

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

LAB CHRONICLE

OrderID:	Q1901	OrderDate:	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	B-167-SB01	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25
Q1901-03	B-170-SB01	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25
Q1901-04	B-167-SB02	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25
Q1901-05	B-170-SB02	SOIL	TPH GC	8015D	04/26/25	04/29/25	04/29/25	04/28/25



QC SUMMARY

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Portal Partners Tri-Venture
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG015763.D	93				0
PIBLK-FG015771.D	90				0
PIBLK-FG015780.D	90				0
PB167783BL	77				0
PB167783BS	86				0
AU-6-042425MS	71				0
AU-6-042425MSD	70				0
B-167-SB01	52				0
B-170-SB01	81				0
B-167-SB02	97				0
B-170-SB02	60				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130

For Soil : 37-130

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

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture
Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901
Client SampleID : AU-6-042425MS **Datafile:** FG015776.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12085	149000	135000	-116%	*	68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture
Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901
Client SampleID : AU-6-042425MSD **Datafile:** FG015777.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12093	149000	136000	-108%	*	68-131

MS/MSD % Recovery RPD : 7

SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture
Lab Code: CHEM **Cas No:** Q1901 **SAS No :** Q1901 **SDG No:** Q1901
Matrix Spike - EPA Sample No : PB167783BS **Datafile:** FG015774.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11322	0	8212	72	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167783BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1901

SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: FG015773.D

Lab Sample ID: PB167783BL

Instrument ID: FG

Date Extracted: 04/29/2025

Matrix: (soil/water) Soil

Date Analyzed: 04/29/25

Level: (low/med) low

Time Analyzed: 19:15

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
B-167-SB01	Q1901-02	FG015766.D	04/29/25
B-170-SB01	Q1901-03	FG015767.D	04/29/25
B-167-SB02	Q1901-04	FG015768.D	04/29/25
B-170-SB02	Q1901-05	FG015769.D	04/29/25
PB167783BS	PB167783BS	FG015774.D	04/29/25
AU-6-042425MS	Q1877-01MS	FG015776.D	04/29/25
AU-6-042425MSD	Q1877-01MSD	FG015777.D	04/29/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	82.6
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015766.D	1	04/29/25 10:49	04/29/25 14:51	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	3220	J	465	3430	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	10.3		37 - 130	52%	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_G\Data\FG042925\
Data File : FG015766.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 14:51
Operator : YP\AJ
Sample : Q1901-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:18:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.999	1215176	10.321 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

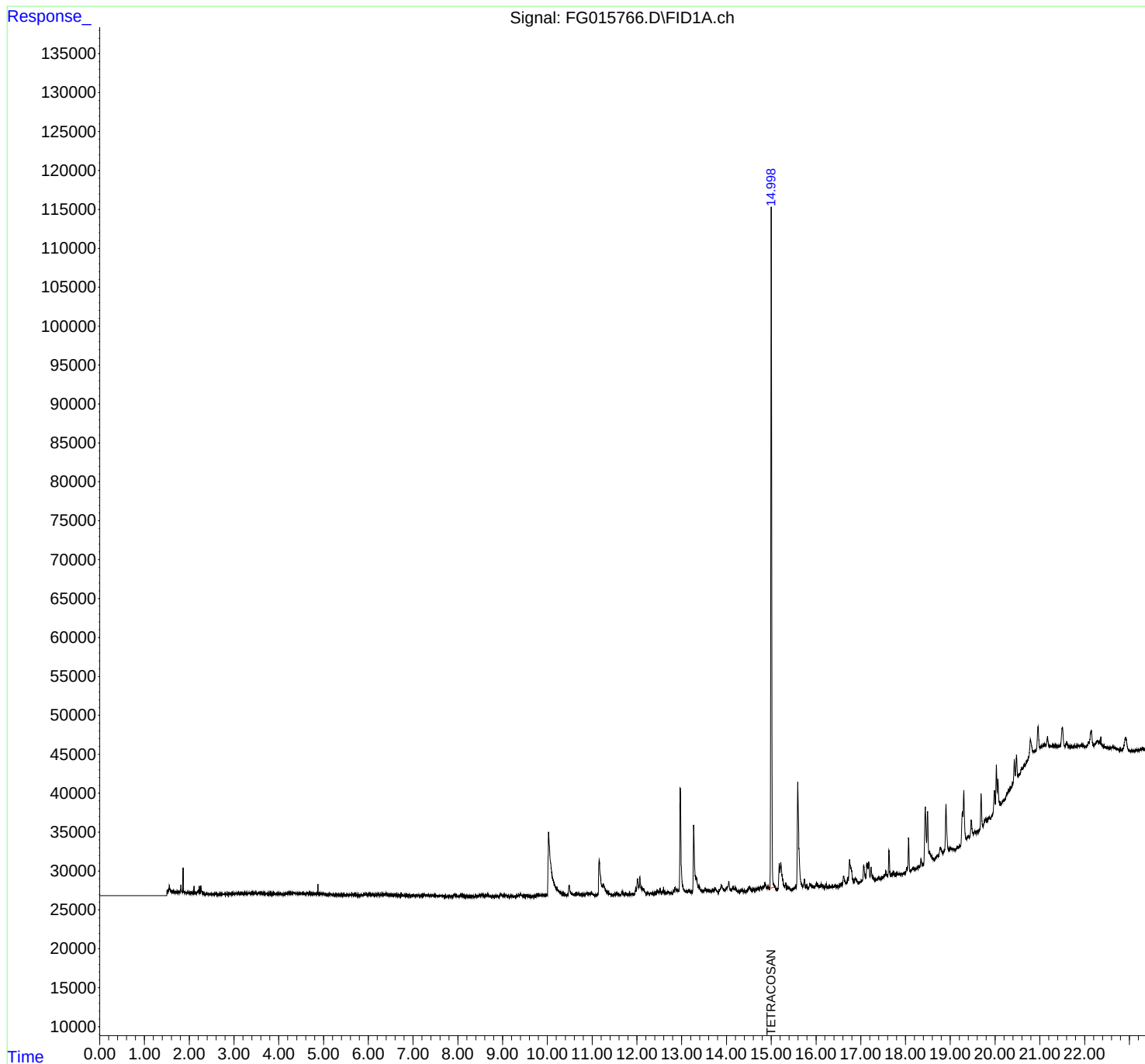
(m)=manual int.

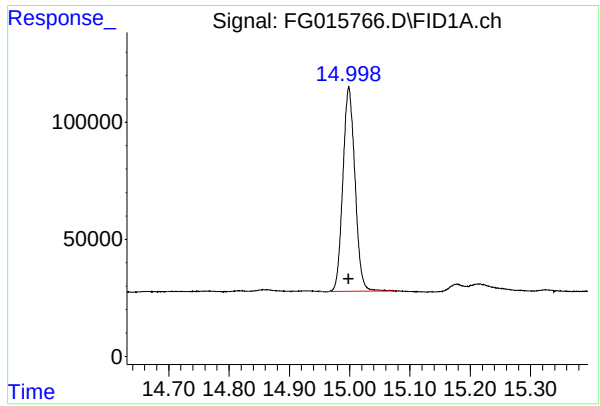
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015766.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 14:51
Operator : YP\AJ
Sample : Q1901-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:18:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.999 min
Delta R.T.: 0.000 min
Response: 1215176
Conc: 10.32 ug/ml

Instrument :
FID_G
ClientSampleId :
B-167-SB01

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015766.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 14:51
Sample : Q1901-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.915	1.900	1.931	BV	96	821	0.07%	0.008%
2	1.934	1.931	1.943	PV	147	459	0.04%	0.004%
3	1.951	1.943	1.968	VV	116	942	0.08%	0.009%
4	1.986	1.968	2.002	VV	175	2036	0.16%	0.019%
5	2.010	2.002	2.029	VV	107	1151	0.09%	0.011%
6	2.033	2.029	2.037	PV	82	249	0.02%	0.002%
7	2.054	2.037	2.086	VV	250	2463	0.20%	0.023%
8	2.092	2.086	2.104	VV	135	587	0.05%	0.005%
9	2.107	2.104	2.125	VV	858	1467	0.12%	0.013%
10	2.134	2.125	2.138	VV	92	596	0.05%	0.005%
11	2.144	2.138	2.151	VV	124	633	0.05%	0.006%
12	2.154	2.151	2.170	PV	77	867	0.07%	0.008%
13	2.193	2.170	2.222	VV	403	8343	0.67%	0.077%
14	2.224	2.222	2.238	VV	945	2048	0.16%	0.019%
15	2.240	2.238	2.247	VV	518	1175	0.09%	0.011%
16	2.260	2.247	2.295	VV	1137	14391	1.15%	0.132%
17	2.305	2.295	2.328	VV	296	3657	0.29%	0.034%
18	2.331	2.328	2.387	VV	159	2384	0.19%	0.022%
19	2.392	2.387	2.403	VV	103	609	0.05%	0.006%
20	2.406	2.403	2.423	PV	116	921	0.07%	0.008%
21	2.430	2.423	2.437	VV	105	616	0.05%	0.006%
22	2.440	2.437	2.453	VV	140	858	0.07%	0.008%
23	2.457	2.453	2.462	PV	114	472	0.04%	0.004%
24	2.470	2.462	2.473	VV	127	692	0.06%	0.006%
25	2.483	2.473	2.495	VV	169	1461	0.12%	0.013%
26	2.501	2.495	2.505	VV	186	514	0.04%	0.005%
27	2.526	2.505	2.536	VV	157	2040	0.16%	0.019%
28	2.542	2.536	2.554	VV	165	1060	0.08%	0.010%
29	2.560	2.554	2.574	PV	193	1265	0.10%	0.012%
30	2.579	2.574	2.592	VV	116	959	0.08%	0.009%
31	2.598	2.592	2.605	VV	117	721	0.06%	0.007%
32	2.609	2.605	2.615	VV	132	542	0.04%	0.005%
33	2.619	2.615	2.624	VV	145	512	0.04%	0.005%
34	2.629	2.624	2.637	VV	127	727	0.06%	0.007%
35	2.643	2.637	2.652	VV	138	855	0.07%	0.008%
36	2.669	2.652	2.683	VV	137	1651	0.13%	0.015%

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37	2.723	2.683	2.747	VV	194	4297	0.34%	0.040%
38	2.749	2.747	2.760	VV	158	835	0.07%	0.008%
39	2.766	2.760	2.772	VV	183	912	0.07%	0.008%
40	2.776	2.772	2.790	VV	158	1487	0.12%	0.014%
41	2.795	2.790	2.807	VV	167	1315	0.11%	0.012%
42	2.813	2.807	2.834	VV	170	2206	0.18%	0.020%
43	2.836	2.834	2.844	VV	189	769	0.06%	0.007%
44	2.850	2.844	2.872	VV	169	2082	0.17%	0.019%
45	2.882	2.872	2.889	VV	293	1439	0.11%	0.013%
46	2.892	2.889	2.897	VV	194	729	0.06%	0.007%
47	2.905	2.897	2.912	VV	172	1172	0.09%	0.011%
48	2.922	2.912	2.928	VV	190	1380	0.11%	0.013%
49	2.933	2.928	2.963	VV	184	2649	0.21%	0.024%
50	2.978	2.963	2.982	VV	240	1836	0.15%	0.017%
51	2.988	2.982	2.993	VV	212	1145	0.09%	0.011%
52	3.000	2.993	3.010	VV	223	1539	0.12%	0.014%
53	3.014	3.010	3.024	VV	226	1350	0.11%	0.012%
54	3.042	3.024	3.057	VV	260	4032	0.32%	0.037%
55	3.063	3.057	3.082	VV	265	3130	0.25%	0.029%
56	3.106	3.082	3.126	VV	280	5680	0.45%	0.052%
57	3.132	3.126	3.157	VV	279	4052	0.32%	0.037%
58	3.172	3.157	3.181	VV	273	3411	0.27%	0.031%
59	3.189	3.181	3.222	VV	339	6213	0.50%	0.057%
60	3.226	3.222	3.229	VV	275	1011	0.08%	0.009%
61	3.232	3.229	3.242	VV	269	1930	0.15%	0.018%
62	3.245	3.242	3.265	VV	269	3132	0.25%	0.029%
63	3.276	3.265	3.282	VV	296	2509	0.20%	0.023%
64	3.289	3.282	3.316	VV	271	4775	0.38%	0.044%
65	3.326	3.316	3.342	VV	273	3728	0.30%	0.034%
66	3.348	3.342	3.353	VV	299	1729	0.14%	0.016%
67	3.359	3.353	3.367	VV	309	2151	0.17%	0.020%
68	3.372	3.367	3.477	VV	291	16689	1.33%	0.153%
69	3.491	3.477	3.536	VV	309	9140	0.73%	0.084%
70	3.547	3.536	3.632	VV	329	15584	1.25%	0.143%
71	3.646	3.632	3.658	VV	305	4132	0.33%	0.038%
72	3.665	3.658	3.708	VV	295	7800	0.62%	0.072%
73	3.715	3.708	3.748	VV	310	5927	0.47%	0.054%
74	3.754	3.748	3.771	VV	255	3199	0.26%	0.029%
75	3.811	3.771	3.845	VV	268	9841	0.79%	0.090%
76	3.852	3.845	3.859	VV	248	2037	0.16%	0.019%
77	3.867	3.859	3.959	VV	305	12573	1.00%	0.116%
78	3.985	3.959	4.023	VV	241	7970	0.64%	0.073%
79	4.039	4.023	4.066	VV	231	5289	0.42%	0.049%
80	4.077	4.066	4.102	VV	266	4432	0.35%	0.041%
81	4.109	4.102	4.121	VV	190	2083	0.17%	0.019%
82	4.131	4.121	4.139	VV	189	2045	0.16%	0.019%
83	4.194	4.139	4.204	VV	334	10630	0.85%	0.098%
84	4.240	4.204	4.279	VV	398	14423	1.15%	0.133%
85	4.333	4.279	4.434	VV	382	28027	2.24%	0.258%
86	4.461	4.434	4.491	VV	365	9229	0.74%	0.085%
87	4.515	4.491	4.529	VV	376	6574	0.53%	0.060%
88	4.541	4.529	4.599	VV	350	11408	0.91%	0.105%
89	4.630	4.599	4.665	VV	475	12006	0.96%	0.110%

					rteres			
90	4.683	4.665	4.771	VV	346	17456	1.39%	0.160%
91	4.790	4.771	4.841	VV	316	10230	0.82%	0.094%
92	4.848	4.841	4.871	VV	263	4523	0.36%	0.042%
93	4.875	4.871	4.889	VV	806	3677	0.29%	0.034%
94	4.922	4.889	4.942	VV	297	8063	0.64%	0.074%
95	4.964	4.942	4.985	VV	283	6463	0.52%	0.059%
96	4.995	4.985	5.025	VV	268	5590	0.45%	0.051%
97	5.040	5.025	5.056	VV	232	3925	0.31%	0.036%
98	5.070	5.056	5.115	VV	224	6390	0.51%	0.059%
99	5.171	5.115	5.205	VV	251	10010	0.80%	0.092%
100	5.227	5.205	5.278	VV	209	6701	0.54%	0.062%
101	5.286	5.278	5.301	VV	171	1983	0.16%	0.018%
102	5.315	5.301	5.375	VV	162	5194	0.41%	0.048%
103	5.382	5.375	5.440	VV	168	4162	0.33%	0.038%
104	5.487	5.440	5.541	VV	191	7589	0.61%	0.070%
105	5.557	5.541	5.701	VV	193	13315	1.06%	0.122%
106	5.714	5.701	5.755	VV	178	3869	0.31%	0.036%
107	5.760	5.755	5.788	VV	171	2310	0.18%	0.021%
108	5.821	5.788	5.868	VV	163	5777	0.46%	0.053%
109	5.961	5.868	6.018	VV	274	17683	1.41%	0.163%
110	6.094	6.018	6.150	VV	232	14408	1.15%	0.132%
111	6.175	6.150	6.201	VV	209	5271	0.42%	0.048%
112	6.221	6.201	6.274	VV	232	8448	0.67%	0.078%
113	6.397	6.274	6.543	VV	397	32990	2.64%	0.303%
114	6.575	6.543	6.648	VV	165	9410	0.75%	0.087%
115	6.687	6.648	6.863	VV	185	17946	1.43%	0.165%
116	6.874	6.863	6.944	VV	143	4578	0.37%	0.042%
117	6.998	6.944	7.068	VV	189	9951	0.79%	0.091%
118	7.097	7.068	7.124	VV	155	3874	0.31%	0.036%
119	7.167	7.124	7.201	VV	180	5549	0.44%	0.051%
120	7.262	7.201	7.361	VV	213	14590	1.17%	0.134%
121	7.374	7.361	7.567	VV	179	15637	1.25%	0.144%
122	7.584	7.567	7.615	VV	146	3282	0.26%	0.030%
123	7.624	7.615	7.701	VV	118	5249	0.42%	0.048%
124	7.724	7.701	7.764	VV	85	2327	0.19%	0.021%
125	7.773	7.764	7.789	VV	70	776	0.06%	0.007%
126	7.851	7.789	7.882	VV	96	2959	0.24%	0.027%
127	7.920	7.882	7.985	VV	330	8996	0.72%	0.083%
128	8.059	7.985	8.078	VV	218	7419	0.59%	0.068%
129	8.092	8.078	8.172	VV	320	7938	0.63%	0.073%
130	8.205	8.172	8.246	VV	103	2808	0.22%	0.026%
131	8.316	8.246	8.358	PV	120	4844	0.39%	0.045%
132	8.416	8.358	8.444	VV	140	3716	0.30%	0.034%
133	8.560	8.444	8.618	VV	353	18214	1.46%	0.167%
134	8.666	8.618	8.724	VV	336	12039	0.96%	0.111%
135	8.754	8.724	8.833	VV	139	5703	0.46%	0.052%
136	8.879	8.833	8.928	VV	194	5545	0.44%	0.051%
137	8.955	8.928	9.015	VV	377	12124	0.97%	0.111%
138	9.030	9.015	9.049	VV	194	3949	0.32%	0.036%
139	9.065	9.049	9.106	VV	217	5517	0.44%	0.051%
140	9.131	9.106	9.157	VV	112	2677	0.21%	0.025%
141	9.185	9.157	9.241	VV	171	4950	0.40%	0.046%

					rteres			
142	9.397	9.241	9.496	VV	346	23985	1.92%	0.220%
143	9.535	9.496	9.631	VV	260	9479	0.76%	0.087%
144	9.649	9.631	9.665	PV	83	1339	0.11%	0.012%
145	9.683	9.665	9.738	VV	90	2654	0.21%	0.024%
146	9.772	9.738	9.866	VV	286	16795	1.34%	0.154%
147	9.899	9.866	9.935	VV	316	9766	0.78%	0.090%
148	9.963	9.935	9.983	VV	420	6965	0.56%	0.064%
149	10.031	9.983	10.447	VV	8057	465980	37.23%	4.284%
150	10.487	10.447	10.588	VV	1403	43370	3.46%	0.399%
151	10.646	10.588	10.678	VV	295	13820	1.10%	0.127%
152	10.693	10.678	10.725	VV	380	7617	0.61%	0.070%
153	10.750	10.725	10.831	VV	255	12730	1.02%	0.117%
154	10.884	10.831	10.931	VV	385	17640	1.41%	0.162%
155	10.980	10.931	11.088	VV	389	23063	1.84%	0.212%
156	11.159	11.088	11.224	VV	4593	139484	11.14%	1.282%
157	11.249	11.224	11.491	VV	1510	84565	6.76%	0.777%
158	11.580	11.491	11.641	VV	295	14348	1.15%	0.132%
159	11.666	11.641	11.719	PV	468	11957	0.96%	0.110%
160	11.743	11.719	11.821	VV	321	8587	0.69%	0.079%
161	11.898	11.821	11.940	VV	237	7338	0.59%	0.067%
162	12.013	11.940	12.042	VV	2003	58646	4.69%	0.539%
163	12.065	12.042	12.125	VV	2323	60777	4.86%	0.559%
164	12.142	12.125	12.214	VV	817	24618	1.97%	0.226%
165	12.251	12.214	12.281	VV	273	6442	0.51%	0.059%
166	12.347	12.281	12.372	VV	284	9210	0.74%	0.085%
167	12.407	12.372	12.427	VV	202	5022	0.40%	0.046%
168	12.456	12.427	12.491	VV	590	11642	0.93%	0.107%
169	12.509	12.491	12.555	VV	775	14618	1.17%	0.134%
170	12.603	12.555	12.662	VV	478	18452	1.47%	0.170%
171	12.696	12.662	12.738	VV	290	9737	0.78%	0.090%
172	12.755	12.738	12.791	VV	198	4533	0.36%	0.042%
173	12.852	12.791	12.875	VV	789	21812	1.74%	0.201%
174	12.894	12.875	12.935	VV	572	16055	1.28%	0.148%
175	12.969	12.935	13.123	VV	13565	275231	21.99%	2.530%
176	13.160	13.123	13.233	VV	488	17595	1.41%	0.162%
177	13.268	13.233	13.367	VV	8484	219442	17.53%	2.017%
178	13.384	13.367	13.451	VV	858	29907	2.39%	0.275%
179	13.471	13.451	13.490	VV	349	7240	0.58%	0.067%
180	13.519	13.490	13.554	VV	513	14319	1.14%	0.132%
181	13.576	13.554	13.658	VV	463	19154	1.53%	0.176%
182	13.693	13.658	13.717	VV	432	9902	0.79%	0.091%
183	13.749	13.717	13.825	VV	630	20391	1.63%	0.187%
184	13.888	13.825	13.965	VV	958	40212	3.21%	0.370%
185	14.050	13.965	14.111	VV	1404	52317	4.18%	0.481%
186	14.147	14.111	14.181	VV	715	19956	1.59%	0.183%
187	14.201	14.181	14.284	VV	559	15709	1.26%	0.144%
188	14.354	14.284	14.438	PV	260	11370	0.91%	0.105%
189	14.462	14.438	14.478	VV	242	3999	0.32%	0.037%
190	14.509	14.478	14.559	VV	600	18542	1.48%	0.170%
191	14.610	14.559	14.639	VV	264	10598	0.85%	0.097%
192	14.665	14.639	14.684	VV	364	7081	0.57%	0.065%
193	14.714	14.684	14.735	VV	381	10227	0.82%	0.094%
194	14.764	14.735	14.790	VV	527	13558	1.08%	0.125%

					rteres			
195	14.860	14.790	14.908	VV	1070	42508	3.40%	0.391%
196	14.928	14.908	14.961	VV	528	13902	1.11%	0.128%
197	14.999	14.961	15.128	VV	87023	1251738	100.00%	11.507%
198	15.179	15.128	15.194	VV	3350	56728	4.53%	0.521%
199	15.214	15.194	15.305	VV	3425	116688	9.32%	1.073%
200	15.325	15.305	15.377	VV	935	22144	1.77%	0.204%
201	15.401	15.377	15.455	VV	358	8524	0.68%	0.078%
202	15.539	15.455	15.558	PV	356	11973	0.96%	0.110%
203	15.593	15.558	15.708	VV	13507	339250	27.10%	3.119%
204	15.742	15.708	15.771	VV	1310	27049	2.16%	0.249%
205	15.790	15.771	15.831	VV	512	9398	0.75%	0.086%
206	15.862	15.831	15.967	VV	661	28618	2.29%	0.263%
207	16.019	15.967	16.088	VV	582	25670	2.05%	0.236%
208	16.119	16.088	16.181	VV	487	16537	1.32%	0.152%
209	16.229	16.181	16.265	VV	522	10258	0.82%	0.094%
210	16.365	16.265	16.393	PV	193	8336	0.67%	0.077%
211	16.456	16.393	16.488	PV	155	6176	0.49%	0.057%
212	16.618	16.488	16.684	PV	1292	48295	3.86%	0.444%
213	16.750	16.684	16.851	VV	3301	135288	10.81%	1.244%
214	16.876	16.851	16.965	VV	694	24558	1.96%	0.226%
215	17.068	16.965	17.107	VV	2247	57265	4.57%	0.526%
216	17.142	17.107	17.160	VV	2340	50753	4.05%	0.467%
217	17.178	17.160	17.206	VV	2445	46112	3.68%	0.424%
218	17.229	17.206	17.345	VV	1745	46281	3.70%	0.425%
219	17.408	17.345	17.458	VV	253	10507	0.84%	0.097%
220	17.560	17.458	17.597	PV	689	29960	2.39%	0.275%
221	17.631	17.597	17.698	VV	3479	60738	4.85%	0.558%
222	17.729	17.698	17.771	VV	624	14735	1.18%	0.135%
223	17.816	17.771	17.890	VV	261	12518	1.00%	0.115%
224	17.955	17.890	17.985	PV	143	5236	0.42%	0.048%
225	18.068	17.985	18.118	PV	4358	76347	6.10%	0.702%
226	18.162	18.118	18.195	VV	415	8524	0.68%	0.078%
227	18.296	18.195	18.313	VV	257	6620	0.53%	0.061%
228	18.346	18.313	18.376	PV	1019	17769	1.42%	0.163%
229	18.441	18.376	18.470	VV	7358	162004	12.94%	1.489%
230	18.492	18.470	18.647	VV	6673	171920	13.73%	1.580%
231	18.705	18.647	18.727	VV	406	11615	0.93%	0.107%
232	18.777	18.727	18.834	VV	1146	43778	3.50%	0.402%
233	18.903	18.834	18.978	VV	6361	148378	11.85%	1.364%
234	19.011	18.978	19.098	VV	495	19982	1.60%	0.184%
235	19.163	19.098	19.181	PV	211	3468	0.28%	0.032%
236	19.301	19.181	19.355	PV	6900	207673	16.59%	1.909%
237	19.403	19.355	19.431	VV	486	18758	1.50%	0.172%
238	19.469	19.431	19.521	VV	2253	52051	4.16%	0.478%
239	19.548	19.521	19.575	VV	533	11601	0.93%	0.107%
240	19.596	19.575	19.615	VV	349	5892	0.47%	0.054%
241	19.689	19.615	19.725	VV	4721	83660	6.68%	0.769%
242	19.793	19.725	19.816	VV	994	41034	3.28%	0.377%
243	19.868	19.816	19.898	VV	856	37066	2.96%	0.341%
244	19.986	19.898	20.005	VV	3830	108942	8.70%	1.001%
245	20.030	20.005	20.048	VV	6893	117245	9.37%	1.078%
246	20.064	20.048	20.128	VV	4986	131222	10.48%	1.206%

						rteres		
247	20.431	20.128	20.452	VV	5861	485897	38.82%	4.467%
248	20.479	20.452	20.518	VV	6175	180606	14.43%	1.660%
249	20.591	20.518	20.615	VV	4158	214311	17.12%	1.970%
250	20.792	20.615	20.851	VV	6908	701057	56.01%	6.445%
251	20.892	20.851	20.918	VV	5092	201176	16.07%	1.849%
252	20.959	20.918	21.003	VV	7872	311056	24.85%	2.860%
253	21.085	21.003	21.138	VV	4996	397654	31.77%	3.656%
254	21.170	21.138	21.227	VV	5645	254623	20.34%	2.341%
255	21.310	21.227	21.385	VV	3903	363955	29.08%	3.346%
256	21.406	21.385	21.438	VV	3401	108172	8.64%	0.994%
257	21.504	21.438	21.560	VV	5409	280083	22.38%	2.575%
258	21.599	21.560	21.763	VV	3113	286834	22.91%	2.637%
259	21.783	21.763	21.815	VV	1769	52468	4.19%	0.482%
260	21.916	21.815	21.941	VV	1317	105791	8.45%	0.973%
261	21.953	21.941	22.041	VV	1173	51643	4.13%	0.475%
262	22.146	22.041	22.201	VBA	2217	114534	9.15%	1.053%
						Sum of corrected areas:		10877953

FG042425.M Wed Apr 30 02:08:31 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	83
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015767.D	1	04/29/25 10:49	04/29/25 15:20	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	51300		461	3410	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.2		37 - 130	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_G\Data\FG042925\
Data File : FG015767.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:20
Operator : YP\AJ
Sample : Q1901-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.000	1910629	16.228 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

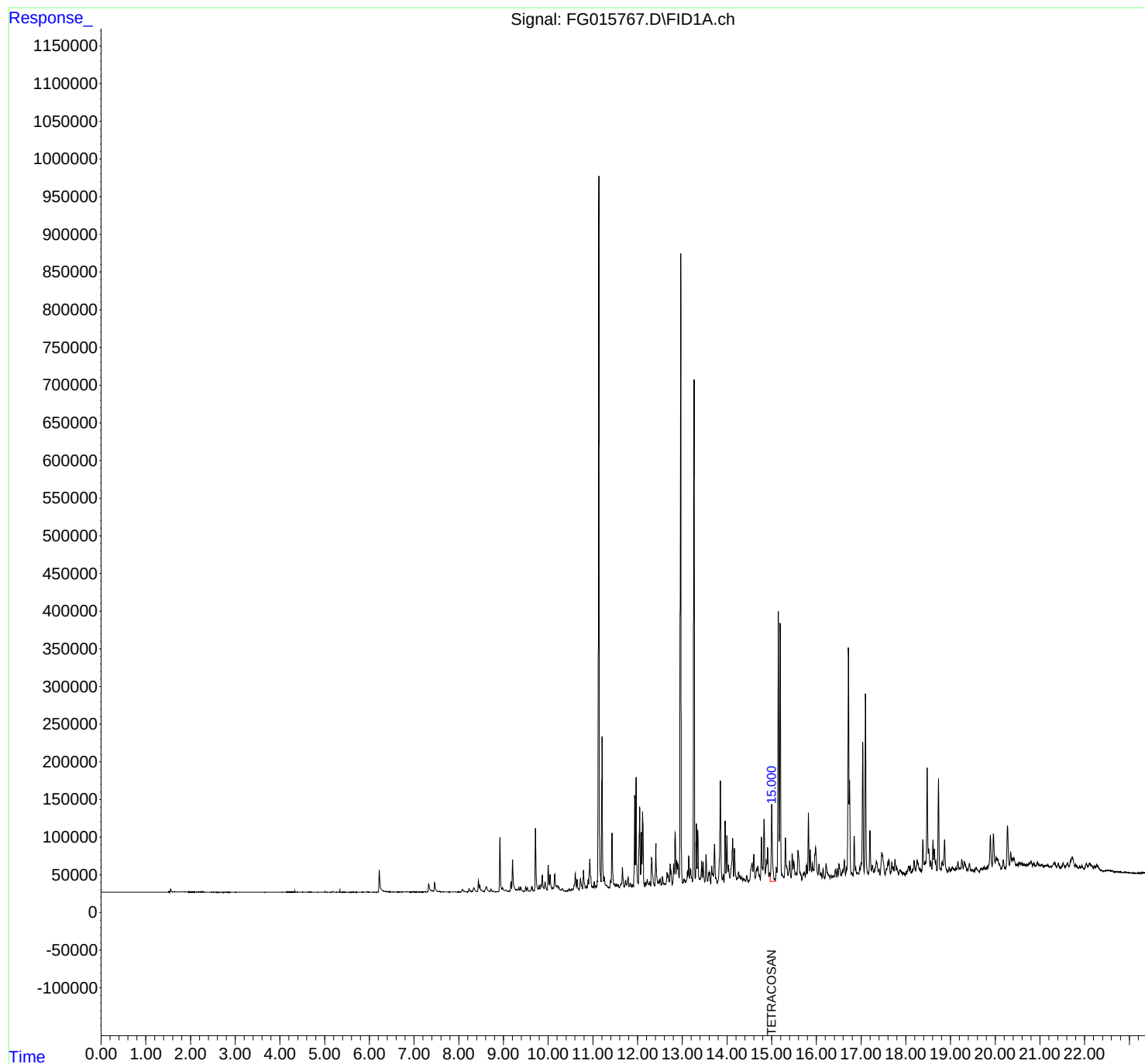
(m)=manual int.

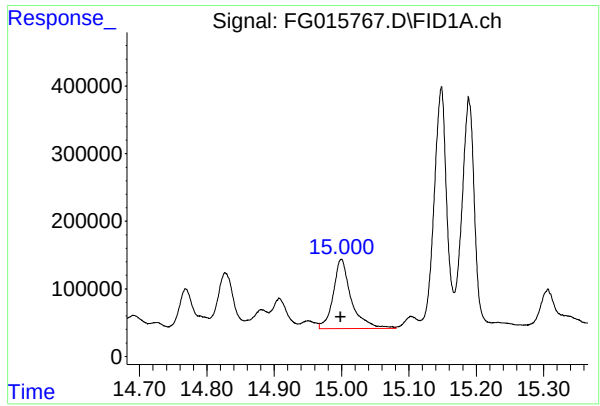
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015767.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:20
Operator : YP\AJ
Sample : Q1901-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB01

Integration File: autoint1.e
Quant Time: Apr 30 01:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.000 min
Delta R.T.: 0.001 min
Response: 1910629
Conc: 16.23 ug/ml

Instrument :
FID_G
ClientSampleId :
B-170-SB01

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015767.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 15:20
 Sample : Q1901-03
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.913	1.900	1.942	BV	53	233	0.00%	0.000%
2	1.946	1.942	1.957	VV	118	599	0.01%	0.000%
3	1.964	1.957	1.973	PV	548	1230	0.01%	0.001%
4	1.979	1.973	1.998	VV	196	1540	0.01%	0.001%
5	2.002	1.998	2.009	VV	115	583	0.01%	0.000%
6	2.014	2.009	2.019	VV	93	397	0.00%	0.000%
7	2.046	2.019	2.051	VV	173	1619	0.01%	0.001%
8	2.057	2.051	2.087	VV	247	2389	0.02%	0.002%
9	2.091	2.087	2.095	VV	153	360	0.00%	0.000%
10	2.098	2.095	2.113	VV	111	616	0.01%	0.000%
11	2.115	2.113	2.121	VV	76	191	0.00%	0.000%
12	2.124	2.121	2.133	VV	67	375	0.00%	0.000%
13	2.136	2.133	2.152	VV	117	703	0.01%	0.000%
14	2.158	2.152	2.170	VV	49	667	0.01%	0.000%
15	2.196	2.170	2.227	VV	487	8967	0.08%	0.006%
16	2.232	2.227	2.244	VV	224	1776	0.02%	0.001%
17	2.261	2.244	2.294	VV	1163	16711	0.15%	0.011%
18	2.298	2.294	2.323	VV	276	2985	0.03%	0.002%
19	2.327	2.323	2.343	VV	94	970	0.01%	0.001%
20	2.385	2.343	2.392	PV	146	1973	0.02%	0.001%
21	2.394	2.392	2.412	VV	126	908	0.01%	0.001%
22	2.419	2.412	2.435	VV	110	850	0.01%	0.001%
23	2.441	2.435	2.451	VV	93	689	0.01%	0.000%
24	2.456	2.451	2.465	VV	155	644	0.01%	0.000%
25	2.470	2.465	2.478	PV	124	516	0.00%	0.000%
26	2.485	2.478	2.497	VV	157	899	0.01%	0.001%
27	2.504	2.497	2.514	VV	112	902	0.01%	0.001%
28	2.523	2.514	2.536	VV	200	1510	0.01%	0.001%
29	2.547	2.536	2.580	VV	165	2651	0.02%	0.002%
30	2.585	2.580	2.594	VV	108	699	0.01%	0.000%
31	2.598	2.594	2.623	VV	97	1025	0.01%	0.001%
32	2.641	2.623	2.652	VV	153	1337	0.01%	0.001%
33	2.660	2.652	2.670	VV	180	1130	0.01%	0.001%
34	2.676	2.670	2.680	VV	145	640	0.01%	0.000%
35	2.684	2.680	2.699	VV	165	1173	0.01%	0.001%
36	2.715	2.699	2.722	VV	138	1210	0.01%	0.001%

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37	2.727	2.722	2.736	VV	121	612	0.01%	0.000%
38	2.740	2.736	2.751	VV	117	624	0.01%	0.000%
39	2.756	2.751	2.766	VV	72	679	0.01%	0.000%
40	2.769	2.766	2.784	VV	128	925	0.01%	0.001%
41	2.793	2.784	2.807	VV	124	1174	0.01%	0.001%
42	2.814	2.807	2.822	VV	167	1098	0.01%	0.001%
43	2.828	2.822	2.841	VV	116	902	0.01%	0.001%
44	2.845	2.841	2.850	VV	100	335	0.00%	0.000%
45	2.857	2.850	2.872	VV	117	936	0.01%	0.001%
46	2.875	2.872	2.883	VV	130	534	0.00%	0.000%
47	2.891	2.883	2.902	VV	167	1068	0.01%	0.001%
48	2.905	2.902	2.914	VV	111	715	0.01%	0.000%
49	2.917	2.914	2.925	VV	176	686	0.01%	0.000%
50	2.933	2.925	2.982	VV	221	4594	0.04%	0.003%
51	2.985	2.982	3.006	VV	172	1658	0.01%	0.001%
52	3.009	3.006	3.015	VV	94	515	0.00%	0.000%
53	3.050	3.015	3.062	VV	203	4298	0.04%	0.003%
54	3.071	3.062	3.082	VV	182	1740	0.02%	0.001%
55	3.108	3.082	3.118	VV	220	3283	0.03%	0.002%
56	3.127	3.118	3.140	VV	175	1774	0.02%	0.001%
57	3.145	3.140	3.154	VV	197	1081	0.01%	0.001%
58	3.163	3.154	3.177	VV	198	2171	0.02%	0.001%
59	3.182	3.177	3.188	VV	210	1070	0.01%	0.001%
60	3.196	3.188	3.215	VV	209	2667	0.02%	0.002%
61	3.221	3.215	3.228	VV	204	1446	0.01%	0.001%
62	3.246	3.228	3.277	VV	276	5879	0.05%	0.004%
63	3.282	3.277	3.296	VV	216	2134	0.02%	0.001%
64	3.305	3.296	3.334	VV	226	3880	0.03%	0.002%
65	3.340	3.334	3.345	VV	208	1139	0.01%	0.001%
66	3.352	3.345	3.364	VV	236	2190	0.02%	0.001%
67	3.367	3.364	3.376	VV	258	1479	0.01%	0.001%
68	3.385	3.376	3.406	VV	225	2868	0.03%	0.002%
69	3.410	3.406	3.421	VV	178	1419	0.01%	0.001%
70	3.435	3.421	3.446	VV	207	2567	0.02%	0.002%
71	3.465	3.446	3.469	VV	220	2418	0.02%	0.002%
72	3.477	3.469	3.508	VV	208	4037	0.04%	0.003%
73	3.514	3.508	3.518	VV	198	831	0.01%	0.001%
74	3.533	3.518	3.537	VV	228	1948	0.02%	0.001%
75	3.549	3.537	3.556	VV	229	2195	0.02%	0.001%
76	3.567	3.556	3.571	VV	219	1659	0.01%	0.001%
77	3.595	3.571	3.622	VV	261	5996	0.05%	0.004%
78	3.633	3.622	3.642	VV	201	1945	0.02%	0.001%
79	3.647	3.642	3.677	VV	189	2913	0.03%	0.002%
80	3.683	3.677	3.689	VV	215	1122	0.01%	0.001%
81	3.699	3.689	3.704	VV	204	1606	0.01%	0.001%
82	3.712	3.704	3.722	VV	188	1569	0.01%	0.001%
83	3.725	3.722	3.730	VV	188	701	0.01%	0.000%
84	3.741	3.730	3.760	VV	205	2833	0.02%	0.002%
85	3.764	3.760	3.803	VV	202	3933	0.03%	0.003%
86	3.807	3.803	3.822	VV	178	1512	0.01%	0.001%
87	3.846	3.822	3.851	VV	225	2947	0.03%	0.002%
88	3.857	3.851	3.901	VV	231	5458	0.05%	0.003%
89	3.913	3.901	3.919	VV	165	1478	0.01%	0.001%

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90	3.924	3.919	3.929	VV	171	839	0.01%	0.001%
91	3.937	3.929	3.955	VV	177	2632	0.02%	0.002%
92	3.959	3.955	3.997	VV	199	3854	0.03%	0.002%
93	4.002	3.997	4.007	VV	136	718	0.01%	0.000%
94	4.009	4.007	4.014	VV	165	516	0.00%	0.000%
95	4.019	4.014	4.023	VV	154	649	0.01%	0.000%
96	4.025	4.023	4.029	VV	126	413	0.00%	0.000%
97	4.041	4.029	4.057	VV	181	2259	0.02%	0.001%
98	4.082	4.057	4.102	VV	223	3730	0.03%	0.002%
99	4.104	4.102	4.110	VV	181	666	0.01%	0.000%
100	4.116	4.110	4.120	VV	136	794	0.01%	0.001%
101	4.174	4.120	4.195	VV	374	13209	0.12%	0.008%
102	4.210	4.195	4.217	VV	376	4252	0.04%	0.003%
103	4.243	4.217	4.312	VV	415	20061	0.18%	0.013%
104	4.316	4.312	4.323	VV	399	2156	0.02%	0.001%
105	4.332	4.323	4.360	VV	985	7965	0.07%	0.005%
106	4.373	4.360	4.415	VV	338	8851	0.08%	0.006%
107	4.456	4.415	4.488	VV	304	10804	0.09%	0.007%
108	4.506	4.488	4.540	VV	352	9152	0.08%	0.006%
109	4.549	4.540	4.568	VV	313	4646	0.04%	0.003%
110	4.580	4.568	4.604	VV	289	5158	0.05%	0.003%
111	4.627	4.604	4.645	VV	294	5765	0.05%	0.004%
112	4.670	4.645	4.739	VV	606	19945	0.17%	0.013%
113	4.763	4.739	4.774	VV	267	4848	0.04%	0.003%
114	4.793	4.774	4.813	VV	274	4766	0.04%	0.003%
115	4.818	4.813	4.825	VV	226	1311	0.01%	0.001%
116	4.832	4.825	4.845	VV	250	2112	0.02%	0.001%
117	4.849	4.845	4.886	VV	247	4799	0.04%	0.003%
118	4.900	4.886	4.914	VV	241	3253	0.03%	0.002%
119	4.921	4.914	4.931	VV	249	2417	0.02%	0.002%
120	4.943	4.931	4.960	VV	217	3607	0.03%	0.002%
121	5.014	4.960	5.057	VV	553	14068	0.12%	0.009%
122	5.070	5.057	5.124	VV	231	6646	0.06%	0.004%
123	5.131	5.124	5.145	VV	188	1631	0.01%	0.001%
124	5.174	5.145	5.241	VV	949	24604	0.22%	0.016%
125	5.267	5.241	5.290	VV	387	8298	0.07%	0.005%
126	5.302	5.290	5.317	VV	266	3419	0.03%	0.002%
127	5.339	5.317	5.361	VV	2142	7013	0.06%	0.004%
128	5.375	5.361	5.421	VV	230	5227	0.05%	0.003%
129	5.430	5.421	5.460	VV	131	2699	0.02%	0.002%
130	5.488	5.460	5.556	VV	309	10831	0.10%	0.007%
131	5.567	5.556	5.589	VV	187	2497	0.02%	0.002%
132	5.607	5.589	5.625	VV	160	2565	0.02%	0.002%
133	5.654	5.625	5.712	VV	406	10131	0.09%	0.006%
134	5.767	5.712	5.782	PV	283	7551	0.07%	0.005%
135	5.809	5.782	5.822	VV	376	7054	0.06%	0.004%
136	5.846	5.822	5.885	VV	464	12811	0.11%	0.008%
137	5.944	5.885	5.989	VV	851	23813	0.21%	0.015%
138	5.998	5.989	6.029	VV	318	6340	0.06%	0.004%
139	6.038	6.029	6.095	VV	302	6479	0.06%	0.004%
140	6.126	6.095	6.147	VV	179	3296	0.03%	0.002%
141	6.187	6.147	6.197	VV	198	3750	0.03%	0.002%

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142	6.224	6.197	6.387	VV	28953	584469	5.13%	0.372%
143	6.400	6.387	6.440	VV	1004	24995	0.22%	0.016%
144	6.449	6.440	6.537	VV	646	27197	0.24%	0.017%
145	6.571	6.537	6.664	VV	539	25762	0.23%	0.016%
146	6.687	6.664	6.717	VV	464	10522	0.09%	0.007%
147	6.774	6.717	6.794	VV	399	15564	0.14%	0.010%
148	6.805	6.794	6.820	VV	469	6898	0.06%	0.004%
149	6.840	6.820	6.931	VV	574	23168	0.20%	0.015%
150	6.941	6.931	6.950	VV	241	2638	0.02%	0.002%
151	6.972	6.950	6.997	VV	516	8570	0.08%	0.005%
152	7.008	6.997	7.038	VV	281	5351	0.05%	0.003%
153	7.049	7.038	7.060	VV	192	2211	0.02%	0.001%
154	7.091	7.060	7.127	VV	432	9488	0.08%	0.006%
155	7.139	7.127	7.163	VV	335	4954	0.04%	0.003%
156	7.182	7.163	7.191	VV	174	2291	0.02%	0.001%
157	7.258	7.191	7.286	VV	527	17844	0.16%	0.011%
158	7.330	7.286	7.437	VV	11267	284293	2.49%	0.181%
159	7.462	7.437	7.567	VV	12554	255047	2.24%	0.162%
160	7.572	7.567	7.620	VV	668	15698	0.14%	0.010%
161	7.637	7.620	7.685	VV	737	16280	0.14%	0.010%
162	7.692	7.685	7.701	VV	272	2147	0.02%	0.001%
163	7.716	7.701	7.784	VV	311	8774	0.08%	0.006%
164	7.812	7.784	7.845	VV	247	5467	0.05%	0.003%
165	7.863	7.845	7.889	VV	233	4516	0.04%	0.003%
166	7.917	7.889	7.944	VV	518	8700	0.08%	0.006%
167	7.957	7.944	7.965	VV	132	1407	0.01%	0.001%
168	7.973	7.965	7.987	VV	107	992	0.01%	0.001%
169	8.012	7.987	8.037	PV	129	2669	0.02%	0.002%
170	8.083	8.037	8.159	VV	3356	89798	0.79%	0.057%
171	8.167	8.159	8.204	VV	489	10796	0.09%	0.007%
172	8.232	8.204	8.307	VV	4326	102419	0.90%	0.065%
173	8.342	8.307	8.412	VV	5611	154121	1.35%	0.098%
174	8.443	8.412	8.460	VV	15073	193950	1.70%	0.123%
175	8.473	8.460	8.507	VV	8836	149462	1.31%	0.095%
176	8.518	8.507	8.565	VV	2325	46932	0.41%	0.030%
177	8.618	8.565	8.699	VV	6795	224054	1.97%	0.143%
178	8.722	8.699	8.754	VV	4060	65408	0.57%	0.042%
179	8.768	8.754	8.838	VV	1453	29229	0.26%	0.019%
180	8.877	8.838	8.892	PV	587	10475	0.09%	0.007%
181	8.923	8.892	8.965	VV	72835	909043	7.97%	0.578%
182	8.981	8.965	9.026	VV	5834	125849	1.10%	0.080%
183	9.055	9.026	9.106	VV	2644	75589	0.66%	0.048%
184	9.118	9.106	9.135	VV	1057	14760	0.13%	0.009%
185	9.170	9.135	9.185	VV	13208	170352	1.49%	0.108%
186	9.206	9.185	9.283	VV	42480	734516	6.44%	0.467%
187	9.299	9.283	9.324	VV	3399	64716	0.57%	0.041%
188	9.344	9.324	9.367	VV	5827	89555	0.79%	0.057%
189	9.385	9.367	9.470	VV	6302	126334	1.11%	0.080%
190	9.499	9.470	9.518	VV	6403	80321	0.70%	0.051%
191	9.535	9.518	9.572	VV	5409	80706	0.71%	0.051%
192	9.589	9.572	9.597	VV	839	10210	0.09%	0.006%
193	9.635	9.597	9.663	VV	7015	121330	1.06%	0.077%
194	9.678	9.663	9.692	VV	1434	19859	0.17%	0.013%

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195	9.718	9.692	9.777	VV	83805	1182305	10.37%	0.752%
196	9.798	9.777	9.817	VV	8185	124584	1.09%	0.079%
197	9.841	9.817	9.851	VV	9313	124773	1.09%	0.079%
198	9.870	9.851	9.910	VV	21473	378478	3.32%	0.241%
199	9.932	9.910	9.978	VV	12542	252509	2.21%	0.161%
200	10.003	9.978	10.028	VV	34216	483162	4.24%	0.307%
201	10.045	10.028	10.084	VV	22574	377443	3.31%	0.240%
202	10.097	10.084	10.115	VV	5119	79809	0.70%	0.051%
203	10.149	10.115	10.177	VV	22230	411938	3.61%	0.262%
204	10.186	10.177	10.195	VV	6843	70101	0.61%	0.045%
205	10.206	10.195	10.224	VV	7424	109656	0.96%	0.070%
206	10.237	10.224	10.277	VV	5670	110507	0.97%	0.070%
207	10.317	10.277	10.389	VV	3728	94646	0.83%	0.060%
208	10.423	10.389	10.447	PV	467	10526	0.09%	0.007%
209	10.470	10.447	10.504	VV	3139	44644	0.39%	0.028%
210	10.524	10.504	10.556	VV	2757	51846	0.45%	0.033%
211	10.609	10.556	10.632	VV	23007	449903	3.95%	0.286%
212	10.649	10.632	10.687	VV	14681	228398	2.00%	0.145%
213	10.724	10.687	10.768	VV	15775	331115	2.90%	0.211%
214	10.791	10.768	10.837	VV	26319	468829	4.11%	0.298%
215	10.859	10.837	10.873	VV	5950	90751	0.80%	0.058%
216	10.895	10.873	10.907	VV	13932	178518	1.57%	0.114%
217	10.932	10.907	10.989	VV	41477	879857	7.72%	0.560%
218	11.001	10.989	11.014	VV	4944	65379	0.57%	0.042%
219	11.032	11.014	11.048	VV	10790	135385	1.19%	0.086%
220	11.062	11.048	11.081	VV	5515	86796	0.76%	0.055%
221	11.135	11.081	11.182	VV	946890	11400932	100.00%	7.252%
222	11.206	11.182	11.240	VV	203083	2595463	22.77%	1.651%
223	11.255	11.240	11.287	VV	16471	311437	2.73%	0.198%
224	11.299	11.287	11.340	VV	5684	140531	1.23%	0.089%
225	11.347	11.340	11.367	VV	3050	39163	0.34%	0.025%
226	11.398	11.367	11.408	VV	12530	167594	1.47%	0.107%
227	11.429	11.408	11.470	VV	74464	1104103	9.68%	0.702%
228	11.478	11.470	11.512	VV	6832	135026	1.18%	0.086%
229	11.527	11.512	11.547	VV	6844	107023	0.94%	0.068%
230	11.563	11.547	11.590	VV	5285	99372	0.87%	0.063%
231	11.663	11.590	11.702	VV	28062	615368	5.40%	0.391%
232	11.731	11.702	11.752	VV	10731	183204	1.61%	0.117%
233	11.787	11.752	11.814	VV	14360	273278	2.40%	0.174%
234	11.836	11.814	11.853	VV	7109	113086	0.99%	0.072%
235	11.865	11.853	11.880	VV	4552	56128	0.49%	0.036%
236	11.895	11.880	11.909	VV	4670	57478	0.50%	0.037%
237	11.935	11.909	11.950	VV	122787	1380672	12.11%	0.878%
238	11.966	11.950	12.012	VV	146935	1876669	16.46%	1.194%
239	12.047	12.012	12.067	VV	106823	1718882	15.08%	1.093%
240	12.085	12.067	12.098	VV	74286	884258	7.76%	0.562%
241	12.115	12.098	12.159	VV	100124	1409638	12.36%	0.897%
242	12.176	12.159	12.192	VV	7054	90120	0.79%	0.057%
243	12.214	12.192	12.255	VV	10891	248306	2.18%	0.158%
244	12.273	12.255	12.292	VV	8039	120626	1.06%	0.077%
245	12.315	12.292	12.384	VV	38929	793324	6.96%	0.505%
246	12.408	12.384	12.457	VV	58325	868393	7.62%	0.552%

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247	12.475	12.457	12.492	VV	7877	138567	1.22%	0.088%
248	12.507	12.492	12.527	VV	11182	142637	1.25%	0.091%
249	12.556	12.527	12.582	VV	13649	228366	2.00%	0.145%
250	12.610	12.582	12.627	VV	4079	102580	0.90%	0.065%
251	12.661	12.627	12.675	VV	18924	307055	2.69%	0.195%
252	12.684	12.675	12.710	VV	15810	233461	2.05%	0.149%
253	12.730	12.710	12.772	VV	29464	573700	5.03%	0.365%
254	12.806	12.772	12.820	VV	30025	424417	3.72%	0.270%
255	12.840	12.820	12.860	VV	71026	985341	8.64%	0.627%
256	12.876	12.860	12.894	VV	33466	544001	4.77%	0.346%
257	12.905	12.894	12.930	VV	29372	473256	4.15%	0.301%
258	12.964	12.930	13.014	VV	827232	10283905	90.20%	6.541%
259	13.034	13.014	13.044	VV	9508	124748	1.09%	0.079%
260	13.054	13.044	13.078	VV	8397	137823	1.21%	0.088%
261	13.117	13.078	13.129	VV	20310	348732	3.06%	0.222%
262	13.144	13.129	13.163	VV	38788	510767	4.48%	0.325%
263	13.185	13.163	13.229	VV	22135	557539	4.89%	0.355%
264	13.262	13.229	13.292	VV	671705	8163212	71.60%	5.193%
265	13.313	13.292	13.330	VV	81141	987718	8.66%	0.628%
266	13.346	13.330	13.379	VV	73342	1048176	9.19%	0.667%
267	13.388	13.379	13.399	VV	8988	101558	0.89%	0.065%
268	13.432	13.399	13.449	VV	31965	493932	4.33%	0.314%
269	13.467	13.449	13.500	VV	29942	517671	4.54%	0.329%
270	13.530	13.500	13.569	VV	40556	669217	5.87%	0.426%
271	13.589	13.569	13.600	VV	15872	221922	1.95%	0.141%
272	13.609	13.600	13.633	VV	17049	200813	1.76%	0.128%
273	13.657	13.633	13.674	VV	25108	357777	3.14%	0.228%
274	13.682	13.674	13.695	VV	14803	175616	1.54%	0.112%
275	13.719	13.695	13.778	VV	53844	990301	8.69%	0.630%
276	13.850	13.778	13.895	VV	137538	2430770	21.32%	1.546%
277	13.914	13.895	13.931	VV	13340	183818	1.61%	0.117%
278	13.957	13.931	13.979	VV	84605	1125579	9.87%	0.716%
279	13.996	13.979	14.019	VV	63940	876860	7.69%	0.558%
280	14.033	14.019	14.065	VV	25167	454162	3.98%	0.289%
281	14.125	14.065	14.148	VV	60888	1376612	12.07%	0.876%
282	14.167	14.148	14.217	VV	47205	842120	7.39%	0.536%
283	14.259	14.217	14.282	VV	14637	366808	3.22%	0.233%
284	14.288	14.282	14.312	VV	9573	149629	1.31%	0.095%
285	14.328	14.312	14.348	VV	8856	153068	1.34%	0.097%
286	14.361	14.348	14.372	VV	6413	85318	0.75%	0.054%
287	14.384	14.372	14.417	VV	6024	122891	1.08%	0.078%
288	14.440	14.417	14.477	VV	10443	215440	1.89%	0.137%
289	14.557	14.477	14.577	VV	26103	832973	7.31%	0.530%
290	14.599	14.577	14.629	VV	37862	650469	5.71%	0.414%
291	14.664	14.629	14.679	VV	19332	404362	3.55%	0.257%
292	14.691	14.679	14.715	VV	21138	353484	3.10%	0.225%
293	14.725	14.715	14.744	VV	10623	140901	1.24%	0.090%
294	14.769	14.744	14.804	VV	60437	1026722	9.01%	0.653%
295	14.828	14.804	14.857	VV	84117	1399415	12.27%	0.890%
296	14.882	14.857	14.891	VV	28852	452377	3.97%	0.288%
297	14.908	14.891	14.936	VV	46422	727823	6.38%	0.463%
298	14.950	14.936	14.967	VV	12772	192013	1.68%	0.122%
299	15.000	14.967	15.080	VV	103928	1985948	17.42%	1.263%

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300	15.104	15.080	15.116	VV	18836	254576	2.23%	0.162%
301	15.148	15.116	15.167	VV	356140	4653853	40.82%	2.960%
302	15.189	15.167	15.224	VV	342208	4432902	38.88%	2.820%
303	15.232	15.224	15.272	VV	9890	221806	1.95%	0.141%
304	15.306	15.272	15.365	VV	57854	1269737	11.14%	0.808%
305	15.400	15.365	15.432	VV	27229	581226	5.10%	0.370%
306	15.458	15.432	15.477	VV	36463	576054	5.05%	0.366%
307	15.493	15.477	15.530	VV	26733	562310	4.93%	0.358%
308	15.545	15.530	15.562	VV	11261	191843	1.68%	0.122%
309	15.589	15.562	15.672	VV	40409	1188549	10.43%	0.756%
310	15.733	15.672	15.752	VV	11628	375055	3.29%	0.239%
311	15.776	15.752	15.793	VV	20642	322677	2.83%	0.205%
312	15.820	15.793	15.842	VV	89528	1219120	10.69%	0.775%
313	15.859	15.842	15.890	VV	40688	689893	6.05%	0.439%
314	15.908	15.890	15.942	VV	23272	509056	4.47%	0.324%
315	15.981	15.942	16.034	VV	43390	1340498	11.76%	0.853%
316	16.057	16.034	16.087	VV	20733	416622	3.65%	0.265%
317	16.105	16.087	16.127	VV	9290	160440	1.41%	0.102%
318	16.147	16.127	16.189	VV	14898	264353	2.32%	0.168%
319	16.216	16.189	16.303	VV	21638	655088	5.75%	0.417%
320	16.324	16.303	16.343	VV	6217	102531	0.90%	0.065%
321	16.360	16.343	16.375	VV	5412	80571	0.71%	0.051%
322	16.383	16.375	16.398	VV	4724	60296	0.53%	0.038%
323	16.423	16.398	16.447	VV	13352	242236	2.12%	0.154%
324	16.464	16.447	16.484	VV	14997	205828	1.81%	0.131%
325	16.505	16.484	16.557	VV	20350	499027	4.38%	0.317%
326	16.625	16.557	16.650	VV	24754	699691	6.14%	0.445%
327	16.670	16.650	16.682	VV	14762	219528	1.93%	0.140%
328	16.716	16.682	16.732	VV	303378	4319621	37.89%	2.748%
329	16.740	16.732	16.777	VV	130706	1551231	13.61%	0.987%
330	16.789	16.777	16.812	VV	8032	142106	1.25%	0.090%
331	16.844	16.812	16.869	VV	56066	842151	7.39%	0.536%
332	16.878	16.869	16.899	VV	14614	198006	1.74%	0.126%
333	16.917	16.899	16.932	VV	7906	147492	1.29%	0.094%
334	16.969	16.932	16.978	VV	14266	251692	2.21%	0.160%
335	17.036	16.978	17.067	VV	181129	2934923	25.74%	1.867%
336	17.097	17.067	17.163	VV	244226	3507190	30.76%	2.231%
337	17.197	17.163	17.230	VV	63106	1056200	9.26%	0.672%
338	17.251	17.230	17.286	VV	16920	400280	3.51%	0.255%
339	17.341	17.286	17.382	VV	22223	808808	7.09%	0.514%
340	17.399	17.382	17.421	VV	11224	197165	1.73%	0.125%
341	17.460	17.421	17.539	VV	33447	1259722	11.05%	0.801%
342	17.561	17.539	17.569	VV	10781	147398	1.29%	0.094%
343	17.598	17.569	17.610	VV	20917	384598	3.37%	0.245%
344	17.625	17.610	17.659	VV	21829	405666	3.56%	0.258%
345	17.687	17.659	17.704	VV	18888	327668	2.87%	0.208%
346	17.717	17.704	17.734	VV	13997	199246	1.75%	0.127%
347	17.757	17.734	17.785	VV	22357	473271	4.15%	0.301%
348	17.795	17.785	17.841	VV	12268	269278	2.36%	0.171%
349	17.875	17.841	17.902	VV	9053	263801	2.31%	0.168%
350	17.915	17.902	17.929	VV	5827	78098	0.69%	0.050%
351	17.945	17.929	17.984	VV	5268	137000	1.20%	0.087%

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352	18.063	17.984	18.081	VV	13869	448582	3.93%	0.285%
353	18.097	18.081	18.127	VV	13415	246953	2.17%	0.157%
354	18.184	18.127	18.214	VV	20247	563802	4.95%	0.359%
355	18.257	18.214	18.309	VV	20554	773545	6.78%	0.492%
356	18.319	18.309	18.344	VV	8503	154301	1.35%	0.098%
357	18.381	18.344	18.415	VV	48252	921448	8.08%	0.586%
358	18.433	18.415	18.449	VV	19277	341818	3.00%	0.217%
359	18.477	18.449	18.500	VV	143305	2178490	19.11%	1.386%
360	18.513	18.500	18.541	VV	35553	635718	5.58%	0.404%
361	18.558	18.541	18.582	VV	19054	354432	3.11%	0.225%
362	18.607	18.582	18.624	VV	46785	695136	6.10%	0.442%
363	18.638	18.624	18.659	VV	34342	543920	4.77%	0.346%
364	18.670	18.659	18.698	VV	18958	305707	2.68%	0.194%
365	18.730	18.698	18.787	VV	127291	1977397	17.34%	1.258%
366	18.813	18.787	18.837	VV	17124	383276	3.36%	0.244%
367	18.866	18.837	18.938	VV	46615	1045878	9.17%	0.665%
368	18.969	18.938	18.990	VV	9588	213267	1.87%	0.136%
369	19.001	18.990	19.010	VV	6642	71995	0.63%	0.046%
370	19.043	19.010	19.066	VV	10562	266502	2.34%	0.170%
371	19.078	19.066	19.100	VV	7466	136823	1.20%	0.087%
372	19.121	19.100	19.136	VV	7935	149062	1.31%	0.095%
373	19.166	19.136	19.194	VV	16514	362870	3.18%	0.231%
374	19.216	19.194	19.225	VV	7763	145107	1.27%	0.092%
375	19.252	19.225	19.285	VV	19158	455333	3.99%	0.290%
376	19.308	19.285	19.365	VV	16589	528693	4.64%	0.336%
377	19.373	19.365	19.392	VV	6343	84723	0.74%	0.054%
378	19.423	19.392	19.465	VV	13490	356561	3.13%	0.227%
379	19.478	19.465	19.510	VV	4835	120736	1.06%	0.077%
380	19.528	19.510	19.542	VV	4325	75295	0.66%	0.048%
381	19.568	19.542	19.646	VV	7141	292891	2.57%	0.186%
382	19.687	19.646	19.715	VV	6391	214483	1.88%	0.136%
383	19.749	19.715	19.779	VV	8514	251798	2.21%	0.160%
384	19.789	19.779	19.805	VV	6954	102325	0.90%	0.065%
385	19.818	19.805	19.832	VV	8268	117798	1.03%	0.075%
386	19.891	19.832	19.930	VV	49790	1220845	10.71%	0.777%
387	19.960	19.930	19.996	VV	51018	1099136	9.64%	0.699%
388	20.027	19.996	20.040	VV	20295	465428	4.08%	0.296%
389	20.048	20.040	20.132	VV	17616	644594	5.65%	0.410%
390	20.180	20.132	20.219	VV	16089	460878	4.04%	0.293%
391	20.274	20.219	20.318	VV	60898	1433151	12.57%	0.912%
392	20.345	20.318	20.366	VV	26970	533924	4.68%	0.340%
393	20.383	20.366	20.400	VV	18029	340777	2.99%	0.217%
394	20.415	20.400	20.465	VV	18828	556779	4.88%	0.354%
395	20.495	20.465	20.505	VV	9774	215755	1.89%	0.137%
396	20.553	20.505	20.580	VV	11275	470802	4.13%	0.299%
397	20.592	20.580	20.614	VV	10546	198309	1.74%	0.126%
398	20.629	20.614	20.683	VV	9662	364282	3.20%	0.232%
399	20.701	20.683	20.719	VV	8974	177278	1.55%	0.113%
400	20.803	20.719	20.831	VV	12191	657302	5.77%	0.418%
401	20.844	20.831	20.851	VV	8754	100947	0.89%	0.064%
402	20.866	20.851	20.911	VV	9539	284303	2.49%	0.181%
403	20.944	20.911	21.017	VV	10888	527752	4.63%	0.336%
404	21.044	21.017	21.075	VV	8636	254278	2.23%	0.162%

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405	21.104	21.075	21.112	VV	6291	130200	1.14%	0.083%
406	21.169	21.112	21.217	VV	7138	376390	3.30%	0.239%
407	21.250	21.217	21.277	VV	5358	175970	1.54%	0.112%
408	21.320	21.277	21.375	VV	10258	434743	3.81%	0.277%
409	21.411	21.375	21.462	VV	8706	263328	2.31%	0.167%
410	21.523	21.462	21.574	VV	8202	343656	3.01%	0.219%
411	21.618	21.574	21.651	VV	8658	275977	2.42%	0.176%
412	21.719	21.651	21.776	VV	16230	788760	6.92%	0.502%
413	21.800	21.776	21.864	VV	6123	193282	1.70%	0.123%
414	21.888	21.864	21.914	VV	3271	70040	0.61%	0.045%
415	21.938	21.914	21.988	VV	4433	100742	0.88%	0.064%
416	22.037	21.988	22.074	PV	6466	180382	1.58%	0.115%
417	22.116	22.074	22.200	VBA	6996	276752	2.43%	0.176%
					Sum of corrected areas:		157211157	

FG042425.M Wed Apr 30 02:09:04 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	53.2
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015768.D	1	04/29/25 10:49	04/29/25 15:49	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	9080		721	5320	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.4		37 - 130	97%	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_G\Data\FG042925\
Data File : FG015768.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:49
Operator : YP\AJ
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.000	2281901	19.381 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

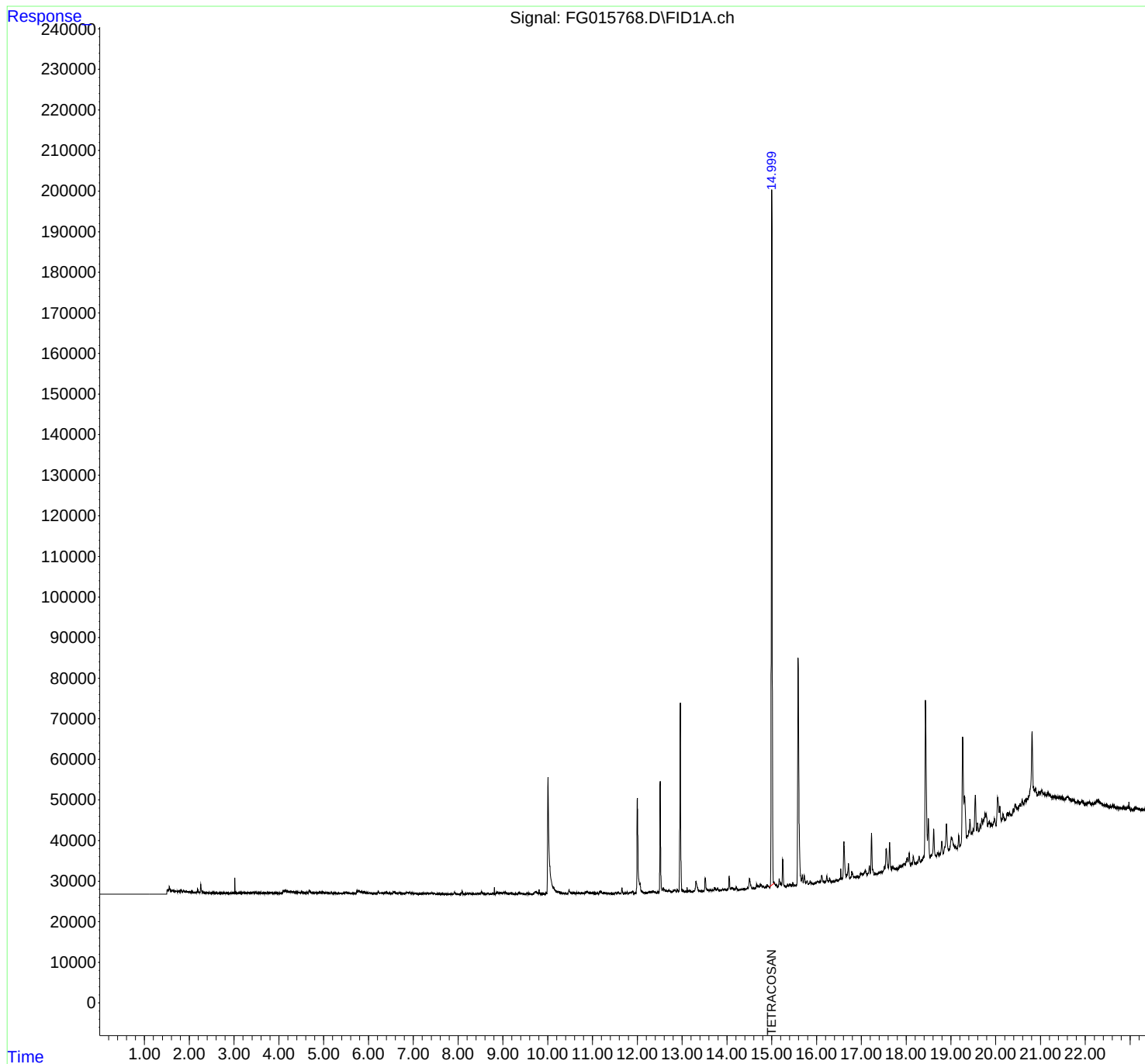
(m)=manual int.

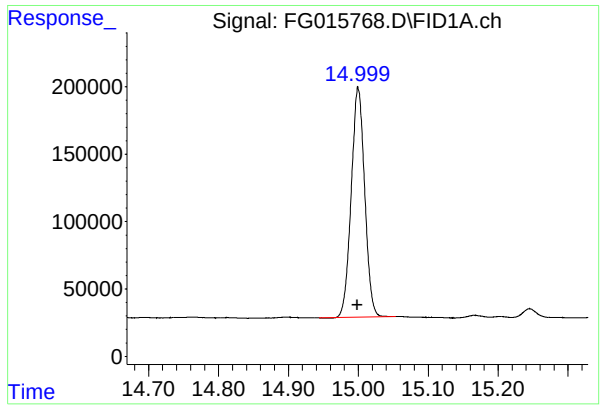
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015768.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 15:49
Operator : YP\AJ
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-167-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.000 min
Delta R.T.: 0.001 min
Response: 2281901
Conc: 19.38 ug/ml

Instrument :
FID_G
ClientSampleId :
B-167-SB02

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015768.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 15:49
 Sample : Q1901-04
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.934	1.912	2.013	BV	347	2780	0.12%	0.014%
2	2.018	2.013	2.040	VV	106	1258	0.05%	0.006%
3	2.052	2.040	2.091	PV	290	4129	0.18%	0.021%
4	2.099	2.091	2.104	VV	95	396	0.02%	0.002%
5	2.113	2.104	2.128	PV	103	773	0.03%	0.004%
6	2.138	2.128	2.142	VV	106	493	0.02%	0.002%
7	2.147	2.142	2.151	VV	55	323	0.01%	0.002%
8	2.156	2.151	2.164	VV	136	551	0.02%	0.003%
9	2.186	2.164	2.240	VV	888	15195	0.65%	0.076%
10	2.256	2.240	2.290	VV	2127	25684	1.09%	0.129%
11	2.301	2.290	2.322	VV	358	3825	0.16%	0.019%
12	2.330	2.322	2.351	VV	115	1338	0.06%	0.007%
13	2.358	2.351	2.365	VV	137	668	0.03%	0.003%
14	2.370	2.365	2.385	VV	144	1095	0.05%	0.006%
15	2.389	2.385	2.401	VV	135	799	0.03%	0.004%
16	2.406	2.401	2.411	VV	125	587	0.02%	0.003%
17	2.415	2.411	2.432	VV	135	1149	0.05%	0.006%
18	2.438	2.432	2.462	VV	128	1357	0.06%	0.007%
19	2.467	2.462	2.486	VV	91	717	0.03%	0.004%
20	2.499	2.486	2.507	PV	142	1080	0.05%	0.005%
21	2.529	2.507	2.540	VV	220	2267	0.10%	0.011%
22	2.546	2.540	2.565	VV	142	1145	0.05%	0.006%
23	2.573	2.565	2.592	VV	111	910	0.04%	0.005%
24	2.598	2.592	2.604	VV	367	732	0.03%	0.004%
25	2.610	2.604	2.619	VV	152	688	0.03%	0.003%
26	2.629	2.619	2.643	VV	145	1017	0.04%	0.005%
27	2.650	2.643	2.655	VV	120	388	0.02%	0.002%
28	2.667	2.655	2.680	VV	129	1085	0.05%	0.005%
29	2.726	2.680	2.734	VV	167	2794	0.12%	0.014%
30	2.744	2.734	2.757	VV	145	1453	0.06%	0.007%
31	2.766	2.757	2.789	VV	149	2306	0.10%	0.012%
32	2.795	2.789	2.799	VV	119	613	0.03%	0.003%
33	2.805	2.799	2.824	PV	143	1292	0.05%	0.006%
34	2.830	2.824	2.846	VV	156	1185	0.05%	0.006%
35	2.857	2.846	2.886	VV	146	1887	0.08%	0.009%
36	2.892	2.886	2.900	VV	121	668	0.03%	0.003%

					rteres			
37	2.904	2.900	2.913	VV	146	632	0.03%	0.003%
38	2.922	2.913	2.928	VV	160	995	0.04%	0.005%
39	2.933	2.928	2.943	VV	172	966	0.04%	0.005%
40	2.966	2.943	2.979	VV	201	2804	0.12%	0.014%
41	2.983	2.979	3.003	VV	161	1581	0.07%	0.008%
42	3.016	3.003	3.023	VV	2923	4372	0.19%	0.022%
43	3.040	3.023	3.068	VV	225	4074	0.17%	0.020%
44	3.074	3.068	3.084	VV	206	1314	0.06%	0.007%
45	3.091	3.084	3.124	VV	171	3053	0.13%	0.015%
46	3.127	3.124	3.134	VV	189	700	0.03%	0.004%
47	3.137	3.134	3.141	VV	181	602	0.03%	0.003%
48	3.146	3.141	3.154	VV	173	905	0.04%	0.005%
49	3.172	3.154	3.185	VV	236	2816	0.12%	0.014%
50	3.189	3.185	3.196	VV	173	1028	0.04%	0.005%
51	3.207	3.196	3.218	VV	193	2030	0.09%	0.010%
52	3.221	3.218	3.243	VV	197	2393	0.10%	0.012%
53	3.246	3.243	3.269	VV	201	2377	0.10%	0.012%
54	3.272	3.269	3.281	VV	208	1185	0.05%	0.006%
55	3.286	3.281	3.300	VV	185	1670	0.07%	0.008%
56	3.305	3.300	3.317	VV	196	1513	0.06%	0.008%
57	3.321	3.317	3.339	VV	187	1819	0.08%	0.009%
58	3.353	3.339	3.362	VV	216	2319	0.10%	0.012%
59	3.377	3.362	3.383	VV	191	1896	0.08%	0.010%
60	3.390	3.383	3.397	VV	186	1308	0.06%	0.007%
61	3.402	3.397	3.408	VV	219	1137	0.05%	0.006%
62	3.415	3.408	3.438	VV	268	3742	0.16%	0.019%
63	3.455	3.438	3.476	VV	302	4908	0.21%	0.025%
64	3.481	3.476	3.501	VV	237	2991	0.13%	0.015%
65	3.503	3.501	3.519	VV	215	1918	0.08%	0.010%
66	3.522	3.519	3.526	VV	216	823	0.03%	0.004%
67	3.531	3.526	3.541	VV	212	1529	0.06%	0.008%
68	3.552	3.541	3.570	VV	224	3146	0.13%	0.016%
69	3.589	3.570	3.606	VV	234	3562	0.15%	0.018%
70	3.624	3.606	3.665	VV	242	5914	0.25%	0.030%
71	3.669	3.665	3.673	VV	220	782	0.03%	0.004%
72	3.677	3.673	3.688	VV	189	1355	0.06%	0.007%
73	3.693	3.688	3.711	VV	210	2469	0.10%	0.012%
74	3.729	3.711	3.735	VV	224	2354	0.10%	0.012%
75	3.743	3.735	3.767	VV	210	2908	0.12%	0.015%
76	3.780	3.767	3.793	VV	219	2346	0.10%	0.012%
77	3.826	3.793	3.849	VV	298	7019	0.30%	0.035%
78	3.855	3.849	3.866	VV	187	1638	0.07%	0.008%
79	3.871	3.866	3.893	VV	202	2427	0.10%	0.012%
80	3.897	3.893	3.901	VV	129	547	0.02%	0.003%
81	3.915	3.901	3.923	VV	202	1906	0.08%	0.010%
82	3.927	3.923	3.936	VV	191	1093	0.05%	0.005%
83	3.939	3.936	3.962	VV	191	2168	0.09%	0.011%
84	3.964	3.962	3.969	VV	184	504	0.02%	0.003%
85	3.975	3.969	3.998	VV	185	2179	0.09%	0.011%
86	4.004	3.998	4.009	VV	134	922	0.04%	0.005%
87	4.013	4.009	4.031	VV	193	1875	0.08%	0.009%
88	4.047	4.031	4.062	VV	172	2563	0.11%	0.013%
89	4.111	4.062	4.123	VV	747	17139	0.73%	0.086%

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90	4.134	4.123	4.162	VV	711	15517	0.66%	0.078%
91	4.169	4.162	4.173	VV	654	4092	0.17%	0.021%
92	4.178	4.173	4.213	VV	677	13396	0.57%	0.067%
93	4.223	4.213	4.228	VV	534	4605	0.20%	0.023%
94	4.234	4.228	4.249	VV	554	6218	0.26%	0.031%
95	4.254	4.249	4.264	VV	520	4456	0.19%	0.022%
96	4.271	4.264	4.316	VV	474	13562	0.58%	0.068%
97	4.325	4.316	4.366	VV	539	12672	0.54%	0.064%
98	4.372	4.366	4.394	VV	439	5184	0.22%	0.026%
99	4.399	4.394	4.419	VV	333	4300	0.18%	0.022%
100	4.434	4.419	4.444	VV	348	4304	0.18%	0.022%
101	4.447	4.444	4.482	VV	293	5661	0.24%	0.028%
102	4.506	4.482	4.542	VV	544	12503	0.53%	0.063%
103	4.546	4.542	4.550	VV	292	1114	0.05%	0.006%
104	4.553	4.550	4.567	VV	284	2534	0.11%	0.013%
105	4.579	4.567	4.605	VV	259	5357	0.23%	0.027%
106	4.628	4.605	4.633	VV	402	5239	0.22%	0.026%
107	4.635	4.633	4.652	VV	351	3357	0.14%	0.017%
108	4.679	4.652	4.731	VV	957	22377	0.95%	0.113%
109	4.739	4.731	4.748	VV	287	2579	0.11%	0.013%
110	4.751	4.748	4.754	VV	266	915	0.04%	0.005%
111	4.757	4.754	4.786	VV	280	4447	0.19%	0.022%
112	4.790	4.786	4.796	VV	208	1163	0.05%	0.006%
113	4.808	4.796	4.812	VV	277	2144	0.09%	0.011%
114	4.838	4.812	4.844	VV	306	4723	0.20%	0.024%
115	4.846	4.844	4.857	VV	294	1994	0.08%	0.010%
116	4.880	4.857	4.886	VV	391	5759	0.24%	0.029%
117	4.904	4.886	4.928	VV	427	8650	0.37%	0.044%
118	4.931	4.928	4.935	VV	368	1374	0.06%	0.007%
119	4.938	4.935	5.012	VV	316	13274	0.56%	0.067%
120	5.019	5.012	5.062	VV	249	6639	0.28%	0.033%
121	5.077	5.062	5.085	VV	283	3506	0.15%	0.018%
122	5.092	5.085	5.148	VV	312	7448	0.32%	0.037%
123	5.173	5.148	5.185	VV	345	5445	0.23%	0.027%
124	5.189	5.185	5.197	VV	241	1461	0.06%	0.007%
125	5.203	5.197	5.241	VV	229	4456	0.19%	0.022%
126	5.249	5.241	5.274	VV	206	3085	0.13%	0.016%
127	5.278	5.274	5.283	VV	183	705	0.03%	0.004%
128	5.288	5.283	5.304	VV	177	1635	0.07%	0.008%
129	5.307	5.304	5.314	VV	162	751	0.03%	0.004%
130	5.340	5.314	5.357	VV	216	4251	0.18%	0.021%
131	5.374	5.357	5.385	VV	206	2604	0.11%	0.013%
132	5.395	5.385	5.401	VV	188	1363	0.06%	0.007%
133	5.408	5.401	5.413	VV	175	1086	0.05%	0.005%
134	5.418	5.413	5.424	VV	212	1067	0.05%	0.005%
135	5.486	5.424	5.515	VV	470	15853	0.67%	0.080%
136	5.519	5.515	5.526	VV	342	1829	0.08%	0.009%
137	5.529	5.526	5.543	VV	275	2373	0.10%	0.012%
138	5.550	5.543	5.619	VV	242	8078	0.34%	0.041%
139	5.631	5.619	5.634	VV	159	1102	0.05%	0.006%
140	5.652	5.634	5.667	VV	265	3614	0.15%	0.018%
141	5.677	5.667	5.683	VV	206	1715	0.07%	0.009%

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142	5.686	5.683	5.701	VV	176	1478	0.06%	0.007%
143	5.705	5.701	5.713	VV	202	1004	0.04%	0.005%
144	5.754	5.713	5.831	VV	727	40076	1.70%	0.202%
145	5.833	5.831	5.841	VV	560	3064	0.13%	0.015%
146	5.851	5.841	5.871	VV	562	8870	0.38%	0.045%
147	5.872	5.871	5.903	VV	511	8172	0.35%	0.041%
148	5.913	5.903	5.944	VV	490	9739	0.41%	0.049%
149	5.950	5.944	5.961	VV	359	3239	0.14%	0.016%
150	5.964	5.961	5.969	VV	370	1610	0.07%	0.008%
151	5.974	5.969	5.989	VV	356	3493	0.15%	0.018%
152	5.992	5.989	6.009	VV	316	3161	0.13%	0.016%
153	6.023	6.009	6.075	VV	335	9635	0.41%	0.048%
154	6.079	6.075	6.083	VV	210	781	0.03%	0.004%
155	6.086	6.083	6.092	VV	188	1002	0.04%	0.005%
156	6.096	6.092	6.107	VV	202	1610	0.07%	0.008%
157	6.112	6.107	6.157	VV	252	5040	0.21%	0.025%
158	6.176	6.157	6.193	VV	173	3161	0.13%	0.016%
159	6.219	6.193	6.244	VV	805	12177	0.52%	0.061%
160	6.249	6.244	6.255	VV	314	1959	0.08%	0.010%
161	6.262	6.255	6.270	VV	305	2621	0.11%	0.013%
162	6.283	6.270	6.308	VV	319	6196	0.26%	0.031%
163	6.329	6.308	6.346	VV	344	6042	0.26%	0.030%
164	6.350	6.346	6.359	VV	317	2082	0.09%	0.010%
165	6.366	6.359	6.377	VV	321	3077	0.13%	0.015%
166	6.398	6.377	6.430	VV	651	12097	0.51%	0.061%
167	6.456	6.430	6.476	VV	301	6332	0.27%	0.032%
168	6.480	6.476	6.488	VV	243	1705	0.07%	0.009%
169	6.492	6.488	6.497	VV	248	1295	0.06%	0.007%
170	6.499	6.497	6.511	VV	240	1413	0.06%	0.007%
171	6.520	6.511	6.531	VV	193	1964	0.08%	0.010%
172	6.563	6.531	6.604	VV	539	16590	0.70%	0.083%
173	6.606	6.604	6.627	VV	359	3877	0.16%	0.019%
174	6.639	6.627	6.673	VV	316	7429	0.32%	0.037%
175	6.683	6.673	6.709	VV	363	6554	0.28%	0.033%
176	6.713	6.709	6.732	VV	255	2837	0.12%	0.014%
177	6.741	6.732	6.749	VV	206	1667	0.07%	0.008%
178	6.759	6.749	6.768	VV	197	1826	0.08%	0.009%
179	6.774	6.768	6.781	VV	190	1169	0.05%	0.006%
180	6.785	6.781	6.804	VV	175	2087	0.09%	0.010%
181	6.866	6.804	6.877	VV	380	12247	0.52%	0.062%
182	6.882	6.877	6.893	VV	378	3353	0.14%	0.017%
183	6.898	6.893	6.912	VV	396	4039	0.17%	0.020%
184	6.918	6.912	6.939	VV	391	5563	0.24%	0.028%
185	6.944	6.939	6.951	VV	335	2131	0.09%	0.011%
186	6.964	6.951	7.006	VV	338	9012	0.38%	0.045%
187	7.011	7.006	7.024	VV	220	2020	0.09%	0.010%
188	7.030	7.024	7.104	VV	219	6767	0.29%	0.034%
189	7.111	7.104	7.137	VV	153	2023	0.09%	0.010%
190	7.144	7.137	7.152	VV	136	797	0.03%	0.004%
191	7.156	7.152	7.163	VV	147	752	0.03%	0.004%
192	7.184	7.163	7.221	VV	184	4896	0.21%	0.025%
193	7.224	7.221	7.237	VV	248	1732	0.07%	0.009%
194	7.243	7.237	7.254	VV	237	1945	0.08%	0.010%

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195	7.258	7.254	7.276	VV	271	2890	0.12%	0.015%
196	7.283	7.276	7.292	VV	268	2274	0.10%	0.011%
197	7.296	7.292	7.348	VV	222	6782	0.29%	0.034%
198	7.402	7.348	7.452	VV	400	14611	0.62%	0.073%
199	7.470	7.452	7.511	VV	211	4914	0.21%	0.025%
200	7.532	7.511	7.544	VV	205	2593	0.11%	0.013%
201	7.552	7.544	7.562	VV	177	1365	0.06%	0.007%
202	7.574	7.562	7.609	VV	178	2995	0.13%	0.015%
203	7.638	7.609	7.700	VV	267	5743	0.24%	0.029%
204	7.726	7.700	7.747	VV	107	1946	0.08%	0.010%
205	7.759	7.747	7.777	VV	95	1369	0.06%	0.007%
206	7.782	7.777	7.791	VV	140	591	0.03%	0.003%
207	7.806	7.791	7.852	VV	103	2654	0.11%	0.013%
208	7.869	7.852	7.888	VV	82	1212	0.05%	0.006%
209	7.918	7.888	7.988	VV	676	12302	0.52%	0.062%
210	8.003	7.988	8.031	VV	163	1751	0.07%	0.009%
211	8.090	8.031	8.115	PV	722	14026	0.60%	0.071%
212	8.125	8.115	8.161	VV	146	3344	0.14%	0.017%
213	8.172	8.161	8.194	VV	193	2958	0.13%	0.015%
214	8.214	8.194	8.238	VV	254	5225	0.22%	0.026%
215	8.246	8.238	8.257	VV	213	2250	0.10%	0.011%
216	8.267	8.257	8.327	VV	266	8088	0.34%	0.041%
217	8.340	8.327	8.381	VV	258	5631	0.24%	0.028%
218	8.399	8.381	8.411	VV	164	2298	0.10%	0.012%
219	8.436	8.411	8.469	VV	234	6153	0.26%	0.031%
220	8.522	8.469	8.584	VV	744	20348	0.86%	0.102%
221	8.654	8.584	8.697	VV	294	10403	0.44%	0.052%
222	8.707	8.697	8.731	VV	152	1990	0.08%	0.010%
223	8.770	8.731	8.800	VV	223	6328	0.27%	0.032%
224	8.809	8.800	8.909	VV	1272	19811	0.84%	0.100%
225	8.913	8.909	8.922	VV	350	2275	0.10%	0.011%
226	8.953	8.922	8.992	VV	430	13547	0.58%	0.068%
227	9.018	8.992	9.045	VV	520	12730	0.54%	0.064%
228	9.060	9.045	9.106	VV	474	10753	0.46%	0.054%
229	9.115	9.106	9.126	VV	201	2045	0.09%	0.010%
230	9.176	9.126	9.232	VV	275	10989	0.47%	0.055%
231	9.284	9.232	9.334	VV	215	6729	0.29%	0.034%
232	9.352	9.334	9.374	VV	520	7148	0.30%	0.036%
233	9.395	9.374	9.472	VV	369	10328	0.44%	0.052%
234	9.485	9.472	9.506	VV	103	1462	0.06%	0.007%
235	9.545	9.506	9.618	VV	343	8277	0.35%	0.042%
236	9.628	9.618	9.654	PV	80	1112	0.05%	0.006%
237	9.720	9.654	9.799	VV	643	28218	1.20%	0.142%
238	9.807	9.799	9.841	VV	596	4728	0.20%	0.024%
239	9.861	9.841	9.901	VV	200	4267	0.18%	0.021%
240	9.915	9.901	9.938	VV	125	1545	0.07%	0.008%
241	9.962	9.938	9.982	PV	377	5265	0.22%	0.026%
242	10.008	9.982	10.120	VV	28580	676101	28.72%	3.400%
243	10.130	10.120	10.307	VV	1754	85086	3.61%	0.428%
244	10.314	10.307	10.403	VV	292	11596	0.49%	0.058%
245	10.410	10.403	10.435	VV	141	2453	0.10%	0.012%
246	10.477	10.435	10.546	VV	1121	28138	1.20%	0.142%

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247	10.585	10.546	10.607	VV	307	10211	0.43%	0.051%
248	10.613	10.607	10.630	VV	277	3197	0.14%	0.016%
249	10.652	10.630	10.677	VV	319	6445	0.27%	0.032%
250	10.692	10.677	10.724	VV	449	7242	0.31%	0.036%
251	10.755	10.724	10.794	VV	306	9858	0.42%	0.050%
252	10.801	10.794	10.819	VV	262	2741	0.12%	0.014%
253	10.843	10.819	10.861	VV	515	9096	0.39%	0.046%
254	10.879	10.861	10.919	VV	628	16406	0.70%	0.083%
255	10.944	10.919	10.966	VV	342	8679	0.37%	0.044%
256	10.974	10.966	11.037	VV	337	10879	0.46%	0.055%
257	11.049	11.037	11.087	VV	318	6172	0.26%	0.031%
258	11.111	11.087	11.138	VV	307	6099	0.26%	0.031%
259	11.170	11.138	11.232	VV	746	20801	0.88%	0.105%
260	11.256	11.232	11.289	VV	394	8263	0.35%	0.042%
261	11.315	11.289	11.372	VV	220	7644	0.32%	0.038%
262	11.395	11.372	11.427	VV	212	4654	0.20%	0.023%
263	11.454	11.427	11.487	PV	109	2961	0.13%	0.015%
264	11.511	11.487	11.535	VV	412	6427	0.27%	0.032%
265	11.557	11.535	11.566	VV	396	5414	0.23%	0.027%
266	11.579	11.566	11.609	VV	484	6901	0.29%	0.035%
267	11.659	11.609	11.714	VV	1498	22657	0.96%	0.114%
268	11.738	11.714	11.756	PV	234	3129	0.13%	0.016%
269	11.773	11.756	11.802	VV	478	5365	0.23%	0.027%
270	11.825	11.802	11.841	PV	325	4386	0.19%	0.022%
271	11.861	11.841	11.872	VV	393	6061	0.26%	0.030%
272	11.896	11.872	11.949	VV	650	13807	0.59%	0.069%
273	12.001	11.949	12.054	VV	23374	376611	16.00%	1.894%
274	12.060	12.054	12.201	VV	2500	48964	2.08%	0.246%
275	12.254	12.201	12.290	VV	421	14049	0.60%	0.071%
276	12.311	12.290	12.329	VV	425	7416	0.32%	0.037%
277	12.344	12.329	12.366	VV	524	8925	0.38%	0.045%
278	12.375	12.366	12.437	VV	467	9044	0.38%	0.045%
279	12.459	12.437	12.478	PV	377	5569	0.24%	0.028%
280	12.511	12.478	12.557	VV	27546	316904	13.46%	1.594%
281	12.575	12.557	12.592	VV	1318	20712	0.88%	0.104%
282	12.604	12.592	12.627	VV	901	14586	0.62%	0.073%
283	12.642	12.627	12.680	VV	621	16241	0.69%	0.082%
284	12.708	12.680	12.766	VV	580	20747	0.88%	0.104%
285	12.815	12.766	12.829	VV	637	15693	0.67%	0.079%
286	12.841	12.829	12.869	VV	711	11640	0.49%	0.059%
287	12.895	12.869	12.929	VV	730	15145	0.64%	0.076%
288	12.959	12.929	13.067	VV	46735	588193	24.99%	2.958%
289	13.078	13.067	13.086	VV	190	1621	0.07%	0.008%
290	13.112	13.086	13.129	VV	756	5001	0.21%	0.025%
291	13.152	13.129	13.192	VV	387	8288	0.35%	0.042%
292	13.206	13.192	13.233	VV	158	2871	0.12%	0.014%
293	13.309	13.233	13.435	VV	2575	78695	3.34%	0.396%
294	13.443	13.435	13.450	VV	145	1092	0.05%	0.005%
295	13.461	13.450	13.486	VV	192	2239	0.10%	0.011%
296	13.516	13.486	13.614	PV	3295	65364	2.78%	0.329%
297	13.634	13.614	13.671	VV	358	7761	0.33%	0.039%
298	13.687	13.671	13.701	VV	235	3364	0.14%	0.017%
299	13.721	13.701	13.764	VV	815	19035	0.81%	0.096%

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300	13.790	13.764	13.834	VV	746	15077	0.64%	0.076%
301	13.911	13.834	13.949	VV	384	15434	0.66%	0.078%
302	13.960	13.949	13.987	VV	227	4290	0.18%	0.022%
303	14.050	13.987	14.081	VV	3505	54478	2.31%	0.274%
304	14.096	14.081	14.109	VV	618	8343	0.35%	0.042%
305	14.121	14.109	14.169	VV	685	13985	0.59%	0.070%
306	14.207	14.169	14.231	VV	912	13437	0.57%	0.068%
307	14.244	14.231	14.256	VV	93	1155	0.05%	0.006%
308	14.268	14.256	14.279	VV	66	625	0.03%	0.003%
309	14.317	14.279	14.364	PV	186	5448	0.23%	0.027%
310	14.382	14.364	14.404	VV	85	1211	0.05%	0.006%
311	14.459	14.404	14.472	PV	446	7450	0.32%	0.037%
312	14.503	14.472	14.574	VV	2707	63075	2.68%	0.317%
313	14.602	14.574	14.634	VV	261	5668	0.24%	0.029%
314	14.660	14.634	14.678	VV	1218	16044	0.68%	0.081%
315	14.693	14.678	14.716	VV	818	13246	0.56%	0.067%
316	14.764	14.716	14.796	VV	918	30788	1.31%	0.155%
317	14.813	14.796	14.842	VV	595	9237	0.39%	0.046%
318	14.897	14.842	14.959	VV	842	24942	1.06%	0.125%
319	15.000	14.959	15.139	VV	171209	2354084	100.00%	11.838%
320	15.166	15.139	15.191	VV	1982	31609	1.34%	0.159%
321	15.203	15.191	15.221	VV	1124	13848	0.59%	0.070%
322	15.245	15.221	15.314	VV	6850	99345	4.22%	0.500%
323	15.357	15.314	15.379	PV	585	8395	0.36%	0.042%
324	15.397	15.379	15.446	VV	533	12232	0.52%	0.062%
325	15.472	15.446	15.501	VV	839	11180	0.47%	0.056%
326	15.537	15.501	15.552	VV	137	2720	0.12%	0.014%
327	15.588	15.552	15.661	VV	55724	1055441	44.83%	5.308%
328	15.681	15.661	15.704	VV	2543	41864	1.78%	0.211%
329	15.725	15.704	15.762	VV	2314	43769	1.86%	0.220%
330	15.790	15.762	15.817	VV	969	18299	0.78%	0.092%
331	15.856	15.817	15.887	VV	825	16738	0.71%	0.084%
332	15.894	15.887	15.926	VV	301	3973	0.17%	0.020%
333	16.027	15.926	16.059	VV	580	21719	0.92%	0.109%
334	16.079	16.059	16.091	VV	378	6562	0.28%	0.033%
335	16.116	16.091	16.171	VV	1854	41751	1.77%	0.210%
336	16.193	16.171	16.204	VV	315	5092	0.22%	0.026%
337	16.228	16.204	16.272	VV	1652	29189	1.24%	0.147%
338	16.291	16.272	16.336	VV	1119	17240	0.73%	0.087%
339	16.363	16.336	16.385	VV	161	3174	0.13%	0.016%
340	16.437	16.385	16.476	PV	320	10706	0.45%	0.054%
341	16.525	16.476	16.536	VV	538	11384	0.48%	0.057%
342	16.541	16.536	16.549	VV	2310	5937	0.25%	0.030%
343	16.610	16.549	16.662	VV	9549	197849	8.40%	0.995%
344	16.711	16.662	16.740	VV	3815	78692	3.34%	0.396%
345	16.792	16.740	16.835	VV	1736	39492	1.68%	0.199%
346	16.855	16.835	16.886	VV	444	8765	0.37%	0.044%
347	16.907	16.886	16.931	VV	547	8704	0.37%	0.044%
348	16.998	16.931	17.024	VV	939	31284	1.33%	0.157%
349	17.030	17.024	17.046	VV	695	8311	0.35%	0.042%
350	17.093	17.046	17.128	VV	1320	43808	1.86%	0.220%
351	17.179	17.128	17.199	VV	2383	47606	2.02%	0.239%

					rteres			
352	17.226	17.199	17.288	VV	10338	164758	7.00%	0.829%
353	17.307	17.288	17.330	PV	304	4328	0.18%	0.022%
354	17.419	17.330	17.440	VV	405	12399	0.53%	0.062%
355	17.512	17.440	17.529	VV	1466	32220	1.37%	0.162%
356	17.556	17.529	17.601	VV	5763	130479	5.54%	0.656%
357	17.630	17.601	17.672	VV	7060	119945	5.10%	0.603%
358	17.690	17.672	17.701	VV	916	11762	0.50%	0.059%
359	17.713	17.701	17.732	VV	772	11465	0.49%	0.058%
360	17.739	17.732	17.802	VV	409	9982	0.42%	0.050%
361	17.810	17.802	17.821	VV	163	1257	0.05%	0.006%
362	17.867	17.821	17.882	PV	637	13610	0.58%	0.068%
363	17.911	17.882	17.923	VV	615	12935	0.55%	0.065%
364	17.958	17.923	17.981	VV	1004	26312	1.12%	0.132%
365	18.024	17.981	18.042	VV	2336	55877	2.37%	0.281%
366	18.068	18.042	18.099	VV	3348	56115	2.38%	0.282%
367	18.160	18.099	18.226	VV	2209	51662	2.19%	0.260%
368	18.291	18.226	18.326	PV	1673	39644	1.68%	0.199%
369	18.389	18.326	18.397	VV	1372	31572	1.34%	0.159%
370	18.431	18.397	18.476	VV	38969	774548	32.90%	3.895%
371	18.495	18.476	18.534	VV	10123	175381	7.45%	0.882%
372	18.555	18.534	18.564	VV	1002	14200	0.60%	0.071%
373	18.615	18.564	18.671	VV	7061	142064	6.03%	0.714%
374	18.698	18.671	18.734	VV	1097	24712	1.05%	0.124%
375	18.795	18.734	18.831	VV	3596	78274	3.33%	0.394%
376	18.899	18.831	18.952	VV	7412	199558	8.48%	1.004%
377	19.016	18.952	19.084	VV	3645	165862	7.05%	0.834%
378	19.106	19.084	19.126	VV	1174	21126	0.90%	0.106%
379	19.134	19.126	19.142	VV	639	5633	0.24%	0.028%
380	19.173	19.142	19.197	VV	3628	60935	2.59%	0.306%
381	19.261	19.197	19.289	VV	27353	563970	23.96%	2.836%
382	19.304	19.289	19.354	VV	12657	306248	13.01%	1.540%
383	19.424	19.354	19.449	VV	6645	214676	9.12%	1.080%
384	19.469	19.449	19.481	VV	3334	59548	2.53%	0.299%
385	19.496	19.481	19.510	VV	3967	63025	2.68%	0.317%
386	19.543	19.510	19.576	VV	12006	278477	11.83%	1.400%
387	19.595	19.576	19.617	VV	4933	94062	4.00%	0.473%
388	19.650	19.617	19.672	VV	4261	121538	5.16%	0.611%
389	19.689	19.672	19.709	VV	5842	110097	4.68%	0.554%
390	19.724	19.709	19.734	VV	5337	76270	3.24%	0.384%
391	19.766	19.734	19.779	VV	6738	163355	6.94%	0.821%
392	19.789	19.779	19.820	VV	6487	129842	5.52%	0.653%
393	19.850	19.820	19.882	VV	4545	147439	6.26%	0.741%
394	19.902	19.882	19.924	VV	3635	85694	3.64%	0.431%
395	19.971	19.924	20.007	VV	4789	189686	8.06%	0.954%
396	20.044	20.007	20.074	VV	9725	276680	11.75%	1.391%
397	20.091	20.074	20.126	VV	7305	172731	7.34%	0.869%
398	20.165	20.126	20.224	VV	5156	239211	10.16%	1.203%
399	20.262	20.224	20.284	VV	5090	160851	6.83%	0.809%
400	20.306	20.284	20.349	VV	5022	177234	7.53%	0.891%
401	20.434	20.349	20.502	VV	6672	492527	20.92%	2.477%
402	20.538	20.502	20.567	VV	6357	226378	9.62%	1.138%
403	20.587	20.567	20.612	VV	7031	171651	7.29%	0.863%
404	20.621	20.612	20.627	VV	6123	54876	2.33%	0.276%

						rteres		
405	20.657	20.627	20.672	VV	7022	173556	7.37%	0.873%
406	20.707	20.672	20.717	VV	6994	181324	7.70%	0.912%
407	20.810	20.717	20.866	VV	23111	987257	41.94%	4.965%
408	20.889	20.866	20.929	VV	8928	305730	12.99%	1.537%
409	20.972	20.929	20.991	VV	7744	268457	11.40%	1.350%
410	21.025	20.991	21.071	VV	7759	348701	14.81%	1.754%
411	21.080	21.071	21.127	VV	6822	217898	9.26%	1.096%
412	21.168	21.127	21.239	VV	6804	409752	17.41%	2.061%
413	21.249	21.239	21.262	VV	5293	73514	3.12%	0.370%
414	21.286	21.262	21.301	VV	5330	119232	5.06%	0.600%
415	21.307	21.301	21.352	VV	5328	152663	6.49%	0.768%
416	21.363	21.352	21.373	VV	4845	59950	2.55%	0.301%
417	21.384	21.373	21.451	VV	4898	214394	9.11%	1.078%
418	21.471	21.451	21.536	VV	4379	205625	8.73%	1.034%
419	21.611	21.536	21.712	VV	4022	368990	15.67%	1.856%
420	21.725	21.712	21.802	VV	2904	131389	5.58%	0.661%
421	21.836	21.802	21.877	VV	2099	82824	3.52%	0.417%
422	21.923	21.877	21.984	VV	1847	90369	3.84%	0.454%
423	21.992	21.984	22.002	VV	980	9262	0.39%	0.047%
424	22.035	22.002	22.042	VV	829	17828	0.76%	0.090%
425	22.079	22.042	22.162	VV	922	41981	1.78%	0.211%
426	22.170	22.162	22.192	VV	307	2350	0.10%	0.012%
					Sum of corrected areas:		19885113	

FG042425.M Wed Apr 30 02:09:56 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	75.1
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015769.D	1	04/29/25 10:49	04/29/25 16:19	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	3830		511	3770	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.0		37 - 130	60%	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_G\Data\FG042925\
Data File : FG015769.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 16:19
Operator : YP\AJ
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	14.999	1416637	12.032 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

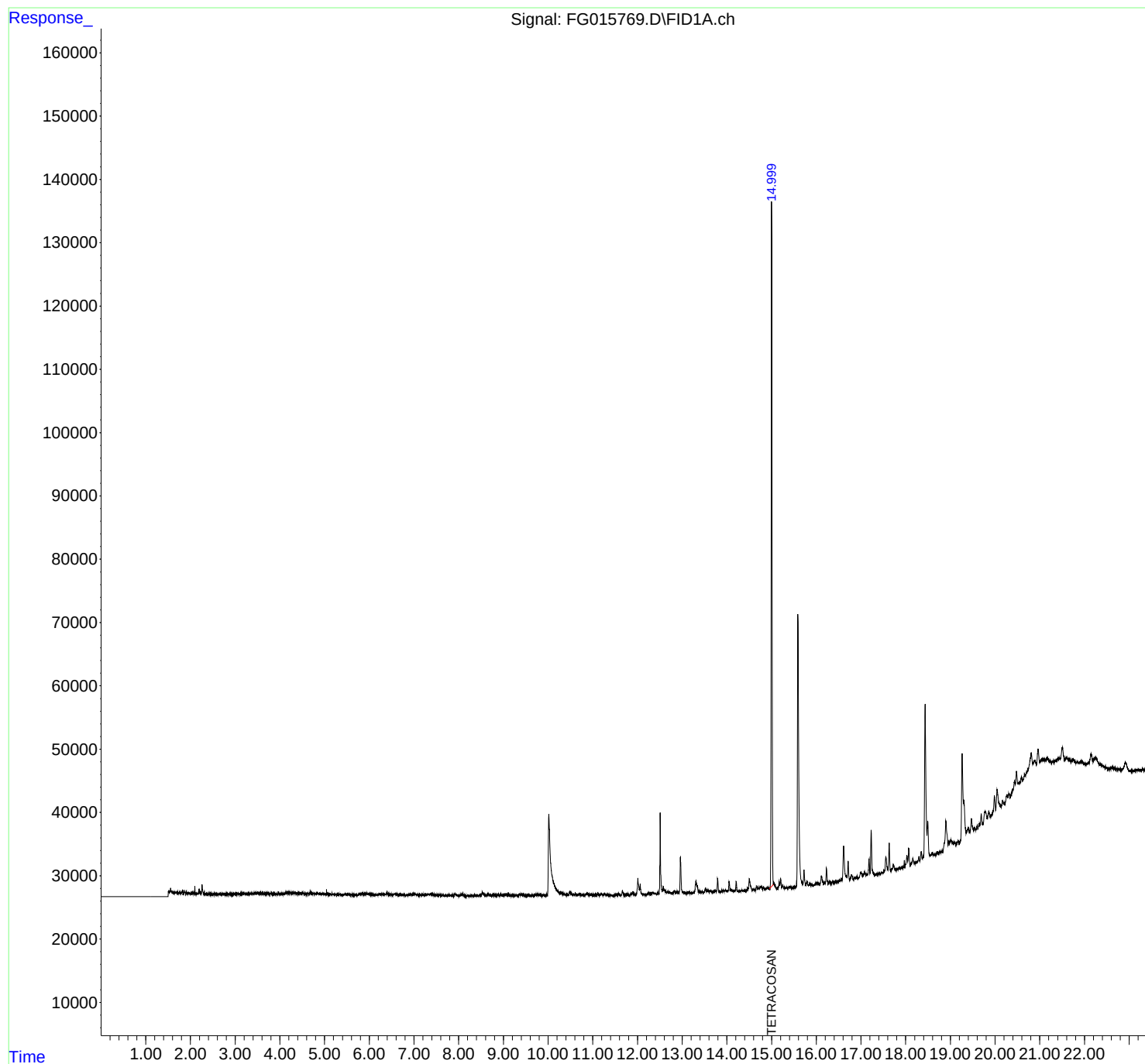
(m)=manual int.

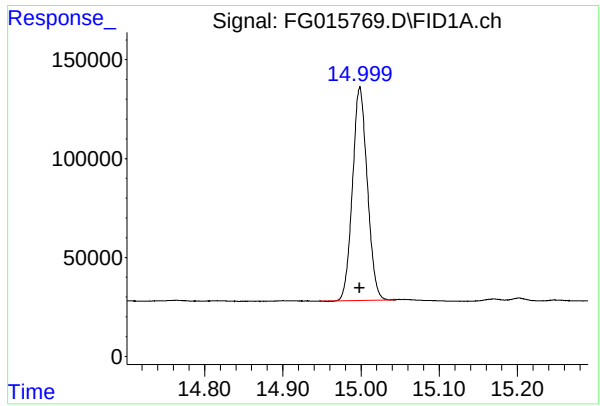
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015769.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 16:19
Operator : YP\AJ
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-170-SB02

Integration File: autoint1.e
Quant Time: Apr 30 01:19:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.999 min
Delta R.T.: 0.000 min
Response: 1416637
Conc: 12.03 ug/ml

Instrument :
FID_G
ClientSampleId :
B-170-SB02

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015769.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 16:19
 Sample : Q1901-05
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.914	1.900	1.925	BV	87	723	0.05%	0.006%
2	1.947	1.925	1.952	PV	144	1125	0.08%	0.009%
3	1.958	1.952	1.984	PV	171	1774	0.12%	0.015%
4	1.987	1.984	2.013	VV	127	1392	0.10%	0.012%
5	2.020	2.013	2.025	VV	93	335	0.02%	0.003%
6	2.046	2.025	2.077	VV	172	3412	0.24%	0.029%
7	2.085	2.077	2.094	VV	123	860	0.06%	0.007%
8	2.095	2.094	2.120	VV	1107	2081	0.14%	0.018%
9	2.125	2.120	2.137	VV	181	939	0.07%	0.008%
10	2.142	2.137	2.152	VV	174	643	0.04%	0.005%
11	2.156	2.152	2.161	VV	70	224	0.02%	0.002%
12	2.189	2.161	2.224	PV	732	11265	0.78%	0.095%
13	2.226	2.224	2.243	VV	424	1963	0.14%	0.017%
14	2.259	2.243	2.287	VV	1457	18126	1.26%	0.153%
15	2.300	2.287	2.321	VV	325	4186	0.29%	0.035%
16	2.326	2.321	2.338	VV	138	865	0.06%	0.007%
17	2.343	2.338	2.350	VV	108	455	0.03%	0.004%
18	2.357	2.350	2.384	VV	113	1620	0.11%	0.014%
19	2.389	2.384	2.397	VV	98	453	0.03%	0.004%
20	2.412	2.397	2.421	PV	115	1086	0.08%	0.009%
21	2.434	2.421	2.444	VV	177	1335	0.09%	0.011%
22	2.452	2.444	2.466	VV	173	1218	0.08%	0.010%
23	2.468	2.466	2.473	VV	140	287	0.02%	0.002%
24	2.488	2.473	2.494	VV	156	1025	0.07%	0.009%
25	2.497	2.494	2.504	VV	145	611	0.04%	0.005%
26	2.512	2.504	2.517	VV	152	750	0.05%	0.006%
27	2.525	2.517	2.565	VV	181	2912	0.20%	0.025%
28	2.582	2.565	2.593	PV	152	1333	0.09%	0.011%
29	2.602	2.593	2.608	VV	145	881	0.06%	0.007%
30	2.611	2.608	2.634	VV	130	1533	0.11%	0.013%
31	2.643	2.634	2.657	VV	148	1256	0.09%	0.011%
32	2.661	2.657	2.692	VV	166	1772	0.12%	0.015%
33	2.715	2.692	2.720	VV	162	1311	0.09%	0.011%
34	2.730	2.720	2.748	VV	153	1425	0.10%	0.012%
35	2.753	2.748	2.761	VV	148	733	0.05%	0.006%
36	2.767	2.761	2.784	VV	131	1380	0.10%	0.012%

					rteres			
37	2.787	2.784	2.796	VV	151	631	0.04%	0.005%
38	2.799	2.796	2.812	VV	185	847	0.06%	0.007%
39	2.820	2.812	2.827	VV	135	954	0.07%	0.008%
40	2.833	2.827	2.839	VV	139	717	0.05%	0.006%
41	2.853	2.839	2.862	VV	135	1225	0.08%	0.010%
42	2.879	2.862	2.884	VV	153	1032	0.07%	0.009%
43	2.891	2.884	2.905	VV	129	1000	0.07%	0.008%
44	2.919	2.905	2.942	VV	163	2058	0.14%	0.017%
45	2.946	2.942	2.959	VV	92	792	0.05%	0.007%
46	2.967	2.959	2.973	VV	149	957	0.07%	0.008%
47	2.975	2.973	2.988	VV	156	938	0.07%	0.008%
48	2.993	2.988	3.013	VV	155	1225	0.08%	0.010%
49	3.017	3.013	3.020	VV	116	435	0.03%	0.004%
50	3.033	3.020	3.044	VV	234	2028	0.14%	0.017%
51	3.047	3.044	3.051	VV	160	579	0.04%	0.005%
52	3.059	3.051	3.080	VV	179	2599	0.18%	0.022%
53	3.085	3.080	3.091	VV	167	946	0.07%	0.008%
54	3.099	3.091	3.114	VV	177	1933	0.13%	0.016%
55	3.117	3.114	3.124	VV	163	797	0.06%	0.007%
56	3.126	3.124	3.131	VV	227	639	0.04%	0.005%
57	3.140	3.131	3.147	VV	235	1453	0.10%	0.012%
58	3.154	3.147	3.170	VV	136	1909	0.13%	0.016%
59	3.188	3.170	3.206	VV	197	3515	0.24%	0.030%
60	3.207	3.206	3.212	VV	185	538	0.04%	0.005%
61	3.218	3.212	3.230	VV	174	1456	0.10%	0.012%
62	3.234	3.230	3.244	VV	170	1178	0.08%	0.010%
63	3.252	3.244	3.280	VV	213	3264	0.23%	0.027%
64	3.288	3.280	3.313	VV	168	2594	0.18%	0.022%
65	3.314	3.313	3.321	VV	199	649	0.05%	0.005%
66	3.330	3.321	3.340	VV	266	1831	0.13%	0.015%
67	3.351	3.340	3.357	VV	243	1663	0.12%	0.014%
68	3.362	3.357	3.371	VV	156	1110	0.08%	0.009%
69	3.377	3.371	3.391	VV	168	1649	0.11%	0.014%
70	3.399	3.391	3.413	VV	194	1781	0.12%	0.015%
71	3.424	3.413	3.435	VV	192	1940	0.13%	0.016%
72	3.447	3.435	3.453	VV	171	1511	0.10%	0.013%
73	3.469	3.453	3.475	VV	232	2267	0.16%	0.019%
74	3.482	3.475	3.495	VV	220	1925	0.13%	0.016%
75	3.504	3.495	3.517	VV	249	2164	0.15%	0.018%
76	3.523	3.517	3.528	VV	183	939	0.07%	0.008%
77	3.551	3.528	3.583	VV	241	6157	0.43%	0.052%
78	3.588	3.583	3.596	VV	253	1296	0.09%	0.011%
79	3.602	3.596	3.614	VV	208	1839	0.13%	0.015%
80	3.618	3.614	3.623	VV	201	807	0.06%	0.007%
81	3.627	3.623	3.667	VV	234	4170	0.29%	0.035%
82	3.668	3.667	3.683	VV	206	1407	0.10%	0.012%
83	3.687	3.683	3.705	VV	166	1577	0.11%	0.013%
84	3.715	3.705	3.741	VV	187	2498	0.17%	0.021%
85	3.765	3.741	3.776	VV	162	2105	0.15%	0.018%
86	3.780	3.776	3.787	PV	67	336	0.02%	0.003%
87	3.791	3.787	3.798	VV	112	737	0.05%	0.006%
88	3.808	3.798	3.831	VV	133	1743	0.12%	0.015%
89	3.835	3.831	3.842	VV	75	260	0.02%	0.002%

					rteres			
90	3.869	3.842	3.877	PV	395	1282	0.09%	0.011%
91	3.881	3.877	3.906	VB	135	1028	0.07%	0.009%
92	3.923	3.910	3.927	BV	90	595	0.04%	0.005%
93	3.932	3.927	3.940	PV	95	463	0.03%	0.004%
94	3.964	3.940	3.979	VV	425	2464	0.17%	0.021%
95	3.981	3.979	4.004	VV	137	1445	0.10%	0.012%
96	4.008	4.004	4.020	VV	122	915	0.06%	0.008%
97	4.024	4.020	4.034	VV	176	992	0.07%	0.008%
98	4.042	4.034	4.053	VV	178	1044	0.07%	0.009%
99	4.056	4.053	4.071	VV	148	1056	0.07%	0.009%
100	4.073	4.071	4.089	VV	110	767	0.05%	0.006%
101	4.121	4.089	4.140	VV	322	5872	0.41%	0.049%
102	4.152	4.140	4.164	VV	379	4380	0.30%	0.037%
103	4.178	4.164	4.213	VV	369	8666	0.60%	0.073%
104	4.222	4.213	4.226	VV	369	2153	0.15%	0.018%
105	4.237	4.226	4.245	VV	348	3141	0.22%	0.026%
106	4.257	4.245	4.267	VV	354	3809	0.26%	0.032%
107	4.274	4.267	4.308	VV	324	6501	0.45%	0.055%
108	4.338	4.308	4.374	VV	361	10108	0.70%	0.085%
109	4.377	4.374	4.383	VV	214	1141	0.08%	0.010%
110	4.392	4.383	4.405	VV	315	2907	0.20%	0.024%
111	4.409	4.405	4.443	VV	270	4384	0.30%	0.037%
112	4.446	4.443	4.462	VV	278	2406	0.17%	0.020%
113	4.465	4.462	4.493	VV	202	3489	0.24%	0.029%
114	4.506	4.493	4.510	VV	353	2872	0.20%	0.024%
115	4.514	4.510	4.530	VV	338	3004	0.21%	0.025%
116	4.533	4.530	4.542	VV	224	1424	0.10%	0.012%
117	4.549	4.542	4.566	VV	230	2804	0.19%	0.024%
118	4.574	4.566	4.593	VV	260	2652	0.18%	0.022%
119	4.597	4.593	4.604	VV	169	928	0.06%	0.008%
120	4.608	4.604	4.612	VV	176	647	0.04%	0.005%
121	4.625	4.612	4.656	VV	260	5062	0.35%	0.043%
122	4.679	4.656	4.710	VV	451	9351	0.65%	0.079%
123	4.713	4.710	4.719	VV	233	1060	0.07%	0.009%
124	4.724	4.719	4.731	VV	241	1522	0.11%	0.013%
125	4.741	4.731	4.759	VV	226	3282	0.23%	0.028%
126	4.768	4.759	4.792	VV	301	4286	0.30%	0.036%
127	4.798	4.792	4.805	VV	202	1371	0.09%	0.012%
128	4.813	4.805	4.828	VV	210	2609	0.18%	0.022%
129	4.840	4.828	4.847	VV	237	2356	0.16%	0.020%
130	4.851	4.847	4.872	VV	226	2866	0.20%	0.024%
131	4.874	4.872	4.893	VV	202	2008	0.14%	0.017%
132	4.907	4.893	4.912	VV	233	1867	0.13%	0.016%
133	4.917	4.912	4.934	VV	203	2379	0.16%	0.020%
134	4.939	4.934	4.961	VV	221	3073	0.21%	0.026%
135	4.965	4.961	4.972	VV	183	1201	0.08%	0.010%
136	4.974	4.972	4.993	VV	206	2100	0.15%	0.018%
137	4.996	4.993	5.006	VV	163	1342	0.09%	0.011%
138	5.010	5.006	5.031	VV	183	2524	0.17%	0.021%
139	5.042	5.031	5.053	VV	739	2731	0.19%	0.023%
140	5.059	5.053	5.065	VV	214	966	0.07%	0.008%
141	5.071	5.065	5.075	VV	170	660	0.05%	0.006%

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142	5.085	5.075	5.102	VV	182	2118	0.15%	0.018%
143	5.110	5.102	5.118	VV	195	1369	0.09%	0.012%
144	5.129	5.118	5.151	VV	157	2333	0.16%	0.020%
145	5.167	5.151	5.185	VV	250	3320	0.23%	0.028%
146	5.188	5.185	5.197	VV	188	890	0.06%	0.007%
147	5.200	5.197	5.212	VV	165	957	0.07%	0.008%
148	5.219	5.212	5.234	VV	178	1507	0.10%	0.013%
149	5.241	5.234	5.262	VV	133	1451	0.10%	0.012%
150	5.266	5.262	5.282	VV	96	853	0.06%	0.007%
151	5.295	5.282	5.319	VV	135	1598	0.11%	0.013%
152	5.322	5.319	5.349	VV	161	1350	0.09%	0.011%
153	5.353	5.349	5.375	VV	128	1127	0.08%	0.009%
154	5.406	5.375	5.419	VV	143	2156	0.15%	0.018%
155	5.423	5.419	5.445	VV	112	1340	0.09%	0.011%
156	5.451	5.445	5.467	VV	167	1326	0.09%	0.011%
157	5.478	5.467	5.491	VV	181	2048	0.14%	0.017%
158	5.495	5.491	5.504	VV	166	1264	0.09%	0.011%
159	5.510	5.504	5.529	VV	208	2099	0.15%	0.018%
160	5.531	5.529	5.548	VV	162	1465	0.10%	0.012%
161	5.552	5.548	5.565	VV	182	1242	0.09%	0.010%
162	5.581	5.565	5.597	VV	160	2066	0.14%	0.017%
163	5.605	5.597	5.634	VV	114	1569	0.11%	0.013%
164	5.645	5.634	5.654	VV	89	870	0.06%	0.007%
165	5.658	5.654	5.662	VV	142	402	0.03%	0.003%
166	5.670	5.662	5.690	VV	133	1485	0.10%	0.013%
167	5.694	5.690	5.698	VV	80	353	0.02%	0.003%
168	5.703	5.698	5.709	VV	117	530	0.04%	0.004%
169	5.713	5.709	5.721	VV	96	338	0.02%	0.003%
170	5.727	5.721	5.733	VV	103	328	0.02%	0.003%
171	5.740	5.733	5.745	PV	80	415	0.03%	0.003%
172	5.751	5.745	5.762	VV	105	777	0.05%	0.007%
173	5.768	5.762	5.772	VV	147	736	0.05%	0.006%
174	5.782	5.772	5.787	VV	392	1541	0.11%	0.013%
175	5.793	5.787	5.802	VV	251	1698	0.12%	0.014%
176	5.819	5.802	5.830	VV	246	3660	0.25%	0.031%
177	5.840	5.830	5.844	VV	302	2032	0.14%	0.017%
178	5.849	5.844	5.856	VV	290	1773	0.12%	0.015%
179	5.864	5.856	5.874	VV	232	2328	0.16%	0.020%
180	5.925	5.874	5.945	VV	340	10763	0.75%	0.091%
181	5.952	5.945	5.991	VV	262	5495	0.38%	0.046%
182	6.003	5.991	6.029	VV	232	4315	0.30%	0.036%
183	6.032	6.029	6.079	VV	162	3827	0.27%	0.032%
184	6.085	6.079	6.106	VV	166	2074	0.14%	0.017%
185	6.114	6.106	6.126	VV	175	1683	0.12%	0.014%
186	6.132	6.126	6.178	VV	138	3090	0.21%	0.026%
187	6.186	6.178	6.206	VV	180	1860	0.13%	0.016%
188	6.221	6.206	6.239	VV	290	4157	0.29%	0.035%
189	6.251	6.239	6.260	VV	192	2130	0.15%	0.018%
190	6.267	6.260	6.302	VV	266	4894	0.34%	0.041%
191	6.334	6.302	6.351	VV	228	5537	0.38%	0.047%
192	6.398	6.351	6.444	VV	689	16478	1.14%	0.139%
193	6.451	6.444	6.483	VV	254	4348	0.30%	0.037%
194	6.489	6.483	6.534	VV	184	4367	0.30%	0.037%

195	6.570	6.534	6.624	VV	299	10441	0.72%	0.088%
196	6.629	6.624	6.674	VV	231	5179	0.36%	0.044%
197	6.688	6.674	6.733	VV	268	5887	0.41%	0.050%
198	6.757	6.733	6.865	VV	189	9465	0.66%	0.080%
199	6.876	6.865	6.889	VV	178	1921	0.13%	0.016%
200	6.914	6.889	6.922	VV	279	3573	0.25%	0.030%
201	6.934	6.922	6.953	VV	247	3310	0.23%	0.028%
202	6.972	6.953	7.009	VV	296	7516	0.52%	0.063%
203	7.018	7.009	7.064	VV	272	6371	0.44%	0.054%
204	7.071	7.064	7.124	VV	153	4283	0.30%	0.036%
205	7.143	7.124	7.194	VV	146	4985	0.35%	0.042%
206	7.201	7.194	7.242	VV	218	4521	0.31%	0.038%
207	7.272	7.242	7.281	VV	219	4379	0.30%	0.037%
208	7.306	7.281	7.368	VV	243	10751	0.75%	0.090%
209	7.405	7.368	7.452	VV	299	10517	0.73%	0.089%
210	7.466	7.452	7.501	VV	144	3900	0.27%	0.033%
211	7.508	7.501	7.531	VV	115	1901	0.13%	0.016%
212	7.537	7.531	7.561	VV	130	1671	0.12%	0.014%
213	7.582	7.561	7.606	VV	194	3009	0.21%	0.025%
214	7.613	7.606	7.624	VV	70	831	0.06%	0.007%
215	7.642	7.624	7.699	VV	186	4453	0.31%	0.037%
216	7.706	7.699	7.716	VV	79	605	0.04%	0.005%
217	7.723	7.716	7.735	VV	114	717	0.05%	0.006%
218	7.763	7.735	7.774	VV	126	1563	0.11%	0.013%
219	7.790	7.774	7.821	VV	130	2353	0.16%	0.020%
220	7.827	7.821	7.851	VV	80	991	0.07%	0.008%
221	7.860	7.851	7.881	VV	72	1241	0.09%	0.010%
222	7.919	7.881	7.936	VV	406	6274	0.43%	0.053%
223	7.949	7.936	7.972	VV	217	3355	0.23%	0.028%
224	7.980	7.972	8.004	VV	148	1589	0.11%	0.013%
225	8.009	8.004	8.022	VV	96	742	0.05%	0.006%
226	8.062	8.022	8.081	VV	304	5868	0.41%	0.049%
227	8.091	8.081	8.151	VV	411	6447	0.45%	0.054%
228	8.164	8.151	8.187	PV	123	1258	0.09%	0.011%
229	8.216	8.187	8.232	VV	106	1804	0.13%	0.015%
230	8.242	8.232	8.253	VV	97	921	0.06%	0.008%
231	8.282	8.253	8.299	VV	128	2596	0.18%	0.022%
232	8.309	8.299	8.318	VV	121	936	0.06%	0.008%
233	8.341	8.318	8.375	VV	153	3199	0.22%	0.027%
234	8.387	8.375	8.397	VV	91	951	0.07%	0.008%
235	8.413	8.397	8.447	VV	150	2884	0.20%	0.024%
236	8.489	8.447	8.504	VV	205	4583	0.32%	0.039%
237	8.528	8.504	8.609	VV	513	17279	1.20%	0.145%
238	8.658	8.609	8.708	VV	375	11970	0.83%	0.101%
239	8.714	8.708	8.737	VV	132	1953	0.14%	0.016%
240	8.759	8.737	8.774	VV	152	3028	0.21%	0.025%
241	8.788	8.774	8.811	VV	155	2820	0.20%	0.024%
242	8.817	8.811	8.834	VV	138	1332	0.09%	0.011%
243	8.879	8.834	8.917	VV	389	8150	0.56%	0.069%
244	8.951	8.917	9.002	VV	221	7255	0.50%	0.061%
245	9.025	9.002	9.044	VV	209	4744	0.33%	0.040%
246	9.061	9.044	9.097	VV	319	6476	0.45%	0.055%

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247	9.106	9.097	9.151	VV	441	3316	0.23%	0.028%
248	9.178	9.151	9.207	VV	156	3331	0.23%	0.028%
249	9.216	9.207	9.236	VV	126	1755	0.12%	0.015%
250	9.255	9.236	9.263	VV	158	1994	0.14%	0.017%
251	9.271	9.263	9.307	VV	142	2653	0.18%	0.022%
252	9.315	9.307	9.337	VV	99	1287	0.09%	0.011%
253	9.354	9.337	9.379	VV	338	5756	0.40%	0.048%
254	9.396	9.379	9.418	VV	346	5602	0.39%	0.047%
255	9.437	9.418	9.479	VV	194	4669	0.32%	0.039%
256	9.486	9.479	9.511	VV	119	1318	0.09%	0.011%
257	9.542	9.511	9.571	VV	198	4623	0.32%	0.039%
258	9.581	9.571	9.604	VV	119	1387	0.10%	0.012%
259	9.620	9.604	9.640	VV	67	846	0.06%	0.007%
260	9.658	9.640	9.672	VV	127	1128	0.08%	0.009%
261	9.683	9.672	9.707	VV	163	1861	0.13%	0.016%
262	9.736	9.707	9.756	VV	290	6091	0.42%	0.051%
263	9.770	9.756	9.798	VV	268	4870	0.34%	0.041%
264	9.806	9.798	9.835	VV	175	3093	0.21%	0.026%
265	9.863	9.835	9.870	VV	177	2365	0.16%	0.020%
266	9.889	9.870	9.937	VV	191	4488	0.31%	0.038%
267	9.965	9.937	9.982	PV	350	3983	0.28%	0.034%
268	10.019	9.982	10.436	VV	12809	559539	38.78%	4.710%
269	10.482	10.436	10.585	VV	649	27055	1.88%	0.228%
270	10.598	10.585	10.639	VV	236	6478	0.45%	0.055%
271	10.652	10.639	10.679	VV	215	4380	0.30%	0.037%
272	10.697	10.679	10.755	VV	317	7766	0.54%	0.065%
273	10.769	10.755	10.779	VV	155	1891	0.13%	0.016%
274	10.791	10.779	10.827	VV	175	3551	0.25%	0.030%
275	10.852	10.827	10.862	VV	319	4827	0.33%	0.041%
276	10.884	10.862	10.924	VV	355	9369	0.65%	0.079%
277	10.946	10.924	10.967	VV	257	4622	0.32%	0.039%
278	10.993	10.967	11.022	VV	217	5076	0.35%	0.043%
279	11.029	11.022	11.039	VV	143	1098	0.08%	0.009%
280	11.065	11.039	11.084	VV	128	2590	0.18%	0.022%
281	11.111	11.084	11.138	VV	235	5678	0.39%	0.048%
282	11.150	11.138	11.158	VV	141	1520	0.11%	0.013%
283	11.191	11.158	11.235	VV	375	11204	0.78%	0.094%
284	11.254	11.235	11.305	VV	340	8725	0.60%	0.073%
285	11.314	11.305	11.381	VV	156	5555	0.38%	0.047%
286	11.391	11.381	11.402	VV	115	1282	0.09%	0.011%
287	11.409	11.402	11.441	VV	111	1218	0.08%	0.010%
288	11.520	11.441	11.546	PV	157	4667	0.32%	0.039%
289	11.579	11.546	11.618	VV	237	6303	0.44%	0.053%
290	11.662	11.618	11.712	VV	772	14555	1.01%	0.123%
291	11.740	11.712	11.758	VV	288	3980	0.28%	0.033%
292	11.777	11.758	11.802	VV	223	3426	0.24%	0.029%
293	11.809	11.802	11.834	VV	54	669	0.05%	0.006%
294	11.867	11.834	11.882	PV	320	6199	0.43%	0.052%
295	11.897	11.882	11.951	VV	626	11554	0.80%	0.097%
296	12.008	11.951	12.044	VV	2628	56894	3.94%	0.479%
297	12.062	12.044	12.209	VV	1784	33755	2.34%	0.284%
298	12.251	12.209	12.277	VV	262	6887	0.48%	0.058%
299	12.304	12.277	12.318	VV	230	4185	0.29%	0.035%

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300	12.344	12.318	12.370	VV	399	8037	0.56%	0.068%
301	12.380	12.370	12.391	VV	225	2332	0.16%	0.020%
302	12.403	12.391	12.435	VV	227	3409	0.24%	0.029%
303	12.456	12.435	12.476	PV	440	5055	0.35%	0.043%
304	12.509	12.476	12.554	VV	12918	152462	10.57%	1.283%
305	12.575	12.554	12.592	VV	1270	18815	1.30%	0.158%
306	12.603	12.592	12.631	VV	775	12784	0.89%	0.108%
307	12.633	12.631	12.687	VV	492	11335	0.79%	0.095%
308	12.699	12.687	12.781	VV	386	12459	0.86%	0.105%
309	12.818	12.781	12.874	VV	510	14456	1.00%	0.122%
310	12.892	12.874	12.917	VV	368	6511	0.45%	0.055%
311	12.960	12.917	13.082	VV	5740	97804	6.78%	0.823%
312	13.148	13.082	13.194	VV	228	8623	0.60%	0.073%
313	13.205	13.194	13.240	PV	134	2053	0.14%	0.017%
314	13.306	13.240	13.384	VV	1899	61058	4.23%	0.514%
315	13.397	13.384	13.446	VV	249	7211	0.50%	0.061%
316	13.453	13.446	13.485	VV	174	2831	0.20%	0.024%
317	13.517	13.485	13.547	VV	635	13276	0.92%	0.112%
318	13.566	13.547	13.612	VV	369	10102	0.70%	0.085%
319	13.635	13.612	13.682	VV	266	8033	0.56%	0.068%
320	13.689	13.682	13.701	VV	144	1345	0.09%	0.011%
321	13.727	13.701	13.759	VV	280	6772	0.47%	0.057%
322	13.792	13.759	13.851	VV	2104	32293	2.24%	0.272%
323	13.915	13.851	13.939	VV	381	10533	0.73%	0.089%
324	13.963	13.939	13.997	VV	393	8233	0.57%	0.069%
325	14.050	13.997	14.077	VV	1593	26221	1.82%	0.221%
326	14.094	14.077	14.137	VV	417	8594	0.60%	0.072%
327	14.144	14.137	14.182	VV	185	3505	0.24%	0.030%
328	14.207	14.182	14.266	VV	1616	23423	1.62%	0.197%
329	14.338	14.266	14.349	PV	192	4627	0.32%	0.039%
330	14.364	14.349	14.377	VV	144	1845	0.13%	0.016%
331	14.388	14.377	14.413	VV	121	1527	0.11%	0.013%
332	14.458	14.413	14.471	VV	350	5551	0.38%	0.047%
333	14.501	14.471	14.578	VV	1891	49275	3.42%	0.415%
334	14.601	14.578	14.635	VV	154	3701	0.26%	0.031%
335	14.661	14.635	14.681	VV	754	10478	0.73%	0.088%
336	14.700	14.681	14.722	VV	421	7988	0.55%	0.067%
337	14.764	14.722	14.797	VV	662	17832	1.24%	0.150%
338	14.817	14.797	14.844	VV	394	7615	0.53%	0.064%
339	14.869	14.844	14.879	VV	191	2891	0.20%	0.024%
340	14.901	14.879	14.957	VV	391	10496	0.73%	0.088%
341	14.999	14.957	15.044	VV	108459	1442783	100.00%	12.144%
342	15.054	15.044	15.136	VV	955	22983	1.59%	0.193%
343	15.170	15.136	15.184	VV	1136	16343	1.13%	0.138%
344	15.202	15.184	15.234	VV	1627	23033	1.60%	0.194%
345	15.249	15.234	15.314	VV	581	10767	0.75%	0.091%
346	15.324	15.314	15.369	VV	136	2665	0.18%	0.022%
347	15.399	15.369	15.444	VV	307	5738	0.40%	0.048%
348	15.454	15.444	15.470	VV	130	1152	0.08%	0.010%
349	15.489	15.470	15.498	VV	134	1170	0.08%	0.010%
350	15.534	15.498	15.548	PV	185	3385	0.23%	0.028%
351	15.587	15.548	15.701	VV	43056	861979	59.74%	7.255%

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352	15.724	15.701	15.764	VV	2683	45080	3.12%	0.379%
353	15.791	15.764	15.827	VV	892	17001	1.18%	0.143%
354	15.856	15.827	15.927	VV	412	12384	0.86%	0.104%
355	16.016	15.927	16.061	VV	391	15138	1.05%	0.127%
356	16.114	16.061	16.174	VV	1377	35104	2.43%	0.295%
357	16.189	16.174	16.198	VV	194	2601	0.18%	0.022%
358	16.227	16.198	16.271	VV	2421	37282	2.58%	0.314%
359	16.291	16.271	16.316	VV	265	4158	0.29%	0.035%
360	16.366	16.316	16.394	PV	295	4882	0.34%	0.041%
361	16.437	16.394	16.450	VV	194	4170	0.29%	0.035%
362	16.461	16.450	16.485	VV	146	1706	0.12%	0.014%
363	16.610	16.485	16.687	VV	5556	142301	9.86%	1.198%
364	16.711	16.687	16.741	VV	2991	42508	2.95%	0.358%
365	16.791	16.741	16.831	VV	731	17019	1.18%	0.143%
366	16.863	16.831	16.884	VV	257	4953	0.34%	0.042%
367	16.909	16.884	16.949	VV	505	7571	0.52%	0.064%
368	16.994	16.949	17.042	PV	904	28843	2.00%	0.243%
369	17.074	17.042	17.119	VV	752	23535	1.63%	0.198%
370	17.179	17.119	17.200	VV	2747	48236	3.34%	0.406%
371	17.227	17.200	17.326	VV	7082	120550	8.36%	1.015%
372	17.334	17.326	17.353	VV	143	1249	0.09%	0.011%
373	17.418	17.353	17.439	PV	146	4011	0.28%	0.034%
374	17.474	17.439	17.490	PV	174	3468	0.24%	0.029%
375	17.513	17.490	17.524	VV	310	4635	0.32%	0.039%
376	17.554	17.524	17.601	VV	2422	55499	3.85%	0.467%
377	17.630	17.601	17.664	VV	4485	64562	4.47%	0.543%
378	17.727	17.664	17.797	VV	886	23632	1.64%	0.199%
379	17.856	17.797	17.879	PV	147	2832	0.20%	0.024%
380	17.901	17.879	17.925	VV	109	1803	0.12%	0.015%
381	18.025	17.925	18.046	PV	1690	36637	2.54%	0.308%
382	18.068	18.046	18.097	VV	2782	41714	2.89%	0.351%
383	18.158	18.097	18.224	VV	987	23788	1.65%	0.200%
384	18.295	18.224	18.317	PV	813	15928	1.10%	0.134%
385	18.345	18.317	18.372	VV	1457	24948	1.73%	0.210%
386	18.387	18.372	18.399	VV	673	7930	0.55%	0.067%
387	18.433	18.399	18.475	VV	24461	492805	34.16%	4.148%
388	18.493	18.475	18.564	VV	5860	110426	7.65%	0.929%
389	18.593	18.564	18.620	VV	603	11797	0.82%	0.099%
390	18.635	18.620	18.656	VV	140	1987	0.14%	0.017%
391	18.706	18.656	18.734	PV	388	4063	0.28%	0.034%
392	18.757	18.734	18.772	VV	120	2179	0.15%	0.018%
393	18.898	18.772	18.949	VV	4543	136557	9.46%	1.149%
394	18.966	18.949	18.977	VV	1065	14865	1.03%	0.125%
395	19.009	18.977	19.080	VV	1192	50361	3.49%	0.424%
396	19.092	19.080	19.124	VV	585	10183	0.71%	0.086%
397	19.171	19.124	19.204	VV	385	9913	0.69%	0.083%
398	19.261	19.204	19.294	PV	13934	299507	20.76%	2.521%
399	19.302	19.294	19.351	VV	6361	123611	8.57%	1.040%
400	19.400	19.351	19.421	VV	1628	54726	3.79%	0.461%
401	19.470	19.421	19.521	VV	2770	85220	5.91%	0.717%
402	19.541	19.521	19.571	VV	997	24420	1.69%	0.206%
403	19.596	19.571	19.614	VV	999	19227	1.33%	0.162%
404	19.643	19.614	19.661	VV	1242	25635	1.78%	0.216%

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405	19.689	19.661	19.729	VV	2598	57730	4.00%	0.486%
406	19.781	19.729	19.824	VV	2592	106388	7.37%	0.895%
407	19.858	19.824	19.902	VV	2123	77531	5.37%	0.653%
408	19.985	19.902	20.012	VV	4096	144609	10.02%	1.217%
409	20.046	20.012	20.131	VV	4828	210323	14.58%	1.770%
410	20.165	20.131	20.205	VV	2681	95090	6.59%	0.800%
411	20.264	20.205	20.284	VV	3162	116804	8.10%	0.983%
412	20.305	20.284	20.342	VV	3146	98033	6.79%	0.825%
413	20.433	20.342	20.451	VV	4618	221844	15.38%	1.867%
414	20.478	20.451	20.507	VV	5907	160812	11.15%	1.354%
415	20.537	20.507	20.550	VV	3942	99743	6.91%	0.840%
416	20.589	20.550	20.624	VV	4596	179217	12.42%	1.508%
417	20.660	20.624	20.679	VV	4574	141374	9.80%	1.190%
418	20.811	20.679	20.844	VV	7359	556548	38.57%	4.684%
419	20.891	20.844	20.924	VV	5838	269375	18.67%	2.267%
420	20.961	20.924	21.000	VV	7246	279398	19.37%	2.352%
421	21.047	21.000	21.056	VV	5456	175866	12.19%	1.480%
422	21.078	21.056	21.095	VV	5270	119813	8.30%	1.008%
423	21.106	21.095	21.134	VV	5070	115445	8.00%	0.972%
424	21.171	21.134	21.262	VV	5132	349031	24.19%	2.938%
425	21.291	21.262	21.299	VV	3994	87965	6.10%	0.740%
426	21.309	21.299	21.319	VV	3906	45995	3.19%	0.387%
427	21.329	21.319	21.337	VV	3783	41524	2.88%	0.350%
428	21.428	21.337	21.444	VV	3866	242781	16.83%	2.043%
429	21.506	21.444	21.564	VV	5175	291625	20.21%	2.455%
430	21.605	21.564	21.653	VV	3271	160568	11.13%	1.351%
431	21.663	21.653	21.686	VV	2574	47864	3.32%	0.403%
432	21.688	21.686	21.697	VV	2372	16125	1.12%	0.136%
433	21.741	21.697	21.829	VV	2408	155260	10.76%	1.307%
434	21.840	21.829	21.898	VV	1566	54791	3.80%	0.461%
435	21.911	21.898	21.922	VV	1281	16622	1.15%	0.140%
436	21.933	21.922	22.027	VV	1176	48396	3.35%	0.407%
437	22.042	22.027	22.054	VV	301	4274	0.30%	0.036%
438	22.147	22.054	22.192	VV	1445	48302	3.35%	0.407%
					Sum of corrected areas:		11880830	

FG042425.M Wed Apr 30 02:10:51 2025



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: PORT06
 ProjectID: Amtrak Sawtooth Bridges 2025
 Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Calibration Sequence : FG042425		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	193935875	114080	FG015756.D
850	102468017	120551	FG015757.D
340	41273634	121393	FG015758.D
170	22173981	130435	FG015759.D
85	10166512	119606	FG015760.D
AVG RF : 121213		% RSD : 4.863	AVG RT : 15.0012

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06
ProjectID: Amtrak Sawtooth Bridges 2025
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901
DataFile: FG015764.D Analyst Name: YP\AJ Analyst Date: 04-29-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	104759568	123247	121213	1.678

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015764.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 12:53
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Apr 30 01:18:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Quant Title :
 QLast Update : Thu Apr 24 12:54:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.002	5379037	45.687 ug/ml
Target Compounds			
1) N-OCTANE	1.975	5034679	44.675 ug/ml
2) N-DECANE	4.502	5426672	48.743 ug/ml
3) N-DODECANE	6.685	5455975	47.608 ug/ml
4) N-TETRADECANE	8.521	5678600	46.864 ug/ml
5) N-HEXADECANE	10.135	5860085	46.678 ug/ml
6) N-OCTADECANE	11.583	6065272	46.281 ug/ml
7) N-EICOSANE	12.897	6196890	45.708 ug/ml
8) N-DOCOSANE	14.099	6088457	45.906 ug/ml
10) N-TETRACOSANE	15.207	6131344	46.140 ug/ml
11) N-HEXACOSANE	16.230	6121914	46.161 ug/ml
12) N-OCTACOSANE	17.183	6137954	46.558 ug/ml
13) N-TRIACONTANE	18.073	6353342	47.655 ug/ml
14) N-DOTRIACONTANE	18.907	6494802	49.267 ug/ml
15) N-TETRATRIACONTANE	19.693	6843550	56.588 ug/ml
16) N-HEXATRIACONTANE	20.435	7050208	65.756 ug/ml
17) N-OCTATRIACONTANE	21.175	7070608	73.401 ug/ml
18) N-TETRACONTANE	22.096	6749216	75.795 ug/ml

(f)=RT Delta > 1/2 Window

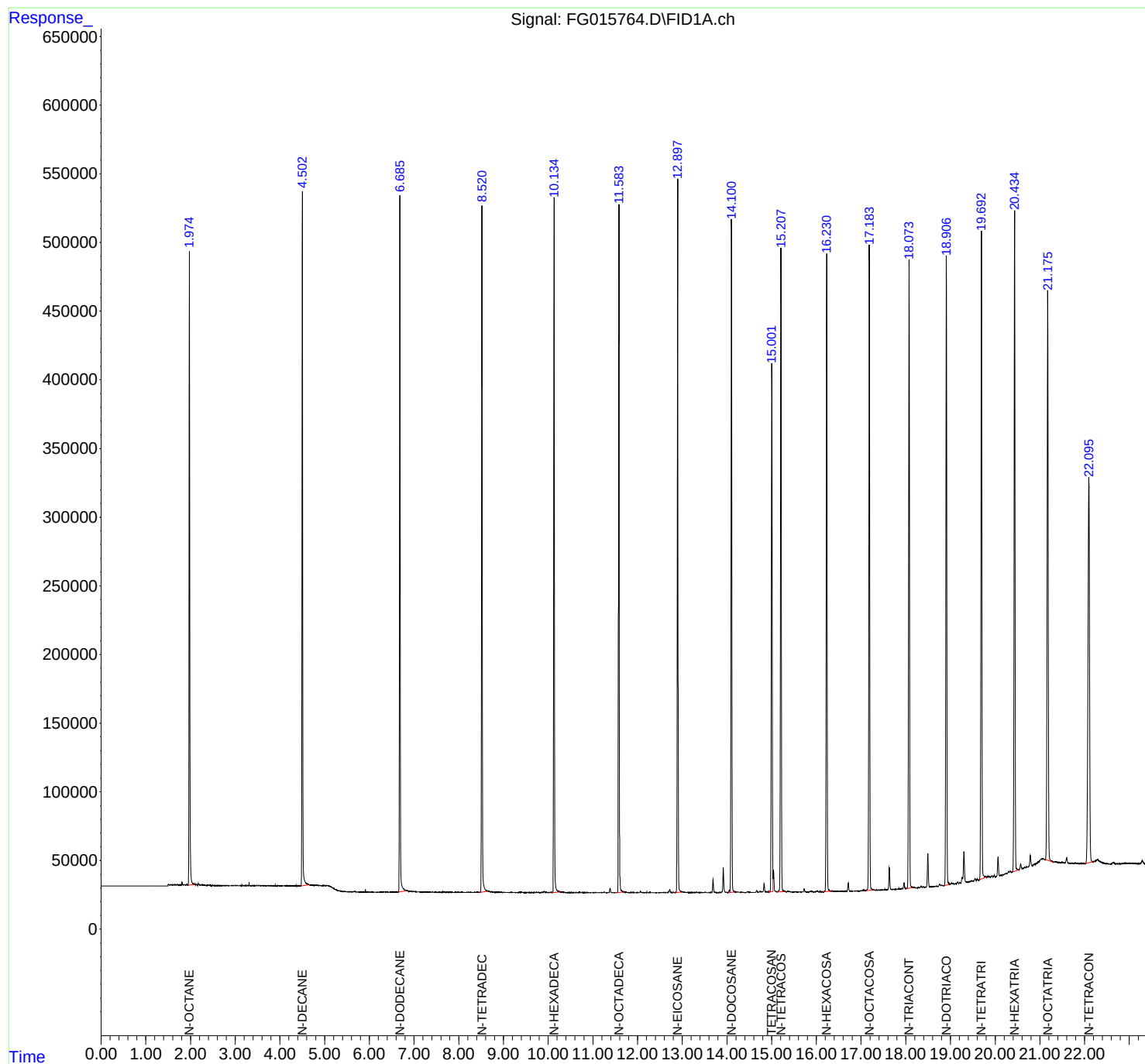
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015764.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 12:53
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Apr 30 01:18:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015764.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 12:53
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.975	1.940	2.102	BB	461629	5034679	71.21%	4.571%
2	4.502	4.470	4.660	BB	504990	5426672	76.75%	4.927%
3	6.685	6.640	6.833	BB	508042	5455975	77.16%	4.954%
4	8.521	8.475	8.652	BB	498793	5678600	80.31%	5.156%
5	10.135	10.086	10.261	BB	505457	5860085	82.88%	5.321%
6	11.583	11.536	11.693	BB	500844	6065272	85.78%	5.507%
7	12.897	12.845	12.996	BB	519403	6196890	87.64%	5.626%
8	14.099	14.064	14.191	VB	487401	6088457	86.11%	5.528%
9	15.002	14.904	15.030	BV	384135	5379037	76.08%	4.884%
10	15.207	15.121	15.308	BB	467293	6131344	86.72%	5.567%
11	16.230	16.159	16.334	BB	464255	6121914	86.58%	5.558%
12	17.183	17.102	17.285	BB	468538	6137954	86.81%	5.573%
13	18.073	18.003	18.167	BB	456744	6353342	89.86%	5.768%
14	18.907	18.852	18.986	BV	453286	6494802	91.86%	5.897%
15	19.693	19.640	19.803	BB	465929	6843550	96.79%	6.214%
16	20.435	20.390	20.524	BV	479306	7050208	99.71%	6.401%
17	21.175	21.120	21.300	BB	414771	7070608	100.00%	6.420%
18	22.096	22.007	22.192	BV	280620	6749216	95.45%	6.128%
Sum of corrected areas:						110138606		

FG042425.M Wed Apr 30 02:03:02 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06
ProjectID: Amtrak Sawtooth Bridges 2025
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901
DataFile: FG015772.D Analyst Name: YP\AJ Analyst Date: 04-29-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	103719858	122023	121213	0.668

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015772.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 18:16
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Apr 30 01:20:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Quant Title :
 QLast Update : Thu Apr 24 12:54:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.004	5301024	45.024 ug/ml
Target Compounds			
1) N-OCTANE	1.975	5006181	44.422 ug/ml
2) N-DECANE	4.504	5468799	49.121 ug/ml
3) N-DODECANE	6.686	5705679	49.787 ug/ml
4) N-TETRADECANE	8.522	5849850	48.277 ug/ml
5) N-HEXADECANE	10.136	5944237	47.348 ug/ml
6) N-OCTADECANE	11.584	6096130	46.517 ug/ml
7) N-EICOSANE	12.900	6181083	45.591 ug/ml
8) N-DOCOSANE	14.103	6023285	45.414 ug/ml
10) N-TETRACOSANE	15.209	6024105	45.333 ug/ml
11) N-HEXACOSANE	16.233	5973249	45.040 ug/ml
12) N-OCTACOSANE	17.187	5941061	45.065 ug/ml
13) N-TRIACONTANE	18.076	6135793	46.023 ug/ml
14) N-DOTRIACONTANE	18.911	6228685	47.249 ug/ml
15) N-TETRATRIACONTANE	19.695	6500692	53.753 ug/ml
16) N-HEXATRIACONTANE	20.436	6731133	62.780 ug/ml
17) N-OCTATRIACONTANE	21.178	6991511	72.580 ug/ml
18) N-TETRACONTANE	22.100	6918385	77.695 ug/ml

(f)=RT Delta > 1/2 Window

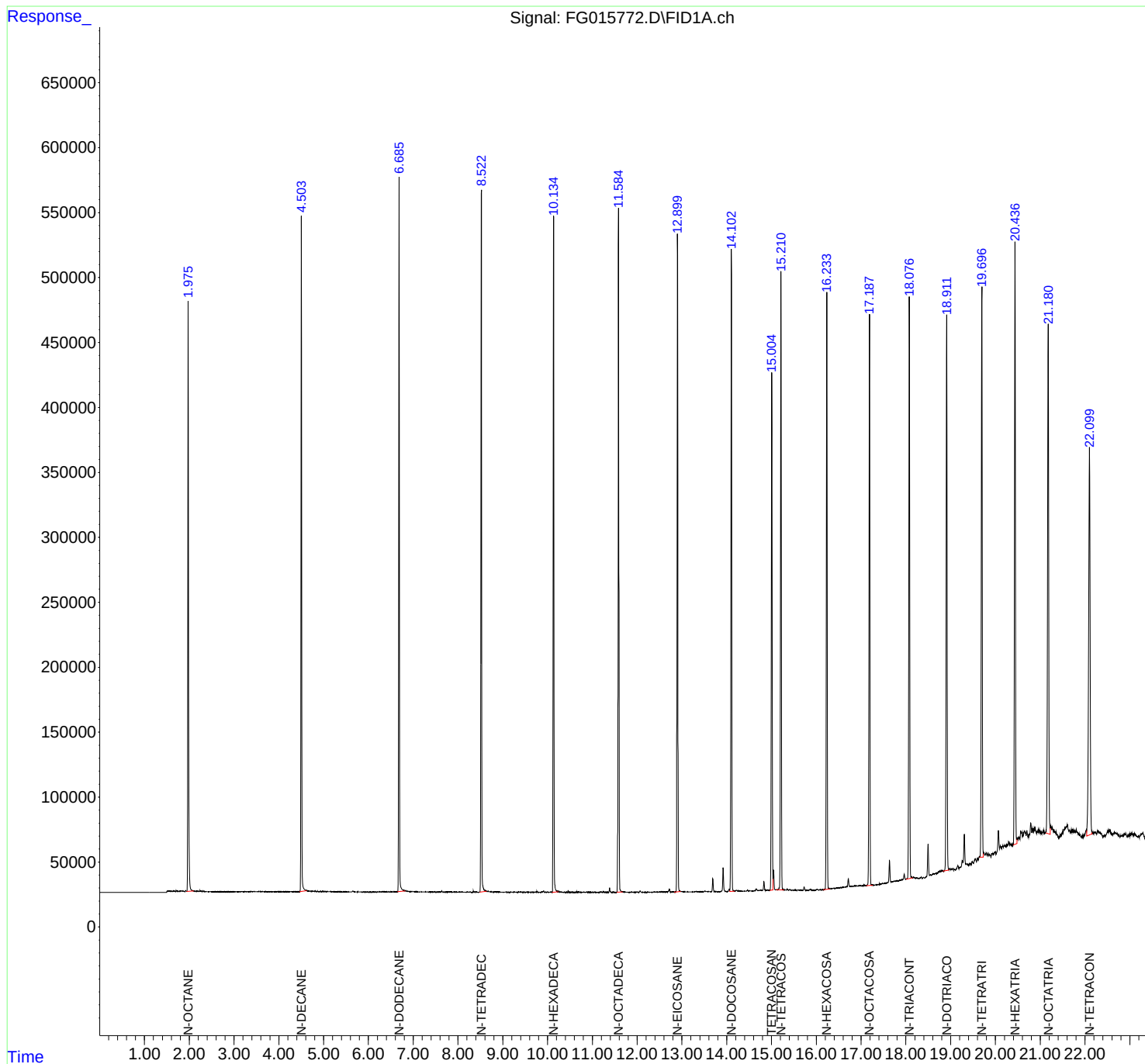
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015772.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 18:16
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Apr 30 01:20:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015772.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 18:16
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.975	1.944	2.099	BB	453446	5006181	71.60%	4.592%
2	4.504	4.459	4.623	BB	520084	5468799	78.22%	5.016%
3	6.686	6.644	6.821	BB	549000	5705679	81.61%	5.234%
4	8.522	8.483	8.645	BB	540146	5849850	83.67%	5.366%
5	10.136	10.100	10.245	BB	519899	5944237	85.02%	5.452%
6	11.584	11.544	11.677	BB	526473	6096130	87.19%	5.592%
7	12.900	12.823	12.977	BB	505998	6181083	88.41%	5.670%
8	14.103	14.067	14.175	VB	491016	6023285	86.15%	5.525%
9	15.004	14.956	15.032	BV	397748	5301024	75.82%	4.862%
10	15.209	15.099	15.279	BB	472930	6024105	86.16%	5.526%
11	16.233	16.155	16.306	BB	459131	5973249	85.44%	5.479%
12	17.187	17.108	17.258	BB	437138	5941061	84.98%	5.449%
13	18.076	18.003	18.160	BB	447325	6135793	87.76%	5.628%
14	18.911	18.833	18.954	BV	423403	6228685	89.09%	5.713%
15	19.695	19.654	19.727	VV	436881	6500692	92.98%	5.963%
16	20.436	20.391	20.479	BV	461773	6731133	96.28%	6.174%
17	21.178	21.121	21.225	BV	390214	6991511	100.00%	6.413%
18	22.100	22.038	22.153	VV	298765	6918385	98.95%	6.346%
Sum of corrected areas:						109020881		

FG042425.M Wed Apr 30 02:05:06 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: PORT06
ProjectID: Amtrak Sawtooth Bridges 2025
Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901
DataFile: FG015781.D Analyst Name: YP\AJ Analyst Date: 04-29-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	104113155	122486	121213	1.05

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015781.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 23:40
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Apr 30 01:23:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Quant Title :
 QLast Update : Thu Apr 24 12:54:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.009	5308380	45.087 ug/ml
Target Compounds			
1) N-OCTANE	1.975	5103806	45.288 ug/ml
2) N-DECANE	4.505	5626388	50.536 ug/ml
3) N-DODECANE	6.688	5835672	50.921 ug/ml
4) N-TETRADECANE	8.525	5969226	49.262 ug/ml
5) N-HEXADECANE	10.139	6046342	48.162 ug/ml
6) N-OCTADECANE	11.588	6191105	47.241 ug/ml
7) N-EICOSANE	12.903	6257756	46.157 ug/ml
8) N-DOCOSANE	14.106	6066038	45.737 ug/ml
10) N-TETRACOSANE	15.214	6030928	45.384 ug/ml
11) N-HEXACOSANE	16.237	5933836	44.743 ug/ml
12) N-OCTACOSANE	17.190	5859603	44.447 ug/ml
13) N-TRIACONTANE	18.081	6031008	45.237 ug/ml
14) N-DOTRIACONTANE	18.916	6072894	46.067 ug/ml
15) N-TETRATRIACONTANE	19.702	6366173	52.641 ug/ml
16) N-HEXATRIACONTANE	20.443	6650635	62.030 ug/ml
17) N-OCTATRIACONTANE	21.187	7023139	72.908 ug/ml
18) N-TETRACONTANE	22.107	7048606	79.157 ug/ml

(f)=RT Delta > 1/2 Window

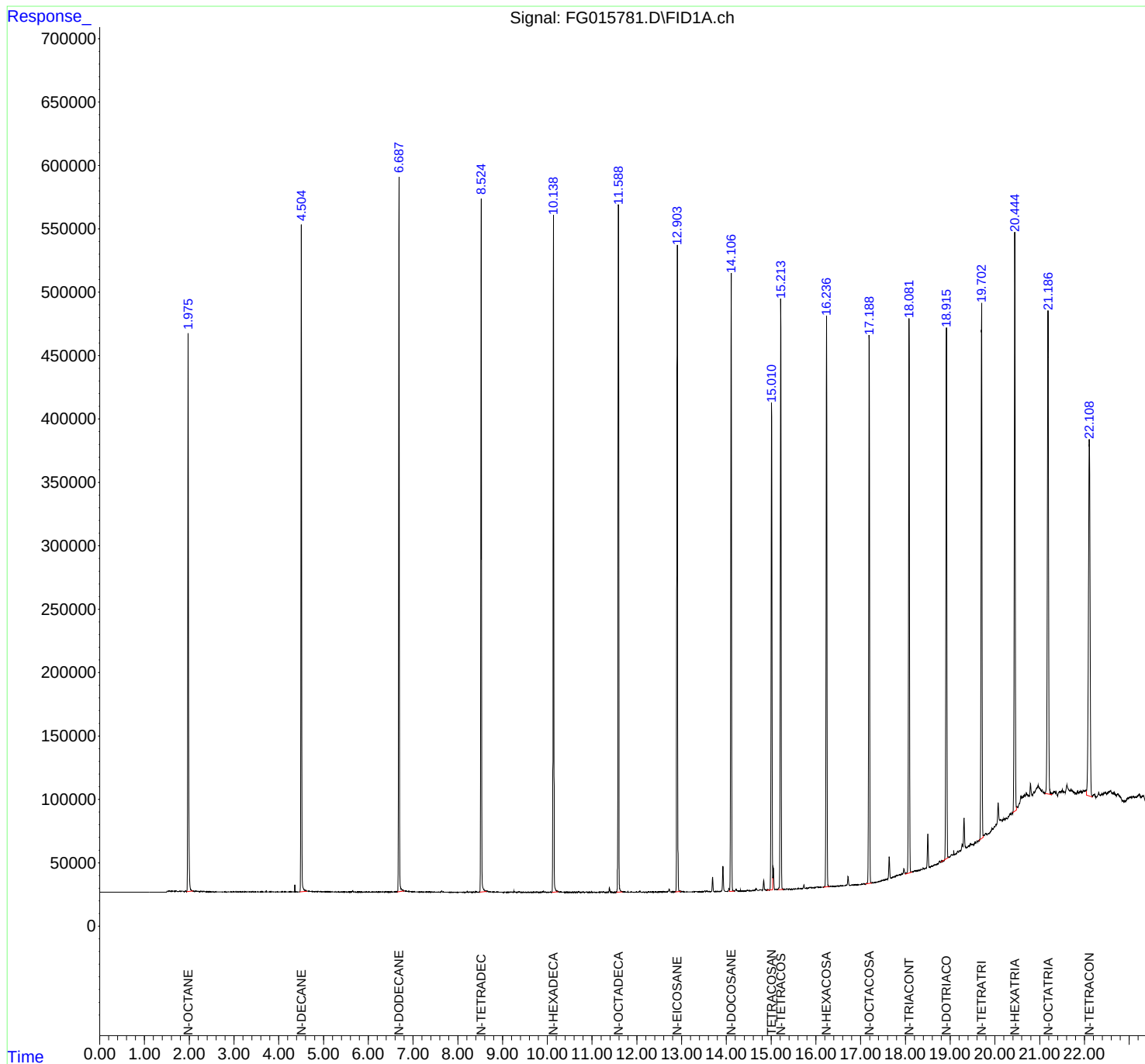
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015781.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 23:40
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Apr 30 01:23:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015781.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 23:40
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.975	1.943	2.090	BB	440324	5103806	72.41%	4.664%
2	4.505	4.463	4.635	BB	526336	5626388	79.82%	5.142%
3	6.688	6.647	6.810	BB	561873	5835672	82.79%	5.333%
4	8.525	8.484	8.646	BB	546408	5969226	84.69%	5.455%
5	10.139	10.103	10.244	BB	533255	6046342	85.78%	5.526%
6	11.588	11.547	11.682	BB	541695	6191105	87.83%	5.658%
7	12.903	12.856	12.978	BB	509868	6257756	88.78%	5.719%
8	14.106	14.070	14.178	VB	487008	6066038	86.06%	5.544%
9	15.009	14.904	15.036	BV	383837	5308380	75.31%	4.851%
10	15.214	15.146	15.277	PB	464093	6030928	85.56%	5.512%
11	16.237	16.164	16.308	BB	449445	5933836	84.18%	5.423%
12	17.190	17.104	17.250	BB	430521	5859603	83.13%	5.355%
13	18.081	18.001	18.151	VB	431980	6031008	85.56%	5.512%
14	18.916	18.787	18.964	PB	417985	6072894	86.16%	5.550%
15	19.702	19.640	19.737	BV	417461	6366173	90.32%	5.818%
16	20.443	20.390	20.481	BV	457695	6650635	94.35%	6.078%
17	21.187	21.120	21.270	BV	380604	7023139	99.64%	6.418%
18	22.107	22.044	22.175	VV	280036	7048606	100.00%	6.442%
Sum of corrected areas:						109421535		

FG042425.M Wed Apr 30 02:07:33 2025

Analytical Sequence

Client: Portal Partners Tri-Venture

SDG No.: Q1901

Project: Amtrak Sawtooth Bridges 2025

Instrument ID: FID_G

GC Column: RXI-1MS **ID:** 0.18 (mm)

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.0012					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	29 Apr 2025 12:24	FG015763.D	15.000	
50 PPM TRPH STD	50 PPM TRPH STD	29 Apr 2025 12:53	FG015764.D	15.002	
B-167-SB01	Q1901-02	29 Apr 2025 14:51	FG015766.D	14.999	
B-170-SB01	Q1901-03	29 Apr 2025 15:20	FG015767.D	14.950	
B-167-SB02	Q1901-04	29 Apr 2025 15:49	FG015768.D	15.000	
B-170-SB02	Q1901-05	29 Apr 2025 16:19	FG015769.D	14.999	
PIBLK02	LBLK02	29 Apr 2025 17:17	FG015771.D	15.002	
50 PPM TRPH STD	50 PPM TRPH STD	29 Apr 2025 18:16	FG015772.D	15.004	
PB167783BL	PB167783BL	29 Apr 2025 19:15	FG015773.D	15.002	
PB167783BS	PB167783BS	29 Apr 2025 19:44	FG015774.D	15.001	
AU-6-042425MS	Q1877-01MS	29 Apr 2025 20:43	FG015776.D	14.952	
AU-6-042425MSD	Q1877-01MSD	29 Apr 2025 21:13	FG015777.D	14.958	
PIBLK03	LBLK03	29 Apr 2025 22:41	FG015780.D	15.007	
50 PPM TRPH STD	50 PPM TRPH STD	29 Apr 2025 23:40	FG015781.D	15.009	



QC SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167783BL	SDG No.:	Q1901
Lab Sample ID:	PB167783BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015773.D	1	04/29/25 10:49	04/29/25 19:15	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	15.3		37 - 130	77%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015773.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:15
Operator : YP\AJ
Sample : PB167783BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167783BL

Integration File: autoint1.e
Quant Time: Apr 30 01:20:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.002	1807045	15.348 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

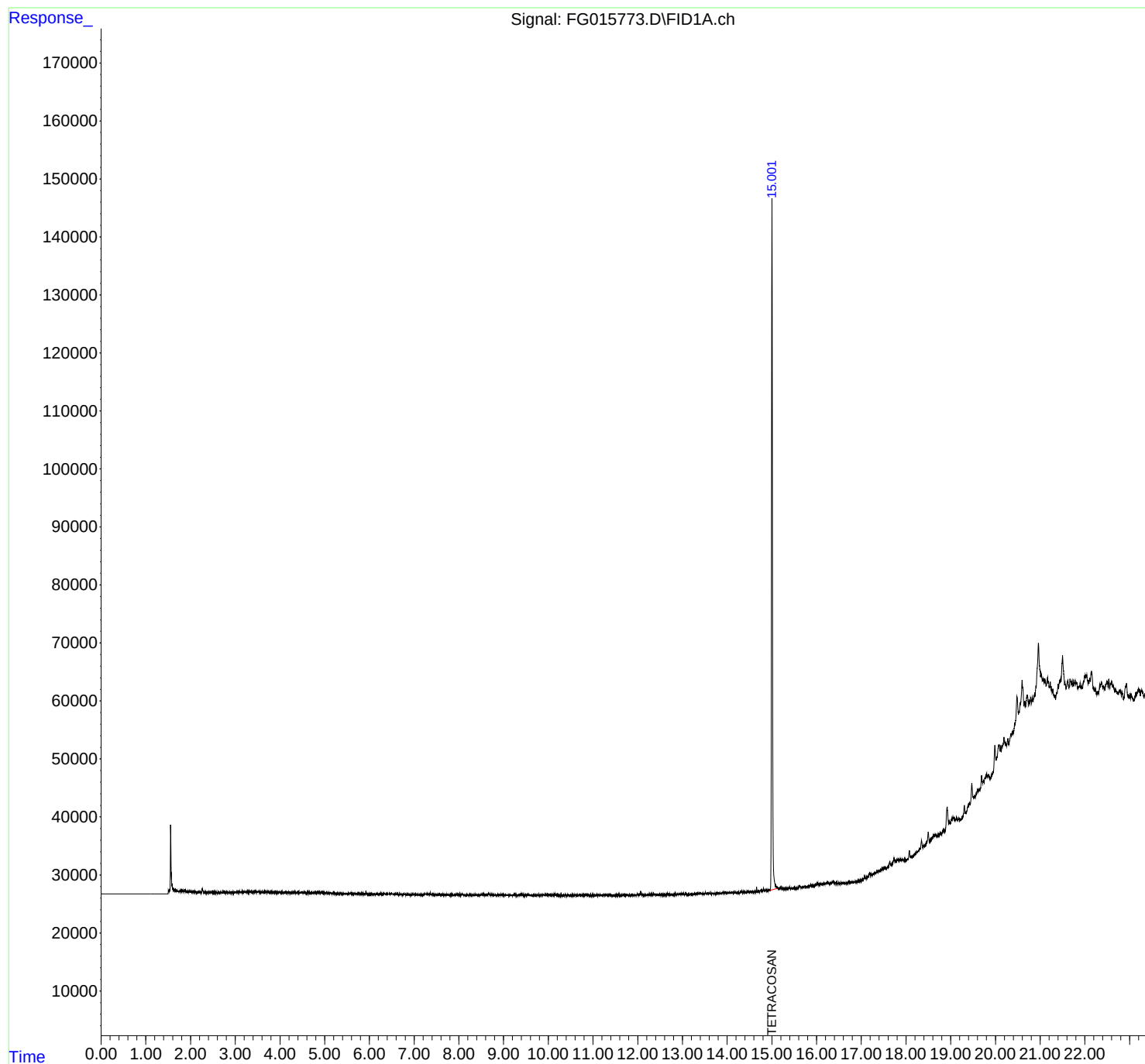
(m)=manual int.

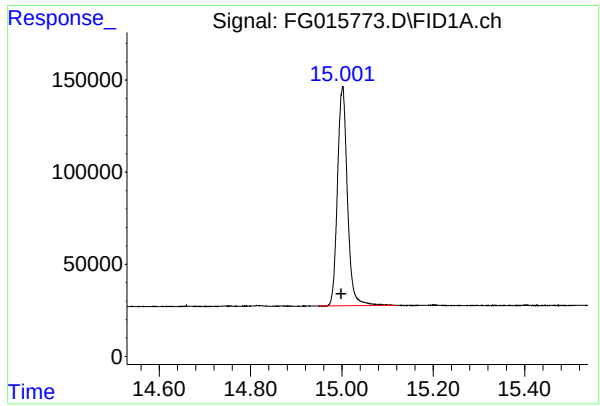
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015773.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:15
Operator : YP\AJ
Sample : PB167783BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167783BL

Integration File: autoint1.e
Quant Time: Apr 30 01:20:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.002 min
Delta R.T.: 0.003 min
Response: 1807045
Conc: 15.35 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167783BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015773.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:15
Sample : PB167783BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.002	14.950	15.118	BB	119217	1807045	100.00%	100.000%
Sum of corrected areas:						1807045		

FG042425.M Wed Apr 30 02:05:27 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-FG015763.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-FG015763.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015763.D	1		04/29/25	FG042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.5		29 - 130	93%	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_G\Data\FG042925\
Data File : FG015763.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 12:24
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Apr 30 01:17:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.000	2180119	18.517 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

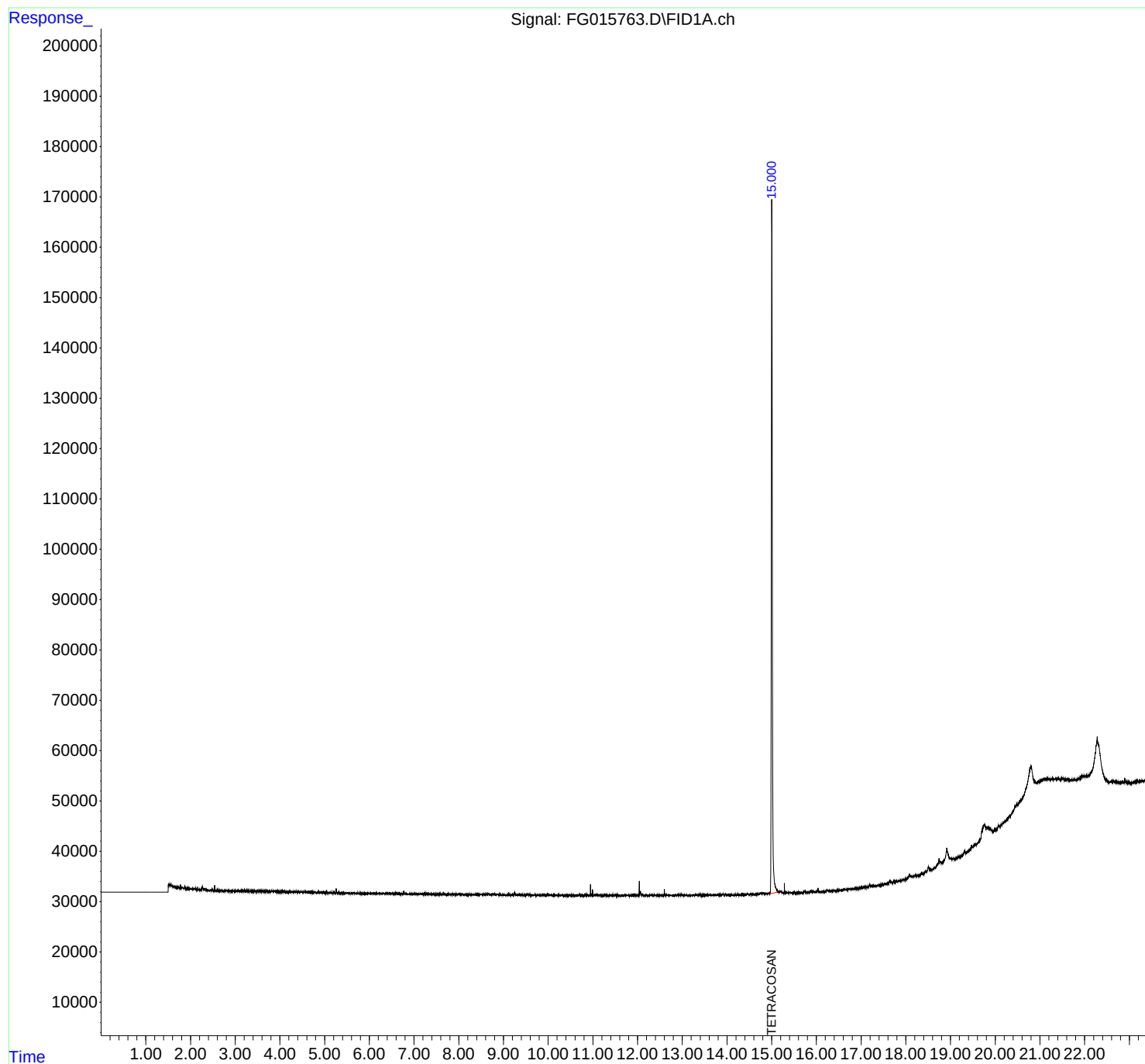
(m)=manual int.

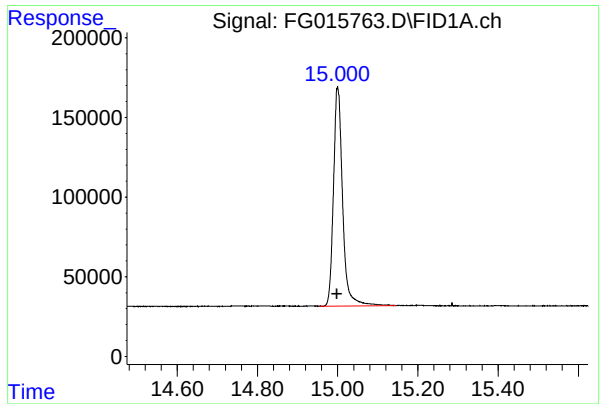
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015763.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 12:24
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Apr 30 01:17:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.000 min
Delta R.T.: 0.001 min
Response: 2180119
Conc: 18.52 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015763.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 12:24
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.000	14.954	15.145	BB	137423	2180119	100.00%	100.000%
Sum of corrected areas:						2180119		

FG042425.M Wed Apr 30 02:01:50 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-FG015771.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-FG015771.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015771.D	1		04/29/25	FG042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.0		29 - 130	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_G\Data\FG042925\
Data File : FG015771.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 17:17
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Apr 30 01:20:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.002	2115805	17.971 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

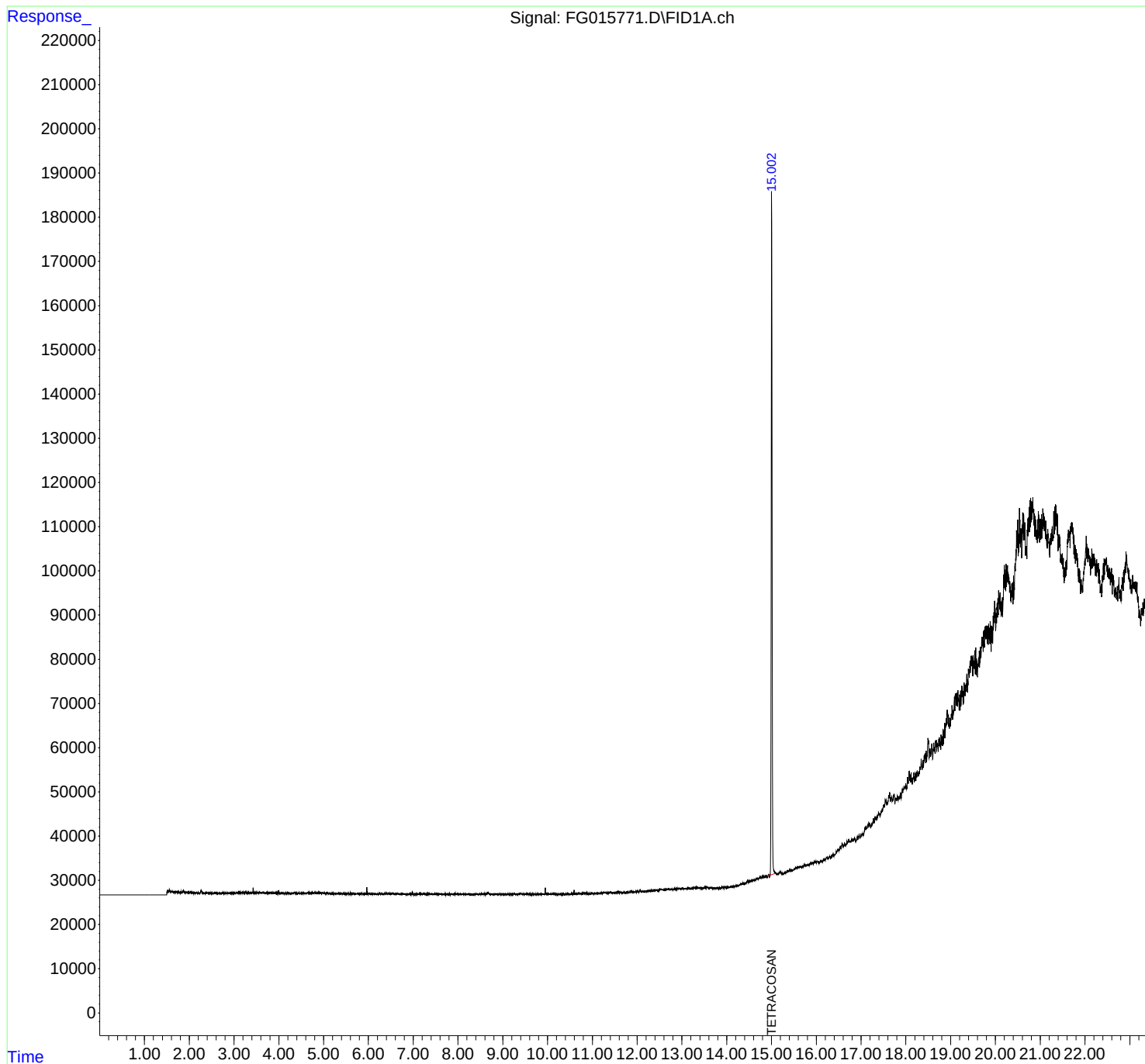
(m)=manual int.

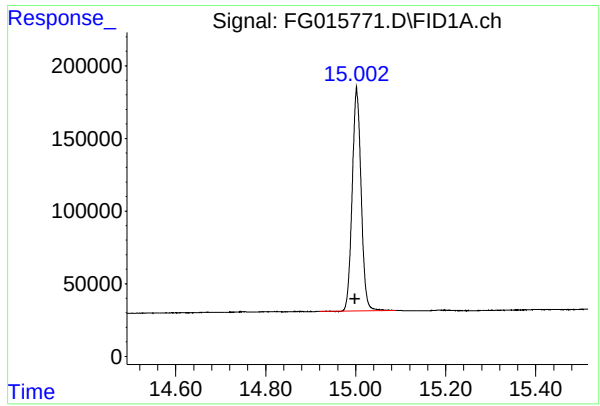
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015771.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 17:17
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Apr 30 01:20:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.002 min
Delta R.T.: 0.004 min
Response: 2115805
Conc: 17.97 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015771.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 17:17
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.002	14.919	15.090	BB	154113	2115805	100.00%	100.000%
Sum of corrected areas:						2115805		

FG042425.M Wed Apr 30 02:03:50 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/29/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/29/25
Client Sample ID:	PIBLK-FG015780.D	SDG No.:	Q1901
Lab Sample ID:	I.BLK-FG015780.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015780.D	1		04/29/25	FG042925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.1		29 - 130	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_G\Data\FG042925\
Data File : FG015780.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 22:41
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Apr 30 01:23:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.007	2129716	18.089 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

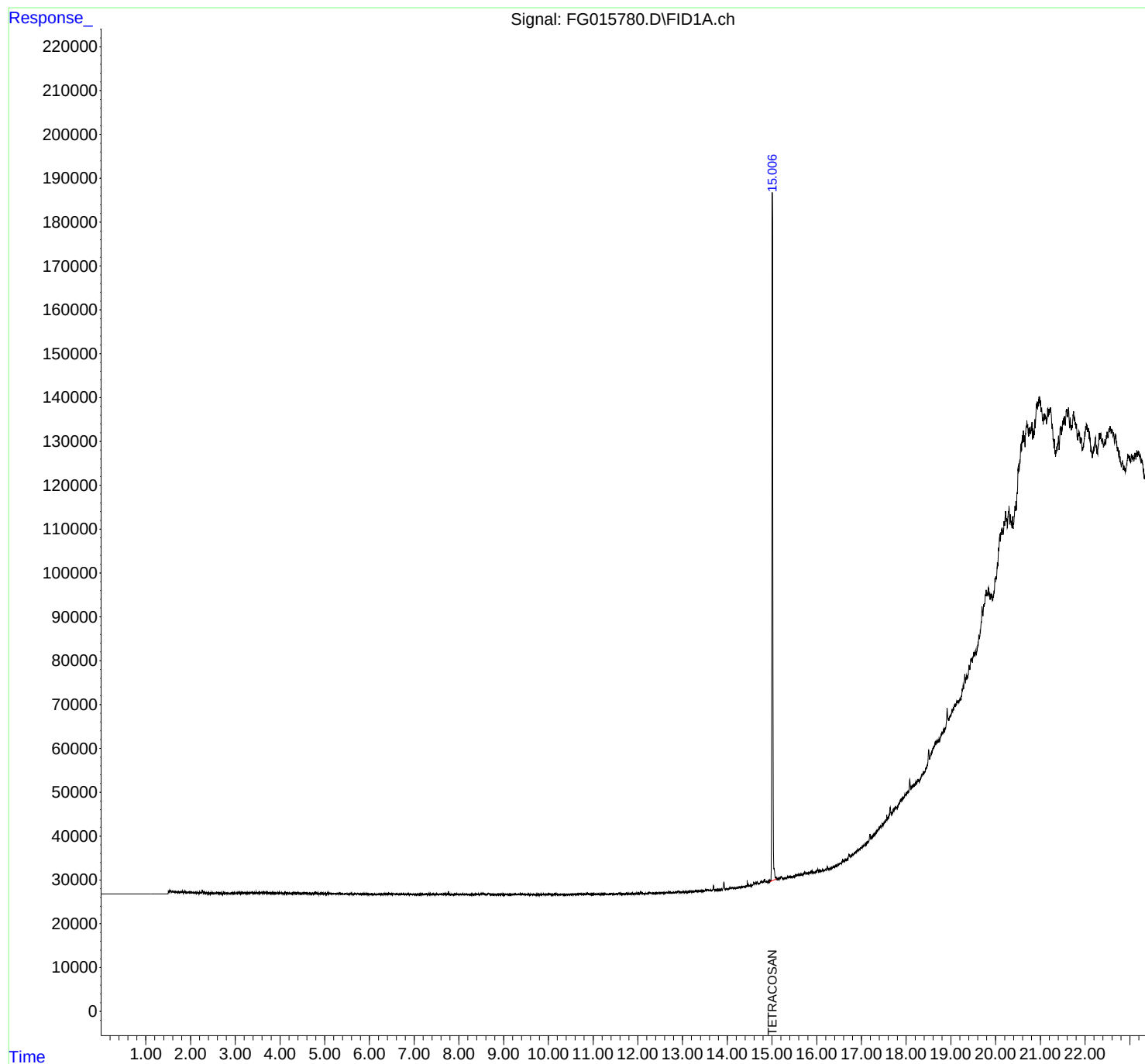
(m)=manual int.

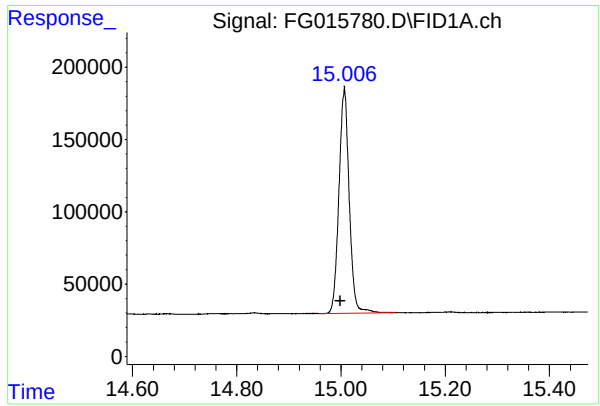
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015780.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 22:41
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Apr 30 01:23:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.007 min
Delta R.T.: 0.008 min
Response: 2129716
Conc: 18.09 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015780.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 22:41
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.007	14.958	15.105	BB	156841	2129716	100.00%	100.000%
Sum of corrected areas:						2129716		

FG042425.M Wed Apr 30 02:06:29 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167783BS	SDG No.:	Q1901
Lab Sample ID:	PB167783BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015774.D	1	04/29/25 10:49	04/29/25 19:44	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	8210		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.1		37 - 130	86%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
 Data File : FG015774.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 19:44
 Operator : YP\AJ
 Sample : PB167783BS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB167783BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/30/2025
 Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
 Quant Time: Apr 30 01:21:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Quant Title :
 QLast Update : Thu Apr 24 12:54:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.001	2013184	17.099 ug/ml
Target Compounds			
1) N-OCTANE	1.977	1394866	12.377 ug/ml
2) N-DECANE	4.502	1772371	15.919 ug/ml
3) N-DODECANE	6.684	1965183	17.148 ug/ml
4) N-TETRADECANE	8.520	2061508	17.013 ug/ml
5) N-HEXADECANE	10.134	2190067	17.445 ug/ml
6) N-OCTADECANE	11.582	2317222	17.682 ug/ml
7) N-EICOSANE	12.896	2297470	16.946 ug/ml
8) N-DOCOSANE	14.098	2285842	17.235 ug/ml
10) N-TETRACOSANE	15.204	2292947	17.255 ug/ml
11) N-HEXACOSANE	16.229	2256090	17.012 ug/ml
12) N-OCTACOSANE	17.181	2223261	16.864 ug/ml
13) N-TRIACONTANE	18.071	2143837	16.080 ug/ml
14) N-DOTRIACONTANE	18.905	1815943	13.775 ug/mlm
15) N-TETRATRIACONTANE	19.690	1121884	9.277 ug/ml
16) N-HEXATRIACONTANE	20.430	681475	6.356 ug/ml
17) N-OCTATRIACONTANE	21.171	568438	5.901 ug/ml
18) N-TETRACONTANE	22.091	531910	5.973 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015774.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:44
Operator : YP\AJ
Sample : PB167783BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :

FID_G

Client Sample Id :

PB167783BS

Manual Integrations

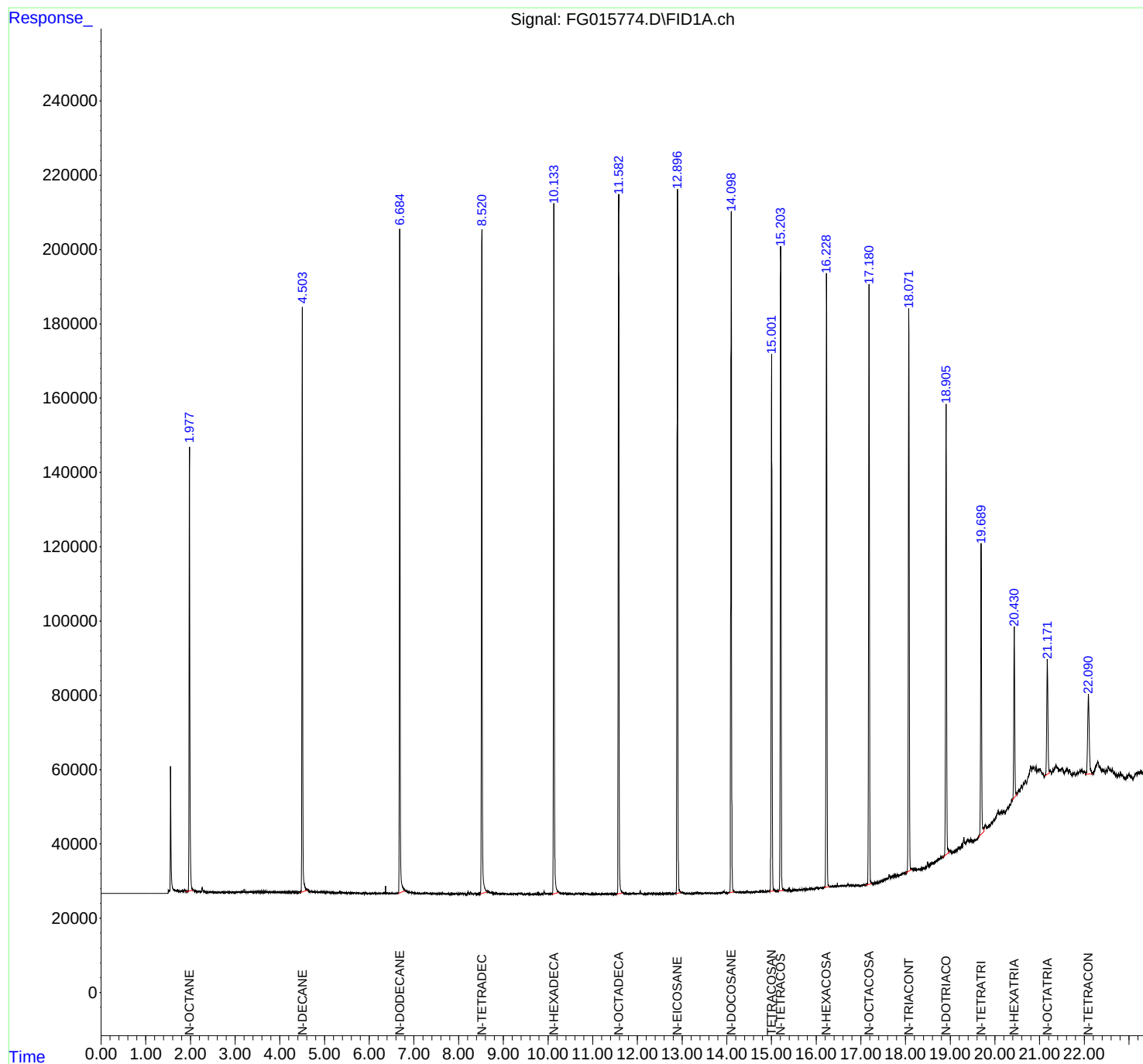
APPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
Quant Time: Apr 30 01:21:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Instrument :

FID_G

ClientSampleId :

PB167783BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04292
Data File : FG015774.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 19:44
Sample : PB167783BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.977	1.898	2.063	BB	119159	1394866	60.20%	4.372%
2	4.502	4.463	4.618	BB	157404	1772371	76.49%	5.555%
3	6.684	6.653	6.803	BB	178896	1965183	84.81%	6.159%
4	8.520	8.484	8.640	BB	178798	2061508	88.96%	6.461%
5	10.134	10.101	10.238	BB	185394	2190067	94.51%	6.864%
6	11.582	11.545	11.674	BB	187704	2317222	100.00%	7.263%
7	12.896	12.857	12.974	BB	189296	2297470	99.15%	7.201%
8	14.098	14.048	14.166	BB	182656	2285842	98.65%	7.164%
9	15.001	14.953	15.071	BV	144320	2013184	86.88%	6.310%
10	15.204	15.154	15.279	BB	172894	2292947	98.95%	7.187%
11	16.229	16.178	16.295	BB	162940	2256090	97.36%	7.071%
12	17.181	17.107	17.247	BB	159435	2223261	95.95%	6.968%
13	18.071	18.008	18.141	BB	150395	2143837	92.52%	6.719%
14	18.905	18.518	18.973	PB	120664	1788636	77.19%	5.606%
15	19.690	19.640	19.755	BV	78275	1121884	48.42%	3.516%
16	20.430	20.390	20.490	BB	45831	681475	29.41%	2.136%
17	21.171	21.120	21.220	BV	30733	568438	24.53%	1.782%
18	22.091	22.024	22.180	PV	21443	531910	22.95%	1.667%
Sum of corrected areas:						31906190		

FG042425.M Wed Apr 30 02:06:00 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/24/25
Client Sample ID:	AU-6-042425MS	SDG No.:	Q1901
Lab Sample ID:	Q1877-01MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	93.5
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015776.D	1	04/29/25 10:49	04/29/25 20:43	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	135000	E	409	3020	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.3		37 - 130	71%	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_G\Data\FG042925\
 Data File : FG015776.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 20:43
 Operator : YP\AJ
 Sample : Q1877-01MS
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 AU-6-042425MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/30/2025
 Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
 Quant Time: Apr 30 01:22:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Quant Title :
 QLast Update : Thu Apr 24 12:54:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.005	1681540	14.282 ug/ml
Target Compounds			
1) N-OCTANE	1.976	1358905	12.058 ug/ml
2) N-DECANE	4.504	2159422	19.396 ug/ml
3) N-DODECANE	6.688	5192621	45.310 ug/ml
4) N-TETRADECANE	8.527	7021700	57.948 ug/mlm
5) N-HEXADECANE	10.141	8216759	65.450 ug/mlm
6) N-OCTADECANE	11.591	7270832	55.480 ug/mlm
7) N-EICOSANE	12.904	5660794	41.754 ug/mlm
8) N-DOCOSANE	14.104	3904649	29.440 ug/mlm
10) N-TETRACOSANE	15.211	2969454	22.346 ug/ml
11) N-HEXACOSANE	16.234	2563021	19.326 ug/ml
12) N-OCTACOSANE	17.187	2479545	18.808 ug/ml
13) N-TRIACONTANE	18.077	2516947	18.879 ug/ml
14) N-DOTRIACONTANE	18.913	2244921	17.029 ug/ml
15) N-TETRATRIACONTANE	19.699	1461208	12.082 ug/ml
16) N-HEXATRIACONTANE	20.441	1107009	10.325 ug/ml
17) N-OCTATRIACONTANE	21.191	828703	8.603 ug/ml
18) N-TETRACONTANE	22.110	1017729	11.429 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015776.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 20:43
Operator : YP\AJ
Sample : Q1877-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

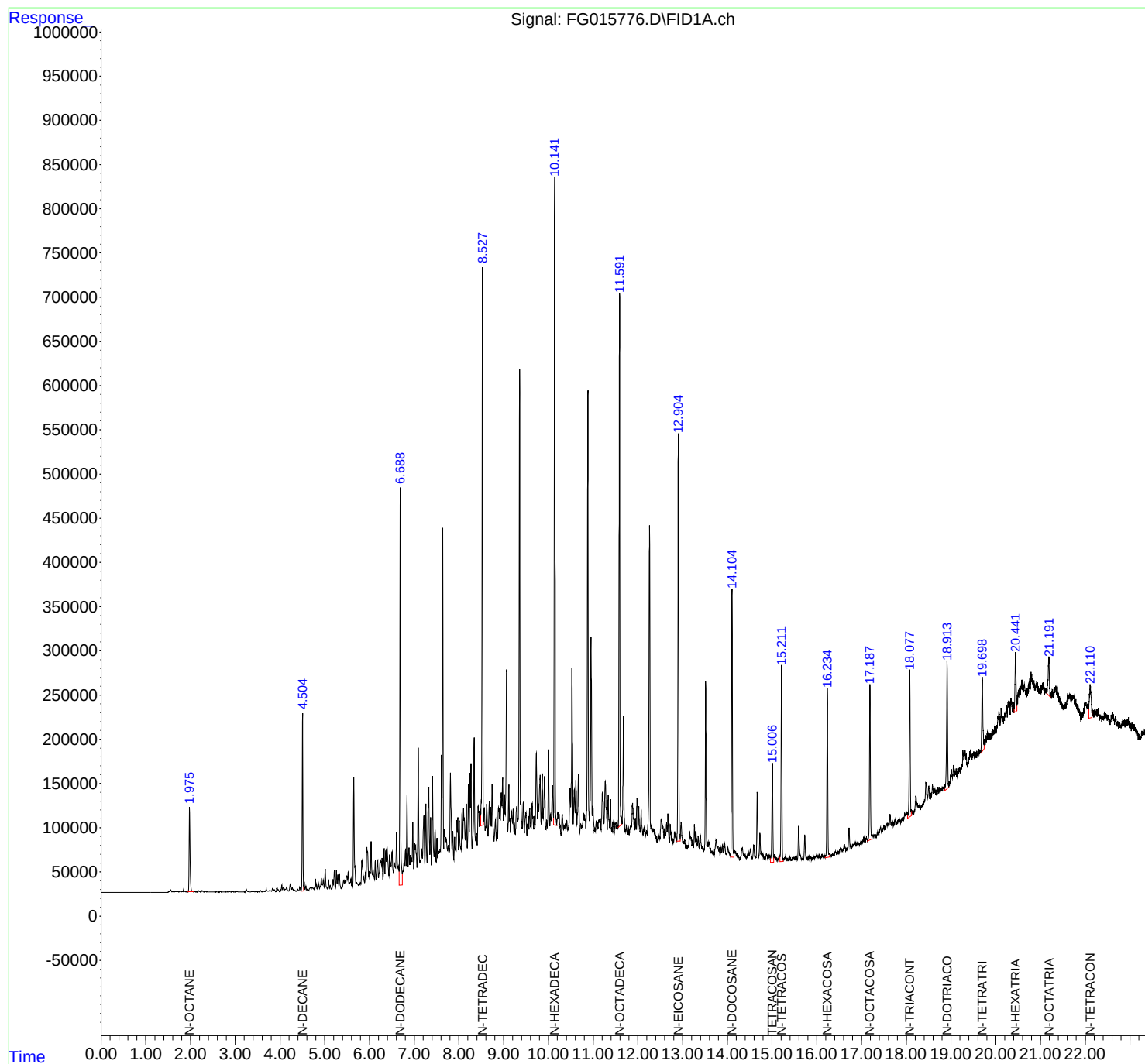
Instrument :
FID_G
ClientSampleId :
AU-6-042425MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
Quant Time: Apr 30 01:22:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rteres

Instrument :

FID_G

ClientSampleId :

AU-6-042425MS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04292
Data File : FG015776.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 20:43
Sample : Q1877-01MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.920	1.900	1.941	BV	230	3565	0.03%	0.001%
2	1.976	1.941	2.098	VV	95528	1383472	12.93%	0.300%
3	2.099	2.098	2.108	VV	243	1037	0.01%	0.000%
4	2.111	2.108	2.133	VV	199	1678	0.02%	0.000%
5	2.137	2.133	2.150	VV	157	1209	0.01%	0.000%
6	2.154	2.150	2.167	VV	181	1310	0.01%	0.000%
7	2.180	2.167	2.240	VV	1301	19794	0.18%	0.004%
8	2.258	2.240	2.296	VV	1796	23269	0.22%	0.005%
9	2.326	2.296	2.377	VV	752	16340	0.15%	0.004%
10	2.382	2.377	2.405	VV	235	2477	0.02%	0.001%
11	2.422	2.405	2.431	VV	161	1581	0.01%	0.000%
12	2.434	2.431	2.456	VV	106	622	0.01%	0.000%
13	2.461	2.456	2.493	VV	100	963	0.01%	0.000%
14	2.504	2.493	2.514	VV	103	589	0.01%	0.000%
15	2.554	2.514	2.597	PV	402	9176	0.09%	0.002%
16	2.600	2.597	2.617	VV	165	1440	0.01%	0.000%
17	2.622	2.617	2.642	VV	59	741	0.01%	0.000%
18	2.674	2.642	2.724	PV	734	15884	0.15%	0.003%
19	2.745	2.724	2.758	VV	261	2782	0.03%	0.001%
20	2.792	2.758	2.811	VV	432	7984	0.07%	0.002%
21	2.821	2.811	2.834	VV	155	1113	0.01%	0.000%
22	2.876	2.834	2.901	VV	647	11928	0.11%	0.003%
23	2.938	2.901	2.981	VV	1020	19970	0.19%	0.004%
24	3.021	2.981	3.041	VV	1016	19560	0.18%	0.004%
25	3.045	3.041	3.071	VV	496	5917	0.06%	0.001%
26	3.079	3.071	3.090	VV	204	1564	0.01%	0.000%
27	3.094	3.090	3.098	VV	174	716	0.01%	0.000%
28	3.112	3.098	3.132	VV	261	3187	0.03%	0.001%
29	3.135	3.132	3.140	VV	128	394	0.00%	0.000%
30	3.164	3.140	3.177	VV	187	3125	0.03%	0.001%
31	3.199	3.177	3.214	VV	361	4952	0.05%	0.001%
32	3.244	3.214	3.283	VV	2710	51615	0.48%	0.011%
33	3.286	3.283	3.323	VV	410	5738	0.05%	0.001%
34	3.327	3.323	3.331	VV	73	234	0.00%	0.000%
35	3.363	3.331	3.368	PV	439	5264	0.05%	0.001%
36	3.383	3.368	3.400	VV	786	10946	0.10%	0.002%

37	3.415	3.400	3.439	VV	594	8086	0.08%	0.002%
38	3.452	3.439	3.472	VV	422	5808		
39	3.488	3.472	3.507	VV	463	6161		
40	3.526	3.507	3.537	VV	506	5300		
41	3.557	3.537	3.600	VV	2000	31558		
42	3.615	3.600	3.625	VV	609	6237		
43	3.637	3.625	3.657	VV	719	9630	0.09%	0.002%
44	3.661	3.657	3.671	VV	293	2210	0.02%	0.000%
45	3.692	3.671	3.732	VV	2826	50827	0.48%	0.011%
46	3.775	3.732	3.808	VV	1866	48981	0.46%	0.011%
47	3.834	3.808	3.850	VV	4048	57731	0.54%	0.013%
48	3.858	3.850	3.867	VV	2261	21434	0.20%	0.005%
49	3.877	3.867	3.910	VV	2377	30311	0.28%	0.007%
50	3.933	3.910	3.956	VV	4899	76246	0.71%	0.017%
51	3.962	3.956	3.995	VV	2299	28110	0.26%	0.006%
52	4.040	3.995	4.058	PV	7508	106873	1.00%	0.023%
53	4.074	4.058	4.093	VV	4852	67251	0.63%	0.015%
54	4.114	4.093	4.128	VV	2593	47127	0.44%	0.010%
55	4.151	4.128	4.172	VV	5640	87966	0.82%	0.019%
56	4.182	4.172	4.197	VV	1022	12981	0.12%	0.003%
57	4.227	4.197	4.256	VV	8133	153406	1.43%	0.033%
58	4.273	4.256	4.301	VV	4624	82659	0.77%	0.018%
59	4.312	4.301	4.330	VV	2253	30604	0.29%	0.007%
60	4.337	4.330	4.359	VV	1279	12729	0.12%	0.003%
61	4.394	4.359	4.423	PV	2591	45102	0.42%	0.010%
62	4.442	4.423	4.468	VV	4482	62092	0.58%	0.013%
63	4.504	4.468	4.530	VV	201378	2160102	20.19%	0.469%
64	4.542	4.530	4.561	VV	9545	112971	1.06%	0.025%
65	4.579	4.561	4.600	VV	5502	71150	0.66%	0.015%
66	4.614	4.600	4.643	VV	1947	29775	0.28%	0.006%
67	4.679	4.643	4.699	VV	3576	78286	0.73%	0.017%
68	4.715	4.699	4.745	VV	3749	74428	0.70%	0.016%
69	4.757	4.745	4.771	VV	2754	28733	0.27%	0.006%
70	4.790	4.771	4.803	VV	13140	136735	1.28%	0.030%
71	4.811	4.803	4.828	VV	6730	67154	0.63%	0.015%
72	4.847	4.828	4.857	VV	5827	75328	0.70%	0.016%
73	4.868	4.857	4.884	VV	6789	75673	0.71%	0.016%
74	4.924	4.884	4.952	VV	13380	260056	2.43%	0.056%
75	4.968	4.952	4.989	VV	11360	161895	1.51%	0.035%
76	5.011	4.989	5.056	VV	23433	344973	3.22%	0.075%
77	5.087	5.056	5.106	VV	9519	126676	1.18%	0.027%
78	5.121	5.106	5.146	VV	4409	55339	0.52%	0.012%
79	5.185	5.146	5.198	VV	11154	131107	1.23%	0.028%
80	5.216	5.198	5.243	VV	21142	330529	3.09%	0.072%
81	5.261	5.243	5.277	VV	21336	243380	2.27%	0.053%
82	5.294	5.277	5.312	VV	16083	220304	2.06%	0.048%
83	5.328	5.312	5.365	VV	17369	227640	2.13%	0.049%
84	5.379	5.365	5.385	VV	1571	11522	0.11%	0.003%
85	5.425	5.385	5.438	VV	9661	168076	1.57%	0.036%
86	5.452	5.438	5.470	VV	8884	134663	1.26%	0.029%
87	5.493	5.470	5.512	VV	14242	280049	2.62%	0.061%
88	5.524	5.512	5.541	VV	18461	217881	2.04%	0.047%
89	5.549	5.541	5.561	VV	6366	71463	0.67%	0.016%

Instrument :

FID_G

ClientSampleId :

AU-6-042425MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

90	5.587	5.561	5.603	VV	10783	172668	1.61%	0.037%
91	5.614	5.603	5.626	VV	5434	53940		
92	5.650	5.626	5.700	VV	125217	1831376	17.22%	0.037%
93	5.718	5.700	5.753	VV	5485	143081	1.97%	0.046%
94	5.777	5.753	5.789	VV	5366	84654	6.33%	0.037%
95	5.801	5.789	5.809	VV	5523	54268	6.11%	0.142%
96	5.830	5.809	5.866	VV	30458	653918	6.11%	0.142%
97	5.874	5.866	5.892	VV	12255	143608	1.34%	0.031%
98	5.913	5.892	5.924	VV	17459	210969	1.97%	0.046%
99	5.941	5.924	5.951	VV	45154	516450	4.83%	0.112%
100	5.956	5.951	5.987	VV	40109	581319	5.43%	0.126%
101	5.997	5.987	6.007	VV	17960	183948	1.72%	0.040%
102	6.037	6.007	6.069	VV	51541	915104	8.55%	0.199%
103	6.082	6.069	6.112	VV	19602	361701	3.38%	0.078%
104	6.129	6.112	6.147	VV	29203	377134	3.52%	0.082%
105	6.182	6.147	6.202	VV	29371	612489	5.72%	0.133%
106	6.244	6.202	6.271	VV	30009	915489	8.56%	0.199%
107	6.282	6.271	6.301	VV	31977	394129	3.68%	0.086%
108	6.328	6.301	6.346	VV	42461	633985	5.93%	0.138%
109	6.367	6.346	6.380	VV	40183	633144	5.92%	0.137%
110	6.394	6.380	6.436	VV	45231	975313	9.12%	0.212%
111	6.452	6.436	6.466	VV	35438	446324	4.17%	0.097%
112	6.476	6.466	6.485	VV	24975	262196	2.45%	0.057%
113	6.506	6.485	6.539	VV	38351	847783	7.92%	0.184%
114	6.558	6.539	6.582	VV	24623	540806	5.05%	0.117%
115	6.608	6.582	6.641	VV	59850	1162134	10.86%	0.252%
116	6.652	6.641	6.663	VV	21400	259255	2.42%	0.056%
117	6.688	6.663	6.734	VV	450099	5192899	48.53%	1.127%
118	6.748	6.734	6.753	VV	15458	166400	1.56%	0.036%
119	6.773	6.753	6.787	VV	25841	425586	3.98%	0.092%
120	6.804	6.787	6.820	VV	39030	620493	5.80%	0.135%
121	6.840	6.820	6.864	VV	100950	1414699	13.22%	0.307%
122	6.885	6.864	6.902	VV	41633	731389	6.84%	0.159%
123	6.914	6.902	6.926	VV	32917	399688	3.74%	0.087%
124	6.942	6.926	6.952	VV	29546	429455	4.01%	0.093%
125	6.969	6.952	6.991	VV	70080	954199	8.92%	0.207%
126	7.013	6.991	7.023	VV	46846	647737	6.05%	0.141%
127	7.032	7.023	7.063	VV	44528	847394	7.92%	0.184%
128	7.091	7.063	7.123	VV	153252	2292808	21.43%	0.498%
129	7.136	7.123	7.149	VV	27073	387273	3.62%	0.084%
130	7.168	7.149	7.184	VV	39853	677221	6.33%	0.147%
131	7.218	7.184	7.238	VV	77154	1670023	15.61%	0.362%
132	7.261	7.238	7.291	VV	90258	1551098	14.50%	0.337%
133	7.326	7.291	7.352	VV	108824	2449884	22.90%	0.532%
134	7.368	7.352	7.387	VV	74452	982082	9.18%	0.213%
135	7.410	7.387	7.446	VV	120552	2077553	19.42%	0.451%
136	7.469	7.446	7.492	VV	60255	1182862	11.05%	0.257%
137	7.510	7.492	7.526	VV	50758	775720	7.25%	0.168%
138	7.539	7.526	7.549	VV	35951	451030	4.22%	0.098%
139	7.563	7.549	7.570	VV	35276	428203	4.00%	0.093%
140	7.579	7.570	7.586	VV	37084	359245	3.36%	0.078%
141	7.612	7.586	7.622	VV	144171	1840901	17.20%	0.400%

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142	7.639	7.622	7.660	VV	400742	4594433	42.94%	0.997%
143	7.672	7.660	7.683	VV	60511	748722		
144	7.689	7.683	7.700	VV	53181	513181		
145	7.705	7.700	7.717	VV	50808	496992		
146	7.723	7.717	7.747	VV	47577	739103		
147	7.761	7.747	7.777	VV	41495	691938		
148	7.781	7.777	7.788	VV	36274	231194	2.16%	0.050%
149	7.811	7.788	7.846	VV	123451	2603382	24.33%	0.565%
150	7.863	7.846	7.887	VV	57230	1044958	9.77%	0.227%
151	7.905	7.887	7.919	VV	50131	750202	7.01%	0.163%
152	7.926	7.919	7.936	VV	37148	377556	3.53%	0.082%
153	7.952	7.936	7.963	VV	69496	888027	8.30%	0.193%
154	7.976	7.963	7.993	VV	72190	1067861	9.98%	0.232%
155	8.008	7.993	8.049	VV	68750	1571034	14.68%	0.341%
156	8.069	8.049	8.085	VV	77765	1258362	11.76%	0.273%
157	8.103	8.085	8.116	VV	82678	1258785	11.76%	0.273%
158	8.123	8.116	8.141	VV	71658	942279	8.81%	0.204%
159	8.167	8.141	8.187	VV	87341	1652245	15.44%	0.359%
160	8.215	8.187	8.231	VV	109558	1884991	17.62%	0.409%
161	8.248	8.231	8.259	VV	121861	1551541	14.50%	0.337%
162	8.271	8.259	8.297	VV	132544	1819889	17.01%	0.395%
163	8.342	8.297	8.375	VV	161561	3485465	32.57%	0.756%
164	8.391	8.375	8.410	VV	52993	1015180	9.49%	0.220%
165	8.429	8.410	8.457	VV	83936	1940709	18.14%	0.421%
166	8.473	8.457	8.484	VV	79264	1173912	10.97%	0.255%
167	8.527	8.484	8.549	VV	692371	9448492	88.31%	2.051%
168	8.569	8.549	8.587	VV	81673	1620652	15.15%	0.352%
169	8.622	8.587	8.652	VV	84987	2567050	23.99%	0.557%
170	8.680	8.652	8.696	VV	88983	1868732	17.47%	0.406%
171	8.709	8.696	8.725	VV	81408	1221153	11.41%	0.265%
172	8.743	8.725	8.787	VV	107692	2589692	24.20%	0.562%
173	8.816	8.787	8.839	VV	66770	1714208	16.02%	0.372%
174	8.852	8.839	8.864	VV	55610	756400	7.07%	0.164%
175	8.884	8.864	8.890	VV	79593	1029223	9.62%	0.223%
176	8.897	8.890	8.910	VV	80560	920810	8.61%	0.200%
177	8.917	8.910	8.926	VV	72651	676956	6.33%	0.147%
178	8.948	8.926	8.962	VV	97357	1817439	16.99%	0.394%
179	8.978	8.962	8.997	VV	113847	1977936	18.49%	0.429%
180	9.019	8.997	9.032	VV	95248	1686205	15.76%	0.366%
181	9.066	9.032	9.090	VV	236102	4273396	39.94%	0.927%
182	9.118	9.090	9.135	VV	105976	2017463	18.86%	0.438%
183	9.142	9.135	9.156	VV	67861	784318	7.33%	0.170%
184	9.173	9.156	9.199	VV	75427	1735316	16.22%	0.377%
185	9.214	9.199	9.231	VV	78080	1291823	12.07%	0.280%
186	9.247	9.231	9.262	VV	60188	1013949	9.48%	0.220%
187	9.293	9.262	9.312	VV	80721	2085491	19.49%	0.453%
188	9.356	9.312	9.378	VV	573744	8162675	76.29%	1.772%
189	9.382	9.378	9.417	VV	86372	1668336	15.59%	0.362%
190	9.440	9.417	9.463	VV	85289	1910375	17.85%	0.415%
191	9.499	9.463	9.520	VV	72265	2135517	19.96%	0.463%
192	9.552	9.520	9.566	VV	68741	1639683	15.32%	0.356%
193	9.583	9.566	9.606	VV	77738	1562512	14.60%	0.339%
194	9.637	9.606	9.671	VV	83202	2584329	24.15%	0.561%

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195	9.686	9.671	9.700	VV	68466	1055465	9.86%	0.229%
196	9.730	9.700	9.763	VV	139496	3474697	32.94%	0.608%
197	9.775	9.763	9.786	VV	80854	1043748	9.86%	0.229%
198	9.817	9.786	9.839	VV	113467	2897560	27.74%	0.608%
199	9.863	9.839	9.882	VV	116080	2163082	20.61%	0.608%
200	9.915	9.882	9.947	VV	112605	3053637	28.22%	0.608%
201	9.962	9.947	9.979	VV	63011	1113054	10.40%	0.242%
202	10.004	9.979	10.033	VV	142927	2803589	26.20%	0.608%
203	10.047	10.033	10.068	VV	70080	1356254	12.68%	0.294%
204	10.092	10.068	10.115	VV	101647	2357926	22.04%	0.512%
205	10.142	10.115	10.188	VV	788072	10699817	100.00%	2.322%
206	10.216	10.188	10.231	VV	71730	1717679	16.05%	0.373%
207	10.240	10.231	10.283	VV	68880	1812840	16.94%	0.393%
208	10.312	10.283	10.338	VV	69080	1900544	17.76%	0.412%
209	10.347	10.338	10.361	VV	55248	729354	6.82%	0.158%
210	10.375	10.361	10.394	VV	56746	1094014	10.22%	0.237%
211	10.410	10.394	10.433	VV	61258	1292142	12.08%	0.280%
212	10.485	10.433	10.500	VV	97841	2837832	26.52%	0.616%
213	10.528	10.500	10.556	VV	233225	4503893	42.09%	0.977%
214	10.580	10.556	10.599	VV	95910	2025631	18.93%	0.440%
215	10.617	10.599	10.637	VV	106779	1875032	17.52%	0.407%
216	10.673	10.637	10.701	VV	112007	2830710	26.46%	0.614%
217	10.719	10.701	10.734	VV	56597	1059253	9.90%	0.230%
218	10.744	10.734	10.753	VV	54122	614506	5.74%	0.133%
219	10.780	10.753	10.799	VV	68604	1673954	15.64%	0.363%
220	10.809	10.799	10.839	VV	66109	1448586	13.54%	0.314%
221	10.883	10.839	10.919	VV	546517	8555144	79.96%	1.857%
222	10.954	10.919	10.980	VV	265580	5085776	47.53%	1.104%
223	10.997	10.980	11.030	VV	74120	1882281	17.59%	0.409%
224	11.042	11.030	11.050	VV	49122	587058	5.49%	0.127%
225	11.071	11.050	11.083	VV	57707	1051656	9.83%	0.228%
226	11.091	11.083	11.109	VV	58004	870965	8.14%	0.189%
227	11.126	11.109	11.131	VV	59906	735295	6.87%	0.160%
228	11.138	11.131	11.144	VV	59928	471252	4.40%	0.102%
229	11.160	11.144	11.178	VV	60206	1147541	10.72%	0.249%
230	11.205	11.178	11.240	VV	90208	2739670	25.60%	0.595%
231	11.273	11.240	11.314	VV	102431	3359441	31.40%	0.729%
232	11.336	11.314	11.371	VV	87677	2182014	20.39%	0.474%
233	11.388	11.371	11.425	VV	81741	1919761	17.94%	0.417%
234	11.440	11.425	11.468	VV	56295	1292535	12.08%	0.281%
235	11.495	11.468	11.513	VV	54896	1367217	12.78%	0.297%
236	11.536	11.513	11.556	VV	58512	1404849	13.13%	0.305%
237	11.591	11.556	11.647	VV	652637	10100188	94.40%	2.192%
238	11.678	11.647	11.715	VV	175300	3805841	35.57%	0.826%
239	11.741	11.715	11.765	VV	51895	1392288	13.01%	0.302%
240	11.782	11.765	11.803	VV	50934	1082202	10.11%	0.235%
241	11.832	11.803	11.836	VV	50179	907290	8.48%	0.197%
242	11.881	11.836	11.925	VV	76369	3156474	29.50%	0.685%
243	11.944	11.925	11.959	VV	59133	1076204	10.06%	0.234%
244	11.981	11.959	12.003	VV	81312	1690461	15.80%	0.367%
245	12.020	12.003	12.048	VV	72227	1519392	14.20%	0.330%
246	12.073	12.048	12.117	VV	69124	2089604	19.53%	0.453%

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247	12.139	12.117	12.173	VV	48150	1446864	13.52%	0.314%
248	12.194	12.173	12.210	VV	44219	933365	8.60%	0.188%
249	12.261	12.210	12.290	VV	388752	6460155	60.80%	0.227%
250	12.299	12.290	12.315	VV	49063	699944	6.00%	0.105%
251	12.332	12.315	12.353	VV	46424	1022050	9.50%	0.260%
252	12.362	12.353	12.378	VV	44667	634756	5.90%	0.188%
253	12.383	12.378	12.433	VV	40843	1196829	11.19%	0.260%
254	12.458	12.433	12.474	VV	39203	866998	8.10%	0.188%
255	12.488	12.474	12.497	VV	36721	484520	4.53%	0.105%
256	12.530	12.497	12.557	VV	57089	1809646	16.91%	0.393%
257	12.562	12.557	12.583	VV	48038	675016	6.31%	0.146%
258	12.599	12.583	12.616	VV	42686	771411	7.21%	0.167%
259	12.641	12.616	12.655	VV	52314	1045622	9.77%	0.227%
260	12.671	12.655	12.706	VV	62267	1368381	12.79%	0.297%
261	12.723	12.706	12.793	VV	49736	1921294	17.96%	0.417%
262	12.822	12.793	12.869	VV	41112	1607223	15.02%	0.349%
263	12.904	12.869	12.945	VV	491901	7040829	65.80%	1.528%
264	12.966	12.945	13.006	VV	50880	1400451	13.09%	0.304%
265	13.020	13.006	13.030	VV	29021	411655	3.85%	0.089%
266	13.048	13.030	13.069	VV	31056	654269	6.11%	0.142%
267	13.077	13.069	13.083	VV	25045	205554	1.92%	0.045%
268	13.087	13.083	13.103	VV	24917	275018	2.57%	0.060%
269	13.118	13.103	13.131	VV	24699	398388	3.72%	0.086%
270	13.153	13.131	13.170	VV	40317	790452	7.39%	0.172%
271	13.175	13.170	13.209	VV	34377	733165	6.85%	0.159%
272	13.222	13.209	13.242	VV	29697	513468	4.80%	0.111%
273	13.263	13.242	13.283	VV	48246	860233	8.04%	0.187%
274	13.295	13.283	13.310	VV	40329	586396	5.48%	0.127%
275	13.314	13.310	13.331	VV	30781	355045	3.32%	0.077%
276	13.346	13.331	13.375	VV	34328	721792	6.75%	0.157%
277	13.396	13.375	13.428	VV	35929	893814	8.35%	0.194%
278	13.445	13.428	13.467	VV	23396	490827	4.59%	0.107%
279	13.515	13.467	13.546	VV	207342	3169460	29.62%	0.688%
280	13.555	13.546	13.568	VV	25435	322802	3.02%	0.070%
281	13.586	13.568	13.642	VV	26468	955172	8.93%	0.207%
282	13.647	13.642	13.650	VV	15663	69159	0.65%	0.015%
283	13.654	13.650	13.662	VV	16796	118333	1.11%	0.026%
284	13.682	13.662	13.704	VV	18564	384713	3.60%	0.083%
285	13.747	13.704	13.766	VV	29728	810400	7.57%	0.176%
286	13.770	13.766	13.779	VV	21588	170674	1.60%	0.037%
287	13.791	13.779	13.810	VV	21720	366835	3.43%	0.080%
288	13.823	13.810	13.843	VV	20130	332521	3.11%	0.072%
289	13.860	13.843	13.876	VV	20311	335805	3.14%	0.073%
290	13.894	13.876	13.922	VV	23042	484844	4.53%	0.105%
291	13.941	13.922	13.973	VV	24310	545452	5.10%	0.118%
292	14.011	13.973	14.042	VV	19769	625885	5.85%	0.136%
293	14.045	14.042	14.073	VV	13965	224650	2.10%	0.049%
294	14.104	14.073	14.148	VV	310864	4288376	40.08%	0.931%
295	14.159	14.148	14.171	VV	15201	189346	1.77%	0.041%
296	14.179	14.171	14.201	VV	14155	228164	2.13%	0.050%
297	14.219	14.201	14.238	VV	12059	222083	2.08%	0.048%
298	14.245	14.238	14.271	VV	9085	148909	1.39%	0.032%
299	14.330	14.271	14.359	VV	18069	598234	5.59%	0.130%

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300	14.370	14.359	14.383	VV	11219	145245	1.36%	0.032%
301	14.397	14.383	14.420	VV	10876	196453		
302	14.437	14.420	14.448	VV	8710	126622		
303	14.465	14.448	14.483	VV	14518	242478		
304	14.515	14.483	14.552	VV	15901	447409		
305	14.589	14.552	14.639	VV	20944	572370		
306	14.667	14.639	14.701	VV	79934	1179176	11.02%	0.256%
307	14.727	14.701	14.757	VV	33317	581541	5.44%	0.126%
308	14.760	14.757	14.776	VV	11128	114648	1.07%	0.025%
309	14.789	14.776	14.823	VV	9795	218803	2.04%	0.047%
310	14.845	14.823	14.852	VV	5721	85771	0.80%	0.019%
311	14.872	14.852	14.905	VV	9253	230166	2.15%	0.050%
312	14.923	14.905	14.938	VV	7448	130298	1.22%	0.028%
313	14.952	14.938	14.968	VV	7333	112966	1.06%	0.025%
314	15.005	14.968	15.037	VV	110847	1680625	15.71%	0.365%
315	15.057	15.037	15.087	VV	8584	173970	1.63%	0.038%
316	15.094	15.087	15.118	VV	4429	57931	0.54%	0.013%
317	15.132	15.118	15.142	VV	3607	40610	0.38%	0.009%
318	15.173	15.142	15.177	VV	6249	96044	0.90%	0.021%
319	15.211	15.177	15.245	VV	222395	2970275	27.76%	0.645%
320	15.251	15.245	15.262	VV	2945	29594	0.28%	0.006%
321	15.302	15.262	15.328	VV	5514	142319	1.33%	0.031%
322	15.343	15.328	15.368	VV	2889	48459	0.45%	0.011%
323	15.373	15.368	15.381	VV	1215	6312	0.06%	0.001%
324	15.403	15.381	15.429	PV	3877	63355	0.59%	0.014%
325	15.485	15.429	15.502	VV	3858	112858	1.05%	0.024%
326	15.517	15.502	15.532	VV	3708	56878	0.53%	0.012%
327	15.545	15.532	15.565	VV	4497	54477	0.51%	0.012%
328	15.592	15.565	15.664	VV	38399	710566	6.64%	0.154%
329	15.669	15.664	15.684	VV	2344	18819	0.18%	0.004%
330	15.729	15.684	15.763	VV	28076	441969	4.13%	0.096%
331	15.769	15.763	15.780	VV	2877	25757	0.24%	0.006%
332	15.783	15.780	15.811	VV	2588	36865	0.34%	0.008%
333	15.830	15.811	15.849	VV	3561	62234	0.58%	0.014%
334	15.863	15.849	15.889	VV	3750	53381	0.50%	0.012%
335	15.914	15.889	15.929	PV	2328	38030	0.36%	0.008%
336	15.955	15.929	15.960	VV	2250	35897	0.34%	0.008%
337	15.990	15.960	16.013	VV	4054	85427	0.80%	0.019%
338	16.018	16.013	16.023	VV	2086	10126	0.09%	0.002%
339	16.029	16.023	16.032	VV	2796	11938	0.11%	0.003%
340	16.058	16.032	16.079	VV	3272	58323	0.55%	0.013%
341	16.086	16.079	16.090	VV	1231	6322	0.06%	0.001%
342	16.120	16.090	16.150	VV	3615	80303	0.75%	0.017%
343	16.165	16.150	16.180	VV	2517	35109	0.33%	0.008%
344	16.185	16.180	16.189	VV	1867	8472	0.08%	0.002%
345	16.195	16.189	16.201	VV	2161	12793	0.12%	0.003%
346	16.234	16.201	16.288	VV	190362	2550227	23.83%	0.553%
347	16.297	16.288	16.317	VV	3548	36859	0.34%	0.008%
348	16.336	16.317	16.341	VV	2063	20663	0.19%	0.004%
349	16.348	16.341	16.352	VV	2265	12382	0.12%	0.003%
350	16.367	16.352	16.385	VV	1895	27674	0.26%	0.006%
351	16.416	16.385	16.448	PV	4906	111960	1.05%	0.024%

Instrument :

FID_G

ClientSampleId :

AU-6-042425MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

					rteres				
352	16.452	16.448	16.460	VV	1348	8421	0.08%	0.002%	
353	16.478	16.460	16.492	VV	2929	38184			
354	16.534	16.492	16.563	VV	6357	167874			
355	16.567	16.563	16.575	VV	2603	16414			
356	16.615	16.575	16.651	VV	8608	189600			
357	16.669	16.651	16.675	VV	2319	22371			
358	16.720	16.675	16.746	VV	24880	393291	3.68%	0.085%	
359	16.760	16.746	16.784	VV	3648	55779	0.52%	0.012%	
360	16.801	16.784	16.815	VV	3357	43924	0.41%	0.010%	
361	16.820	16.815	16.826	VV	3674	18044	0.17%	0.004%	
362	16.854	16.826	16.861	VV	4472	77132	0.72%	0.017%	
363	16.866	16.861	16.874	VV	3942	22416	0.21%	0.005%	
364	16.880	16.874	16.886	VV	2619	18621	0.17%	0.004%	
365	16.893	16.886	16.899	VV	2867	18637	0.17%	0.004%	
366	16.928	16.899	16.944	VV	3782	77137	0.72%	0.017%	
367	16.947	16.944	16.957	VV	1738	8626	0.08%	0.002%	
368	16.997	16.957	17.006	PV	2755	43285	0.40%	0.009%	
369	17.046	17.006	17.089	VV	6684	146812	1.37%	0.032%	
370	17.111	17.089	17.131	VV	4705	71495	0.67%	0.016%	
371	17.187	17.131	17.230	VV	174804	2487640	23.25%	0.540%	
372	17.242	17.230	17.274	VV	4111	84092	0.79%	0.018%	
373	17.282	17.274	17.290	VV	3421	26920	0.25%	0.006%	
374	17.297	17.290	17.302	VV	2220	13206	0.12%	0.003%	
375	17.310	17.302	17.324	VV	2871	20157	0.19%	0.004%	
376	17.360	17.324	17.382	PV	4210	82866	0.77%	0.018%	
377	17.392	17.382	17.396	VV	3964	28550	0.27%	0.006%	
378	17.423	17.396	17.457	VV	8684	183312	1.71%	0.040%	
379	17.502	17.457	17.530	VV	9006	224775	2.10%	0.049%	
380	17.534	17.530	17.540	VV	3355	20243	0.19%	0.004%	
381	17.568	17.540	17.588	VV	8613	199339	1.86%	0.043%	
382	17.596	17.588	17.614	VV	7854	106680	1.00%	0.023%	
383	17.639	17.614	17.659	VV	17306	286811	2.68%	0.062%	
384	17.667	17.659	17.690	VV	6582	96093	0.90%	0.021%	
385	17.704	17.690	17.723	VV	7205	95297	0.89%	0.021%	
386	17.753	17.723	17.770	VV	8018	167050	1.56%	0.036%	
387	17.787	17.770	17.793	VV	4621	52968	0.50%	0.011%	
388	17.820	17.793	17.835	VV	6145	120392	1.13%	0.026%	
389	17.844	17.835	17.874	VV	5159	99429	0.93%	0.022%	
390	17.905	17.874	17.917	VV	7001	115049	1.08%	0.025%	
391	17.935	17.917	17.943	VV	6583	72438	0.68%	0.016%	
392	17.966	17.943	17.987	VV	10379	195577	1.83%	0.042%	
393	18.021	17.987	18.031	VV	10218	223426	2.09%	0.048%	
394	18.077	18.031	18.120	VV	168858	2693208	25.17%	0.584%	
395	18.123	18.120	18.135	VV	9375	66940	0.63%	0.015%	
396	18.149	18.135	18.167	VV	8361	128740	1.20%	0.028%	
397	18.213	18.167	18.238	VV	22976	574765	5.37%	0.125%	
398	18.247	18.238	18.274	VV	13914	252822	2.36%	0.055%	
399	18.295	18.274	18.319	VV	10812	253616	2.37%	0.055%	
400	18.334	18.319	18.339	VV	9736	92884	0.87%	0.020%	
401	18.343	18.339	18.350	VV	10156	60290	0.56%	0.013%	
402	18.361	18.350	18.376	VV	10205	135577	1.27%	0.029%	
403	18.408	18.376	18.414	VV	14497	264128	2.47%	0.057%	
404	18.438	18.414	18.443	VV	32351	399500	3.73%	0.087%	

Instrument :

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Manual IntegrationsAPPROVED

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405	18.446	18.443	18.477	VV	32048	453012	4.23%	0.098%
406	18.498	18.477	18.524	VV	27234	572352		
407	18.530	18.524	18.545	VV	14631	167325		
408	18.556	18.545	18.563	VV	18151	169365		
409	18.584	18.563	18.605	VV	27238	522852		
410	18.622	18.605	18.637	VV	21115	353887		
411	18.645	18.637	18.655	VV	19380	194854	1.82%	0.042%
412	18.667	18.655	18.677	VV	18193	203546	1.90%	0.044%
413	18.683	18.677	18.689	VV	14370	92693	0.87%	0.020%
414	18.711	18.689	18.720	VV	20441	308620	2.88%	0.067%
415	18.752	18.720	18.768	VV	19585	487052	4.55%	0.106%
416	18.782	18.768	18.788	VV	16816	186103	1.74%	0.040%
417	18.795	18.788	18.805	VV	17175	159472	1.49%	0.035%
418	18.814	18.805	18.822	VV	17557	173809	1.62%	0.038%
419	18.828	18.822	18.840	VV	17369	174705	1.63%	0.038%
420	18.848	18.840	18.854	VV	16267	127525	1.19%	0.028%
421	18.913	18.854	18.949	VV	158527	3027217	28.29%	0.657%
422	18.957	18.949	18.964	VV	20872	155348	1.45%	0.034%
423	18.989	18.964	18.995	VV	27542	401536	3.75%	0.087%
424	19.011	18.995	19.034	VV	33043	638004	5.96%	0.138%
425	19.054	19.034	19.077	VV	36804	777920	7.27%	0.169%
426	19.086	19.077	19.103	VV	29289	425924	3.98%	0.092%
427	19.113	19.103	19.124	VV	31053	328782	3.07%	0.071%
428	19.132	19.124	19.140	VV	24811	236471	2.21%	0.051%
429	19.153	19.140	19.167	VV	30342	432053	4.04%	0.094%
430	19.177	19.167	19.190	VV	29323	382951	3.58%	0.083%
431	19.196	19.190	19.203	VV	30758	205984	1.93%	0.045%
432	19.215	19.203	19.222	VV	28828	309187	2.89%	0.067%
433	19.239	19.222	19.245	VV	30791	405896	3.79%	0.088%
434	19.264	19.245	19.274	VV	47685	667697	6.24%	0.145%
435	19.276	19.274	19.288	VV	44894	347779	3.25%	0.075%
436	19.302	19.288	19.309	VV	43806	523772	4.90%	0.114%
437	19.315	19.309	19.332	VV	46614	590078	5.51%	0.128%
438	19.340	19.332	19.367	VV	41525	709102	6.63%	0.154%
439	19.416	19.367	19.427	VV	42374	1208609	11.30%	0.262%
440	19.438	19.427	19.453	VV	43812	625278	5.84%	0.136%
441	19.460	19.453	19.469	VV	39120	369043	3.45%	0.080%
442	19.479	19.469	19.487	VV	37614	383380	3.58%	0.083%
443	19.494	19.487	19.500	VV	39076	304530	2.85%	0.066%
444	19.504	19.500	19.508	VV	40200	185261	1.73%	0.040%
445	19.515	19.508	19.524	VV	40074	339215	3.17%	0.074%
446	19.543	19.524	19.549	VV	38941	536319	5.01%	0.116%
447	19.555	19.549	19.560	VV	36878	244177	2.28%	0.053%
448	19.568	19.560	19.575	VV	39671	322312	3.01%	0.070%
449	19.583	19.575	19.589	VV	36543	273823	2.56%	0.059%
450	19.605	19.589	19.614	VV	39165	559067	5.23%	0.121%
451	19.624	19.614	19.641	VV	39781	616408	5.76%	0.134%
452	19.655	19.641	19.665	VV	38730	510947	4.78%	0.111%
453	19.699	19.665	19.742	VV	119620	3147646	29.42%	0.683%
454	19.749	19.742	19.756	VV	46861	368253	3.44%	0.080%
455	19.775	19.756	19.790	VV	52251	943728	8.82%	0.205%
456	19.817	19.790	19.825	VV	54555	1056327	9.87%	0.229%

Instrument :

FID_G

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AU-6-042425MS

4.23% 0.098%

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					rters			
457	19.830	19.825	19.849	VV	53210	683401	6.39%	0.148%
458	19.855	19.849	19.870	VV	51023	614942		
459	19.876	19.870	19.888	VV	51568	506519		
460	19.894	19.888	19.899	VV	47819	305428		
461	19.904	19.899	19.911	VV	50538	355370		
462	19.932	19.911	19.937	VV	53927	779970		
463	19.942	19.937	19.947	VV	52185	294334	2.75%	0.064%
464	19.954	19.947	19.964	VV	51684	510074	4.77%	0.111%
465	19.971	19.964	19.975	VV	56879	369713	3.46%	0.080%
466	19.985	19.975	19.992	VV	57711	561145	5.24%	0.122%
467	20.002	19.992	20.012	VV	54718	616410	5.76%	0.134%
468	20.048	20.012	20.060	VV	66931	1659017	15.51%	0.360%
469	20.071	20.060	20.086	VV	70327	1056094	9.87%	0.229%
470	20.091	20.086	20.096	VV	65445	388384	3.63%	0.084%
471	20.121	20.096	20.127	VV	74095	1188723	11.11%	0.258%
472	20.131	20.127	20.141	VV	68014	514760	4.81%	0.112%
473	20.146	20.141	20.174	VV	63263	1201870	11.23%	0.261%
474	20.180	20.174	20.182	VV	60649	295991	2.77%	0.064%
475	20.187	20.182	20.193	VV	62829	410019	3.83%	0.089%
476	20.199	20.193	20.203	VV	65999	377750	3.53%	0.082%
477	20.234	20.203	20.238	VV	72320	1377203	12.87%	0.299%
478	20.245	20.238	20.260	VV	73551	899846	8.41%	0.195%
479	20.276	20.260	20.285	VV	76915	1080712	10.10%	0.235%
480	20.290	20.285	20.302	VV	77285	746756	6.98%	0.162%
481	20.315	20.302	20.322	VV	76810	811881	7.59%	0.176%
482	20.337	20.322	20.354	VV	78600	1429143	13.36%	0.310%
483	20.359	20.354	20.370	VV	75103	697179	6.52%	0.151%
484	20.399	20.370	20.405	VV	71535	1375154	12.85%	0.298%
485	20.411	20.405	20.415	VV	69533	374194	3.50%	0.081%
486	20.441	20.415	20.472	VV	128206	3221359	30.11%	0.699%
487	20.486	20.472	20.491	VV	77830	845779	7.90%	0.184%
488	20.511	20.491	20.520	VV	84395	1412541	13.20%	0.307%
489	20.525	20.520	20.531	VV	85234	504846	4.72%	0.110%
490	20.544	20.531	20.550	VV	84882	958384	8.96%	0.208%
491	20.582	20.550	20.597	VV	93831	2456795	22.96%	0.533%
492	20.600	20.597	20.606	VV	84753	433992	4.06%	0.094%
493	20.611	20.606	20.625	VV	87112	985363	9.21%	0.214%
494	20.641	20.625	20.691	VV	87829	3128252	29.24%	0.679%
495	20.704	20.691	20.722	VV	81305	1454323	13.59%	0.316%
496	20.743	20.722	20.750	VV	86895	1365526	12.76%	0.296%
497	20.759	20.750	20.773	VV	89716	1166042	10.90%	0.253%
498	20.787	20.773	20.792	VV	97223	1001734	9.36%	0.217%
499	20.804	20.792	20.815	VV	93501	1255812	11.74%	0.273%
500	20.820	20.815	20.835	VV	89319	1029548	9.62%	0.223%
501	20.856	20.835	20.875	VV	86383	1900180	17.76%	0.412%
502	20.880	20.875	20.889	VV	79384	652397	6.10%	0.142%
503	20.901	20.889	20.912	VV	80990	1105186	10.33%	0.240%
504	20.916	20.912	20.948	VV	82634	1663400	15.55%	0.361%
505	20.959	20.948	20.981	VV	75794	1440297	13.46%	0.313%
506	20.985	20.981	21.013	VV	74573	1366588	12.77%	0.297%
507	21.018	21.013	21.022	VV	76694	426128	3.98%	0.092%
508	21.044	21.022	21.052	VV	76644	1335859	12.48%	0.290%
509	21.059	21.052	21.094	VV	78578	1772579	16.57%	0.385%

Instrument :

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rteres							
510	21.117	21.094	21.127	VV	69929	1368049	12.79% 0.297%
511	21.132	21.127	21.137	VV	70794	413957	
512	21.191	21.137	21.220	VV	103887	3891590	30
513	21.225	21.220	21.244	VV	62365	853434	7
514	21.267	21.244	21.274	VV	65242	1114626	10
515	21.279	21.274	21.289	VV	61592	513291	4
516	21.299	21.289	21.303	VV	64957	538713	5.03% 0.117%
517	21.345	21.303	21.355	VV	67236	1986275	18.56% 0.431%
518	21.364	21.355	21.368	VV	63380	469190	4.39% 0.102%
519	21.375	21.368	21.389	VV	66097	767811	7.18% 0.167%
520	21.393	21.389	21.410	VV	60321	712937	6.66% 0.155%
521	21.415	21.410	21.420	VV	52117	304107	2.84% 0.066%
522	21.428	21.420	21.440	VV	53529	568904	5.32% 0.123%
523	21.448	21.440	21.466	VV	50666	724594	6.77% 0.157%
524	21.472	21.466	21.497	VV	46696	782410	7.31% 0.170%
525	21.502	21.497	21.521	VV	42347	579177	5.41% 0.126%
526	21.532	21.521	21.560	VV	43823	942353	8.81% 0.205%
527	21.564	21.560	21.569	VV	43083	213707	2.00% 0.046%
528	21.609	21.569	21.631	VV	51229	1688862	15.78% 0.367%
529	21.641	21.631	21.655	VV	49622	688631	6.44% 0.149%
530	21.659	21.655	21.670	VV	50511	434356	4.06% 0.094%
531	21.676	21.670	21.688	VV	49114	503968	4.71% 0.109%
532	21.699	21.688	21.706	VV	47137	461974	4.32% 0.100%
533	21.735	21.706	21.782	VV	47329	1928093	18.02% 0.418%
534	21.791	21.782	21.824	VV	40761	826755	7.73% 0.179%
535	21.832	21.824	21.852	VV	34843	524904	4.91% 0.114%
536	21.862	21.852	21.924	VV	28933	922914	8.63% 0.200%
537	21.982	21.924	21.990	VV	32117	888832	8.31% 0.193%
538	22.020	21.990	22.079	VV	31107	1438690	13.45% 0.312%
539	22.110	22.079	22.150	VV	49901	1521404	14.22% 0.330%
540	22.158	22.150	22.177	VV	21373	276888	2.59% 0.060%
541	22.183	22.177	22.194	VV	17245	150247	1.40% 0.033%
542	22.202	22.194	22.219	VV	17378	220340	2.06% 0.048%
543	22.229	22.219	22.245	VV	14720	232950	2.18% 0.051%
544	22.253	22.245	22.267	VV	17779	189284	1.77% 0.041%
545	22.275	22.267	22.289	VV	16133	171820	1.61% 0.037%
546	22.295	22.289	22.327	VV	18422	240076	2.24% 0.052%
547	22.339	22.327	22.368	VV	8337	141422	1.32% 0.031%
548	22.381	22.368	22.400	PBA	5313	138301	1.29% 0.030%

Sum of corrected areas: 460775526

FG042425.M Wed Apr 30 02:14:30 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/24/25
Client Sample ID:	AU-6-042425MSD	SDG No.:	Q1901
Lab Sample ID:	Q1877-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	93.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	TPH GC
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG015777.D	1	04/29/25 10:49	04/29/25 21:13	PB167783

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	136000	E	410	3020	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.0		37 - 130	70%	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_G\Data\FG042925\
 Data File : FG015777.D
 Signal(s) : FID1A.ch
 Acq On : 29 Apr 2025 21:13
 Operator : YP\AJ
 Sample : Q1877-01MSD
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 AU-6-042425MSD

Manual Integrations
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Reviewed By :Yogesh Patel 04/30/2025
 Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
 Quant Time: Apr 30 01:22:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
 Quant Title :
 QLast Update : Thu Apr 24 12:54:09 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal Phase : Rxi-1ms
 Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.007	1648314	14.000 ug/ml
Target Compounds			
1) N-OCTANE	1.979	1334217	11.839 ug/ml
2) N-DECANE	4.505	2136060	19.186 ug/ml
3) N-DODECANE	6.689	4621905	40.330 ug/mlm
4) N-TETRADECANE	8.527	6931972	57.207 ug/mlm
5) N-HEXADECANE	10.144	8110272	64.602 ug/mlm
6) N-OCTADECANE	11.591	7149030	54.551 ug/mlm
7) N-EICOSANE	12.904	5862039	43.238 ug/mlm
8) N-DOCOSANE	14.105	4290830	32.352 ug/ml
10) N-TETRACOSANE	15.212	2921542	21.985 ug/ml
11) N-HEXACOSANE	16.236	2545978	19.197 ug/ml
12) N-OCTACOSANE	17.190	2451607	18.596 ug/ml
13) N-TRIACONTANE	18.080	2483817	18.631 ug/ml
14) N-DOTRIACONTANE	18.917	2166001	16.431 ug/ml
15) N-TETRATRIACONTANE	19.703	1450069	11.990 ug/ml
16) N-HEXATRIACONTANE	20.449	1150845	10.734 ug/ml
17) N-OCTATRIACONTANE	21.188	877741	9.112 ug/ml
18) N-TETRACONTANE	22.119	1012069	11.366 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042925\
Data File : FG015777.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 21:13
Operator : YP\AJ
Sample : Q1877-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :

FID_G

Client Sample Id :

AU-6-042425MSD

Manual Integrations

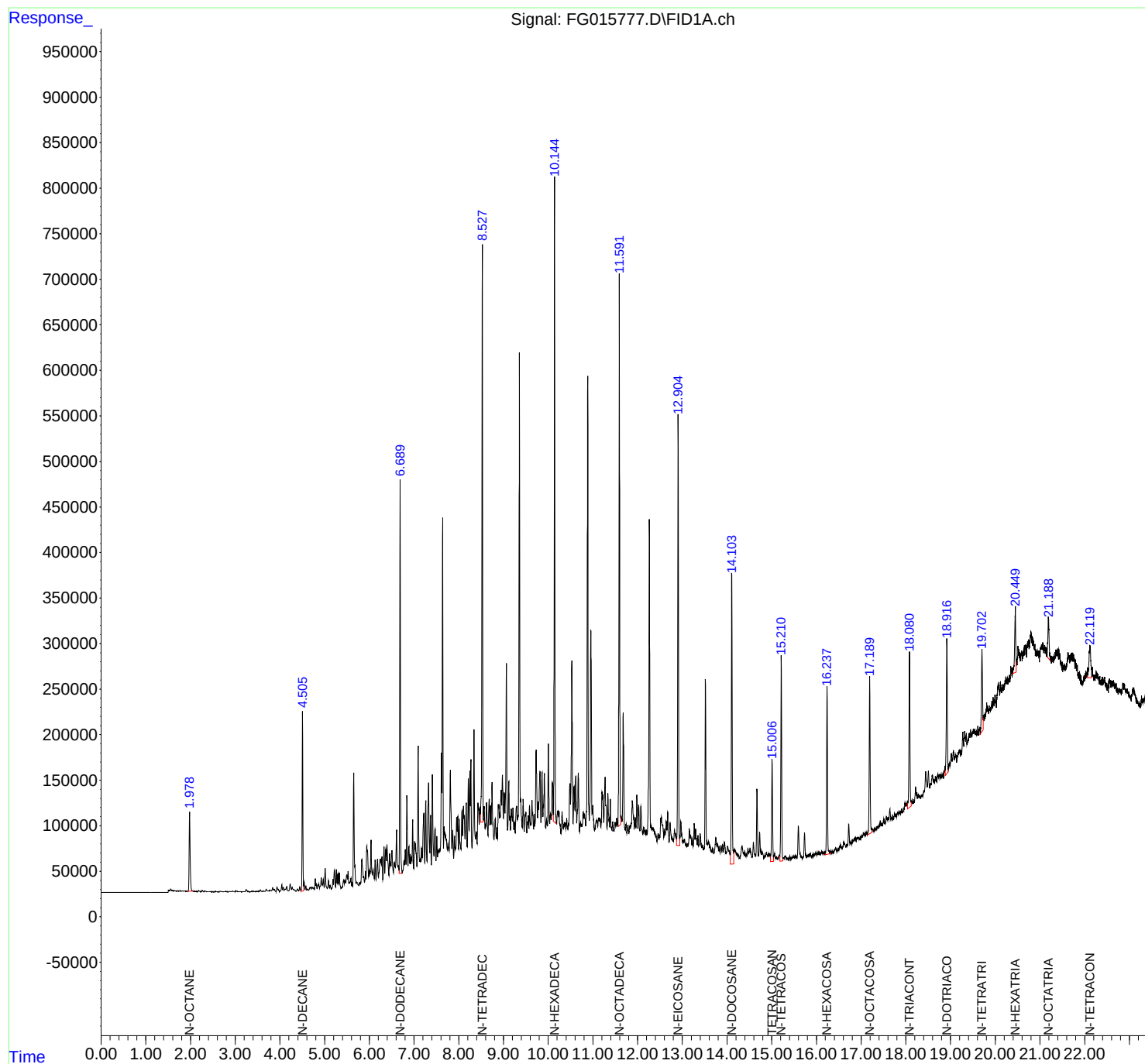
APPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

Integration File: autoint1.e
Quant Time: Apr 30 01:22:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Quant Title :
QLast Update : Thu Apr 24 12:54:09 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um



rters

Instrument :

FID_G

ClientSampleId :

AU-6-042425MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04292
Data File : FG015777.D
Signal(s) : FID1A.ch
Acq On : 29 Apr 2025 21:13
Sample : Q1877-01MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG042425.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.925	1.900	1.944	BV	227	2603	0.02%	0.001%
2	1.979	1.944	2.112	PV	87289	1355848	12.77%	0.291%
3	2.116	2.112	2.133	VV	114	450	0.00%	0.000%
4	2.142	2.133	2.148	PV	90	552	0.01%	0.000%
5	2.152	2.148	2.157	VV	132	510	0.00%	0.000%
6	2.161	2.157	2.167	VV	148	464	0.00%	0.000%
7	2.181	2.167	2.230	VV	1272	18263	0.17%	0.004%
8	2.260	2.230	2.298	VV	1656	22382	0.21%	0.005%
9	2.326	2.298	2.381	VV	948	18592	0.18%	0.004%
10	2.391	2.381	2.438	VV	219	3808	0.04%	0.001%
11	2.445	2.438	2.457	VV	392	1089	0.01%	0.000%
12	2.465	2.457	2.482	VV	133	801	0.01%	0.000%
13	2.497	2.482	2.518	PV	127	1378	0.01%	0.000%
14	2.522	2.518	2.533	VV	124	782	0.01%	0.000%
15	2.557	2.533	2.619	VV	434	10555	0.10%	0.002%
16	2.623	2.619	2.645	VV	84	751	0.01%	0.000%
17	2.669	2.645	2.726	PV	737	15456	0.15%	0.003%
18	2.743	2.726	2.750	VV	213	2113	0.02%	0.000%
19	2.756	2.750	2.760	VV	174	799	0.01%	0.000%
20	2.784	2.760	2.821	VV	388	7872	0.07%	0.002%
21	2.824	2.821	2.838	VV	104	739	0.01%	0.000%
22	2.877	2.838	2.908	VV	579	12375	0.12%	0.003%
23	2.915	2.908	2.921	VV	273	1868	0.02%	0.000%
24	2.940	2.921	2.973	VV	982	15971	0.15%	0.003%
25	2.977	2.973	2.985	VV	247	1623	0.02%	0.000%
26	3.021	2.985	3.044	VV	935	19234	0.18%	0.004%
27	3.050	3.044	3.081	VV	452	5457	0.05%	0.001%
28	3.086	3.081	3.092	VV	128	646	0.01%	0.000%
29	3.111	3.092	3.141	VV	171	3301	0.03%	0.001%
30	3.165	3.141	3.181	VV	186	2777	0.03%	0.001%
31	3.203	3.181	3.214	VV	278	3638	0.03%	0.001%
32	3.245	3.214	3.285	VV	2631	49655	0.47%	0.011%
33	3.293	3.285	3.326	VV	396	4898	0.05%	0.001%
34	3.334	3.326	3.340	PV	93	407	0.00%	0.000%
35	3.363	3.340	3.373	VV	446	5202	0.05%	0.001%
36	3.386	3.373	3.407	VV	824	10257	0.10%	0.002%

37	3.417	3.407	3.438	VV	577	6435	0.06%	0.001%
38	3.457	3.438	3.473	VV	417	5633	0.06%	0.001%
39	3.487	3.473	3.508	VV	484	6451	0.06%	0.001%
40	3.528	3.508	3.540	VV	447	5555	0.06%	0.001%
41	3.559	3.540	3.601	VV	1914	31392	0.10%	0.002%
42	3.619	3.601	3.624	VV	590	5420	0.03%	0.001%
43	3.639	3.624	3.656	VV	736	10530	0.03%	0.001%
44	3.661	3.656	3.673	VV	376	3136	0.46%	0.011%
45	3.694	3.673	3.729	VV	2758	49042	0.09%	0.002%
46	3.736	3.729	3.749	VV	862	9585	0.39%	0.009%
47	3.777	3.749	3.808	VV	1824	41659	0.58%	0.013%
48	3.835	3.808	3.853	VV	4125	61134	0.21%	0.005%
49	3.859	3.853	3.870	VV	2224	21849	0.27%	0.006%
50	3.879	3.870	3.910	VV	2200	28157	0.70%	0.016%
51	3.935	3.910	3.958	VV	4969	74495	0.26%	0.006%
52	3.964	3.958	3.996	VV	2234	28104	0.98%	0.022%
53	4.042	3.996	4.059	VV	7413	104385	0.64%	0.015%
54	4.076	4.059	4.095	VV	4981	68241	0.46%	0.011%
55	4.113	4.095	4.132	VV	2543	49130	0.82%	0.019%
56	4.152	4.132	4.175	VV	5579	87154	0.11%	0.002%
57	4.183	4.175	4.198	VV	1001	11648	1.44%	0.033%
58	4.229	4.198	4.258	VV	8266	153332	0.77%	0.018%
59	4.275	4.258	4.303	VV	4570	81850	0.29%	0.007%
60	4.313	4.303	4.332	VV	2193	30700	0.12%	0.003%
61	4.339	4.332	4.360	VV	1269	12495	0.41%	0.009%
62	4.396	4.360	4.422	PV	2638	43192	0.60%	0.014%
63	4.444	4.422	4.470	VV	4548	63880	20.12%	0.458%
64	4.505	4.470	4.531	VV	197201	2135892	1.08%	0.025%
65	4.543	4.531	4.563	VV	9687	114543	0.65%	0.015%
66	4.581	4.563	4.601	VV	5410	69157	0.29%	0.007%
67	4.616	4.601	4.644	VV	1979	30458	0.76%	0.017%
68	4.681	4.644	4.703	VV	3497	80728	0.70%	0.016%
69	4.717	4.703	4.748	VV	3750	74426	0.72%	0.016%
70	4.759	4.748	4.773	VV	2734	29050	2.46%	0.056%
71	4.791	4.773	4.804	VV	12787	136619	1.53%	0.035%
72	4.812	4.804	4.831	VV	6869	69866	3.28%	0.075%
73	4.849	4.831	4.859	VV	5877	74402	1.22%	0.028%
74	4.869	4.859	4.885	VV	6826	76890	0.54%	0.012%
75	4.926	4.885	4.953	VV	13384	261546	1.25%	0.029%
76	4.970	4.953	4.990	VV	11505	162867	3.13%	0.071%
77	5.012	4.990	5.057	VV	23227	348009	2.28%	0.052%
78	5.089	5.057	5.107	VV	9670	129968	2.09%	0.048%
79	5.123	5.107	5.148	VV	4421	57781	2.16%	0.049%
80	5.187	5.148	5.199	VV	11119	133019	0.11%	0.002%
81	5.218	5.199	5.244	VV	20677	331784	1.60%	0.036%
82	5.263	5.244	5.279	VV	21413	242459	1.28%	0.029%
83	5.295	5.279	5.313	VV	16523	222233	2.61%	0.059%
84	5.329	5.313	5.366	VV	17590	229087	2.10%	0.048%
85	5.381	5.366	5.386	VV	1564	11537		
86	5.426	5.386	5.440	VV	9579	169633		
87	5.454	5.440	5.471	VV	9262	135621		
88	5.494	5.471	5.513	VV	14643	276978		
89	5.526	5.513	5.543	VV	18613	223010		

Instrument :

FID_G

ClientSampleId :

AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

90	5.552	5.543	5.561	VV	6230	61275	0.58%	0.013%
91	5.589	5.561	5.604	VV	10860	177993		
92	5.616	5.604	5.627	VV	5516	54276		
93	5.651	5.627	5.702	VV	126436	1823202		
94	5.717	5.702	5.755	VV	5597	142494		
95	5.778	5.755	5.791	VV	5332	85496		
96	5.803	5.791	5.810	VV	5617	51712	0.49%	0.011%
97	5.832	5.810	5.867	VV	30903	653712	6.16%	0.140%
98	5.875	5.867	5.893	VV	12123	144238	1.36%	0.031%
99	5.914	5.893	5.925	VV	17250	209960	1.98%	0.045%
100	5.942	5.925	5.953	VV	45409	546624	5.15%	0.117%
101	5.958	5.953	5.987	VV	39818	540119	5.09%	0.116%
102	5.998	5.987	6.008	VV	18234	186866	1.76%	0.040%
103	6.017	6.008	6.021	VV	16975	125533	1.18%	0.027%
104	6.039	6.021	6.068	VV	51466	774238	7.29%	0.166%
105	6.084	6.068	6.113	VV	19250	376239	3.54%	0.081%
106	6.131	6.113	6.148	VV	29277	376388	3.55%	0.081%
107	6.183	6.148	6.203	VV	29935	611046	5.76%	0.131%
108	6.246	6.203	6.256	VV	29651	666484	6.28%	0.143%
109	6.259	6.256	6.272	VV	27493	244793	2.31%	0.052%
110	6.283	6.272	6.302	VV	32259	397917	3.75%	0.085%
111	6.329	6.302	6.347	VV	43021	635265	5.98%	0.136%
112	6.368	6.347	6.382	VV	40217	634361	5.98%	0.136%
113	6.395	6.382	6.438	VV	45147	976823	9.20%	0.209%
114	6.454	6.438	6.467	VV	34992	437718	4.12%	0.094%
115	6.477	6.467	6.486	VV	24505	264024	2.49%	0.057%
116	6.507	6.486	6.539	VV	38578	831076	7.83%	0.178%
117	6.558	6.539	6.583	VV	25151	553178	5.21%	0.119%
118	6.609	6.583	6.643	VV	60759	1173008	11.05%	0.251%
119	6.652	6.643	6.664	VV	21294	243682	2.30%	0.052%
120	6.689	6.664	6.735	VV	445030	5165435	48.65%	1.107%
121	6.750	6.735	6.756	VV	15788	182137	1.72%	0.039%
122	6.775	6.756	6.788	VV	26306	413346	3.89%	0.089%
123	6.805	6.788	6.821	VV	38758	621512	5.85%	0.133%
124	6.841	6.821	6.865	VV	97700	1409506	13.28%	0.302%
125	6.886	6.865	6.903	VV	41623	738608	6.96%	0.158%
126	6.914	6.903	6.927	VV	33001	388289	3.66%	0.083%
127	6.942	6.927	6.953	VV	30188	423762	3.99%	0.091%
128	6.970	6.953	6.992	VV	70628	967132	9.11%	0.207%
129	7.014	6.992	7.024	VV	46855	653419	6.15%	0.140%
130	7.033	7.024	7.065	VV	44859	836874	7.88%	0.179%
131	7.093	7.065	7.127	VV	151375	2317666	21.83%	0.497%
132	7.136	7.127	7.151	VV	26840	367886	3.47%	0.079%
133	7.169	7.151	7.183	VV	38805	635947	5.99%	0.136%
134	7.218	7.183	7.240	VV	77502	1700468	16.02%	0.364%
135	7.262	7.240	7.291	VV	90689	1524352	14.36%	0.327%
136	7.326	7.291	7.353	VV	110257	2451050	23.09%	0.525%
137	7.369	7.353	7.388	VV	74338	986450	9.29%	0.211%
138	7.411	7.388	7.447	VV	118994	2070825	19.51%	0.444%
139	7.469	7.447	7.492	VV	58928	1165835	10.98%	0.250%
140	7.511	7.492	7.527	VV	50518	790969	7.45%	0.169%
141	7.540	7.527	7.550	VV	35487	435817	4.11%	0.093%

Instrument :

FID_G

ClientSampleId :

AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

142	7.563	7.550	7.567	VV	34950	359128	3.38%	0.077%
143	7.578	7.567	7.586	VV	36678	403471		
144	7.614	7.586	7.623	VV	142314	1867819	17.72%	0.116%
145	7.640	7.623	7.661	VV	399329	4576798	43.82%	0.150%
146	7.674	7.661	7.684	VV	61089	728345	6.10%	0.116%
147	7.690	7.684	7.700	VV	53457	494947	5.34%	0.150%
148	7.707	7.700	7.718	VV	51295	540931	5.10%	0.116%
149	7.725	7.718	7.746	VV	47277	701853	6.61%	0.150%
150	7.761	7.746	7.786	VV	42435	899891	8.48%	0.193%
151	7.812	7.786	7.847	VV	122773	2642470	24.89%	0.566%
152	7.865	7.847	7.887	VV	56805	1032282	9.72%	0.221%
153	7.906	7.887	7.921	VV	49649	778746	7.34%	0.167%
154	7.930	7.921	7.936	VV	36855	323336	3.05%	0.069%
155	7.954	7.936	7.964	VV	70131	932827	8.79%	0.200%
156	7.977	7.964	7.994	VV	71140	1037055	9.77%	0.222%
157	8.010	7.994	8.051	VV	68593	1580556	14.89%	0.339%
158	8.072	8.051	8.087	VV	77246	1255122	11.82%	0.269%
159	8.105	8.087	8.117	VV	82312	1263745	11.90%	0.271%
160	8.123	8.117	8.141	VV	71714	891920	8.40%	0.191%
161	8.168	8.141	8.188	VV	85285	1696356	15.98%	0.363%
162	8.216	8.188	8.233	VV	111399	1881827	17.73%	0.403%
163	8.250	8.233	8.260	VV	120511	1524922	14.36%	0.327%
164	8.272	8.260	8.295	VV	132640	1765552	16.63%	0.378%
165	8.342	8.295	8.377	VV	165046	3549921	33.44%	0.761%
166	8.393	8.377	8.411	VV	53463	988427	9.31%	0.212%
167	8.431	8.411	8.441	VV	84532	1192366	11.23%	0.255%
168	8.445	8.441	8.458	VV	78695	717957	6.76%	0.154%
169	8.473	8.458	8.485	VV	80478	1166492	10.99%	0.250%
170	8.528	8.485	8.550	VV	689875	9426158	88.79%	2.020%
171	8.569	8.550	8.589	VV	80223	1648253	15.53%	0.353%
172	8.600	8.589	8.605	VV	60266	562821	5.30%	0.121%
173	8.624	8.605	8.654	VV	84411	2001006	18.85%	0.429%
174	8.681	8.654	8.698	VV	87764	1831483	17.25%	0.392%
175	8.710	8.698	8.725	VV	80726	1155644	10.89%	0.248%
176	8.745	8.725	8.787	VV	106151	2610041	24.58%	0.559%
177	8.816	8.787	8.840	VV	66213	1731097	16.31%	0.371%
178	8.853	8.840	8.865	VV	56037	747610	7.04%	0.160%
179	8.885	8.865	8.891	VV	81712	1040742	9.80%	0.223%
180	8.899	8.891	8.912	VV	80665	950680	8.95%	0.204%
181	8.920	8.912	8.928	VV	71657	669425	6.31%	0.143%
182	8.949	8.928	8.963	VV	96946	1784690	16.81%	0.382%
183	8.978	8.963	9.000	VV	113513	2009243	18.93%	0.431%
184	9.020	9.000	9.034	VV	93965	1661903	15.65%	0.356%
185	9.067	9.034	9.092	VV	236057	4243512	39.97%	0.909%
186	9.119	9.092	9.135	VV	106154	1954855	18.41%	0.419%
187	9.142	9.135	9.157	VV	67167	808637	7.62%	0.173%
188	9.175	9.157	9.199	VV	74718	1686844	15.89%	0.361%
189	9.214	9.199	9.235	VV	77019	1416341	13.34%	0.303%
190	9.246	9.235	9.263	VV	60765	918405	8.65%	0.197%
191	9.297	9.263	9.314	VV	78019	2074789	19.54%	0.445%
192	9.358	9.314	9.379	VV	574765	8114120	76.43%	1.739%
193	9.385	9.379	9.420	VV	84526	1751896	16.50%	0.375%
194	9.441	9.420	9.465	VV	85500	1817660	17.12%	0.389%

Instrument :

FID_G

ClientSampleId :

AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

							Instrument : FID_G	
							ClientSampleId : AU-6-042425MSD	
rteres								
195	9.500	9.465	9.524	VV	71105	2193165	20.66%	0.470%
							Manual IntegrationsAPPROVED	
196	9.555	9.524	9.568	VV	67204	1574866	14.90%	0.502%
197	9.585	9.568	9.608	VV	78370	1580679	14.90%	0.502%
198	9.639	9.608	9.674	VV	83830	2593626	24.90%	0.502%
199	9.688	9.674	9.701	VV	68665	1012518	9.90%	0.502%
200	9.732	9.701	9.763	VV	138987	3398481	32.90%	0.502%
201	9.776	9.763	9.787	VV	81651	1083175	10.20%	0.232%
202	9.817	9.787	9.840	VV	112792	2855949	26.90%	0.612%
203	9.864	9.840	9.883	VV	113246	2187945	20.61%	0.469%
204	9.916	9.883	9.946	VV	113013	2976899	28.04%	0.638%
205	9.964	9.946	9.985	VV	62213	1347037	12.69%	0.289%
206	10.006	9.985	10.034	VV	144594	2605122	24.54%	0.558%
207	10.049	10.034	10.069	VV	67268	1343125	12.65%	0.288%
208	10.093	10.069	10.116	VV	101644	2341930	22.06%	0.502%
209	10.143	10.116	10.188	VV	767484	10616589	100.00%	2.275%
210	10.213	10.188	10.232	VV	70395	1724511	16.24%	0.370%
211	10.242	10.232	10.286	VV	70057	1844993	17.38%	0.395%
212	10.312	10.286	10.341	VV	69112	1898023	17.88%	0.407%
213	10.353	10.341	10.360	VV	55308	606999	5.72%	0.130%
214	10.372	10.360	10.397	VV	56893	1180760	11.12%	0.253%
215	10.413	10.397	10.435	VV	61804	1298673	12.23%	0.278%
216	10.487	10.435	10.501	VV	99804	2757076	25.97%	0.591%
217	10.530	10.501	10.557	VV	234265	4482797	42.22%	0.961%
218	10.579	10.557	10.600	VV	95752	1986244	18.71%	0.426%
219	10.618	10.600	10.639	VV	106640	1910705	18.00%	0.409%
220	10.674	10.639	10.702	VV	110522	2778041	26.17%	0.595%
221	10.724	10.702	10.738	VV	55946	1133483	10.68%	0.243%
222	10.746	10.738	10.754	VV	53735	501749	4.73%	0.108%
223	10.784	10.754	10.802	VV	66751	1748030	16.47%	0.375%
224	10.811	10.802	10.839	VV	65215	1317156	12.41%	0.282%
225	10.885	10.839	10.922	VV	547336	8603791	81.04%	1.843%
226	10.955	10.922	10.982	VV	265616	5006884	47.16%	1.073%
227	10.998	10.982	11.048	VV	73340	2319849	21.85%	0.497%
228	11.078	11.048	11.087	VV	56649	1262825	11.89%	0.271%
229	11.093	11.087	11.109	VV	57630	699809	6.59%	0.150%
230	11.134	11.109	11.178	VV	59616	2345734	22.09%	0.503%
231	11.206	11.178	11.242	VV	87273	2771442	26.10%	0.594%
232	11.274	11.242	11.317	VV	103036	3349074	31.55%	0.718%
233	11.337	11.317	11.372	VV	85882	2133362	20.09%	0.457%
234	11.390	11.372	11.425	VV	79532	1832583	17.26%	0.393%
235	11.444	11.425	11.471	VV	54373	1369807	12.90%	0.294%
236	11.496	11.471	11.514	VV	53521	1292063	12.17%	0.277%
237	11.537	11.514	11.558	VV	58562	1435633	13.52%	0.308%
238	11.591	11.558	11.624	VV	655975	9111345	85.82%	1.952%
239	11.631	11.624	11.649	VV	60072	868121	8.18%	0.186%
240	11.679	11.649	11.722	VV	172532	3916116	36.89%	0.839%
241	11.745	11.722	11.763	VV	51556	1153098	10.86%	0.247%
242	11.783	11.763	11.805	VV	49978	1159469	10.92%	0.248%
243	11.881	11.805	11.925	VV	75915	3970843	37.40%	0.851%
244	11.944	11.925	11.962	VV	57890	1133032	10.67%	0.243%
245	11.983	11.962	12.006	VV	81998	1672481	15.75%	0.358%
246	12.023	12.006	12.049	VV	71455	1445443	13.61%	0.310%

							Instrument : FID_G	
							ClientSampleId : AUJ-6-042425MSD	
rteres							Manual Integration	
247	12.072	12.049	12.115	VV	69100	2017856	19.01%	0.432%
248	12.140	12.115	12.178	VV	46259	1591037	14.01%	0.432%
249	12.198	12.178	12.214	VV	43242	880612	8.01%	0.432%
250	12.262	12.214	12.288	VV	383178	6243545	58.01%	0.432%
							Reviewed By :Yogesh	
251	12.293	12.288	12.321	VV	48522	919457	8.01%	0.432%
252	12.329	12.321	12.335	VV	45465	378036	3.01%	0.432%
253	12.343	12.335	12.358	VV	45457	596649	5.62%	0.128%
254	12.364	12.358	12.382	VV	43185	608768	5.73%	0.130%
255	12.386	12.382	12.433	VV	40721	1084301	10.21%	0.232%
							Supervised By :m	
256	12.460	12.433	12.481	VV	38411	1015639	9.57%	0.218%
257	12.490	12.481	12.498	VV	35914	340239	3.20%	0.073%
258	12.516	12.498	12.524	VV	55009	736669	6.94%	0.158%
259	12.531	12.524	12.585	VV	56594	1736723	16.36%	0.372%
260	12.597	12.585	12.612	VV	42418	651145	6.13%	0.140%
261	12.640	12.612	12.656	VV	51378	1164552	10.97%	0.250%
262	12.673	12.656	12.707	VV	61683	1332466	12.55%	0.286%
263	12.726	12.707	12.796	VV	49309	1917668	18.06%	0.411%
264	12.825	12.796	12.868	VV	41314	1523354	14.35%	0.326%
265	12.904	12.868	12.945	VV	494952	6966793	65.62%	1.493%
266	12.966	12.945	13.010	VV	50492	1460673	13.76%	0.313%
267	13.020	13.010	13.036	VV	29105	438464	4.13%	0.094%
268	13.046	13.036	13.105	VV	31190	1057799	9.96%	0.227%
269	13.120	13.105	13.132	VV	25525	388118	3.66%	0.083%
270	13.156	13.132	13.185	VV	41354	1063191	10.01%	0.228%
271	13.191	13.185	13.211	VV	32897	461967	4.35%	0.099%
272	13.222	13.211	13.243	VV	30544	494047	4.65%	0.106%
273	13.265	13.243	13.281	VV	47579	813333	7.66%	0.174%
274	13.297	13.281	13.335	VV	40761	1032521	9.73%	0.221%
275	13.350	13.335	13.366	VV	33874	526657	4.96%	0.113%
276	13.398	13.366	13.431	VV	35296	1043739	9.83%	0.224%
277	13.436	13.431	13.439	VV	21066	104572	0.98%	0.022%
278	13.450	13.439	13.480	VV	22829	498432	4.69%	0.107%
279	13.516	13.480	13.545	VV	203969	2981402	28.08%	0.639%
280	13.554	13.545	13.572	VV	26645	396877	3.74%	0.085%
281	13.587	13.572	13.650	VV	26451	995006	9.37%	0.213%
282	13.655	13.650	13.663	VV	16272	119579	1.13%	0.026%
283	13.683	13.663	13.707	VV	18297	407795	3.84%	0.087%
284	13.750	13.707	13.770	VV	30106	841628	7.93%	0.180%
285	13.793	13.770	13.811	VV	22909	505657	4.76%	0.108%
286	13.824	13.811	13.843	VV	19379	329696	3.11%	0.071%
287	13.862	13.843	13.878	VV	21172	370387	3.49%	0.079%
288	13.897	13.878	13.919	VV	22094	445008	4.19%	0.095%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025
Supervised By :mohammad ahmed 05/02/2025

300	14.402	14.382	14.424	VV	11908	239697	2.26%	0.051%
301	14.435	14.424	14.447	VV	9549	122095		
302	14.466	14.447	14.483	VV	16490	262847		
303	14.515	14.483	14.560	VV	16024	522295		
304	14.589	14.560	14.641	VV	22802	583310		
305	14.669	14.641	14.700	VV	80961	1188027		
306	14.728	14.700	14.755	VV	33199	590838	5.57%	0.127%
307	14.759	14.755	14.782	VV	12716	171714	1.62%	0.037%
308	14.793	14.782	14.825	VV	10394	205370	1.93%	0.044%
309	14.846	14.825	14.855	VV	6988	108217	1.02%	0.023%
310	14.878	14.855	14.905	VV	10206	236282	2.23%	0.051%
311	14.924	14.905	14.935	VV	8633	134405	1.27%	0.029%
312	14.942	14.935	14.947	VV	7738	48763	0.46%	0.010%
313	14.958	14.947	14.973	VV	7568	107915	1.02%	0.023%
314	15.007	14.973	15.039	VV	111532	1648309	15.53%	0.353%
315	15.065	15.039	15.084	VV	8633	173483	1.63%	0.037%
316	15.093	15.084	15.122	VV	4580	79510	0.75%	0.017%
317	15.139	15.122	15.147	VV	4360	47736	0.45%	0.010%
318	15.173	15.147	15.180	VV	6622	103853	0.98%	0.022%
319	15.212	15.180	15.252	VV	224230	2921539	27.52%	0.626%
320	15.259	15.252	15.266	VV	3490	26975	0.25%	0.006%
321	15.272	15.266	15.279	VV	3346	22477	0.21%	0.005%
322	15.306	15.279	15.334	VV	5030	123158	1.16%	0.026%
323	15.346	15.334	15.354	VV	2429	25107	0.24%	0.005%
324	15.357	15.354	15.382	VV	2249	27380	0.26%	0.006%
325	15.406	15.382	15.427	PV	4659	61839	0.58%	0.013%
326	15.456	15.427	15.461	VV	2928	42478	0.40%	0.009%
327	15.466	15.461	15.472	VV	2968	16639	0.16%	0.004%
328	15.490	15.472	15.507	VV	4243	70390	0.66%	0.015%
329	15.522	15.507	15.532	VV	3791	43709	0.41%	0.009%
330	15.550	15.532	15.567	VV	4228	60627	0.57%	0.013%
331	15.594	15.567	15.662	VV	36137	695687	6.55%	0.149%
332	15.665	15.662	15.681	VV	2274	17693	0.17%	0.004%
333	15.732	15.681	15.778	VV	28448	460585	4.34%	0.099%
334	15.786	15.778	15.800	VV	2446	28776	0.27%	0.006%
335	15.804	15.800	15.815	VV	2049	15522	0.15%	0.003%
336	15.831	15.815	15.846	VV	3924	56800	0.54%	0.012%
337	15.865	15.846	15.898	VV	3726	64214	0.60%	0.014%
338	15.920	15.898	15.937	PV	2383	40486	0.38%	0.009%
339	15.950	15.937	15.965	VV	3252	40827	0.38%	0.009%
340	15.996	15.965	16.020	VV	4125	98270	0.93%	0.021%
341	16.033	16.020	16.038	VV	3284	28047	0.26%	0.006%
342	16.055	16.038	16.087	VV	4428	82921	0.78%	0.018%
343	16.122	16.087	16.145	VV	4118	91943	0.87%	0.020%
344	16.151	16.145	16.162	VV	2493	22907	0.22%	0.005%
345	16.170	16.162	16.185	VV	2819	32108	0.30%	0.007%
346	16.191	16.185	16.197	VV	2417	14419	0.14%	0.003%
347	16.236	16.197	16.320	VV	184672	2545978	23.98%	0.546%
348	16.337	16.320	16.351	VV	1935	23897	0.23%	0.005%
349	16.358	16.351	16.366	VV	2093	13753	0.13%	0.003%
350	16.369	16.366	16.387	VV	1588	13685	0.13%	0.003%
351	16.428	16.387	16.467	PV	4354	118658	1.12%	0.025%

Instrument :

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ClientSampleId :

AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

					rters			
352	16.490	16.467	16.501	VV	1739	23793	0.22%	0.005%
353	16.536	16.501	16.572	VV	5701	134730		
354	16.615	16.572	16.657	VV	6757	181468		
355	16.679	16.657	16.694	PV	3258	40013		
356	16.721	16.694	16.747	VV	23780	351138		
357	16.753	16.747	16.760	VV	2999	21889		
358	16.764	16.760	16.785	VV	2970	26667	0.25%	0.006%
359	16.815	16.785	16.824	VV	3650	61562	0.58%	0.013%
360	16.851	16.824	16.898	VV	4959	138555	1.31%	0.030%
361	16.905	16.898	16.912	VV	3191	19847	0.19%	0.004%
362	16.920	16.912	16.967	VV	3935	76211	0.72%	0.016%
363	16.992	16.967	17.001	PV	2023	24781	0.23%	0.005%
364	17.019	17.001	17.025	VV	3332	28432	0.27%	0.006%
365	17.048	17.025	17.087	VV	5558	105496	0.99%	0.023%
366	17.112	17.087	17.133	VV	3677	62604	0.59%	0.013%
367	17.190	17.133	17.240	PV	170296	2451607	23.09%	0.525%
368	17.243	17.240	17.274	VV	3933	48774	0.46%	0.010%
369	17.279	17.274	17.284	VV	2260	8617	0.08%	0.002%
370	17.288	17.284	17.291	VV	1090	3074	0.03%	0.001%
371	17.320	17.291	17.326	VV	1975	31831	0.30%	0.007%
372	17.333	17.326	17.340	VV	814	5067	0.05%	0.001%
373	17.360	17.340	17.378	PV	2789	34123	0.32%	0.007%
374	17.388	17.378	17.394	VV	2484	16295	0.15%	0.003%
375	17.427	17.394	17.450	VV	7512	116009	1.09%	0.025%
376	17.473	17.450	17.482	VV	2152	33191	0.31%	0.007%
377	17.505	17.482	17.533	VV	7166	113517	1.07%	0.024%
378	17.559	17.533	17.588	VV	6510	134099	1.26%	0.029%
379	17.601	17.588	17.617	VV	6324	76029	0.72%	0.016%
380	17.641	17.617	17.668	VV	14031	225753	2.13%	0.048%
381	17.676	17.668	17.681	VV	3279	23114	0.22%	0.005%
382	17.684	17.681	17.699	VV	3150	21278	0.20%	0.005%
383	17.719	17.699	17.728	VV	3900	40001	0.38%	0.009%
384	17.752	17.728	17.765	PV	5211	72697	0.68%	0.016%
385	17.770	17.765	17.787	VV	4491	30159	0.28%	0.006%
386	17.811	17.787	17.817	VV	4966	54617	0.51%	0.012%
387	17.820	17.817	17.830	VV	4308	27219	0.26%	0.006%
388	17.846	17.830	17.869	VV	4347	73752	0.69%	0.016%
389	17.880	17.869	17.885	VV	3277	21311	0.20%	0.005%
390	17.908	17.885	17.927	VV	5995	76278	0.72%	0.016%
391	17.931	17.927	17.935	VV	2568	8682	0.08%	0.002%
392	17.979	17.935	17.986	VV	10080	157044	1.48%	0.034%
393	17.990	17.986	17.999	VV	8710	57081	0.54%	0.012%
394	18.010	17.999	18.017	VV	8822	79763	0.75%	0.017%
395	18.035	18.017	18.040	VV	8678	106866	1.01%	0.023%
396	18.080	18.040	18.123	VV	172492	2584458	24.34%	0.554%
397	18.128	18.123	18.135	VV	7278	46667	0.44%	0.010%
398	18.139	18.135	18.165	VV	7449	92926	0.88%	0.020%
399	18.176	18.165	18.191	VV	7394	85180	0.80%	0.018%
400	18.218	18.191	18.237	VV	20278	353555	3.33%	0.076%
401	18.243	18.237	18.263	VV	12765	145272	1.37%	0.031%
402	18.273	18.263	18.289	VV	9775	127283	1.20%	0.027%
403	18.305	18.289	18.316	VV	7625	110495	1.04%	0.024%
404	18.320	18.316	18.335	VV	6470	60639	0.57%	0.013%

Instrument :

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AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

405	18.349	18.335	18.364	VV	6867	100157	0.94%	0.021%
406	18.365	18.364	18.375	VV	6238	35578		
407	18.444	18.375	18.477	VV	28897	891749		
408	18.504	18.477	18.529	VV	28718	564689		
409	18.533	18.529	18.540	VV	12190	78344		
410	18.591	18.540	18.614	VV	21728	702699		
411	18.621	18.614	18.639	VV	14999	204533	1.93%	0.044%
412	18.662	18.639	18.694	VV	17803	466674	4.40%	0.100%
413	18.713	18.694	18.735	VV	18579	386622	3.64%	0.083%
414	18.753	18.735	18.757	VV	16705	203210	1.91%	0.044%
415	18.767	18.757	18.777	VV	16307	175690	1.65%	0.038%
416	18.786	18.777	18.804	VV	15686	228301	2.15%	0.049%
417	18.809	18.804	18.818	VV	14659	107015	1.01%	0.023%
418	18.837	18.818	18.843	VV	15406	213819	2.01%	0.046%
419	18.875	18.843	18.883	VV	22106	427480	4.03%	0.092%
420	18.917	18.883	18.944	VV	160221	2629839	24.77%	0.563%
421	18.949	18.944	18.954	VV	18955	98151	0.92%	0.021%
422	18.984	18.954	18.992	VV	22309	466001	4.39%	0.100%
423	19.019	18.992	19.032	VV	31732	646368	6.09%	0.138%
424	19.065	19.032	19.087	VV	33730	895933	8.44%	0.192%
425	19.093	19.087	19.099	VV	25504	181729	1.71%	0.039%
426	19.109	19.099	19.135	VV	27784	543699	5.12%	0.116%
427	19.167	19.135	19.172	VV	28113	524359	4.94%	0.112%
428	19.202	19.172	19.207	VV	29281	577017	5.44%	0.124%
429	19.211	19.207	19.221	VV	28197	230458	2.17%	0.049%
430	19.234	19.221	19.247	VV	27408	376604	3.55%	0.081%
431	19.273	19.247	19.295	VV	47127	1035422	9.75%	0.222%
432	19.316	19.295	19.338	VV	46648	1014884	9.56%	0.217%
433	19.352	19.338	19.365	VV	42707	618477	5.83%	0.133%
434	19.384	19.365	19.390	VV	35306	473812	4.46%	0.102%
435	19.418	19.390	19.427	VV	40674	845706	7.97%	0.181%
436	19.445	19.427	19.459	VV	44475	755232	7.11%	0.162%
437	19.475	19.459	19.485	VV	40582	611578	5.76%	0.131%
438	19.490	19.485	19.502	VV	41033	400030	3.77%	0.086%
439	19.510	19.502	19.515	VV	43318	327482	3.08%	0.070%
440	19.522	19.515	19.537	VV	41634	514768	4.85%	0.110%
441	19.545	19.537	19.551	VV	41675	319838	3.01%	0.069%
442	19.554	19.551	19.561	VV	38379	222140	2.09%	0.048%
443	19.566	19.561	19.572	VV	38525	245369	2.31%	0.053%
444	19.580	19.572	19.590	VV	38786	406960	3.83%	0.087%
445	19.608	19.590	19.624	VV	42894	735529	6.93%	0.158%
446	19.629	19.624	19.632	VV	36932	184647	1.74%	0.040%
447	19.653	19.632	19.665	VV	39291	734478	6.92%	0.157%
448	19.703	19.665	19.727	VV	124614	2703402	25.46%	0.579%
449	19.733	19.727	19.744	VV	51140	484803	4.57%	0.104%
450	19.747	19.744	19.753	VV	49337	258817	2.44%	0.055%
451	19.760	19.753	19.772	VV	51134	551182	5.19%	0.118%
452	19.808	19.772	19.829	VV	62906	1842307	17.35%	0.395%
453	19.832	19.829	19.841	VV	58107	412375	3.88%	0.088%
454	19.848	19.841	19.853	VV	54465	369210	3.48%	0.079%
455	19.877	19.853	19.894	VV	55330	1290352	12.15%	0.276%
456	19.901	19.894	19.907	VV	53879	423611	3.99%	0.091%

Instrument :

FID_G

ClientSampleId :

AU-6-042425MSD

0.94% 0.021%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

					rters			
457	19.909	19.907	19.912	VV	53076	161076	1.52%	0.035%
458	19.923	19.912	19.929	VV	61084	560877		
459	19.934	19.929	19.943	VV	58332	479092		
460	19.954	19.943	19.970	VV	63071	922686		
461	20.000	19.970	20.023	VV	64968	1885314	17.04%	0.388%
462	20.067	20.023	20.072	VV	72872	1906565	17.04%	0.388%
463	20.080	20.072	20.097	VV	76274	1065326	10.03%	0.228%
464	20.116	20.097	20.121	VV	75526	974946	9.18%	0.209%
465	20.124	20.121	20.135	VV	72354	591200	5.57%	0.127%
466	20.163	20.135	20.178	VV	70564	1714054	16.15%	0.367%
467	20.184	20.178	20.194	VV	69660	634877	5.98%	0.136%
468	20.217	20.194	20.225	VV	73340	1320042	12.43%	0.283%
469	20.236	20.225	20.248	VV	77407	988019	9.31%	0.212%
470	20.275	20.248	20.290	VV	74668	1809269	17.04%	0.388%
471	20.295	20.290	20.300	VV	73334	428995	4.04%	0.092%
472	20.318	20.300	20.331	VV	76290	1353851	12.75%	0.290%
473	20.346	20.331	20.376	VV	85705	2129804	20.06%	0.456%
474	20.384	20.376	20.389	VV	80055	616060	5.80%	0.132%
475	20.449	20.389	20.468	VV	146208	4714797	44.41%	1.010%
476	20.471	20.468	20.478	VV	90010	522536	4.92%	0.112%
477	20.509	20.478	20.524	VV	101881	2537618	23.90%	0.544%
478	20.527	20.524	20.534	VV	97957	573263	5.40%	0.123%
479	20.545	20.534	20.567	VV	94658	1793122	16.89%	0.384%
480	20.588	20.567	20.601	VV	94656	1868433	17.60%	0.400%
481	20.640	20.601	20.646	VV	96524	2416039	22.76%	0.518%
482	20.671	20.646	20.684	VV	98332	2144923	20.20%	0.460%
483	20.691	20.684	20.701	VV	96626	928547	8.75%	0.199%
484	20.714	20.701	20.719	VV	98710	1037021	9.77%	0.222%
485	20.728	20.719	20.735	VV	100512	954980	9.00%	0.205%
486	20.748	20.735	20.762	VV	101636	1556050	14.66%	0.333%
487	20.797	20.762	20.817	VV	108050	3370903	31.75%	0.722%
488	20.826	20.817	20.835	VV	103273	1057417	9.96%	0.227%
489	20.841	20.835	20.880	VV	100487	2537929	23.91%	0.544%
490	20.886	20.880	20.897	VV	92737	882961	8.32%	0.189%
491	20.907	20.897	20.914	VV	86118	845636	7.97%	0.181%
492	20.923	20.914	20.933	VV	82857	926648	8.73%	0.199%
493	20.942	20.933	20.968	VV	83431	1683896	15.86%	0.361%
494	20.975	20.968	20.987	VV	82825	845576	7.96%	0.181%
495	20.998	20.987	21.003	VV	81269	778250	7.33%	0.167%
496	21.017	21.003	21.027	VV	85662	1181075	11.12%	0.253%
497	21.032	21.027	21.052	VV	86929	1244427	11.72%	0.267%
498	21.060	21.052	21.065	VV	88880	701696	6.61%	0.150%
499	21.070	21.065	21.082	VV	88504	857469	8.08%	0.184%
500	21.106	21.082	21.118	VV	84751	1721434	16.21%	0.369%
501	21.125	21.118	21.142	VV	82366	1098055	10.34%	0.235%
502	21.148	21.142	21.160	VV	79889	845310	7.96%	0.181%
503	21.188	21.160	21.240	VV	111670	4064010	38.28%	0.871%
504	21.249	21.240	21.258	VV	68260	701399	6.61%	0.150%
505	21.265	21.258	21.291	VV	65826	1272708	11.99%	0.273%
506	21.312	21.291	21.317	VV	65799	982054	9.25%	0.210%
507	21.356	21.317	21.364	VV	71264	1855929	17.48%	0.398%
508	21.368	21.364	21.381	VV	70193	682847	6.43%	0.146%
509	21.394	21.381	21.414	VV	71462	1315537	12.39%	0.282%

Instrument :

FID_G

ClientSampleId :

AU-6-042425MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/30/2025

Supervised By :mohammad ahmed 05/02/2025

							Instrument : FID_G	
							ClientSampleId : AU-6-042425MSD	
rterres							Manual Integration	
510	21.425	21.414	21.463	VV	69192	1801424	16.97%	0.386%
511	21.468	21.463	21.490	VV	56081	864093		
512	21.499	21.490	21.508	VV	53969	513996		
513	21.513	21.508	21.527	VV	49501	541535		
514	21.535	21.527	21.567	VV	49494	1122242		
515	21.577	21.567	21.589	VV	46030	573779		
516	21.631	21.589	21.638	VV	60054	1562975	14.72%	0.335%
517	21.645	21.638	21.654	VV	55857	523686	4.93%	0.112%
518	21.658	21.654	21.663	VV	55521	274409	2.58%	0.059%
519	21.673	21.663	21.682	VV	54877	606466	5.71%	0.130%
520	21.699	21.682	21.705	VV	56848	721585	6.80%	0.155%
521	21.718	21.705	21.725	VV	56485	653403	6.15%	0.140%
522	21.735	21.725	21.748	VV	55708	694147	6.54%	0.149%
523	21.752	21.748	21.759	VV	54038	356285	3.36%	0.076%
524	21.768	21.759	21.779	VV	48924	543200	5.12%	0.116%
525	21.784	21.779	21.799	VV	43788	496479	4.68%	0.106%
526	21.809	21.799	21.822	VV	42241	545459	5.14%	0.117%
527	21.827	21.822	21.833	VV	39232	231885	2.18%	0.050%
528	21.838	21.833	21.873	VV	38688	716426	6.75%	0.154%
529	21.884	21.873	21.891	VV	31115	286814	2.70%	0.061%
530	21.897	21.891	21.910	VV	28323	267661	2.52%	0.057%
531	21.920	21.910	21.930	VV	25954	257257	2.42%	0.055%
532	21.936	21.930	21.948	VV	19949	176389	1.66%	0.038%
533	21.952	21.948	21.957	VV	18181	90344	0.85%	0.019%
534	21.987	21.957	21.999	VV	23577	481300	4.53%	0.103%
535	22.008	21.999	22.019	VV	24409	252632	2.38%	0.054%
536	22.027	22.019	22.037	VV	26899	252650	2.38%	0.054%
537	22.060	22.037	22.066	VV	29577	390722	3.68%	0.084%
538	22.120	22.066	22.159	VV	52103	1977763	18.63%	0.424%
539	22.174	22.159	22.204	VV	26447	500445	4.71%	0.107%
540	22.210	22.204	22.220	VV	17116	141393	1.33%	0.030%
541	22.225	22.220	22.244	VV	15105	195353	1.84%	0.042%
542	22.256	22.244	22.266	VV	19165	203868	1.92%	0.044%
543	22.270	22.266	22.292	VV	16548	219729	2.07%	0.047%
544	22.299	22.292	22.327	VV	14171	223272	2.10%	0.048%
545	22.339	22.327	22.367	VV	11834	132846	1.25%	0.028%
546	22.371	22.367	22.378	VV	6008	22986	0.22%	0.005%
547	22.389	22.378	22.400	PBA	8585	165893	1.56%	0.036%
Sum of corrected areas:							466710168	

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
PB167783BS		FG015774.D	FG042925	N-DOTRIACONTANE	mohammad	5/2/2025 3:02:56 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-DOCOSANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-EICOSANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-HEXADECANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-OCTADECANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MS		FG015776.D	FG042925	N-TETRADECANE	mohammad	5/2/2025 3:03:00 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-DODECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-EICOSANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-HEXADECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-OCTADECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-TETRACONTANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1877-01MSD		FG015777.D	FG042925	N-TETRADECANE	mohammad	5/2/2025 3:03:02 AM	Peak Integrated by Software incorrectly
Q1907-01		FG015778.D	FG042925	TETRACOSANE-d50 (SURROGA	mohammad	5/2/2025 3:03:05 AM	Peak Integrated by Software incorrectly
Q1877-01		FG015779.D	FG042925	TETRACOSANE-d50 (SURROGA	mohammad	5/2/2025 3:03:09 AM	Peak Integrated by Software incorrectly

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG042425

Review By	yogesh	Review On	4/24/2025 12:59:08 PM
Supervise By	mohammad	Supervise On	4/26/2025 2:19:49 AM
SubDirectory	FG042425	HP Acquire Method	HP Processing Method FG042425
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015754.D	24 Apr 2025 09:50	YP\AJ	Ok
2	I.BLK	FG015755.D	24 Apr 2025 10:19	YP\AJ	Ok
3	100 TRPH STD	FG015756.D	24 Apr 2025 10:48	YP\AJ	Ok
4	50 TRPH STD	FG015757.D	24 Apr 2025 11:17	YP\AJ	Ok
5	20 TRPH STD	FG015758.D	24 Apr 2025 11:46	YP\AJ	Ok
6	10 TRPH STD	FG015759.D	24 Apr 2025 12:16	YP\AJ	Ok
7	5 TRPH STD	FG015760.D	24 Apr 2025 12:45	YP\AJ	Ok
8	FG042225ICV	FG015761.D	24 Apr 2025 13:14	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG042925

Review By	yogesh	Review On	4/29/2025 2:41:54 PM
Supervise By	mohammad	Supervise On	5/2/2025 3:03:36 AM
SubDirectory	FG042925	HP Acquire Method	HP Processing Method FG042425
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015762.D	29 Apr 2025 11:55	YP\AJ	Ok
2	I.BLK	FG015763.D	29 Apr 2025 12:24	YP\AJ	Ok
3	50 PPM TRPH STD	FG015764.D	29 Apr 2025 12:53	YP\AJ	Ok
4	RT MARKER	FG015765.D	29 Apr 2025 13:52	YP\AJ	Ok
5	Q1901-02	FG015766.D	29 Apr 2025 14:51	YP\AJ	Ok
6	Q1901-03	FG015767.D	29 Apr 2025 15:20	YP\AJ	Ok
7	Q1901-04	FG015768.D	29 Apr 2025 15:49	YP\AJ	Ok
8	Q1901-05	FG015769.D	29 Apr 2025 16:19	YP\AJ	Ok
9	Q1907-01	FG015770.D	29 Apr 2025 16:48	YP\AJ	Dilution
10	I.BLK	FG015771.D	29 Apr 2025 17:17	YP\AJ	Ok
11	50 PPM TRPH STD	FG015772.D	29 Apr 2025 18:16	YP\AJ	Ok
12	PB167783BL	FG015773.D	29 Apr 2025 19:15	YP\AJ	Ok
13	PB167783BS	FG015774.D	29 Apr 2025 19:44	YP\AJ	Ok,M
14	Q1877-01	FG015775.D	29 Apr 2025 20:14	YP\AJ	Dilution
15	Q1877-01MS	FG015776.D	29 Apr 2025 20:43	YP\AJ	Ok,M
16	Q1877-01MSD	FG015777.D	29 Apr 2025 21:13	YP\AJ	Ok,M
17	Q1907-01	FG015778.D	29 Apr 2025 21:42	YP\AJ	Ok,M
18	Q1877-01	FG015779.D	29 Apr 2025 22:11	YP\AJ	Ok,M
19	I.BLK	FG015780.D	29 Apr 2025 22:41	YP\AJ	Ok
20	50 PPM TRPH STD	FG015781.D	29 Apr 2025 23:40	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG042425

Review By	yogesh	Review On	4/24/2025 12:59:08 PM
Supervise By	mohammad	Supervise On	4/26/2025 2:19:49 AM
SubDirectory	FG042425	HP Acquire Method	HP Processing Method FG042425
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015754.D	24 Apr 2025 09:50		YP\AJ	Ok
2	I.BLK		FG015755.D	24 Apr 2025 10:19		YP\AJ	Ok
3	100 TRPH STD		FG015756.D	24 Apr 2025 10:48		YP\AJ	Ok
4	50 TRPH STD		FG015757.D	24 Apr 2025 11:17		YP\AJ	Ok
5	20 TRPH STD		FG015758.D	24 Apr 2025 11:46		YP\AJ	Ok
6	10 TRPH STD		FG015759.D	24 Apr 2025 12:16		YP\AJ	Ok
7	5 TRPH STD		FG015760.D	24 Apr 2025 12:45		YP\AJ	Ok
8	FG042225ICV		FG015761.D	24 Apr 2025 13:14		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG042925

Review By	yogesh	Review On	4/29/2025 2:41:54 PM
Supervise By	mohammad	Supervise On	5/2/2025 3:03:36 AM
SubDirectory	FG042925	HP Acquire Method	HP Processing Method FG042425

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG015762.D	29 Apr 2025 11:55		YP\AJ	Ok
2	I.BLK		FG015763.D	29 Apr 2025 12:24		YP\AJ	Ok
3	50 PPM TRPH STD		FG015764.D	29 Apr 2025 12:53		YP\AJ	Ok
4	RT MARKER		FG015765.D	29 Apr 2025 13:52		YP\AJ	Ok
5	Q1901-02		FG015766.D	29 Apr 2025 14:51		YP\AJ	Ok
6	Q1901-03		FG015767.D	29 Apr 2025 15:20		YP\AJ	Ok
7	Q1901-04		FG015768.D	29 Apr 2025 15:49		YP\AJ	Ok
8	Q1901-05		FG015769.D	29 Apr 2025 16:19		YP\AJ	Ok
9	Q1907-01		FG015770.D	29 Apr 2025 16:48	need 10x dilution	YP\AJ	Dilution
10	I.BLK		FG015771.D	29 Apr 2025 17:17		YP\AJ	Ok
11	50 PPM TRPH STD		FG015772.D	29 Apr 2025 18:16		YP\AJ	Ok
12	PB167783BL		FG015773.D	29 Apr 2025 19:15		YP\AJ	Ok
13	PB167783BS		FG015774.D	29 Apr 2025 19:44		YP\AJ	Ok,M
14	Q1877-01		FG015775.D	29 Apr 2025 20:14	need 10x dilution	YP\AJ	Dilution
15	Q1877-01MS		FG015776.D	29 Apr 2025 20:43		YP\AJ	Ok,M
16	Q1877-01MSD		FG015777.D	29 Apr 2025 21:13		YP\AJ	Ok,M
17	Q1907-01		FG015778.D	29 Apr 2025 21:42		YP\AJ	Ok,M
18	Q1877-01		FG015779.D	29 Apr 2025 22:11		YP\AJ	Ok,M

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG042925

Review By	yogesh	Review On	4/29/2025 2:41:54 PM
Supervise By	mohammad	Supervise On	5/2/2025 3:03:36 AM
SubDirectory	FG042925	HP Acquire Method	HP Processing Method FG042425

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC Internal Standard/PEM	PP24469
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473

19	I.BLK		FG015780.D	29 Apr 2025 22:41		YP\AJ	Ok
20	50 PPM TRPH STD		FG015781.D	29 Apr 2025 23:40		YP\AJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

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
Q1872-24	HW0425-PT-SOL-SOIL	8	0.92	10.30	11.22	8.82	76.7	
Q1901-01	B-170-SB00	1	1.14	5.55	6.69	6.28	92.6	
Q1901-02	B-167-SB01	2	1.14	10.22	11.36	9.58	82.6	
Q1901-03	B-170-SB01	3	1.19	10.31	11.5	9.75	83.0	
Q1901-04	B-167-SB02	4	1.15	9.78	10.93	6.35	53.2	
Q1901-05	B-170-SB02	5	1.14	10.16	11.3	8.77	75.1	
Q1902-01	343	6	1.19	10.23	11.42	10.7	93.0	
Q1902-02	343	7	1.13	10.19	11.32	10.33	90.3	
Q1903-01	COMP-4	9	1.18	11.14	12.32	10.46	83.3	
Q1903-02	COMP-5	10	1.16	10.50	11.66	9.44	78.9	
Q1903-03	COMP-6	11	1.17	10.60	11.77	10.06	83.9	
Q1904-01	VNJ-210	12	1.19	10.39	11.58	10.6	90.6	
Q1905-01	MH-G	13	1.15	10.35	11.5	10.38	89.2	
Q1905-02	MH-G-EPH	14	1.16	9.65	10.81	9.71	88.6	
Q1905-03	MH-G-VOC	15	1.16	10.33	11.49	10.36	89.1	
Q1905-05	MH-H	16	1.12	10.03	11.15	10.5	93.5	
Q1905-06	MH-H-EPH	17	1.13	10.30	11.43	10.5	91.0	
Q1905-07	MH-H-VOC	18	1.12	10.03	11.15	10.01	88.6	
Q1906-01	WC-4	19	1.15	9.85	11.00	10.14	91.3	
Q1906-02	WC-4-EPH	20	1.16	9.97	11.13	10.17	90.4	
Q1906-03	WC-4-VOC	21	1.18	9.99	11.17	9.91	87.4	
Q1906-05	WC-5	22	1.16	10.82	11.98	10.19	83.5	
Q1906-06	WC-5-EPH	23	1.13	10.41	11.54	9.94	84.6	
Q1906-07	WC-5-VOC	24	1.18	10.47	11.65	11.63	99.8	
Q1906-09	WC-6	25	1.14	10.04	11.18	10.4	92.2	
Q1906-10	WC-6-EPH	26	1.15	10.77	11.92	10.23	84.3	
Q1906-11	WC-6-VOC	27	1.14	10.47	11.61	10.86	92.8	
Q1906-13	WC-7	28	1.14	10.85	11.99	10.31	84.5	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 04/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:37
Out Date: 04/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135575

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
Q1906-14	WC-7-EPH	29	1.12	9.86	10.98	9.7	87.0	
Q1906-15	WC-7-VOC	30	1.13	10.27	11.4	10.23	88.6	
Q1907-01	CO-8R-WC	31	1.13	10.26	11.39	9.81	84.6	

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

WORKLIST(Hardcopy Internal Chain)

135545

WorkList Name : %1-042825

WorkList ID : 189159

Department : Wet-Chemistry

Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-24	HW0425-PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1903-01	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-02	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1903-03	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	L51	04/25/2025	Chemtech -SO
Q1901-01	B-170-SB00	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-02	B-167-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-03	B-170-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-04	B-167-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1901-05	B-170-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	L51	04/26/2025	Chemtech -SO
Q1902-01	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1902-02	343	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1904-01	VNJ-210	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-01	MH-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-02	MH-G-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-03	MH-G-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-13	WC-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-14	WC-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-15	WC-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-06	WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-07	WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 04/28/25 17:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

Handwritten signature

WorkList Name : %1-042825 WorkList ID : 189159 Department : Wet-Chemistry Date : 04-28-2025 07:59:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1906-09	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-10	WC-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-11	WC-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1905-05	MH-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-06	MH-H-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1905-07	MH-H-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/28/2025	Chemtech -SO
Q1906-01	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-02	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1906-03	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/28/2025	Chemtech -SO
Q1907-01	CO-8R-WC	Solid	Percent Solids	Cool 4 deg C	WALS01	L51	04/28/2025	Chemtech -SO

Date/Time 04/28/25 16:15
 Raw Sample Received by: *Handwritten signature*
 Raw Sample Relinquished by: *Handwritten signature*

Date/Time 04/28/25 17:30
 Raw Sample Received by: *Handwritten signature*
 Raw Sample Relinquished by: *Handwritten signature*

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Extraction Start Date : 04/29/2025

Matrix : Solid

Extraction Start Time : 10:49

Weigh By: EH

Extraction By: RJ

Extraction End Date : 04/29/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 13:50

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3880

Hood ID: 3,7

Supervisor By : RUPESH

Extraction Method: ☐ Separatory Funnel

☐ Continous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP24162
Surrogate	1.0ML	20 PPM	PP24180
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Methylene Chloride	N/A	E3926
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

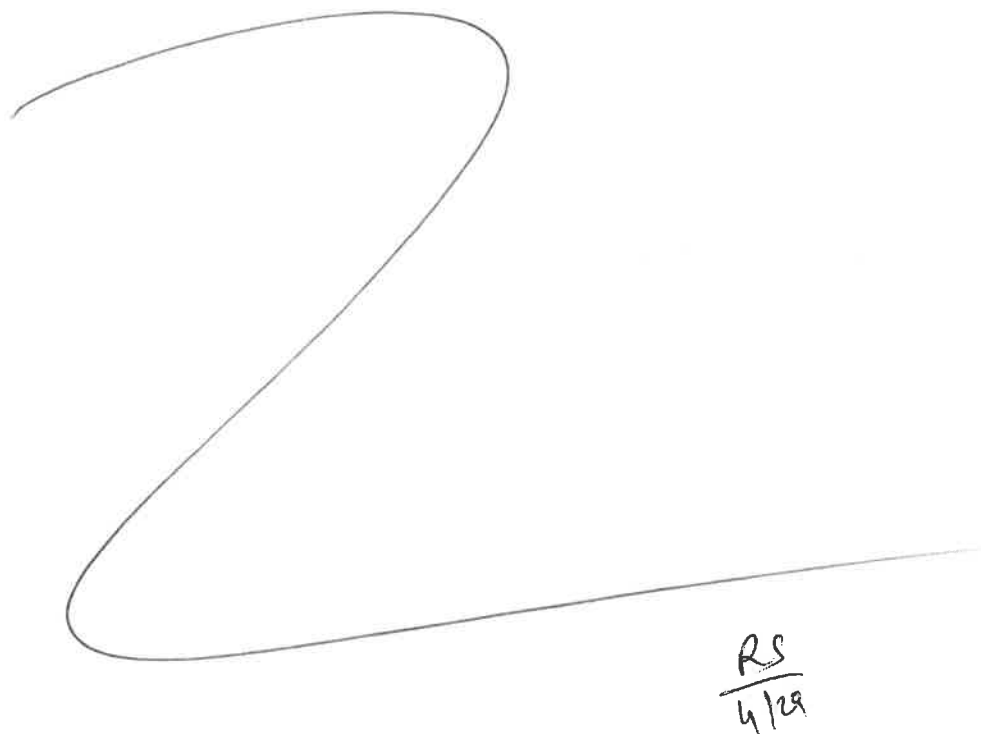
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/29/25	RS (Ext Lab)	T-P. Pugh
13:55	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/29/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167783BL	PB167783BL	TPH GC	30.01	N/A	ritesh	Evelyn	1			U2-1
PB167783BS	PB167783BS	TPH GC	30.03	N/A	ritesh	Evelyn	1			2
Q1877-01	AU-6-042425	TPH GC	30.04	N/A	ritesh	Evelyn	1	D		3
Q1877-01MS	AU-6-042425MS	TPH GC	30.09	N/A	ritesh	Evelyn	1	D		4
Q1877-01MS D	AU-6-042425MSD	TPH GC	30.07	N/A	ritesh	Evelyn	1	D		5
Q1901-02	B-167-SB01	TPH GC	30.02	N/A	ritesh	Evelyn	1	F		6
Q1901-03	B-170-SB01	TPH GC	30.08	N/A	ritesh	Evelyn	1	E		U3-1
Q1901-04	B-167-SB02	TPH GC	30.05	N/A	ritesh	Evelyn	1	E		2
Q1901-05	B-170-SB02	TPH GC	30.04	N/A	ritesh	Evelyn	1	E		3
Q1907-01	CO-8R-WC	TPH GC	30.06	N/A	ritesh	Evelyn	1	D		4



RS
4/29

16778
584491
57:01

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1877T WorkList ID : 189204 Department : Extraction Date : 04-29-2025 10:42:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1877-01	AU-6-042425	Solid	TPH GC	Cool 4 deg C	PSEG05	L41	04/24/2025	8015D
Q1901-02	B-167-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1901-03	B-170-SB01	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1901-04	B-167-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1901-05	B-170-SB02	Solid	TPH GC	Cool 4 deg C	PORT06	L51	04/26/2025	8015D
Q1907-01	CO-8R-WC	Solid	TPH GC	Cool 4 deg C	WALS01	L51	04/28/2025	8015D

Date/Time 4/29/25 10:45
Raw Sample Received by: RJ (EX-66)
Raw Sample Relinquished by: CP 8m

Date/Time 4/29/25 11:05
Raw Sample Received by: CP 8m
Raw Sample Relinquished by: RJ (EX-66)



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Summa Health
ADDRESS: 1010 Adams Ave
CITY: Aurora STATE: PA ZIP: 18403
ATTENTION: Joe Krusky
PHONE: 610-310-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SB
PROJECT NO.: 95000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krusky
e-mail: Joe.Krusky@Bemsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#: 07092
ADDRESS: 284 Sheffield
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Summa Health PHONE: 188-728-348

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 10 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 Bem EDD

1. TCL-VOLATILE
2. PLBS
3. Crating
4. TCL-SUBSTRATE
5. SAL MENTS
6. EPA
7. TCLP (L)
8. PLRP (L)
9. PLRP (L)

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	B-170-SB00	S		X	4/26/25	900	4	X										
2.	B-167-SB01	S		X		1000	7	X	X	X	X		X	X	X	X		
3.	B-170-SB01	S		X		1015	7	X	X	X	X		X	X	X	X		
4.	B-167-SB02	S		X		1030	8	X	X	X	X		X	X	X	X		
5.	B-170-SB02	S		X		1145	7	X	X	X	X		X	X	X	X		
6.	FB04262025	DI W				1215	11	X	X	X	X	X	X	X	X	X		PH 1.3
7.	TB04262025	DI W				NA	2	X										
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>4/26/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	4-28-25 0700	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.		Comments: <u>Tr. 6.0 #1 "Adjust Factor + 1"</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.		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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1901 PORT06

Order Date : 4/28/2025 10:24:00 AM

Project Mgr :
Client Name : Portal Partners Tri-Venture

Project Name : Amtrak Sawtooth Bridges 2

Report Type : NJ Reduced

Client Contact : Joseph Krupansky

Receive DateTime : 4/28/2025 7:00:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Portal Partners Tri-Venture

Purchase Order :
Hard Copy Date :
Invoice Contact : Joseph Krupansky

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1901-01	B-170-SB00	Solid	04/26/2025	09:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-02	B-167-SB01	Solid	04/26/2025	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-03	B-170-SB01	Solid	04/26/2025	10:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-04	B-167-SB02	Solid	04/26/2025	10:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-05	B-170-SB02	Solid	04/26/2025	11:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1901-06	FB04262025	Water	04/26/2025	12:15					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1901-07	TB04262025	Water	04/26/2025	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1901	PORT06	Order Date : 4/28/2025 10:24:00 AM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 4/28/2025 7:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By : CP

Date / Time : 4/28/25 11:45

Received By : JK

Date / Time : 4/28/25 1145

Storage Area : VOA Refridgerator Room