

Cover Page

Order ID : Q2100

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2100-01
Q2100-02
Q2100-03
Q2100-04

Client Sample Number

TP-16
TP-22
TP-21
TP-45

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: 5/27/2025

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 #: Q2100

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: SEMSETTIN YESILYURT

Date: 05/27/2025

LAB CHRONICLE

OrderID:	Q2100	OrderDate:	5/20/2025 3:22:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	TP-16	SOIL			05/19/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-02	TP-22	SOIL			05/19/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
			PCB	8082A		05/22/25	05/22/25	
Q2100-03	TP-21	SOIL			05/20/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-04	TP-45	SOIL			05/20/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	



QC SUMMARY

SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith
Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VBFO521S1	98				0
BSFO521S1	73				0
BSFO521S2	90				0
TP-16	75				0
TP-22	81				0
TP-21	98				0
TP-45	73				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:** CDM Smith
Lab Code: CHEM **Cas No:** Q2100 **SAS No :** Q2100 **SDG No:** Q2100
Matrix Spike - EPA Sample No : BSF0521S1 **Datafile:** FB031800.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	149	83	50-150

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

Lab Name: Chemtech **Client:** CDM Smith
Lab Code: CHEM **Cas No:** Q2100 **SAS No :** Q2100 **SDG No:** Q2100
Matrix Spike - EPA Sample No : BSF0521S2 **Datafile:** FB031804.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
GRO	180	0	161	89	50-150

LCS/LCSD % Recovery RPD : 7.7

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0521S1

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100

SAS No.: Q2100 SDG NO.: Q2100

Lab File ID: FB031798.D

Lab Sample ID: VBF0521S1

Date Analyzed: 05/21/25

Time Analyzed: 9:44

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
BSF0521S1	BSF0521S1	FB031800.D	05/21/25
BSF0521S2	BSF0521S2	FB031804.D	05/21/25
TP-16	Q2100-01	FB031806.D	05/21/25
TP-22	Q2100-02	FB031807.D	05/21/25
TP-21	Q2100-03	FB031808.D	05/21/25
TP-45	Q2100-04	FB031809.D	05/21/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	88.4
Sample Wt/Vol:	5.77	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Test:	Gasoline Range Organics
Prep Method :		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031806.D	1	05/21/25 14:34	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	44.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.0		50 - 150	75%	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\FB052125\
Data File : FB031806.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 14:34
Operator : YP/AJ
Sample : Q2100-01
Misc : 5.77G/5.00 ML DI WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-16

Integration File: Calibration.e
Quant Time: May 22 01:49:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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	324621	15.012 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

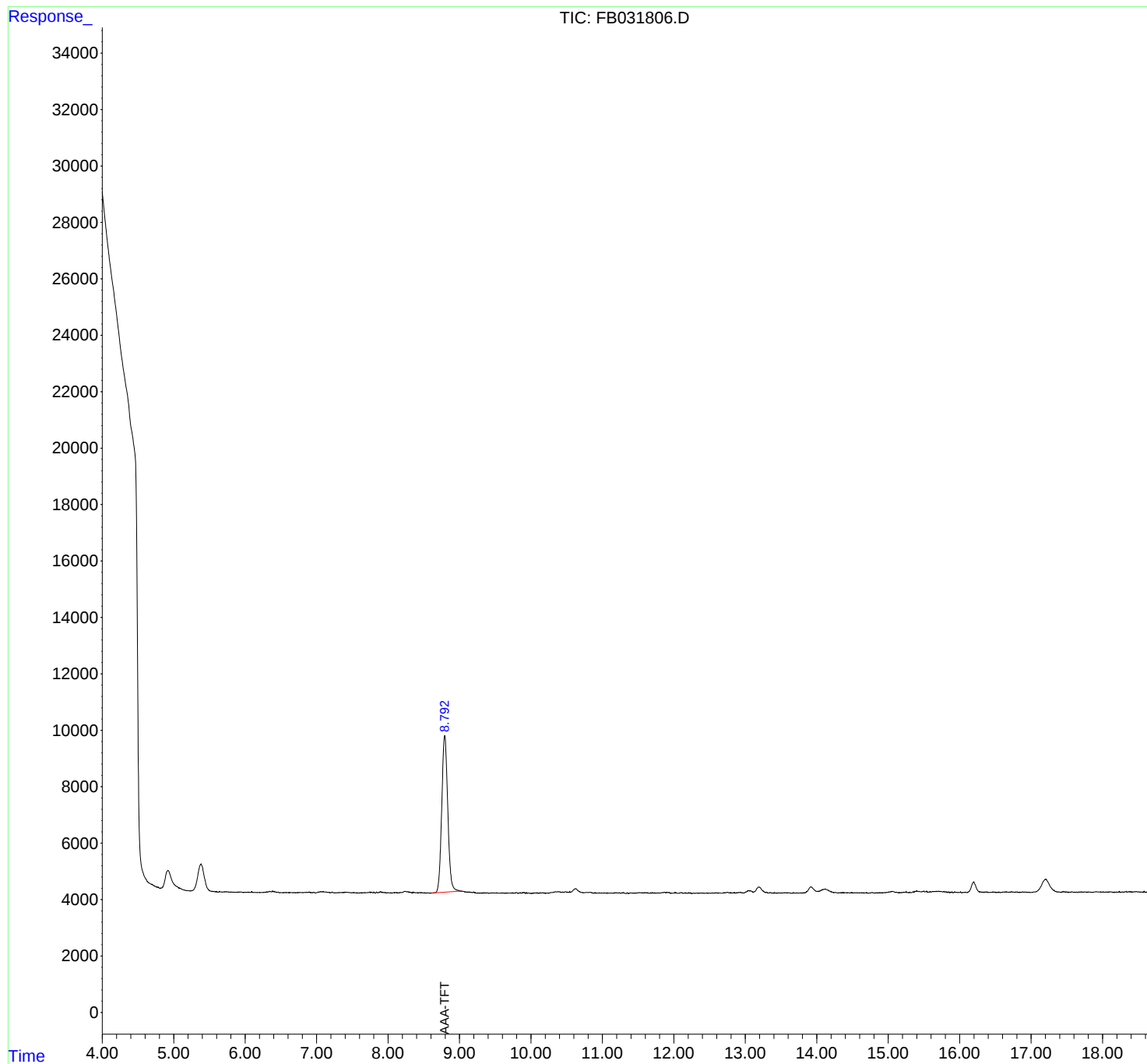
(m)=manual int.

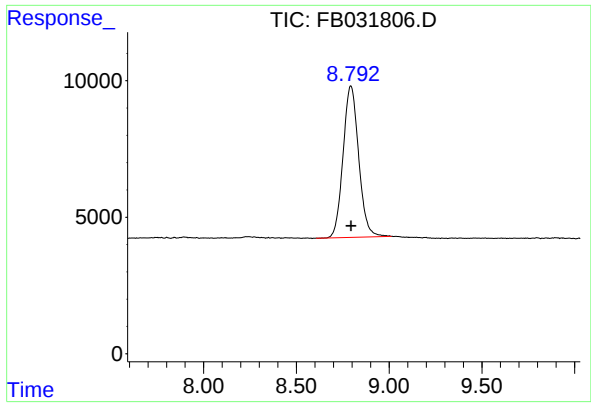
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031806.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 14:34
Operator : YP/AJ
Sample : Q2100-01
Misc : 5.77G/5.00 ML DI WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-16

Integration File: Calibration.e
Quant Time: May 22 01:49:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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.: -0.002 min
Response: 324621
Conc: 15.01 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-16

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
 Data File : FB031806.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 14:34
 Sample : Q2100-01
 Misc : 5.77G/5.00 ML DI WATER
 ALS Vial : 1 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.205	5.188	5.232	PV	7	67	0.02%	0.012%
2	5.563	5.555	5.591	VV	22	298	0.09%	0.054%
3	5.599	5.591	5.618	VV	27	189	0.06%	0.034%
4	5.626	5.618	5.633	VV	9	40	0.01%	0.007%
5	5.643	5.633	5.663	PV	25	248	0.07%	0.045%
6	5.670	5.663	5.701	VV	12	175	0.05%	0.031%
7	5.707	5.701	5.715	VV	20	137	0.04%	0.025%
8	5.732	5.715	5.737	VV	18	207	0.06%	0.037%
9	5.748	5.737	5.773	VV	21	314	0.09%	0.056%
10	5.781	5.773	5.792	VV	10	80	0.02%	0.014%
11	5.800	5.792	5.822	VV	12	133	0.04%	0.024%
12	5.836	5.822	5.845	VV	11	99	0.03%	0.018%
13	5.854	5.845	5.867	PV	10	91	0.03%	0.016%
14	5.875	5.867	5.886	VV	11	70	0.02%	0.013%
15	5.897	5.886	5.903	VV	11	65	0.02%	0.012%
16	5.914	5.903	5.928	VV	18	188	0.06%	0.034%
17	5.943	5.928	5.999	VV	23	401	0.12%	0.072%
18	6.007	5.999	6.018	VV	9	69	0.02%	0.012%
19	6.026	6.018	6.035	VV	9	81	0.02%	0.014%
20	6.045	6.035	6.074	VV	20	241	0.07%	0.043%
21	6.096	6.074	6.109	VV	35	340	0.10%	0.061%
22	6.124	6.109	6.154	VV	13	204	0.06%	0.037%
23	6.168	6.154	6.177	VV	12	85	0.02%	0.015%
24	6.199	6.177	6.213	PV	14	150	0.04%	0.027%
25	6.277	6.213	6.287	PV	23	491	0.14%	0.088%
26	6.301	6.287	6.312	VV	33	342	0.10%	0.062%
27	6.349	6.312	6.366	VV	51	1144	0.34%	0.206%
28	6.381	6.366	6.417	VV	55	1287	0.38%	0.232%
29	6.424	6.417	6.537	VB	34	716	0.21%	0.129%
30	6.647	6.591	6.661	BV	12	161	0.05%	0.029%
31	6.691	6.661	6.711	PV	12	182	0.05%	0.033%
32	6.729	6.711	6.762	PV	13	280	0.08%	0.050%
33	6.775	6.762	6.806	VV	19	328	0.10%	0.059%
34	6.897	6.806	6.926	VV	35	1326	0.39%	0.239%
35	6.962	6.926	6.985	VV	19	497	0.15%	0.089%
36	7.051	6.985	7.080	PV	46	1714	0.50%	0.308%

					rteres			
37	7.098	7.080	7.200	VV	53	2258	0.66%	0.406%
38	7.220	7.200	7.264	VV	27	602	0.18%	0.108%
39	7.404	7.264	7.435	VV	32	1969	0.58%	0.354%
40	7.443	7.435	7.496	VV	28	696	0.20%	0.125%
41	7.531	7.496	7.592	VV	20	667	0.20%	0.120%
42	7.744	7.592	7.791	VV	33	2048	0.60%	0.369%
43	7.803	7.791	7.824	VV	40	377	0.11%	0.068%
44	7.843	7.824	7.858	VV	38	416	0.12%	0.075%
45	7.895	7.858	7.978	VV	55	2067	0.61%	0.372%
46	7.997	7.978	8.053	VV	20	621	0.18%	0.112%
47	8.116	8.053	8.142	VV	31	911	0.27%	0.164%
48	8.242	8.142	8.335	VV	68	4410	1.29%	0.793%
49	8.350	8.335	8.388	VV	38	761	0.22%	0.137%
50	8.405	8.388	8.421	VV	26	369	0.11%	0.066%
51	8.443	8.421	8.464	VV	27	535	0.16%	0.096%
52	8.509	8.464	8.531	VV	17	648	0.19%	0.117%
53	8.560	8.531	8.586	VV	20	425	0.12%	0.076%
54	8.794	8.586	9.180	VV	5594	341283	100.00%	61.401%
55	9.196	9.180	9.317	VV	42	1702	0.50%	0.306%
56	9.357	9.317	9.411	VV	28	998	0.29%	0.180%
57	9.462	9.411	9.496	VV	23	874	0.26%	0.157%
58	9.519	9.496	9.564	VV	29	684	0.20%	0.123%
59	9.604	9.564	9.664	VV	26	934	0.27%	0.168%
60	9.676	9.664	9.699	VV	22	376	0.11%	0.068%
61	9.713	9.699	9.731	VV	23	348	0.10%	0.063%
62	9.744	9.731	9.761	VV	28	316	0.09%	0.057%
63	9.797	9.761	9.834	VV	37	943	0.28%	0.170%
64	9.847	9.834	9.867	VV	27	447	0.13%	0.081%
65	9.896	9.867	9.952	VV	40	1328	0.39%	0.239%
66	9.971	9.952	10.008	VV	24	487	0.14%	0.088%
67	10.087	10.008	10.115	PV	33	1195	0.35%	0.215%
68	10.130	10.115	10.146	VV	35	411	0.12%	0.074%
69	10.168	10.146	10.225	VV	33	1035	0.30%	0.186%
70	10.346	10.225	10.425	VV	74	5710	1.67%	1.027%
71	10.447	10.425	10.466	VV	56	1238	0.36%	0.223%
72	10.483	10.466	10.527	VV	69	2077	0.61%	0.374%
73	10.545	10.527	10.558	VV	80	1040	0.30%	0.187%
74	10.625	10.558	10.751	VV	172	10708	3.14%	1.927%
75	10.831	10.751	10.877	VV	49	2952	0.86%	0.531%
76	10.898	10.877	10.981	VV	35	1476	0.43%	0.266%
77	11.029	10.981	11.065	VV	33	1181	0.35%	0.212%
78	11.077	11.065	11.097	VV	36	430	0.13%	0.077%
79	11.125	11.097	11.162	VV	27	793	0.23%	0.143%
80	11.197	11.162	11.226	VV	38	1090	0.32%	0.196%
81	11.238	11.226	11.256	VV	39	492	0.14%	0.089%
82	11.293	11.256	11.331	VV	42	1104	0.32%	0.199%
83	11.348	11.331	11.364	VV	39	344	0.10%	0.062%
84	11.396	11.364	11.469	PV	32	1366	0.40%	0.246%
85	11.518	11.469	11.579	VV	36	2046	0.60%	0.368%
86	11.598	11.579	11.658	VV	43	1391	0.41%	0.250%
87	11.698	11.658	11.749	VV	38	1286	0.38%	0.231%
88	11.788	11.749	11.804	VV	29	774	0.23%	0.139%
89	11.869	11.804	11.886	VV	52	1789	0.52%	0.322%

					rteres			
90	11.906	11.886	11.979	VV	54	1786	0.52%	0.321%
91	12.026	11.979	12.062	VV	43	1189	0.35%	0.214%
92	12.102	12.062	12.138	VV	43	1083	0.32%	0.195%
93	12.157	12.138	12.196	VV	36	715	0.21%	0.129%
94	12.211	12.196	12.251	VV	40	665	0.19%	0.120%
95	12.276	12.251	12.303	VV	21	420	0.12%	0.076%
96	12.325	12.303	12.343	VV	21	426	0.12%	0.077%
97	12.411	12.343	12.438	VV	24	1029	0.30%	0.185%
98	12.496	12.438	12.512	VV	22	743	0.22%	0.134%
99	12.586	12.512	12.620	VV	31	1353	0.40%	0.243%
100	12.633	12.620	12.676	VV	22	619	0.18%	0.111%
101	12.705	12.676	12.722	VV	33	719	0.21%	0.129%
102	12.751	12.722	12.816	VV	47	1806	0.53%	0.325%
103	12.848	12.816	12.862	VV	32	724	0.21%	0.130%
104	12.932	12.862	12.971	VV	51	2052	0.60%	0.369%
105	13.043	12.971	13.110	VV	106	5775	1.69%	1.039%
106	13.188	13.110	13.286	VV	233	13593	3.98%	2.446%
107	13.299	13.286	13.327	VV	46	792	0.23%	0.143%
108	13.353	13.327	13.399	VV	34	921	0.27%	0.166%
109	13.408	13.399	13.443	VV	28	496	0.15%	0.089%
110	13.478	13.443	13.493	VV	27	574	0.17%	0.103%
111	13.508	13.493	13.527	VV	26	398	0.12%	0.072%
112	13.554	13.527	13.600	VV	33	1038	0.30%	0.187%
113	13.611	13.600	13.653	VV	26	568	0.17%	0.102%
114	13.675	13.653	13.705	VV	26	541	0.16%	0.097%
115	13.722	13.705	13.755	VV	20	489	0.14%	0.088%
116	13.774	13.755	13.790	VV	20	357	0.10%	0.064%
117	13.917	13.790	14.026	VV	237	14995	4.39%	2.698%
118	14.121	14.026	14.298	VV	154	14038	4.11%	2.526%
119	14.366	14.298	14.515	VV	37	3032	0.89%	0.545%
120	14.532	14.515	14.599	VV	26	1029	0.30%	0.185%
121	14.634	14.599	14.666	VV	29	762	0.22%	0.137%
122	14.698	14.666	14.720	VV	31	562	0.16%	0.101%
123	14.769	14.720	14.817	PV	30	985	0.29%	0.177%
124	14.838	14.817	14.854	VV	20	376	0.11%	0.068%
125	14.897	14.854	14.922	VV	22	764	0.22%	0.137%
126	14.950	14.922	14.965	VV	34	604	0.18%	0.109%
127	15.062	14.965	15.178	VV	65	4839	1.42%	0.871%
128	15.226	15.178	15.242	VV	37	1089	0.32%	0.196%
129	15.400	15.242	15.465	VV	82	5798	1.70%	1.043%
130	15.499	15.465	15.515	VV	69	1647	0.48%	0.296%
131	15.535	15.515	15.562	VV	61	1360	0.40%	0.245%
132	15.680	15.562	15.765	VV	63	6320	1.85%	1.137%
133	15.780	15.765	15.832	VV	62	1573	0.46%	0.283%
134	15.843	15.832	15.875	VV	45	673	0.20%	0.121%
135	15.892	15.875	15.910	VV	47	493	0.14%	0.089%
136	15.934	15.910	15.999	VV	34	1138	0.33%	0.205%
137	16.013	15.999	16.035	VV	37	417	0.12%	0.075%
138	16.081	16.035	16.107	VV	29	744	0.22%	0.134%
139	16.197	16.107	16.341	VV	394	18954	5.55%	3.410%
140	16.379	16.341	16.412	VV	40	1060	0.31%	0.191%
141	16.477	16.412	16.511	VV	32	1142	0.33%	0.205%

					rteres			
142	16.544	16.511	16.571	VV	26	537	0.16%	0.097%
143	16.658	16.571	16.697	VV	33	1636	0.48%	0.294%
144	16.733	16.697	16.773	VV	33	1058	0.31%	0.190%
145	16.803	16.773	16.861	VV	26	958	0.28%	0.172%
146	16.883	16.861	16.994	VV	30	1324	0.39%	0.238%
147	17.042	16.994	17.059	PV	13	180	0.05%	0.032%
				Sum of corrected areas:		555827		

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	84
Sample Wt/Vol:	5.43	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
FB031807.D	1	05/21/25 15:01	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	14.0	J	9.00	49.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.1		50 - 150	81%	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\FB052125\
Data File : FB031807.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:01
Operator : YP/AJ
Sample : Q2100-02
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-22

Integration File: Calibration.e
Quant Time: May 22 01:49:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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	8.796	349302	16.154 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

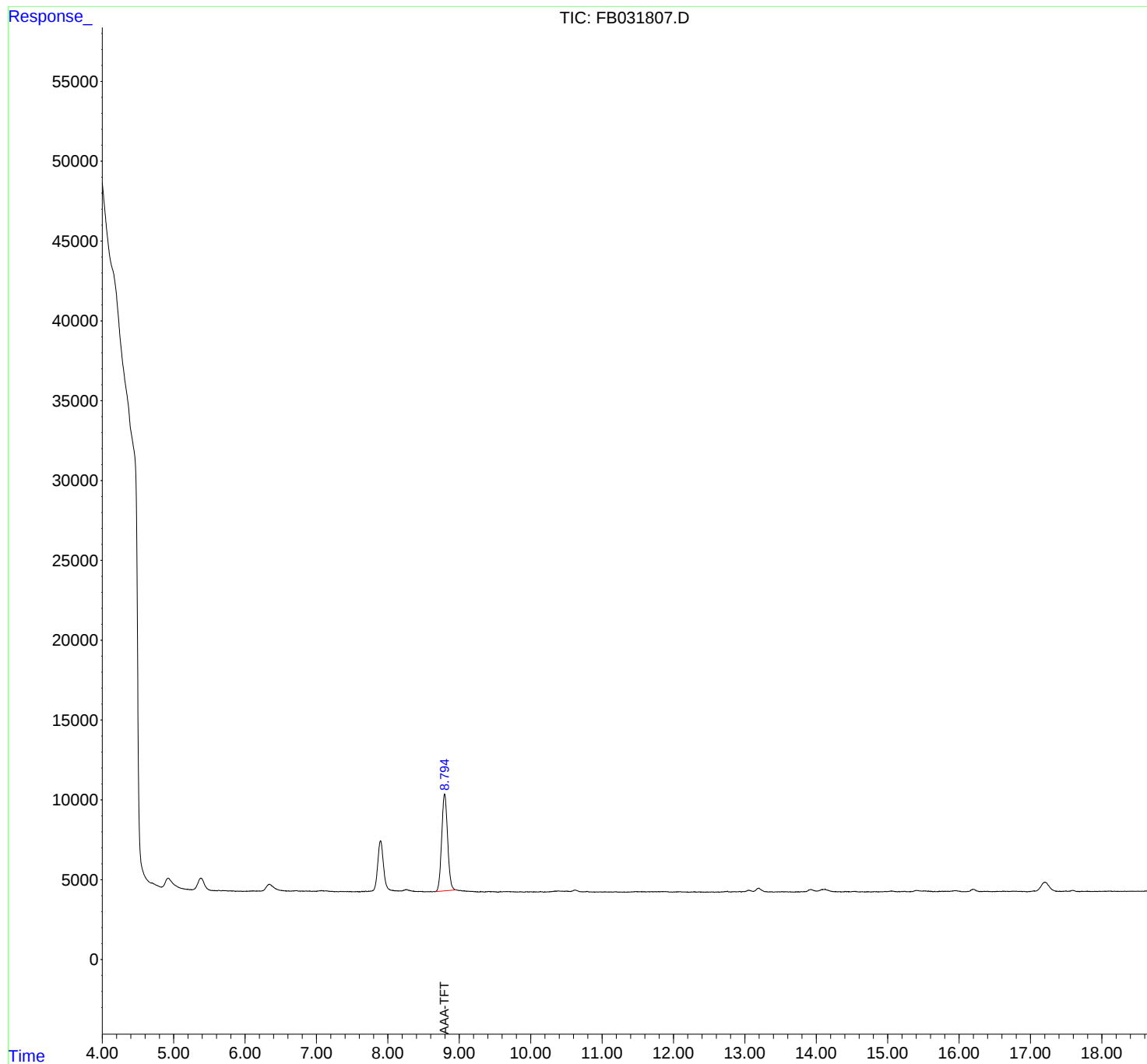
(m)=manual int.

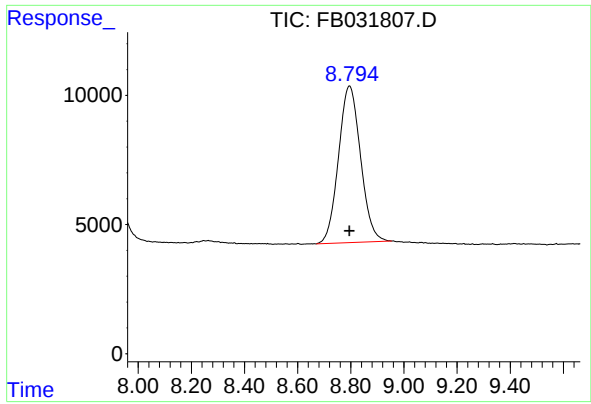
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031807.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:01
Operator : YP/AJ
Sample : Q2100-02
Misc : 5.43G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-22

Integration File: Calibration.e
Quant Time: May 22 01:49:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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.: 8.796 min
Delta R.T.: 0.000 min
Response: 349302
Conc: 16.15 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-22

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
 Data File : FB031807.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 15:01
 Sample : Q2100-02
 Misc : 5.43G/5.00 ML DI WATER
 ALS Vial : 2 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.243	5.239	5.258	VV	15	74	0.02%	0.009%
2	5.550	5.541	5.583	VV	16	170	0.05%	0.020%
3	5.594	5.583	5.613	PV	16	119	0.03%	0.014%
4	5.632	5.613	5.667	VV	35	610	0.17%	0.073%
5	5.695	5.667	5.711	VV	31	610	0.17%	0.073%
6	5.721	5.711	5.771	VV	27	763	0.21%	0.092%
7	5.799	5.771	5.823	VV	30	652	0.18%	0.078%
8	5.832	5.823	5.870	VV	33	535	0.15%	0.064%
9	5.894	5.870	5.921	PV	30	461	0.13%	0.055%
10	5.934	5.921	5.971	VV	23	445	0.12%	0.053%
11	6.020	5.971	6.040	PV	24	611	0.17%	0.073%
12	6.129	6.040	6.195	VV	43	2901	0.79%	0.348%
13	6.204	6.195	6.221	VV	40	516	0.14%	0.062%
14	6.343	6.221	6.522	VV	463	38616	10.51%	4.628%
15	6.527	6.522	6.587	VV	79	2045	0.56%	0.245%
16	6.606	6.587	6.617	VV	55	786	0.21%	0.094%
17	6.627	6.617	6.653	VV	40	792	0.22%	0.095%
18	6.711	6.653	6.719	VV	64	2071	0.56%	0.248%
19	6.728	6.719	6.753	VV	67	1057	0.29%	0.127%
20	6.764	6.753	6.772	VV	45	454	0.12%	0.054%
21	6.792	6.772	6.806	VV	47	794	0.22%	0.095%
22	6.811	6.806	6.830	VV	52	550	0.15%	0.066%
23	6.847	6.830	6.950	VV	49	2707	0.74%	0.324%
24	6.969	6.950	6.980	VV	42	622	0.17%	0.075%
25	6.992	6.980	7.005	VV	42	474	0.13%	0.057%
26	7.049	7.005	7.056	VV	68	1582	0.43%	0.190%
27	7.070	7.056	7.082	VV	84	1090	0.30%	0.131%
28	7.091	7.082	7.107	VV	67	923	0.25%	0.111%
29	7.129	7.107	7.169	VV	64	1991	0.54%	0.239%
30	7.179	7.169	7.191	VV	47	486	0.13%	0.058%
31	7.202	7.191	7.212	VV	30	343	0.09%	0.041%
32	7.221	7.212	7.246	VV	32	477	0.13%	0.057%
33	7.253	7.246	7.264	VV	19	146	0.04%	0.018%
34	7.284	7.264	7.309	VV	25	359	0.10%	0.043%
35	7.347	7.309	7.364	VV	31	646	0.18%	0.077%
36	7.375	7.364	7.391	VV	31	325	0.09%	0.039%

					rteres			
37	7.404	7.391	7.421	VV	26	329	0.09%	0.039%
38	7.433	7.421	7.452	VV	29	363	0.10%	0.043%
39	7.460	7.452	7.471	VV	23	192	0.05%	0.023%
40	7.480	7.471	7.491	VV	33	245	0.07%	0.029%
41	7.551	7.491	7.613	PV	27	938	0.26%	0.112%
42	7.636	7.613	7.653	VV	40	535	0.15%	0.064%
43	7.668	7.653	7.677	VV	46	404	0.11%	0.048%
44	7.691	7.677	7.710	VV	62	741	0.20%	0.089%
45	7.731	7.710	7.744	VV	58	784	0.21%	0.094%
46	7.898	7.744	8.116	VV	3207	189226	51.51%	22.680%
47	8.125	8.116	8.145	VV	82	1306	0.36%	0.157%
48	8.176	8.145	8.189	VV	77	1824	0.50%	0.219%
49	8.221	8.189	8.231	VV	114	2200	0.60%	0.264%
50	8.247	8.231	8.255	VV	155	1946	0.53%	0.233%
51	8.264	8.255	8.342	VV	161	5615	1.53%	0.673%
52	8.350	8.342	8.356	VV	64	487	0.13%	0.058%
53	8.362	8.356	8.373	VV	71	550	0.15%	0.066%
54	8.388	8.373	8.400	VV	45	642	0.17%	0.077%
55	8.408	8.400	8.448	VV	40	1023	0.28%	0.123%
56	8.457	8.448	8.520	VV	40	1267	0.34%	0.152%
57	8.528	8.520	8.545	VV	29	335	0.09%	0.040%
58	8.557	8.545	8.570	VV	32	370	0.10%	0.044%
59	8.581	8.570	8.595	VV	29	368	0.10%	0.044%
60	8.603	8.595	8.616	VV	46	365	0.10%	0.044%
61	8.647	8.616	8.670	VV	32	894	0.24%	0.107%
62	8.796	8.670	9.001	VV	6147	367392	100.00%	44.035%
63	9.021	9.001	9.054	VV	110	2931	0.80%	0.351%
64	9.064	9.054	9.116	VV	86	2700	0.73%	0.324%
65	9.127	9.116	9.141	VV	66	874	0.24%	0.105%
66	9.149	9.141	9.183	VV	61	1270	0.35%	0.152%
67	9.193	9.183	9.206	VV	53	606	0.16%	0.073%
68	9.225	9.206	9.250	VV	48	792	0.22%	0.095%
69	9.258	9.250	9.267	VV	38	260	0.07%	0.031%
70	9.272	9.267	9.280	VV	18	110	0.03%	0.013%
71	9.335	9.280	9.352	VV	45	1136	0.31%	0.136%
72	9.416	9.352	9.444	VV	53	1865	0.51%	0.224%
73	9.451	9.444	9.500	VV	47	1132	0.31%	0.136%
74	9.511	9.500	9.539	VV	33	518	0.14%	0.062%
75	9.553	9.539	9.560	PV	24	203	0.06%	0.024%
76	9.574	9.560	9.583	VV	52	397	0.11%	0.048%
77	9.593	9.583	9.604	VV	30	331	0.09%	0.040%
78	9.636	9.604	9.644	VV	44	879	0.24%	0.105%
79	9.652	9.644	9.659	VV	40	321	0.09%	0.038%
80	9.667	9.659	9.684	VV	44	598	0.16%	0.072%
81	9.691	9.684	9.727	VV	43	935	0.25%	0.112%
82	9.746	9.727	9.774	VV	34	771	0.21%	0.092%
83	9.784	9.774	9.793	VV	32	273	0.07%	0.033%
84	9.858	9.793	9.876	VV	41	1174	0.32%	0.141%
85	9.887	9.876	9.917	VV	26	399	0.11%	0.048%
86	9.936	9.917	9.981	VV	34	915	0.25%	0.110%
87	10.006	9.981	10.031	VV	34	733	0.20%	0.088%
88	10.041	10.031	10.068	VV	32	493	0.13%	0.059%
89	10.077	10.068	10.093	VV	27	289	0.08%	0.035%

					rteres			
90	10.106	10.093	10.116	VV	27	283	0.08%	0.034%
91	10.136	10.116	10.153	VV	45	659	0.18%	0.079%
92	10.165	10.153	10.185	VV	33	374	0.10%	0.045%
93	10.202	10.185	10.214	VV	35	329	0.09%	0.039%
94	10.236	10.214	10.249	VV	30	443	0.12%	0.053%
95	10.322	10.249	10.330	VV	63	1967	0.54%	0.236%
96	10.343	10.330	10.363	VV	87	1338	0.36%	0.160%
97	10.385	10.363	10.427	VV	81	2813	0.77%	0.337%
98	10.445	10.427	10.471	VV	71	1714	0.47%	0.205%
99	10.505	10.471	10.562	VV	72	3205	0.87%	0.384%
100	10.611	10.562	10.747	VV	137	8129	2.21%	0.974%
101	10.753	10.747	10.761	VV	35	265	0.07%	0.032%
102	10.796	10.761	10.822	VV	59	1252	0.34%	0.150%
103	10.834	10.822	10.841	VV	26	242	0.07%	0.029%
104	10.849	10.841	10.864	VV	26	259	0.07%	0.031%
105	10.881	10.864	10.900	VV	21	322	0.09%	0.039%
106	10.925	10.900	10.942	VV	26	425	0.12%	0.051%
107	10.980	10.942	11.019	VV	26	817	0.22%	0.098%
108	11.037	11.019	11.045	VV	32	339	0.09%	0.041%
109	11.053	11.045	11.066	VV	29	270	0.07%	0.032%
110	11.076	11.066	11.087	VV	19	196	0.05%	0.023%
111	11.098	11.087	11.111	VV	23	247	0.07%	0.030%
112	11.126	11.111	11.145	VV	26	317	0.09%	0.038%
113	11.182	11.145	11.228	VV	33	949	0.26%	0.114%
114	11.237	11.228	11.251	VV	17	163	0.04%	0.020%
115	11.263	11.251	11.289	VV	19	274	0.07%	0.033%
116	11.313	11.289	11.332	VV	23	298	0.08%	0.036%
117	11.343	11.332	11.350	VV	12	101	0.03%	0.012%
118	11.363	11.350	11.371	VV	16	162	0.04%	0.019%
119	11.395	11.371	11.403	VV	18	268	0.07%	0.032%
120	11.418	11.403	11.433	VV	30	410	0.11%	0.049%
121	11.487	11.433	11.524	VV	50	1804	0.49%	0.216%
122	11.536	11.524	11.545	VV	36	424	0.12%	0.051%
123	11.554	11.545	11.567	VV	43	401	0.11%	0.048%
124	11.594	11.567	11.615	VV	40	821	0.22%	0.098%
125	11.629	11.615	11.637	VV	33	333	0.09%	0.040%
126	11.651	11.637	11.665	VV	43	524	0.14%	0.063%
127	11.674	11.665	11.682	VV	36	313	0.09%	0.038%
128	11.697	11.682	11.708	VV	40	534	0.15%	0.064%
129	11.748	11.708	11.769	VV	41	1145	0.31%	0.137%
130	11.796	11.769	11.809	VV	41	773	0.21%	0.093%
131	11.828	11.809	11.838	VV	45	624	0.17%	0.075%
132	11.853	11.838	11.873	VV	45	778	0.21%	0.093%
133	11.885	11.873	11.951	VV	48	1462	0.40%	0.175%
134	11.966	11.951	11.988	VV	19	292	0.08%	0.035%
135	12.009	11.988	12.038	VV	24	526	0.14%	0.063%
136	12.099	12.038	12.115	VV	43	1292	0.35%	0.155%
137	12.124	12.115	12.178	VV	24	666	0.18%	0.080%
138	12.188	12.178	12.212	VV	24	223	0.06%	0.027%
139	12.250	12.212	12.272	PV	23	444	0.12%	0.053%
140	12.294	12.272	12.319	VV	35	609	0.17%	0.073%
141	12.361	12.319	12.383	VV	31	642	0.17%	0.077%

					rteres			
142	12.391	12.383	12.417	VV	16	263	0.07%	0.032%
143	12.425	12.417	12.456	VV	15	238	0.06%	0.029%
144	12.473	12.456	12.488	VV	22	222	0.06%	0.027%
145	12.507	12.488	12.518	VV	20	229	0.06%	0.027%
146	12.537	12.518	12.546	VV	23	279	0.08%	0.033%
147	12.556	12.546	12.581	VV	24	235	0.06%	0.028%
148	12.590	12.581	12.647	PV	17	474	0.13%	0.057%
149	12.678	12.647	12.688	VV	24	400	0.11%	0.048%
150	12.728	12.688	12.737	VV	50	934	0.25%	0.112%
151	12.757	12.737	12.777	VV	62	995	0.27%	0.119%
152	12.788	12.777	12.806	VV	32	384	0.10%	0.046%
153	12.861	12.806	12.885	VV	39	1297	0.35%	0.155%
154	12.924	12.885	12.950	VV	53	1267	0.34%	0.152%
155	12.987	12.950	12.997	VV	43	952	0.26%	0.114%
156	13.059	12.997	13.124	VV	130	6142	1.67%	0.736%
157	13.199	13.124	13.288	VV	249	13439	3.66%	1.611%
158	13.294	13.288	13.341	VV	40	783	0.21%	0.094%
159	13.352	13.341	13.366	VV	31	325	0.09%	0.039%
160	13.380	13.366	13.406	VV	31	410	0.11%	0.049%
161	13.437	13.406	13.464	VV	21	565	0.15%	0.068%
162	13.475	13.464	13.492	VV	28	336	0.09%	0.040%
163	13.521	13.492	13.562	VV	36	1007	0.27%	0.121%
164	13.572	13.562	13.622	VV	35	792	0.22%	0.095%
165	13.634	13.622	13.644	VV	31	279	0.08%	0.033%
166	13.666	13.644	13.675	VV	21	223	0.06%	0.027%
167	13.683	13.675	13.700	VV	16	118	0.03%	0.014%
168	13.730	13.700	13.744	VV	23	407	0.11%	0.049%
169	13.753	13.744	13.772	VV	32	309	0.08%	0.037%
170	13.791	13.772	13.801	VV	36	459	0.12%	0.055%
171	13.920	13.801	14.010	VV	169	10684	2.91%	1.281%
172	14.090	14.010	14.117	VV	174	7964	2.17%	0.955%
173	14.126	14.117	14.233	VV	183	7031	1.91%	0.843%
174	14.243	14.233	14.283	VV	41	871	0.24%	0.104%
175	14.299	14.283	14.307	VV	27	317	0.09%	0.038%
176	14.326	14.307	14.359	VV	30	597	0.16%	0.072%
177	14.378	14.359	14.388	VV	24	307	0.08%	0.037%
178	14.418	14.388	14.429	VV	40	720	0.20%	0.086%
179	14.443	14.429	14.453	VV	35	359	0.10%	0.043%
180	14.463	14.453	14.485	VV	26	374	0.10%	0.045%
181	14.530	14.485	14.593	VV	44	1892	0.52%	0.227%
182	14.606	14.593	14.615	VV	15	149	0.04%	0.018%
183	14.628	14.615	14.639	VV	23	237	0.06%	0.028%
184	14.650	14.639	14.666	VV	25	261	0.07%	0.031%
185	14.673	14.666	14.692	VV	14	139	0.04%	0.017%
186	14.708	14.692	14.732	VV	21	361	0.10%	0.043%
187	14.746	14.732	14.763	VV	21	249	0.07%	0.030%
188	14.786	14.763	14.794	PV	21	192	0.05%	0.023%
189	14.812	14.794	14.836	VV	29	556	0.15%	0.067%
190	14.845	14.836	14.858	VV	32	256	0.07%	0.031%
191	14.868	14.858	14.878	VV	16	160	0.04%	0.019%
192	14.896	14.878	14.905	VV	22	271	0.07%	0.033%
193	14.961	14.905	14.991	VV	43	1210	0.33%	0.145%
194	15.052	14.991	15.149	VV	73	3679	1.00%	0.441%

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195	15.159	15.149	15.172	VV	45	349	0.10%	0.042%	
196	15.201	15.172	15.216	VV	42	739	0.20%	0.089%	
197	15.235	15.216	15.262	VV	47	955	0.26%	0.114%	
198	15.282	15.262	15.297	VV	28	426	0.12%	0.051%	
199	15.320	15.297	15.328	VV	36	442	0.12%	0.053%	
200	15.337	15.328	15.346	VV	41	294	0.08%	0.035%	
201	15.403	15.346	15.474	VV	98	5540	1.51%	0.664%	
202	15.500	15.474	15.529	VV	69	2032	0.55%	0.244%	
203	15.532	15.529	15.563	VV	71	1200	0.33%	0.144%	
204	15.573	15.563	15.586	VV	73	711	0.19%	0.085%	
205	15.596	15.586	15.606	VV	52	497	0.14%	0.060%	
206	15.617	15.606	15.637	VV	44	604	0.16%	0.072%	
207	15.659	15.637	15.672	VV	42	557	0.15%	0.067%	
208	15.724	15.672	15.737	VV	62	1128	0.31%	0.135%	
209	15.769	15.737	15.785	VV	53	1165	0.32%	0.140%	
210	15.800	15.785	15.836	VV	58	1214	0.33%	0.146%	
211	15.846	15.836	15.867	VV	49	719	0.20%	0.086%	
212	15.879	15.867	15.892	VV	51	676	0.18%	0.081%	
213	15.950	15.892	15.963	VV	84	2976	0.81%	0.357%	
214	15.968	15.963	15.985	VV	77	876	0.24%	0.105%	
215	15.993	15.985	16.060	VV	63	1514	0.41%	0.181%	
216	16.079	16.060	16.091	VV	26	356	0.10%	0.043%	
217	16.125	16.091	16.137	VV	41	724	0.20%	0.087%	
218	16.203	16.137	16.285	VV	171	8538	2.32%	1.023%	
219	16.311	16.285	16.319	VV	37	572	0.16%	0.069%	
220	16.362	16.319	16.369	VV	38	918	0.25%	0.110%	
221	16.378	16.369	16.394	VV	36	486	0.13%	0.058%	
222	16.403	16.394	16.412	VV	46	390	0.11%	0.047%	
223	16.419	16.412	16.445	VV	35	493	0.13%	0.059%	
224	16.453	16.445	16.460	VV	20	166	0.05%	0.020%	
225	16.480	16.460	16.501	VV	29	524	0.14%	0.063%	
226	16.530	16.501	16.553	VV	45	856	0.23%	0.103%	
227	16.569	16.553	16.595	VV	36	761	0.21%	0.091%	
228	16.609	16.595	16.622	VV	50	591	0.16%	0.071%	
229	16.636	16.622	16.653	VV	48	715	0.19%	0.086%	
230	16.674	16.653	16.702	VV	37	937	0.26%	0.112%	
231	16.715	16.702	16.723	VV	32	343	0.09%	0.041%	
232	16.775	16.723	16.792	VV	47	1626	0.44%	0.195%	
233	16.804	16.792	16.832	VV	50	879	0.24%	0.105%	
234	16.851	16.832	16.864	VV	34	600	0.16%	0.072%	
235	16.875	16.864	16.885	VV	41	373	0.10%	0.045%	
236	16.908	16.885	16.956	VV	37	895	0.24%	0.107%	
237	16.968	16.956	16.979	PV	14	117	0.03%	0.014%	
238	17.058	16.979	17.076	VV	21	733	0.20%	0.088%	
				Sum of corrected areas:		834312			

FB051925.M Thu May 22 02:51:54 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	78.2
Sample Wt/Vol:	4.28	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Test:	Gasoline Range Organics
Prep Method :		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031808.D	1	05/21/25 15:29	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	12.0	U	12.0	67.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.6		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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031808.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:29
Operator : YP/AJ
Sample : Q2100-03
Misc : 4.28G/5.00 ML DI WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-21

Integration File: Calibration.e
Quant Time: May 22 01:49:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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	423443	19.582 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

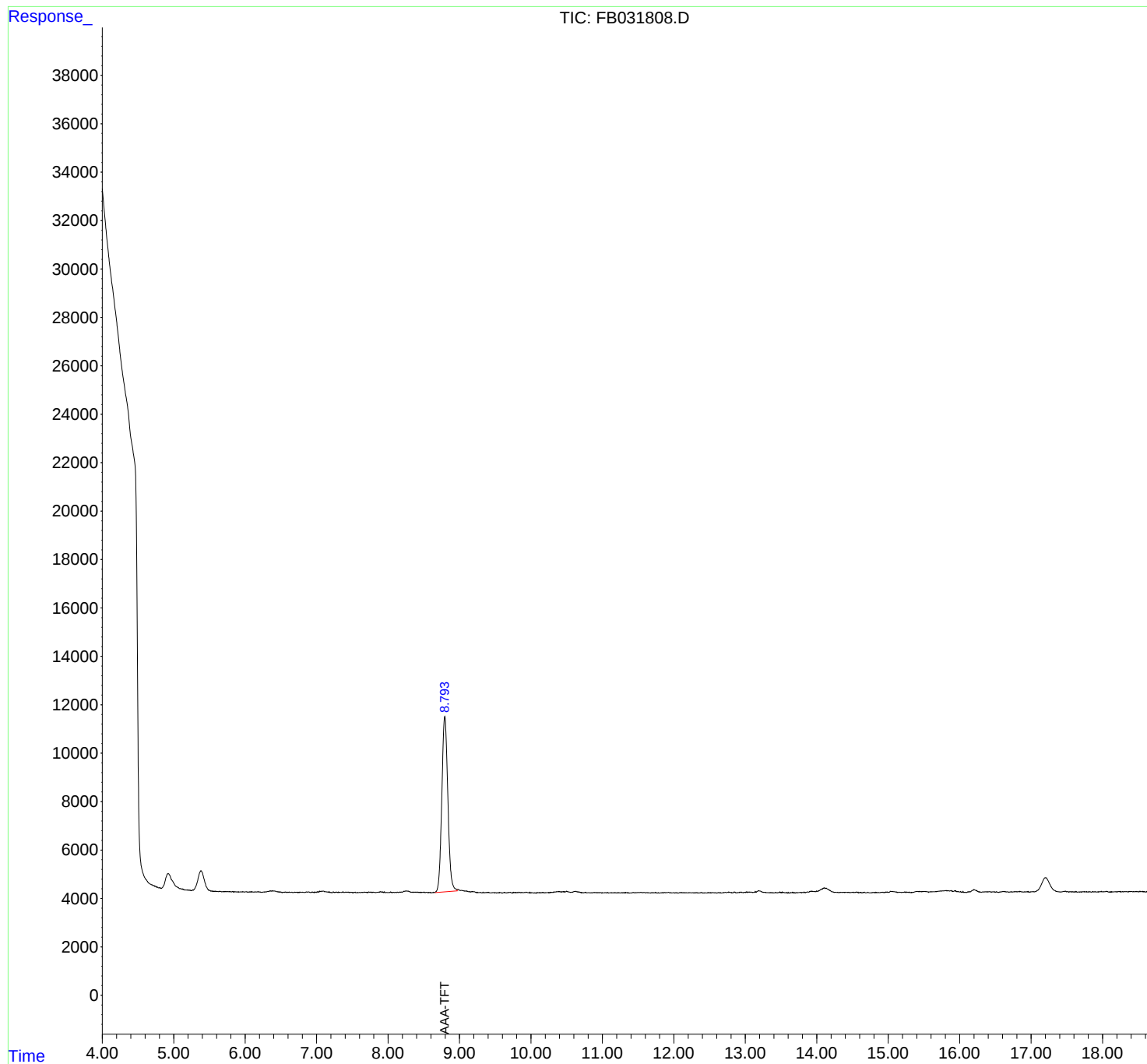
(m)=manual int.

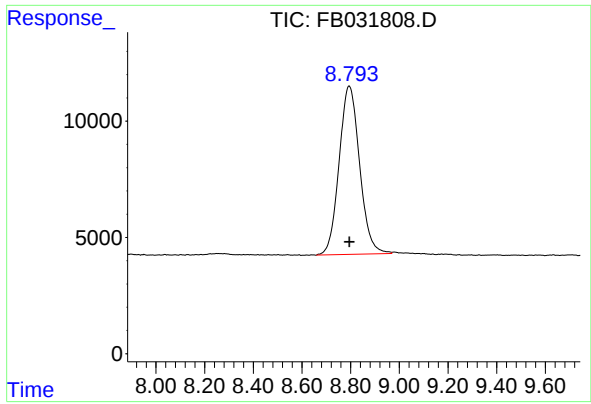
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031808.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:29
Operator : YP/AJ
Sample : Q2100-03
Misc : 4.28G/5.00 ML DI WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-21

Integration File: Calibration.e
Quant Time: May 22 01:49:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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.: -0.001 min
Response: 423443
Conc: 19.58 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-21

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
 Data File : FB031808.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 15:29
 Sample : Q2100-03
 Misc : 4.28G/5.00 ML DI WATER
 ALS Vial : 3 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.803	4.791	4.827	PV	15	151	0.03%	0.024%
2	5.227	5.219	5.247	VV	22	202	0.05%	0.032%
3	5.539	5.521	5.598	VV	26	579	0.13%	0.090%
4	5.612	5.598	5.628	VV	16	170	0.04%	0.027%
5	5.640	5.628	5.670	PV	18	356	0.08%	0.056%
6	5.688	5.670	5.696	PV	14	81	0.02%	0.013%
7	5.726	5.696	5.734	VV	19	259	0.06%	0.040%
8	5.745	5.734	5.753	VV	17	151	0.03%	0.024%
9	5.760	5.753	5.814	VV	18	451	0.10%	0.070%
10	5.826	5.814	5.839	VV	29	252	0.06%	0.039%
11	5.849	5.839	5.859	PV	25	148	0.03%	0.023%
12	5.867	5.859	5.937	VV	19	499	0.12%	0.078%
13	5.946	5.937	5.959	VV	19	177	0.04%	0.028%
14	5.968	5.959	5.998	VV	30	337	0.08%	0.053%
15	6.012	5.998	6.035	VV	24	381	0.09%	0.060%
16	6.060	6.035	6.068	VV	21	229	0.05%	0.036%
17	6.082	6.068	6.116	VV	25	504	0.12%	0.079%
18	6.124	6.116	6.129	VV	15	102	0.02%	0.016%
19	6.183	6.129	6.203	VV	33	925	0.21%	0.145%
20	6.210	6.203	6.228	VV	22	206	0.05%	0.032%
21	6.275	6.228	6.294	VV	29	728	0.17%	0.114%
22	6.319	6.294	6.330	VV	50	886	0.20%	0.138%
23	6.356	6.330	6.374	VV	67	1639	0.38%	0.256%
24	6.388	6.374	6.400	VV	79	1062	0.25%	0.166%
25	6.409	6.400	6.475	VV	68	2213	0.51%	0.346%
26	6.484	6.475	6.518	VV	35	617	0.14%	0.096%
27	6.541	6.518	6.549	PV	23	315	0.07%	0.049%
28	6.561	6.549	6.586	VV	31	494	0.11%	0.077%
29	6.595	6.586	6.603	VV	25	156	0.04%	0.024%
30	6.616	6.603	6.628	VV	31	323	0.07%	0.051%
31	6.654	6.628	6.678	VV	25	446	0.10%	0.070%
32	6.694	6.678	6.719	VV	25	449	0.10%	0.070%
33	6.728	6.719	6.743	VV	27	266	0.06%	0.042%
34	6.751	6.743	6.758	VV	20	123	0.03%	0.019%
35	6.766	6.758	6.776	VV	30	258	0.06%	0.040%
36	6.783	6.776	6.793	VV	26	212	0.05%	0.033%

					nteres			
37	6.806	6.793	6.841	VV	27	504	0.12%	0.079%
38	6.859	6.841	6.870	VV	39	475	0.11%	0.074%
39	6.893	6.870	6.918	VV	39	765	0.18%	0.120%
40	6.940	6.918	6.969	VV	36	620	0.14%	0.097%
41	7.011	6.969	7.022	VV	45	791	0.18%	0.124%
42	7.076	7.022	7.085	VV	71	2015	0.47%	0.315%
43	7.097	7.085	7.151	VV	71	1958	0.45%	0.306%
44	7.161	7.151	7.216	VV	45	882	0.20%	0.138%
45	7.235	7.216	7.249	VV	40	375	0.09%	0.059%
46	7.256	7.249	7.263	VV	27	165	0.04%	0.026%
47	7.275	7.263	7.304	VV	28	529	0.12%	0.083%
48	7.310	7.304	7.320	VV	32	219	0.05%	0.034%
49	7.336	7.320	7.351	VV	24	349	0.08%	0.055%
50	7.371	7.351	7.384	VV	42	514	0.12%	0.080%
51	7.411	7.384	7.428	VV	36	650	0.15%	0.102%
52	7.440	7.428	7.458	VV	33	422	0.10%	0.066%
53	7.490	7.458	7.506	VV	25	503	0.12%	0.079%
54	7.539	7.506	7.563	VV	29	464	0.11%	0.073%
55	7.599	7.563	7.619	VV	19	431	0.10%	0.067%
56	7.670	7.619	7.719	VV	34	1305	0.30%	0.204%
57	7.729	7.719	7.778	VV	41	1031	0.24%	0.161%
58	7.794	7.778	7.822	VV	32	635	0.15%	0.099%
59	7.852	7.822	7.862	VV	30	496	0.11%	0.077%
60	7.898	7.862	7.938	VV	54	1589	0.37%	0.248%
61	7.952	7.938	7.966	VV	44	423	0.10%	0.066%
62	7.985	7.966	7.997	VV	23	301	0.07%	0.047%
63	8.014	7.997	8.022	VV	25	262	0.06%	0.041%
64	8.037	8.022	8.068	VV	42	676	0.16%	0.106%
65	8.081	8.068	8.094	VV	29	319	0.07%	0.050%
66	8.103	8.094	8.119	VV	32	338	0.08%	0.053%
67	8.132	8.119	8.143	VV	34	357	0.08%	0.056%
68	8.165	8.143	8.176	VV	38	568	0.13%	0.089%
69	8.185	8.176	8.194	VV	40	354	0.08%	0.055%
70	8.250	8.194	8.339	VV	83	5097	1.18%	0.797%
71	8.343	8.339	8.351	VV	38	227	0.05%	0.036%
72	8.361	8.351	8.369	VV	40	331	0.08%	0.052%
73	8.391	8.369	8.410	VV	39	749	0.17%	0.117%
74	8.420	8.410	8.448	VV	40	632	0.15%	0.099%
75	8.463	8.448	8.477	VV	32	428	0.10%	0.067%
76	8.487	8.477	8.494	VV	29	265	0.06%	0.041%
77	8.503	8.494	8.520	VV	40	395	0.09%	0.062%
78	8.541	8.520	8.562	VV	34	554	0.13%	0.087%
79	8.589	8.562	8.610	VV	33	492	0.11%	0.077%
80	8.621	8.610	8.630	VV	22	192	0.04%	0.030%
81	8.640	8.630	8.659	VV	28	373	0.09%	0.058%
82	8.794	8.659	8.970	VV	7292	433336	100.00%	67.743%
83	8.979	8.970	9.018	VV	151	3721	0.86%	0.582%
84	9.028	9.018	9.066	VV	113	2909	0.67%	0.455%
85	9.073	9.066	9.091	VV	88	1299	0.30%	0.203%
86	9.100	9.091	9.130	VV	88	1689	0.39%	0.264%
87	9.138	9.130	9.152	VV	67	706	0.16%	0.110%
88	9.175	9.152	9.183	VV	66	999	0.23%	0.156%
89	9.191	9.183	9.205	VV	61	769	0.18%	0.120%

					rteres				
90	9.212	9.205	9.235	VV	57	721	0.17%	0.113%	
91	9.246	9.235	9.257	VV	39	370	0.09%	0.058%	
92	9.296	9.257	9.315	VV	30	719	0.17%	0.112%	
93	9.329	9.315	9.397	VV	31	1012	0.23%	0.158%	
94	9.405	9.397	9.436	VV	37	490	0.11%	0.077%	
95	9.476	9.436	9.522	VV	20	804	0.19%	0.126%	
96	9.576	9.522	9.600	VV	27	793	0.18%	0.124%	
97	9.633	9.600	9.661	VV	37	673	0.16%	0.105%	
98	9.709	9.661	9.738	VV	32	1034	0.24%	0.162%	
99	9.762	9.738	9.778	PV	37	480	0.11%	0.075%	
100	9.787	9.778	9.897	VV	30	1758	0.41%	0.275%	
101	9.934	9.897	9.991	VV	40	1408	0.32%	0.220%	
102	10.018	9.991	10.070	VV	19	628	0.14%	0.098%	
103	10.096	10.070	10.146	VV	26	821	0.19%	0.128%	
104	10.160	10.146	10.198	VV	26	657	0.15%	0.103%	
105	10.230	10.198	10.260	VV	25	774	0.18%	0.121%	
106	10.381	10.260	10.426	VV	72	4720	1.09%	0.738%	
107	10.499	10.426	10.556	VV	81	4433	1.02%	0.693%	
108	10.628	10.556	10.738	VV	78	4973	1.15%	0.777%	
109	10.767	10.738	10.785	VV	33	668	0.15%	0.104%	
110	10.806	10.785	10.831	VV	24	498	0.11%	0.078%	
111	10.903	10.831	11.030	VV	29	2321	0.54%	0.363%	
112	11.075	11.030	11.089	VV	31	629	0.15%	0.098%	
113	11.124	11.089	11.203	VV	23	1070	0.25%	0.167%	
114	11.230	11.203	11.251	VV	20	452	0.10%	0.071%	
115	11.314	11.251	11.382	VV	27	1343	0.31%	0.210%	
116	11.436	11.382	11.459	VV	32	796	0.18%	0.124%	
117	11.540	11.459	11.563	VV	39	1558	0.36%	0.244%	
118	11.584	11.563	11.607	VV	34	617	0.14%	0.096%	
119	11.622	11.607	11.679	VV	25	745	0.17%	0.116%	
120	11.742	11.679	11.770	VV	30	972	0.22%	0.152%	
121	11.784	11.770	11.802	VV	23	220	0.05%	0.034%	
122	11.841	11.802	11.860	VV	23	557	0.13%	0.087%	
123	11.926	11.860	11.988	VV	37	1677	0.39%	0.262%	
124	11.999	11.988	12.013	VV	22	249	0.06%	0.039%	
125	12.043	12.013	12.061	VV	28	420	0.10%	0.066%	
126	12.084	12.061	12.143	VV	28	941	0.22%	0.147%	
127	12.160	12.143	12.197	VV	25	589	0.14%	0.092%	
128	12.229	12.197	12.247	VV	23	579	0.13%	0.091%	
129	12.260	12.247	12.290	VV	23	427	0.10%	0.067%	
130	12.310	12.290	12.345	VV	26	567	0.13%	0.089%	
131	12.387	12.345	12.414	VV	30	658	0.15%	0.103%	
132	12.492	12.414	12.528	VV	35	1074	0.25%	0.168%	
133	12.542	12.528	12.574	VV	27	541	0.12%	0.085%	
134	12.589	12.574	12.606	VV	24	288	0.07%	0.045%	
135	12.622	12.606	12.665	VV	29	632	0.15%	0.099%	
136	12.721	12.665	12.742	VV	37	1101	0.25%	0.172%	
137	12.763	12.742	12.824	VV	47	1511	0.35%	0.236%	
138	12.847	12.824	12.875	VV	46	949	0.22%	0.148%	
139	12.928	12.875	12.973	VV	48	1710	0.39%	0.267%	
140	13.038	12.973	13.105	VV	56	3151	0.73%	0.493%	
141	13.188	13.105	13.359	VV	108	7321	1.69%	1.145%	

					rteres			
142	13.368	13.359	13.397	VV	28	447	0.10%	0.070%
143	13.426	13.397	13.454	VV	26	711	0.16%	0.111%
144	13.487	13.454	13.521	VV	47	1206	0.28%	0.189%
145	13.533	13.521	13.557	VV	42	596	0.14%	0.093%
146	13.572	13.557	13.589	VV	32	393	0.09%	0.062%
147	13.602	13.589	13.616	PV	31	244	0.06%	0.038%
148	13.658	13.616	13.703	VV	42	1022	0.24%	0.160%
149	13.768	13.703	13.811	VV	31	1525	0.35%	0.238%
150	13.823	13.811	13.842	VV	49	588	0.14%	0.092%
151	13.870	13.842	13.883	VV	55	963	0.22%	0.151%
152	13.923	13.883	13.989	VV	79	4227	0.98%	0.661%
153	14.106	13.989	14.251	VV	220	19409	4.48%	3.034%
154	14.266	14.251	14.303	VV	34	841	0.19%	0.131%
155	14.380	14.303	14.482	VV	35	2600	0.60%	0.406%
156	14.497	14.482	14.527	VV	34	673	0.16%	0.105%
157	14.556	14.527	14.590	VV	36	917	0.21%	0.143%
158	14.615	14.590	14.635	VV	32	418	0.10%	0.065%
159	14.669	14.635	14.686	VV	36	481	0.11%	0.075%
160	14.716	14.686	14.749	VV	24	406	0.09%	0.063%
161	14.780	14.749	14.838	VV	20	632	0.15%	0.099%
162	14.844	14.838	14.856	VV	21	149	0.03%	0.023%
163	14.927	14.856	14.958	VV	31	999	0.23%	0.156%
164	14.985	14.958	15.000	VV	41	723	0.17%	0.113%
165	15.033	15.000	15.136	VV	60	3360	0.78%	0.525%
166	15.153	15.136	15.202	VV	28	741	0.17%	0.116%
167	15.232	15.202	15.250	VV	39	657	0.15%	0.103%
168	15.264	15.250	15.281	VV	26	417	0.10%	0.065%
169	15.294	15.281	15.328	VV	31	449	0.10%	0.070%
170	15.412	15.328	15.429	VV	60	2214	0.51%	0.346%
171	15.445	15.429	15.467	VV	51	1101	0.25%	0.172%
172	15.508	15.467	15.565	VV	51	2608	0.60%	0.408%
173	15.811	15.565	15.863	VV	90	10191	2.35%	1.593%
174	15.880	15.863	15.910	VV	86	1915	0.44%	0.299%
175	15.933	15.910	16.000	VV	80	2694	0.62%	0.421%
176	16.013	16.000	16.028	VV	46	462	0.11%	0.072%
177	16.047	16.028	16.095	VV	40	584	0.13%	0.091%
178	16.205	16.095	16.305	PV	118	6578	1.52%	1.028%
179	16.418	16.305	16.453	VV	35	2175	0.50%	0.340%
180	16.486	16.453	16.548	VV	32	1060	0.24%	0.166%
181	16.614	16.548	16.689	PV	38	1944	0.45%	0.304%
182	16.728	16.689	16.746	VV	21	519	0.12%	0.081%
183	16.839	16.746	16.895	VV	35	1886	0.44%	0.295%
184	16.909	16.895	16.923	VV	17	205	0.05%	0.032%
185	16.959	16.923	16.987	VV	17	504	0.12%	0.079%
186	17.030	16.987	17.043	PV	20	350	0.08%	0.055%
Sum of corrected areas:						639675		

FB051925.M Thu May 22 02:52:22 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	76.2
Sample Wt/Vol:	6.39	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Test:	Gasoline Range Organics
Prep Method :		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031809.D	1	05/21/25 15:57	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	46.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.6		50 - 150	73%	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\FB052125\
Data File : FB031809.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:57
Operator : YP/AJ
Sample : Q2100-04
Misc : 6.39G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-45

Integration File: Calibration.e
Quant Time: May 22 01:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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	8.796	315441	14.588 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

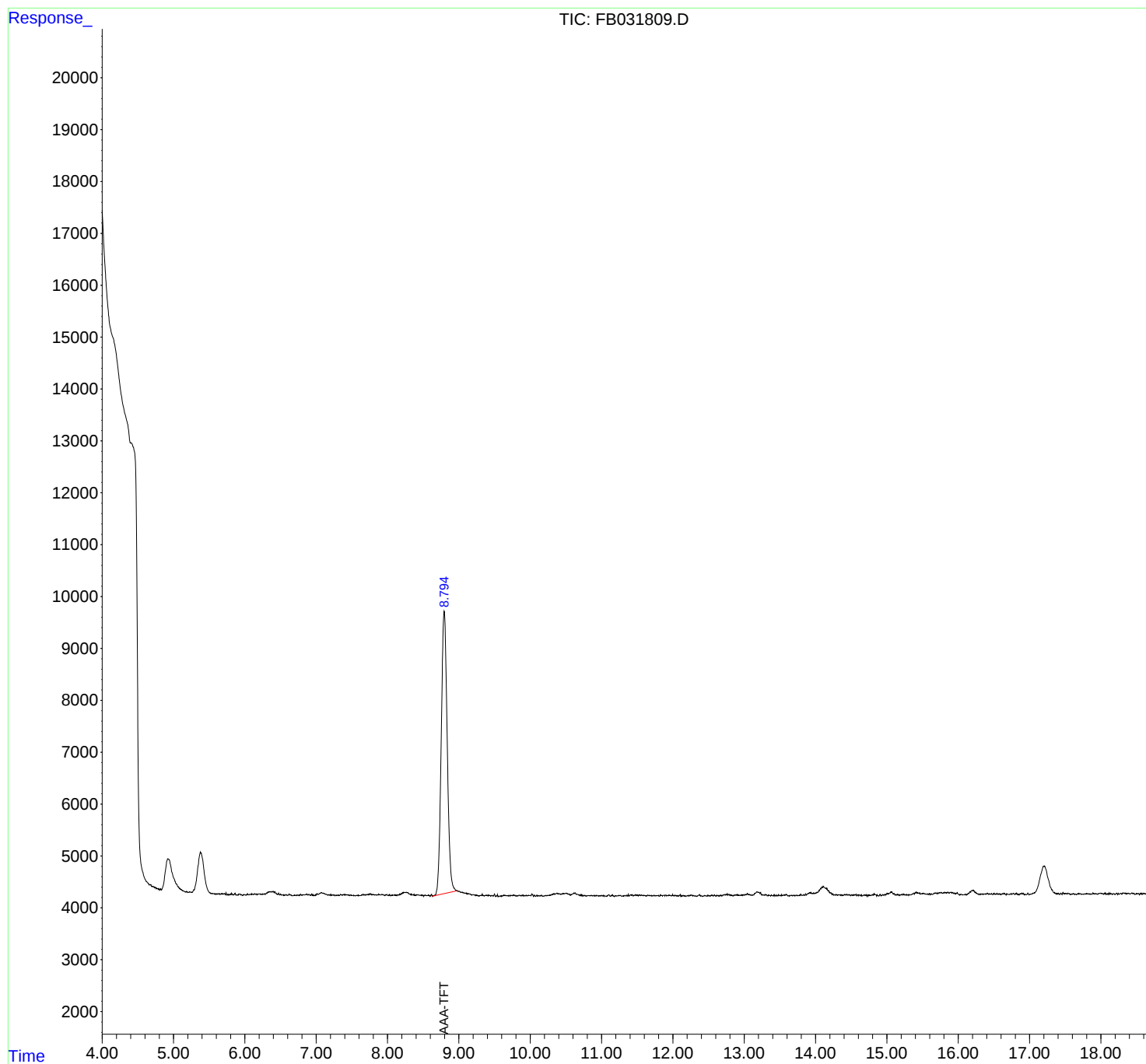
(m)=manual int.

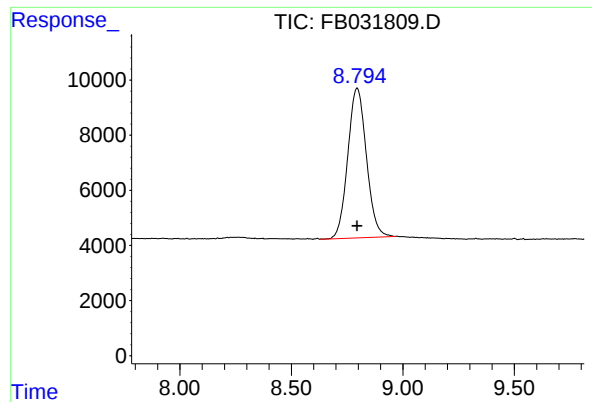
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031809.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:57
Operator : YP/AJ
Sample : Q2100-04
Misc : 6.39G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-45

Integration File: Calibration.e
Quant Time: May 22 01:49:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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.: 8.796 min
Delta R.T.: 0.000 min
Response: 315441
Conc: 14.59 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-45

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031809.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 15:57
Sample : Q2100-04
Misc : 6.39G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.739	4.735	4.809	PV	13	233	0.07%	0.044%
2	4.820	4.809	4.834	PV	25	161	0.05%	0.031%
3	5.186	5.173	5.213	VV	18	122	0.04%	0.023%
4	5.228	5.213	5.248	PV	17	155	0.05%	0.030%
5	5.556	5.548	5.592	VV	15	217	0.07%	0.041%
6	5.599	5.592	5.623	VV	13	185	0.06%	0.035%
7	5.642	5.623	5.664	VV	20	320	0.10%	0.061%
8	5.716	5.664	5.730	VV	31	752	0.23%	0.143%
9	5.739	5.730	5.751	VV	40	243	0.07%	0.046%
10	5.766	5.751	5.798	PV	13	298	0.09%	0.057%
11	5.811	5.798	5.843	VV	39	516	0.16%	0.098%
12	5.864	5.843	5.882	VV	40	450	0.14%	0.086%
13	5.893	5.882	5.902	VV	14	128	0.04%	0.024%
14	5.920	5.902	5.930	VV	34	356	0.11%	0.068%
15	5.941	5.930	5.969	VV	28	415	0.13%	0.079%
16	5.991	5.969	6.014	PV	26	418	0.13%	0.080%
17	6.039	6.014	6.059	VV	35	548	0.17%	0.104%
18	6.070	6.059	6.086	VV	28	396	0.12%	0.076%
19	6.099	6.086	6.107	VV	37	370	0.11%	0.071%
20	6.113	6.107	6.122	VV	31	231	0.07%	0.044%
21	6.139	6.122	6.154	VV	39	598	0.18%	0.114%
22	6.192	6.154	6.226	VV	37	1358	0.41%	0.259%
23	6.273	6.226	6.288	VV	41	1179	0.36%	0.225%
24	6.327	6.288	6.338	VV	74	1710	0.52%	0.326%
25	6.347	6.338	6.362	VV	80	1106	0.34%	0.211%
26	6.369	6.362	6.378	VV	84	723	0.22%	0.138%
27	6.404	6.378	6.414	VV	83	1635	0.50%	0.312%
28	6.422	6.414	6.458	VV	80	1395	0.43%	0.266%
29	6.474	6.458	6.491	VV	49	590	0.18%	0.113%
30	6.500	6.491	6.520	VV	39	431	0.13%	0.082%
31	6.529	6.520	6.558	VV	21	321	0.10%	0.061%
32	6.579	6.558	6.600	VV	21	410	0.12%	0.078%
33	6.622	6.600	6.668	VV	30	661	0.20%	0.126%
34	6.699	6.668	6.726	PV	21	350	0.11%	0.067%
35	6.737	6.726	6.748	VV	21	176	0.05%	0.034%
36	6.782	6.748	6.804	VV	35	580	0.18%	0.110%

					rteres				
37	6.825	6.804	6.843	VV	25	493	0.15%	0.094%	
38	6.870	6.843	6.889	VV	37	758	0.23%	0.145%	
39	6.899	6.889	6.925	VV	31	511	0.16%	0.097%	
40	6.938	6.925	6.945	VV	35	273	0.08%	0.052%	
41	6.950	6.945	6.957	VV	28	125	0.04%	0.024%	
42	7.013	6.957	7.027	VV	47	934	0.28%	0.178%	
43	7.074	7.027	7.128	VV	67	3037	0.93%	0.579%	
44	7.140	7.128	7.194	VV	39	1024	0.31%	0.195%	
45	7.205	7.194	7.219	VV	35	339	0.10%	0.065%	
46	7.229	7.219	7.237	VV	24	212	0.06%	0.040%	
47	7.251	7.237	7.262	VV	25	280	0.09%	0.053%	
48	7.277	7.262	7.285	VV	18	183	0.06%	0.035%	
49	7.292	7.285	7.301	VV	21	151	0.05%	0.029%	
50	7.310	7.301	7.329	VV	21	248	0.08%	0.047%	
51	7.343	7.329	7.368	VV	36	555	0.17%	0.106%	
52	7.384	7.368	7.435	VV	32	1021	0.31%	0.195%	
53	7.443	7.435	7.452	VV	28	225	0.07%	0.043%	
54	7.462	7.452	7.474	VV	24	248	0.08%	0.047%	
55	7.485	7.474	7.502	VV	24	282	0.09%	0.054%	
56	7.513	7.502	7.549	VV	15	330	0.10%	0.063%	
57	7.580	7.549	7.612	VV	18	439	0.13%	0.084%	
58	7.638	7.612	7.646	VV	29	334	0.10%	0.064%	
59	7.659	7.646	7.669	VV	36	403	0.12%	0.077%	
60	7.677	7.669	7.701	VV	31	499	0.15%	0.095%	
61	7.716	7.701	7.728	VV	39	493	0.15%	0.094%	
62	7.739	7.728	7.746	VV	42	361	0.11%	0.069%	
63	7.756	7.746	7.781	VV	53	788	0.24%	0.150%	
64	7.791	7.781	7.822	VV	34	679	0.21%	0.129%	
65	7.828	7.822	7.846	VV	30	391	0.12%	0.075%	
66	7.876	7.846	7.899	VV	39	931	0.28%	0.177%	
67	7.926	7.899	7.966	VV	38	1065	0.32%	0.203%	
68	7.993	7.966	8.008	VV	37	644	0.20%	0.123%	
69	8.017	8.008	8.022	VV	23	154	0.05%	0.029%	
70	8.032	8.022	8.045	VV	38	294	0.09%	0.056%	
71	8.067	8.045	8.075	VV	25	338	0.10%	0.064%	
72	8.152	8.075	8.160	VV	31	1161	0.35%	0.221%	
73	8.171	8.160	8.182	VV	49	460	0.14%	0.088%	
74	8.213	8.182	8.240	VV	74	2041	0.62%	0.389%	
75	8.266	8.240	8.351	VV	80	3754	1.14%	0.716%	
76	8.372	8.351	8.381	VV	36	515	0.16%	0.098%	
77	8.418	8.381	8.465	VV	31	1241	0.38%	0.237%	
78	8.472	8.465	8.508	VV	26	529	0.16%	0.101%	
79	8.529	8.508	8.562	VV	25	604	0.18%	0.115%	
80	8.573	8.562	8.597	VV	31	391	0.12%	0.075%	
81	8.617	8.597	8.629	VV	42	406	0.12%	0.077%	
82	8.638	8.629	8.648	VV	13	141	0.04%	0.027%	
83	8.795	8.648	8.988	VV	5497	328313	100.00%	62.594%	
84	8.995	8.988	9.032	VV	103	2527	0.77%	0.482%	
85	9.043	9.032	9.076	VV	86	2008	0.61%	0.383%	
86	9.085	9.076	9.132	VV	72	2059	0.63%	0.393%	
87	9.138	9.132	9.185	VV	59	1443	0.44%	0.275%	
88	9.197	9.185	9.236	VV	39	993	0.30%	0.189%	
89	9.244	9.236	9.286	VV	32	621	0.19%	0.118%	

					rteres				
90	9.328	9.286	9.356	VV	47	976	0.30%	0.186%	
91	9.392	9.356	9.446	VV	28	1180	0.36%	0.225%	
92	9.500	9.446	9.518	VV	44	854	0.26%	0.163%	
93	9.539	9.518	9.561	PV	28	333	0.10%	0.063%	
94	9.630	9.561	9.708	VV	29	1505	0.46%	0.287%	
95	9.771	9.708	9.829	VV	34	1516	0.46%	0.289%	
96	9.846	9.829	9.875	VV	30	610	0.19%	0.116%	
97	10.027	9.875	10.076	VV	44	2661	0.81%	0.507%	
98	10.093	10.076	10.135	VV	30	564	0.17%	0.108%	
99	10.159	10.135	10.178	VV	32	456	0.14%	0.087%	
100	10.374	10.178	10.438	VV	67	5978	1.82%	1.140%	
101	10.507	10.438	10.564	VV	67	4131	1.26%	0.788%	
102	10.630	10.564	10.748	VV	71	4592	1.40%	0.875%	
103	10.760	10.748	10.797	VV	29	512	0.16%	0.098%	
104	10.824	10.797	10.840	VV	23	481	0.15%	0.092%	
105	10.858	10.840	10.920	VV	22	909	0.28%	0.173%	
106	10.935	10.920	10.972	VV	23	567	0.17%	0.108%	
107	11.006	10.972	11.064	VV	25	918	0.28%	0.175%	
108	11.102	11.064	11.126	VV	36	734	0.22%	0.140%	
109	11.155	11.126	11.184	VV	35	566	0.17%	0.108%	
110	11.198	11.184	11.216	PV	13	267	0.08%	0.051%	
111	11.266	11.216	11.286	VV	24	731	0.22%	0.139%	
112	11.329	11.286	11.362	VV	22	660	0.20%	0.126%	
113	11.375	11.362	11.426	VV	43	948	0.29%	0.181%	
114	11.433	11.426	11.448	VV	39	361	0.11%	0.069%	
115	11.491	11.448	11.518	VV	34	1107	0.34%	0.211%	
116	11.531	11.518	11.629	VV	36	1564	0.48%	0.298%	
117	11.651	11.629	11.714	VV	29	974	0.30%	0.186%	
118	11.737	11.714	11.753	VV	28	448	0.14%	0.085%	
119	11.776	11.753	11.812	VV	22	591	0.18%	0.113%	
120	11.829	11.812	11.855	VV	30	480	0.15%	0.092%	
121	11.899	11.855	11.934	VV	28	1002	0.31%	0.191%	
122	11.949	11.934	11.978	VV	30	524	0.16%	0.100%	
123	11.994	11.978	12.057	VV	34	870	0.26%	0.166%	
124	12.102	12.057	12.124	VV	38	669	0.20%	0.128%	
125	12.138	12.124	12.180	VV	18	451	0.14%	0.086%	
126	12.256	12.180	12.334	VV	31	1433	0.44%	0.273%	
127	12.373	12.334	12.417	VV	30	767	0.23%	0.146%	
128	12.448	12.417	12.472	PV	17	357	0.11%	0.068%	
129	12.497	12.472	12.524	VV	20	431	0.13%	0.082%	
130	12.549	12.524	12.567	VV	30	463	0.14%	0.088%	
131	12.583	12.567	12.648	VV	31	766	0.23%	0.146%	
132	12.763	12.648	12.848	VV	49	3088	0.94%	0.589%	
133	12.901	12.848	12.946	VV	42	1425	0.43%	0.272%	
134	13.045	12.946	13.110	VV	60	3068	0.93%	0.585%	
135	13.180	13.110	13.288	VV	89	5424	1.65%	1.034%	
136	13.302	13.288	13.328	VV	32	633	0.19%	0.121%	
137	13.355	13.328	13.371	VV	23	444	0.14%	0.085%	
138	13.385	13.371	13.406	VV	19	335	0.10%	0.064%	
139	13.482	13.406	13.508	VV	32	1005	0.31%	0.192%	
140	13.522	13.508	13.544	VV	32	405	0.12%	0.077%	
141	13.559	13.544	13.571	VV	30	358	0.11%	0.068%	

					rteres			
142	13.591	13.571	13.630	VV	34	740	0.23%	0.141%
143	13.680	13.630	13.707	VV	18	700	0.21%	0.133%
144	13.735	13.707	13.763	VV	22	531	0.16%	0.101%
145	13.795	13.763	13.812	VV	44	679	0.21%	0.129%
146	13.933	13.812	13.964	VV	72	3910	1.19%	0.745%
147	14.111	13.964	14.309	VV	184	18949	5.77%	3.613%
148	14.325	14.309	14.384	VV	30	1027	0.31%	0.196%
149	14.410	14.384	14.452	VV	33	1059	0.32%	0.202%
150	14.474	14.452	14.496	VV	33	626	0.19%	0.119%
151	14.567	14.496	14.581	VV	36	1168	0.36%	0.223%
152	14.593	14.581	14.657	VV	32	801	0.24%	0.153%
153	14.710	14.657	14.777	VV	30	1196	0.36%	0.228%
154	14.824	14.777	14.888	VV	41	1467	0.45%	0.280%
155	14.905	14.888	14.920	PV	26	344	0.10%	0.066%
156	15.063	14.920	15.144	VV	72	5233	1.59%	0.998%
157	15.153	15.144	15.185	VV	34	542	0.16%	0.103%
158	15.228	15.185	15.327	VV	37	1926	0.59%	0.367%
159	15.410	15.327	15.476	VV	69	4011	1.22%	0.765%
160	15.517	15.476	15.587	VV	49	2425	0.74%	0.462%
161	15.595	15.587	15.609	VV	45	422	0.13%	0.080%
162	15.623	15.609	15.643	VV	40	585	0.18%	0.112%
163	15.684	15.643	15.718	VV	52	1932	0.59%	0.368%
164	15.736	15.718	15.782	VV	60	2037	0.62%	0.388%
165	15.811	15.782	15.840	VV	60	1918	0.58%	0.366%
166	15.854	15.840	15.874	VV	68	1158	0.35%	0.221%
167	15.898	15.874	15.964	VV	62	2695	0.82%	0.514%
168	15.987	15.964	16.024	VV	55	1170	0.36%	0.223%
169	16.045	16.024	16.063	VV	23	383	0.12%	0.073%
170	16.099	16.063	16.119	VV	20	467	0.14%	0.089%
171	16.196	16.119	16.349	VV	98	6511	1.98%	1.241%
172	16.378	16.349	16.391	VV	27	589	0.18%	0.112%
173	16.408	16.391	16.433	VV	42	674	0.21%	0.129%
174	16.466	16.433	16.483	VV	31	635	0.19%	0.121%
175	16.497	16.483	16.522	VV	32	510	0.16%	0.097%
176	16.547	16.522	16.562	VV	30	519	0.16%	0.099%
177	16.582	16.562	16.603	VV	27	459	0.14%	0.087%
178	16.637	16.603	16.711	VV	32	1381	0.42%	0.263%
179	16.774	16.711	16.795	VV	30	998	0.30%	0.190%
180	16.814	16.795	16.853	VV	38	623	0.19%	0.119%
181	16.893	16.853	16.959	VV	35	1094	0.33%	0.209%
182	16.977	16.959	16.995	VV	38	342	0.10%	0.065%
Sum of corrected areas:							524515	

FB051925.M Thu May 22 02:52:49 2025



CALIBRATION SUMMARY

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100

Calibration Sequence : FB051925		Test : Gasoline Range Organics	
Concentration (PPB)	Area Count	Reference Factor	File ID
45	1581426	35143	FB031773.D
90	3666341	40737	FB031774.D
180	7299621	40553	FB031775.D
450	17934599	39855	FB031776.D
900	34196369	37996	FB031777.D
AVG RF : 38857		% RSD : 6.028	AVG RT : 8.795

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100
DataFile: FB031797.D Analyst Name: YP/AJ Analyst Date: 05-21-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6713502	37297	38857	4.015

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
 Data File : FB031797.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 9:04
 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 05/22/2025
 Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
 Quant Time: May 22 01:47:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Quant Title :
 QLast Update : Mon May 19 10:47:15 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	356006	16.464 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.725	909148	27.269 ng/mlm
2) t 2,2,4-Trimethylpentane	7.426	1164957	29.149 ng/ml
3) t n-Heptane	7.756	350992	9.176 ng/ml
4) t Benzene	7.895	461843	9.849 ng/ml
6) t Toluene	10.623	1303325	29.518 ng/ml
7) t Ethylbenzene	13.058	374720	9.660 ng/ml
8) t m-Xylene	13.192	825142	19.138 ng/ml
9) t O-Xylene	13.920	786377	19.705 ng/ml
10) t 1,2,4-Trimethylbenzene	16.196	536998	18.821 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031797.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:04
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

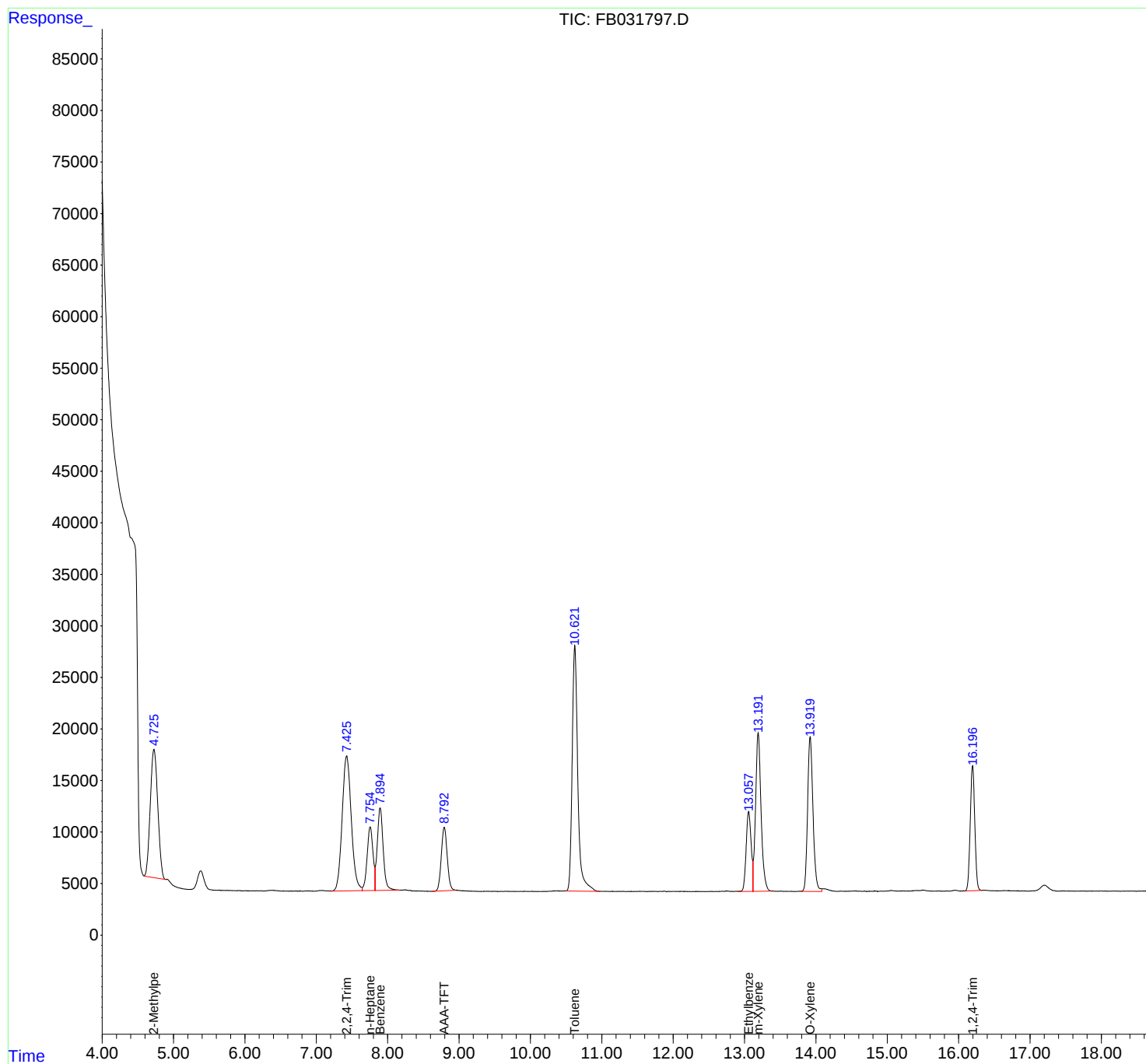
Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
Quant Time: May 22 01:47:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_B

LabSampleId :

20 PPB GRO STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025

Supervised By :mohammad ahmed 05/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB05212
Data File : FB031797.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:04
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.726	4.576	5.216	BV	12561	927458	71.16%	13.085%
2	7.426	7.212	7.643	PV	13100	1164957	89.38%	16.436%
3	7.756	7.643	7.823	VV	6181	350992	26.93%	4.952%
4	7.895	7.823	8.169	VV	8011	461843	35.44%	6.516%
5	8.793	8.612	8.957	BV	6172	356006	27.32%	5.023%
6	10.623	10.497	10.975	PV	23850	1303325	100.00%	18.388%
7	13.058	12.909	13.119	BV	7757	374720	28.75%	5.287%
8	13.192	13.119	13.380	VV	15369	825142	63.31%	11.642%
9	13.920	13.797	14.084	PV	15011	786377	60.34%	11.095%
10	16.196	16.088	16.333	PV	12126	536998	41.20%	7.576%

Sum of corrected areas: 7087817

FB051925.M Thu May 22 02:46:24 2025

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100
DataFile: FB031805.D Analyst Name: YP/AJ Analyst Date: 05-21-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6687638	37154	38857	4.383

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
 Data File : FB031805.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 13:23
 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: May 22 01:49:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Quant Title :
 QLast Update : Mon May 19 10:47:15 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	362601	16.769 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.728	969892	29.091 ng/ml
2) t 2,2,4-Trimethylpentane	7.426	1161760	29.069 ng/ml
3) t n-Heptane	7.757	357998	9.359 ng/ml
4) t Benzene	7.897	450864	9.615 ng/ml
6) t Toluene	10.624	1266431	28.683 ng/ml
7) t Ethylbenzene	13.060	369145	9.516 ng/ml
8) t m-Xylene	13.194	817479	18.960 ng/ml
9) t O-Xylene	13.922	768034	19.245 ng/ml
10) t 1,2,4-Trimethylbenzene	16.196	526035	18.436 ng/ml

(f)=RT Delta > 1/2 Window

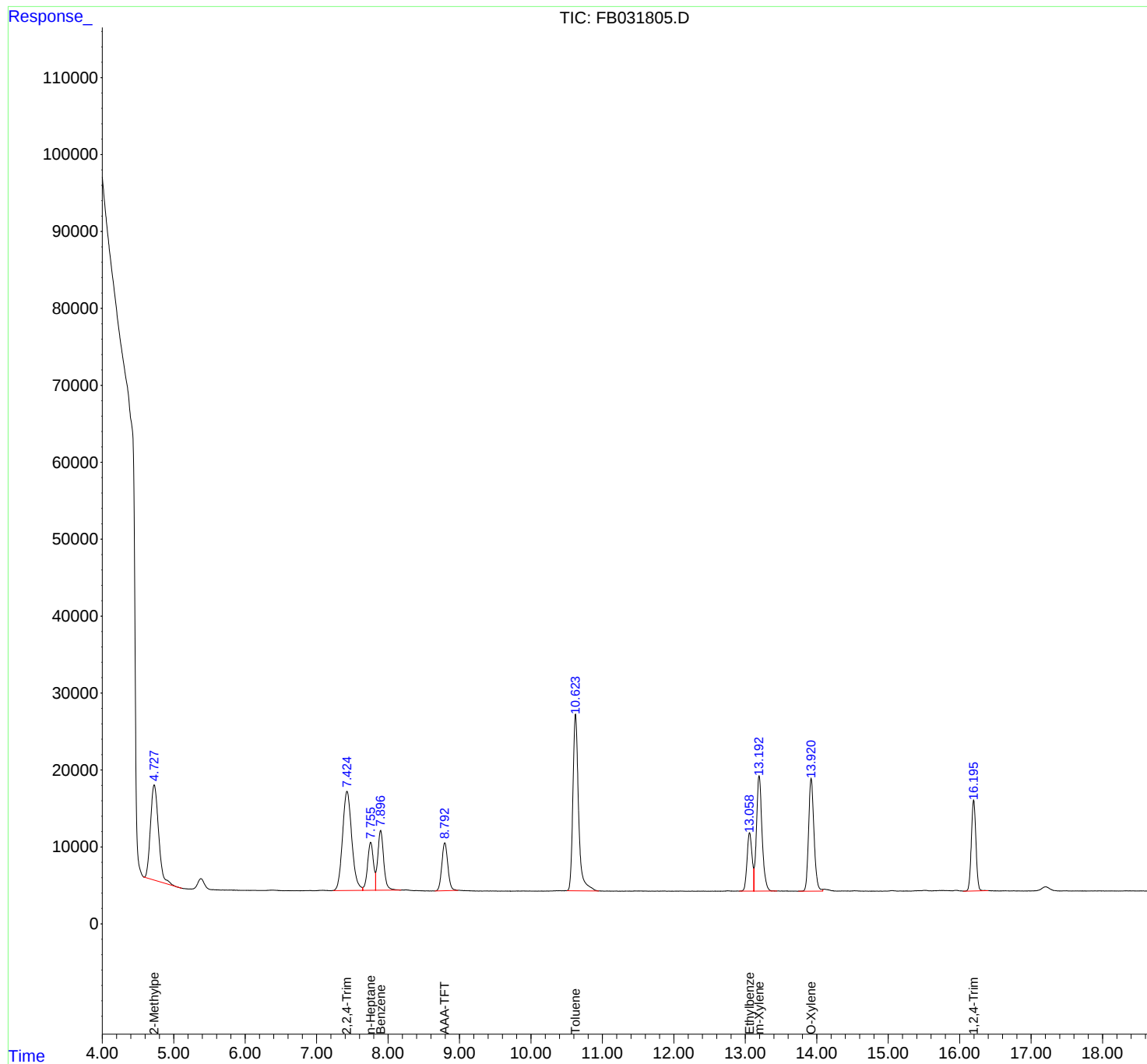
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031805.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 13:23
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: May 22 01:49:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
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\FB052125\
Data File : FB031805.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 13:23
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.728	4.576	5.116	BV	12390	969892	76.58%	13.757%
2	7.426	7.231	7.645	VV	12906	1161760	91.73%	16.478%
3	7.757	7.645	7.825	VV	6245	357998	28.27%	5.078%
4	7.897	7.825	8.183	VV	7791	450864	35.60%	6.395%
5	8.794	8.654	8.979	BV	6227	362601	28.63%	5.143%
6	10.624	10.502	10.953	BV	22938	1266431	100.00%	17.963%
7	13.060	12.915	13.121	PV	7592	369145	29.15%	5.236%
8	13.194	13.121	13.447	VV	14993	817479	64.55%	11.595%
9	13.922	13.742	14.084	BV	14645	768034	60.65%	10.894%
10	16.196	16.052	16.403	PBA	11808	526035	41.54%	7.461%

Sum of corrected areas: 7050241

FB051925.M Thu May 22 02:48:34 2025

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG No.: Q2100
DataFile: FB031811.D Analyst Name: YP/AJ Analyst Date: 05-21-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	7030843	39060	38857	0.522

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
 Data File : FB031811.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 16:52
 Operator : YP/AJ
 Sample : 20 PPB GRO STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 20 PPB GRO STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 05/22/2025
 Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
 Quant Time: May 22 01:50:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Quant Title :
 QLast Update : Mon May 19 10:47:15 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	8.796	396824	18.351 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.727	1039276	31.172 ng/mlm
2) t 2,2,4-Trimethylpentane	7.433	1234994	30.901 ng/ml
3) t n-Heptane	7.758	391840	10.244 ng/ml
4) t Benzene	7.898	481212	10.262 ng/ml
6) t Toluene	10.626	1336721	30.275 ng/ml
7) t Ethylbenzene	13.062	382649	9.864 ng/ml
8) t m-Xylene	13.196	847125	19.648 ng/ml
9) t O-Xylene	13.924	793591	19.885 ng/ml
10) t 1,2,4-Trimethylbenzene	16.198	523435	18.345 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031811.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 16:52
Operator : YP/AJ
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

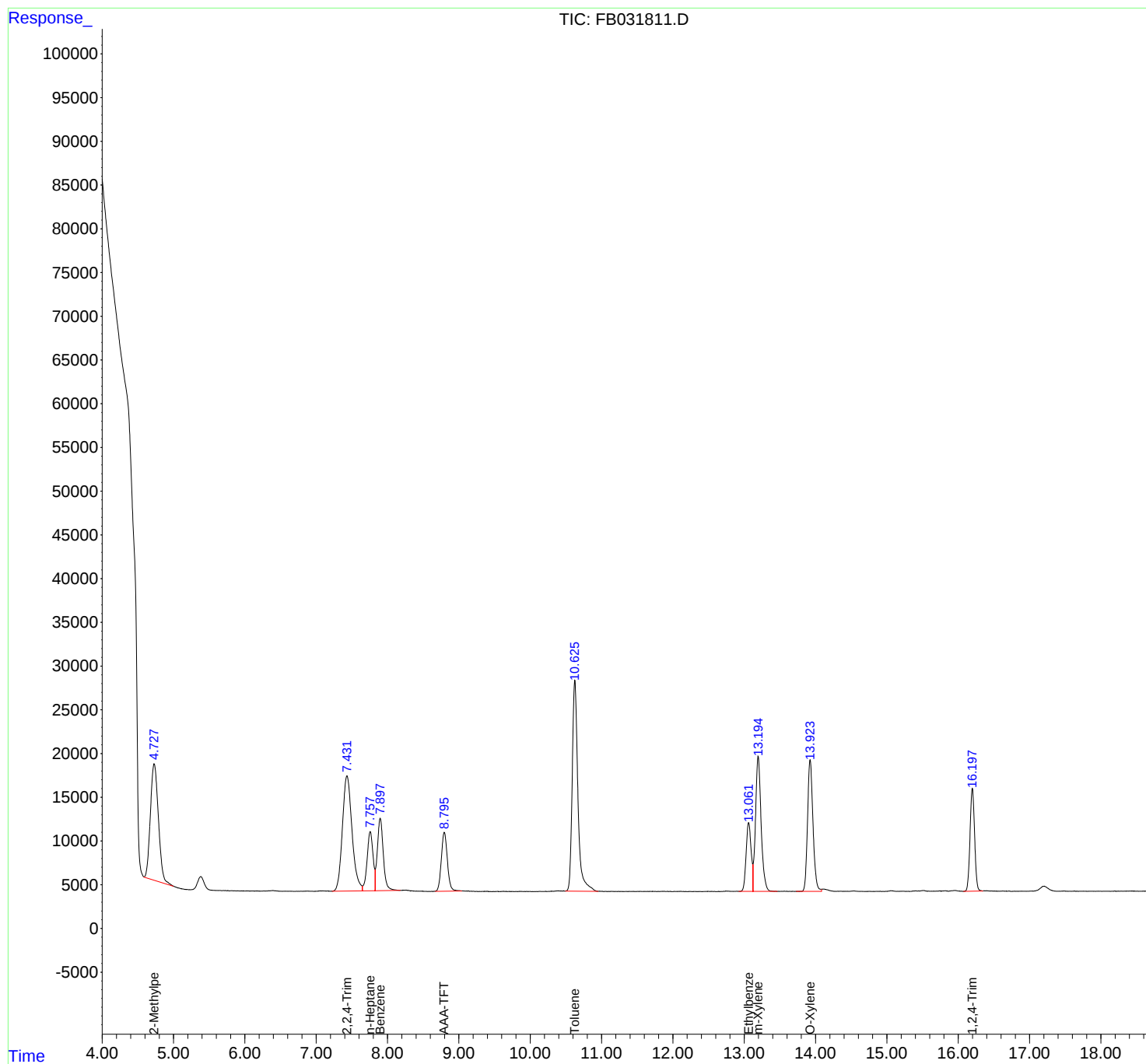
Instrument :
FID_B
ClientSampleId :
20 PPB GRO STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
Quant Time: May 22 01:50:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_B

LabSampleId :

20 PPB GRO STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025

Supervised By :mohammad ahmed 05/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB05212
Data File : FB031811.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 16:52
Sample : 20 PPB GRO STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: Calibration.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.729	4.582	5.244	BV	13245	996013	74.51%	13.488%
2	7.433	7.222	7.647	PV	13185	1234994	92.39%	16.724%
3	7.758	7.647	7.827	VV	6778	391840	29.31%	5.306%
4	7.898	7.827	8.183	VV	8278	481212	36.00%	6.517%
5	8.796	8.665	9.043	PV	6744	396824	29.69%	5.374%
6	10.626	10.491	10.951	BV	24122	1336721	100.00%	18.102%
7	13.062	12.922	13.123	PV	7870	382649	28.63%	5.182%
8	13.196	13.123	13.466	VV	15462	847125	63.37%	11.472%
9	13.924	13.731	14.083	BV	15056	793591	59.37%	10.747%
10	16.198	16.071	16.347	PV	11761	523435	39.16%	7.088%

Sum of corrected areas: 7384403

FB051925.M Thu May 22 02:49:16 2025

Analytical Sequence

Client: CDM Smith

SDG No.: Q2100

Project: South River WM Replacement

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					8.795
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 9:04	FB031797.D	8.793	
VBF0521S1	VBF0521S1	21 May 2025 9:44	FB031798.D	8.795	
BSF0521S1	BSF0521S1	21 May 2025 10:40	FB031800.D	8.796	
BSF0521S2	BSF0521S2	21 May 2025 12:39	FB031804.D	8.795	
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 13:23	FB031805.D	8.794	
TP-16	Q2100-01	21 May 2025 14:34	FB031806.D	8.794	
TP-22	Q2100-02	21 May 2025 15:01	FB031807.D	8.647	*
TP-21	Q2100-03	21 May 2025 15:29	FB031808.D	8.621	*
TP-45	Q2100-04	21 May 2025 15:57	FB031809.D	8.617	*
20 PPB GRO STD	20 PPB GRO STD	21 May 2025 16:52	FB031811.D	8.796	



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0521S1	SDG No.:	Q2100
Lab Sample ID:	VBF0521S1	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
FB031798.D	1	05/21/25 9:44	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	19.6		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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031798.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:44
Operator : YP/AJ
Sample : VBF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0521S1

Integration File: Calibration.e
Quant Time: May 22 01:47:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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	8.795	424510	19.632 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

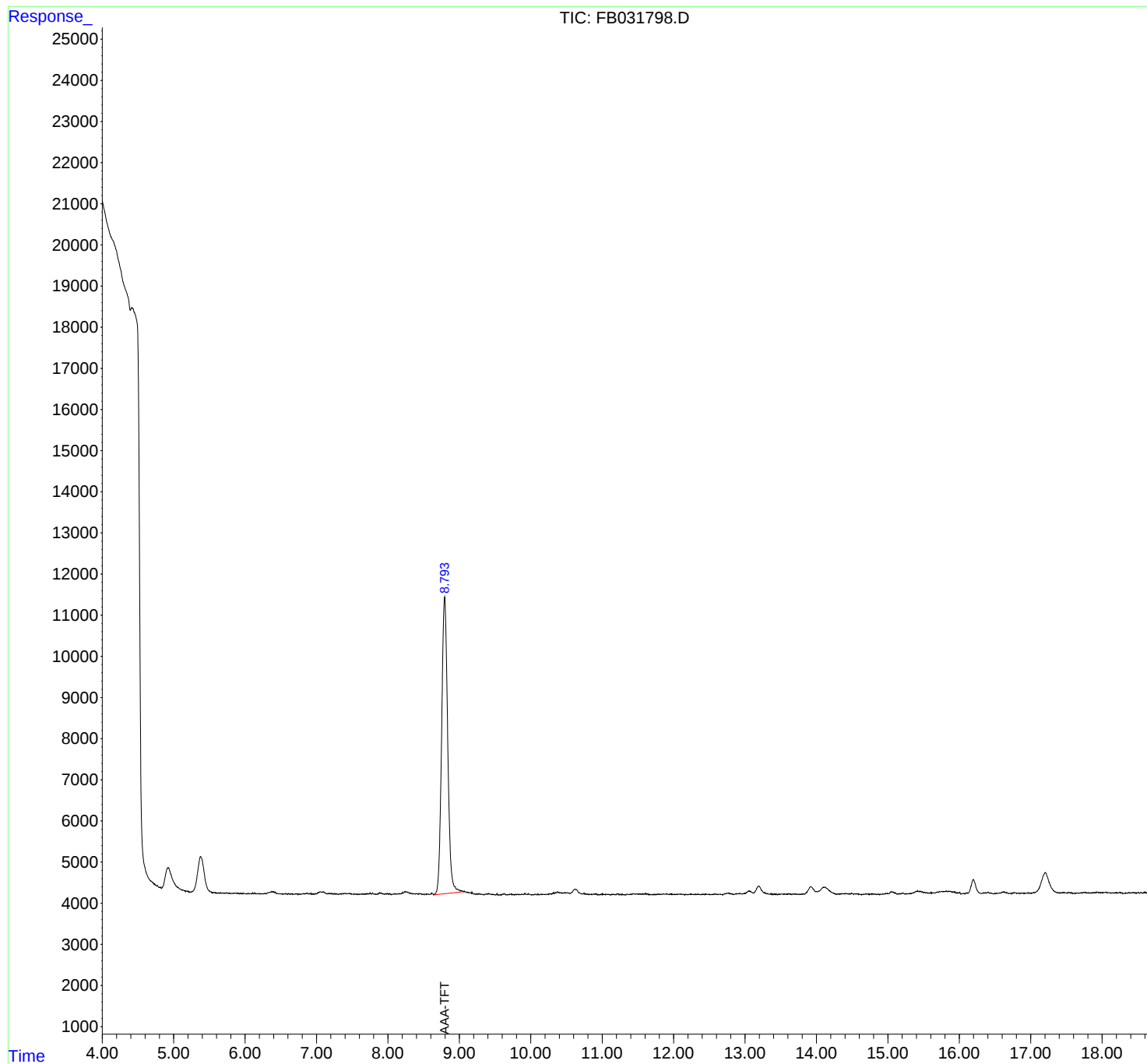
(m)=manual int.

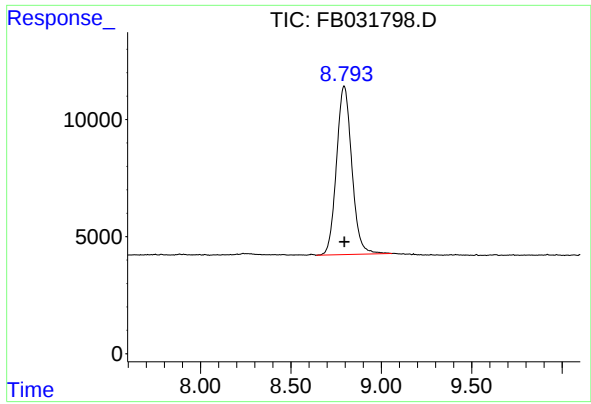
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031798.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:44
Operator : YP/AJ
Sample : VBF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
VBF0521S1

Integration File: Calibration.e
Quant Time: May 22 01:47:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 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.: 8.795 min
Delta R.T.: -0.001 min
Response: 424510
Conc: 19.63 ng/ml

Instrument :

FID_B

ClientSampleId :

VBF0521S1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031798.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 9:44
Sample : VBF0521S1
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\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.795	8.640	9.057	PV	7203	424510	100.00%	100.000%
Sum of corrected areas:						424510		

FB051925.M Thu May 22 02:47:01 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0521S1	SDG No.:	Q2100
Lab Sample ID:	BSF0521S1	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
FB031800.D	1	05/21/25 10:40	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	149		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	14.6		50 - 150	73%	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\FB052125\
 Data File : FB031800.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 10:40
 Operator : YP/AJ
 Sample : BSF0521S1
 Misc : 5.00G/5.00 ML DI WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF0521S1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 05/22/2025
 Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
 Quant Time: May 22 01:48:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Quant Title :
 QLast Update : Mon May 19 10:47:15 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	8.796	315810	14.605 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.725	829785	24.889 ng/mlm
2) t 2,2,4-Trimethylpentane	7.425	1033102	25.849 ng/ml
3) t n-Heptane	7.758	310105	8.107 ng/ml
4) t Benzene	7.898	388625	8.288 ng/ml
6) t Toluene	10.624	1105052	25.028 ng/ml
7) t Ethylbenzene	13.061	318035	8.198 ng/ml
8) t m-Xylene	13.194	710442	16.478 ng/ml
9) t O-Xylene	13.923	672628	16.854 ng/ml
10) t 1,2,4-Trimethylbenzene	16.197	448249	15.710 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031800.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:40
Operator : YP/AJ
Sample : BSF0521S1
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 4 Sample Multiplier: 1

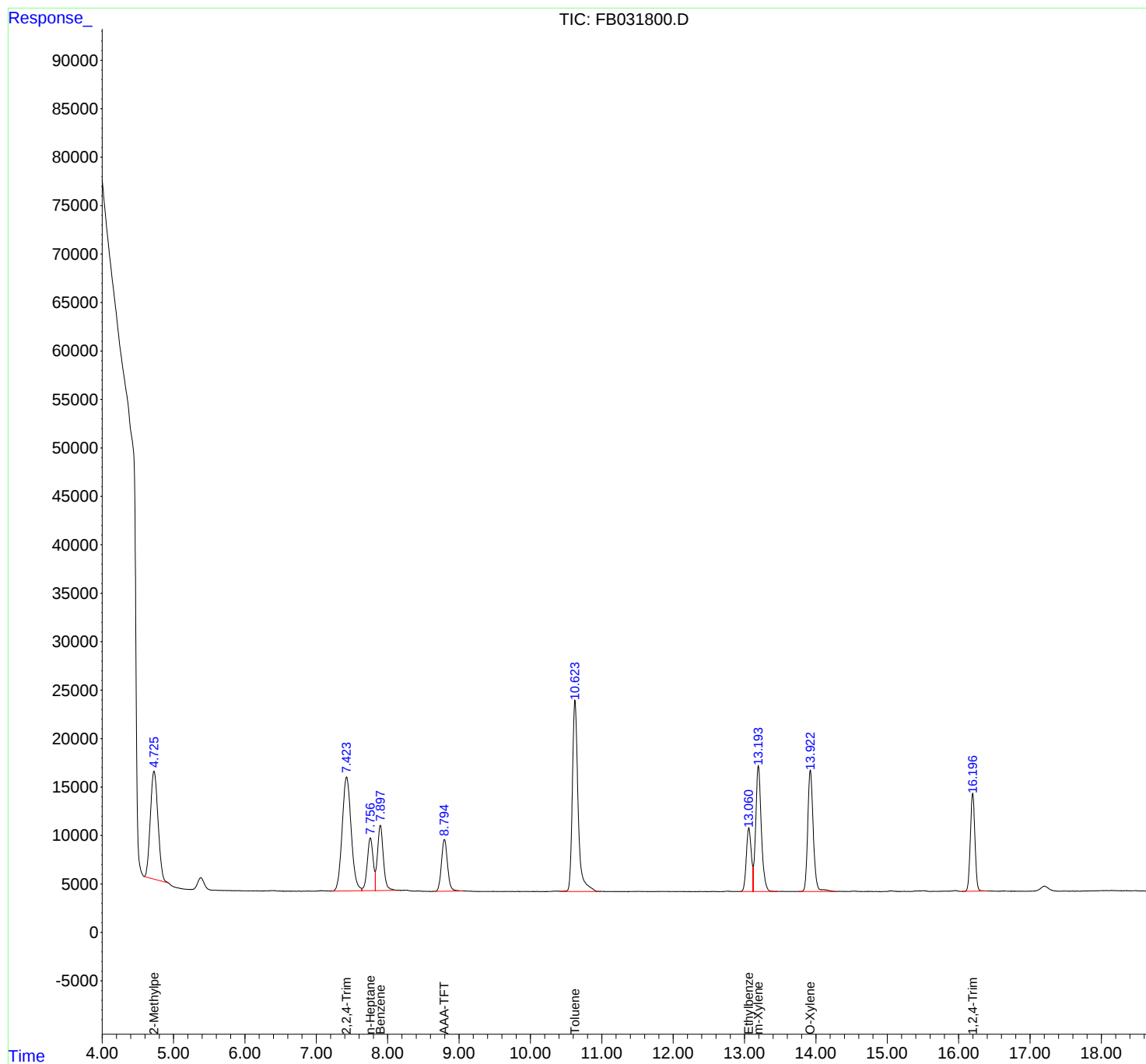
Instrument :
FID_B
ClientSampleId :
BSF0521S1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
Quant Time: May 22 01:48:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_B

ClientSampleId :

BSF0521S1

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025

Supervised By :mohammad ahmed 05/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB05212
Data File : FB031800.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 10:40
Sample : BSF0521S1
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\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.727	4.582	5.219	BV	11150	813215	73.59%	13.298%
2	7.425	7.217	7.638	PV	11766	1033102	93.49%	16.894%
3	7.758	7.638	7.826	VV	5448	310105	28.06%	5.071%
4	7.898	7.826	8.134	VV	6739	388625	35.17%	6.355%
5	8.796	8.661	9.052	PV	5346	315810	28.58%	5.164%
6	10.624	10.417	10.963	VV	19732	1105052	100.00%	18.070%
7	13.061	12.943	13.121	BV	6576	318035	28.78%	5.201%
8	13.194	13.121	13.469	VV	12975	710442	64.29%	11.618%
9	13.923	13.756	14.282	BV	12538	672628	60.87%	10.999%
10	16.197	16.046	16.401	BBA	10086	448249	40.56%	7.330%

Sum of corrected areas: 6115263

FB051925.M Thu May 22 02:47:39 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0521S2	SDG No.:	Q2100
Lab Sample ID:	BSF0521S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :		Final Vol:	5
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031804.D	1	05/21/25 12:39	FB052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	161		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.9		50 - 150	90%	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\FB052125\
 Data File : FB031804.D
 Signal(s) : FID2B.CH
 Acq On : 21 May 2025 12:39
 Operator : YP/AJ
 Sample : BSF0521S2
 Misc : 5.00G/5.00 ML DI WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 FID_B
 ClientSampleId :
 BSF0521S2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 05/22/2025
 Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
 Quant Time: May 22 01:48:55 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
 Quant Title :
 QLast Update : Mon May 19 10:47:15 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	8.795	387952	17.941 ng/ml
Target Compounds			
1) t 2-Methylpentane	4.727	843138	25.289 ng/mlm
2) t 2,2,4-Trimethylpentane	7.428	1087274	27.205 ng/ml
3) t n-Heptane	7.757	332293	8.687 ng/ml
4) t Benzene	7.897	430616	9.183 ng/ml
6) t Toluene	10.624	1215320	27.525 ng/ml
7) t Ethylbenzene	13.060	346539	8.933 ng/ml
8) t m-Xylene	13.194	765945	17.765 ng/ml
9) t O-Xylene	13.922	721022	18.067 ng/ml
10) t 1,2,4-Trimethylbenzene	16.197	479047	16.790 ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB052125\
Data File : FB031804.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:39
Operator : YP/AJ
Sample : BSF0521S2
Misc : 5.00G/5.00 ML DI WATER
ALS Vial : 8 Sample Multiplier: 1

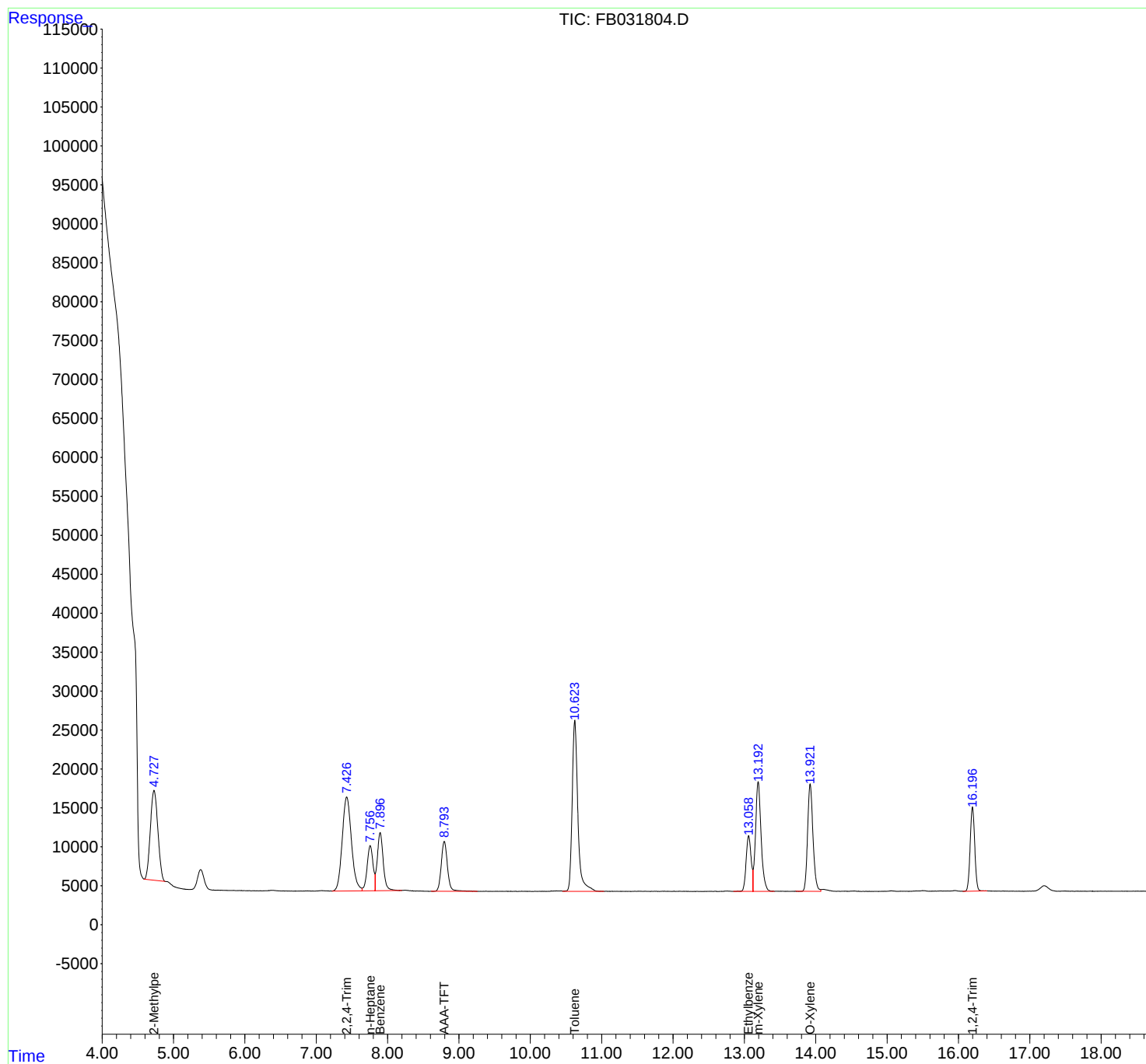
Instrument :
FID_B
ClientSampleId :
BSF0521S2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/22/2025
Supervised By :mohammad ahmed 05/26/2025

Integration File: Calibration.e
Quant Time: May 22 01:48:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB051925.M
Quant Title :
QLast Update : Mon May 19 10:47:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_B

ClientSampleId :

BSF0521S2

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/22/2025

Supervised By :mohammad ahmed 05/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB05212
Data File : FB031804.D
Signal(s) : FID2B.CH
Acq On : 21 May 2025 12:39
Sample : BSF0521S2
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\FB051925.M
Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.728	4.582	5.127	BV	11708	894851	73.63%	13.434%
2	7.428	7.220	7.643	PV	12072	1087274	89.46%	16.323%
3	7.757	7.643	7.825	VV	5807	332293	27.34%	4.989%
4	7.897	7.825	8.200	VV	7463	430616	35.43%	6.465%
5	8.795	8.609	9.260	BB	6418	387952	31.92%	5.824%
6	10.624	10.454	11.033	VV	21931	1215320	100.00%	18.246%
7	13.060	12.845	13.120	BV	7164	346539	28.51%	5.203%
8	13.194	13.120	13.422	VV	14069	765945	63.02%	11.499%
9	13.922	13.722	14.072	BV	13801	721022	59.33%	10.825%
10	16.197	16.060	16.403	PBA	10788	479047	39.42%	7.192%

Sum of corrected areas: 6660860

FB051925.M Thu May 22 02:48:15 2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
10 GRO STD		FB031774.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly
50 GRO STD		FB031776.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly
100 GRO STD		FB031777.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly
FB051925GROICV		FB031778.D	FB051925	2-Methylpentane	mohammad	5/21/2025 5:31:15 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
20 PPB GRO STD		FB031797.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
BSF0521S1		FB031800.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
BSF0521S2		FB031804.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
BSF0521S3		FB031810.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly
20 PPB GRO STD		FB031811.D	FB052125	2-Methylpentane	mohammad	5/26/2025 2:21:45 AM	Peak Integrated by Software incorrectly

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB051925

Review By	yogesh	Review On	5/19/2025 11:36:03 AM
Supervise By	mohammad	Supervise On	5/21/2025 5:31:15 AM
SubDirectory	FB051925	HP Acquire Method	HP Processing Method FB051925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24111,PP24590		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	5 GRO STD	FB031773.D	19 May 2025 9:07	YP/AJ	Ok
2	10 GRO STD	FB031774.D	19 May 2025 9:35	YP/AJ	Ok,M
3	20 GRO STD	FB031775.D	19 May 2025 10:03	YP/AJ	Ok
4	50 GRO STD	FB031776.D	19 May 2025 10:31	YP/AJ	Ok,M
5	100 GRO STD	FB031777.D	19 May 2025 10:58	YP/AJ	Ok,M
6	FB051925GROICV	FB031778.D	19 May 2025 11:41	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB052125

Review By	yogesh	Review On	5/21/2025 2:47:29 PM
Supervise By	mohammad	Supervise On	5/26/2025 2:21:45 AM
SubDirectory	FB052125	HP Acquire Method	HP Processing Method FB051925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589		
CCC Internal Standard/PEM	PP24598,PP24599,PP24600		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24111,PP24590		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	20 PPB GRO STD	FB031797.D	21 May 2025 9:04	YP/AJ	Ok,M
2	VBF0521S1	FB031798.D	21 May 2025 9:44	YP/AJ	Ok
3	VBF0521S2	FB031799.D	21 May 2025 10:12	YP/AJ	Ok
4	BSF0521S1	FB031800.D	21 May 2025 10:40	YP/AJ	Ok,M
5	Q2074-05	FB031801.D	21 May 2025 11:08	YP/AJ	Ok
6	Q2074-07	FB031802.D	21 May 2025 11:35	YP/AJ	Ok
7	Q2074-08	FB031803.D	21 May 2025 12:12	YP/AJ	Ok
8	BSF0521S2	FB031804.D	21 May 2025 12:39	YP/AJ	Ok,M
9	20 PPB GRO STD	FB031805.D	21 May 2025 13:23	YP/AJ	Ok
10	Q2100-01	FB031806.D	21 May 2025 14:34	YP/AJ	Ok
11	Q2100-02	FB031807.D	21 May 2025 15:01	YP/AJ	Ok
12	Q2100-03	FB031808.D	21 May 2025 15:29	YP/AJ	Ok
13	Q2100-04	FB031809.D	21 May 2025 15:57	YP/AJ	Ok
14	BSF0521S3	FB031810.D	21 May 2025 16:25	YP/AJ	Ok,M
15	20 PPB GRO STD	FB031811.D	21 May 2025 16:52	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB051925

Review By	yogesh	Review On	5/19/2025 11:36:03 AM
Supervise By	mohammad	Supervise On	5/21/2025 5:31:15 AM
SubDirectory	FB051925	HP Acquire Method	HP Processing Method
			FB051925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24111,PP24590		

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	5 GRO STD		FB031773.D	19 May 2025 9:07		YP/AJ	Ok
2	10 GRO STD		FB031774.D	19 May 2025 9:35		YP/AJ	Ok,M
3	20 GRO STD		FB031775.D	19 May 2025 10:03		YP/AJ	Ok
4	50 GRO STD		FB031776.D	19 May 2025 10:31		YP/AJ	Ok,M
5	100 GRO STD		FB031777.D	19 May 2025 10:58		YP/AJ	Ok,M
6	FB051925GROICV		FB031778.D	19 May 2025 11:41		YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_B

Daily Analysis Runlog For Sequence/QC Batch ID # FB052125

Review By	yogesh	Review On	5/21/2025 2:47:29 PM
Supervise By	mohammad	Supervise On	5/26/2025 2:21:45 AM
SubDirectory	FB052125	HP Acquire Method	HP Processing Method
			FB051925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24110,PP24585,PP24586,PP24587,PP24588,PP24589		
CCC Internal Standard/PEM	PP24598,PP24599,PP24600		
ICV/I.BLK Surrogate Standard	PP24111,PP24590		
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	20 PPB GRO STD		FB031797.D	21 May 2025 9:04		YP/AJ	Ok,M
2	VBF0521S1		FB031798.D	21 May 2025 9:44		YP/AJ	Ok
3	VBF0521S2		FB031799.D	21 May 2025 10:12		YP/AJ	Ok
4	BSF0521S1		FB031800.D	21 May 2025 10:40		YP/AJ	Ok,M
5	Q2074-05		FB031801.D	21 May 2025 11:08	Vial-C	YP/AJ	Ok
6	Q2074-07		FB031802.D	21 May 2025 11:35	Vial-C	YP/AJ	Ok
7	Q2074-08		FB031803.D	21 May 2025 12:12	Vial-C	YP/AJ	Ok
8	BSF0521S2		FB031804.D	21 May 2025 12:39		YP/AJ	Ok,M
9	20 PPB GRO STD		FB031805.D	21 May 2025 13:23		YP/AJ	Ok
10	Q2100-01		FB031806.D	21 May 2025 14:34	Vial-A	YP/AJ	Ok
11	Q2100-02		FB031807.D	21 May 2025 15:01	Vial-A	YP/AJ	Ok
12	Q2100-03		FB031808.D	21 May 2025 15:29	Vial-A	YP/AJ	Ok
13	Q2100-04		FB031809.D	21 May 2025 15:57	Vial-A	YP/AJ	Ok
14	BSF0521S3		FB031810.D	21 May 2025 16:25		YP/AJ	Ok,M
15	20 PPB GRO STD		FB031811.D	21 May 2025 16:52		YP/AJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 05/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135864

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
Q2100-01	TP-16	1	1.15	10.12	11.27	10.1	88.4	
Q2100-02	TP-22	2	1.18	10.32	11.5	9.85	84.0	
Q2100-03	TP-21	3	1.19	10.32	11.51	9.26	78.2	
Q2100-04	TP-45	4	1.18	10.42	11.6	9.12	76.2	
Q2101-01	TP-1-MHE	5	1.19	9.85	11.04	10.44	93.9	
Q2101-02	TP-1-MHE-E2	6	1.19	10.48	11.67	11.11	94.7	
Q2101-03	TP-1-MHE-VOC	7	1.15	10.40	11.55	10.94	94.1	
Q2102-01	LAW-25-0077	8	1.18	10.48	11.66	10.3	87.0	
Q2102-02	LAW-25-0077-E2	9	1.13	9.57	10.7	9.54	87.9	
Q2103-01	245F59-FRONT	10	1.00	1.00	2.00	2.00	100.0	oilc
Q2103-02	245F59-END	11	1.00	1.00	2.00	2.00	100.0	oilc
Q2103-03	BC248114-FRONT	12	1.00	1.00	2.00	2.00	100.0	oilc
Q2103-04	BC248114-END	13	1.00	1.00	2.00	2.00	100.0	oilc
Q2104-01	TR-06-052125	14	1.18	10.28	11.46	10.63	91.9	
Q2104-02	TR-06-052125-E2	15	1.13	10.63	11.76	10.9	91.9	

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

WORKLIST(Hardcopy Internal Chain)

JB135864

WorkList Name : %1-052125

WorkList ID : 189658

Department : Wet-Chemistry

Date : 05-21-2025 08:23:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2100-01	TP-16	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2100-02	TP-22	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2100-03	TP-21	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2100-04	TP-45	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2101-01	TP-1-MHE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2101-02	TP-1-MHE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2101-03	TP-1-MHE-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2102-01	LAW-25-0077	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/21/2025	Chemtech -SO
Q2102-02	LAW-25-0077-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/21/2025	Chemtech -SO
Q2103-01	245F59-FRONT	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2103-02	245F59-END	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2103-03	BC248114-FRONT	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2103-04	BC248114-END	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2104-01	TR-06-052125	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/21/2025	Chemtech -SO
Q2104-02	TR-06-052125-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/21/2025	Chemtech -SO

Date/Time 05/21/25 15:30

Raw Sample Received by: QA WOC

Raw Sample Relinquished by: [Signature]

Date/Time 05/21/25 17:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: QA WOC



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX: 7322257851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDM SMITH.COM
PHONE: 7325904679 FAX: 7322257851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1. 2. 3. 4. 5. 6. 7. 8. 9.
TCL VOC
TCL SVOC
TAL METALS
PCB
PESTICIDES
HERBICIDES
DRO/GRO

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-16	SOIL		X	5/19/25	1515	6	X	X	X	X	X	X	X			E
2.	TP-22	SOIL		X	5/19/25	1055	6	X	X	X	X	X	X	X			E
3.	TP-21	SOIL		X	5/20/25	0845	6	X	X	X	X	X	X	X			E
4.	TP-45	SOIL		X	5/20/25	1050	6	X	X	X	X	X	X	X			E
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 3.8 °C
1. [Signature]	5/20/25	1. [Signature] 5-20-25	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. [Signature]	5-20-25	3. [Signature]	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2100	CAMP02	Order Date : 5/20/2025 3:22:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level ^{NO} ++ Reduce
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/20/2025 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 16 95	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2100-01	TP-16	Solid	05/20/2025 05/19/2025	15:15	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-02	TP-22	Solid	05/20/2025 05/19/2025	10:55	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-03	TP-21	Solid	05/20/2025	08:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-04	TP-45	Solid	05/20/2025	10:50	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By :

Date / Time : 5/21/25 945

Received By :

Date / Time : 5-21-25 10:25

Storage Area : VOA Refridgerator Room