

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:	Q1542	OrderDate:	3/11/2025 11:00:00 AM
Client:	Sciacca General Contractors, LLC	Project:	248 Union St., Lodi
Contact:	Rosanne Scirica	Location:	--Select--,F11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1542-01	WASTE	SOIL	TPH GC	8015D	03/10/25	03/12/25	03/12/25	03/11/25



QC SUMMARY

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Sciacca General Contractors, LLC
Lab Code: CHEM Case No.: Q1542 SAS No.: Q1542 SDG No.: Q1542

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF015653.D	113				0
PIBLK-FF015662.D	92				0
PB167095BL	75				0
PB167095BS	82				0
WASTE	87				0
WASTEMS	68				0
WASTEMSD	66				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:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1542 **SAS No :** Q1542 **SDG No:** Q1542
Client SampleID : WASTEMS **Datafile:** FF015660.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	13273	57400	50860	-49%	*	68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1542 **SAS No :** Q1542 **SDG No:** Q1542
Client SampleID : WASTEMSD **Datafile:** FF015661.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	13264	57400	49962	-56%	*	68-131

MS/MSD % Recovery RPD : 12.9

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

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1542 **SAS No :** Q1542 **SDG No:** Q1542
Matrix Spike - EPA Sample No : PB167095BS **Datafile:** FF015657.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11326	0	8101	72	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167095BL

Lab Name: CHEMTECH

Contract: SCIA01

Lab Code: CHEM Case No.: Q1542

SAS No.: Q1542 SDG NO.: Q1542

Lab File ID: FF015656.D

Lab Sample ID: PB167095BL

Instrument ID: FF

Date Extracted: 03/12/2025

Matrix: (soil/water) Soil

Date Analyzed: 03/12/25

Level: (low/med) low

Time Analyzed: 11:59

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167095BS	PB167095BS	FF015657.D	03/12/25
WASTE	Q1542-01	FF015658.D	03/12/25
WASTEMS	Q1542-01MS	FF015660.D	03/12/25
WASTEMSD	Q1542-01MSD	FF015661.D	03/12/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	03/10/25	
Project:	248 Union St., Lodi		Date Received:	03/11/25	
Client Sample ID:	WASTE		SDG No.:	Q1542	
Lab Sample ID:	Q1542-01		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	85.3	Decanted:
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
FF015658.D	1	03/12/25 08:40	03/12/25 12:58	PB167095

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
PHC	Petroleum Hydrocarbons	57400		372	1660	3310	ug/kg
SURROGATES							
16416-32-3	TETRACOSANE-d50	17.5		37 - 130		87%	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_F\Data\FF031225\
Data File : FF015658.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 12:58
Operator : YP\AJ
Sample : Q1542-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Mar 13 02:29:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.022	2083654	17.475 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

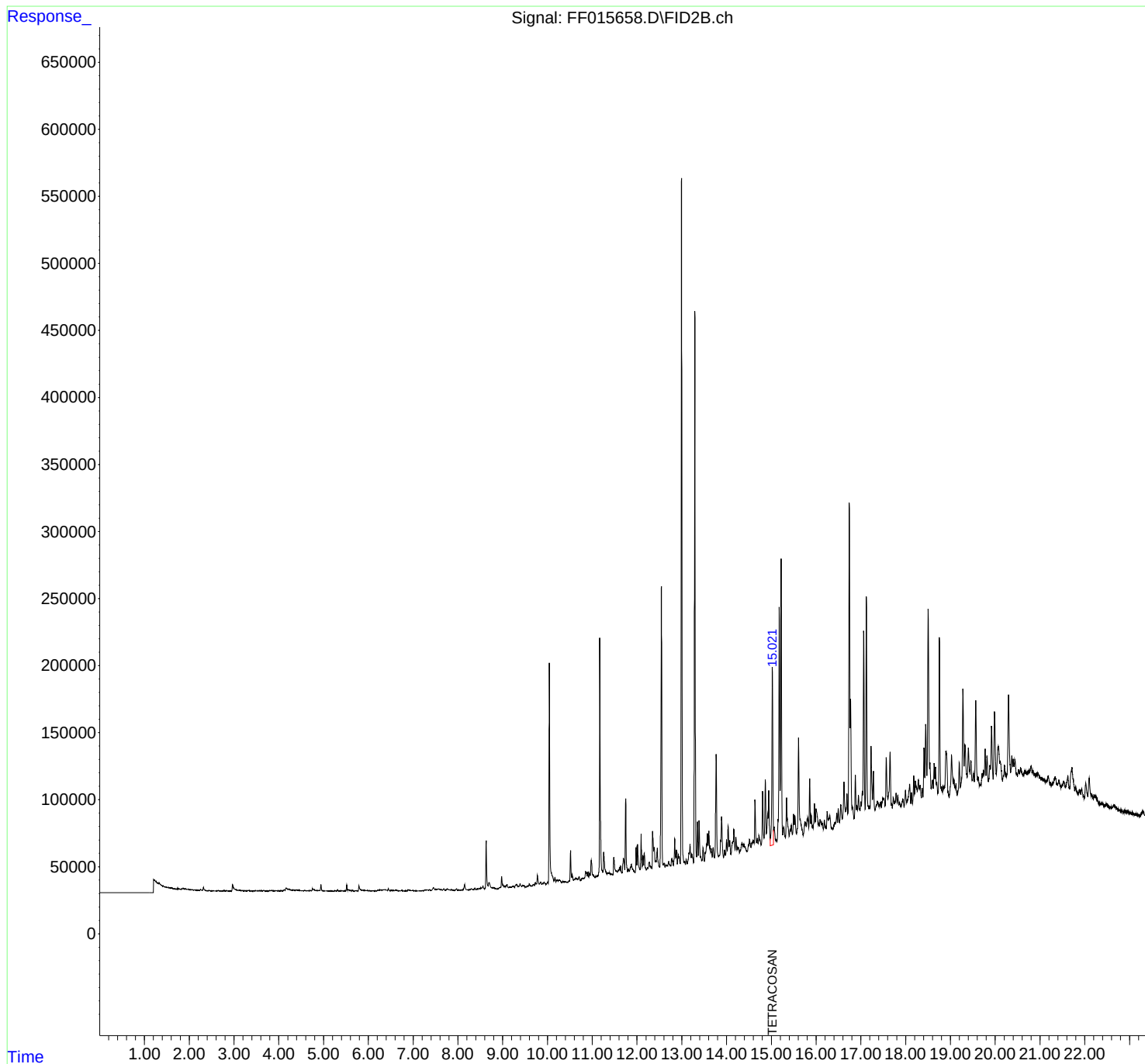
(m)=manual int.

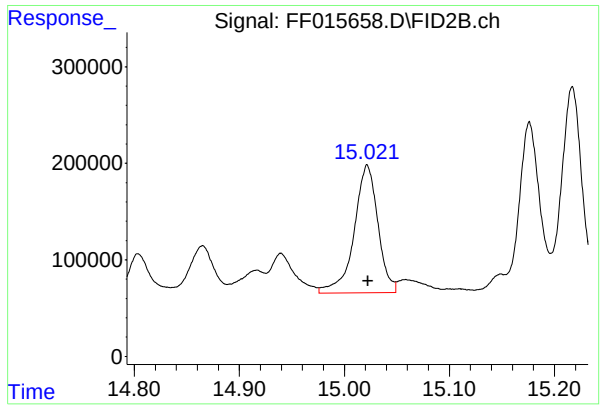
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015658.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 12:58
Operator : YP\AJ
Sample : Q1542-01
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Mar 13 02:29:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.022 min

Delta R.T.: 0.000 min

Response: 2083654

Conc: 17.48 ug/ml

Instrument :

FID_F

ClientSampleId :

WASTE

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
 Data File : FF015658.D
 Signal(s) : FID2B.ch
 Acq On : 12 Mar 2025 12:58
 Sample : Q1542-01
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.918	1.900	1.967	BV	309	4006	0.07%	0.002%
2	1.983	1.967	2.022	VV	283	3697	0.06%	0.002%
3	2.045	2.022	2.053	PV	224	2178	0.04%	0.001%
4	2.059	2.053	2.103	VV	205	2825	0.05%	0.002%
5	2.113	2.103	2.144	VV	215	3430	0.06%	0.002%
6	2.149	2.144	2.156	PV	173	821	0.01%	0.000%
7	2.165	2.156	2.170	VV	165	1070	0.02%	0.001%
8	2.175	2.170	2.194	VV	139	1426	0.02%	0.001%
9	2.197	2.194	2.214	VV	115	640	0.01%	0.000%
10	2.219	2.214	2.225	VV	81	370	0.01%	0.000%
11	2.251	2.225	2.295	VV	684	14998	0.25%	0.009%
12	2.317	2.295	2.393	VV	2564	42728	0.72%	0.024%
13	2.397	2.393	2.406	PV	177	518	0.01%	0.000%
14	2.447	2.406	2.506	VV	288	8585	0.14%	0.005%
15	2.511	2.506	2.530	VV	154	1443	0.02%	0.001%
16	2.542	2.530	2.570	VV	136	1845	0.03%	0.001%
17	2.573	2.570	2.577	VV	89	273	0.00%	0.000%
18	2.582	2.577	2.588	PV	101	507	0.01%	0.000%
19	2.593	2.588	2.608	VV	128	788	0.01%	0.000%
20	2.613	2.608	2.619	PV	94	366	0.01%	0.000%
21	2.643	2.619	2.647	VV	454	4761	0.08%	0.003%
22	2.651	2.647	2.714	VV	393	7109	0.12%	0.004%
23	2.774	2.714	2.800	VV	292	7820	0.13%	0.004%
24	2.816	2.800	2.829	VV	259	3326	0.06%	0.002%
25	2.835	2.829	2.866	VV	163	2715	0.05%	0.002%
26	2.870	2.866	2.922	VV	97	682	0.01%	0.000%
27	2.928	2.922	2.937	PV	91	428	0.01%	0.000%
28	2.967	2.937	3.035	VV	4900	120900	2.02%	0.069%
29	3.040	3.035	3.084	VV	1095	24379	0.41%	0.014%
30	3.095	3.084	3.100	VV	683	6425	0.11%	0.004%
31	3.104	3.100	3.113	VV	723	4763	0.08%	0.003%
32	3.115	3.113	3.165	VV	641	14767	0.25%	0.008%
33	3.171	3.165	3.178	VV	430	2982	0.05%	0.002%
34	3.189	3.178	3.224	VV	401	8478	0.14%	0.005%
35	3.228	3.224	3.242	VV	293	2819	0.05%	0.002%
36	3.251	3.242	3.269	VV	321	4405	0.07%	0.003%

					rt	er		
37	3.271	3.269	3.279	VV	271	1555	0.03%	0.001%
38	3.289	3.279	3.303	VV	265	3419	0.06%	0.002%
39	3.313	3.303	3.322	VV	369	3735	0.06%	0.002%
40	3.325	3.322	3.355	VV	428	5313	0.09%	0.003%
41	3.359	3.355	3.390	VV	215	3398	0.06%	0.002%
42	3.398	3.390	3.428	VV	160	3247	0.05%	0.002%
43	3.446	3.428	3.465	VV	356	6417	0.11%	0.004%
44	3.468	3.465	3.479	VV	273	1740	0.03%	0.001%
45	3.486	3.479	3.505	VV	247	2951	0.05%	0.002%
46	3.521	3.505	3.531	VV	237	2822	0.05%	0.002%
47	3.535	3.531	3.543	VV	214	1264	0.02%	0.001%
48	3.547	3.543	3.560	VV	262	1976	0.03%	0.001%
49	3.565	3.560	3.575	VV	243	1702	0.03%	0.001%
50	3.601	3.575	3.620	VV	464	8904	0.15%	0.005%
51	3.625	3.620	3.643	VV	311	3027	0.05%	0.002%
52	3.665	3.643	3.702	VV	730	11073	0.19%	0.006%
53	3.707	3.702	3.716	VV	143	709	0.01%	0.000%
54	3.725	3.716	3.741	VV	115	769	0.01%	0.000%
55	3.743	3.741	3.762	VV	113	847	0.01%	0.000%
56	3.770	3.762	3.775	VV	144	799	0.01%	0.000%
57	3.819	3.775	3.833	VV	534	12012	0.20%	0.007%
58	3.843	3.833	3.847	VV	485	3295	0.06%	0.002%
59	3.851	3.847	3.895	VV	451	8889	0.15%	0.005%
60	3.898	3.895	3.919	VV	314	3970	0.07%	0.002%
61	3.939	3.919	3.944	VV	431	4981	0.08%	0.003%
62	3.950	3.944	3.977	VV	405	6379	0.11%	0.004%
63	3.981	3.977	3.989	VV	220	1570	0.03%	0.001%
64	3.995	3.989	4.005	VV	249	2225	0.04%	0.001%
65	4.015	4.005	4.061	VV	340	7846	0.13%	0.004%
66	4.070	4.061	4.080	VV	272	2745	0.05%	0.002%
67	4.121	4.080	4.142	VV	1119	20820	0.35%	0.012%
68	4.161	4.142	4.201	VV	2297	61200	1.02%	0.035%
69	4.219	4.201	4.307	VV	1544	71606	1.20%	0.041%
70	4.313	4.307	4.319	VV	855	5712	0.10%	0.003%
71	4.323	4.319	4.358	VV	855	17019	0.28%	0.010%
72	4.361	4.358	4.368	VV	609	3641	0.06%	0.002%
73	4.389	4.368	4.424	VV	835	22855	0.38%	0.013%
74	4.429	4.424	4.449	VV	625	8568	0.14%	0.005%
75	4.454	4.449	4.490	VV	536	10818	0.18%	0.006%
76	4.497	4.490	4.502	VV	397	2577	0.04%	0.001%
77	4.515	4.502	4.524	VV	435	4791	0.08%	0.003%
78	4.527	4.524	4.541	VV	428	3832	0.06%	0.002%
79	4.545	4.541	4.558	VV	353	3172	0.05%	0.002%
80	4.573	4.558	4.613	VV	648	14412	0.24%	0.008%
81	4.618	4.613	4.623	VV	339	1879	0.03%	0.001%
82	4.629	4.623	4.644	VV	398	4660	0.08%	0.003%
83	4.660	4.644	4.676	VV	419	6499	0.11%	0.004%
84	4.693	4.676	4.729	VV	474	10059	0.17%	0.006%
85	4.756	4.729	4.840	VV	1869	62219	1.04%	0.035%
86	4.849	4.840	4.886	VV	617	13773	0.23%	0.008%
87	4.895	4.886	4.919	VV	462	8387	0.14%	0.005%
88	4.943	4.919	4.970	VV	5000	59609	1.00%	0.034%
89	4.973	4.970	4.986	VV	361	2916	0.05%	0.002%

					rteres			
90	4.990	4.986	4.996	VV	319	1593	0.03%	0.001%
91	5.006	4.996	5.026	VV	348	4658	0.08%	0.003%
92	5.034	5.026	5.040	VV	241	1777	0.03%	0.001%
93	5.044	5.040	5.048	VV	248	951	0.02%	0.001%
94	5.066	5.048	5.070	VV	269	2553	0.04%	0.001%
95	5.075	5.070	5.120	VV	287	5838	0.10%	0.003%
96	5.155	5.120	5.181	VV	341	7770	0.13%	0.004%
97	5.186	5.181	5.222	VV	167	1947	0.03%	0.001%
98	5.262	5.222	5.293	PV	318	8371	0.14%	0.005%
99	5.312	5.293	5.336	VV	1071	13558	0.23%	0.008%
100	5.342	5.336	5.352	VV	186	1743	0.03%	0.001%
101	5.357	5.352	5.365	VV	204	1638	0.03%	0.001%
102	5.386	5.365	5.415	VV	422	7393	0.12%	0.004%
103	5.424	5.415	5.427	VV	206	1401	0.02%	0.001%
104	5.429	5.427	5.435	VV	232	922	0.02%	0.001%
105	5.464	5.435	5.472	VV	344	5309	0.09%	0.003%
106	5.477	5.472	5.495	VV	359	3400	0.06%	0.002%
107	5.519	5.495	5.537	VV	4819	54275	0.91%	0.031%
108	5.550	5.537	5.583	VV	1328	26876	0.45%	0.015%
109	5.587	5.583	5.622	VV	624	10547	0.18%	0.006%
110	5.643	5.622	5.691	VV	880	13689	0.23%	0.008%
111	5.714	5.691	5.731	VV	508	7559	0.13%	0.004%
112	5.737	5.731	5.750	VV	277	2769	0.05%	0.002%
113	5.753	5.750	5.773	VV	204	1906	0.03%	0.001%
114	5.792	5.773	5.861	VV	4076	84964	1.42%	0.048%
115	5.866	5.861	5.892	VV	797	13098	0.22%	0.007%
116	5.905	5.892	5.947	VV	682	17403	0.29%	0.010%
117	5.976	5.947	5.997	VV	669	14898	0.25%	0.008%
118	6.013	5.997	6.055	VV	534	12706	0.21%	0.007%
119	6.071	6.055	6.079	VV	363	4637	0.08%	0.003%
120	6.084	6.079	6.113	VV	310	5046	0.08%	0.003%
121	6.121	6.113	6.159	VV	252	4365	0.07%	0.002%
122	6.177	6.159	6.191	PV	354	4158	0.07%	0.002%
123	6.241	6.191	6.255	VV	889	27933	0.47%	0.016%
124	6.282	6.255	6.306	VV	1080	26440	0.44%	0.015%
125	6.349	6.306	6.372	VV	1195	39147	0.66%	0.022%
126	6.377	6.372	6.426	VV	1008	27135	0.45%	0.015%
127	6.445	6.426	6.492	VV	1541	32604	0.55%	0.019%
128	6.509	6.492	6.549	VV	706	18672	0.31%	0.011%
129	6.558	6.549	6.585	VV	467	8366	0.14%	0.005%
130	6.606	6.585	6.672	VV	1057	32468	0.54%	0.018%
131	6.700	6.672	6.725	VV	351	7658	0.13%	0.004%
132	6.739	6.725	6.764	VV	520	8238	0.14%	0.005%
133	6.767	6.764	6.803	VV	283	3888	0.07%	0.002%
134	6.833	6.803	6.852	VV	280	5754	0.10%	0.003%
135	6.861	6.852	6.867	VV	157	1105	0.02%	0.001%
136	6.889	6.867	6.943	VV	965	25425	0.43%	0.014%
137	6.950	6.943	6.972	VV	364	5313	0.09%	0.003%
138	6.981	6.972	6.993	VV	373	3736	0.06%	0.002%
139	6.998	6.993	7.026	VV	330	4977	0.08%	0.003%
140	7.040	7.026	7.052	VV	423	4436	0.07%	0.003%
141	7.063	7.052	7.091	VV	258	4262	0.07%	0.002%

					rteres			
142	7.100	7.091	7.113	VV	109	927	0.02%	0.001%
143	7.120	7.113	7.127	PV	79	400	0.01%	0.000%
144	7.162	7.127	7.177	VV	160	2741	0.05%	0.002%
145	7.201	7.177	7.219	VV	268	4106	0.07%	0.002%
146	7.265	7.219	7.294	VV	873	22531	0.38%	0.013%
147	7.305	7.294	7.347	VV	893	19951	0.33%	0.011%
148	7.368	7.347	7.406	VV	1013	18474	0.31%	0.010%
149	7.454	7.406	7.503	VV	2422	73162	1.22%	0.042%
150	7.507	7.503	7.524	VV	950	10837	0.18%	0.006%
151	7.549	7.524	7.564	VV	1264	26139	0.44%	0.015%
152	7.575	7.564	7.617	VV	1308	31576	0.53%	0.018%
153	7.630	7.617	7.661	VV	836	16625	0.28%	0.009%
154	7.684	7.661	7.723	VV	1390	26032	0.44%	0.015%
155	7.729	7.723	7.737	VV	337	2655	0.04%	0.002%
156	7.751	7.737	7.756	VV	1064	9453	0.16%	0.005%
157	7.768	7.756	7.825	VV	1088	30268	0.51%	0.017%
158	7.829	7.825	7.838	VV	425	3002	0.05%	0.002%
159	7.859	7.838	7.880	VV	546	9789	0.16%	0.006%
160	7.893	7.880	7.912	VV	280	3199	0.05%	0.002%
161	7.919	7.912	7.932	VV	163	1279	0.02%	0.001%
162	7.967	7.932	8.009	VV	1280	20349	0.34%	0.012%
163	8.016	8.009	8.048	VV	256	3351	0.06%	0.002%
164	8.061	8.048	8.075	VV	179	1483	0.02%	0.001%
165	8.151	8.075	8.234	VV	4174	91311	1.53%	0.052%
166	8.256	8.234	8.274	PV	451	5920	0.10%	0.003%
167	8.295	8.274	8.312	VV	870	13200	0.22%	0.008%
168	8.322	8.312	8.339	VV	671	7365	0.12%	0.004%
169	8.380	8.339	8.402	VV	1378	21639	0.36%	0.012%
170	8.430	8.402	8.443	VV	629	11616	0.19%	0.007%
171	8.447	8.443	8.457	VV	522	4069	0.07%	0.002%
172	8.473	8.457	8.493	VV	1140	17326	0.29%	0.010%
173	8.511	8.493	8.523	VV	1392	18428	0.31%	0.010%
174	8.561	8.523	8.595	VV	2682	58454	0.98%	0.033%
175	8.632	8.595	8.676	VV	36291	462030	7.74%	0.263%
176	8.695	8.676	8.747	VV	5161	141233	2.36%	0.080%
177	8.750	8.747	8.767	VV	1399	13611	0.23%	0.008%
178	8.787	8.767	8.801	VV	1223	21060	0.35%	0.012%
179	8.811	8.801	8.875	VV	1034	23721	0.40%	0.013%
180	8.895	8.875	8.902	PV	337	2782	0.05%	0.002%
181	8.928	8.902	8.943	VV	1100	17508	0.29%	0.010%
182	8.979	8.943	9.004	VV	9274	135692	2.27%	0.077%
183	9.016	9.004	9.034	VV	2486	36236	0.61%	0.021%
184	9.055	9.034	9.067	VV	2128	33125	0.55%	0.019%
185	9.099	9.067	9.131	VV	3124	67927	1.14%	0.039%
186	9.155	9.131	9.171	VV	1018	17851	0.30%	0.010%
187	9.182	9.171	9.191	VV	755	8002	0.13%	0.005%
188	9.230	9.191	9.269	VV	1348	43816	0.73%	0.025%
189	9.312	9.269	9.346	VV	2630	79766	1.34%	0.045%
190	9.360	9.346	9.366	VV	961	10311	0.17%	0.006%
191	9.389	9.366	9.427	VV	2724	55104	0.92%	0.031%
192	9.448	9.427	9.463	VV	1237	22622	0.38%	0.013%
193	9.477	9.463	9.502	VV	1238	18448	0.31%	0.010%
194	9.518	9.502	9.532	PV	246	2921	0.05%	0.002%

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195	9.555	9.532	9.575	VV	891	13964	0.23%	0.008%
196	9.597	9.575	9.615	VV	2098	27374	0.46%	0.016%
197	9.622	9.615	9.635	VV	620	5974	0.10%	0.003%
198	9.640	9.635	9.652	VV	274	1980	0.03%	0.001%
199	9.693	9.652	9.713	VV	1387	30095	0.50%	0.017%
200	9.729	9.713	9.749	VV	2570	35011	0.59%	0.020%
201	9.778	9.749	9.819	VV	7691	141590	2.37%	0.080%
202	9.851	9.819	9.876	VV	2584	55879	0.94%	0.032%
203	9.896	9.876	9.908	VV	1694	22082	0.37%	0.013%
204	9.927	9.908	9.969	VV	2349	48871	0.82%	0.028%
205	10.008	9.969	10.021	VV	1924	35933	0.60%	0.020%
206	10.043	10.021	10.152	VV	165554	2206026	36.94%	1.254%
207	10.168	10.152	10.191	VV	4732	74055	1.24%	0.042%
208	10.214	10.191	10.239	VV	2897	66746	1.12%	0.038%
209	10.267	10.239	10.324	VV	2715	91029	1.52%	0.052%
210	10.347	10.324	10.391	VV	1258	36936	0.62%	0.021%
211	10.402	10.391	10.429	VV	738	12579	0.21%	0.007%
212	10.440	10.429	10.461	VV	510	6119	0.10%	0.003%
213	10.482	10.461	10.493	PV	1047	12922	0.22%	0.007%
214	10.518	10.493	10.540	VV	23606	282572	4.73%	0.161%
215	10.554	10.540	10.583	VV	5765	88441	1.48%	0.050%
216	10.647	10.583	10.662	VV	2270	83182	1.39%	0.047%
217	10.671	10.662	10.684	VV	1773	21142	0.35%	0.012%
218	10.706	10.684	10.740	VV	3072	54806	0.92%	0.031%
219	10.775	10.740	10.790	VV	1912	32018	0.54%	0.018%
220	10.802	10.790	10.817	VV	1722	23384	0.39%	0.013%
221	10.859	10.817	10.888	VV	5858	155010	2.60%	0.088%
222	10.905	10.888	10.923	VV	5600	80706	1.35%	0.046%
223	10.941	10.923	10.956	VV	4681	67239	1.13%	0.038%
224	10.980	10.956	11.065	VV	14171	320234	5.36%	0.182%
225	11.081	11.065	11.094	VV	1718	20203	0.34%	0.011%
226	11.169	11.094	11.239	VV	178742	2437977	40.82%	1.385%
227	11.258	11.239	11.335	VV	18872	419147	7.02%	0.238%
228	11.356	11.335	11.374	VV	3073	63222	1.06%	0.036%
229	11.389	11.374	11.405	VV	2626	40686	0.68%	0.023%
230	11.415	11.405	11.429	VV	1686	20905	0.35%	0.012%
231	11.438	11.429	11.454	VV	1518	19157	0.32%	0.011%
232	11.483	11.454	11.534	VV	13866	281583	4.71%	0.160%
233	11.541	11.534	11.555	VV	3337	36736	0.62%	0.021%
234	11.583	11.555	11.595	VV	3945	76607	1.28%	0.044%
235	11.610	11.595	11.622	VV	5585	72316	1.21%	0.041%
236	11.635	11.622	11.667	VV	6591	94419	1.58%	0.054%
237	11.699	11.667	11.727	VV	11981	268314	4.49%	0.152%
238	11.748	11.727	11.791	VV	56278	699794	11.72%	0.398%
239	11.809	11.791	11.831	VV	3493	58923	0.99%	0.033%
240	11.856	11.831	11.861	VV	4912	61162	1.02%	0.035%
241	11.876	11.861	11.956	VV	6791	166238	2.78%	0.094%
242	11.980	11.956	11.996	PV	18537	210666	3.53%	0.120%
243	12.013	11.996	12.066	VV	20790	363782	6.09%	0.207%
244	12.091	12.066	12.115	VV	28178	365913	6.13%	0.208%
245	12.131	12.115	12.147	VV	11816	155468	2.60%	0.088%
246	12.163	12.147	12.213	VV	13610	213128	3.57%	0.121%

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247	12.230	12.213	12.242	VV	2532	32083	0.54%	0.018%
248	12.274	12.242	12.294	VV	6188	132396	2.22%	0.075%
249	12.299	12.294	12.331	VV	3349	54994	0.92%	0.031%
250	12.351	12.331	12.370	VV	28968	385669	6.46%	0.219%
251	12.383	12.370	12.407	VV	16576	277769	4.65%	0.158%
252	12.421	12.407	12.430	VV	6519	81458	1.36%	0.046%
253	12.452	12.430	12.506	VV	15802	322101	5.39%	0.183%
254	12.545	12.506	12.585	VV	210390	2840490	47.56%	1.614%
255	12.602	12.585	12.626	VV	3922	62104	1.04%	0.035%
256	12.641	12.626	12.658	VV	2524	33919	0.57%	0.019%
257	12.673	12.658	12.679	VV	1767	20596	0.34%	0.012%
258	12.706	12.679	12.757	VV	4743	110666	1.85%	0.063%
259	12.775	12.757	12.811	VV	6249	118610	1.99%	0.067%
260	12.842	12.811	12.864	VV	20840	322432	5.40%	0.183%
261	12.879	12.864	12.899	VV	12319	164406	2.75%	0.093%
262	12.920	12.899	12.932	VV	8787	117067	1.96%	0.067%
263	12.941	12.932	12.966	VV	6978	89826	1.50%	0.051%
264	12.994	12.966	13.051	VV	512677	5972547	100.00%	3.394%
265	13.064	13.051	13.081	VV	2812	35484	0.59%	0.020%
266	13.096	13.081	13.124	VV	4238	61760	1.03%	0.035%
267	13.160	13.124	13.168	VV	8789	127403	2.13%	0.072%
268	13.182	13.168	13.209	VV	15317	242864	4.07%	0.138%
269	13.224	13.209	13.263	VV	7487	156452	2.62%	0.089%
270	13.292	13.263	13.329	VV	412235	4854270	81.28%	2.758%
271	13.350	13.329	13.368	VV	31031	397714	6.66%	0.226%
272	13.385	13.368	13.451	VV	31660	502518	8.41%	0.286%
273	13.475	13.451	13.505	VV	11001	155671	2.61%	0.088%
274	13.572	13.505	13.588	VV	21099	541426	9.07%	0.308%
275	13.603	13.588	13.621	VV	22971	326357	5.46%	0.185%
276	13.630	13.621	13.646	VV	11448	145130	2.43%	0.082%
277	13.656	13.646	13.681	VV	9608	134238	2.25%	0.076%
278	13.700	13.681	13.732	VV	9710	164406	2.75%	0.093%
279	13.766	13.732	13.824	VV	79340	1261691	21.12%	0.717%
280	13.888	13.824	13.931	VV	32185	714074	11.96%	0.406%
281	13.954	13.931	13.977	VV	6777	113604	1.90%	0.065%
282	13.998	13.977	14.015	VV	14235	198846	3.33%	0.113%
283	14.035	14.015	14.056	VV	24261	360502	6.04%	0.205%
284	14.070	14.056	14.099	VV	13309	210366	3.52%	0.120%
285	14.163	14.099	14.187	VV	21201	592901	9.93%	0.337%
286	14.207	14.187	14.231	VV	15023	257531	4.31%	0.146%
287	14.243	14.231	14.252	VV	7305	82802	1.39%	0.047%
288	14.264	14.252	14.288	VV	7176	123204	2.06%	0.070%
289	14.303	14.288	14.311	VV	5241	57210	0.96%	0.033%
290	14.350	14.311	14.370	VV	9611	281590	4.71%	0.160%
291	14.388	14.370	14.451	VV	8865	309603	5.18%	0.176%
292	14.457	14.451	14.464	VV	3283	25516	0.43%	0.014%
293	14.511	14.464	14.547	VV	11997	388290	6.50%	0.221%
294	14.563	14.547	14.571	VV	8838	106497	1.78%	0.061%
295	14.600	14.571	14.613	VV	10841	248284	4.16%	0.141%
296	14.634	14.613	14.666	VV	40838	651227	10.90%	0.370%
297	14.685	14.666	14.704	VV	11935	223257	3.74%	0.127%
298	14.722	14.704	14.742	VV	13910	260195	4.36%	0.148%
299	14.745	14.742	14.770	VV	10321	139838	2.34%	0.079%

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300	14.804	14.770	14.835	VV	46363	800793	13.41%	0.455%
301	14.865	14.835	14.889	VV	54623	966945	16.19%	0.549%
302	14.917	14.889	14.925	VV	29102	484229	8.11%	0.275%
303	14.940	14.925	14.976	VV	46294	808001	13.53%	0.459%
304	15.022	14.976	15.049	VV	137012	2303505	38.57%	1.309%
305	15.058	15.049	15.094	VV	18361	381698	6.39%	0.217%
306	15.099	15.094	15.104	VV	8404	51507	0.86%	0.029%
307	15.109	15.104	15.123	VV	8542	91529	1.53%	0.052%
308	15.176	15.123	15.197	VV	181059	2754434	46.12%	1.565%
309	15.217	15.197	15.256	VV	217749	3108736	52.05%	1.767%
310	15.277	15.256	15.313	VV	17275	455358	7.62%	0.259%
311	15.338	15.313	15.397	VV	38824	1012034	16.94%	0.575%
312	15.420	15.397	15.429	VV	15046	256419	4.29%	0.146%
313	15.444	15.429	15.470	VV	17902	348587	5.84%	0.198%
314	15.495	15.470	15.512	VV	25636	471439	7.89%	0.268%
315	15.526	15.512	15.560	VV	24444	506653	8.48%	0.288%
316	15.606	15.560	15.713	VV	82054	2278582	38.15%	1.295%
317	15.748	15.713	15.758	VV	18648	389955	6.53%	0.222%
318	15.763	15.758	15.782	VV	18362	252076	4.22%	0.143%
319	15.800	15.782	15.805	VV	20494	254989	4.27%	0.145%
320	15.814	15.805	15.834	VV	21738	324915	5.44%	0.185%
321	15.855	15.834	15.877	VV	50701	782666	13.10%	0.445%
322	15.891	15.877	15.931	VV	23026	554361	9.28%	0.315%
323	15.962	15.931	15.981	VV	31463	642745	10.76%	0.365%
324	15.997	15.981	16.050	VV	27091	897491	15.03%	0.510%
325	16.058	16.050	16.071	VV	16067	185610	3.11%	0.105%
326	16.088	16.071	16.117	VV	18727	468068	7.84%	0.266%
327	16.130	16.117	16.134	VV	15840	152054	2.55%	0.086%
328	16.138	16.134	16.161	VV	15917	218573	3.66%	0.124%
329	16.182	16.161	16.227	VV	18041	544733	9.12%	0.310%
330	16.246	16.227	16.267	VV	23719	460514	7.71%	0.262%
331	16.307	16.267	16.351	VV	20756	810715	13.57%	0.461%
332	16.355	16.351	16.373	VV	11265	140460	2.35%	0.080%
333	16.396	16.373	16.401	VV	13037	193847	3.25%	0.110%
334	16.460	16.401	16.477	VV	21753	733308	12.28%	0.417%
335	16.492	16.477	16.525	VV	24815	535070	8.96%	0.304%
336	16.549	16.525	16.585	VV	26962	744272	12.46%	0.423%
337	16.622	16.585	16.657	VV	44127	1201921	20.12%	0.683%
338	16.689	16.657	16.708	VV	34855	799767	13.39%	0.454%
339	16.741	16.708	16.759	VV	251493	3863988	64.70%	2.196%
340	16.769	16.759	16.800	VV	104987	1536430	25.72%	0.873%
341	16.810	16.800	16.852	VV	24993	642063	10.75%	0.365%
342	16.875	16.852	16.899	VV	47908	877508	14.69%	0.499%
343	16.910	16.899	16.926	VV	25142	366633	6.14%	0.208%
344	16.945	16.926	16.981	VV	32696	840583	14.07%	0.478%
345	17.000	16.981	17.011	VV	27291	436846	7.31%	0.248%
346	17.032	17.011	17.039	VV	35217	525429	8.80%	0.299%
347	17.062	17.039	17.095	VV	154575	2466188	41.29%	1.401%
348	17.122	17.095	17.172	VV	179868	3031603	50.76%	1.723%
349	17.191	17.172	17.204	VV	23441	431778	7.23%	0.245%
350	17.226	17.204	17.259	VV	67507	1419602	23.77%	0.807%
351	17.278	17.259	17.317	VV	48831	1074076	17.98%	0.610%

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352	17.344	17.317	17.349	VV	23399	415210	6.95%	0.236%
353	17.368	17.349	17.401	VV	25871	759680	12.72%	0.432%
354	17.406	17.401	17.416	VV	22920	194376	3.25%	0.110%
355	17.433	17.416	17.453	VV	24747	510917	8.55%	0.290%
356	17.490	17.453	17.502	VV	27465	741520	12.42%	0.421%
357	17.514	17.502	17.539	VV	27082	564260	9.45%	0.321%
358	17.566	17.539	17.604	VV	57336	1405259	23.53%	0.799%
359	17.651	17.604	17.702	VV	61013	1973073	33.04%	1.121%
360	17.723	17.702	17.758	VV	26993	793952	13.29%	0.451%
361	17.785	17.758	17.811	VV	29751	810936	13.58%	0.461%
362	17.824	17.811	17.849	VV	27820	554450	9.28%	0.315%
363	17.858	17.849	17.862	VV	22089	170146	2.85%	0.097%
364	17.867	17.862	17.887	VV	22041	301700	5.05%	0.171%
365	17.895	17.887	17.900	VV	20251	161618	2.71%	0.092%
366	17.938	17.900	17.963	VV	24806	830528	13.91%	0.472%
367	17.994	17.963	18.025	VV	31047	895066	14.99%	0.509%
368	18.041	18.025	18.047	VV	24063	317771	5.32%	0.181%
369	18.090	18.047	18.114	VV	34851	1126114	18.85%	0.640%
370	18.131	18.114	18.151	VV	28518	538636	9.02%	0.306%
371	18.180	18.151	18.198	VV	40875	841328	14.09%	0.478%
372	18.217	18.198	18.259	VV	36579	1192381	19.96%	0.678%
373	18.284	18.259	18.312	VV	36904	1032824	17.29%	0.587%
374	18.323	18.312	18.350	VV	33025	668558	11.19%	0.380%
375	18.369	18.350	18.386	VV	30108	577691	9.67%	0.328%
376	18.410	18.386	18.427	VV	60456	1082922	18.13%	0.615%
377	18.447	18.427	18.472	VV	77611	1557810	26.08%	0.885%
378	18.502	18.472	18.533	VV	162648	3368371	56.40%	1.914%
379	18.542	18.533	18.573	VV	48715	936782	15.68%	0.532%
380	18.602	18.573	18.617	VV	35526	857363	14.36%	0.487%
381	18.636	18.617	18.651	VV	47746	814558	13.64%	0.463%
382	18.665	18.651	18.691	VV	44967	906881	15.18%	0.515%
383	18.695	18.691	18.724	VV	33196	566336	9.48%	0.322%
384	18.753	18.724	18.801	VV	141014	2684769	44.95%	1.526%
385	18.804	18.801	18.821	VV	29623	326137	5.46%	0.185%
386	18.838	18.821	18.857	VV	29812	616630	10.32%	0.350%
387	18.897	18.857	18.971	VV	55251	2475565	41.45%	1.407%
388	19.025	18.971	19.066	VV	52332	1967085	32.94%	1.118%
389	19.077	19.066	19.104	VV	33691	705195	11.81%	0.401%
390	19.124	19.104	19.146	VV	30040	662791	11.10%	0.377%
391	19.197	19.146	19.224	VV	45385	1408714	23.59%	0.801%
392	19.279	19.224	19.304	VV	100202	2525663	42.29%	1.435%
393	19.325	19.304	19.374	VV	58241	1892417	31.69%	1.075%
394	19.400	19.374	19.427	VV	55355	1420335	23.78%	0.807%
395	19.430	19.427	19.436	VV	38856	193632	3.24%	0.110%
396	19.455	19.436	19.482	VV	45355	1092012	18.28%	0.621%
397	19.487	19.482	19.492	VV	31244	185381	3.10%	0.105%
398	19.515	19.492	19.534	VV	35966	812295	13.60%	0.462%
399	19.565	19.534	19.610	VV	89815	2295609	38.44%	1.304%
400	19.623	19.610	19.644	VV	32388	619829	10.38%	0.352%
401	19.654	19.644	19.660	VV	26592	250606	4.20%	0.142%
402	19.708	19.660	19.722	VV	34915	1117193	18.71%	0.635%
403	19.738	19.722	19.751	VV	36869	593503	9.94%	0.337%
404	19.774	19.751	19.795	VV	52801	1094903	18.33%	0.622%

					rteres			
405	19.817	19.795	19.847	VV	47358	1178872	19.74%	0.670%
406	19.884	19.847	19.894	VV	39957	988833	16.56%	0.562%
407	19.917	19.894	19.954	VV	68714	1712446	28.67%	0.973%
408	19.985	19.954	20.026	VV	79515	2201014	36.85%	1.251%
409	20.069	20.026	20.098	VV	53367	1989541	33.31%	1.131%
410	20.103	20.098	20.105	VV	41624	185961	3.11%	0.106%
411	20.112	20.105	20.163	VV	42135	1215743	20.36%	0.691%
412	20.181	20.163	20.186	VV	31095	397052	6.65%	0.226%
413	20.205	20.186	20.225	VV	38775	796007	13.33%	0.452%
414	20.236	20.225	20.246	VV	32287	399560	6.69%	0.227%
415	20.250	20.246	20.255	VV	30442	174153	2.92%	0.099%
416	20.297	20.255	20.341	VV	90229	2724238	45.61%	1.548%
417	20.370	20.341	20.389	VV	44379	1095540	18.34%	0.623%
418	20.404	20.389	20.424	VV	41942	804071	13.46%	0.457%
419	20.439	20.424	20.470	VV	41094	1020079	17.08%	0.580%
420	20.479	20.470	20.496	VV	31391	474970	7.95%	0.270%
421	20.523	20.496	20.545	VV	33561	935827	15.67%	0.532%
422	20.566	20.545	20.586	VV	34841	795373	13.32%	0.452%
423	20.592	20.586	20.620	VV	31772	604388	10.12%	0.343%
424	20.653	20.620	20.671	VV	32196	933529	15.63%	0.530%
425	20.680	20.671	20.704	VV	31300	588288	9.85%	0.334%
426	20.710	20.704	20.714	VV	30512	183414	3.07%	0.104%
427	20.726	20.714	20.731	VV	30916	301042	5.04%	0.171%
428	20.749	20.731	20.754	VV	31451	432648	7.24%	0.246%
429	20.760	20.754	20.767	VV	31460	234170	3.92%	0.133%
430	20.797	20.767	20.829	VV	34517	1195876	20.02%	0.680%
431	20.836	20.829	20.841	VV	31080	214288	3.59%	0.122%
432	20.848	20.841	20.860	VV	30571	342847	5.74%	0.195%
433	20.868	20.860	20.897	VV	28694	631358	10.57%	0.359%
434	20.901	20.897	20.918	VV	28411	345267	5.78%	0.196%
435	20.938	20.918	20.948	VV	28563	500395	8.38%	0.284%
436	20.953	20.948	20.956	VV	28343	139256	2.33%	0.079%
437	20.962	20.956	20.992	VV	28815	574478	9.62%	0.326%
438	20.996	20.992	21.024	VV	25642	473256	7.92%	0.269%
439	21.041	21.024	21.067	VV	24759	615869	10.31%	0.350%
440	21.071	21.067	21.077	VV	24164	139625	2.34%	0.079%
441	21.084	21.077	21.107	VV	23522	404918	6.78%	0.230%
442	21.113	21.107	21.120	VV	22471	164150	2.75%	0.093%
443	21.133	21.120	21.140	VV	22494	265999	4.45%	0.151%
444	21.179	21.140	21.184	VV	25154	608333	10.19%	0.346%
445	21.188	21.184	21.218	VV	24709	445794	7.46%	0.253%
446	21.227	21.218	21.247	VV	20662	344551	5.77%	0.196%
447	21.252	21.247	21.262	VV	18791	156720	2.62%	0.089%
448	21.339	21.262	21.389	VV	24106	1565994	26.22%	0.890%
449	21.424	21.389	21.451	VV	21164	706072	11.82%	0.401%
450	21.453	21.451	21.469	VV	17227	175604	2.94%	0.100%
451	21.477	21.469	21.482	VV	16479	125936	2.11%	0.072%
452	21.496	21.482	21.509	VV	17831	271521	4.55%	0.154%
453	21.534	21.509	21.569	VV	19564	637414	10.67%	0.362%
454	21.621	21.569	21.654	VV	23750	931425	15.60%	0.529%
455	21.714	21.654	21.774	VV	29202	1477274	24.73%	0.839%
456	21.800	21.774	21.841	VV	14179	469772	7.87%	0.267%

						rteres		
457	21.845	21.841	21.855	VV	9540	77844	1.30%	0.044%
458	21.884	21.855	21.911	VV	12056	333565	5.58%	0.190%
459	21.931	21.911	21.989	VV	12290	395149	6.62%	0.225%
460	22.022	21.989	22.067	VV	15918	465728	7.80%	0.265%
461	22.098	22.067	22.154	VV	19530	570468	9.55%	0.324%
462	22.162	22.154	22.192	VV	7080	114877	1.92%	0.065%
463	22.206	22.192	22.231	VV	6336	115187	1.93%	0.065%
464	22.241	22.231	22.253	VV	5282	62508	1.05%	0.036%
465	22.258	22.253	22.301	VBA	4775	99158	1.66%	0.056%

Sum of corrected areas: 175976482

FF030325.M Thu Mar 13 02:57:33 2025



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: SCIA01
 ProjectID: 248 Union St., Lodi
 Lab Code: CHEM Case No.: Q1542 SAS No.: Q1542 SDG No.: Q1542

Calibration Sequence : FF030325		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	205033948	120608	FF015569.D
850	98410584	115777	FF015570.D
340	39379290	115821	FF015571.D
170	20344477	119673	FF015572.D
85	10098758	118809	FF015573.D
AVG RF : 118138		% RSD : 1.886	AVG RT : 15.0244

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: SCIA01
ProjectID: 248 Union St., Lodi
Lab Code: CHEM Case No.: Q1542 SAS No.: Q1542 SDG No.: Q1542
DataFile: FF015654.D Analyst Name: YP\AJ Analyst Date: 03-12-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	95334844	112159	118138	5.061

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
 Data File : FF015654.D
 Signal(s) : FID2B.ch
 Acq On : 12 Mar 2025 10:59
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Mar 13 02:27:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
 Quant Title :
 QLast Update : Mon Mar 03 14:28:15 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...	15.024	5900807	49.489 ug/ml
Target Compounds			
1) N-OCTANE	2.026	5715374	48.962 ug/ml
2) N-DECANE	4.566	5976396	52.127 ug/ml
3) N-DODECANE	6.734	6201720	52.012 ug/ml
4) N-TETRADECANE	8.561	6216310	52.751 ug/ml
5) N-HEXADECANE	10.169	6345383	52.542 ug/ml
6) N-OCTADECANE	11.612	6559114	51.346 ug/ml
7) N-EICOSANE	12.923	6545935	50.855 ug/ml
8) N-DOCOSANE	14.124	6436454	49.711 ug/ml
10) N-TETRACOSANE	15.229	6434671	49.005 ug/ml
11) N-HEXACOSANE	16.250	6312109	48.919 ug/ml
12) N-OCTACOSANE	17.201	6198768	48.415 ug/ml
13) N-TRIACONTANE	18.090	6080718	47.618 ug/ml
14) N-DOTRIACONTANE	18.922	5712651	45.778 ug/ml
15) N-TETRATRIACONTANE	19.707	4785709	41.780 ug/ml
16) N-HEXATRIACONTANE	20.447	3808150	37.850 ug/ml
17) N-OCTATRIACONTANE	21.183	3212978	34.837 ug/ml
18) N-TETRACONTANE	22.097	2792404	32.878 ug/ml

(f)=RT Delta > 1/2 Window

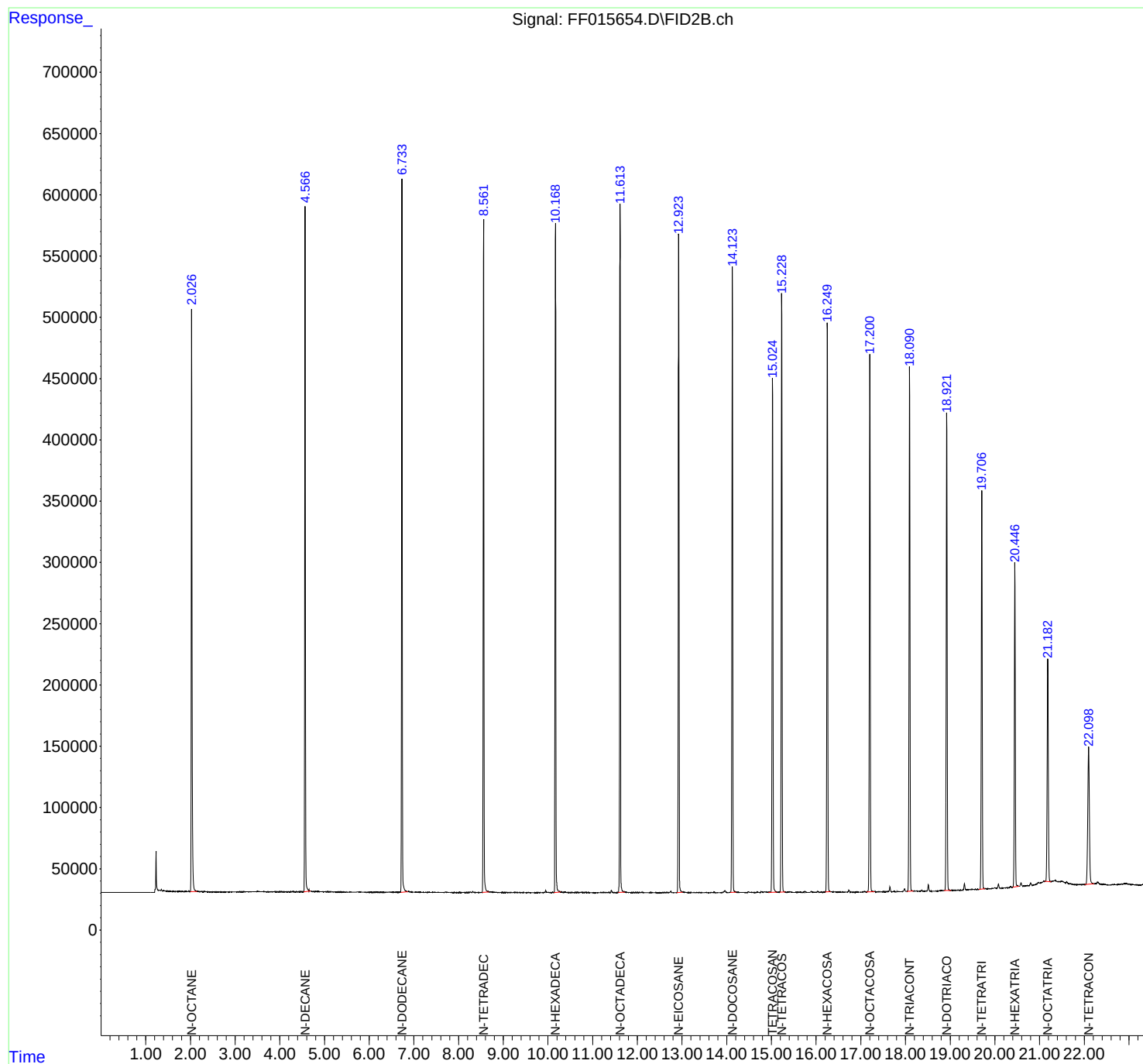
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015654.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 10:59
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 13 02:27:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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_F\Data\FF031225\
Data File : FF015654.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 10:59
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.026	1.997	2.154	BB	474370	5715374	87.14%	5.646%
2	4.566	4.532	4.684	BB	558890	5976396	91.12%	5.903%
3	6.734	6.702	6.864	BB	581816	6201720	94.55%	6.126%
4	8.561	8.529	8.681	BB	548878	6216310	94.77%	6.140%
5	10.169	10.132	10.289	BB	546425	6345383	96.74%	6.268%
6	11.612	11.572	11.721	BB	560785	6559114	100.00%	6.479%
7	12.923	12.881	13.012	BB	537821	6545935	99.80%	6.466%
8	14.124	14.081	14.214	BB	510165	6436454	98.13%	6.358%
9	15.024	14.936	15.127	BB	419243	5900807	89.96%	5.829%
10	15.229	15.187	15.307	BB	487824	6434671	98.10%	6.356%
11	16.250	16.202	16.326	BB	464639	6312109	96.23%	6.235%
12	17.201	17.132	17.304	BB	438201	6198768	94.51%	6.123%
13	18.090	18.031	18.174	BB	427622	6080718	92.71%	6.006%
14	18.922	18.857	19.011	BB	389303	5712651	87.09%	5.643%
15	19.707	19.641	19.779	BB	325568	4785709	72.96%	4.727%
16	20.447	20.401	20.537	BB	264788	3808150	58.06%	3.762%
17	21.183	21.109	21.261	BV	180905	3212978	48.98%	3.174%
18	22.097	22.009	22.219	BB	111865	2792404	42.57%	2.758%
Sum of corrected areas:						101235651		

FF030325.M Thu Mar 13 02:54:02 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: SCIA01
ProjectID: 248 Union St., Lodi
Lab Code: CHEM Case No.: Q1542 SAS No.: Q1542 SDG No.: Q1542
DataFile: FF015663.D Analyst Name: YP\AJ Analyst Date: 03-12-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	99007745	116480	118138	1.403

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
 Data File : FF015663.D
 Signal(s) : FID2B.ch
 Acq On : 12 Mar 2025 15:25
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Mar 13 02:31:01 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
 Quant Title :
 QLast Update : Mon Mar 03 14:28:15 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...	15.028	5940563	49.822 ug/ml
Target Compounds			
1) N-OCTANE	2.028	5891480	50.470 ug/ml
2) N-DECANE	4.568	6242315	54.446 ug/ml
3) N-DODECANE	6.736	6457827	54.159 ug/ml
4) N-TETRADECANE	8.565	6461682	54.833 ug/ml
5) N-HEXADECANE	10.172	6566041	54.369 ug/ml
6) N-OCTADECANE	11.618	6752061	52.857 ug/ml
7) N-EICOSANE	12.928	6723940	52.238 ug/ml
8) N-DOCOSANE	14.128	6566033	50.712 ug/ml
10) N-TETRACOSANE	15.233	6499981	49.503 ug/ml
11) N-HEXACOSANE	16.256	6362574	49.311 ug/ml
12) N-OCTACOSANE	17.207	6220637	48.586 ug/ml
13) N-TRIACONTANE	18.095	6171792	48.331 ug/ml
14) N-DOTRIACONTANE	18.929	5887196	47.177 ug/ml
15) N-TETRATRIACONTANE	19.713	4905105	42.822 ug/ml
16) N-HEXATRIACONTANE	20.453	3906873	38.831 ug/ml
17) N-OCTATRIACONTANE	21.192	3806222	41.269 ug/ml
18) N-TETRACONTANE	22.106	3585986	42.222 ug/ml

(f)=RT Delta > 1/2 Window

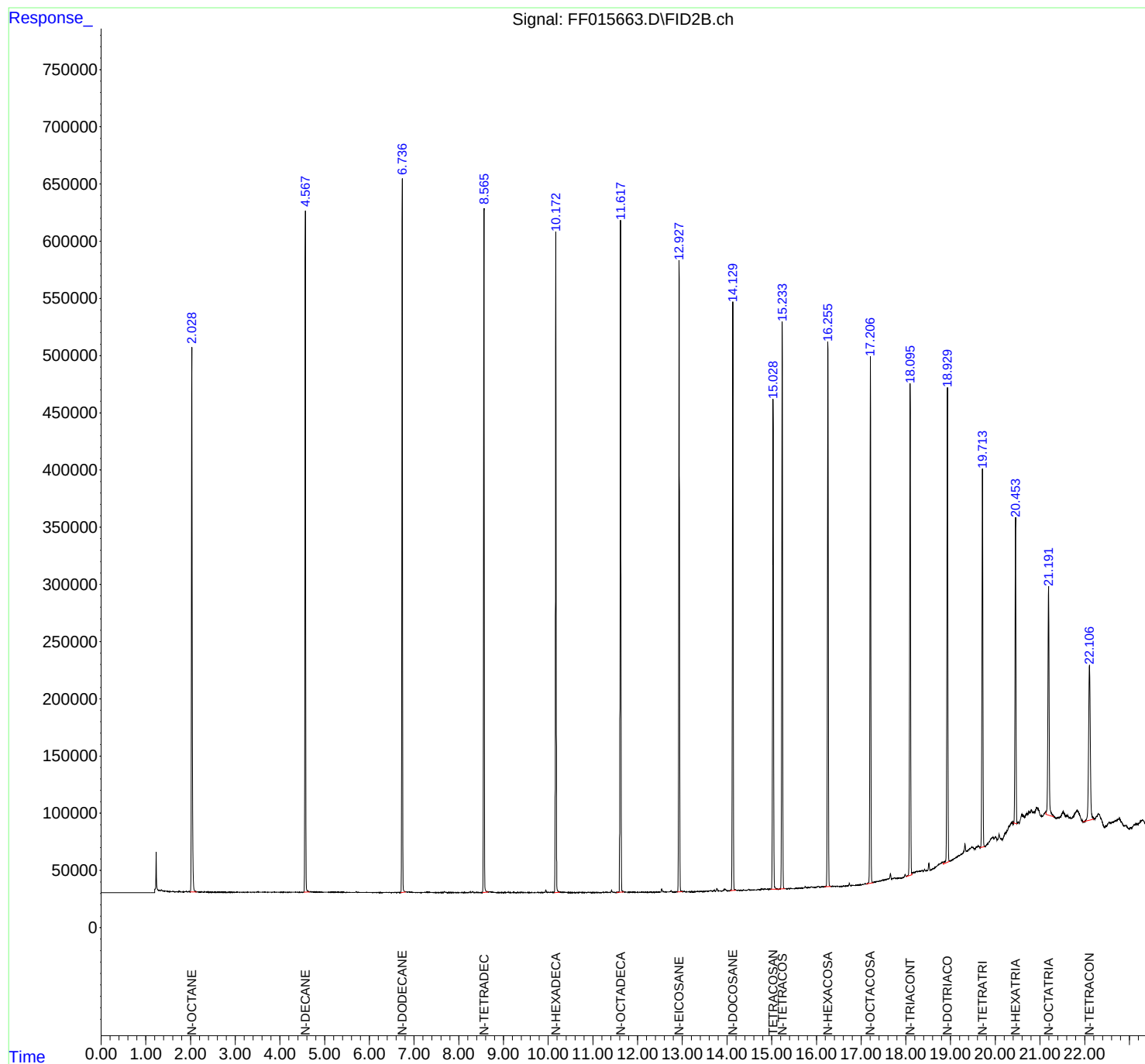
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015663.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 15:25
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Mar 13 02:31:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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_F\Data\FF031225\
Data File : FF015663.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 15:25
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.028	1.990	2.142	PB	474932	5891480	87.25%	5.614%
2	4.568	4.532	4.662	BB	593662	6242315	92.45%	5.948%
3	6.736	6.699	6.814	BB	624258	6457827	95.64%	6.153%
4	8.565	8.529	8.654	BB	600384	6461682	95.70%	6.157%
5	10.172	10.134	10.262	BB	578303	6566041	97.24%	6.256%
6	11.618	11.530	11.692	BB	586837	6752061	100.00%	6.434%
7	12.928	12.887	13.009	BB	551437	6723940	99.58%	6.407%
8	14.128	14.064	14.202	BB	514246	6566033	97.24%	6.256%
9	15.028	14.972	15.102	BV	427716	5940563	87.98%	5.660%
10	15.233	15.102	15.300	PB	495969	6499981	96.27%	6.194%
11	16.256	16.177	16.327	BB	475688	6362574	94.23%	6.063%
12	17.207	17.112	17.267	BV	459925	6220637	92.13%	5.927%
13	18.095	18.009	18.134	VV	429611	6171792	91.41%	5.881%
14	18.929	18.839	18.982	VV	413664	5887196	87.19%	5.610%
15	19.713	19.660	19.767	BV	330546	4905105	72.65%	4.674%
16	20.453	20.400	20.486	BV	267690	3906873	57.86%	3.723%
17	21.192	21.130	21.315	VV	199166	3806222	56.37%	3.627%
18	22.106	21.960	22.209	BV	135655	3585986	53.11%	3.417%
Sum of corrected areas:						104948306		

FF030325.M Thu Mar 13 02:56:32 2025

Analytical Sequence

Client: Sciacca General Contractors, LLC

SDG No.: Q1542

Project: 248 Union St., Lodi

Instrument ID: FID_F

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 15.0244					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	12 Mar 2025 10:29	FF015653.D	15.022	
50 PPM TRPH STD	50 PPM TRPH STD	12 Mar 2025 10:59	FF015654.D	15.024	
PB167095BL	PB167095BL	12 Mar 2025 11:59	FF015656.D	15.023	
PB167095BS	PB167095BS	12 Mar 2025 12:29	FF015657.D	15.022	
WASTE	Q1542-01	12 Mar 2025 12:58	FF015658.D	15.022	
WASTEMS	Q1542-01MS	12 Mar 2025 13:57	FF015660.D	15.025	
WASTEMSD	Q1542-01MSD	12 Mar 2025 14:26	FF015661.D	15.026	
PIBLK02	LBLK02	12 Mar 2025 14:55	FF015662.D	15.026	
50 PPM TRPH STD	50 PPM TRPH STD	12 Mar 2025 15:25	FF015663.D	15.028	



QC SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	248 Union St., Lodi		Date Received:		
Client Sample ID:	PB167095BL		SDG No.:	Q1542	
Lab Sample ID:	PB167095BL		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	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
FF015656.D	1	03/12/25 08:40	03/12/25 11:59	PB167095

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
PHC	Petroleum Hydrocarbons	318	U	318	1420	2830	ug/kg
SURROGATES							
16416-32-3	TETRACOSANE-d50	15.0		37 - 130		75%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015656.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 11:59
Operator : YP\AJ
Sample : PB167095BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167095BL

Integration File: autoint1.e
Quant Time: Mar 13 02:28:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.023	1788083	14.996 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

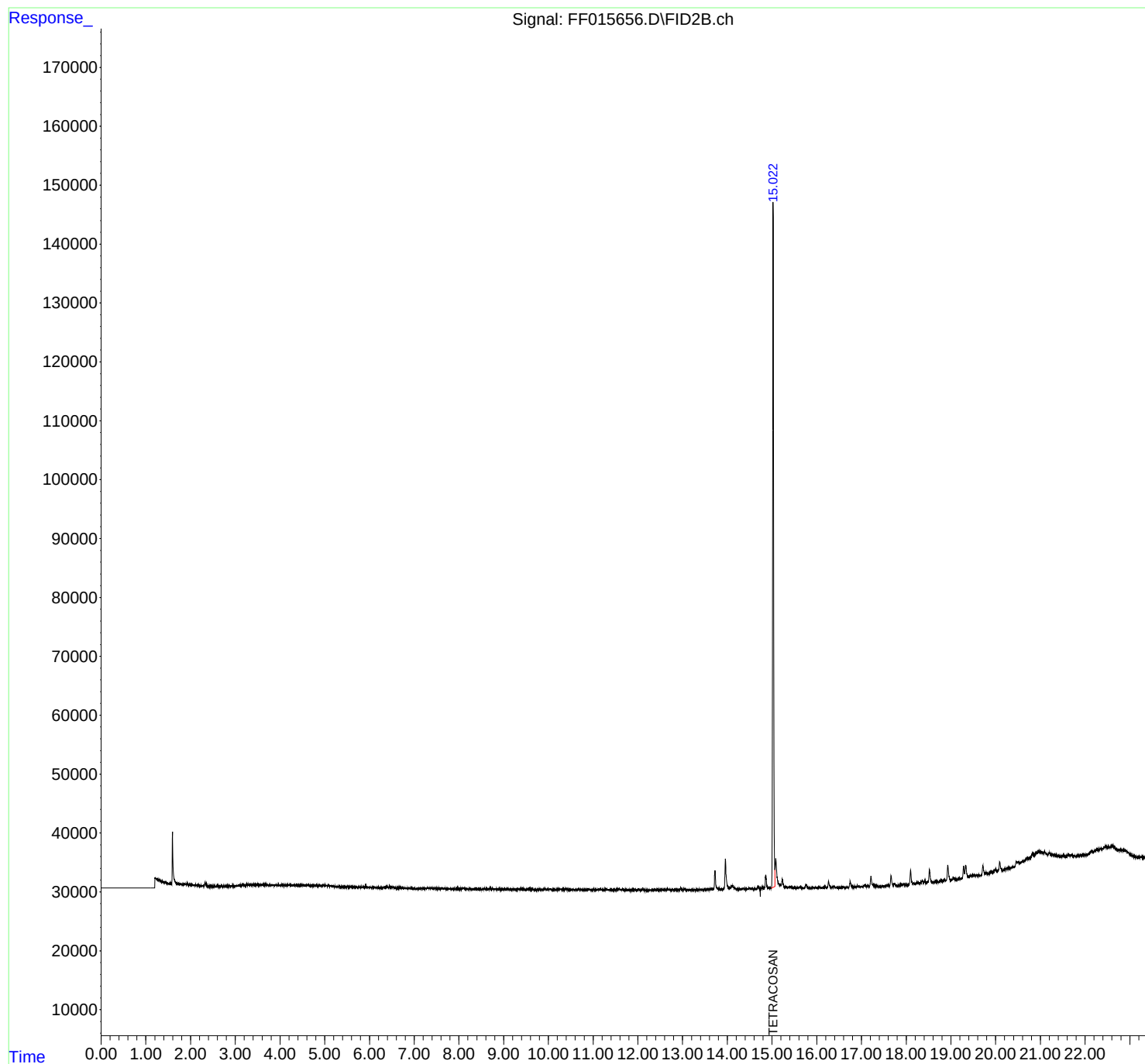
(m)=manual int.

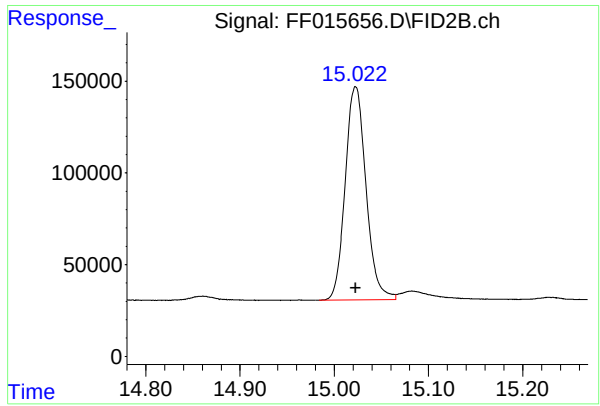
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015656.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 11:59
Operator : YP\AJ
Sample : PB167095BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167095BL

Integration File: autoint1.e
Quant Time: Mar 13 02:28:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.023 min
Delta R.T.: 0.000 min
Response: 1788083
Conc: 15.00 ug/ml

Instrument :
FID_F
ClientSampleId :
PB167095BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015656.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 11:59
Sample : PB167095BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.023	14.984	15.065	BV	116378	1788083	100.00%	100.000%
Sum of corrected areas:						1788083		

FF030325.M Thu Mar 13 02:54:45 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	03/12/25	
Project:	248 Union St., Lodi		Date Received:	03/12/25	
Client Sample ID:	PIBLK-FF015653.D		SDG No.:	Q1542	
Lab Sample ID:	I.BLK-FF015653.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015653.D	1		03/12/25	FF031225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
PHC	Petroleum Hydrocarbons	9.00	U	9.00	42.0	85.0	ug/L
SURROGATES							
16416-32-3	TETRACOSANE-d50	22.6		29 - 130		113%	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_F\Data\FF031225\
Data File : FF015653.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 10:29
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 13 02:27:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.022	2697180	22.621 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

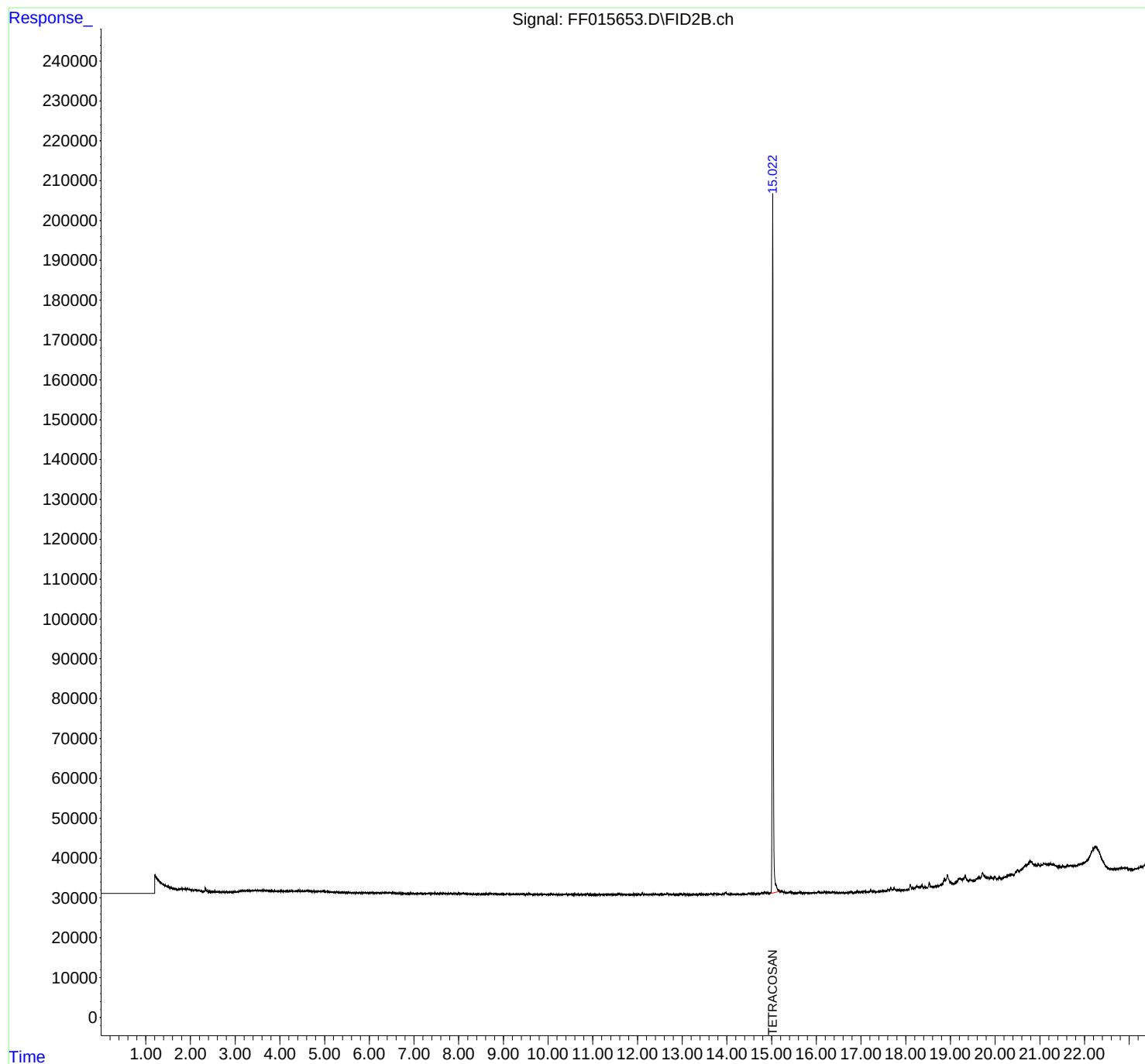
(m)=manual int.

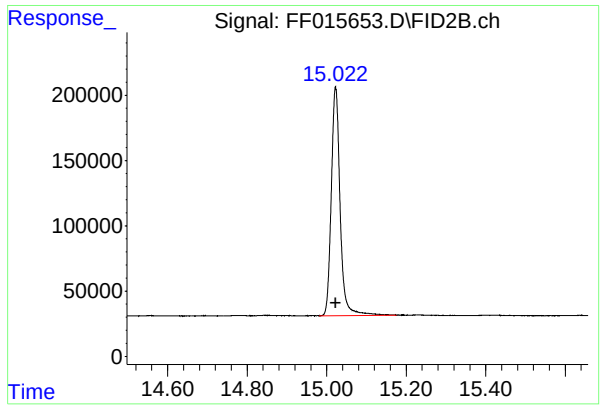
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015653.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 10:29
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 13 02:27:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.022 min
Delta R.T.: 0.000 min
Response: 2697180
Conc: 22.62 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015653.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 10:29
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.022	14.981	15.174	BB	175233	2697180	100.00%	100.000%
Sum of corrected areas:						2697180		

FF030325.M Thu Mar 13 02:53:23 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	03/12/25	
Project:	248 Union St., Lodi		Date Received:	03/12/25	
Client Sample ID:	PIBLK-FF015662.D		SDG No.:	Q1542	
Lab Sample ID:	I.BLK-FF015662.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015662.D	1		03/12/25	FF031225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
PHC	Petroleum Hydrocarbons	9.00	U	9.00	42.0	85.0	ug/L
SURROGATES							
16416-32-3	TETRACOSANE-d50	18.5		29 - 130		92%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015662.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 14:55
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 13 02:30:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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...	15.026	2202366	18.471 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

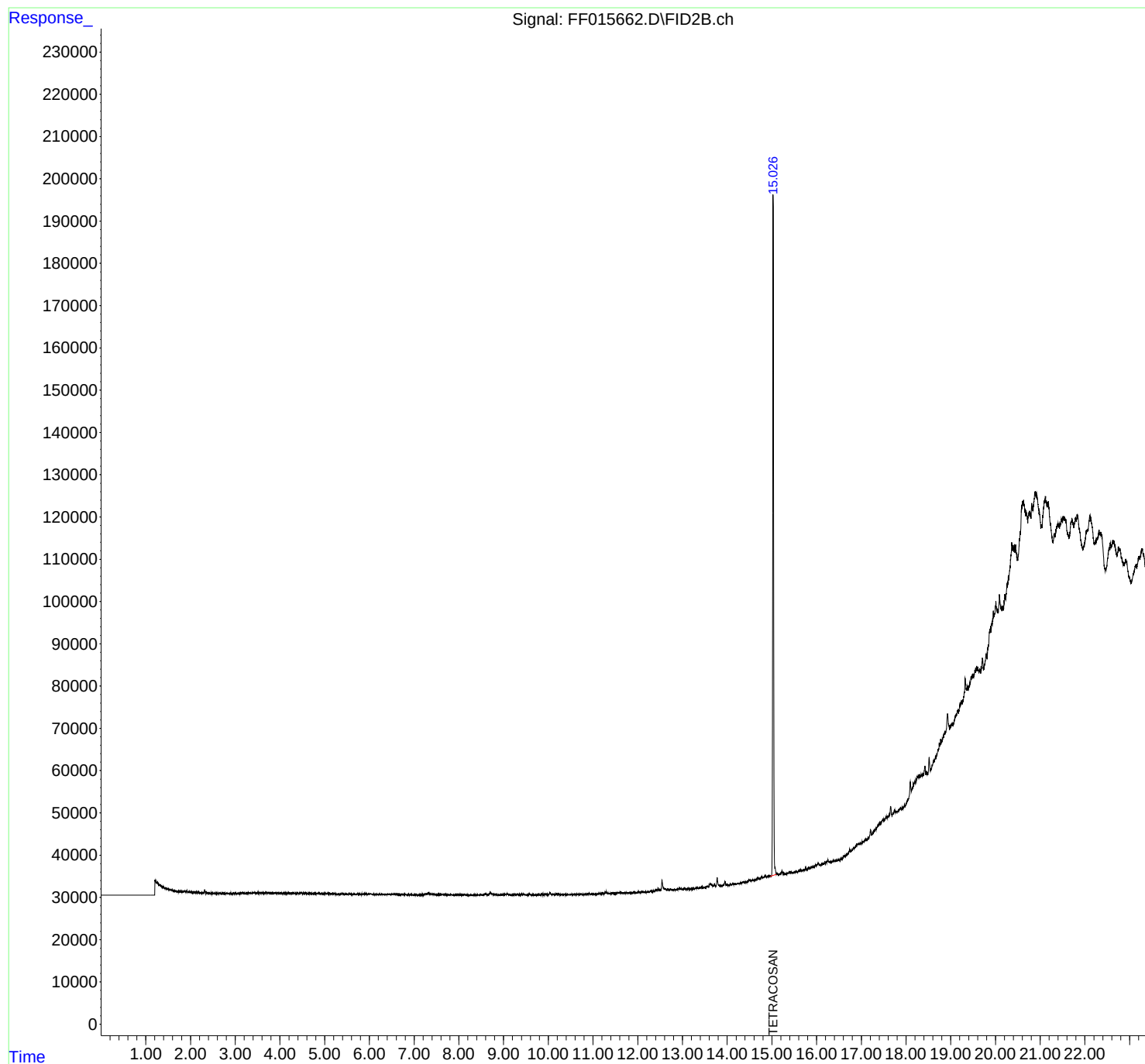
(m)=manual int.

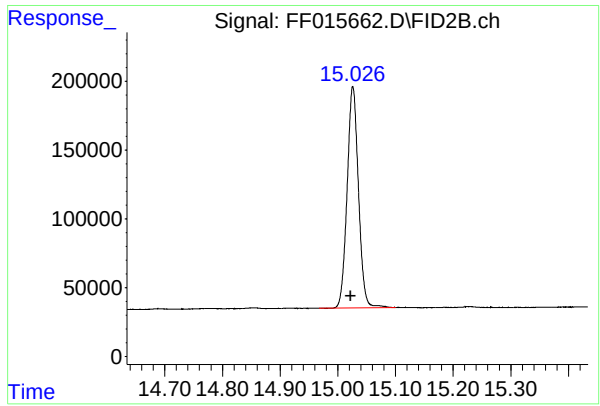
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015662.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 14:55
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 13 02:30:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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.: 15.026 min
Delta R.T.: 0.004 min
Response: 2202366
Conc: 18.47 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015662.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 14:55
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.026	14.967	15.101	BB	161186	2202366	100.00%	100.000%
Sum of corrected areas:						2202366		

FF030325.M Thu Mar 13 02:55:44 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	248 Union St., Lodi		Date Received:		
Client Sample ID:	PB167095BS		SDG No.:	Q1542	
Lab Sample ID:	PB167095BS		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	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
FF015657.D	1	03/12/25 08:40	03/12/25 12:29	PB167095

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
PHC	Petroleum Hydrocarbons	8100		318	1420	2830	ug/kg
SURROGATES							
16416-32-3	TETRACOSANE-d50	16.4		37 - 130		82%	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_F\Data\FF031225\
 Data File : FF015657.D
 Signal(s) : FID2B.ch
 Acq On : 12 Mar 2025 12:29
 Operator : YP\AJ
 Sample : PB167095BS
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB167095BS

Integration File: autoint1.e
 Quant Time: Mar 13 02:28:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
 Quant Title :
 QLast Update : Mon Mar 03 14:28:15 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...	15.022	1953213	16.381 ug/ml
Target Compounds			
1) N-OCTANE	2.028	1585077	13.579 ug/ml
2) N-DECANE	4.565	1952398	17.029 ug/ml
3) N-DODECANE	6.733	2095652	17.575 ug/ml
4) N-TETRADECANE	8.561	2070938	17.574 ug/ml
5) N-HEXADECANE	10.168	2127804	17.619 ug/ml
6) N-OCTADECANE	11.611	2246932	17.590 ug/ml
7) N-EICOSANE	12.922	2235425	17.367 ug/ml
8) N-DOCOSANE	14.122	2227181	17.201 ug/ml
10) N-TETRACOSANE	15.225	2237248	17.038 ug/ml
11) N-HEXACOSANE	16.248	2184623	16.931 ug/ml
12) N-OCTACOSANE	17.198	2130241	16.638 ug/ml
13) N-TRIACONTANE	18.087	2040184	15.977 ug/ml
14) N-DOTRIACONTANE	18.920	1650219	13.224 ug/ml
15) N-TETRATRIACONTANE	19.705	913443	7.974 ug/ml
16) N-HEXATRIACONTANE	20.447	458792	4.560 ug/ml
17) N-OCTATRIACONTANE	21.187	323550	3.508 ug/ml
18) N-TETRACONTANE	22.107	250501	2.949 ug/ml

(f)=RT Delta > 1/2 Window

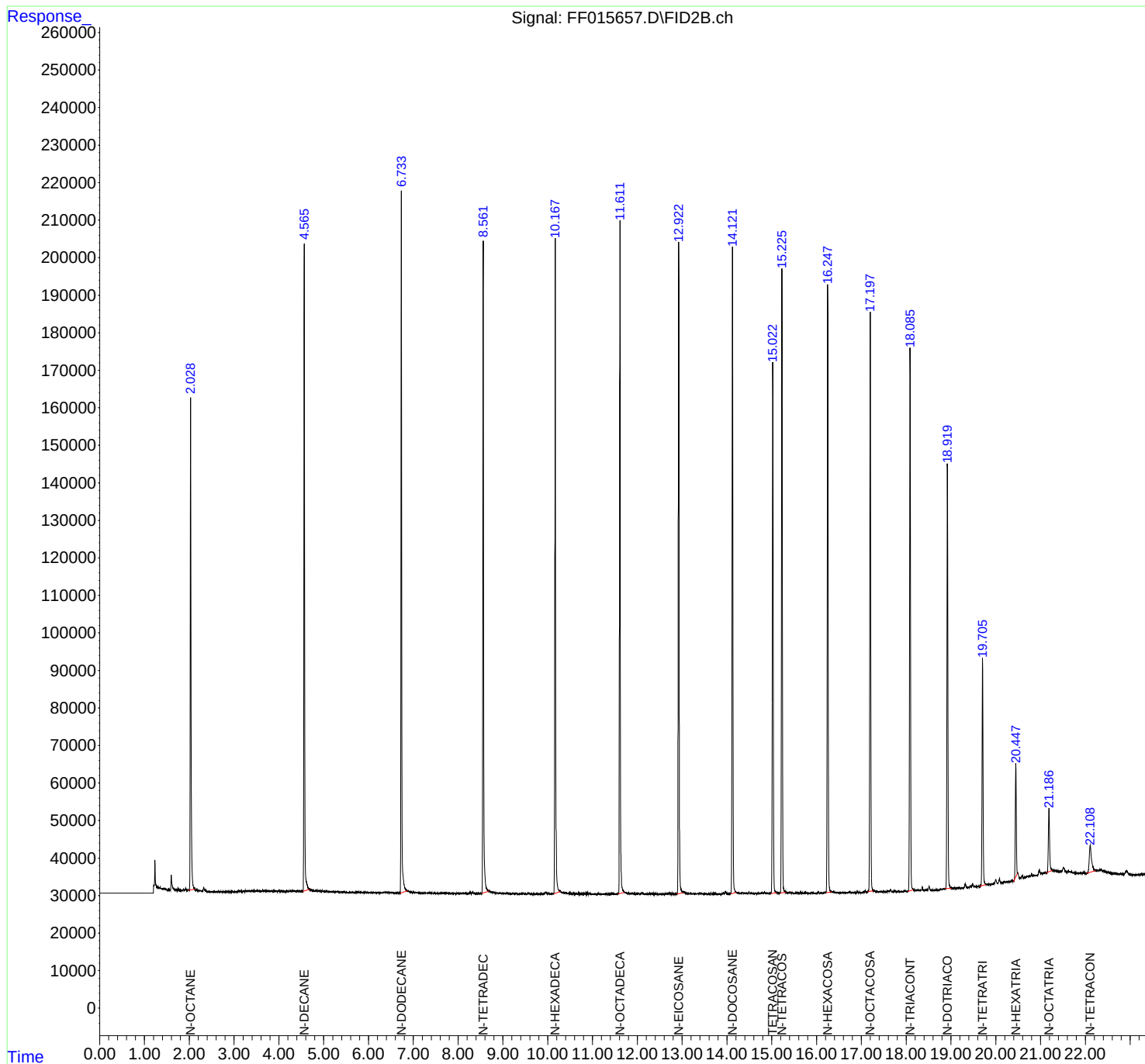
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015657.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 12:29
Operator : YP\AJ
Sample : PB167095BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB167095BS

Integration File: autoint1.e
Quant Time: Mar 13 02:28:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 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_F\Data\FF031225\
Data File : FF015657.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 12:29
Sample : PB167095BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.028	1.984	2.127	BB	131070	1585077	70.54%	5.166%
2	4.565	4.535	4.687	BB	172148	1952398	86.89%	6.363%
3	6.733	6.704	6.865	BB	187040	2095652	93.27%	6.830%
4	8.561	8.529	8.680	BB	173848	2070938	92.17%	6.749%
5	10.168	10.134	10.275	BB	174691	2127804	94.70%	6.935%
6	11.611	11.562	11.717	BB	179831	2246932	100.00%	7.323%
7	12.922	12.884	13.025	BB	173287	2235425	99.49%	7.285%
8	14.122	14.085	14.212	BB	172543	2227181	99.12%	7.259%
9	15.022	14.982	15.102	BB	141631	1953213	86.93%	6.366%
10	15.225	15.185	15.312	BB	165964	2237248	99.57%	7.291%
11	16.248	16.210	16.332	BB	161495	2184623	97.23%	7.120%
12	17.198	17.140	17.270	BB	154386	2130241	94.81%	6.943%
13	18.087	18.039	18.164	BB	142582	2040184	90.80%	6.649%
14	18.920	18.859	19.015	BB	112779	1650219	73.44%	5.378%
15	19.705	19.645	19.780	BB	60605	913443	40.65%	2.977%
16	20.447	20.400	20.484	BV	30111	458792	20.42%	1.495%
17	21.187	21.129	21.264	BB	16954	323550	14.40%	1.054%
18	22.107	22.029	22.229	BB	7146	250501	11.15%	0.816%
Sum of corrected areas:							30683421	

FF030325.M Thu Mar 13 02:55:04 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	WASTEMS	SDG No.:	Q1542
Lab Sample ID:	Q1542-01MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	85.3
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
FF015660.D	1	03/12/25 08:40	03/12/25 13:57	PB167095

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
PHC	Petroleum Hydrocarbons	50900		373	1660	3320	ug/kg
SURROGATES							
16416-32-3	TETRACOSANE-d50	13.7		37 - 130		68%	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_F\Data\FF031225\
 Data File : FF015660.D
 Signal(s) : FID2B.ch
 Acq On : 12 Mar 2025 13:57
 Operator : YP\AJ
 Sample : Q1542-01MS
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WASTEMS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/13/2025
 Supervised By :Ankita Jodhani 03/13/2025

Integration File: autoint1.e
 Quant Time: Mar 13 02:29:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
 Quant Title :
 QLast Update : Mon Mar 03 14:28:15 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...	15.025	1630279	13.673 ug/ml
Target Compounds			
1) N-OCTANE	2.028	1666823	14.279 ug/ml
2) N-DECANE	4.566	2022845	17.644 ug/ml
3) N-DODECANE	6.734	2219894	18.617 ug/ml
4) N-TETRADECANE	8.561	2250350	19.096 ug/ml
5) N-HEXADECANE	10.168	2328828	19.284 ug/ml
6) N-OCTADECANE	11.613	2492746	19.514 ug/ml
7) N-EICOSANE	12.924	2535739	19.700 ug/ml
8) N-DOCOSANE	14.125	2486933	19.207 ug/ml
10) N-TETRACOSANE	15.225	4378623	33.347 ug/ml
11) N-HEXACOSANE	16.253	2542257	19.703 ug/ml
12) N-OCTACOSANE	17.204	2955313	23.082 ug/ml
13) N-TRIACONTANE	18.094	2498258	19.564 ug/ml
14) N-DOTRIACONTANE	18.927	2563300	20.541 ug/ml
15) N-TETRATRIACONTANE	19.711	1296233	11.316 ug/ml
16) N-HEXATRIACONTANE	20.452	934499	9.288 ug/mlm
17) N-OCTATRIACONTANE	21.188	980494	10.631 ug/mlm
18) N-TETRACONTANE	22.105	1402841	16.517 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015660.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 13:57
Operator : YP\AJ
Sample : Q1542-01MS
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :

FID_F

ClientSampleId :

WASTEMS

Manual Integrations

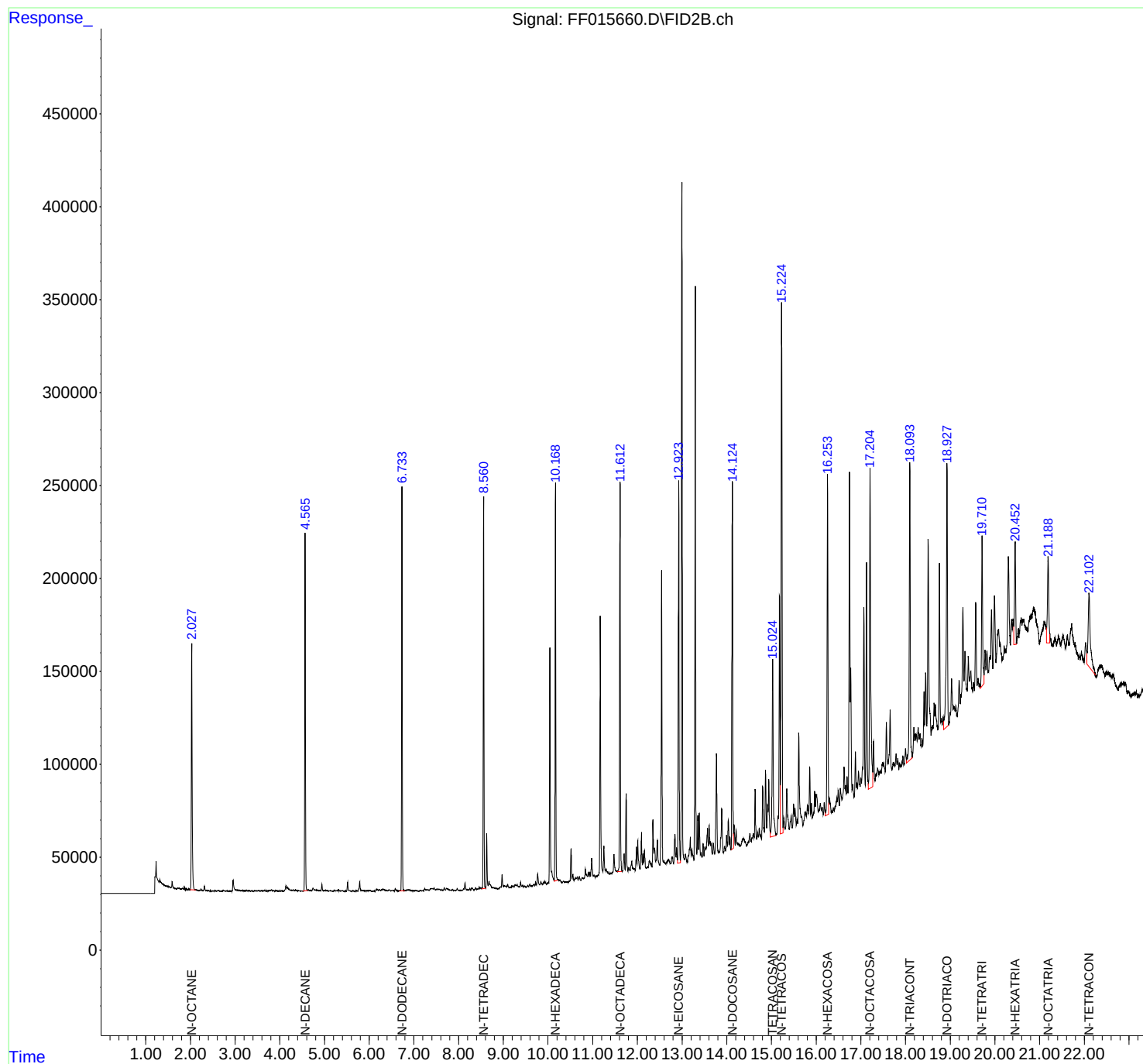
APPROVED

Reviewed By :Yogesh Patel 03/13/2025

Supervised By :Ankita Jodhani 03/13/2025

Integration File: autoint1.e
Quant Time: Mar 13 02:29:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

ClientSampleId :

WASTEMS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF03122

Data File : FF015660.D

Signal(s) : FID2B.ch

Acq On : 12 Mar 2025 13:57

Sample : Q1542-01MS

Misc :

ALS Vial : 75 Sample Multiplier: 1

Reviewed By :Yogesh Patel 03/13/2025

Supervised By :Ankita Jodhani 03/13/2025

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M

Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.915	1.900	1.950	BV	486	5393	0.12%	0.003%
2	1.966	1.950	1.993	VV	525	6183	0.14%	0.004%
3	2.028	1.993	2.096	PV	132623	1674677	38.20%	1.077%
4	2.105	2.096	2.198	VV	443	12663	0.29%	0.008%
5	2.200	2.198	2.206	VV	148	496	0.01%	0.000%
6	2.209	2.206	2.216	VV	137	536	0.01%	0.000%
7	2.233	2.216	2.290	PV	838	13964	0.32%	0.009%
8	2.313	2.290	2.350	VV	2660	32727	0.75%	0.021%
9	2.361	2.350	2.387	VV	181	3263	0.07%	0.002%
10	2.394	2.387	2.397	VV	185	746	0.02%	0.000%
11	2.400	2.397	2.433	VV	162	1868	0.04%	0.001%
12	2.451	2.433	2.470	PV	193	1966	0.04%	0.001%
13	2.479	2.470	2.488	VV	96	699	0.02%	0.000%
14	2.491	2.488	2.496	VV	86	240	0.01%	0.000%
15	2.503	2.496	2.512	PV	99	356	0.01%	0.000%
16	2.517	2.512	2.524	VV	147	330	0.01%	0.000%
17	2.544	2.524	2.563	PV	176	1992	0.05%	0.001%
18	2.566	2.563	2.577	VV	147	543	0.01%	0.000%
19	2.578	2.577	2.584	VV	119	247	0.01%	0.000%
20	2.619	2.584	2.674	VV	544	11307	0.26%	0.007%
21	2.679	2.674	2.684	VV	113	454	0.01%	0.000%
22	2.691	2.684	2.700	VV	133	554	0.01%	0.000%
23	2.740	2.700	2.785	PV	471	10482	0.24%	0.007%
24	2.807	2.785	2.842	VV	204	4057	0.09%	0.003%
25	2.858	2.842	2.873	VV	142	1345	0.03%	0.001%
26	2.880	2.873	2.890	VV	109	896	0.02%	0.001%
27	2.895	2.890	2.904	VV	118	650	0.01%	0.000%
28	2.906	2.904	2.912	VV	105	371	0.01%	0.000%
29	2.954	2.912	3.020	VV	6062	113222	2.58%	0.073%
30	3.031	3.020	3.047	VV	655	9555	0.22%	0.006%
31	3.064	3.047	3.085	VV	615	11485	0.26%	0.007%
32	3.087	3.085	3.124	VV	539	9066	0.21%	0.006%
33	3.130	3.124	3.159	VV	339	5756	0.13%	0.004%
34	3.172	3.159	3.180	VV	385	4063	0.09%	0.003%
35	3.183	3.180	3.215	VV	361	5865	0.13%	0.004%
36	3.225	3.215	3.232	VV	360	2925	0.07%	0.002%

					retention	Area	Area%	Area%
37	3.235	3.232	3.278	VV	377	6975	0.16%	0.004%
38	3.308	3.278	3.345	VV	428	10525	0.11%	0.003%
39	3.363	3.345	3.405	VV	267	7041	0.06%	0.002%
40	3.411	3.405	3.417	VV	215	1284	0.05%	0.001%
41	3.432	3.417	3.445	VV	398	4654	0.09%	0.002%
42	3.449	3.445	3.456	VV	322	1608	0.08%	0.002%
43	3.459	3.456	3.470	VV	260	1876	0.04%	0.001%
44	3.486	3.470	3.499	VV	232	3431	0.08%	0.002%
45	3.508	3.499	3.513	VV	265	1954	0.04%	0.001%
46	3.521	3.513	3.526	VV	306	1718	0.04%	0.001%
47	3.537	3.526	3.558	VV	356	4750	0.11%	0.003%
48	3.596	3.558	3.638	VV	421	12569	0.29%	0.008%
49	3.641	3.638	3.647	VV	258	1148	0.03%	0.001%
50	3.667	3.647	3.689	VV	607	9559	0.22%	0.006%
51	3.692	3.689	3.712	VV	216	2775	0.06%	0.002%
52	3.716	3.712	3.722	VV	261	1419	0.03%	0.001%
53	3.728	3.722	3.740	VV	325	3006	0.07%	0.002%
54	3.768	3.740	3.786	VV	519	11078	0.25%	0.007%
55	3.803	3.786	3.846	VV	623	16959	0.39%	0.011%
56	3.866	3.846	3.875	VV	374	4443	0.10%	0.003%
57	3.882	3.875	3.890	VV	286	2075	0.05%	0.001%
58	3.912	3.890	3.924	VV	362	5930	0.14%	0.004%
59	3.938	3.924	3.985	VV	419	8569	0.20%	0.006%
60	4.001	3.985	4.016	VV	296	4240	0.10%	0.003%
61	4.027	4.016	4.052	VV	391	6263	0.14%	0.004%
62	4.055	4.052	4.064	VV	221	1280	0.03%	0.001%
63	4.074	4.064	4.090	VV	237	2966	0.07%	0.002%
64	4.135	4.090	4.167	VV	2916	66316	1.51%	0.043%
65	4.178	4.167	4.279	VV	2018	67851	1.55%	0.044%
66	4.296	4.279	4.328	VV	766	16617	0.38%	0.011%
67	4.347	4.328	4.370	VV	825	15634	0.36%	0.010%
68	4.379	4.370	4.385	VV	561	4489	0.10%	0.003%
69	4.388	4.385	4.410	VV	583	6486	0.15%	0.004%
70	4.413	4.410	4.420	VV	377	2018	0.05%	0.001%
71	4.428	4.420	4.440	VV	359	3533	0.08%	0.002%
72	4.449	4.440	4.457	VV	299	2663	0.06%	0.002%
73	4.460	4.457	4.471	VV	285	2163	0.05%	0.001%
74	4.473	4.471	4.481	VV	266	1422	0.03%	0.001%
75	4.486	4.481	4.495	VV	309	2146	0.05%	0.001%
76	4.503	4.495	4.508	VV	313	2159	0.05%	0.001%
77	4.513	4.508	4.532	VV	401	3736	0.09%	0.002%
78	4.566	4.532	4.638	VV	192810	2053088	46.83%	1.320%
79	4.644	4.638	4.668	VV	732	10428	0.24%	0.007%
80	4.684	4.668	4.689	VV	674	6859	0.16%	0.004%
81	4.694	4.689	4.709	VV	604	6038	0.14%	0.004%
82	4.741	4.709	4.779	VV	1892	44569	1.02%	0.029%
83	4.782	4.779	4.809	VV	858	13935	0.32%	0.009%
84	4.814	4.809	4.837	VV	744	10267	0.23%	0.007%
85	4.849	4.837	4.862	VV	649	8496	0.19%	0.005%
86	4.881	4.862	4.897	VV	575	10453	0.24%	0.007%
87	4.906	4.897	4.915	VV	459	4404	0.10%	0.003%
88	4.942	4.915	4.979	VV	3815	50906	1.16%	0.033%
89	5.013	4.979	5.020	VV	482	10158	0.23%	0.007%

Instrument :

FID_F

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 03/13/2025
 Supervised By :Ankita Jodhani 03/13/2025

90	5.030	5.020	5.062	VV	493	10508	0.24%	0.007%
91	5.072	5.062	5.099	VV	444	8259		
92	5.128	5.099	5.142	VV	417	8608		
93	5.152	5.142	5.185	VV	395	6669		
94	5.224	5.185	5.237	VV	585	10369		
95	5.241	5.237	5.249	VV	473	2664		
96	5.253	5.249	5.265	VV	421	3314	0.08%	0.002%
97	5.282	5.265	5.293	VV	422	5602	0.13%	0.004%
98	5.310	5.293	5.340	VV	1130	18582	0.42%	0.012%
99	5.343	5.340	5.350	VV	375	1999	0.05%	0.001%
100	5.356	5.350	5.376	VV	345	4913	0.11%	0.003%
101	5.390	5.376	5.410	VV	379	6466	0.15%	0.004%
102	5.413	5.410	5.426	VV	277	2401	0.05%	0.002%
103	5.452	5.426	5.469	VV	290	5137	0.12%	0.003%
104	5.480	5.469	5.493	VV	256	2682	0.06%	0.002%
105	5.516	5.493	5.575	VV	4950	70994	1.62%	0.046%
106	5.579	5.575	5.618	VV	338	5780	0.13%	0.004%
107	5.637	5.618	5.666	VV	677	8522	0.19%	0.005%
108	5.672	5.666	5.680	VV	111	426	0.01%	0.000%
109	5.681	5.680	5.688	VV	85	243	0.01%	0.000%
110	5.704	5.688	5.748	PV	642	13006	0.30%	0.008%
111	5.788	5.748	5.852	VV	5208	91773	2.09%	0.059%
112	5.861	5.852	5.889	VV	474	9635	0.22%	0.006%
113	5.903	5.889	5.930	VV	534	8991	0.21%	0.006%
114	5.935	5.930	5.951	VV	341	3847	0.09%	0.002%
115	5.969	5.951	5.987	VV	629	9358	0.21%	0.006%
116	6.000	5.987	6.018	VV	499	7108	0.16%	0.005%
117	6.029	6.018	6.047	VV	352	5120	0.12%	0.003%
118	6.052	6.047	6.062	VV	247	1870	0.04%	0.001%
119	6.073	6.062	6.083	VV	271	2661	0.06%	0.002%
120	6.086	6.083	6.121	VV	243	3664	0.08%	0.002%
121	6.124	6.121	6.134	VV	189	786	0.02%	0.001%
122	6.178	6.134	6.203	VV	1157	32625	0.74%	0.021%
123	6.209	6.203	6.213	VV	734	4367	0.10%	0.003%
124	6.223	6.213	6.257	VV	787	17096	0.39%	0.011%
125	6.276	6.257	6.282	VV	845	10293	0.23%	0.007%
126	6.305	6.282	6.369	VV	1210	44108	1.01%	0.028%
127	6.383	6.369	6.409	VV	580	10529	0.24%	0.007%
128	6.427	6.409	6.434	VV	596	6613	0.15%	0.004%
129	6.447	6.434	6.487	VV	874	17394	0.40%	0.011%
130	6.504	6.487	6.518	VV	482	6810	0.16%	0.004%
131	6.535	6.518	6.565	VV	472	8869	0.20%	0.006%
132	6.583	6.565	6.613	VV	1530	21887	0.50%	0.014%
133	6.620	6.613	6.650	VV	466	5715	0.13%	0.004%
134	6.656	6.650	6.661	VV	206	913	0.02%	0.001%
135	6.671	6.661	6.674	VV	171	1212	0.03%	0.001%
136	6.683	6.674	6.687	VV	258	1395	0.03%	0.001%
137	6.696	6.687	6.704	VV	235	1923	0.04%	0.001%
138	6.734	6.704	6.798	VV	217604	2232789	50.93%	1.435%
139	6.817	6.798	6.828	VV	506	6856	0.16%	0.004%
140	6.847	6.828	6.872	VV	732	15440	0.35%	0.010%
141	6.886	6.872	6.944	VV	884	21018	0.48%	0.014%

Instrument :

FID_F

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

							Instrument : FID_F	
							ClientSampleId : WASTEMS	
142	6.948	6.944	6.957	VV	308	1929	0.04%	0.001%
143	6.961	6.957	6.989	VV	256	3649		
144	7.001	6.989	7.013	VV	252	2755		
145	7.021	7.013	7.041	VV	272	3067		
146	7.046	7.041	7.051	VV	124	588		
147	7.061	7.051	7.090	VV	145	2539		
148	7.095	7.090	7.117	VV	95	696	0.02%	0.000%
149	7.145	7.117	7.173	PV	287	4682	0.11%	0.003%
150	7.202	7.173	7.212	PV	304	3190	0.07%	0.002%
151	7.242	7.212	7.294	VV	1137	30656	0.70%	0.020%
152	7.309	7.294	7.342	VV	689	15940	0.36%	0.010%
153	7.371	7.342	7.382	VV	1257	21666	0.49%	0.014%
154	7.391	7.382	7.400	VV	1355	13403	0.31%	0.009%
155	7.413	7.400	7.429	VV	1329	21461	0.49%	0.014%
156	7.453	7.429	7.488	VV	1589	36007	0.82%	0.023%
157	7.491	7.488	7.500	VV	584	3610	0.08%	0.002%
158	7.519	7.500	7.538	VV	1172	18864	0.43%	0.012%
159	7.559	7.538	7.615	VV	934	27065	0.62%	0.017%
160	7.629	7.615	7.644	VV	486	7074	0.16%	0.005%
161	7.680	7.644	7.709	VV	1667	26972	0.62%	0.017%
162	7.728	7.709	7.798	VV	1396	40496	0.92%	0.026%
163	7.802	7.798	7.807	VV	342	1706	0.04%	0.001%
164	7.812	7.807	7.829	VV	361	4188	0.10%	0.003%
165	7.855	7.829	7.911	VV	536	14023	0.32%	0.009%
166	7.916	7.911	7.926	VV	120	989	0.02%	0.001%
167	7.969	7.926	8.007	PV	1024	17425	0.40%	0.011%
168	8.016	8.007	8.039	VV	215	2520	0.06%	0.002%
169	8.053	8.039	8.075	VV	216	2485	0.06%	0.002%
170	8.081	8.075	8.085	PV	144	578	0.01%	0.000%
171	8.116	8.085	8.126	VV	1070	15099	0.34%	0.010%
172	8.144	8.126	8.187	VV	4074	56853	1.30%	0.037%
173	8.207	8.187	8.235	VV	388	5538	0.13%	0.004%
174	8.253	8.235	8.271	VV	1035	11593	0.26%	0.007%
175	8.312	8.271	8.339	VV	1090	24754	0.56%	0.016%
176	8.353	8.339	8.359	VV	244	2102	0.05%	0.001%
177	8.381	8.359	8.408	VV	1232	18334	0.42%	0.012%
178	8.423	8.408	8.439	VV	501	7667	0.17%	0.005%
179	8.465	8.439	8.482	VV	1148	18054	0.41%	0.012%
180	8.494	8.482	8.511	VV	1186	14361	0.33%	0.009%
181	8.561	8.511	8.607	VV	211063	2280438	52.02%	1.466%
182	8.630	8.607	8.664	VV	30290	344739	7.86%	0.222%
183	8.682	8.664	8.740	VV	4342	118182	2.70%	0.076%
184	8.749	8.740	8.762	VV	1123	12714	0.29%	0.008%
185	8.767	8.762	8.798	VV	898	16115	0.37%	0.010%
186	8.803	8.798	8.845	VV	743	13047	0.30%	0.008%
187	8.849	8.845	8.883	VV	267	3339	0.08%	0.002%
188	8.897	8.883	8.907	PV	199	1843	0.04%	0.001%
189	8.947	8.907	8.953	VV	1072	21352	0.49%	0.014%
190	8.974	8.953	9.010	VV	7611	105946	2.42%	0.068%
191	9.019	9.010	9.032	VV	1599	18703	0.43%	0.012%
192	9.037	9.032	9.070	VV	1433	26928	0.61%	0.017%
193	9.100	9.070	9.135	VV	2266	48807	1.11%	0.031%
194	9.160	9.135	9.169	VV	702	10973	0.25%	0.007%

195	9.187	9.169	9.204	VV	1117	16013	0.37%	0.010%
196	9.219	9.204	9.241	VV	1425	20937		
197	9.262	9.241	9.284	VV	1874	33106		
198	9.287	9.284	9.293	VV	1235	6515		
199	9.310	9.293	9.355	VV	1906	39841		
200	9.358	9.355	9.366	VV	564	3200		
201	9.388	9.366	9.411	VV	2974	40310	0.92%	0.026%
202	9.431	9.411	9.453	VV	1338	22133	0.50%	0.014%
203	9.476	9.453	9.502	VV	813	15401	0.35%	0.010%
204	9.521	9.502	9.527	PV	276	2949	0.07%	0.002%
205	9.547	9.527	9.563	VV	1046	12820	0.29%	0.008%
206	9.595	9.563	9.614	VV	1467	24079	0.55%	0.015%
207	9.630	9.614	9.651	VV	482	7787	0.18%	0.005%
208	9.679	9.651	9.705	VV	1056	20227	0.46%	0.013%
209	9.724	9.705	9.742	VV	2393	29010	0.66%	0.019%
210	9.770	9.742	9.821	VV	6460	114367	2.61%	0.074%
211	9.844	9.821	9.877	VV	2150	40094	0.91%	0.026%
212	9.920	9.877	9.935	VV	2175	44143	1.01%	0.028%
213	9.947	9.935	9.964	VV	1576	19099	0.44%	0.012%
214	9.985	9.964	9.990	VV	831	10614	0.24%	0.007%
215	10.008	9.990	10.019	VV	1288	16805	0.38%	0.011%
216	10.044	10.019	10.081	VV	127368	1478348	33.72%	0.950%
217	10.085	10.081	10.139	VV	6988	143107	3.26%	0.092%
218	10.168	10.139	10.218	VV	215999	2409217	54.95%	1.549%
219	10.228	10.218	10.242	VV	2302	30610	0.70%	0.020%
220	10.250	10.242	10.263	VV	1790	19999	0.46%	0.013%
221	10.275	10.263	10.317	VV	1672	30891	0.70%	0.020%
222	10.344	10.317	10.387	VV	1018	22484	0.51%	0.014%
223	10.404	10.387	10.427	VV	526	7140	0.16%	0.005%
224	10.442	10.427	10.461	VV	536	5591	0.13%	0.004%
225	10.482	10.461	10.492	PV	832	11334	0.26%	0.007%
226	10.516	10.492	10.539	VV	17877	208983	4.77%	0.134%
227	10.557	10.539	10.581	VV	3851	59663	1.36%	0.038%
228	10.615	10.581	10.632	VV	1823	39805	0.91%	0.026%
229	10.655	10.632	10.675	VV	2179	38100	0.87%	0.024%
230	10.699	10.675	10.737	VV	2136	36916	0.84%	0.024%
231	10.768	10.737	10.783	PV	1414	22936	0.52%	0.015%
232	10.787	10.783	10.804	VV	899	10061	0.23%	0.006%
233	10.838	10.804	10.887	VV	5756	126573	2.89%	0.081%
234	10.907	10.887	10.922	VV	3731	52338	1.19%	0.034%
235	10.936	10.922	10.952	VV	3663	44589	1.02%	0.029%
236	10.979	10.952	11.011	VV	11043	189204	4.32%	0.122%
237	11.026	11.011	11.057	VV	1610	32379	0.74%	0.021%
238	11.074	11.057	11.091	VV	1262	14767	0.34%	0.009%
239	11.118	11.091	11.127	VV	1192	19120	0.44%	0.012%
240	11.171	11.127	11.230	VV	140350	1740735	39.71%	1.119%
241	11.251	11.230	11.287	VV	16445	256635	5.85%	0.165%
242	11.302	11.287	11.376	VV	3791	109943	2.51%	0.071%
243	11.389	11.376	11.405	VV	1068	13917	0.32%	0.009%
244	11.417	11.405	11.426	VV	844	9210	0.21%	0.006%
245	11.451	11.426	11.457	VV	1519	21961	0.50%	0.014%
246	11.478	11.457	11.530	VV	10942	192343	4.39%	0.124%

Instrument :

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Manual IntegrationsAPPROVED

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247	11.540	11.530	11.554	VV	1782	21880	0.50%	0.014%	
248	11.613	11.554	11.658	VV	210901	2558923	58.24%	2.769%	
249	11.704	11.658	11.727	VV	10269	200625	2.24%	0.063%	
250	11.750	11.727	11.790	VV	42150	489989	11.25%	0.530%	
251	11.809	11.790	11.840	VV	2451	39696	0.25%	0.007%	
252	11.875	11.840	11.914	VV	5552	115956	2.22%	0.006%	
253	11.917	11.914	11.929	VV	1317	10744	0.25%	0.007%	
254	11.932	11.929	11.952	VV	1201	9806	0.22%	0.006%	
255	11.977	11.952	11.993	VV	12664	144859	3.30%	0.093%	
256	12.009	11.993	12.063	VV	16068	251968	5.75%	0.162%	
257	12.091	12.063	12.112	VV	20069	257587	5.88%	0.166%	
258	12.128	12.112	12.143	VV	8500	106870	2.44%	0.069%	
259	12.159	12.143	12.196	VV	10071	139719	3.19%	0.090%	
260	12.199	12.196	12.206	VV	462	2337	0.05%	0.002%	
261	12.222	12.206	12.238	VV	1053	13736	0.31%	0.009%	
262	12.266	12.238	12.295	VV	3840	94180	2.15%	0.061%	
263	12.305	12.295	12.329	VV	2599	36763	0.84%	0.024%	
264	12.348	12.329	12.369	VV	25761	317706	7.25%	0.204%	
265	12.382	12.369	12.411	VV	10106	176491	4.03%	0.113%	
266	12.448	12.411	12.499	VV	14316	278581	6.35%	0.179%	
267	12.544	12.499	12.582	VV	158801	2089713	47.67%	1.344%	
268	12.594	12.582	12.630	VV	2776	49527	1.13%	0.032%	
269	12.648	12.630	12.652	VV	1408	16360	0.37%	0.011%	
270	12.656	12.652	12.667	VV	1432	11855	0.27%	0.008%	
271	12.699	12.667	12.739	VV	2982	80916	1.85%	0.052%	
272	12.773	12.739	12.781	VV	3884	50145	1.14%	0.032%	
273	12.785	12.781	12.807	VV	3676	35054	0.80%	0.023%	
274	12.839	12.807	12.862	VV	15800	238235	5.43%	0.153%	
275	12.877	12.862	12.895	VV	8514	109845	2.51%	0.071%	
276	12.924	12.895	12.965	VV	205804	2537837	57.89%	1.632%	
277	12.997	12.965	13.053	VV	365304	4306815	98.24%	2.769%	
278	13.076	13.053	13.118	VV	4157	66847	1.52%	0.043%	
279	13.183	13.118	13.202	PV	12890	263898	6.02%	0.170%	
280	13.217	13.202	13.237	VV	6204	90949	2.07%	0.058%	
281	13.242	13.237	13.266	VV	2865	28515	0.65%	0.018%	
282	13.295	13.266	13.329	PV	309006	3472174	79.20%	2.232%	
283	13.351	13.329	13.368	VV	23671	287467	6.56%	0.185%	
284	13.384	13.368	13.410	VV	24610	306819	7.00%	0.197%	
285	13.419	13.410	13.447	VV	2554	39080	0.89%	0.025%	
286	13.472	13.447	13.490	VV	7582	93347	2.13%	0.060%	
287	13.511	13.490	13.528	VV	5623	96707	2.21%	0.062%	
288	13.533	13.528	13.536	VV	4585	20700	0.47%	0.013%	
289	13.568	13.536	13.589	VV	15520	296275	6.76%	0.190%	
290	13.606	13.589	13.624	VV	16765	233950	5.34%	0.150%	
291	13.631	13.624	13.642	VV	7879	77385	1.77%	0.050%	
292	13.649	13.642	13.677	VV	6457	82244	1.88%	0.053%	
293	13.697	13.677	13.731	VV	6304	98398	2.24%	0.063%	
294	13.768	13.731	13.808	VV	54319	824242	18.80%	0.530%	
295	13.821	13.808	13.832	VV	1275	15591	0.36%	0.010%	
296	13.886	13.832	13.922	VV	23603	428999	9.79%	0.276%	
297	13.951	13.922	13.971	PV	3254	45479	1.04%	0.029%	
298	13.995	13.971	14.013	VV	9163	118934	2.71%	0.076%	
299	14.034	14.013	14.056	VV	16929	231472	5.28%	0.149%	

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300	14.070	14.056	14.092	VV	7574	97295	2.22%	0.063%
301	14.125	14.092	14.151	VV	198554	2512244	57.44%	1.911%
302	14.162	14.151	14.186	VV	13561	177433	4.44%	0.155%
303	14.206	14.186	14.233	VV	10400	162145	3.12%	0.106%
304	14.238	14.233	14.251	VV	3224	29896	0.94%	0.032%
305	14.260	14.251	14.279	VV	2815	37745	0.82%	0.028%
306	14.291	14.279	14.305	VV	1899	23030	0.53%	0.015%
307	14.367	14.305	14.374	VV	4664	134275	3.06%	0.086%
308	14.381	14.374	14.409	VV	4609	77739	1.77%	0.050%
309	14.419	14.409	14.441	VV	2510	27648	0.63%	0.018%
310	14.481	14.441	14.490	PV	2271	34201	0.78%	0.022%
311	14.516	14.490	14.547	VV	6323	120095	2.74%	0.077%
312	14.597	14.547	14.612	VV	5473	151483	3.46%	0.097%
313	14.633	14.612	14.670	VV	28942	402820	9.19%	0.259%
314	14.688	14.670	14.706	VV	5658	82820	1.89%	0.053%
315	14.727	14.706	14.773	VV	7181	157965	3.60%	0.102%
316	14.803	14.773	14.841	VV	28995	478745	10.92%	0.308%
317	14.866	14.841	14.891	VV	37369	571163	13.03%	0.367%
318	14.912	14.891	14.922	VV	18049	247651	5.65%	0.159%
319	14.938	14.922	14.976	VV	31701	486627	11.10%	0.313%
320	15.025	14.976	15.104	VV	95716	1642762	37.47%	1.056%
321	15.143	15.104	15.154	VV	10239	139395	3.18%	0.090%
322	15.179	15.154	15.199	VV	128586	1694564	38.65%	1.089%
323	15.225	15.199	15.259	VV	285527	4384107	100.00%	2.819%
324	15.277	15.259	15.309	VV	8028	136622	3.12%	0.088%
325	15.341	15.309	15.396	VV	23128	472937	10.79%	0.304%
326	15.419	15.396	15.423	VV	5176	49139	1.12%	0.032%
327	15.438	15.423	15.462	VV	7812	115797	2.64%	0.074%
328	15.494	15.462	15.509	VV	13749	195682	4.46%	0.126%
329	15.524	15.509	15.553	VV	11258	185591	4.23%	0.119%
330	15.570	15.553	15.584	VV	4825	64356	1.47%	0.041%
331	15.610	15.584	15.661	VV	51039	885375	20.20%	0.569%
332	15.666	15.661	15.701	VV	5847	92015	2.10%	0.059%
333	15.748	15.701	15.761	PV	7121	133128	3.04%	0.086%
334	15.771	15.761	15.781	VV	6445	68234	1.56%	0.044%
335	15.804	15.781	15.832	VV	9973	224850	5.13%	0.145%
336	15.854	15.832	15.876	VV	30376	417393	9.52%	0.268%
337	15.891	15.876	15.912	VV	10346	145620	3.32%	0.094%
338	15.965	15.912	15.982	VV	15959	297336	6.78%	0.191%
339	15.997	15.982	16.047	VV	13930	382166	8.72%	0.246%
340	16.091	16.047	16.112	VV	7913	209185	4.77%	0.134%
341	16.135	16.112	16.156	VV	5113	101592	2.32%	0.065%
342	16.181	16.156	16.204	VV	7281	108385	2.47%	0.070%
343	16.253	16.204	16.282	VV	182724	2536737	57.86%	1.631%
344	16.298	16.282	16.341	VV	8372	172788	3.94%	0.111%
345	16.352	16.341	16.365	PV	993	7055	0.16%	0.005%
346	16.369	16.365	16.372	VV	285	860	0.02%	0.001%
347	16.393	16.372	16.404	VV	1609	20450	0.47%	0.013%
348	16.461	16.404	16.474	VV	6807	142077	3.24%	0.091%
349	16.492	16.474	16.517	VV	10272	158402	3.61%	0.102%
350	16.540	16.517	16.575	VV	11010	227815	5.20%	0.146%
351	16.623	16.575	16.651	VV	21411	486804	11.10%	0.313%

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						Instrument : FID_F		
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rteres						Manual IntegrationsAPPROVED		
352	16.660	16.651	16.674	VV	11004	123601	2.82%	0.079%
353	16.689	16.674	16.710	VV	15302	223219	5.10%	0.144%
354	16.745	16.710	16.763	VV	178218	2539766	33.91%	0.956%
355	16.772	16.763	16.801	VV	72622	916194	39.66%	1.118%
						Reviewed By :Yogesh Patel 03/13/2025 Supervised By :Ankita Jodhani 03/13/2025		
356	16.817	16.801	16.844	VV	9600	170369	71.00%	2.001%
357	16.877	16.844	16.899	VV	26385	400511	10.33%	0.291%
358	16.912	16.899	16.925	VV	9218	121509	3.54%	0.100%
359	16.945	16.925	16.986	VV	14815	354737	7.26%	0.205%
360	17.001	16.986	17.013	VV	10508	148665	2.87%	0.081%
361	17.034	17.013	17.042	VV	16316	223388	2.77%	0.078%
362	17.066	17.042	17.099	VV	101612	1486718	8.09%	0.228%
363	17.125	17.099	17.169	VV	125379	1738812	3.39%	0.096%
364	17.204	17.169	17.264	VV	174832	3112509	5.10%	0.144%
365	17.282	17.264	17.312	VV	26888	452689	33.91%	0.956%
366	17.343	17.312	17.349	VV	8713	155219	39.66%	1.118%
367	17.375	17.349	17.405	VV	11391	318270	71.00%	2.001%
368	17.426	17.405	17.430	VV	9216	125837	10.33%	0.291%
369	17.436	17.430	17.454	VV	9353	120376	3.54%	0.100%
370	17.487	17.454	17.506	VV	12908	352203	7.26%	0.205%
371	17.513	17.506	17.545	VV	11829	233698	2.87%	0.081%
372	17.569	17.545	17.612	VV	33729	720878	2.75%	0.077%
373	17.653	17.612	17.695	VV	38727	881251	8.03%	0.226%
374	17.721	17.695	17.731	VV	10246	180146	5.33%	0.150%
375	17.736	17.731	17.741	VV	9548	57444	16.44%	0.463%
376	17.746	17.741	17.758	VV	9338	86910	20.10%	0.567%
377	17.788	17.758	17.808	VV	13778	313030	4.11%	0.116%
378	17.826	17.808	17.847	VV	11069	204033	1.31%	0.037%
379	17.865	17.847	17.882	VV	8270	143318	1.98%	0.056%
380	17.888	17.882	17.897	VV	6892	58879	7.14%	0.201%
381	17.940	17.897	17.961	VV	11068	301359	4.65%	0.131%
382	17.998	17.961	18.019	VV	14361	329666	3.27%	0.092%
383	18.034	18.019	18.042	VV	9075	119788	1.34%	0.038%
384	18.094	18.042	18.147	VV	167222	2913665	6.87%	0.194%
385	18.184	18.147	18.203	VV	23426	514041	7.52%	0.212%
386	18.218	18.203	18.229	VV	19467	276557	2.73%	0.077%
387	18.244	18.229	18.257	VV	18725	297029	66.46%	1.873%
388	18.280	18.257	18.304	VV	22119	517144	11.73%	0.330%
389	18.324	18.304	18.351	VV	18387	434909	6.31%	0.178%
390	18.366	18.351	18.386	VV	14861	270123	6.78%	0.191%
391	18.412	18.386	18.429	VV	39964	667169	11.80%	0.332%
392	18.449	18.429	18.474	VV	49520	935695	9.92%	0.280%
393	18.505	18.474	18.569	VV	120571	2729499	6.16%	0.174%
394	18.602	18.569	18.614	VV	19442	474779	10.83%	0.305%
395	18.638	18.614	18.654	VV	30985	594167	13.55%	0.382%
396	18.666	18.654	18.721	VV	29770	885825	20.21%	0.570%
397	18.757	18.721	18.792	VV	104289	1791222	40.86%	1.152%
398	18.801	18.792	18.821	VV	20727	331287	7.56%	0.213%
399	18.839	18.821	18.852	VV	21063	368324	8.40%	0.237%
400	18.927	18.852	18.964	VV	155170	3538087	80.70%	2.275%
401	18.998	18.964	19.006	VV	21636	462555	10.55%	0.297%
402	19.029	19.006	19.064	VV	39107	1016539	23.19%	0.654%
403	19.075	19.064	19.086	VV	23773	298623	6.81%	0.192%
404	19.089	19.086	19.093	VV	22988	92570	2.11%	0.060%

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405	19.096	19.093	19.108	VV	23204	201981	4.61%	0.130%
406	19.126	19.108	19.143	VV	23331	452365	10.33%	0.130%
407	19.150	19.143	19.156	VV	19314	148896	3.33%	0.130%
408	19.197	19.156	19.227	VV	36250	1101830	25.00%	0.130%
409	19.282	19.227	19.307	VV	74482	2043659	46.66%	0.130%
410	19.328	19.307	19.363	VV	50033	1346028	30.00%	0.130%
411	19.367	19.363	19.372	VV	29696	149662	3.41%	0.096%
412	19.374	19.372	19.379	VV	29805	135035	3.08%	0.087%
413	19.403	19.379	19.441	VV	46375	1356085	30.93%	0.872%
414	19.459	19.441	19.485	VV	37938	895868	20.43%	0.576%
415	19.488	19.485	19.503	VV	29112	316116	7.21%	0.203%
416	19.516	19.503	19.523	VV	31315	349847	7.98%	0.225%
417	19.528	19.523	19.540	VV	29987	291514	6.65%	0.187%
418	19.570	19.540	19.603	VV	73681	1739593	39.68%	1.118%
419	19.624	19.603	19.645	VV	32388	766673	17.49%	0.493%
420	19.651	19.645	19.674	VV	29081	484562	11.05%	0.312%
421	19.711	19.674	19.758	VV	107673	2653774	60.53%	1.706%
422	19.778	19.758	19.797	VV	45586	942027	21.49%	0.606%
423	19.822	19.797	19.850	VV	44413	1204427	27.47%	0.774%
424	19.893	19.850	19.898	VV	41180	1094653	24.97%	0.704%
425	19.922	19.898	19.948	VV	65341	1485272	33.88%	0.955%
426	20.114	20.106	20.158	VV	45174	1277973	29.15%	0.822%
427	20.163	20.158	20.168	VV	36336	225051	5.13%	0.145%
428	20.178	20.168	20.184	VV	37378	349241	7.97%	0.225%
429	20.207	20.184	20.224	VV	42595	944979	21.55%	0.608%
430	20.229	20.224	20.239	VV	40452	354499	8.09%	0.228%
431	20.242	20.239	20.249	VV	40036	241371	5.51%	0.155%
432	20.300	20.249	20.346	VV	89424	3303568	75.35%	2.124%
433	20.370	20.346	20.389	VV	54608	1285223	29.32%	0.826%
434	20.403	20.389	20.422	VV	54835	1056648	24.10%	0.679%
435	20.451	20.422	20.486	VV	95471	2478462	56.53%	1.593%
436	20.525	20.486	20.539	VV	48009	1417664	32.34%	0.911%
437	20.589	20.539	20.605	VV	52748	1940109	44.25%	1.247%
438	20.640	20.605	20.649	VV	51706	1350413	30.80%	0.868%
439	20.651	20.649	20.684	VV	51573	1011835	23.08%	0.651%
440	20.690	20.684	20.696	VV	46644	311766	7.11%	0.200%
441	20.701	20.696	20.713	VV	46308	476848	10.88%	0.307%
442	20.723	20.713	20.733	VV	46206	536283	12.23%	0.345%
443	20.739	20.733	20.744	VV	45454	289006	6.59%	0.186%
444	20.768	20.744	20.772	VV	49460	822146	18.75%	0.529%
445	20.781	20.772	20.796	VV	51538	715663	16.32%	0.460%
446	20.802	20.796	20.804	VV	51438	238581	5.44%	0.153%
447	20.810	20.804	20.821	VV	51756	521035	11.88%	0.335%
448	20.828	20.821	20.832	VV	51383	325614	7.43%	0.209%
449	20.857	20.832	20.874	VV	55027	1358575	30.99%	0.873%
450	20.878	20.874	20.883	VV	54720	285543	6.51%	0.184%
451	20.889	20.883	20.897	VV	53951	441075	10.06%	0.284%
452	21.032	21.001	21.036	VV	38358	764371	17.44%	0.491%
453	21.107	21.102	21.114	VV	44328	315904	7.21%	0.203%
454	21.118	21.114	21.157	VV	43862	1087353	24.80%	0.699%
455	21.189	21.157	21.239	VV	78397	2548241	58.12%	1.638%
456	21.244	21.239	21.274	VV	33754	654410	14.93%	0.421%

Instrument :

FID_F

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

rteres									
457	21.279	21.274	21.303	VV	30512	523263	11.94%	0.336%	
458	21.308	21.303	21.311	VV	29824	145590			
459	21.339	21.311	21.344	VV	32930	620785	14.00%	0.336%	
460	21.349	21.344	21.366	VV	32857	416757	9.94%	0.336%	
461	21.371	21.366	21.376	VV	29742	174903	3.88%	0.118%	
462	21.470	21.465	21.473	VV	27620	126253	2.94%	0.118%	
463	21.579	21.572	21.584	VV	25702	182949	4.17%	0.118%	
464	21.625	21.584	21.650	VV	30993	1106627	25.24%	0.711%	
465	21.762	21.758	21.772	VV	25912	216660	4.94%	0.139%	
466	21.775	21.772	21.781	VV	24107	126477	2.88%	0.081%	
467	21.792	21.781	21.831	VV	25126	657680	15.00%	0.423%	
468	21.836	21.831	21.864	VV	19110	349542	7.97%	0.225%	
469	21.885	21.864	21.912	VV	16566	457381	10.43%	0.294%	
470	21.936	21.912	21.967	VV	18574	528900	12.06%	0.340%	
471	21.972	21.967	21.984	VV	14629	136270	3.11%	0.088%	
472	21.988	21.984	21.997	VV	12962	98063	2.24%	0.063%	
473	22.028	21.997	22.065	VV	22008	716400	16.34%	0.461%	
474	22.104	22.065	22.201	VV	47358	1873133	42.73%	1.204%	
475	22.206	22.201	22.237	VV	6884	115374	2.63%	0.074%	
476	22.243	22.237	22.253	VV	3062	20965	0.48%	0.013%	
477	22.257	22.253	22.279	VV	1732	13382	0.31%	0.009%	
Sum of corrected areas:					155541623				

Instrument :
FID_F
ClientSampleId :
WASTEMS

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 03/13/2025

FF030325.M Thu Mar 13 03:03:24 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	WASTEMSD	SDG No.:	Q1542
Lab Sample ID:	Q1542-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	85.3
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
FF015661.D	1	03/12/25 08:40	03/12/25 14:26	PB167095

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
PHC	Petroleum Hydrocarbons	50000		372	1660	3320	ug/kg
SURROGATES							
16416-32-3	TETRACOSANE-d50	13.2		37 - 130		66%	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_F\Data\FF031225\
 Data File : FF015661.D
 Signal(s) : FID2B.ch
 Acq On : 12 Mar 2025 14:26
 Operator : YP\AJ
 Sample : Q1542-01MSD
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WASTEMSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 03/13/2025
 Supervised By :Ankita Jodhani 03/13/2025

Integration File: autoint1.e
 Quant Time: Mar 13 02:30:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
 Quant Title :
 QLast Update : Mon Mar 03 14:28:15 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...	15.026	1575186	13.211 ug/ml
Target Compounds			
1) N-OCTANE	2.028	1645734	14.098 ug/ml
2) N-DECANE	4.566	1986092	17.323 ug/ml
3) N-DODECANE	6.734	2171348	18.210 ug/ml
4) N-TETRADECANE	8.561	2192215	18.603 ug/ml
5) N-HEXADECANE	10.169	2265328	18.758 ug/ml
6) N-OCTADECANE	11.614	2449528	19.175 ug/ml
7) N-EICOSANE	12.925	2453770	19.063 ug/ml
8) N-DOCOSANE	14.126	2417389	18.670 ug/ml
10) N-TETRACOSANE	15.226	4217686	32.121 ug/ml
11) N-HEXACOSANE	16.254	2444043	18.942 ug/ml
12) N-OCTACOSANE	17.205	2846396	22.232 ug/ml
13) N-TRIACONTANE	18.094	2475059	19.382 ug/ml
14) N-DOTRIACONTANE	18.927	2560916	20.522 ug/ml
15) N-TETRATRIACONTANE	19.712	1195426	10.436 ug/ml
16) N-HEXATRIACONTANE	20.453	817731	8.128 ug/mlm
17) N-OCTATRIACONTANE	21.192	823661	8.931 ug/ml
18) N-TETRACONTANE	22.108	1019736	12.007 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF031225\
Data File : FF015661.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 14:26
Operator : YP\AJ
Sample : Q1542-01MSD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :

FID_F

Client SampleId :

WASTEMSD

Manual Integrations

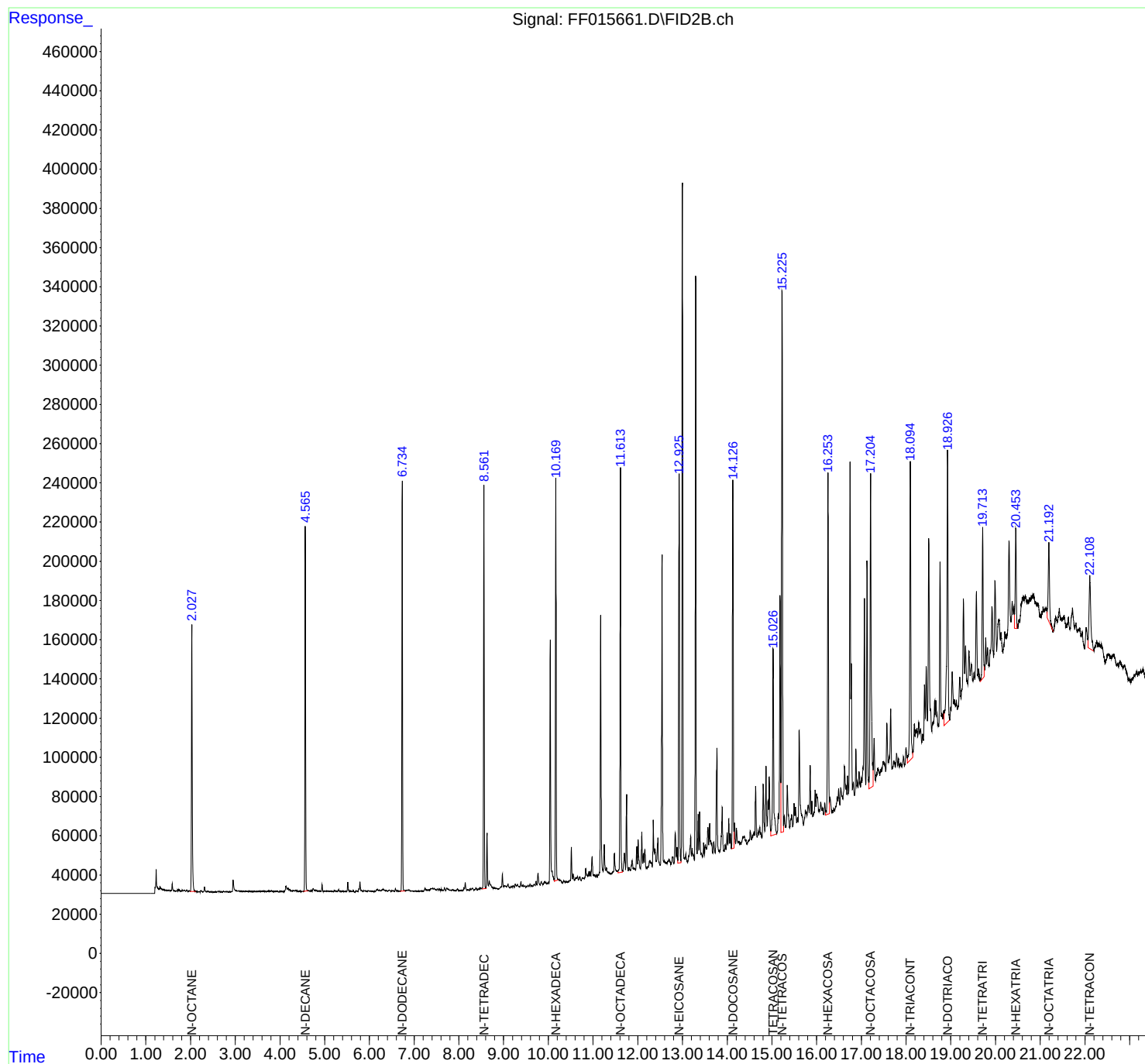
APPROVED

Reviewed By :Yogesh Patel 03/13/2025

Supervised By :Ankita Jodhani 03/13/2025

Integration File: autoint1.e
Quant Time: Mar 13 02:30:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Quant Title :
QLast Update : Mon Mar 03 14:28:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rters

Instrument :
FID_F
ClientSampleId :
WASTEMSD
Area Percent Report
Manual IntegrationsAPPROVED
Reviewed By :Yogesh Patel 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF03122
Data File : FF015661.D
Signal(s) : FID2B.ch
Acq On : 12 Mar 2025 14:26
Sample : Q1542-01MSD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF030325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.915	1.900	1.934	BV	462	4355	0.10%	0.003%
2	1.966	1.934	1.996	PV	549	6720	0.16%	0.004%
3	2.028	1.996	2.102	PV	136115	1652365	39.14%	1.081%
4	2.109	2.102	2.153	VV	311	5212	0.12%	0.003%
5	2.156	2.153	2.168	VV	112	538	0.01%	0.000%
6	2.173	2.168	2.191	VV	114	803	0.02%	0.001%
7	2.196	2.191	2.216	VV	64	549	0.01%	0.000%
8	2.231	2.216	2.270	PV	731	11369	0.27%	0.007%
9	2.275	2.270	2.291	VV	112	1221	0.03%	0.001%
10	2.311	2.291	2.349	VV	2563	31445	0.74%	0.021%
11	2.360	2.349	2.381	VV	269	3749	0.09%	0.002%
12	2.385	2.381	2.396	VV	224	1809	0.04%	0.001%
13	2.400	2.396	2.428	VV	231	2076	0.05%	0.001%
14	2.446	2.428	2.464	VV	161	1715	0.04%	0.001%
15	2.478	2.464	2.501	VV	126	1723	0.04%	0.001%
16	2.511	2.501	2.519	VV	197	959	0.02%	0.001%
17	2.535	2.519	2.542	PV	153	1299	0.03%	0.001%
18	2.544	2.542	2.553	VV	154	743	0.02%	0.000%
19	2.561	2.553	2.572	VV	189	1362	0.03%	0.001%
20	2.576	2.572	2.583	VV	131	619	0.01%	0.000%
21	2.593	2.583	2.598	VV	147	884	0.02%	0.001%
22	2.620	2.598	2.680	VV	575	12443	0.29%	0.008%
23	2.684	2.680	2.710	VV	143	1576	0.04%	0.001%
24	2.737	2.710	2.765	PV	460	9461	0.22%	0.006%
25	2.769	2.765	2.788	VV	250	2489	0.06%	0.002%
26	2.805	2.788	2.819	VV	310	4190	0.10%	0.003%
27	2.829	2.819	2.834	VV	261	1792	0.04%	0.001%
28	2.850	2.834	2.865	VV	263	3024	0.07%	0.002%
29	2.868	2.865	2.917	VV	217	5059	0.12%	0.003%
30	2.952	2.917	3.021	VV	6289	117671	2.79%	0.077%
31	3.034	3.021	3.050	VV	778	11730	0.28%	0.008%
32	3.053	3.050	3.153	VV	647	28958	0.69%	0.019%
33	3.165	3.153	3.171	VV	392	3804	0.09%	0.002%
34	3.175	3.171	3.201	VV	457	6566	0.16%	0.004%
35	3.204	3.201	3.208	VV	303	1400	0.03%	0.001%
36	3.214	3.208	3.218	VV	420	2052	0.05%	0.001%

					retention			
37	3.237	3.218	3.247	VV	460	6919	0.16%	0.005%
38	3.252	3.247	3.286	VV	407	7112		
39	3.309	3.286	3.375	VV	550	17458		
40	3.379	3.375	3.387	VV	350	2016		
41	3.390	3.387	3.402	VV	334	2470		
42	3.433	3.402	3.474	VV	451	13474		
43	3.484	3.474	3.488	VV	290	2160	0.05%	0.001%
44	3.515	3.488	3.528	VV	404	7689	0.18%	0.005%
45	3.532	3.528	3.553	VV	365	4716	0.11%	0.003%
46	3.556	3.553	3.564	VV	381	2140	0.05%	0.001%
47	3.596	3.564	3.641	VV	542	16897	0.40%	0.011%
48	3.664	3.641	3.691	VV	649	12317	0.29%	0.008%
49	3.714	3.691	3.721	VV	403	5343	0.13%	0.003%
50	3.733	3.721	3.743	VV	366	4492	0.11%	0.003%
51	3.771	3.743	3.779	VV	540	9922	0.23%	0.006%
52	3.810	3.779	3.856	VV	669	21219	0.50%	0.014%
53	3.860	3.856	3.888	VV	352	5373	0.13%	0.004%
54	3.907	3.888	3.927	VV	403	7496	0.18%	0.005%
55	3.940	3.927	3.978	VV	391	7604	0.18%	0.005%
56	3.999	3.978	4.015	VV	289	5092	0.12%	0.003%
57	4.032	4.015	4.068	VV	416	9351	0.22%	0.006%
58	4.073	4.068	4.079	VV	220	1237	0.03%	0.001%
59	4.081	4.079	4.089	VV	235	1110	0.03%	0.001%
60	4.135	4.089	4.165	VV	3104	67177	1.59%	0.044%
61	4.179	4.165	4.275	VV	2065	69556	1.65%	0.046%
62	4.294	4.275	4.308	VV	795	12186	0.29%	0.008%
63	4.311	4.308	4.325	VV	600	4795	0.11%	0.003%
64	4.348	4.325	4.374	VV	860	18434	0.44%	0.012%
65	4.386	4.374	4.412	VV	578	10558	0.25%	0.007%
66	4.420	4.412	4.427	VV	350	2835	0.07%	0.002%
67	4.434	4.427	4.457	VV	355	5666	0.13%	0.004%
68	4.458	4.457	4.485	VV	376	4344	0.10%	0.003%
69	4.489	4.485	4.492	VV	263	988	0.02%	0.001%
70	4.496	4.492	4.499	VV	267	1015	0.02%	0.001%
71	4.512	4.499	4.526	VV	341	4629	0.11%	0.003%
72	4.533	4.526	4.537	VV	304	1614	0.04%	0.001%
73	4.566	4.537	4.635	VV	186493	2013379	47.69%	1.317%
74	4.648	4.635	4.668	VV	632	10700	0.25%	0.007%
75	4.690	4.668	4.706	VV	644	11675	0.28%	0.008%
76	4.710	4.706	4.717	VV	405	2583	0.06%	0.002%
77	4.741	4.717	4.775	VV	1798	37973	0.90%	0.025%
78	4.785	4.775	4.804	VV	836	12180	0.29%	0.008%
79	4.809	4.804	4.839	VV	648	11723	0.28%	0.008%
80	4.851	4.839	4.870	VV	546	8865	0.21%	0.006%
81	4.882	4.870	4.916	VV	511	10663	0.25%	0.007%
82	4.942	4.916	4.975	VV	3744	45780	1.08%	0.030%
83	4.989	4.975	4.996	VV	419	4446	0.11%	0.003%
84	5.000	4.996	5.007	VV	394	2424	0.06%	0.002%
85	5.032	5.007	5.059	VV	473	12136	0.29%	0.008%
86	5.076	5.059	5.097	VV	445	8159	0.19%	0.005%
87	5.121	5.097	5.140	VV	432	8633	0.20%	0.006%
88	5.154	5.140	5.171	VV	431	5478	0.13%	0.004%
89	5.180	5.171	5.195	VV	180	2346	0.06%	0.002%

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WASTEMSD

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					rters			
90	5.199	5.195	5.203	VV	187	727	0.02%	0.000%
91	5.225	5.203	5.250	VV	531	10862		
92	5.253	5.250	5.262	VV	338	1851		
93	5.274	5.262	5.280	VV	326	3026		
94	5.310	5.280	5.352	VV	1121	21451		
95	5.360	5.352	5.372	VV	397	3555		
96	5.386	5.372	5.409	VV	322	6060	0.14%	0.004%
97	5.414	5.409	5.429	VV	270	2424	0.06%	0.002%
98	5.442	5.429	5.466	VV	228	2995	0.07%	0.002%
99	5.485	5.466	5.494	VV	204	2230	0.05%	0.001%
100	5.517	5.494	5.614	VV	4943	70258	1.66%	0.046%
101	5.640	5.614	5.682	VV	551	6246	0.15%	0.004%
102	5.707	5.682	5.747	PV	546	9762	0.23%	0.006%
103	5.764	5.747	5.770	VV	1374	13307	0.32%	0.009%
104	5.789	5.770	5.820	VV	5011	65617	1.55%	0.043%
105	5.824	5.820	5.862	VV	672	11763	0.28%	0.008%
106	5.866	5.862	5.879	VV	427	3835	0.09%	0.003%
107	5.883	5.879	5.887	VV	394	1928	0.05%	0.001%
108	5.903	5.887	5.927	VV	489	8656	0.21%	0.006%
109	5.932	5.927	5.945	VV	281	2654	0.06%	0.002%
110	5.971	5.945	5.986	VV	527	8867	0.21%	0.006%
111	5.998	5.986	6.047	VV	413	11054	0.26%	0.007%
112	6.052	6.047	6.064	VV	159	1672	0.04%	0.001%
113	6.073	6.064	6.087	VV	223	2316	0.05%	0.002%
114	6.092	6.087	6.103	VV	170	1145	0.03%	0.001%
115	6.108	6.103	6.117	VV	134	620	0.01%	0.000%
116	6.120	6.117	6.129	VV	77	265	0.01%	0.000%
117	6.176	6.129	6.206	PV	1066	32038	0.76%	0.021%
118	6.223	6.206	6.252	VV	758	17090	0.40%	0.011%
119	6.258	6.252	6.264	VV	491	3268	0.08%	0.002%
120	6.276	6.264	6.281	VV	796	7164	0.17%	0.005%
121	6.309	6.281	6.407	VV	1282	52616	1.25%	0.034%
122	6.448	6.407	6.488	VV	914	23252	0.55%	0.015%
123	6.506	6.488	6.517	VV	440	5953	0.14%	0.004%
124	6.531	6.517	6.562	VV	480	8180	0.19%	0.005%
125	6.582	6.562	6.612	VV	1553	22188	0.53%	0.015%
126	6.624	6.612	6.658	VV	431	7742	0.18%	0.005%
127	6.668	6.658	6.682	VV	255	2724	0.06%	0.002%
128	6.698	6.682	6.705	VV	334	3535	0.08%	0.002%
129	6.734	6.705	6.799	VV	209232	2184572	51.74%	1.429%
130	6.844	6.799	6.871	VV	752	24168	0.57%	0.016%
131	6.887	6.871	6.911	VV	907	15331	0.36%	0.010%
132	6.923	6.911	6.940	VV	432	6309	0.15%	0.004%
133	6.947	6.940	6.983	VV	337	6090	0.14%	0.004%
134	6.995	6.983	7.012	VV	288	3835	0.09%	0.003%
135	7.023	7.012	7.054	VV	346	4923	0.12%	0.003%
136	7.065	7.054	7.091	VV	213	3313	0.08%	0.002%
137	7.103	7.091	7.115	VV	178	1446	0.03%	0.001%
138	7.144	7.115	7.169	PV	302	5625	0.13%	0.004%
139	7.199	7.169	7.215	VV	277	5223	0.12%	0.003%
140	7.241	7.215	7.294	VV	1536	38680	0.92%	0.025%
141	7.308	7.294	7.339	VV	861	17552	0.42%	0.011%

Instrument :

FID_F

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WASTEMSD

0.02% 0.000%

Manual IntegrationsAPPROVED

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142	7.370	7.339	7.403	VV	1426	43637	1.03%	0.029%
143	7.409	7.403	7.436	VV	1417	23541		
144	7.453	7.436	7.500	VV	1526	37542		
145	7.518	7.500	7.541	VV	1238	21223		
146	7.557	7.541	7.574	VV	1062	15991		
147	7.580	7.574	7.616	VV	676	13447		
148	7.630	7.616	7.644	VV	476	6748	0.16%	0.004%
149	7.680	7.644	7.711	VV	1654	29341	0.69%	0.019%
150	7.730	7.711	7.800	VV	1441	42792	1.01%	0.028%
151	7.812	7.800	7.838	VV	442	7953	0.19%	0.005%
152	7.855	7.838	7.909	VV	584	12913	0.31%	0.008%
153	7.915	7.909	7.930	VV	138	1343	0.03%	0.001%
154	7.969	7.930	8.007	VV	1065	17757	0.42%	0.012%
155	8.019	8.007	8.032	VV	233	2371	0.06%	0.002%
156	8.056	8.032	8.074	VV	222	2761	0.07%	0.002%
157	8.114	8.074	8.125	PV	1108	15277	0.36%	0.010%
158	8.145	8.125	8.190	VV	4063	56941	1.35%	0.037%
159	8.209	8.190	8.230	VV	329	4446	0.11%	0.003%
160	8.254	8.230	8.272	VV	945	11134	0.26%	0.007%
161	8.311	8.272	8.340	VV	1041	23600	0.56%	0.015%
162	8.351	8.340	8.360	VV	248	1859	0.04%	0.001%
163	8.382	8.360	8.409	VV	1245	17062	0.40%	0.011%
164	8.420	8.409	8.428	VV	453	4031	0.10%	0.003%
165	8.465	8.428	8.480	VV	995	19254	0.46%	0.013%
166	8.494	8.480	8.510	VV	1156	14396	0.34%	0.009%
167	8.561	8.510	8.607	VV	206490	2224337	52.68%	1.455%
168	8.631	8.607	8.663	VV	28876	335027	7.93%	0.219%
169	8.682	8.663	8.741	VV	4322	117870	2.79%	0.077%
170	8.747	8.741	8.767	VV	1139	14615	0.35%	0.010%
171	8.779	8.767	8.845	VV	840	26989	0.64%	0.018%
172	8.852	8.845	8.877	VV	313	3501	0.08%	0.002%
173	8.942	8.877	8.946	PV	984	18915	0.45%	0.012%
174	8.951	8.946	8.953	VV	1070	4302	0.10%	0.003%
175	8.975	8.953	9.007	VV	7529	102626	2.43%	0.067%
176	9.021	9.007	9.032	VV	1637	21260	0.50%	0.014%
177	9.038	9.032	9.067	VV	1432	24944	0.59%	0.016%
178	9.101	9.067	9.140	VV	2291	50652	1.20%	0.033%
179	9.160	9.140	9.170	VV	761	10108	0.24%	0.007%
180	9.187	9.170	9.203	VV	1073	15535	0.37%	0.010%
181	9.218	9.203	9.239	VV	1358	19771	0.47%	0.013%
182	9.261	9.239	9.287	VV	1976	36558	0.87%	0.024%
183	9.289	9.287	9.292	VV	1113	2952	0.07%	0.002%
184	9.310	9.292	9.348	VV	1805	37054	0.88%	0.024%
185	9.357	9.348	9.366	VV	502	5163	0.12%	0.003%
186	9.388	9.366	9.415	VV	2919	40496	0.96%	0.026%
187	9.433	9.415	9.462	VV	1320	21753	0.52%	0.014%
188	9.477	9.462	9.502	VV	770	10932	0.26%	0.007%
189	9.545	9.502	9.562	PV	886	13381	0.32%	0.009%
190	9.595	9.562	9.612	VV	1316	20857	0.49%	0.014%
191	9.628	9.612	9.650	VV	489	7232	0.17%	0.005%
192	9.681	9.650	9.707	VV	1024	18578	0.44%	0.012%
193	9.725	9.707	9.744	VV	2447	28750	0.68%	0.019%
194	9.770	9.744	9.819	VV	6330	108227	2.56%	0.071%

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195	9.845	9.819	9.877	VV	1958	36709	0.87%	0.024%
196	9.920	9.877	9.935	VV	1906	41300		
197	9.948	9.935	9.964	VV	1467	17435		
198	9.981	9.964	9.989	VV	775	8784		
199	10.008	9.989	10.020	VV	1363	17227		
200	10.045	10.020	10.077	VV	124997	1424094	33	
201	10.085	10.077	10.140	VV	6590	151750	3.59%	0.099%
202	10.169	10.140	10.216	VV	206333	2336118	55.33%	1.528%
203	10.226	10.216	10.267	VV	2239	52003	1.23%	0.034%
204	10.277	10.267	10.318	VV	1546	23697	0.56%	0.016%
205	10.348	10.318	10.380	VV	878	18350	0.43%	0.012%
206	10.406	10.380	10.430	VV	392	5781	0.14%	0.004%
207	10.447	10.430	10.460	VV	373	3020	0.07%	0.002%
208	10.483	10.460	10.491	PV	663	8585	0.20%	0.006%
209	10.517	10.491	10.539	VV	17550	201447	4.77%	0.132%
210	10.558	10.539	10.582	VV	3754	58845	1.39%	0.038%
211	10.615	10.582	10.634	VV	1746	40432	0.96%	0.026%
212	10.655	10.634	10.679	VV	2077	35964	0.85%	0.024%
213	10.700	10.679	10.737	VV	1937	34350	0.81%	0.022%
214	10.768	10.737	10.786	PV	1388	24322	0.58%	0.016%
215	10.794	10.786	10.804	VV	949	8630	0.20%	0.006%
216	10.837	10.804	10.861	VV	5688	97224	2.30%	0.064%
217	10.866	10.861	10.886	VV	2527	28736	0.68%	0.019%
218	10.907	10.886	10.923	VV	3788	55306	1.31%	0.036%
219	10.938	10.923	10.953	VV	3673	43690	1.03%	0.029%
220	10.980	10.953	11.013	VV	11088	187303	4.44%	0.123%
221	11.025	11.013	11.060	VV	1587	32925	0.78%	0.022%
222	11.075	11.060	11.092	VV	1369	15294	0.36%	0.010%
223	11.115	11.092	11.122	VV	1227	15569	0.37%	0.010%
224	11.172	11.122	11.229	VV	133589	1694082	40.12%	1.108%
225	11.252	11.229	11.285	VV	16204	249577	5.91%	0.163%
226	11.300	11.285	11.375	VV	4034	114766	2.72%	0.075%
227	11.390	11.375	11.405	VV	1097	15133	0.36%	0.010%
228	11.420	11.405	11.426	VV	1017	9817	0.23%	0.006%
229	11.445	11.426	11.456	VV	1689	24348	0.58%	0.016%
230	11.479	11.456	11.531	VV	10805	191591	4.54%	0.125%
231	11.542	11.531	11.557	VV	1701	23995	0.57%	0.016%
232	11.614	11.557	11.661	VV	206762	2484146	58.84%	1.625%
233	11.703	11.661	11.729	VV	10030	197529	4.68%	0.129%
234	11.750	11.729	11.789	VV	39846	475289	11.26%	0.311%
235	11.809	11.789	11.840	VV	2377	40172	0.95%	0.026%
236	11.876	11.840	11.902	VV	5600	105527	2.50%	0.069%
237	11.908	11.902	11.924	VV	1433	16887	0.40%	0.011%
238	11.928	11.924	11.954	VV	1264	14786	0.35%	0.010%
239	11.978	11.954	11.993	VV	12327	142159	3.37%	0.093%
240	12.010	11.993	12.064	VV	15681	245613	5.82%	0.161%
241	12.092	12.064	12.112	VV	19316	252821	5.99%	0.165%
242	12.127	12.112	12.143	VV	8034	104800	2.48%	0.069%
243	12.159	12.143	12.198	VV	9888	136423	3.23%	0.089%
244	12.203	12.198	12.205	VV	437	1667	0.04%	0.001%
245	12.225	12.205	12.237	VV	1001	14108	0.33%	0.009%
246	12.267	12.237	12.274	VV	3741	54905	1.30%	0.036%

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247	12.280	12.274	12.294	VV	3594	37675	0.89%	0.025%
248	12.304	12.294	12.326	VV	2718	37427	0.73%	0.025%
249	12.348	12.326	12.369	VV	24381	310777	7.69%	0.025%
250	12.384	12.369	12.412	VV	9521	171827	2.76%	0.025%
251	12.449	12.412	12.499	VV	14892	280409	4.37%	0.025%
252	12.544	12.499	12.583	VV	158539	2022895	47.03%	0.025%
253	12.595	12.583	12.615	VV	2523	37828	0.90%	0.025%
254	12.626	12.615	12.631	VV	1379	12359	0.29%	0.008%
255	12.647	12.631	12.659	VV	1332	21071	0.50%	0.014%
256	12.680	12.659	12.686	VV	2030	27496	0.65%	0.018%
257	12.701	12.686	12.737	VV	2876	56910	1.35%	0.037%
258	12.774	12.737	12.779	VV	3714	42145	1.00%	0.028%
259	12.786	12.779	12.808	VV	3581	39694	0.94%	0.026%
260	12.839	12.808	12.862	VV	15707	228099	5.40%	0.149%
261	12.879	12.862	12.896	VV	8282	108815	2.58%	0.071%
262	12.925	12.896	12.967	VV	198648	2457424	58.20%	1.608%
263	12.998	12.967	13.054	VV	345481	4157549	98.47%	2.720%
264	13.074	13.054	13.114	VV	4294	67452	1.60%	0.044%
265	13.184	13.114	13.202	VV	12679	257849	6.11%	0.169%
266	13.218	13.202	13.266	VV	6288	123638	2.93%	0.081%
267	13.296	13.266	13.329	PV	297018	3353024	79.41%	2.193%
268	13.351	13.329	13.368	VV	22965	279296	6.61%	0.183%
269	13.385	13.368	13.410	VV	23963	297883	7.06%	0.195%
270	13.422	13.410	13.439	VV	2518	33721	0.80%	0.022%
271	13.445	13.439	13.447	VV	979	4208	0.10%	0.003%
272	13.473	13.447	13.490	VV	7595	91667	2.17%	0.060%
273	13.510	13.490	13.532	VV	6081	112022	2.65%	0.073%
274	13.568	13.532	13.589	VV	14656	289519	6.86%	0.189%
275	13.607	13.589	13.624	VV	16564	232976	5.52%	0.152%
276	13.631	13.624	13.643	VV	7776	79635	1.89%	0.052%
277	13.651	13.643	13.676	VV	6293	80182	1.90%	0.052%
278	13.698	13.676	13.731	VV	6214	97838	2.32%	0.064%
279	13.769	13.731	13.807	VV	53803	788474	18.67%	0.516%
280	13.813	13.807	13.820	VV	1246	8578	0.20%	0.006%
281	13.824	13.820	13.833	VV	1161	6648	0.16%	0.004%
282	13.888	13.833	13.917	VV	22711	411270	9.74%	0.269%
283	13.922	13.917	13.928	VV	446	2297	0.05%	0.002%
284	13.953	13.928	13.973	VV	3197	40568	0.96%	0.027%
285	13.996	13.973	14.014	VV	8931	117393	2.78%	0.077%
286	14.035	14.014	14.057	VV	16037	222033	5.26%	0.145%
287	14.071	14.057	14.094	VV	8016	95058	2.25%	0.062%
288	14.126	14.094	14.152	VV	188138	2423043	57.39%	1.585%
289	14.163	14.152	14.188	VV	12960	173689	4.11%	0.114%
290	14.206	14.188	14.252	VV	9720	181491	4.30%	0.119%
291	14.263	14.252	14.280	VV	2514	34163	0.81%	0.022%
292	14.291	14.280	14.304	VV	2003	24144	0.57%	0.016%
293	14.380	14.304	14.412	VV	4448	202285	4.79%	0.132%
294	14.420	14.412	14.440	VV	2614	22264	0.53%	0.015%
295	14.446	14.440	14.449	PV	389	1080	0.03%	0.001%
296	14.484	14.449	14.489	VV	1776	29753	0.70%	0.019%
297	14.515	14.489	14.542	VV	6347	109760	2.60%	0.072%
298	14.598	14.542	14.612	VV	5144	144715	3.43%	0.095%
299	14.634	14.612	14.668	VV	28063	385981	9.14%	0.252%

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300	14.690	14.668	14.709	VV	5052	83321	1.97%	0.055%
301	14.727	14.709	14.774	VV	6669	140570		
302	14.804	14.774	14.841	VV	27958	456905	10.00%	0.055%
303	14.867	14.841	14.892	VV	36497	552215	13.00%	0.055%
304	14.913	14.892	14.923	VV	18511	242439	5.00%	0.055%
305	14.939	14.923	14.975	VV	30502	459171	10.00%	0.055%
306	15.026	14.975	15.105	VV	95012	1588896	37.63%	1.039%
307	15.141	15.105	15.153	VV	9953	131935	3.12%	0.086%
308	15.180	15.153	15.201	VV	121095	1644113	38.94%	1.076%
309	15.226	15.201	15.260	VV	276853	4222186	100.00%	2.762%
310	15.279	15.260	15.301	VV	7856	122589	2.90%	0.080%
311	15.342	15.301	15.397	VV	23033	481011	11.39%	0.315%
312	15.439	15.397	15.466	VV	7503	173136	4.10%	0.113%
313	15.494	15.466	15.511	VV	12792	194324	4.60%	0.127%
314	15.525	15.511	15.553	VV	10637	177259	4.20%	0.116%
315	15.569	15.553	15.584	VV	4821	68337	1.62%	0.045%
316	15.610	15.584	15.665	VV	48948	870998	20.63%	0.570%
317	15.670	15.665	15.704	VV	5402	73529	1.74%	0.048%
318	15.750	15.704	15.763	PV	7257	135536	3.21%	0.089%
319	15.771	15.763	15.785	VV	5889	69968	1.66%	0.046%
320	15.808	15.785	15.833	VV	9108	209141	4.95%	0.137%
321	15.854	15.833	15.877	VV	29029	397165	9.41%	0.260%
322	15.893	15.877	15.914	VV	10250	136225	3.23%	0.089%
323	15.965	15.914	15.982	VV	15216	283125	6.71%	0.185%
324	15.997	15.982	16.010	VV	13159	180983	4.29%	0.118%
325	16.014	16.010	16.045	VV	11435	173822	4.12%	0.114%
326	16.050	16.045	16.067	VV	4328	51547	1.22%	0.034%
327	16.091	16.067	16.115	VV	7788	159162	3.77%	0.104%
328	16.131	16.115	16.159	VV	4727	83644	1.98%	0.055%
329	16.182	16.159	16.209	VV	6520	100337	2.38%	0.066%
330	16.254	16.209	16.285	VV	173884	2446469	57.94%	1.600%
331	16.297	16.285	16.340	VV	8439	161727	3.83%	0.106%
332	16.353	16.340	16.368	VV	1061	9948	0.24%	0.007%
333	16.387	16.368	16.404	PV	1829	22321	0.53%	0.015%
334	16.462	16.404	16.473	VV	6661	136335	3.23%	0.089%
335	16.490	16.473	16.518	VV	10566	158429	3.75%	0.104%
336	16.539	16.518	16.584	VV	10001	242833	5.75%	0.159%
337	16.624	16.584	16.647	VV	19670	410348	9.72%	0.268%
338	16.660	16.647	16.674	VV	9503	128282	3.04%	0.084%
339	16.691	16.674	16.710	VV	14110	198140	4.69%	0.130%
340	16.746	16.710	16.764	VV	173029	2439186	57.77%	1.596%
341	16.774	16.764	16.800	VV	70119	847693	20.08%	0.555%
342	16.820	16.800	16.844	VV	8897	155709	3.69%	0.102%
343	16.877	16.844	16.899	VV	24958	365294	8.65%	0.239%
344	16.909	16.899	16.925	VV	7862	104069	2.46%	0.068%
345	16.948	16.925	16.981	VV	12550	274069	6.49%	0.179%
346	17.000	16.981	17.013	VV	8710	129711	3.07%	0.085%
347	17.067	17.013	17.097	VV	99122	1574745	37.30%	1.030%
348	17.126	17.097	17.169	VV	117305	1624248	38.47%	1.063%
349	17.205	17.169	17.263	VV	161137	2887301	68.38%	1.889%
350	17.284	17.263	17.315	VV	24890	400381	9.48%	0.262%
351	17.371	17.315	17.412	VV	8554	348068	8.24%	0.228%

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352	17.436	17.412	17.453	VV	6770	145348	3.44%	0.095%
353	17.486	17.453	17.505	VV	10107	259786		
354	17.511	17.505	17.515	VV	9266	49022		
355	17.517	17.515	17.543	VV	8856	118853		
356	17.569	17.543	17.606	VV	28672	557128	13.44%	0.156%
357	17.654	17.606	17.684	VV	34349	710138	16.76%	0.132%
358	17.730	17.684	17.762	VV	6953	238412	5.65%	0.156%
359	17.787	17.762	17.812	VV	10190	201175	4.76%	0.132%
360	17.826	17.812	17.850	VV	6879	107426	2.54%	0.070%
361	17.868	17.850	17.885	VV	3658	64324	1.52%	0.042%
362	17.890	17.885	17.904	VV	3025	26019	0.62%	0.017%
363	17.941	17.904	17.966	VV	6339	133428	3.16%	0.087%
364	17.998	17.966	18.025	VV	10095	198339	4.70%	0.130%
365	18.094	18.025	18.152	VV	154151	2656588	62.92%	1.738%
366	18.186	18.152	18.200	VV	19207	370050	8.76%	0.242%
367	18.217	18.200	18.233	VV	16237	284089	6.73%	0.186%
368	18.242	18.233	18.258	VV	16394	221036	5.24%	0.145%
369	18.282	18.258	18.308	VV	18599	454578	10.77%	0.297%
370	18.325	18.308	18.351	VV	14449	313060	7.41%	0.205%
371	18.369	18.351	18.387	VV	11669	211611	5.01%	0.138%
372	18.411	18.387	18.429	VV	36057	568552	13.47%	0.372%
373	18.450	18.429	18.476	VV	44899	841548	19.93%	0.551%
374	18.506	18.476	18.570	VV	109423	2403097	56.92%	1.572%
375	18.601	18.570	18.612	VV	14560	334548	7.92%	0.219%
376	18.638	18.612	18.652	VV	24761	467108	11.06%	0.306%
377	18.667	18.652	18.716	VV	24572	674412	15.97%	0.441%
378	18.725	18.716	18.730	VV	11074	91555	2.17%	0.060%
379	18.758	18.730	18.792	VV	93952	1518610	35.97%	0.993%
380	18.799	18.792	18.820	VV	16400	255397	6.05%	0.167%
381	18.840	18.820	18.850	VV	17318	278803	6.60%	0.182%
382	18.927	18.850	18.977	VV	148939	3301628	78.20%	2.160%
383	18.997	18.977	19.005	VV	16765	238285	5.64%	0.156%
384	19.030	19.005	19.068	VV	34042	893238	21.16%	0.584%
385	19.077	19.068	19.109	VV	19151	430789	10.20%	0.282%
386	19.126	19.109	19.145	VV	18057	348305	8.25%	0.228%
387	19.199	19.145	19.232	VV	29159	1025510	24.29%	0.671%
388	19.246	19.232	19.250	VV	22307	226339	5.36%	0.148%
389	19.282	19.250	19.310	VV	67626	1516443	35.92%	0.992%
390	19.328	19.310	19.378	VV	43034	1275974	30.22%	0.835%
391	19.403	19.378	19.431	VV	39764	995857	23.59%	0.651%
392	19.458	19.431	19.487	VV	31817	973150	23.05%	0.637%
393	19.520	19.487	19.538	VV	26870	743783	17.62%	0.487%
394	19.571	19.538	19.609	VV	67344	1702909	40.33%	1.114%
395	19.621	19.609	19.660	VV	27347	739326	17.51%	0.484%
396	19.712	19.660	19.747	VV	97956	2286938	54.16%	1.496%
397	19.750	19.747	19.762	VV	27124	229749	5.44%	0.150%
398	19.781	19.762	19.799	VV	40822	746472	17.68%	0.488%
399	19.819	19.799	19.860	VV	35078	1068530	25.31%	0.699%
400	19.878	19.860	19.885	VV	33097	470677	11.15%	0.308%
401	19.921	19.885	19.955	VV	54736	1669036	39.53%	1.092%
402	19.989	19.955	20.026	VV	66796	1932138	45.76%	1.264%
403	20.069	20.026	20.108	VV	46209	2002117	47.42%	1.310%
404	20.121	20.108	20.165	VV	38997	1139758	26.99%	0.746%

Instrument :

FID_F

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

						Instrument : FID_F ClientSampleId : WASTEMSD		
rteres						Manual IntegrationsAPPROVED		
405	20.207	20.165	20.224	VV	38110	1174453	27.82%	0.768%
406	20.231	20.224	20.238	VV	36073	304628	7.54%	0.229%
407	20.244	20.238	20.249	VV	35646	216788	5.94%	0.182%
408	20.259	20.249	20.263	VV	36467	308343	7.24%	0.222%
409	20.303	20.263	20.346	VV	82820	2733834	64.32%	1.968%
410	20.372	20.346	20.392	VV	51205	1259092	29.12%	0.897%
411	20.408	20.392	20.423	VV	47854	854562	20.24%	0.559%
412	20.454	20.423	20.499	VV	87318	2490388	58.98%	1.629%
413	20.528	20.499	20.536	VV	39416	838381	19.86%	0.548%
414	20.541	20.536	20.547	VV	39330	257329	6.09%	0.168%
415	20.602	20.547	20.619	VV	49852	1999626	47.36%	1.308%
416	20.623	20.619	20.627	VV	49695	238187	5.64%	0.156%
417	20.632	20.627	20.639	VV	50348	350543	8.30%	0.229%
418	20.667	20.639	20.703	VV	49802	1845721	43.71%	1.207%
419	20.709	20.703	20.715	VV	46586	351964	8.34%	0.230%
420	20.720	20.715	20.735	VV	46956	554743	13.14%	0.363%
421	20.760	20.735	20.767	VV	47514	869926	20.60%	0.569%
422	20.773	20.767	20.785	VV	46781	508809	12.05%	0.333%
423	20.813	20.785	20.829	VV	47827	1223100	28.97%	0.800%
424	20.835	20.829	20.852	VV	47713	659429	15.62%	0.431%
425	20.857	20.852	20.884	VV	48497	866010	20.51%	0.567%
426	20.890	20.884	20.905	VV	43750	560497	13.28%	0.367%
427	20.911	20.905	20.926	VV	43040	508684	12.05%	0.333%
428	20.937	20.926	20.959	VV	42311	842697	19.96%	0.551%
429	20.963	20.959	20.987	VV	40889	628914	14.90%	0.411%
430	20.993	20.987	21.000	VV	35560	265437	6.29%	0.174%
431	21.008	21.000	21.017	VV	34753	345731	8.19%	0.226%
432	21.025	21.017	21.028	VV	35472	242158	5.74%	0.158%
433	21.035	21.028	21.044	VV	36786	332822	7.88%	0.218%
434	21.063	21.044	21.092	VV	38382	1062182	25.16%	0.695%
435	21.112	21.092	21.119	VV	37289	587336	13.91%	0.384%
436	21.130	21.119	21.139	VV	37234	432832	10.25%	0.283%
437	21.143	21.139	21.152	VV	36580	291632	6.91%	0.191%
438	21.192	21.152	21.282	VV	69672	2984923	70.70%	1.953%
439	21.288	21.282	21.293	VV	23900	160195	3.79%	0.105%
440	21.350	21.293	21.389	VV	29326	1524235	36.10%	0.997%
441	21.425	21.389	21.459	VV	32442	1218490	28.86%	0.797%
442	21.467	21.459	21.476	VV	27031	276500	6.55%	0.181%
443	21.481	21.476	21.487	VV	26787	166846	3.95%	0.109%
444	21.494	21.487	21.501	VV	27039	231502	5.48%	0.151%
445	21.507	21.501	21.513	VV	26853	185483	4.39%	0.121%
446	21.535	21.513	21.541	VV	27459	446017	10.56%	0.292%
447	21.545	21.541	21.568	VV	26352	384408	9.10%	0.251%
448	21.573	21.568	21.576	VV	21632	104615	2.48%	0.068%
449	21.588	21.576	21.594	VV	21780	227999	5.40%	0.149%
450	21.631	21.594	21.665	VV	25372	932061	22.08%	0.610%
451	21.721	21.665	21.764	VV	28812	1371840	32.49%	0.897%
452	21.768	21.764	21.776	VV	19223	133682	3.17%	0.087%
453	21.799	21.776	21.832	VV	19946	594518	14.08%	0.389%
454	21.852	21.832	21.860	VV	16226	262684	6.22%	0.172%
455	21.864	21.860	21.867	VV	16024	62681	1.48%	0.041%
456	21.875	21.867	21.881	VV	16448	132937	3.15%	0.087%

457	21.887	21.881	21.917	VV	16265	288224	6.83%	0.189%
458	21.931	21.917	21.982	VV	13495	382518		
459	21.985	21.982	21.992	VV	5064	27318		
460	22.028	21.992	22.069	VV	14506	458007	10	
461	22.108	22.069	22.202	VV	39655	1162184	27	
462	22.225	22.202	22.232	PV	1687	21462	0	
463	22.252	22.232	22.259	VV	3123	33670	0.80%	0.022%
464	22.264	22.259	22.293	VV	3793	38187	0.90%	0.025%
Sum of corrected areas:					152868860			

Instrument :
FID_F
ClientSampleId :
WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/13/2025
Supervised By :Ankita Jodhani 03/13/2025

FF030325.M Thu Mar 13 03:00:48 2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q1542-01MS		FF015660.D	FF031225	N-HEXATRIACONTANE	Ankita	3/13/2025 9:27:57 AM	Peak Integrated by Software incorrectly
Q1542-01MS		FF015660.D	FF031225	N-OCTATRIACONTANE	Ankita	3/13/2025 9:27:57 AM	Peak Integrated by Software incorrectly
Q1542-01MSD		FF015661.D	FF031225	N-HEXATRIACONTANE	Ankita	3/13/2025 9:27:59 AM	Peak Integrated by Software incorrectly

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF030325

Review By	yogesh	Review On	3/3/2025 3:23:25 PM
Supervise By	Ankita	Supervise On	3/4/2025 3:14:15 PM
SubDirectory	FF030325	HP Acquire Method	HP Processing Method FF030325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015567.D	03 Mar 2025 10:50	YP\AJ	Ok
2	I.BLK	FF015568.D	03 Mar 2025 11:48	YP\AJ	Ok
3	100 TRPH STD	FF015569.D	03 Mar 2025 12:17	YP\AJ	Ok
4	50 TRPH STD	FF015570.D	03 Mar 2025 12:46	YP\AJ	Ok
5	20 TRPH STD	FF015571.D	03 Mar 2025 13:16	YP\AJ	Ok
6	10 TRPH STD	FF015572.D	03 Mar 2025 13:45	YP\AJ	Ok
7	5 TRPH STD	FF015573.D	03 Mar 2025 14:14	YP\AJ	Ok
8	FF030325ICV	FF015574.D	03 Mar 2025 14:43	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF031225

Review By	yogesh	Review On	3/12/2025 11:18:34 AM
Supervise By	Ankita	Supervise On	3/13/2025 9:28:07 AM
SubDirectory	FF031225	HP Acquire Method	HP Processing Method FF030325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015652.D	12 Mar 2025 10:00	YP\AJ	Ok
2	I.BLK	FF015653.D	12 Mar 2025 10:29	YP\AJ	Ok
3	50 PPM TRPH STD	FF015654.D	12 Mar 2025 10:59	YP\AJ	Ok
4	RT MARKER	FF015655.D	12 Mar 2025 11:30	YP\AJ	Ok
5	PB167095BL	FF015656.D	12 Mar 2025 11:59	YP\AJ	Ok
6	PB167095BS	FF015657.D	12 Mar 2025 12:29	YP\AJ	Ok
7	Q1542-01	FF015658.D	12 Mar 2025 12:58	YP\AJ	Ok
8	Q1545-01	FF015659.D	12 Mar 2025 13:27	YP\AJ	Ok
9	Q1542-01MS	FF015660.D	12 Mar 2025 13:57	YP\AJ	Ok,M
10	Q1542-01MSD	FF015661.D	12 Mar 2025 14:26	YP\AJ	Ok,M
11	I.BLK	FF015662.D	12 Mar 2025 14:55	YP\AJ	Ok
12	50 PPM TRPH STD	FF015663.D	12 Mar 2025 15:25	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF030325

Review By	yogesh	Review On	3/3/2025 3:23:25 PM
Supervise By	Ankita	Supervise On	3/4/2025 3:14:15 PM
SubDirectory	FF030325	HP Acquire Method	HP Processing Method FF030325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF015567.D	03 Mar 2025 10:50		YP\AJ	Ok
2	I.BLK		FF015568.D	03 Mar 2025 11:48		YP\AJ	Ok
3	100 TRPH STD		FF015569.D	03 Mar 2025 12:17		YP\AJ	Ok
4	50 TRPH STD		FF015570.D	03 Mar 2025 12:46		YP\AJ	Ok
5	20 TRPH STD		FF015571.D	03 Mar 2025 13:16		YP\AJ	Ok
6	10 TRPH STD		FF015572.D	03 Mar 2025 13:45		YP\AJ	Ok
7	5 TRPH STD		FF015573.D	03 Mar 2025 14:14		YP\AJ	Ok
8	FF030325ICV		FF015574.D	03 Mar 2025 14:43		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF031225

Review By	yogesh	Review On	3/12/2025 11:18:34 AM
Supervise By	Ankita	Supervise On	3/13/2025 9:28:07 AM
SubDirectory	FF031225	HP Acquire Method	HP Processing Method FF030325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF015652.D	12 Mar 2025 10:00		YP\AJ	Ok
2	I.BLK		FF015653.D	12 Mar 2025 10:29		YP\AJ	Ok
3	50 PPM TRPH STD		FF015654.D	12 Mar 2025 10:59		YP\AJ	Ok
4	RT MARKER		FF015655.D	12 Mar 2025 11:30		YP\AJ	Ok
5	PB167095BL		FF015656.D	12 Mar 2025 11:59		YP\AJ	Ok
6	PB167095BS		FF015657.D	12 Mar 2025 12:29		YP\AJ	Ok
7	Q1542-01		FF015658.D	12 Mar 2025 12:58		YP\AJ	Ok
8	Q1545-01		FF015659.D	12 Mar 2025 13:27		YP\AJ	Ok
9	Q1542-01MS		FF015660.D	12 Mar 2025 13:57		YP\AJ	Ok,M
10	Q1542-01MSD		FF015661.D	12 Mar 2025 14:26		YP\AJ	Ok,M
11	I.BLK		FF015662.D	12 Mar 2025 14:55		YP\AJ	Ok
12	50 PPM TRPH STD		FF015663.D	12 Mar 2025 15:25		YP\AJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/12/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 03/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 105
Time OUT: 08:14
Out Date: 03/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134991

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
Q1542-01	WASTE	1	1.15	8.70	9.85	8.57	85.3	
Q1542-02	VOC	2	1.15	8.83	9.98	8.75	86.1	
Q1542-03	1	3	1.16	8.74	9.9	8.6	85.1	
Q1542-04	2	4	1.15	8.82	9.97	8.84	87.2	
Q1542-05	3	5	1.15	8.42	9.57	8.24	84.2	
Q1542-06	4	6	1.15	8.84	9.99	8.86	87.2	
Q1542-07	5	7	1.17	8.44	9.61	8.46	86.4	
Q1542-08	6	8	1.16	8.82	9.98	8.68	85.3	
Q1544-01	1A-1B-1C	9	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-02	2A-2B-2C	10	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-03	3A-3B-3C	11	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-04	4A-4B-4C	12	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-05	5A-5B-5C	13	1.00	1.00	2.00	2.00	100.0	caluk
Q1545-01	BU-02-031125	14	1.16	9.18	10.34	10.01	96.4	
Q1545-02	BU-02-031125	15	1.17	9.27	10.44	10.06	95.9	

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

WORKLIST(Hardcopy Internal Chain)

JB 134991

WorkList Name : %1-031125 WorkList ID : 188174 Department : Wet-Chemistry Date : 03-11-2025 08:11:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1542-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-08	6	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1544-01	1A-1B-1C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-02	2A-2B-2C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-03	3A-3B-3C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-04	4A-4B-4C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-05	5A-5B-5C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1545-01	BU-02-031125	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/11/2025	Chemtech -SO
Q1545-02	BU-02-031125	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/11/2025	Chemtech -SO

Date/Time 03/11/25 15:35

Raw Sample Received by: JB 134991

Raw Sample Relinquished by: JB 134991

Date/Time 03/11/25

Raw Sample Received by: JB 134991

Raw Sample Relinquished by: JB 134991

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 03/12/2025

Extraction Start Time : 08:40

Extraction End Date : 03/12/2025

Extraction End Time : 11:40

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☐ Separatory Funnel ☐ Continuous 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	EP2591
Baked Na2SO4	N/A	EP2593
Sand	N/A	E2865
Methylene Chloride	N/A	E3878
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

KD Bath Temperature: N/A

Envap ID: NEVAP-02

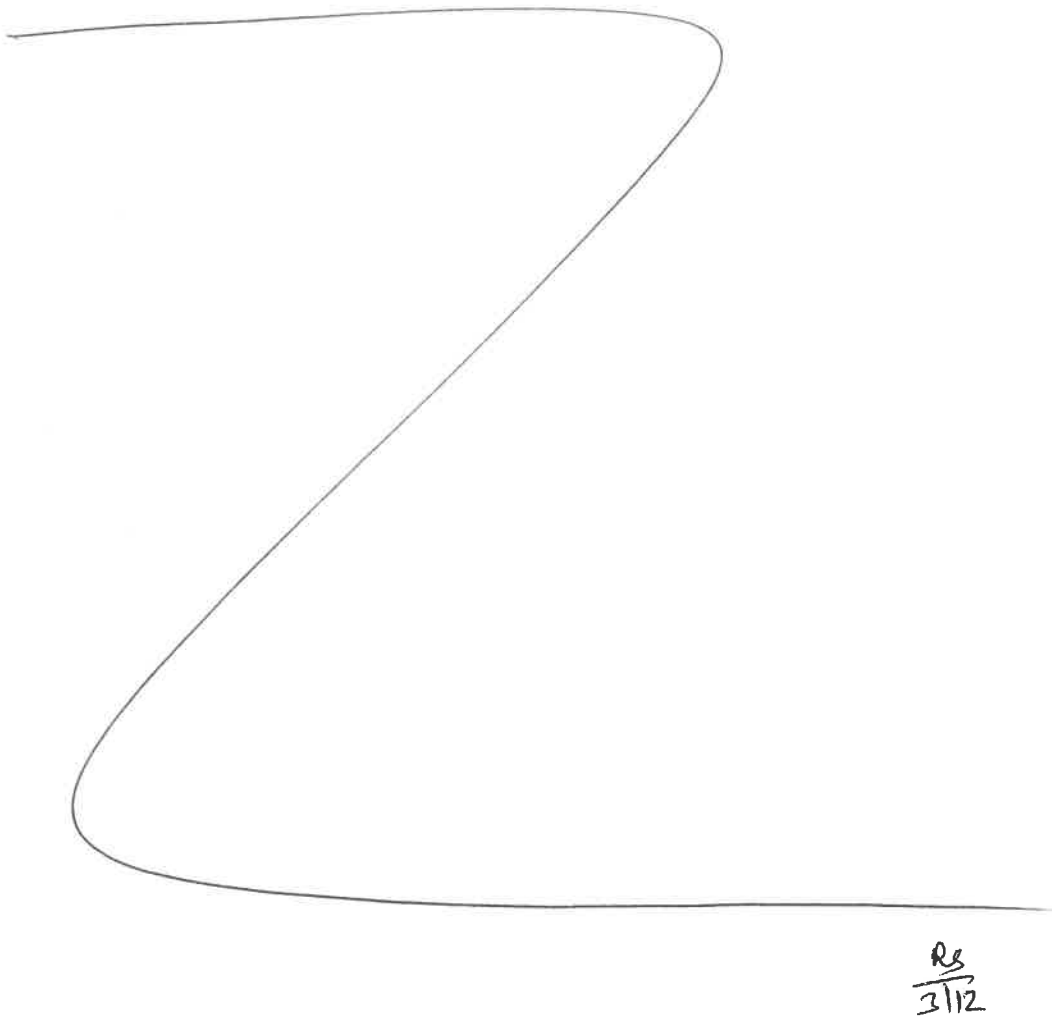
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/12/25	RS (Ext Lab)	Y-P. Pestiplo.
11:45	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/12/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167095BL	PB167095BL	TPH GC	30.01	N/A	ritesh	Evelyn	1			U6-1
PB167095BS	PB167095BS	TPH GC	30.02	N/A	ritesh	Evelyn	1			2
Q1542-01	WASTE	TPH GC	30.07	N/A	ritesh	Evelyn	1			3
Q1542-01MS	WASTEMS	TPH GC	30.03	N/A	ritesh	Evelyn	1			4
Q1542-01MS D	WASTEMSD	TPH GC	30.05	N/A	ritesh	Evelyn	1			5
Q1545-01	BU-02-031125	TPH GC	30.06	N/A	ritesh	Evelyn	1	C		6



Rs
3112

167095
8:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1542 WorkList ID : 188218 Department : Extraction Date : 03-12-2025 08:28:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1542-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	F11	03/10/2025	8015D
Q1545-01	BU-02-031125	Solid	TPH GC	Cool 4 deg C	PSEG05	I41	03/11/2025	8015D

Date/Time 03/12/25 8:30
Raw Sample Received by: RJ LFA-1ab)
Raw Sample Relinquished by: CR sn

Date/Time 03/12/25 9:00
Raw Sample Received by: CR sn
Raw Sample Relinquished by: RJ LFA-1ab)

Prep Standard - Chemical Standard Summary

Order ID : Q1542

Test : TPH GC

Prepbatch ID : PB167095,

Sequence ID/Qc Batch ID: FF031225,

Standard ID :

EP2591,EP2593,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,PP24162,PP24180,

Chemical ID :

E2865,E3551,E3828,E3874,E3876,E3878,P11955,P11956,P11958,P11959,P13213,P13218,P13219,P13487,P13488,P13489,P13490,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2591	02/26/2025	08/14/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
02/26/2025								

FROM 8000.00000ml of E3876 + 8000.00000ml of E3878 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel
(EX-SC-2)								

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
433	100/100 PPM DRO (Restek)	PP23961	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 1.00000ml of P11958 + 1.00000ml of P11959 + 1.00000ml of P13213 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3796	100/100 PPM DRO STD (CPI)	PP23962	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 1.00000ml of P13213 + 1.00000ml of P13218 + 1.00000ml of P13219 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
435	50 PPM ICC DRO STD (Restek)	PP23963	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.50000ml of E3828 + 0.50000ml of PP23961 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
437	20 PPM ICC DRO STD (Restek)	PP23964	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.80000ml of E3828 + 0.20000ml of PP23961 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
438	10 PPM ICC DRO STD (Restek)	PP23965	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23961 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
439	5 PPM ICC DRO STD (Restek)	PP23966	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23963 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3797	50 PPM DRO ICV STD (CPI)	PP23967	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.80000ml of E3828 + 0.50000ml of PP23962 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP24162	01/31/2025	07/30/2025	Yogesh Patel	None	None	Ankita Jodhani
								01/31/2025

FROM 1.00000ml of P11955 + 1.00000ml of P11956 + 48.00000ml of E3874 = Final Quantity: 50.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
147	20 PPM DRO Surrogate Spike Solution	PP24180	02/03/2025	07/30/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025
<u>FROM</u> 1.00000ml of P13487 + 1.00000ml of P13488 + 1.00000ml of P13489 + 1.00000ml of P13490 + 196.00000ml of E3874 = Final Quantity: 200.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	07/31/2025	01/31/2025 / yogesh	07/11/2022 / Yogesh	P11955

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	07/31/2025	01/31/2025 / yogesh	07/11/2022 / Yogesh	P11956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11958

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/13/2025	11/13/2024 / yogesh	01/17/2024 / Ankita	P13213

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	02/14/2025	08/14/2024 / yogesh	01/31/2024 / Ankita	P13218

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	05/13/2025	11/13/2024 / yogesh	01/31/2024 / Ankita	P13219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13487

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13488

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13489

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	08/03/2025	02/03/2025 / yogesh	07/24/2024 / yogesh	P13490

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

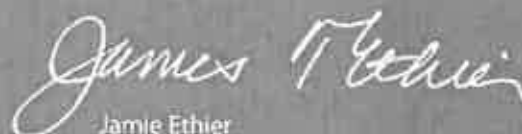
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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MONTERREY, N.L. MEXICO
CP 64070
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www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantor**™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantor™**



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 2/12/25

E 3876



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3878

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

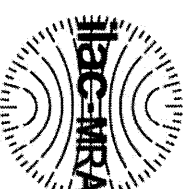
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) CAS # 111-65-9 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

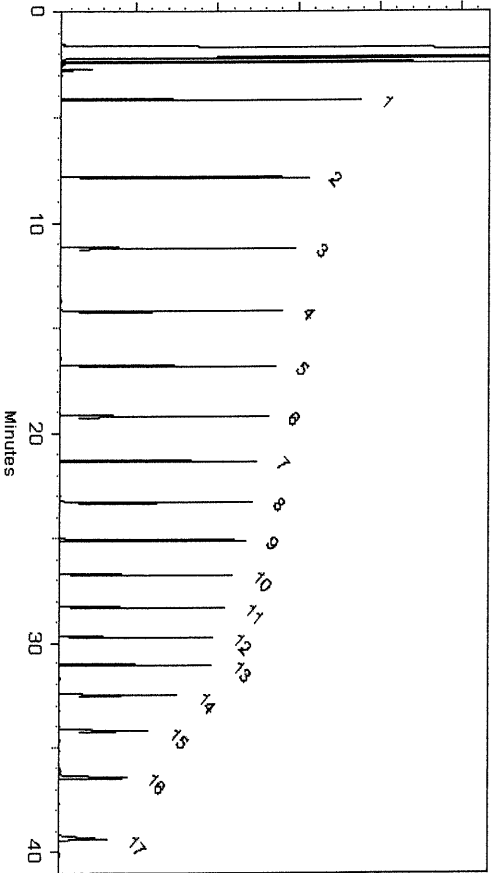
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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110 Benner Circle

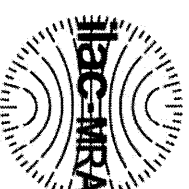
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) CAS # 111-65-9 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Unstressed Stressed
3	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Unstressed Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Unstressed Stressed
6	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Unstressed Stressed
7	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

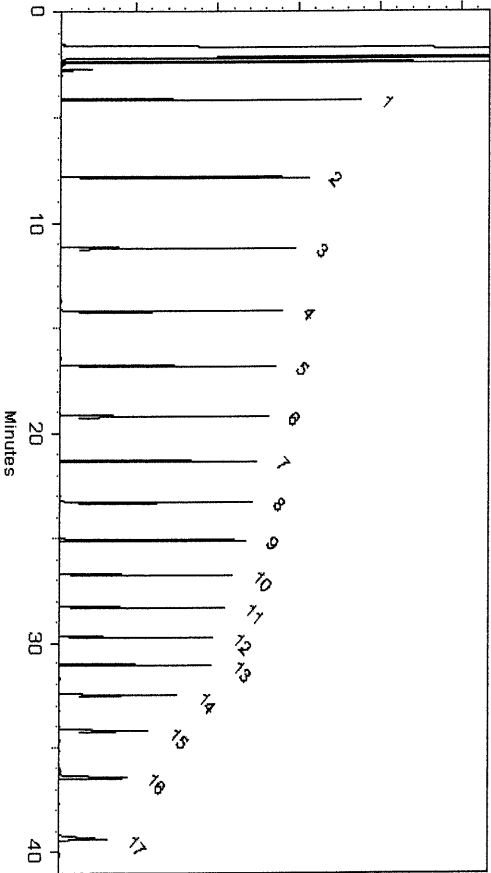
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko

Brittany Federinko - Operations Tech I

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Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

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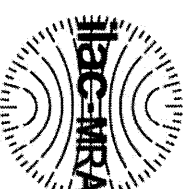
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Pkg Amt: > 1 mL

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Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

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4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
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P11948 } 7.8
P11962 } 07/11/16

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9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
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Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

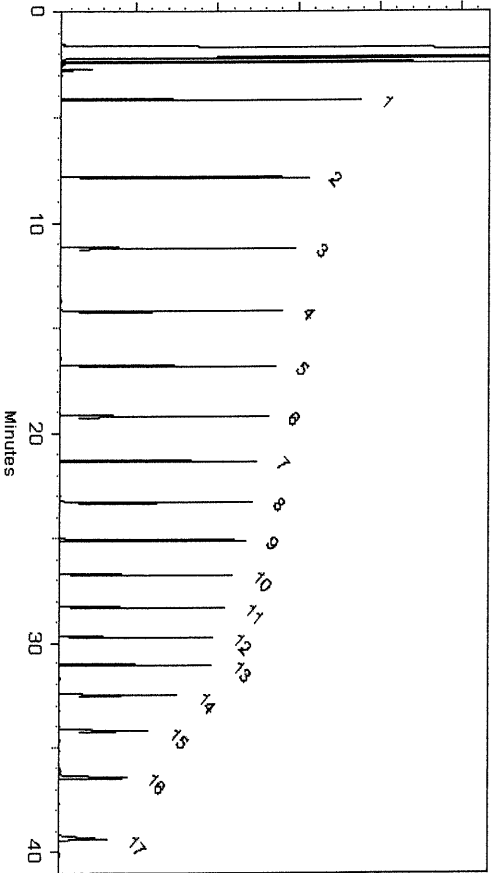
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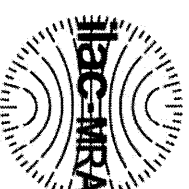
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Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

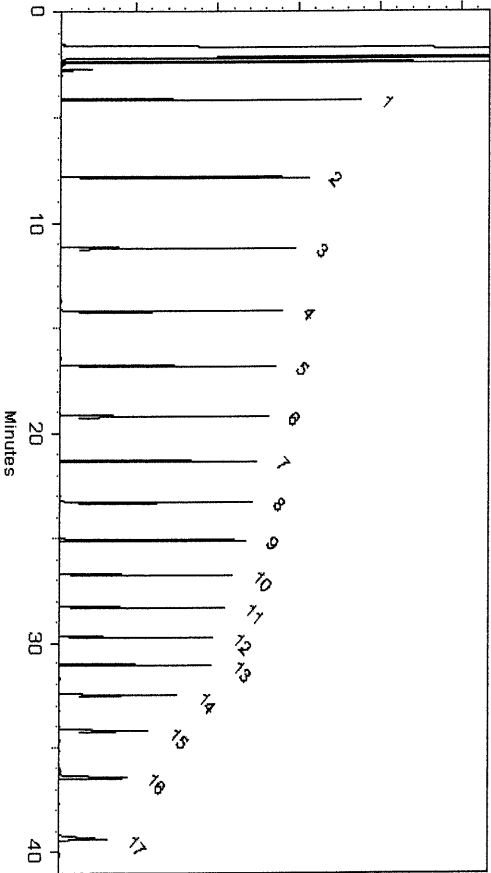
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

72072
101122
n-Tetracosane-d50

Solvent(s):
Methylene chloride

Lot#
105345

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

101132
Ambient (20 °C)
1000
6UTB

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

200.0

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty (%D)	Assay	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
----------	-----	------------	----------------------	------------	-------------------------	-------	------------------	------------------	---------------------	------------------------------------	--	------	----------------	------

1. n-Tetracosane-d50

2072 PR-26606

1000

98.7

0.2

99.0

0.20471

0.20482

1000.6

4.1

16416-32-3

N/A

N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.

FIGURE 1: 72072.D

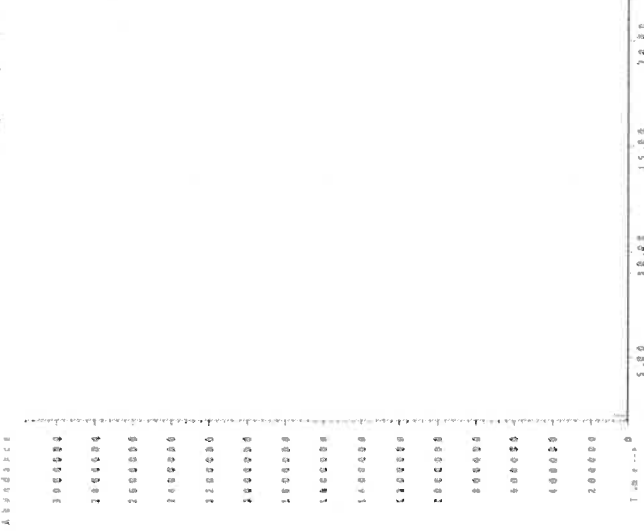
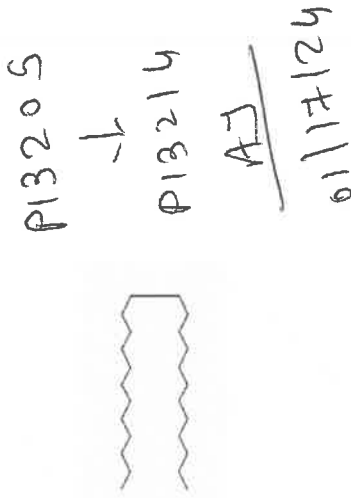
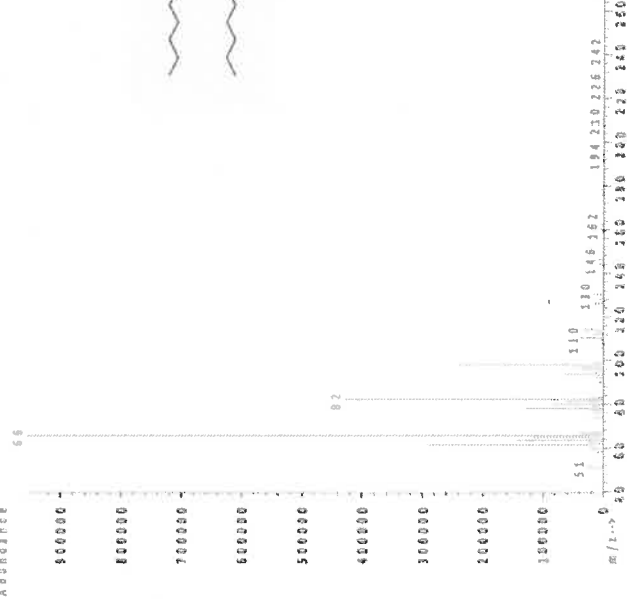


FIGURE 2: 105345172072.D



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



5580 Skylane Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤-10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

decane (C10)

124-18-5

99.7

415.7.2P

498.5 ± 6.92

docosane (C22)

629-97-0

98.8

420.9.1P

499.4 ± 6.93

dodecane (C12)

112-40-3

99.7

416.9.3P

502 ± 6.97

dotriacontane (C32)

544-85-4

97

425.9.2.2P

499.6 ± 8.53

eicosane (C20)

112-95-8

99.8

419.7.1P

501 ± 6.95

hexacosane (C26)

630-01-3

99.3

422.7.2.1P

501 ± 6.95

hexatriacontane (C36)

630-06-8

98

427.29.1.1P

499.3 ± 8.53

n-hexadecane (C16)

544-76-3

99.45

368.27.1.1P

498.7 ± 6.91

octacosane (C28)

630-02-4

99.1

423.24.1P

500.5 ± 6.95

n-octadecane (C18)

593-45-3

99.5

418.29.1P

499.5 ± 6.92

octane (C8)

111-65-9

99.4

385.7.2.1P

498.5 ± 6.92

octatriacontane (C38)

7194-85-6

95

428.1.2P

500.2 ± 6.94

tetracontane (C40)

4181-95-7

97

429.7.2P

499.6 ± 6.93

n-tetracosane (C24)

646-31-1

99.5

421.7.1P

499.5 ± 6.93

n-tetradecane (C14)

629-59-4

99.3

417.9.1P

500 ± 6.94

tetratriacontane (C34)

14167-59-0

96.1

426.7.2.2P

499.7 ± 8.53

triacontane (C30)

638-68-6

99.5

424.7.1.1P

500 ± 6.94

Let the standard warm to room temperature and sonicate before opening.

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤-10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 ± 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 ± 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 ± 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 ± 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 ± 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 ± 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 ± 8.53
n-hexadecane (C16)	544-76-3	99.45	368.27.1.1P	498.7 ± 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 ± 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 ± 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 ± 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 ± 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 ± 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 ± 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 ± 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 ± 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 ± 6.94

P 13215

↓

P 13224

AJ
01131124

*Not a certified value

Let the standard warm to room temperature and sonicate before opening.

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

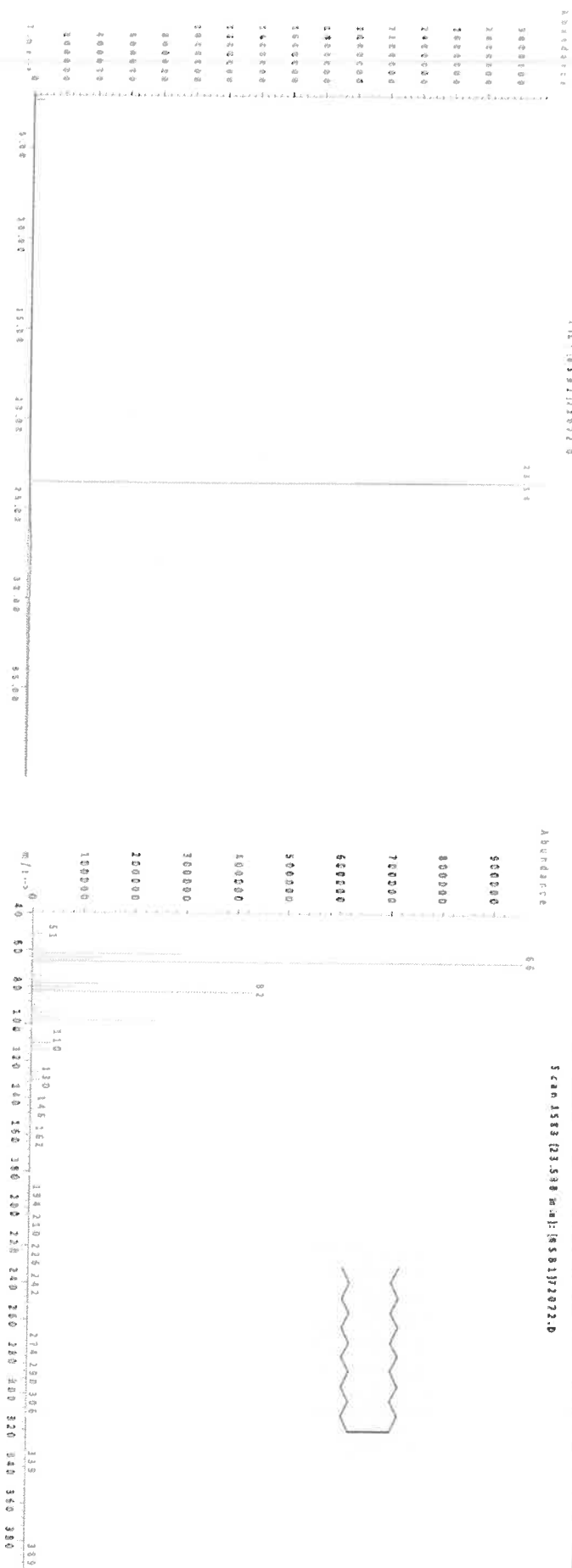
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%D)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	en-ra 500mg/kg	
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	en-ra 400mg/kg	
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	en-ra 500mg/kg	
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

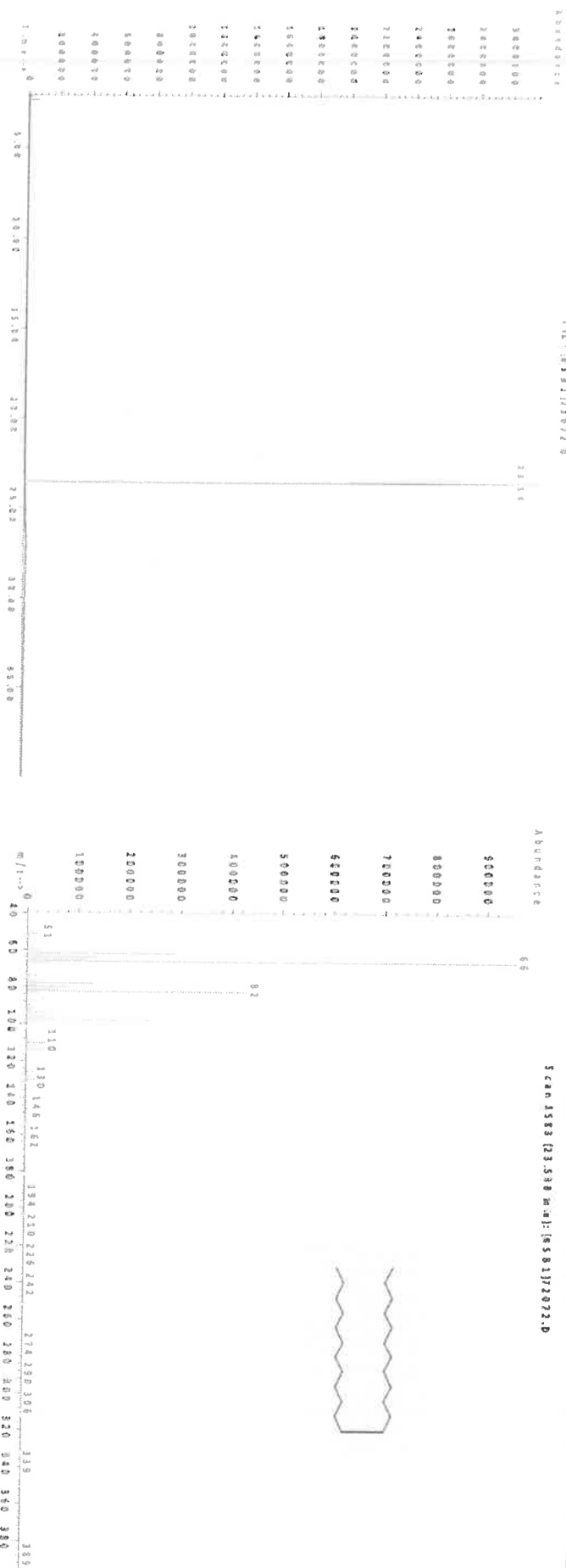
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-nr 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-nr 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-nr 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

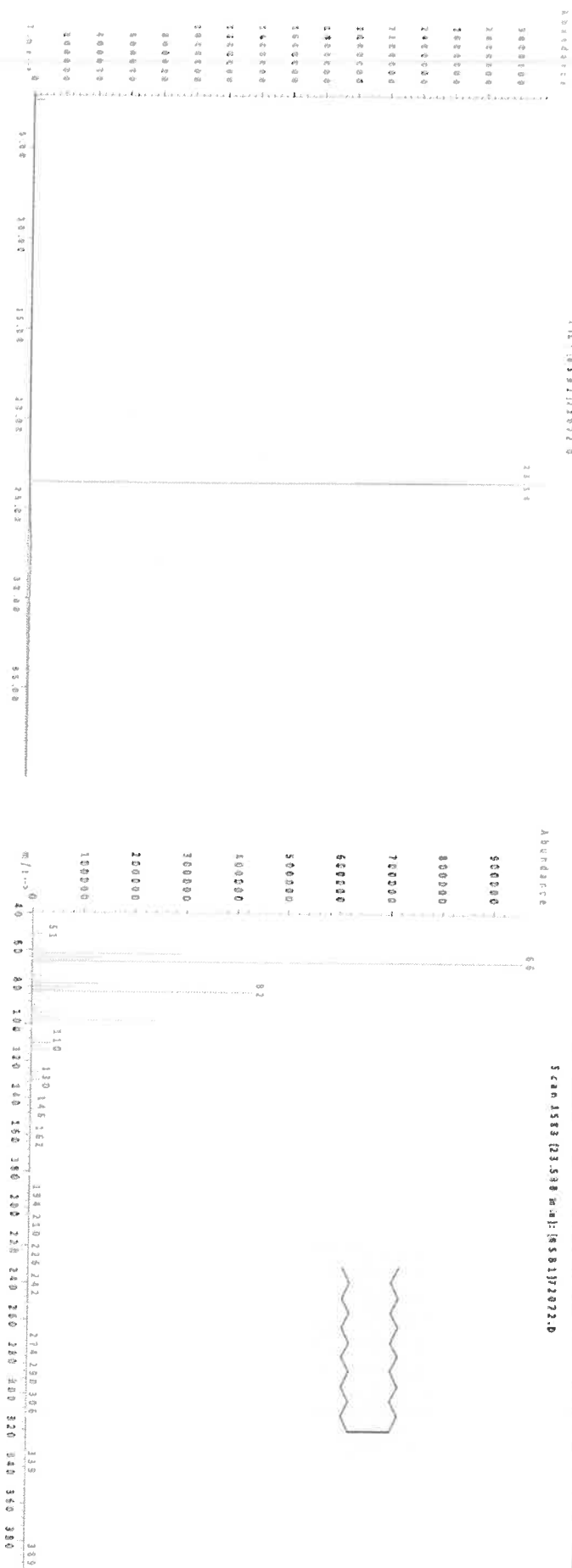
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%D)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



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Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
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Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#:
Weight(s) shown below were combined and diluted to (mL): 500.0
5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

DATE: 070716
DATE: 070716

MSDS Information
(Solvent Safety Info. On Attached pg.)

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC/MS2", Method "GC-MS2".
Analyzed using Method "GC-MS2".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak Data:

Peak No.	Name	FOF RT (min)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

3rd Party Comparison

Analyte	Sup/Abs Dev (%)
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	2.74
Phenanthrene-d10	0.65
Chrysene-d12	1.93
Perylene-d12	-1.72
Total	-0.55

Printed: 5/8/2019, 12:55:50 PM

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

Part Number: **72072**
Lot Number: **101122**
Description: **n-Tetracosane-d50**

Solvent(s):
Methylene chloride
Lot#
105345

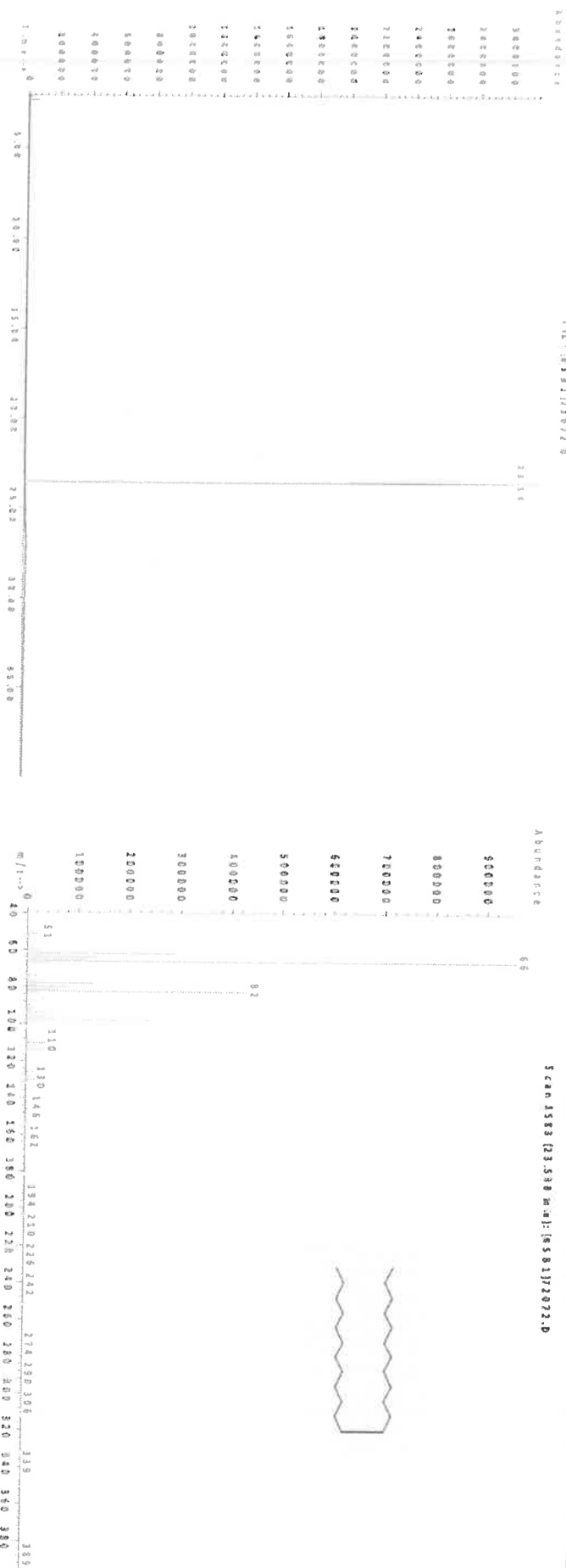
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%D)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



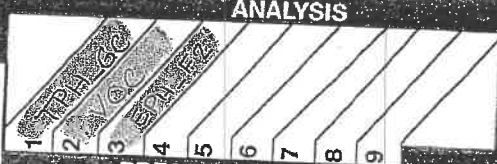
SHIPPING DOCUMENTS

CHEMTECH CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

248 Union St, Lodi

Chemtech Project Number Q1542
COC Number

CLIENT INFORMATION				PROJECT INFORMATION				BILLING INFORMATION								
Report to be sent to:				PROJECT NAME:				BILL TO:								
COMPANY:				PROJECT #:				ADDRESS:								
ADDRESS:				LOCATION:				CITY:								
CITY:				PROJECT MANAGER:				ATTENTION:								
STATE:				E-MAIL:				STATE:								
ZIP:				PHONE:				ZIP:								
PHONE:				FAX:				PHONE:								
FAX:				FAX:				FAX:								
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION				ANALYSIS								
FAX (RUSH) _____ DAYS*				☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data) ☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP ☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ EDD FORMAT ☐ Other _____												
HARDCOPY (DATA PACKAGE): _____ DAYS*																
EDD: _____ DAYS*																
*TO BE APPROVED BY CHEMTECH																
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS																
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	# of Bottles	PRESERVATIVES									COMMENTS	
			COMP	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	WASTE			3-10	2:45	1										
2.	VOC					1										
3.	1				2:30	1										
4.	2				2:45	1										
5.	3				3:00	1										
6.	4				9:45	1										
7.	5				1:15	1										
8.	6				9:30	1										
9.					1:30	1										
10.																
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or collars at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>7-2°</u>										
1.		3-11-25		3-11-25		Comments:										
RELINQUISHED BY		DATE/TIME		RECEIVED BY												
2.																
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY												
3.		3-11-25														
Page _____ of _____						CLIENT: ☐ Hand Delivered ☐ Other: _____						Shipment Complete ☐ YES ☐ NO				
CHEMTECH: ☐ Picked Up																

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

100g tank

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

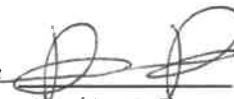
LOGIN REPORT/SAMPLE TRANSFER

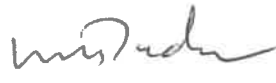
Order ID : Q1542	SCIA01	Order Date : 3/11/2025 11:00:00 AM	Project Mgr :
Client Name : Sciacca General Contractor		Project Name : 248 Union St., Lodi	Report Type : Results Only
Client Contact : Rosanne Scirica		Receive Date/Time : 3/11/2025 12:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Sciacca General Contractor		Purchase Order : 11:13am	Hard Copy Date :
Invoice Contact : Rosanne Scirica			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1542-02	VOC	Solid	03/10/2025	08:30	VOC-TCLVOA-10		8260D	10 Bus. Days	

JAR

stored in r2A
Fr 2702

Relinquished By : 
Date / Time : 3-11-25 1150

Received By : 
Date / Time : 3-11-25 12:50

Storage Area : VOA Refridgerator Room