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Fax : 908 789 8922

# Cover Page

**Order ID :** Q1232

**Project ID :** NYCDDC SANTWOBR Brooklyn Bridge BBMCR

**Client :** RU2 Engineering, LLC

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1232-01 | JPP-46.2-012925 |
| Q1232-02 | JPP-46.2-012925 |
| Q1232-03 | JPP-46.2-012925 |
| Q1232-04 | JPP-46.2-012925 |
| Q1232-05 | JPP-46.1-012925 |
| Q1232-06 | JPP-46.1-012925 |
| Q1232-07 | JPP-46.1-012925 |
| Q1232-08 | JPP-46.1-012925 |
| Q1232-09 | JPP-42.1-012925 |
| Q1232-10 | JPP-42.1-012925 |
| Q1232-11 | JPP-42.1-012925 |
| Q1232-12 | JPP-42.1-012925 |
| Q1232-13 | JPP-42.2-012925 |
| Q1232-14 | JPP-42.2-012925 |
| Q1232-15 | JPP-42.2-012925 |
| Q1232-16 | JPP-42.2-012925 |
| Q1232-17 | JPP-51.1-012925 |
| Q1232-18 | JPP-51.1-012925 |
| Q1232-19 | JPP-51.1-012925 |
| Q1232-20 | JPP-51.1-012925 |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 2/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**RU2 Engineering, LLC**
**Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR**
**Project # N/A**
**Chemtech Project # Q1232**
**Test Name: Gasoline Range Organics**

**A. Number of Samples and Date of Receipt:**
20 Solid samples were received on 01/30/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL and VOCMS Group1. This data package contains results for Gasoline Range Organics.

**C. Analytical Techniques:**
The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909.The analysis of Gasoline Range Organics was based on method 8015D.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

**E. Additional Comments:**
The soil samples results are based on a dry weight basis.

**F. Manual Integration Comments:**
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

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# GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1232 MATRIX: Solid

METHOD: 8015D/3541

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Chromatograms Labeled/Compounds Identified. | | | ✓ |
| 2. | Standard Summary Submitted. | | | ✓ |
| 3. | Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD.<br><br>The Initial Calibration met the requirements .<br><br>The Continuous Calibration met the requirements . | | | ✓ |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 5. | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | | | ✓ |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable range.<br><br>The Blank Spike met requirements for all samples .<br><br>The Blank Spike Duplicate met requirements for all samples .<br><br>The RPD met criteria . | | | ✓ |
| 7. | Retention Time Shift Meet Criteria (if applicable)<br><br>Comments: | | | ✓ |
| 8. | Extraction Holding Time Met<br><br>If not met, list number of days exceeded for each sample: | | ✓ | |
| 9. | Analysis Holding Time Met<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable range.<br><br>The Holding Times were met for all analysis. | | ✓ | |

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## GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

The soil samples results are based on a dry weight basis.

_____ _____

QA REVIEW Date

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q1232

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** SOHIL JODHANI **Date:** 02/10/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1232 | **OrderDate:** | 1/30/2025 11:55:00 AM |
| **Client:** | RU2 Engineering, LLC | **Project:** | NYCDDC SANTWOBR Brooklyn Bridge BBMCR |
| **Contact:** | Rutu Manani | **Location:** | E11,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1232-01** | **JPP-46.2-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Diesel Range Organics | 8015D | | 01/31/25 | 01/31/25 | |
| | | | Gasoline Range Organics | 8015D | | | 01/31/25 | |
| **Q1232-03** | **JPP-46.2-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Pesticide-TCL | 8081B | | 01/31/25 | 01/31/25 | |
| **Q1232-04** | **JPP-46.2-012925** | **TCLP** | | | **01/29/25** | | | **01/30/25** |
| | | | TCLP Pesticide | 8081B | | 01/31/25 | 02/03/25 | |
| **Q1232-05** | **JPP-46.1-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Diesel Range Organics | 8015D | | 01/31/25 | 01/31/25 | |
| | | | Gasoline Range Organics | 8015D | | | 02/03/25 | |
| **Q1232-07** | **JPP-46.1-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Pesticide-TCL | 8081B | | 01/31/25 | 01/31/25 | |
| **Q1232-08** | **JPP-46.1-012925** | **TCLP** | | | **01/29/25** | | | **01/30/25** |
| | | | TCLP Pesticide | 8081B | | 01/31/25 | 02/03/25 | |
| **Q1232-09** | **JPP-42.1-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Diesel Range Organics | 8015D | | 01/31/25 | 01/31/25 | |
| | | | Gasoline Range Organics | 8015D | | | 02/03/25 | |
| **Q1232-11** | **JPP-42.1-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Pesticide-TCL | 8081B | | 01/31/25 | 01/31/25 | |
| **Q1232-12** | **JPP-42.1-012925** | **TCLP** | | | **01/29/25** | | | **01/30/25** |
| | | | TCLP Pesticide | 8081B | | 01/31/25 | 02/03/25 | |
| **Q1232-13** | **JPP-42.2-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Diesel Range Organics | 8015D | | 01/31/25 | 01/31/25 | |
| | | | Gasoline Range Organics | 8015D | | | 02/03/25 | |

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# LAB CHRONICLE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Q1232-15** | **JPP-42.2-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Pesticide-TCL | 8081B | | 01/31/25 | 01/31/25 | |
| **Q1232-16** | **JPP-42.2-012925** | **TCLP** | | | **01/29/25** | | | **01/30/25** |
| | | | TCLP Pesticide | 8081B | | 01/31/25 | 02/03/25 | |
| **Q1232-17** | **JPP-51.1-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Diesel Range Organics | 8015D | | 01/31/25 | 01/31/25 | |
| | | | Gasoline Range Organics | 8015D | | | 02/03/25 | |
| **Q1232-19** | **JPP-51.1-012925** | **SOIL** | | | **01/29/25** | | | **01/30/25** |
| | | | Pesticide-TCL | 8081B | | 01/31/25 | 01/31/25 | |
| **Q1232-20** | **JPP-51.1-012925** | **TCLP** | | | **01/29/25** | | | **01/30/25** |
| | | | TCLP Pesticide | 8081B | | 01/31/25 | 02/03/25 | |

# QC
# SUMMARY

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## SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: RU2 Engineering, LLC

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

| EPA SAMPLE NO. | S1 AAA-TFT | S2 | S3 | S4 | TOT OUT |
|---|---|---|---|---|---|
| VBF0131S1 | 103 | | | | 0 |
| BSF0131S1 | 98 | | | | 0 |
| BSF0131S2 | 91 | | | | 0 |
| JPP-46.2-012925 | 95 | | | | 0 |
| VBF0203S1 | 92 | | | | 0 |
| BSF0203S1 | 98 | | | | 0 |
| JPP-46.1-012925 | 74 | | | | 0 |
| JPP-42.1-012925 | 77 | | | | 0 |
| JPP-42.2-012925 | 80 | | | | 0 |
| JPP-51.1-012925 | 86 | | | | 0 |

| | QC LIMITS |
|---|---|
| AAA-TFT | For Water : 50-150<br>For Soil : 50-150 |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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## SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

**Lab Name:** Chemtech **Client:** RU2 Engineering, LLC

**Lab Code:** CHEM **Cas No:** Q1232 **SAS No :** Q1232 **SDG No:** Q1232

**Matrix Spike - EPA Sample No :** BSF0131S1 **Datafile:** FB031415.D

| COMPOUND | SPIKE ADDED ug/kg | CONCENTRATION ug/kg | LCS/LCSD CONCENTRATION ug/kg | % REC | QC LIMITS |
|---|---|---|---|---|---|
| GRO | 180 | 0 | 173 | 96 | 50-150 |

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## SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

**Lab Name:** Chemtech **Client:** RU2 Engineering, LLC

**Lab Code:** CHEM **Cas No:** Q1232 **SAS No :** Q1232 **SDG No:** Q1232

**Matrix Spike - EPA Sample No :** BSF0131S2 **Datafile:** FB031420.D

| COMPOUND | SPIKE ADDED ug/kg | CONCENTRATION ug/kg | LCS/LCSD CONCENTRATION ug/kg | % REC | QC LIMITS |
|---|---|---|---|---|---|
| GRO | 180 | 0 | 168 | 93 | 50-150 |

LCS/LCSD % Recovery RPD : 3.0

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## SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICAT

**Lab Name:** Chemtech **Client:** RU2 Engineering, LLC

**Lab Code:** CHEM **Cas No:** Q1232 **SAS No :** Q1232 **SDG No:** Q1232

**Matrix Spike - EPA Sample No :** BSF0203S1 **Datafile:** FB031442.D

| COMPOUND | SPIKE ADDED ug/kg | CONCENTRATION ug/kg | LCS/LCSD CONCENTRATION ug/kg | % REC | QC LIMITS |
|---|---|---|---|---|---|
| GRO | 180 | 0 | 142 | 79 | 50-150 |

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# METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0131S1

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG NO.: Q1232

Lab File ID: FB031413.D Lab Sample ID: VBF0131S1

Date Analyzed: 01/31/25 Time Analyzed: 9:41

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| BSF0131S1 | BSF0131S1 | FB031415.D | 01/31/25 |
| BSF0131S2 | BSF0131S2 | FB031420.D | 01/31/25 |
| JPP-46.2-012925 | Q1232-01 | FB031435.D | 01/31/25 |

COMMENTS:

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# METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0203S1

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG NO.: Q1232

Lab File ID: FB031440.D Lab Sample ID: VBF0203S1

Date Analyzed: 02/03/25 Time Analyzed: 11:47

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: FB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| BSF0203S1 | BSF0203S1 | FB031442.D | 02/03/25 |
| JPP-46.1-012925 | Q1232-05 | FB031443.D | 02/03/25 |
| JPP-42.1-012925 | Q1232-09 | FB031444.D | 02/03/25 |
| JPP-42.2-012925 | Q1232-13 | FB031445.D | 02/03/25 |
| JPP-51.1-012925 | Q1232-17 | FB031446.D | 02/03/25 |

COMMENTS:

Alliance
TECHNICAL GROUP

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/29/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | JPP-46.2-012925 | SDG No.: | Q1232 |
| Lab Sample ID: | Q1232-01 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 89.7 Decanted: |
| Sample Wt/Vol: | 8.31 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031435.D | 1 | 01/31/25 20:45 | FB013125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 30.0 | U | 5.00 | 30.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 19.0 | | 50 - 150 | 95% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031435.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 20:45
Operator : YP/AJ
Sample : Q1232-01
Misc : 8.31G/5.00 ML DI WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-46.2-012925

Integration File: Calibration.e
Quant Time: Feb 01 00:17:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.794 | 452513 | 18.971 ng/ml |
| Target Compounds | | | | |

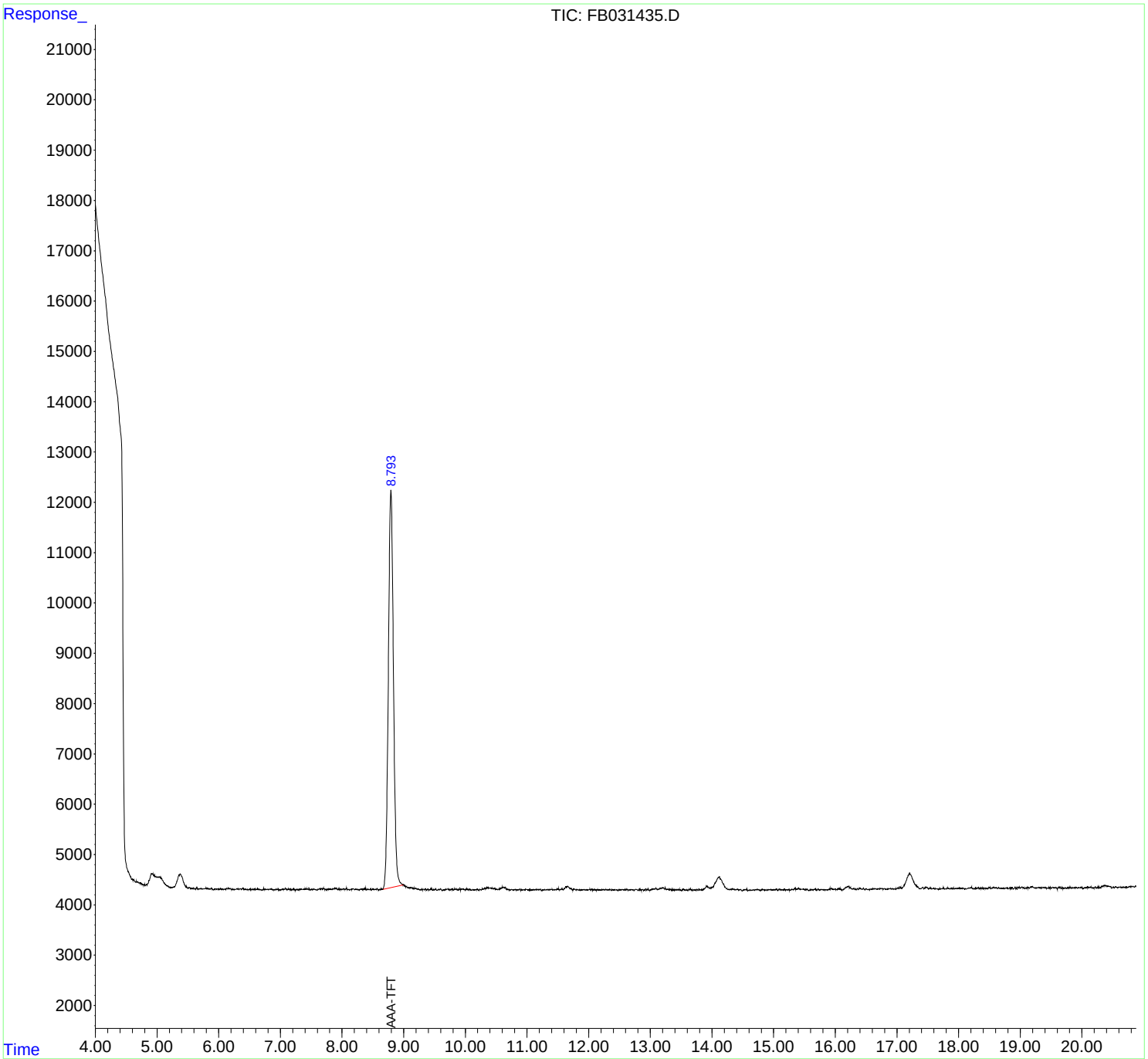
(f)=RT Delta > 1/2 Window (m)=manual int.

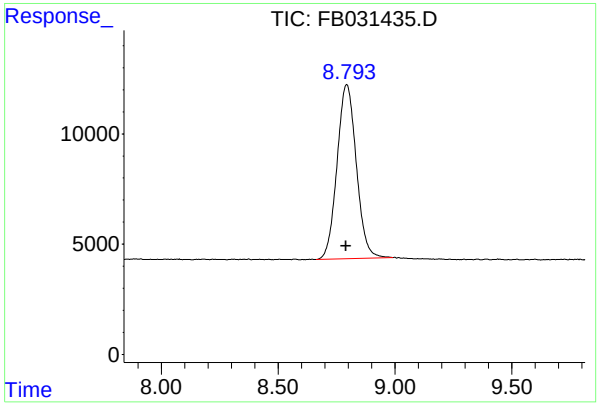
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031435.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 20:45
Operator : YP/AJ
Sample : Q1232-01
Misc : 8.31G/5.00 ML DI WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-46.2-012925

Integration File: Calibration.e
Quant Time: Feb 01 00:17:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.794 min
Delta R.T.: 0.004 mi
Response: 452513
Conc: 18.97 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
JPP-46.2-012925

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031435.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 20:45
Sample : Q1232-01
Misc : 8.31G/5.00 ML DI WATER
ALS Vial : 26 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.663 | 4.621 | 4.678 | BV | 4 | -128 | -0.03% | -0.020% |
| 2 | 4.687 | 4.678 | 4.713 | PV | 19 | 177 | 0.04% | 0.028% |
| 3 | 4.718 | 4.713 | 4.727 | VV | 11 | 79 | 0.02% | 0.012% |
| 4 | 4.737 | 4.727 | 4.770 | VV | 23 | 298 | 0.06% | 0.046% |
| 5 | 4.779 | 4.770 | 4.786 | PV | 15 | 57 | 0.01% | 0.009% |
| 6 | 4.794 | 4.786 | 4.810 | PV | 12 | 117 | 0.03% | 0.018% |
| 7 | 5.013 | 4.999 | 5.026 | VV | 195 | 3088 | 0.66% | 0.481% |
| 8 | 5.214 | 5.198 | 5.241 | PV | 13 | 139 | 0.03% | 0.022% |
| 9 | 5.528 | 5.503 | 5.542 | VV | 30 | 458 | 0.10% | 0.071% |
| 10 | 5.551 | 5.542 | 5.573 | VV | 24 | 235 | 0.05% | 0.037% |
| 11 | 5.591 | 5.573 | 5.607 | VV | 19 | 287 | 0.06% | 0.045% |
| 12 | 5.619 | 5.607 | 5.629 | VV | 17 | 134 | 0.03% | 0.021% |
| 13 | 5.644 | 5.629 | 5.665 | PV | 38 | 380 | 0.08% | 0.059% |
| 14 | 5.681 | 5.665 | 5.689 | PV | 18 | 184 | 0.04% | 0.029% |
| 15 | 5.700 | 5.689 | 5.745 | VV | 19 | 549 | 0.12% | 0.086% |
| 16 | 5.813 | 5.745 | 5.822 | VV | 38 | 1081 | 0.23% | 0.168% |
| 17 | 5.831 | 5.822 | 5.843 | VV | 35 | 305 | 0.07% | 0.048% |
| 18 | 5.855 | 5.843 | 5.865 | VV | 29 | 251 | 0.05% | 0.039% |
| 19 | 5.882 | 5.865 | 5.913 | VV | 40 | 582 | 0.13% | 0.091% |
| 20 | 5.939 | 5.913 | 5.999 | PV | 25 | 887 | 0.19% | 0.138% |
| 21 | 6.007 | 5.999 | 6.017 | VV | 24 | 183 | 0.04% | 0.029% |
| 22 | 6.035 | 6.017 | 6.050 | VV | 31 | 424 | 0.09% | 0.066% |
| 23 | 6.064 | 6.050 | 6.075 | VV | 25 | 265 | 0.06% | 0.041% |
| 24 | 6.121 | 6.075 | 6.141 | VV | 29 | 742 | 0.16% | 0.116% |
| 25 | 6.156 | 6.141 | 6.182 | VV | 44 | 727 | 0.16% | 0.113% |
| 26 | 6.191 | 6.182 | 6.224 | VV | 35 | 483 | 0.10% | 0.075% |
| 27 | 6.232 | 6.224 | 6.257 | VV | 20 | 299 | 0.06% | 0.047% |
| 28 | 6.314 | 6.257 | 6.327 | VV | 34 | 777 | 0.17% | 0.121% |
| 29 | 6.350 | 6.327 | 6.372 | VV | 31 | 595 | 0.13% | 0.093% |
| 30 | 6.392 | 6.372 | 6.414 | VV | 43 | 689 | 0.15% | 0.107% |
| 31 | 6.441 | 6.414 | 6.456 | VV | 23 | 360 | 0.08% | 0.056% |
| 32 | 6.464 | 6.456 | 6.491 | VV | 17 | 235 | 0.05% | 0.037% |
| 33 | 6.499 | 6.491 | 6.505 | VV | 16 | 122 | 0.03% | 0.019% |
| 34 | 6.513 | 6.505 | 6.543 | VV | 32 | 367 | 0.08% | 0.057% |
| 35 | 6.553 | 6.543 | 6.574 | VV | 27 | 289 | 0.06% | 0.045% |
| 36 | 6.587 | 6.574 | 6.598 | VV | 33 | 277 | 0.06% | 0.043% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 6.636 | 6.598 | 6.659 | VV | 38 | 621 | 0.13% | 0.097% |
| 38 | 6.665 | 6.659 | 6.675 | VV | 22 | 148 | 0.03% | 0.023% |
| 39 | 6.689 | 6.675 | 6.700 | VV | 14 | 140 | 0.03% | 0.022% |
| 40 | 6.727 | 6.700 | 6.736 | PV | 36 | 231 | 0.05% | 0.036% |
| 41 | 6.745 | 6.736 | 6.752 | VV | 18 | 145 | 0.03% | 0.023% |
| 42 | 6.759 | 6.752 | 6.771 | VV | 20 | 152 | 0.03% | 0.024% |
| 43 | 6.790 | 6.771 | 6.806 | VV | 16 | 243 | 0.05% | 0.038% |
| 44 | 6.842 | 6.806 | 6.849 | VV | 18 | 321 | 0.07% | 0.050% |
| 45 | 6.857 | 6.849 | 6.867 | VV | 22 | 145 | 0.03% | 0.023% |
| 46 | 6.875 | 6.867 | 6.919 | VB | 14 | 110 | 0.02% | 0.017% |
| 47 | 6.961 | 6.939 | 6.987 | BV | 18 | 197 | 0.04% | 0.031% |
| 48 | 6.998 | 6.987 | 7.005 | PV | 12 | 54 | 0.01% | 0.008% |
| 49 | 7.035 | 7.005 | 7.045 | VV | 20 | 293 | 0.06% | 0.046% |
| 50 | 7.082 | 7.045 | 7.120 | VV | 35 | 819 | 0.18% | 0.128% |
| 51 | 7.138 | 7.120 | 7.158 | VV | 24 | 407 | 0.09% | 0.063% |
| 52 | 7.173 | 7.158 | 7.185 | VV | 30 | 257 | 0.06% | 0.040% |
| 53 | 7.218 | 7.185 | 7.259 | PV | 36 | 566 | 0.12% | 0.088% |
| 54 | 7.278 | 7.259 | 7.289 | VV | 23 | 247 | 0.05% | 0.039% |
| 55 | 7.342 | 7.289 | 7.354 | PV | 27 | 738 | 0.16% | 0.115% |
| 56 | 7.362 | 7.354 | 7.371 | VV | 25 | 198 | 0.04% | 0.031% |
| 57 | 7.382 | 7.371 | 7.396 | VV | 29 | 330 | 0.07% | 0.051% |
| 58 | 7.404 | 7.396 | 7.414 | VV | 31 | 246 | 0.05% | 0.038% |
| 59 | 7.425 | 7.414 | 7.457 | VV | 30 | 614 | 0.13% | 0.096% |
| 60 | 7.466 | 7.457 | 7.479 | VV | 48 | 300 | 0.06% | 0.047% |
| 61 | 7.489 | 7.479 | 7.497 | VV | 16 | 106 | 0.02% | 0.017% |
| 62 | 7.513 | 7.497 | 7.525 | VV | 31 | 280 | 0.06% | 0.044% |
| 63 | 7.541 | 7.525 | 7.571 | VV | 35 | 545 | 0.12% | 0.085% |
| 64 | 7.578 | 7.571 | 7.596 | VV | 20 | 170 | 0.04% | 0.026% |
| 65 | 7.610 | 7.596 | 7.618 | VV | 23 | 181 | 0.04% | 0.028% |
| 66 | 7.640 | 7.618 | 7.650 | VV | 38 | 499 | 0.11% | 0.078% |
| 67 | 7.671 | 7.650 | 7.691 | VV | 36 | 672 | 0.14% | 0.105% |
| 68 | 7.699 | 7.691 | 7.719 | VV | 39 | 524 | 0.11% | 0.082% |
| 69 | 7.730 | 7.719 | 7.739 | VV | 22 | 241 | 0.05% | 0.038% |
| 70 | 7.804 | 7.739 | 7.827 | VV | 35 | 1130 | 0.24% | 0.176% |
| 71 | 7.913 | 7.827 | 7.936 | VV | 48 | 1930 | 0.41% | 0.301% |
| 72 | 7.986 | 7.936 | 8.004 | VV | 29 | 898 | 0.19% | 0.140% |
| 73 | 8.029 | 8.004 | 8.052 | VV | 37 | 779 | 0.17% | 0.121% |
| 74 | 8.077 | 8.052 | 8.092 | VV | 40 | 652 | 0.14% | 0.102% |
| 75 | 8.102 | 8.092 | 8.131 | VV | 19 | 361 | 0.08% | 0.056% |
| 76 | 8.162 | 8.131 | 8.168 | VV | 30 | 459 | 0.10% | 0.072% |
| 77 | 8.180 | 8.168 | 8.206 | VV | 37 | 574 | 0.12% | 0.089% |
| 78 | 8.219 | 8.206 | 8.238 | VV | 32 | 428 | 0.09% | 0.067% |
| 79 | 8.248 | 8.238 | 8.256 | VV | 25 | 211 | 0.05% | 0.033% |
| 80 | 8.265 | 8.256 | 8.281 | VV | 23 | 229 | 0.05% | 0.036% |
| 81 | 8.313 | 8.281 | 8.331 | VV | 32 | 641 | 0.14% | 0.100% |
| 82 | 8.358 | 8.331 | 8.366 | VV | 34 | 508 | 0.11% | 0.079% |
| 83 | 8.375 | 8.366 | 8.387 | VV | 46 | 337 | 0.07% | 0.052% |
| 84 | 8.421 | 8.387 | 8.442 | VV | 28 | 602 | 0.13% | 0.094% |
| 85 | 8.461 | 8.442 | 8.479 | VV | 28 | 410 | 0.09% | 0.064% |
| 86 | 8.507 | 8.479 | 8.537 | VV | 31 | 687 | 0.15% | 0.107% |
| 87 | 8.546 | 8.537 | 8.556 | VV | 24 | 215 | 0.05% | 0.034% |
| 88 | 8.568 | 8.556 | 8.594 | VV | 34 | 494 | 0.11% | 0.077% |
| 89 | 8.646 | 8.594 | 8.662 | VV | 36 | 841 | 0.18% | 0.131% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 8.794 | 8.662 | 8.991 | VV | 7956 | 465437 | 100.00% | 72.511% |
| 91 | 8.998 | 8.991 | 9.008 | VV | 123 | 1093 | 0.23% | 0.170% |
| 92 | 9.017 | 9.008 | 9.029 | VV | 108 | 1175 | 0.25% | 0.183% |
| 93 | 9.038 | 9.029 | 9.088 | VV | 86 | 2362 | 0.51% | 0.368% |
| 94 | 9.097 | 9.088 | 9.127 | VV | 59 | 1261 | 0.27% | 0.196% |
| 95 | 9.136 | 9.127 | 9.158 | VV | 55 | 885 | 0.19% | 0.138% |
| 96 | 9.165 | 9.158 | 9.220 | VV | 48 | 1373 | 0.29% | 0.214% |
| 97 | 9.236 | 9.220 | 9.266 | VV | 37 | 684 | 0.15% | 0.107% |
| 98 | 9.297 | 9.266 | 9.306 | VV | 35 | 485 | 0.10% | 0.076% |
| 99 | 9.324 | 9.306 | 9.337 | VV | 28 | 403 | 0.09% | 0.063% |
| 100 | 9.354 | 9.337 | 9.369 | VV | 32 | 451 | 0.10% | 0.070% |
| 101 | 9.390 | 9.369 | 9.409 | VV | 33 | 496 | 0.11% | 0.077% |
| 102 | 9.441 | 9.409 | 9.473 | VV | 44 | 826 | 0.18% | 0.129% |
| 103 | 9.522 | 9.473 | 9.550 | VV | 38 | 718 | 0.15% | 0.112% |
| 104 | 9.567 | 9.550 | 9.577 | VV | 28 | 297 | 0.06% | 0.046% |
| 105 | 9.600 | 9.577 | 9.626 | VV | 35 | 574 | 0.12% | 0.089% |
| 106 | 9.655 | 9.626 | 9.665 | VV | 19 | 283 | 0.06% | 0.044% |
| 107 | 9.681 | 9.665 | 9.688 | VV | 23 | 227 | 0.05% | 0.035% |
| 108 | 9.712 | 9.688 | 9.719 | VV | 30 | 467 | 0.10% | 0.073% |
| 109 | 9.726 | 9.719 | 9.741 | VV | 37 | 312 | 0.07% | 0.049% |
| 110 | 9.794 | 9.741 | 9.812 | VV | 38 | 897 | 0.19% | 0.140% |
| 111 | 9.821 | 9.812 | 9.837 | VV | 29 | 344 | 0.07% | 0.054% |
| 112 | 9.851 | 9.837 | 9.878 | VV | 41 | 600 | 0.13% | 0.094% |
| 113 | 9.887 | 9.878 | 9.896 | VV | 33 | 198 | 0.04% | 0.031% |
| 114 | 9.913 | 9.896 | 9.924 | VV | 53 | 436 | 0.09% | 0.068% |
| 115 | 9.937 | 9.924 | 9.945 | VV | 34 | 346 | 0.07% | 0.054% |
| 116 | 9.954 | 9.945 | 9.979 | VV | 35 | 573 | 0.12% | 0.089% |
| 117 | 9.988 | 9.979 | 10.006 | VV | 21 | 306 | 0.07% | 0.048% |
| 118 | 10.020 | 10.006 | 10.046 | VV | 33 | 554 | 0.12% | 0.086% |
| 119 | 10.054 | 10.046 | 10.060 | VV | 25 | 144 | 0.03% | 0.022% |
| 120 | 10.069 | 10.060 | 10.092 | VV | 33 | 371 | 0.08% | 0.058% |
| 121 | 10.195 | 10.092 | 10.218 | VV | 34 | 1242 | 0.27% | 0.193% |
| 122 | 10.232 | 10.218 | 10.259 | VV | 31 | 423 | 0.09% | 0.066% |
| 123 | 10.279 | 10.259 | 10.296 | VV | 42 | 615 | 0.13% | 0.096% |
| 124 | 10.311 | 10.296 | 10.341 | VV | 51 | 1124 | 0.24% | 0.175% |
| 125 | 10.354 | 10.341 | 10.375 | VV | 71 | 1119 | 0.24% | 0.174% |
| 126 | 10.382 | 10.375 | 10.427 | VV | 58 | 1598 | 0.34% | 0.249% |
| 127 | 10.436 | 10.427 | 10.466 | VV | 53 | 982 | 0.21% | 0.153% |
| 128 | 10.479 | 10.466 | 10.489 | VV | 51 | 549 | 0.12% | 0.085% |
| 129 | 10.494 | 10.489 | 10.521 | VV | 37 | 566 | 0.12% | 0.088% |
| 130 | 10.532 | 10.521 | 10.551 | VV | 30 | 470 | 0.10% | 0.073% |
| 131 | 10.568 | 10.551 | 10.577 | VV | 53 | 610 | 0.13% | 0.095% |
| 132 | 10.626 | 10.577 | 10.639 | VV | 71 | 2193 | 0.47% | 0.342% |
| 133 | 10.651 | 10.639 | 10.694 | VV | 66 | 1316 | 0.28% | 0.205% |
| 134 | 10.705 | 10.694 | 10.717 | VV | 32 | 289 | 0.06% | 0.045% |
| 135 | 10.731 | 10.717 | 10.738 | VV | 22 | 204 | 0.04% | 0.032% |
| 136 | 10.750 | 10.738 | 10.775 | VV | 28 | 447 | 0.10% | 0.070% |
| 137 | 10.781 | 10.775 | 10.789 | VV | 19 | 134 | 0.03% | 0.021% |
| 138 | 10.803 | 10.789 | 10.836 | VV | 24 | 562 | 0.12% | 0.087% |
| 139 | 10.850 | 10.836 | 10.861 | VV | 21 | 251 | 0.05% | 0.039% |
| 140 | 10.870 | 10.861 | 10.874 | VV | 17 | 124 | 0.03% | 0.019% |
| 141 | 10.887 | 10.874 | 10.905 | VV | 31 | 339 | 0.07% | 0.053% |

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| 142 | 10.915 | 10.905 | 10.922 | VV | 20 | 141 | 0.03% | 0.022% |
| 143 | 10.953 | 10.922 | 10.966 | VV | 22 | 451 | 0.10% | 0.070% |
| 144 | 10.982 | 10.966 | 11.019 | VV | 30 | 681 | 0.15% | 0.106% |
| 145 | 11.029 | 11.019 | 11.039 | VV | 21 | 187 | 0.04% | 0.029% |
| 146 | 11.049 | 11.039 | 11.069 | VV | 33 | 252 | 0.05% | 0.039% |
| 147 | 11.104 | 11.069 | 11.111 | VV | 21 | 392 | 0.08% | 0.061% |
| 148 | 11.154 | 11.111 | 11.167 | VV | 25 | 685 | 0.15% | 0.107% |
| 149 | 11.179 | 11.167 | 11.190 | VV | 28 | 295 | 0.06% | 0.046% |
| 150 | 11.221 | 11.190 | 11.236 | VV | 35 | 611 | 0.13% | 0.095% |
| 151 | 11.262 | 11.236 | 11.281 | VV | 24 | 352 | 0.08% | 0.055% |
| 152 | 11.289 | 11.281 | 11.304 | VV | 26 | 255 | 0.05% | 0.040% |
| 153 | 11.326 | 11.304 | 11.334 | VV | 24 | 343 | 0.07% | 0.053% |
| 154 | 11.371 | 11.334 | 11.378 | VV | 26 | 550 | 0.12% | 0.086% |
| 155 | 11.390 | 11.378 | 11.423 | VV | 29 | 616 | 0.13% | 0.096% |
| 156 | 11.442 | 11.423 | 11.453 | VV | 27 | 359 | 0.08% | 0.056% |
| 157 | 11.467 | 11.453 | 11.479 | VV | 27 | 322 | 0.07% | 0.050% |
| 158 | 11.493 | 11.479 | 11.501 | VV | 35 | 367 | 0.08% | 0.057% |
| 159 | 11.508 | 11.501 | 11.531 | VV | 40 | 460 | 0.10% | 0.072% |
| 160 | 11.541 | 11.531 | 11.548 | VV | 28 | 251 | 0.05% | 0.039% |
| 161 | 11.564 | 11.548 | 11.587 | VV | 46 | 715 | 0.15% | 0.111% |
| 162 | 11.628 | 11.587 | 11.638 | VV | 83 | 1599 | 0.34% | 0.249% |
| 163 | 11.644 | 11.638 | 11.648 | VV | 81 | 458 | 0.10% | 0.071% |
| 164 | 11.661 | 11.648 | 11.718 | VV | 92 | 2734 | 0.59% | 0.426% |
| 165 | 11.721 | 11.718 | 11.736 | VV | 46 | 349 | 0.08% | 0.054% |
| 166 | 11.755 | 11.736 | 11.763 | VV | 43 | 446 | 0.10% | 0.069% |
| 167 | 11.775 | 11.763 | 11.793 | VV | 35 | 510 | 0.11% | 0.079% |
| 168 | 11.815 | 11.793 | 11.838 | VV | 29 | 569 | 0.12% | 0.089% |
| 169 | 11.845 | 11.838 | 11.861 | VV | 22 | 236 | 0.05% | 0.037% |
| 170 | 11.888 | 11.861 | 11.896 | VV | 23 | 345 | 0.07% | 0.054% |
| 171 | 11.906 | 11.896 | 11.922 | VV | 22 | 313 | 0.07% | 0.049% |
| 172 | 11.932 | 11.922 | 11.942 | VV | 28 | 241 | 0.05% | 0.038% |
| 173 | 11.964 | 11.942 | 11.991 | VV | 21 | 550 | 0.12% | 0.086% |
| 174 | 12.022 | 11.991 | 12.033 | VV | 32 | 598 | 0.13% | 0.093% |
| 175 | 12.052 | 12.033 | 12.061 | VV | 38 | 438 | 0.09% | 0.068% |
| 176 | 12.067 | 12.061 | 12.122 | VV | 31 | 715 | 0.15% | 0.111% |
| 177 | 12.143 | 12.122 | 12.179 | VV | 24 | 616 | 0.13% | 0.096% |
| 178 | 12.188 | 12.179 | 12.199 | VV | 24 | 206 | 0.04% | 0.032% |
| 179 | 12.233 | 12.199 | 12.264 | VV | 27 | 824 | 0.18% | 0.128% |
| 180 | 12.286 | 12.264 | 12.305 | VV | 27 | 527 | 0.11% | 0.082% |
| 181 | 12.347 | 12.305 | 12.372 | VV | 34 | 869 | 0.19% | 0.135% |
| 182 | 12.383 | 12.372 | 12.414 | VV | 31 | 499 | 0.11% | 0.078% |
| 183 | 12.424 | 12.414 | 12.433 | VV | 29 | 222 | 0.05% | 0.035% |
| 184 | 12.449 | 12.433 | 12.475 | VV | 23 | 422 | 0.09% | 0.066% |
| 185 | 12.518 | 12.475 | 12.542 | VV | 23 | 754 | 0.16% | 0.117% |
| 186 | 12.553 | 12.542 | 12.569 | VV | 30 | 367 | 0.08% | 0.057% |
| 187 | 12.581 | 12.569 | 12.589 | VV | 26 | 270 | 0.06% | 0.042% |
| 188 | 12.595 | 12.589 | 12.606 | VV | 34 | 217 | 0.05% | 0.034% |
| 189 | 12.622 | 12.606 | 12.652 | VV | 41 | 615 | 0.13% | 0.096% |
| 190 | 12.661 | 12.652 | 12.677 | VV | 24 | 284 | 0.06% | 0.044% |
| 191 | 12.687 | 12.677 | 12.697 | VV | 30 | 278 | 0.06% | 0.043% |
| 192 | 12.704 | 12.697 | 12.715 | VV | 27 | 240 | 0.05% | 0.037% |
| 193 | 12.723 | 12.715 | 12.736 | VV | 27 | 259 | 0.06% | 0.040% |
| 194 | 12.768 | 12.736 | 12.803 | VV | 35 | 909 | 0.20% | 0.142% |

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| 195 | 12.824 | 12.803 | 12.854 | VV | 44 | 717 | 0.15% | 0.112% |
| 196 | 12.879 | 12.854 | 12.891 | VV | 32 | 486 | 0.10% | 0.076% |
| 197 | 12.927 | 12.891 | 12.939 | VV | 46 | 666 | 0.14% | 0.104% |
| 198 | 12.952 | 12.939 | 12.958 | VV | 32 | 313 | 0.07% | 0.049% |
| 199 | 12.965 | 12.958 | 12.987 | VV | 50 | 411 | 0.09% | 0.064% |
| 200 | 13.033 | 12.987 | 13.074 | VV | 46 | 1600 | 0.34% | 0.249% |
| 201 | 13.092 | 13.074 | 13.116 | VV | 55 | 1008 | 0.22% | 0.157% |
| 202 | 13.161 | 13.116 | 13.172 | VV | 62 | 1410 | 0.30% | 0.220% |
| 203 | 13.203 | 13.172 | 13.232 | VV | 65 | 1972 | 0.42% | 0.307% |
| 204 | 13.242 | 13.232 | 13.269 | VV | 65 | 880 | 0.19% | 0.137% |
| 205 | 13.281 | 13.269 | 13.310 | VV | 36 | 739 | 0.16% | 0.115% |
| 206 | 13.319 | 13.310 | 13.341 | VV | 38 | 513 | 0.11% | 0.080% |
| 207 | 13.350 | 13.341 | 13.362 | VV | 25 | 252 | 0.05% | 0.039% |
| 208 | 13.375 | 13.362 | 13.391 | VV | 33 | 284 | 0.06% | 0.044% |
| 209 | 13.398 | 13.391 | 13.405 | VV | 33 | 195 | 0.04% | 0.030% |
| 210 | 13.414 | 13.405 | 13.460 | VV | 27 | 741 | 0.16% | 0.115% |
| 211 | 13.473 | 13.460 | 13.504 | VV | 38 | 565 | 0.12% | 0.088% |
| 212 | 13.538 | 13.504 | 13.560 | VV | 42 | 923 | 0.20% | 0.144% |
| 213 | 13.569 | 13.560 | 13.582 | VV | 27 | 296 | 0.06% | 0.046% |
| 214 | 13.591 | 13.582 | 13.604 | VV | 30 | 257 | 0.06% | 0.040% |
| 215 | 13.653 | 13.604 | 13.670 | VV | 37 | 989 | 0.21% | 0.154% |
| 216 | 13.680 | 13.670 | 13.692 | VV | 32 | 245 | 0.05% | 0.038% |
| 217 | 13.705 | 13.692 | 13.723 | VV | 27 | 352 | 0.08% | 0.055% |
| 218 | 13.734 | 13.723 | 13.743 | VV | 24 | 205 | 0.04% | 0.032% |
| 219 | 13.759 | 13.743 | 13.776 | VV | 37 | 459 | 0.10% | 0.071% |
| 220 | 13.791 | 13.776 | 13.802 | VV | 41 | 393 | 0.08% | 0.061% |
| 221 | 13.832 | 13.802 | 13.840 | VV | 38 | 580 | 0.12% | 0.090% |
| 222 | 13.912 | 13.840 | 13.967 | VV | 106 | 4566 | 0.98% | 0.711% |
| 223 | 13.976 | 13.967 | 13.991 | VV | 70 | 883 | 0.19% | 0.138% |
| 224 | 14.122 | 13.991 | 14.238 | VV | 287 | 24072 | 5.17% | 3.750% |
| 225 | 14.245 | 14.238 | 14.260 | VV | 52 | 566 | 0.12% | 0.088% |
| 226 | 14.289 | 14.260 | 14.298 | VV | 37 | 712 | 0.15% | 0.111% |
| 227 | 14.324 | 14.298 | 14.345 | VV | 49 | 1031 | 0.22% | 0.161% |
| 228 | 14.354 | 14.345 | 14.363 | VV | 38 | 379 | 0.08% | 0.059% |
| 229 | 14.371 | 14.363 | 14.385 | VV | 40 | 418 | 0.09% | 0.065% |
| 230 | 14.393 | 14.385 | 14.398 | VV | 29 | 223 | 0.05% | 0.035% |
| 231 | 14.424 | 14.398 | 14.433 | VV | 40 | 681 | 0.15% | 0.106% |
| 232 | 14.442 | 14.433 | 14.450 | VV | 32 | 267 | 0.06% | 0.042% |
| 233 | 14.461 | 14.450 | 14.491 | VV | 32 | 531 | 0.11% | 0.083% |
| 234 | 14.528 | 14.491 | 14.537 | PV | 35 | 556 | 0.12% | 0.087% |
| 235 | 14.546 | 14.537 | 14.554 | VV | 30 | 293 | 0.06% | 0.046% |
| 236 | 14.563 | 14.554 | 14.578 | VV | 43 | 381 | 0.08% | 0.059% |
| 237 | 14.594 | 14.578 | 14.605 | VV | 19 | 186 | 0.04% | 0.029% |
| 238 | 14.621 | 14.605 | 14.644 | VV | 25 | 405 | 0.09% | 0.063% |
| 239 | 14.677 | 14.644 | 14.691 | VV | 26 | 550 | 0.12% | 0.086% |
| 240 | 14.700 | 14.691 | 14.705 | VV | 25 | 161 | 0.03% | 0.025% |
| 241 | 14.716 | 14.705 | 14.727 | VV | 31 | 322 | 0.07% | 0.050% |
| 242 | 14.739 | 14.727 | 14.782 | VV | 37 | 786 | 0.17% | 0.122% |
| 243 | 14.802 | 14.782 | 14.810 | VV | 30 | 301 | 0.06% | 0.047% |
| 244 | 14.829 | 14.810 | 14.845 | VV | 34 | 551 | 0.12% | 0.086% |
| 245 | 14.854 | 14.845 | 14.891 | VV | 25 | 492 | 0.11% | 0.077% |
| 246 | 14.903 | 14.891 | 14.913 | VV | 26 | 251 | 0.05% | 0.039% |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 14.923 | 14.913 | 14.944 | VV | 29 | 426 | 0.09% | 0.066% |
| 248 | 14.952 | 14.944 | 14.964 | VV | 26 | 280 | 0.06% | 0.044% |
| 249 | 14.973 | 14.964 | 14.999 | VV | 27 | 452 | 0.10% | 0.070% |
| 250 | 15.006 | 14.999 | 15.015 | VV | 30 | 209 | 0.04% | 0.033% |
| 251 | 15.026 | 15.015 | 15.030 | VV | 27 | 201 | 0.04% | 0.031% |
| 252 | 15.050 | 15.030 | 15.070 | VV | 36 | 578 | 0.12% | 0.090% |
| 253 | 15.093 | 15.070 | 15.122 | VV | 39 | 747 | 0.16% | 0.116% |
| 254 | 15.128 | 15.122 | 15.156 | VV | 24 | 369 | 0.08% | 0.057% |
| 255 | 15.159 | 15.156 | 15.164 | VV | 21 | 93 | 0.02% | 0.014% |
| 256 | 15.180 | 15.164 | 15.197 | VV | 40 | 414 | 0.09% | 0.064% |
| 257 | 15.211 | 15.197 | 15.227 | VV | 20 | 328 | 0.07% | 0.051% |
| 258 | 15.236 | 15.227 | 15.245 | VV | 22 | 199 | 0.04% | 0.031% |
| 259 | 15.250 | 15.245 | 15.271 | VV | 30 | 299 | 0.06% | 0.047% |
| 260 | 15.302 | 15.271 | 15.316 | VV | 32 | 611 | 0.13% | 0.095% |
| 261 | 15.350 | 15.316 | 15.390 | VV | 48 | 1400 | 0.30% | 0.218% |
| 262 | 15.408 | 15.390 | 15.438 | VV | 52 | 1029 | 0.22% | 0.160% |
| 263 | 15.484 | 15.438 | 15.495 | VV | 33 | 922 | 0.20% | 0.144% |
| 264 | 15.498 | 15.495 | 15.515 | VV | 30 | 228 | 0.05% | 0.036% |
| 265 | 15.523 | 15.515 | 15.531 | VV | 34 | 259 | 0.06% | 0.040% |
| 266 | 15.546 | 15.531 | 15.570 | VV | 29 | 386 | 0.08% | 0.060% |
| 267 | 15.679 | 15.570 | 15.700 | PV | 30 | 1201 | 0.26% | 0.187% |
| 268 | 15.723 | 15.700 | 15.751 | VV | 39 | 441 | 0.09% | 0.069% |
| 269 | 15.774 | 15.751 | 15.791 | VV | 20 | 320 | 0.07% | 0.050% |
| 270 | 15.802 | 15.791 | 15.816 | VV | 17 | 183 | 0.04% | 0.028% |
| 271 | 15.841 | 15.816 | 15.869 | VV | 13 | 324 | 0.07% | 0.050% |
| 272 | 15.937 | 15.869 | 15.950 | VV | 40 | 1012 | 0.22% | 0.158% |
| 273 | 15.957 | 15.950 | 15.985 | VV | 28 | 412 | 0.09% | 0.064% |
| 274 | 16.001 | 15.985 | 16.026 | VV | 32 | 425 | 0.09% | 0.066% |
| 275 | 16.053 | 16.026 | 16.065 | VV | 40 | 490 | 0.11% | 0.076% |
| 276 | 16.074 | 16.065 | 16.109 | VV | 36 | 435 | 0.09% | 0.068% |
| 277 | 16.214 | 16.109 | 16.241 | PV | 76 | 3226 | 0.69% | 0.503% |
| 278 | 16.248 | 16.241 | 16.271 | VV | 47 | 530 | 0.11% | 0.083% |
| 279 | 16.281 | 16.271 | 16.291 | VV | 22 | 227 | 0.05% | 0.035% |
| 280 | 16.304 | 16.291 | 16.325 | VV | 27 | 350 | 0.08% | 0.055% |
| 281 | 16.333 | 16.325 | 16.347 | PV | 13 | 77 | 0.02% | 0.012% |
| 282 | 16.359 | 16.347 | 16.375 | PV | 21 | 168 | 0.04% | 0.026% |
| | | | Sum of corrected areas: | | | 641883 | | |

FB011525.M Sat Feb 01 01:04:00 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/29/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | JPP-46.1-012925 | SDG No.: | Q1232 |
| Lab Sample ID: | Q1232-05 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 93.8 Decanted: |
| Sample Wt/Vol: | 13.81 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031443.D | 1 | 02/03/25 13:20 | FB020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 17.0 | U | 3.00 | 17.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 14.8 | | 50 - 150 | 74% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031443.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 13:20
Operator : YP/AJ
Sample : Q1232-05
Misc : 13.81G/5.00 ML DI WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-46.1-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 5) s | AAA-TFT | 8.791 | 353949 | 14.839 ng/ml |
| | **Target Compounds** | | | |

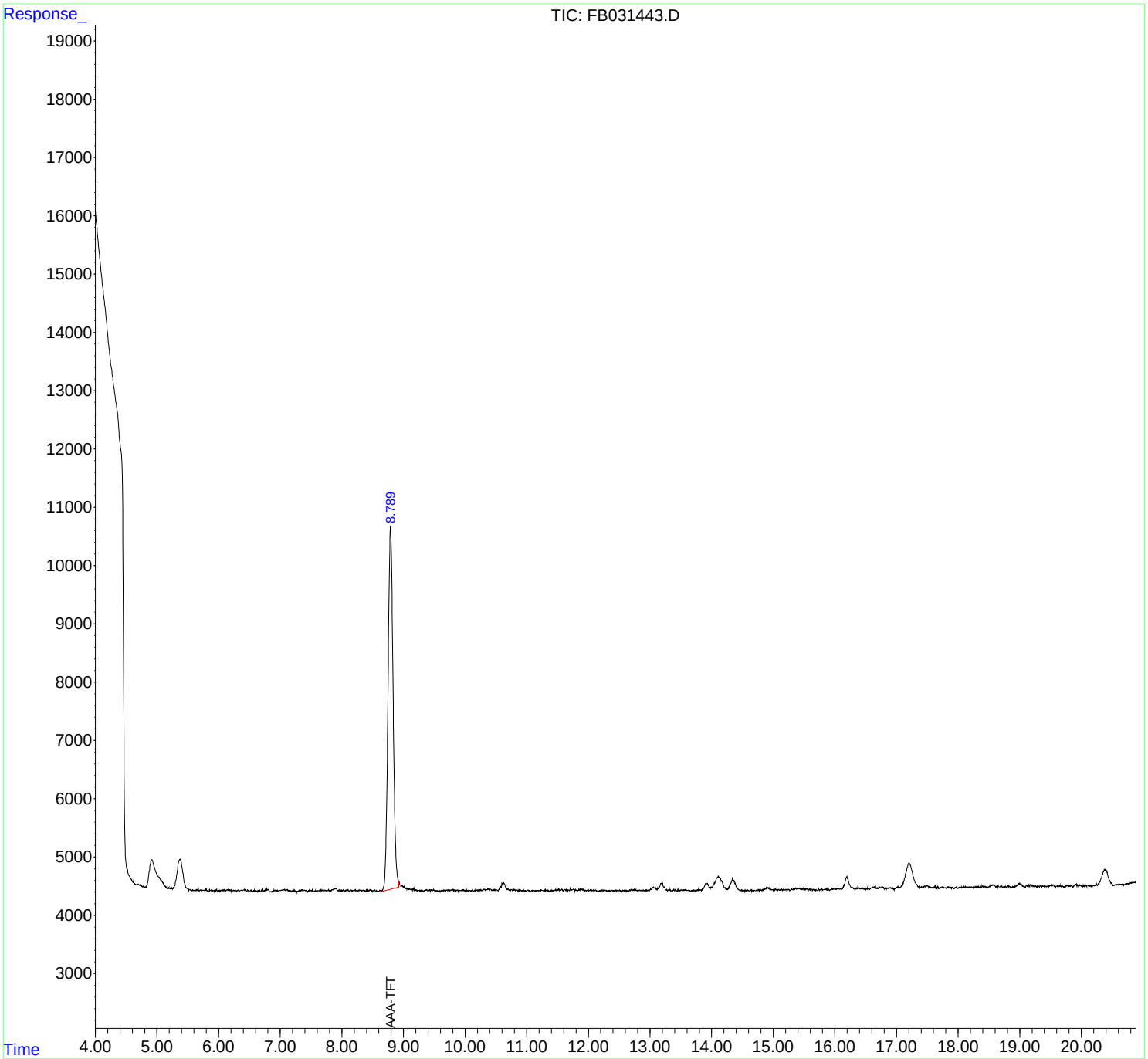
(f)=RT Delta > 1/2 Window (m)=manual int.

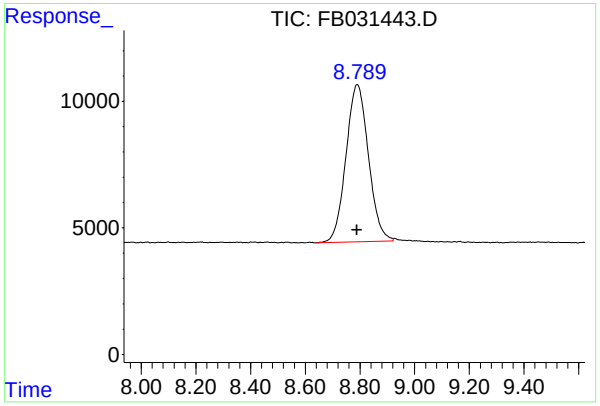
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031443.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 13:20
Operator : YP/AJ
Sample : Q1232-05
Misc : 13.81G/5.00 ML DI WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-46.1-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.791 min
Delta R.T.: 0.001 mi
Response: 353949
Conc: 14.84 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
JPP-46.1-012925

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031443.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 13:20
Sample : Q1232-05
Misc : 13.81G/5.00 ML DI WATER
ALS Vial : 5 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.622 | 4.587 | 4.715 | BB | -14 | -1242 | -0.34% | -0.220% |
| 2 | 4.786 | 4.738 | 4.798 | BV | 14 | -10 | -0.00% | -0.002% |
| 3 | 4.807 | 4.798 | 4.818 | PV | 3 | 14 | 0.00% | 0.002% |
| 4 | 5.195 | 5.184 | 5.211 | VV | 28 | 243 | 0.07% | 0.043% |
| 5 | 5.239 | 5.211 | 5.258 | VV | 31 | 417 | 0.11% | 0.074% |
| 6 | 5.529 | 5.512 | 5.561 | VV | 23 | 455 | 0.12% | 0.081% |
| 7 | 5.582 | 5.561 | 5.599 | PV | 22 | 232 | 0.06% | 0.041% |
| 8 | 5.623 | 5.599 | 5.633 | VV | 24 | 241 | 0.07% | 0.043% |
| 9 | 5.650 | 5.633 | 5.667 | VV | 31 | 325 | 0.09% | 0.058% |
| 10 | 5.701 | 5.667 | 5.745 | VV | 22 | 767 | 0.21% | 0.136% |
| 11 | 5.753 | 5.745 | 5.764 | VV | 24 | 215 | 0.06% | 0.038% |
| 12 | 5.799 | 5.764 | 5.815 | VV | 41 | 747 | 0.20% | 0.132% |
| 13 | 5.828 | 5.815 | 5.839 | VV | 21 | 200 | 0.05% | 0.035% |
| 14 | 5.854 | 5.839 | 5.875 | PV | 36 | 397 | 0.11% | 0.070% |
| 15 | 5.888 | 5.875 | 5.930 | VV | 37 | 740 | 0.20% | 0.131% |
| 16 | 5.945 | 5.930 | 5.955 | VV | 37 | 351 | 0.10% | 0.062% |
| 17 | 5.968 | 5.955 | 5.989 | VV | 41 | 424 | 0.12% | 0.075% |
| 18 | 6.009 | 5.989 | 6.018 | PV | 20 | 240 | 0.07% | 0.043% |
| 19 | 6.025 | 6.018 | 6.036 | VV | 20 | 176 | 0.05% | 0.031% |
| 20 | 6.071 | 6.036 | 6.095 | VV | 30 | 839 | 0.23% | 0.149% |
| 21 | 6.104 | 6.095 | 6.114 | VV | 32 | 267 | 0.07% | 0.047% |
| 22 | 6.157 | 6.114 | 6.167 | VV | 39 | 877 | 0.24% | 0.156% |
| 23 | 6.177 | 6.167 | 6.185 | VV | 36 | 256 | 0.07% | 0.045% |
| 24 | 6.197 | 6.185 | 6.206 | VV | 31 | 318 | 0.09% | 0.056% |
| 25 | 6.215 | 6.206 | 6.265 | VV | 40 | 775 | 0.21% | 0.137% |
| 26 | 6.278 | 6.265 | 6.292 | VV | 27 | 320 | 0.09% | 0.057% |
| 27 | 6.320 | 6.292 | 6.340 | VV | 33 | 627 | 0.17% | 0.111% |
| 28 | 6.364 | 6.340 | 6.384 | VV | 29 | 592 | 0.16% | 0.105% |
| 29 | 6.430 | 6.384 | 6.458 | VV | 41 | 1231 | 0.34% | 0.218% |
| 30 | 6.469 | 6.458 | 6.491 | VV | 34 | 409 | 0.11% | 0.073% |
| 31 | 6.521 | 6.491 | 6.541 | VV | 31 | 575 | 0.16% | 0.102% |
| 32 | 6.574 | 6.541 | 6.591 | VV | 25 | 485 | 0.13% | 0.086% |
| 33 | 6.602 | 6.591 | 6.619 | VV | 25 | 269 | 0.07% | 0.048% |
| 34 | 6.627 | 6.619 | 6.636 | VV | 13 | 107 | 0.03% | 0.019% |
| 35 | 6.643 | 6.636 | 6.664 | VV | 22 | 244 | 0.07% | 0.043% |
| 36 | 6.672 | 6.664 | 6.687 | VV | 24 | 149 | 0.04% | 0.026% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 6.701 | 6.687 | 6.707 | VV | 35 | 280 | 0.08% | 0.050% |
| 38 | 6.715 | 6.707 | 6.728 | VV | 49 | 316 | 0.09% | 0.056% |
| 39 | 6.743 | 6.728 | 6.752 | VV | 25 | 303 | 0.08% | 0.054% |
| 40 | 6.778 | 6.752 | 6.834 | VV | 51 | 1708 | 0.47% | 0.303% |
| 41 | 6.901 | 6.860 | 6.916 | PV | 34 | 540 | 0.15% | 0.096% |
| 42 | 6.927 | 6.916 | 6.944 | VV | 29 | 369 | 0.10% | 0.066% |
| 43 | 6.970 | 6.944 | 6.981 | VV | 23 | 436 | 0.12% | 0.077% |
| 44 | 7.045 | 6.981 | 7.064 | VV | 46 | 1593 | 0.43% | 0.283% |
| 45 | 7.072 | 7.064 | 7.084 | VV | 49 | 457 | 0.12% | 0.081% |
| 46 | 7.098 | 7.084 | 7.139 | VV | 48 | 1105 | 0.30% | 0.196% |
| 47 | 7.157 | 7.139 | 7.184 | VV | 37 | 611 | 0.17% | 0.108% |
| 48 | 7.193 | 7.184 | 7.198 | VV | 20 | 134 | 0.04% | 0.024% |
| 49 | 7.209 | 7.198 | 7.219 | VV | 41 | 337 | 0.09% | 0.060% |
| 50 | 7.236 | 7.219 | 7.248 | VV | 35 | 365 | 0.10% | 0.065% |
| 51 | 7.259 | 7.248 | 7.274 | VV | 27 | 229 | 0.06% | 0.041% |
| 52 | 7.295 | 7.274 | 7.304 | PV | 22 | 253 | 0.07% | 0.045% |
| 53 | 7.316 | 7.304 | 7.334 | VV | 33 | 393 | 0.11% | 0.070% |
| 54 | 7.360 | 7.334 | 7.372 | VV | 42 | 717 | 0.20% | 0.127% |
| 55 | 7.395 | 7.372 | 7.412 | VV | 33 | 686 | 0.19% | 0.122% |
| 56 | 7.428 | 7.412 | 7.444 | VV | 31 | 446 | 0.12% | 0.079% |
| 57 | 7.472 | 7.444 | 7.490 | VV | 34 | 583 | 0.16% | 0.103% |
| 58 | 7.496 | 7.490 | 7.505 | VV | 26 | 206 | 0.06% | 0.037% |
| 59 | 7.525 | 7.505 | 7.547 | VV | 45 | 527 | 0.14% | 0.093% |
| 60 | 7.557 | 7.547 | 7.563 | VV | 21 | 141 | 0.04% | 0.025% |
| 61 | 7.569 | 7.563 | 7.577 | VV | 22 | 131 | 0.04% | 0.023% |
| 62 | 7.588 | 7.577 | 7.598 | VV | 24 | 205 | 0.06% | 0.036% |
| 63 | 7.619 | 7.598 | 7.632 | VV | 25 | 381 | 0.10% | 0.067% |
| 64 | 7.653 | 7.632 | 7.663 | VV | 45 | 544 | 0.15% | 0.096% |
| 65 | 7.696 | 7.663 | 7.712 | VV | 44 | 864 | 0.24% | 0.153% |
| 66 | 7.732 | 7.712 | 7.746 | VV | 30 | 497 | 0.14% | 0.088% |
| 67 | 7.782 | 7.746 | 7.801 | VV | 33 | 854 | 0.23% | 0.151% |
| 68 | 7.808 | 7.801 | 7.826 | VV | 27 | 325 | 0.09% | 0.058% |
| 69 | 7.871 | 7.826 | 7.881 | VV | 60 | 1378 | 0.38% | 0.244% |
| 70 | 7.895 | 7.881 | 7.966 | VV | 63 | 2000 | 0.55% | 0.355% |
| 71 | 7.971 | 7.966 | 7.983 | VV | 30 | 236 | 0.06% | 0.042% |
| 72 | 7.999 | 7.983 | 8.007 | VV | 35 | 295 | 0.08% | 0.052% |
| 73 | 8.023 | 8.007 | 8.050 | VV | 38 | 537 | 0.15% | 0.095% |
| 74 | 8.064 | 8.050 | 8.086 | VV | 32 | 454 | 0.12% | 0.080% |
| 75 | 8.099 | 8.086 | 8.128 | VV | 44 | 584 | 0.16% | 0.104% |
| 76 | 8.153 | 8.128 | 8.169 | VV | 32 | 587 | 0.16% | 0.104% |
| 77 | 8.219 | 8.169 | 8.244 | VV | 40 | 1078 | 0.29% | 0.191% |
| 78 | 8.291 | 8.244 | 8.314 | VV | 34 | 921 | 0.25% | 0.163% |
| 79 | 8.353 | 8.314 | 8.373 | VV | 32 | 803 | 0.22% | 0.142% |
| 80 | 8.383 | 8.373 | 8.395 | VV | 23 | 223 | 0.06% | 0.040% |
| 81 | 8.409 | 8.395 | 8.445 | VV | 35 | 746 | 0.20% | 0.132% |
| 82 | 8.462 | 8.445 | 8.501 | VV | 37 | 709 | 0.19% | 0.126% |
| 83 | 8.514 | 8.501 | 8.522 | VV | 23 | 205 | 0.06% | 0.036% |
| 84 | 8.537 | 8.522 | 8.551 | VV | 34 | 386 | 0.11% | 0.068% |
| 85 | 8.560 | 8.551 | 8.576 | VV | 15 | 153 | 0.04% | 0.027% |
| 86 | 8.586 | 8.576 | 8.601 | VV | 15 | 162 | 0.04% | 0.029% |
| 87 | 8.616 | 8.601 | 8.635 | VV | 25 | 325 | 0.09% | 0.058% |
| 88 | 8.791 | 8.635 | 8.996 | PV | 6258 | 366278 | 100.00% | 64.952% |
| 89 | 9.007 | 8.996 | 9.038 | VV | 91 | 1897 | 0.52% | 0.336% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 9.049 | 9.038 | 9.058 | VV | 62 | 664 | 0.18% | 0.118% |
| 91 | 9.063 | 9.058 | 9.091 | VV | 52 | 875 | 0.24% | 0.155% |
| 92 | 9.098 | 9.091 | 9.110 | VV | 49 | 504 | 0.14% | 0.089% |
| 93 | 9.122 | 9.110 | 9.137 | VV | 46 | 628 | 0.17% | 0.111% |
| 94 | 9.146 | 9.137 | 9.154 | VV | 53 | 412 | 0.11% | 0.073% |
| 95 | 9.167 | 9.154 | 9.185 | VV | 53 | 651 | 0.18% | 0.115% |
| 96 | 9.198 | 9.185 | 9.228 | VV | 33 | 618 | 0.17% | 0.110% |
| 97 | 9.268 | 9.228 | 9.278 | VV | 24 | 487 | 0.13% | 0.086% |
| 98 | 9.301 | 9.278 | 9.327 | VV | 28 | 403 | 0.11% | 0.071% |
| 99 | 9.336 | 9.327 | 9.343 | PV | 17 | 120 | 0.03% | 0.021% |
| 100 | 9.379 | 9.343 | 9.390 | VV | 29 | 600 | 0.16% | 0.106% |
| 101 | 9.400 | 9.390 | 9.414 | VV | 27 | 316 | 0.09% | 0.056% |
| 102 | 9.422 | 9.414 | 9.442 | VV | 29 | 372 | 0.10% | 0.066% |
| 103 | 9.452 | 9.442 | 9.478 | VV | 32 | 509 | 0.14% | 0.090% |
| 104 | 9.489 | 9.478 | 9.512 | VV | 27 | 376 | 0.10% | 0.067% |
| 105 | 9.526 | 9.512 | 9.584 | VB | 17 | 320 | 0.09% | 0.057% |
| 106 | 9.628 | 9.586 | 9.656 | BV | 17 | 347 | 0.09% | 0.061% |
| 107 | 9.668 | 9.656 | 9.681 | VV | 25 | 215 | 0.06% | 0.038% |
| 108 | 9.706 | 9.681 | 9.714 | VV | 24 | 318 | 0.09% | 0.056% |
| 109 | 9.722 | 9.714 | 9.745 | VV | 28 | 294 | 0.08% | 0.052% |
| 110 | 9.753 | 9.745 | 9.762 | VV | 22 | 182 | 0.05% | 0.032% |
| 111 | 9.775 | 9.762 | 9.783 | VV | 26 | 262 | 0.07% | 0.046% |
| 112 | 9.806 | 9.783 | 9.823 | VV | 38 | 561 | 0.15% | 0.099% |
| 113 | 9.833 | 9.823 | 9.847 | VV | 30 | 295 | 0.08% | 0.052% |
| 114 | 9.860 | 9.847 | 9.870 | VV | 25 | 201 | 0.05% | 0.036% |
| 115 | 9.879 | 9.870 | 9.894 | VV | 28 | 265 | 0.07% | 0.047% |
| 116 | 9.903 | 9.894 | 9.937 | VV | 20 | 399 | 0.11% | 0.071% |
| 117 | 9.943 | 9.937 | 9.948 | VV | 22 | 118 | 0.03% | 0.021% |
| 118 | 9.960 | 9.948 | 9.970 | VV | 24 | 286 | 0.08% | 0.051% |
| 119 | 9.977 | 9.970 | 10.001 | VV | 31 | 349 | 0.10% | 0.062% |
| 120 | 10.019 | 10.001 | 10.031 | VV | 31 | 331 | 0.09% | 0.059% |
| 121 | 10.051 | 10.031 | 10.059 | VV | 17 | 197 | 0.05% | 0.035% |
| 122 | 10.076 | 10.059 | 10.110 | VV | 17 | 378 | 0.10% | 0.067% |
| 123 | 10.124 | 10.110 | 10.141 | VV | 26 | 254 | 0.07% | 0.045% |
| 124 | 10.195 | 10.141 | 10.212 | PV | 27 | 753 | 0.21% | 0.133% |
| 125 | 10.217 | 10.212 | 10.229 | VV | 27 | 192 | 0.05% | 0.034% |
| 126 | 10.250 | 10.229 | 10.262 | VV | 36 | 469 | 0.13% | 0.083% |
| 127 | 10.270 | 10.262 | 10.284 | VV | 27 | 295 | 0.08% | 0.052% |
| 128 | 10.296 | 10.284 | 10.307 | VV | 44 | 447 | 0.12% | 0.079% |
| 129 | 10.317 | 10.307 | 10.327 | VV | 41 | 421 | 0.12% | 0.075% |
| 130 | 10.335 | 10.327 | 10.343 | VV | 37 | 290 | 0.08% | 0.052% |
| 131 | 10.370 | 10.343 | 10.399 | VV | 55 | 1237 | 0.34% | 0.219% |
| 132 | 10.409 | 10.399 | 10.429 | VV | 44 | 685 | 0.19% | 0.121% |
| 133 | 10.438 | 10.429 | 10.449 | VV | 31 | 307 | 0.08% | 0.054% |
| 134 | 10.483 | 10.449 | 10.494 | VV | 41 | 734 | 0.20% | 0.130% |
| 135 | 10.510 | 10.494 | 10.536 | VV | 34 | 612 | 0.17% | 0.108% |
| 136 | 10.615 | 10.536 | 10.713 | VV | 153 | 8402 | 2.29% | 1.490% |
| 137 | 10.721 | 10.713 | 10.738 | VV | 29 | 369 | 0.10% | 0.065% |
| 138 | 10.748 | 10.738 | 10.766 | VV | 38 | 510 | 0.14% | 0.090% |
| 139 | 10.779 | 10.766 | 10.791 | VV | 48 | 526 | 0.14% | 0.093% |
| 140 | 10.804 | 10.791 | 10.827 | VV | 36 | 612 | 0.17% | 0.108% |
| 141 | 10.838 | 10.827 | 10.878 | VV | 32 | 699 | 0.19% | 0.124% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.887 | 10.878 | 10.934 | VV | 36 | 685 | 0.19% | 0.122% |
| 143 | 10.942 | 10.934 | 10.972 | VV | 31 | 436 | 0.12% | 0.077% |
| 144 | 10.981 | 10.972 | 10.994 | VV | 20 | 188 | 0.05% | 0.033% |
| 145 | 11.006 | 10.994 | 11.067 | VV | 31 | 731 | 0.20% | 0.130% |
| 146 | 11.083 | 11.067 | 11.092 | VV | 21 | 255 | 0.07% | 0.045% |
| 147 | 11.109 | 11.092 | 11.137 | VV | 22 | 484 | 0.13% | 0.086% |
| 148 | 11.149 | 11.137 | 11.204 | VV | 21 | 742 | 0.20% | 0.132% |
| 149 | 11.225 | 11.204 | 11.285 | VV | 29 | 976 | 0.27% | 0.173% |
| 150 | 11.305 | 11.285 | 11.315 | PV | 35 | 391 | 0.11% | 0.069% |
| 151 | 11.326 | 11.315 | 11.335 | VV | 27 | 254 | 0.07% | 0.045% |
| 152 | 11.345 | 11.335 | 11.364 | VV | 30 | 315 | 0.09% | 0.056% |
| 153 | 11.393 | 11.364 | 11.404 | VV | 25 | 424 | 0.12% | 0.075% |
| 154 | 11.412 | 11.404 | 11.435 | VV | 28 | 364 | 0.10% | 0.064% |
| 155 | 11.445 | 11.435 | 11.453 | VV | 29 | 258 | 0.07% | 0.046% |
| 156 | 11.467 | 11.453 | 11.475 | VV | 37 | 355 | 0.10% | 0.063% |
| 157 | 11.518 | 11.475 | 11.527 | VV | 48 | 1013 | 0.28% | 0.180% |
| 158 | 11.532 | 11.527 | 11.543 | VV | 38 | 290 | 0.08% | 0.051% |
| 159 | 11.570 | 11.543 | 11.594 | VV | 41 | 868 | 0.24% | 0.154% |
| 160 | 11.612 | 11.594 | 11.671 | VV | 44 | 1476 | 0.40% | 0.262% |
| 161 | 11.679 | 11.671 | 11.695 | VV | 32 | 417 | 0.11% | 0.074% |
| 162 | 11.708 | 11.695 | 11.721 | VV | 53 | 515 | 0.14% | 0.091% |
| 163 | 11.762 | 11.721 | 11.783 | VV | 49 | 1324 | 0.36% | 0.235% |
| 164 | 11.792 | 11.783 | 11.830 | VV | 38 | 752 | 0.21% | 0.133% |
| 165 | 11.873 | 11.830 | 11.884 | VV | 54 | 1155 | 0.32% | 0.205% |
| 166 | 11.893 | 11.884 | 11.914 | VV | 44 | 656 | 0.18% | 0.116% |
| 167 | 11.924 | 11.914 | 11.946 | VV | 44 | 619 | 0.17% | 0.110% |
| 168 | 11.955 | 11.946 | 11.969 | VV | 25 | 221 | 0.06% | 0.039% |
| 169 | 11.979 | 11.969 | 11.988 | VV | 26 | 241 | 0.07% | 0.043% |
| 170 | 11.999 | 11.988 | 12.008 | VV | 22 | 231 | 0.06% | 0.041% |
| 171 | 12.034 | 12.008 | 12.071 | VV | 29 | 885 | 0.24% | 0.157% |
| 172 | 12.078 | 12.071 | 12.086 | VV | 30 | 199 | 0.05% | 0.035% |
| 173 | 12.095 | 12.086 | 12.108 | VV | 32 | 346 | 0.09% | 0.061% |
| 174 | 12.122 | 12.108 | 12.148 | VV | 22 | 424 | 0.12% | 0.075% |
| 175 | 12.200 | 12.148 | 12.210 | VV | 24 | 538 | 0.15% | 0.095% |
| 176 | 12.226 | 12.210 | 12.245 | VV | 35 | 433 | 0.12% | 0.077% |
| 177 | 12.264 | 12.245 | 12.273 | VV | 27 | 343 | 0.09% | 0.061% |
| 178 | 12.280 | 12.273 | 12.304 | VV | 24 | 348 | 0.09% | 0.062% |
| 179 | 12.313 | 12.304 | 12.321 | VV | 20 | 127 | 0.03% | 0.023% |
| 180 | 12.340 | 12.321 | 12.348 | VV | 30 | 271 | 0.07% | 0.048% |
| 181 | 12.363 | 12.348 | 12.372 | VV | 13 | 166 | 0.05% | 0.029% |
| 182 | 12.385 | 12.372 | 12.395 | VV | 24 | 280 | 0.08% | 0.050% |
| 183 | 12.414 | 12.395 | 12.423 | VV | 22 | 318 | 0.09% | 0.056% |
| 184 | 12.449 | 12.423 | 12.458 | VV | 29 | 374 | 0.10% | 0.066% |
| 185 | 12.468 | 12.458 | 12.482 | VV | 27 | 252 | 0.07% | 0.045% |
| 186 | 12.508 | 12.482 | 12.548 | VV | 28 | 686 | 0.19% | 0.122% |
| 187 | 12.569 | 12.548 | 12.579 | VV | 25 | 326 | 0.09% | 0.058% |
| 188 | 12.589 | 12.579 | 12.597 | VV | 30 | 205 | 0.06% | 0.036% |
| 189 | 12.607 | 12.597 | 12.617 | VV | 25 | 189 | 0.05% | 0.034% |
| 190 | 12.631 | 12.617 | 12.651 | VV | 18 | 263 | 0.07% | 0.047% |
| 191 | 12.669 | 12.651 | 12.683 | VV | 28 | 390 | 0.11% | 0.069% |
| 192 | 12.700 | 12.683 | 12.716 | VV | 41 | 570 | 0.16% | 0.101% |
| 193 | 12.725 | 12.716 | 12.733 | VV | 34 | 273 | 0.07% | 0.048% |
| 194 | 12.741 | 12.733 | 12.763 | VV | 36 | 495 | 0.14% | 0.088% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 12.771 | 12.763 | 12.793 | VV | 31 | 400 | 0.11% | 0.071% |
| 196 | 12.802 | 12.793 | 12.815 | VV | 27 | 274 | 0.07% | 0.049% |
| 197 | 12.828 | 12.815 | 12.837 | VV | 29 | 308 | 0.08% | 0.055% |
| 198 | 12.849 | 12.837 | 12.879 | VV | 27 | 492 | 0.13% | 0.087% |
| 199 | 12.896 | 12.879 | 12.923 | VV | 30 | 490 | 0.13% | 0.087% |
| 200 | 12.948 | 12.923 | 12.982 | VV | 32 | 805 | 0.22% | 0.143% |
| 201 | 13.011 | 12.982 | 13.018 | VV | 45 | 665 | 0.18% | 0.118% |
| 202 | 13.059 | 13.018 | 13.111 | VV | 81 | 3241 | 0.88% | 0.575% |
| 203 | 13.125 | 13.111 | 13.139 | VV | 66 | 824 | 0.22% | 0.146% |
| 204 | 13.180 | 13.139 | 13.188 | VV | 144 | 3038 | 0.83% | 0.539% |
| 205 | 13.193 | 13.188 | 13.288 | VV | 141 | 4240 | 1.16% | 0.752% |
| 206 | 13.327 | 13.288 | 13.339 | VV | 36 | 748 | 0.20% | 0.133% |
| 207 | 13.388 | 13.339 | 13.398 | VV | 38 | 717 | 0.20% | 0.127% |
| 208 | 13.409 | 13.398 | 13.427 | VV | 39 | 335 | 0.09% | 0.059% |
| 209 | 13.447 | 13.427 | 13.454 | PV | 25 | 247 | 0.07% | 0.044% |
| 210 | 13.463 | 13.454 | 13.479 | VV | 41 | 372 | 0.10% | 0.066% |
| 211 | 13.503 | 13.479 | 13.510 | VV | 28 | 410 | 0.11% | 0.073% |
| 212 | 13.519 | 13.510 | 13.544 | VV | 35 | 536 | 0.15% | 0.095% |
| 213 | 13.566 | 13.544 | 13.582 | VV | 32 | 586 | 0.16% | 0.104% |
| 214 | 13.591 | 13.582 | 13.600 | VV | 30 | 255 | 0.07% | 0.045% |
| 215 | 13.621 | 13.600 | 13.630 | VV | 26 | 381 | 0.10% | 0.068% |
| 216 | 13.638 | 13.630 | 13.655 | VV | 22 | 255 | 0.07% | 0.045% |
| 217 | 13.677 | 13.655 | 13.687 | VV | 24 | 253 | 0.07% | 0.045% |
| 218 | 13.710 | 13.687 | 13.732 | VV | 27 | 477 | 0.13% | 0.085% |
| 219 | 13.785 | 13.732 | 13.797 | VV | 31 | 836 | 0.23% | 0.148% |
| 220 | 13.821 | 13.797 | 13.835 | VV | 28 | 562 | 0.15% | 0.100% |
| 221 | 13.851 | 13.835 | 13.859 | VV | 47 | 466 | 0.13% | 0.083% |
| 222 | 13.913 | 13.859 | 13.960 | VV | 142 | 6313 | 1.72% | 1.119% |
| 223 | 13.968 | 13.960 | 13.979 | VV | 74 | 852 | 0.23% | 0.151% |
| 224 | 13.989 | 13.979 | 14.001 | VV | 79 | 907 | 0.25% | 0.161% |
| 225 | 14.110 | 14.001 | 14.265 | VV | 263 | 22522 | 6.15% | 3.994% |
| 226 | 14.339 | 14.265 | 14.457 | VV | 216 | 12534 | 3.42% | 2.223% |
| 227 | 14.467 | 14.457 | 14.482 | VV | 22 | 255 | 0.07% | 0.045% |
| 228 | 14.487 | 14.482 | 14.497 | VV | 28 | 146 | 0.04% | 0.026% |
| 229 | 14.513 | 14.497 | 14.538 | VV | 21 | 362 | 0.10% | 0.064% |
| 230 | 14.581 | 14.538 | 14.618 | VV | 23 | 561 | 0.15% | 0.100% |
| 231 | 14.644 | 14.618 | 14.655 | PV | 32 | 310 | 0.08% | 0.055% |
| 232 | 14.664 | 14.655 | 14.694 | VV | 19 | 296 | 0.08% | 0.052% |
| 233 | 14.704 | 14.694 | 14.716 | VV | 14 | 147 | 0.04% | 0.026% |
| 234 | 14.732 | 14.716 | 14.740 | VV | 17 | 163 | 0.04% | 0.029% |
| 235 | 14.771 | 14.740 | 14.779 | VV | 30 | 378 | 0.10% | 0.067% |
| 236 | 14.789 | 14.779 | 14.810 | VV | 31 | 380 | 0.10% | 0.067% |
| 237 | 14.821 | 14.810 | 14.842 | VV | 23 | 395 | 0.11% | 0.070% |
| 238 | 14.856 | 14.842 | 14.865 | VV | 39 | 434 | 0.12% | 0.077% |
| 239 | 14.908 | 14.865 | 14.917 | VV | 61 | 1504 | 0.41% | 0.267% |
| 240 | 14.922 | 14.917 | 14.947 | VV | 56 | 801 | 0.22% | 0.142% |
| 241 | 14.963 | 14.947 | 15.016 | VV | 34 | 956 | 0.26% | 0.169% |
| 242 | 15.034 | 15.016 | 15.078 | VV | 32 | 922 | 0.25% | 0.164% |
| 243 | 15.089 | 15.078 | 15.104 | VV | 27 | 327 | 0.09% | 0.058% |
| 244 | 15.134 | 15.104 | 15.147 | VV | 37 | 579 | 0.16% | 0.103% |
| 245 | 15.167 | 15.147 | 15.178 | VV | 26 | 360 | 0.10% | 0.064% |
| 246 | 15.211 | 15.178 | 15.229 | VV | 28 | 629 | 0.17% | 0.112% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 15.249 | 15.229 | 15.270 | VV | 30 | 512 | 0.14% | 0.091% |
| 248 | 15.301 | 15.270 | 15.314 | VV | 36 | 588 | 0.16% | 0.104% |
| 249 | 15.340 | 15.314 | 15.348 | VV | 33 | 562 | 0.15% | 0.100% |
| 250 | 15.370 | 15.348 | 15.379 | VV | 51 | 726 | 0.20% | 0.129% |
| 251 | 15.406 | 15.379 | 15.425 | VV | 50 | 1190 | 0.32% | 0.211% |
| 252 | 15.433 | 15.425 | 15.451 | VV | 52 | 521 | 0.14% | 0.092% |
| 253 | 15.495 | 15.451 | 15.529 | VV | 52 | 1516 | 0.41% | 0.269% |
| 254 | 15.550 | 15.529 | 15.564 | VV | 40 | 667 | 0.18% | 0.118% |
| 255 | 15.590 | 15.564 | 15.599 | VV | 30 | 448 | 0.12% | 0.079% |
| 256 | 15.616 | 15.599 | 15.636 | VV | 37 | 545 | 0.15% | 0.097% |
| 257 | 15.648 | 15.636 | 15.686 | VV | 26 | 489 | 0.13% | 0.087% |
| 258 | 15.694 | 15.686 | 15.712 | PV | 21 | 188 | 0.05% | 0.033% |
| 259 | 15.739 | 15.712 | 15.753 | VV | 25 | 322 | 0.09% | 0.057% |
| 260 | 15.766 | 15.753 | 15.782 | VV | 21 | 266 | 0.07% | 0.047% |
| 261 | 15.791 | 15.782 | 15.813 | VV | 27 | 319 | 0.09% | 0.057% |
| 262 | 15.835 | 15.813 | 15.890 | VV | 27 | 770 | 0.21% | 0.137% |
| 263 | 15.897 | 15.890 | 15.912 | VV | 27 | 184 | 0.05% | 0.033% |
| 264 | 15.944 | 15.912 | 15.967 | PV | 31 | 535 | 0.15% | 0.095% |
| 265 | 15.985 | 15.967 | 16.002 | VV | 25 | 416 | 0.11% | 0.074% |
| 266 | 16.040 | 16.002 | 16.079 | VV | 29 | 950 | 0.26% | 0.168% |
| 267 | 16.089 | 16.079 | 16.105 | VV | 22 | 263 | 0.07% | 0.047% |
| 268 | 16.194 | 16.105 | 16.278 | VV | 221 | 10251 | 2.80% | 1.818% |
| 269 | 16.286 | 16.278 | 16.315 | VV | 25 | 366 | 0.10% | 0.065% |
| 270 | 16.357 | 16.315 | 16.380 | PV | 16 | 320 | 0.09% | 0.057% |

Sum of corrected areas: 563922

FB011525.M Tue Feb 04 00:49:40 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/29/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | JPP-42.1-012925 | SDG No.: | Q1232 |
| Lab Sample ID: | Q1232-09 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 88.6 Decanted: |
| Sample Wt/Vol: | 10.94 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031444.D | 1 | 02/03/25 13:47 | FB020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 23.0 | U | 4.00 | 23.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 15.4 | | 50 - 150 | 77% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031444.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 13:47
Operator : YP/AJ
Sample : Q1232-09
Misc : 10.94G/5.00 ML DI WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-42.1-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 5) s | AAA-TFT | 8.792 | 366282 | 15.356 ng/ml |
| | **Target Compounds** | | | |

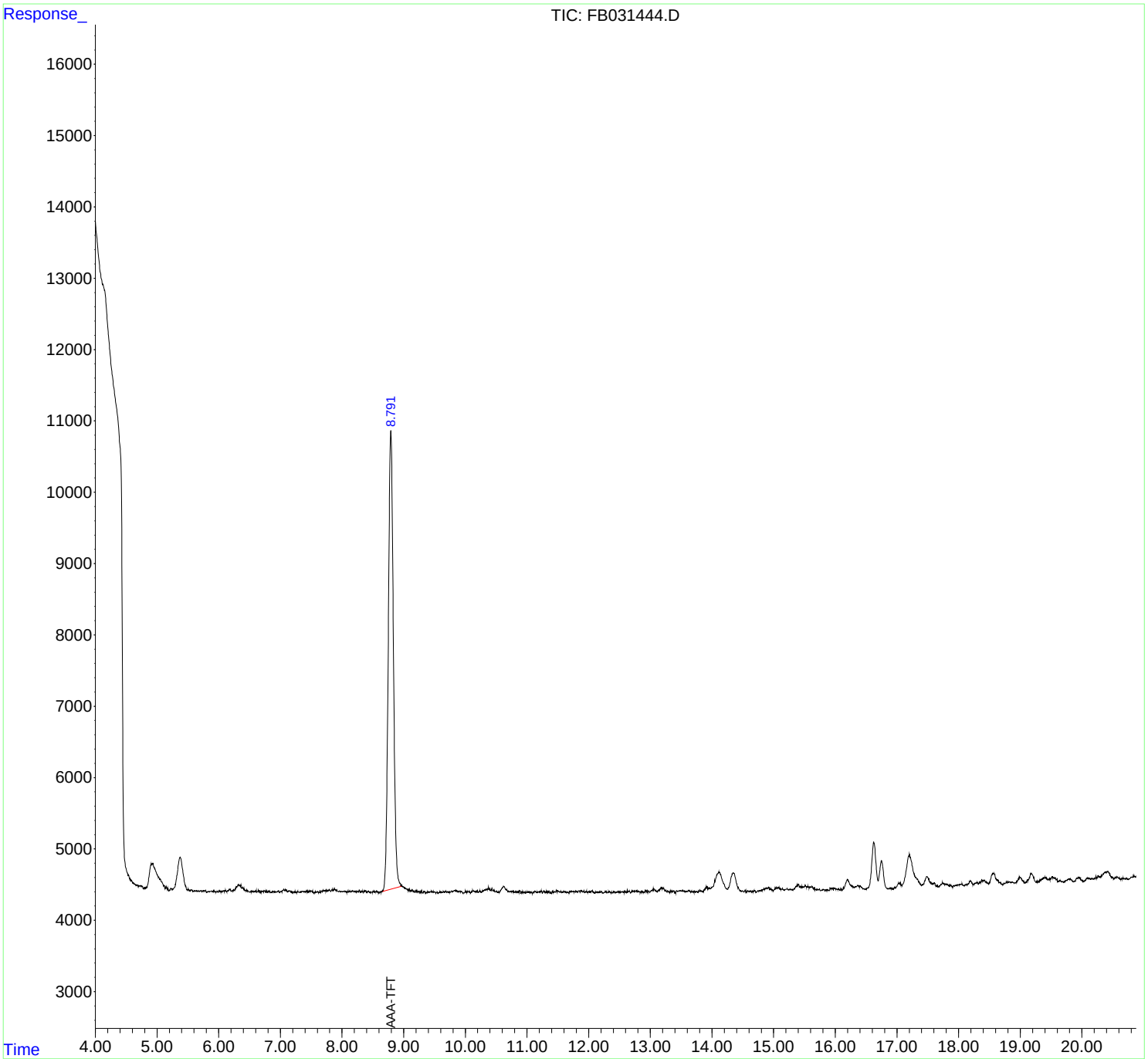
(f)=RT Delta > 1/2 Window (m)=manual int.

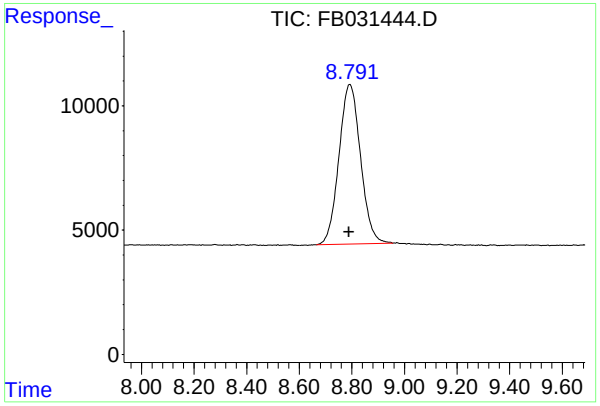
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031444.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 13:47
Operator : YP/AJ
Sample : Q1232-09
Misc : 10.94G/5.00 ML DI WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-42.1-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.792 min
Delta R.T.: 0.003 mi
Response: 366282
Conc: 15.36 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
JPP-42.1-012925

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031444.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 13:47
Sample : Q1232-09
Misc : 10.94G/5.00 ML DI WATER
ALS Vial : 6 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.804 | 4.749 | 4.812 | BV | 16 | -94 | -0.02% | -0.015% |
| 2 | 5.054 | 5.047 | 5.131 | VV | 155 | 5027 | 1.33% | 0.826% |
| 3 | 5.139 | 5.131 | 5.172 | VV | 47 | 889 | 0.23% | 0.146% |
| 4 | 5.180 | 5.172 | 5.193 | VV | 32 | 209 | 0.06% | 0.034% |
| 5 | 5.226 | 5.193 | 5.244 | PV | 39 | 643 | 0.17% | 0.106% |
| 6 | 5.253 | 5.244 | 5.261 | VV | 28 | 272 | 0.07% | 0.045% |
| 7 | 5.510 | 5.494 | 5.536 | VV | 37 | 612 | 0.16% | 0.101% |
| 8 | 5.560 | 5.536 | 5.589 | VV | 32 | 543 | 0.14% | 0.089% |
| 9 | 5.617 | 5.589 | 5.629 | VV | 19 | 306 | 0.08% | 0.050% |
| 10 | 5.644 | 5.629 | 5.654 | VV | 23 | 225 | 0.06% | 0.037% |
| 11 | 5.659 | 5.654 | 5.667 | VV | 13 | 77 | 0.02% | 0.013% |
| 12 | 5.678 | 5.667 | 5.688 | VV | 21 | 183 | 0.05% | 0.030% |
| 13 | 5.714 | 5.688 | 5.729 | VV | 27 | 388 | 0.10% | 0.064% |
| 14 | 5.741 | 5.729 | 5.754 | VV | 23 | 255 | 0.07% | 0.042% |
| 15 | 5.764 | 5.754 | 5.775 | VV | 30 | 275 | 0.07% | 0.045% |
| 16 | 5.789 | 5.775 | 5.803 | VV | 30 | 267 | 0.07% | 0.044% |
| 17 | 5.887 | 5.803 | 5.899 | PV | 21 | 734 | 0.19% | 0.121% |
| 18 | 5.925 | 5.899 | 5.940 | VV | 27 | 386 | 0.10% | 0.063% |
| 19 | 5.948 | 5.940 | 5.955 | VV | 12 | 85 | 0.02% | 0.014% |
| 20 | 5.960 | 5.955 | 5.966 | VV | 13 | 63 | 0.02% | 0.010% |
| 21 | 6.006 | 5.966 | 6.065 | VV | 23 | 848 | 0.22% | 0.139% |
| 22 | 6.080 | 6.065 | 6.091 | VV | 26 | 304 | 0.08% | 0.050% |
| 23 | 6.105 | 6.091 | 6.131 | VV | 29 | 523 | 0.14% | 0.086% |
| 24 | 6.175 | 6.131 | 6.207 | VV | 50 | 1481 | 0.39% | 0.243% |
| 25 | 6.218 | 6.207 | 6.227 | VV | 27 | 305 | 0.08% | 0.050% |
| 26 | 6.244 | 6.227 | 6.253 | VV | 44 | 517 | 0.14% | 0.085% |
| 27 | 6.322 | 6.253 | 6.375 | VV | 113 | 5900 | 1.56% | 0.969% |
| 28 | 6.383 | 6.375 | 6.391 | VV | 69 | 627 | 0.17% | 0.103% |
| 29 | 6.396 | 6.391 | 6.503 | VV | 72 | 2215 | 0.59% | 0.364% |
| 30 | 6.536 | 6.503 | 6.544 | VV | 26 | 389 | 0.10% | 0.064% |
| 31 | 6.557 | 6.544 | 6.600 | VV | 27 | 566 | 0.15% | 0.093% |
| 32 | 6.609 | 6.600 | 6.619 | VV | 30 | 212 | 0.06% | 0.035% |
| 33 | 6.641 | 6.619 | 6.650 | VV | 38 | 336 | 0.09% | 0.055% |
| 34 | 6.660 | 6.650 | 6.678 | VV | 35 | 254 | 0.07% | 0.042% |
| 35 | 6.707 | 6.678 | 6.727 | VV | 23 | 503 | 0.13% | 0.083% |
| 36 | 6.745 | 6.727 | 6.764 | VV | 30 | 451 | 0.12% | 0.074% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 6.770 | 6.764 | 6.778 | VV | 23 | 138 | 0.04% | 0.023% |
| 38 | 6.782 | 6.778 | 6.793 | VV | 27 | 148 | 0.04% | 0.024% |
| 39 | 6.825 | 6.815 | 6.840 | VV | 30 | 245 | 0.06% | 0.040% |
| 40 | 6.849 | 6.840 | 6.856 | VV | 10 | 55 | 0.01% | 0.009% |
| 41 | 6.892 | 6.856 | 6.909 | VV | 15 | 412 | 0.11% | 0.068% |
| 42 | 6.957 | 6.909 | 6.964 | VV | 25 | 515 | 0.14% | 0.085% |
| 43 | 6.974 | 6.964 | 6.992 | VV | 31 | 299 | 0.08% | 0.049% |
| 44 | 7.013 | 6.992 | 7.025 | VV | 23 | 348 | 0.09% | 0.057% |
| 45 | 7.056 | 7.025 | 7.092 | VV | 51 | 1455 | 0.38% | 0.239% |
| 46 | 7.101 | 7.092 | 7.114 | VV | 46 | 447 | 0.12% | 0.073% |
| 47 | 7.150 | 7.114 | 7.169 | VV | 32 | 756 | 0.20% | 0.124% |
| 48 | 7.181 | 7.169 | 7.191 | VV | 28 | 204 | 0.05% | 0.034% |
| 49 | 7.195 | 7.191 | 7.202 | VB | 15 | 51 | 0.01% | 0.008% |
| 50 | 7.282 | 7.265 | 7.307 | BV | 21 | 330 | 0.09% | 0.054% |
| 51 | 7.325 | 7.307 | 7.334 | VV | 23 | 200 | 0.05% | 0.033% |
| 52 | 7.353 | 7.334 | 7.364 | VV | 28 | 332 | 0.09% | 0.055% |
| 53 | 7.392 | 7.364 | 7.401 | VV | 25 | 434 | 0.11% | 0.071% |
| 54 | 7.429 | 7.401 | 7.449 | VV | 34 | 615 | 0.16% | 0.101% |
| 55 | 7.488 | 7.449 | 7.504 | VV | 32 | 779 | 0.21% | 0.128% |
| 56 | 7.509 | 7.504 | 7.547 | VV | 31 | 416 | 0.11% | 0.068% |
| 57 | 7.557 | 7.547 | 7.565 | PV | 13 | 83 | 0.02% | 0.014% |
| 58 | 7.572 | 7.565 | 7.582 | VV | 20 | 122 | 0.03% | 0.020% |
| 59 | 7.606 | 7.582 | 7.623 | VV | 25 | 354 | 0.09% | 0.058% |
| 60 | 7.644 | 7.623 | 7.653 | VV | 36 | 286 | 0.08% | 0.047% |
| 61 | 7.669 | 7.653 | 7.678 | VV | 31 | 316 | 0.08% | 0.052% |
| 62 | 7.737 | 7.678 | 7.762 | VV | 44 | 1654 | 0.44% | 0.272% |
| 63 | 7.788 | 7.762 | 7.816 | VV | 46 | 1158 | 0.31% | 0.190% |
| 64 | 7.838 | 7.816 | 7.852 | VV | 52 | 794 | 0.21% | 0.131% |
| 65 | 7.881 | 7.852 | 7.907 | VV | 62 | 1520 | 0.40% | 0.250% |
| 66 | 7.915 | 7.907 | 7.944 | VV | 51 | 709 | 0.19% | 0.116% |
| 67 | 7.962 | 7.944 | 7.977 | VV | 32 | 496 | 0.13% | 0.081% |
| 68 | 7.990 | 7.977 | 8.014 | VV | 27 | 496 | 0.13% | 0.082% |
| 69 | 8.041 | 8.014 | 8.076 | VV | 29 | 857 | 0.23% | 0.141% |
| 70 | 8.097 | 8.076 | 8.105 | VV | 23 | 298 | 0.08% | 0.049% |
| 71 | 8.116 | 8.105 | 8.127 | VV | 29 | 296 | 0.08% | 0.049% |
| 72 | 8.138 | 8.127 | 8.153 | VV | 28 | 306 | 0.08% | 0.050% |
| 73 | 8.165 | 8.153 | 8.173 | VV | 35 | 328 | 0.09% | 0.054% |
| 74 | 8.181 | 8.173 | 8.251 | VV | 30 | 1140 | 0.30% | 0.187% |
| 75 | 8.281 | 8.251 | 8.308 | VV | 47 | 880 | 0.23% | 0.145% |
| 76 | 8.317 | 8.308 | 8.326 | VV | 25 | 240 | 0.06% | 0.039% |
| 77 | 8.335 | 8.326 | 8.345 | VV | 25 | 220 | 0.06% | 0.036% |
| 78 | 8.365 | 8.345 | 8.374 | VV | 40 | 431 | 0.11% | 0.071% |
| 79 | 8.388 | 8.374 | 8.400 | VV | 37 | 414 | 0.11% | 0.068% |
| 80 | 8.432 | 8.400 | 8.469 | VV | 30 | 737 | 0.19% | 0.121% |
| 81 | 8.519 | 8.469 | 8.534 | VV | 34 | 704 | 0.19% | 0.116% |
| 82 | 8.563 | 8.534 | 8.595 | VV | 35 | 779 | 0.21% | 0.128% |
| 83 | 8.623 | 8.595 | 8.634 | VV | 23 | 343 | 0.09% | 0.056% |
| 84 | 8.792 | 8.634 | 8.965 | VV | 6487 | 378350 | 100.00% | 62.167% |
| 85 | 8.972 | 8.965 | 9.009 | VV | 116 | 2455 | 0.65% | 0.403% |
| 86 | 9.018 | 9.009 | 9.069 | VV | 85 | 2314 | 0.61% | 0.380% |
| 87 | 9.076 | 9.069 | 9.087 | VV | 55 | 510 | 0.13% | 0.084% |
| 88 | 9.096 | 9.087 | 9.127 | VV | 63 | 1008 | 0.27% | 0.166% |
| 89 | 9.137 | 9.127 | 9.158 | VV | 56 | 741 | 0.20% | 0.122% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 9.167 | 9.158 | 9.180 | VV | 39 | 357 | 0.09% | 0.059% |
| 91 | 9.196 | 9.180 | 9.211 | VV | 41 | 521 | 0.14% | 0.086% |
| 92 | 9.218 | 9.211 | 9.229 | VV | 36 | 259 | 0.07% | 0.043% |
| 93 | 9.250 | 9.229 | 9.258 | VV | 29 | 400 | 0.11% | 0.066% |
| 94 | 9.264 | 9.258 | 9.277 | VV | 25 | 201 | 0.05% | 0.033% |
| 95 | 9.294 | 9.277 | 9.312 | VV | 36 | 381 | 0.10% | 0.063% |
| 96 | 9.328 | 9.312 | 9.356 | VV | 31 | 485 | 0.13% | 0.080% |
| 97 | 9.400 | 9.356 | 9.411 | VV | 27 | 492 | 0.13% | 0.081% |
| 98 | 9.431 | 9.411 | 9.439 | VV | 26 | 339 | 0.09% | 0.056% |
| 99 | 9.447 | 9.439 | 9.461 | VV | 26 | 292 | 0.08% | 0.048% |
| 100 | 9.467 | 9.461 | 9.479 | VV | 32 | 252 | 0.07% | 0.041% |
| 101 | 9.488 | 9.479 | 9.522 | VV | 24 | 471 | 0.12% | 0.077% |
| 102 | 9.545 | 9.522 | 9.555 | VV | 25 | 256 | 0.07% | 0.042% |
| 103 | 9.608 | 9.555 | 9.634 | VV | 27 | 675 | 0.18% | 0.111% |
| 104 | 9.645 | 9.634 | 9.661 | VV | 28 | 330 | 0.09% | 0.054% |
| 105 | 9.684 | 9.661 | 9.698 | VV | 30 | 539 | 0.14% | 0.089% |
| 106 | 9.716 | 9.698 | 9.729 | VV | 27 | 338 | 0.09% | 0.056% |
| 107 | 9.748 | 9.729 | 9.761 | VV | 24 | 326 | 0.09% | 0.054% |
| 108 | 9.776 | 9.761 | 9.793 | VV | 35 | 544 | 0.14% | 0.089% |
| 109 | 9.825 | 9.793 | 9.839 | VV | 43 | 1001 | 0.26% | 0.164% |
| 110 | 9.847 | 9.839 | 9.857 | VV | 52 | 420 | 0.11% | 0.069% |
| 111 | 9.864 | 9.857 | 9.874 | VV | 45 | 333 | 0.09% | 0.055% |
| 112 | 9.911 | 9.874 | 9.921 | VV | 33 | 814 | 0.22% | 0.134% |
| 113 | 9.940 | 9.921 | 9.964 | VV | 30 | 543 | 0.14% | 0.089% |
| 114 | 10.004 | 9.964 | 10.018 | VV | 38 | 574 | 0.15% | 0.094% |
| 115 | 10.032 | 10.018 | 10.085 | VV | 31 | 888 | 0.23% | 0.146% |
| 116 | 10.121 | 10.085 | 10.165 | VV | 48 | 1326 | 0.35% | 0.218% |
| 117 | 10.193 | 10.165 | 10.207 | VV | 48 | 699 | 0.18% | 0.115% |
| 118 | 10.234 | 10.207 | 10.258 | VV | 42 | 828 | 0.22% | 0.136% |
| 119 | 10.338 | 10.258 | 10.354 | VV | 66 | 2481 | 0.66% | 0.408% |
| 120 | 10.374 | 10.354 | 10.418 | VV | 87 | 2321 | 0.61% | 0.381% |
| 121 | 10.432 | 10.418 | 10.454 | VV | 73 | 1102 | 0.29% | 0.181% |
| 122 | 10.463 | 10.454 | 10.485 | VV | 48 | 679 | 0.18% | 0.112% |
| 123 | 10.504 | 10.485 | 10.530 | VV | 39 | 719 | 0.19% | 0.118% |
| 124 | 10.539 | 10.530 | 10.547 | VV | 26 | 205 | 0.05% | 0.034% |
| 125 | 10.623 | 10.547 | 10.694 | VV | 105 | 5484 | 1.45% | 0.901% |
| 126 | 10.702 | 10.694 | 10.721 | VV | 33 | 479 | 0.13% | 0.079% |
| 127 | 10.770 | 10.721 | 10.792 | VV | 38 | 1237 | 0.33% | 0.203% |
| 128 | 10.800 | 10.792 | 10.807 | VV | 26 | 196 | 0.05% | 0.032% |
| 129 | 10.826 | 10.807 | 10.872 | VV | 35 | 962 | 0.25% | 0.158% |
| 130 | 10.883 | 10.872 | 10.898 | VV | 45 | 503 | 0.13% | 0.083% |
| 131 | 10.907 | 10.898 | 10.911 | VV | 21 | 132 | 0.03% | 0.022% |
| 132 | 10.917 | 10.911 | 10.925 | VV | 25 | 156 | 0.04% | 0.026% |
| 133 | 10.934 | 10.925 | 10.981 | VV | 33 | 580 | 0.15% | 0.095% |
| 134 | 10.994 | 10.981 | 11.008 | VV | 25 | 293 | 0.08% | 0.048% |
| 135 | 11.018 | 11.008 | 11.030 | VV | 32 | 314 | 0.08% | 0.052% |
| 136 | 11.039 | 11.030 | 11.050 | VV | 33 | 273 | 0.07% | 0.045% |
| 137 | 11.066 | 11.050 | 11.091 | VV | 29 | 382 | 0.10% | 0.063% |
| 138 | 11.104 | 11.091 | 11.111 | PV | 24 | 201 | 0.05% | 0.033% |
| 139 | 11.138 | 11.111 | 11.155 | VV | 35 | 681 | 0.18% | 0.112% |
| 140 | 11.192 | 11.155 | 11.200 | VV | 27 | 595 | 0.16% | 0.098% |
| 141 | 11.238 | 11.200 | 11.249 | VV | 39 | 758 | 0.20% | 0.125% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 11.273 | 11.249 | 11.298 | VV | 43 | 735 | 0.19% | 0.121% |
| 143 | 11.331 | 11.298 | 11.343 | VV | 38 | 652 | 0.17% | 0.107% |
| 144 | 11.357 | 11.343 | 11.387 | VV | 37 | 488 | 0.13% | 0.080% |
| 145 | 11.393 | 11.387 | 11.399 | VV | 20 | 70 | 0.02% | 0.011% |
| 146 | 11.414 | 11.399 | 11.437 | VV | 39 | 545 | 0.14% | 0.090% |
| 147 | 11.449 | 11.437 | 11.462 | VV | 29 | 349 | 0.09% | 0.057% |
| 148 | 11.477 | 11.462 | 11.488 | VV | 50 | 529 | 0.14% | 0.087% |
| 149 | 11.499 | 11.488 | 11.532 | VV | 40 | 824 | 0.22% | 0.135% |
| 150 | 11.551 | 11.532 | 11.569 | VV | 35 | 530 | 0.14% | 0.087% |
| 151 | 11.576 | 11.569 | 11.583 | VV | 24 | 176 | 0.05% | 0.029% |
| 152 | 11.605 | 11.583 | 11.621 | VV | 35 | 613 | 0.16% | 0.101% |
| 153 | 11.630 | 11.621 | 11.642 | VV | 31 | 264 | 0.07% | 0.043% |
| 154 | 11.662 | 11.642 | 11.680 | VV | 23 | 358 | 0.09% | 0.059% |
| 155 | 11.706 | 11.680 | 11.746 | VV | 35 | 995 | 0.26% | 0.163% |
| 156 | 11.757 | 11.746 | 11.804 | VV | 34 | 968 | 0.26% | 0.159% |
| 157 | 11.813 | 11.804 | 11.823 | VV | 35 | 309 | 0.08% | 0.051% |
| 158 | 11.845 | 11.823 | 11.860 | VV | 42 | 720 | 0.19% | 0.118% |
| 159 | 11.879 | 11.860 | 11.903 | VV | 44 | 825 | 0.22% | 0.136% |
| 160 | 11.921 | 11.903 | 11.946 | VV | 36 | 644 | 0.17% | 0.106% |
| 161 | 11.966 | 11.946 | 11.993 | VV | 32 | 647 | 0.17% | 0.106% |
| 162 | 12.003 | 11.993 | 12.024 | VV | 29 | 438 | 0.12% | 0.072% |
| 163 | 12.031 | 12.024 | 12.038 | VV | 32 | 214 | 0.06% | 0.035% |
| 164 | 12.049 | 12.038 | 12.067 | VV | 36 | 567 | 0.15% | 0.093% |
| 165 | 12.072 | 12.067 | 12.120 | VV | 30 | 479 | 0.13% | 0.079% |
| 166 | 12.133 | 12.120 | 12.143 | VV | 24 | 251 | 0.07% | 0.041% |
| 167 | 12.153 | 12.143 | 12.166 | VV | 24 | 221 | 0.06% | 0.036% |
| 168 | 12.175 | 12.166 | 12.183 | VV | 28 | 174 | 0.05% | 0.029% |
| 169 | 12.208 | 12.183 | 12.238 | VV | 25 | 542 | 0.14% | 0.089% |
| 170 | 12.283 | 12.238 | 12.301 | VV | 37 | 699 | 0.18% | 0.115% |
| 171 | 12.345 | 12.301 | 12.361 | VV | 31 | 700 | 0.18% | 0.115% |
| 172 | 12.379 | 12.361 | 12.394 | VV | 16 | 245 | 0.06% | 0.040% |
| 173 | 12.407 | 12.394 | 12.434 | VV | 30 | 453 | 0.12% | 0.074% |
| 174 | 12.457 | 12.434 | 12.467 | VV | 20 | 302 | 0.08% | 0.050% |
| 175 | 12.485 | 12.467 | 12.495 | VV | 32 | 363 | 0.10% | 0.060% |
| 176 | 12.504 | 12.495 | 12.511 | VV | 23 | 178 | 0.05% | 0.029% |
| 177 | 12.520 | 12.511 | 12.536 | VV | 24 | 305 | 0.08% | 0.050% |
| 178 | 12.548 | 12.536 | 12.567 | VV | 30 | 403 | 0.11% | 0.066% |
| 179 | 12.589 | 12.567 | 12.609 | VV | 35 | 497 | 0.13% | 0.082% |
| 180 | 12.629 | 12.609 | 12.637 | VV | 37 | 301 | 0.08% | 0.049% |
| 181 | 12.657 | 12.637 | 12.682 | VV | 32 | 614 | 0.16% | 0.101% |
| 182 | 12.703 | 12.682 | 12.748 | VV | 40 | 1081 | 0.29% | 0.178% |
| 183 | 12.775 | 12.748 | 12.787 | VV | 42 | 691 | 0.18% | 0.114% |
| 184 | 12.798 | 12.787 | 12.838 | VV | 39 | 815 | 0.22% | 0.134% |
| 185 | 12.848 | 12.838 | 12.898 | VV | 28 | 743 | 0.20% | 0.122% |
| 186 | 12.923 | 12.898 | 12.938 | VV | 45 | 632 | 0.17% | 0.104% |
| 187 | 12.948 | 12.938 | 12.962 | VV | 44 | 411 | 0.11% | 0.068% |
| 188 | 12.975 | 12.962 | 12.992 | VV | 35 | 489 | 0.13% | 0.080% |
| 189 | 13.048 | 12.992 | 13.113 | VV | 62 | 2757 | 0.73% | 0.453% |
| 190 | 13.184 | 13.113 | 13.208 | VV | 85 | 3167 | 0.84% | 0.520% |
| 191 | 13.216 | 13.208 | 13.241 | VV | 74 | 1128 | 0.30% | 0.185% |
| 192 | 13.250 | 13.241 | 13.271 | VV | 46 | 588 | 0.16% | 0.097% |
| 193 | 13.281 | 13.271 | 13.311 | VV | 36 | 585 | 0.15% | 0.096% |
| 194 | 13.325 | 13.311 | 13.359 | VV | 33 | 595 | 0.16% | 0.098% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.372 | 13.359 | 13.399 | VV | 37 | 562 | 0.15% | 0.092% |
| 196 | 13.427 | 13.399 | 13.454 | PV | 37 | 742 | 0.20% | 0.122% |
| 197 | 13.466 | 13.454 | 13.477 | VV | 36 | 436 | 0.12% | 0.072% |
| 198 | 13.490 | 13.477 | 13.511 | VV | 40 | 699 | 0.18% | 0.115% |
| 199 | 13.523 | 13.511 | 13.541 | VV | 41 | 604 | 0.16% | 0.099% |
| 200 | 13.548 | 13.541 | 13.586 | VV | 37 | 734 | 0.19% | 0.121% |
| 201 | 13.620 | 13.586 | 13.658 | VV | 41 | 1155 | 0.31% | 0.190% |
| 202 | 13.669 | 13.658 | 13.681 | VV | 31 | 286 | 0.08% | 0.047% |
| 203 | 13.689 | 13.681 | 13.708 | VV | 25 | 290 | 0.08% | 0.048% |
| 204 | 13.719 | 13.708 | 13.737 | VV | 30 | 344 | 0.09% | 0.057% |
| 205 | 13.748 | 13.737 | 13.772 | VV | 22 | 375 | 0.10% | 0.062% |
| 206 | 13.801 | 13.772 | 13.853 | VV | 38 | 1254 | 0.33% | 0.206% |
| 207 | 13.911 | 13.853 | 13.936 | VV | 92 | 2831 | 0.75% | 0.465% |
| 208 | 13.960 | 13.936 | 13.974 | VV | 77 | 1469 | 0.39% | 0.241% |
| 209 | 14.118 | 13.974 | 14.252 | VV | 292 | 26878 | 7.10% | 4.416% |
| 210 | 14.343 | 14.252 | 14.484 | VV | 281 | 19373 | 5.12% | 3.183% |
| 211 | 14.497 | 14.484 | 14.518 | VV | 28 | 433 | 0.11% | 0.071% |
| 212 | 14.538 | 14.518 | 14.552 | VV | 40 | 431 | 0.11% | 0.071% |
| 213 | 14.578 | 14.552 | 14.588 | PV | 30 | 402 | 0.11% | 0.066% |
| 214 | 14.599 | 14.588 | 14.607 | VV | 28 | 231 | 0.06% | 0.038% |
| 215 | 14.633 | 14.607 | 14.648 | VV | 29 | 417 | 0.11% | 0.068% |
| 216 | 14.657 | 14.648 | 14.673 | VV | 27 | 255 | 0.07% | 0.042% |
| 217 | 14.691 | 14.673 | 14.724 | VV | 30 | 548 | 0.14% | 0.090% |
| 218 | 14.780 | 14.724 | 14.798 | VV | 30 | 998 | 0.26% | 0.164% |
| 219 | 14.881 | 14.798 | 14.898 | VV | 67 | 2785 | 0.74% | 0.458% |
| 220 | 14.923 | 14.898 | 14.953 | VV | 72 | 1795 | 0.47% | 0.295% |
| 221 | 14.961 | 14.953 | 14.995 | VV | 48 | 916 | 0.24% | 0.151% |
| 222 | 15.045 | 14.995 | 15.055 | VV | 72 | 1723 | 0.46% | 0.283% |
| 223 | 15.075 | 15.055 | 15.092 | VV | 69 | 1323 | 0.35% | 0.217% |
| 224 | 15.100 | 15.092 | 15.123 | VV | 54 | 813 | 0.21% | 0.134% |
| 225 | 15.144 | 15.123 | 15.183 | VV | 56 | 1398 | 0.37% | 0.230% |
| 226 | 15.220 | 15.183 | 15.242 | VV | 49 | 1381 | 0.36% | 0.227% |
| 227 | 15.250 | 15.242 | 15.256 | VV | 38 | 283 | 0.07% | 0.047% |
| 228 | 15.267 | 15.256 | 15.307 | VV | 40 | 1031 | 0.27% | 0.169% |
| 229 | 15.406 | 15.307 | 15.421 | VV | 107 | 4612 | 1.22% | 0.758% |
| 230 | 15.441 | 15.421 | 15.449 | VV | 79 | 1184 | 0.31% | 0.194% |
| 231 | 15.455 | 15.449 | 15.494 | VV | 73 | 1827 | 0.48% | 0.300% |
| 232 | 15.513 | 15.494 | 15.577 | VV | 95 | 3595 | 0.95% | 0.591% |
| 233 | 15.589 | 15.577 | 15.603 | VV | 70 | 967 | 0.26% | 0.159% |
| 234 | 15.620 | 15.603 | 15.645 | VV | 76 | 1580 | 0.42% | 0.260% |
| 235 | 15.653 | 15.645 | 15.699 | VV | 59 | 1221 | 0.32% | 0.201% |
| 236 | 15.707 | 15.699 | 15.716 | VV | 34 | 275 | 0.07% | 0.045% |
| 237 | 15.745 | 15.716 | 15.763 | VV | 37 | 706 | 0.19% | 0.116% |
| 238 | 15.799 | 15.763 | 15.807 | VV | 30 | 526 | 0.14% | 0.087% |
| 239 | 15.817 | 15.807 | 15.833 | VV | 28 | 338 | 0.09% | 0.056% |
| 240 | 15.844 | 15.833 | 15.862 | PV | 28 | 310 | 0.08% | 0.051% |
| 241 | 15.880 | 15.862 | 15.904 | VV | 26 | 432 | 0.11% | 0.071% |
| 242 | 15.918 | 15.904 | 15.927 | VV | 44 | 466 | 0.12% | 0.077% |
| 243 | 15.934 | 15.927 | 15.952 | VV | 46 | 582 | 0.15% | 0.096% |
| 244 | 15.961 | 15.952 | 15.971 | VV | 40 | 392 | 0.10% | 0.064% |
| 245 | 15.980 | 15.971 | 15.991 | VV | 42 | 392 | 0.10% | 0.064% |
| 246 | 15.998 | 15.991 | 16.037 | VV | 38 | 813 | 0.21% | 0.134% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 16.046 | 16.037 | 16.078 | VV | 26 | 484 | 0.13% | 0.079% |
| 248 | 16.092 | 16.078 | 16.103 | VV | 31 | 248 | 0.07% | 0.041% |
| 249 | 16.197 | 16.103 | 16.265 | PV | 141 | 6534 | 1.73% | 1.074% |
| 250 | 16.271 | 16.265 | 16.306 | VV | 37 | 532 | 0.14% | 0.087% |
| 251 | 16.320 | 16.306 | 16.327 | VV | 12 | 108 | 0.03% | 0.018% |
| 252 | 16.363 | 16.327 | 16.397 | VV | 28 | 513 | 0.14% | 0.084% |
| | | | Sum of corrected areas: | | | 608608 | | |

FB011525.M Tue Feb 04 00:48:36 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/29/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | JPP-42.2-012925 | SDG No.: | Q1232 |
| Lab Sample ID: | Q1232-13 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 92.1 Decanted: |
| Sample Wt/Vol: | 11.46 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031445.D | 1 | 02/03/25 14:14 | FB020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 21.0 | U | 4.00 | 21.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 16.0 | | 50 - 150 | 80% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031445.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 14:14
Operator : YP/AJ
Sample : Q1232-13
Misc : 11.46G/5.00 ML DI WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-42.2-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 5) s | AAA-TFT | 8.793 | 382609 | 16.040 ng/ml |
| | **Target Compounds** | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

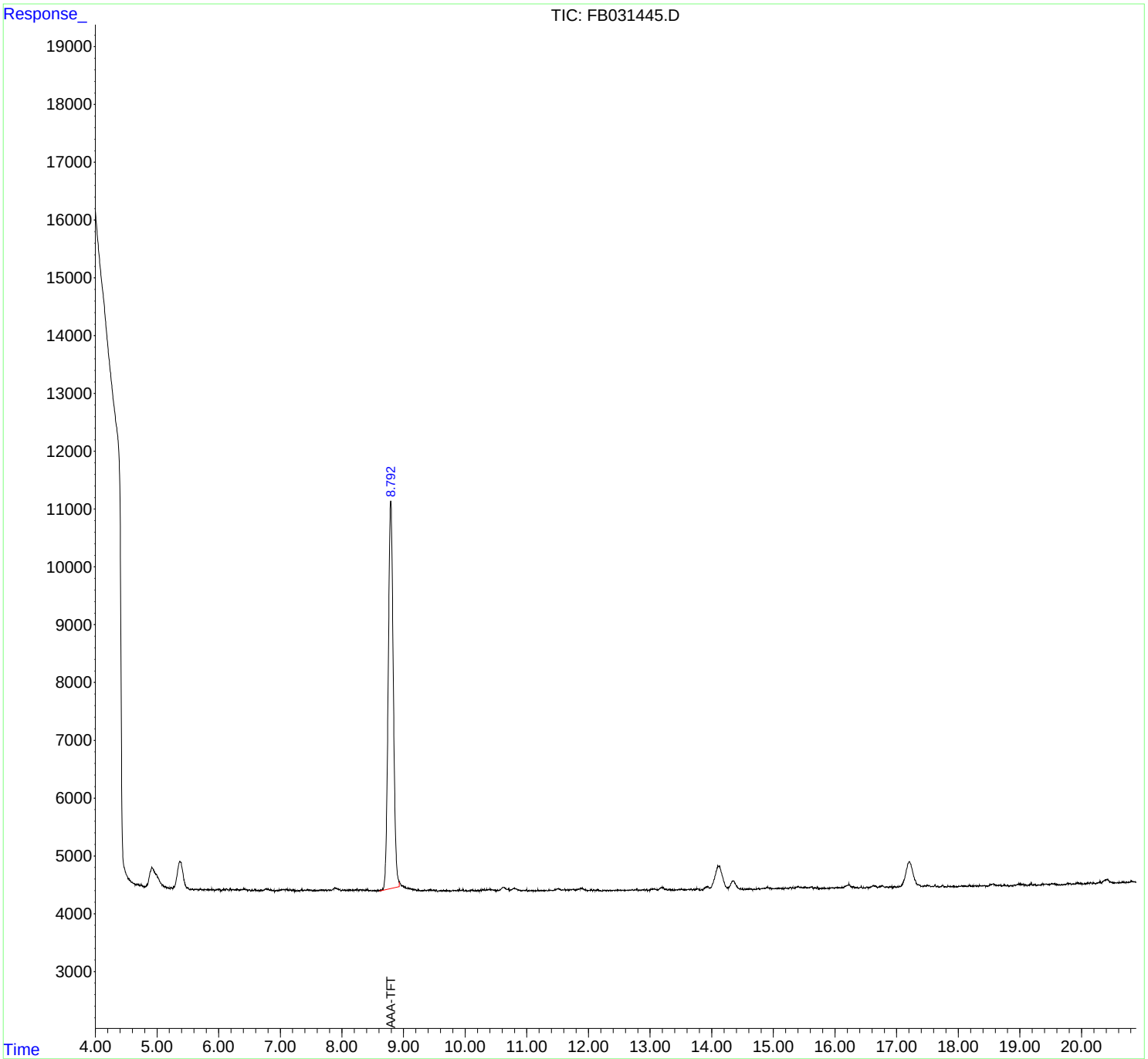
Quantitation Report (QT Reviewed)

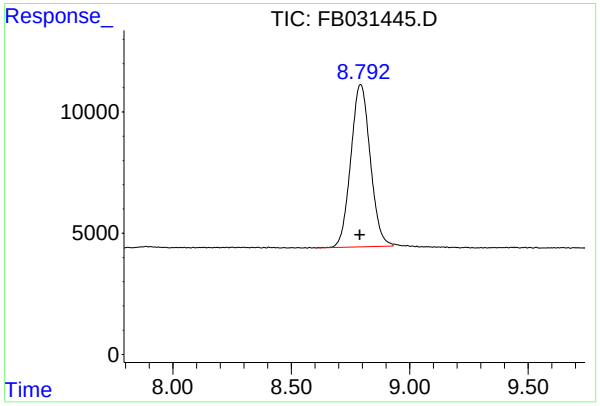
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031445.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 14:14
Operator : YP/AJ
Sample : Q1232-13
Misc : 11.46G/5.00 ML DI WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-42.2-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.793 min
Delta R.T.: 0.003 mi
Response: 382609
Conc: 16.04 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
JPP-42.2-012925

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031445.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 14:14
Sample : Q1232-13
Misc : 11.46G/5.00 ML DI WATER
ALS Vial : 7 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.596 | 4.554 | 4.649 | BV | 3 | 17 | 0.00% | 0.003% |
| 2 | 4.659 | 4.649 | 4.668 | PV | 23 | 127 | 0.03% | 0.021% |
| 3 | 4.683 | 4.668 | 4.699 | PV | 34 | 364 | 0.09% | 0.060% |
| 4 | 4.707 | 4.699 | 4.729 | VV | 33 | 337 | 0.09% | 0.056% |
| 5 | 4.741 | 4.729 | 4.790 | VV | 44 | 821 | 0.21% | 0.135% |
| 6 | 5.090 | 5.081 | 5.155 | VV | 65 | 1806 | 0.46% | 0.298% |
| 7 | 5.163 | 5.155 | 5.191 | VV | 28 | 372 | 0.09% | 0.061% |
| 8 | 5.196 | 5.191 | 5.213 | VV | 19 | 123 | 0.03% | 0.020% |
| 9 | 5.224 | 5.213 | 5.244 | VV | 30 | 341 | 0.09% | 0.056% |
| 10 | 5.490 | 5.480 | 5.498 | VV | 40 | 366 | 0.09% | 0.060% |
| 11 | 5.507 | 5.498 | 5.531 | VV | 40 | 431 | 0.11% | 0.071% |
| 12 | 5.574 | 5.531 | 5.609 | VV | 30 | 586 | 0.15% | 0.097% |
| 13 | 5.617 | 5.609 | 5.630 | VV | 19 | 209 | 0.05% | 0.034% |
| 14 | 5.647 | 5.630 | 5.667 | VV | 25 | 378 | 0.10% | 0.062% |
| 15 | 5.677 | 5.667 | 5.686 | PV | 21 | 146 | 0.04% | 0.024% |
| 16 | 5.711 | 5.686 | 5.734 | VV | 30 | 534 | 0.13% | 0.088% |
| 17 | 5.768 | 5.734 | 5.775 | VV | 24 | 397 | 0.10% | 0.065% |
| 18 | 5.783 | 5.775 | 5.809 | VV | 22 | 351 | 0.09% | 0.058% |
| 19 | 5.822 | 5.809 | 5.831 | VV | 30 | 243 | 0.06% | 0.040% |
| 20 | 5.842 | 5.831 | 5.861 | VV | 25 | 342 | 0.09% | 0.056% |
| 21 | 5.871 | 5.861 | 5.884 | VV | 24 | 254 | 0.06% | 0.042% |
| 22 | 5.890 | 5.884 | 5.959 | VV | 36 | 726 | 0.18% | 0.120% |
| 23 | 6.015 | 5.959 | 6.048 | VV | 34 | 1068 | 0.27% | 0.176% |
| 24 | 6.062 | 6.048 | 6.076 | VV | 28 | 305 | 0.08% | 0.050% |
| 25 | 6.090 | 6.076 | 6.112 | VV | 32 | 458 | 0.12% | 0.076% |
| 26 | 6.127 | 6.112 | 6.146 | VV | 41 | 615 | 0.16% | 0.101% |
| 27 | 6.153 | 6.146 | 6.170 | VV | 32 | 341 | 0.09% | 0.056% |
| 28 | 6.184 | 6.170 | 6.213 | VV | 47 | 799 | 0.20% | 0.132% |
| 29 | 6.233 | 6.213 | 6.264 | VV | 33 | 817 | 0.21% | 0.135% |
| 30 | 6.273 | 6.264 | 6.288 | VV | 33 | 348 | 0.09% | 0.057% |
| 31 | 6.305 | 6.288 | 6.342 | VV | 40 | 926 | 0.23% | 0.153% |
| 32 | 6.373 | 6.342 | 6.396 | VV | 36 | 957 | 0.24% | 0.158% |
| 33 | 6.409 | 6.396 | 6.421 | VV | 50 | 629 | 0.16% | 0.104% |
| 34 | 6.424 | 6.421 | 6.477 | VV | 43 | 980 | 0.25% | 0.161% |
| 35 | 6.503 | 6.477 | 6.520 | VV | 34 | 628 | 0.16% | 0.103% |
| 36 | 6.549 | 6.520 | 6.572 | VV | 32 | 675 | 0.17% | 0.111% |

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|---|---|---|---|---|---|---|---|---|
| 37 | 6.589 | 6.572 | 6.598 | VV | 48 | 514 | 0.13% | 0.085% |
| 38 | 6.605 | 6.598 | 6.620 | VV | 39 | 358 | 0.09% | 0.059% |
| 39 | 6.646 | 6.620 | 6.669 | VV | 31 | 593 | 0.15% | 0.098% |
| 40 | 6.676 | 6.669 | 6.681 | VV | 32 | 165 | 0.04% | 0.027% |
| 41 | 6.692 | 6.681 | 6.708 | VV | 42 | 443 | 0.11% | 0.073% |
| 42 | 6.727 | 6.708 | 6.736 | VV | 31 | 416 | 0.11% | 0.069% |
| 43 | 6.773 | 6.736 | 6.794 | VV | 60 | 1597 | 0.40% | 0.263% |
| 44 | 6.842 | 6.824 | 6.878 | VV | 40 | 1030 | 0.26% | 0.170% |
| 45 | 6.899 | 6.878 | 6.909 | VV | 37 | 468 | 0.12% | 0.077% |
| 46 | 6.946 | 6.909 | 6.973 | PV | 34 | 968 | 0.24% | 0.160% |
| 47 | 7.049 | 6.973 | 7.058 | VV | 47 | 1885 | 0.48% | 0.311% |
| 48 | 7.069 | 7.058 | 7.080 | VV | 48 | 564 | 0.14% | 0.093% |
| 49 | 7.095 | 7.080 | 7.148 | VV | 55 | 1548 | 0.39% | 0.255% |
| 50 | 7.158 | 7.148 | 7.186 | VV | 49 | 779 | 0.20% | 0.128% |
| 51 | 7.194 | 7.186 | 7.202 | VV | 38 | 308 | 0.08% | 0.051% |
| 52 | 7.212 | 7.202 | 7.259 | VV | 50 | 951 | 0.24% | 0.157% |
| 53 | 7.275 | 7.259 | 7.293 | VV | 35 | 439 | 0.11% | 0.072% |
| 54 | 7.302 | 7.293 | 7.315 | VV | 30 | 314 | 0.08% | 0.052% |
| 55 | 7.332 | 7.315 | 7.340 | VV | 36 | 407 | 0.10% | 0.067% |
| 56 | 7.348 | 7.340 | 7.365 | VV | 47 | 509 | 0.13% | 0.084% |
| 57 | 7.397 | 7.365 | 7.408 | VV | 36 | 772 | 0.19% | 0.127% |
| 58 | 7.442 | 7.408 | 7.474 | VV | 48 | 1349 | 0.34% | 0.222% |
| 59 | 7.487 | 7.474 | 7.496 | VV | 37 | 430 | 0.11% | 0.071% |
| 60 | 7.505 | 7.496 | 7.530 | VV | 36 | 539 | 0.14% | 0.089% |
| 61 | 7.556 | 7.530 | 7.567 | VV | 42 | 533 | 0.13% | 0.088% |
| 62 | 7.603 | 7.567 | 7.626 | VV | 33 | 811 | 0.20% | 0.134% |
| 63 | 7.636 | 7.626 | 7.642 | VV | 36 | 286 | 0.07% | 0.047% |
| 64 | 7.660 | 7.642 | 7.727 | VV | 38 | 1629 | 0.41% | 0.268% |
| 65 | 7.741 | 7.727 | 7.758 | VV | 43 | 588 | 0.15% | 0.097% |
| 66 | 7.784 | 7.758 | 7.797 | VV | 40 | 724 | 0.18% | 0.119% |
| 67 | 7.810 | 7.797 | 7.831 | VV | 41 | 613 | 0.15% | 0.101% |
| 68 | 7.887 | 7.831 | 7.900 | VV | 80 | 2232 | 0.56% | 0.368% |
| 69 | 7.908 | 7.900 | 7.934 | VV | 64 | 1163 | 0.29% | 0.192% |
| 70 | 7.941 | 7.934 | 7.958 | VV | 56 | 631 | 0.16% | 0.104% |
| 71 | 7.966 | 7.958 | 7.986 | VV | 47 | 615 | 0.16% | 0.101% |
| 72 | 8.034 | 7.986 | 8.041 | VV | 35 | 906 | 0.23% | 0.149% |
| 73 | 8.050 | 8.041 | 8.059 | VV | 46 | 349 | 0.09% | 0.058% |
| 74 | 8.064 | 8.059 | 8.075 | VV | 32 | 263 | 0.07% | 0.043% |
| 75 | 8.086 | 8.075 | 8.095 | VV | 43 | 379 | 0.10% | 0.062% |
| 76 | 8.133 | 8.095 | 8.143 | VV | 40 | 889 | 0.22% | 0.146% |
| 77 | 8.152 | 8.143 | 8.169 | VV | 36 | 434 | 0.11% | 0.071% |
| 78 | 8.176 | 8.169 | 8.201 | VV | 38 | 572 | 0.14% | 0.094% |
| 79 | 8.228 | 8.201 | 8.237 | VV | 42 | 708 | 0.18% | 0.117% |
| 80 | 8.250 | 8.237 | 8.270 | VV | 53 | 682 | 0.17% | 0.112% |
| 81 | 8.302 | 8.270 | 8.324 | VV | 43 | 1096 | 0.28% | 0.181% |
| 82 | 8.336 | 8.324 | 8.349 | VV | 41 | 485 | 0.12% | 0.080% |
| 83 | 8.362 | 8.349 | 8.377 | VV | 38 | 483 | 0.12% | 0.080% |
| 84 | 8.387 | 8.377 | 8.396 | VV | 34 | 297 | 0.07% | 0.049% |
| 85 | 8.405 | 8.396 | 8.416 | VV | 45 | 385 | 0.10% | 0.063% |
| 86 | 8.428 | 8.416 | 8.453 | VV | 38 | 565 | 0.14% | 0.093% |
| 87 | 8.470 | 8.453 | 8.486 | VV | 29 | 412 | 0.10% | 0.068% |
| 88 | 8.505 | 8.486 | 8.518 | VV | 28 | 394 | 0.10% | 0.065% |
| 89 | 8.528 | 8.518 | 8.548 | VV | 26 | 354 | 0.09% | 0.058% |

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|---|---|---|---|---|---|---|---|---|
| 90 | 8.559 | 8.548 | 8.568 | VV | 22 | 224 | 0.06% | 0.037% |
| 91 | 8.578 | 8.568 | 8.593 | VV | 37 | 312 | 0.08% | 0.051% |
| 92 | 8.632 | 8.593 | 8.645 | VV | 35 | 809 | 0.20% | 0.133% |
| 93 | 8.793 | 8.645 | 8.985 | VV | 6762 | 396273 | 100.00% | 65.299% |
| 94 | 8.991 | 8.985 | 9.004 | VV | 112 | 1152 | 0.29% | 0.190% |
| 95 | 9.011 | 9.004 | 9.024 | VV | 96 | 996 | 0.25% | 0.164% |
| 96 | 9.032 | 9.024 | 9.043 | VV | 86 | 799 | 0.20% | 0.132% |
| 97 | 9.053 | 9.043 | 9.060 | VV | 65 | 637 | 0.16% | 0.105% |
| 98 | 9.069 | 9.060 | 9.116 | VV | 68 | 1900 | 0.48% | 0.313% |
| 99 | 9.121 | 9.116 | 9.133 | VV | 50 | 504 | 0.13% | 0.083% |
| 100 | 9.141 | 9.133 | 9.170 | VV | 49 | 971 | 0.25% | 0.160% |
| 101 | 9.184 | 9.170 | 9.214 | VV | 45 | 897 | 0.23% | 0.148% |
| 102 | 9.223 | 9.214 | 9.226 | VV | 29 | 167 | 0.04% | 0.027% |
| 103 | 9.237 | 9.226 | 9.258 | VV | 38 | 557 | 0.14% | 0.092% |
| 104 | 9.266 | 9.258 | 9.278 | VV | 27 | 239 | 0.06% | 0.039% |
| 105 | 9.287 | 9.278 | 9.310 | VV | 17 | 316 | 0.08% | 0.052% |
| 106 | 9.318 | 9.310 | 9.330 | VV | 25 | 239 | 0.06% | 0.039% |
| 107 | 9.350 | 9.330 | 9.366 | VV | 31 | 511 | 0.13% | 0.084% |
| 108 | 9.386 | 9.366 | 9.394 | VV | 29 | 423 | 0.11% | 0.070% |
| 109 | 9.440 | 9.394 | 9.465 | VV | 44 | 1229 | 0.31% | 0.203% |
| 110 | 9.488 | 9.465 | 9.497 | VV | 36 | 493 | 0.12% | 0.081% |
| 111 | 9.508 | 9.497 | 9.522 | VV | 32 | 318 | 0.08% | 0.052% |
| 112 | 9.534 | 9.522 | 9.552 | VV | 35 | 353 | 0.09% | 0.058% |
| 113 | 9.583 | 9.552 | 9.595 | VV | 18 | 327 | 0.08% | 0.054% |
| 114 | 9.610 | 9.595 | 9.634 | VV | 26 | 412 | 0.10% | 0.068% |
| 115 | 9.647 | 9.634 | 9.662 | VV | 28 | 334 | 0.08% | 0.055% |
| 116 | 9.670 | 9.662 | 9.681 | VV | 24 | 182 | 0.05% | 0.030% |
| 117 | 9.692 | 9.681 | 9.739 | VV | 29 | 567 | 0.14% | 0.093% |
| 118 | 9.748 | 9.739 | 9.771 | VV | 21 | 242 | 0.06% | 0.040% |
| 119 | 9.802 | 9.771 | 9.861 | VV | 28 | 982 | 0.25% | 0.162% |
| 120 | 9.871 | 9.861 | 9.903 | VV | 27 | 528 | 0.13% | 0.087% |
| 121 | 9.913 | 9.903 | 9.924 | VV | 51 | 383 | 0.10% | 0.063% |
| 122 | 9.965 | 9.924 | 9.989 | VV | 36 | 856 | 0.22% | 0.141% |
| 123 | 10.015 | 9.989 | 10.036 | VV | 27 | 436 | 0.11% | 0.072% |
| 124 | 10.053 | 10.036 | 10.062 | VV | 19 | 206 | 0.05% | 0.034% |
| 125 | 10.101 | 10.062 | 10.156 | VV | 31 | 1044 | 0.26% | 0.172% |
| 126 | 10.170 | 10.156 | 10.189 | VV | 31 | 304 | 0.08% | 0.050% |
| 127 | 10.207 | 10.189 | 10.240 | VV | 34 | 590 | 0.15% | 0.097% |
| 128 | 10.252 | 10.240 | 10.261 | VV | 33 | 244 | 0.06% | 0.040% |
| 129 | 10.271 | 10.261 | 10.278 | VV | 31 | 232 | 0.06% | 0.038% |
| 130 | 10.290 | 10.278 | 10.307 | VV | 44 | 541 | 0.14% | 0.089% |
| 131 | 10.315 | 10.307 | 10.326 | VV | 45 | 316 | 0.08% | 0.052% |
| 132 | 10.346 | 10.326 | 10.356 | VV | 40 | 524 | 0.13% | 0.086% |
| 133 | 10.365 | 10.356 | 10.372 | VV | 34 | 286 | 0.07% | 0.047% |
| 134 | 10.384 | 10.372 | 10.399 | VV | 42 | 579 | 0.15% | 0.095% |
| 135 | 10.408 | 10.399 | 10.415 | VV | 43 | 314 | 0.08% | 0.052% |
| 136 | 10.431 | 10.415 | 10.454 | VV | 37 | 761 | 0.19% | 0.125% |
| 137 | 10.468 | 10.454 | 10.485 | VV | 30 | 470 | 0.12% | 0.077% |
| 138 | 10.499 | 10.485 | 10.521 | VV | 28 | 423 | 0.11% | 0.070% |
| 139 | 10.530 | 10.521 | 10.540 | VV | 34 | 252 | 0.06% | 0.042% |
| 140 | 10.617 | 10.540 | 10.683 | VV | 77 | 4075 | 1.03% | 0.671% |
| 141 | 10.703 | 10.683 | 10.725 | VV | 53 | 915 | 0.23% | 0.151% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.799 | 10.725 | 10.913 | VV | 60 | 3984 | 1.01% | 0.657% |
| 143 | 10.923 | 10.913 | 10.932 | VV | 20 | 159 | 0.04% | 0.026% |
| 144 | 10.951 | 10.932 | 10.981 | VV | 25 | 538 | 0.14% | 0.089% |
| 145 | 10.998 | 10.981 | 11.015 | VV | 34 | 378 | 0.10% | 0.062% |
| 146 | 11.026 | 11.015 | 11.050 | VV | 20 | 276 | 0.07% | 0.046% |
| 147 | 11.064 | 11.050 | 11.072 | VV | 19 | 180 | 0.05% | 0.030% |
| 148 | 11.106 | 11.072 | 11.150 | VV | 26 | 681 | 0.17% | 0.112% |
| 149 | 11.181 | 11.150 | 11.199 | VV | 31 | 438 | 0.11% | 0.072% |
| 150 | 11.222 | 11.199 | 11.243 | VV | 22 | 421 | 0.11% | 0.069% |
| 151 | 11.259 | 11.243 | 11.293 | VV | 22 | 448 | 0.11% | 0.074% |
| 152 | 11.316 | 11.293 | 11.332 | VV | 23 | 386 | 0.10% | 0.064% |
| 153 | 11.370 | 11.332 | 11.378 | VV | 28 | 466 | 0.12% | 0.077% |
| 154 | 11.388 | 11.378 | 11.433 | VV | 21 | 576 | 0.15% | 0.095% |
| 155 | 11.451 | 11.433 | 11.462 | VV | 38 | 424 | 0.11% | 0.070% |
| 156 | 11.496 | 11.462 | 11.504 | VV | 51 | 957 | 0.24% | 0.158% |
| 157 | 11.513 | 11.504 | 11.527 | VV | 53 | 585 | 0.15% | 0.096% |
| 158 | 11.537 | 11.527 | 11.563 | VV | 43 | 712 | 0.18% | 0.117% |
| 159 | 11.584 | 11.563 | 11.602 | VV | 32 | 598 | 0.15% | 0.099% |
| 160 | 11.617 | 11.602 | 11.634 | VV | 44 | 518 | 0.13% | 0.085% |
| 161 | 11.643 | 11.634 | 11.652 | VV | 29 | 253 | 0.06% | 0.042% |
| 162 | 11.677 | 11.652 | 11.687 | VV | 28 | 479 | 0.12% | 0.079% |
| 163 | 11.715 | 11.687 | 11.727 | VV | 33 | 627 | 0.16% | 0.103% |
| 164 | 11.739 | 11.727 | 11.752 | VV | 37 | 484 | 0.12% | 0.080% |
| 165 | 11.758 | 11.752 | 11.788 | VV | 41 | 659 | 0.17% | 0.109% |
| 166 | 11.811 | 11.788 | 11.821 | VV | 35 | 521 | 0.13% | 0.086% |
| 167 | 11.836 | 11.821 | 11.845 | VV | 43 | 506 | 0.13% | 0.083% |
| 168 | 11.877 | 11.845 | 11.894 | VV | 59 | 1432 | 0.36% | 0.236% |
| 169 | 11.902 | 11.894 | 11.967 | VV | 53 | 1547 | 0.39% | 0.255% |
| 170 | 11.974 | 11.967 | 11.982 | VV | 22 | 168 | 0.04% | 0.028% |
| 171 | 12.047 | 11.982 | 12.072 | VV | 32 | 984 | 0.25% | 0.162% |
| 172 | 12.081 | 12.072 | 12.086 | VV | 27 | 159 | 0.04% | 0.026% |
| 173 | 12.091 | 12.086 | 12.122 | VV | 29 | 410 | 0.10% | 0.068% |
| 174 | 12.130 | 12.122 | 12.136 | VV | 24 | 146 | 0.04% | 0.024% |
| 175 | 12.148 | 12.136 | 12.192 | VV | 39 | 695 | 0.18% | 0.115% |
| 176 | 12.201 | 12.192 | 12.224 | VV | 18 | 148 | 0.04% | 0.024% |
| 177 | 12.246 | 12.224 | 12.261 | PV | 22 | 301 | 0.08% | 0.050% |
| 178 | 12.270 | 12.261 | 12.291 | VV | 21 | 257 | 0.06% | 0.042% |
| 179 | 12.303 | 12.291 | 12.344 | VV | 18 | 414 | 0.10% | 0.068% |
| 180 | 12.352 | 12.344 | 12.365 | VV | 23 | 201 | 0.05% | 0.033% |
| 181 | 12.411 | 12.365 | 12.429 | VV | 19 | 507 | 0.13% | 0.084% |
| 182 | 12.438 | 12.429 | 12.451 | VV | 22 | 198 | 0.05% | 0.033% |
| 183 | 12.472 | 12.451 | 12.482 | VV | 30 | 347 | 0.09% | 0.057% |
| 184 | 12.490 | 12.482 | 12.504 | VV | 23 | 217 | 0.05% | 0.036% |
| 185 | 12.516 | 12.504 | 12.566 | VV | 26 | 546 | 0.14% | 0.090% |
| 186 | 12.576 | 12.566 | 12.599 | VV | 18 | 273 | 0.07% | 0.045% |
| 187 | 12.611 | 12.599 | 12.651 | VV | 20 | 443 | 0.11% | 0.073% |
| 188 | 12.670 | 12.651 | 12.697 | VV | 23 | 483 | 0.12% | 0.080% |
| 189 | 12.711 | 12.697 | 12.732 | VV | 32 | 438 | 0.11% | 0.072% |
| 190 | 12.742 | 12.732 | 12.759 | VV | 24 | 289 | 0.07% | 0.048% |
| 191 | 12.788 | 12.759 | 12.807 | VV | 47 | 672 | 0.17% | 0.111% |
| 192 | 12.823 | 12.807 | 12.835 | VV | 23 | 241 | 0.06% | 0.040% |
| 193 | 12.858 | 12.835 | 12.867 | VV | 20 | 285 | 0.07% | 0.047% |
| 194 | 12.909 | 12.867 | 12.919 | VV | 29 | 646 | 0.16% | 0.106% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | rteres | | | |
| 195 | 12.948 | 12.919 | 12.961 | VV | 37 | 498 | 0.13% | 0.082% |
| 196 | 13.039 | 12.961 | 13.049 | VV | 42 | 1139 | 0.29% | 0.188% |
| 197 | 13.072 | 13.049 | 13.126 | VV | 45 | 1297 | 0.33% | 0.214% |
| 198 | 13.196 | 13.126 | 13.208 | VV | 63 | 2111 | 0.53% | 0.348% |
| 199 | 13.218 | 13.208 | 13.242 | VV | 66 | 899 | 0.23% | 0.148% |
| 200 | 13.251 | 13.242 | 13.291 | VV | 34 | 609 | 0.15% | 0.100% |
| 201 | 13.321 | 13.291 | 13.340 | VV | 33 | 640 | 0.16% | 0.105% |
| 202 | 13.366 | 13.340 | 13.386 | VV | 27 | 400 | 0.10% | 0.066% |
| 203 | 13.396 | 13.386 | 13.442 | VV | 25 | 481 | 0.12% | 0.079% |
| 204 | 13.476 | 13.442 | 13.486 | VV | 30 | 538 | 0.14% | 0.089% |
| 205 | 13.514 | 13.486 | 13.536 | VV | 32 | 680 | 0.17% | 0.112% |
| 206 | 13.548 | 13.536 | 13.561 | VV | 28 | 291 | 0.07% | 0.048% |
| 207 | 13.577 | 13.561 | 13.591 | VV | 22 | 292 | 0.07% | 0.048% |
| 208 | 13.622 | 13.591 | 13.650 | VV | 26 | 671 | 0.17% | 0.110% |
| 209 | 13.666 | 13.650 | 13.684 | VV | 33 | 455 | 0.11% | 0.075% |
| 210 | 13.710 | 13.684 | 13.735 | VV | 34 | 507 | 0.13% | 0.084% |
| 211 | 13.775 | 13.735 | 13.796 | VV | 36 | 867 | 0.22% | 0.143% |
| 212 | 13.807 | 13.796 | 13.816 | VV | 21 | 128 | 0.03% | 0.021% |
| 213 | 13.837 | 13.816 | 13.858 | VV | 19 | 302 | 0.08% | 0.050% |
| 214 | 13.896 | 13.858 | 13.902 | PV | 56 | 993 | 0.25% | 0.164% |
| 215 | 13.917 | 13.902 | 13.925 | VV | 65 | 795 | 0.20% | 0.131% |
| 216 | 13.938 | 13.925 | 13.961 | VV | 73 | 1258 | 0.32% | 0.207% |
| 217 | 14.130 | 13.961 | 14.249 | VV | 426 | 37061 | 9.35% | 6.107% |
| 218 | 14.257 | 14.249 | 14.266 | VV | 54 | 476 | 0.12% | 0.078% |
| 219 | 14.346 | 14.266 | 14.460 | VV | 164 | 10636 | 2.68% | 1.753% |
| 220 | 14.471 | 14.460 | 14.491 | VV | 38 | 420 | 0.11% | 0.069% |
| 221 | 14.502 | 14.491 | 14.524 | VV | 44 | 336 | 0.08% | 0.055% |
| 222 | 14.536 | 14.524 | 14.548 | VV | 32 | 251 | 0.06% | 0.041% |
| 223 | 14.565 | 14.548 | 14.579 | VV | 26 | 317 | 0.08% | 0.052% |
| 224 | 14.589 | 14.579 | 14.638 | VV | 33 | 672 | 0.17% | 0.111% |
| 225 | 14.645 | 14.638 | 14.674 | VV | 27 | 304 | 0.08% | 0.050% |
| 226 | 14.683 | 14.674 | 14.709 | VV | 17 | 267 | 0.07% | 0.044% |
| 227 | 14.768 | 14.709 | 14.785 | VV | 34 | 897 | 0.23% | 0.148% |
| 228 | 14.846 | 14.785 | 14.866 | VV | 33 | 1262 | 0.32% | 0.208% |
| 229 | 14.891 | 14.866 | 14.900 | VV | 48 | 687 | 0.17% | 0.113% |
| 230 | 14.908 | 14.900 | 14.917 | VV | 54 | 392 | 0.10% | 0.065% |
| 231 | 14.926 | 14.917 | 14.941 | VV | 40 | 484 | 0.12% | 0.080% |
| 232 | 14.951 | 14.941 | 14.998 | VV | 45 | 908 | 0.23% | 0.150% |
| 233 | 15.016 | 14.998 | 15.025 | VV | 25 | 345 | 0.09% | 0.057% |
| 234 | 15.034 | 15.025 | 15.046 | VV | 26 | 296 | 0.07% | 0.049% |
| 235 | 15.089 | 15.046 | 15.115 | VV | 41 | 1129 | 0.28% | 0.186% |
| 236 | 15.126 | 15.115 | 15.137 | VV | 29 | 334 | 0.08% | 0.055% |
| 237 | 15.144 | 15.137 | 15.163 | VV | 31 | 334 | 0.08% | 0.055% |
| 238 | 15.199 | 15.163 | 15.214 | VV | 32 | 760 | 0.19% | 0.125% |
| 239 | 15.230 | 15.214 | 15.245 | VV | 31 | 449 | 0.11% | 0.074% |
| 240 | 15.276 | 15.245 | 15.299 | VV | 47 | 1099 | 0.28% | 0.181% |
| 241 | 15.315 | 15.299 | 15.340 | VV | 42 | 705 | 0.18% | 0.116% |
| 242 | 15.411 | 15.340 | 15.445 | VV | 56 | 2634 | 0.66% | 0.434% |
| 243 | 15.457 | 15.445 | 15.497 | VV | 41 | 1092 | 0.28% | 0.180% |
| 244 | 15.507 | 15.497 | 15.549 | VV | 40 | 1090 | 0.28% | 0.180% |
| 245 | 15.581 | 15.549 | 15.590 | VV | 38 | 791 | 0.20% | 0.130% |
| 246 | 15.629 | 15.590 | 15.649 | VV | 55 | 1345 | 0.34% | 0.222% |

| | | | | | rteres | | | |
|---|---|---|---|---|---|---|---|---|
| 247 | 15.683 | 15.649 | 15.701 | VV | 31 | 800 | 0.20% | 0.132% |
| 248 | 15.714 | 15.701 | 15.734 | VV | 48 | 556 | 0.14% | 0.092% |
| 249 | 15.755 | 15.734 | 15.775 | PV | 23 | 409 | 0.10% | 0.067% |
| 250 | 15.825 | 15.775 | 15.833 | VV | 36 | 681 | 0.17% | 0.112% |
| 251 | 15.837 | 15.833 | 15.865 | VV | 21 | 284 | 0.07% | 0.047% |
| 252 | 15.874 | 15.865 | 15.896 | VV | 22 | 303 | 0.08% | 0.050% |
| 253 | 15.931 | 15.896 | 15.940 | VV | 28 | 534 | 0.13% | 0.088% |
| 254 | 15.958 | 15.940 | 15.967 | VV | 29 | 384 | 0.10% | 0.063% |
| 255 | 15.977 | 15.967 | 15.991 | VV | 24 | 252 | 0.06% | 0.042% |
| 256 | 16.011 | 15.991 | 16.038 | VV | 29 | 658 | 0.17% | 0.108% |
| 257 | 16.043 | 16.038 | 16.069 | VV | 26 | 410 | 0.10% | 0.068% |
| 258 | 16.077 | 16.069 | 16.087 | VV | 25 | 216 | 0.05% | 0.036% |
| 259 | 16.097 | 16.087 | 16.138 | VV | 24 | 561 | 0.14% | 0.093% |
| 260 | 16.228 | 16.138 | 16.321 | VV | 82 | 4687 | 1.18% | 0.772% |
| 261 | 16.330 | 16.321 | 16.341 | VV | 24 | 185 | 0.05% | 0.031% |
| 262 | 16.360 | 16.341 | 16.386 | VV | 23 | 336 | 0.08% | 0.055% |
| | | | Sum of corrected areas: | | | 606863 | | |

FB011525.M Tue Feb 04 00:46:20 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | 01/29/25 |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | 01/30/25 |
| Client Sample ID: | JPP-51.1-012925 | SDG No.: | Q1232 |
| Lab Sample ID: | Q1232-17 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 94.4 Decanted: |
| Sample Wt/Vol: | 13.25 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031446.D | 1 | 02/03/25 14:40 | FB020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 18.0 | U | 3.00 | 18.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 17.1 | | 50 - 150 | 86% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031446.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1232-17
Misc : 13.25G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-51.1-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| | **System Monitoring Compounds** | | | |
| 5) s | AAA-TFT | 8.792 | 409109 | 17.151 ng/ml |
| | **Target Compounds** | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

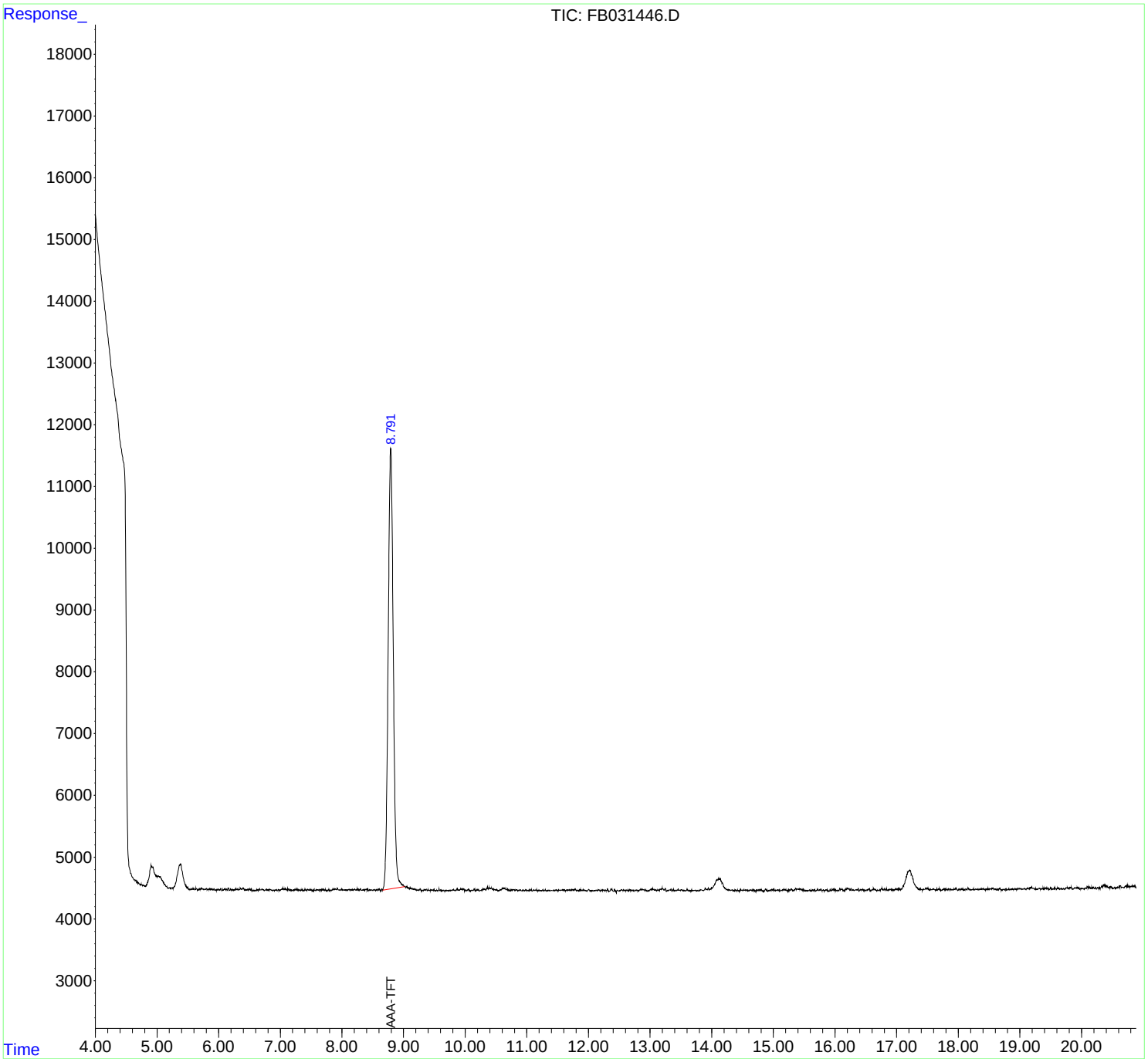
Quantitation Report (QT Reviewed)

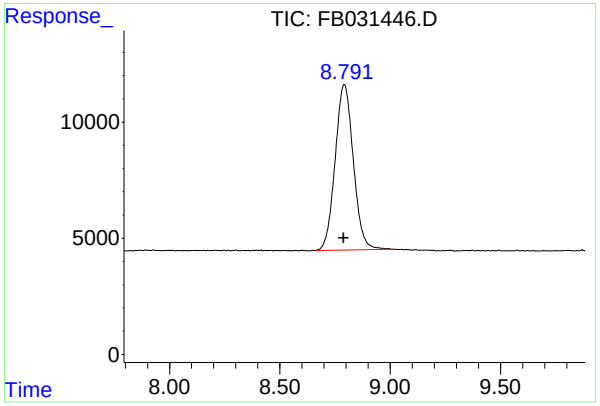
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031446.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1232-17
Misc : 13.25G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
JPP-51.1-012925

Integration File: Calibration.e
Quant Time: Feb 04 00:19:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.792 min
Delta R.T.: 0.003 mi
Response: 409109
Conc: 17.15 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
JPP-51.1-012925

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031446.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 14:40
Sample : Q1232-17
Misc : 13.25G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.657 | 4.621 | 4.733 | BV | 17 | 293 | 0.07% | 0.050% |
| 2 | 4.743 | 4.733 | 4.796 | PV | 23 | 325 | 0.08% | 0.055% |
| 3 | 5.026 | 5.017 | 5.191 | VV | 190 | 10256 | 2.45% | 1.737% |
| 4 | 5.206 | 5.191 | 5.227 | VV | 19 | 245 | 0.06% | 0.042% |
| 5 | 5.248 | 5.227 | 5.258 | PV | 26 | 292 | 0.07% | 0.050% |
| 6 | 5.553 | 5.545 | 5.564 | VV | 22 | 154 | 0.04% | 0.026% |
| 7 | 5.584 | 5.564 | 5.616 | VV | 25 | 437 | 0.10% | 0.074% |
| 8 | 5.634 | 5.616 | 5.660 | VV | 31 | 377 | 0.09% | 0.064% |
| 9 | 5.712 | 5.660 | 5.720 | PV | 29 | 478 | 0.11% | 0.081% |
| 10 | 5.728 | 5.720 | 5.763 | VV | 31 | 515 | 0.12% | 0.087% |
| 11 | 5.772 | 5.763 | 5.785 | VV | 21 | 224 | 0.05% | 0.038% |
| 12 | 5.801 | 5.785 | 5.814 | VV | 29 | 353 | 0.08% | 0.060% |
| 13 | 5.863 | 5.814 | 5.873 | VV | 32 | 665 | 0.16% | 0.113% |
| 14 | 5.895 | 5.873 | 5.905 | VV | 31 | 409 | 0.10% | 0.069% |
| 15 | 5.926 | 5.905 | 5.940 | VV | 31 | 360 | 0.09% | 0.061% |
| 16 | 5.952 | 5.940 | 5.971 | VV | 16 | 189 | 0.05% | 0.032% |
| 17 | 5.986 | 5.971 | 6.007 | VV | 23 | 318 | 0.08% | 0.054% |
| 18 | 6.012 | 6.007 | 6.021 | VV | 19 | 102 | 0.02% | 0.017% |
| 19 | 6.037 | 6.021 | 6.054 | VV | 36 | 334 | 0.08% | 0.057% |
| 20 | 6.101 | 6.054 | 6.117 | PV | 32 | 621 | 0.15% | 0.105% |
| 21 | 6.127 | 6.117 | 6.140 | VV | 30 | 289 | 0.07% | 0.049% |
| 22 | 6.160 | 6.140 | 6.181 | VV | 48 | 656 | 0.16% | 0.111% |
| 23 | 6.196 | 6.181 | 6.212 | VV | 34 | 342 | 0.08% | 0.058% |
| 24 | 6.226 | 6.212 | 6.237 | VV | 23 | 241 | 0.06% | 0.041% |
| 25 | 6.268 | 6.237 | 6.282 | PV | 30 | 469 | 0.11% | 0.079% |
| 26 | 6.289 | 6.282 | 6.302 | VV | 28 | 239 | 0.06% | 0.040% |
| 27 | 6.310 | 6.302 | 6.325 | VV | 30 | 332 | 0.08% | 0.056% |
| 28 | 6.353 | 6.325 | 6.369 | VV | 46 | 721 | 0.17% | 0.122% |
| 29 | 6.399 | 6.369 | 6.430 | VV | 50 | 1079 | 0.26% | 0.183% |
| 30 | 6.450 | 6.430 | 6.457 | VV | 19 | 242 | 0.06% | 0.041% |
| 31 | 6.483 | 6.457 | 6.497 | VV | 25 | 488 | 0.12% | 0.083% |
| 32 | 6.507 | 6.497 | 6.517 | VV | 34 | 273 | 0.07% | 0.046% |
| 33 | 6.531 | 6.517 | 6.554 | VV | 41 | 377 | 0.09% | 0.064% |
| 34 | 6.626 | 6.554 | 6.645 | VV | 20 | 444 | 0.11% | 0.075% |
| 35 | 6.666 | 6.645 | 6.677 | VV | 35 | 376 | 0.09% | 0.064% |
| 36 | 6.709 | 6.677 | 6.742 | VV | 27 | 721 | 0.17% | 0.122% |

rteres

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 37 | 6.783 | 6.742 | 6.810 | VV | 26 | 669 | 0.16% | 0.113% |
| 38 | 6.897 | 6.880 | 6.907 | VV | 18 | 183 | 0.04% | 0.031% |
| 39 | 6.919 | 6.907 | 6.926 | VV | 17 | 142 | 0.03% | 0.024% |
| 40 | 6.939 | 6.926 | 6.956 | VV | 23 | 232 | 0.06% | 0.039% |
| 41 | 6.969 | 6.956 | 7.000 | VV | 26 | 406 | 0.10% | 0.069% |
| 42 | 7.038 | 7.000 | 7.063 | VV | 48 | 1071 | 0.26% | 0.181% |
| 43 | 7.077 | 7.063 | 7.115 | VV | 39 | 848 | 0.20% | 0.144% |
| 44 | 7.122 | 7.115 | 7.151 | VV | 44 | 582 | 0.14% | 0.098% |
| 45 | 7.162 | 7.151 | 7.171 | VV | 31 | 235 | 0.06% | 0.040% |
| 46 | 7.177 | 7.171 | 7.195 | VV | 24 | 193 | 0.05% | 0.033% |
| 47 | 7.204 | 7.195 | 7.209 | VV | 19 | 115 | 0.03% | 0.019% |
| 48 | 7.241 | 7.209 | 7.250 | VV | 28 | 469 | 0.11% | 0.079% |
| 49 | 7.260 | 7.250 | 7.268 | VV | 29 | 261 | 0.06% | 0.044% |
| 50 | 7.277 | 7.268 | 7.287 | VV | 32 | 280 | 0.07% | 0.047% |
| 51 | 7.295 | 7.287 | 7.340 | VV | 30 | 566 | 0.14% | 0.096% |
| 52 | 7.357 | 7.340 | 7.369 | VV | 26 | 317 | 0.08% | 0.054% |
| 53 | 7.378 | 7.369 | 7.390 | VV | 16 | 126 | 0.03% | 0.021% |
| 54 | 7.410 | 7.390 | 7.423 | VV | 34 | 383 | 0.09% | 0.065% |
| 55 | 7.445 | 7.423 | 7.468 | VV | 28 | 571 | 0.14% | 0.097% |
| 56 | 7.477 | 7.468 | 7.483 | VV | 25 | 178 | 0.04% | 0.030% |
| 57 | 7.495 | 7.483 | 7.518 | VV | 30 | 362 | 0.09% | 0.061% |
| 58 | 7.535 | 7.518 | 7.562 | PV | 23 | 334 | 0.08% | 0.057% |
| 59 | 7.615 | 7.562 | 7.629 | VV | 28 | 783 | 0.19% | 0.133% |
| 60 | 7.648 | 7.629 | 7.669 | VV | 30 | 499 | 0.12% | 0.085% |
| 61 | 7.693 | 7.669 | 7.717 | VV | 35 | 656 | 0.16% | 0.111% |
| 62 | 7.733 | 7.717 | 7.757 | VV | 32 | 354 | 0.08% | 0.060% |
| 63 | 7.765 | 7.757 | 7.774 | VV | 22 | 157 | 0.04% | 0.027% |
| 64 | 7.786 | 7.774 | 7.808 | VV | 30 | 351 | 0.08% | 0.059% |
| 65 | 7.827 | 7.808 | 7.835 | VV | 21 | 240 | 0.06% | 0.041% |
| 66 | 7.871 | 7.835 | 7.881 | VV | 37 | 719 | 0.17% | 0.122% |
| 67 | 7.892 | 7.881 | 7.919 | VV | 42 | 714 | 0.17% | 0.121% |
| 68 | 7.927 | 7.919 | 7.952 | VV | 50 | 641 | 0.15% | 0.109% |
| 69 | 7.963 | 7.952 | 7.972 | VV | 25 | 237 | 0.06% | 0.040% |
| 70 | 7.994 | 7.972 | 8.003 | VV | 34 | 402 | 0.10% | 0.068% |
| 71 | 8.011 | 8.003 | 8.028 | VV | 31 | 344 | 0.08% | 0.058% |
| 72 | 8.044 | 8.028 | 8.053 | VV | 25 | 303 | 0.07% | 0.051% |
| 73 | 8.060 | 8.053 | 8.091 | VV | 27 | 452 | 0.11% | 0.077% |
| 74 | 8.117 | 8.091 | 8.145 | VV | 30 | 740 | 0.18% | 0.125% |
| 75 | 8.155 | 8.145 | 8.167 | VV | 30 | 294 | 0.07% | 0.050% |
| 76 | 8.176 | 8.167 | 8.189 | VV | 32 | 277 | 0.07% | 0.047% |
| 77 | 8.208 | 8.189 | 8.239 | VV | 39 | 728 | 0.17% | 0.123% |
| 78 | 8.248 | 8.239 | 8.259 | VV | 36 | 358 | 0.09% | 0.061% |
| 79 | 8.267 | 8.259 | 8.282 | VV | 33 | 319 | 0.08% | 0.054% |
| 80 | 8.301 | 8.282 | 8.318 | VV | 41 | 533 | 0.13% | 0.090% |
| 81 | 8.359 | 8.318 | 8.373 | VV | 30 | 631 | 0.15% | 0.107% |
| 82 | 8.392 | 8.373 | 8.406 | VV | 32 | 577 | 0.14% | 0.098% |
| 83 | 8.415 | 8.406 | 8.442 | VV | 44 | 504 | 0.12% | 0.085% |
| 84 | 8.450 | 8.442 | 8.506 | VV | 24 | 751 | 0.18% | 0.127% |
| 85 | 8.517 | 8.506 | 8.549 | VV | 23 | 465 | 0.11% | 0.079% |
| 86 | 8.566 | 8.549 | 8.584 | VV | 27 | 420 | 0.10% | 0.071% |
| 87 | 8.608 | 8.584 | 8.636 | VV | 37 | 619 | 0.15% | 0.105% |
| 88 | 8.650 | 8.636 | 8.665 | VV | 37 | 421 | 0.10% | 0.071% |
| 89 | 8.792 | 8.665 | 9.013 | VV | 7171 | 419047 | 100.00% | 70.969% |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 90 | 9.023 | 9.013 | 9.040 | VV | 82 | 1182 | 0.28% | 0.200% |
| 91 | 9.054 | 9.040 | 9.064 | VV | 79 | 948 | 0.23% | 0.160% |
| 92 | 9.071 | 9.064 | 9.096 | VV | 61 | 1051 | 0.25% | 0.178% |
| 93 | 9.118 | 9.096 | 9.153 | VV | 57 | 1473 | 0.35% | 0.249% |
| 94 | 9.169 | 9.153 | 9.178 | VV | 39 | 517 | 0.12% | 0.088% |
| 95 | 9.185 | 9.178 | 9.228 | VV | 35 | 693 | 0.17% | 0.117% |
| 96 | 9.239 | 9.228 | 9.247 | VV | 26 | 208 | 0.05% | 0.035% |
| 97 | 9.269 | 9.247 | 9.292 | VV | 34 | 551 | 0.13% | 0.093% |
| 98 | 9.317 | 9.292 | 9.324 | PV | 16 | 203 | 0.05% | 0.034% |
| 99 | 9.333 | 9.324 | 9.341 | VV | 27 | 195 | 0.05% | 0.033% |
| 100 | 9.350 | 9.341 | 9.361 | VV | 23 | 243 | 0.06% | 0.041% |
| 101 | 9.372 | 9.361 | 9.386 | VV | 34 | 371 | 0.09% | 0.063% |
| 102 | 9.397 | 9.386 | 9.412 | VV | 21 | 257 | 0.06% | 0.044% |
| 103 | 9.419 | 9.412 | 9.436 | VV | 17 | 200 | 0.05% | 0.034% |
| 104 | 9.444 | 9.436 | 9.457 | VV | 19 | 210 | 0.05% | 0.036% |
| 105 | 9.467 | 9.457 | 9.486 | VV | 22 | 272 | 0.06% | 0.046% |
| 106 | 9.494 | 9.486 | 9.517 | VV | 36 | 305 | 0.07% | 0.052% |
| 107 | 9.537 | 9.517 | 9.554 | VV | 16 | 234 | 0.06% | 0.040% |
| 108 | 9.577 | 9.554 | 9.591 | VV | 36 | 374 | 0.09% | 0.063% |
| 109 | 9.603 | 9.591 | 9.613 | VV | 25 | 193 | 0.05% | 0.033% |
| 110 | 9.623 | 9.613 | 9.630 | VV | 22 | 114 | 0.03% | 0.019% |
| 111 | 9.643 | 9.630 | 9.662 | VV | 14 | 209 | 0.05% | 0.035% |
| 112 | 9.670 | 9.662 | 9.675 | VV | 11 | 49 | 0.01% | 0.008% |
| 113 | 9.698 | 9.675 | 9.707 | VV | 15 | 201 | 0.05% | 0.034% |
| 114 | 9.717 | 9.707 | 9.740 | VV | 14 | 202 | 0.05% | 0.034% |
| 115 | 9.751 | 9.740 | 9.770 | VV | 15 | 209 | 0.05% | 0.035% |
| 116 | 9.814 | 9.770 | 9.833 | VV | 33 | 618 | 0.15% | 0.105% |
| 117 | 9.846 | 9.833 | 9.855 | VV | 21 | 193 | 0.05% | 0.033% |
| 118 | 9.871 | 9.855 | 9.882 | VV | 50 | 447 | 0.11% | 0.076% |
| 119 | 9.893 | 9.882 | 9.912 | VV | 24 | 323 | 0.08% | 0.055% |
| 120 | 9.932 | 9.912 | 9.967 | VV | 38 | 954 | 0.23% | 0.162% |
| 121 | 9.978 | 9.967 | 9.993 | VV | 40 | 381 | 0.09% | 0.064% |
| 122 | 10.019 | 9.993 | 10.031 | VV | 18 | 313 | 0.07% | 0.053% |
| 123 | 10.055 | 10.031 | 10.090 | VV | 37 | 606 | 0.14% | 0.103% |
| 124 | 10.118 | 10.090 | 10.126 | VV | 17 | 247 | 0.06% | 0.042% |
| 125 | 10.146 | 10.126 | 10.185 | VV | 41 | 568 | 0.14% | 0.096% |
| 126 | 10.205 | 10.185 | 10.227 | VV | 28 | 389 | 0.09% | 0.066% |
| 127 | 10.247 | 10.227 | 10.256 | VV | 14 | 154 | 0.04% | 0.026% |
| 128 | 10.295 | 10.256 | 10.307 | VV | 40 | 707 | 0.17% | 0.120% |
| 129 | 10.317 | 10.307 | 10.336 | VV | 32 | 450 | 0.11% | 0.076% |
| 130 | 10.361 | 10.336 | 10.373 | VV | 73 | 972 | 0.23% | 0.165% |
| 131 | 10.385 | 10.373 | 10.408 | VV | 60 | 955 | 0.23% | 0.162% |
| 132 | 10.424 | 10.408 | 10.445 | VV | 49 | 931 | 0.22% | 0.158% |
| 133 | 10.456 | 10.445 | 10.465 | VV | 45 | 370 | 0.09% | 0.063% |
| 134 | 10.477 | 10.465 | 10.499 | VV | 27 | 432 | 0.10% | 0.073% |
| 135 | 10.509 | 10.499 | 10.552 | VV | 31 | 428 | 0.10% | 0.073% |
| 136 | 10.632 | 10.552 | 10.671 | VV | 48 | 2266 | 0.54% | 0.384% |
| 137 | 10.684 | 10.671 | 10.694 | VV | 45 | 379 | 0.09% | 0.064% |
| 138 | 10.707 | 10.694 | 10.717 | VV | 26 | 195 | 0.05% | 0.033% |
| 139 | 10.753 | 10.717 | 10.762 | VV | 27 | 345 | 0.08% | 0.058% |
| 140 | 10.777 | 10.762 | 10.809 | VV | 27 | 516 | 0.12% | 0.087% |
| 141 | 10.840 | 10.809 | 10.853 | VV | 23 | 411 | 0.10% | 0.070% |

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|---|---|---|---|---|---|---|---|---|
| 142 | 10.884 | 10.853 | 10.916 | VV | 23 | 467 | 0.11% | 0.079% |
| 143 | 10.950 | 10.916 | 10.966 | VV | 19 | 345 | 0.08% | 0.058% |
| 144 | 10.986 | 10.966 | 11.019 | VV | 21 | 359 | 0.09% | 0.061% |
| 145 | 11.028 | 11.019 | 11.035 | VV | 15 | 100 | 0.02% | 0.017% |
| 146 | 11.048 | 11.035 | 11.070 | VV | 28 | 318 | 0.08% | 0.054% |
| 147 | 11.075 | 11.070 | 11.094 | VV | 21 | 121 | 0.03% | 0.021% |
| 148 | 11.111 | 11.094 | 11.127 | VV | 23 | 232 | 0.06% | 0.039% |
| 149 | 11.136 | 11.127 | 11.147 | VV | 17 | 155 | 0.04% | 0.026% |
| 150 | 11.155 | 11.147 | 11.219 | VV | 21 | 419 | 0.10% | 0.071% |
| 151 | 11.231 | 11.219 | 11.244 | VV | 11 | 108 | 0.03% | 0.018% |
| 152 | 11.263 | 11.244 | 11.279 | PV | 25 | 239 | 0.06% | 0.040% |
| 153 | 11.300 | 11.279 | 11.316 | VV | 23 | 187 | 0.04% | 0.032% |
| 154 | 11.326 | 11.316 | 11.345 | PV | 10 | 90 | 0.02% | 0.015% |
| 155 | 11.354 | 11.345 | 11.398 | PB | 15 | 155 | 0.04% | 0.026% |
| 156 | 11.446 | 11.420 | 11.506 | BV | 11 | 299 | 0.07% | 0.051% |
| 157 | 11.519 | 11.506 | 11.562 | PV | 13 | 331 | 0.08% | 0.056% |
| 158 | 11.574 | 11.562 | 11.584 | VV | 21 | 179 | 0.04% | 0.030% |
| 159 | 11.609 | 11.584 | 11.634 | VV | 19 | 375 | 0.09% | 0.064% |
| 160 | 11.643 | 11.634 | 11.658 | VV | 18 | 188 | 0.04% | 0.032% |
| 161 | 11.673 | 11.658 | 11.687 | VV | 25 | 283 | 0.07% | 0.048% |
| 162 | 11.697 | 11.687 | 11.709 | VV | 23 | 220 | 0.05% | 0.037% |
| 163 | 11.736 | 11.709 | 11.749 | VV | 31 | 453 | 0.11% | 0.077% |
| 164 | 11.758 | 11.749 | 11.766 | VV | 29 | 225 | 0.05% | 0.038% |
| 165 | 11.785 | 11.766 | 11.838 | VV | 41 | 835 | 0.20% | 0.141% |
| 166 | 11.876 | 11.838 | 11.902 | VV | 30 | 652 | 0.16% | 0.111% |
| 167 | 11.915 | 11.902 | 11.945 | VV | 29 | 520 | 0.12% | 0.088% |
| 168 | 11.952 | 11.945 | 11.977 | VV | 19 | 259 | 0.06% | 0.044% |
| 169 | 12.003 | 11.977 | 12.025 | VV | 36 | 659 | 0.16% | 0.112% |
| 170 | 12.037 | 12.025 | 12.083 | VV | 19 | 550 | 0.13% | 0.093% |
| 171 | 12.097 | 12.083 | 12.108 | VV | 24 | 267 | 0.06% | 0.045% |
| 172 | 12.131 | 12.108 | 12.141 | VV | 26 | 430 | 0.10% | 0.073% |
| 173 | 12.173 | 12.141 | 12.189 | VV | 37 | 766 | 0.18% | 0.130% |
| 174 | 12.234 | 12.189 | 12.267 | VV | 38 | 1251 | 0.30% | 0.212% |
| 175 | 12.277 | 12.267 | 12.287 | VV | 36 | 330 | 0.08% | 0.056% |
| 176 | 12.310 | 12.287 | 12.338 | VV | 58 | 879 | 0.21% | 0.149% |
| 177 | 12.365 | 12.338 | 12.410 | VV | 55 | 1330 | 0.32% | 0.225% |
| 178 | 12.423 | 12.410 | 12.456 | VV | 52 | 586 | 0.14% | 0.099% |
| 179 | 12.469 | 12.456 | 12.492 | PV | 37 | 595 | 0.14% | 0.101% |
| 180 | 12.504 | 12.492 | 12.510 | VV | 28 | 276 | 0.07% | 0.047% |
| 181 | 12.539 | 12.510 | 12.564 | VV | 45 | 1115 | 0.27% | 0.189% |
| 182 | 12.572 | 12.564 | 12.583 | VV | 43 | 355 | 0.08% | 0.060% |
| 183 | 12.595 | 12.583 | 12.604 | VV | 32 | 375 | 0.09% | 0.064% |
| 184 | 12.622 | 12.604 | 12.654 | VV | 41 | 989 | 0.24% | 0.167% |
| 185 | 12.674 | 12.654 | 12.684 | VV | 41 | 627 | 0.15% | 0.106% |
| 186 | 12.694 | 12.684 | 12.707 | VV | 38 | 453 | 0.11% | 0.077% |
| 187 | 12.726 | 12.707 | 12.738 | VV | 38 | 529 | 0.13% | 0.090% |
| 188 | 12.756 | 12.738 | 12.773 | VV | 37 | 596 | 0.14% | 0.101% |
| 189 | 12.783 | 12.773 | 12.816 | VV | 39 | 756 | 0.18% | 0.128% |
| 190 | 12.843 | 12.816 | 12.853 | VV | 44 | 797 | 0.19% | 0.135% |
| 191 | 12.865 | 12.853 | 12.896 | VV | 53 | 1062 | 0.25% | 0.180% |
| 192 | 12.903 | 12.896 | 12.917 | VV | 48 | 475 | 0.11% | 0.080% |
| 193 | 12.931 | 12.917 | 12.954 | VV | 47 | 667 | 0.16% | 0.113% |
| 194 | 12.968 | 12.954 | 12.975 | VV | 25 | 262 | 0.06% | 0.044% |

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|---|---|---|---|---|---|---|---|---|
| 195 | 13.015 | 12.975 | 13.030 | VV | 54 | 1237 | 0.30% | 0.209% |
| 196 | 13.043 | 13.030 | 13.052 | VV | 59 | 654 | 0.16% | 0.111% |
| 197 | 13.064 | 13.052 | 13.081 | VV | 52 | 709 | 0.17% | 0.120% |
| 198 | 13.091 | 13.081 | 13.105 | VV | 41 | 472 | 0.11% | 0.080% |
| 199 | 13.116 | 13.105 | 13.128 | VV | 36 | 420 | 0.10% | 0.071% |
| 200 | 13.139 | 13.128 | 13.153 | VV | 41 | 498 | 0.12% | 0.084% |
| 201 | 13.195 | 13.153 | 13.232 | VV | 64 | 2216 | 0.53% | 0.375% |
| 202 | 13.247 | 13.232 | 13.265 | VV | 60 | 800 | 0.19% | 0.135% |
| 203 | 13.321 | 13.265 | 13.331 | VV | 37 | 1127 | 0.27% | 0.191% |
| 204 | 13.342 | 13.331 | 13.355 | VV | 51 | 514 | 0.12% | 0.087% |
| 205 | 13.378 | 13.355 | 13.391 | VV | 44 | 618 | 0.15% | 0.105% |
| 206 | 13.411 | 13.391 | 13.420 | VV | 33 | 446 | 0.11% | 0.075% |
| 207 | 13.428 | 13.420 | 13.435 | VV | 31 | 248 | 0.06% | 0.042% |
| 208 | 13.457 | 13.435 | 13.467 | VV | 58 | 693 | 0.17% | 0.117% |
| 209 | 13.472 | 13.467 | 13.492 | VV | 33 | 438 | 0.10% | 0.074% |
| 210 | 13.509 | 13.492 | 13.532 | VV | 42 | 827 | 0.20% | 0.140% |
| 211 | 13.550 | 13.532 | 13.572 | VV | 33 | 618 | 0.15% | 0.105% |
| 212 | 13.601 | 13.572 | 13.625 | VV | 50 | 953 | 0.23% | 0.161% |
| 213 | 13.683 | 13.625 | 13.692 | VV | 33 | 987 | 0.24% | 0.167% |
| 214 | 13.730 | 13.692 | 13.763 | VV | 32 | 1089 | 0.26% | 0.184% |
| 215 | 13.776 | 13.763 | 13.786 | VV | 28 | 315 | 0.08% | 0.053% |
| 216 | 13.800 | 13.786 | 13.808 | VV | 34 | 332 | 0.08% | 0.056% |
| 217 | 13.823 | 13.808 | 13.856 | VV | 39 | 894 | 0.21% | 0.151% |
| 218 | 13.864 | 13.856 | 13.872 | VV | 29 | 273 | 0.07% | 0.046% |
| 219 | 13.896 | 13.872 | 13.934 | VV | 68 | 1599 | 0.38% | 0.271% |
| 220 | 13.946 | 13.934 | 13.959 | VV | 64 | 746 | 0.18% | 0.126% |
| 221 | 14.084 | 13.959 | 14.092 | VV | 203 | 8050 | 1.92% | 1.363% |
| 222 | 14.131 | 14.092 | 14.265 | VV | 221 | 13184 | 3.15% | 2.233% |
| 223 | 14.274 | 14.265 | 14.285 | VV | 41 | 391 | 0.09% | 0.066% |
| 224 | 14.293 | 14.285 | 14.312 | VV | 37 | 480 | 0.11% | 0.081% |
| 225 | 14.333 | 14.312 | 14.347 | VV | 40 | 588 | 0.14% | 0.100% |
| 226 | 14.364 | 14.347 | 14.371 | VV | 29 | 289 | 0.07% | 0.049% |
| 227 | 14.380 | 14.371 | 14.404 | VV | 34 | 546 | 0.13% | 0.092% |
| 228 | 14.423 | 14.404 | 14.437 | VV | 30 | 459 | 0.11% | 0.078% |
| 229 | 14.444 | 14.437 | 14.451 | VV | 26 | 168 | 0.04% | 0.028% |
| 230 | 14.463 | 14.451 | 14.485 | VV | 39 | 588 | 0.14% | 0.100% |
| 231 | 14.491 | 14.485 | 14.507 | VV | 34 | 352 | 0.08% | 0.060% |
| 232 | 14.521 | 14.507 | 14.529 | VV | 36 | 385 | 0.09% | 0.065% |
| 233 | 14.541 | 14.529 | 14.560 | VV | 32 | 506 | 0.12% | 0.086% |
| 234 | 14.570 | 14.560 | 14.590 | VV | 39 | 472 | 0.11% | 0.080% |
| 235 | 14.621 | 14.590 | 14.668 | VV | 35 | 1185 | 0.28% | 0.201% |
| 236 | 14.676 | 14.668 | 14.688 | VV | 36 | 333 | 0.08% | 0.056% |
| 237 | 14.693 | 14.688 | 14.702 | VV | 26 | 155 | 0.04% | 0.026% |
| 238 | 14.730 | 14.702 | 14.754 | VV | 36 | 764 | 0.18% | 0.129% |
| 239 | 14.765 | 14.754 | 14.778 | VV | 43 | 436 | 0.10% | 0.074% |
| 240 | 14.801 | 14.778 | 14.852 | VV | 39 | 913 | 0.22% | 0.155% |
| 241 | 14.874 | 14.852 | 14.925 | VV | 46 | 1038 | 0.25% | 0.176% |
| 242 | 14.935 | 14.925 | 14.944 | VV | 24 | 244 | 0.06% | 0.041% |
| 243 | 14.975 | 14.944 | 14.983 | VV | 44 | 721 | 0.17% | 0.122% |
| 244 | 15.011 | 14.983 | 15.041 | VV | 47 | 1050 | 0.25% | 0.178% |
| 245 | 15.063 | 15.041 | 15.089 | VV | 33 | 790 | 0.19% | 0.134% |
| 246 | 15.096 | 15.089 | 15.107 | VV | 40 | 283 | 0.07% | 0.048% |

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|---|---|---|---|---|---|---|---|---|
| 247 | 15.125 | 15.107 | 15.137 | VV | 28 | 400 | 0.10% | 0.068% |
| 248 | 15.179 | 15.137 | 15.193 | VV | 40 | 1064 | 0.25% | 0.180% |
| 249 | 15.203 | 15.193 | 15.242 | VV | 40 | 683 | 0.16% | 0.116% |
| 250 | 15.253 | 15.242 | 15.275 | PV | 29 | 462 | 0.11% | 0.078% |
| 251 | 15.288 | 15.275 | 15.315 | VV | 43 | 762 | 0.18% | 0.129% |
| 252 | 15.360 | 15.315 | 15.378 | VV | 55 | 1259 | 0.30% | 0.213% |
| 253 | 15.384 | 15.378 | 15.434 | VV | 49 | 1398 | 0.33% | 0.237% |
| 254 | 15.440 | 15.434 | 15.467 | VV | 51 | 760 | 0.18% | 0.129% |
| 255 | 15.488 | 15.467 | 15.513 | VV | 45 | 691 | 0.16% | 0.117% |
| 256 | 15.536 | 15.513 | 15.567 | VV | 20 | 494 | 0.12% | 0.084% |
| 257 | 15.583 | 15.567 | 15.606 | VV | 31 | 464 | 0.11% | 0.079% |
| 258 | 15.636 | 15.606 | 15.646 | VV | 32 | 499 | 0.12% | 0.085% |
| 259 | 15.672 | 15.646 | 15.692 | VV | 34 | 563 | 0.13% | 0.095% |
| 260 | 15.723 | 15.692 | 15.740 | VV | 39 | 670 | 0.16% | 0.113% |
| 261 | 15.773 | 15.740 | 15.801 | VV | 45 | 946 | 0.23% | 0.160% |
| 262 | 15.813 | 15.801 | 15.846 | VV | 34 | 531 | 0.13% | 0.090% |
| 263 | 15.855 | 15.846 | 15.869 | VV | 31 | 350 | 0.08% | 0.059% |
| 264 | 15.876 | 15.869 | 15.907 | VV | 28 | 267 | 0.06% | 0.045% |
| 265 | 15.923 | 15.907 | 15.934 | VV | 39 | 296 | 0.07% | 0.050% |
| 266 | 15.957 | 15.934 | 15.968 | VV | 37 | 465 | 0.11% | 0.079% |
| 267 | 15.979 | 15.968 | 16.023 | VV | 44 | 798 | 0.19% | 0.135% |
| 268 | 16.037 | 16.023 | 16.047 | VV | 21 | 240 | 0.06% | 0.041% |
| 269 | 16.052 | 16.047 | 16.059 | VV | 19 | 110 | 0.03% | 0.019% |
| 270 | 16.080 | 16.059 | 16.133 | VV | 53 | 1325 | 0.32% | 0.224% |
| 271 | 16.143 | 16.133 | 16.152 | VV | 25 | 185 | 0.04% | 0.031% |
| 272 | 16.178 | 16.152 | 16.192 | VV | 38 | 692 | 0.17% | 0.117% |
| 273 | 16.210 | 16.192 | 16.224 | VV | 51 | 874 | 0.21% | 0.148% |
| 274 | 16.231 | 16.224 | 16.249 | VV | 49 | 505 | 0.12% | 0.085% |
| 275 | 16.260 | 16.249 | 16.274 | VV | 47 | 462 | 0.11% | 0.078% |
| 276 | 16.294 | 16.274 | 16.315 | VV | 26 | 500 | 0.12% | 0.085% |
| 277 | 16.339 | 16.315 | 16.349 | VV | 27 | 434 | 0.10% | 0.073% |
| 278 | 16.360 | 16.349 | 16.368 | VV | 28 | 278 | 0.07% | 0.047% |
| 279 | 16.378 | 16.368 | 16.392 | VV | 47 | 352 | 0.08% | 0.060% |
| | | | Sum of corrected areas: | | | 590465 | | |

FB011525.M Tue Feb 04 00:47:42 2025

# CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

| Calibration Sequence : FB011525 | | Test : Gasoline Range Organics | |
|---|---|---|---|
| **Concentration (PPB)** | **Area Count** | **Reference Factor** | **File ID** |
| 45 | 1619248 | 35983 | FB031307.D |
| 90 | 2849383 | 31660 | FB031308.D |
| 180 | 5927461 | 32930 | FB031309.D |
| 450 | 17402832 | 38673 | FB031310.D |
| 900 | 36014388 | 40016 | FB031311.D |

**AVG RF :** 35852 **% RSD : 10.001** **AVG RT : 8.7886**

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031307.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 10:20
Operator : YP/AJ
Sample : 5 GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
5 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:20:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:19:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.786 | 115906 | 4.680 | ng/ml |
| | Target Compounds | | | | |
| 1) t | 2-Methylpentane | 4.718 | 233598 | 7.655 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.413 | 275493 | 7.888 | ng/ml |
| 3) t | n-Heptane | 7.745 | 76823 | 2.289 | ng/ml |
| 4) t | Benzene | 7.885 | 96940 | 2.457 | ng/ml |
| 6) t | Toluene | 10.613 | 281739 | 7.767 | ng/ml |
| 7) t | Ethylbenzene | 13.049 | 90664 | 2.859 | ng/ml |
| 8) t | m-Xylene | 13.183 | 196650 | 5.784 | ng/ml |
| 9) t | O-Xylene | 13.911 | 197897 | 6.226 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.188 | 169444 | 6.606 | ng/ml |

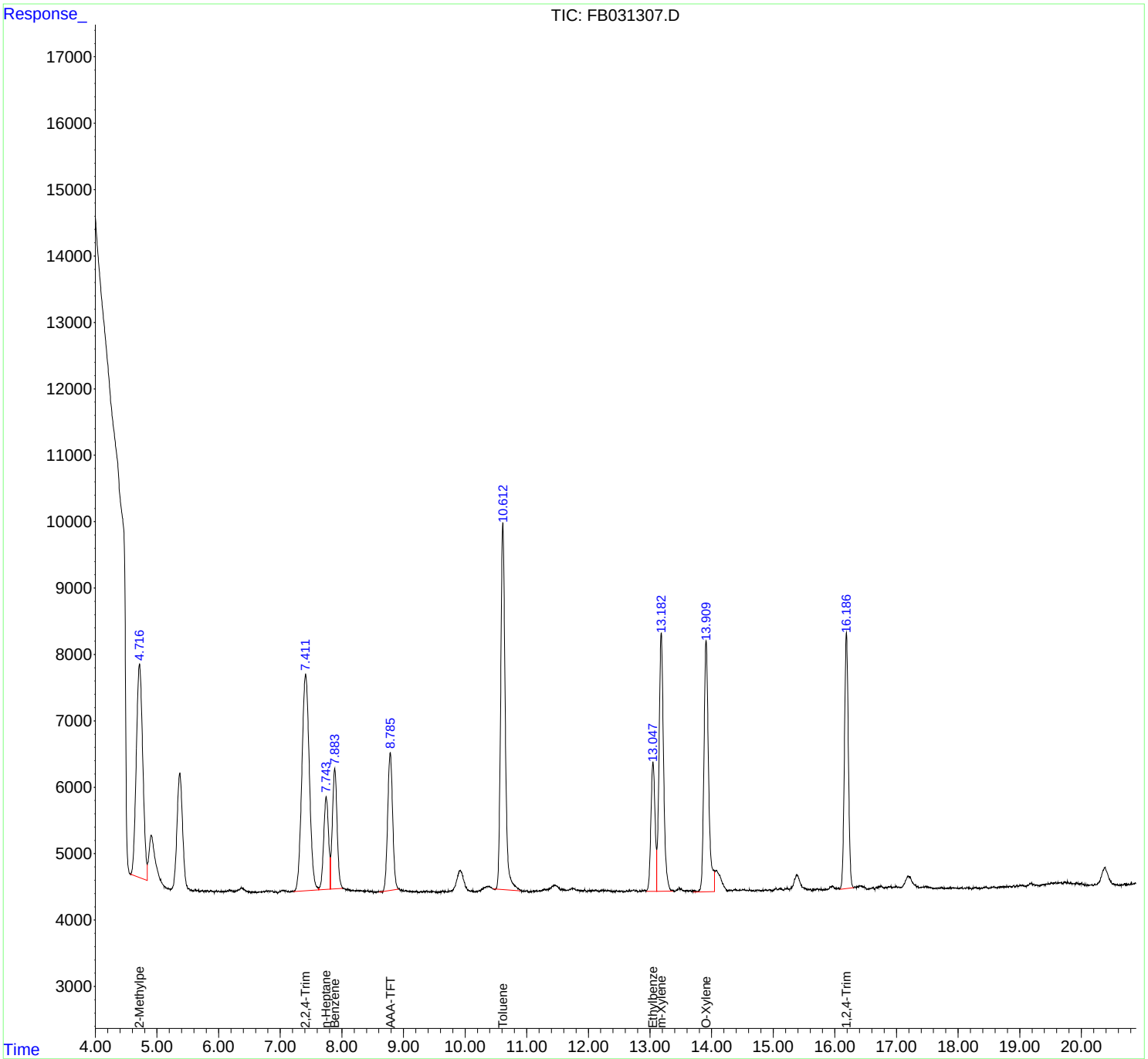
(f)=RT Delta > 1/2 Window (m)=manual int.

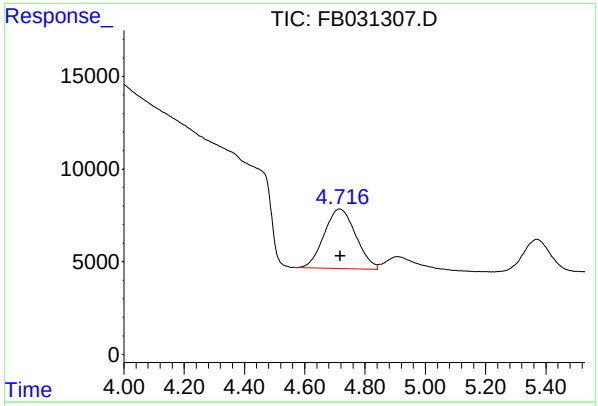
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031307.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 10:20
Operator : YP/AJ
Sample : 5 GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
5 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:20:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:19:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

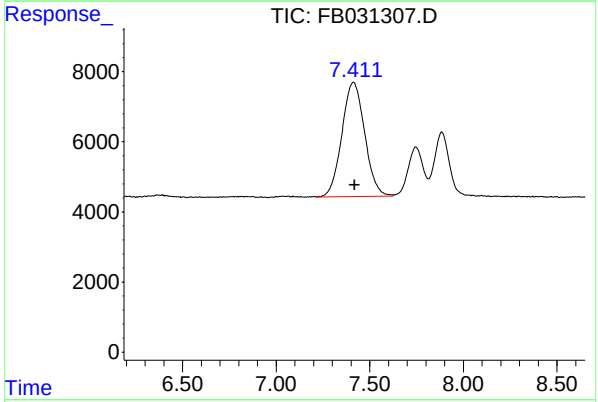





#1 2-Methylpentane

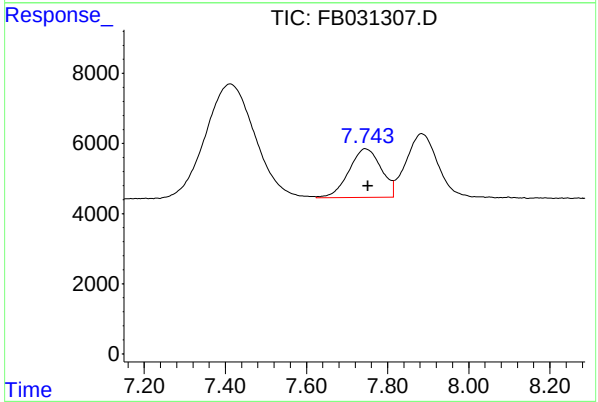
R.T.: 4.718 min
Delta R.T.: 0.000 min
Response: 233598
Conc: 7.65 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
5 GRO STD



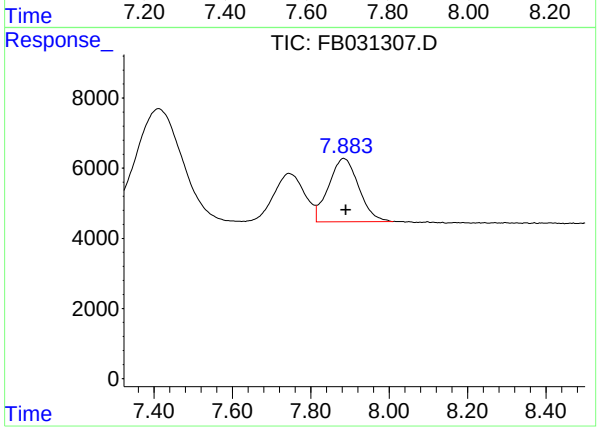

#2 2,2,4-Trimethylpentane

R.T.: 7.413 min
Delta R.T.: -0.007 min
Response: 275493
Conc: 7.89 ng/ml



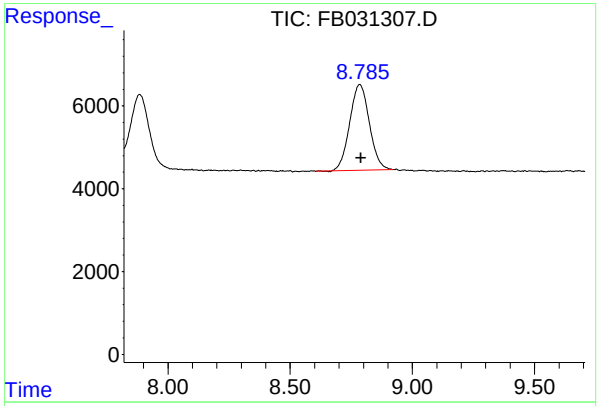

#3 n-Heptane

R.T.: 7.745 min
Delta R.T.: -0.006 min
Response: 76823
Conc: 2.29 ng/ml




#4 Benzene

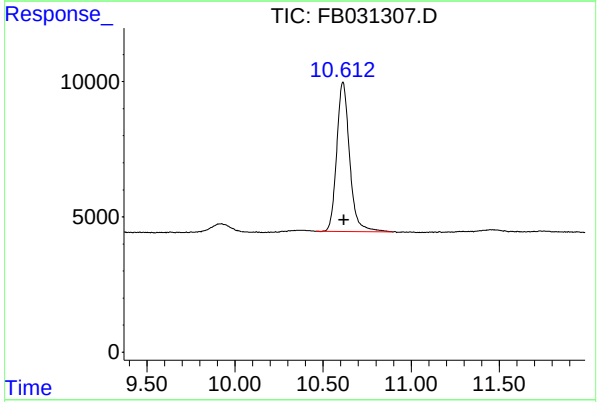
R.T.: 7.885 min
Delta R.T.: -0.005 min
Response: 96940
Conc: 2.46 ng/ml




#5 AAA-TFT

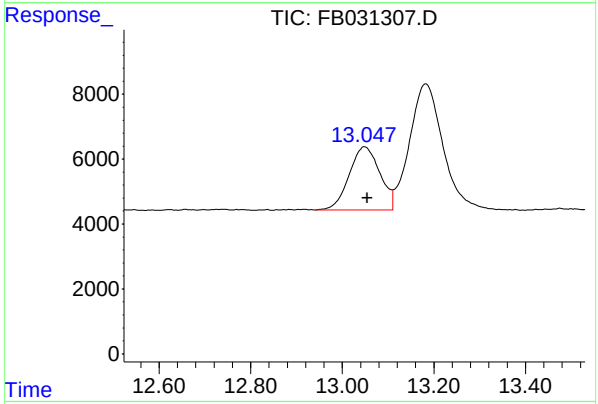
R.T.: 8.786 min
Delta R.T.: -0.003 min
Response: 115906
Conc: 4.68 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
5 GRO STD



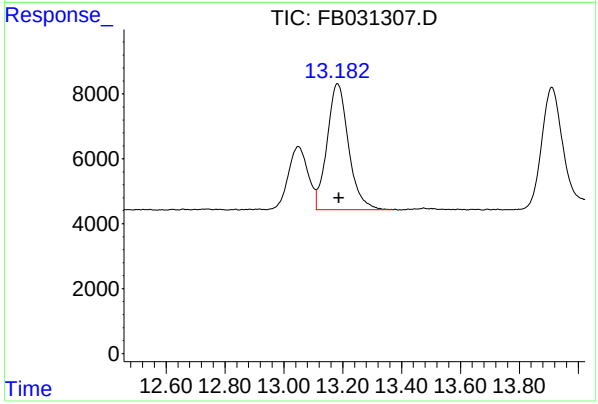

#6 Toluene

R.T.: 10.613 min
Delta R.T.: -0.005 min
Response: 281739
Conc: 7.77 ng/ml



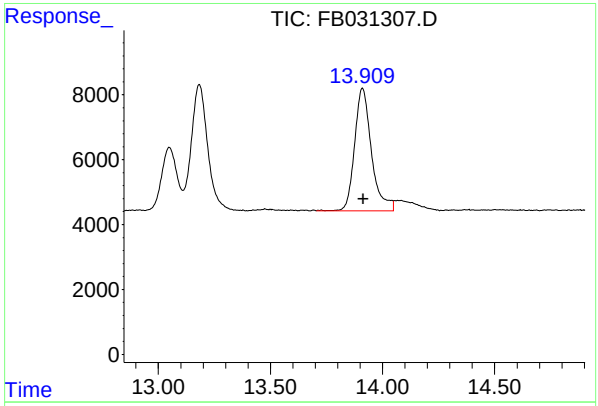

#7 Ethylbenzene

R.T.: 13.049 min
Delta R.T.: -0.005 min
Response: 90664
Conc: 2.86 ng/ml




#8 m-Xylene

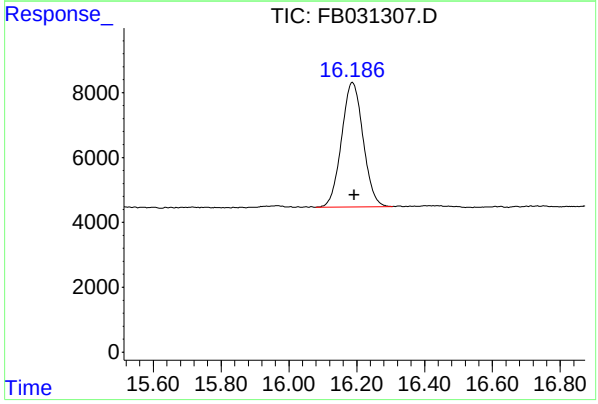
R.T.: 13.183 min
Delta R.T.: -0.005 min
Response: 196650
Conc: 5.78 ng/ml




#9 O-Xylene

R.T.: 13.911 min
Delta R.T.: -0.005 min
Response: 197897
Conc: 6.23 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
5 GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.188 min
Delta R.T.: -0.004 min
Response: 169444
Conc: 6.61 ng/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031307.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 10:20
Sample : 5 GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.718 | 4.565 | 4.841 | BV | 3212 | 233598 | 82.91% | 13.463% |
| 2 | 7.413 | 7.213 | 7.624 | PV | 3262 | 275493 | 97.78% | 15.877% |
| 3 | 7.745 | 7.624 | 7.814 | VV | 1396 | 76823 | 27.27% | 4.427% |
| 4 | 7.885 | 7.814 | 8.011 | VV | 1811 | 96940 | 34.41% | 5.587% |
| 5 | 8.786 | 8.606 | 8.921 | PV | 2076 | 115906 | 41.14% | 6.680% |
| 6 | 10.613 | 10.460 | 10.897 | BV | 5526 | 281739 | 100.00% | 16.237% |
| 7 | 13.049 | 12.941 | 13.110 | VV | 1950 | 90664 | 32.18% | 5.225% |
| 8 | 13.183 | 13.110 | 13.371 | VV | 3888 | 196650 | 69.80% | 11.333% |
| 9 | 13.911 | 13.705 | 14.048 | PV | 3780 | 197897 | 70.24% | 11.405% |
| 10 | 16.188 | 16.079 | 16.306 | PV | 3845 | 169444 | 60.14% | 9.765% |

Sum of corrected areas: 1735154

FB011525.M Wed Jan 15 13:12:02 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031308.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 10:47
Operator : YP/AJ
Sample : 10 GRO STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
10 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:21:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:19:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.789 | 244936 | 10.217 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.720 | 431842 | 14.006 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.419 | 507274 | 14.158 | ng/ml |
| 3) t | n-Heptane | 7.753 | 160152 | 4.983 | ng/ml |
| 4) t | Benzene | 7.890 | 182595 | 4.668 | ng/ml |
| 6) t | Toluene | 10.617 | 517285 | 14.011 | ng/ml |
| 7) t | Ethylbenzene | 13.052 | 152171 | 4.477 | ng/ml |
| 8) t | m-Xylene | 13.186 | 328529 | 8.961 | ng/ml |
| 9) t | O-Xylene | 13.914 | 316418 | 8.867 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.191 | 253117 | 8.502 | ng/ml |

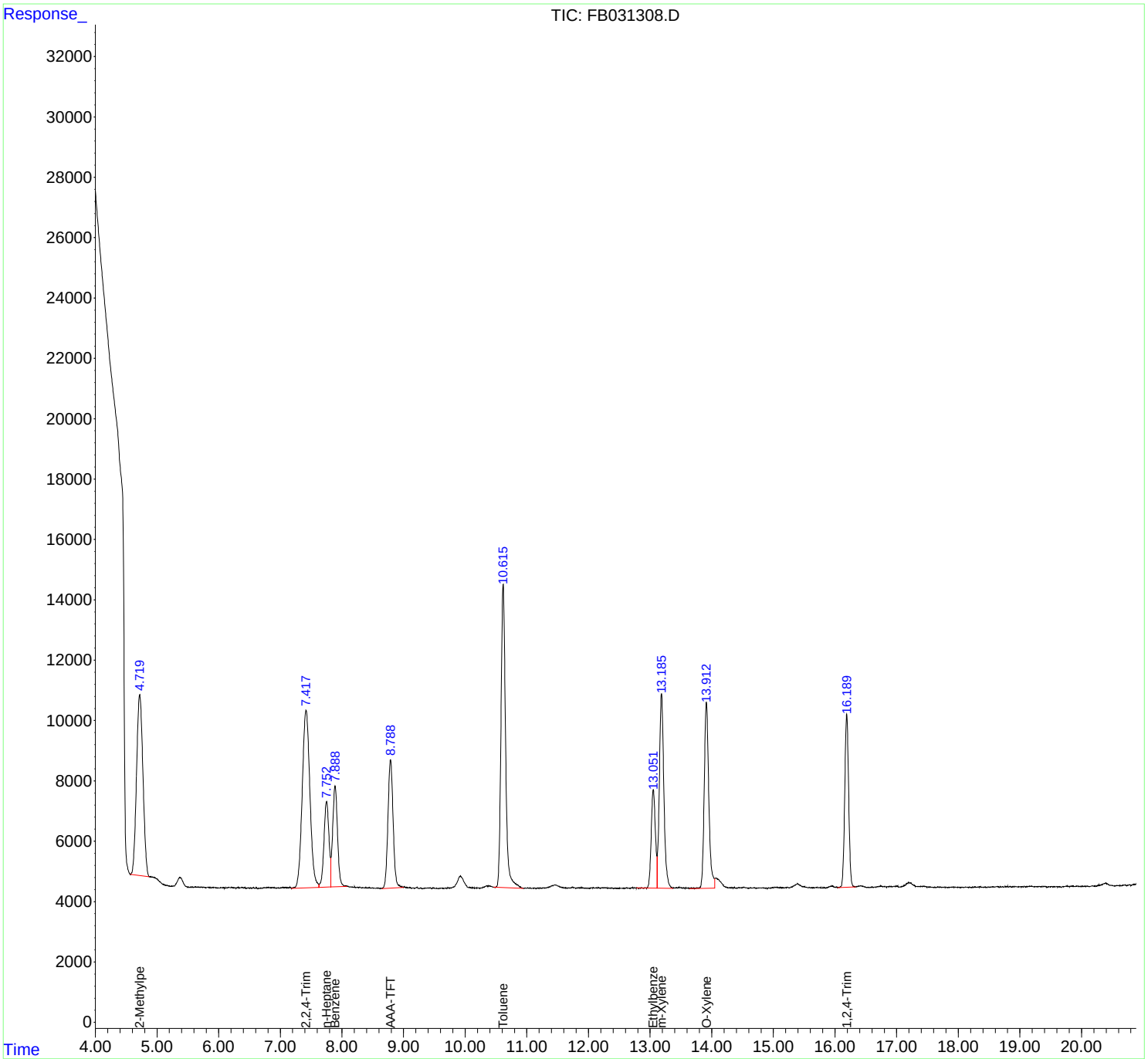
(f)=RT Delta > 1/2 Window (m)=manual int.

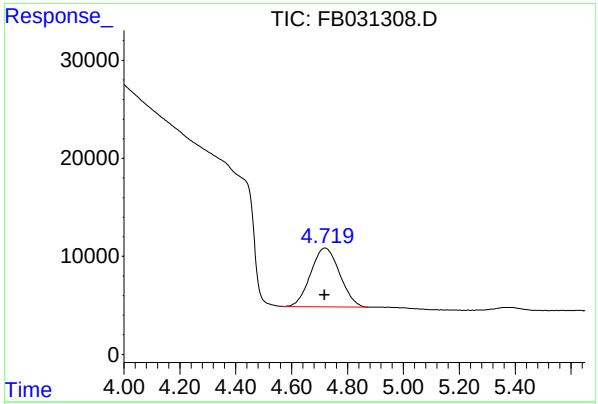
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031308.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 10:47
Operator : YP/AJ
Sample : 10 GRO STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
10 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:21:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:19:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

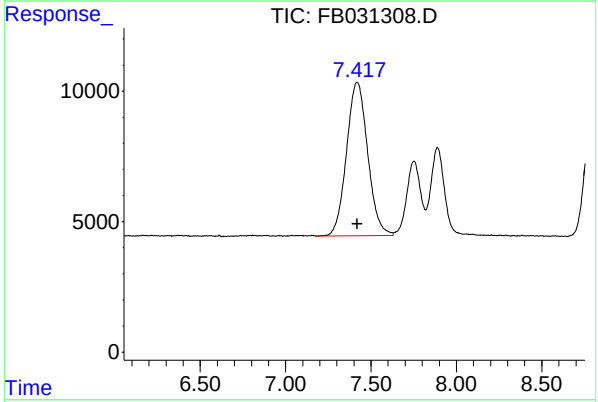





#1 2-Methylpentane

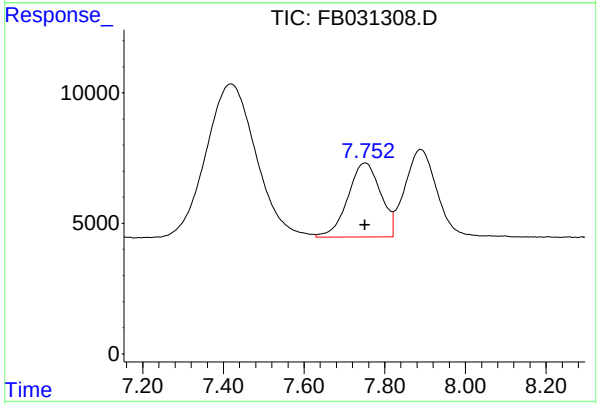
R.T.: 4.720 min
Delta R.T.: 0.002 mi
Response: 431842
Conc: 14.01 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
10 GRO STD



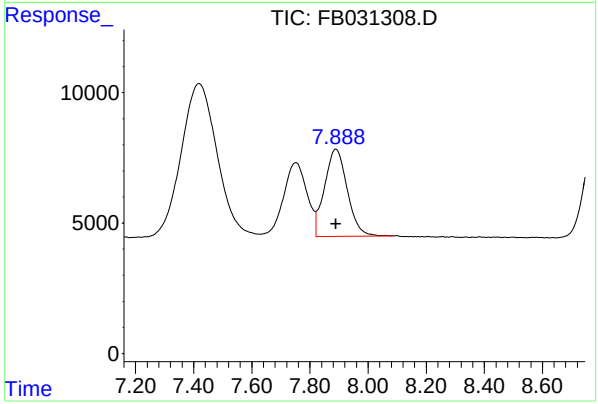

#2 2,2,4-Trimethylpentane

R.T.: 7.419 min
Delta R.T.: 0.000 min
Response: 507274
Conc: 14.16 ng/ml



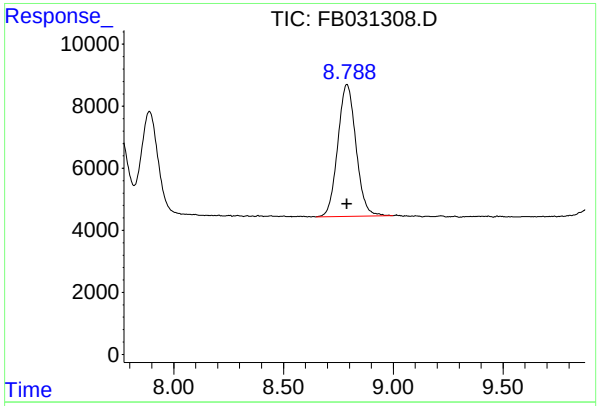

#3 n-Heptane

R.T.: 7.753 min
Delta R.T.: 0.002 min
Response: 160152
Conc: 4.98 ng/ml




#4 Benzene

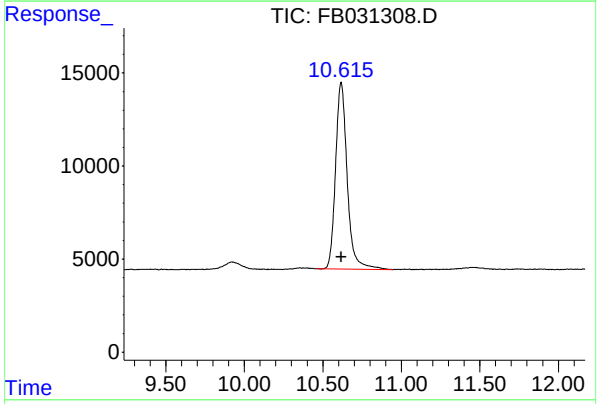
R.T.: 7.890 min
Delta R.T.: 0.000 min
Response: 182595
Conc: 4.67 ng/ml




#5 AAA-TFT

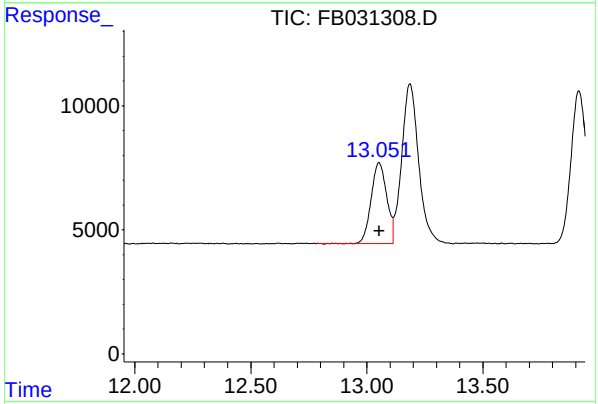
R.T.: 8.789 min
Delta R.T.: 0.000 min
Response: 244936
Conc: 10.22 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
10 GRO STD



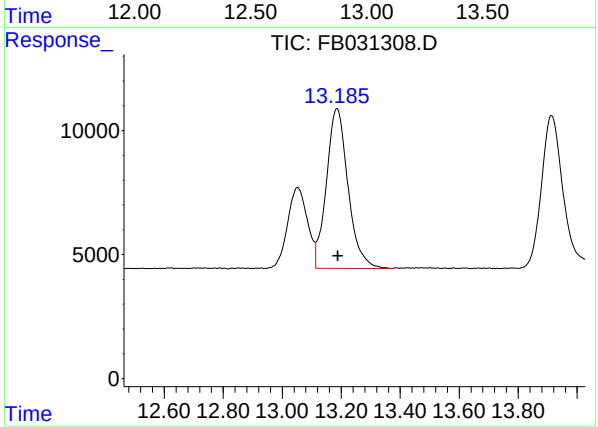

#6 Toluene

R.T.: 10.617 min
Delta R.T.: 0.000 min
Response: 517285
Conc: 14.01 ng/ml



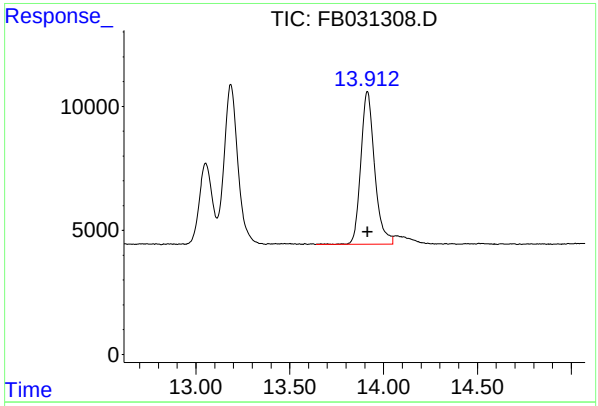

#7 Ethylbenzene

R.T.: 13.052 min
Delta R.T.: -0.002 min
Response: 152171
Conc: 4.48 ng/ml




#8 m-Xylene

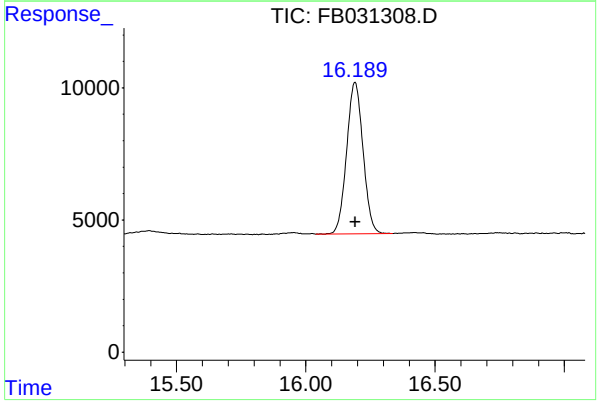
R.T.: 13.186 min
Delta R.T.: -0.002 min
Response: 328529
Conc: 8.96 ng/ml




#9 O-Xylene

R.T.: 13.914 min
Delta R.T.: -0.002 min
Response: 316418
Conc: 8.87 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
10 GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.191 min
Delta R.T.: -0.001 min
Response: 253117
Conc: 8.50 ng/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031308.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 10:47
Sample : 10 GRO STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.720 | 4.565 | 4.875 | BV | 6002 | 431842 | 83.48% | 13.956% |
| 2 | 7.419 | 7.179 | 7.629 | PV | 5886 | 507274 | 98.06% | 16.394% |
| 3 | 7.753 | 7.629 | 7.820 | VV | 2841 | 160152 | 30.96% | 5.176% |
| 4 | 7.890 | 7.820 | 8.086 | VV | 3346 | 182595 | 35.30% | 5.901% |
| 5 | 8.789 | 8.648 | 8.999 | PV | 4259 | 244936 | 47.35% | 7.916% |
| 6 | 10.617 | 10.457 | 10.947 | BV | 10045 | 517285 | 100.00% | 16.717% |
| 7 | 13.052 | 12.781 | 13.113 | BV | 3267 | 152171 | 29.42% | 4.918% |
| 8 | 13.186 | 13.113 | 13.374 | VV | 6447 | 328529 | 63.51% | 10.617% |
| 9 | 13.914 | 13.639 | 14.049 | PV | 6166 | 316418 | 61.17% | 10.226% |
| 10 | 16.191 | 16.038 | 16.336 | PV | 5740 | 253117 | 48.93% | 8.180% |

Sum of corrected areas: 3094319

FB011525.M Wed Jan 15 13:12:21 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031309.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 11:13
Operator : YP/AJ
Sample : 20 GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:19:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:19:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.790 | 495333 | 20.000 | ng/ml |
| | Target Compounds | | | | |
| 1) t | 2-Methylpentane | 4.718 | 915530 | 30.000 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.420 | 1047795 | 30.000 | ng/ml |
| 3) t | n-Heptane | 7.751 | 335553 | 10.000 | ng/ml |
| 4) t | Benzene | 7.890 | 394556 | 10.000 | ng/ml |
| 6) t | Toluene | 10.618 | 1088237 | 30.000 | ng/ml |
| 7) t | Ethylbenzene | 13.054 | 317078 | 10.000 | ng/ml |
| 8) t | m-Xylene | 13.188 | 679935 | 20.000 | ng/ml |
| 9) t | O-Xylene | 13.916 | 635755 | 20.000 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.192 | 513022 | 20.000 | ng/ml |

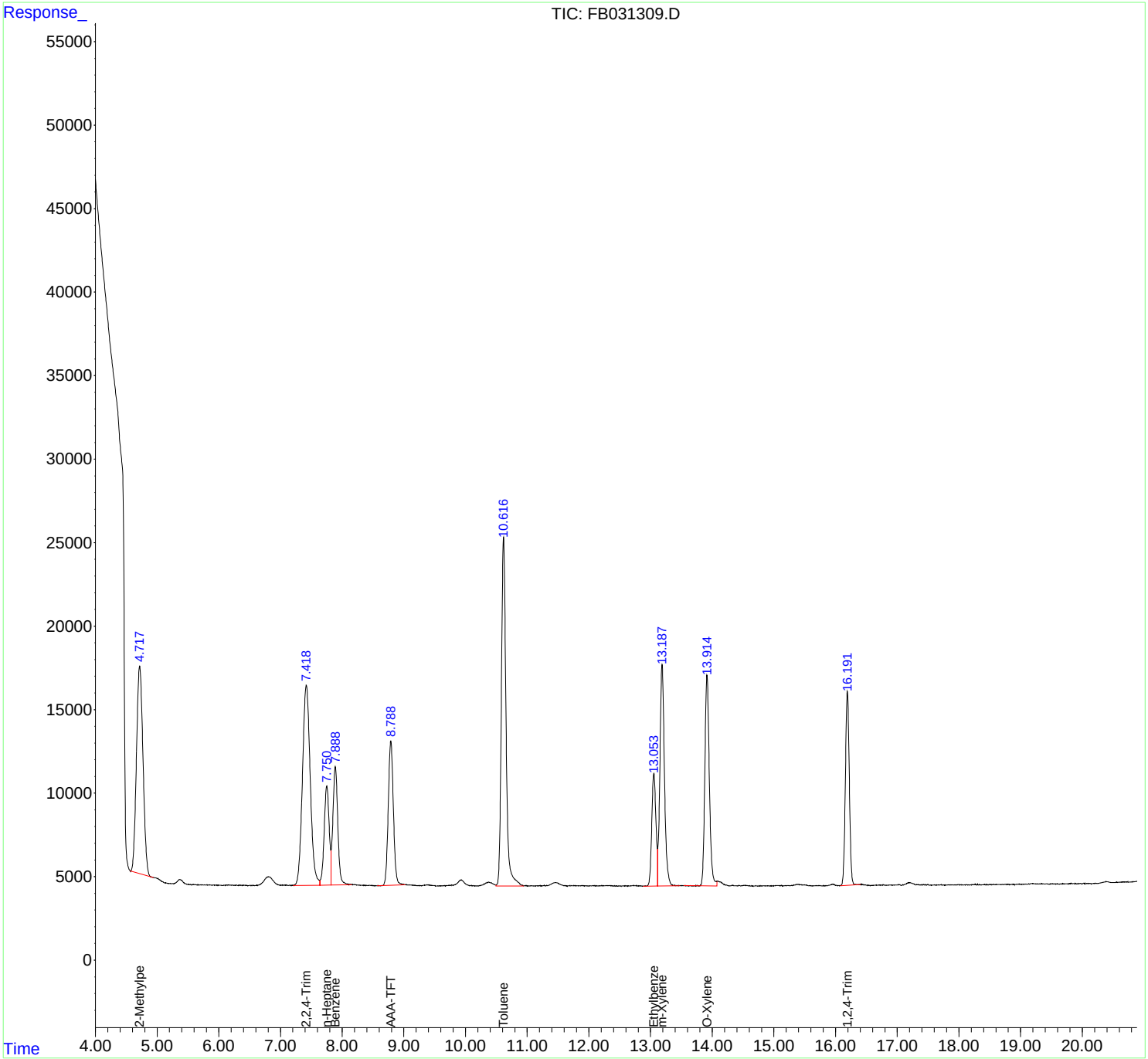
(f)=RT Delta > 1/2 Window (m)=manual int.

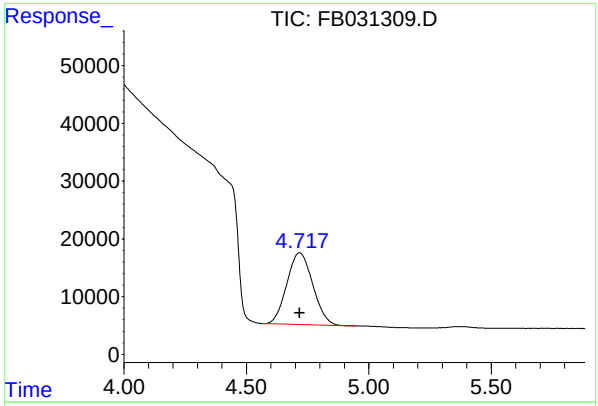
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031309.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 11:13
Operator : YP/AJ
Sample : 20 GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:19:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:19:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

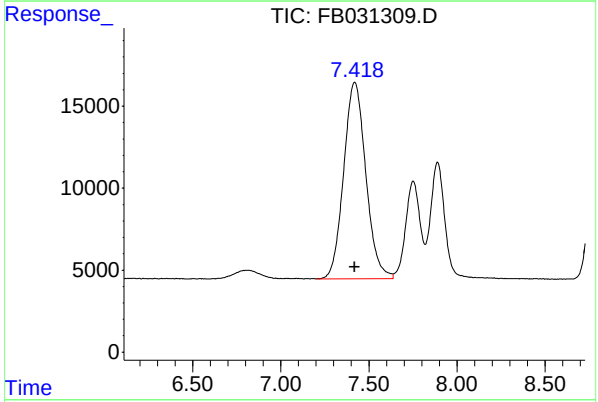





#1 2-Methylpentane

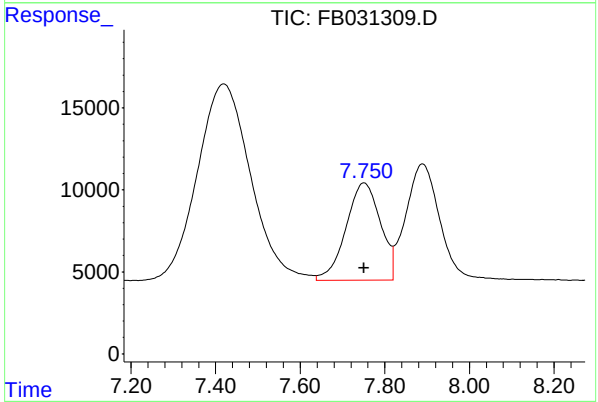
R.T.: 4.718 min
Delta R.T.: 0.000 min
Response: 915530
Conc: 30.00 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 GRO STD



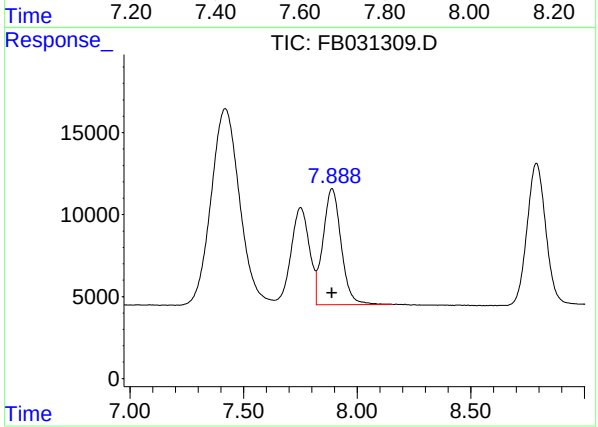

#2 2,2,4-Trimethylpentane

R.T.: 7.420 min
Delta R.T.: 0.000 min
Response: 1047795
Conc: 30.00 ng/ml



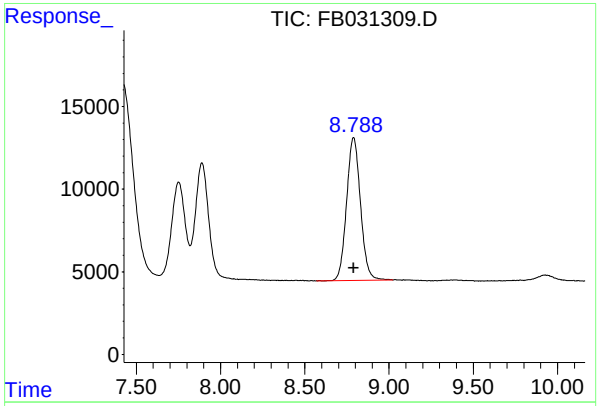

#3 n-Heptane

R.T.: 7.751 min
Delta R.T.: 0.000 min
Response: 335553
Conc: 10.00 ng/ml




#4 Benzene

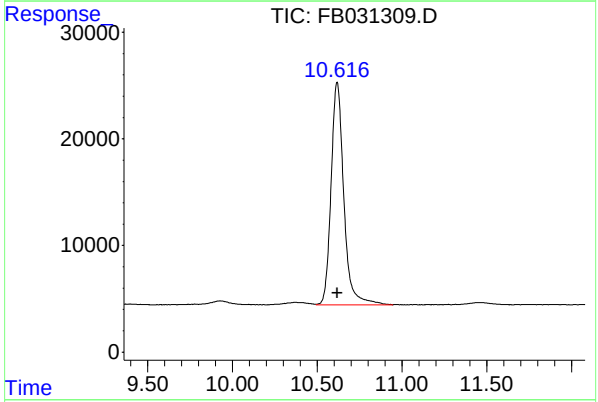
R.T.: 7.890 min
Delta R.T.: 0.000 min
Response: 394556
Conc: 10.00 ng/ml




#5 AAA-TFT

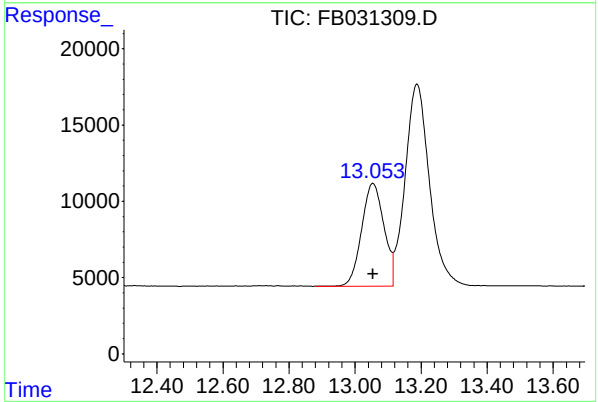
R.T.: 8.790 min
Delta R.T.: 0.000 min
Response: 495333
Conc: 20.00 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 GRO STD



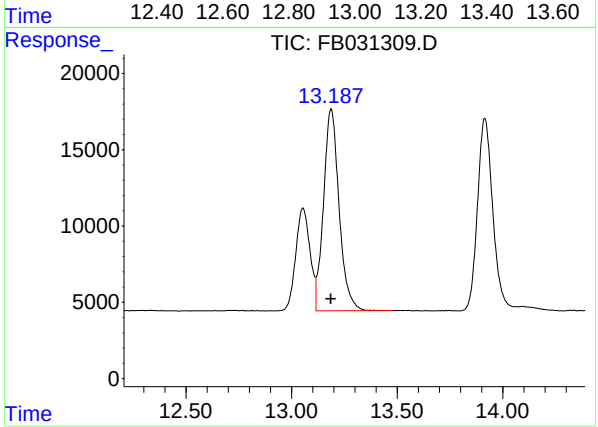

#6 Toluene

R.T.: 10.618 min
Delta R.T.: 0.000 min
Response: 1088237
Conc: 30.00 ng/ml



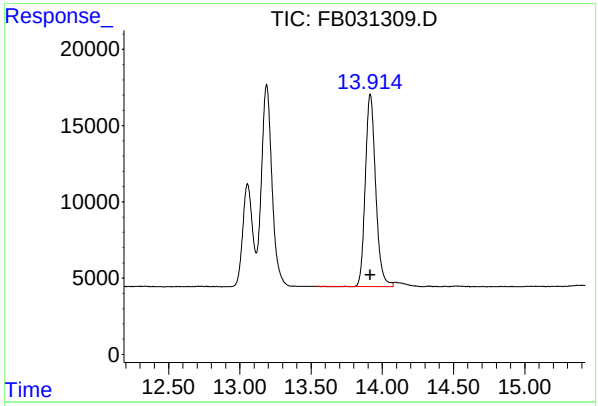

#7 Ethylbenzene

R.T.: 13.054 min
Delta R.T.: 0.000 min
Response: 317078
Conc: 10.00 ng/ml




#8 m-Xylene

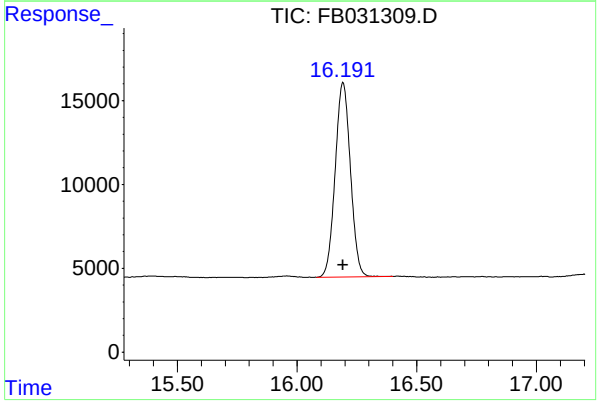
R.T.: 13.188 min
Delta R.T.: 0.000 min
Response: 679935
Conc: 20.00 ng/ml




#9 O-Xylene

R.T.: 13.916 min
Delta R.T.: 0.000 mi
Response: 635755
Conc: 20.00 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
20 GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.192 min
Delta R.T.: 0.000 min
Response: 513022
Conc: 20.00 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031309.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 11:13
Sample : 20 GRO STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.718 | 4.565 | 4.943 | BV | 12437 | 915530 | 84.13% | 14.254% |
| 2 | 7.420 | 7.201 | 7.638 | PV | 11994 | 1047795 | 96.28% | 16.314% |
| 3 | 7.751 | 7.638 | 7.820 | VV | 5939 | 335553 | 30.83% | 5.224% |
| 4 | 7.890 | 7.820 | 8.158 | VV | 7088 | 394556 | 36.26% | 6.143% |
| 5 | 8.790 | 8.567 | 9.024 | BV | 8649 | 495333 | 45.52% | 7.712% |
| 6 | 10.618 | 10.494 | 10.947 | VV | 20865 | 1088237 | 100.00% | 16.943% |
| 7 | 13.054 | 12.882 | 13.115 | BV | 6747 | 317078 | 29.14% | 4.937% |
| 8 | 13.188 | 13.115 | 13.480 | VB | 13255 | 679935 | 62.48% | 10.586% |
| 9 | 13.916 | 13.536 | 14.076 | BV | 12607 | 635755 | 58.42% | 9.898% |
| 10 | 16.192 | 16.080 | 16.401 | BBA | 11616 | 513022 | 47.14% | 7.988% |

Sum of corrected areas: 6422794

FB011525.M Wed Jan 15 13:12:41 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031310.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 11:40
Operator : YP/AJ
Sample : 50 GRO STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
50 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:21:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.789 | 1088363 | 45.072 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.716 | 2794680 | 92.689 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.422 | 3062779 | 87.112 | ng/ml |
| 3) t | n-Heptane | 7.751 | 1021135 | 31.806 | ng/ml |
| 4) t | Benzene | 7.889 | 1195371 | 31.251 | ng/ml |
| 6) t | Toluene | 10.618 | 3175016 | 87.930 | ng/ml |
| 7) t | Ethylbenzene | 13.056 | 915002 | 27.894 | ng/ml |
| 8) t | m-Xylene | 13.189 | 1979254 | 55.922 | ng/ml |
| 9) t | O-Xylene | 13.917 | 1844879 | 53.730 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.193 | 1414716 | 50.018 | ng/ml |

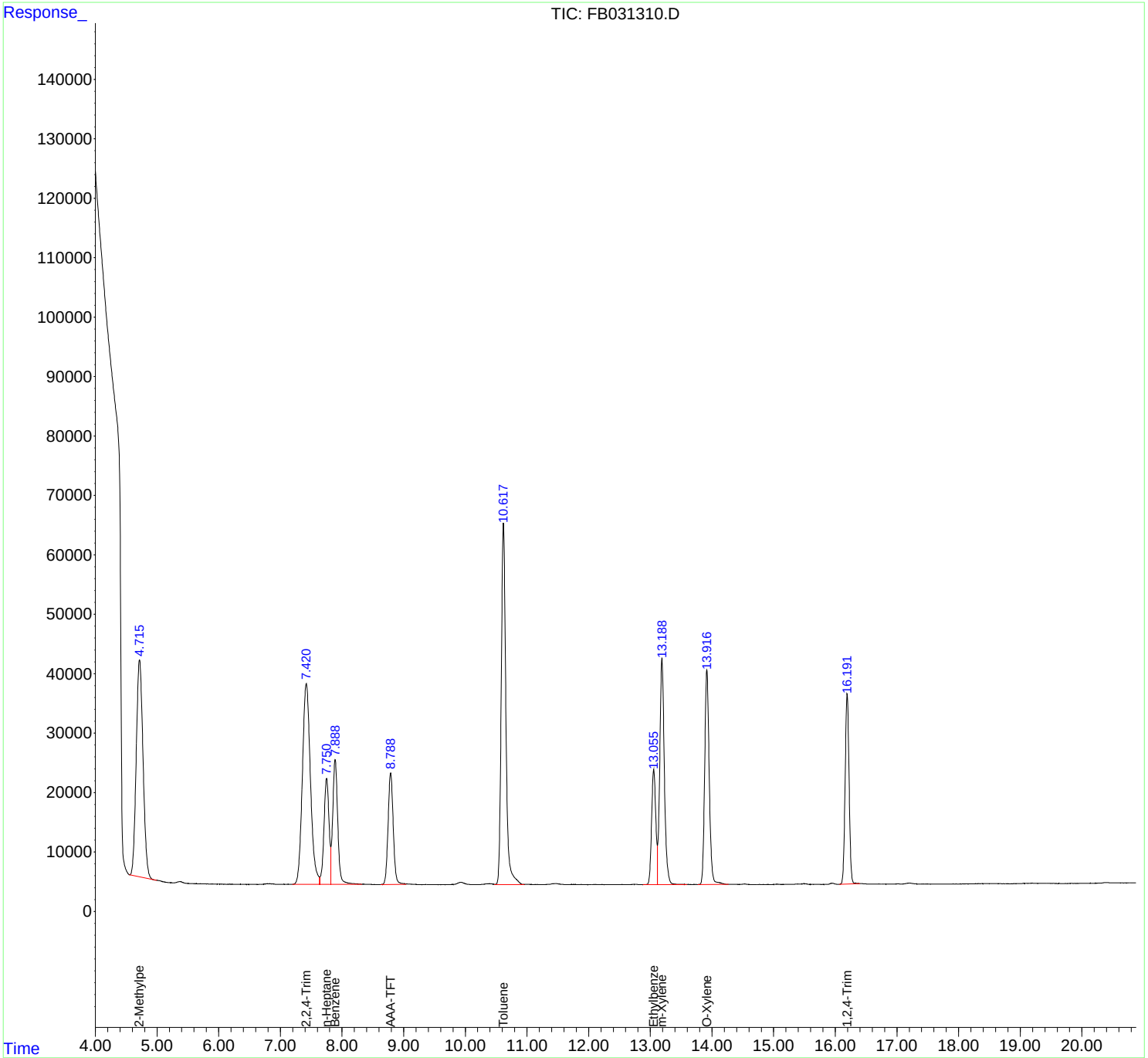
(f)=RT Delta > 1/2 Window (m)=manual int.

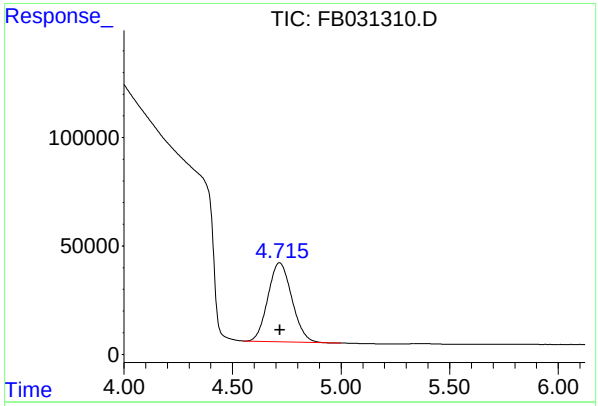
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031310.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 11:40
Operator : YP/AJ
Sample : 50 GRO STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
50 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 11:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:21:31 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

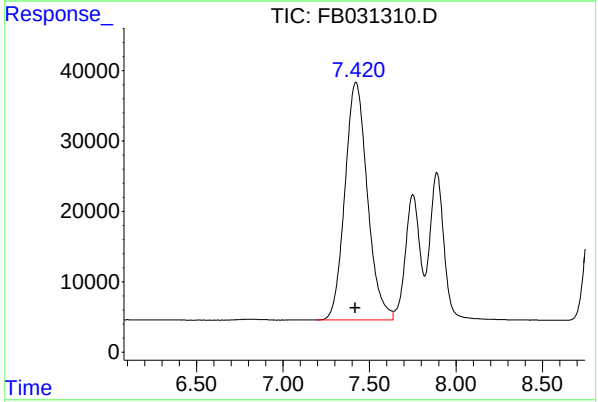





#1 2-Methylpentane

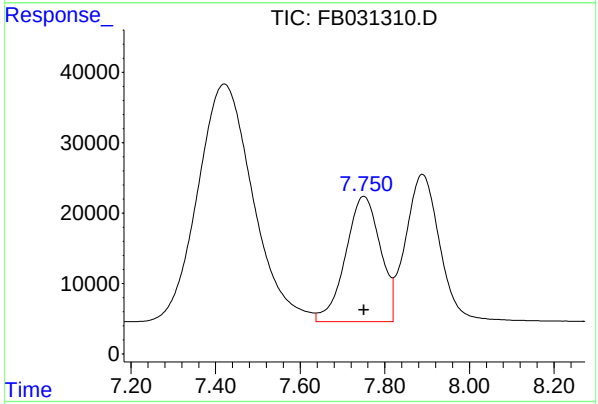
R.T.: 4.716 min
Delta R.T.: -0.002 min
Response: 2794680
Conc: 92.69 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
50 GRO STD



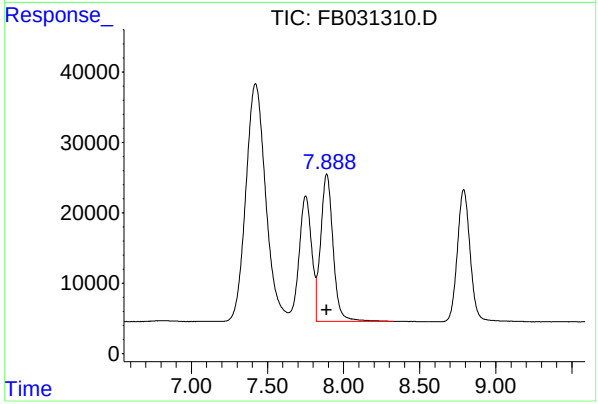

#2 2,2,4-Trimethylpentane

R.T.: 7.422 min
Delta R.T.: 0.002 min
Response: 3062779
Conc: 87.11 ng/ml



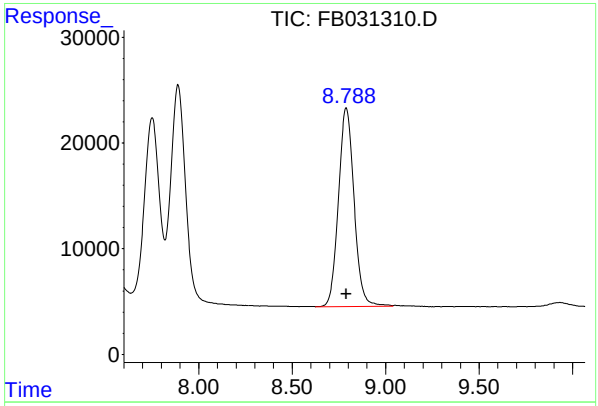

#3 n-Heptane

R.T.: 7.751 min
Delta R.T.: 0.000 min
Response: 1021135
Conc: 31.81 ng/ml




#4 Benzene

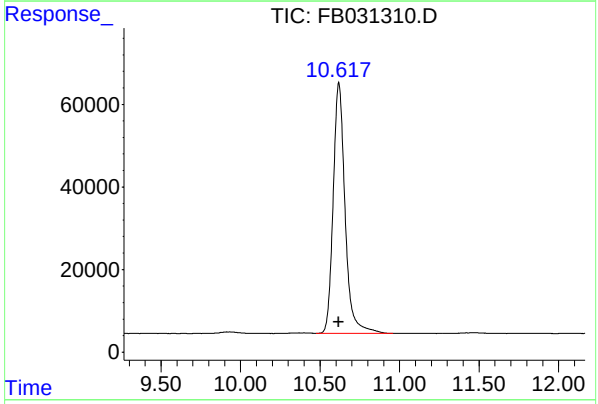
R.T.: 7.889 min
Delta R.T.: 0.000 min
Response: 1195371
Conc: 31.25 ng/ml




#5 AAA-TFT

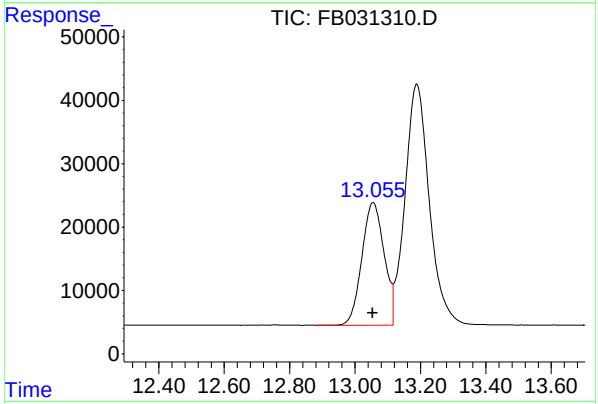
R.T.: 8.789 min
Delta R.T.: 0.000 min
Response: 1088363
Conc: 45.07 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
50 GRO STD



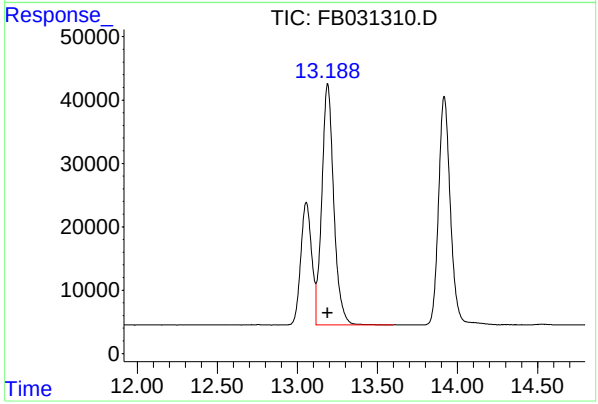

#6 Toluene

R.T.: 10.618 min
Delta R.T.: 0.000 min
Response: 3175016
Conc: 87.93 ng/ml



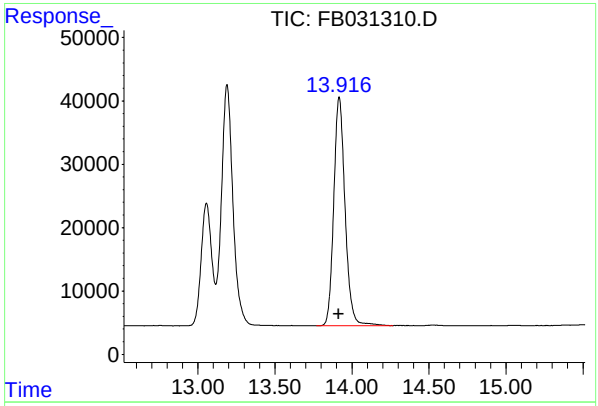

#7 Ethylbenzene

R.T.: 13.056 min
Delta R.T.: 0.001 min
Response: 915002
Conc: 27.89 ng/ml




#8 m-Xylene

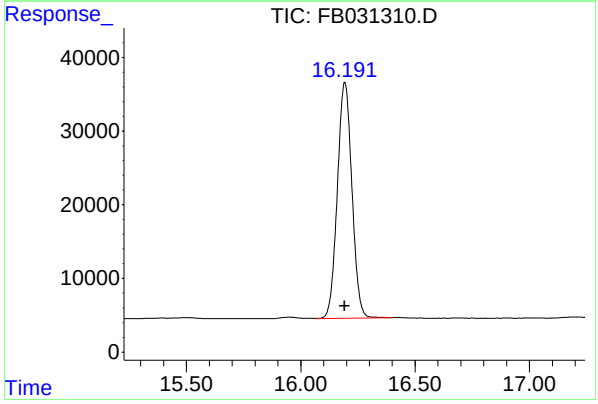
R.T.: 13.189 min
Delta R.T.: 0.001 min
Response: 1979254
Conc: 55.92 ng/ml




#9 O-Xylene

R.T.: 13.917 min
Delta R.T.: 0.002 min
Response: 1844879
Conc: 53.73 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
50 GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.193 min
Delta R.T.: 0.000 min
Response: 1414716
Conc: 50.02 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031310.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 11:40
Sample : 50 GRO STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.716 | 4.548 | 4.999 | BV | 36502 | 2794680 | 88.02% | 15.114% |
| 2 | 7.422 | 7.192 | 7.637 | PV | 33816 | 3062779 | 96.46% | 16.563% |
| 3 | 7.751 | 7.637 | 7.820 | VV | 17823 | 1021135 | 32.16% | 5.522% |
| 4 | 7.889 | 7.820 | 8.325 | VV | 20971 | 1195371 | 37.65% | 6.465% |
| 5 | 8.789 | 8.626 | 9.038 | PV | 18802 | 1088363 | 34.28% | 5.886% |
| 6 | 10.618 | 10.474 | 10.958 | VV | 60829 | 3175016 | 100.00% | 17.170% |
| 7 | 13.056 | 12.881 | 13.116 | PV | 19392 | 915002 | 28.82% | 4.948% |
| 8 | 13.189 | 13.116 | 13.597 | VV | 38094 | 1979254 | 62.34% | 10.704% |
| 9 | 13.917 | 13.768 | 14.268 | PV | 36104 | 1844879 | 58.11% | 9.977% |
| 10 | 16.193 | 16.066 | 16.403 | PBA | 32010 | 1414716 | 44.56% | 7.651% |

Sum of corrected areas: 18491195

FB011525.M Wed Jan 15 13:13:07 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031311.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 12:07
Operator : YP/AJ
Sample : 100 GRO STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
100 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 12:00:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:34:56 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.789 | 2505507 | 106.381 | ng/ml |
| | Target Compounds | | | | |
| 1) t | 2-Methylpentane | 4.714 | 5701862 | 178.580 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.425 | 6258583 | 171.100 | ng/ml |
| 3) t | n-Heptane | 7.749 | 2166770 | 63.189 | ng/ml |
| 4) t | Benzene | 7.889 | 2519199 | 61.986 | ng/ml |
| 6) t | Toluene | 10.619 | 6686047 | 177.515 | ng/ml |
| 7) t | Ethylbenzene | 13.057 | 1906774 | 56.494 | ng/ml |
| 8) t | m-Xylene | 13.191 | 4113116 | 112.870 | ng/ml |
| 9) t | O-Xylene | 13.919 | 3816110 | 109.105 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.194 | 2845927 | 100.611 | ng/ml |

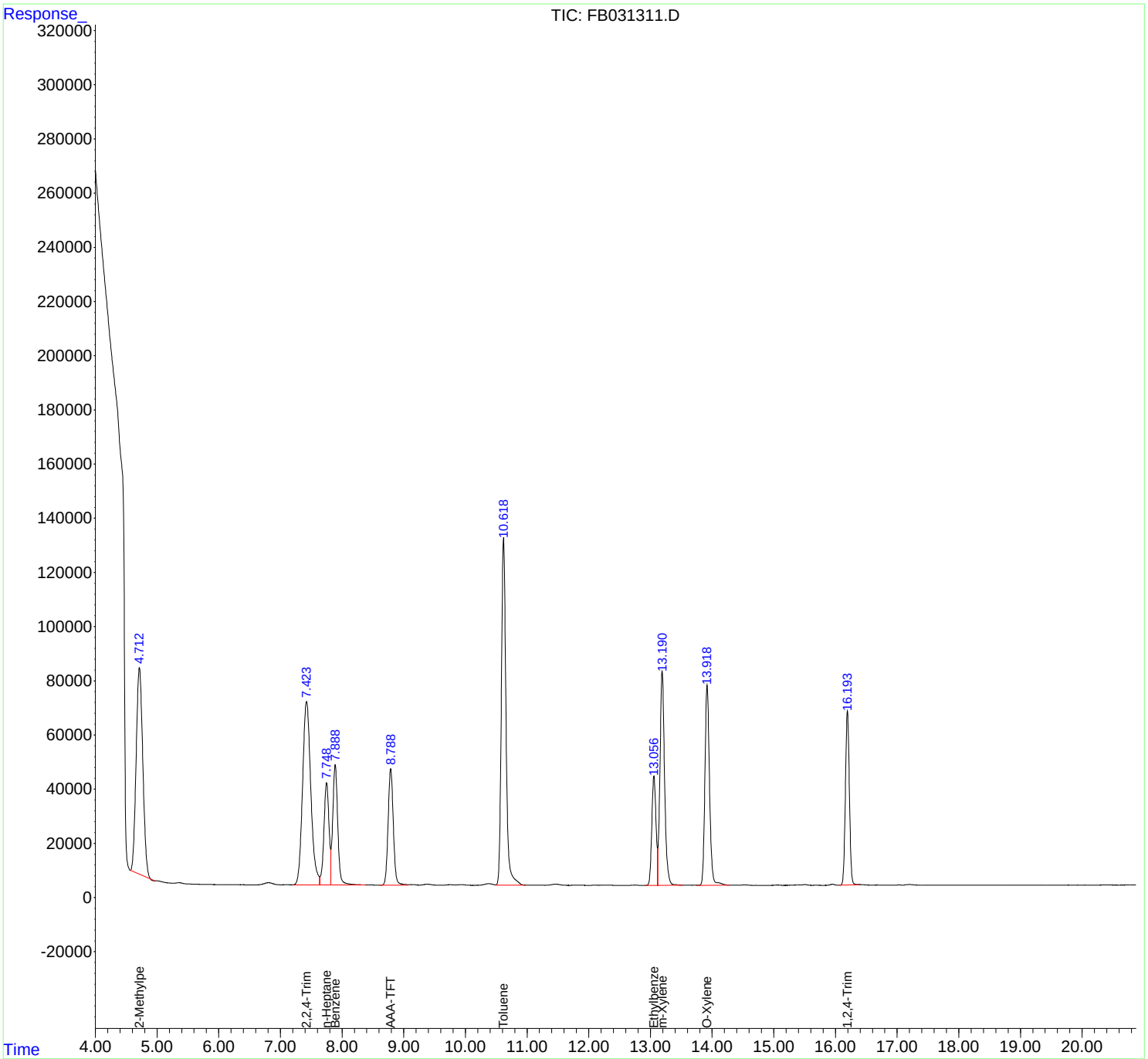
(f)=RT Delta > 1/2 Window (m)=manual int.

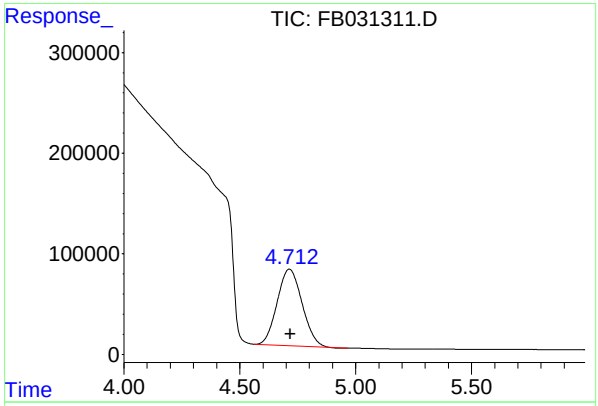
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031311.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 12:07
Operator : YP/AJ
Sample : 100 GRO STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
100 GRO STD

Integration File: Calibration.e
Quant Time: Jan 15 12:00:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 11:34:56 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

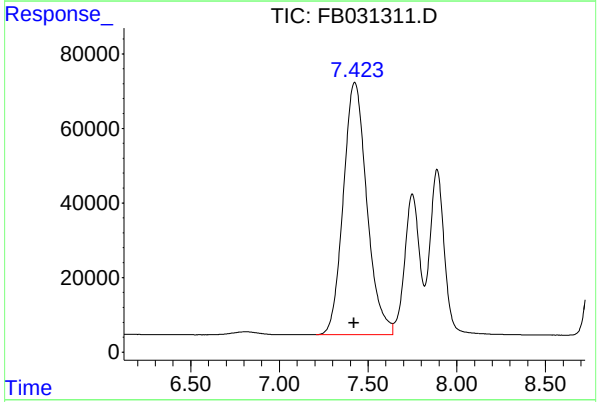





#1 2-Methylpentane

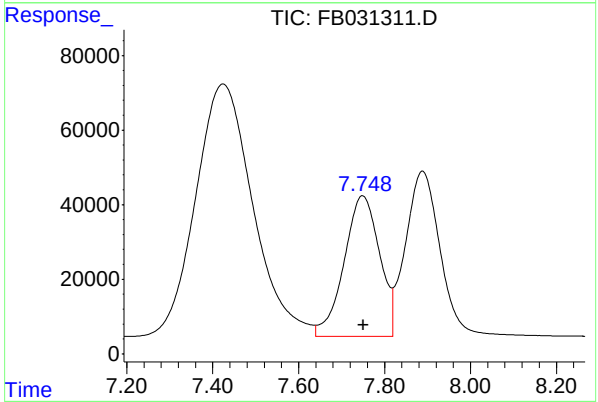
R.T.: 4.714 min
Delta R.T.: -0.004 min
Response: 5701862
Conc: 178.58 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
100 GRO STD



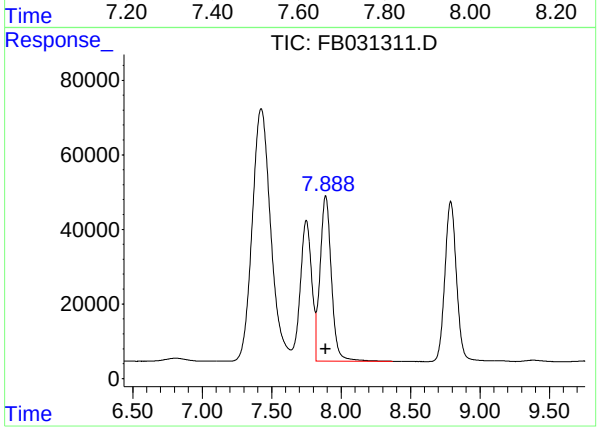

#2 2,2,4-Trimethylpentane

R.T.: 7.425 min
Delta R.T.: 0.005 min
Response: 6258583
Conc: 171.10 ng/ml



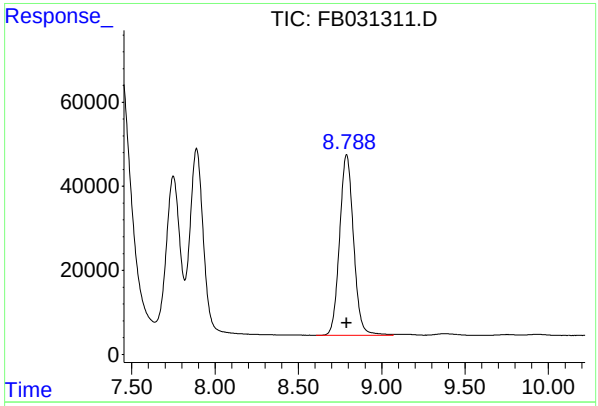

#3 n-Heptane

R.T.: 7.749 min
Delta R.T.: -0.002 min
Response: 2166770
Conc: 63.19 ng/ml




#4 Benzene

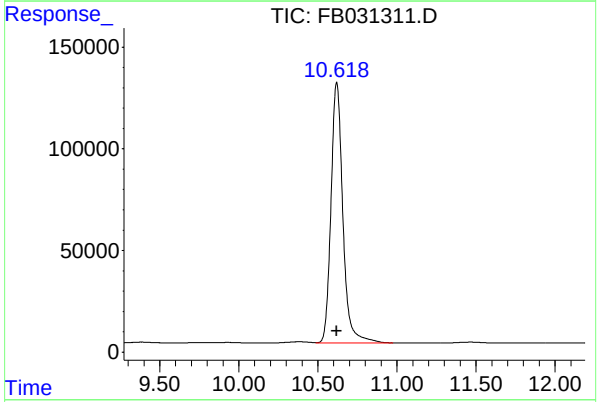
R.T.: 7.889 min
Delta R.T.: 0.000 min
Response: 2519199
Conc: 61.99 ng/ml




#5 AAA-TFT

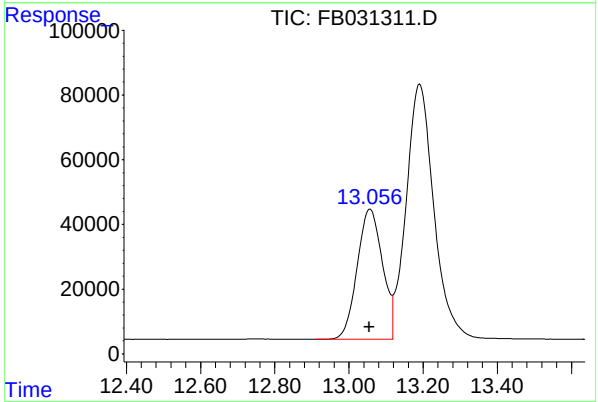
R.T.: 8.789 min
Delta R.T.: 0.000 min
Response: 2505507
Conc: 106.38 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
100 GRO STD



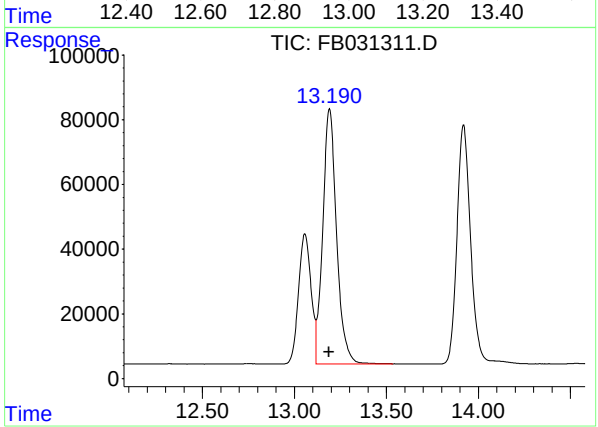

#6 Toluene

R.T.: 10.619 min
Delta R.T.: 0.002 min
Response: 6686047
Conc: 177.51 ng/ml



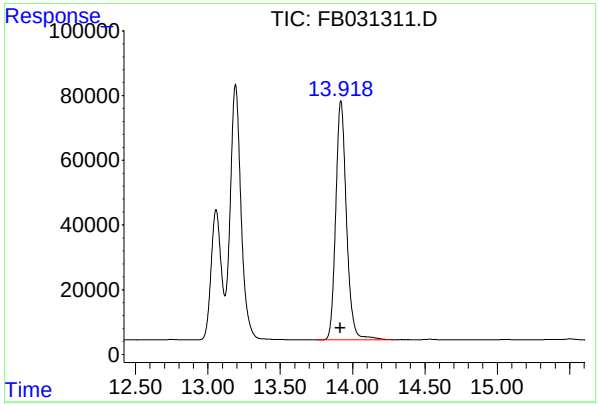

#7 Ethylbenzene

R.T.: 13.057 min
Delta R.T.: 0.003 min
Response: 1906774
Conc: 56.49 ng/ml




#8 m-Xylene

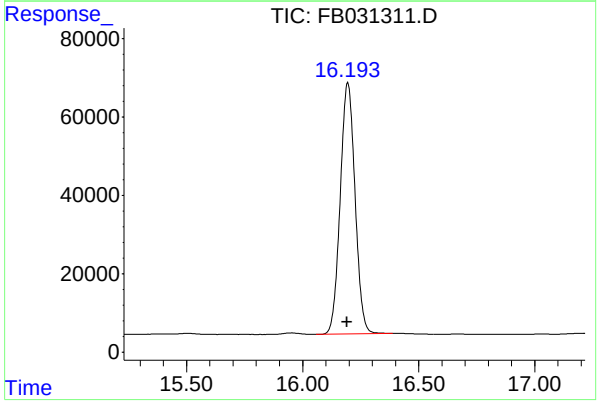
R.T.: 13.191 min
Delta R.T.: 0.003 min
Response: 4113116
Conc: 112.87 ng/ml




#9 O-Xylene

R.T.: 13.919 min
Delta R.T.: 0.004 min
Response: 3816110
Conc: 109.10 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
100 GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.194 min
Delta R.T.: 0.002 min
Response: 2845927
Conc: 100.61 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031311.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 12:07
Sample : 100 GRO STD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.714 | 4.559 | 4.969 | BV | 76258 | 5701862 | 85.28% | 14.802% |
| 2 | 7.425 | 7.205 | 7.639 | PV | 67744 | 6258583 | 93.61% | 16.248% |
| 3 | 7.749 | 7.639 | 7.819 | VV | 37772 | 2166770 | 32.41% | 5.625% |
| 4 | 7.889 | 7.819 | 8.373 | VV | 44426 | 2519199 | 37.68% | 6.540% |
| 5 | 8.789 | 8.606 | 9.067 | PV | 43041 | 2505507 | 37.47% | 6.504% |
| 6 | 10.619 | 10.488 | 10.975 | VV | 128321 | 6686047 | 100.00% | 17.357% |
| 7 | 13.057 | 12.910 | 13.118 | PV | 40292 | 1906774 | 28.52% | 4.950% |
| 8 | 13.191 | 13.118 | 13.536 | VV | 78889 | 4113116 | 61.52% | 10.678% |
| 9 | 13.919 | 13.747 | 14.279 | PV | 73895 | 3816110 | 57.08% | 9.907% |
| 10 | 16.194 | 16.057 | 16.389 | PV | 64194 | 2845927 | 42.57% | 7.388% |

Sum of corrected areas: 38519896

FB011525.M Wed Jan 15 13:13:44 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031312.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 12:44
Operator : YP/AJ
Sample : FB011525GROICV
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
FB011525GROICV

Integration File: Calibration.e
Quant Time: Jan 15 12:38:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.788 | 479840 | 20.117 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.715 | 1029585 | 31.062 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.415 | 1208467 | 32.134 | ng/ml |
| 3) t | n-Heptane | 7.749 | 355226 | 9.840 | ng/ml |
| 4) t | Benzene | 7.887 | 448910 | 10.540 | ng/ml |
| 6) t | Toluene | 10.616 | 1231346 | 31.535 | ng/ml |
| 7) t | Ethylbenzene | 13.053 | 368640 | 10.646 | ng/ml |
| 8) t | m-Xylene | 13.186 | 805181 | 21.541 | ng/ml |
| 9) t | O-Xylene | 13.914 | 762753 | 21.418 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.191 | 636053 | 22.459 | ng/ml |

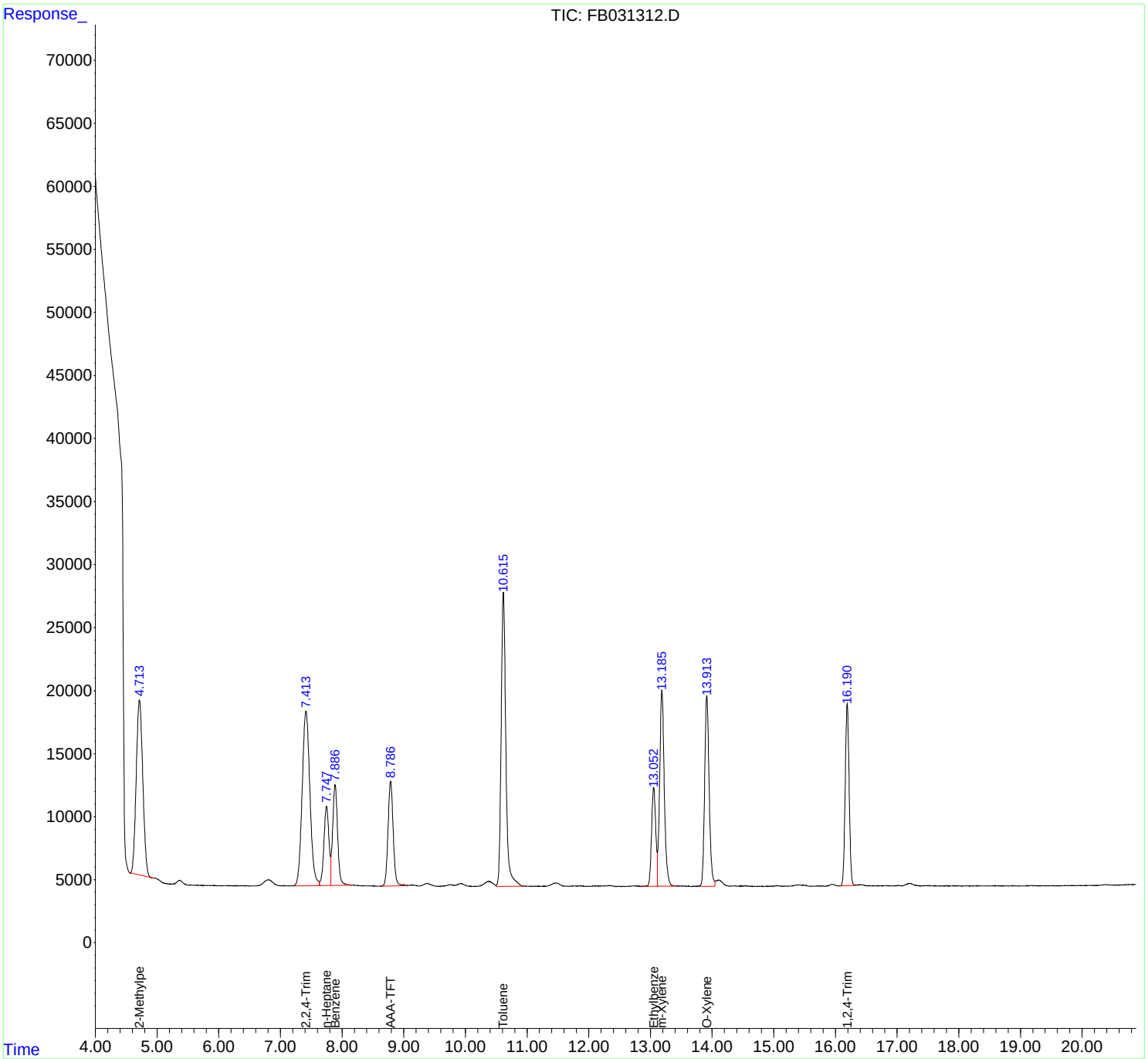
(f)=RT Delta > 1/2 Window (m)=manual int.

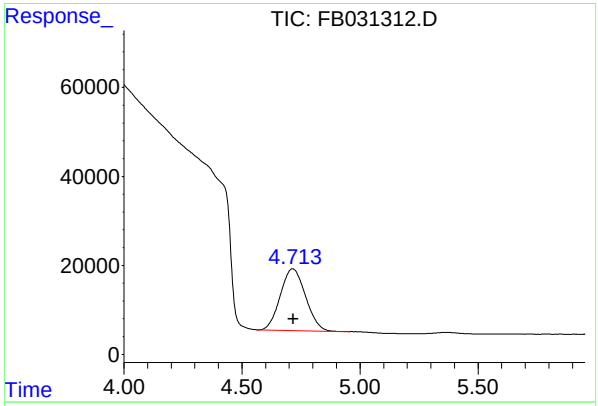
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031312.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 12:44
Operator : YP/AJ
Sample : FB011525GROICV
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
FB011525GROICV

Integration File: Calibration.e
Quant Time: Jan 15 12:38:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

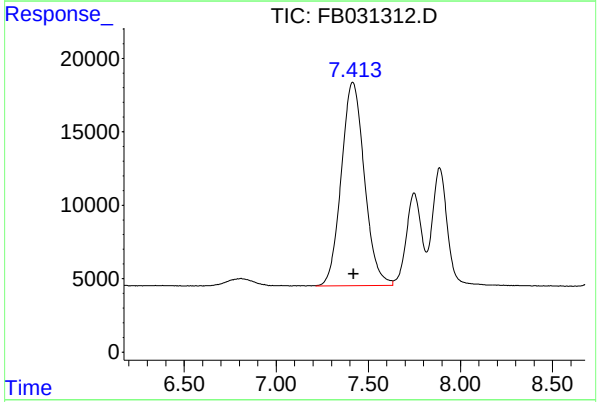





#1 2-Methylpentane

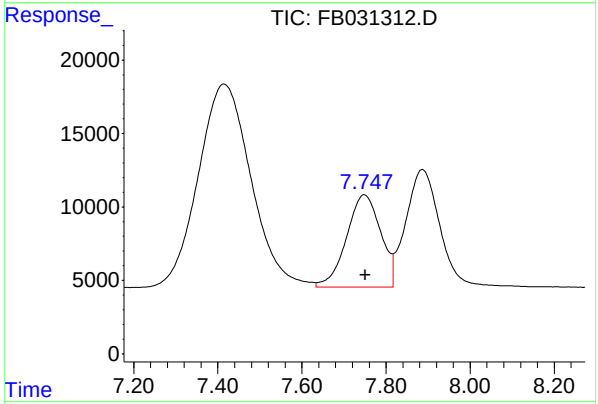
R.T.: 4.715 min
Delta R.T.: -0.003 min
Response: 1029585
Conc: 31.06 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
FB011525GROICV



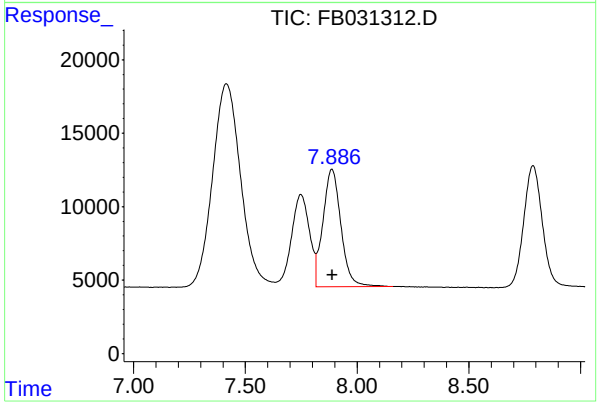

#2 2,2,4-Trimethylpentane

R.T.: 7.415 min
Delta R.T.: -0.005 min
Response: 1208467
Conc: 32.13 ng/ml



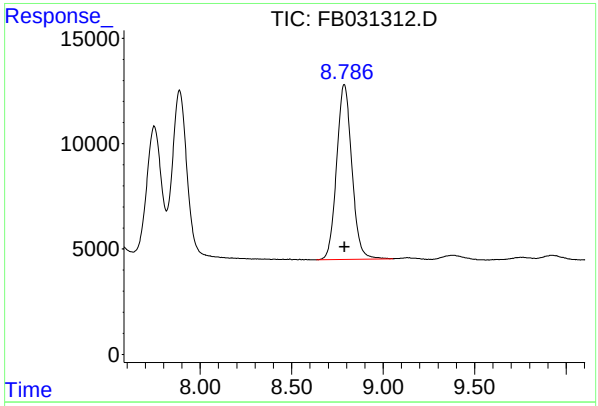

#3 n-Heptane

R.T.: 7.749 min
Delta R.T.: -0.003 min
Response: 355226
Conc: 9.84 ng/ml




#4 Benzene

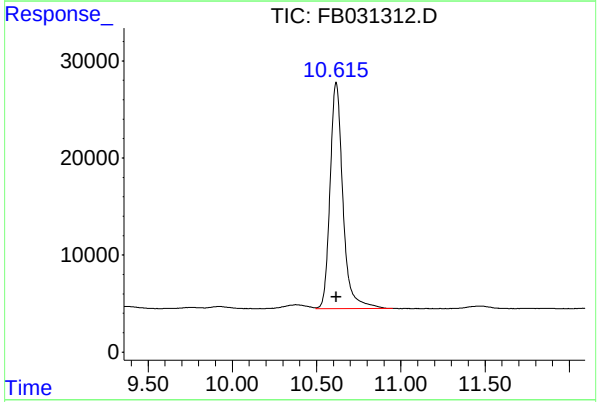
R.T.: 7.887 min
Delta R.T.: -0.003 min
Response: 448910
Conc: 10.54 ng/ml




#5 AAA-TFT

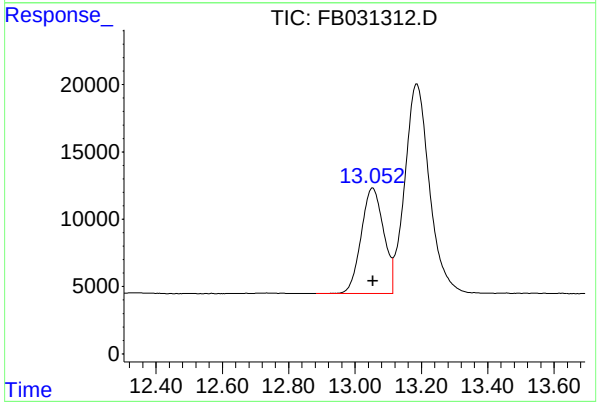
R.T.: 8.788 min
Delta R.T.: -0.002 min
Response: 479840
Conc: 20.12 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
FB011525GROICV



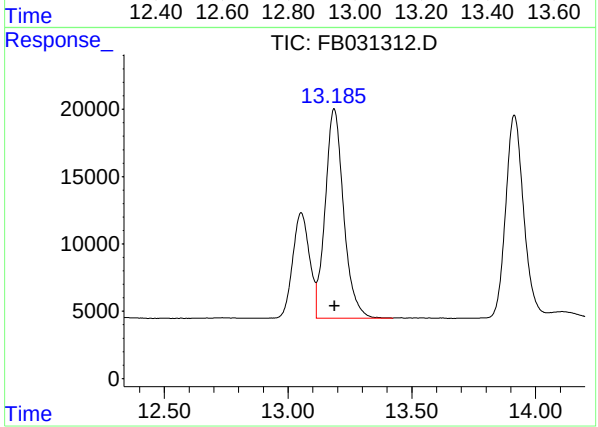

#6 Toluene

R.T.: 10.616 min
Delta R.T.: -0.001 min
Response: 1231346
Conc: 31.54 ng/ml



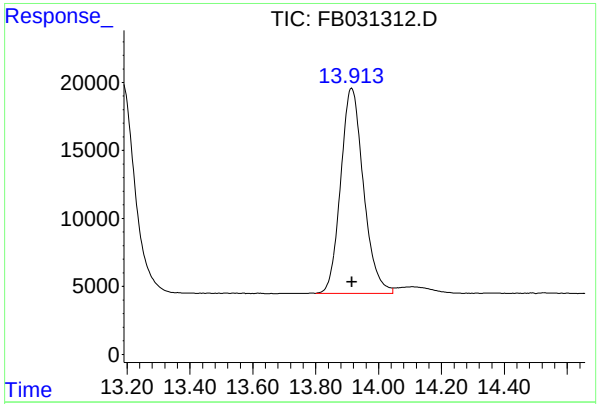

#7 Ethylbenzene

R.T.: 13.053 min
Delta R.T.: -0.001 min
Response: 368640
Conc: 10.65 ng/ml




#8 m-Xylene

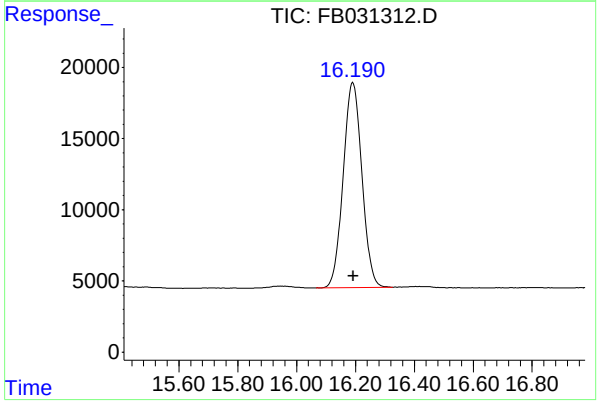
R.T.: 13.186 min
Delta R.T.: -0.002 min
Response: 805181
Conc: 21.54 ng/ml




#9 O-Xylene

R.T.: 13.914 min
Delta R.T.: -0.001 mi
Response: 762753
Conc: 21.42 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
FB011525GROICV




#10 1,2,4-Trimethylbenzene

R.T.: 16.191 min
Delta R.T.: 0.000 min
Response: 636053
Conc: 22.46 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB011525\
Data File : FB031312.D
Signal(s) : FID2B.CH
Acq On : 15 Jan 2025 12:44
Sample : FB011525GROICV
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.715 | 4.559 | 4.958 | BV | 13885 | 1029585 | 83.61% | 14.054% |
| 2 | 7.415 | 7.215 | 7.633 | VV | 13856 | 1208467 | 98.14% | 16.496% |
| 3 | 7.749 | 7.633 | 7.816 | VV | 6299 | 355226 | 28.85% | 4.849% |
| 4 | 7.887 | 7.816 | 8.161 | VV | 7999 | 448910 | 36.46% | 6.128% |
| 5 | 8.788 | 8.634 | 9.055 | PV | 8302 | 479840 | 38.97% | 6.550% |
| 6 | 10.616 | 10.496 | 10.953 | VV | 23336 | 1231346 | 100.00% | 16.808% |
| 7 | 13.053 | 12.882 | 13.114 | BV | 7850 | 368640 | 29.94% | 5.032% |
| 8 | 13.186 | 13.114 | 13.424 | VV | 15574 | 805181 | 65.39% | 10.991% |
| 9 | 13.914 | 13.800 | 14.045 | VV | 15094 | 762753 | 61.94% | 10.412% |
| 10 | 16.191 | 16.066 | 16.327 | PV | 14424 | 636053 | 51.66% | 8.682% |

Sum of corrected areas: 7326001

FB011525.M Wed Jan 15 13:14:07 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

DataFile: FB031412.D Analyst Name: YP/AJ Analyst Date: 01-31-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 6268334 | 34824 | 35852 | 2.867 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031412.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 9:03
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:14:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.786 | 411370 | 17.246 | ng/ml |
| | Target Compounds | | | | |
| 1) t | 2-Methylpentane | 4.714 | 858048 | 25.887 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.416 | 1100093 | 29.252 | ng/ml |
| 3) t | n-Heptane | 7.747 | 331592 | 9.186 | ng/ml |
| 4) t | Benzene | 7.886 | 438204 | 10.289 | ng/ml |
| 6) t | Toluene | 10.615 | 1185304 | 30.356 | ng/ml |
| 7) t | Ethylbenzene | 13.054 | 344755 | 9.956 | ng/ml |
| 8) t | m-Xylene | 13.187 | 740500 | 19.810 | ng/ml |
| 9) t | O-Xylene | 13.915 | 709141 | 19.912 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.193 | 560697 | 19.798 | ng/ml |

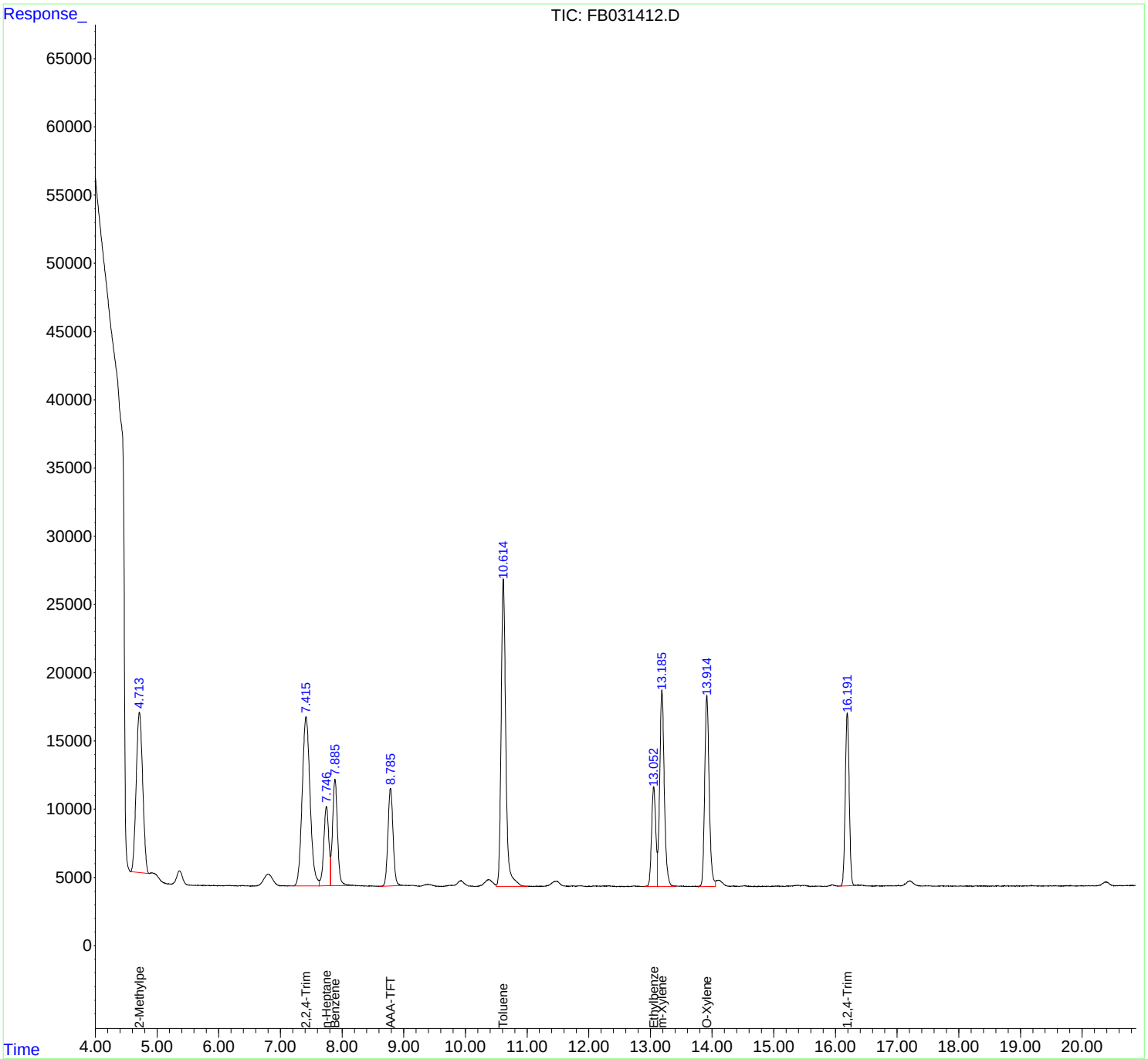
(f)=RT Delta > 1/2 Window (m)=manual int.

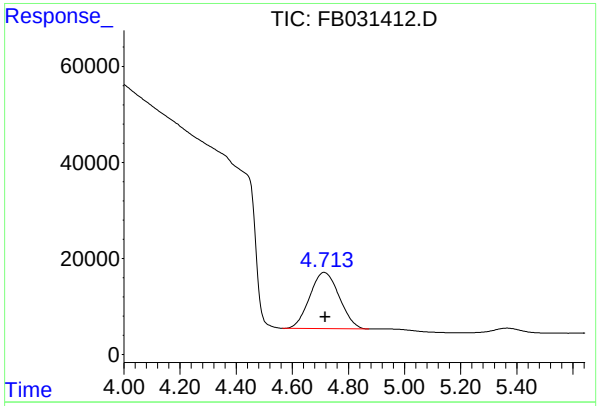
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031412.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 9:03
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:14:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

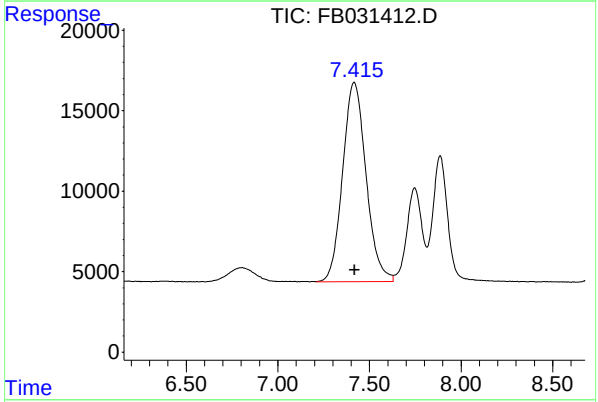





#1 2-Methylpentane

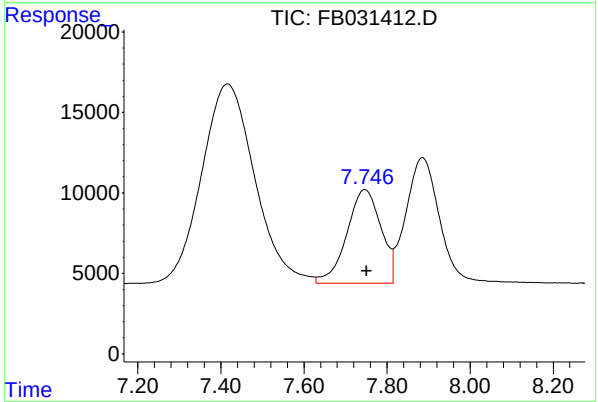
R.T.: 4.714 min
Delta R.T.: -0.004 min
Response: 858048
Conc: 25.89 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



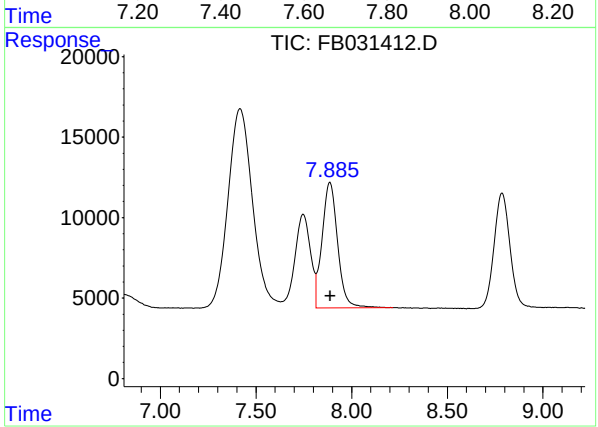

#2 2,2,4-Trimethylpentane

R.T.: 7.416 min
Delta R.T.: -0.003 min
Response: 1100093
Conc: 29.25 ng/ml



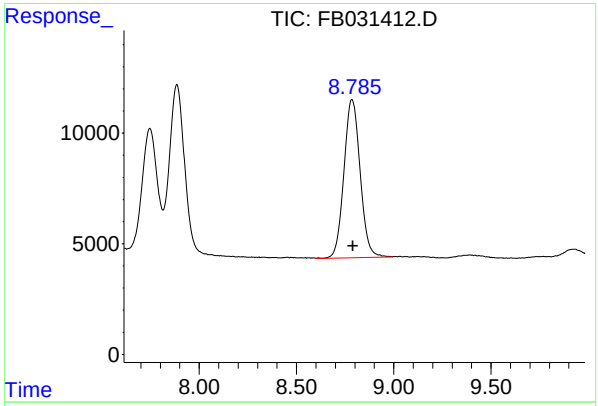

#3 n-Heptane

R.T.: 7.747 min
Delta R.T.: -0.004 min
Response: 331592
Conc: 9.19 ng/ml




#4 Benzene

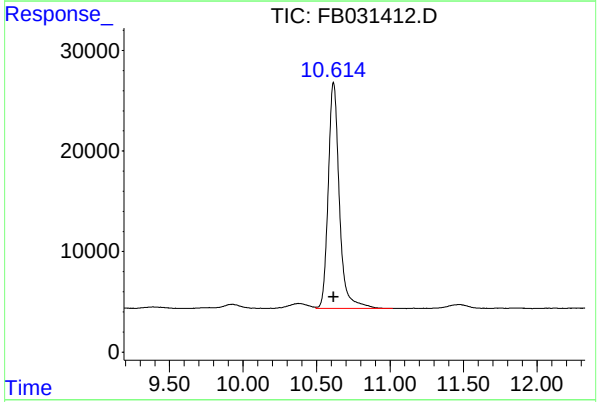
R.T.: 7.886 min
Delta R.T.: -0.004 min
Response: 438204
Conc: 10.29 ng/ml




#5 AAA-TFT

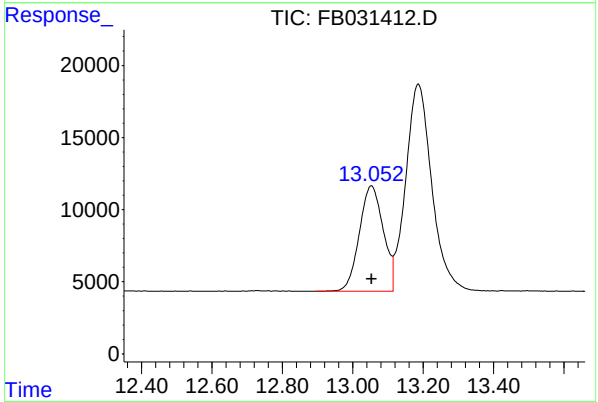
R.T.: 8.786 min
Delta R.T.: -0.004 min
Response: 411370
Conc: 17.25 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



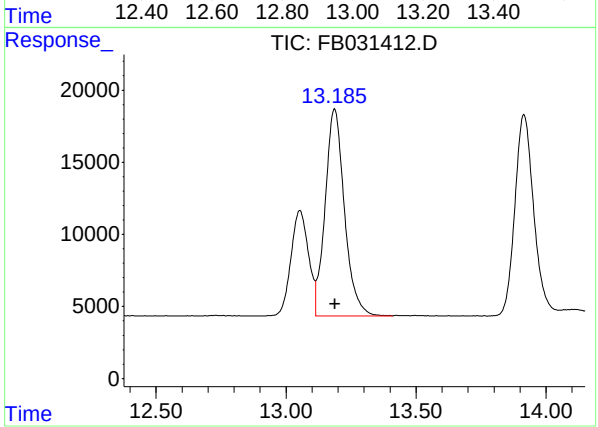

#6 Toluene

R.T.: 10.615 min
Delta R.T.: -0.002 min
Response: 1185304
Conc: 30.36 ng/ml



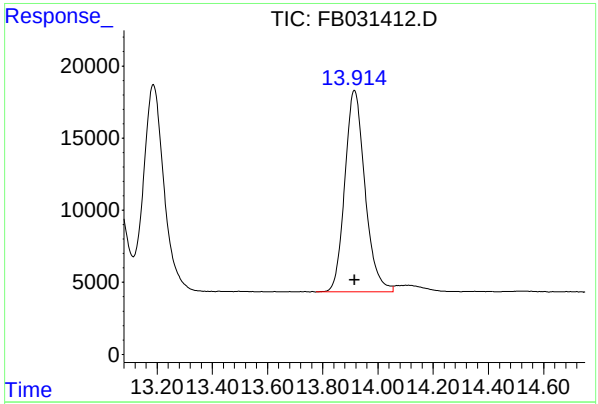

#7 Ethylbenzene

R.T.: 13.054 min
Delta R.T.: 0.000 min
Response: 344755
Conc: 9.96 ng/ml




#8 m-Xylene

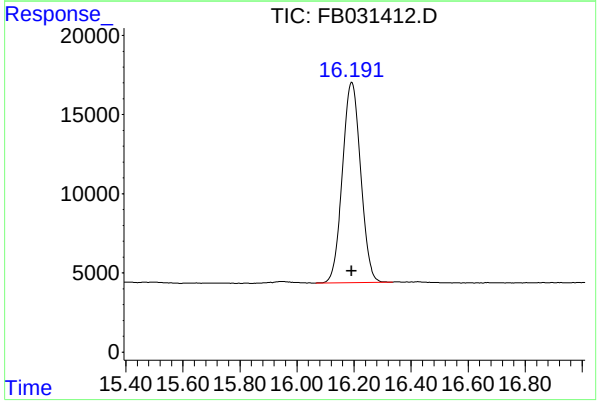
R.T.: 13.187 min
Delta R.T.: -0.001 min
Response: 740500
Conc: 19.81 ng/ml




#9 O-Xylene

R.T.: 13.915 min
Delta R.T.: 0.000 min
Response: 709141
Conc: 19.91 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.193 min
Delta R.T.: 0.000 min
Response: 560697
Conc: 19.80 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031412.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 9:03
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.714 | 4.565 | 4.874 | BV | 11747 | 858048 | 72.39% | 12.846% |
| 2 | 7.416 | 7.209 | 7.629 | PV | 12395 | 1100093 | 92.81% | 16.469% |
| 3 | 7.747 | 7.629 | 7.814 | VV | 5820 | 331592 | 27.98% | 4.964% |
| 4 | 7.886 | 7.814 | 8.217 | VV | 7807 | 438204 | 36.97% | 6.560% |
| 5 | 8.786 | 8.601 | 8.996 | PV | 7156 | 411370 | 34.71% | 6.159% |
| 6 | 10.615 | 10.496 | 11.020 | VV | 22495 | 1185304 | 100.00% | 17.745% |
| 7 | 13.054 | 12.896 | 13.114 | BV | 7315 | 344755 | 29.09% | 5.161% |
| 8 | 13.187 | 13.114 | 13.410 | VV | 14382 | 740500 | 62.47% | 11.086% |
| 9 | 13.915 | 13.776 | 14.055 | PV | 13987 | 709141 | 59.83% | 10.616% |
| 10 | 16.193 | 16.066 | 16.336 | PV | 12667 | 560697 | 47.30% | 8.394% |

Sum of corrected areas: 6679704

FB011525.M Sat Feb 01 00:45:36 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

DataFile: FB031421.D Analyst Name: YP/AJ Analyst Date: 01-31-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 5823973 | 32355 | 35852 | 9.754 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031421.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 13:38
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:16:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.791 | 502716 | 21.076 | ng/ml |
| | Target Compounds | | | | |
| 1) t | 2-Methylpentane | 4.717 | 735152 | 22.179 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.420 | 990812 | 26.346 | ng/ml |
| 3) t | n-Heptane | 7.753 | 292997 | 8.116 | ng/ml |
| 4) t | Benzene | 7.891 | 415541 | 9.757 | ng/ml |
| 6) t | Toluene | 10.621 | 1137456 | 29.131 | ng/ml |
| 7) t | Ethylbenzene | 13.058 | 330465 | 9.543 | ng/ml |
| 8) t | m-Xylene | 13.192 | 717104 | 19.185 | ng/ml |
| 9) t | O-Xylene | 13.920 | 671452 | 18.854 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.196 | 532994 | 18.820 | ng/ml |

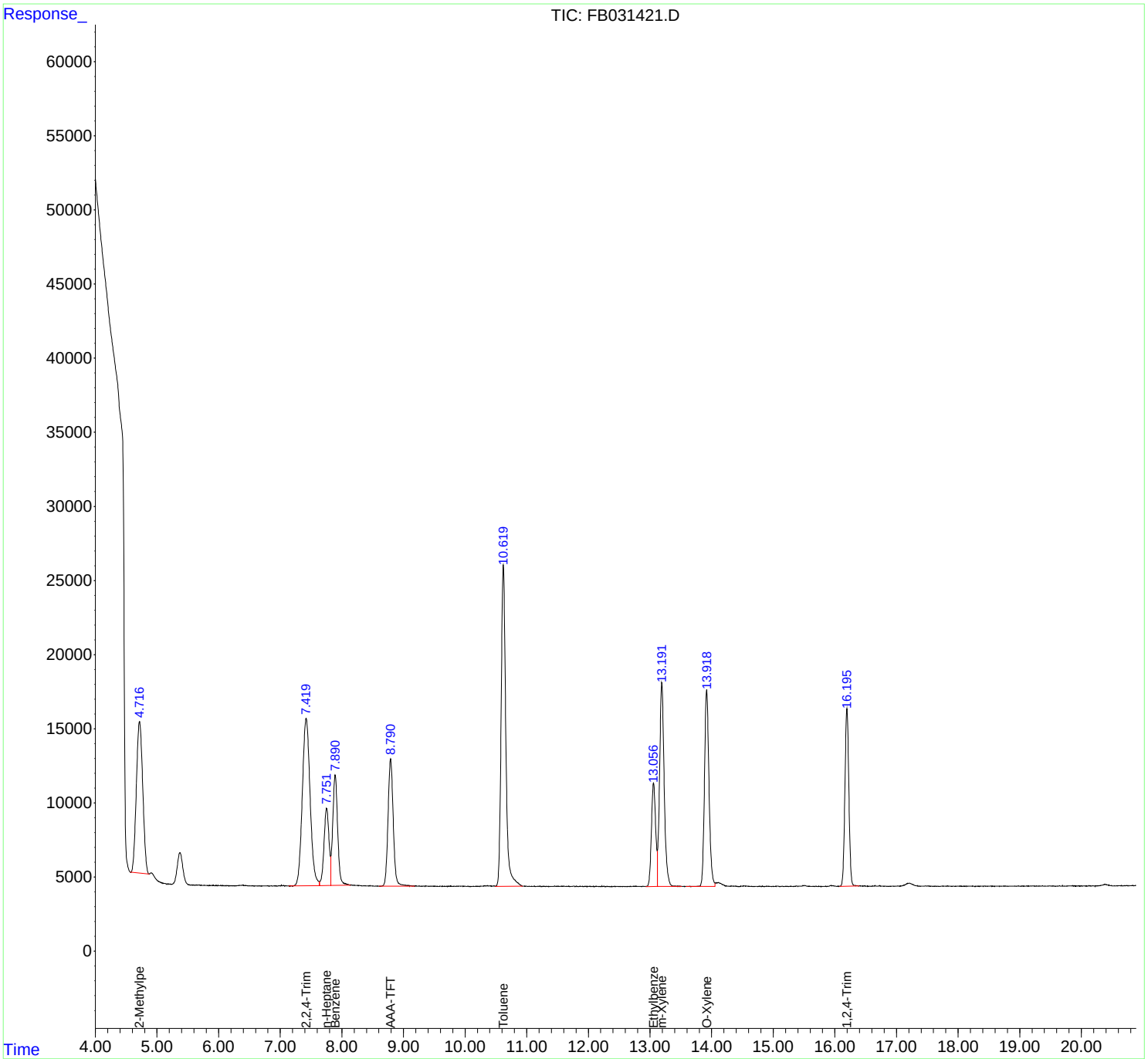
(f)=RT Delta > 1/2 Window (m)=manual int.

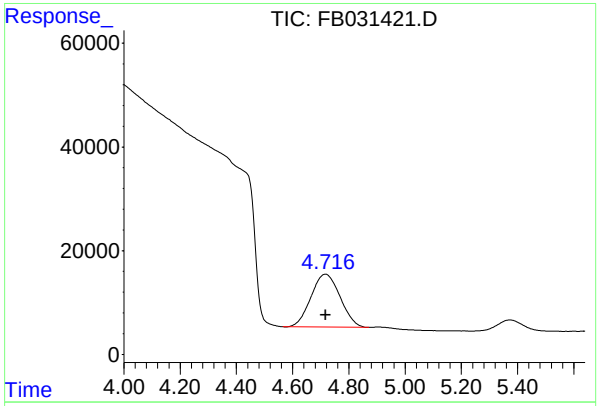
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031421.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 13:38
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:16:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

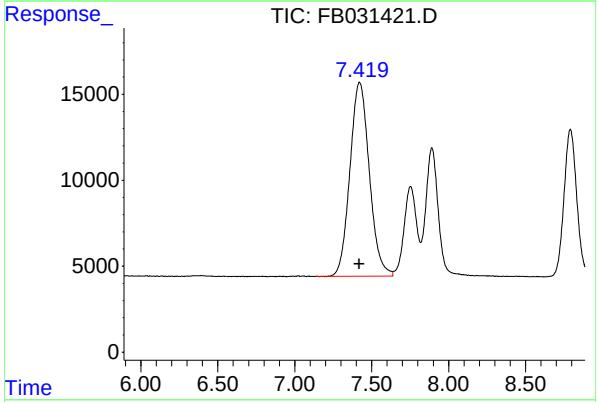





#1 2-Methylpentane

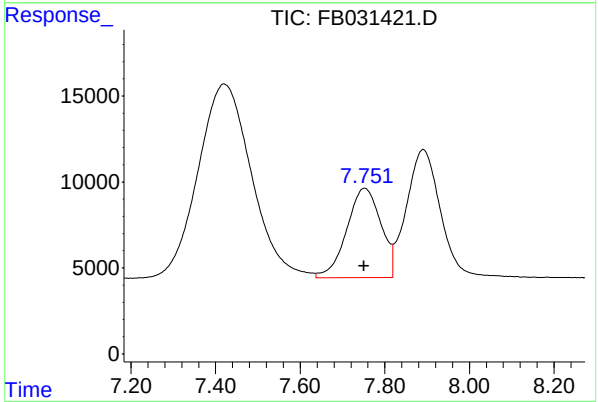
R.T.: 4.717 min
Delta R.T.: 0.000 min
Response: 735152
Conc: 22.18 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



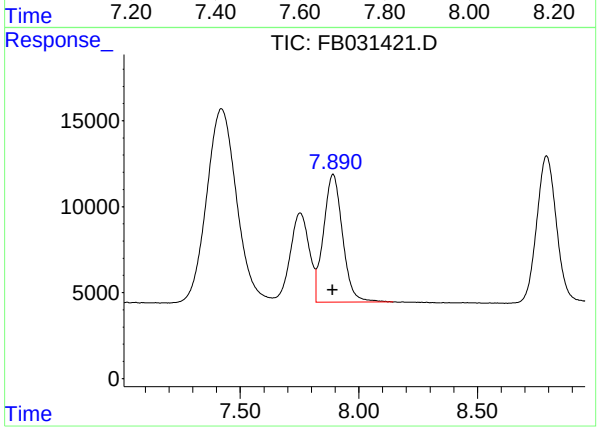

#2 2,2,4-Trimethylpentane

R.T.: 7.420 min
Delta R.T.: 0.000 min
Response: 990812
Conc: 26.35 ng/ml



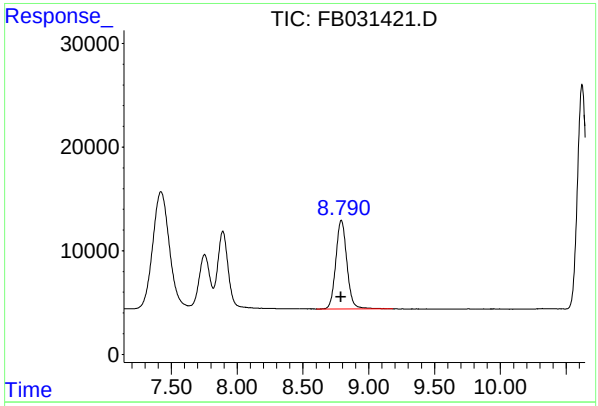

#3 n-Heptane

R.T.: 7.753 min
Delta R.T.: 0.002 min
Response: 292997
Conc: 8.12 ng/ml




#4 Benzene

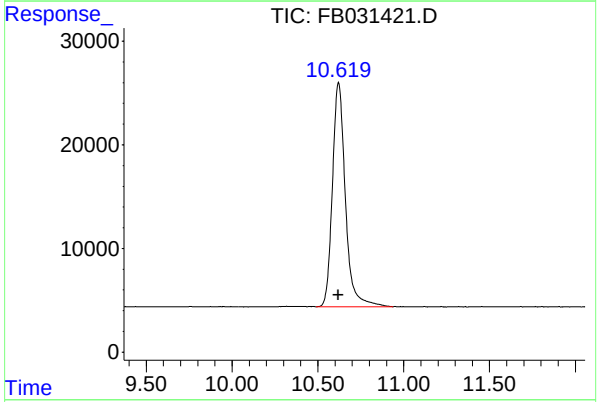
R.T.: 7.891 min
Delta R.T.: 0.002 min
Response: 415541
Conc: 9.76 ng/ml




#5 AAA-TFT

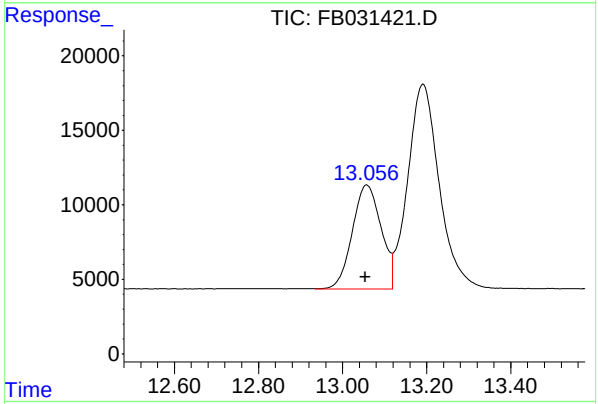
R.T.: 8.791 min
Delta R.T.: 0.002 min
Response: 502716
Conc: 21.08 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



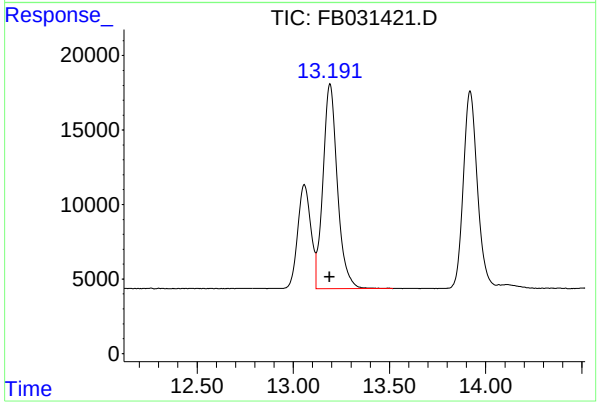

#6 Toluene

R.T.: 10.621 min
Delta R.T.: 0.003 min
Response: 1137456
Conc: 29.13 ng/ml



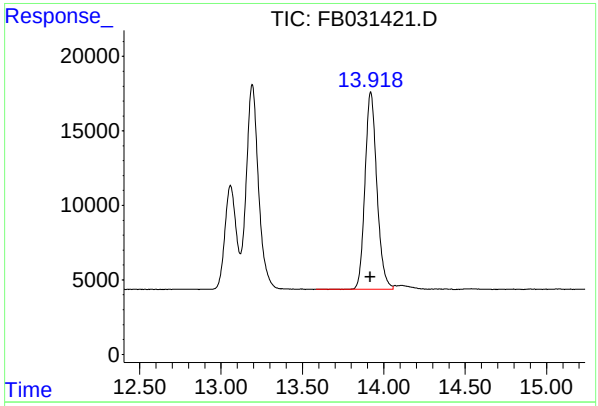

#7 Ethylbenzene

R.T.: 13.058 min
Delta R.T.: 0.003 min
Response: 330465
Conc: 9.54 ng/ml




#8 m-Xylene

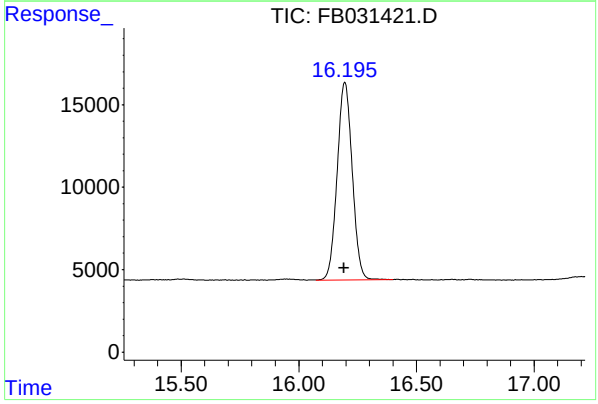
R.T.: 13.192 min
Delta R.T.: 0.004 min
Response: 717104
Conc: 19.18 ng/ml




#9 O-Xylene

R.T.: 13.920 min
Delta R.T.: 0.004 min
Response: 671452
Conc: 18.85 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.196 min
Delta R.T.: 0.004 min
Response: 532994
Conc: 18.82 ng/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031421.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 13:38
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.717 | 4.565 | 4.872 | BV | 10223 | 735152 | 64.63% | 11.620% |
| 2 | 7.420 | 7.137 | 7.637 | VV | 11293 | 990812 | 87.11% | 15.661% |
| 3 | 7.753 | 7.637 | 7.819 | VV | 5209 | 292997 | 25.76% | 4.631% |
| 4 | 7.891 | 7.819 | 8.143 | VV | 7454 | 415541 | 36.53% | 6.568% |
| 5 | 8.791 | 8.601 | 9.185 | BV | 8580 | 502716 | 44.20% | 7.946% |
| 6 | 10.621 | 10.489 | 10.937 | PV | 21669 | 1137456 | 100.00% | 17.979% |
| 7 | 13.058 | 12.935 | 13.119 | VV | 6976 | 330465 | 29.05% | 5.223% |
| 8 | 13.192 | 13.119 | 13.519 | VB | 13749 | 717104 | 63.04% | 11.335% |
| 9 | 13.920 | 13.583 | 14.056 | BV | 13260 | 671452 | 59.03% | 10.613% |
| 10 | 16.196 | 16.074 | 16.401 | BBA | 11995 | 532994 | 46.86% | 8.425% |

Sum of corrected areas: 6326687

FB011525.M Sat Feb 01 00:47:31 2025

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Fax : 908 789 8922

## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

DataFile: FB031432.D Analyst Name: YP/AJ Analyst Date: 01-31-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 5733618 | 31853 | 35852 | 11.154 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031432.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 18:58
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:17:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.793 | 454503 | 19.055 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.718 | 714491 | 21.556 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.423 | 976506 | 25.966 | ng/ml |
| 3) t | n-Heptane | 7.754 | 284660 | 7.885 | ng/ml |
| 4) t | Benzene | 7.893 | 415623 | 9.759 | ng/ml |
| 6) t | Toluene | 10.623 | 1127689 | 28.881 | ng/ml |
| 7) t | Ethylbenzene | 13.059 | 325697 | 9.405 | ng/ml |
| 8) t | m-Xylene | 13.193 | 701131 | 18.757 | ng/ml |
| 9) t | O-Xylene | 13.921 | 669399 | 18.796 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.197 | 518422 | 18.305 | ng/ml |

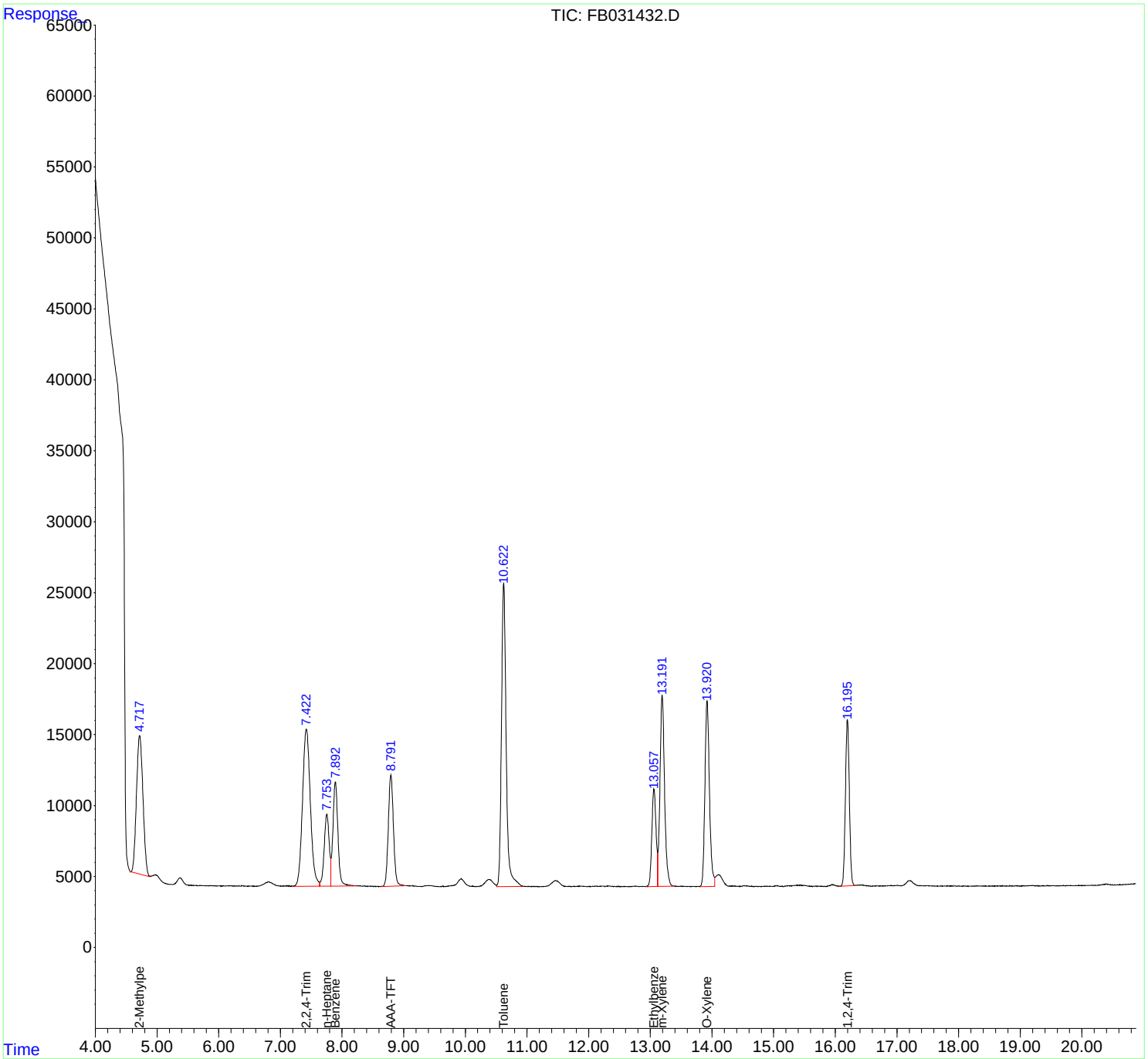
(f)=RT Delta > 1/2 Window (m)=manual int.

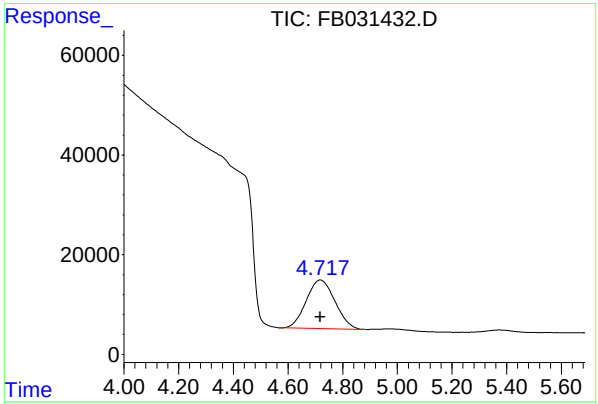
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031432.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 18:58
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:17:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

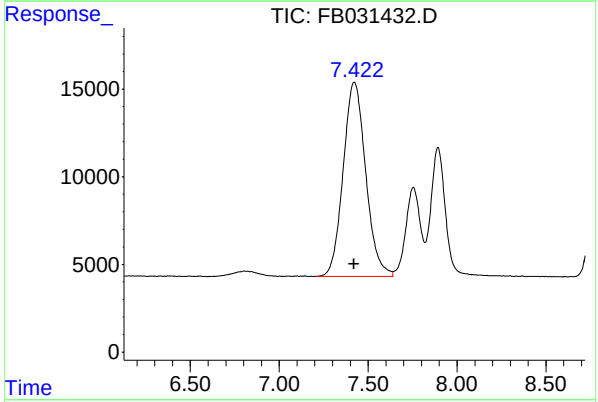





#1 2-Methylpentane

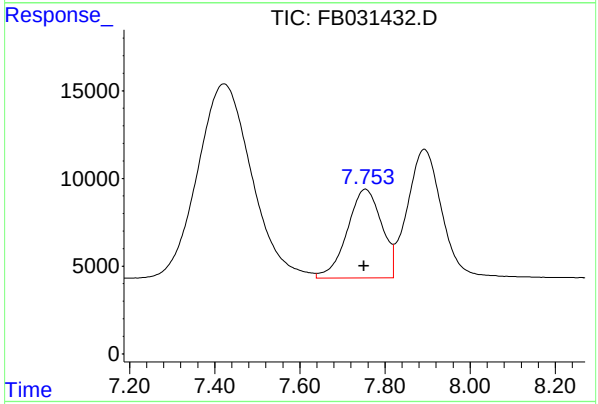
R.T.: 4.718 min
Delta R.T.: 0.000 min
Response: 714491
Conc: 21.56 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



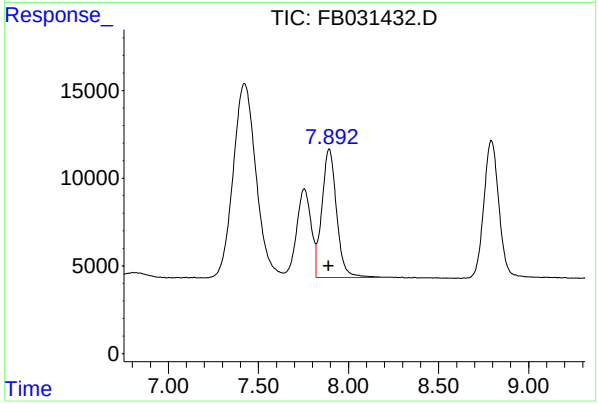

#2 2,2,4-Trimethylpentane

R.T.: 7.423 min
Delta R.T.: 0.003 min
Response: 976506
Conc: 25.97 ng/ml



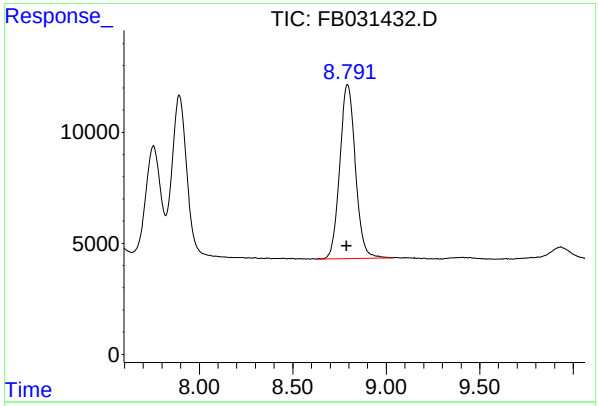

#3 n-Heptane

R.T.: 7.754 min
Delta R.T.: 0.003 min
Response: 284660
Conc: 7.89 ng/ml




#4 Benzene

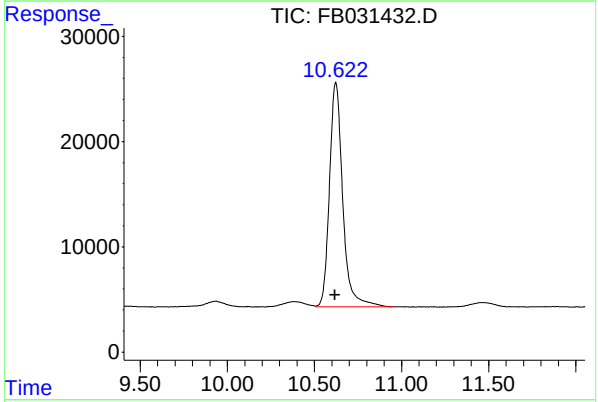
R.T.: 7.893 min
Delta R.T.: 0.003 min
Response: 415623
Conc: 9.76 ng/ml




#5 AAA-TFT

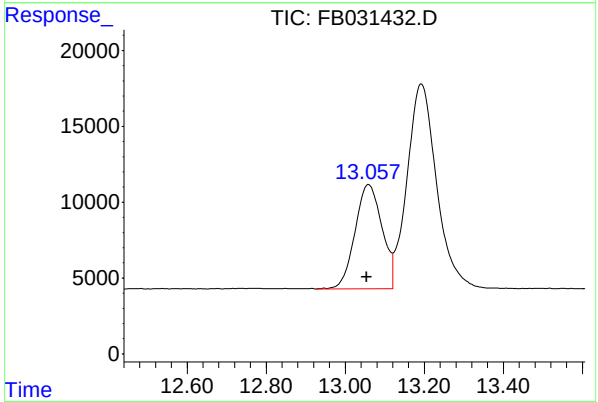
R.T.: 8.793 min
Delta R.T.: 0.003 min
Response: 454503
Conc: 19.05 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



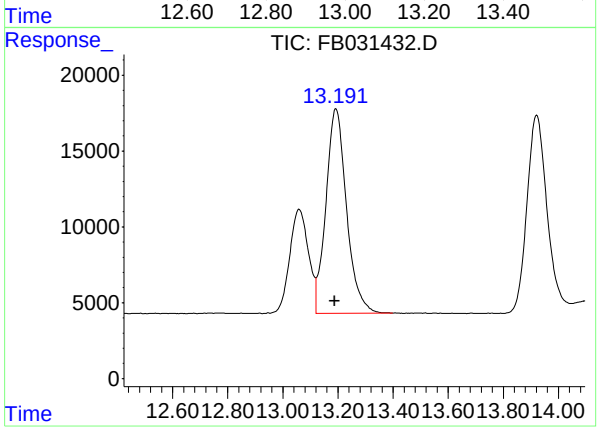

#6 Toluene

R.T.: 10.623 min
Delta R.T.: 0.005 min
Response: 1127689
Conc: 28.88 ng/ml



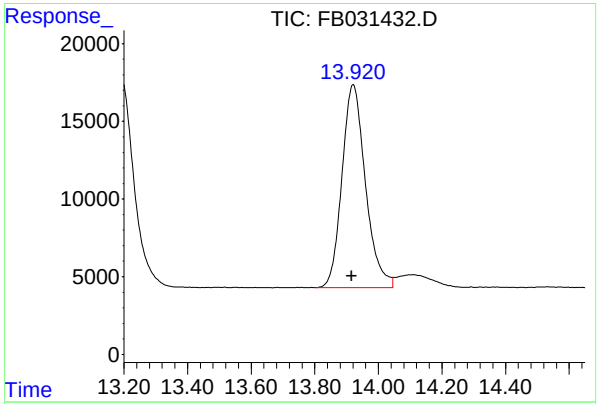

#7 Ethylbenzene

R.T.: 13.059 min
Delta R.T.: 0.005 min
Response: 325697
Conc: 9.41 ng/ml




#8 m-Xylene

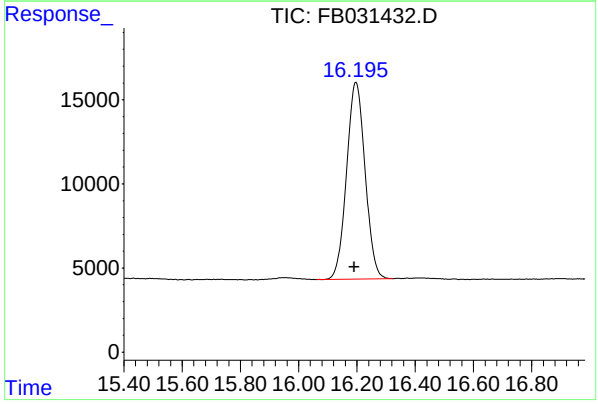
R.T.: 13.193 min
Delta R.T.: 0.005 min
Response: 701131
Conc: 18.76 ng/ml




#9 O-Xylene

R.T.: 13.921 min
Delta R.T.: 0.006 mi
Response: 669399
Conc: 18.80 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.197 min
Delta R.T.: 0.005 min
Response: 518422
Conc: 18.31 ng/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031432.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 18:58
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.718 | 4.565 | 4.886 | BV | 9757 | 714491 | 63.36% | 11.546% |
| 2 | 7.423 | 7.206 | 7.639 | VV | 11080 | 976506 | 86.59% | 15.780% |
| 3 | 7.754 | 7.639 | 7.820 | VV | 5070 | 284660 | 25.24% | 4.600% |
| 4 | 7.893 | 7.820 | 8.247 | VV | 7345 | 415623 | 36.86% | 6.716% |
| 5 | 8.793 | 8.623 | 9.035 | PV | 7841 | 454503 | 40.30% | 7.345% |
| 6 | 10.623 | 10.508 | 10.949 | VV | 21350 | 1127689 | 100.00% | 18.223% |
| 7 | 13.059 | 12.926 | 13.120 | PV | 6869 | 325697 | 28.88% | 5.263% |
| 8 | 13.193 | 13.120 | 13.399 | VV | 13494 | 701131 | 62.17% | 11.330% |
| 9 | 13.921 | 13.803 | 14.045 | BV | 13071 | 669399 | 59.36% | 10.817% |
| 10 | 16.197 | 16.060 | 16.324 | PV | 11710 | 518422 | 45.97% | 8.378% |

Sum of corrected areas: 6188121

FB011525.M Sat Feb 01 00:52:10 2025

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Fax : 908 789 8922

## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

DataFile: FB031438.D Analyst Name: YP/AJ Analyst Date: 01-31-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 5457080 | 30317 | 35852 | 15.438 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031438.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 22:32
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:39:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.794 | 406606 | 17.046 | ng/ml |
| | Target Compounds | | | | |
| 1) t | 2-Methylpentane | 4.723 | 683012 | 20.606 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.427 | 918448 | 24.422 | ng/ml |
| 3) t | n-Heptane | 7.756 | 275256 | 7.625 | ng/ml |
| 4) t | Benzene | 7.895 | 396808 | 9.317 | ng/ml |
| 6) t | Toluene | 10.624 | 1075712 | 27.550 | ng/ml |
| 7) t | Ethylbenzene | 13.061 | 308634 | 8.913 | ng/ml |
| 8) t | m-Xylene | 13.195 | 666898 | 17.841 | ng/ml |
| 9) t | O-Xylene | 13.922 | 637580 | 17.903 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.198 | 494732 | 17.469 | ng/ml |

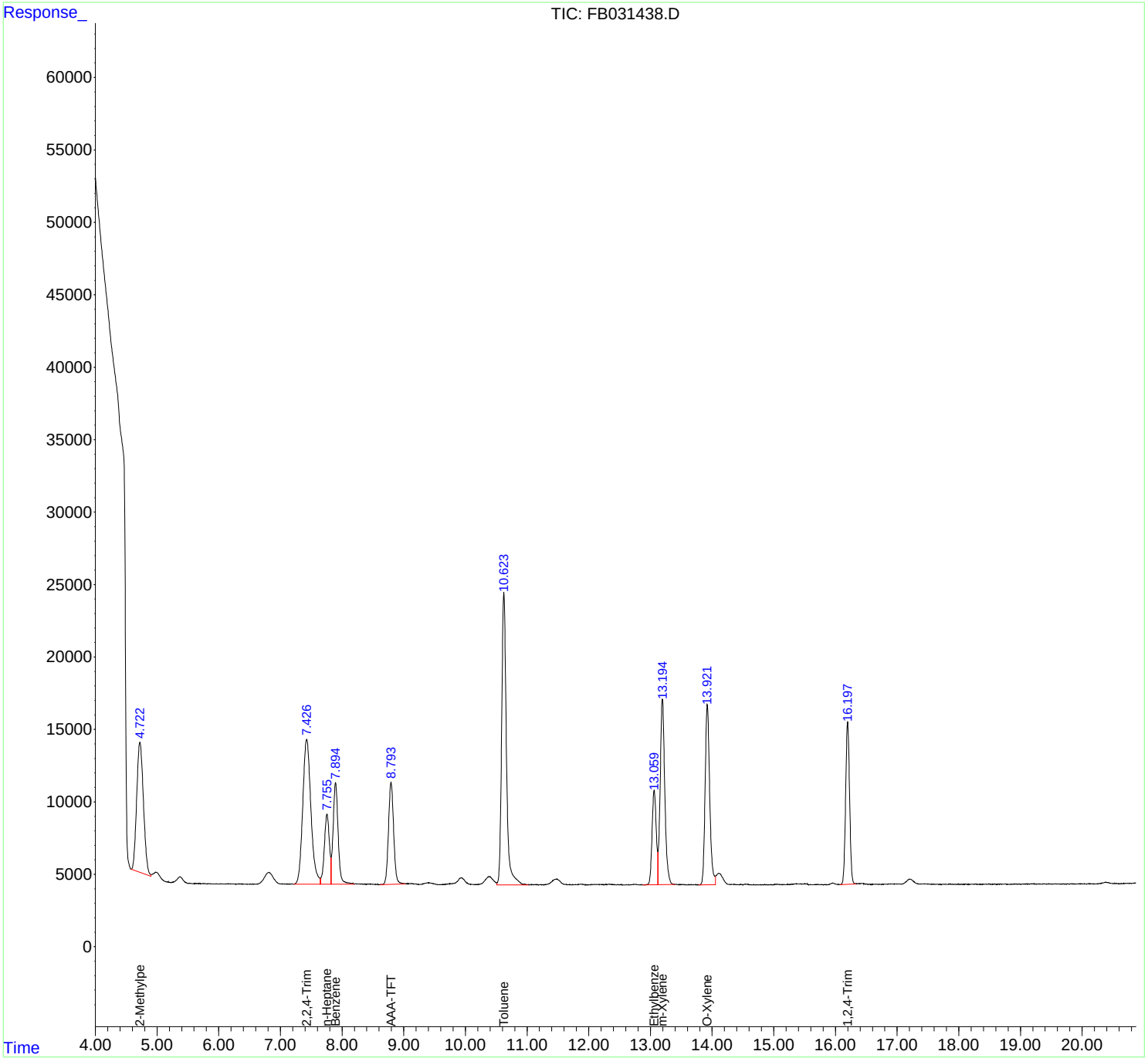
(f)=RT Delta > 1/2 Window (m)=manual int.

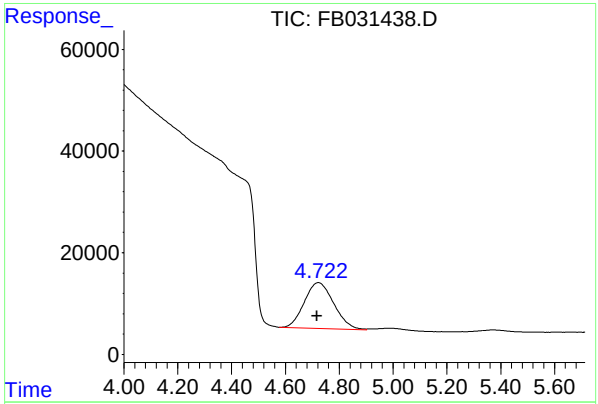
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031438.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 22:32
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 01 00:39:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

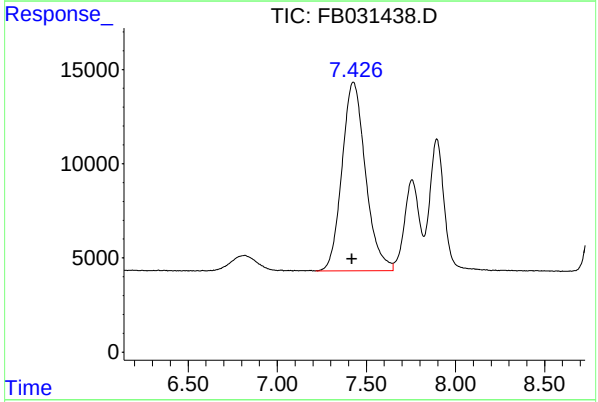





#1 2-Methylpentane

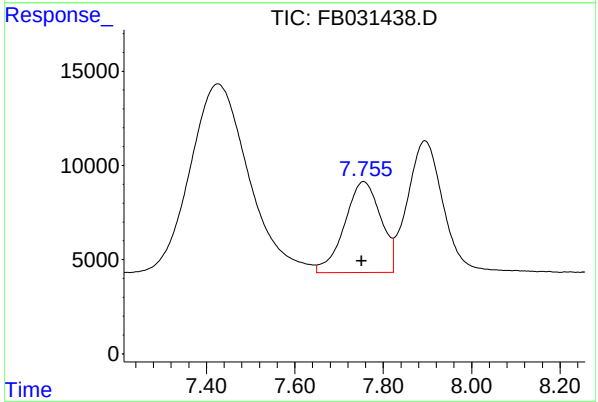
R.T.: 4.723 min
Delta R.T.: 0.005 min
Response: 683012
Conc: 20.61 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



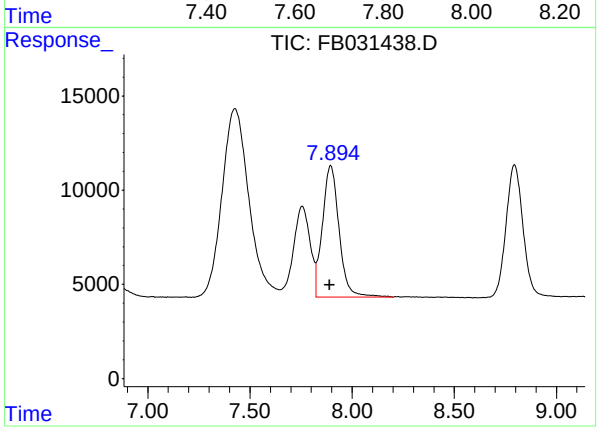

#2 2,2,4-Trimethylpentane

R.T.: 7.427 min
Delta R.T.: 0.008 min
Response: 918448
Conc: 24.42 ng/ml



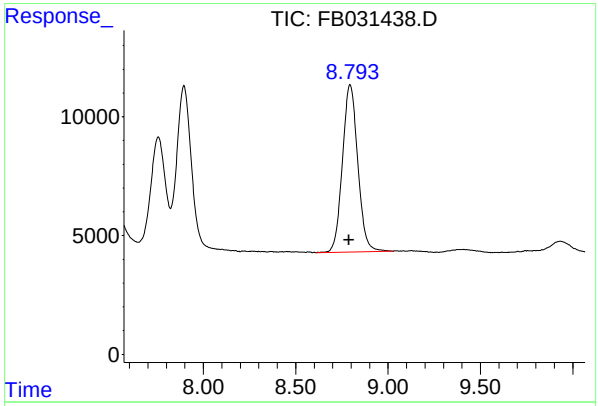

#3 n-Heptane

R.T.: 7.756 min
Delta R.T.: 0.005 min
Response: 275256
Conc: 7.63 ng/ml




#4 Benzene

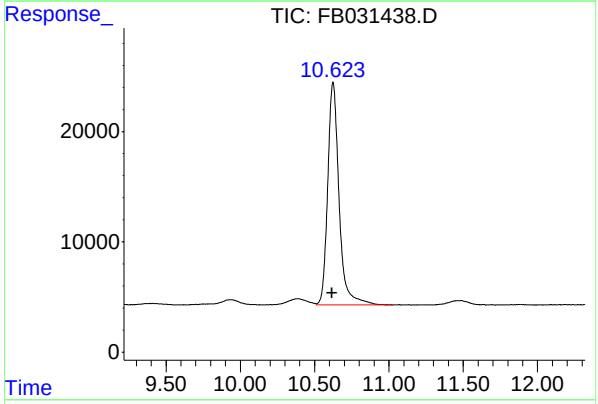
R.T.: 7.895 min
Delta R.T.: 0.005 min
Response: 396808
Conc: 9.32 ng/ml




#5 AAA-TFT

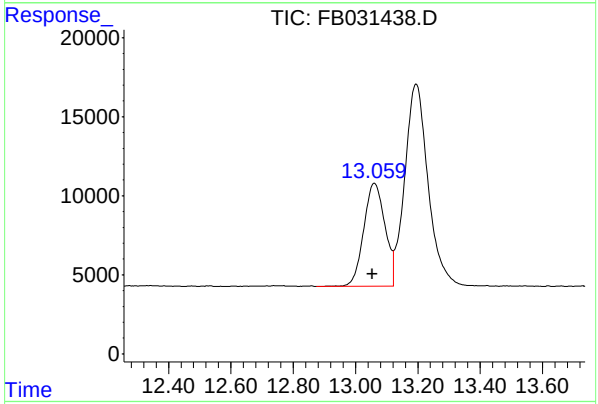
R.T.: 8.794 min
Delta R.T.: 0.005 min
Response: 406606
Conc: 17.05 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



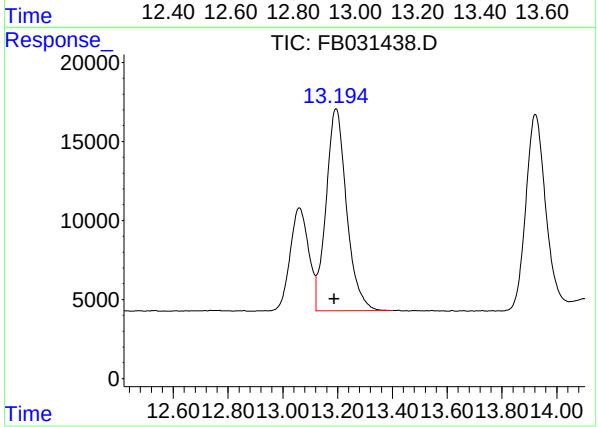

#6 Toluene

R.T.: 10.624 min
Delta R.T.: 0.006 min
Response: 1075712
Conc: 27.55 ng/ml



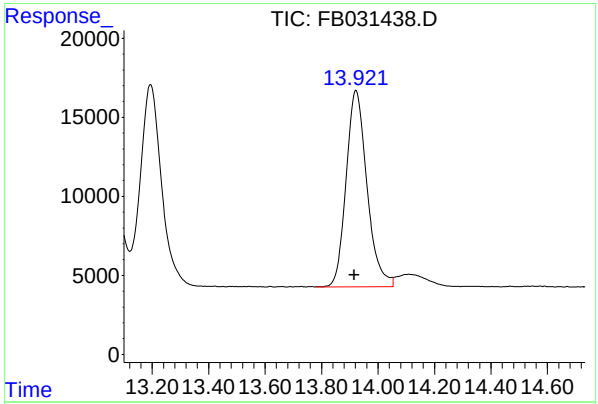

#7 Ethylbenzene

R.T.: 13.061 min
Delta R.T.: 0.006 min
Response: 308634
Conc: 8.91 ng/ml




#8 m-Xylene

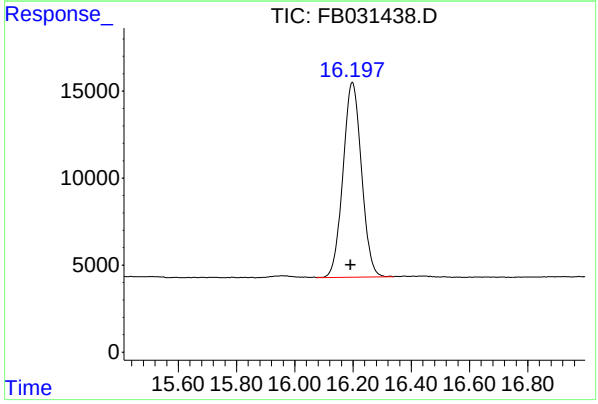
R.T.: 13.195 min
Delta R.T.: 0.007 min
Response: 666898
Conc: 17.84 ng/ml




#9 O-Xylene

R.T.: 13.922 min
Delta R.T.: 0.007 min
Response: 637580
Conc: 17.90 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.198 min
Delta R.T.: 0.006 min
Response: 494732
Conc: 17.47 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031438.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 22:32
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.723 | 4.576 | 4.901 | BV | 8994 | 683012 | 63.49% | 11.648% |
| 2 | 7.427 | 7.218 | 7.649 | BV | 10012 | 918448 | 85.38% | 15.663% |
| 3 | 7.756 | 7.649 | 7.823 | VV | 4836 | 275256 | 25.59% | 4.694% |
| 4 | 7.895 | 7.823 | 8.200 | VV | 6993 | 396808 | 36.89% | 6.767% |
| 5 | 8.794 | 8.610 | 9.027 | PV | 7049 | 406606 | 37.80% | 6.934% |
| 6 | 10.624 | 10.510 | 11.028 | VV | 20201 | 1075712 | 100.00% | 18.345% |
| 7 | 13.061 | 12.874 | 13.121 | PV | 6530 | 308634 | 28.69% | 5.263% |
| 8 | 13.195 | 13.121 | 13.402 | VV | 12793 | 666898 | 62.00% | 11.373% |
| 9 | 13.922 | 13.781 | 14.053 | BV | 12438 | 637580 | 59.27% | 10.873% |
| 10 | 16.198 | 16.074 | 16.339 | PV | 11198 | 494732 | 45.99% | 8.437% |

Sum of corrected areas: 5863685

FB011525.M Sat Feb 01 00:52:57 2025

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Fax : 908 789 8922

## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

DataFile: FB031439.D Analyst Name: YP/AJ Analyst Date: 02-03-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 5240743 | 29115 | 35852 | 18.791 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031439.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 11:08
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 04 00:18:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.789 | 466641 | 19.563 | ng/ml |
| | Target Compounds | | | | |
| 1) t | 2-Methylpentane | 4.716 | 581634 | 17.548 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.416 | 861854 | 22.917 | ng/ml |
| 3) t | n-Heptane | 7.750 | 226219 | 6.267 | ng/ml |
| 4) t | Benzene | 7.888 | 368656 | 8.656 | ng/ml |
| 6) t | Toluene | 10.617 | 1033556 | 26.470 | ng/ml |
| 7) t | Ethylbenzene | 13.054 | 313454 | 9.052 | ng/ml |
| 8) t | m-Xylene | 13.186 | 676581 | 18.100 | ng/ml |
| 9) t | O-Xylene | 13.914 | 649107 | 18.226 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.191 | 529682 | 18.703 | ng/ml |

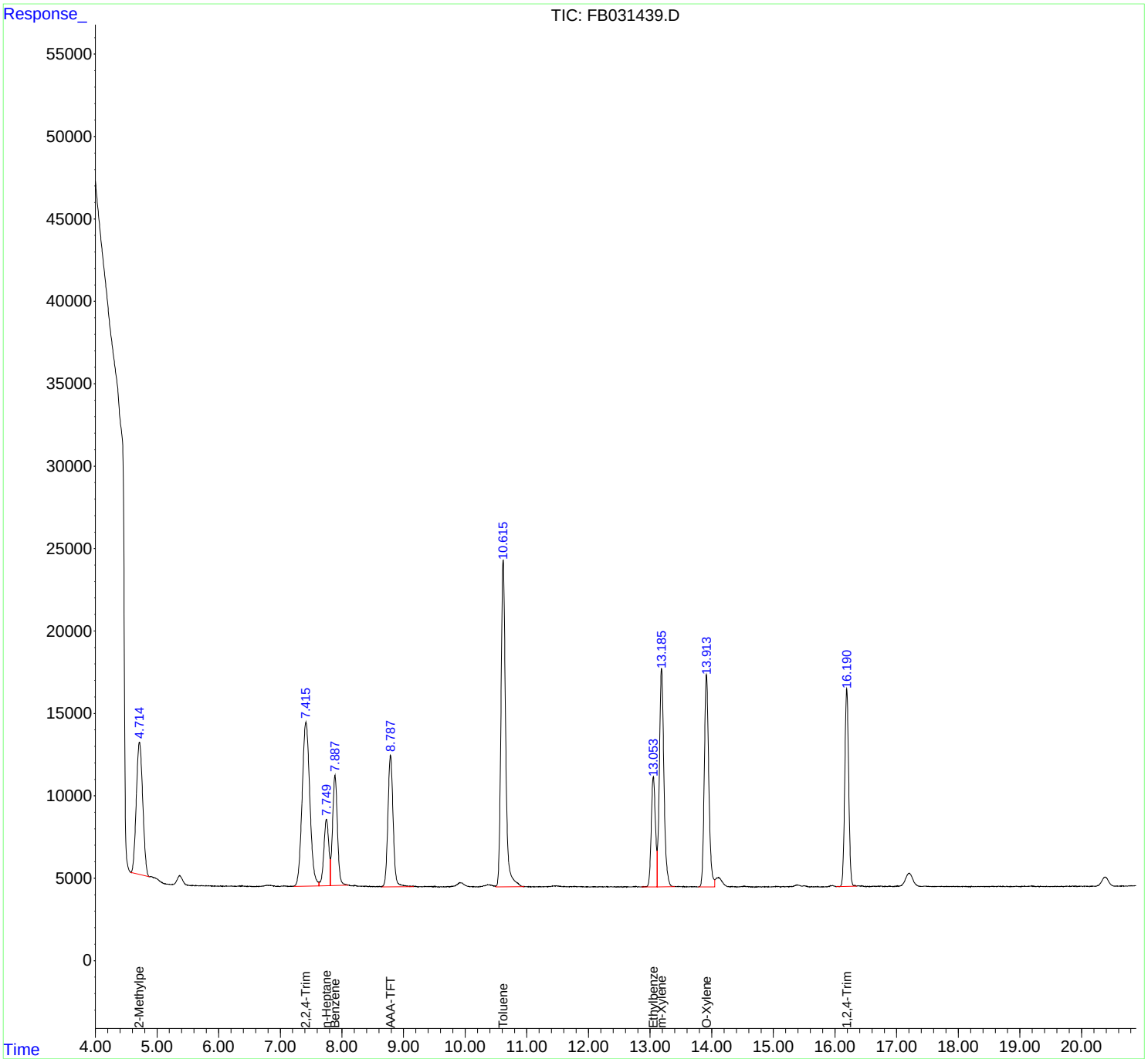
(f)=RT Delta > 1/2 Window (m)=manual int.

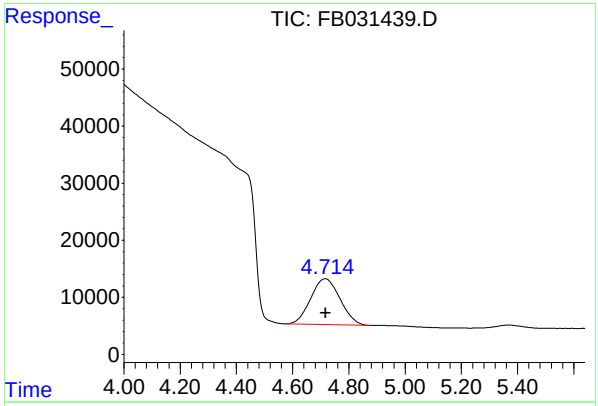
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031439.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 11:08
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

Integration File: Calibration.e
Quant Time: Feb 04 00:18:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

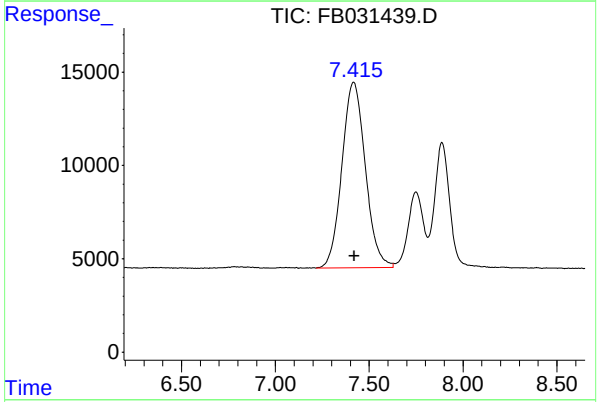





#1 2-Methylpentane

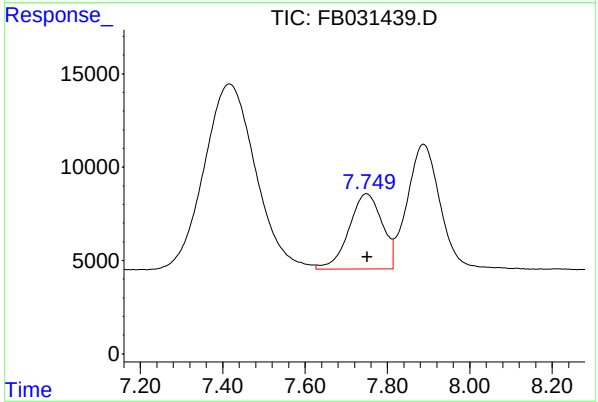
R.T.: 4.716 min
Delta R.T.: -0.002 min
Response: 581634
Conc: 17.55 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



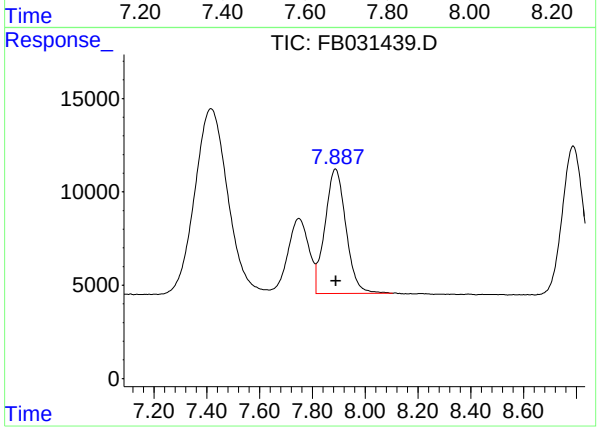

#2 2,2,4-Trimethylpentane

R.T.: 7.416 min
Delta R.T.: -0.003 min
Response: 861854
Conc: 22.92 ng/ml



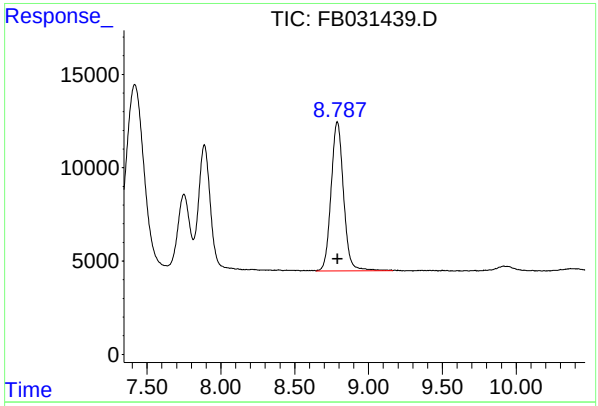

#3 n-Heptane

R.T.: 7.750 min
Delta R.T.: -0.001 min
Response: 226219
Conc: 6.27 ng/ml




#4 Benzene

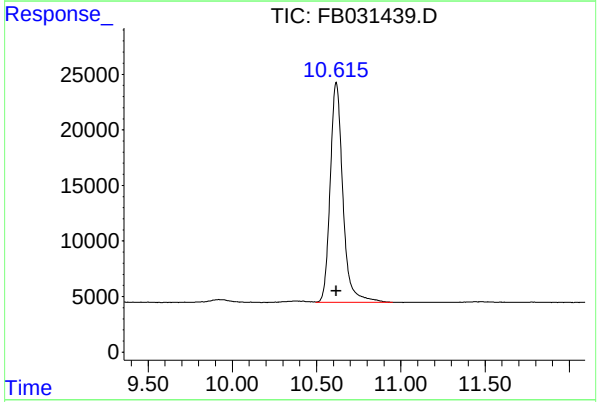
R.T.: 7.888 min
Delta R.T.: -0.002 min
Response: 368656
Conc: 8.66 ng/ml




#5 AAA-TFT

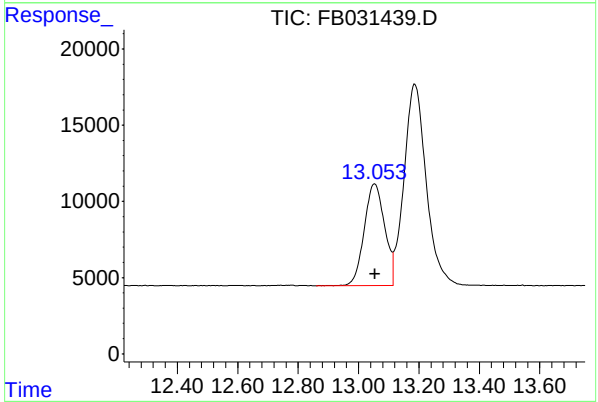
R.T.: 8.789 min
Delta R.T.: -0.001 min
Response: 466641
Conc: 19.56 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD



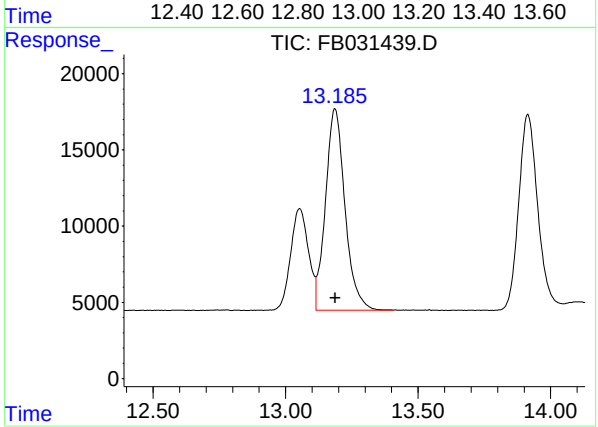

#6 Toluene

R.T.: 10.617 min
Delta R.T.: 0.000 min
Response: 1033556
Conc: 26.47 ng/ml



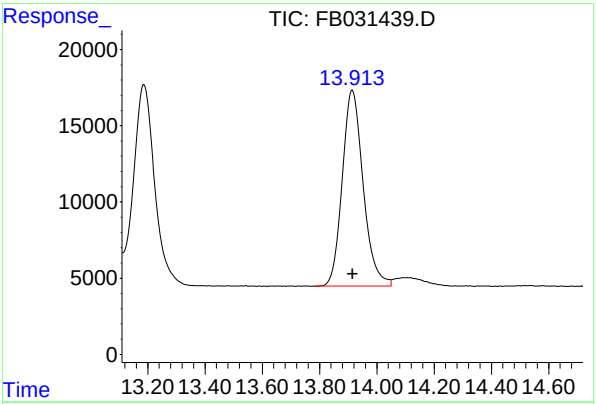

#7 Ethylbenzene

R.T.: 13.054 min
Delta R.T.: 0.000 min
Response: 313454
Conc: 9.05 ng/ml




#8 m-Xylene

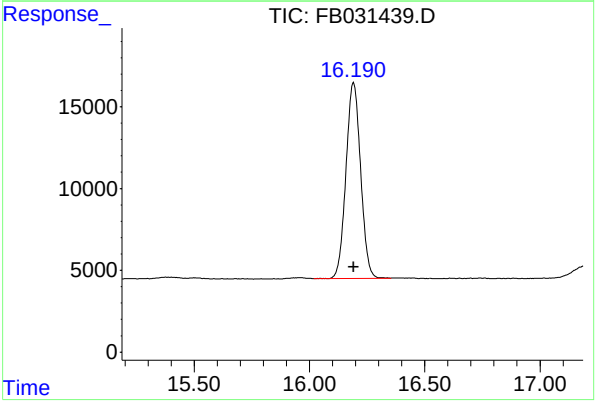
R.T.: 13.186 min
Delta R.T.: -0.002 min
Response: 676581
Conc: 18.10 ng/ml




#9 O-Xylene

R.T.: 13.914 min
Delta R.T.: -0.001 min
Response: 649107
Conc: 18.23 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD




#10 1,2,4-Trimethylbenzene

R.T.: 16.191 min
Delta R.T.: -0.001 min
Response: 529682
Conc: 18.70 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031439.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 11:08
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.716 | 4.571 | 4.877 | BV | 8031 | 581634 | 56.28% | 10.191% |
| 2 | 7.416 | 7.217 | 7.626 | PV | 9946 | 861854 | 83.39% | 15.101% |
| 3 | 7.750 | 7.626 | 7.814 | VV | 4035 | 226219 | 21.89% | 3.964% |
| 4 | 7.888 | 7.814 | 8.105 | VV | 6677 | 368656 | 35.67% | 6.459% |
| 5 | 8.789 | 8.645 | 9.166 | PV | 7983 | 466641 | 45.15% | 8.176% |
| 6 | 10.617 | 10.496 | 10.953 | VV | 19821 | 1033556 | 100.00% | 18.109% |
| 7 | 13.054 | 12.859 | 13.114 | BV | 6687 | 313454 | 30.33% | 5.492% |
| 8 | 13.186 | 13.114 | 13.405 | VV | 13226 | 676581 | 65.46% | 11.854% |
| 9 | 13.914 | 13.781 | 14.050 | BV | 12865 | 649107 | 62.80% | 11.373% |
| 10 | 16.191 | 16.018 | 16.352 | PV | 11992 | 529682 | 51.25% | 9.281% |

Sum of corrected areas: 5707387

FB011525.M Tue Feb 04 00:36:27 2025

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Fax : 908 789 8922

## GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

**20 PPB GRO STD**

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1232 SAS No.: Q1232 SDG No.: Q1232

DataFile: FB031448.D Analyst Name: YP/AJ Analyst Date: 02-03-2025

| Conc. (PPB) | Area Count | RF | Average RF | %D |
|---|---|---|---|---|
| 180 | 5465969 | 30366 | 35852 | 15.302 |

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031448.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 15:34
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Integration File: Calibration.e
Quant Time: Feb 04 00:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.792 | 454659 | 19.061 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.720 | 626315 | 18.896 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.422 | 874527 | 23.254 | ng/mlm |
| 3) t | n-Heptane | 7.753 | 265070 | 7.343 | ng/ml |
| 4) t | Benzene | 7.892 | 395019 | 9.275 | ng/ml |
| 6) t | Toluene | 10.621 | 1103370 | 28.258 | ng/ml |
| 7) t | Ethylbenzene | 13.057 | 322140 | 9.303 | ng/ml |
| 8) t | m-Xylene | 13.191 | 694396 | 18.577 | ng/ml |
| 9) t | O-Xylene | 13.920 | 660948 | 18.559 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.195 | 524184 | 18.509 | ng/ml |

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031448.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 15:34
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

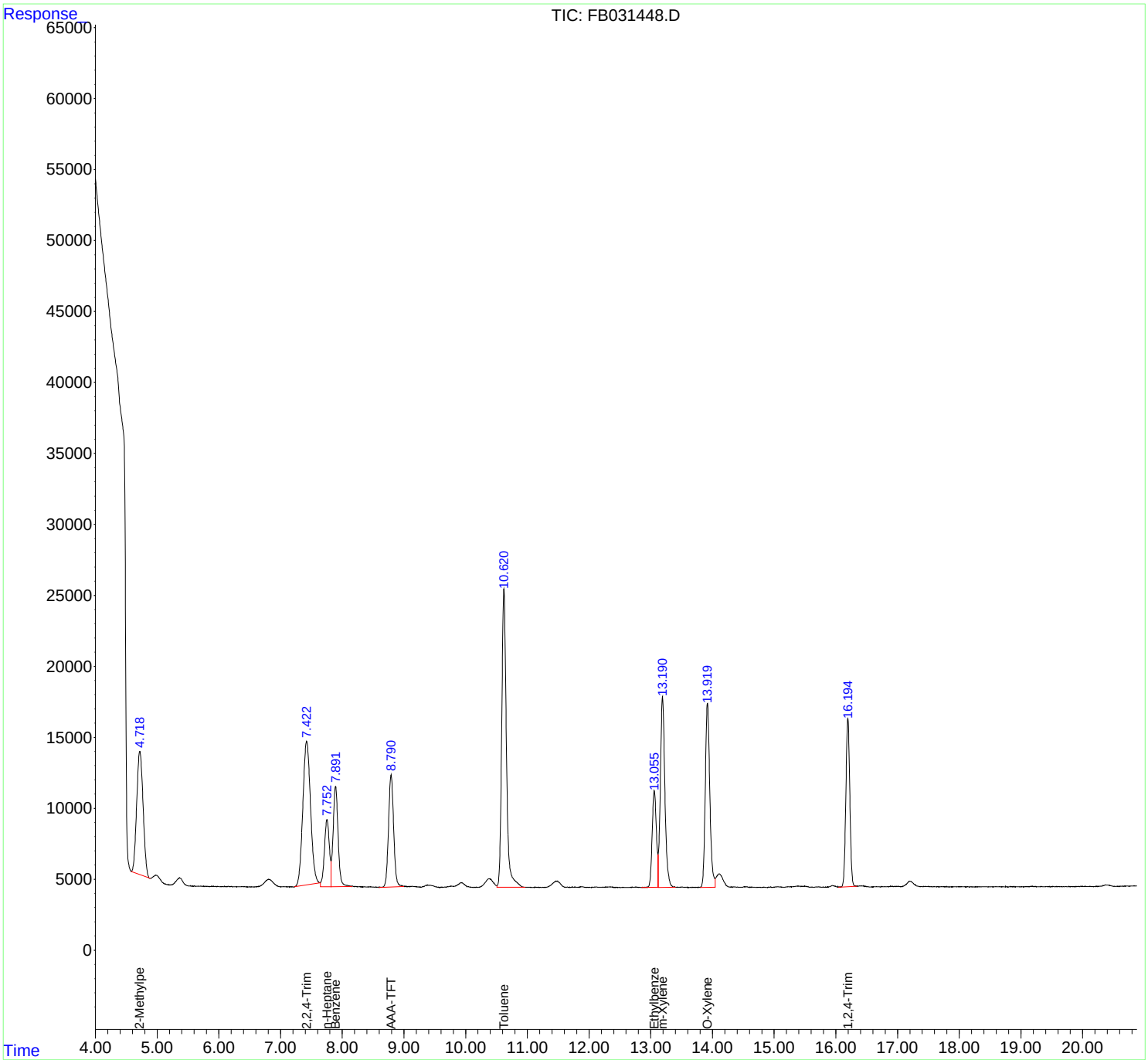
Integration File: Calibration.e
Quant Time: Feb 04 00:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

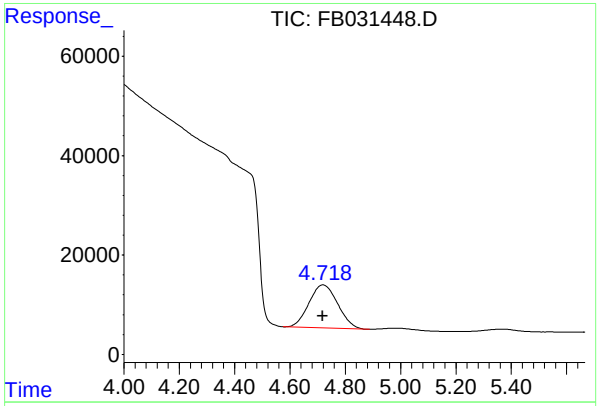
Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025





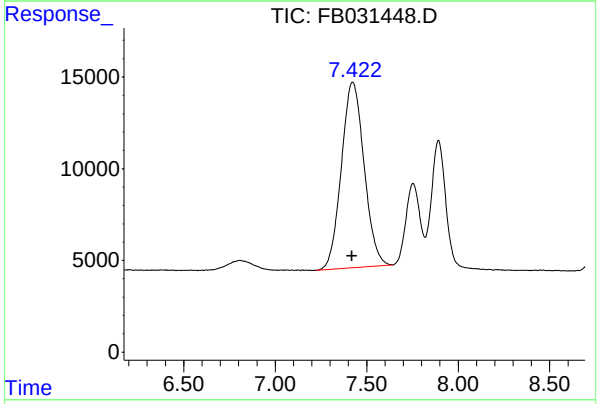

#1 2-Methylpentane

R.T.: 4.720 min
Delta R.T.: 0.002 mi
Response: 626315
Conc: 18.90 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

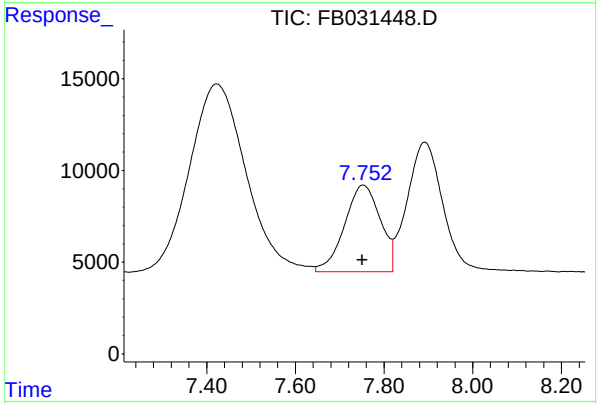
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025



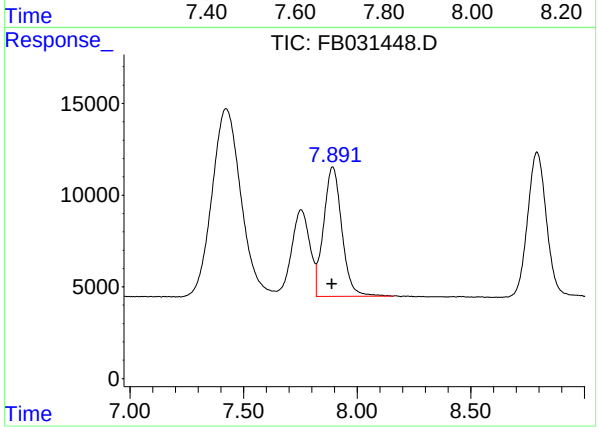

#2 2,2,4-Trimethylpentane

R.T.: 7.422 min
Delta R.T.: 0.002 min
Response: 874527
Conc: 23.25 ng/ml m



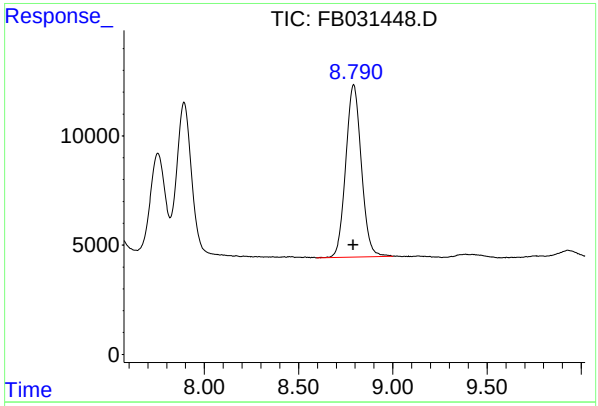

#3 n-Heptane

R.T.: 7.753 min
Delta R.T.: 0.002 min
Response: 265070
Conc: 7.34 ng/ml




#4 Benzene

R.T.: 7.892 min
Delta R.T.: 0.003 min
Response: 395019
Conc: 9.27 ng/ml



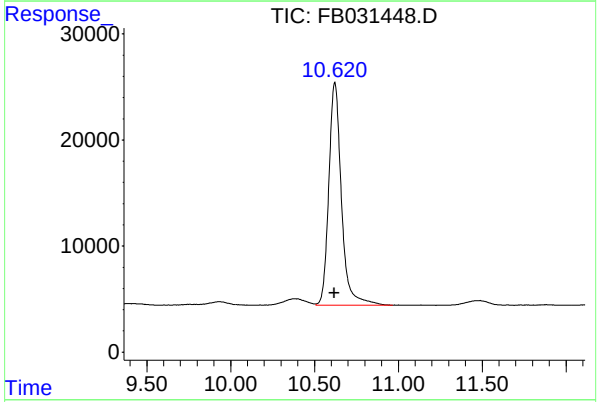

#5 AAA-TFT

R.T.: 8.792 min
Delta R.T.: 0.002 min
Response: 454659
Conc: 19.06 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

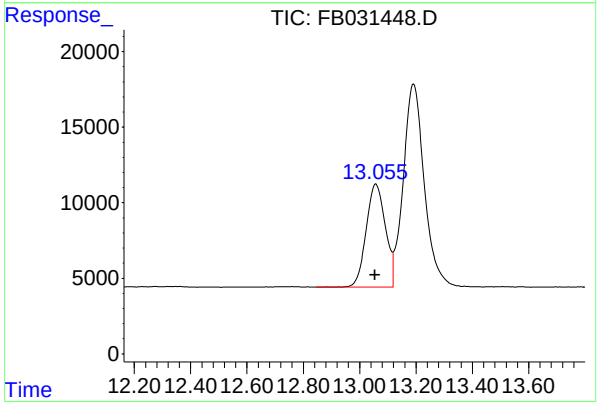
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025



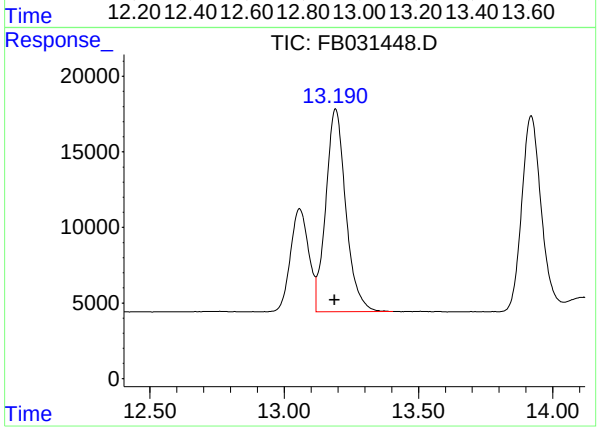

#6 Toluene

R.T.: 10.621 min
Delta R.T.: 0.004 min
Response: 1103370
Conc: 28.26 ng/ml



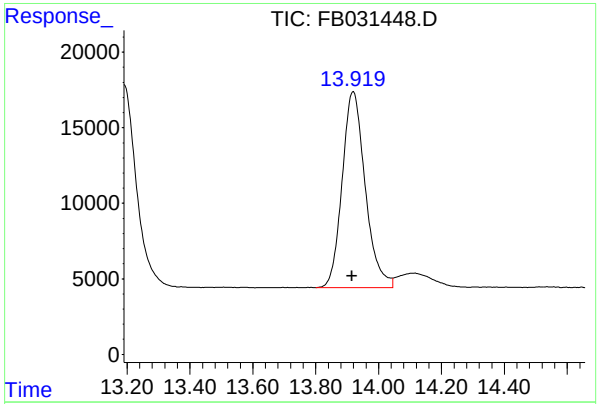

#7 Ethylbenzene

R.T.: 13.057 min
Delta R.T.: 0.003 min
Response: 322140
Conc: 9.30 ng/ml




#8 m-Xylene

R.T.: 13.191 min
Delta R.T.: 0.003 min
Response: 694396
Conc: 18.58 ng/ml



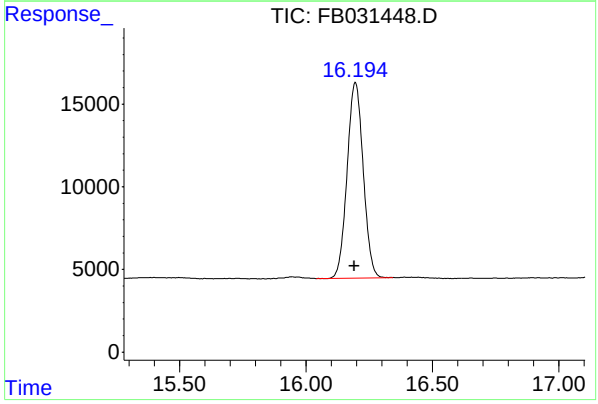

#9 O-Xylene

R.T.: 13.920 min
Delta R.T.: 0.004 mi
Response: 660948
Conc: 18.56 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
20 PPB GRO STD

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025




#10 1,2,4-Trimethylbenzene

R.T.: 16.195 min
Delta R.T.: 0.003 min
Response: 524184
Conc: 18.51 ng/ml

**Instrument :**
FID_B
**LabSampleId :**
20 PPB GRO STD

rteres

Area Percent Report

**Manual IntegrationsAPPROVED**

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB02032
Data File : FB031448.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 15:34
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.720 | 4.576 | 4.888 | BV | 8686 | 626315 | 56.76% | 10.515% |
| 2 | 7.423 | 7.226 | 7.646 | PV | 10263 | 910579 | 82.53% | 15.287% |
| 3 | 7.754 | 7.646 | 7.819 | VV | 4730 | 265070 | 24.02% | 4.450% |
| 4 | 7.892 | 7.819 | 8.158 | VV | 7065 | 395019 | 35.80% | 6.632% |
| 5 | 8.792 | 8.593 | 9.002 | PV | 7896 | 454659 | 41.21% | 7.633% |
| 6 | 10.621 | 10.508 | 10.967 | VV | 21019 | 1103370 | 100.00% | 18.523% |
| 7 | 13.057 | 12.845 | 13.118 | BV | 6828 | 322140 | 29.20% | 5.408% |
| 8 | 13.191 | 13.118 | 13.405 | VV | 13431 | 694396 | 62.93% | 11.657% |
| 9 | 13.920 | 13.800 | 14.045 | PV | 12971 | 660948 | 59.90% | 11.096% |
| 10 | 16.195 | 16.040 | 16.344 | PV | 11848 | 524184 | 47.51% | 8.800% |

Sum of corrected areas: 5956681

FB011525.M Tue Feb 04 00:39:13 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Analytical Sequence

**Client:** RU2 Engineering, LLC **SDG No.:** Q1232

**Project:** NYCDDC SANTWOBR Brooklyn Bridge BBMCR **Instrument ID:** FID_B

**GC Column:** RTX-502.2 **ID:** 0.53 **(mm)**

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

**MEAN SUROGATE RT FROM INITIAL CALIBRATION** **8.7886**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE AND TIME ANALYZED | DATAFILE | RT | # |
|---|---|---|---|---|---|
| 20 PPB GRO STD | 20 PPB GRO STD | 31 Jan 2025 9:03 | FB031412.D | 8.786 | |
| VBF0131S1 | VBF0131S1 | 31 Jan 2025 9:41 | FB031413.D | 8.789 | |
| BSF0131S1 | BSF0131S1 | 31 Jan 2025 10:47 | FB031415.D | 8.791 | |
| BSF0131S2 | BSF0131S2 | 31 Jan 2025 13:12 | FB031420.D | 8.792 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 31 Jan 2025 13:38 | FB031421.D | 8.791 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 31 Jan 2025 18:58 | FB031432.D | 8.793 | |
| JPP-46.2-012925 | Q1232-01 | 31 Jan 2025 20:45 | FB031435.D | 8.794 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 31 Jan 2025 22:32 | FB031438.D | 8.794 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 3 Feb 2025 11:08 | FB031439.D | 8.789 | |
| VBF0203S1 | VBF0203S1 | 3 Feb 2025 11:47 | FB031440.D | 8.789 | |
| BSF0203S1 | BSF0203S1 | 3 Feb 2025 12:40 | FB031442.D | 8.792 | |
| JPP-46.1-012925 | Q1232-05 | 3 Feb 2025 13:20 | FB031443.D | 8.791 | |
| JPP-42.1-012925 | Q1232-09 | 3 Feb 2025 13:47 | FB031444.D | 8.792 | |
| JPP-42.2-012925 | Q1232-13 | 3 Feb 2025 14:14 | FB031445.D | 8.793 | |
| JPP-51.1-012925 | Q1232-17 | 3 Feb 2025 14:40 | FB031446.D | 8.792 | |
| 20 PPB GRO STD | 20 PPB GRO STD | 3 Feb 2025 15:34 | FB031448.D | 8.792 | |

**# Column used to flag RT values with an * values outside of QC limits**

| QC Limits | Lower Limit | Upper Limits |
|---|---|---|
| (± 0.10 minutes) | 8.6886 | 8.8886 |

# QC SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | |
| Client Sample ID: | VBF0131S1 | SDG No.: | Q1232 |
| Lab Sample ID: | VBF0131S1 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031413.D | 1 | 01/31/25 9:41 | FB013125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 45.0 | U | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 20.6 | | 50 - 150 | 103% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031413.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 9:41
Operator : YP/AJ
Sample : VBF0131S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
VBF0131S1

Integration File: Calibration.e
Quant Time: Feb 01 00:15:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.789 | 491120 | 20.590 ng/ml |
| Target Compounds | | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

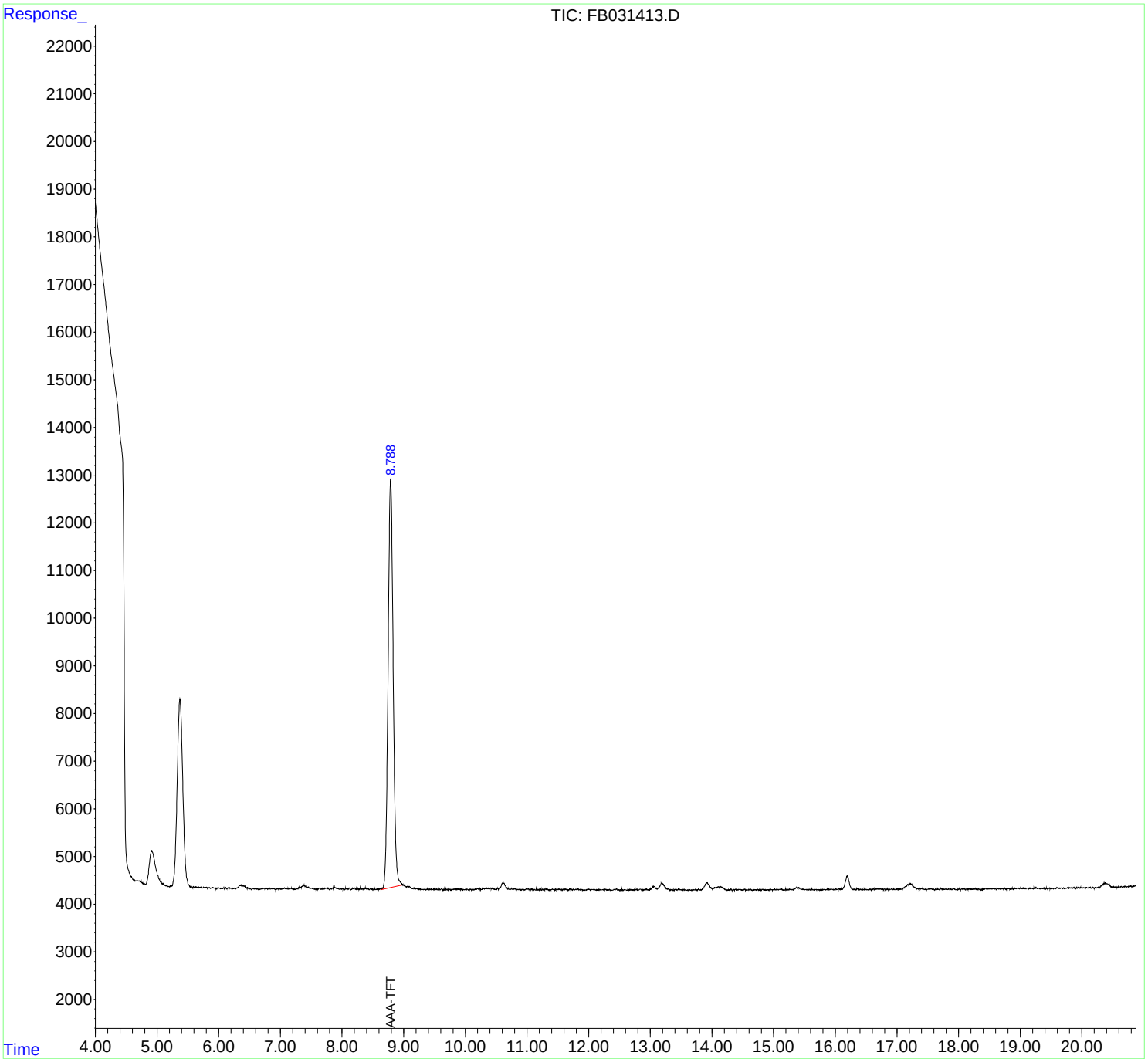
Quantitation Report (QT Reviewed)

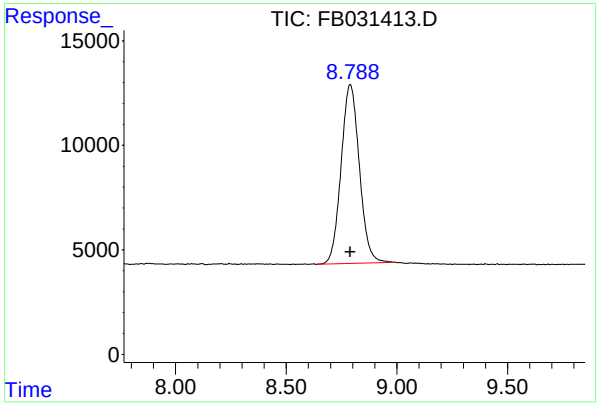
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031413.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 9:41
Operator : YP/AJ
Sample : VBF0131S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
VBF0131S1

Integration File: Calibration.e
Quant Time: Feb 01 00:15:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.789 min
Delta R.T.: 0.000 mi
Response: 491120
Conc: 20.59 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
VBF0131S1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031413.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 9:41
Sample : VBF0131S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 8.789 | 8.635 | 8.982 | PV | 8568 | 491120 | 100.00% | 100.000% |

Sum of corrected areas: 491120

FB011525.M Sat Feb 01 00:45:51 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | |
| Client Sample ID: | VBF0203S1 | SDG No.: | Q1232 |
| Lab Sample ID: | VBF0203S1 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031440.D | 1 | 02/03/25 11:47 | FB020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 45.0 | U | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 18.5 | | 50 - 150 | 92% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031440.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 11:47
Operator : YP/AJ
Sample : VBF0203S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
VBF0203S1

Integration File: Calibration.e
Quant Time: Feb 04 00:18:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc Units |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 5) s | AAA-TFT | 8.789 | 440367 | 18.462 ng/ml |
| Target Compounds | | | | |

(f)=RT Delta > 1/2 Window (m)=manual int.

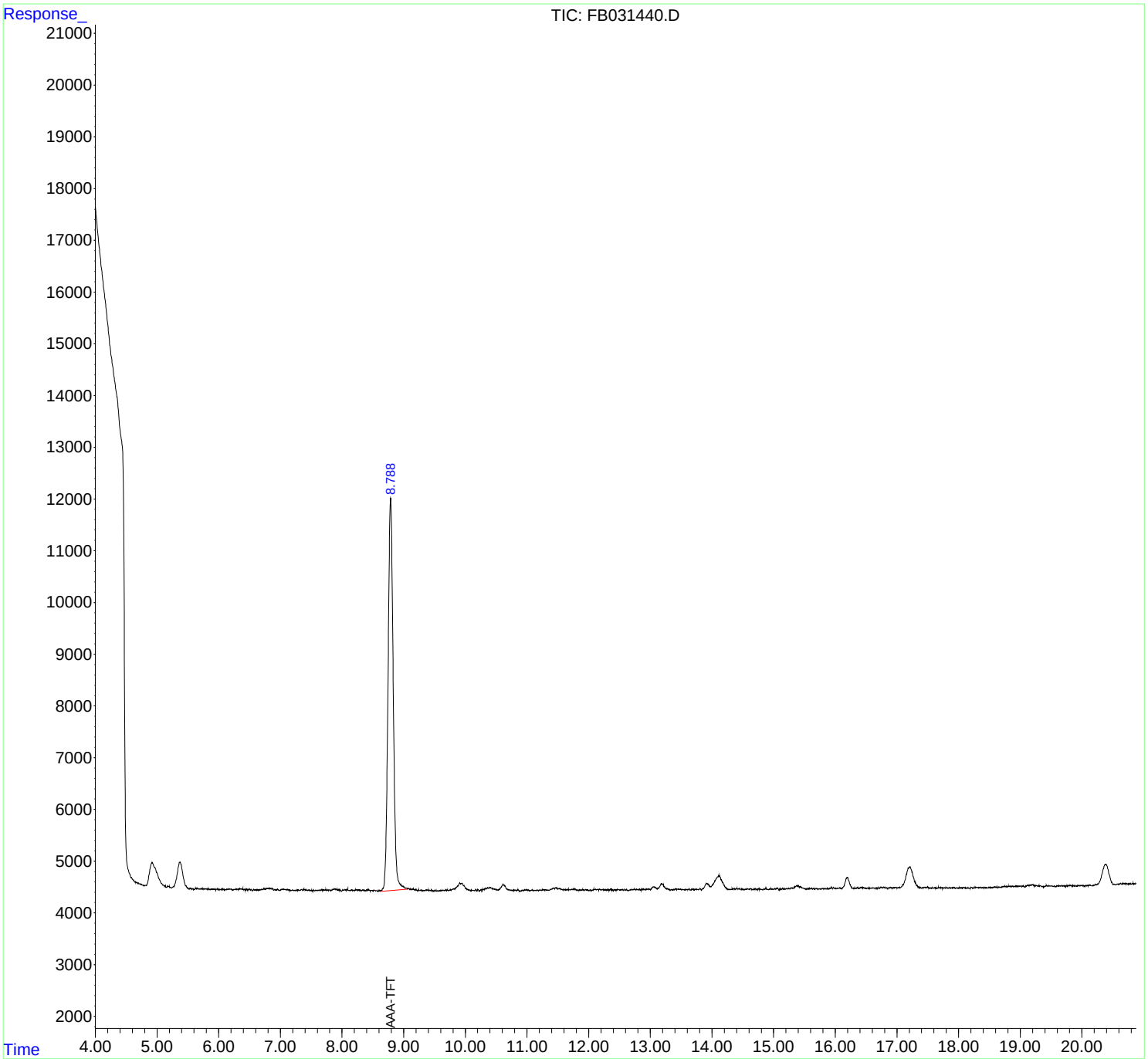
Quantitation Report (QT Reviewed)

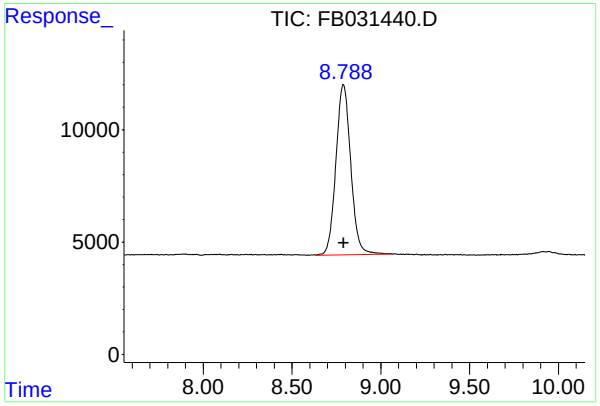
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031440.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 11:47
Operator : YP/AJ
Sample : VBF0203S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
VBF0203S1

Integration File: Calibration.e
Quant Time: Feb 04 00:18:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um






#5 AAA-TFT

R.T.: 8.789 min
Delta R.T.: 0.000 mi
Response: 440367
Conc: 18.46 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
VBF0203S1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031440.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 11:47
Sample : VBF0203S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 8.789 | 8.635 | 9.068 | VV | 7583 | 440367 | 100.00% | 100.000% |

Sum of corrected areas: 440367

FB011525.M Tue Feb 04 00:36:56 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | |
| Client Sample ID: | BSF0131S1 | SDG No.: | Q1232 |
| Lab Sample ID: | BSF0131S1 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031415.D | 1 | 01/31/25 10:47 | FB013125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 173 | | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 19.5 | | 50 - 150 | 98% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031415.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 10:47
Operator : YP/AJ
Sample : BSF0131S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S1

Integration File: Calibration.e
Quant Time: Feb 01 00:15:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.791 | 465280 | 19.506 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.717 | 811202 | 24.474 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.418 | 1064822 | 28.314 | ng/ml |
| 3) t | n-Heptane | 7.752 | 296600 | 8.216 | ng/ml |
| 4) t | Benzene | 7.890 | 440565 | 10.344 | ng/ml |
| 6) t | Toluene | 10.620 | 1190505 | 30.489 | ng/ml |
| 7) t | Ethylbenzene | 13.058 | 351965 | 10.164 | ng/ml |
| 8) t | m-Xylene | 13.191 | 763097 | 20.415 | ng/ml |
| 9) t | O-Xylene | 13.919 | 721578 | 20.261 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.196 | 566218 | 19.993 | ng/ml |

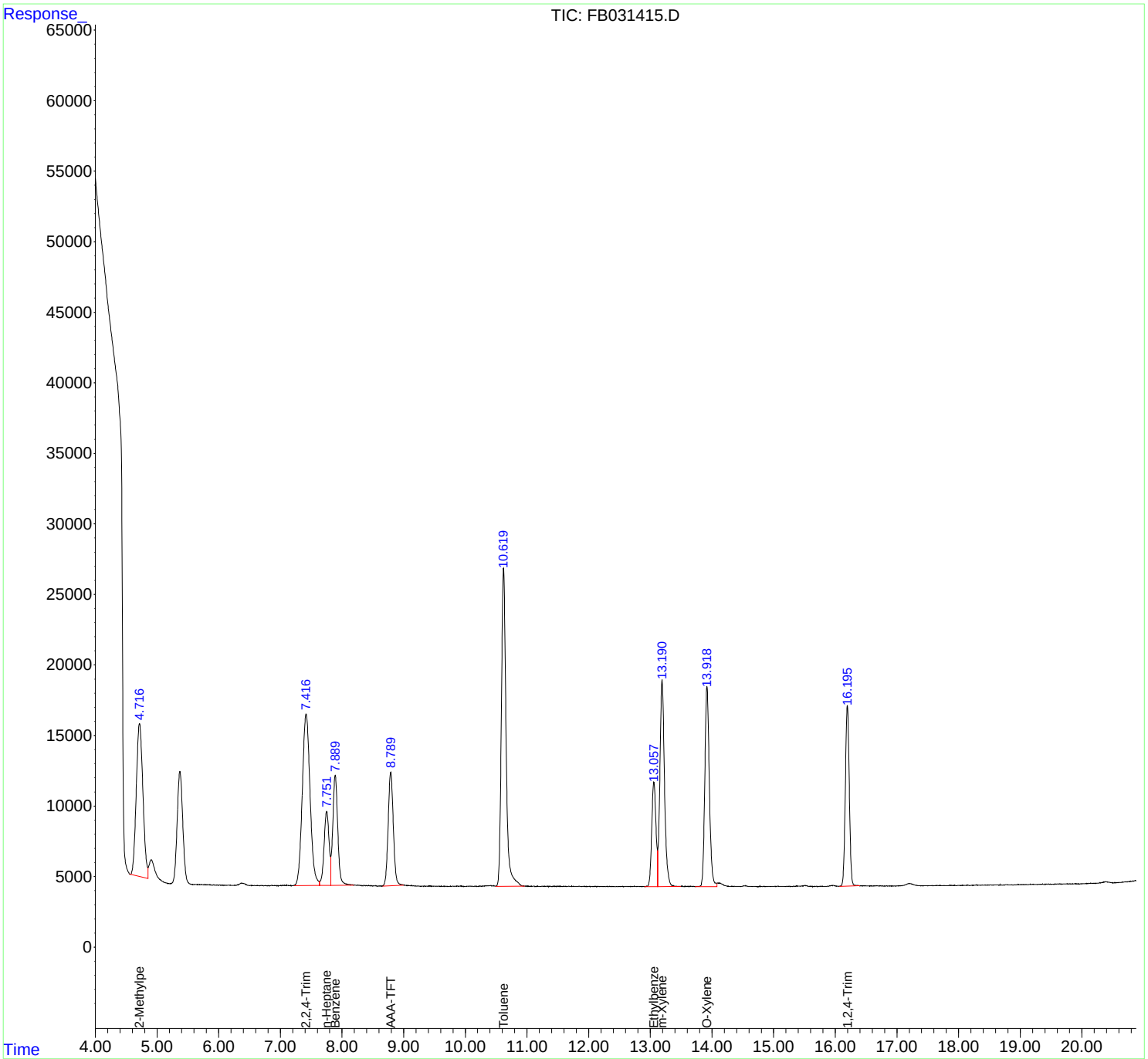
(f)=RT Delta > 1/2 Window (m)=manual int.

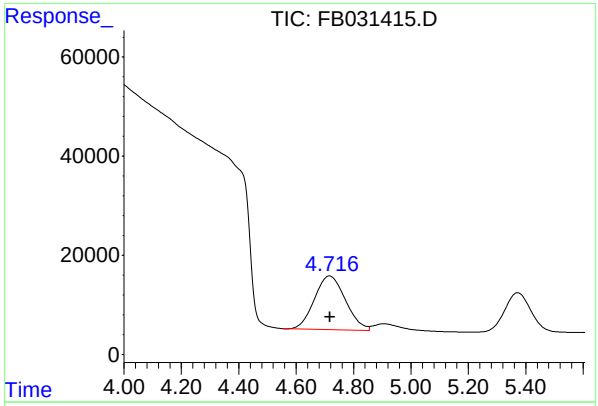
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031415.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 10:47
Operator : YP/AJ
Sample : BSF0131S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S1

Integration File: Calibration.e
Quant Time: Feb 01 00:15:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

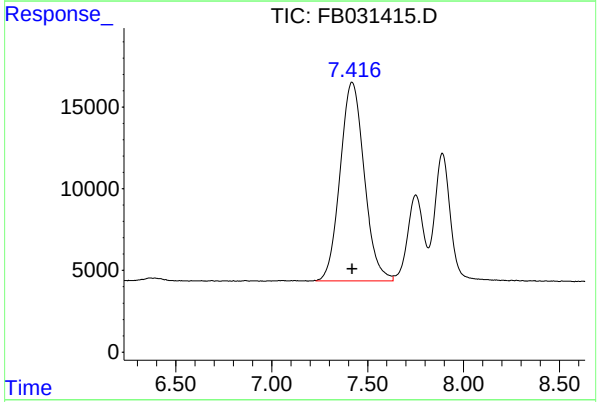





#1 2-Methylpentane

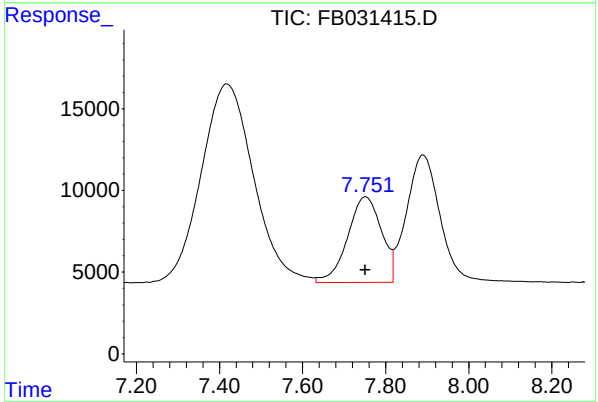
R.T.: 4.717 min
Delta R.T.: -0.001 min
Response: 811202
Conc: 24.47 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S1



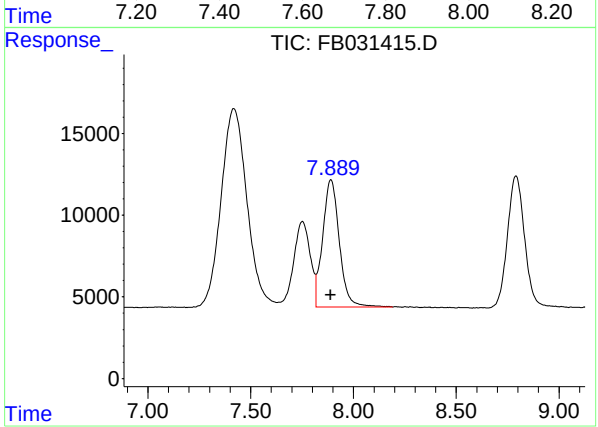

#2 2,2,4-Trimethylpentane

R.T.: 7.418 min
Delta R.T.: -0.002 min
Response: 1064822
Conc: 28.31 ng/ml



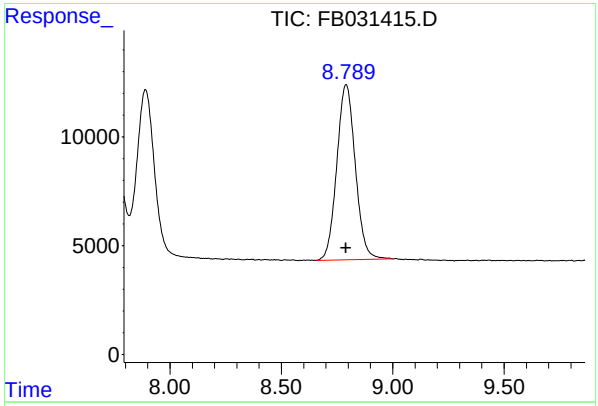

#3 n-Heptane

R.T.: 7.752 min
Delta R.T.: 0.000 min
Response: 296600
Conc: 8.22 ng/ml




#4 Benzene

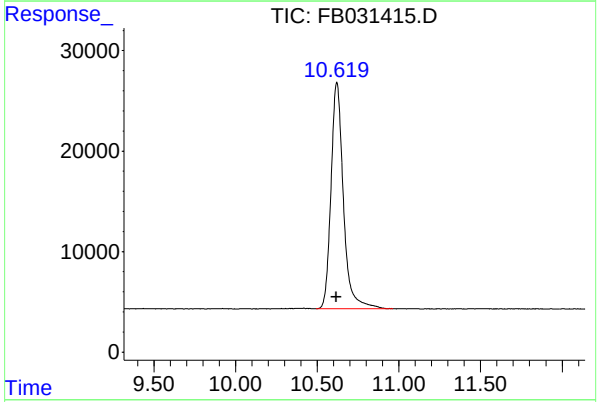
R.T.: 7.890 min
Delta R.T.: 0.000 min
Response: 440565
Conc: 10.34 ng/ml




#5 AAA-TFT

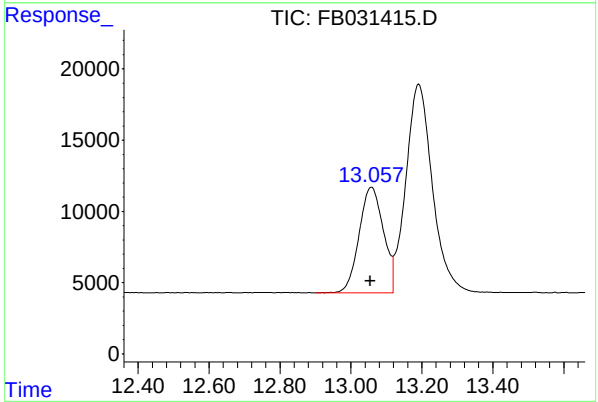
R.T.: 8.791 min
Delta R.T.: 0.001 min
Response: 465280
Conc: 19.51 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S1



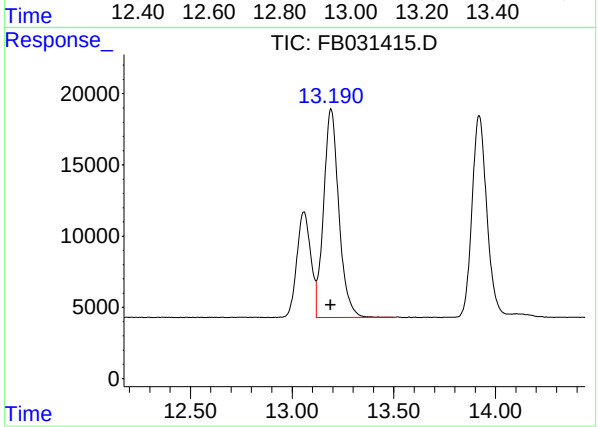

#6 Toluene

R.T.: 10.620 min
Delta R.T.: 0.003 min
Response: 1190505
Conc: 30.49 ng/ml



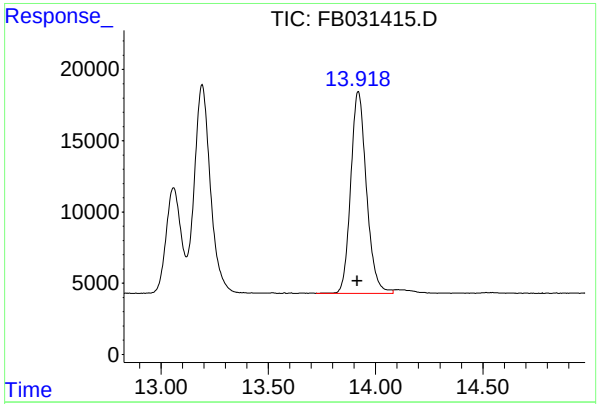

#7 Ethylbenzene

R.T.: 13.058 min
Delta R.T.: 0.004 min
Response: 351965
Conc: 10.16 ng/ml




#8 m-Xylene

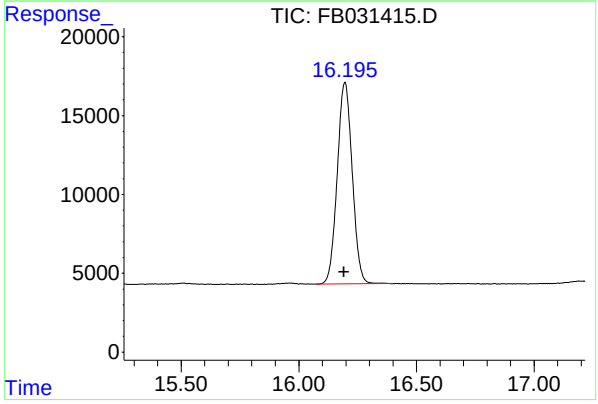
R.T.: 13.191 min
Delta R.T.: 0.003 min
Response: 763097
Conc: 20.42 ng/ml




#9 O-Xylene

R.T.: 13.919 min
Delta R.T.: 0.004 min
Response: 721578
Conc: 20.26 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S1




#10 1,2,4-Trimethylbenzene

R.T.: 16.196 min
Delta R.T.: 0.004 min
Response: 566218
Conc: 19.99 ng/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031415.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 10:47
Sample : BSF0131S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.717 | 4.554 | 4.855 | BV | 10838 | 811202 | 68.14% | 12.159% |
| 2 | 7.418 | 7.231 | 7.632 | VV | 12163 | 1064822 | 89.44% | 15.960% |
| 3 | 7.752 | 7.632 | 7.818 | VV | 5253 | 296600 | 24.91% | 4.446% |
| 4 | 7.890 | 7.818 | 8.192 | VV | 7801 | 440565 | 37.01% | 6.603% |
| 5 | 8.791 | 8.657 | 9.002 | BV | 8059 | 465280 | 39.08% | 6.974% |
| 6 | 10.620 | 10.493 | 10.964 | VV | 22553 | 1190505 | 100.00% | 17.844% |
| 7 | 13.058 | 12.901 | 13.119 | BV | 7411 | 351965 | 29.56% | 5.275% |
| 8 | 13.191 | 13.119 | 13.497 | VV | 14647 | 763097 | 64.10% | 11.438% |
| 9 | 13.919 | 13.722 | 14.081 | BV | 14171 | 721578 | 60.61% | 10.815% |
| 10 | 16.196 | 16.074 | 16.401 | BBA | 12795 | 566218 | 47.56% | 8.487% |

Sum of corrected areas: 6671831

FB011525.M Sat Feb 01 00:46:17 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | |
| Client Sample ID: | BSF0203S1 | SDG No.: | Q1232 |
| Lab Sample ID: | BSF0203S1 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031442.D | 1 | 02/03/25 12:40 | FB020325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 142 | | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 19.5 | | 50 - 150 | 98% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031442.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 12:40
Operator : YP/AJ
Sample : BSF0203S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
BSF0203S1

Integration File: Calibration.e
Quant Time: Feb 04 00:18:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.792 | 465921 | 19.533 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.721 | 564489 | 17.031 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.425 | 828705 | 22.036 | ng/ml |
| 3) t | n-Heptane | 7.754 | 245586 | 6.803 | ng/ml |
| 4) t | Benzene | 7.892 | 374058 | 8.783 | ng/ml |
| 6) t | Toluene | 10.620 | 1033895 | 26.479 | ng/ml |
| 7) t | Ethylbenzene | 13.057 | 304166 | 8.784 | ng/ml |
| 8) t | m-Xylene | 13.190 | 652214 | 17.449 | ng/ml |
| 9) t | O-Xylene | 13.918 | 619886 | 17.406 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.194 | 484876 | 17.121 | ng/ml |

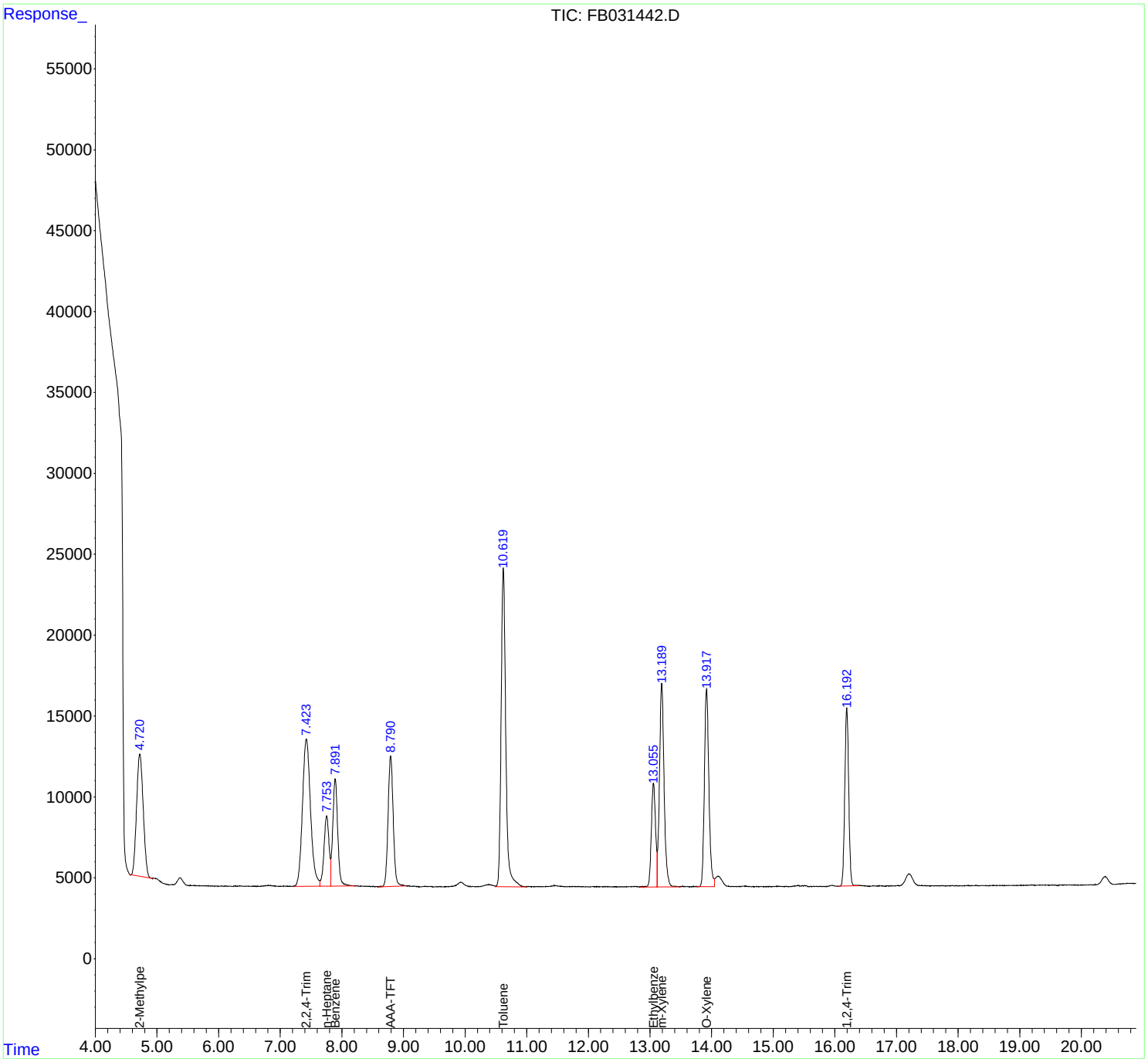
(f)=RT Delta > 1/2 Window (m)=manual int.

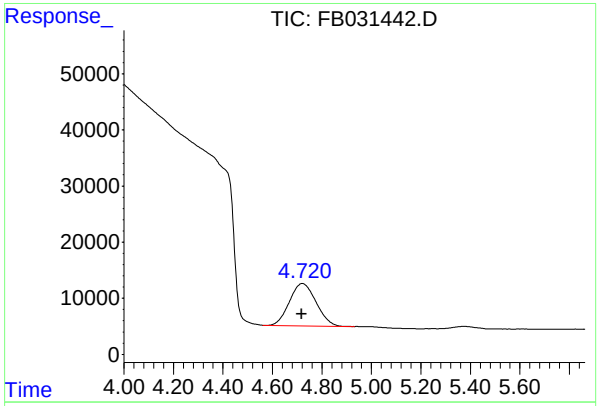
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031442.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 12:40
Operator : YP/AJ
Sample : BSF0203S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
BSF0203S1

Integration File: Calibration.e
Quant Time: Feb 04 00:18:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

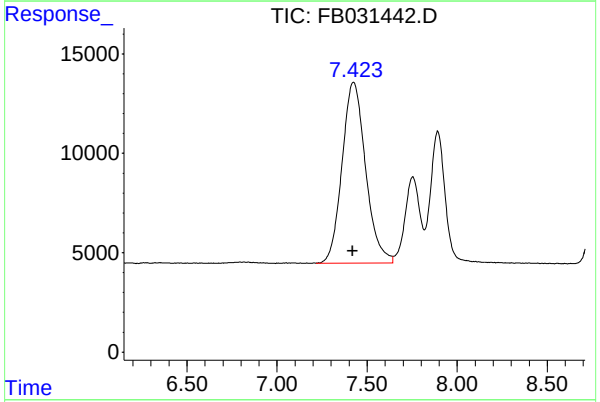





#1 2-Methylpentane

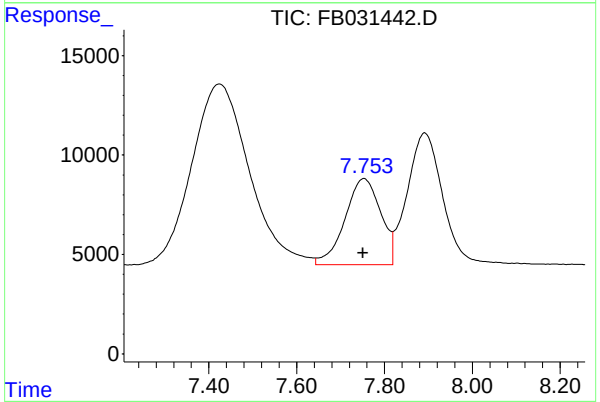
R.T.: 4.721 min
Delta R.T.: 0.003 min
Response: 564489
Conc: 17.03 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0203S1



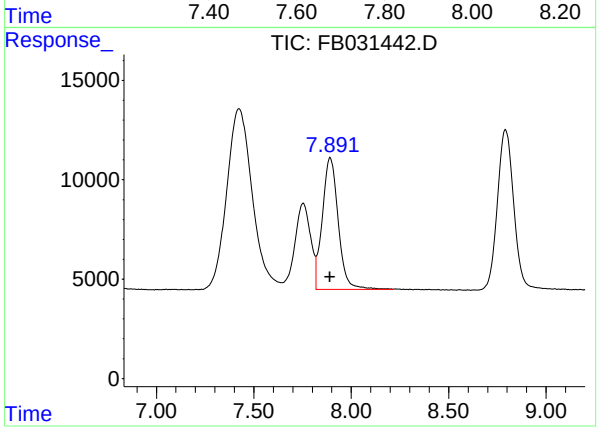

#2 2,2,4-Trimethylpentane

R.T.: 7.425 min
Delta R.T.: 0.005 min
Response: 828705
Conc: 22.04 ng/ml



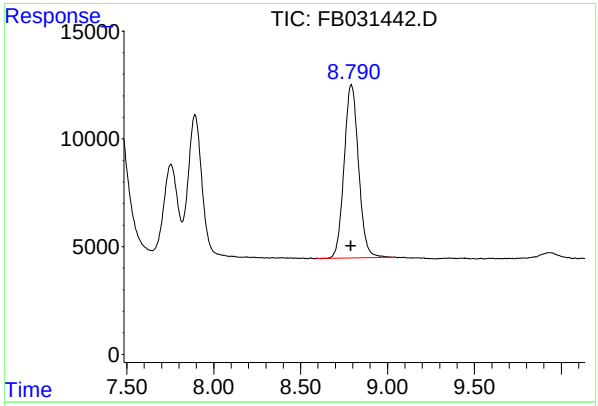

#3 n-Heptane

R.T.: 7.754 min
Delta R.T.: 0.003 min
Response: 245586
Conc: 6.80 ng/ml




#4 Benzene

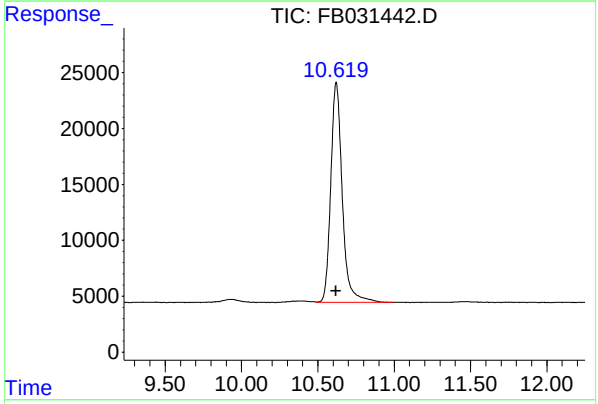
R.T.: 7.892 min
Delta R.T.: 0.003 min
Response: 374058
Conc: 8.78 ng/ml




#5 AAA-TFT

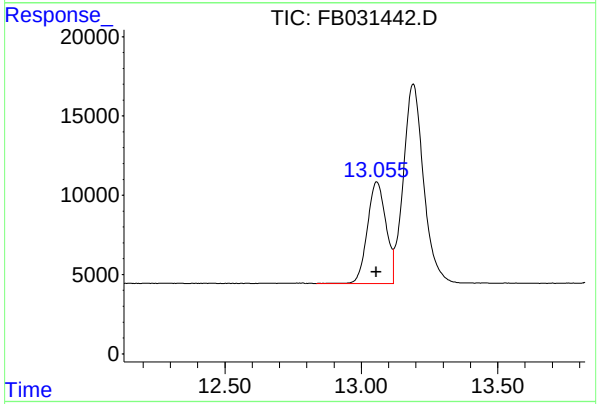
R.T.: 8.792 min
Delta R.T.: 0.002 min
Response: 465921
Conc: 19.53 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0203S1



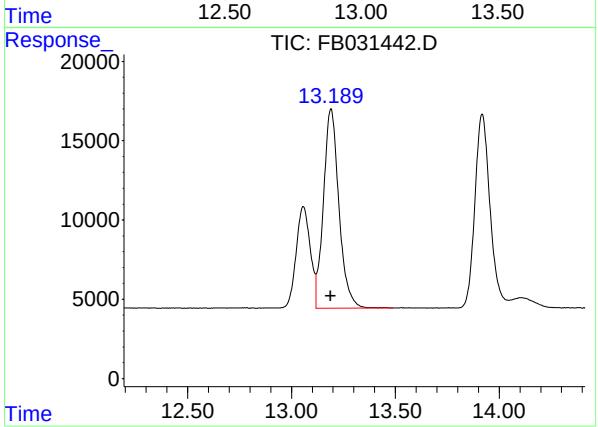

#6 Toluene

R.T.: 10.620 min
Delta R.T.: 0.003 min
Response: 1033895
Conc: 26.48 ng/ml



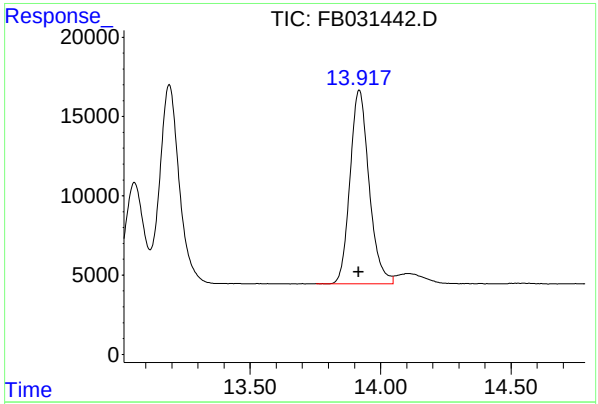

#7 Ethylbenzene

R.T.: 13.057 min
Delta R.T.: 0.003 min
Response: 304166
Conc: 8.78 ng/ml




#8 m-Xylene

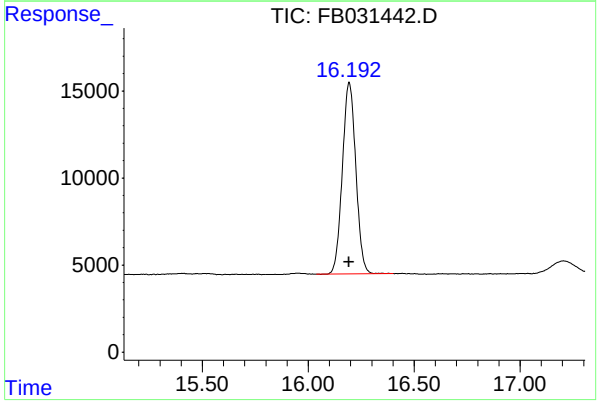
R.T.: 13.190 min
Delta R.T.: 0.002 min
Response: 652214
Conc: 17.45 ng/ml




#9 O-Xylene

R.T.: 13.918 min
Delta R.T.: 0.003 mi
Response: 619886
Conc: 17.41 ng/m

**Instrument :**
FID_B
**ClientSampleId :**
BSF0203S1




#10 1,2,4-Trimethylbenzene

R.T.: 16.194 min
Delta R.T.: 0.002 min
Response: 484876
Conc: 17.12 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB020325\
Data File : FB031442.D
Signal(s) : FID2B.CH
Acq On : 3 Feb 2025 12:40
Sample : BSF0203S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.721 | 4.559 | 4.932 | BV | 7549 | 564489 | 54.60% | 10.128% |
| 2 | 7.425 | 7.216 | 7.643 | PV | 9102 | 828705 | 80.15% | 14.868% |
| 3 | 7.754 | 7.643 | 7.819 | VV | 4341 | 245586 | 23.75% | 4.406% |
| 4 | 7.892 | 7.819 | 8.214 | VV | 6636 | 374058 | 36.18% | 6.711% |
| 5 | 8.792 | 8.590 | 9.032 | BV | 8053 | 465921 | 45.06% | 8.359% |
| 6 | 10.620 | 10.488 | 10.992 | VV | 19702 | 1033895 | 100.00% | 18.549% |
| 7 | 13.057 | 12.835 | 13.118 | PV | 6413 | 304166 | 29.42% | 5.457% |
| 8 | 13.190 | 13.118 | 13.488 | VB | 12584 | 652214 | 63.08% | 11.701% |
| 9 | 13.918 | 13.753 | 14.048 | BV | 12216 | 619886 | 59.96% | 11.121% |
| 10 | 16.194 | 16.038 | 16.401 | BBA | 11010 | 484876 | 46.90% | 8.699% |

Sum of corrected areas: 5573795

FB011525.M Tue Feb 04 00:37:42 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | RU2 Engineering, LLC | Date Collected: | |
| Project: | NYCDDC SANTWOBR Brooklyn Bridge BBMCR | Date Received: | |
| Client Sample ID: | BSF0131S2 | SDG No.: | Q1232 |
| Lab Sample ID: | BSF0131S2 | Matrix: | SOIL |
| Analytical Method: | 8015D GRO | % Solid: | 100 Decanted: |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5 mL |
| Soil Aliquot Vol: | uL | Test: | Gasoline Range Organics |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | PH : | | |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| FB031420.D | 1 | 01/31/25 13:12 | FB013125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| GRO | GRO | 168 | | 8.00 | 45.0 | ug/kg |
| **SURROGATES** | | | | | | |
| 98-08-8 | Alpha,Alpha,Alpha-Trifluoroto | 18.3 | | 50 - 150 | 91% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031420.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 13:12
Operator : YP/AJ
Sample : BSF0131S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S2

Integration File: Calibration.e
Quant Time: Feb 01 00:15:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

| | Compound | R.T. | Response | Conc | Units |
|---|---|---|---|---|---|
| | **System Monitoring Compounds** | | | | |
| 5) s | AAA-TFT | 8.792 | 435473 | 18.257 | ng/ml |
| | **Target Compounds** | | | | |
| 1) t | 2-Methylpentane | 4.719 | 779073 | 23.505 | ng/ml |
| 2) t | 2,2,4-Trimethylpentane | 7.422 | 1020194 | 27.127 | ng/ml |
| 3) t | n-Heptane | 7.754 | 304209 | 8.427 | ng/ml |
| 4) t | Benzene | 7.893 | 430945 | 10.118 | ng/ml |
| 6) t | Toluene | 10.621 | 1176710 | 30.136 | ng/ml |
| 7) t | Ethylbenzene | 13.058 | 342122 | 9.880 | ng/ml |
| 8) t | m-Xylene | 13.192 | 741323 | 19.832 | ng/ml |
| 9) t | O-Xylene | 13.920 | 693540 | 19.474 | ng/ml |
| 10) t | 1,2,4-Trimethylbenzene | 16.196 | 544696 | 19.233 | ng/ml |

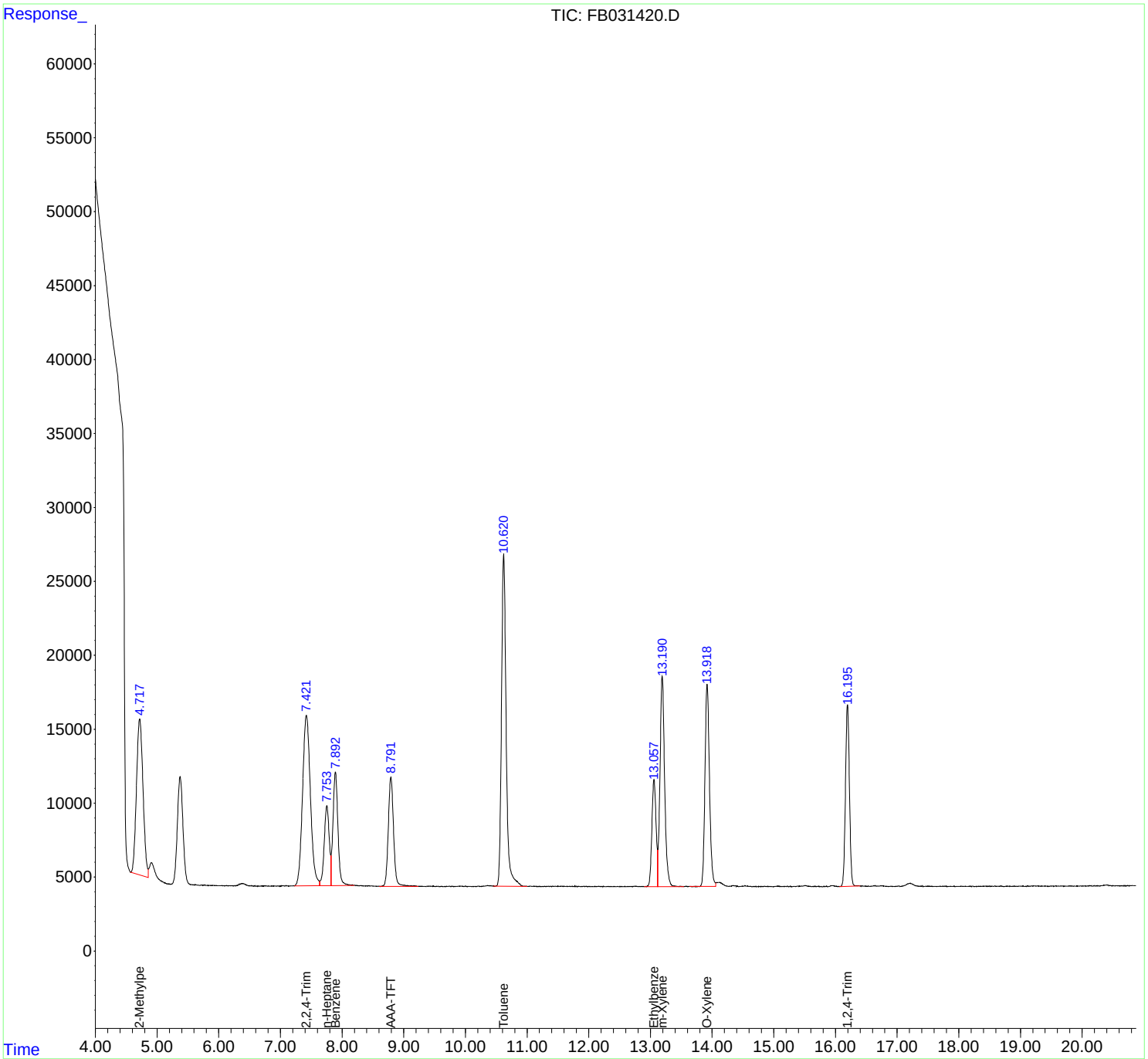
(f)=RT Delta > 1/2 Window (m)=manual int.

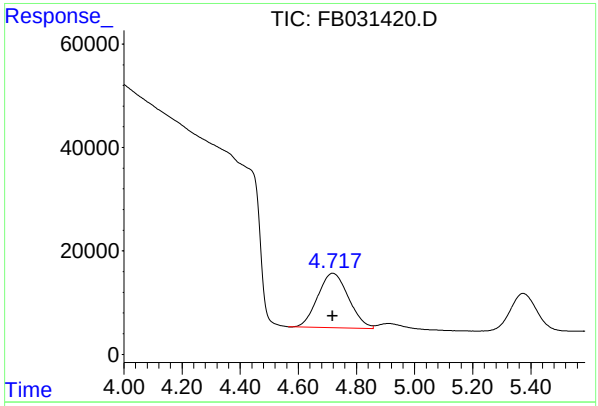
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031420.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 13:12
Operator : YP/AJ
Sample : BSF0131S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S2

Integration File: Calibration.e
Quant Time: Feb 01 00:15:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Quant Title :
QLast Update : Wed Jan 15 12:01:08 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

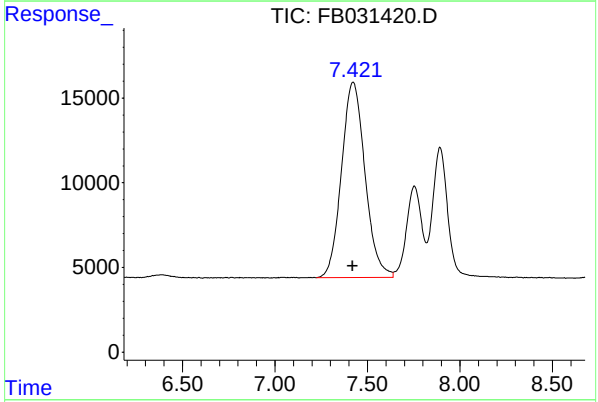





#1 2-Methylpentane

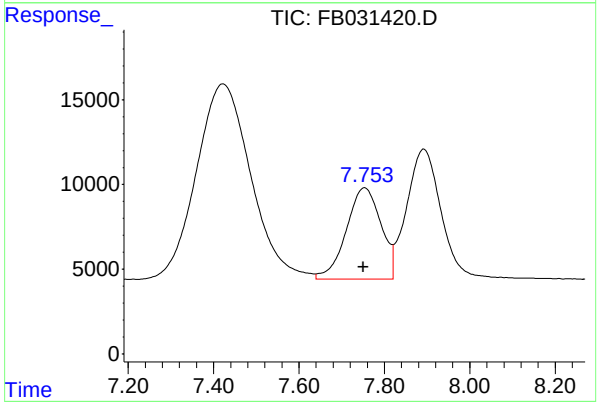
R.T.: 4.719 min
Delta R.T.: 0.000 min
Response: 779073
Conc: 23.50 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S2



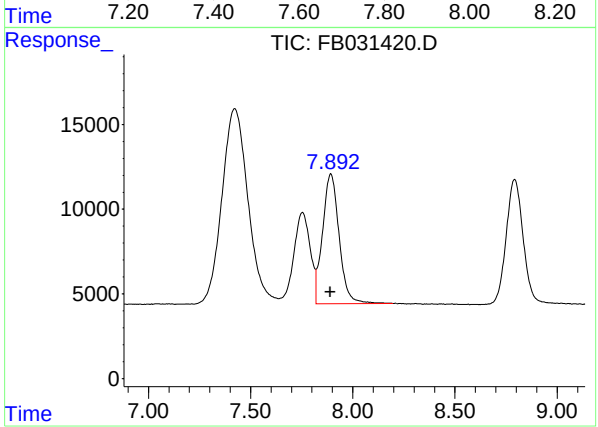

#2 2,2,4-Trimethylpentane

R.T.: 7.422 min
Delta R.T.: 0.002 min
Response: 1020194
Conc: 27.13 ng/ml



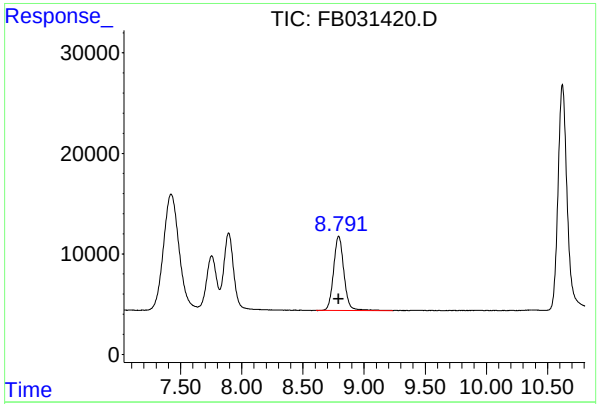

#3 n-Heptane

R.T.: 7.754 min
Delta R.T.: 0.003 min
Response: 304209
Conc: 8.43 ng/ml




#4 Benzene

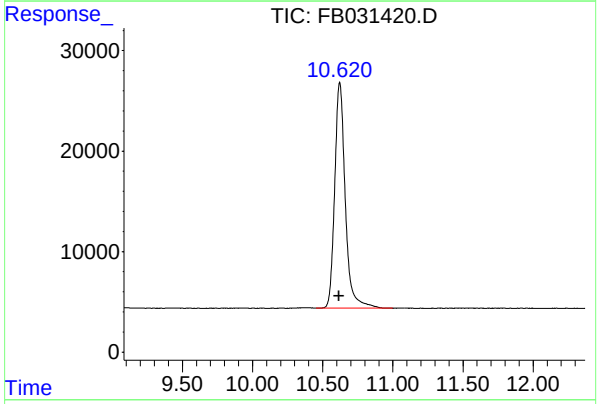
R.T.: 7.893 min
Delta R.T.: 0.003 min
Response: 430945
Conc: 10.12 ng/ml




#5 AAA-TFT

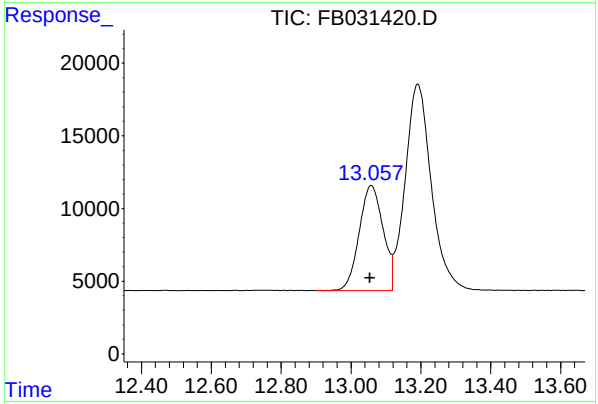
R.T.: 8.792 min
Delta R.T.: 0.003 min
Response: 435473
Conc: 18.26 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S2



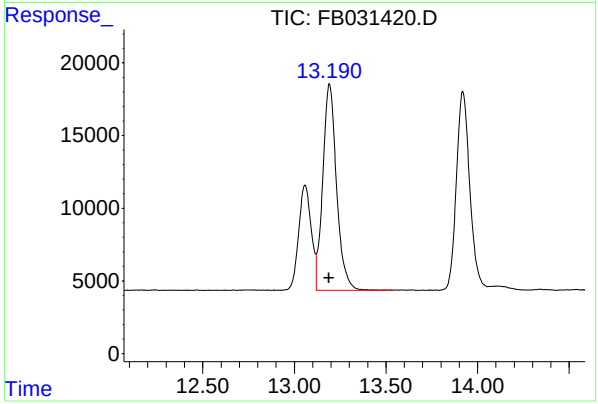

#6 Toluene

R.T.: 10.621 min
Delta R.T.: 0.004 min
Response: 1176710
Conc: 30.14 ng/ml



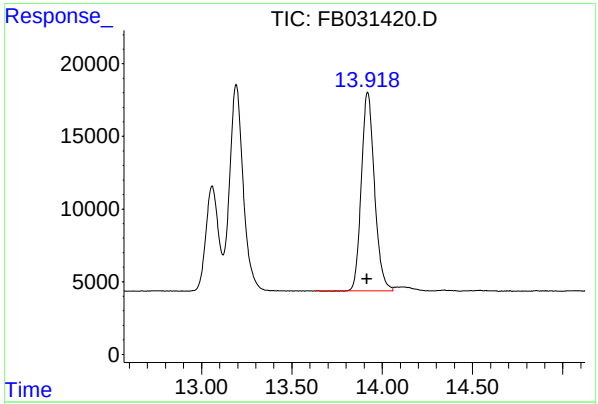

#7 Ethylbenzene

R.T.: 13.058 min
Delta R.T.: 0.004 min
Response: 342122
Conc: 9.88 ng/ml




#8 m-Xylene

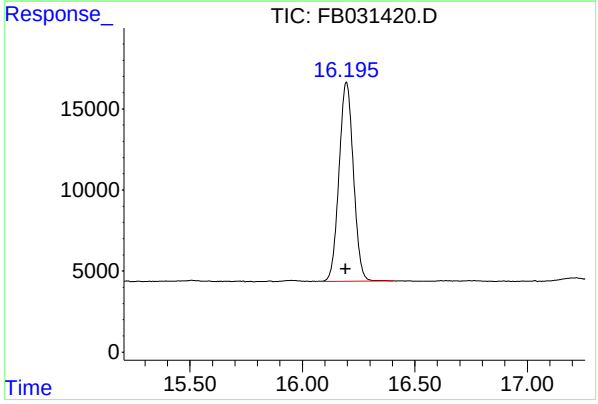
R.T.: 13.192 min
Delta R.T.: 0.004 min
Response: 741323
Conc: 19.83 ng/ml




#9 O-Xylene

R.T.: 13.920 min
Delta R.T.: 0.004 min
Response: 693540
Conc: 19.47 ng/ml

**Instrument :**
FID_B
**ClientSampleId :**
BSF0131S2




#10 1,2,4-Trimethylbenzene

R.T.: 16.196 min
Delta R.T.: 0.004 min
Response: 544696
Conc: 19.23 ng/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB013125\
Data File : FB031420.D
Signal(s) : FID2B.CH
Acq On : 31 Jan 2025 13:12
Sample : BSF0131S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 9 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB011525.M
Title :

Signal : FID2B.CH

| peak # | R.T. min | Start min | End min | PK TY | peak height | peak area | peak % max. | % of total |
|---|---|---|---|---|---|---|---|---|
| 1 | 4.719 | 4.565 | 4.858 | BV | 10552 | 779073 | 66.21% | 12.045% |
| 2 | 7.422 | 7.223 | 7.639 | BV | 11536 | 1020194 | 86.70% | 15.772% |
| 3 | 7.754 | 7.639 | 7.820 | VV | 5400 | 304209 | 25.85% | 4.703% |
| 4 | 7.893 | 7.820 | 8.197 | VV | 7674 | 430945 | 36.62% | 6.662% |
| 5 | 8.792 | 8.606 | 9.235 | BB | 7395 | 435473 | 37.01% | 6.732% |
| 6 | 10.621 | 10.452 | 11.000 | BV | 22471 | 1176710 | 100.00% | 18.192% |
| 7 | 13.058 | 12.898 | 13.119 | BV | 7231 | 342122 | 29.07% | 5.289% |
| 8 | 13.192 | 13.119 | 13.538 | VB | 14206 | 741323 | 63.00% | 11.461% |
| 9 | 13.920 | 13.633 | 14.059 | BV | 13680 | 693540 | 58.94% | 10.722% |
| 10 | 16.196 | 16.060 | 16.403 | PBA | 12288 | 544696 | 46.29% | 8.421% |

Sum of corrected areas: 6468285

FB011525.M Sat Feb 01 00:46:40 2025

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# Manual Integration Report

| Sample ID | ClientId ID | File ID | Sequence ID | Parameter | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| BSF0131S3 | | FB031431.D | FB013125 | O-Xylene | Ankita | 2/3/2025 1:08:56 PM | Peak Integrated by Software incorrectly |
| BSF0131S4 | | FB031437.D | FB013125 | O-Xylene | Ankita | 2/3/2025 1:08:58 PM | Peak Integrated by Software incorrectly |
| | | | | | | | |

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# Manual Integration Report

| Sample ID | ClientId ID | File ID | Sequence ID | Parameter | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| 20 PPB GRO STD | | FB031448.D | FB020325 | 2,2,4-Trimethylpentane | Ankita | 2/4/2025 9:01:16 AM | Peak Integrated by Software incorrectly |
| | | | | | | | |

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**Instrument ID: FID_B**

## Daily Analysis Runlog For Sequence/QCBatch ID # FB011525

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 1/15/2025 12:15:24 PM | | |
| Supervise By | Ankita | Supervise On | 1/16/2025 10:14:58 AM | | |
| SubDirectory | FB011525 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | 5 GRO STD | FB031307.D | 15 Jan 2025 10:20 | YP/AJ | Ok |
| 2 | 10 GRO STD | FB031308.D | 15 Jan 2025 10:47 | YP/AJ | Ok |
| 3 | 20 GRO STD | FB031309.D | 15 Jan 2025 11:13 | YP/AJ | Ok |
| 4 | 50 GRO STD | FB031310.D | 15 Jan 2025 11:40 | YP/AJ | Ok |
| 5 | 100 GRO STD | FB031311.D | 15 Jan 2025 12:07 | YP/AJ | Ok |
| 6 | FB011525GROICV | FB031312.D | 15 Jan 2025 12:44 | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID: FID_B**

## Daily Analysis Runlog For Sequence/QCBatch ID # FB013125

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 1/31/2025 1:02:12 PM | | |
| Supervise By | Ankita | Supervise On | 2/3/2025 1:09:11 PM | | |
| SubDirectory | FB013125 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | PP24167,PP24168,PP24169 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | 20 PPB GRO STD | FB031412.D | 31 Jan 2025 9:03 | YP/AJ | Ok |
| 2 | VBF0131S1 | FB031413.D | 31 Jan 2025 9:41 | YP/AJ | Ok |
| 3 | VBF0131S2 | FB031414.D | 31 Jan 2025 10:08 | YP/AJ | Ok |
| 4 | BSF0131S1 | FB031415.D | 31 Jan 2025 10:47 | YP/AJ | Ok |
| 5 | Q1242-01 | FB031416.D | 31 Jan 2025 11:25 | YP/AJ | Ok |
| 6 | Q1241-01 | FB031417.D | 31 Jan 2025 11:52 | YP/AJ | Ok |
| 7 | Q1241-05 | FB031418.D | 31 Jan 2025 12:18 | YP/AJ | Ok |
| 8 | Q1241-09 | FB031419.D | 31 Jan 2025 12:45 | YP/AJ | Not Ok |
| 9 | BSF0131S2 | FB031420.D | 31 Jan 2025 13:12 | YP/AJ | Ok |
| 10 | 20 PPB GRO STD | FB031421.D | 31 Jan 2025 13:38 | YP/AJ | Ok |
| 11 | Q1241-13 | FB031422.D | 31 Jan 2025 14:32 | YP/AJ | Ok |
| 12 | Q1241-17 | FB031423.D | 31 Jan 2025 14:58 | YP/AJ | Ok |
| 13 | Q1232-01 | FB031424.D | 31 Jan 2025 15:25 | YP/AJ | ReRun |
| 14 | Q1232-05 | FB031425.D | 31 Jan 2025 15:52 | YP/AJ | ReRun |
| 15 | Q1232-09 | FB031426.D | 31 Jan 2025 16:18 | YP/AJ | Not Ok |
| 16 | Q1232-13 | FB031427.D | 31 Jan 2025 16:45 | YP/AJ | Not Ok |
| 17 | Q1232-17 | FB031428.D | 31 Jan 2025 17:12 | YP/AJ | Not Ok |
| 18 | Q1235-01 | FB031429.D | 31 Jan 2025 17:38 | YP/AJ | Ok |
| 19 | Q1235-05 | FB031430.D | 31 Jan 2025 18:05 | YP/AJ | Ok |
| 20 | BSF0131S3 | FB031431.D | 31 Jan 2025 18:32 | YP/AJ | Ok,M |
| 21 | 20 PPB GRO STD | FB031432.D | 31 Jan 2025 18:58 | YP/AJ | Ok |

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**Instrument ID: FID_B**

## Daily Analysis Runlog For Sequence/QCBatch ID # FB013125

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 1/31/2025 1:02:12 PM | | |
| Supervise By | Ankita | Supervise On | 2/3/2025 1:09:11 PM | | |
| SubDirectory | FB013125 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | PP24167,PP24168,PP24169 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1241-09 | FB031433.D | 31 Jan 2025 19:52 | YP/AJ | Ok |
| 23 | Q1241-09 | FB031434.D | 31 Jan 2025 20:19 | YP/AJ | Not Ok |
| 24 | Q1232-01 | FB031435.D | 31 Jan 2025 20:45 | YP/AJ | Ok |
| 25 | Q1232-01 | FB031436.D | 31 Jan 2025 21:12 | YP/AJ | Not Ok |
| 26 | BSF0131S4 | FB031437.D | 31 Jan 2025 21:39 | YP/AJ | Ok,M |
| 27 | 20 PPB GRO STD | FB031438.D | 31 Jan 2025 22:32 | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID: FID_B**

## Daily Analysis Runlog For Sequence/QCBatch ID # FB020325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 2/3/2025 12:29:22 PM | | |
| Supervise By | Ankita | Supervise On | 2/4/2025 9:01:22 AM | | |
| SubDirectory | FB020325 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | PP24171,PP24172,PP24173 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | 20 PPB GRO STD | FB031439.D | 3 Feb 2025 11:08 | YP/AJ | Ok |
| 2 | VBF0203S1 | FB031440.D | 3 Feb 2025 11:47 | YP/AJ | Ok |
| 3 | VBF0203S2 | FB031441.D | 3 Feb 2025 12:14 | YP/AJ | Ok |
| 4 | BSF0203S1 | FB031442.D | 3 Feb 2025 12:40 | YP/AJ | Ok |
| 5 | Q1232-05 | FB031443.D | 3 Feb 2025 13:20 | YP/AJ | Ok |
| 6 | Q1232-09 | FB031444.D | 3 Feb 2025 13:47 | YP/AJ | Ok |
| 7 | Q1232-13 | FB031445.D | 3 Feb 2025 14:14 | YP/AJ | Ok |
| 8 | Q1232-17 | FB031446.D | 3 Feb 2025 14:40 | YP/AJ | Ok |
| 9 | BSF0203S2 | FB031447.D | 3 Feb 2025 15:07 | YP/AJ | Ok |
| 10 | 20 PPB GRO STD | FB031448.D | 3 Feb 2025 15:34 | YP/AJ | Ok,M |

M : Manual Integration

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**Instrument ID:** FID_B

## Daily Analysis Runlog For Sequence/QCBatch ID # FB011525

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 1/15/2025 12:15:24 PM | | |
| Supervise By | Ankita | Supervise On | 1/16/2025 10:14:58 AM | | |
| SubDirectory | FB011525 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 5 GRO STD | | FB031307.D | 15 Jan 2025 10:20 | | YP/AJ | Ok |
| 2 | 10 GRO STD | | FB031308.D | 15 Jan 2025 10:47 | | YP/AJ | Ok |
| 3 | 20 GRO STD | | FB031309.D | 15 Jan 2025 11:13 | | YP/AJ | Ok |
| 4 | 50 GRO STD | | FB031310.D | 15 Jan 2025 11:40 | | YP/AJ | Ok |
| 5 | 100 GRO STD | | FB031311.D | 15 Jan 2025 12:07 | | YP/AJ | Ok |
| 6 | FB011525GROICV | | FB031312.D | 15 Jan 2025 12:44 | | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID:** FID_B

## Daily Analysis Runlog For Sequence/QCBatch ID # FB013125

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 1/31/2025 1:02:12 PM | | |
| Supervise By | Ankita | Supervise On | 2/3/2025 1:09:11 PM | | |
| SubDirectory | FB013125 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | PP24167,PP24168,PP24169 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 20 PPB GRO STD | | FB031412.D | 31 Jan 2025 9:03 | | YP/AJ | Ok |
| 2 | VBF0131S1 | | FB031413.D | 31 Jan 2025 9:41 | | YP/AJ | Ok |
| 3 | VBF0131S2 | | FB031414.D | 31 Jan 2025 10:08 | | YP/AJ | Ok |
| 4 | BSF0131S1 | | FB031415.D | 31 Jan 2025 10:47 | | YP/AJ | Ok |
| 5 | Q1242-01 | | FB031416.D | 31 Jan 2025 11:25 | vial-A | YP/AJ | Ok |
| 6 | Q1241-01 | | FB031417.D | 31 Jan 2025 11:52 | vial-A | YP/AJ | Ok |
| 7 | Q1241-05 | | FB031418.D | 31 Jan 2025 12:18 | vial-A | YP/AJ | Ok |
| 8 | Q1241-09 | | FB031419.D | 31 Jan 2025 12:45 | vial-A ,not pureged | YP/AJ | Not Ok |
| 9 | BSF0131S2 | | FB031420.D | 31 Jan 2025 13:12 | | YP/AJ | Ok |
| 10 | 20 PPB GRO STD | | FB031421.D | 31 Jan 2025 13:38 | | YP/AJ | Ok |
| 11 | Q1241-13 | | FB031422.D | 31 Jan 2025 14:32 | vial-A | YP/AJ | Ok |
| 12 | Q1241-17 | | FB031423.D | 31 Jan 2025 14:58 | vial-A | YP/AJ | Ok |
| 13 | Q1232-01 | | FB031424.D | 31 Jan 2025 15:25 | vial-A ,surrogate fail | YP/AJ | ReRun |
| 14 | Q1232-05 | | FB031425.D | 31 Jan 2025 15:52 | vial-A ,surrogate fail | YP/AJ | ReRun |
| 15 | Q1232-09 | | FB031426.D | 31 Jan 2025 16:18 | vial-A ,not pureged | YP/AJ | Not Ok |
| 16 | Q1232-13 | | FB031427.D | 31 Jan 2025 16:45 | vial-A ,not pureged | YP/AJ | Not Ok |
| 17 | Q1232-17 | | FB031428.D | 31 Jan 2025 17:12 | vial-A ,not pureged | YP/AJ | Not Ok |
| 18 | Q1235-01 | | FB031429.D | 31 Jan 2025 17:38 | vial-A | YP/AJ | Ok |

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**Instrument ID:** FID_B

## Daily Analysis Runlog For Sequence/QCBatch ID # FB013125

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 1/31/2025 1:02:12 PM | | |
| Supervise By | Ankita | Supervise On | 2/3/2025 1:09:11 PM | | |
| SubDirectory | FB013125 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | PP24167,PP24168,PP24169 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1235-05 | | FB031430.D | 31 Jan 2025 18:05 | vial-A | YP/AJ | Ok |
| 20 | BSF0131S3 | | FB031431.D | 31 Jan 2025 18:32 | | YP/AJ | Ok,M |
| 21 | 20 PPB GRO STD | | FB031432.D | 31 Jan 2025 18:58 | | YP/AJ | Ok |
| 22 | Q1241-09 | | FB031433.D | 31 Jan 2025 19:52 | vial-B | YP/AJ | Ok |
| 23 | Q1241-09 | | FB031434.D | 31 Jan 2025 20:19 | vial-C , not required | YP/AJ | Not Ok |
| 24 | Q1232-01 | | FB031435.D | 31 Jan 2025 20:45 | vial-B | YP/AJ | Ok |
| 25 | Q1232-01 | | FB031436.D | 31 Jan 2025 21:12 | vial-C , not required | YP/AJ | Not Ok |
| 26 | BSF0131S4 | | FB031437.D | 31 Jan 2025 21:39 | | YP/AJ | Ok,M |
| 27 | 20 PPB GRO STD | | FB031438.D | 31 Jan 2025 22:32 | | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID:** FID_B

## Daily Analysis Runlog For Sequence/QCBatch ID # FB020325

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 2/3/2025 12:29:22 PM | | |
| Supervise By | Ankita | Supervise On | 2/4/2025 9:01:22 AM | | |
| SubDirectory | FB020325 | HP Acquire Method | | HP Processing Method | FB011525 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP24110,PP24113,PP24114,PP24115,PP24116,PP24117 |
| CCC | PP24171,PP24172,PP24173 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP24111,PP24118 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | 20 PPB GRO STD | | FB031439.D | 3 Feb 2025 11:08 | | YP/AJ | Ok |
| 2 | VBF0203S1 | | FB031440.D | 3 Feb 2025 11:47 | | YP/AJ | Ok |
| 3 | VBF0203S2 | | FB031441.D | 3 Feb 2025 12:14 | | YP/AJ | Ok |
| 4 | BSF0203S1 | | FB031442.D | 3 Feb 2025 12:40 | | YP/AJ | Ok |
| 5 | Q1232-05 | | FB031443.D | 3 Feb 2025 13:20 | Vial -B | YP/AJ | Ok |
| 6 | Q1232-09 | | FB031444.D | 3 Feb 2025 13:47 | Vial -B | YP/AJ | Ok |
| 7 | Q1232-13 | | FB031445.D | 3 Feb 2025 14:14 | Vial -B | YP/AJ | Ok |
| 8 | Q1232-17 | | FB031446.D | 3 Feb 2025 14:40 | Vial -B | YP/AJ | Ok |
| 9 | BSF0203S2 | | FB031447.D | 3 Feb 2025 15:07 | | YP/AJ | Ok |
| 10 | 20 PPB GRO STD | | FB031448.D | 3 Feb 2025 15:34 | | YP/AJ | Ok,M |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 1/31/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 16:45
**In Date:** 01/30/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:14
**Out Date:** 01/31/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134481

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q1215-01 | JPP-29.1-012825 | 1 | 1.15 | 8.54 | 9.69 | 8.75 | 89.0 | |
| Q1215-03 | JPP-29.1-012825 | 2 | 1.16 | 8.48 | 9.64 | 8.69 | 88.8 | |
| Q1215-05 | JPP-29.2-012825 | 3 | 1.19 | 8.70 | 9.89 | 8.77 | 87.1 | |
| Q1215-07 | JPP-29.2-012825 | 4 | 1.15 | 8.63 | 9.78 | 8.81 | 88.8 | |
| Q1216-01 | JPP-18.1-012825 | 5 | 1.19 | 8.45 | 9.64 | 8.05 | 81.2 | |
| Q1216-03 | JPP-18.1-012825 | 6 | 1.16 | 8.82 | 9.98 | 8.51 | 83.3 | |
| Q1216-05 | JPP-21.1-012825 | 7 | 1.15 | 8.40 | 9.55 | 8.83 | 91.4 | |
| Q1216-07 | JPP-21.1-012825 | 8 | 1.15 | 8.75 | 9.9 | 9.06 | 90.4 | |
| Q1216-09 | JPP-21.2-012825 | 9 | 1.19 | 8.42 | 9.61 | 8.29 | 84.3 | |
| Q1216-11 | JPP-21.2-012825 | 10 | 1.15 | 8.36 | 9.51 | 8.2 | 84.3 | |
| Q1216-13 | JPP-26.1-012825 | 11 | 1.19 | 8.46 | 9.65 | 7.87 | 79.0 | |
| Q1216-15 | JPP-26.1-012825 | 12 | 1.17 | 8.76 | 9.93 | 8.42 | 82.8 | |
| Q1216-17 | JPP-26.2-012825 | 13 | 1.16 | 8.63 | 9.79 | 8.52 | 85.3 | |
| Q1216-19 | JPP-26.2-012825 | 14 | 1.17 | 8.51 | 9.68 | 8.47 | 85.8 | |
| Q1232-01 | JPP-46.2-012925 | 15 | 1.12 | 8.77 | 9.89 | 8.99 | 89.7 | |
| Q1232-03 | JPP-46.2-012925 | 16 | 1.15 | 8.37 | 9.52 | 8.62 | 89.2 | |
| Q1232-05 | JPP-46.1-012925 | 17 | 1.17 | 8.50 | 9.67 | 9.14 | 93.8 | |
| Q1232-07 | JPP-46.1-012925 | 18 | 1.15 | 8.72 | 9.87 | 9.35 | 94.0 | |
| Q1232-09 | JPP-42.1-012925 | 19 | 1.14 | 8.37 | 9.51 | 8.56 | 88.6 | |
| Q1232-11 | JPP-42.1-012925 | 20 | 1.19 | 8.43 | 9.62 | 8.62 | 88.1 | |
| Q1232-13 | JPP-42.2-012925 | 21 | 1.15 | 8.50 | 9.65 | 8.98 | 92.1 | |
| Q1232-15 | JPP-42.2-012925 | 22 | 1.15 | 8.37 | 9.52 | 8.95 | 93.2 | |
| Q1232-17 | JPP-51.1-012925 | 23 | 1.19 | 8.42 | 9.61 | 9.14 | 94.4 | |
| Q1232-19 | JPP-51.1-012925 | 24 | 1.12 | 8.75 | 9.87 | 9.44 | 95.1 | |
| Q1233-01 | WIPE-1 | 25 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | WIPE SAMPLE |
| Q1233-02 | WIPE-2 | 26 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | WIPE SAMPLE |
| Q1235-01 | JPP-51.2-012925 | 27 | 1.15 | 8.60 | 9.75 | 8.99 | 91.2 | |
| Q1235-03 | JPP-51.2-012925 | 28 | 1.15 | 8.51 | 9.66 | 8.96 | 91.8 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 1/31/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 16:45
**In Date:** 01/30/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:14
**Out Date:** 01/31/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134481

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q1235-05 | JPP-16.1-012925 | 29 | 1.15 | 8.75 | 9.9 | 8.94 | 89.0 | |
| Q1235-07 | JPP-16.1-012925 | 30 | 1.12 | 8.77 | 9.89 | 8.94 | 89.2 | |
| Q1237-01 | HL6PX1 | 31 | 1.16 | 8.53 | 9.69 | 9.27 | 95.1 | |
| Q1237-02 | HL6PX2 | 32 | 1.16 | 8.70 | 9.86 | 9.28 | 93.3 | |
| Q1237-03 | HL6PX3 | 33 | 1.15 | 8.82 | 9.97 | 9.27 | 92.1 | |
| Q1237-04 | HL6PX4 | 34 | 1.15 | 8.78 | 9.93 | 9.43 | 94.3 | |
| Q1237-05 | HL6PX5 | 35 | 1.17 | 8.54 | 9.71 | 9.33 | 95.6 | |
| Q1237-06 | HL6PX6 | 36 | 1.17 | 8.57 | 9.74 | 9.07 | 92.2 | |
| Q1239-01 | 286 | 37 | 1.14 | 8.49 | 9.63 | 8.68 | 88.8 | |
| Q1239-04 | 348 | 38 | 1.14 | 8.83 | 9.97 | 9.00 | 89.0 | |
| Q1239-07 | RBR22266 | 39 | 1.17 | 8.74 | 9.91 | 9.00 | 89.6 | |
| Q1239-10 | 357 | 40 | 1.16 | 8.80 | 9.96 | 8.62 | 84.8 | |
| Q1240-01 | MEG-OIL | 41 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

(B 13448)

**WorkList Name :** %1-013025 **WorkList ID :** 187270 **Department :** Wet-Chemistry **Date :** 01-30-2025 07:55:51

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1215-01 | JPP-29.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1215-03 | JPP-29.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1215-05 | JPP-29.2-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1215-07 | JPP-29.2-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-01 | JPP-18.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-03 | JPP-18.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-05 | JPP-21.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-07 | JPP-21.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-09 | JPP-21.2-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-11 | JPP-21.2-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-13 | JPP-26.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-15 | JPP-26.1-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-17 | JPP-26.2-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1216-19 | JPP-26.2-012825 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1232-01 | JPP-46.2-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/28/2025 | Chemtech -SO |
| Q1232-03 | JPP-46.2-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1232-05 | JPP-46.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1232-07 | JPP-46.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1232-09 | JPP-42.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1232-11 | JPP-42.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1232-13 | JPP-42.2-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |

**Date/Time** 01/30/25 1520

**Raw Sample Received by:** SB WC)

**Raw Sample Relinquished by:** CJSM

**Date/Time** 01/30/25 1711

**Raw Sample Received by:** CF SB

**Raw Sample Relinquished by:** SB WC)

# WORKLIST(Hardcopy Internal Chain)

JB 134481

**WorkList Name :** %1-013025 **WorkList ID :** 187270 **Department :** Wet-Chemistry **Date :** 01-30-2025 07:55:51

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1232-15 | JPP-42.2-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1232-17 | JPP-51.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1232-19 | JPP-51.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1233-01 | WIPE-1 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1233-02 | WIPE-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N41 | 01/30/2025 | Chemtech -SO |
| Q1235-01 | JPP-51.2-012925 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N41 | 01/30/2025 | Chemtech -SO |
| Q1235-03 | JPP-51.2-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1235-05 | JPP-16.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1235-07 | JPP-16.1-012925 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1237-01 | HL6PX1 | Solid | Percent Solids | Cool 4 deg C | RUTW01 | E11 | 01/29/2025 | Chemtech -SO |
| Q1237-02 | HL6PX2 | Solid | Percent Solids | Cool 4 deg C | GENV01 | N31 | 01/30/2025 | Chemtech -SO |
| Q1237-03 | HL6PX3 | Solid | Percent Solids | Cool 4 deg C | GENV01 | N31 | 01/30/2025 | Chemtech -SO |
| Q1237-04 | HL6PX4 | Solid | Percent Solids | Cool 4 deg C | GENV01 | N31 | 01/30/2025 | Chemtech -SO |
| Q1237-05 | HL6PX5 | Solid | Percent Solids | Cool 4 deg C | GENV01 | N31 | 01/30/2025 | Chemtech -SO |
| Q1237-06 | HL6PX6 | Solid | Percent Solids | Cool 4 deg C | GENV01 | N31 | 01/30/2025 | Chemtech -SO |
| Q1239-01 | 286 | Solid | Percent Solids | Cool 4 deg C | GENV01 | N31 | 01/30/2025 | Chemtech -SO |
| Q1239-04 | 348 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N31 | 01/30/2025 | Chemtech -SO |
| Q1239-07 | RBR22266 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N31 | 01/30/2025 | Chemtech -SO |
| Q1239-10 | 357 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N31 | 01/30/2025 | Chemtech -SO |
| Q1240-01 | MEG-OIL | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N41 | 01/30/2025 | Chemtech -SO |

**Date/Time** 01/30/25 1512.0

**Raw Sample Received by:** JB WdC

**Raw Sample Relinquished by:** CF SM

**Date/Time** 01/30/25 1710

**Raw Sample Received by:** CF SM

**Raw Sample Relinquished by:** JB WdC

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Prep Standard - Chemical Standard Summary

**Order ID :** Q1232

**Test :** Gasoline Range Organics

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** FB013125,FB020325,

**Standard ID :**
PP24110,PP24111,PP24112,PP24113,PP24114,PP24115,PP24116,PP24117,PP24118,PP24167,PP24168,PP24169,PP24171,PP24172,PP24173,

**Chemical ID :**
P11119,P9831,V14543,V14624,W3112,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 231 | 10 PPM GRO STD 1ST SOURCE | PP24110 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 0.11100ml of P9831 + 9.89000ml of V14624 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 233 | 10 PPM GRO STD 2nd SOURCE | PP24111 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 0.11100ml of P11119 + 9.89000ml of V14624 = Final Quantity: 10.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3619 | 25 PPM AAA-TFT Surg | PP24112 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 0.10000ml of V14543 + 9.90000ml of V14624 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 238 | 5 PPB ICC GRO STD | PP24113 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 5.00000ml of W3112 + 0.00100ml of PP24112 + 0.00250ml of PP24110 = Final Quantity: 5.004 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 237 | 10 PPB ICC GRO STD | PP24114 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 5.00000ml of W3112 + 0.00200ml of PP24112 + 0.00500ml of PP24110 = Final Quantity: 5.007 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 239 | 20 PPB ICC GRO STD | PP24115 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 235 | 50 PPB ICC GRO STD | PP24116 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 5.00000ml of W3112 + 0.01000ml of PP24112 + 0.02500ml of PP24110 = Final Quantity: 5.035 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 234 | 100 PPB ICC GRO STD | PP24117 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 5.00000ml of W3112 + 0.02000ml of PP24112 + 0.05000ml of PP24110 = Final Quantity: 5.070 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 239 | 20 PPB ICC GRO STD | PP24118 | 01/15/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 01/15/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 241 | 20 PPB CCC GRO STD | PP24167 | 01/31/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 02/03/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 241 | 20 PPB CCC GRO STD | PP24168 | 01/31/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 02/03/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 241 | 20 PPB CCC GRO STD | PP24169 | 01/31/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 02/03/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 241 | 20 PPB CCC GRO STD | PP24171 | 02/03/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 02/03/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 241 | 20 PPB CCC GRO STD | PP24172 | 02/03/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 02/03/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 241 | 20 PPB CCC GRO STD | PP24173 | 02/03/2025 | 07/13/2025 | Yogesh Patel | None | None | Ankita Jodhani 02/03/2025 |

**FROM** 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30065 / GRO Mix (EPA) | A0155991 | 01/31/2027 | 11/27/2023 / yogesh | 02/10/2021 / Sohil | P11119 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30065 / GRO Mix (EPA) | A0161776 | 07/15/2025 | 01/15/2025 / yogesh | 09/11/2020 / DHAVAL | P9831 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30068 / VOA Mix, a, a, a-triflurotoluene 2500uq/ml, P&T methanol, 1ml | A0206957 | 07/15/2025 | 01/15/2025 / yogesh | 09/30/2024 / yogesh | V14543 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 07/13/2025 | 01/13/2025 / SAM | 11/26/2024 / SAM | V14624 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.01 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

1st source
DD
P9817 To P9826 (10)

**Catalog No. :** 30065 **Lot No.:** A0155991

**Description :** Gasoline Range Organics Mix (EPA)

Gasoline Range Organics Mix (EPA) 500 - 1500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2027 **Storage:** 0°C or colder

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | 2-Methylpentane<br>**CAS #** 107-83-5<br>**Purity** 98% | (Lot MKCB1674V) | 1,505.3 µg/mL | +/- 8.9409 µg/mL<br>+/- 84.4194 µg/mL<br>+/- 86.3938 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2,2,4-Trimethylpentane ( isooctane )<br>**CAS #** 540-84-1<br>**Purity** 99% | (Lot SHBD2922V) | 1,504.0 µg/mL | +/- 8.9333 µg/mL<br>+/- 84.3476 µg/mL<br>+/- 86.3203 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 3 | n-Heptane (C7)<br>**CAS #** 142-82-5<br>**Purity** 98% | (Lot SHBK8626) | 500.8 µg/mL | +/- 2.9745 µg/mL<br>+/- 28.0848 µg/mL<br>+/- 28.7417 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 4 | Benzene<br>**CAS #** 71-43-2<br>**Purity** 99% | (Lot SHBK5679) | 501.0 µg/mL | +/- 2.9758 µg/mL<br>+/- 28.0972 µg/mL<br>+/- 28.7543 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 5 | Toluene<br>**CAS #** 108-88-3<br>**Purity** 99% | (Lot MKCH9232) | 1,505.0 µg/mL | +/- 8.9392 µg/mL<br>+/- 84.4037 µg/mL<br>+/- 86.3777 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 6 | Ethylbenzene<br>**CAS #** 100-41-4<br>**Purity** 99% | (Lot SHBJ4278) | 502.0 µg/mL | +/- 2.9817 µg/mL<br>+/- 28.1533 µg/mL<br>+/- 28.8117 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 7 | m-Xylene<br>**CAS #** 108-38-3<br>**Purity** 99% | (Lot SHBJ8743) | 1,004.0 µg/mL | +/- 5.9635 µg/mL<br>+/- 56.3065 µg/mL<br>+/- 57.6234 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8 | o-Xylene | | 1,008.0 | µg/mL | +/- | 5.9872 | µg/mL | Gravimetric |
| | **CAS #** 95-47-6 | (Lot SHBK7739) | | | +/- | 56.5308 | µg/mL | Unstressed |
| | **Purity** 99% | | | | +/- | 57.8530 | µg/mL | Stressed |
| 9 | 1,2,4-Trimethylbenzene | | 1,004.5 | µg/mL | +/- | 5.9664 | µg/mL | Gravimetric |
| | **CAS #** 95-63-6 | (Lot MKBJ6229V) | | | +/- | 56.3345 | µg/mL | Unstressed |
| | **Purity** 98% | | | | +/- | 57.6521 | µg/mL | Stressed |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

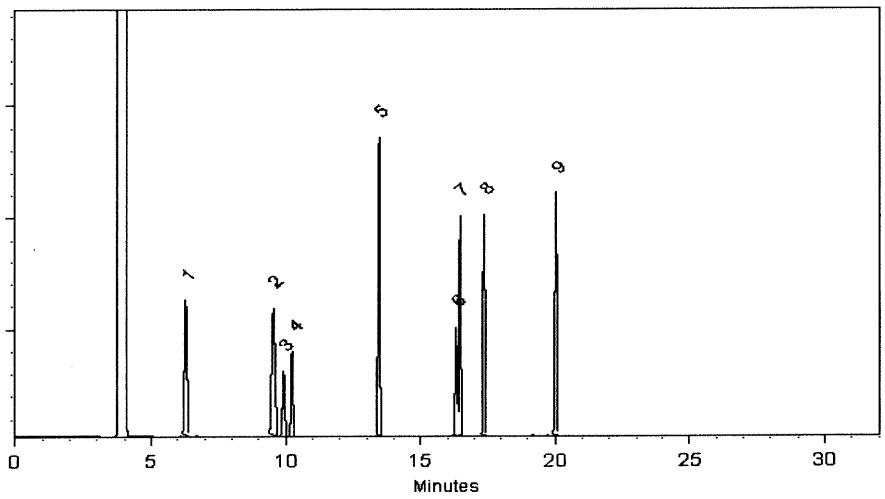
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

**Date Mixed:** 19-Dec-2019 **Balance:** 1127510105

Fang-Yun Lo - QC Analyst

**Date Passed:** 23-Dec-2019

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Q1232
QUOTE NO.
COC Number 2041691

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RU2 Engineering LLC
ADDRESS: 2 Melinda Drive, Monroe Twp, NJ 08831
CITY: STATE: ZIP:
ATTENTION: Ruta Manani
PHONE: 609-409-4564 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: SANDTWOBR BMCR Project
PROJECT NO.: LOCATION: Brooklyn, NYC
PROJECT MANAGER: Ruta Manani
e-mail: Rmanani@Ru2eng.com
PHONE: FAX:

### CLIENT BILLING INFORMATION

BILL TO: Same as company address PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) Standard 10 days DAYS*
HARDCOPY (DATA PACKAGE): Standard 10 days DAYS*
EDD: Standard 10 days DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

### ANALYSIS

1 TCL VOC+TICs MTBE+BA
2 TCL VOCs
3 TPH GRO-DRO
4 TCL SVOCs+TICs
5 TAL Metals
6 Pesticides, PCBs
7 RCRA characteristics
8 Paint filter
9 full TCLP

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | JPP-46.2-012925 | Soil | | G | 01/29/25 | 9:00 | 3 | X | X | X | | | | | | | |
| 2. | JPP-46.2-012925 | Soil | C | | 1/29/25 | 9:05 | 8 | | | X | X | X | X | X | X | X | |
| 3. | JPP-46.1-012925 | Soil | | G | 1/29/25 | 10:10 | 3 | X | X | X | | | | | | | |
| 4. | JPP-46.1-012925 | Soil | C | | 1/29/25 | 10:18 | 8 | | | X | X | X | X | X | X | X | |
| 5. | JPP-42.1-012925 | Soil | | G | 1/29/25 | 11:24 | 3 | X | X | X | | | | | | | |
| 6. | JPP-42.1-012925 | Soil | C | | 1/29/25 | 11:30 | 8 | | | X | X | X | X | X | X | X | |
| 7. | JPP-42.2-012925 | Soil | | G | 1/29/25 | 12:24 | 3 | X | X | X | | | | | | | |
| 8. | JPP-42.2-012925 | Soil | C | | 1/29/25 | 12:30 | 8 | | | X | X | X | X | X | X | X | |
| 9. | JPP-51.1-012925 | Soil | | G | 1/29/25 | 14:14 | 3 | X | X | X | | | | | | | |
| 10. | JPP-51.1-012925 | Soil | C | | 1/29/25 | 14:20 | 8 | | | X | X | X | X | X | X | X | |

PRESERVATIVES: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. RA | 1/30/2025 | 1. 1045 1-30-25 |
| 2. | | 2. |
| 3. | DATE/TIME: 1152 1-30-25 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: Preserve extra Sample Jar If additional analysis is required.

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO



WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255424 Rev 1 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1232 RUTW01
**Client Name :** RU2 Engineering, LLC
**Client Contact :** Rutu Manani
**Invoice Name :** RU2 Engineering, LLC
**Invoice Contact :** Rutu Manani

**Order Date :** 1/30/2025 11:55:00 AM
**Project Name :** NYCDDC SANTWOBR Bi
**Receive DateTime :** 1/30/2025 11:52:00 AM
**Purchase Order :**

**Project Mgr :** Kiran
**Report Type :** NYS ASP B
**EDD Type :** Excel NY
**Hard Copy Date :**
**Date Signoff :** 1/30/2025 1:25:39 PM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q1232-01 | JPP-46.2-012925 | Solid | 01/29/2025 | 09:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 10 Bus. Days |
| Q1232-05 | JPP-46.1-012925 | Solid | 01/29/2025 | 10:10 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 10 Bus. Days |
| Q1232-09 | JPP-42.1-012925 | Solid | 01/29/2025 | 11:24 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 10 Bus. Days |
| Q1232-13 | JPP-42.2-012925 | Solid | 01/29/2025 | 12:24 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 10 Bus. Days |
| Q1232-17 | JPP-51.1-012925 | Solid | 01/29/2025 | 14:14 | | | | | |
| | | | | | VOCMS Group1 | | 8260D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 1130 25 1700

**Received By :**
**Date / Time :** 1.30.25 17:00

**Storage Area :** **VOA Refridgerator Room**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1232 RUTW01
**Client Name :** RU2 Engineering, LLC
**Client Contact :** Rutu Manani
**Invoice Name :** RU2 Engineering, LLC
**Invoice Contact :** Rutu Manani

**Order Date :** 1/30/2025 11:55:00 AM
**Project Name :** NYCDDC SANTWOBR Bı
**Receive DateTime :** 1/30/2025 11:52:00 AM
**Purchase Order :**

**Project Mgr :** Kiran
**Report Type :** NYS ASP B
**EDD Type :** Excel NY
**Hard Copy Date :**
**Date Signoff :** 1/30/2025 1:25:39 PM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q1232-01 | JPP-46.2-012925 | Solid | 01/29/2025 | 09:00 | | | | | |
| | | | | | Gasoline Range Organics | | 8015D | | 10 Bus. Days |
| Q1232-05 | JPP-46.1-012925 | Solid | 01/29/2025 | 10:10 | | | | | |
| | | | | | Gasoline Range Organics | | 8015D | | 10 Bus. Days |
| Q1232-09 | JPP-42.1-012925 | Solid | 01/29/2025 | 11:24 | | | | | |
| | | | | | Gasoline Range Organics | | 8015D | | 10 Bus. Days |
| Q1232-13 | JPP-42.2-012925 | Solid | 01/29/2025 | 12:24 | | | | | |
| | | | | | Gasoline Range Organics | | 8015D | | 10 Bus. Days |
| Q1232-17 | JPP-51.1-012925 | Solid | 01/29/2025 | 14:14 | | | | | |
| | | | | | Gasoline Range Organics | | 8015D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 1/30/25 1700

**Received By :**
**Date / Time :** 1·30·25 17:00

**Storage Area :** VOA Refridgerator Room