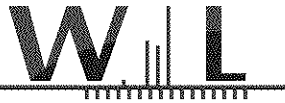
| | | | | | | | |
|--------------------------|------------------------------|-------|------|-----------|---|----------|---------------------|
| Method: EPA 6020 | | | | | | | |
| Batch ID: W1D0017 | Preparation: CARB 436 | | | | | | Analyst: ALN |
| Aluminum, Total | 110 | | 27 | ug/filter | 5 | 04/05/21 | |
| Antimony, Total | ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | |
| Arsenic, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | |
| Barium, Total | 6.7 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Beryllium, Total | ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | |
| Cadmium, Total | 0.20 | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | J |
| Chromium, Total | 1.9 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Cobalt, Total | 0.16 | 0.054 | 0.54 | ug/filter | 1 | 04/06/21 | J |
| Copper, Total | 3.5 | 1.4 | 5.4 | ug/filter | 1 | 04/06/21 | J |
| Lead, Total | 0.55 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Manganese, Total | 21 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Nickel, Total | 2.6 | 0.11 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Phosphorus, Total | 26 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | J |
| Selenium, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/09/21 | |
| Silver, Total | 0.18 | 0.020 | 0.20 | ug/filter | 1 | 04/06/21 | J |
| Thallium, Total | ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Vanadium, Total | ND | 0.18 | 2.7 | ug/filter | 1 | 04/06/21 | |
| Zinc, Total | 10 | 2.4 | 22 | ug/filter | 4 | 04/07/21 | J |

Sample: M436 - CAU Outlet - Run 2, Alias: M436-Knockout
1C22044-28 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|--------------------------|-------------------------------|---------|-------|-----------|---|----------|---------------------|
| Method: CARB 101 | | | | | | | |
| Batch ID: W1D0095 | Preparation: EPA 7470A | | | | | | Analyst: mem |
| Mercury, Total | 0.035 | 0.00078 | 0.010 | ug/filter | 1 | 04/05/21 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Outlet - Run 2, Alias: M436-KMnO4
1C22044-29 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

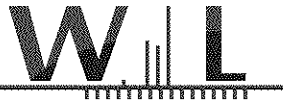
| | | | | | | | |
|--------------------------|-------------------------------|---------------------------------|-------|-----------|---|----------|---------------------|
| Method: CARB 101 | | Instr: HG03 | | | | | |
| Batch ID: W1D0095 | Preparation: EPA 7470A | Prepared: 04/04/21 11:45 | | | | | Analyst: mem |
| Mercury, Total | ND | 0.0039 | 0.050 | ug/filter | 1 | 04/05/21 | |

Sample: M436 - CAU Outlet - Run 2, Alias: M436-HCL Rinse
1C22044-30 (Filter) Sampled: 03/18/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|--------------------------|-------------------------------|---------------------------------|-------|-----------|---|----------|---------------------|
| Method: CARB 101 | | Instr: HG03 | | | | | |
| Batch ID: W1D0096 | Preparation: EPA 7470A | Prepared: 04/05/21 15:30 | | | | | Analyst: mem |
| Mercury, Total | 0.64 | 0.0039 | 0.050 | ug/filter | 1 | 04/06/21 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
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Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - CAU Outlet - Run 3, Alias: M436-Filter
1C22044-31 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|--------------------------|-------------------------------|---------|--------|-----------|---|----------|---------------------|
| Method: CARB 101 | | | | | | | |
| Batch ID: W1D0096 | Preparation: EPA 7470A | | | | | | Analyst: mem |
| Mercury, Total | 0.031 | 0.00035 | 0.0045 | ug/filter | 1 | 04/06/21 | |

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

| | | | | | | | |
|--------------------------|------------------------------|-------|------|-----------|---|----------|---------------------|
| Method: EPA 6020 | | | | | | | |
| Batch ID: W1D0017 | Preparation: CARB 436 | | | | | | Analyst: ALN |
| Aluminum, Total | 120 | | 27 | ug/filter | 5 | 04/05/21 | |
| Antimony, Total | ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | |
| Arsenic, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | |
| Barium, Total | 8.2 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Beryllium, Total | ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | |
| Cadmium, Total | 0.15 | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | J |
| Chromium, Total | 2.4 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Cobalt, Total | 0.34 | 0.054 | 0.54 | ug/filter | 1 | 04/06/21 | J |
| Copper, Total | 9.6 | 1.4 | 5.4 | ug/filter | 1 | 04/06/21 | |
| Lead, Total | 1.3 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Manganese, Total | 15 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Nickel, Total | 3.6 | 0.11 | 0.54 | ug/filter | 1 | 04/06/21 | |
| Phosphorus, Total | 32 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | J |
| Selenium, Total | ND | 0.27 | 2.7 | ug/filter | 5 | 04/09/21 | |
| Silver, Total | 0.073 | 0.020 | 0.20 | ug/filter | 1 | 04/06/21 | J |
| Thallium, Total | ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 | |
| Vanadium, Total | ND | 0.18 | 2.7 | ug/filter | 1 | 04/06/21 | |
| Zinc, Total | 15 | 2.4 | 22 | ug/filter | 4 | 04/07/21 | J |

Sample: M436 - CAU Outlet - Run 3, Alias: M436-Knockout
1C22044-34 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

| | | | | | | | |
|--------------------------|-------------------------------|---------|-------|-----------|---|----------|---------------------|
| Method: CARB 101 | | | | | | | |
| Batch ID: W1D0095 | Preparation: EPA 7470A | | | | | | Analyst: mem |
| Mercury, Total | 0.015 | 0.00080 | 0.010 | ug/filter | 1 | 04/05/21 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

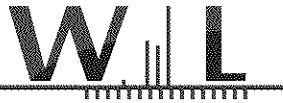
(Continued)

Sample: M436 - CAU Outlet - Run 3, Alias: M436-KMnO4
1C22044-35 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|--------|------------------------|-------|--------------------------|-----|--------------|-----------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1D0095 | | Preparation: EPA 7470A | | Prepared: 04/04/21 11:45 | | Analyst: mem | |
| Mercury, Total | ND | 0.0039 | 0.050 | ug/filter | 1 | 04/05/21 | |

Sample: M436 - CAU Outlet - Run 3, Alias: M436-HCL Rinse
1C22044-36 (Filter) Sampled: 03/19/21 14:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|--------|------------------------|-------|--------------------------|-----|--------------|-----------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1D0096 | | Preparation: EPA 7470A | | Prepared: 04/05/21 15:30 | | Analyst: mem | |
| Mercury, Total | 1.0 | 0.0039 | 0.050 | ug/filter | 1 | 04/06/21 | |



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Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - Field Blank / Inlet, Alias: M436-Filter
1C22044-37 (Filter) Sampled: 03/19/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101

Instr: HG03

Batch ID: W1C1796

Preparation: EPA 7470A

Prepared: 03/31/21 10:00

Analyst: mem

Mercury, Total

| | | | | | |
|-------|---------|--------|-----------|---|----------|
| 0.037 | 0.00035 | 0.0045 | ug/filter | 1 | 03/31/21 |
|-------|---------|--------|-----------|---|----------|

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020

Instr: ICPMS03

Batch ID: W1C1714

Preparation: CARB 436

Prepared: 03/29/21 09:23

Analyst: ALN

Aluminum, Total

| | | | | | |
|----|--|----|-----------|---|----------|
| 87 | | 27 | ug/filter | 5 | 04/05/21 |
|----|--|----|-----------|---|----------|

Antimony, Total

| | | | | | | |
|----|------|-----|-----------|---|----------|------|
| ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
|----|------|-----|-----------|---|----------|------|

Arsenic, Total

| | | | | | | |
|----|------|-----|-----------|---|----------|------|
| ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04 |
|----|------|-----|-----------|---|----------|------|

Barium, Total

| | | | | | |
|-----|------|------|-----------|---|----------|
| 7.6 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 |
|-----|------|------|-----------|---|----------|

Beryllium, Total

| | | | | | | |
|----|-----|-----|-----------|---|----------|------|
| ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | M-04 |
|----|-----|-----|-----------|---|----------|------|

Cadmium, Total

| | | | | | | |
|------|------|-----|-----------|---|----------|---------|
| 0.16 | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | M-04, J |
|------|------|-----|-----------|---|----------|---------|

Chromium, Total

| | | | | | |
|-----|------|------|-----------|---|----------|
| 1.6 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 |
|-----|------|------|-----------|---|----------|

Cobalt, Total

| | | | | | | |
|------|-------|------|-----------|---|----------|---|
| 0.25 | 0.054 | 0.54 | ug/filter | 1 | 04/05/21 | J |
|------|-------|------|-----------|---|----------|---|

Copper, Total

| | | | | | |
|----|-----|-----|-----------|---|----------|
| ND | 1.4 | 5.4 | ug/filter | 1 | 04/05/21 |
|----|-----|-----|-----------|---|----------|

Lead, Total

| | | | | | | |
|------|------|------|-----------|---|----------|---|
| 0.33 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 | J |
|------|------|------|-----------|---|----------|---|

Manganese, Total

| | | | | | |
|-----|------|------|-----------|---|----------|
| 1.5 | 0.14 | 0.54 | ug/filter | 1 | 04/05/21 |
|-----|------|------|-----------|---|----------|

Nickel, Total

| | | | | | |
|-----|------|------|-----------|---|----------|
| 1.7 | 0.11 | 0.54 | ug/filter | 1 | 04/05/21 |
|-----|------|------|-----------|---|----------|

Phosphorus, Total

| | | | | | | |
|----|-----|----|-----------|---|----------|---------|
| 27 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | M-04, J |
|----|-----|----|-----------|---|----------|---------|

Selenium, Total

| | | | | | | |
|----|------|-----|-----------|---|----------|------|
| ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | M-04 |
|----|------|-----|-----------|---|----------|------|

Silver, Total

| | | | | | | |
|-------|-------|------|-----------|---|----------|---|
| 0.043 | 0.020 | 0.20 | ug/filter | 1 | 04/05/21 | J |
|-------|-------|------|-----------|---|----------|---|

Thallium, Total

| | | | | | |
|----|-------|------|-----------|---|----------|
| ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 |
|----|-------|------|-----------|---|----------|

Vanadium, Total

| | | | | | |
|----|------|-----|-----------|---|----------|
| ND | 0.18 | 2.7 | ug/filter | 1 | 04/05/21 |
|----|------|-----|-----------|---|----------|

Zinc, Total

| | | | | | | |
|-----|-----|----|-----------|---|----------|---------|
| 3.1 | 2.4 | 22 | ug/filter | 4 | 04/06/21 | M-04, J |
|-----|-----|----|-----------|---|----------|---------|

Sample: M436 - Field Blank / Inlet, Alias: M436-Knockout
1C22044-40 (Filter) Sampled: 03/19/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101

Instr: HG03

Batch ID: W1C1729

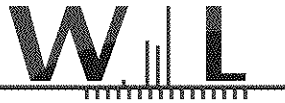
Preparation: EPA 7470A

Prepared: 03/29/21 11:18

Analyst: mem

Mercury, Total

| | | | | | |
|----|---------|-------|-----------|---|----------|
| ND | 0.00078 | 0.010 | ug/filter | 1 | 03/29/21 |
|----|---------|-------|-----------|---|----------|



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - Field Blank / Inlet, Alias: M436-KMnO4
1C22044-41 (Filter) Sampled: 03/19/21 15:00 by Client

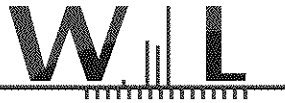
| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|------------------------|--------|--------------------------|-------------|--------------|----------|-----------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1C1729 | Preparation: EPA 7470A | | Prepared: 03/29/21 11:18 | | Analyst: mem | | |
| Mercury, Total | ND | 0.0039 | 0.050 | ug/filter | 1 | 03/29/21 | |

Sample: M436 - Field Reagent Blanks, Alias: M436-Filter
1C22044-42 (Filter) Sampled: 03/19/21 6:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------------------|------------------------|---------|--------------------------|-------------|--------------|----------|-----------|
| Mercury - Low Level by CVAFS | | | | | | | |
| Method: CARB 101 | | | | Instr: HG03 | | | |
| Batch ID: W1D0096 | Preparation: EPA 7470A | | Prepared: 04/05/21 15:30 | | Analyst: mem | | |
| Mercury, Total | 0.014 | 0.00027 | 0.0035 | ug/filter | 1 | 04/06/21 | |

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|-------------------------|--------|-----------------------|-------|----------------|-----------|--------------------------|------------|
| Method: EPA 6020 | | | | | | | |
| Batch ID: W1D0017 | | Preparation: CARB 436 | | Instr: ICPMS03 | | Prepared: 04/01/21 10:10 | |
| Aluminum, Total | | 98 | | 27 | ug/filter | 5 | 04/05/21 |
| Antimony, Total | | ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 |
| Arsenic, Total | | ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 |
| Barium, Total | | 4.2 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 |
| Beryllium, Total | | ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 |
| Cadmium, Total | | ND | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 |
| Chromium, Total | | 1.7 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 |
| Cobalt, Total | | ND | 0.054 | 0.54 | ug/filter | 1 | 04/06/21 |
| Copper, Total | | 1.7 | 1.4 | 5.4 | ug/filter | 1 | 04/06/21 J |
| Lead, Total | | 0.32 | 0.11 | 0.54 | ug/filter | 1 | 04/07/21 J |
| Manganese, Total | | 0.87 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 |
| Nickel, Total | | 1.8 | 0.11 | 0.54 | ug/filter | 1 | 04/06/21 |
| Phosphorus, Total | | 26 | 3.1 | 68 | ug/filter | 5 | 04/05/21 J |
| Selenium, Total | | ND | 0.27 | 2.7 | ug/filter | 5 | 04/09/21 |
| Silver, Total | | 0.032 | 0.020 | 0.20 | ug/filter | 1 | 04/06/21 J |
| Thallium, Total | | ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 |
| Vanadium, Total | | ND | 0.18 | 2.7 | ug/filter | 1 | 04/06/21 |
| Zinc, Total | | 2.4 | 2.4 | 22 | ug/filter | 4 | 04/07/21 J |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - Field Reagent Blanks, Alias: M436-Knockout
1C22044-45 (Filter) Sampled: 03/19/21 6:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101

Instr: HG03

Batch ID: W1D0095

Preparation: EPA 7470A

Prepared: 04/04/21 11:45

Analyst: mem

Mercury, Total

ND

0.0039

0.050

ug/filter

1

04/05/21

Sample: M436 - Field Reagent Blanks, Alias: M436-KMnO4
1C22044-46 (Filter) Sampled: 03/19/21 6:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101

Instr: HG03

Batch ID: W1D0096

Preparation: EPA 7470A

Prepared: 04/05/21 15:30

Analyst: mem

Mercury, Total

0.013

0.0039

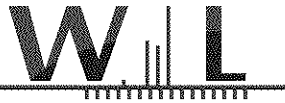
0.050

ug/filter

1

04/06/21

J



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Sample Results

(Continued)

Sample: M436 - Field Blank / Outlet, Alias: M436-Filter
1C22044-47 (Filter) Sampled: 03/19/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101

Instr: HG03

Batch ID: W1D0096

Preparation: EPA 7470A

Prepared: 04/05/21 15:30

Analyst: mem

Mercury, Total

| | | | | | | |
|-------|---------|--------|-----------|---|----------|--|
| 0.016 | 0.00034 | 0.0044 | ug/filter | 1 | 04/06/21 | |
|-------|---------|--------|-----------|---|----------|--|

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Method: EPA 6020

Instr: ICPMS03

Batch ID: W1D0017

Preparation: CARB 436

Prepared: 04/01/21 10:10

Analyst: ALN

Aluminum, Total

| | | | | | | |
|----|--|----|-----------|---|----------|--|
| 92 | | 27 | ug/filter | 5 | 04/05/21 | |
|----|--|----|-----------|---|----------|--|

Antimony, Total

| | | | | | | |
|----|------|-----|-----------|---|----------|--|
| ND | 0.68 | 6.8 | ug/filter | 5 | 04/05/21 | |
|----|------|-----|-----------|---|----------|--|

Arsenic, Total

| | | | | | | |
|----|------|-----|-----------|---|----------|--|
| ND | 0.27 | 2.7 | ug/filter | 5 | 04/05/21 | |
|----|------|-----|-----------|---|----------|--|

Barium, Total

| | | | | | | |
|-----|------|------|-----------|---|----------|--|
| 7.6 | 0.19 | 0.54 | ug/filter | 1 | 04/07/21 | |
|-----|------|------|-----------|---|----------|--|

Beryllium, Total

| | | | | | | |
|----|-----|-----|-----------|---|----------|--|
| ND | 2.3 | 6.8 | ug/filter | 5 | 04/05/21 | |
|----|-----|-----|-----------|---|----------|--|

Cadmium, Total

| | | | | | | |
|------|------|-----|-----------|---|----------|---|
| 0.18 | 0.14 | 2.7 | ug/filter | 5 | 04/05/21 | J |
|------|------|-----|-----------|---|----------|---|

Chromium, Total

| | | | | | | |
|-----|------|------|-----------|---|----------|--|
| 1.8 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
|-----|------|------|-----------|---|----------|--|

Cobalt, Total

| | | | | | | |
|------|-------|------|-----------|---|----------|---|
| 0.37 | 0.054 | 0.54 | ug/filter | 1 | 04/06/21 | J |
|------|-------|------|-----------|---|----------|---|

Copper, Total

| | | | | | | |
|----|-----|-----|-----------|---|----------|--|
| ND | 1.4 | 5.4 | ug/filter | 1 | 04/06/21 | |
|----|-----|-----|-----------|---|----------|--|

Lead, Total

| | | | | | | |
|------|------|------|-----------|---|----------|---|
| 0.31 | 0.11 | 0.54 | ug/filter | 1 | 04/06/21 | J |
|------|------|------|-----------|---|----------|---|

Manganese, Total

| | | | | | | |
|------|------|------|-----------|---|----------|--|
| 0.99 | 0.14 | 0.54 | ug/filter | 1 | 04/06/21 | |
|------|------|------|-----------|---|----------|--|

Nickel, Total

| | | | | | | |
|-----|------|------|-----------|---|----------|--|
| 1.9 | 0.11 | 0.54 | ug/filter | 1 | 04/06/21 | |
|-----|------|------|-----------|---|----------|--|

Phosphorus, Total

| | | | | | | |
|----|-----|----|-----------|---|----------|---|
| 29 | 3.1 | 68 | ug/filter | 5 | 04/05/21 | J |
|----|-----|----|-----------|---|----------|---|

Selenium, Total

| | | | | | | |
|----|------|-----|-----------|---|----------|--|
| ND | 0.27 | 2.7 | ug/filter | 5 | 04/09/21 | |
|----|------|-----|-----------|---|----------|--|

Silver, Total

| | | | | | | |
|-------|-------|------|-----------|---|----------|---|
| 0.033 | 0.020 | 0.20 | ug/filter | 1 | 04/06/21 | J |
|-------|-------|------|-----------|---|----------|---|

Thallium, Total

| | | | | | | |
|----|-------|------|-----------|---|----------|--|
| ND | 0.054 | 0.54 | ug/filter | 1 | 04/07/21 | |
|----|-------|------|-----------|---|----------|--|

Vanadium, Total

| | | | | | | |
|----|------|-----|-----------|---|----------|--|
| ND | 0.18 | 2.7 | ug/filter | 1 | 04/06/21 | |
|----|------|-----|-----------|---|----------|--|

Zinc, Total

| | | | | | | |
|-----|-----|----|-----------|---|----------|---|
| 3.1 | 2.4 | 22 | ug/filter | 4 | 04/07/21 | J |
|-----|-----|----|-----------|---|----------|---|

Sample: M436 - Field Blank / Outlet, Alias: M436-Knockout
1C22044-50 (Filter) Sampled: 03/19/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101

Instr: HG03

Batch ID: W1D0095

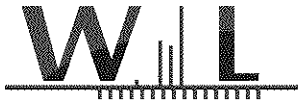
Preparation: EPA 7470A

Prepared: 04/04/21 11:45

Analyst: mem

Mercury, Total

| | | | | | | |
|----|---------|-------|-----------|---|----------|--|
| ND | 0.00078 | 0.010 | ug/filter | 1 | 04/05/21 | |
|----|---------|-------|-----------|---|----------|--|



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Project Number: 21-0883 All American Asphalt

Project Manager: Charles Figueroa

Certificate of Analysis

FINAL REPORT

Reported:
04/09/2021 15:50

Sample Results

(Continued)

Sample: M436 - Field Blank / Outlet, Alias: M436-KMnO4
1C22044-51 (Filter) Sampled: 03/19/21 15:00 by Client

| Analyte | Result | MDL | MRL | Units | Dil | Analyzed | Qualifier |
|---------|--------|-----|-----|-------|-----|----------|-----------|
|---------|--------|-----|-----|-------|-----|----------|-----------|

Mercury - Low Level by CVAFS

Method: CARB 101

Instr: HG03

Batch ID: W1D0095

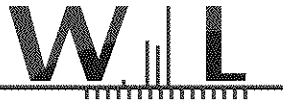
Preparation: EPA 7470A

Prepared: 04/04/21 11:45

Analyst: mem

Mercury, Total

| | | | | | |
|----|--------|-------|-----------|---|----------|
| ND | 0.0039 | 0.050 | ug/filter | 1 | 04/05/21 |
|----|--------|-------|-----------|---|----------|



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

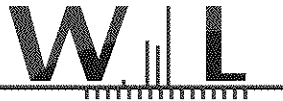
04/09/2021 15:50

Project Manager: Charles Figueroa

Quality Control Results

Mercury - Low Level by CVAFS

| Analyte | Result | MDL | MRL | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Qualifier |
|--|----------|-----------|---------|-----------|--|---------------|------|--------|-----|-----------|-----------|
| Batch: W1C1729 - CARB 101 | | | | | | | | | | | |
| Blank (W1C1729-BLK1) | | | | | Prepared & Analyzed: 03/29/21 | | | | | | |
| Mercury, Total | ND | 0.0000078 | 0.00010 | ug/filter | | | | | | | |
| LCS (W1C1729-BS1) | | | | | Prepared & Analyzed: 03/29/21 | | | | | | |
| Mercury, Total | 0.00105 | 0.0000078 | 0.00010 | ug/filter | 0.00100 | | 105 | 85-115 | | | |
| Matrix Spike (W1C1729-MS1) | | | | | Prepared & Analyzed: 03/29/21 | | | | | | |
| Mercury, Total | 1.33 | 0.0039 | 0.050 | ug/filter | 0.500 | 0.862 | 94 | 70-130 | | | |
| Matrix Spike Dup (W1C1729-MSD1) | | | | | Prepared & Analyzed: 03/29/21 | | | | | | |
| Mercury, Total | 1.32 | 0.0039 | 0.050 | ug/filter | 0.500 | 0.862 | 92 | 70-130 | 0.7 | 30 | |
| Batch: W1C1796 - CARB 101 | | | | | | | | | | | |
| Blank (W1C1796-BLK1) | | | | | Prepared & Analyzed: 03/31/21 | | | | | | |
| Mercury, Total | ND | 0.0000078 | 0.00010 | ug/filter | | | | | | | |
| LCS (W1C1796-BS1) | | | | | Prepared & Analyzed: 03/31/21 | | | | | | |
| Mercury, Total | 0.000976 | 0.0000078 | 0.00010 | ug/filter | 0.00100 | | 98 | 85-115 | | | |
| Matrix Spike (W1C1796-MS1) | | | | | Prepared & Analyzed: 03/31/21 | | | | | | |
| Mercury, Total | 2.37 | 0.0078 | 0.10 | ug/filter | 0.500 | 1.86 | 101 | 70-130 | | | |
| Matrix Spike Dup (W1C1796-MSD1) | | | | | Prepared & Analyzed: 03/31/21 | | | | | | |
| Mercury, Total | 2.37 | 0.0078 | 0.10 | ug/filter | 0.500 | 1.86 | 103 | 70-130 | 0.3 | 30 | |
| Batch: W1D0095 - CARB 101 | | | | | | | | | | | |
| Blank (W1D0095-BLK1) | | | | | Prepared: 04/04/21 Analyzed: 04/05/21 | | | | | | |
| Mercury, Total | ND | 0.0000078 | 0.00010 | ug/filter | | | | | | | |
| LCS (W1D0095-BS1) | | | | | Prepared: 04/04/21 Analyzed: 04/05/21 | | | | | | |
| Mercury, Total | 0.00104 | 0.0000078 | 0.00010 | ug/filter | 0.00100 | | 104 | 85-115 | | | |
| Matrix Spike (W1D0095-MS1) | | | | | Prepared: 04/04/21 Analyzed: 04/05/21 | | | | | | |
| Mercury, Total | 0.501 | 0.0039 | 0.050 | ug/filter | 0.500 | ND | 100 | 70-130 | | | |
| Matrix Spike Dup (W1D0095-MSD1) | | | | | Prepared: 04/04/21 Analyzed: 04/05/21 | | | | | | |
| Mercury, Total | 0.506 | 0.0039 | 0.050 | ug/filter | 0.500 | ND | 101 | 70-130 | 1 | 30 | |
| Batch: W1D0096 - CARB 101 | | | | | | | | | | | |
| Blank (W1D0096-BLK1) | | | | | Prepared: 04/05/21 Analyzed: 04/06/21 | | | | | | |
| Mercury, Total | ND | 0.0000078 | 0.00010 | ug/filter | | | | | | | |
| LCS (W1D0096-BS1) | | | | | Prepared: 04/05/21 Analyzed: 04/06/21 | | | | | | |
| Mercury, Total | 0.00110 | 0.0000078 | 0.00010 | ug/filter | 0.00100 | | 110 | 85-115 | | | |
| Matrix Spike (W1D0096-MS1) | | | | | Prepared: 04/05/21 Analyzed: 04/06/21 | | | | | | |
| Mercury, Total | 1.14 | 0.0039 | 0.050 | ug/filter | 0.500 | 0.640 | 100 | 70-130 | | | |
| Matrix Spike Dup (W1D0096-MSD1) | | | | | Prepared: 04/05/21 Analyzed: 04/06/21 | | | | | | |
| Mercury, Total | 1.14 | 0.0039 | 0.050 | ug/filter | 0.500 | 0.640 | 100 | 70-130 | 0.2 | 30 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

| Analyte | Result | MDL | MRL | Units | Spike Level | Source Result | %REC | Limit | RPD | RPD Limit | Qualifier |
|----------------------------------|--------|-------|------|-----------|---------------------------------------|---------------|------|--------|-----|-----------|-----------|
| Batch: W1C1714 - EPA 6020 | | | | | | | | | | | |
| Blank (W1C1714-BLK1) | | | | | | | | | | | |
| | | | | | Prepared: 03/29/21 Analyzed: 04/05/21 | | | | | | |
| Aluminum, Total | 8.75 | | 10 | ug/filter | | | | | | | J |
| Antimony, Total | ND | 0.25 | 2.5 | ug/filter | | | | | | | |
| Arsenic, Total | ND | 0.10 | 1.0 | ug/filter | | | | | | | |
| Barium, Total | 0.0700 | 0.070 | 0.20 | ug/filter | | | | | | | J |
| Beryllium, Total | ND | 0.85 | 2.5 | ug/filter | | | | | | | |
| Cadmium, Total | ND | 0.050 | 1.0 | ug/filter | | | | | | | |
| Chromium, Total | 0.0538 | 0.050 | 0.20 | ug/filter | | | | | | | J |
| Cobalt, Total | ND | 0.020 | 0.20 | ug/filter | | | | | | | |
| Copper, Total | ND | 0.52 | 2.0 | ug/filter | | | | | | | |
| Lead, Total | ND | 0.040 | 0.20 | ug/filter | | | | | | | |
| Manganese, Total | ND | 0.050 | 0.20 | ug/filter | | | | | | | |
| Nickel, Total | ND | 0.040 | 0.20 | ug/filter | | | | | | | |
| Phosphorus, Total | 3.71 | 1.2 | 25 | ug/filter | | | | | | | J |
| Selenium, Total | ND | 0.10 | 1.0 | ug/filter | | | | | | | |
| Silver, Total | ND | 0.020 | 0.20 | ug/filter | | | | | | | |
| Thallium, Total | ND | 0.020 | 0.20 | ug/filter | | | | | | | |
| Vanadium, Total | ND | 0.068 | 1.0 | ug/filter | | | | | | | |
| Zinc, Total | ND | 0.88 | 8.0 | ug/filter | | | | | | | |
| LCS (W1C1714-BS1) | | | | | | | | | | | |
| | | | | | Prepared: 03/29/21 Analyzed: 04/05/21 | | | | | | |
| Aluminum, Total | 89.9 | | 10 | ug/filter | 85.0 | | 106 | 80-120 | | | |
| Antimony, Total | 4.89 | 0.25 | 2.5 | ug/filter | 5.00 | | 98 | 80-120 | | | |
| Arsenic, Total | 4.44 | 0.10 | 1.0 | ug/filter | 5.00 | | 89 | 80-120 | | | |
| Barium, Total | 4.81 | 0.070 | 0.20 | ug/filter | 5.00 | | 96 | 80-120 | | | |
| Beryllium, Total | 4.44 | 0.85 | 2.5 | ug/filter | 5.00 | | 89 | 80-120 | | | |
| Cadmium, Total | 4.45 | 0.050 | 1.0 | ug/filter | 5.00 | | 89 | 80-120 | | | |
| Chromium, Total | 5.49 | 0.050 | 0.20 | ug/filter | 5.00 | | 110 | 80-120 | | | |
| Cobalt, Total | 5.39 | 0.020 | 0.20 | ug/filter | 5.00 | | 108 | 80-120 | | | |
| Copper, Total | 8.11 | 0.52 | 2.0 | ug/filter | 7.99 | | 102 | 80-120 | | | |
| Lead, Total | 4.73 | 0.040 | 0.20 | ug/filter | 5.00 | | 94 | 80-120 | | | |
| Manganese, Total | 5.36 | 0.050 | 0.20 | ug/filter | 5.00 | | 107 | 80-120 | | | |
| Nickel, Total | 5.14 | 0.040 | 0.20 | ug/filter | 5.00 | | 103 | 80-120 | | | |
| Phosphorus, Total | 46.7 | 1.2 | 25 | ug/filter | 50.0 | | 93 | 80-120 | | | |
| Selenium, Total | 4.19 | 0.10 | 1.0 | ug/filter | 5.00 | | 84 | 80-120 | | | |
| Silver, Total | 4.54 | 0.020 | 0.20 | ug/filter | 5.00 | | 91 | 80-120 | | | |
| Thallium, Total | 4.72 | 0.020 | 0.20 | ug/filter | 5.00 | | 94 | 80-120 | | | |
| Vanadium, Total | 5.36 | 0.068 | 1.0 | ug/filter | 5.00 | | 107 | 80-120 | | | |
| Zinc, Total | 8.09 | 0.88 | 8.0 | ug/filter | 10.0 | | 81 | 80-120 | | | |
| LCS Dup (W1C1714-BSD1) | | | | | | | | | | | |
| | | | | | Prepared: 03/29/21 Analyzed: 04/05/21 | | | | | | |
| Aluminum, Total | 93.4 | | 10 | ug/filter | 85.0 | | 110 | 80-120 | 4 | 20 | |

1C22044

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WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Table with columns: Analyte, Result, MDL, MRL, Units, Spike Level, Source Result, %REC, Limits, RPD, RPD Limit, Qualifier. Includes data for LCS Dup (W1C1714-BSD1) with various metals like Antimony, Arsenic, Barium, etc.

Batch: W1D0017 - EPA 6020

Blank (W1D0017-BLK1)

Prepared: 04/01/21 Analyzed: 04/05/21

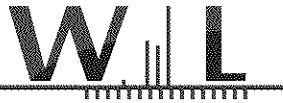
Table with columns: Analyte, Result, MDL, MRL, Units, Spike Level, Source Result, %REC, Limits, RPD, RPD Limit, Qualifier. Includes data for Blank (W1D0017-BLK1) and LCS (W1D0017-BS1).

LCS (W1D0017-BS1)

Prepared: 04/01/21 Analyzed: 04/05/21

Table with columns: Analyte, Result, MDL, MRL, Units, Spike Level, Source Result, %REC, Limits, RPD, RPD Limit, Qualifier. Includes data for LCS (W1D0017-BS1).

1C22044



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
 10602 Walker St
 Cypress, CA 90630

Certificate of Analysis

FINAL REPORT

Project Number: 21-0883 All American Asphalt

Reported:

04/09/2021 15:50

Project Manager: Charles Figueroa

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

| Analyte | Result | MDL | MRL | Units | Spike Level | Source Result | %REC | Limit | RPD | RPD Limit | Qualifier |
|--|--------|-------|------|-----------|--|---------------|------|--------|-----|-----------|-----------|
| Batch: W1D0017 - EPA 6020 (Continued) | | | | | | | | | | | |
| LCS (W1D0017-BS1) | | | | | Prepared: 04/01/21 Analyzed: 04/05/21 | | | | | | |
| Antimony, Total | 4.77 | 0.25 | 2.5 | ug/filter | 5.00 | | 95 | 80-120 | | | |
| Arsenic, Total | 4.43 | 0.10 | 1.0 | ug/filter | 5.00 | | 88 | 80-120 | | | |
| Barium, Total | 4.65 | 0.070 | 0.20 | ug/filter | 5.00 | | 93 | 80-120 | | | |
| Beryllium, Total | 4.59 | 0.85 | 2.5 | ug/filter | 5.00 | | 92 | 80-120 | | | |
| Cadmium, Total | 4.65 | 0.050 | 1.0 | ug/filter | 5.00 | | 93 | 80-120 | | | |
| Chromium, Total | 5.42 | 0.050 | 0.20 | ug/filter | 5.00 | | 108 | 80-120 | | | |
| Cobalt, Total | 5.20 | 0.020 | 0.20 | ug/filter | 5.00 | | 104 | 80-120 | | | |
| Copper, Total | 7.71 | 0.52 | 2.0 | ug/filter | 7.99 | | 96 | 80-120 | | | |
| Lead, Total | 4.66 | 0.040 | 0.20 | ug/filter | 5.00 | | 93 | 80-120 | | | |
| Manganese, Total | 5.48 | 0.050 | 0.20 | ug/filter | 5.00 | | 110 | 80-120 | | | |
| Nickel, Total | 4.86 | 0.040 | 0.20 | ug/filter | 5.00 | | 97 | 80-120 | | | |
| Phosphorus, Total | 46.7 | 1.2 | 25 | ug/filter | 50.0 | | 93 | 80-120 | | | |
| Selenium, Total | 4.11 | 0.10 | 1.0 | ug/filter | 5.00 | | 82 | 80-120 | | | |
| Silver, Total | 4.62 | 0.020 | 0.20 | ug/filter | 5.00 | | 92 | 80-120 | | | |
| Thallium, Total | 4.62 | 0.020 | 0.20 | ug/filter | 5.00 | | 92 | 80-120 | | | |
| Vanadium, Total | 5.51 | 0.068 | 1.0 | ug/filter | 5.00 | | 110 | 80-120 | | | |
| Zinc, Total | 8.18 | 0.88 | 8.0 | ug/filter | 10.0 | | 82 | 80-120 | | | |
| LCS Dup (W1D0017-BSD1) | | | | | Prepared: 04/01/21 Analyzed: 04/05/21 | | | | | | |
| Aluminum, Total | 94.5 | | 10 | ug/filter | 85.0 | | 111 | 80-120 | 5 | 20 | |
| Antimony, Total | 5.06 | 0.25 | 2.5 | ug/filter | 5.00 | | 101 | 80-120 | 6 | 20 | |
| Arsenic, Total | 4.58 | 0.10 | 1.0 | ug/filter | 5.00 | | 91 | 80-120 | 3 | 20 | |
| Barium, Total | 4.93 | 0.070 | 0.20 | ug/filter | 5.00 | | 98 | 80-120 | 6 | 20 | |
| Beryllium, Total | 4.84 | 0.85 | 2.5 | ug/filter | 5.00 | | 97 | 80-120 | 5 | 20 | |
| Cadmium, Total | 5.02 | 0.050 | 1.0 | ug/filter | 5.00 | | 100 | 80-120 | 8 | 20 | |
| Chromium, Total | 5.55 | 0.050 | 0.20 | ug/filter | 5.00 | | 111 | 80-120 | 2 | 20 | |
| Cobalt, Total | 5.42 | 0.020 | 0.20 | ug/filter | 5.00 | | 108 | 80-120 | 4 | 20 | |
| Copper, Total | 7.89 | 0.52 | 2.0 | ug/filter | 7.99 | | 99 | 80-120 | 2 | 20 | |
| Lead, Total | 4.90 | 0.040 | 0.20 | ug/filter | 5.00 | | 98 | 80-120 | 5 | 20 | |
| Manganese, Total | 5.42 | 0.050 | 0.20 | ug/filter | 5.00 | | 108 | 80-120 | 1 | 20 | |
| Nickel, Total | 4.93 | 0.040 | 0.20 | ug/filter | 5.00 | | 99 | 80-120 | 1 | 20 | |
| Phosphorus, Total | 50.4 | 1.2 | 25 | ug/filter | 50.0 | | 101 | 80-120 | 8 | 20 | |
| Selenium, Total | 4.22 | 0.10 | 1.0 | ug/filter | 5.00 | | 84 | 80-120 | 2 | 20 | |
| Silver, Total | 4.73 | 0.020 | 0.20 | ug/filter | 5.00 | | 95 | 80-120 | 2 | 20 | |
| Thallium, Total | 4.83 | 0.020 | 0.20 | ug/filter | 5.00 | | 97 | 80-120 | 5 | 20 | |
| Vanadium, Total | 5.73 | 0.068 | 1.0 | ug/filter | 5.00 | | 114 | 80-120 | 4 | 20 | |
| Zinc, Total | 8.60 | 0.88 | 8.0 | ug/filter | 10.0 | | 86 | 80-120 | 5 | 20 | |



WECK LABORATORIES, INC.

Almega Environmental & Technical Services
10602 Walker St
Cypress, CA 90630

Project Number: 21-0883 All American Asphalt

Project Manager: Charles Figueroa

Certificate of Analysis

FINAL REPORT

Reported:
04/09/2021 15:50



Notes and Definitions

| Item | Definition |
|--------|--|
| J | Estimated conc. detected <MRL and >MDL. |
| M-04 | Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution. |
| %REC | Percent Recovery |
| Dil | Dilution |
| MDL | Method Detection Limit |
| MRL | The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) |
| ND | NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL. |
| RPD | Relative Percent Difference |
| Source | Sample that was matrix spiked or duplicated. |

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Appendix D

Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Parameter PAH

| Date | Nozzle ID | Nozzle Diameter (in.) | | | Dn (Average) | Difference | Criteria | Material |
|------------------------|---------------------|------------------------------|----------------------------|---------------------------------|--------------------------|--------------|-------------|----------|
| | | #1 | #2 | #3 | | | | |
| 3/16/21 | 209 | 0.196 | 0.196 | 0.196 | 0.196 | 0.000 | ≤ 0.004 in. | glass |
| Date | Pitot ID | Evidence of damage? | Evidence of mis-alignment? | Calibration or Repair required? | | | | |
| 3/16/21 | ADP 1 | no | no | no | | | | |
| Date | Probe ID | Reference Temp. (°F) | Indicated Temp. (°F) | Difference | Criteria | Probe Length | | |
| 3/16/21 | PR502-4 | 55.0 | 57.0 | 0.4% | ± 1.5 % (absolute) | 2' | | |
| Field Balance Check | | | | | | | | |
| Date | 03/16/21 | 03/17/21 | 03/18/21 | 03/19/21 | | | | |
| Balance ID: | ML58-1 | ML58-1 | ML58-1 | ML58-1 | | | | |
| Test Weight ID: | SLC-1 KG-2 | SLC-1 KG-2 | SLC-1 KG-2 | SLC-1 KG-2 | | | | |
| Certified Weight (g): | 1000.0 | 1000.0 | 1000.0 | 1000.0 | | | | |
| Measured Weight (g): | 999.9 | 999.8 | 999.9 | 999.7 | | | | |
| Weight Difference (g): | 0.1 | 0.2 | 0.1 | 0.3 | -- | -- | | |
| Date | Barometric Pressure | Evidence of damage? | Reading Verified | Calibration or Repair required? | Weather Station Location | | | |
| 3/16/21 | Weather Station | NA | NA | NA | Irvine, CA | | | |
| Date | Meter Box ID | Positive Pressure Leak Check | | | | | | |
| 3/19/21 | M5-9 | Pass | | | | | | |
| Reagent | Lot# | Field Prep performed | Field Lot | Date | By | | | |
| Acetone | 195346 | No | | | | | | |
| Hexane | 202186 | No | | | | | | |
| Methylene Chloride | 135922 | No | | | | | | |

Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Parameter PAH

| Date | Nozzle ID | Nozzle Diameter (in.) | | | Dn (Average) | Difference | Criteria | Material |
|------------------------|---------------------|------------------------------|----------------------------|---------------------------------|--------------------------|--------------|-------------|----------|
| | | #1 | #2 | #3 | | | | |
| 3/16/21 | G-195-1 | 0.195 | 0.195 | 0.195 | 0.195 | 0.000 | ≤ 0.004 in. | glass |
| Date | Pitot ID | Evidence of damage? | Evidence of mis-alignment? | Calibration or Repair required? | | | | |
| 3/16/21 | PS-2 | no | no | no | | | | |
| Date | Probe ID | Reference Temp. (°F) | Indicated Temp. (°F) | Difference | Criteria | Probe Length | | |
| 3/16/21 | P702-3 | 60.0 | 61.0 | 0.2% | ± 1.5 % (absolute) | -- | | |
| Field Balance Check | | | | | | | | |
| Date | 03/16/21 | 03/17/21 | 03/18/21 | 03/19/21 | | | | |
| Balance ID: | ML58-1 | ML58-1 | ML58-1 | ML58-1 | | | | |
| Test Weight ID: | SLC-1 KG-2 | SLC-1 KG-2 | SLC-1 KG-2 | SLC-1 KG-2 | | | | |
| Certified Weight (g): | 1000.0 | 1000.0 | 1000.0 | 1000.0 | | | | |
| Measured Weight (g): | 999.9 | 999.8 | 999.9 | 999.7 | | | | |
| Weight Difference (g): | 0.1 | 0.2 | 0.1 | 0.3 | -- | -- | | |
| Date | Barometric Pressure | Evidence of damage? | Reading Verified | Calibration or Repair required? | Weather Station Location | | | |
| 3/16/21 | Weather Station | NA | NA | NA | Irvine, CA | | | |
| Date | Meter Box ID | Positive Pressure Leak Check | | | | | | |
| 3/19/21 | M5-30 | Pass | | | | | | |
| Reagent | Lot# | Field Prep performed | Field Lot | Date | By | | | |
| Acetone | 195346 | No | | | | | | |
| Hexane | 202186 | No | | | | | | |
| Methylene Chloride | 135922 | No | | | | | | |

Location All American Asphalt
 Source CAU - Inlet
 Project No. 2021-0883
 Parameter Metals

| Date | Nozzle ID | Nozzle Diameter (in.) | | | Dn (Average) | Difference | Criteria | Material |
|------------------|---------------------|------------------------------|----------------------------|---------------------------------|--------------------------|--------------|-------------|----------|
| | | #1 | #2 | #3 | | | | |
| 3/16/21 | 204 | 0.204 | 0.204 | 0.204 | 0.204 | 0.000 | ≤ 0.004 in. | glass |
| Date | Pitot ID | Evidence of damage? | Evidence of mis-alignment? | Calibration or Repair required? | | | | |
| 3/16/21 | ADP 1 | no | no | no | | | | |
| Date | Probe ID | Reference Temp. (°F) | Indicated Temp. (°F) | Difference | Criteria | Probe Length | | |
| 3/16/21 | PR502-3 | 55.0 | 57.0 | 0.4% | ± 1.5 % (absolute) | 2' | | |
| Date | Barometric Pressure | Evidence of damage? | Reading Verified | Calibration or Repair required? | Weather Station Location | | | |
| 3/16/21 | Weather Station | NA | NA | NA | Irvine, CA | | | |
| Date | Meter Box ID | Positive Pressure Leak Check | | | | | | |
| 3/19/21 | M5-69 | Pass | | | | | | |
| Reagent | Lot# | Field Prep performed | Field Lot | Date | By | | | |
| .1N HNO3 | AST DEN | No | | | | | | |
| 5%/10% HNO3/H2O2 | AST DEN | No | | | | | | |
| KMNO4 | 19037B | No | | | | | | |
| 10%H2SO4 | AST DEN | No | | | | | | |

Location All American Asphalt
 Source CAU - Outlet
 Project No. 2021-0883
 Parameter Metals

| Date | Nozzle ID | Nozzle Diameter (in.) | | | Dn (Average) | Difference | Criteria | Material |
|------------------|---------------------|------------------------------|----------------------------|---------------------------------|--------------------------|--------------|-------------|----------|
| | | #1 | #2 | #3 | | | | |
| 3/16/21 | G-196-1 | 0.196 | 0.196 | 0.197 | 0.196 | 0.001 | ≤ 0.004 in. | glass |
| Date | Pitot ID | Evidence of damage? | Evidence of mis-alignment? | Calibration or Repair required? | | | | |
| 3/16/21 | PS-2 | no | no | no | | | | |
| Date | Probe ID | Reference Temp. (°F) | Indicated Temp. (°F) | Difference | Criteria | Probe Length | | |
| 3/16/21 | P702-3-2 | 65.0 | 66.0 | 0.2% | ± 1.5 % (absolute) | 3' | | |
| Date | Barometric Pressure | Evidence of damage? | Reading Verified | Calibration or Repair required? | Weather Station Location | | | |
| 3/16/21 | Weather Station | NA | NA | NA | Irvine, CA | | | |
| Date | Meter Box ID | Positive Pressure Leak Check | | | | | | |
| 3/19/21 | M5-26 | Pass | | | | | | |
| Reagent | Lot# | Field Prep performed | Field Lot | Date | By | | | |
| .1N HNO3 | AST DEN | No | | | | | | |
| 5%/10% HNO3/H2O2 | AST DEN | No | | | | | | |
| KMNO4 | 190378 | No | | | | | | |
| 10%H2SO4 | AST DEN | No | | | | | | |

Semi-Annual Field Dry Gas Meter Calibration* Calibration Date: 3/13/2021

Orifice Series: 33-73
 Serial Number: AE₁/AE₂
 Cal Type: Semi-Annual
 Calibrated by: JV
 (signature):
 Reviewed by:

DRY GAS METER CALIBRATION FACTOR
Y
Yds = 0.9939

ORIFICE CALIBRATION FACTOR
dH@
dH@ = 1.841

| DRY GAS METER READINGS | | | | QUALITY CONTROL CHECKS | | | | DGM ID: M5-09 | |
|------------------------|------------|--------------|------------|------------------------|----------------|------------------|----------------|-----------------------------|----------|
| DGM INLET | | DGM OUTLET | | Meter Reading | | Orifice Reading | | Serial #: | 16621844 |
| Initial (°F) | Final (°F) | Initial (°F) | Final (°F) | Initial (cu.ft.) | Final (cu.ft.) | Initial (in.H2O) | Final (in.H2O) | Calibration Interval: | |
| 66.0 | 66.0 | 64.0 | 64.0 | 332.994 | 338.699 | 0.110 | 0.110 | Semi-Annual: X | |
| 66.0 | 66.0 | 64.0 | 65.0 | 338.699 | 344.409 | 0.110 | 0.110 | Bi-monthly: | |
| 66.0 | 66.0 | 65.0 | 65.0 | 344.409 | 350.135 | 0.110 | 0.110 | Other: | |
| 67.0 | 67.0 | 64.0 | 64.0 | 315.291 | 321.189 | 0.650 | 0.650 | Standard | |
| 67.0 | 66.0 | 64.0 | 65.0 | 321.189 | 327.094 | 0.650 | 0.650 | Temperature (deg.F) | |
| 66.0 | 66.0 | 65.0 | 64.0 | 327.094 | 332.994 | 0.650 | 0.650 | Tstd = 68 | |
| 68.0 | 68.0 | 64.0 | 64.0 | 299.254 | 304.598 | 1.600 | 1.600 | Barometric | |
| 68.0 | 68.0 | 64.0 | 64.0 | 304.598 | 309.939 | 1.600 | 1.600 | Pressure (in.Hg) | |
| 68.0 | 68.0 | 64.0 | 64.0 | 309.939 | 315.291 | 1.600 | 1.600 | Initial: 25.4 | |
| 66.0 | 66.0 | 63.0 | 63.0 | 280.266 | 286.612 | 3.100 | 3.100 | Final: 25.4 | |
| 66.0 | 67.0 | 63.0 | 64.0 | 286.612 | 292.915 | 3.100 | 3.100 | Pbat _{avg} : 25.40 | |
| 67.0 | 68.0 | 64.0 | 64.0 | 292.915 | 299.254 | 3.100 | 3.100 | | |

| CRITICAL ORIFICE | | | | DRY GAS METER | | | | CALCULATIONS | | | | |
|--------------------|----------------|-----------------------|--------------------|------------------|----------------------|-----------------|----------------|---------------------|----------------------|------------------------|---|----------------------|
| Orifice Series No. | Run Time (min) | Tested Vacuum (in.Hg) | Ambient Temp. (°F) | Orifice K-factor | Corrected | | AVG Temp. (°F) | NET Volume (cu.ft.) | Flowrate Q'fm (SCFM) | Corrected Volume (SCF) | Coefficient Y _{fm,i} (0.95 < Y _{fm,i} < 1.05) | Orifice dH@ (in.H2O) |
| | | | | | Flowrate Q'fm (SCFM) | Volume (cu.ft.) | | | | | | |
| 33 | 28 | 22.50 | 63.0 | 0.1549 | 0.1721 | 4.819 | 65.00 | 5.705 | 0.174 | 4.873 | 0.9888 | 1.814 |
| 33 | 28 | 22.50 | 63.0 | 0.1549 | 0.172 | 4.819 | 65.25 | 5.710 | 0.174 | 4.875 | 0.9884 | 1.813 |
| 33 | 28 | 22.50 | 63.0 | 0.1549 | 0.172 | 4.819 | 65.50 | 5.726 | 0.175 | 4.887 | 0.9861 | 1.812 |
| 52 | 12 | 19.80 | 63.0 | 0.3769 | 0.419 | 5.025 | 65.50 | 5.898 | 0.420 | 5.041 | 0.9967 | 1.814 |
| 52 | 12 | 19.90 | 63.0 | 0.3769 | 0.419 | 5.025 | 65.50 | 5.905 | 0.421 | 5.047 | 0.9956 | 1.814 |
| 52 | 12 | 19.90 | 63.0 | 0.3769 | 0.419 | 5.025 | 65.25 | 5.900 | 0.420 | 5.045 | 0.9959 | 1.815 |
| 63 | 7 | 17.30 | 63.0 | 0.5890 | 0.654 | 4.581 | 66.00 | 5.344 | 0.654 | 4.576 | 1.0010 | 1.837 |
| 63 | 7 | 17.30 | 63.0 | 0.5890 | 0.654 | 4.581 | 66.00 | 5.341 | 0.653 | 4.573 | 1.0016 | 1.837 |
| 63 | 7 | 17.30 | 63.0 | 0.5890 | 0.654 | 4.581 | 66.00 | 5.352 | 0.655 | 4.583 | 0.9995 | 1.837 |
| 73 | 6 | 14.70 | 63.0 | 0.8109 | 0.901 | 5.405 | 64.25 | 6.346 | 0.913 | 5.476 | 0.9872 | 1.900 |
| 73 | 6 | 14.70 | 63.0 | 0.8109 | 0.901 | 5.405 | 65.00 | 6.303 | 0.905 | 5.431 | 0.9953 | 1.898 |
| 73 | 6 | 14.70 | 63.0 | 0.8109 | 0.901 | 5.405 | 65.75 | 6.339 | 0.909 | 5.454 | 0.9911 | 1.895 |

* Critical Orifice used.

Semi-Annual Field Dry Gas Meter Calibration* Calibration Date: 3/13/2021

Orifice Series: 33-73
 Serial Number: AE₁/AE₂
 Cal Type: Semi-Annual

Calibrated by: JV
 (signature):
 Reviewed by:

DRY GAS METER CALIBRATION FACTOR
Y
Yds = 0.9995

ORIFICE CALIBRATION FACTOR
dH@
dH@ = 1.726

| DRY GAS METER READINGS | | | | QUALITY CONTROL CHECKS | | | | DGM ID: M5-26 | |
|------------------------|------------|--------------|------------|------------------------|----------------|------------------|----------------|-----------------------------|----------|
| DGM INLET | | DGM OUTLET | | Meter Reading | | Orifice Reading | | Serial #: | 16621844 |
| Initial (°F) | Final (°F) | Initial (°F) | Final (°F) | Initial (cu.ft.) | Final (cu.ft.) | Initial (in.H2O) | Final (in.H2O) | Calibration Interval: | |
| 61.0 | 62.0 | 61.0 | 62.0 | 471.869 | 477.559 | 0.105 | 0.105 | Semi-Annual: X | |
| 62.0 | 63.0 | 62.0 | 63.0 | 477.559 | 483.250 | 0.105 | 0.105 | Bi-monthly: | |
| 63.0 | 63.0 | 63.0 | 63.0 | 483.250 | 488.941 | 0.105 | 0.105 | Other: | |
| 64.0 | 65.0 | 64.0 | 64.0 | 523.828 | 529.678 | 0.580 | 0.580 | Standard | |
| 65.0 | 66.0 | 64.0 | 65.0 | 529.678 | 535.528 | 0.580 | 0.580 | Temperature (deg.F) | |
| 66.0 | 66.0 | 65.0 | 65.0 | 535.528 | 541.378 | 0.580 | 0.580 | Tstd = 68 | |
| 66.0 | 66.0 | 65.0 | 65.0 | 507.844 | 513.172 | 1.500 | 1.500 | Barometric | |
| 66.0 | 67.0 | 65.0 | 65.0 | 513.172 | 518.500 | 1.500 | 1.500 | Pressure (in.Hg) | |
| 67.0 | 67.0 | 65.0 | 66.0 | 518.500 | 523.828 | 1.500 | 1.500 | Initial: 25.37 | |
| 67.0 | 68.0 | 66.0 | 66.0 | 488.941 | 495.242 | 3.000 | 3.000 | Final: 25.37 | |
| 68.0 | 68.0 | 66.0 | 66.0 | 495.242 | 501.543 | 3.000 | 3.000 | Pbat _{avg} : 25.37 | |
| 68.0 | 69.0 | 66.0 | 67.0 | 501.543 | 507.844 | 3.000 | 3.000 | | |

| CRITICAL ORIFICE | | | | DRY GAS METER | | | | CALCULATIONS | | | |
|--------------------|----------------|-----------------------|--------------------|---------------------------------|---------------------------|----------------|---------------------|---------------------------------|------------------------|---|-----------------------------------|
| Orifice Series No. | Run Time (min) | Tested Vacuum (in.Hg) | Ambient Temp. (°F) | Flowrate Q _{fm} (SCFM) | Corrected Volume (cu.ft.) | AVG Temp. (°F) | NET Volume (cu.ft.) | Flowrate Q _{fm} (SCFM) | Corrected Volume (SCF) | Coefficient Y _{fm,i} (0.95 < Y _{fm,i} < 1.05) | Orifice dH@ _i (in.H2O) |
| | | | | | | | | | | | |
| 33 | 28 | 22.00 | 62.0 | 0.172 | 4.818 | 62.50 | 5.691 | 0.174 | 4.879 | 0.9874 | 1.738 |
| 33 | 28 | 22.00 | 62.0 | 0.172 | 4.818 | 63.00 | 5.691 | 0.174 | 4.874 | 0.9884 | 1.737 |
| 52 | 12 | 19.50 | 62.0 | 0.419 | 5.024 | 64.25 | 5.850 | 0.417 | 5.005 | 1.0037 | 1.621 |
| 52 | 12 | 19.50 | 62.0 | 0.419 | 5.024 | 65.00 | 5.850 | 0.417 | 4.998 | 1.0051 | 1.619 |
| 52 | 12 | 19.50 | 62.0 | 0.419 | 5.024 | 65.50 | 5.850 | 0.416 | 4.993 | 1.0061 | 1.617 |
| 63 | 7 | 17.00 | 62.0 | 0.654 | 4.580 | 65.50 | 5.328 | 0.651 | 4.560 | 1.0043 | 1.722 |
| 63 | 7 | 17.00 | 62.0 | 0.654 | 4.580 | 65.75 | 5.328 | 0.651 | 4.558 | 1.0048 | 1.721 |
| 63 | 7 | 17.00 | 62.0 | 0.654 | 4.580 | 66.25 | 5.328 | 0.650 | 4.553 | 1.0058 | 1.719 |
| 73 | 6 | 13.50 | 62.0 | 0.901 | 5.404 | 66.75 | 6.301 | 0.901 | 5.403 | 1.0002 | 1.828 |
| 73 | 6 | 13.50 | 62.0 | 0.901 | 5.404 | 67.00 | 6.301 | 0.900 | 5.400 | 1.0007 | 1.827 |
| 73 | 6 | 13.50 | 62.0 | 0.901 | 5.404 | 67.50 | 6.301 | 0.899 | 5.395 | 1.0016 | 1.825 |

* Critical Orifice used.

Semi-Annual Field Dry Gas Meter Calibration* Calibration Date: 3/13/2021

Orifice Series: 33-73
 Serial Number: AE₁/AE₂
 Cal Type: Semi-Annual
 Calibrated by: JV
 (signature):
 Reviewed by:

DRY GAS METER CALIBRATION FACTOR
Y
Yds = 0.9958

ORIFICE CALIBRATION FACTOR
dH@
dH@ = 1.887

| DRY GAS METER READINGS | | | | QUALITY CONTROL CHECKS | | | | DGM ID: M5-30 | |
|------------------------|------------|------------------|----------------|------------------------|----------------|--|-------------------|-----------------------------|----------|
| DGM INLET | | DGM OUTLET | | Meter Reading | | Orifice Reading | | Serial #: | 16621844 |
| Initial (°F) | Final (°F) | Initial (cu.ft.) | Final (cu.ft.) | Initial (in.H2O) | Final (in.H2O) | (Y _{fm,max} / Y _{fm,min}) < | Average Coeff (Y) | Calibration Interval: | |
| 67.0 | 67.0 | 144.886 | 150.617 | 0.110 | 0.110 | 0.98 < | 0.988 | Semi-Annual: X | |
| 67.0 | 67.0 | 150.617 | 156.348 | 0.110 | 0.110 | (Y _{fm} / Y _{fm}) | PASS | Bi-monthly: | |
| 67.0 | 67.0 | 156.348 | 162.079 | 0.110 | 0.110 | 1.02 | PASS | Other: | |
| 67.0 | 67.0 | 127.207 | 133.100 | 0.680 | 0.680 | 0.010 ** | PASS | Standard | |
| 67.0 | 67.0 | 133.100 | 138.993 | 0.680 | 0.680 | 0.0000 | PASS | Temperature (deg.F) | |
| 67.0 | 67.0 | 138.993 | 144.886 | 0.680 | 0.680 | 0.0000 | PASS | Tstd = 68 | |
| 66.0 | 66.0 | 99.856 | 105.206 | 1.650 | 1.650 | 0.0000 | PASS | Barometric | |
| 66.0 | 66.0 | 105.206 | 110.556 | 1.650 | 1.650 | 0.0000 | PASS | Pressure (in.Hg) | |
| 66.0 | 66.0 | 110.556 | 115.906 | 1.650 | 1.650 | 0.0000 | PASS | Initial: 25.37 | |
| 66.0 | 66.0 | 80.908 | 87.224 | 3.200 | 3.200 | 0.999 | PASS | Final: 25.4 | |
| 66.0 | 67.0 | 87.224 | 93.540 | 3.200 | 3.200 | 0.0014 | PASS | Pbat _{avg} : 25.39 | |
| 67.0 | 67.0 | 93.540 | 99.856 | 3.200 | 3.200 | PASS | PASS | | |

| CRITICAL ORIFICE | | | | DRY GAS METER | | | | CALCULATIONS | | | |
|--------------------|----------------|-----------------------|--------------------|---------------------------------|---------------------------|----------------|---------------------|---------------------------------|------------------------|---|-----------------------------------|
| Orifice Series No. | Run Time (min) | Tested Vacuum (in.Hg) | Ambient Temp. (°F) | Flowrate Q _{fm} (SCFM) | Corrected Volume (cu.ft.) | AVG Temp. (°F) | NET Volume (cu.ft.) | Flowrate Q _{fm} (SCFM) | Corrected Volume (SCF) | Coefficient Y _{fm,i} (0.95 < Y _{fm,i} < 1.05) | Orifice dH@ _i (in.H2O) |
| | | | | | | | | | | | |
| 33 | 28 | 22.50 | 62.0 | 0.172 | 4.820 | 66.50 | 5.731 | 0.174 | 4.879 | 0.9880 | 1.806 |
| 33 | 28 | 22.50 | 62.0 | 0.172 | 4.820 | 66.50 | 5.731 | 0.174 | 4.879 | 0.9880 | 1.806 |
| 52 | 12 | 20.00 | 62.0 | 0.419 | 5.027 | 66.50 | 5.893 | 0.419 | 5.025 | 1.0004 | 1.892 |
| 52 | 12 | 20.00 | 62.0 | 0.419 | 5.027 | 66.50 | 5.893 | 0.419 | 5.025 | 1.0004 | 1.892 |
| 52 | 12 | 20.00 | 62.0 | 0.419 | 5.027 | 66.50 | 5.893 | 0.419 | 5.025 | 1.0004 | 1.892 |
| 63 | 7 | 17.50 | 62.0 | 0.655 | 4.582 | 65.50 | 5.350 | 0.655 | 4.583 | 0.9998 | 1.894 |
| 63 | 7 | 17.50 | 62.0 | 0.655 | 4.582 | 65.50 | 5.350 | 0.655 | 4.583 | 0.9998 | 1.894 |
| 63 | 7 | 17.50 | 62.0 | 0.655 | 4.582 | 65.50 | 5.350 | 0.655 | 4.583 | 0.9998 | 1.894 |
| 73 | 6 | 16.00 | 62.0 | 0.901 | 5.407 | 65.25 | 6.316 | 0.906 | 5.438 | 0.9944 | 1.957 |
| 73 | 6 | 16.00 | 62.0 | 0.901 | 5.407 | 65.75 | 6.316 | 0.905 | 5.433 | 0.9954 | 1.955 |
| 73 | 6 | 16.00 | 62.0 | 0.901 | 5.407 | 66.00 | 6.316 | 0.905 | 5.430 | 0.9959 | 1.954 |

* Critical Orifice used.

Semi-Annual Field Dry Gas Meter Calibration* Calibration Date: 3/12/2021

Orifice Series: 33-73
 Serial Number: AE_i/AE₂
 Cal Type: Semi-Annual

Calibrated by: GWH
 (signature): GWH
 Reviewed by:

DRY GAS METER CALIBRATION FACTOR
Y
Yds = 0.9850

ORIFICE CALIBRATION FACTOR
dH@
dH@ = 1.930

| DRY GAS METER READINGS | | | | QUALITY CONTROL CHECKS | | | | DGM ID: M5-69 | |
|------------------------|------------|--------------|------------|------------------------|----------------|------------------|----------------|-------------------|-----------------------------------|
| DGM INLET | Final (°F) | DGM OUTLET | Final (°F) | Meter Reading | | Orifice Reading | | Average Coeff (Y) | dH@ _{avg} < (dH@ ± 0.15) |
| | | | | Initial (cu.ft.) | Final (cu.ft.) | Initial (in.H2O) | Final (in.H2O) | | |
| Initial (°F) | NA | Initial (°F) | 64.0 | 940.104 | 945.814 | 0.120 | 0.120 | 0.987 | 1.952 |
| | NA | Final (°F) | 65.0 | 945.814 | 951.498 | 0.120 | 0.120 | PASS | PASS |
| | NA | Initial (°F) | 65.0 | 951.498 | 957.204 | 0.120 | 0.120 | | |
| | NA | Final (°F) | 59.0 | 887.168 | 893.082 | 0.690 | 0.690 | | |
| | NA | Initial (°F) | 60.0 | 893.082 | 898.974 | 0.690 | 0.680 | | |
| | NA | Final (°F) | 61.0 | 898.974 | 904.868 | 0.680 | 0.680 | | |
| | NA | Initial (°F) | 61.0 | 904.868 | 910.235 | 1.700 | 1.700 | | |
| | NA | Final (°F) | 62.0 | 910.235 | 915.609 | 1.700 | 1.700 | | |
| | NA | Initial (°F) | 62.0 | 915.609 | 920.988 | 1.700 | 1.700 | | |
| | NA | Final (°F) | 63.0 | 920.988 | 927.347 | 3.200 | 3.200 | | |
| | NA | Initial (°F) | 63.0 | 927.347 | 933.724 | 3.200 | 3.200 | | |
| | NA | Final (°F) | 63.0 | 933.724 | 940.104 | 3.200 | 3.200 | | |

$(Y_{fm,max} - Y_{fm,min}) < 0.010^{**}$
 $0.98 < (Y_{fm,i} / Y_{fm})$
 Calibration Interval:
 Semi-Annual: X
 Bi-monthly:
 Other:
 Standard Temperature (deg.F)
 Tstd = 68
 Barometric Pressure (in.Hg)
 Initial: 25.86
 Final: 25.86
 Pbat_{avg}: 25.86

| Orifice Series No. | Run Time (min) | CRITICAL ORIFICE | | | | DRY GAS METER | | | | CALCULATIONS | |
|--------------------|----------------|-----------------------|--------------------|------------------|---------------------------------|----------------|---------------------|---------------------------------|------------------------|---|-----------------------------------|
| | | Tested Vacuum (in.Hg) | Ambient Temp. (°F) | Orifice K-factor | Flowrate Q _{fm} (SCFM) | AVG Temp. (°F) | NET Volume (cu.ft.) | Flowrate Q _{fm} (SCFM) | Corrected Volume (SCF) | Coefficient Y _{fm,i} (0.95 < Y _{fm,i} < 1.05) | Orifice dH@ _i (in.H2O) |
| | | | | | | | | | | | |
| 33 | 28 | 21.50 | 65.0 | 0.1549 | 0.1749 | 64.00 | 5.710 | 0.178 | 4.976 | 0.9841 | 1.955 |
| 33 | 28 | 21.50 | 65.0 | 0.1549 | 0.175 | 64.50 | 5.684 | 0.177 | 4.948 | 0.9896 | 1.953 |
| 33 | 28 | 21.50 | 65.0 | 0.1549 | 0.175 | 65.50 | 5.706 | 0.177 | 4.958 | 0.9876 | 1.949 |
| 52 | 12 | 19.50 | 62.0 | 0.3769 | 0.427 | 59.00 | 5.914 | 0.434 | 5.211 | 0.9826 | 1.912 |
| 52 | 12 | 19.50 | 62.0 | 0.3769 | 0.427 | 60.50 | 5.892 | 0.431 | 5.177 | 0.9891 | 1.893 |
| 52 | 12 | 19.50 | 63.0 | 0.3769 | 0.426 | 61.00 | 5.894 | 0.431 | 5.174 | 0.9888 | 1.881 |
| 63 | 7 | 17.50 | 63.0 | 0.5890 | 0.666 | 61.00 | 5.367 | 0.675 | 4.725 | 0.9871 | 1.936 |
| 63 | 7 | 17.50 | 64.0 | 0.5890 | 0.666 | 61.50 | 5.374 | 0.675 | 4.726 | 0.9858 | 1.938 |
| 63 | 7 | 17.50 | 64.0 | 0.5890 | 0.666 | 62.00 | 5.379 | 0.675 | 4.726 | 0.9858 | 1.936 |
| 73 | 6 | 15.00 | 64.0 | 0.8109 | 0.916 | 62.50 | 6.359 | 0.934 | 5.606 | 0.9808 | 1.938 |
| 73 | 6 | 15.00 | 64.0 | 0.8109 | 0.916 | 63.00 | 6.377 | 0.936 | 5.616 | 0.9790 | 1.936 |
| 73 | 6 | 15.00 | 64.0 | 0.8109 | 0.916 | 63.50 | 6.380 | 0.936 | 5.613 | 0.9795 | 1.934 |

* Critical Orifice used.

Appendix E

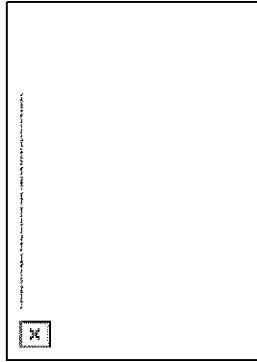
Charles Figueroa

From: John Gardner <jgardner@allamericanasphalt.com>
Sent: Monday, March 29, 2021 10:27 AM
To: Charles Figueroa
Cc: Austin Keough; Scott Taylor
Subject: RE: Testing follow up

Good morning Charles,

- 17th = [REDACTED] of material processed.
- 18th = [REDACTED] of material processed.
- 19th = [REDACTED] of material processed.

Thank you,



John Gardner
All American Asphalt
jgardner@allamericanasphalt.com
Office (951) 736-3844
Cell (951) 232-4145

From: Charles Figueroa [mailto:charles.figueroa@stacktest.com]
Sent: Wednesday, March 24, 2021 11:13 AM
To: John Gardner <jgardner@allamericanasphalt.com>

Cc: Austin Keough <austin.keough@stacktest.com>; Scott Taylor <scott.taylor@taylorresinc.com>
Subject: Testing follow up

John

Following up on the testing performed last week




As discussed we will need the "Total quantity of material processed during our testing" .
Also useful would be a description of the product and the associated ingredients (oil and crumb rubber batch description)

Thanks

Test times for your info:

- 3/17 05:52 – 14:37
- 3/18 04:40 – 12:46
- 3/19 04:40 – 12:49

Thanks

Charles M. Figueroa
Field Technical Director
Direct: 714-889-4000 | Mobile: 714-809-9681
10602 Walker Street | Cypress, CA 90630

[Click here](#) to report this email as spam.

Process temps:

While loading operation active:

Exhaust temp at the reaction/holding tank between the condenser and the steel wool filter:

~ 240 deg F

Feed line of the asphalt oil into the mixing tank:

~ 390 deg F

Appendix F

Location: All American Asphalt Inlet Metals Start Time: 5:52 Source: _____
 Date: 3/17/21 Run 1 End Time: 14:37 Project No.: _____ Parameter: _____

| STACK DATA (EST) | EQUIPMENT | STACK DATA (EST) | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA |
|----------------------------------|---------------------------------|---|----------------------|----------------------------------|--------------|
| Moisture: <u>5</u> % est. | Meter Box ID: <u>m5-69</u> | Est. Tm: _____ °F | | Pb: <u>29.52</u> in. Hg | Vlc (ml) |
| Barometric: <u>29.52</u> in. Hg | Y: <u>1985</u> | Est. Ts: <u>69</u> °F | | Pg: <u>-1.8</u> in. WC | |
| Static Press: <u>-1.8</u> in. WC | ΔH @ (in. WC): <u>1.93</u> | Est. ΔP: <u>.64</u> in. WC | | CO ₂ : <u>0</u> % | K-FACTOR |
| Stack Press: _____ in. Hg | Probe ID: <u>PR502-3</u> | Est. Dn: <u>.212</u> in. | | O ₂ : <u>20.9</u> % | |
| CO ₂ : <u>0</u> % | Liner Material: <u>Quest-2</u> | Target Rate: <u>.75</u> scfm | | Check Pt. Initial Final Corr. | |
| O ₂ : <u>20.9</u> % | Pitot ID: <u>ADP2</u> | LEAK CHECKS | | | Mid 1 (cf) - |
| N ₂ /CO: _____ % | Pitot Cp/Type: <u>.99 Stand</u> | Leak Rate (cfm): <u>.607</u> <u>.0635</u> | Pre Mid 1 Mid 2 Post | Mid 2 (cf) - | |
| Md: _____ lb/lb-mole | Nozzle ID: <u>.204</u> | Vacuum (in Hg): <u>12</u> <u>10</u> <u>6</u> | | Mid 3 (cf) - | |
| Ms: _____ lb/lb-mole | Nozzle Dn (in.): <u>.204</u> | Pitot Tube: <u>Pass</u> <u>Pass</u> <u>Pass</u> | | Mid-Point Leak Check Vol (cf): - | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|-----|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0 | 20 | 959.521 | .64 | 42 | 46 | 1.61 | 1.6 | 4 | 250 | 250 | 42 | | - | |
| 2 | 20 | 40 | 974.280 | .76 | 42 | 47 | 1.76 | 1.8 | 4 | 250 | 250 | 43 | | - | |
| 3 | 40 | 60 | 988.710 | .72 | 44 | 46 | 1.86 | 1.8 | 4 | 250 | 250 | 51 | | - | |
| 4 | 60 | 80 | 1003.25 | .75 | 45 | 46 | 1.9 | 1.9 | 4 | 250 | 249 | 55 | | - | |
| 5 | 80 | 100 | 1018.56 | .80 | 47 | 46 | 2.03 | 2.0 | 4 | 251 | 250 | 54 | | - | |
| 6 | 100 | 120 | 1034.19 | .85 | 48 | 47 | 2.16 | 2.2 | 4 | 251 | 250 | 56 | | - | |
| 7 | 120 | 140 | 1051.27 | .85 | 49 | 47 | 2.16 | 2.2 | 4 | 250 | 250 | 58 | | - | |
| 8 | 140 | 160 | 1067.21 | .86 | 50 | 50 | 2.18 | 2.2 | 5 | 250 | 250 | 55 | | - | |
| 9 | 160 | 180 | 1083.67 | .86 | 52 | 51 | 2.18 | 2.2 | 5 | 250 | 250 | 52 | | - | |
| 10 | 180 | 200 | 1099.74 | .86 | 53 | 53 | 2.18 | 2.2 | 5 | 250 | 250 | 53 | | - | |
| 11 | 200 | 220 | 1116.46 | .88 | 55 | 54 | 2.23 | 2.3 | 5 | 250 | 250 | 55 | | - | |
| 12 | 220 | 240 | 1132.86 | .89 | 56 | 59 | 2.24 | 2.3 | 5 | 251 | 250 | 49 | | - | |
| 01 | 240 | 260 | 1149.45 | .72 | 57 | 68 | 1.79 | 1.8 | 5 | 247 | 249 | 49 | | - | |
| 2 | 260 | 280 | 1164.47 | .75 | 62 | 70 | 1.87 | 1.9 | 5 | 249 | 250 | 48 | | - | |
| 3 | 280 | 300 | 1179.82 | .78 | 66 | 72 | 1.95 | 2 | 5 | 251 | 251 | 55 | | - | |
| 4 | 300 | 320 | 1195.76 | .81 | 69 | 74 | 2.03 | 2 | 5 | 250 | 251 | 55 | | - | |
| 5 | 320 | 340 | 1211.96 | .82 | 73 | 77 | 2.06 | 2.1 | 5 | 249 | 248 | 53 | | - | |
| 6 | 340 | 360 | 1228.55 | .85 | 75 | 78 | 2.14 | 2.1 | 5 | 251 | 251 | 53 | | - | |
| 7 | 360 | 380 | 1244.99 | .86 | 77 | 80 | 2.17 | 2.2 | 5 | 249 | 253 | 53 | | - | |
| 8 | 380 | 400 | 1261.81 | .85 | 80 | 81 | 2.15 | 2.2 | 5 | 249 | 246 | 53 | | - | |
| 9 | 400 | 420 | 1278.61 | .81 | 82 | 83 | 2.05 | 2.1 | 5 | 249 | 248 | 50 | | - | |
| 10 | 420 | 440 | 1295.67 | .74 | 80 | 79 | 1.89 | 1.9 | 5 | 250 | 248 | 50 | | - | |
| 11 | 440 | 460 | 1311.75 | .72 | 81 | 77 | 1.84 | 1.8 | 5 | 252 | 252 | 49 | | - | |
| 12 | 460 | 480 | 1327.650 | .71 | 80 | 75 | 1.82 | 1.8 | 5 | 249 | 250 | 51 | | - | |
| | | | 1343.859 | | | | | | | | | | | | |

Final DGM:

| | | | | | |
|---|---------------------------------|------------------------------|-------------|--|----------------------------------|
| Location: <u>All American Inlet PAH</u> | | Start Time: <u>5:52</u> | | Source: _____ | |
| Date: <u>3/17/21</u> | Run 1 | End Time: <u>14:37</u> | | Project No.: | Parameter: |
| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | |
| Moisture: <u>5</u> % est. | Meter Box ID: <u>M5-9</u> | Est. Tm: <u>60</u> °F | Filter No.: | Stack Data (Final) Pb: <u>29.52</u> in. Hg | Moist. Data Vlc (ml) |
| Barometric: _____ in. Hg | Y: <u>1993</u> | Est. Ts: <u>60</u> °F | | Pg: <u>7.8</u> in. WC | |
| Static Press: _____ in. WC | ΔH @ (in. WC): <u>1.841</u> | Est. ΔP: <u>1.9</u> in. WC | | CO ₂ : <u>0</u> % | K-FACTOR |
| Stack Press: _____ in. Hg | Probe ID: <u>PR502-4</u> | Est. Dn: <u>1212</u> in. | | O ₂ : <u>20.9</u> % | |
| CO ₂ : _____ % | Liner Material: <u>Quartz</u> | Target Rate: <u>175</u> scfm | | Check Pt. Initial Final Corr. | |
| O ₂ : _____ % | Pitot ID: <u>ADP1</u> | LEAK CHECKS | | | Mid 1 (cf) - |
| N ₂ /CO: _____ % | Pitot Cp/Type: <u>199 Stand</u> | Pre | Mid 1 | Mid 2 | Mid 2 (cf) - |
| Md: _____ lb/lb-mole | Nozzle ID: <u>1209</u> | Leak Rate (cfm): <u>.003</u> | <u>.005</u> | <u>.003</u> | Mid 3 (cf) - |
| Ms: _____ lb/lb-mole | Nozzle Dn (in.): <u>1196</u> | Vacuum (in Hg): <u>12</u> | <u>10</u> | <u>10</u> | Mid-Point Leak Check Vol (cf): - |
| | | Pitot Tube: <u>Pass</u> | | <u>Pass</u> | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|-----|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | | | | | | |
| A1 | | | 352.794 | 1.4 | 44 | 46 | 1.31 | 1.3 | 5 | 255 | 249 | 47 | 47 | - | - |
| 2 | | | 366.420 | .76 | 47 | 47 | 1.44 | 1.4 | 5 | 250 | 252 | 58 | 44 | - | - |
| 3 | | | 381.026 | .72 | 51 | 46 | 1.50 | 1.5 | 5 | 230 | 250 | 59 | 44 | - | - |
| 4 | | | 395.95 | .75 | 53 | 47 | 1.56 | 1.6 | 5 | 250 | 251 | 55 | 44 | - | - |
| 5 | | | 409.17 | .80 | 55 | 46 | 1.68 | 1.7 | 7 | 250 | 253 | 51 | 44 | - | - |
| 6 | | | 423.02 | .85 | 56 | 47 | 1.78 | 1.8 | 7 | 250 | 253 | 51 | 44 | - | - |
| 7 | | | 438.95 | .85 | 59 | 49 | 1.79 | 1.8 | 7 | 250 | 249 | 52 | 47 | - | - |
| 8 | | | 453.73 | .86 | 50 | 60 | 1.74 | 1.8 | 7 | 250 | 251 | 52 | 47 | - | - |
| 9 | | | 469.63 | .86 | 61 | 51 | 1.81 | 1.8 | 7 | 250 | 249 | 52 | 48 | - | - |
| 10 | | | 483.73 | .86 | 62 | 53 | 1.8 | 1.8 | 7 | 250 | 248 | 53 | 50 | - | - |
| 11 | | | 498.85 | .88 | 65 | 54 | 1.85 | 1.9 | 7 | 250 | 249 | 54 | 51 | - | - |
| 12 | | | 513.92 | .89 | 67 | 57 | 1.87 | 1.9 | 7 | 251 | 249 | 52 | 51 | - | - |
| B1 | | | 529.110 | .72 | 69 | 68 | 1.49 | 1.5 | 7 | 250 | 250 | 49 | 59 | - | - |
| 2 | | | 543.39 | .75 | 61 | 70 | 1.52 | 1.5 | 7 | 250 | 251 | 59 | 39 | - | - |
| 3 | | | 557.95 | .78 | 76 | 72 | 1.62 | 1.6 | 7 | 249 | 252 | 55 | 39 | - | - |
| 4 | | | 572.74 | .81 | 80 | 74 | 1.69 | 1.7 | 7 | 250 | 248 | 51 | 40 | - | - |
| 5 | | | 587.75 | .82 | 82 | 77 | 1.71 | 1.7 | 7 | 251 | 249 | 56 | 42 | - | - |
| 6 | | | 602.420 | .85 | 84 | 78 | 1.77 | 1.8 | 7 | 250 | 253 | 57 | 44 | - | - |
| 7 | | | 617.620 | .86 | 84 | 80 | 1.79 | 1.8 | 7 | 250 | 250 | 58 | 45 | - | - |
| 8 | | | 632.75 | .85 | 86 | 80 | 1.77 | 1.8 | 7 | 249 | 249 | 57 | 49 | - | - |
| 9 | | | 647.96 | .81 | 87 | 83 | 1.68 | 1.7 | 7 | 250 | 250 | 55 | 40 | - | - |
| 10 | | | 663.42 | .74 | 88 | 80 | 1.55 | 1.6 | 7 | 250 | 250 | 57 | 42 | - | - |
| 11 | | | 678.34 | .72 | 86 | 76 | 1.51 | 1.5 | 7 | 251 | 250 | 55 | 41 | - | - |
| 12 | | | 693.01 | .71 | 86 | 75 | 1.49 | 1.5 | 7 | 250 | 251 | 53 | 43 | - | - |
| | | | 767.201 | | | | | | | | | | | | |
| Final DGM: | | | | | | | | | | | | | | | |

Location: AAA Inlet Metals Start Time: 4:40 Source: _____
 Date: 3/18/21 Run R End Time: 12:46 Project No.: _____ Parameter: _____

| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | | | |
|-----------------------------|--|--------------------------------|--|------------------------------|--|------------|--|--------------------------------|-------|-------------|------|--------------------------------|---|
| Moisture: <u>1</u> % est. | | Meter Box ID: <u>M5-69</u> | | Est. Tm: <u>61</u> °F | | | | Pb: <u>29.55</u> in. Hg | | Vlc (ml) | | | |
| Barometric: _____ in. Hg | | Y: <u>1985</u> | | Est. Ts: <u>63</u> °F | | | | Pg: <u>-.8</u> in. WC | | | | | |
| Static Press: _____ in. WC | | AH @ (in. WC): <u>1.93</u> | | Est. AP: <u>.8</u> in. WC | | | | CO ₂ : <u>0</u> % | | K-FACTOR | | | |
| Stack Press: _____ in. Hg | | Probe ID: <u>PR502-3</u> | | Est. Dn: <u>.197</u> in. | | | | O ₂ : <u>20.9</u> % | | | | | |
| CO ₂ : _____ % | | Liner Material: <u>Quartz</u> | | Target Rate: <u>.75</u> scfm | | | | Check Pt. Initial Final Corr. | | | | | |
| O ₂ : _____ % | | Pitot ID: <u>ADP4</u> | | LEAK CHECKS | | | | Pre | Mid 1 | Mid 2 | Post | Mid 1 (cf) | - |
| N ₂ /CO: _____ % | | Pitot Cp/Type: <u>99 Stand</u> | | Leak Rate (cfm): <u>0</u> | | | | | | | | Mid 2 (cf) | - |
| Md: _____ lb/lb-mole | | Nozzle ID: <u>.204</u> | | Vacuum (in Hg): <u>8</u> | | | | | | | | Mid 3 (cf) | - |
| Ms: _____ lb/lb-mole | | Nozzle Dn (in.): <u>.204</u> | | Pitot Tube: <u>Pass</u> | | | | | | | | Mid-Point Leak Check Vol (cf): | - |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|-----|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | | | | | | | | | | | |
| A1 | 0 | 20 | 343.716 | .65 | 45 | 47 | 1.76 | 1.8 | 3 | 251 | 250 | 46 | | - | |
| 2 | 20 | 40 | 358.21 | .67 | 46 | 52 | 1.8 | 1.8 | 3 | 250 | 251 | 46 | | - | |
| 3 | 40 | 60 | 373.820 | .68 | 47 | 53 | 1.82 | 1.8 | 3 | 251 | 249 | 55 | | - | |
| 4 | 60 | 80 | 387.52 | .69 | 49 | 53 | 1.86 | 1.9 | 3 | 249 | 250 | 51 | | - | |
| 5 | 80 | 100 | 402.71 | .71 | 50 | 53 | 1.91 | 1.9 | 3 | 250 | 248 | 47 | | - | |
| 6 | 100 | 120 | 417.67 | .74 | 50 | 54 | 1.99 | 2.0 | 3 | 249 | 249 | 47 | | - | |
| 7 | 120 | 140 | 432.71 | .73 | 51 | 54 | 1.97 | 2.0 | 3 | 250 | 250 | 48 | | - | |
| 8 | 140 | 160 | 448.15 | .71 | 52 | 54 | 1.92 | 1.9 | 3 | 249 | 249 | 48 | | - | |
| 9 | 160 | 180 | 464.07 | .69 | 52 | 55 | 1.86 | 1.9 | 3 | 251 | 250 | 48 | | - | |
| 10 | 180 | 200 | 478.83 | .68 | 53 | 56 | 1.83 | 1.8 | 3 | 251 | 252 | 49 | | - | |
| 11 | 200 | 220 | 494.27 | .69 | 53 | 57 | 1.86 | 1.9 | 3 | 250 | 251 | 49 | | - | |
| 12 | 220 | 240 | 509.720 | .68 | 54 | 58 | 1.83 | 1.8 | 3 | 252 | 250 | 50 | | - | |
| B1 | 240 | 260 | 524.60 | .70 | 56 | 59 | 1.89 | 1.9 | 3 | 249 | 250 | 50 | | - | |
| 2 | 260 | 280 | 539.43 | .73 | 58 | 54 | 1.99 | 2.0 | 3 | 247 | 251 | 48 | | - | |
| 3 | 280 | 300 | 556.04 | .76 | 59 | 55 | 2.08 | 2.1 | 3 | 253 | 252 | 51 | | - | |
| 4 | 300 | 320 | 578.86 | .78 | 60 | 57 | 2.13 | 2.10 | 3 | 248 | 251 | 52 | | - | |
| 5 | 320 | 340 | 587.19 | .77 | 62 | 58 | 2.10 | 2.1 | 3 | 251 | 248 | 53 | | - | |
| 6 | 340 | 360 | 603.57 | .78 | 64 | 58 | 2.14 | 2.2 | 3 | 251 | 250 | 54 | | - | |
| 7 | 360 | 380 | 619.32 | .76 | 67 | 62 | 2.08 | 2.1 | 3 | 249 | 249 | 56 | | - | |
| 8 | 380 | 400 | 636.03 | .72 | 69 | 63 | 1.97 | 2.0 | 3 | 251 | 249 | 56 | | - | |
| 9 | 400 | 420 | 652.02 | .71 | 72 | 68 | 1.94 | 2 | 3 | 251 | 254 | 58 | | - | |
| 10 | 420 | 440 | 667.64 | .70 | 75 | 74 | 1.9 | 1.9 | 3 | 248 | 247 | 52 | | - | |
| 11 | 440 | 460 | 683.74 | .70 | 77 | 69 | 1.93 | 1.9 | 3 | 250 | 247 | 57 | | - | |
| 12 | 460 | 480 | 699.42 | .69 | 79 | 80 | 1.87 | 1.9 | 3 | 251 | 250 | 51 | | - | |
| | 480 | | 716.212 | | | | | | | | | | | | |

Final DGM: _____

| | | | |
|--------------------------------|--------------|-------------------------|--------------------|
| Location: <u>AAA Inlet PAH</u> | | Start Time: <u>4:40</u> | Source: _____ |
| Date: <u>3/18/21</u> | Run <u>B</u> | End Time: <u>1246</u> | Project No.: _____ |
| Parameter: _____ | | | |

| STACK DATA (EST) | EQUIPMENT | STACK DATA (EST) | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA |
|-----------------------------|---------------------------------|------------------------------|------------|----------------------------------|--------------|
| Moisture: <u>1</u> % est. | Meter Box ID: <u>M5-9</u> | Est. Tm: _____ °F | | Pb: <u>29.55</u> in. Hg | Vlc (ml) |
| Barometric: _____ in. Hg | Y: <u>1993</u> | Est. Ts: _____ °F | | Pg: <u>-1.8</u> in. WC | |
| Static Press: _____ in. WC | ΔH @ (in. WC): <u>1.841</u> | Est. ΔP: _____ in. WC | | CO ₂ : <u>0</u> % | K-FACTOR |
| Stack Press: _____ in. Hg | Probe ID: <u>PR502-4</u> | Est. Dn: _____ in. | | O ₂ : <u>20.9</u> % | |
| CO ₂ : _____ % | Liner Material: <u>Quartz</u> | Target Rate: _____ scfm | | Check Pt. Initial Final Corr. | |
| O ₂ : _____ % | Pitot ID: <u>ADP 1</u> | LEAK CHECKS | | | Mid 1 (cf) - |
| N ₂ /CO: _____ % | Pitot Cp/Type: <u>.99 Stand</u> | Pre | Mid 1 | Mid 2 | Post |
| Md: _____ lb/lb-mole | Nozzle ID: <u>.209</u> | Leak Rate (cfm): <u>.684</u> | | | |
| Ms: _____ lb/lb-mole | Nozzle Dn (in.): <u>1.96</u> | Vacuum (in Hg): <u>11</u> | | | |
| | | Pitot Tube: <u>Pass</u> | | | |
| | | | | Mid 2 (cf) - | |
| | | | | Mid 3 (cf) - | |
| | | | | Mid-Point Leak Check Vol (cf): - | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|-----|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | | | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | Begin | End | | | Amb. | Amb. | Amb. | Amb. | | Amb. | Amb. | | | | |
| A1 | | | 707.524 | .65 | 46 | 47 | 1.43 | 1.4 | 7 | 252 | 252 | 43 | 48 | - | - |
| 2 | | | 721.06 | .67 | 51 | 52 | 1.47 | 1.5 | 7 | 250 | 248 | 51 | 47 | - | - |
| 3 | | | 735.46 | .68 | 55 | 53 | 1.51 | 1.5 | 7 | 250 | 250 | 54 | 46 | - | - |
| 4 | | | 748.71 | .69 | 66 | 53 | 1.56 | 1.6 | 8 | 251 | 251 | 53 | 46 | - | - |
| 5 | | | 763.020 | .71 | 67 | 53 | 1.61 | 1.6 | 8 | 250 | 251 | 51 | 46 | - | - |
| 6 | | | 777.41 | .74 | 57 | 54 | 1.64 | 1.7 | 8 | 250 | 251 | 53 | 48 | - | - |
| 7 | | | 791.35 | .73 | 57 | 54 | 1.62 | 1.6 | 8 | 250 | 250 | 53 | 47 | - | - |
| 8 | | | 806.05 | .71 | 59 | 54 | 1.58 | 1.6 | 8 | 230 | 251 | 52 | 47 | - | - |
| 9 | | | 820.51 | .69 | 60 | 55 | 1.54 | 1.5 | 8 | 250 | 252 | 52 | 48 | - | - |
| 10 | | | 835.04 | .68 | 61 | 56 | 1.51 | 1.5 | 8 | 250 | 251 | 52 | 49 | - | - |
| 11 | | | 849.27 | .69 | 61 | 57 | 1.53 | 1.5 | 8 | 250 | 253 | 52 | 49 | - | - |
| 12 | | | 864.11 | .68 | 64 | 58 | 1.52 | 1.5 | 8 | 249 | 249 | 54 | 52 | - | - |
| B1 | | | 878.101 | .78 | 66 | 58 | 1.57 | 1.6 | 8 | 249 | 250 | 50 | 44 | - | - |
| 2 | | | 892.41 | .73 | 66 | 55 | 1.64 | 1.6 | 9 | 249 | 251 | 50 | 44 | - | - |
| 3 | | | 907.71 | .76 | 71 | 55 | 1.73 | 1.7 | 9 | 250 | 252 | 47 | 48 | - | - |
| 4 | | | 922.72 | .78 | 72 | 56 | 1.77 | 1.8 | 9 | 250 | 250 | 45 | 47 | - | - |
| 5 | | | 936.99 | .77 | 72 | 57 | 1.75 | 1.8 | 9 | 250 | 252 | 52 | 53 | - | - |
| 6 | | | 951.34 | .78 | 73 | 59 | 1.77 | 1.8 | 9 | 249 | 251 | 54 | 52 | - | - |
| 7 | | | 966.42 | .76 | 77 | 61 | 1.73 | 1.7 | 9 | 251 | 250 | 56 | 49 | - | - |
| 8 | | | 982.33 | .72 | 79 | 62 | 1.64 | 1.7 | 9 | 250 | 250 | 52 | 49 | - | - |
| 9 | | | 997.15 | .71 | 82 | 68 | 1.59 | 1.6 | 9 | 250 | 251 | 47 | 44 | - | - |
| 10 | | | 1012.45 | .70 | 85 | 74 | 1.58 | 1.6 | 9 | 251 | 251 | 38 | 41 | - | - |
| 11 | | | 1028.50 | .70 | 86 | 69 | 1.59 | 1.6 | 9 | 251 | 251 | 39 | 42 | - | - |
| 12 | | | 1049.01 | .69 | 86 | 80 | 1.54 | 1.5 | 9 | 251 | 252 | 30 | 40 | - | - |
| | | | 1052.858 | | | | | | | | | | | | |

Final DGM: _____

Location: AAA Inlet PAH Start Time: 4:40 Source: _____ Parameter: _____
 Date: 3/19/21 Run 3 End Time: 12:45 Project No.: _____

| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | | | |
|-----------------------------|--|---------------------------------|--|------------------------------|--|------------|--|--------------------------------|-------|-------------|--------------------------------|------------|-------|
| Moisture: <u>1</u> % est. | | Meter Box ID: <u>M5-9</u> | | Est. Tm: <u>67</u> °F | | | | Pb: <u>29.59</u> in. Hg | | Vlc (ml) | | | |
| Barometric: _____ in. Hg | | Y: <u>.993</u> | | Est. Ts: <u>59</u> °F | | | | Pg: <u>7.8</u> in. WC | | K-FACTOR | | | |
| Static Press: _____ in. WC | | AH @ (in. WC): <u>1.841</u> | | Est. ΔP: <u>.171</u> in. WC | | | | CO ₂ : <u>0</u> % | | | | | |
| Stack Press: _____ in. Hg | | Probe ID: <u>PR205-4</u> | | Est. Dn: <u>.201</u> in. | | | | O ₂ : <u>20.9</u> % | | | | | |
| CO ₂ : _____ % | | Liner Material: <u>QUARTZ</u> | | Target Rate: <u>.75</u> scfm | | | | | | Check Pt. | Initial | Final | Corr. |
| O ₂ : _____ % | | Pitot ID: <u>ADP 1</u> | | LEAK CHECKS | | | | Pre | Mid 1 | Mid 2 | Post | Mid 1 (cf) | - |
| N ₂ /CO: _____ % | | Pitot Cp/Type: <u>.99 Stand</u> | | Leak Rate (cfm): <u>0</u> | | | | | | | Mid 2 (cf) | - | |
| Md: _____ lb/lb-mole | | Nozzle ID: <u>.209</u> | | Vacuum (in Hg): <u>.12</u> | | | | | | | Mid 3 (cf) | - | |
| Ms: _____ lb/lb-mole | | Nozzle Dn (in.): <u>.190</u> | | Pitot Tube: <u>Pa25</u> | | | | | | | Mid-Point Leak Check Vol (cf): | - | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. AH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|-----|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | | | | | | | | | | | |
| A1 | - | - | 58.259 | .71 | 45 | 48 | 1.56 | 1.6 | 8 | 253 | 253 | 46 | 43 | - | |
| 2 | - | - | 71.79 | .76 | 52 | 57 | 1.67 | 1.7 | 8 | 250 | 250 | 54 | 48 | - | |
| 3 | - | - | 85.81 | .74 | 55 | 55 | 1.67 | 1.6 | 8 | 250 | 250 | 54 | 35 | - | |
| 4 | - | - | 99.67 | .72 | 58 | 55 | 1.60 | 1.6 | 8 | 250 | 251 | 50 | 35 | - | |
| 5 | - | - | 113.92 | .68 | 59 | 55 | 1.51 | 1.5 | 8 | 250 | 251 | 50 | 35 | - | |
| 6 | - | - | 126.94 | .65 | 61 | 55 | 1.45 | 1.5 | 8 | 250 | 250 | 48 | 35 | - | |
| 7 | - | - | 140.98 | .68 | 61 | 56 | 1.51 | 1.5 | 8 | 250 | 248 | 48 | 35 | - | |
| 8 | - | - | 155.89 | .66 | 61 | 56 | 1.47 | 1.5 | 8 | 250 | 250 | 47 | 35 | - | |
| 9 | - | - | 170.64 | .70 | 61 | 56 | 1.56 | 1.6 | 8 | 250 | 250 | 47 | 35 | - | |
| 10 | - | - | 184.52 | .72 | 62 | 56 | 1.61 | 1.6 | 8 | 250 | 251 | 46 | 36 | - | |
| 11 | - | - | 198.87 | .69 | 64 | 58 | 1.54 | 1.5 | 8 | 250 | 251 | 47 | 37 | - | |
| 12 | - | - | 213.02 | .71 | 65 | 60 | 1.58 | 1.6 | 8 | 250 | 251 | 47 | 37 | - | |
| B1 | - | - | 226.94 | .76 | 66 | 61 | 1.69 | 1.7 | 8 | 250 | 248 | 48 | 37 | - | |
| 2 | - | - | 241.28 | .78 | 68 | 56 | 1.76 | 1.7 | 8 | 251 | 248 | 48 | 37 | - | |
| 3 | - | - | 255.82 | .77 | 75 | 64 | 1.73 | 1.7 | 8 | 250 | 251 | 51 | 37 | - | |
| 4 | - | - | 270.42 | .76 | 76 | 66 | 1.71 | 1.7 | 8 | 249 | 250 | 51 | 39 | - | |
| 5 | - | - | 284.93 | .75 | 76 | 68 | 1.68 | 1.7 | 8 | 250 | 252 | 55 | 41 | - | |
| 6 | - | - | 300.42 | .71 | 77 | 73 | 1.58 | 1.6 | 8 | 250 | 250 | 51 | 41 | - | |
| 7 | - | - | 315.53 | .68 | 81 | 76 | 1.51 | 1.5 | 8 | 251 | 252 | 51 | 44 | - | |
| 8 | - | - | 329.74 | .65 | 85 | 79 | 1.45 | 1.5 | 8 | 250 | 251 | 52 | 46 | - | |
| 9 | - | - | 344.48 | .64 | 85 | 80 | 1.42 | 1.4 | 8 | 251 | 245 | 54 | 49 | - | |
| 10 | - | - | 358.71 | .66 | 90 | 82 | 1.48 | 1.5 | 8 | 250 | 249 | 48 | 36 | - | |
| 11 | - | - | 372.27 | .68 | 92 | 84 | 1.52 | 1.5 | 8 | 250 | 253 | 47 | 36 | - | |
| 12 | - | - | 386.11 | .68 | 93 | 86 | 1.47 | 1.5 | 8 | 250 | 252 | 47 | 37 | - | |

Final DGM: _____

| | | | | | |
|-----------------------------------|--------------|-------------------------|--|--------------------|------------------|
| Location: <u>AAA Inlet metals</u> | | Start Time: <u>4:40</u> | | Source: _____ | |
| Date: <u>5/19/21</u> | Run <u>3</u> | End Time: <u>12:49</u> | | Project No.: _____ | Parameter: _____ |

| STACK DATA (EST) | EQUIPMENT | STACK DATA (EST) | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA |
|-----------------------------|---------------------------------|------------------------------|------------|--------------------------------|----------------------------------|
| Moisture: <u>1</u> % est. | Meter Box ID: <u>m5-69</u> | Est. Tm: <u>58</u> °F | | Pb: <u>29.59</u> in. Hg | Vlc (ml) |
| Barometric: _____ in. Hg | Y: <u>1985</u> | Est. Ts: <u>58</u> °F | | Pg: <u>-1.8</u> in. WC | |
| Static Press: _____ in. WC | ΔH @ (in. WC): <u>1293</u> | Est. ΔP: <u>.71</u> in. WC | | CO ₂ : <u>0</u> % | K-FACTOR |
| Stack Press: _____ in. Hg | Probe ID: <u>PR205-3</u> | Est. Dn: <u>.203</u> in. | | O ₂ : <u>20.9</u> % | |
| CO ₂ : _____ % | Liner Material: <u>Beldiote</u> | Target Rate: <u>175</u> scfm | | Check Pt. Initial Final Corr. | |
| O ₂ : _____ % | Pitot ID: <u>ADP2</u> | LEAK CHECKS | | | Mid 1 (cf) - |
| N ₂ /CO: _____ % | Pitot Cp/Type: <u>.99 Staud</u> | Leak Rate (cfm): <u>0</u> | Pre | Mid 1 | Mid 2 (cf) - |
| Mid: _____ lb/lb-mole | Nozzle ID: <u>209</u> | Vacuum (in Hg): <u>9</u> | Mid 2 | Post | Mid 3 (cf) - |
| Ms: _____ lb/lb-mole | Nozzle Dn (in.): <u>.204</u> | Pitot Tube: <u>Pars</u> | Mid 3 | | Mid-Point Leak Check Vol (cf): - |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|-----------------------|------|--|-----------------------|-----------------------|-------|----------------------------|------|-------------------|-----------------------|-------|--------|----------|-------|----------|
| | | | | | DGM Average | Stack | Ideal | | | Actual | Probe | Filter | Imp Exit | | |
| | Amb. | Amb. | | | | | Amb. | Amb. | | Amb. | Amb. | | | | |
| | Begin | End | | | | | | | | | | | | | |
| A1 | - | - | 715.534 | .71 | 45 | 48 | 1.91 | 1.9 | 3 | 249 | 250 | 46 | | - | |
| 2 | - | - | 730.77 | .76 | 46 | 54 | 2.03 | 2 | 3 | 250 | 249 | 48 | | - | |
| 3 | - | - | 746.62 | .74 | 49 | 55 | 1.98 | 2 | 3 | 251 | 251 | 58 | | - | |
| 4 | - | - | 762.55 | .72 | 51 | 55 | 1.94 | 1.9 | 3 | 250 | 251 | 58 | | - | |
| 5 | - | - | 778.71 | .68 | 52 | 55 | 1.83 | 1.8 | 3 | 251 | 251 | 52 | | - | |
| 6 | - | - | 793.15 | .65 | 53 | 55 | 1.76 | 1.8 | 3 | 251 | 250 | 50 | | - | |
| 7 | - | - | 808.91 | .68 | 53 | 56 | 1.83 | 1.8 | 3 | 250 | 251 | 51 | | - | |
| 8 | - | - | 824.83 | .66 | 53 | 56 | 1.78 | 1.8 | 3 | 250 | 250 | 50 | | - | |
| 9 | - | - | 839.72 | .70 | 54 | 56 | 1.89 | 1.9 | 3 | 250 | 250 | 50 | | - | |
| 10 | - | - | 854.74 | .72 | 54 | 56 | 1.94 | 1.9 | 3 | 250 | 248 | 50 | | - | |
| 11 | - | - | 869.91 | .69 | 54 | 58 | 1.86 | 1.9 | 3 | 249 | 248 | 52 | | - | |
| 12 | - | - | 884.71 | .71 | 56 | 60 | 1.91 | 1.9 | 3 | 251 | 247 | 53 | | - | |
| 13 | - | - | 899.53 | .76 | 57 | 61 | 2.04 | 2 | 3 | 250 | 251 | 53 | | - | |
| 14 | - | - | 914.66 | .78 | 59 | 56 | 2.13 | 2.1 | 3 | 249 | 251 | 54 | | - | |
| 15 | - | - | 929.85 | .77 | 62 | 65 | 2.07 | 2.1 | 3 | 250 | 251 | 58 | | - | |
| 16 | - | - | 945.51 | .76 | 64 | 66 | 2.05 | 2.1 | 3 | 250 | 249 | 59 | | - | |
| 17 | - | - | 962.05 | .75 | 65 | 68 | 2.02 | 2 | 3 | 250 | 251 | 51 | | - | |
| 18 | - | - | 978.76 | .71 | 68 | 73 | 1.91 | 1.9 | 3 | 252 | 251 | 51 | | - | |
| 19 | - | - | 994.72 | .68 | 71 | 76 | 1.83 | 1.8 | 3 | 251 | 250 | 51 | | - | |
| 20 | - | - | 1010.91 | .65 | 74 | 79 | 1.75 | 1.8 | 3 | 251 | 250 | 53 | | - | |
| 21 | - | - | 1026.72 | .64 | 77 | 79 | 1.73 | 1.7 | 3 | 251 | 249 | 56 | | - | |
| 22 | - | - | 1041.43 | .66 | 80 | 82 | 1.78 | 1.8 | 3 | 251 | 251 | 54 | | - | |
| 23 | - | - | 1055.77 | .68 | 83 | 83 | 1.84 | 1.8 | 3 | 251 | 251 | 55 | | - | |
| 24 | - | - | 1071.95 | .66 | 85 | 86 | 1.77 | 1.8 | 3 | 249 | 249 | 56 | | - | |
| Final DGM: | | | | | | | | | | | | | | | |

Location: All American Asphalt Start Time: 5:52 Source: CAU
 Date: 3/17/21 Run 1: Valid End Time: 14:45 Project No.: 2021-0883 Parameter: Metals

| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | |
|-----------------------------------|--------------------------------------|-------------------------------|-------------------|----------------------------------|---------------|------------|--|-------------------------------|--|--------------|--|
| Moisture: <u>5.0</u> % est. | Meter Box ID: <u>ME-26</u> | Est. Tm: <u>50</u> °F | | Pb: <u>30.08</u> in. Hg | Vlc (ml) | | | Pg: <u>29.52</u> in. WC | | | |
| Barometric: <u>30.08</u> in. Hg | Y: <u>0.999</u> | Est. Ts: <u>65</u> °F | | CO ₂ : <u>20.7</u> % | K-FACTOR | | | O ₂ : <u>0.0</u> % | | <u>1.885</u> | |
| Static Press: <u>1.00</u> in. WC | ΔH @ (in. WC): <u>1.726</u> | Est. AP: <u>1.25</u> in. WC | | Check Pt. Initial Final Corr. | | | | | | | |
| Stack Press: <u>36.15</u> in. Hg | Probe ID: <u>P702-3-2</u> | Est. Dn: <u>0.182</u> in. | | Mid 1 (cf) <u>701068</u> | <u>702441</u> | | | | | | |
| CO ₂ : <u>0.0</u> % | Liner Material: <u>Glass</u> | Target Rate: <u>0.75</u> scfm | | Mid 2 (cf) - | | | | | | | |
| O ₂ : <u>20.4</u> % | Pitot ID: <u>P5-2</u> | | | Mid 3 (cf) - | | | | | | | |
| N ₂ /CO: <u>79.1</u> % | Pitot Cp/Type: <u>0.940 standard</u> | | | Mid-Point Leak Check Vol (cf): - | | | | | | | |
| Md: <u>28.84</u> lb/lb-mole | Nozzle ID: <u>6-196-1</u> | | | | | | | | | | |
| Ms: <u>28.24</u> lb/lb-mole | Nozzle Dn (in.): <u>0.196</u> | | | | | | | | | | |
| | | Leak Rate (cfm): <u>0.000</u> | Pre <u>0.000</u> | | | | | | | | |
| | | Vacuum (in Hg): <u>15</u> | Mid 1 <u>6</u> | | | | | | | | |
| | | Pitot Tube: <u>Pass</u> | Mid 2 <u>Pass</u> | | | | | | | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube AP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|------------|------------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 17:00 20:00 | 20:00 | 503.222 | 1.30 | 45 | 55 | 2.47 | 2.50 | 3 | 248 | 254 | 41 | | 94.5 | - |
| 7 | 20:00 | 40:00 | 520.280 | 1.30 | 48 | 55 | 2.48 | 2.50 | 3 | 250 | 251 | 45 | | 94.3 | - |
| 3 | 40:00 | 60:00 | 537.400 | 1.20 | 51 | 57 | 2.30 | 2.30 | 3 | 250 | 251 | 46 | | 97.0 | - |
| 4 | 60:00 | 80:00 | 554.390 | 1.20 | 52 | 60 | 2.29 | 2.30 | 3 | 250 | 252 | 48 | | 97.9 | - |
| 5 | 80:00 | 100:00 | 571.520 | 1.20 | 53 | 63 | 2.28 | 2.30 | 3 | 250 | 250 | 50 | | 95.3 | - |
| 6 | 100:00 | 120:00 | 588.180 | 1.20 | 53 | 66 | 2.27 | 2.30 | 3 | 250 | 250 | 49 | | 94.9 | - |
| 7 | 120:00 | 140:00 | 604.720 | 1.20 | 54 | 68 | 2.26 | 2.30 | 3 | 250 | 244 | 51 | | 94.3 | - |
| 8 | 140:00 | 160:00 | 621.170 | 1.20 | 56 | 72 | 2.26 | 2.30 | 3 | 250 | 250 | 52 | | 97.8 | - |
| 9 | 160:00 | 180:00 | 638.220 | 1.20 | 57 | 75 | 2.25 | 2.30 | 3 | 250 | 246 | 56 | | 91.9 | - |
| 10 | 180:00 | 200:00 | 654.240 | 1.20 | 58 | 78 | 2.24 | 2.20 | 3 | 250 | 251 | 59 | | 93.5 | - |
| 11 | 200:00 | 220:00 | 670.520 | 1.00 | 60 | 82 | 1.86 | 1.90 | 3 | 251 | 248 | 57 | | 96.5 | - |
| 12 | 220:00 | 240:00 | 685.880 | 1.00 | 61 | 85 | 1.85 | 1.90 | 3 | 250 | 246 | 57 | | 95.5 | - |
| B1 | 240:00 | 260:00 | 701.068 | 0.82 | 70 | 92 | 1.53 | 1.50 | 2 | 249 | 251 | 62 | | 105.1 | - |
| 2 | 260:00 | 280:00 | 716.170 | 1.10 | 76 | 95 | 2.06 | 2.10 | 2 | 249 | 250 | 60 | | 97.7 | - |
| 3 | 280:00 | 300:00 | 732.970 | 1.20 | 78 | 97 | 2.25 | 2.30 | 2 | 250 | 238 | 58 | | 96.5 | - |
| 4 | 300:00 | 320:00 | 750.120 | 0.88 | 78 | 100 | 1.64 | 1.60 | 2 | 250 | 244 | 56 | | 97.2 | - |
| 5 | 320:00 | 340:00 | 766.890 | 0.95 | 78 | 100 | 1.77 | 1.80 | 2 | 250 | 246 | 57 | | 98.2 | - |
| 6 | 340:00 | 360:00 | 780.390 | 1.00 | 80 | 102 | 1.86 | 1.90 | 2 | 250 | 240 | 58 | | 96.3 | - |
| 7 | 360:00 | 380:00 | 796.010 | 1.10 | 82 | 101 | 2.06 | 2.10 | 2 | 250 | 255 | 51 | | 97.3 | - |
| 8 | 380:00 | 400:00 | 812.630 | 1.10 | 83 | 101 | 2.06 | 2.10 | 2 | 250 | 254 | 52 | | 98.0 | - |
| 9 | 400:00 | 420:00 | 829.400 | 1.10 | 84 | 101 | 2.07 | 2.10 | 2 | 249 | 259 | 52 | | 97.8 | - |
| 10 | 420:00 | 440:00 | 846.180 | 1.10 | 82 | 102 | 2.06 | 2.10 | 2 | 250 | 258 | 50 | | 98.1 | - |
| 11 | 440:00 | 460:00 | 862.920 | 0.92 | 81 | 98 | 1.73 | 1.70 | 2 | 249 | 245 | 51 | | 96.8 | - |
| 12 | 460:00 | 480:00 | 878.080 | 1.00 | 80 | 98 | 1.88 | 1.90 | 2 | 251 | 258 | 60 | | - | - |

Final DGM: 893.742

| | | | | | |
|---------------------------------------|--------------------|-------------------------|-------------------------------|-----------------------|--|
| Location: <u>All American Asphalt</u> | | Start Time: <u>5:52</u> | | Source: <u>L4U</u> | |
| Date: <u>3/17/21</u> | Run # <u>Valid</u> | End Time: <u>14:45</u> | Project No.: <u>2021-0883</u> | Parameter: <u>M23</u> | |

| STACK DATA (EST) | EQUIPMENT | STACK DATA (EST) | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA | | |
|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|---------------------------------|--|------|----------------------------------|
| Moisture: <u>5.0</u> % est. | Meter Box ID: <u>M5-30</u> | Est. Tm: <u>50</u> °F | <u>0.86</u> | Pb: <u>27.08</u> in. Hg | Vlc (ml) | | |
| Barometric: <u>30.08</u> in. Hg | Y: <u>0.995</u> | Est. Ts: <u>65</u> °F | | Pg: <u>1.00</u> in. WC | K-FACTOR | | |
| Static Press: <u>-1.00</u> in. WC | ΔH @ (in. WC): <u>1.887</u> | Est. ΔP: <u>1.11</u> in. WC | | CO ₂ : <u>20.9</u> % | 2.054 | | |
| Stack Press: <u>30.01</u> in. Hg | Probe ID: <u>P702-3</u> | Est. Dn: <u>0.158</u> in. | | O ₂ : <u>0.0</u> % | | | |
| CO ₂ : <u>0.0</u> % | Liner Material: <u>Glass</u> | Target Rate: <u>0.75</u> scfm | Check Pt. Initial Final Corr. | | | | |
| O ₂ : <u>20.9</u> % | Pitot ID: <u>P5-2</u> | LEAK CHECKS | | | Mid 1 (cf) <u>331.904</u> <u>332.227</u> - | | |
| N ₂ /CO: <u>79.2</u> % | Pitot Cp/Type: <u>0.990 standard</u> | Leak Rate (cfm): | Pre | Mid 1 | Mid 2 | Post | Mid 2 (cf) - |
| Md: <u>28.84</u> lb/lb-mole | Nozzle ID: <u>G-196-1</u> | Vacuum (in Hg): | <u>1.0</u> | <u>1.8</u> | | | Mid 3 (cf) - |
| Ms: <u>28.29</u> lb/lb-mole | Nozzle Dn (in.): <u>0.196</u> | Pitot Tube: | <u>P655</u> | <u>P655</u> | | | Mid-Point Leak Check Vol (cf): - |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|---------------------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|-----|-------|----------|
| | | | | | DGM Average | Stack | | | | Probe | Filter | Imp Exit | Aux | | |
| | Begin | End | | | Amb. | Amb. | Amb. | Amb. | | Amb. | Amb. | | | | |
| | | | | | 45 | 45 | Ideal | Actual | | 45 | 45 | 45 | 45 | | |
| A1 | 0.00 | 20.00 | 126.838 | 1.30 | 45 | 55 | 2.70 | 2.70 | 10 | 246 | 252 | 42 | 52 | 101.6 | - |
| 2 | 20.00 | 40.00 | 140.250 | 1.30 | 52 | 55 | 2.74 | 2.70 | 10 | 250 | 248 | 44 | 52 | 99.4 | - |
| 3 | 40.00 | 60.00 | 158.520 | 1.20 | 53 | 57 | 2.53 | 2.50 | 10 | 249 | 254 | 46 | 53 | 99.8 | - |
| 4 | 60.00 | 80.00 | 176.160 | 1.20 | 54 | 60 | 2.52 | 2.50 | 10 | 252 | 250 | 46 | 54 | 97.8 | - |
| 5 | 80.00 | 100.00 | 193.430 | 1.20 | 54 | 63 | 2.50 | 2.50 | 10 | 250 | 248 | 46 | 51 | 100.1 | - |
| 6 | 100.00 | 120.00 | 211.040 | 1.20 | 54 | 66 | 2.49 | 2.50 | 10 | 247 | 249 | 47 | 54 | 99.3 | - |
| 7 | 120.00 | 140.00 | 228.470 | 1.20 | 55 | 68 | 2.48 | 2.50 | 10 | 247 | 250 | 48 | 58 | 98.7 | - |
| 8 | 140.00 | 160.00 | 245.790 | 1.20 | 57 | 72 | 2.47 | 2.50 | 10 | 249 | 250 | 48 | 58 | 100.7 | - |
| 9 | 160.00 | 180.00 | 263.460 | 1.20 | 58 | 75 | 2.47 | 2.50 | 10 | 250 | 253 | 49 | 50 | 92.6 | - |
| 10 | 180.00 | 200.00 | 280.570 | 1.20 | 60 | 78 | 2.46 | 2.50 | 10 | 249 | 250 | 45 | 55 | 104.4 | - |
| 11 | 200.00 | 220.00 | 298.900 | 1.00 | 61 | 82 | 2.04 | 2.00 | 10 | 247 | 251 | 44 | 36 | 102.6 | - |
| 12 | 220.00 | 240.00 | 316.140 | 1.00 | 62 | 85 | 2.03 | 2.00 | 10 | 240 | 253 | 46 | 37 | 98.5 | - |
| B1 | 240.00 | 260.00 | 331.904 | 0.82 | 70 | 92 | 1.67 | 1.70 | 5 | 238 | 250 | 50 | 43 | 102.2 | - |
| 2 | 260.00 | 280.00 | 346.860 | 1.10 | 74 | 95 | 2.25 | 2.20 | 8 | 246 | 242 | 54 | 40 | 94.7 | - |
| 3 | 280.00 | 300.00 | 362.970 | 1.20 | 78 | 97 | 2.46 | 2.50 | 9 | 248 | 251 | 56 | 38 | 98.0 | - |
| 4 | 300.00 | 320.00 | 380.460 | 0.88 | 81 | 100 | 1.81 | 1.80 | 8 | 254 | 248 | 55 | 39 | 92.0 | - |
| 5 | 320.00 | 340.00 | 395.350 | 0.95 | 81 | 100 | 1.95 | 2.00 | 8 | 251 | 247 | 61 | 41 | 98.5 | - |
| 6 | 340.00 | 360.00 | 411.060 | 1.00 | 83 | 102 | 2.05 | 2.00 | 8 | 247 | 246 | 60 | 40 | 92.5 | - |
| 7 | 360.00 | 380.00 | 426.220 | 1.10 | 84 | 101 | 2.26 | 2.30 | 8 | 250 | 248 | 54 | 38 | 97.1 | - |
| 8 | 380.00 | 400.00 | 442.940 | 1.10 | 84 | 101 | 2.26 | 2.30 | 9 | 247 | 250 | 55 | 36 | 100.0 | - |
| 9 | 400.00 | 420.00 | 460.170 | 1.10 | 85 | 101 | 2.27 | 2.30 | 9 | 247 | 248 | 56 | 43 | 96.2 | - |
| 10 | 420.00 | 440.00 | 476.780 | 1.10 | 83 | 102 | 2.26 | 2.30 | 9 | 248 | 251 | 58 | 48 | 103.9 | - |
| 11 | 440.00 | 460.00 | 494.630 | 0.92 | 82 | 98 | 1.90 | 1.90 | 8 | 243 | 248 | 60 | 54 | 100.2 | - |
| 12 | 460.00 | 480.00 | 510.410 | 1.10 | 80 | 98 | 2.26 | 2.30 | 8 | 252 | 249 | 61 | 59 | - | - |
| | | | | | | | | | | | | | | | |
| Final DGM: <u>526.962</u> | | | | | | | | | | | | | | | |

Metals

Isokinetic Field Data

| | | | | | |
|---------------------------------------|--|--------------------------|--|-------------------------------|--|
| Location: <u>All American Asphalt</u> | | Start Time: <u>4:40</u> | | Source: <u>CAU</u> | |
| Date: <u>3/18/21</u> | | End Time: <u>12:46</u> | | Project No.: <u>2021-0883</u> | |
| Run # <u>2</u> | | Parameter: <u>Metals</u> | | | |

| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | | | |
|-----------------------------------|--|--------------------------------------|--|-------------------------------|--|-------------|--|--------------------------------|-------|-------------------------------|------|--------------------------------|---|
| Moisture: <u>1.0</u> % est. | | Meter Box ID: <u>M5-26</u> | | Est. Tm: <u>67</u> °F | | <u>2485</u> | | Pb: <u>30.40</u> in. Hg | | Vlc (ml) | | | |
| Barometric: <u>30.08</u> in. Hg | | Y: <u>0.999</u> | | Est. Ts: <u>83</u> °F | | | | Pg: <u>70.21</u> in. WC | | K-FACTOR | | | |
| Static Press: <u>1.00</u> in. WC | | ΔH @ (in. WC): <u>1.726</u> | | Est. ΔP: <u>6.10</u> in. WC | | | | CO ₂ : <u>0</u> % | | 2.01 | | | |
| Stack Press: <u>30.15</u> in. Hg | | Probe ID: <u>P702-3-2</u> | | Est. Dn: <u>0.683</u> in. | | | | O ₂ : <u>20.9</u> % | | Check Pt. Initial Final Corr. | | | |
| CO ₂ : <u>0.0</u> % | | Liner Material: <u>Glass</u> | | Target Rate: <u>0.75</u> scfm | | | | | | | | | |
| O ₂ : <u>20.9</u> % | | Pitot ID: <u>P5-2</u> | | LEAK CHECKS | | | | Pre | Mid 1 | Mid 2 | Post | Mid 1 (cf) | - |
| N ₂ /CO: <u>79.1</u> % | | Pitot Cp/Type: <u>0.990 standard</u> | | Leak Rate (cfm): <u>0.002</u> | | | | | | | | Mid 2 (cf) | - |
| Md: <u>28.84</u> lb/lb-mole | | Nozzle ID: <u>G-196-i</u> | | Vacuum (in Hg): <u>15</u> | | | | | | | | Mid 3 (cf) | - |
| Ms: <u>28.73</u> lb/lb-mole | | Nozzle Dn (in.): <u>0.196</u> | | Pitot Tube: <u>Pass</u> | | | | | | | | Mid-Point Leak Check Vol (cf): | - |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|----------------------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0.00 | 20.00 | 894.933 | 1.20 | 81 | 75 | 2.38 | 2.40 | 3 | 248 | 250 | 41 | - | 95.6 | 72.86 |
| 2 | 20.00 | 40.00 | 911.950 | 1.10 | 48 | 80 | 2.15 | 2.20 | 3 | 250 | 251 | 38 | - | 97.6 | 70.08 |
| 3 | 40.00 | 60.00 | 928.420 | 1.00 | 48 | 78 | 1.96 | 2.00 | 3 | 250 | 250 | 37 | - | 95.8 | 66.70 |
| 4 | 60.00 | 80.00 | 943.870 | 1.20 | 48 | 76 | 2.36 | 2.40 | 3 | 250 | 252 | 35 | - | 97.1 | 72.82 |
| 5 | 80.00 | 100.00 | 961.050 | 1.20 | 48 | 76 | 2.36 | 2.40 | 3 | 242 | 251 | 46 | - | 98.2 | 72.93 |
| 6 | 100.00 | 120.00 | 978.410 | 1.20 | 47 | 75 | 2.36 | 2.40 | 3 | 250 | 250 | 37 | - | 98.3 | 72.86 |
| 7 | 120.00 | 140.00 | 995.770 | 1.10 | 49 | 78 | 2.16 | 2.20 | 3 | 250 | 252 | 37 | - | 98.6 | 69.96 |
| 8 | 140.00 | 160.00 | 1012.470 | 1.10 | 51 | 77 | 2.17 | 2.20 | 3 | 250 | 249 | 39 | - | 98.0 | 69.89 |
| 9 | 160.00 | 180.00 | 1029.160 | 1.10 | 51 | 77 | 2.17 | 2.20 | 3 | 250 | 247 | 43 | - | 98.1 | 69.89 |
| 10 | 180.00 | 200.00 | 1045.870 | 1.20 | 53 | 79 | 2.37 | 2.40 | 3 | 249 | 246 | 43 | - | 102.6 | 73.13 |
| 11 | 200.00 | 220.00 | 1064.150 | 1.10 | 56 | 80 | 2.18 | 2.20 | 3 | 251 | 251 | 45 | - | 92.5 | 70.08 |
| 12 | 220.00 | 240.00 | 1080.000 | 0.90 | 56 | 83 | 1.78 | 1.80 | 3 | 250 | 249 | 46 | - | 101.5 | 63.57 |
| B1 | 240.00 | 260.00 | 1096.717 | 1.10 | 56 | 86 | 2.16 | 2.20 | 3 | 247 | 250 | 48 | - | 94.6 | 70.47 |
| 2 | 260.00 | 280.00 | 1111.850 | 1.10 | 58 | 88 | 2.16 | 2.20 | 3 | 249 | 253 | 47 | - | 93.0 | 70.60 |
| 3 | 280.00 | 300.00 | 1127.730 | 1.20 | 59 | 88 | 2.36 | 2.40 | 3 | 250 | 247 | 52 | - | 97.5 | 73.74 |
| 4 | 300.00 | 320.00 | 1145.150 | 1.20 | 66 | 91 | 2.37 | 2.40 | 3 | 249 | 250 | 51 | - | 96.3 | 73.94 |
| 5 | 320.00 | 340.00 | 1162.550 | 1.20 | 73 | 93 | 2.40 | 2.40 | 3 | 251 | 248 | 53 | - | 96.2 | 74.08 |
| 6 | 340.00 | 360.00 | 1180.120 | 1.20 | 77 | 95 | 2.41 | 2.40 | 3 | 251 | 248 | 54 | - | 95.9 | 74.21 |
| 7 | 360.00 | 380.00 | 1197.730 | 1.10 | 79 | 98 | 2.20 | 2.20 | 3 | 250 | 249 | 56 | - | 95.7 | 71.24 |
| 8 | 380.00 | 400.00 | 1214.590 | 1.10 | 81 | 98 | 2.21 | 2.20 | 3 | 250 | 249 | 58 | - | 95.4 | 71.24 |
| 9 | 400.00 | 420.00 | 1231.450 | 1.00 | 82 | 99 | 2.01 | 2.00 | 3 | 246 | 250 | 58 | - | 96.8 | 67.99 |
| 10 | 420.00 | 440.00 | 1247.800 | 0.88 | 81 | 100 | 1.76 | 1.80 | 3 | 250 | 252 | 59 | - | 99.7 | 63.84 |
| 11 | 440.00 | 460.00 | 1263.550 | 0.77 | 80 | 102 | 1.54 | 1.50 | 3 | 249 | 248 | 56 | - | 97.6 | 59.82 |
| 12 | 460.00 | 480.00 | 1277.490 | 0.83 | 82 | 104 | 1.66 | 1.70 | 3 | 249 | 245 | 56 | - | 99.3 | 62.22 |
| Final DGM: <u>1292.705</u> | | | | | | | | | | | | | | | |

| | | |
|---------------------------------------|-------------------------|-------------------------------|
| Location: <u>311 American Asphalt</u> | Start Time: <u>9:40</u> | Source: <u>CAU</u> |
| Date: <u>3/18/21</u> | End Time: <u>12:46</u> | Project No.: <u>2021-0983</u> |
| Run # <u>2</u> <u>Valid</u> | Parameter: <u>M23</u> | |

| STACK DATA (EST) | EQUIPMENT | STACK DATA (EST) | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA |
|-----------------------------------|--------------------------------------|-------------------------------|-------------|---------------------------------|-------------------------------|
| Moisture: <u>1.0</u> % est. | Meter Box ID: <u>M5-30</u> | Est. Tm: <u>69</u> °F | <u>2955</u> | Pb: <u>30.1</u> in. Hg | Vlc (ml) |
| Barometric: <u>30.08</u> in. Hg | Y: <u>0.495</u> | Est. Ts: <u>83</u> °F | | Pg: <u>40.81</u> in. WC | |
| Static Press: <u>-1.00</u> in. WC | ΔH @ (in. WC): <u>6.887</u> | Est. ΔP: <u>1.11</u> in. WC | | CO ₂ : <u>20.9</u> % | K-FACTOR |
| Stack Press: <u>30.01</u> in. Hg | Probe ID: <u>P702-3</u> | Est. Dn: <u>0.153</u> in. | | O ₂ : <u>0</u> % | <u>2.15</u> |
| CO ₂ : <u>0.0</u> % | Liner Material: <u>Glass</u> | Target Rate: <u>0.75</u> scfm | | | |
| O ₂ : <u>20.9</u> % | Pitot ID: <u>P5-2</u> | LEAK CHECKS | | | Check Pt. Initial Final Corr. |
| N ₂ /CO: <u>79.1</u> % | Pitot Cp/Type: <u>0.990 standard</u> | Pre | Mid 1 | Mid 2 | Post |
| Md: <u>28.84</u> lb/lb-mole | Nozzle ID: <u>G-195-1</u> | Leak Rate (cfm): <u>0.000</u> | | | |
| Ms: <u>28.73</u> lb/lb-mole | Nozzle Dn (in.): <u>0.195</u> | Vacuum (in Hg): <u>15</u> | | | |
| | | Pitot Tube: <u>P655</u> | | | |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|---------------------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0.00 | 20.00 | 527.498 | 1.20 | 52 | 75 | 2.54 | 2.50 | 4 | 250 | 250 | 46 | 38 | 96.9 | 73.04 |
| 2 | 20.00 | 40.00 | 544.640 | 1.10 | 51 | 80 | 2.30 | 2.30 | 6 | 246 | 250 | 44 | 37 | 98.9 | 70.26 |
| 3 | 40.00 | 60.00 | 566.280 | 1.00 | 51 | 78 | 2.10 | 2.10 | 6 | 250 | 250 | 45 | 37 | 99.3 | 66.86 |
| 4 | 60.00 | 80.00 | 577.250 | 1.20 | 50 | 76 | 2.52 | 2.50 | 6 | 244 | 250 | 50 | 36 | 98.0 | 73.11 |
| 5 | 80.00 | 100.00 | 594.440 | 1.20 | 52 | 76 | 2.53 | 2.50 | 6 | 243 | 250 | 47 | 37 | 97.6 | 73.11 |
| 6 | 100.00 | 120.00 | 611.740 | 1.20 | 51 | 75 | 2.53 | 2.50 | 6 | 270 | 250 | 47 | 36 | 98.6 | 73.04 |
| 7 | 120.00 | 140.00 | 629.050 | 1.10 | 83 | 78 | 2.32 | 2.30 | 6 | 242 | 250 | 47 | 37 | 98.7 | 70.13 |
| 8 | 140.00 | 160.00 | 645.750 | 1.10 | 53 | 77 | 2.32 | 2.30 | 6 | 242 | 250 | 48 | 39 | 98.4 | 70.06 |
| 9 | 160.00 | 180.00 | 662.420 | 1.10 | 54 | 77 | 2.33 | 2.30 | 6 | 248 | 250 | 49 | 40 | 99.9 | 70.06 |
| 10 | 180.00 | 200.00 | 679.280 | 1.20 | 56 | 79 | 2.54 | 2.50 | 6 | 247 | 249 | 52 | 43 | 97.5 | 73.31 |
| 11 | 200.00 | 220.00 | 696.700 | 1.10 | 56 | 80 | 2.32 | 2.30 | 6 | 245 | 251 | 54 | 46 | 98.7 | 70.26 |
| 12 | 220.00 | 240.00 | 713.470 | 0.90 | 59 | 83 | 1.90 | 1.80 | 5 | 250 | 249 | 60 | 49 | 99.8 | 63.73 |
| B1 | 240.00 | 260.00 | 728.878 | 1.10 | 58 | 88 | 2.31 | 2.30 | 6 | 244 | 250 | 58 | 44 | 98.9 | 70.65 |
| 2 | 260.00 | 280.00 | 745.650 | 1.10 | 60 | 88 | 2.31 | 2.30 | 6 | 252 | 249 | 61 | 51 | 91.2 | 70.77 |
| 3 | 280.00 | 300.00 | 761.160 | 1.20 | 61 | 88 | 2.52 | 2.50 | 6 | 246 | 249 | 58 | 41 | 98.3 | 73.92 |
| 4 | 300.00 | 320.00 | 778.630 | 1.20 | 70 | 91 | 2.55 | 2.60 | 7 | 249 | 250 | 53 | 41 | 99.7 | 74.12 |
| 5 | 320.00 | 340.00 | 796.600 | 1.20 | 73 | 93 | 2.55 | 2.60 | 7 | 251 | 246 | 53 | 41 | 97.8 | 74.26 |
| 6 | 340.00 | 360.00 | 814.300 | 1.20 | 76 | 95 | 2.56 | 2.60 | 7 | 247 | 251 | 55 | 42 | 98.4 | 74.39 |
| 7 | 360.00 | 380.00 | 832.180 | 1.10 | 78 | 98 | 2.34 | 2.40 | 7 | 251 | 249 | 56 | 43 | 100.1 | 71.42 |
| 8 | 380.00 | 400.00 | 849.620 | 1.10 | 82 | 98 | 2.36 | 2.40 | 7 | 244 | 250 | 58 | 45 | 97.7 | 71.42 |
| 9 | 400.00 | 420.00 | 866.770 | 1.00 | 83 | 99 | 2.15 | 2.20 | 6 | 250 | 251 | 62 | 51 | 102.9 | 68.18 |
| 10 | 420.00 | 440.00 | 884.010 | 0.88 | 84 | 100 | 1.89 | 1.90 | 6 | 249 | 249 | 70 | 57 | 101.2 | 67.49 |
| 11 | 440.00 | 460.00 | 899.950 | 0.77 | 80 | 102 | 1.64 | 1.60 | 5 | 248 | 248 | 64 | 65 | 98.1 | 59.97 |
| 12 | 460.00 | 480.00 | 914.280 | 0.83 | 85 | 104 | 1.77 | 1.80 | 5 | 247 | 246 | 58 | 44 | 98.9 | 62.37 |
| | | | | | | | | | | | | | | | |
| Final DGM: <u>929.384</u> | | | | | | | | | | | | | | | |

Location: All American Asphalt Start Time: 4:40 Source: LAU
 Date: 3/19/21 Run# 3 Valid End Time: 12:49 Project No.: 2021-0883 Parameter: Metals

| STACK DATA (EST) | EQUIPMENT | STACK DATA (EST) | FILTER NO. | STACK DATA (FINAL) | MOIST. DATA | |
|-----------------------------------|--------------------------------------|-------------------------------|-------------|--------------------------------|--------------------------------|------|
| Moisture: <u>1.0</u> % est. | Meter Box ID: <u>M5-26</u> | Est. Tm: <u>63</u> °F | <u>2959</u> | Pb: <u>35.0</u> in. Hg | Vlc (ml) | |
| Barometric: <u>30.08</u> in. Hg | V: <u>0.999</u> | Est. Ts: <u>87</u> °F | | Pg: <u>40.79</u> in. WC | | |
| Static Press: <u>1.00</u> in. WC | ΔH @ (in. WC): <u>1.726</u> | Est. ΔP: <u>1.09</u> in. WC | | CO ₂ : <u>0.0</u> % | K-FACTOR | |
| Stack Press: <u>30.15</u> in. Hg | Probe ID: <u>A702-7-2</u> | Est. Dn: <u>0.185</u> in. | | O ₂ : <u>20.9</u> % | <u>1.992</u> | |
| CO ₂ : <u>0.0</u> % | Liner Material: <u>Glass</u> | Target Rate: <u>0.75</u> scfm | | Check Pt. | Initial Final Corr. | |
| O ₂ : <u>20.9</u> % | Pitot ID: <u>05-2</u> | LEAK CHECKS | | | Mid 1 (cf) | - |
| N ₂ /CO: <u>79.1</u> % | Pitot Cp/Type: <u>0.990 standard</u> | Leak Rate (cfm): <u>0.002</u> | Pre | Mid 1 | Mid 2 | Post |
| Md: <u>28.84</u> lb/lb-mole | Nozzle ID: <u>G-196-1</u> | Vacuum (in Hg): <u>15</u> | | | | |
| Ms: <u>28.73</u> lb/lb-mole | Nozzle Dn (in.): <u>0.196</u> | Pitot Tube: <u>Glass</u> | | | | |
| | | | | | Mid 2 (cf) | - |
| | | | | | Mid 3 (cf) | - |
| | | | | | Mid-Point Leak Check Vol (cf): | - |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|---------------------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|------|-------|----------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0.00 | 20.00 | 245.292 | 0.98 | 50 | 78 | 1.93 | 1.90 | 3 | 249 | 248 | 47 | - | 94.8 | 66.03 |
| 2 | 20.00 | 40.00 | 310.500 | 1.20 | 52 | 83 | 2.35 | 2.40 | 2 | 250 | 250 | 46 | - | 96.1 | 73.40 |
| 3 | 40.00 | 60.00 | 327.520 | 1.20 | 54 | 82 | 2.36 | 2.40 | 2 | 250 | 249 | 46 | - | 97.4 | 73.44 |
| 4 | 60.00 | 80.00 | 344.860 | 1.20 | 56 | 83 | 2.36 | 2.40 | 2 | 250 | 249 | 48 | - | 99.1 | 73.40 |
| 5 | 80.00 | 100.00 | 362.590 | 1.20 | 54 | 83 | 2.35 | 2.40 | 2 | 251 | 251 | 48 | - | 94.3 | 73.40 |
| 6 | 100.00 | 120.00 | 379.320 | 1.20 | 55 | 82 | 2.36 | 2.40 | 2 | 250 | 249 | 48 | - | 96.5 | 73.34 |
| 7 | 120.00 | 140.00 | 396.530 | 1.20 | 55 | 82 | 2.36 | 2.40 | 2 | 250 | 253 | 46 | - | 98.9 | 73.34 |
| 8 | 140.00 | 160.00 | 414.170 | 1.10 | 54 | 82 | 2.16 | 2.20 | 2 | 250 | 252 | 48 | - | 97.3 | 70.21 |
| 9 | 160.00 | 180.00 | 430.760 | 1.10 | 55 | 80 | 2.18 | 2.20 | 2 | 250 | 250 | 47 | - | 97.1 | 70.08 |
| 10 | 180.00 | 200.00 | 447.370 | 1.20 | 55 | 81 | 2.37 | 2.40 | 2 | 251 | 249 | 49 | - | 96.9 | 73.27 |
| 11 | 200.00 | 220.00 | 464.670 | 1.00 | 57 | 82 | 1.98 | 2.00 | 2 | 250 | 251 | 52 | - | 96.5 | 66.95 |
| 12 | 220.00 | 240.00 | 480.450 | 0.95 | 58 | 83 | 1.88 | 1.90 | 2 | 250 | 251 | 54 | - | 100.6 | 65.31 |
| B1 | 240.00 | 260.00 | 496.510 | 1.00 | 58 | 85 | 1.97 | 2.00 | 2 | 252 | 251 | 55 | - | 92.0 | 67.13 |
| 2 | 260.00 | 280.00 | 511.550 | 1.10 | 62 | 86 | 2.18 | 2.20 | 2 | 250 | 249 | 59 | - | 99.0 | 70.47 |
| 3 | 280.00 | 300.00 | 528.630 | 1.20 | 63 | 89 | 2.37 | 2.40 | 2 | 249 | 248 | 64 | - | 93.3 | 73.81 |
| 4 | 300.00 | 320.00 | 545.410 | 1.20 | 70 | 91 | 2.39 | 2.40 | 3 | 249 | 250 | 65 | - | 95.7 | 73.94 |
| 5 | 320.00 | 340.00 | 562.820 | 1.20 | 76 | 93 | 2.41 | 2.40 | 3 | 250 | 252 | 65 | - | 97.6 | 74.08 |
| 6 | 340.00 | 360.00 | 580.750 | 1.20 | 82 | 95 | 2.43 | 2.40 | 2 | 250 | 250 | 69.5-70 | - | 96.5 | 74.21 |
| 7 | 360.00 | 380.00 | 598.650 | 1.20 | 88 | 97 | 2.45 | 2.40 | 2 | 250 | 250 | 70.5-71 | - | 96.0 | 74.34 |
| 8 | 380.00 | 400.00 | 616.610 | 1.10 | 89 | 99 | 2.24 | 2.20 | 2 | 251 | 250 | 61 | - | 95.7 | 71.31 |
| 9 | 400.00 | 420.00 | 633.770 | 1.00 | 87 | 100 | 2.03 | 2.00 | 2 | 250 | 249 | 62 | - | 94.4 | 68.05 |
| 10 | 420.00 | 440.00 | 649.840 | 1.00 | 85 | 102 | 2.01 | 2.00 | 2 | 250 | 253 | 62 | - | 94.7 | 68.17 |
| 11 | 440.00 | 460.00 | 665.870 | 0.98 | 84 | 103 | 1.76 | 1.80 | 2 | 248 | 250 | 60 | - | 100.8 | 64.01 |
| 12 | 460.00 | 480.00 | 681.840 | 0.95 | 84 | 103 | 1.71 | 1.70 | 2 | 251 | 251 | 62 | - | 94.0 | 62.91 |
| Final DGM: <u>696.478</u> | | | | | | | | | | | | | | | |

| | | | | | |
|---------------------------------------|---------------|-------------------------|------------------------|-------------------------------|-----------------------|
| Location: <u>All American Asphalt</u> | | Start Time: <u>4:40</u> | | Source: <u>LAU</u> | |
| Date: <u>3/19/21</u> | Run: <u>3</u> | Valid: <u>Valid</u> | End Time: <u>12:49</u> | Project No.: <u>7021-0893</u> | Parameter: <u>M23</u> |

| STACK DATA (EST) | | EQUIPMENT | | STACK DATA (EST) | | FILTER NO. | | STACK DATA (FINAL) | | MOIST. DATA | | | |
|-----------------------------------|--|--------------------------------------|--|-------------------------------|--|--------------|--|--------------------------------|-------|-------------|------|--------------------------------|---|
| Moisture: <u>1.0</u> % est | | Meter Box ID: <u>M5-30</u> | | Est. Tm: <u>64</u> °F | | <u>29.59</u> | | Pb: <u>30.10</u> in. Hg | | Vlc (ml) | | | |
| Barometric: <u>30.08</u> in. Hg | | Y: <u>0.995</u> | | Est. Ts: <u>87</u> °F | | | | Pg: <u>40.77</u> in. WC | | K-FACTOR | | | |
| Static Press: <u>6.00</u> in. WC | | ΔH @ (in. WC): <u>1.887</u> | | Est. ΔP: <u>1.09</u> in. WC | | | | CO ₂ : <u>0.0</u> % | | 2.119 | | | |
| Stack Press: <u>30.01</u> in. Hg | | Probe ID: <u>P702-3</u> | | Est. Dn: <u>0.185</u> in. | | | | O ₂ : <u>20.9</u> % | | | | | |
| CO ₂ : <u>0.0</u> % | | Liner Material: <u>Glass</u> | | Target Rate: <u>0.75</u> scfm | | | | Check Pt. Initial Final Corr. | | | | | |
| O ₂ : <u>20.9</u> % | | Pitot ID: <u>P5-2</u> | | LEAK CHECKS | | | | Pre | Mid 1 | Mid 2 | Post | Mid 1 (cf) | - |
| N ₂ /CO: <u>79.1</u> % | | Pitot Cp/Type: <u>0.990 standard</u> | | Leak Rate (cfm): <u>0.000</u> | | | | | | | | Mid 2 (cf) | - |
| Md: <u>28.84</u> lb/lb-mole | | Nozzle ID: <u>6-195-1</u> | | Vacuum (in Hg): <u>15</u> | | | | | | | | Mid 3 (cf) | - |
| Ms: <u>28.73</u> lb/lb-mole | | Nozzle Dn (in.): <u>0.195</u> | | Pitot Tube: <u>Pass</u> | | | | | | | | Mid-Point Leak Check Vol (cf): | - |

| Sample Pt. | Sample Time (minutes) | | Dry Gas Meter Reading (ft ³) | Pitot Tube ΔP (in WC) | Gas Temperatures (°F) | | Orifice Press. ΔH (in. WC) | | Pump Vac (in. Hg) | Gas Temperatures (°F) | | | | % ISO | Vs (fps) |
|----------------------------|-----------------------|--------|--|-----------------------|-----------------------|-------|----------------------------|--------|-------------------|-----------------------|--------|----------|---------------|-------|------------------|
| | Begin | End | | | DGM Average | Stack | Ideal | Actual | | Probe | Filter | Imp Exit | Aux | | |
| | | | | | Amb. | Amb. | | | | Amb. | Amb. | Amb. | Amb. | | |
| A1 | 0.00 | 20.00 | 929.848 | 0.98 | 52 | 78 | 2.06 | 2.10 | 5 | 250 | 252 | 48 | 37 | 102.1 | 66.19 |
| 2 | 20.00 | 40.00 | 946.130 | 1.20 | 53 | 83 | 2.50 | 2.50 | 6 | 247 | 249 | 48 | 38 | 100.4 | 73.58 |
| 3 | 20.00 | 60.00 | 963.780 | 1.20 | 55 | 82 | 2.52 | 2.50 | 6 | 249 | 251 | 49 | 39 | 100.5 | 73.52 |
| 4 | 60.00 | 80.00 | 981.540 | 1.20 | 56 | 83 | 2.52 | 2.50 | 6 | 248 | 248 | 49 | 40 | 98.9 | 73.52 |
| 5 | 80.00 | 100.00 | 999.040 | 1.20 | 56 | 83 | 2.52 | 2.50 | 6 | 244 | 251 | 52 | 37 | 97.2 | 73.52 |
| 6 | 100.00 | 120.00 | 1016.240 | 1.20 | 55 | 82 | 2.52 | 2.50 | 6 | 247 | 250 | 51 | 38 | 99.0 | 73.52 |
| 7 | 120.00 | 140.00 | 1033.550 | 1.20 | 56 | 82 | 2.52 | 2.50 | 6 | 245 | 251 | 52 | 39 | 97.5 | 73.52 |
| 8 | 140.00 | 160.00 | 1050.820 | 1.10 | 55 | 82 | 2.31 | 2.30 | 6 | 246 | 252 | 53 | 40 | 98.4 | 73.52 |
| 9 | 160.00 | 180.00 | 1067.650 | 1.10 | 56 | 80 | 2.32 | 2.30 | 6 | 248 | 250 | 54 | 42 | 97.0 | 73.52 |
| 10 | 180.00 | 200.00 | 1084.130 | 1.20 | 56 | 81 | 2.53 | 2.50 | 6 | 242 | 250 | 58 | 48 | 97.3 | 73.52 |
| 11 | 200.00 | 220.00 | 1101.370 | 1.00 | 58 | 82 | 2.11 | 2.10 | 5 | 240 | 251 | 60 | 54 | 101.7 | 73.52 |
| 12 | 220.00 | 240.00 | 1117.890 | 0.95 | 60 | 83 | 2.01 | 2.00 | 5 | 246 | 251 | 57 | 38 | 90.2 | 85.47 |
| B1 | 240.00 | 260.00 | 1132.220 | 1.00 | 60 | 85 | 2.11 | 2.10 | 6 | 241 | 250 | 58 | 39 | 99.1 | 67.30 |
| 2 | 260.00 | 280.00 | 1148.340 | 1.10 | 64 | 86 | 2.33 | 2.30 | 6 | 239 | 248 | 59 | 40 | 99.3 | 70.65 |
| 3 | 280.00 | 300.00 | 1165.780 | 1.20 | 64 | 89 | 2.53 | 2.60 | 6 | 237 | 246 | 58 | 41 | 94.6 | 73.99 |
| 4 | 300.00 | 320.00 | 1182.280 | 1.20 | 73 | 91 | 2.56 | 2.60 | 6 | 239 | 249 | 59 | 42 | 99.1 | 74.12 |
| 5 | 320.00 | 340.00 | 1200.260 | 1.20 | 76 | 93 | 2.58 | 2.60 | 6 | 241 | 246 | 60 | 47 | 97.5 | 74.26 |
| 6 | 340.00 | 360.00 | 1218.010 | 1.20 | 79 | 96 | 2.57 | 2.60 | 9 | 249 | 249 | 61 | 48 | 96.0 | 74.46 |
| 7 | 360.00 | 380.00 | 1235.530 | 1.20 | 84 | 97 | 2.59 | 2.60 | 9 | 241 | 252 | 58 | 37 | 98.3 | 74.53 |
| 8 | 380.00 | 400.00 | 1253.430 | 1.10 | 87 | 99 | 2.39 | 2.40 | 9 | 248 | 251 | 59 | 40 | 102.9 | 71.48 |
| 9 | 400.00 | 420.00 | 1271.750 | 1.00 | 91 | 100 | 2.17 | 2.20 | 9 | 249 | 250 | 60 | 40 | 98.5 | 68.22 |
| 10 | 420.00 | 440.00 | 1288.490 | 1.00 | 92 | 102 | 2.17 | 2.20 | 9 | 249 | 248 | 62 | 43 | 98.1 | 68.34 |
| 11 | 440.00 | 460.00 | 1305.160 | 0.88 | 94 | 103 | 1.92 | 1.90 | 8 | 248 | 250 | 62 | 48 | 99.3 | 64.16 |
| 12 | 460.00 | 480.00 | 1321.040 | 0.85 | 94 | 103 | 1.85 | 1.90 | 8 | 250 | 251 | 63 | 51 | 104.7 | 63.06 |
| Final DGM: <u>1337.504</u> | | | | | | | | | | | | | | | |

3-17-21 Inlet

1A

~~D122~~ 10-15
D122

430 start
1030 end
D154

1B

Leak check
pre ✓ ✓
post ✓ ✓

| Start | 1A | 1B |
|-------|----|----|
| 5 | 27 | 28 |
| 10 | 25 | 26 |
| 15 | 22 | 23 |
| 20 | 20 | 20 |
| 25 | 19 | 18 |
| 30 | 18 | 16 |
| 35 | 16 | 14 |
| 40 | 14 | 12 |
| 45 | 12 | 10 |
| 50 | 10 | 8 |
| 55 | 8 | 6 |
| 60 | 6 | 5 |

| Outlet | 1A | D155 | D854 | 1B | Leak Check |
|-----------------|----|------|------|----|------------|
| 5 | 29 | | | 27 | pre ✓ ✓ |
| 10 | 28 | | | 26 | post ✓ ✓ |
| 15 | 25 | | | 23 | |
| 20 | 23 | | | 21 | |
| D125 | 21 | | | 19 | |
| 30 | 20 | | | 17 | |
| 35 | 18 | | | 15 | |
| 40 | 16 | | | 13 | |
| 45 | 14 | | | 11 | |
| 50 | 12 | | | 9 | |
| 55 | 10 | | | 7 | |
| 60 | 8 | | | 6 | |

3-18-21

Inlet



start L
end 0930

1. Post ✓

D129
AD24 **2A**

TO 15

D145
AD04 **2B**

| | | |
|-------|----|----|
| Start | 30 | 30 |
| 5 | 28 | 28 |
| 10 | 25 | 26 |
| 15 | 23 | 24 |
| 20 | 20 | 22 |
| 25 | 17 | 20 |
| 30 | 14 | 18 |
| 35 | 12 | 16 |
| 40 | 10 | 14 |
| 45 | 8 | 12 |
| 50 | 7 | 10 |
| 55 | 6 | 10 |
| 60 | 5 | 8 |

Outlet AD51 **2A** D834

AD36 **2B** D531

| | | | |
|-------|----|----|------------|
| Start | 30 | 30 | |
| 5 | 28 | 27 | Leak Check |
| 10 | 26 | 25 | pre ✓ ✓ |
| 15 | 23 | 23 | post ✓ ✓ |
| 20 | 21 | 21 | |
| 25 | 18 | 19 | |
| 30 | 15 | 17 | |
| 35 | 12 | 14 | |
| 40 | 10 | 12 | |
| 45 | 8 | 10 | |
| 50 | 6 | 8 | |
| 55 | 5 | 7 | |
| 60 | - | 6 | |

3-19-21

Inlet

10 15

max
 end 0600

pc
 post
 lean

AD04 3A D149

AD24

3B D181

| | | |
|-------|----|-----------------|
| start | 30 | 30 |
| 5 | 29 | 28 |
| 10 | 28 | 27 |
| 15 | 27 | 26 |
| 20 | 25 | 24 |
| 25 | 22 | 22 |
| 30 | 20 | 20 |
| 35 | 18 | 17 |
| 40 | 16 | 14 |
| 45 | 14 | 12 |
| 50 | 12 | 11 |
| 55 | 11 | 10 |
| 60 | 10 | 10 8 |

Outlet AD36 3A SIMO35

AD51

3B D791

| | | | |
|-------|----|----|--|
| start | 28 | 28 | |
| 5 | 26 | 26 | leak check |
| 10 | 24 | 24 | pc <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| 15 | 22 | 22 | post <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> |
| 20 | 20 | 20 | |
| 25 | 18 | 18 | |
| 30 | 16 | 16 | |
| 35 | 14 | 14 | |
| 40 | 12 | 12 | |
| 45 | 10 | 10 | |
| 50 | 8 | 9 | |
| 55 | 6 | 8 | |
| 60 | 5 | 7 | |

3-17-21

START

06:15

M75-3 (Low)

Leak

PRE POST

✓

✓

Check

✓

✓

ID

1A

1B

TANK

54083

A111

TRAP

1

2

2111 START

VAL

VAL

5

27

27

10

25

25

15

22

21

20

20

19

25

18

17.5

30

17

16.5

35

16

15

40

14

13

45

12

11

50

11

8

55

9

6

60

7

4

Leak

pre

✓

✓

Leak

post

✓

3-17-21

9

START 0615

Leak Checks

Pre ✓

Post ✓

Mas. 1 (Hist)

| ID | IA | IB |
|------|-------|-------|
| TANK | T-17 | T-10 |
| TRAP | TP110 | TP066 |
| | 30 | 30 |
| 5 | 27 | 27 |
| 10 | 25 | 25 |
| 15 | 23 | 22 |
| 20 | 22 | 21 |
| 25 | 21 | 19.5 |
| 30 | 19.5 | 18 |
| 35 | 17 | 17 |
| 40 | 16 | 15 |
| 45 | 14 | 12 |
| 50 | 12 | 10 |
| 55 | 10 | 8 |
| 60 | 7 | 7 |

| | | | |
|------|-----|---|---|
| pre | L ✓ | ✓ | ✓ |
| post | L ✓ | ✓ | ✓ |

3/18/21 Start 4:53

M25.3 (Low)

Leak check
Pre ✓
Post ✓

| ID | ZA | ZB |
|------|------|------|
| Tank | S055 | S029 |
| Trap | 4 | 5 |
| 0 | 27 | 27 |
| 5 | 25 | 25 |
| 10 | 23 | 23 |
| 15 | 21 | 21 |
| 20 | 19 | 19 |
| 25 | 17 | 17 |
| 30 | 15 | 15 |
| 35 | 13 | 13 |
| 40 | 11 | 11 |
| 45 | 9 | 9 |
| 50 | 7 | 7 |
| 55 | 5 | 5 |
| 60 | 4 | 4 |

3/18/21

Start 4:53

Leak Check

Pre ✓ ✓

Post ✓ ✓

M25.1 (H35)

| ID | 2A | 2B |
|------|------|------|
| Tank | T-13 | T-16 |
| Trap | 102 | 060 |
| 0 | 27 | 23 |
| 5 | 25 | 20 |
| 10 | 24 | 18 |
| 15 | 22 | 16 |
| 20 | 20 | 14 |
| 25 | 18 | 12 |
| 30 | 16 | 10 |
| 35 | 14 | 8 |
| 40 | 12 | 6 |
| 45 | 10 | 5 |
| 50 | 9 | - |
| 505 | 7 | - |
| 60 | 5 | - |

VOC FIELD DATA SHEET - SCAQMD METHOD 25.3

Outlet

Date: 3/18/21 Test No.: 2
 Client: AAA Barometric Pressure (in. Hg): 29.62
 Unit: CAU Prefest Leak Check: ✓
 Operator Name: TCH A: ✓ B: ✓
 Fuel: _____ Post-test Leak check: _____
 Location: Outlet A: ✓ B: ✓

SAMPLE ~~A~~ C

SAMPLE ~~B~~ D

| Time Minutes | Start Time | Tank # <u>54116</u> Trap # <u>7</u> | |
|-----------------|-------------|-------------------------------------|-------------------|
| | | Flow ml/min. | Vacuum inch Hg |
| 0 | <u>1016</u> | <u>~80</u> | <u>28</u> |
| 5 | | | <u>26</u> |
| 10 | | | <u>24</u> |
| 15 | | | <u>22</u> |
| 20 | | | <u>20</u> |
| 25 | | | <u>18</u> |
| 30 | | | <u>16</u> |
| 35 | | | <u>14</u> |
| 40 | | | <u>12</u> |
| 45 | | | <u>11</u> |
| 50 | | | <u>9</u> |
| 55 | End Time | | <u>7</u> |
| 60 | <u>1116</u> | | <u>5</u> |
| | | | |
| | | | |

| Flow ml/min. | Vacuum inch Hg |
|-----------------|-------------------|
| | |
| <u>~80</u> | <u>27</u> |
| | <u>25</u> |
| | <u>24</u> |
| | <u>22</u> |
| | <u>20</u> |
| | <u>18</u> |
| | <u>16</u> |
| | <u>14</u> |
| | <u>12</u> |
| | <u>10</u> |
| | <u>8</u> |
| | <u>6</u> |
| | <u>5</u> |
| | |
| | |

VOC FIELD DATA SHEET - SCAQMD METHOD 25.1

Inlet

Date: 3/18/21 Test No.: 2
 Client: AAA Barometric Pressure (in. Hg): 29.62
 Unit: CAU Pretest Leak Check:
 Operator Name: TLH A: B:
 Fuel: Post-test Leak check:
 Location: Inlet A: B:

SAMPLE ~~A-C~~

SAMPLE ~~B-D~~

| Time Minutes | Start Time | Tank # <u>T-1</u> Trap # <u>059</u> | |
|-----------------|------------|-------------------------------------|-------------------|
| | | Flow ml/min. | Vacuum inch Hg |
| 0 | 1016 | ~80 | 29 |
| 5 | | | 27 |
| 10 | | | 25 |
| 15 | | | 23 |
| 20 | | | 21 |
| 25 | | | 19 |
| 30 | | | 17 |
| 35 | | | 15 |
| 40 | | | 13 |
| 45 | | | 11 |
| 50 | | | 9 |
| 55 | End Time | | 7 |
| 60 | 1116 | | 5 |
| | | | |
| | | | |

| Tank # <u>T-1</u> Trap # <u>058</u> | |
|-------------------------------------|-------------------|
| Flow ml/min. | Vacuum inch Hg |
| ~80 | 28 |
| | 26 |
| | 24 |
| | 23 |
| | 21 |
| | 19 |
| | 17 |
| | 16 |
| | 14 |
| | 12 |
| | 10 |
| | 8 |
| | 6 |
| | |
| | |

VOC FIELD DATA SHEET - SCAQMD METHOD 25.3

Date: 3-19-21 Test No.: 3
 Client: AAA Barometric Pressure (in. Hg): 29.76
 Unit: CAU Pretest Leak Check: B: ✓
 Operator Name: AMK/TCH A: ✓
 Fuel: Post-test Leak check: B: ✓
 Location: Irvine CA A: ✓

SAMPLE A

SAMPLE B

| | | Tank # <u>A127</u> Trap # <u>11</u> | |
|--------------|-------------|-------------------------------------|----------------|
| | | Control ID: | |
| Time Minutes | Start Time | Flow ml/min. | Vacuum inch Hg |
| 0 | <u>0900</u> | <u>~80</u> | <u>28</u> |
| 5 | | | <u>26</u> |
| 10 | | | <u>24</u> |
| 15 | | | <u>22</u> |
| 20 | | | <u>20</u> |
| 25 | | | <u>18</u> |
| 30 | | | <u>16</u> |
| 35 | | | <u>14</u> |
| 40 | | | <u>12</u> |
| 45 | | | <u>10</u> |
| 50 | | | <u>8</u> |
| 55 | End Time | | <u>6</u> |
| 60 | <u>1000</u> | | <u>4</u> |
| | | | |
| | | | |

| | | Tank # <u>777</u> Trap # <u>12</u> | |
|--------------|----------------|------------------------------------|--|
| | | Control ID: | |
| Flow ml/min. | Vacuum inch Hg | | |
| <u>~80</u> | <u>27</u> | | |
| | <u>25</u> | | |
| | <u>23</u> | | |
| | <u>21</u> | | |
| | <u>19</u> | | |
| | <u>18</u> | | |
| | <u>15</u> | | |
| | <u>13</u> | | |
| | <u>11</u> | | |
| | <u>10</u> | | |
| | <u>8</u> | | |
| | <u>6</u> | | |
| | <u>4</u> | | |
| | | | |
| | | | |

VOC FIELD DATA SHEET - SCAQMD METHOD 25.1

Date: 3/19/21 Test No.: 3
 Client: AAA Barometric Pressure (in. Hg): 29.76
 Unit: CAU Pretest Leak Check: ✓
 Operator Name: AMK/TCH A: ✓ B: ✓
 Fuel: _____ Post-test Leak check: _____
 Location: Irvine, CA A: ✓ B: ✓

SAMPLE A

SAMPLE B

| Time Minutes | Start Time | Tank # <u>1</u> | Trap # <u>065</u> |
|-----------------|-------------|-------------------------|-------------------|
| | | Control ID: <u>1451</u> | |
| | | Flow ml/min. | Vacuum inch Hg |
| 0 | <u>0900</u> | ~80 | <u>28</u> |
| 5 | | | <u>26</u> |
| 10 | | | <u>25</u> |
| 15 | | | <u>23</u> |
| 20 | | | <u>21</u> |
| 25 | | | <u>20</u> |
| 30 | | | <u>19</u> |
| 35 | | | <u>17</u> |
| 40 | | | <u>16</u> |
| 45 | | | <u>15</u> |
| 50 | | | <u>13</u> |
| 55 | End Time | | <u>11</u> |
| 60 | <u>1000</u> | | <u>10</u> |
| | | | |
| | | | |

| Flow ml/min. | Vacuum inch Hg | Tank # <u>19</u> | Trap # <u>074</u> |
|-----------------|-------------------|-------------------------|-------------------|
| | | Control ID: <u>1820</u> | |
| ~80 | <u>27</u> | | |
| | <u>25</u> | | |
| | <u>23</u> | | |
| | <u>21</u> | | |
| | <u>20</u> | | |
| | <u>19</u> | | |
| | <u>18</u> | | |
| | <u>16</u> | | |
| | <u>14</u> | | |
| | <u>13</u> | | |
| | <u>11</u> | | |
| | <u>9</u> | | |
| | <u>8</u> | | |
| | | | |
| | | | |

Last Page of Report