

Cover Page

Order ID : P5002

Project ID : North Point

Client : ENTACT

Lab Sample Number

P5002-01

Client Sample Number

EX-7-TPH-1

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: 12/3/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5002

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 Custody

✓

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: PRADIP PRAJAPATI

Date: 12/03/2024

LAB CHRONICLE

OrderID:	P5002	OrderDate:	11/25/2024 4:01:00 PM
Client:	ENTACT	Project:	North Point
Contact:	Wyatt Seel	Location:	L61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5002-01	EX-7-TPH-1	SOIL			11/25/24			11/25/24
			Diesel Range Organics	8015D		11/26/24	11/27/24	
			Gasoline Range Organics	8015D			11/26/24	



QC SUMMARY

SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: ENTACT

Lab Code: CHEM Case No.: P5002 SAS No.: P5002 SDG No.: P5002

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBFI126S2	89				0
BSFI126S1	83				0
EX-7-TPH-1	199 *				1
BSFI126S2	102				0

QC LIMITS

AAA-TFT

For Water : 50-150

For Soil : 50-150

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted Out

SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATION

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P5002 **SAS No :** P5002 **SDG No:** P5002
Matrix Spike - EPA Sample No : BSF1126S1 **Datafile:** FB031268.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	177	98	50-150

SOIL GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATION

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P5002 **SAS No :** P5002 **SDG No:** P5002
Matrix Spike - EPA Sample No : BSF1126S2 **Datafile:** FB031272.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	184	102	50-150

LCS/LCSD % Recovery RPD : 3.9

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF1126S2

Lab Name: CHEMTECH

Contract: ENTA05

Lab Code: CHEM Case No.: P5002

SAS No.: P5002 SDG NO.: P5002

Lab File ID: FB031267.D

Lab Sample ID: VBF1126S2

Date Analyzed: 11/26/24

Time Analyzed: 11:30

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
BSF1126S1	BSF1126S1	FB031268.D	11/26/24
EX-7-TPH-1	P5002-01	FB031270.D	11/26/24
BSF1126S2	BSF1126S2	FB031272.D	11/26/24

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	11/25/24
Project:	North Point	Date Received:	11/25/24
Client Sample ID:	EX-7-TPH-1	SDG No.:	P5002
Lab Sample ID:	P5002-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	84.6
Sample Wt/Vol:	7.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031270.D	50	11/26/24 13:22	FB112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	15100		324	1890	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	39.8	*	50 - 150	199%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031270.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 13:22
Operator : YP/AJ
Sample : P5002-01 50X
Misc : 7.04G/5.00 ML MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
EX-7-TPH-1

Integration File: SAMPLE.e
Quant Time: Nov 27 00:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
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	8.816	1118981	39.754 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

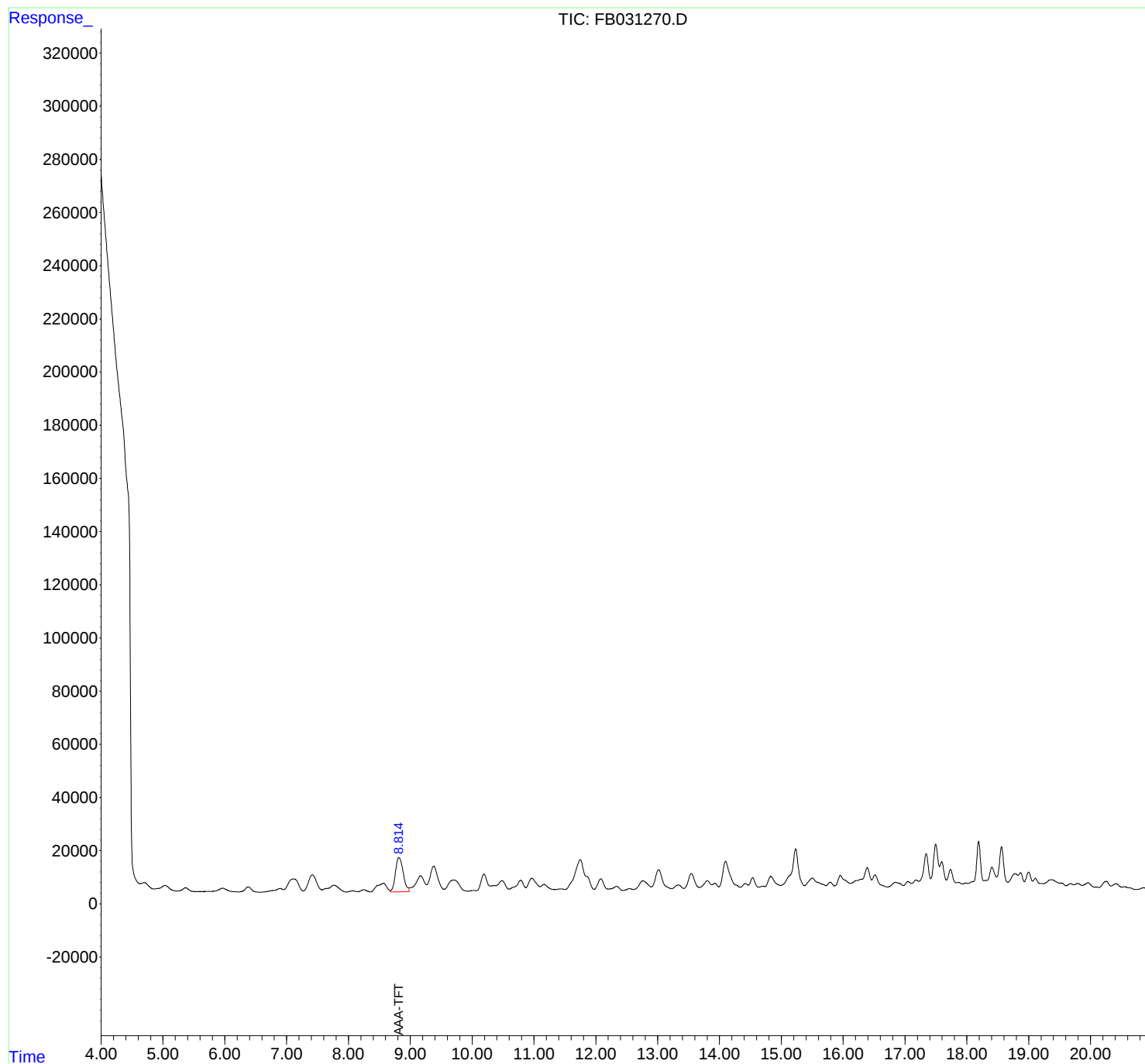
(m)=manual int.

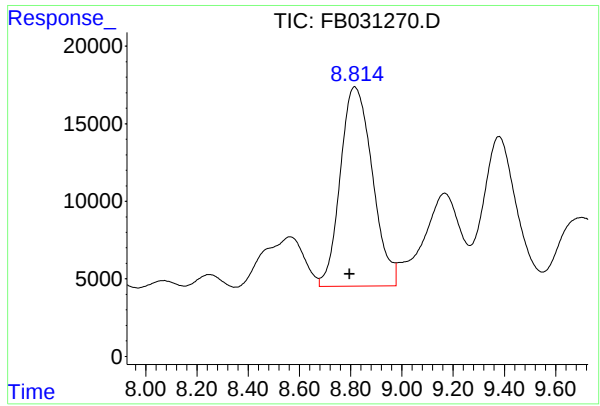
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031270.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 13:22
Operator : YP/AJ
Sample : P5002-01 50X
Misc : 7.04G/5.00 ML MEOH
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
EX-7-TPH-1

Integration File: SAMPLE.e
Quant Time: Nov 27 00:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
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.: 8.816 min
Delta R.T.: 0.020 min
Response: 1118981
Conc: 39.75 ng/ml

Instrument :
FID_B
ClientSampleId :
EX-7-TPH-1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
 Data File : FB031270.D
 Signal(s) : FID2B.CH
 Acq On : 26 Nov 2024 13:22
 Sample : P5002-01 50X
 Misc : 7.04G/5.00 ML MEOH
 ALS Vial : 6 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
 Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.694	4.604	4.856	BV	931	54700	3.72%	0.318%
2	5.516	5.508	5.541	PV	19	233	0.02%	0.001%
3	5.556	5.541	5.569	PV	15	183	0.01%	0.001%
4	5.622	5.569	5.635	VV	52	1253	0.09%	0.007%
5	5.643	5.635	5.653	VV	44	382	0.03%	0.002%
6	5.747	5.653	5.761	VV	125	5678	0.39%	0.033%
7	5.967	5.761	6.171	VV	1353	134022	9.12%	0.778%
8	6.175	6.171	6.230	VV	63	1538	0.10%	0.009%
9	6.380	6.230	6.559	VV	1947	135189	9.19%	0.785%
10	7.120	6.952	7.268	VV	4354	465817	31.68%	2.704%
11	7.417	7.268	7.574	PV	6141	550669	37.45%	3.197%
12	7.764	7.574	7.971	VV	2438	297059	20.20%	1.725%
13	8.071	7.971	8.152	PV	468	28474	1.94%	0.165%
14	8.248	8.152	8.355	VV	839	52348	3.56%	0.304%
15	8.564	8.355	8.677	VV	3230	358728	24.40%	2.083%
16	8.816	8.677	8.978	VV	12895	1121106	76.25%	6.509%
17	9.167	8.978	9.265	VV	5976	603183	41.02%	3.502%
18	9.379	9.265	9.549	VV	9606	864296	58.78%	5.018%
19	9.701	9.549	9.939	VV	4355	532450	36.21%	3.091%
20	10.023	9.939	10.069	VV	417	22373	1.52%	0.130%
21	10.191	10.069	10.297	VV	6500	460309	31.31%	2.672%
22	10.484	10.297	10.598	VV	4023	447923	30.46%	2.601%
23	10.786	10.598	10.869	VV	4150	363953	24.75%	2.113%
24	10.964	10.869	11.100	VV	4874	440265	29.94%	2.556%
25	11.164	11.100	11.337	VV	2528	211811	14.41%	1.230%
26	11.434	11.337	11.501	VV	778	65470	4.45%	0.380%
27	11.748	11.501	11.971	VV	11720	1470326	100.00%	8.536%
28	12.081	11.971	12.199	VV	4487	317125	21.57%	1.841%
29	12.335	12.199	12.444	VV	1629	131279	8.93%	0.762%
30	12.542	12.444	12.613	VV	740	48206	3.28%	0.280%
31	12.762	12.613	12.896	VV	3708	373249	25.39%	2.167%
32	13.017	12.896	13.226	VV	7792	680738	46.30%	3.952%
33	13.333	13.226	13.423	VV	2045	165003	11.22%	0.958%
34	13.545	13.423	13.675	VV	6321	484260	32.94%	2.811%
35	13.802	13.675	13.877	VV	3586	289277	19.67%	1.679%
36	13.925	13.877	13.989	VV	2607	143082	9.73%	0.831%

					rteres			
37	14.099	13.989	14.338	VV	10842	983965	66.92%	5.713%
38	14.419	14.338	14.466	VV	2504	146545	9.97%	0.851%
39	14.537	14.466	14.634	VV	4652	280047	19.05%	1.626%
40	14.698	14.634	14.728	VV	1408	72477	4.93%	0.421%
41	14.832	14.728	14.989	VV	5067	465222	31.64%	2.701%
42	15.232	14.989	15.379	VV	15399	1368231	93.06%	7.944%
43	15.502	15.379	15.720	VV	4372	574111	39.05%	3.333%
44	15.792	15.720	15.865	VV	2777	181166	12.32%	1.052%
45	15.956	15.865	16.119	VV	5338	515306	35.05%	2.992%
46	16.391	16.119	16.463	VV	8157	903239	61.43%	5.244%
47	16.516	16.463	16.705	VBA	5520	412015	28.02%	2.392%
					Sum of corrected areas:	17224275		

FB112124.M Wed Nov 27 00:57:16 2024



CALIBRATION SUMMARY

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: ENTA05
 ProjectID: North Point
 Lab Code: CHEM Case No.: P5002 SAS No.: P5002 SDG No.: P5002

Calibration Sequence : FB112124			Test : Gasoline Range Organics	
Concentration (PPB)	Area Count	Reference Factor	File ID	
45	2157271	47939	FB031249.D	
90	3980278	44225	FB031250.D	
180	7517318	41763	FB031251.D	
450	20681397	45959	FB031252.D	
900	40044417	44494	FB031253.D	
AVG RF : 44876		% RSD : 5.083		AVG RT : 8.7942

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P5002 SAS No.: P5002 SDG No.: P5002
DataFile: FB031265.D Analyst Name: YP/AJ Analyst Date: 11-26-2024

Conc. (PPB)	Area Count	RF	Average RF	%D
180	8361363	46452	44876	3.512

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
 Data File : FB031265.D
 Signal(s) : FID2B.CH
 Acq On : 26 Nov 2024 10:26
 Operator : YP/AJ
 Sample : 20 PPB GRO STD
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 PPB GRO STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :Ankita Jodhani 11/27/2024

Integration File: SAMPLE.e
 Quant Time: Nov 27 00:12:13 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
 Quant Title :
 QLast Update : Thu Nov 21 12:34:29 2024
 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	8.787	641391	22.787 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.716	1258361	31.907 ng/mlm
2) t 2,2,4-Trimethylpentane	7.417	1488945	31.487 ng/ml
3) t n-Heptane	7.749	443213	9.490 ng/ml
4) t Benzene	7.887	553815	10.218 ng/ml
6) t Toluene	10.616	1519443	30.384 ng/ml
7) t Ethylbenzene	13.053	456810	10.413 ng/ml
8) t m-Xylene	13.186	982471	20.838 ng/ml
9) t O-Xylene	13.914	901834	20.706 ng/ml
10) t 1,2,4-Trimethylbenzene	16.191	756471	21.192 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031265.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 10:26
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

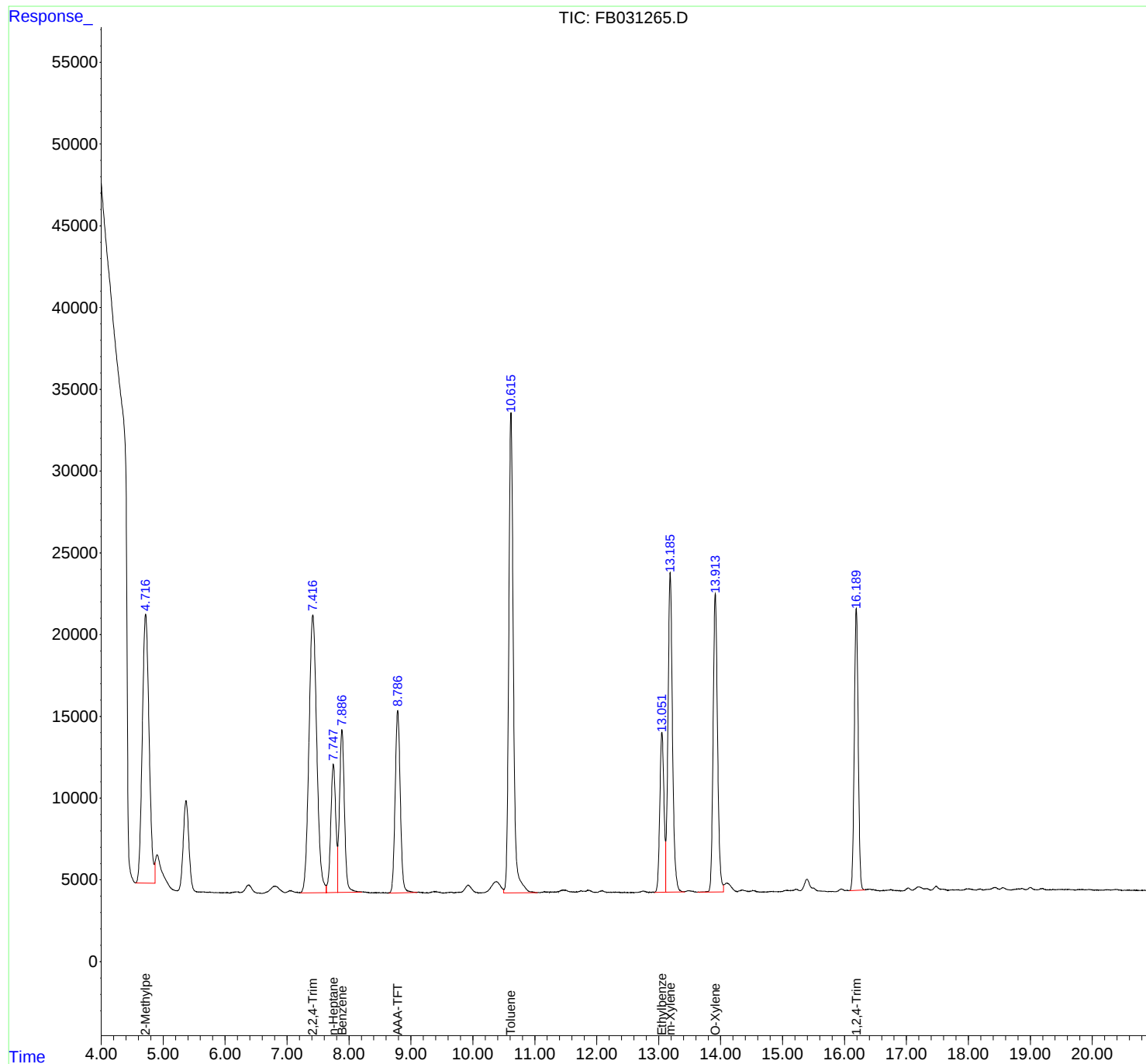
Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024

Integration File: SAMPLE.e
Quant Time: Nov 27 00:12:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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



nteres

Instrument :
FID_B
LabSampleId :
20 PPB GRO STD
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB11262
Data File : FB031265.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 10:26
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :Ankita Jodhani 11/27/2024

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.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	4.582	4.857	BV	15789	1139260	74.98%	12.824%
2	7.417	7.218	7.634	PV	16986	1488945	97.99%	16.761%
3	7.749	7.634	7.817	VV	7845	443213	29.17%	4.989%
4	7.887	7.817	8.208	VV	9960	553815	36.45%	6.234%
5	8.787	8.644	9.102	PV	11150	641391	42.21%	7.220%
6	10.616	10.499	11.045	VV	29372	1519443	100.00%	17.104%
7	13.053	12.932	13.113	PV	9784	456810	30.06%	5.142%
8	13.186	13.113	13.419	VV	19534	982471	64.66%	11.059%
9	13.914	13.625	14.047	BV	18230	901834	59.35%	10.152%
10	16.191	16.076	16.330	VV	17216	756471	49.79%	8.515%

Sum of corrected areas: 8883652

FB112124.M Wed Nov 27 00:54:39 2024

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P5002 SAS No.: P5002 SDG No.: P5002
DataFile: FB031273.D Analyst Name: YP/AJ Analyst Date: 11-26-2024

Conc. (PPB)	Area Count	RF	Average RF	%D
180	7675360	42641	44876	4.98

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
 Data File : FB031273.D
 Signal(s) : FID2B.CH
 Acq On : 26 Nov 2024 14:55
 Operator : YP/AJ
 Sample : 20 PPB GRO STD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 PPB GRO STD

Integration File: SAMPLE.e
 Quant Time: Nov 27 00:13:25 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
 Quant Title :
 QLast Update : Thu Nov 21 12:34:29 2024
 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	8.796	489058	17.375 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.723	1161289	29.446 ng/ml
2) t 2,2,4-Trimethylpentane	7.429	1356938	28.695 ng/ml
3) t n-Heptane	7.757	435788	9.331 ng/ml
4) t Benzene	7.896	514414	9.491 ng/ml
6) t Toluene	10.625	1434894	28.693 ng/ml
7) t Ethylbenzene	13.061	414049	9.438 ng/ml
8) t m-Xylene	13.194	886326	18.799 ng/ml
9) t O-Xylene	13.922	823764	18.914 ng/ml
10) t 1,2,4-Trimethylbenzene	16.198	647898	18.150 ng/ml

(f)=RT Delta > 1/2 Window

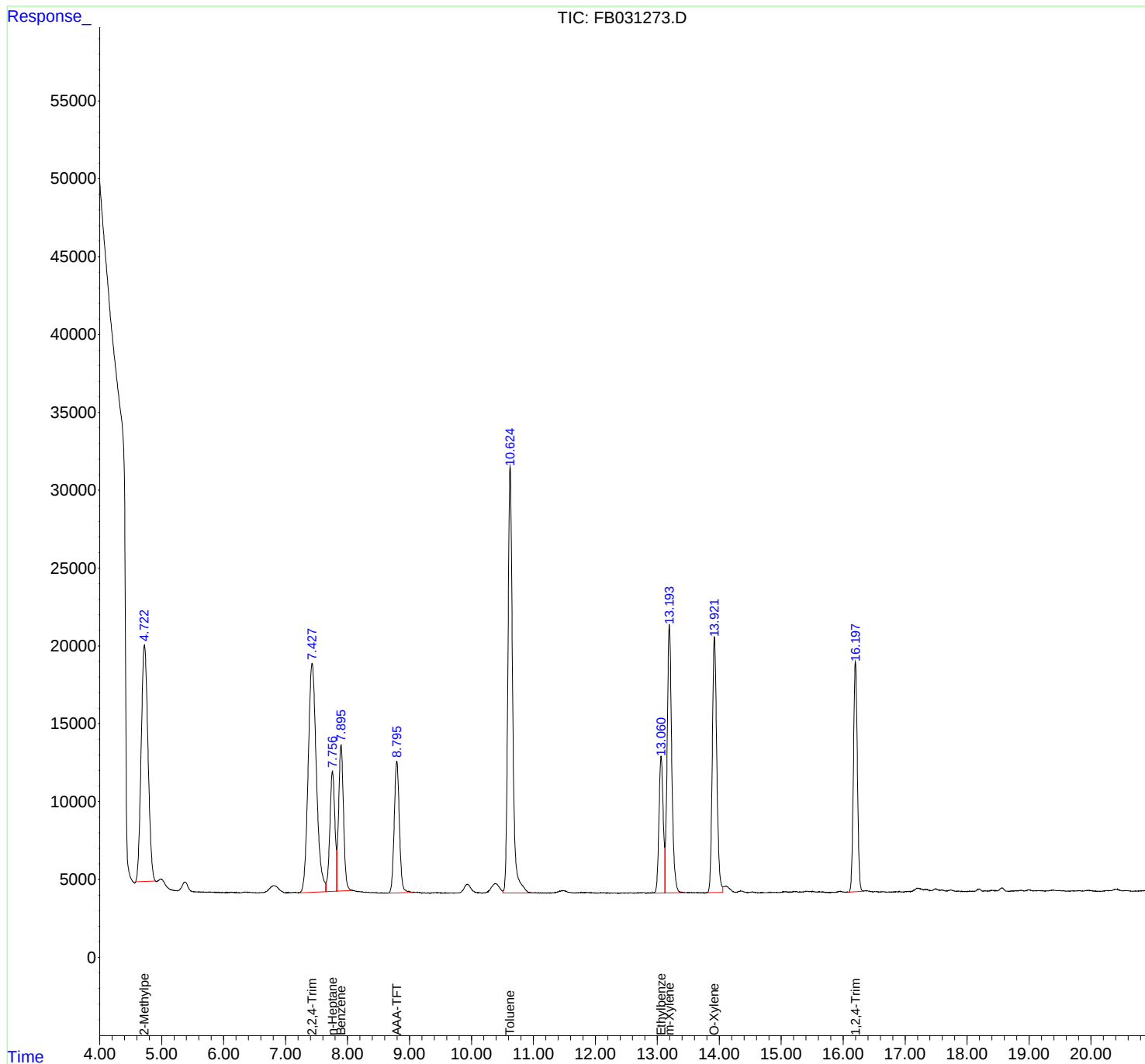
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031273.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 14:55
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Integration File: SAMPLE.e
Quant Time: Nov 27 00:13:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031273.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 14:55
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.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	4.582	4.900	BBA	15202	1161289	80.93%	14.224%
2	7.429	7.218	7.649	BV	14695	1356938	94.57%	16.620%
3	7.757	7.649	7.825	VV	7716	435788	30.37%	5.338%
4	7.896	7.825	8.075	VV	9392	514414	35.85%	6.301%
5	8.796	8.651	9.049	BV	8460	489058	34.08%	5.990%
6	10.625	10.507	10.964	VV	27371	1434894	100.00%	17.575%
7	13.061	12.934	13.122	VV	8780	414049	28.86%	5.071%
8	13.194	13.122	13.416	VV	17232	886326	61.77%	10.856%
9	13.922	13.800	14.056	PV	16395	823764	57.41%	10.090%
10	16.198	16.085	16.336	PV	14759	647898	45.15%	7.936%

Sum of corrected areas: 8164419

FB112124.M Wed Nov 27 00:56:14 2024

Analytical Sequence

Client: ENTACT

SDG No.: P5002

Project: North Point

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 8.7942					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	26 Nov 2024 10:26	FB031265.D	8.787	
VBF1126S2	VBF1126S2	26 Nov 2024 11:30	FB031267.D	8.793	
BSF1126S1	BSF1126S1	26 Nov 2024 11:57	FB031268.D	8.793	
EX-7-TPH-1	P5002-01	26 Nov 2024 13:22	FB031270.D	8.816	
BSF1126S2	BSF1126S2	26 Nov 2024 14:28	FB031272.D	8.796	
20 PPB GRO STD	20 PPB GRO STD	26 Nov 2024 14:55	FB031273.D	8.796	



QC SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	North Point	Date Received:	
Client Sample ID:	VBF1126S2	SDG No.:	P5002
Lab Sample ID:	VBF1126S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031267.D	50	11/26/24 11:30	FB112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	386	U	386	2250	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.9		50 - 150	89%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031267.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 11:30
Operator : YP/AJ
Sample : VBF1126S2 50X
Misc : 5.00G/5.00 ML MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF1126S2

Integration File: SAMPLE.e
Quant Time: Nov 27 00:12:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
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	502842	17.865 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

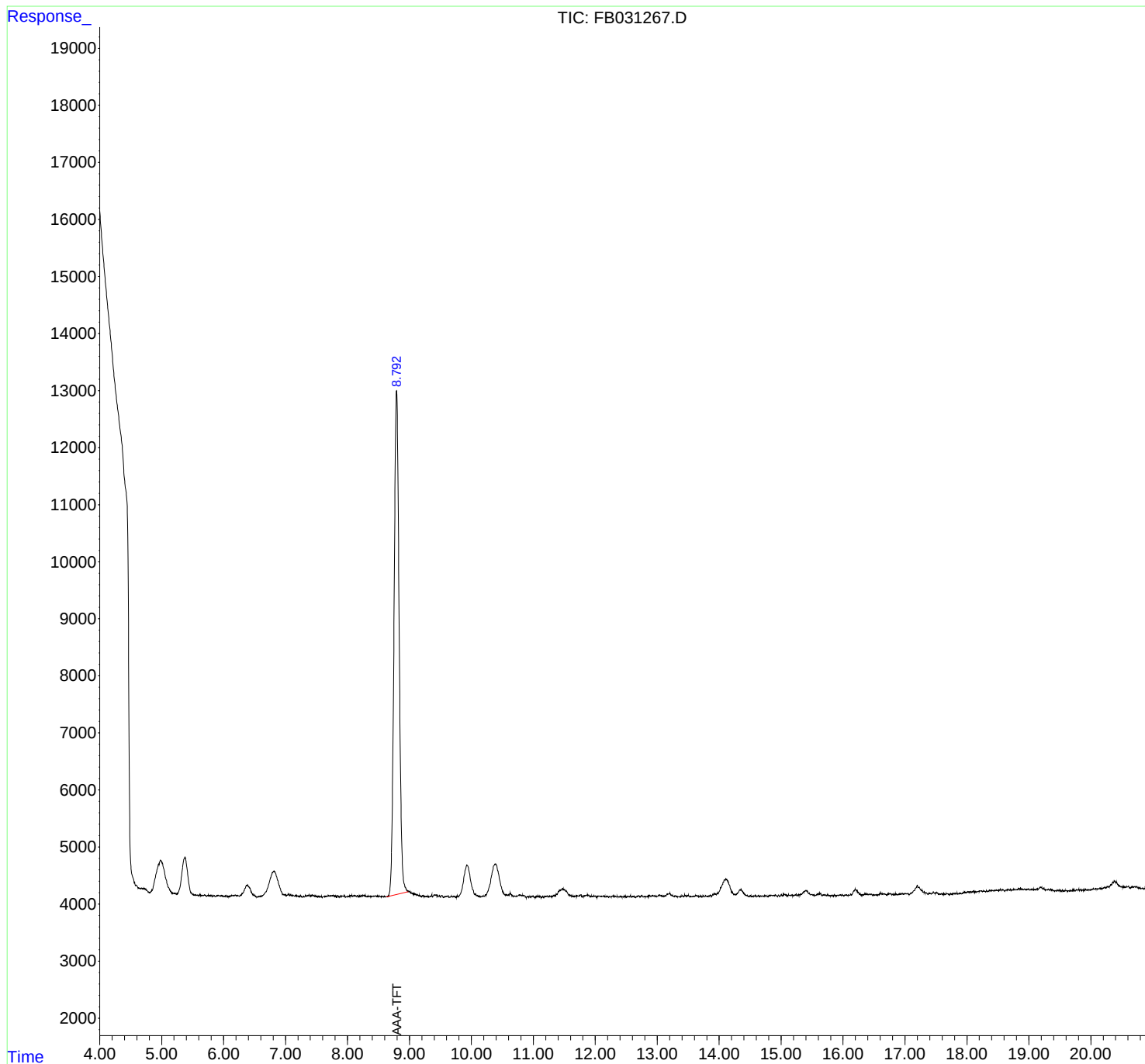
(m)=manual int.

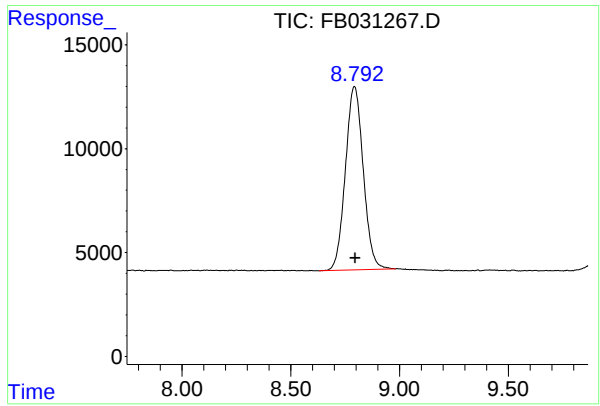
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031267.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 11:30
Operator : YP/AJ
Sample : VBF1126S2 50X
Misc : 5.00G/5.00 ML MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF1126S2

Integration File: SAMPLE.e
Quant Time: Nov 27 00:12:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
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 min
Response: 502842
Conc: 17.86 ng/ml

Instrument :
FID_B
ClientSampleId :
VBF1126S2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031267.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 11:30
Sample : VBF1126S2 50X
Misc : 5.00G/5.00 ML ME0H
ALS Vial : 3 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.793	8.629	8.982	BV	8831	502842	100.00%	100.000%
Sum of corrected areas:							502842	

FB112124.M Wed Nov 27 00:55:08 2024

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	North Point	Date Received:	
Client Sample ID:	BSF1126S1	SDG No.:	P5002
Lab Sample ID:	BSF1126S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031268.D	1	11/26/24 11:57	FB112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	177		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.6		50 - 150	83%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
 Data File : FB031268.D
 Signal(s) : FID2B.CH
 Acq On : 26 Nov 2024 11:57
 Operator : YP/AJ
 Sample : BSF1126S1
 Misc : 5.00G/5.00 ML DI WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF1126S1

Integration File: SAMPLE.e
 Quant Time: Nov 27 00:12:40 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
 Quant Title :
 QLast Update : Thu Nov 21 12:34:29 2024
 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	467578	16.612 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.719	1205138	30.558 ng/ml
2) t 2,2,4-Trimethylpentane	7.425	1403899	29.688 ng/ml
3) t n-Heptane	7.755	448588	9.605 ng/ml
4) t Benzene	7.893	531087	9.799 ng/ml
6) t Toluene	10.622	1473933	29.474 ng/ml
7) t Ethylbenzene	13.058	425160	9.691 ng/ml
8) t m-Xylene	13.191	909202	19.284 ng/ml
9) t O-Xylene	13.919	846905	19.445 ng/ml
10) t 1,2,4-Trimethylbenzene	16.195	681262	19.085 ng/ml

(f)=RT Delta > 1/2 Window

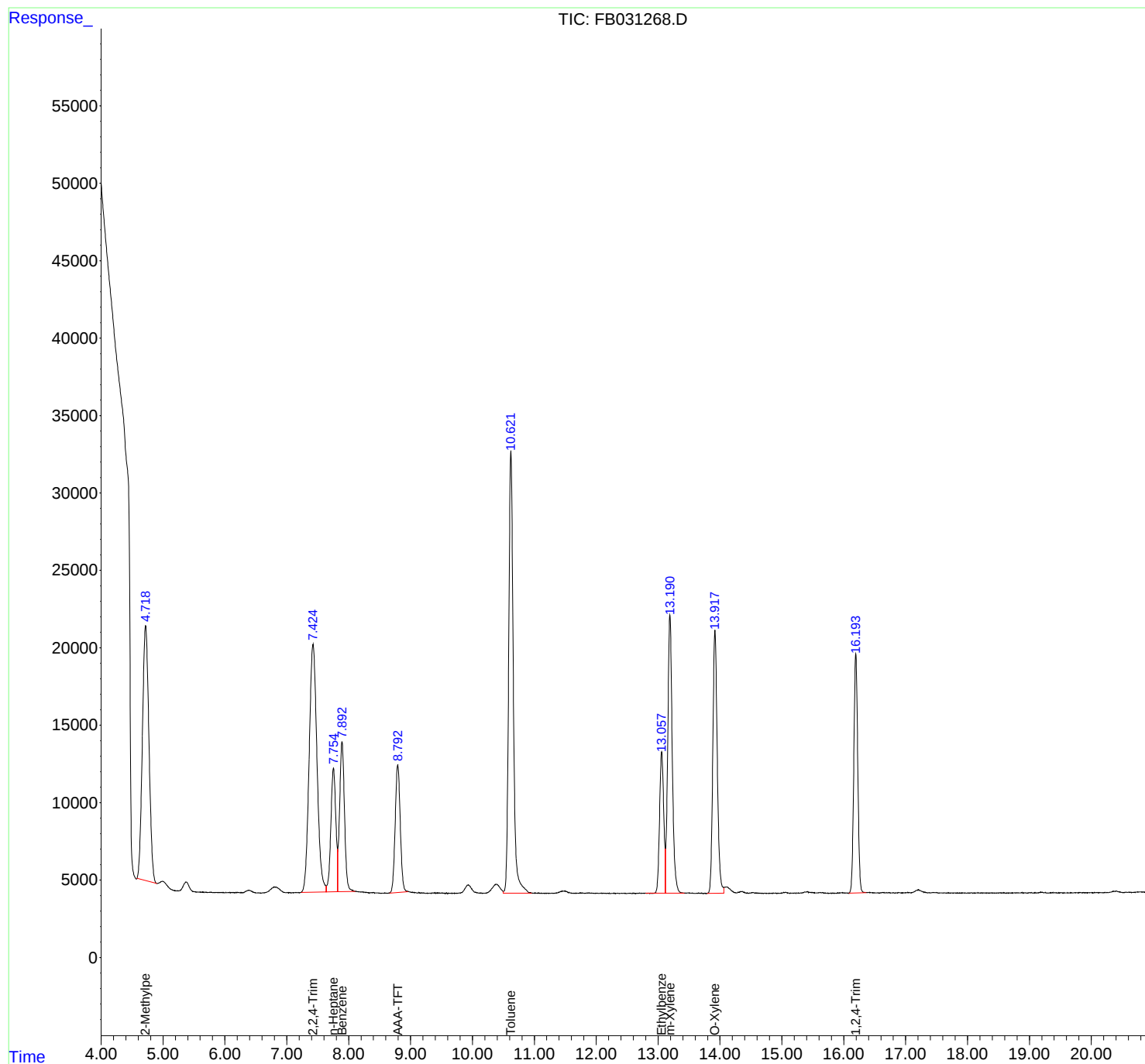
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031268.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 11:57
Operator : YP/AJ
Sample : BSF1126S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF1126S1

Integration File: SAMPLE.e
Quant Time: Nov 27 00:12:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031268.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 11:57
Sample : BSF1126S1
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\FB112124.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	4.582	4.900	BBA	16473	1205138	81.76%	14.359%
2	7.425	7.231	7.637	PV	16014	1403899	95.25%	16.728%
3	7.755	7.637	7.823	VV	7989	448588	30.43%	5.345%
4	7.893	7.823	8.105	VV	9678	531087	36.03%	6.328%
5	8.793	8.659	8.959	PV	8240	467578	31.72%	5.571%
6	10.622	10.497	10.960	VV	28566	1473933	100.00%	17.562%
7	13.058	12.798	13.119	BV	9126	425160	28.85%	5.066%
8	13.191	13.119	13.427	VV	17962	909202	61.69%	10.833%
9	13.919	13.792	14.062	PV	16986	846905	57.46%	10.091%
10	16.195	16.081	16.366	PV	15437	681262	46.22%	8.117%

Sum of corrected areas: 8392753

FB112124.M Wed Nov 27 00:55:31 2024

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	North Point	Date Received:	
Client Sample ID:	BSF1126S2	SDG No.:	P5002
Lab Sample ID:	BSF1126S2	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
FB031272.D	1	11/26/24 14:28	FB112624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	184		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	20.3		50 - 150	102%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
 Data File : FB031272.D
 Signal(s) : FID2B.CH
 Acq On : 26 Nov 2024 14:28
 Operator : YP/AJ
 Sample : BSF1126S2
 Misc : 5.00G/5.00 ML DI WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF1126S2

Integration File: SAMPLE.e
 Quant Time: Nov 27 00:13:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
 Quant Title :
 QLast Update : Thu Nov 21 12:34:29 2024
 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	8.796	572096	20.325 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.722	1258838	31.920 ng/ml
2) t 2,2,4-Trimethylpentane	7.427	1461004	30.896 ng/ml
3) t n-Heptane	7.757	478198	10.239 ng/ml
4) t Benzene	7.896	555252	10.245 ng/ml
6) t Toluene	10.624	1534686	30.689 ng/ml
7) t Ethylbenzene	13.060	440424	10.039 ng/ml
8) t m-Xylene	13.194	943213	20.006 ng/ml
9) t O-Xylene	13.922	877871	20.156 ng/ml
10) t 1,2,4-Trimethylbenzene	16.198	694321	19.451 ng/ml

(f)=RT Delta > 1/2 Window

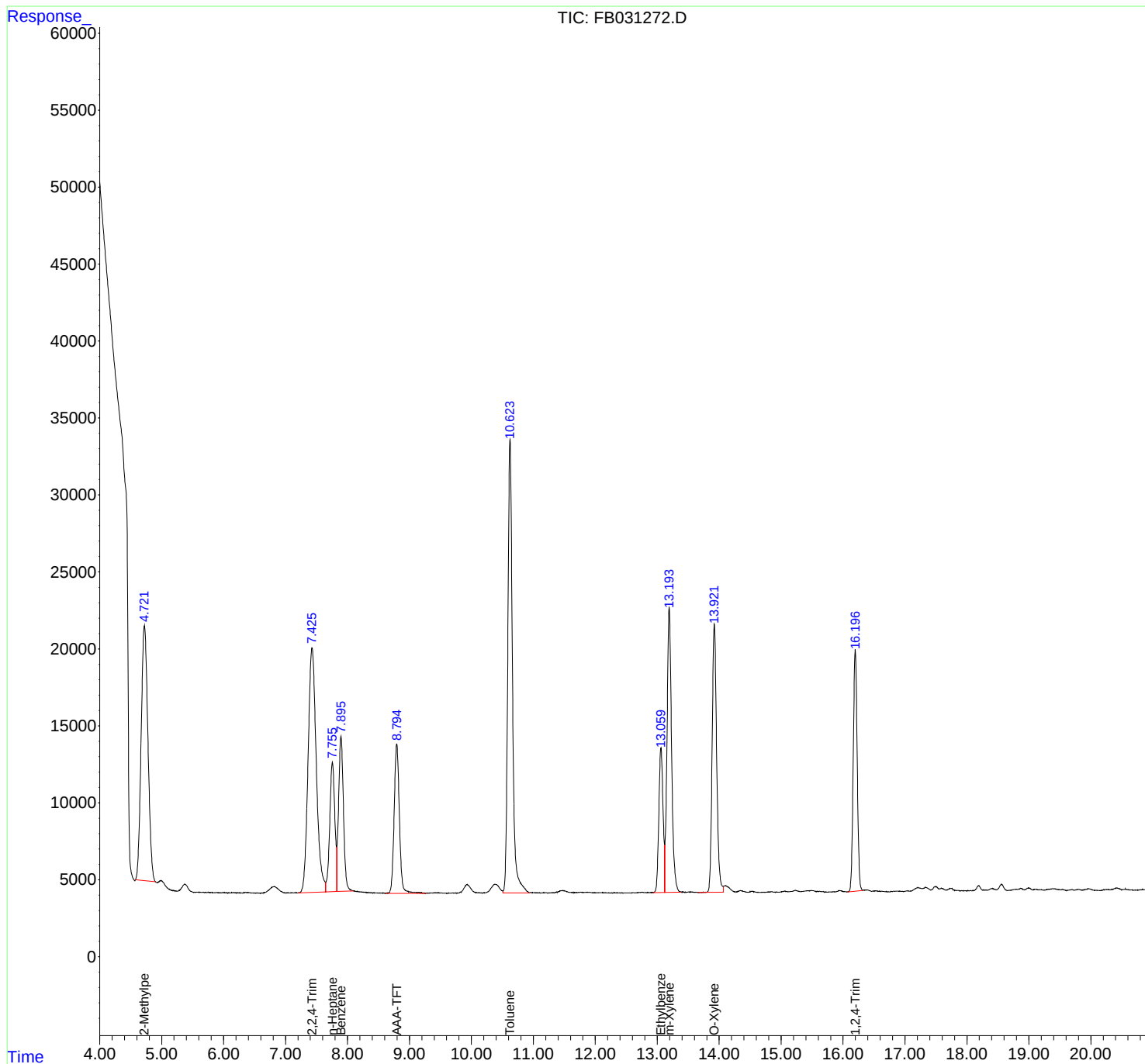
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031272.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 14:28
Operator : YP/AJ
Sample : BSF1126S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
BSF1126S2

Integration File: SAMPLE.e
Quant Time: Nov 27 00:13:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Quant Title :
QLast Update : Thu Nov 21 12:34:29 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB112624\
Data File : FB031272.D
Signal(s) : FID2B.CH
Acq On : 26 Nov 2024 14:28
Sample : BSF1126S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB112124.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.722	4.582	4.900	BBA	16562	1258838	82.03%	14.279%
2	7.427	7.198	7.646	BV	15907	1461004	95.20%	16.572%
3	7.757	7.646	7.825	VV	8421	478198	31.16%	5.424%
4	7.896	7.825	8.094	VV	10080	555252	36.18%	6.298%
5	8.796	8.618	9.266	BB	9698	572096	37.28%	6.489%
6	10.624	10.509	10.945	VV	29457	1534686	100.00%	17.408%
7	13.060	12.932	13.121	BV	9382	440424	28.70%	4.996%
8	13.194	13.121	13.390	VV	18470	943213	61.46%	10.699%
9	13.922	13.658	14.065	BV	17440	877871	57.20%	9.958%
10	16.198	16.080	16.324	BV	15686	694321	45.24%	7.876%

Sum of corrected areas: 8815903

FB112124.M Wed Nov 27 00:55:57 2024

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
20 PPB GRO STD		FB031265.D	FB112624	2-Methylpentane	Ankita	11/27/2024 12:38:42 PM	Peak Integrated by Software incorrectly

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB112124

Review By	yogesh	Review On	11/21/2024 12:40:59 PM
Supervise By	Ankita	Supervise On	11/21/2024 4:22:27 PM
SubDirectory	FB112124	HP Acquire Method	HP Processing Method FB112124
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23534,PP24008,PP24009,PP24010,PP24011,PP24012		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23535,PP24013		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	5 GRO STD	FB031249.D	21 Nov 2024 11:13	YP/AJ	Ok
2	10 GRO STD	FB031250.D	21 Nov 2024 11:39	YP/AJ	Ok
3	20 GRO STD	FB031251.D	21 Nov 2024 12:06	YP/AJ	Ok
4	50 GRO STD	FB031252.D	21 Nov 2024 12:33	YP/AJ	Ok
5	100 GRO STD	FB031253.D	21 Nov 2024 13:00	YP/AJ	Ok
6	FB112124GROICV	FB031254.D	21 Nov 2024 14:05	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB112624

Review By	yogesh	Review On	11/26/2024 12:23:42 PM
Supervise By	Ankita	Supervise On	11/27/2024 12:38:48 PM
SubDirectory	FB112624	HP Acquire Method	HP Processing Method FB112124
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23534,PP24008,PP24009,PP24010,PP24011,PP24012		
CCC Internal Standard/PEM	PP24071,PP24072		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23535,PP24013		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	20 PPB GRO STD	FB031265.D	26 Nov 2024 10:26	YP/AJ	Ok,M
2	VBF1126S1	FB031266.D	26 Nov 2024 11:04	YP/AJ	Ok
3	VBF1126S2	FB031267.D	26 Nov 2024 11:30	YP/AJ	Ok
4	BSF1126S1	FB031268.D	26 Nov 2024 11:57	YP/AJ	Ok
5	P5002-01	FB031269.D	26 Nov 2024 12:38	YP/AJ	Dilution
6	P5002-01	FB031270.D	26 Nov 2024 13:22	YP/AJ	Ok
7	P5002-01	FB031271.D	26 Nov 2024 14:01	YP/AJ	Not Ok
8	BSF1126S2	FB031272.D	26 Nov 2024 14:28	YP/AJ	Ok
9	20 PPB GRO STD	FB031273.D	26 Nov 2024 14:55	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB112124

Review By	yogesh	Review On	11/21/2024 12:40:59 PM
Supervise By	Ankita	Supervise On	11/21/2024 4:22:27 PM
SubDirectory	FB112124	HP Acquire Method	HP Processing Method FB112124
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23534,PP24008,PP24009,PP24010,PP24011,PP24012		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23535,PP24013		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	5 GRO STD		FB031249.D	21 Nov 2024 11:13		YP/AJ	Ok
2	10 GRO STD		FB031250.D	21 Nov 2024 11:39		YP/AJ	Ok
3	20 GRO STD		FB031251.D	21 Nov 2024 12:06		YP/AJ	Ok
4	50 GRO STD		FB031252.D	21 Nov 2024 12:33		YP/AJ	Ok
5	100 GRO STD		FB031253.D	21 Nov 2024 13:00		YP/AJ	Ok
6	FB112124GROICV		FB031254.D	21 Nov 2024 14:05		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB112624

Review By	yogesh	Review On	11/26/2024 12:23:42 PM
Supervise By	Ankita	Supervise On	11/27/2024 12:38:48 PM
SubDirectory	FB112624	HP Acquire Method	HP Processing Method FB112124

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23534,PP24008,PP24009,PP24010,PP24011,PP24012
CCC	PP24071,PP24072
Internal Standard/PEM	
ICV/I.BLK	PP23535,PP24013
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	20 PPB GRO STD		FB031265.D	26 Nov 2024 10:26		YP/AJ	Ok,M
2	VBF1126S1		FB031266.D	26 Nov 2024 11:04		YP/AJ	Ok
3	VBF1126S2		FB031267.D	26 Nov 2024 11:30		YP/AJ	Ok
4	BSF1126S1		FB031268.D	26 Nov 2024 11:57		YP/AJ	Ok
5	P5002-01		FB031269.D	26 Nov 2024 12:38	need dilution;Vial A	YP/AJ	Dilution
6	P5002-01		FB031270.D	26 Nov 2024 13:22	Vial C	YP/AJ	Ok
7	P5002-01		FB031271.D	26 Nov 2024 14:01	not required	YP/AJ	Not Ok
8	BSF1126S2		FB031272.D	26 Nov 2024 14:28		YP/AJ	Ok
9	20 PPB GRO STD		FB031273.D	26 Nov 2024 14:55		YP/AJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/26/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 11/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133600

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
P4985-01	MH-756-WC	1	1.16	8.80	9.96	8.91	88.1	
P4985-02	MH-756-EPH	2	1.18	8.50	9.68	8.66	88.0	
P4985-03	MH-756-VOC	3	1.15	8.82	9.97	9.15	90.7	
P4985-05	MH-740-WC	4	1.12	8.74	9.86	8.93	89.4	
P4985-06	MH-740-EPH	5	1.16	8.74	9.9	8.99	89.6	
P4985-07	MH-740-VOC	6	1.15	8.84	9.99	9.02	89.0	
P4986-01	TAPIAL1-SB04D-9-112224-00-T1	7	1.19	8.62	9.81	9.28	93.9	
P4986-02	TAPIAL1-SB04D-4-112224-00-T1	8	1.17	8.70	9.87	9.24	92.8	
P4994-01	33218	9	1.00	1.00	2.00	2.00	100.0	debris
P4998-01	FCA546C-1-1	10	1.00	1.00	2.00	2.00	100.0	oilc
P4998-02	FCA546C-1-2	11	1.00	1.00	2.00	2.00	100.0	oilc
P4998-03	CABLE-1-1	12	1.00	1.00	2.00	2.00	100.0	oilc
P4998-04	CABLE-1-2	13	1.00	1.00	2.00	2.00	100.0	oilc
P4999-01	Y2309-0009-1-1	14	1.00	1.00	2.00	2.00	100.0	oilc
P4999-02	Y2309-0009-1-2	15	1.00	1.00	2.00	2.00	100.0	oilc
P4999-03	Y2308-0012-1-1	16	1.00	1.00	2.00	2.00	100.0	oilc
P4999-04	Y2308-0012-1-2	17	1.00	1.00	2.00	2.00	100.0	oilc
P4999-05	HIH407T-1-1	18	1.00	1.00	2.00	2.00	100.0	oilc
P4999-06	HIH407T-1-2	19	1.00	1.00	2.00	2.00	100.0	oilc
P4999-07	EDA834Y-1-1	20	1.00	1.00	2.00	2.00	100.0	oilc
P4999-08	EDA834Y-1-2	21	1.00	1.00	2.00	2.00	100.0	oilc
P4999-09	HEC991Z-1-1	22	1.00	1.00	2.00	2.00	100.0	oilc
P4999-10	HEC991Z-1-1	23	1.00	1.00	2.00	2.00	100.0	oilc
P5000-01	MH-745	24	1.15	8.63	9.78	8.29	82.7	
P5000-02	MH-745-EPH	25	1.11	8.68	9.79	8.43	84.3	
P5000-03	MH-745-VOC	26	1.16	8.48	9.64	8.15	82.4	
P5000-05	MH-733	27	1.18	8.58	9.76	8.68	87.4	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/26/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 11/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133600

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
P5000-06	MH-733-EPH	28	1.18	8.52	9.7	8.54	86.4	
P5000-07	MH-733-VOC	29	1.15	8.84	9.99	9.1	89.9	
P5002-01	EX-7-TPH-1	30	1.18	8.81	9.99	8.63	84.6	

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

WORKLIST(Hardcopy Internal Chain)

193600

WorkList Name : %1-112524

WorkList ID : 185724

Department : Wet-Chemistry

Date : 11-25-2024 08:13:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4985-01	MH-756-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/23/2024	Chemtech -SO
P4985-02	MH-756-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/23/2024	Chemtech -SO
P4985-03	MH-756-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/23/2024	Chemtech -SO
P4985-05	MH-740-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/23/2024	Chemtech -SO
P4985-06	MH-740-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/23/2024	Chemtech -SO
P4985-07	MH-740-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/23/2024	Chemtech -SO
P4986-01	TAPIAL1-SB04D-9-112224-00-1	Solid	Percent Solids	Cool 4 deg C	WEST04	L51	11/22/2024	Chemtech -SO
P4986-02	TAPIAL1-SB04D-4-112224-00-1	Solid	Percent Solids	Cool 4 deg C	WEST04	L51	11/22/2024	Chemtech -SO
P4994-01	33218	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	11/25/2024	Chemtech -SO
P4998-01	FCA546C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/25/2024	Chemtech -SO
P4998-02	FCA546C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/25/2024	Chemtech -SO
P4998-03	CABLE-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/25/2024	Chemtech -SO
P4998-04	CABLE-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/25/2024	Chemtech -SO
P4999-01	Y2309-0009-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-02	Y2309-0009-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-03	Y2308-0012-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-04	Y2308-0012-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-05	HIH407T-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-06	HIH407T-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-07	EDA834Y-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-08	EDA834Y-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO

11-25-24 15:30

Date/Time 11-25-24

Raw Sample Received by: 17100

Raw Sample Relinquished by: 17100

WORKLIST(Hardcopy Internal Chain)

133600

WorkList Name : %1-112524 WorkList ID : 185724 Department : Wet-Chemistry Date : 11-25-2024 08:13:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4999-09	HEC991Z-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P4999-10	HEC991Z-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/25/2024	Chemtech -SO
P5000-01	MH-745	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/25/2024	Chemtech -SO
P5000-02	MH-745-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/25/2024	Chemtech -SO
P5000-03	MH-745-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/25/2024	Chemtech -SO
P5000-05	MH-733	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/25/2024	Chemtech -SO
P5000-06	MH-733-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/25/2024	Chemtech -SO
P5000-07	MH-733-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	11/25/2024	Chemtech -SO
P5002-01	EX-7-TPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	L61	11/25/2024	Chemtech -SO

Date/Time 11/25/24 15:30
 Raw Sample Received by: JH woc
 Raw Sample Relinquished by: JH woc

Date/Time 11/25/24 17:30
 Raw Sample Received by: JH woc
 Raw Sample Relinquished by: JH woc

Prep Standard - Chemical Standard Summary

Order ID : P5002

Test : Gasoline Range Organics

Prepbatch ID :

Sequence ID/Qc Batch ID: FB112624,

Standard ID :

PP23534,PP23535,PP23538,PP24008,PP24009,PP24010,PP24011,PP24012,PP24013,PP24071,PP24072,

Chemical ID :

P11121,P9826,V11252,V14143,W3112,

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
231	10 PPM GRO STD 1ST SOURCE	PP23534	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								07/30/2024

FROM 0.11100ml of P9826 + 9.89000ml of V14143 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
233	10 PPM GRO STD 2nd SOURCE	PP23535	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								07/30/2024

FROM 0.11100ml of P11121 + 9.89000ml of V14143 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3619	25 PPM AAA-TFT Surg	PP23538	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								07/30/2024

FROM 0.10000ml of V11252 + 9.90000ml of V14143 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
238	5 PPB ICC GRO STD	PP24008	11/21/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/21/2024

FROM 5.00000ml of W3112 + 0.00100ml of PP23538 + 0.00250ml of PP23534 = Final Quantity: 5.004 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
237	10 PPB ICC GRO STD	PP24009	11/21/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/21/2024

FROM 5.00000ml of W3112 + 0.00200ml of PP23538 + 0.00500ml of PP23534 = Final Quantity: 5.007 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
239	20 PPB ICC GRO STD	PP24010	11/21/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/21/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
235	50 PPB ICC GRO STD	PP24011	11/21/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/21/2024

FROM 5.00000ml of W3112 + 0.01000ml of PP23538 + 0.02500ml of PP23534 = Final Quantity: 5.035 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
234	100 PPB ICC GRO STD	PP24012	11/21/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/21/2024

FROM 5.00000ml of W3112 + 0.02000ml of PP23538 + 0.05000ml of PP23534 = Final Quantity: 5.070 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
240	20 PPB ICV GRO STD	PP24013	11/21/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/21/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23535 = Final Quantity: 5.014 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
241	20 PPB CCC GRO STD	PP24071	11/26/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								12/02/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
241	20 PPB CCC GRO STD	PP24072	11/26/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani 12/02/2024
<u>FROM</u> 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml								

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)	A0161776	01/25/2025	07/25/2024 / yogesh	02/10/2021 / Sohil	P11121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0155991	01/25/2025	07/25/2024 / yogesh	09/11/2020 / DHAVAL	P9826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30068 / VOA Mix, a, a, a-trifluorotoluene 2500uq/ml, P&T methanol, 1ml	A0158026	05/31/2028	11/27/2023 / yogesh	09/11/2020 / DHAVAL	V11252

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)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.

Catalog No. : 30065 **Lot No.:** A0161776

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 : July 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 CAS # 107-83-5 (Lot MKCB1674V) Purity 99%	1,507.0 µg/mL	+/- 8.9511 µg/mL Gravimetric +/- 84.5158 µg/mL Unstressed +/- 86.4925 µg/mL Stressed
2	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot SHBF8066V) Purity 99%	1,511.0 µg/mL	+/- 8.9749 µg/mL Gravimetric +/- 84.7402 µg/mL Unstressed +/- 86.7221 µg/mL Stressed
3	n-Heptane (C7) CAS # 142-82-5 (Lot SHBK8626) Purity 98%	498.8 µg/mL	+/- 2.9628 µg/mL Gravimetric +/- 27.9749 µg/mL Unstressed +/- 28.6292 µg/mL Stressed
4	Benzene CAS # 71-43-2 (Lot SHBK5679) Purity 99%	500.0 µg/mL	+/- 2.9698 µg/mL Gravimetric +/- 28.0411 µg/mL Unstressed +/- 28.6969 µg/mL Stressed
5	Toluene CAS # 108-88-3 (Lot MKCH9232) Purity 99%	1,510.0 µg/mL	+/- 8.9689 µg/mL Gravimetric +/- 84.6841 µg/mL Unstressed +/- 86.6647 µg/mL Stressed
6	Ethylbenzene CAS # 100-41-4 (Lot SHBL0706) Purity 99%	504.0 µg/mL	+/- 2.9936 µg/mL Gravimetric +/- 28.2654 µg/mL Unstressed +/- 28.9265 µg/mL Stressed
7	m-Xylene CAS # 108-38-3 (Lot SHBL0265) Purity 99%	1,005.0 µg/mL	+/- 5.9694 µg/mL Gravimetric +/- 56.3626 µg/mL Unstressed +/- 57.6808 µg/mL Stressed

8	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBK7739)	1,007.0 µg/mL	+/- 5.9813 +/- 56.4747 +/- 57.7956	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 99%	(Lot WXBC4246V)	1,008.0 µg/mL	+/- 5.9872 +/- 56.5308 +/- 57.8530	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

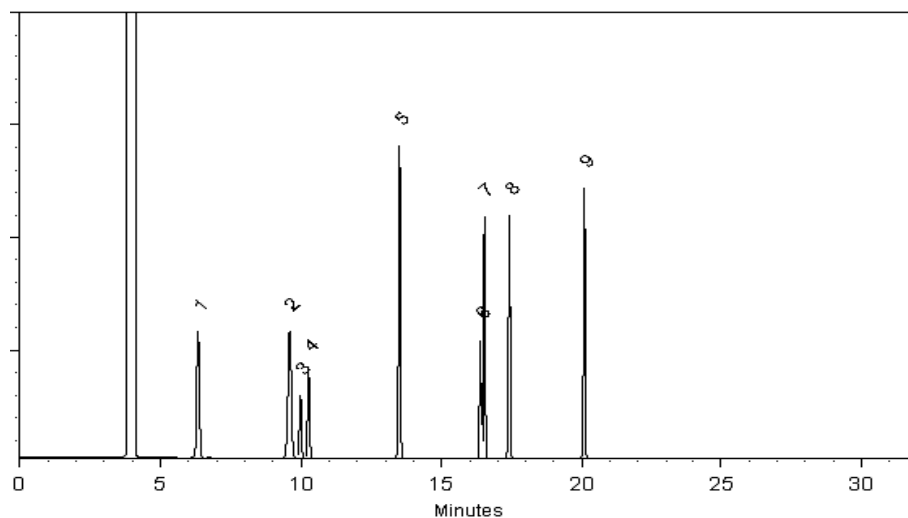
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 15-Jun-2020

Balance: B251644995

Fang-Yun Lo
Fang-Yun Lo - QC Analyst

Date Passed: 17-Jun-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
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

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS



NO. 1 OF 1

14.2 -



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