

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:	Q3410	OrderDate:	10/20/2025 4:05:00 PM
Client:	Sciacca General Contractors, LLC	Project:	49 Moore Place Belleville
Contact:	Rosanne Scirica	Location:	J11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3410-01	WASTE	SOIL	TPH GC	8015D	10/20/25	10/24/25	10/24/25	10/20/25



QC SUMMARY



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

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Alliance

Client: Sciacca General Contractors, LLC

Lab Code: ACE

SDG No.: Q3410

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG016826.D	72				0
PIBLK-FG016834.D	72				0
PB170250BL	55				0
PB170250BS	81				0
WASTE	59				0
WASTEMS	54				0
WASTEMSD	54				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:	<u>Alliance</u>	Client:	<u>Sciacca General Contractors, LLC</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3410</u>
Client Sample ID :	<u>WASTEMS</u>	Datafile:	<u>FG016832.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	13967	28200	42023	99%		68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Sciacca General Contractors, LLC</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3410</u>
Client Sample ID :	<u>WASTEMSD</u>	Datafile:	<u>FG016833.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	13976	28200	43033	106%		68-131

MS/MSD % Recovery RPD : 6.9

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

Lab Name: Alliance

Client: Sciacca General Contractors, LLC

Lab Code: ACE

SDG No: Q3410

Client Sample ID : PB170250BS

Datafile: FG016830.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
Petroleum Hydrocarbons	11326	0	8825	78	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB170250BL

Lab Name: Alliance

Contract: SCIA01

Lab Code: ACE

SDG NO.: Q3410

Lab File ID: FG016829.D

Lab Sample ID: PB170250BL

Instrument ID: FG

Date Extracted: 10/24/2025

Matrix: (soil/water) Soil

Date Analyzed: 10/24/25

Level: (low/med) low

Time Analyzed: 16:29

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170250BS	PB170250BS	FG016830.D	10/24/25
WASTE	Q3410-01	FG016831.D	10/24/25
WASTEMS	Q3410-01MS	FG016832.D	10/24/25
WASTEMSD	Q3410-01MSD	FG016833.D	10/24/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	10/20/25
Project:	49 Moore Place Belleville		Date Received:	10/20/25
Client Sample ID:	WASTE		SDG No.:	Q3410
Lab Sample ID:	Q3410-01		Matrix:	SOIL
Analytical Method:	8015D TPH		% Solid:	80.9
Sample Wt/Vol:	30.04 g	Final Vol:	1 mL	Test:
Prep Method:	SW3541	Prep Date	10/24/25	TPH GC

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
PHC	Petroleum Hydrocarbons	28200		1	474	3500	ug/kg	10/24/25 17:28	PB170250
SURROGATES									
16416-32-3	TETRACOSANE-d50	11.9			37 - 130	59%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016831.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 17:28
Operator : YP\AJ
Sample : Q3410-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WASTE

Integration File: Sample.e
Quant Time: Oct 24 23:32:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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...	15.149	1454729	11.855 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

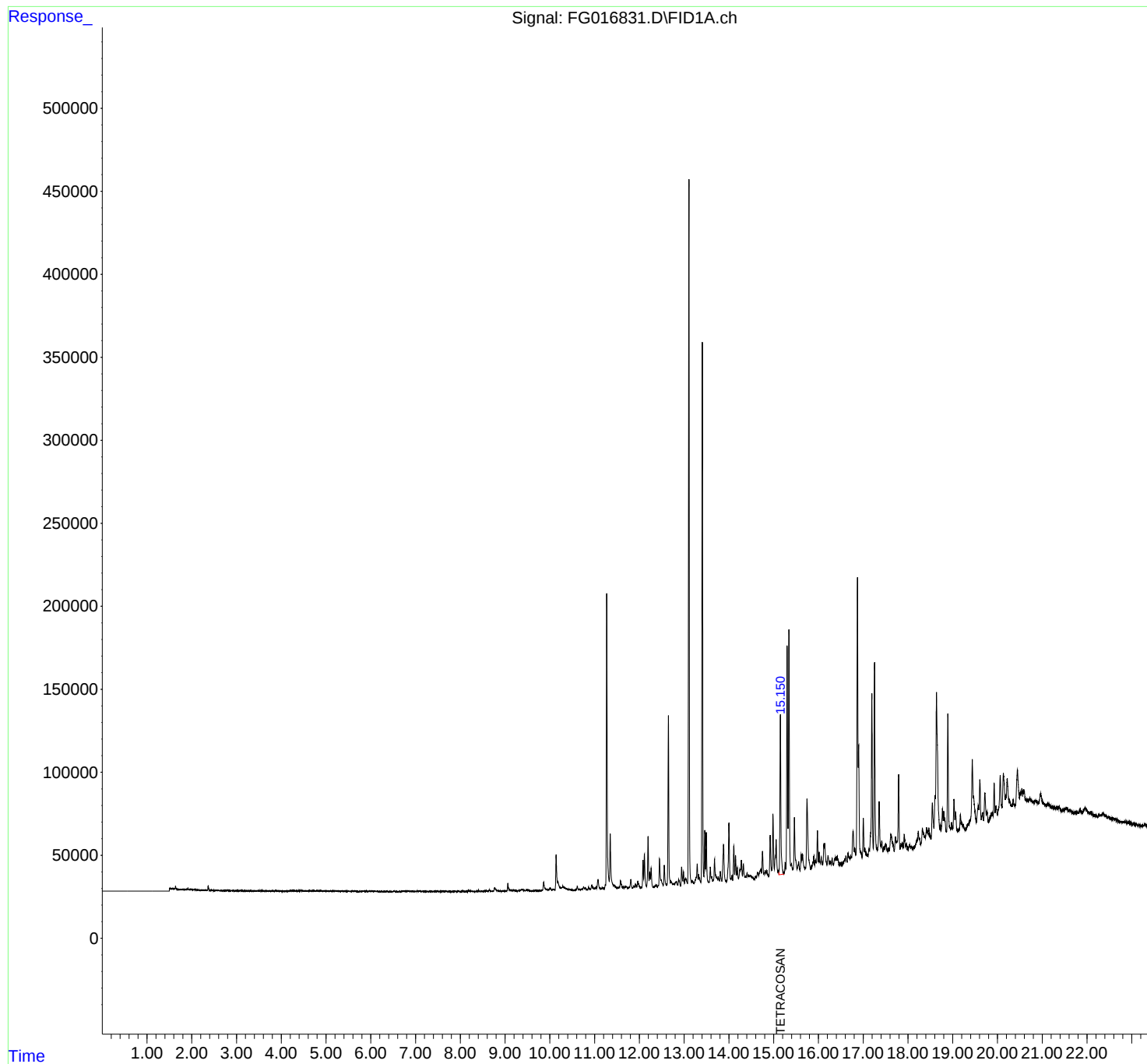
(m)=manual int.

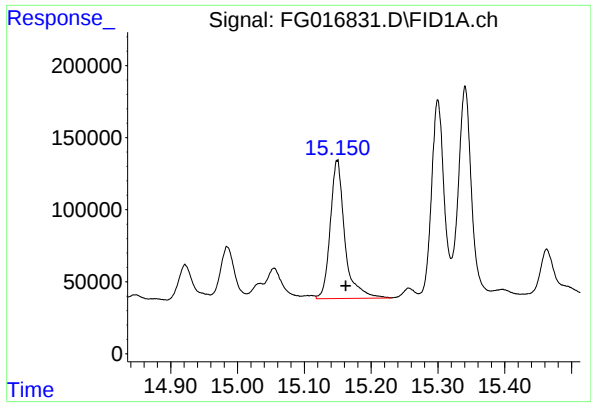
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016831.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 17:28
Operator : YP\AJ
Sample : Q3410-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WASTE

Integration File: Sample.e
Quant Time: Oct 24 23:32:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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.: 15.149 min
Delta R.T.: -0.013 min
Response: 1454729
Conc: 11.86 ug/ml

Instrument :
FID_G
ClientSampleId :
WASTE

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
 Data File : FG016831.D
 Signal(s) : FID1A.ch
 Acq On : 24 Oct 2025 17:28
 Sample : Q3410-01
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.912	1.900	1.957	BV	632	5723	0.11%	0.007%
2	1.968	1.957	1.989	PV	284	2961	0.06%	0.003%
3	1.992	1.989	2.005	VV	116	732	0.01%	0.001%
4	2.018	2.005	2.061	PV	137	2019	0.04%	0.002%
5	2.066	2.061	2.082	VV	82	706	0.01%	0.001%
6	2.091	2.082	2.104	VV	232	1961	0.04%	0.002%
7	2.107	2.104	2.125	VV	156	954	0.02%	0.001%
8	2.130	2.125	2.145	PV	135	749	0.01%	0.001%
9	2.156	2.145	2.163	VV	133	1017	0.02%	0.001%
10	2.167	2.163	2.183	VV	149	1165	0.02%	0.001%
11	2.187	2.183	2.200	VV	115	749	0.01%	0.001%
12	2.202	2.200	2.215	VV	111	590	0.01%	0.001%
13	2.226	2.215	2.237	PV	113	724	0.01%	0.001%
14	2.240	2.237	2.250	VV	75	475	0.01%	0.001%
15	2.253	2.250	2.259	VV	106	431	0.01%	0.001%
16	2.263	2.259	2.276	VV	125	727	0.01%	0.001%
17	2.285	2.276	2.311	VV	198	2991	0.06%	0.004%
18	2.315	2.311	2.330	VV	157	1468	0.03%	0.002%
19	2.334	2.330	2.340	VV	163	667	0.01%	0.001%
20	2.367	2.340	2.407	VV	2778	33005	0.66%	0.039%
21	2.414	2.407	2.439	VV	243	2858	0.06%	0.003%
22	2.450	2.439	2.488	VV	245	4624	0.09%	0.005%
23	2.493	2.488	2.527	PV	157	2709	0.05%	0.003%
24	2.531	2.527	2.546	VV	143	1160	0.02%	0.001%
25	2.553	2.546	2.571	VV	152	1357	0.03%	0.002%
26	2.576	2.571	2.585	VV	148	730	0.01%	0.001%
27	2.599	2.585	2.611	VV	160	1371	0.03%	0.002%
28	2.615	2.611	2.623	PV	83	448	0.01%	0.001%
29	2.658	2.623	2.681	VV	146	3168	0.06%	0.004%
30	2.695	2.681	2.713	VV	149	1812	0.04%	0.002%
31	2.725	2.713	2.736	VV	152	945	0.02%	0.001%
32	2.746	2.736	2.757	VV	93	544	0.01%	0.001%
33	2.761	2.757	2.767	VV	92	361	0.01%	0.000%
34	2.793	2.767	2.820	VV	237	4266	0.09%	0.005%
35	2.825	2.820	2.836	VV	100	617	0.01%	0.001%
36	2.858	2.836	2.864	VV	171	1599	0.03%	0.002%

					rteres			
37	2.868	2.864	2.880	VV	158	978	0.02%	0.001%
38	2.890	2.880	2.905	VV	169	1657	0.03%	0.002%
39	2.908	2.905	2.914	VV	91	444	0.01%	0.001%
40	2.919	2.914	2.932	VV	174	1103	0.02%	0.001%
41	2.946	2.932	2.966	VV	204	2059	0.04%	0.002%
42	2.969	2.966	3.020	VV	110	3567	0.07%	0.004%
43	3.036	3.020	3.067	VV	295	5359	0.11%	0.006%
44	3.072	3.067	3.090	VV	133	1449	0.03%	0.002%
45	3.109	3.090	3.121	VV	273	3658	0.07%	0.004%
46	3.131	3.121	3.138	VV	212	1605	0.03%	0.002%
47	3.150	3.138	3.162	VV	242	2264	0.05%	0.003%
48	3.166	3.162	3.194	VV	162	2018	0.04%	0.002%
49	3.201	3.194	3.207	VV	117	850	0.02%	0.001%
50	3.219	3.207	3.231	VV	179	1802	0.04%	0.002%
51	3.239	3.231	3.250	VV	191	1204	0.02%	0.001%
52	3.253	3.250	3.257	VV	198	584	0.01%	0.001%
53	3.274	3.257	3.290	VV	189	2991	0.06%	0.004%
54	3.293	3.290	3.312	VV	157	1799	0.04%	0.002%
55	3.320	3.312	3.326	VV	228	1111	0.02%	0.001%
56	3.331	3.326	3.338	VV	170	734	0.01%	0.001%
57	3.340	3.338	3.347	VV	123	524	0.01%	0.001%
58	3.361	3.347	3.386	PV	187	2808	0.06%	0.003%
59	3.388	3.386	3.396	VV	164	538	0.01%	0.001%
60	3.406	3.396	3.419	VV	94	1167	0.02%	0.001%
61	3.427	3.419	3.436	VV	126	1058	0.02%	0.001%
62	3.446	3.436	3.470	VV	137	2289	0.05%	0.003%
63	3.483	3.470	3.499	VV	206	2226	0.04%	0.003%
64	3.505	3.499	3.518	VV	268	1287	0.03%	0.002%
65	3.522	3.518	3.527	VV	133	492	0.01%	0.001%
66	3.536	3.527	3.543	VV	152	870	0.02%	0.001%
67	3.547	3.543	3.552	VV	178	506	0.01%	0.001%
68	3.571	3.552	3.587	PV	334	4184	0.08%	0.005%
69	3.593	3.587	3.625	VV	207	2792	0.06%	0.003%
70	3.636	3.625	3.643	VV	156	1229	0.02%	0.001%
71	3.649	3.643	3.670	VV	212	2348	0.05%	0.003%
72	3.686	3.670	3.699	VV	278	3067	0.06%	0.004%
73	3.715	3.699	3.741	VV	256	4336	0.09%	0.005%
74	3.752	3.741	3.772	VV	198	1724	0.03%	0.002%
75	3.776	3.772	3.790	VV	113	759	0.02%	0.001%
76	3.793	3.790	3.802	VV	125	642	0.01%	0.001%
77	3.819	3.802	3.836	VV	241	3366	0.07%	0.004%
78	3.840	3.836	3.849	VV	119	1010	0.02%	0.001%
79	3.872	3.849	3.895	VV	464	7029	0.14%	0.008%
80	3.903	3.895	3.909	VV	185	1111	0.02%	0.001%
81	3.910	3.909	3.914	VV	182	464	0.01%	0.001%
82	3.933	3.914	3.940	VV	225	2641	0.05%	0.003%
83	3.955	3.940	3.966	VV	227	2347	0.05%	0.003%
84	3.972	3.966	3.979	VV	173	898	0.02%	0.001%
85	3.982	3.979	3.995	VV	161	1147	0.02%	0.001%
86	4.001	3.995	4.005	VV	140	629	0.01%	0.001%
87	4.015	4.005	4.040	VV	394	2248	0.04%	0.003%
88	4.056	4.040	4.066	VV	182	1766	0.04%	0.002%
89	4.071	4.066	4.076	VV	112	599	0.01%	0.001%

					rteres			
90	4.081	4.076	4.093	VV	172	1507	0.03%	0.002%
91	4.096	4.093	4.103	VV	155	830	0.02%	0.001%
92	4.105	4.103	4.111	VV	188	608	0.01%	0.001%
93	4.116	4.111	4.121	VV	150	566	0.01%	0.001%
94	4.126	4.121	4.134	VV	134	644	0.01%	0.001%
95	4.140	4.134	4.147	VV	133	639	0.01%	0.001%
96	4.177	4.147	4.190	VV	366	5137	0.10%	0.006%
97	4.213	4.190	4.234	VV	505	10367	0.21%	0.012%
98	4.239	4.234	4.247	VV	350	2576	0.05%	0.003%
99	4.259	4.247	4.300	VV	368	10368	0.21%	0.012%
100	4.305	4.300	4.326	VV	362	4113	0.08%	0.005%
101	4.348	4.326	4.367	VV	367	6718	0.13%	0.008%
102	4.372	4.367	4.379	VV	307	1731	0.03%	0.002%
103	4.384	4.379	4.390	VV	291	1909	0.04%	0.002%
104	4.395	4.390	4.408	VV	301	2915	0.06%	0.003%
105	4.411	4.408	4.417	VV	349	1691	0.03%	0.002%
106	4.443	4.417	4.459	VV	568	9804	0.20%	0.012%
107	4.463	4.459	4.468	VV	274	1345	0.03%	0.002%
108	4.475	4.468	4.486	VV	324	2815	0.06%	0.003%
109	4.495	4.486	4.504	VV	287	2526	0.05%	0.003%
110	4.506	4.504	4.520	VV	248	2122	0.04%	0.003%
111	4.523	4.520	4.562	VV	290	5792	0.12%	0.007%
112	4.566	4.562	4.593	VV	272	4533	0.09%	0.005%
113	4.597	4.593	4.610	VV	291	2479	0.05%	0.003%
114	4.630	4.610	4.644	VV	430	6886	0.14%	0.008%
115	4.650	4.644	4.668	VV	335	3776	0.08%	0.004%
116	4.671	4.668	4.695	VV	315	4064	0.08%	0.005%
117	4.709	4.695	4.734	VV	374	5927	0.12%	0.007%
118	4.749	4.734	4.776	VV	365	6741	0.13%	0.008%
119	4.798	4.776	4.821	VV	614	11359	0.23%	0.013%
120	4.824	4.821	4.836	VV	399	2834	0.06%	0.003%
121	4.846	4.836	4.877	VV	367	7836	0.16%	0.009%
122	4.880	4.877	4.896	VV	383	3240	0.06%	0.004%
123	4.903	4.896	4.910	VV	321	2439	0.05%	0.003%
124	4.914	4.910	4.928	VV	302	2767	0.06%	0.003%
125	4.933	4.928	4.951	VV	390	3922	0.08%	0.005%
126	4.954	4.951	4.966	VV	281	2236	0.04%	0.003%
127	4.987	4.966	5.006	VV	314	5602	0.11%	0.007%
128	5.012	5.006	5.028	VV	231	2676	0.05%	0.003%
129	5.044	5.028	5.049	VV	274	2968	0.06%	0.004%
130	5.054	5.049	5.068	VV	279	2805	0.06%	0.003%
131	5.077	5.068	5.084	VV	262	2169	0.04%	0.003%
132	5.109	5.084	5.127	VV	323	6528	0.13%	0.008%
133	5.131	5.127	5.138	VV	270	1504	0.03%	0.002%
134	5.142	5.138	5.153	VV	276	2027	0.04%	0.002%
135	5.156	5.153	5.180	VV	269	3714	0.07%	0.004%
136	5.183	5.180	5.218	VV	333	5668	0.11%	0.007%
137	5.224	5.218	5.234	VV	275	1885	0.04%	0.002%
138	5.238	5.234	5.244	VV	203	1184	0.02%	0.001%
139	5.250	5.244	5.267	VV	239	2283	0.05%	0.003%
140	5.289	5.267	5.328	VV	360	7297	0.15%	0.009%
141	5.338	5.328	5.368	VV	316	5094	0.10%	0.006%

					rteres			
142	5.370	5.368	5.385	VV	182	1412	0.03%	0.002%
143	5.389	5.385	5.404	VV	163	1367	0.03%	0.002%
144	5.422	5.404	5.430	VV	283	1774	0.04%	0.002%
145	5.458	5.430	5.486	VV	229	4333	0.09%	0.005%
146	5.500	5.486	5.513	VV	170	2100	0.04%	0.002%
147	5.524	5.513	5.536	VV	169	1718	0.03%	0.002%
148	5.541	5.536	5.545	VV	102	538	0.01%	0.001%
149	5.548	5.545	5.564	VV	115	1070	0.02%	0.001%
150	5.594	5.564	5.614	VV	401	7860	0.16%	0.009%
151	5.617	5.614	5.646	VV	321	4004	0.08%	0.005%
152	5.651	5.646	5.684	VV	184	2464	0.05%	0.003%
153	5.699	5.684	5.754	VV	136	2853	0.06%	0.003%
154	5.774	5.754	5.782	PV	212	2089	0.04%	0.002%
155	5.790	5.782	5.827	VV	206	3460	0.07%	0.004%
156	5.847	5.827	5.875	VV	388	7317	0.15%	0.009%
157	5.885	5.875	5.905	VV	262	3773	0.08%	0.004%
158	5.908	5.905	5.916	VV	182	998	0.02%	0.001%
159	5.921	5.916	5.927	VV	146	853	0.02%	0.001%
160	5.930	5.927	5.952	VV	137	1863	0.04%	0.002%
161	5.966	5.952	6.001	VV	224	4037	0.08%	0.005%
162	6.029	6.001	6.075	VV	300	7078	0.14%	0.008%
163	6.087	6.075	6.094	VV	187	1831	0.04%	0.002%
164	6.104	6.094	6.116	VV	189	2100	0.04%	0.002%
165	6.119	6.116	6.147	VV	176	2560	0.05%	0.003%
166	6.154	6.147	6.164	VV	165	1235	0.02%	0.001%
167	6.174	6.164	6.180	VV	115	1075	0.02%	0.001%
168	6.183	6.180	6.209	VV	118	1276	0.03%	0.002%
169	6.211	6.209	6.235	VV	111	1025	0.02%	0.001%
170	6.243	6.235	6.264	VV	156	2051	0.04%	0.002%
171	6.274	6.264	6.286	VV	75	747	0.01%	0.001%
172	6.289	6.286	6.325	VV	98	1038	0.02%	0.001%
173	6.341	6.325	6.347	PV	171	1214	0.02%	0.001%
174	6.357	6.347	6.363	VV	183	1496	0.03%	0.002%
175	6.370	6.363	6.396	VV	200	2408	0.05%	0.003%
176	6.401	6.396	6.418	VV	119	1192	0.02%	0.001%
177	6.427	6.418	6.451	VV	110	1497	0.03%	0.002%
178	6.462	6.451	6.469	VV	107	631	0.01%	0.001%
179	6.520	6.469	6.551	VV	494	8952	0.18%	0.011%
180	6.574	6.551	6.599	VV	175	3118	0.06%	0.004%
181	6.607	6.599	6.630	VV	159	1652	0.03%	0.002%
182	6.637	6.630	6.649	VV	120	777	0.02%	0.001%
183	6.658	6.649	6.663	VV	96	595	0.01%	0.001%
184	6.710	6.663	6.714	VV	241	4585	0.09%	0.005%
185	6.718	6.714	6.734	VV	213	2226	0.04%	0.003%
186	6.742	6.734	6.752	VV	211	2380	0.05%	0.003%
187	6.765	6.752	6.794	VV	277	5700	0.11%	0.007%
188	6.798	6.794	6.803	VV	236	1320	0.03%	0.002%
189	6.810	6.803	6.841	VV	308	5553	0.11%	0.007%
190	6.847	6.841	6.854	VV	224	1529	0.03%	0.002%
191	6.857	6.854	6.869	VV	241	1673	0.03%	0.002%
192	6.878	6.869	6.883	VV	225	1593	0.03%	0.002%
193	6.894	6.883	6.911	VV	295	3550	0.07%	0.004%
194	6.912	6.911	6.946	VV	202	2776	0.06%	0.003%

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195	6.957	6.946	6.988	VV	212	3892	0.08%	0.005%
196	6.993	6.988	7.010	VV	173	1611	0.03%	0.002%
197	7.034	7.010	7.057	VV	361	6023	0.12%	0.007%
198	7.092	7.057	7.101	VV	387	7219	0.14%	0.009%
199	7.106	7.101	7.116	VV	268	1923	0.04%	0.002%
200	7.142	7.116	7.157	VV	174	3458	0.07%	0.004%
201	7.159	7.157	7.176	VV	175	1409	0.03%	0.002%
202	7.177	7.176	7.190	VV	172	946	0.02%	0.001%
203	7.197	7.190	7.217	VV	156	1783	0.04%	0.002%
204	7.221	7.217	7.251	VV	168	2016	0.04%	0.002%
205	7.261	7.251	7.289	VV	171	2051	0.04%	0.002%
206	7.323	7.289	7.336	VV	127	1764	0.04%	0.002%
207	7.372	7.336	7.377	PV	144	1822	0.04%	0.002%
208	7.382	7.377	7.386	VV	156	539	0.01%	0.001%
209	7.392	7.386	7.405	VV	115	931	0.02%	0.001%
210	7.427	7.405	7.441	VV	151	1863	0.04%	0.002%
211	7.457	7.441	7.482	VV	158	3288	0.07%	0.004%
212	7.487	7.482	7.502	VV	221	1724	0.03%	0.002%
213	7.505	7.502	7.511	VV	185	729	0.01%	0.001%
214	7.515	7.511	7.521	VV	167	704	0.01%	0.001%
215	7.531	7.521	7.566	VV	258	3587	0.07%	0.004%
216	7.596	7.566	7.624	VV	266	4477	0.09%	0.005%
217	7.638	7.624	7.646	VV	124	1277	0.03%	0.002%
218	7.655	7.646	7.697	VV	239	4752	0.09%	0.006%
219	7.704	7.697	7.731	VV	237	2918	0.06%	0.003%
220	7.737	7.731	7.745	VV	191	809	0.02%	0.001%
221	7.767	7.745	7.774	VV	204	2354	0.05%	0.003%
222	7.779	7.774	7.786	VV	149	779	0.02%	0.001%
223	7.791	7.786	7.802	VV	182	944	0.02%	0.001%
224	7.832	7.802	7.863	VV	147	3465	0.07%	0.004%
225	7.876	7.863	7.882	VV	129	1260	0.03%	0.001%
226	7.887	7.882	7.898	VV	156	1046	0.02%	0.001%
227	7.900	7.898	7.905	VV	113	379	0.01%	0.000%
228	7.924	7.905	7.931	VV	162	1453	0.03%	0.002%
229	7.938	7.931	7.944	VV	181	946	0.02%	0.001%
230	7.964	7.944	7.994	VV	241	3991	0.08%	0.005%
231	8.005	7.994	8.015	VV	77	701	0.01%	0.001%
232	8.019	8.015	8.024	VV	102	336	0.01%	0.000%
233	8.030	8.024	8.035	VV	126	617	0.01%	0.001%
234	8.052	8.035	8.076	VV	512	6803	0.14%	0.008%
235	8.080	8.076	8.099	VV	101	1136	0.02%	0.001%
236	8.104	8.099	8.110	VV	117	642	0.01%	0.001%
237	8.118	8.110	8.121	VV	134	756	0.02%	0.001%
238	8.129	8.121	8.148	VV	156	1729	0.03%	0.002%
239	8.155	8.148	8.159	PV	77	350	0.01%	0.000%
240	8.184	8.159	8.209	VV	752	11482	0.23%	0.014%
241	8.223	8.209	8.274	VV	489	9509	0.19%	0.011%
242	8.298	8.274	8.316	VV	146	2472	0.05%	0.003%
243	8.338	8.316	8.343	VV	194	1749	0.03%	0.002%
244	8.346	8.343	8.350	VV	124	435	0.01%	0.001%
245	8.377	8.350	8.385	VV	280	3847	0.08%	0.005%
246	8.406	8.385	8.456	VV	598	10195	0.20%	0.012%

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247	8.472	8.456	8.495	VV	255	4194	0.08%	0.005%
248	8.505	8.495	8.520	VV	187	2159	0.04%	0.003%
249	8.578	8.520	8.597	VV	459	11209	0.22%	0.013%
250	8.614	8.597	8.628	VV	380	5410	0.11%	0.006%
251	8.650	8.628	8.710	VV	932	17194	0.34%	0.020%
252	8.727	8.710	8.738	VV	279	3305	0.07%	0.004%
253	8.766	8.738	8.839	VV	2222	56857	1.13%	0.067%
254	8.847	8.839	8.882	VV	363	7040	0.14%	0.008%
255	8.890	8.882	8.952	VV	233	6034	0.12%	0.007%
256	8.972	8.952	8.992	VV	221	3739	0.07%	0.004%
257	9.015	8.992	9.034	VV	431	6597	0.13%	0.008%
258	9.062	9.034	9.137	VV	4890	91721	1.83%	0.108%
259	9.151	9.137	9.170	VV	711	11864	0.24%	0.014%
260	9.190	9.170	9.223	VV	643	15223	0.30%	0.018%
261	9.227	9.223	9.233	VV	321	1749	0.03%	0.002%
262	9.242	9.233	9.260	VV	296	4172	0.08%	0.005%
263	9.267	9.260	9.277	VV	245	1965	0.04%	0.002%
264	9.307	9.277	9.327	VV	616	10539	0.21%	0.012%
265	9.355	9.327	9.360	VV	869	12264	0.24%	0.014%
266	9.374	9.360	9.393	VV	1091	18720	0.37%	0.022%
267	9.398	9.393	9.446	VV	985	18420	0.37%	0.022%
268	9.450	9.446	9.459	VV	370	2498	0.05%	0.003%
269	9.479	9.459	9.506	VV	983	16761	0.33%	0.020%
270	9.522	9.506	9.559	VV	621	12403	0.25%	0.015%
271	9.568	9.559	9.593	VV	237	3128	0.06%	0.004%
272	9.602	9.593	9.619	VV	136	1654	0.03%	0.002%
273	9.634	9.619	9.653	VV	453	5632	0.11%	0.007%
274	9.674	9.653	9.703	VV	489	8832	0.18%	0.010%
275	9.719	9.703	9.749	VV	241	4513	0.09%	0.005%
276	9.770	9.749	9.795	VV	402	6524	0.13%	0.008%
277	9.825	9.795	9.837	PV	681	9477	0.19%	0.011%
278	9.861	9.837	9.919	VV	5337	111342	2.22%	0.131%
279	9.935	9.919	9.963	VV	1054	22312	0.45%	0.026%
280	10.010	9.963	10.050	VV	1794	48540	0.97%	0.057%
281	10.074	10.050	10.087	VV	851	15346	0.31%	0.018%
282	10.098	10.087	10.114	VV	753	9847	0.20%	0.012%
283	10.140	10.114	10.171	VV	21719	326173	6.51%	0.385%
284	10.180	10.171	10.247	VV	5585	141332	2.82%	0.167%
285	10.264	10.247	10.272	VV	1853	24801	0.49%	0.029%
286	10.288	10.272	10.308	VV	2742	46630	0.93%	0.055%
287	10.314	10.308	10.364	VV	1847	49789	0.99%	0.059%
288	10.377	10.364	10.410	VV	1135	21515	0.43%	0.025%
289	10.412	10.410	10.432	VV	462	5660	0.11%	0.007%
290	10.441	10.432	10.487	VV	444	9963	0.20%	0.012%
291	10.501	10.487	10.525	VV	302	3588	0.07%	0.004%
292	10.534	10.525	10.543	VV	90	526	0.01%	0.001%
293	10.561	10.543	10.576	VV	251	2621	0.05%	0.003%
294	10.614	10.576	10.639	VV	2255	33242	0.66%	0.039%
295	10.656	10.639	10.679	VV	517	8288	0.17%	0.010%
296	10.718	10.679	10.731	VV	649	13480	0.27%	0.016%
297	10.753	10.731	10.775	VV	1828	29978	0.60%	0.035%
298	10.790	10.775	10.844	VV	1387	20694	0.41%	0.024%
299	10.864	10.844	10.909	PV	1480	26191	0.52%	0.031%

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300	10.934	10.909	10.988	VV	2835	67862	1.35%	0.080%
301	11.006	10.988	11.018	VV	922	13355	0.27%	0.016%
302	11.036	11.018	11.049	VV	1995	25062	0.50%	0.030%
303	11.075	11.049	11.152	VV	6012	131555	2.62%	0.155%
304	11.170	11.152	11.189	VV	1329	16370	0.33%	0.019%
305	11.203	11.189	11.216	VV	666	8784	0.18%	0.010%
306	11.238	11.216	11.245	VV	2703	28245	0.56%	0.033%
307	11.270	11.245	11.326	VV	179031	2291935	45.72%	2.705%
308	11.348	11.326	11.428	VV	33349	599372	11.96%	0.707%
309	11.434	11.428	11.511	VV	1993	58099	1.16%	0.069%
310	11.543	11.511	11.547	VV	761	11662	0.23%	0.014%
311	11.552	11.547	11.557	VV	722	3697	0.07%	0.004%
312	11.579	11.557	11.632	VV	4829	100761	2.01%	0.119%
313	11.642	11.632	11.660	VV	952	12212	0.24%	0.014%
314	11.681	11.660	11.701	VV	1184	21310	0.43%	0.025%
315	11.713	11.701	11.734	VV	1256	15461	0.31%	0.018%
316	11.743	11.734	11.748	VV	316	1893	0.04%	0.002%
317	11.809	11.748	11.853	VV	5400	96411	1.92%	0.114%
318	11.876	11.853	11.893	VV	1549	20253	0.40%	0.024%
319	11.913	11.893	11.945	VV	2401	42059	0.84%	0.050%
320	11.964	11.945	12.022	VV	4076	84092	1.68%	0.099%
321	12.036	12.022	12.051	VV	495	5310	0.11%	0.006%
322	12.081	12.051	12.096	PV	16782	189693	3.78%	0.224%
323	12.112	12.096	12.161	VV	20250	300050	5.99%	0.354%
324	12.194	12.161	12.216	VV	30920	414195	8.26%	0.489%
325	12.231	12.216	12.246	VV	9359	122666	2.45%	0.145%
326	12.262	12.246	12.310	VV	11706	173696	3.46%	0.205%
327	12.326	12.310	12.344	PV	470	6110	0.12%	0.007%
328	12.377	12.344	12.402	VV	1034	26968	0.54%	0.032%
329	12.416	12.402	12.427	VV	757	9367	0.19%	0.011%
330	12.450	12.427	12.533	VV	17006	334324	6.67%	0.395%
331	12.556	12.533	12.616	VV	12929	209217	4.17%	0.247%
332	12.649	12.616	12.692	VV	102353	1293626	25.81%	1.527%
333	12.701	12.692	12.742	VV	2833	62018	1.24%	0.073%
334	12.753	12.742	12.764	VV	1336	15438	0.31%	0.018%
335	12.769	12.764	12.787	VV	1225	15069	0.30%	0.018%
336	12.808	12.787	12.821	VV	2327	35006	0.70%	0.041%
337	12.830	12.821	12.856	VV	2571	32327	0.64%	0.038%
338	12.877	12.856	12.921	VV	3779	70104	1.40%	0.083%
339	12.944	12.921	12.968	PV	11129	151247	3.02%	0.178%
340	12.986	12.968	13.007	VV	8232	111555	2.23%	0.132%
341	13.030	13.007	13.045	VV	3774	66925	1.34%	0.079%
342	13.050	13.045	13.072	VV	3168	34765	0.69%	0.041%
343	13.108	13.072	13.163	VV	425902	5013052	100.00%	5.916%
344	13.180	13.163	13.219	VV	2696	53386	1.06%	0.063%
345	13.246	13.219	13.251	VV	2442	26927	0.54%	0.032%
346	13.293	13.251	13.311	VV	12237	214365	4.28%	0.253%
347	13.325	13.311	13.372	VV	5832	116233	2.32%	0.137%
348	13.407	13.372	13.441	VV	326662	3766070	75.13%	4.444%
349	13.462	13.441	13.479	VV	32180	398966	7.96%	0.471%
350	13.495	13.479	13.552	VV	30726	416379	8.31%	0.491%
351	13.557	13.552	13.561	VV	541	2540	0.05%	0.003%

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352	13.585	13.561	13.605	VV	9804	132063	2.63%	0.156%
353	13.613	13.605	13.639	VV	3748	53691	1.07%	0.063%
354	13.653	13.639	13.658	VV	1943	17440	0.35%	0.021%
355	13.680	13.658	13.714	VV	14281	229368	4.58%	0.271%
356	13.722	13.714	13.751	VV	3443	61264	1.22%	0.072%
357	13.763	13.751	13.791	VV	3324	51568	1.03%	0.061%
358	13.809	13.791	13.843	VV	6566	97248	1.94%	0.115%
359	13.880	13.843	13.941	VV	22446	437272	8.72%	0.516%
360	14.000	13.941	14.047	VV	35458	605931	12.09%	0.715%
361	14.066	14.047	14.084	VV	3516	47140	0.94%	0.056%
362	14.109	14.084	14.131	VV	21144	283012	5.65%	0.334%
363	14.148	14.131	14.171	VV	15311	218261	4.35%	0.258%
364	14.188	14.171	14.215	VV	8053	119126	2.38%	0.141%
365	14.244	14.215	14.254	VV	6590	99732	1.99%	0.118%
366	14.278	14.254	14.303	VV	12358	223841	4.47%	0.264%
367	14.323	14.303	14.358	VV	9900	173289	3.46%	0.205%
368	14.368	14.358	14.380	VV	2211	26429	0.53%	0.031%
369	14.405	14.380	14.427	VV	4297	83435	1.66%	0.098%
370	14.447	14.427	14.462	VV	2844	50239	1.00%	0.059%
371	14.483	14.462	14.505	VV	2903	57675	1.15%	0.068%
372	14.510	14.505	14.524	VV	1764	17701	0.35%	0.021%
373	14.534	14.524	14.558	VV	1453	17377	0.35%	0.021%
374	14.607	14.558	14.616	PV	1400	27396	0.55%	0.032%
375	14.643	14.616	14.666	VV	3848	82684	1.65%	0.098%
376	14.714	14.666	14.729	VV	5694	155172	3.10%	0.183%
377	14.749	14.729	14.787	VV	16260	266284	5.31%	0.314%
378	14.811	14.787	14.829	VV	4231	78941	1.57%	0.093%
379	14.847	14.829	14.872	VV	4217	69679	1.39%	0.082%
380	14.877	14.872	14.894	VV	1324	13747	0.27%	0.016%
381	14.921	14.894	14.959	VV	24961	394550	7.87%	0.466%
382	14.985	14.959	15.014	VV	37088	559804	11.17%	0.661%
383	15.034	15.014	15.038	VV	11373	125388	2.50%	0.148%
384	15.055	15.038	15.096	VV	21810	364509	7.27%	0.430%
385	15.111	15.096	15.118	VV	2614	32107	0.64%	0.038%
386	15.149	15.118	15.231	VV	95952	1476034	29.44%	1.742%
387	15.256	15.231	15.271	VV	7129	88386	1.76%	0.104%
388	15.300	15.271	15.320	VV	137636	1795002	35.81%	2.118%
389	15.341	15.320	15.379	VV	147051	2016731	40.23%	2.380%
390	15.396	15.379	15.429	VV	5548	117297	2.34%	0.138%
391	15.463	15.429	15.520	VV	33223	601286	11.99%	0.710%
392	15.557	15.520	15.585	VV	6401	141924	2.83%	0.167%
393	15.616	15.585	15.631	VV	10530	163785	3.27%	0.193%
394	15.645	15.631	15.716	VV	10280	232228	4.63%	0.274%
395	15.745	15.716	15.827	VV	43077	952372	19.00%	1.124%
396	15.852	15.827	15.859	VV	2458	30905	0.62%	0.036%
397	15.896	15.859	15.916	VV	7860	161274	3.22%	0.190%
398	15.935	15.916	15.952	VV	5537	93042	1.86%	0.110%
399	15.979	15.952	16.000	VV	23205	334114	6.66%	0.394%
400	16.016	16.000	16.044	VV	9811	161490	3.22%	0.191%
401	16.063	16.044	16.098	VV	6898	131332	2.62%	0.155%
402	16.121	16.098	16.129	VV	13081	155210	3.10%	0.183%
403	16.139	16.129	16.189	VV	14517	273584	5.46%	0.323%
404	16.214	16.189	16.245	VV	6984	141652	2.83%	0.167%

					rteres			
405	16.268	16.245	16.287	VV	3556	61180	1.22%	0.072%
406	16.307	16.287	16.332	VV	4950	70046	1.40%	0.083%
407	16.384	16.332	16.401	VV	5135	143064	2.85%	0.169%
408	16.419	16.401	16.466	VV	5410	124226	2.48%	0.147%
409	16.484	16.466	16.492	VV	971	11150	0.22%	0.013%
410	16.496	16.492	16.502	VV	654	3426	0.07%	0.004%
411	16.515	16.502	16.528	VV	588	7336	0.15%	0.009%
412	16.587	16.528	16.593	PV	2656	48102	0.96%	0.057%
413	16.614	16.593	16.638	VV	4857	82887	1.65%	0.098%
414	16.661	16.638	16.678	VV	6644	98444	1.96%	0.116%
415	16.683	16.678	16.704	VV	4061	54029	1.08%	0.064%
416	16.722	16.704	16.737	VV	4178	70526	1.41%	0.083%
417	16.777	16.737	16.801	VV	19045	439038	8.76%	0.518%
418	16.813	16.801	16.833	VV	8521	132371	2.64%	0.156%
419	16.872	16.833	16.890	VV	171593	2425207	48.38%	2.862%
420	16.899	16.890	16.937	VV	69661	936173	18.67%	1.105%
421	16.946	16.937	16.977	VV	6446	111931	2.23%	0.132%
422	17.003	16.977	17.026	VV	25492	376393	7.51%	0.444%
423	17.038	17.026	17.087	VV	7776	175838	3.51%	0.208%
424	17.099	17.087	17.109	VV	3693	41902	0.84%	0.049%
425	17.130	17.109	17.139	VV	6551	91597	1.83%	0.108%
426	17.194	17.139	17.227	VV	99656	1633782	32.59%	1.928%
427	17.254	17.227	17.320	VV	118343	1806078	36.03%	2.131%
428	17.357	17.320	17.399	VV	33362	700999	13.98%	0.827%
429	17.415	17.399	17.441	VV	10111	185327	3.70%	0.219%
430	17.462	17.441	17.480	VV	6608	125260	2.50%	0.148%
431	17.503	17.480	17.548	VV	8146	238305	4.75%	0.281%
432	17.561	17.548	17.576	VV	4533	65894	1.31%	0.078%
433	17.620	17.576	17.695	VV	12875	533907	10.65%	0.630%
434	17.720	17.695	17.742	VV	11114	222834	4.45%	0.263%
435	17.755	17.742	17.761	VV	8502	89424	1.78%	0.106%
436	17.792	17.761	17.822	VV	48194	771649	15.39%	0.911%
437	17.846	17.822	17.864	VV	6497	129926	2.59%	0.153%
438	17.877	17.864	17.895	VV	6318	96796	1.93%	0.114%
439	17.917	17.895	17.943	VV	11577	219104	4.37%	0.259%
440	17.963	17.943	18.000	VV	6135	142887	2.85%	0.169%
441	18.039	18.000	18.060	VV	5126	134482	2.68%	0.159%
442	18.065	18.060	18.097	VV	3760	70899	1.41%	0.084%
443	18.105	18.097	18.111	VV	2866	21922	0.44%	0.026%
444	18.131	18.111	18.142	VV	3140	47114	0.94%	0.056%
445	18.231	18.142	18.249	VV	12123	412536	8.23%	0.487%
446	18.258	18.249	18.284	VV	7838	126566	2.52%	0.149%
447	18.323	18.284	18.348	VV	13364	335847	6.70%	0.396%
448	18.351	18.348	18.371	VV	10183	124035	2.47%	0.146%
449	18.379	18.371	18.389	VV	8379	87436	1.74%	0.103%
450	18.413	18.389	18.451	VV	13427	388417	7.75%	0.458%
451	18.465	18.451	18.486	VV	13043	227075	4.53%	0.268%
452	18.498	18.486	18.516	VV	8575	134017	2.67%	0.158%
453	18.545	18.516	18.581	VV	27575	656774	13.10%	0.775%
454	18.605	18.581	18.612	VV	31888	450578	8.99%	0.532%
455	18.638	18.612	18.708	VV	93280	2615638	52.18%	3.087%
456	18.721	18.708	18.740	VV	13581	230780	4.60%	0.272%

rteres								
457	18.770	18.740	18.786	VV	22792	462982	9.24%	0.546%
458	18.800	18.786	18.817	VV	21423	345773	6.90%	0.408%
459	18.822	18.817	18.862	VV	16460	324150	6.47%	0.383%
460	18.891	18.862	18.957	VV	79151	1528783	30.50%	1.804%
461	18.976	18.957	19.001	VV	13930	300842	6.00%	0.355%
462	19.029	19.001	19.051	VV	27180	561756	11.21%	0.663%
463	19.065	19.051	19.117	VV	19563	500207	9.98%	0.590%
464	19.127	19.117	19.147	VV	9172	155375	3.10%	0.183%
465	19.171	19.147	19.198	VV	17651	409665	8.17%	0.483%
466	19.204	19.198	19.226	VV	12701	191212	3.81%	0.226%
467	19.231	19.226	19.277	VV	11335	293054	5.85%	0.346%
468	19.287	19.277	19.292	VV	8441	69763	1.39%	0.082%
469	19.301	19.292	19.309	VV	8966	90408	1.80%	0.107%
470	19.334	19.309	19.344	VV	11370	215354	4.30%	0.254%
471	19.350	19.344	19.356	VV	10789	72411	1.44%	0.085%
472	19.437	19.356	19.530	VV	49431	2215337	44.19%	2.614%
473	19.569	19.530	19.586	VV	21270	590952	11.79%	0.697%
474	19.606	19.586	19.639	VV	36606	772332	15.41%	0.911%
475	19.667	19.639	19.690	VV	16351	439194	8.76%	0.518%
476	19.720	19.690	19.752	VV	28141	744770	14.86%	0.879%
477	19.766	19.752	19.801	VV	16647	397410	7.93%	0.469%
478	19.824	19.801	19.834	VV	12280	226769	4.52%	0.268%
479	19.858	19.834	19.872	VV	15245	318293	6.35%	0.376%
480	19.888	19.872	19.903	VV	15314	265704	5.30%	0.314%
481	19.927	19.903	19.948	VV	32774	603900	12.05%	0.713%
482	19.970	19.948	19.999	VV	19142	506348	10.10%	0.598%
483	20.061	19.999	20.099	VV	37115	1339642	26.72%	1.581%
484	20.132	20.099	20.174	VV	37869	1262617	25.19%	1.490%
485	20.179	20.174	20.184	VV	23034	141372	2.82%	0.167%
486	20.219	20.184	20.264	VV	34241	1263837	25.21%	1.492%
487	20.270	20.264	20.301	VV	21548	435138	8.68%	0.514%
488	20.306	20.301	20.331	VV	17745	305812	6.10%	0.361%
489	20.353	20.331	20.375	VV	20821	504237	10.06%	0.595%
490	20.379	20.375	20.383	VV	17562	90728	1.81%	0.107%
491	20.387	20.383	20.401	VV	18025	183299	3.66%	0.216%
492	20.444	20.401	20.491	VV	38569	1522608	30.37%	1.797%
493	20.519	20.491	20.531	VV	24834	563278	11.24%	0.665%
494	20.547	20.531	20.566	VV	26449	506405	10.10%	0.598%
495	20.582	20.566	20.653	VV	26058	1165958	23.26%	1.376%
496	20.671	20.653	20.686	VV	19421	367522	7.33%	0.434%
497	20.691	20.686	20.694	VV	19085	99423	1.98%	0.117%
498	20.723	20.694	20.752	VV	20022	664362	13.25%	0.784%
499	20.757	20.752	20.811	VV	19003	621317	12.39%	0.733%
500	20.837	20.811	20.852	VV	18467	441794	8.81%	0.521%
501	20.858	20.852	20.890	VV	17832	399187	7.96%	0.471%
502	20.895	20.890	20.908	VV	17085	172179	3.43%	0.203%
503	20.919	20.908	20.929	VV	16965	215146	4.29%	0.254%
504	20.968	20.929	21.019	VV	21952	1004313	20.03%	1.185%
505	21.027	21.019	21.041	VV	16303	203605	4.06%	0.240%
506	21.047	21.041	21.063	VV	15491	195617	3.90%	0.231%
507	21.067	21.063	21.071	VV	14884	75740	1.51%	0.089%
508	21.074	21.071	21.078	VV	14855	56252	1.12%	0.066%
509	21.082	21.078	21.109	VV	14535	266812	5.32%	0.315%

					rteres			
510	21.115	21.109	21.126	VV	14855	146371	2.92%	0.173%
511	21.135	21.126	21.151	VV	15122	213304	4.25%	0.252%
512	21.155	21.151	21.184	VV	14174	275820	5.50%	0.326%
513	21.189	21.184	21.217	VV	13247	249796	4.98%	0.295%
514	21.230	21.217	21.241	VV	12705	176043	3.51%	0.208%
515	21.249	21.241	21.261	VV	12298	140909	2.81%	0.166%
516	21.264	21.261	21.270	VV	11840	63082	1.26%	0.074%
517	21.274	21.270	21.278	VV	11668	58157	1.16%	0.069%
518	21.281	21.278	21.303	VV	11637	166187	3.32%	0.196%
519	21.310	21.303	21.322	VV	11614	135935	2.71%	0.160%
520	21.335	21.322	21.362	VV	12106	269154	5.37%	0.318%
521	21.375	21.362	21.421	VV	11990	383268	7.65%	0.452%
522	21.426	21.421	21.435	VV	9484	72113	1.44%	0.085%
523	21.466	21.435	21.473	VV	9702	217308	4.33%	0.256%
524	21.488	21.473	21.502	VV	9499	163043	3.25%	0.192%
525	21.513	21.502	21.527	VV	10301	148405	2.96%	0.175%
526	21.541	21.527	21.560	VV	11035	196029	3.91%	0.231%
527	21.563	21.560	21.579	VV	10129	104854	2.09%	0.124%
528	21.615	21.579	21.642	VV	9186	317582	6.34%	0.375%
529	21.652	21.642	21.668	VV	7806	119137	2.38%	0.141%
530	21.686	21.668	21.712	VV	7495	180043	3.59%	0.212%
531	21.733	21.712	21.737	VV	7022	98970	1.97%	0.117%
532	21.754	21.737	21.759	VV	7444	89502	1.79%	0.106%
533	21.773	21.759	21.794	VV	7499	141815	2.83%	0.167%
534	21.846	21.794	21.856	VV	8061	256607	5.12%	0.303%
535	21.862	21.856	21.892	VV	7341	140425	2.80%	0.166%
536	21.899	21.892	21.907	VV	6231	53092	1.06%	0.063%
537	21.954	21.907	22.015	VV	8593	467992	9.34%	0.552%
538	22.021	22.015	22.059	VV	6209	142203	2.84%	0.168%
539	22.071	22.059	22.078	VV	5323	56804	1.13%	0.067%
540	22.090	22.078	22.134	VV	5417	148166	2.96%	0.175%
541	22.142	22.134	22.161	VV	3338	49711	0.99%	0.059%
542	22.167	22.161	22.184	VV	2940	40102	0.80%	0.047%
543	22.196	22.184	22.224	VV	2834	56736	1.13%	0.067%
544	22.232	22.224	22.242	VV	1975	21961	0.44%	0.026%
545	22.257	22.242	22.266	VV	2784	33252	0.66%	0.039%
546	22.313	22.266	22.332	VV	2391	86185	1.72%	0.102%
547	22.353	22.332	22.431	VV	3449	128813	2.57%	0.152%
548	22.436	22.431	22.460	VV	1519	12396	0.25%	0.015%
549	22.493	22.460	22.501	PBA	391	25464	0.51%	0.030%
Sum of corrected areas:					84735641			

FG100225.M Fri Oct 24 23:58:29 2025



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: SCIA01

ProjectID: 49 Moore Place Belleville

Lab Code: ACE

SDG No.: Q3410

Calibration Sequence : FG100225		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	187365146	110215	FG016731.D
850	99027342	116503	FG016732.D
340	42723530	125657	FG016733.D
170	22222689	130722	FG016734.D
85	10606021	124777	FG016735.D
AVG RF : 121575		% RSD : 6.699	AVG RT : 15.1602

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 49 Moore Place Belleville
Lab Code: ACE SDG No.: Q3410
DataFile: FG016827.D Analyst Name: YP\AJ Analyst Date: 10-24-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	107677466	126679	121575	4.198

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
 Data File : FG016827.D
 Signal(s) : FID1A.ch
 Acq On : 24 Oct 2025 13:26
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/27/2025
 Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
 Quant Time: Oct 24 23:30:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
 Quant Title :
 QLast Update : Fri Oct 03 07:26:13 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...	15.152	6517909	53.117 ug/ml
Target Compounds			
1) N-OCTANE	2.085	6730138	52.200 ug/ml
2) N-DECANE	4.626	6963003	53.534 ug/ml
3) N-DODECANE	6.809	7222321	54.923 ug/ml
4) N-TETRADECANE	8.648	7226280	54.743 ug/ml
5) N-HEXADECANE	10.267	7284945	54.580 ug/ml
6) N-OCTADECANE	11.720	7494161	53.525 ug/ml
7) N-EICOSANE	13.039	7558932	53.266 ug/ml
8) N-DOCOSANE	14.247	7340696	52.967 ug/ml
10) N-TETRACOSANE	15.358	7274753	52.596 ug/ml
11) N-HEXACOSANE	16.386	7163027	52.381 ug/ml
12) N-OCTACOSANE	17.343	7002887	51.736 ug/ml
13) N-TRIACONTANE	18.236	6927268	51.372 ug/ml
14) N-DOTRIACONTANE	19.073	6450561	51.006 ug/ml
15) N-TETRATRIACONTANE	19.861	5408416	51.005 ug/ml
16) N-HEXATRIACONTANE	20.605	4125111	49.418 ug/mlm
17) N-OCTATRIACONTANE	21.381	3180698	45.874 ug/ml
18) N-TETRACONTANE	22.368	2324269	38.926 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016827.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 13:26
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

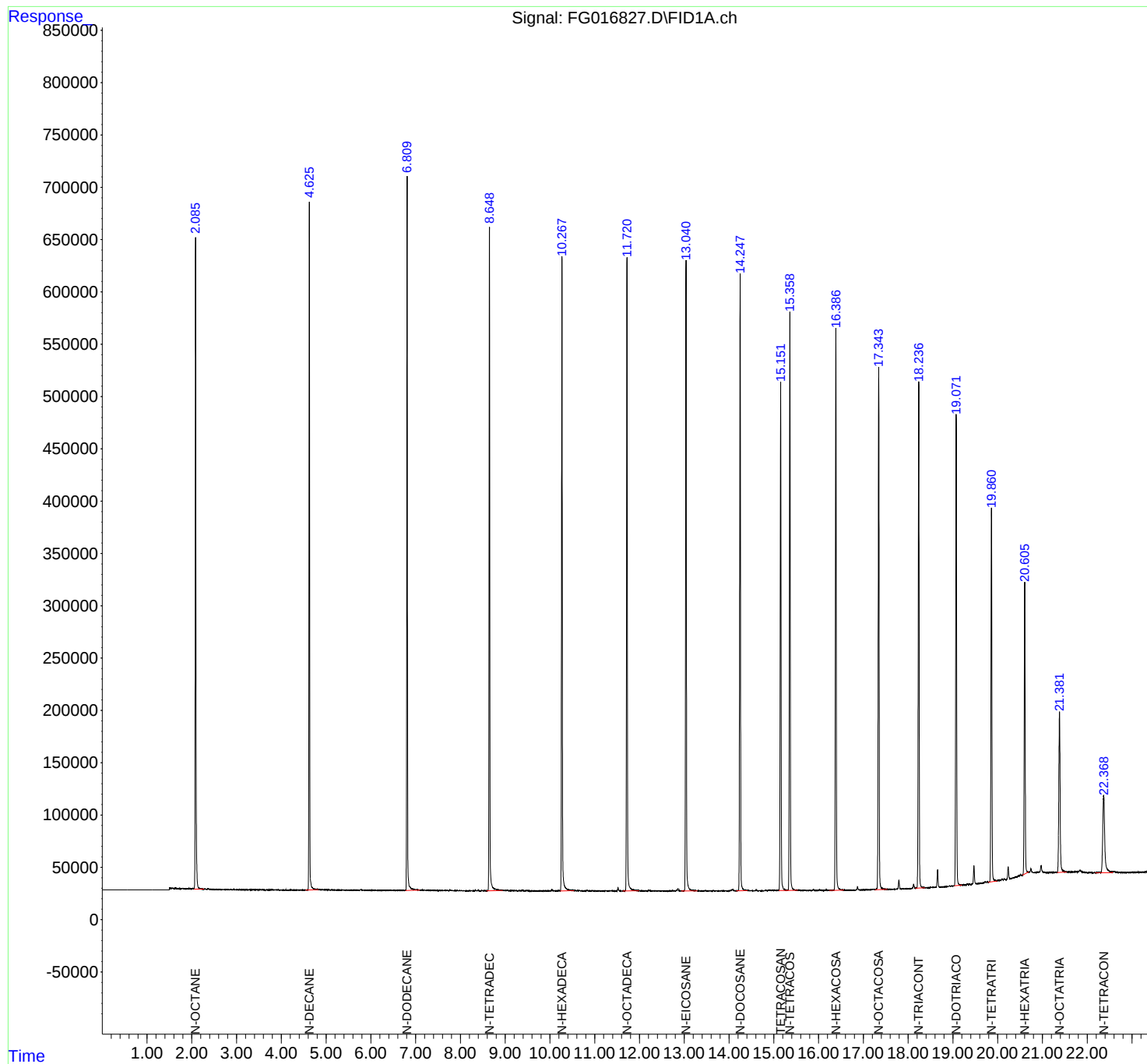
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/27/2025
Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
Quant Time: Oct 24 23:30:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_G

LabSampleId :

50 PPM TRPH STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG10242
Data File : FG016827.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 13:26
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.085	2.047	2.275	VB	620790	6730138	89.04%	5.899%
2	4.626	4.542	4.832	BB	655347	6963003	92.12%	6.103%
3	6.809	6.768	7.095	BB	676225	7222321	95.55%	6.330%
4	8.648	8.585	8.948	BB	635415	7226280	95.60%	6.334%
5	10.267	10.227	10.545	PB	613222	7284945	96.38%	6.385%
6	11.720	11.625	11.985	BB	599770	7494161	99.14%	6.569%
7	13.039	12.932	13.292	BB	601455	7558932	100.00%	6.625%
8	14.247	14.158	14.412	BB	595064	7340696	97.11%	6.434%
9	15.152	15.107	15.292	VV	479615	6517909	86.23%	5.713%
10	15.358	15.292	15.538	VV	550061	7274753	96.24%	6.376%
11	16.386	16.238	16.568	BB	530890	7163027	94.76%	6.278%
12	17.343	17.258	17.538	VB	496852	7002887	92.64%	6.138%
13	18.236	18.162	18.372	VB	480323	6927268	91.64%	6.072%
14	19.073	19.032	19.202	BB	450843	6450561	85.34%	5.654%
15	19.861	19.790	19.985	PV	356371	5408416	71.55%	4.740%
16	20.605	20.549	20.691	M	279116	4126494	54.59%	3.617%
17	21.381	21.325	21.542	PV	153113	3180698	42.08%	2.788%
18	22.367	22.158	22.568	BV	73092	2217536	29.34%	1.944%
Sum of corrected areas:						114090026		

FG100225.M Fri Oct 24 23:52:38 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 49 Moore Place Belleville
Lab Code: ACE SDG No.: Q3410
DataFile: FG016835.D Analyst Name: YP\AJ Analyst Date: 10-24-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	111082609	130685	121575	7.493

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
 Data File : FG016835.D
 Signal(s) : FID1A.ch
 Acq On : 24 Oct 2025 19:26
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: Sample.e
 Quant Time: Oct 24 23:33:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
 Quant Title :
 QLast Update : Fri Oct 03 07:26:13 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...	15.152	6409154	52.231 ug/ml
Target Compounds			
1) N-OCTANE	2.088	7005546	54.336 ug/ml
2) N-DECANE	4.627	7298818	56.116 ug/ml
3) N-DODECANE	6.811	7409705	56.348 ug/ml
4) N-TETRADECANE	8.650	7322896	55.475 ug/ml
5) N-HEXADECANE	10.268	7342045	55.008 ug/ml
6) N-OCTADECANE	11.721	7503801	53.594 ug/ml
7) N-EICOSANE	13.042	7546665	53.179 ug/ml
8) N-DOCOSANE	14.247	7317041	52.797 ug/ml
10) N-TETRACOSANE	15.359	7219389	52.196 ug/ml
11) N-HEXACOSANE	16.387	7082058	51.789 ug/ml
12) N-OCTACOSANE	17.343	6973942	51.522 ug/ml
13) N-TRIACONTANE	18.237	6946881	51.518 ug/ml
14) N-DOTRIACONTANE	19.074	6529672	51.631 ug/ml
15) N-TETRATRIACONTANE	19.861	5610617	52.912 ug/ml
16) N-HEXATRIACONTANE	20.605	4742692	56.816 ug/ml
17) N-OCTATRIACONTANE	21.381	3827571	55.203 ug/ml
18) N-TETRACONTANE	22.366	3403270	56.997 ug/ml

(f)=RT Delta > 1/2 Window

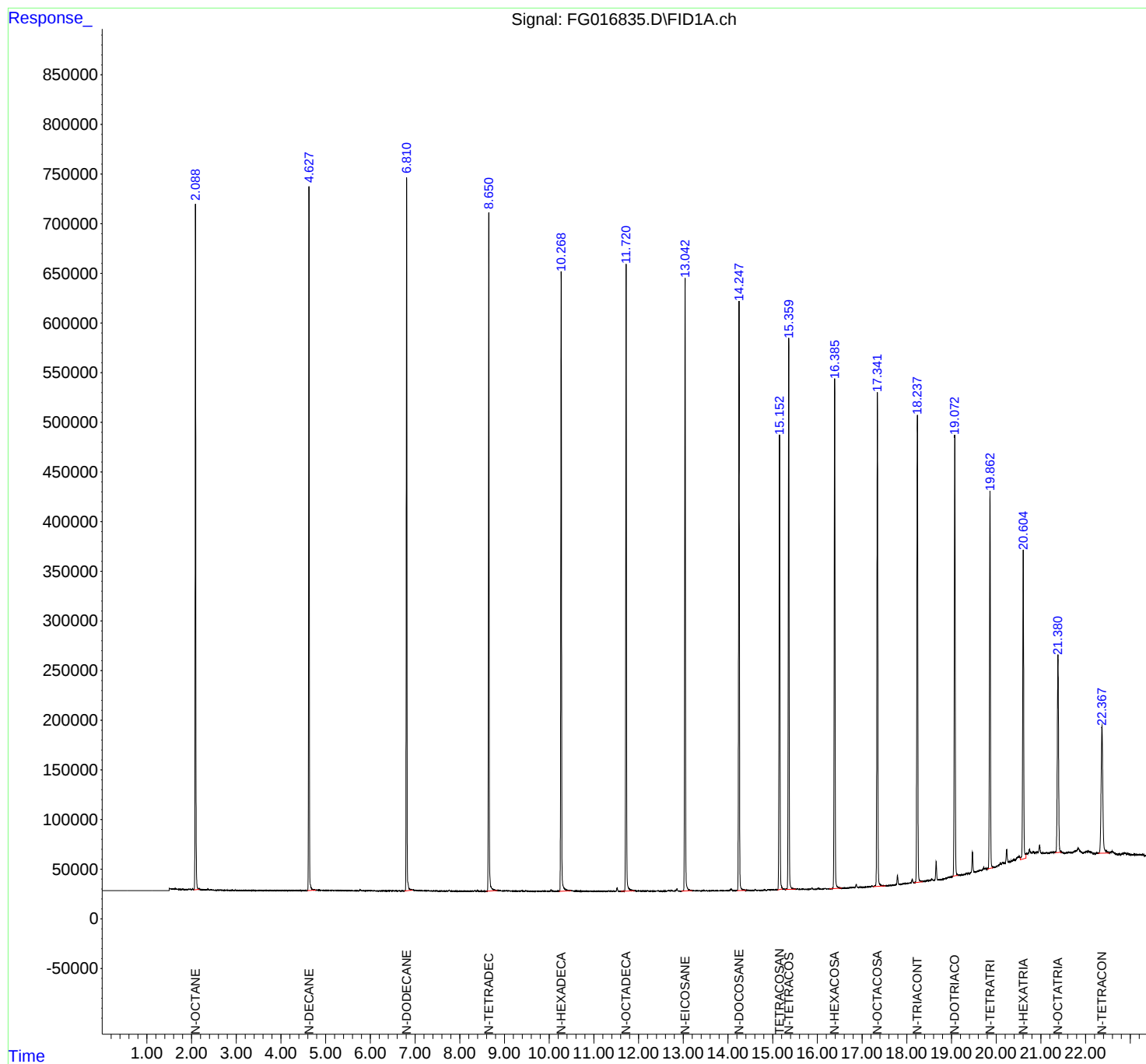
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016835.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 19:26
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: Sample.e
Quant Time: Oct 24 23:33:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016835.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 19:26
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.088	2.051	2.172	PV	689003	7005546	92.83%	5.973%
2	4.627	4.591	4.782	BB	708867	7298818	96.72%	6.223%
3	6.811	6.766	6.942	PV	718960	7409705	98.19%	6.318%
4	8.650	8.594	8.844	BB	679595	7322896	97.03%	6.244%
5	10.268	10.222	10.489	BB	621301	7342045	97.29%	6.260%
6	11.721	11.602	11.912	BB	632065	7503801	99.43%	6.398%
7	13.042	12.952	13.206	BB	615283	7546665	100.00%	6.434%
8	14.247	14.207	14.409	VB	591567	7317041	96.96%	6.239%
9	15.152	15.106	15.225	PV	456547	6409154	84.93%	5.465%
10	15.359	15.277	15.521	BB	555644	7219389	95.66%	6.155%
11	16.387	16.266	16.542	BV	509204	7082058	93.84%	6.038%
12	17.343	17.252	17.526	VV	495564	6973942	92.41%	5.946%
13	18.237	18.161	18.351	PV	470112	6946881	92.05%	5.923%
14	19.074	19.031	19.146	BV	442303	6529672	86.52%	5.567%
15	19.861	19.809	19.924	VV	376038	5610617	74.35%	4.784%
16	20.604	20.561	20.664	M	308608	4537142	60.12%	3.868%
17	21.381	21.320	21.459	VV	198420	3827571	50.72%	3.263%
18	22.366	22.279	22.537	BV	127222	3403270	45.10%	2.902%
Sum of corrected areas:						117286213		

FG100225.M Fri Oct 24 23:57:30 2025

Analytical Sequence

Client: Sciacca General Contractors, LLC

SDG No.: Q3410

Project: 49 Moore Place Belleville

Instrument ID: FID_G

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

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.1602					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	24 Oct 2025 12:56	FG016826.D	15.155	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2025 13:26	FG016827.D	15.152	
PB170250BL	PB170250BL	24 Oct 2025 16:29	FG016829.D	15.150	
PB170250BS	PB170250BS	24 Oct 2025 16:58	FG016830.D	15.149	
WASTE	Q3410-01	24 Oct 2025 17:28	FG016831.D	15.034	*
WASTEMS	Q3410-01MS	24 Oct 2025 17:57	FG016832.D	15.055	*
WASTEMSD	Q3410-01MSD	24 Oct 2025 18:27	FG016833.D	15.054	*
PIBLK02	LBLK02	24 Oct 2025 18:56	FG016834.D	15.151	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2025 19:26	FG016835.D	15.152	



QC SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	
Project:	49 Moore Place Belleville		Date Received:	
Client Sample ID:	PB170250BL		SDG No.:	Q3410
Lab Sample ID:	PB170250BL		Matrix:	SOIL
Analytical Method:	8015D TPH		% Solid:	100
Sample Wt/Vol:	30.01 g	Final Vol: 1 mL	Test:	TPH GC
Prep Method:	SW3541	Prep Date 10/24/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
PHC	Petroleum Hydrocarbons	384	U	1	384	2830	ug/kg	10/24/25 16:29	PB170250
SURROGATES									
16416-32-3	TETRACOSANE-d50	10.9			37 - 130	55%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016829.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 16:29
Operator : YP\AJ
Sample : PB170250BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB170250BL

Integration File: Sample.e
Quant Time: Oct 24 23:31:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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...	15.150	1342438	10.940 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

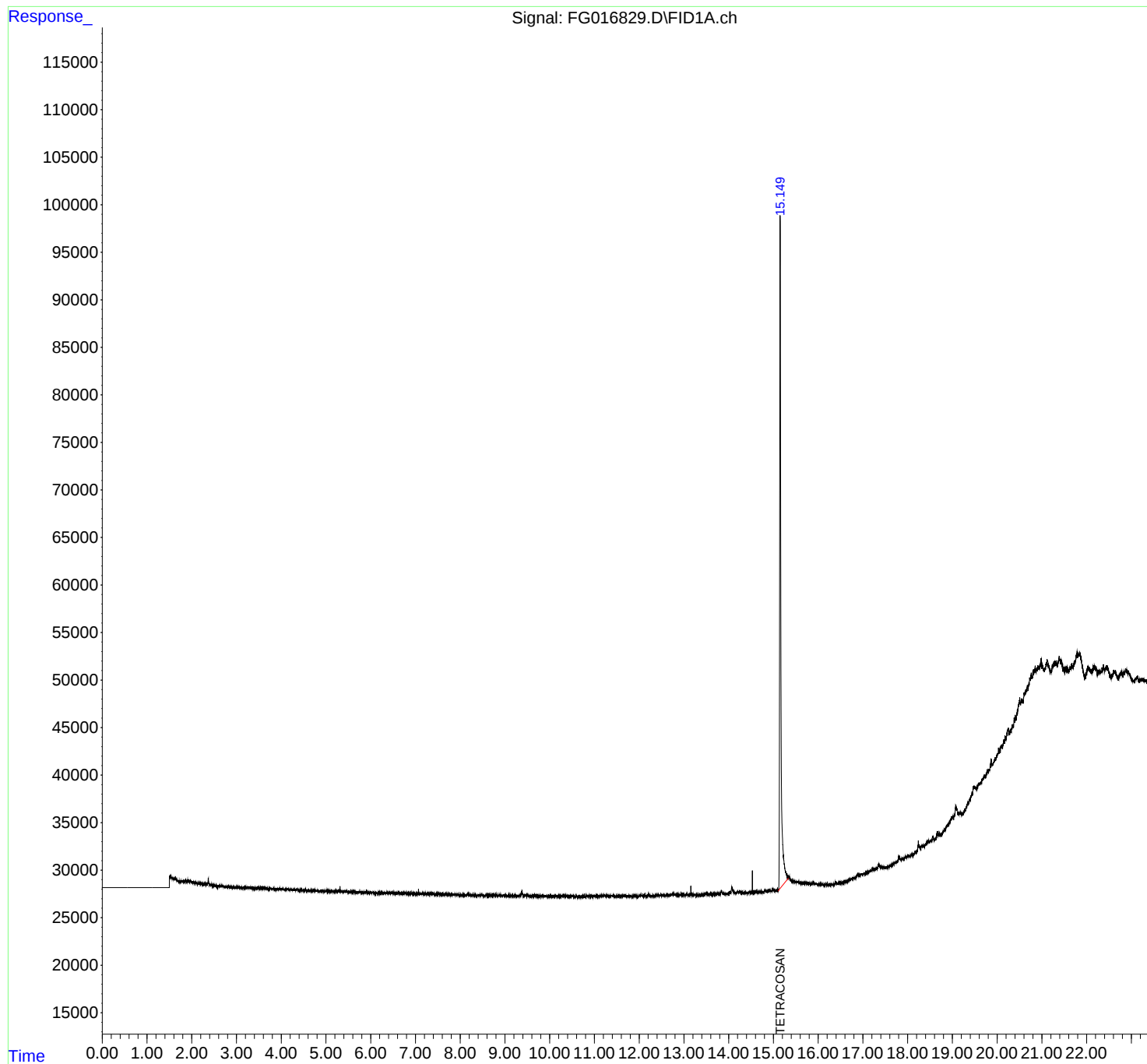
(m)=manual int.

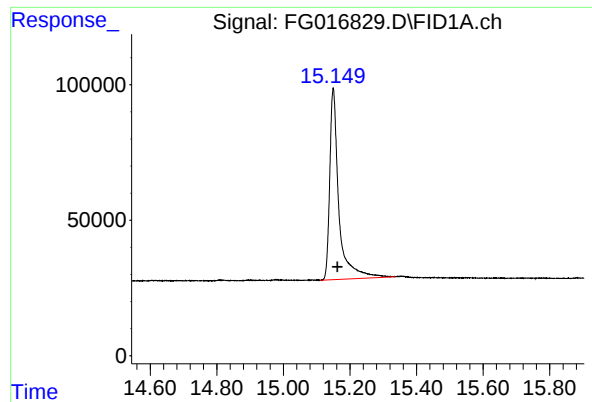
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016829.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 16:29
Operator : YP\AJ
Sample : PB170250BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB170250BL

Integration File: Sample.e
Quant Time: Oct 24 23:31:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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.: 15.150 min
Delta R.T.: -0.012 min
Response: 1342438
Conc: 10.94 ug/ml

Instrument :
FID_G
ClientSampleId :
PB170250BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016829.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 16:29
Sample : PB170250BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.150	15.110	15.337	BV	70717	1342438	100.00%	100.000%
Sum of corrected areas:						1342438		

FG100225.M Fri Oct 24 23:53:32 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	10/24/25
Project:	49 Moore Place Belleville		Date Received:	10/24/25
Client Sample ID:	PIBLK-FG016826.D		SDG No.:	Q3410
Lab Sample ID:	I.BLK-FG016826.D		Matrix:	Water
Analytical Method:	8015D TPH		% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol:	1 mL	Test:
Prep Method:	SW3510	Prep Date:		TPH GC

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
PHC	Petroleum Hydrocarbons	12.0	U	1	12.0	85.0	ug/L	10/24/25	FG102425
SURROGATES									
16416-32-3	TETRACOSANE-d50	14.5			29 - 130	72%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016826.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 12:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Oct 24 23:30:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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...	15.155	1779600	14.503 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

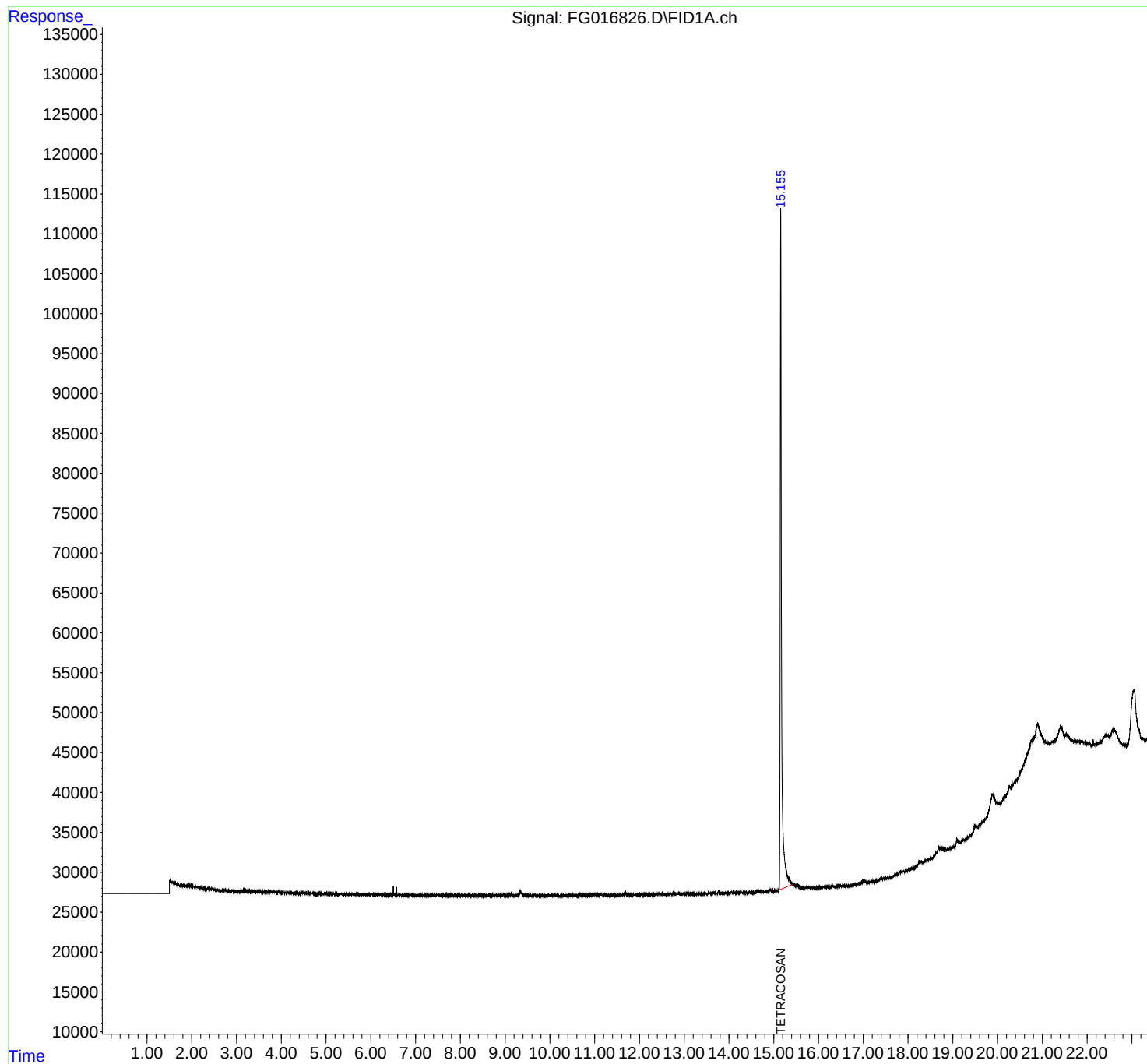
(m)=manual int.

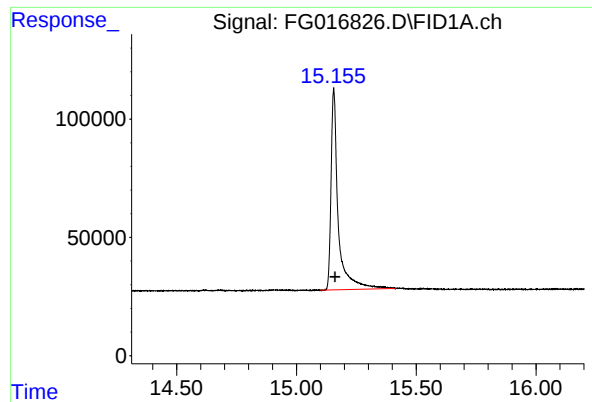
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016826.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 12:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Oct 24 23:30:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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.: 15.155 min
Delta R.T.: -0.006 min
Response: 1779600
Conc: 14.50 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016826.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 12:56
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.155	15.099	15.414	BB	85178	1779600	100.00%	100.000%
Sum of corrected areas:						1779600		

FG100225.M Fri Oct 24 23:50:30 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	10/24/25
Project:	49 Moore Place Belleville		Date Received:	10/24/25
Client Sample ID:	PIBLK-FG016834.D		SDG No.:	Q3410
Lab Sample ID:	I.BLK-FG016834.D		Matrix:	Water
Analytical Method:	8015D TPH		% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol:	1 mL	Test:
Prep Method:	SW3510	Prep Date:		TPH GC

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
PHC	Petroleum Hydrocarbons	12.0	U	1	12.0	85.0	ug/L	10/24/25	FG102425
SURROGATES									
16416-32-3	TETRACOSANE-d50	14.3			29 - 130	72%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016834.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 18:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Oct 24 23:33:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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...	15.151	1758805	14.333 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

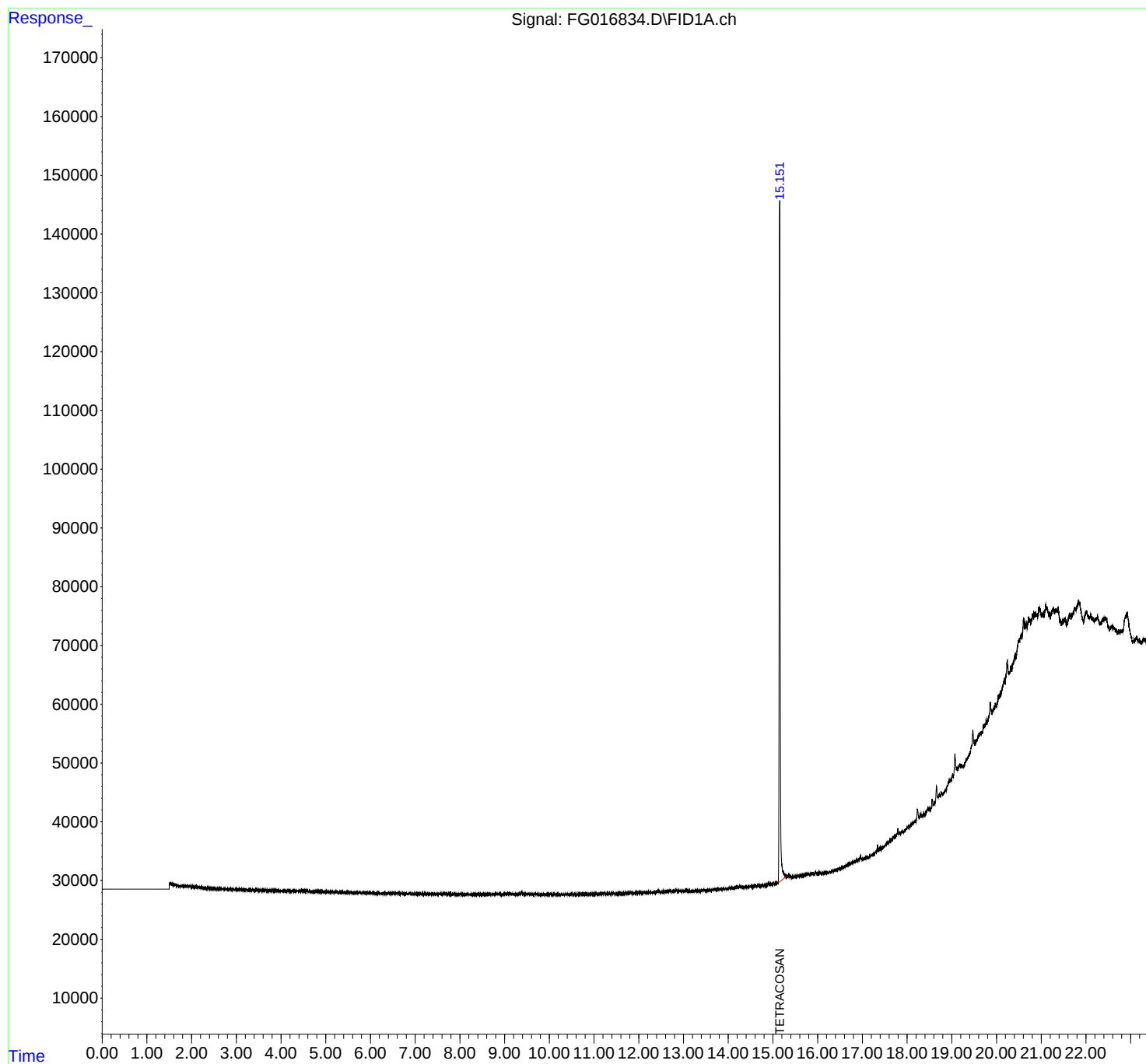
(m)=manual int.

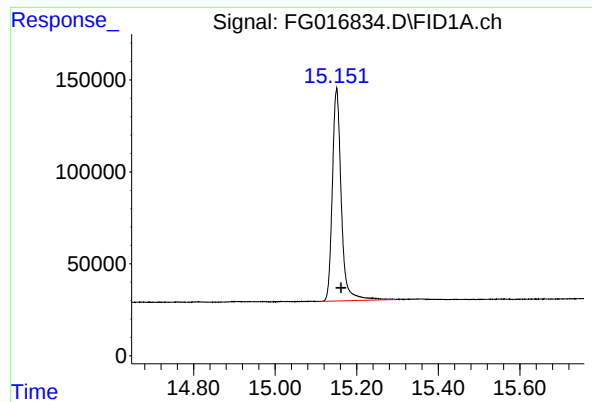
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016834.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 18:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Oct 24 23:33:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 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.: 15.151 min
Delta R.T.: -0.011 min
Response: 1758805
Conc: 14.33 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016834.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 18:56
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.151	15.110	15.295	BV	115091	1758805	100.00%	100.000%
Sum of corrected areas:						1758805		

FG100225.M Fri Oct 24 23:56:09 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	
Project:	49 Moore Place Belleville		Date Received:	
Client Sample ID:	PB170250BS		SDG No.:	Q3410
Lab Sample ID:	PB170250BS		Matrix:	SOIL
Analytical Method:	8015D TPH		% Solid:	100
Sample Wt/Vol:	30.02 g	Final Vol: 1 mL	Test:	TPH GC
Prep Method:	SW3541	Prep Date 10/24/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
PHC	Petroleum Hydrocarbons	8830		1	384	2830	ug/kg	10/24/25 16:58	PB170250
SURROGATES									
16416-32-3	TETRACOSANE-d50	16.3			37 - 130	81%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
 Data File : FG016830.D
 Signal(s) : FID1A.ch
 Acq On : 24 Oct 2025 16:58
 Operator : YP\AJ
 Sample : PB170250BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB170250BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/27/2025
 Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
 Quant Time: Oct 24 23:31:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
 Quant Title :
 QLast Update : Fri Oct 03 07:26:13 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...	15.149	1994659	16.255 ug/ml
Target Compounds			
1) N-OCTANE	2.090	1785875	13.851 ug/ml
2) N-DECANE	4.625	2043536	15.711 ug/ml
3) N-DODECANE	6.807	2173291	16.527 ug/ml
4) N-TETRADECANE	8.647	2112240	16.001 ug/ml
5) N-HEXADECANE	10.265	2094663	15.694 ug/ml
6) N-OCTADECANE	11.718	2204128	15.742 ug/ml
7) N-EICOSANE	13.037	2279655	16.064 ug/ml
8) N-DOCOSANE	14.243	2199504	15.871 ug/ml
10) N-TETRACOSANE	15.355	2175470	15.728 ug/ml
11) N-HEXACOSANE	16.383	2078180	15.197 ug/ml
12) N-OCTACOSANE	17.339	2077090	15.345 ug/ml
13) N-TRIACONTANE	18.232	2050352	15.205 ug/ml
14) N-DOTRIACONTANE	19.070	1908084	15.088 ug/ml
15) N-TETRATRIACONTANE	19.858	1600604	15.095 ug/mlm
16) N-HEXATRIACONTANE	20.603	1275830	15.284 ug/mlm
17) N-OCTATRIACONTANE	21.376	1102802	15.905 ug/mlm
18) N-TETRACONTANE	22.364	1024632	17.160 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016830.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 16:58
Operator : YP\AJ
Sample : PB170250BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

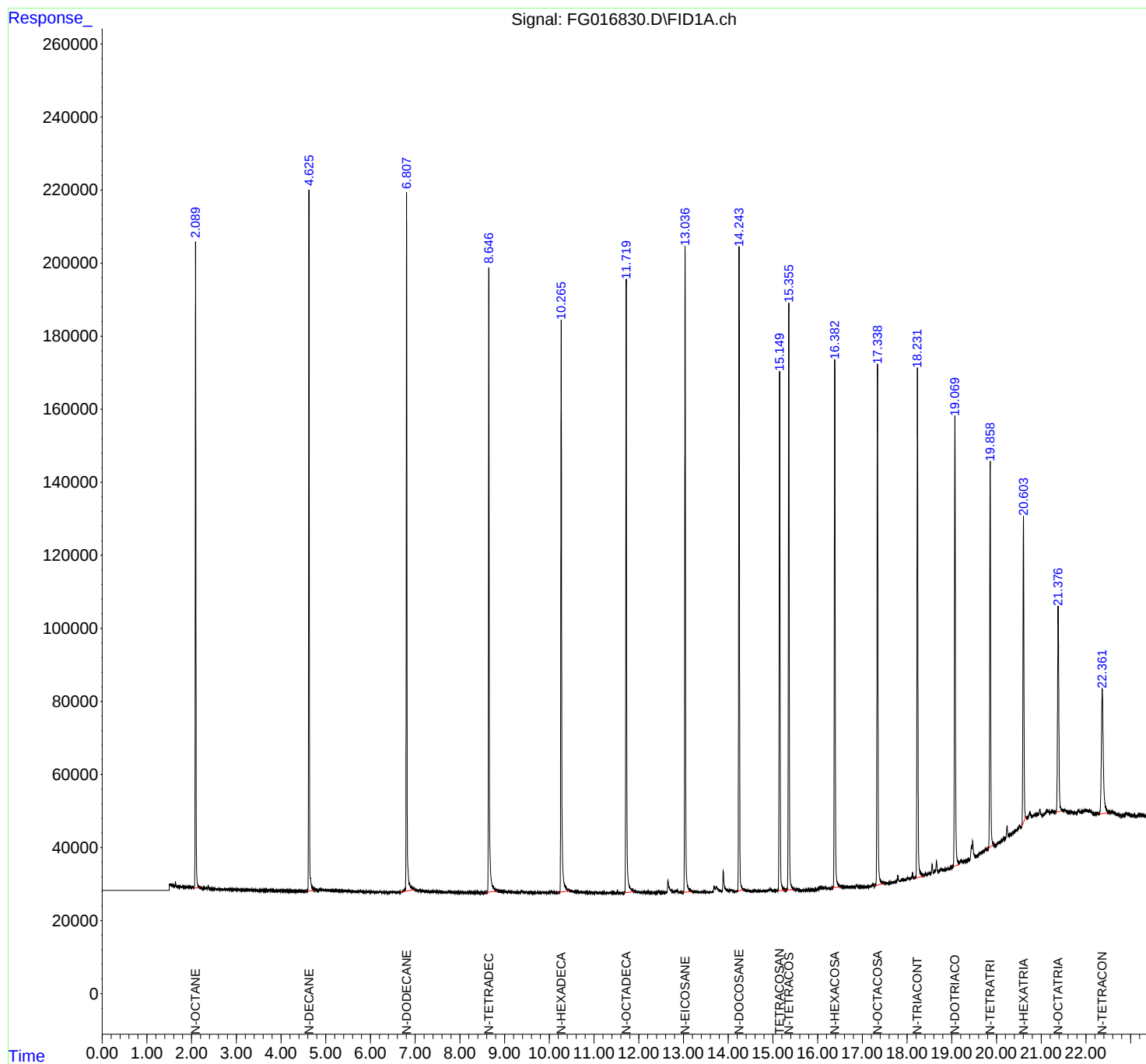
Instrument :
FID_G
ClientSampleId :
PB170250BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/27/2025
Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
Quant Time: Oct 24 23:31:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_G

ClientSampleId :

PB170250BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG10242
Data File : FG016830.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 16:58
Sample : PB170250BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.090	2.050	2.189	BB	176667	1785875	78.34%	5.222%
2	4.625	4.574	4.760	BB	192247	2043536	89.64%	5.975%
3	6.807	6.677	6.987	BB	191134	2173291	95.33%	6.354%
4	8.647	8.580	8.840	BB	171038	2112240	92.66%	6.176%
5	10.265	10.194	10.459	BB	156376	2094663	91.89%	6.124%
6	11.718	11.655	11.899	BB	168272	2204128	96.69%	6.444%
7	13.037	12.962	13.194	BB	176738	2279655	100.00%	6.665%
8	14.243	14.205	14.344	BB	176734	2199504	96.48%	6.431%
9	15.149	15.110	15.277	BB	142416	1994659	87.50%	5.832%
10	15.355	15.292	15.485	BB	160866	2175470	95.43%	6.361%
11	16.383	16.310	16.499	BB	144623	2078180	91.16%	6.076%
12	17.339	17.259	17.484	BB	142465	2077090	91.11%	6.073%
13	18.232	18.172	18.364	BB	139435	2050352	89.94%	5.995%
14	19.070	19.030	19.165	BV	122623	1908084	83.70%	5.579%
15	19.858	19.809	19.943	M	105750	1607241	70.50%	4.699%
16	20.603	20.565	20.681	M	84150	1293770	56.75%	3.783%
17	21.376	21.322	21.471	M	56357	1099504	48.23%	3.215%
18	22.364	22.291	22.492	BV	33721	1024632	44.95%	2.996%
Sum of corrected areas:							34201873	

FG100225.M Fri Oct 24 23:55:45 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	10/20/25
Project:	49 Moore Place Belleville		Date Received:	10/20/25
Client Sample ID:	WASTEMS		SDG No.:	Q3410
Lab Sample ID:	Q3410-01MS		Matrix:	SOIL
Analytical Method:	8015D TPH		% Solid:	80.9
Sample Wt/Vol:	30.09 g	Final Vol:	1 mL	Test:
Prep Method:	SW3541	Prep Date	10/24/25	TPH GC

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
PHC	Petroleum Hydrocarbons	42000		1	473	3490	ug/kg	10/24/25 17:57	PB170250
SURROGATES									
16416-32-3	TETRACOSANE-d50	10.9			37 - 130	54%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
 Data File : FG016832.D
 Signal(s) : FID1A.ch
 Acq On : 24 Oct 2025 17:57
 Operator : YP\AJ
 Sample : Q3410-01MS
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 WASTEMS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/27/2025
 Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
 Quant Time: Oct 24 23:32:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
 Quant Title :
 QLast Update : Fri Oct 03 07:26:13 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...	15.149	1334731	10.877 ug/ml
Target Compounds			
1) N-OCTANE	2.087	1825265	14.157 ug/ml
2) N-DECANE	4.625	2092582	16.088 ug/ml
3) N-DODECANE	6.807	2173718	16.530 ug/ml
4) N-TETRADECANE	8.647	2023899	15.332 ug/ml
5) N-HEXADECANE	10.264	2163284	16.208 ug/ml
6) N-OCTADECANE	11.718	2299645	16.425 ug/ml
7) N-EICOSANE	13.038	2503192	17.639 ug/ml
8) N-DOCOSANE	14.245	2468706	17.813 ug/ml
10) N-TETRACOSANE	15.350	4198486	30.355 ug/ml
11) N-HEXACOSANE	16.384	2461635	18.001 ug/ml
12) N-OCTACOSANE	17.340	2589927	19.134 ug/mlm
13) N-TRIACONTANE	18.235	2461473	18.254 ug/ml
14) N-DOTRIACONTANE	19.070	2525283	19.968 ug/mlm
15) N-TETRATRIACONTANE	19.861	2886888	27.225 ug/mlm
16) N-HEXATRIACONTANE	20.604	2998865	35.926 ug/mlm
17) N-OCTATRIACONTANE	21.382	2671685	38.532 ug/mlm
18) N-TETRACONTANE	22.367	2501257	41.890 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016832.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 17:57
Operator : YP\AJ
Sample : Q3410-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

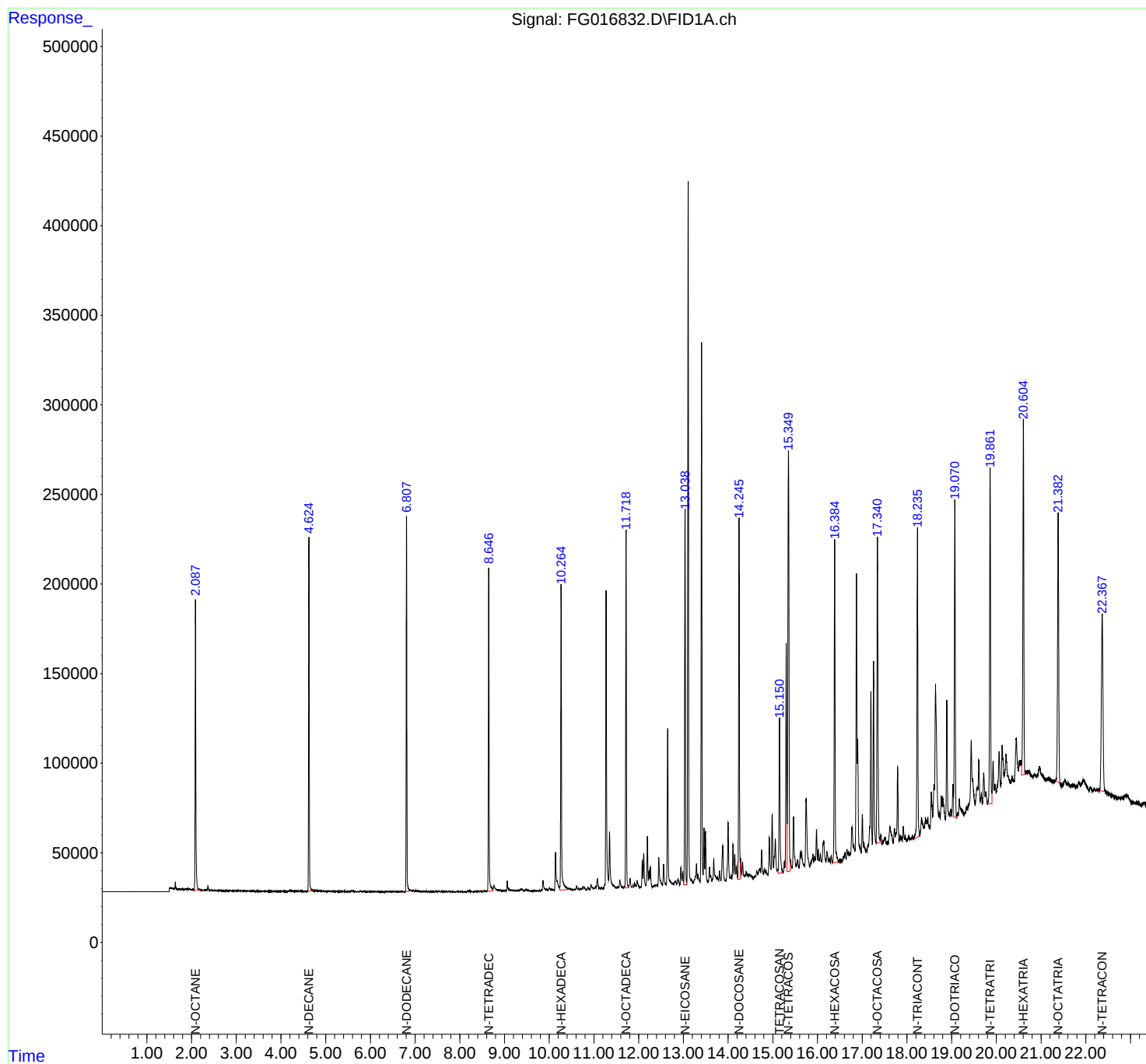
Instrument :
FID_G
ClientSampleId :
WASTEMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/27/2025
Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
Quant Time: Oct 24 23:32:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_G

ClientSampleId :

WASTEMS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG10242
Data File : FG016832.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 17:57
Sample : Q3410-01MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.912	1.900	1.953	BV	644	8736	0.19%	0.007%
2	1.969	1.953	1.982	VV	369	4057	0.09%	0.003%
3	1.988	1.982	2.009	VV	184	1374	0.03%	0.001%
4	2.024	2.009	2.051	PV	398	4518	0.10%	0.004%
5	2.087	2.051	2.210	VV	162095	1832032	39.35%	1.457%
6	2.211	2.210	2.224	VV	167	764	0.02%	0.001%
7	2.229	2.224	2.234	VV	84	333	0.01%	0.000%
8	2.238	2.234	2.242	VV	125	318	0.01%	0.000%
9	2.246	2.242	2.252	VV	136	422	0.01%	0.000%
10	2.256	2.252	2.262	VV	109	391	0.01%	0.000%
11	2.269	2.262	2.275	VV	75	458	0.01%	0.000%
12	2.294	2.275	2.346	VV	338	5390	0.12%	0.004%
13	2.366	2.346	2.410	PV	2635	30997	0.67%	0.025%
14	2.414	2.410	2.419	VV	165	783	0.02%	0.001%
15	2.433	2.419	2.488	VV	281	5933	0.13%	0.005%
16	2.505	2.488	2.517	VV	132	1216	0.03%	0.001%
17	2.521	2.517	2.545	PV	133	1172	0.03%	0.001%
18	2.566	2.545	2.591	VV	148	2679	0.06%	0.002%
19	2.601	2.591	2.637	VV	148	2350	0.05%	0.002%
20	2.639	2.637	2.645	VV	168	320	0.01%	0.000%
21	2.649	2.645	2.653	VV	89	316	0.01%	0.000%
22	2.656	2.653	2.665	VV	94	520	0.01%	0.000%
23	2.667	2.665	2.673	VV	107	450	0.01%	0.000%
24	2.676	2.673	2.693	VV	80	1156	0.02%	0.001%
25	2.697	2.693	2.724	VV	180	1721	0.04%	0.001%
26	2.729	2.724	2.735	PV	117	382	0.01%	0.000%
27	2.738	2.735	2.760	VV	150	976	0.02%	0.001%
28	2.786	2.760	2.820	VV	329	6566	0.14%	0.005%
29	2.826	2.820	2.830	VV	184	592	0.01%	0.000%
30	2.856	2.830	2.879	VV	198	3577	0.08%	0.003%
31	2.885	2.879	2.901	VV	181	1733	0.04%	0.001%
32	2.907	2.901	2.915	VV	140	765	0.02%	0.001%
33	2.926	2.915	2.952	VV	193	2944	0.06%	0.002%
34	2.956	2.952	2.972	VV	139	1236	0.03%	0.001%
35	3.041	2.972	3.070	VV	336	11106	0.24%	0.009%
36	3.097	3.070	3.114	VV	294	4874	0.10%	0.004%

					retention			
37	3.116	3.114	3.137	VV	249	2212	0.05%	0.002%
38	3.143	3.137	3.149	VV	193	945	0.01%	0.001%
39	3.154	3.149	3.167	VV	158	1433	0.01%	0.001%
40	3.170	3.167	3.197	VV	159	2321	0.01%	0.001%
41	3.208	3.197	3.224	VV	198	2032	0.01%	0.001%
42	3.230	3.224	3.249	VV	167	1571	0.01%	0.001%
43	3.267	3.249	3.288	VV	293	4181	0.09%	0.003%
44	3.293	3.288	3.331	VV	190	3204	0.07%	0.003%
45	3.338	3.331	3.345	VV	131	764	0.02%	0.001%
46	3.366	3.345	3.385	VV	199	3542	0.08%	0.003%
47	3.391	3.385	3.415	VV	148	1929	0.04%	0.002%
48	3.418	3.415	3.435	VV	162	999	0.02%	0.001%
49	3.457	3.435	3.468	VV	112	1425	0.03%	0.001%
50	3.480	3.468	3.510	VV	151	3013	0.06%	0.002%
51	3.515	3.510	3.528	VV	163	1222	0.03%	0.001%
52	3.534	3.528	3.541	VV	238	1046	0.02%	0.001%
53	3.545	3.541	3.553	VV	140	692	0.01%	0.001%
54	3.576	3.553	3.617	VV	316	6452	0.14%	0.005%
55	3.630	3.617	3.636	VV	170	1301	0.03%	0.001%
56	3.645	3.636	3.670	VV	247	3251	0.07%	0.003%
57	3.690	3.670	3.701	VV	303	3803	0.08%	0.003%
58	3.707	3.701	3.713	VV	203	1173	0.03%	0.001%
59	3.720	3.713	3.745	VV	256	3047	0.07%	0.002%
60	3.760	3.745	3.776	VV	169	2209	0.05%	0.002%
61	3.780	3.776	3.786	VV	117	628	0.01%	0.000%
62	3.794	3.786	3.799	VV	161	850	0.02%	0.001%
63	3.816	3.799	3.835	PV	316	4700	0.10%	0.004%
64	3.871	3.835	3.916	VV	485	11521	0.25%	0.009%
65	3.932	3.916	3.947	VV	234	3155	0.07%	0.003%
66	3.952	3.947	3.991	VV	213	3663	0.08%	0.003%
67	4.004	3.991	4.024	VV	217	3030	0.07%	0.002%
68	4.033	4.024	4.040	VV	141	1269	0.03%	0.001%
69	4.052	4.040	4.055	VV	222	1376	0.03%	0.001%
70	4.059	4.055	4.066	VV	195	980	0.02%	0.001%
71	4.072	4.066	4.078	VV	230	1063	0.02%	0.001%
72	4.087	4.078	4.121	VV	239	3303	0.07%	0.003%
73	4.137	4.121	4.147	PV	170	1632	0.04%	0.001%
74	4.206	4.147	4.240	VV	671	24657	0.53%	0.020%
75	4.245	4.240	4.249	VV	495	2551	0.05%	0.002%
76	4.255	4.249	4.279	VV	517	7894	0.17%	0.006%
77	4.283	4.279	4.318	VV	466	8038	0.17%	0.006%
78	4.336	4.318	4.341	VV	388	4260	0.09%	0.003%
79	4.352	4.341	4.361	VV	381	3828	0.08%	0.003%
80	4.373	4.361	4.380	VV	315	3467	0.07%	0.003%
81	4.395	4.380	4.420	VV	433	8338	0.18%	0.007%
82	4.441	4.420	4.494	VV	588	15217	0.33%	0.012%
83	4.503	4.494	4.508	VV	254	1912	0.04%	0.002%
84	4.511	4.508	4.528	VV	271	2660	0.06%	0.002%
85	4.533	4.528	4.547	VV	255	2418	0.05%	0.002%
86	4.558	4.547	4.564	VV	305	2454	0.05%	0.002%
87	4.569	4.564	4.580	VV	265	2367	0.05%	0.002%
88	4.625	4.580	4.737	VV	197768	2130599	45.76%	1.695%
89	4.740	4.737	4.752	VV	685	5931	0.13%	0.005%

Instrument :

FID_G

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

Instrument : FID_G									
ClientSampleId : WASTEMS									
90	4.754	4.752	4.774	VV	701	7350	0.16%	0.006%	
91	4.797	4.774	4.841	VV	866	24271			Manual IntegrationsAPPROVED
92	4.848	4.841	4.895	VV	604	16475			
93	4.907	4.895	4.924	VV	521	7712			
94	4.940	4.924	4.963	VV	482	9163			
95	4.966	4.963	5.012	VV	355	9122			
96	5.045	5.012	5.051	VV	410	7643	0.16%	0.006%	
97	5.054	5.051	5.059	VV	343	1432	0.03%	0.001%	
98	5.075	5.059	5.096	VV	383	7346	0.16%	0.006%	
99	5.105	5.096	5.141	VV	393	8990	0.19%	0.007%	
100	5.144	5.141	5.148	VV	336	1271	0.03%	0.001%	
101	5.153	5.148	5.181	VV	323	5609	0.12%	0.004%	
102	5.184	5.181	5.196	VV	331	2628	0.06%	0.002%	
103	5.214	5.196	5.232	VV	338	5632	0.12%	0.004%	
104	5.239	5.232	5.266	VV	259	4660	0.10%	0.004%	
105	5.286	5.266	5.312	VV	427	7870	0.17%	0.006%	
106	5.345	5.312	5.374	VV	447	10609	0.23%	0.008%	
107	5.392	5.374	5.398	VV	276	3169	0.07%	0.003%	
108	5.424	5.398	5.435	VV	303	4538	0.10%	0.004%	
109	5.454	5.435	5.459	VV	242	3097	0.07%	0.002%	
110	5.467	5.459	5.488	VV	247	3573	0.08%	0.003%	
111	5.494	5.488	5.541	VV	213	5194	0.11%	0.004%	
112	5.545	5.541	5.551	VV	180	853	0.02%	0.001%	
113	5.558	5.551	5.561	VV	132	713	0.02%	0.001%	
114	5.586	5.561	5.642	VV	706	18996	0.41%	0.015%	
115	5.649	5.642	5.661	VV	257	1925	0.04%	0.002%	
116	5.668	5.661	5.692	VV	151	1968	0.04%	0.002%	
117	5.704	5.692	5.731	VV	146	2394	0.05%	0.002%	
118	5.736	5.731	5.744	VV	129	776	0.02%	0.001%	
119	5.771	5.744	5.810	VV	588	10060	0.22%	0.008%	
120	5.840	5.810	5.871	VV	697	10424	0.22%	0.008%	
121	5.890	5.871	5.909	VV	284	4827	0.10%	0.004%	
122	5.916	5.909	5.929	VV	170	1694	0.04%	0.001%	
123	5.938	5.929	5.942	VV	158	1068	0.02%	0.001%	
124	5.966	5.942	5.994	VV	230	4179	0.09%	0.003%	
125	6.001	5.994	6.005	VV	75	465	0.01%	0.000%	
126	6.027	6.005	6.051	VV	319	5453	0.12%	0.004%	
127	6.060	6.051	6.069	VV	175	1298	0.03%	0.001%	
128	6.096	6.069	6.105	VV	215	3303	0.07%	0.003%	
129	6.112	6.105	6.120	VV	157	1104	0.02%	0.001%	
130	6.146	6.120	6.169	VV	203	3923	0.08%	0.003%	
131	6.176	6.169	6.188	VV	127	651	0.01%	0.001%	
132	6.200	6.188	6.222	PV	62	606	0.01%	0.000%	
133	6.226	6.222	6.238	VV	51	374	0.01%	0.000%	
134	6.244	6.238	6.266	VV	109	1177	0.03%	0.001%	
135	6.268	6.266	6.277	VV	74	281	0.01%	0.000%	
136	6.287	6.277	6.299	VV	65	679	0.01%	0.001%	
137	6.306	6.299	6.312	VV	66	318	0.01%	0.000%	
138	6.321	6.312	6.331	PV	98	659	0.01%	0.001%	
139	6.351	6.331	6.391	VV	263	6847	0.15%	0.005%	
140	6.399	6.391	6.408	VV	172	1542	0.03%	0.001%	
141	6.413	6.408	6.427	VV	198	1867	0.04%	0.001%	

Instrument : FID_G									
ClientSampleId : WASTEMS									
Manual IntegrationsAPPROVED									
Reviewed By :Yogesh Patel 10/27/2025									
Supervised By :mohammad ahmed 10/28/2025									
				rtetes					
142	6.433	6.427	6.457	VV	143	2661	0.06%	0.002%	
143	6.519	6.486	6.553	VV	573	10161			
144	6.562	6.553	6.597	VV	196	3232			
145	6.604	6.597	6.632	VV	158	2157			
146	6.653	6.632	6.672	VV	280	4232			
147	6.693	6.672	6.722	VV	285	5958			
148	6.729	6.722	6.770	VV	166	3623	0.08%	0.003%	
149	6.807	6.770	6.911	VV	209480	2203323	47.32%	1.753%	
150	6.918	6.911	6.949	VV	744	15594	0.33%	0.012%	
151	6.961	6.949	6.984	VV	762	13156	0.28%	0.010%	
152	6.992	6.984	7.004	VV	529	5675	0.12%	0.005%	
153	7.026	7.004	7.056	VV	725	16131	0.35%	0.013%	
154	7.077	7.056	7.120	VV	660	17680	0.38%	0.014%	
155	7.136	7.120	7.199	VV	308	10156	0.22%	0.008%	
156	7.205	7.199	7.254	VV	251	6134	0.13%	0.005%	
157	7.264	7.254	7.299	VV	282	3892	0.08%	0.003%	
158	7.347	7.299	7.364	VV	302	7255	0.16%	0.006%	
159	7.385	7.364	7.404	VV	255	4937	0.11%	0.004%	
160	7.407	7.404	7.421	VV	272	1945	0.04%	0.002%	
161	7.457	7.421	7.512	VV	269	12435	0.27%	0.010%	
162	7.529	7.512	7.575	VV	272	7759	0.17%	0.006%	
163	7.595	7.575	7.624	VV	392	7043	0.15%	0.006%	
164	7.639	7.624	7.694	VV	282	8873	0.19%	0.007%	
165	7.705	7.694	7.736	VV	197	3859	0.08%	0.003%	
166	7.761	7.736	7.811	VV	634	11764	0.25%	0.009%	
167	7.838	7.811	7.871	VV	283	5571	0.12%	0.004%	
168	7.883	7.871	7.911	VV	175	3235	0.07%	0.003%	
169	7.936	7.911	7.946	VV	210	3303	0.07%	0.003%	
170	7.962	7.946	7.987	VV	283	4733	0.10%	0.004%	
171	8.003	7.987	8.018	VV	119	1967	0.04%	0.002%	
172	8.051	8.018	8.084	VV	420	7366	0.16%	0.006%	
173	8.130	8.084	8.159	PV	213	4079	0.09%	0.003%	
174	8.184	8.159	8.206	PV	699	11022	0.24%	0.009%	
175	8.222	8.206	8.281	VV	608	11501	0.25%	0.009%	
176	8.287	8.281	8.319	VV	165	1876	0.04%	0.001%	
177	8.338	8.319	8.362	VV	312	4541	0.10%	0.004%	
178	8.404	8.362	8.442	VV	552	11220	0.24%	0.009%	
179	8.472	8.442	8.495	VV	269	5593	0.12%	0.004%	
180	8.503	8.495	8.520	VV	232	2028	0.04%	0.002%	
181	8.575	8.520	8.602	VV	544	15076	0.32%	0.012%	
182	8.647	8.602	8.742	VV	180772	2058113	44.20%	1.637%	
183	8.766	8.742	8.873	VV	3385	126064	2.71%	0.100%	
184	8.882	8.873	8.952	VV	720	26575	0.57%	0.021%	
185	8.970	8.952	8.992	VV	481	10252	0.22%	0.008%	
186	9.014	8.992	9.036	VV	655	13712	0.29%	0.011%	
187	9.061	9.036	9.127	VV	5945	106673	2.29%	0.085%	
188	9.149	9.127	9.174	VV	967	22043	0.47%	0.018%	
189	9.192	9.174	9.237	VV	867	22027	0.47%	0.018%	
190	9.244	9.237	9.272	VV	412	7168	0.15%	0.006%	
191	9.306	9.272	9.326	VV	702	14615	0.31%	0.012%	
192	9.350	9.326	9.365	VV	1155	19728	0.42%	0.016%	
193	9.379	9.365	9.457	VV	1140	40105	0.86%	0.032%	
194	9.479	9.457	9.502	VV	1286	21075	0.45%	0.017%	

					rters				
195	9.518	9.502	9.617	VV	723	18906	0.41%	0.015%	
196	9.634	9.617	9.652	VV	427	4983			
197	9.674	9.652	9.707	VV	503	7675			
198	9.721	9.707	9.748	VV	205	3799			
199	9.771	9.748	9.797	VV	391	6346			
200	9.825	9.797	9.837	PV	648	9077			
201	9.861	9.837	9.918	VV	5875	117762	2.53%	0.094%	
202	9.934	9.918	9.964	VV	1087	20832	0.45%	0.017%	
203	10.008	9.964	10.029	VV	1751	39331	0.84%	0.031%	
204	10.041	10.029	10.057	VV	1113	13950	0.30%	0.011%	
205	10.072	10.057	10.088	VV	877	12193	0.26%	0.010%	
206	10.099	10.088	10.116	VV	602	7661	0.16%	0.006%	
207	10.140	10.116	10.171	VV	21458	319276	6.86%	0.254%	
208	10.179	10.171	10.232	VV	5598	124637	2.68%	0.099%	
209	10.264	10.232	10.491	VV	170643	2224514	47.78%	1.770%	
210	10.498	10.491	10.525	VV	549	9005	0.19%	0.007%	
211	10.534	10.525	10.547	VV	329	3943	0.08%	0.003%	
212	10.567	10.547	10.587	VV	470	8380	0.18%	0.007%	
213	10.613	10.587	10.644	VV	2377	37084	0.80%	0.030%	
214	10.656	10.644	10.674	VV	706	10011	0.22%	0.008%	
215	10.718	10.674	10.732	VV	718	18455	0.40%	0.015%	
216	10.752	10.732	10.774	VV	1964	30993	0.67%	0.025%	
217	10.789	10.774	10.838	VV	1399	21742	0.47%	0.017%	
218	10.865	10.838	10.906	PV	1432	25390	0.55%	0.020%	
219	10.932	10.906	10.989	VV	2771	64658	1.39%	0.051%	
220	11.007	10.989	11.021	VV	889	13228	0.28%	0.011%	
221	11.036	11.021	11.048	VV	1893	21988	0.47%	0.017%	
222	11.075	11.048	11.152	VV	5783	122331	2.63%	0.097%	
223	11.170	11.152	11.187	VV	1217	14578	0.31%	0.012%	
224	11.206	11.187	11.219	VV	561	8547	0.18%	0.007%	
225	11.271	11.219	11.327	VV	166244	2165041	46.50%	1.722%	
226	11.348	11.327	11.504	VV	31721	611334	13.13%	0.486%	
227	11.523	11.504	11.532	VV	651	8908	0.19%	0.007%	
228	11.539	11.532	11.554	VV	712	7375	0.16%	0.006%	
229	11.579	11.554	11.627	VV	4617	88044	1.89%	0.070%	
230	11.640	11.627	11.658	VV	677	10660	0.23%	0.008%	
231	11.718	11.658	11.781	VV	199047	2314419	49.71%	1.841%	
232	11.809	11.781	11.852	VV	5397	95674	2.05%	0.076%	
233	11.875	11.852	11.896	VV	1678	24055	0.52%	0.019%	
234	11.913	11.896	11.945	VV	2277	40497	0.87%	0.032%	
235	11.965	11.945	12.024	VV	3952	79140	1.70%	0.063%	
236	12.035	12.024	12.054	VV	462	5536	0.12%	0.004%	
237	12.081	12.054	12.096	VV	14967	174397	3.75%	0.139%	
238	12.113	12.096	12.160	VV	18864	281294	6.04%	0.224%	
239	12.195	12.160	12.217	VV	28513	388072	8.33%	0.309%	
240	12.231	12.217	12.245	VV	8916	113005	2.43%	0.090%	
241	12.262	12.245	12.306	VV	11198	163603	3.51%	0.130%	
242	12.325	12.306	12.334	PV	429	4716	0.10%	0.004%	
243	12.381	12.334	12.402	VV	915	28125	0.60%	0.022%	
244	12.417	12.402	12.427	VV	744	9779	0.21%	0.008%	
245	12.451	12.427	12.532	VV	16265	310038	6.66%	0.247%	
246	12.557	12.532	12.617	VV	12299	199038	4.27%	0.158%	

Instrument :

FID_G

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

					Instrument : FID_G			
					ClientSampleId : WASTEMS			
rteres					Manual IntegrationsAPPROVED			
247	12.649	12.617	12.742	VV	87575	1239382	26.62%	0.986%
248	12.757	12.742	12.787	VV	1445	31927	0.00%	0.000%
249	12.809	12.787	12.819	VV	2271	32863	0.00%	0.000%
250	12.829	12.819	12.849	VV	2481	31400	0.00%	0.000%
					Reviewed By :Yogesh Patel 10/27/2025			
					Supervised By :mohammad ahmed 10/28/2025			
251	12.878	12.849	12.918	VV	3654	75143	1.23%	0.082%
252	12.945	12.918	12.969	PV	9998	145243	3.37%	0.000%
253	12.987	12.969	13.006	VV	7456	103637	2.23%	0.082%
254	13.038	13.006	13.076	VV	208823	2503836	53.78%	1.992%
255	13.108	13.076	13.164	VV	392041	4656064	100.00%	3.704%
256	13.178	13.164	13.221	VV	2887	57243	1.23%	0.046%
257	13.293	13.221	13.312	VV	11141	231729	4.98%	0.184%
258	13.325	13.312	13.374	VV	5342	108137	2.32%	0.086%
259	13.407	13.374	13.442	VV	301580	3492396	75.01%	2.778%
260	13.462	13.442	13.479	VV	30725	369896	7.94%	0.294%
261	13.495	13.479	13.556	VV	28885	390649	8.39%	0.311%
262	13.585	13.556	13.604	VV	8683	123225	2.65%	0.098%
263	13.614	13.604	13.637	VV	3608	49840	1.07%	0.040%
264	13.680	13.637	13.747	VV	12976	276785	5.94%	0.220%
265	13.763	13.747	13.787	VV	2779	45687	0.98%	0.036%
266	13.809	13.787	13.842	VV	5832	87432	1.88%	0.070%
267	13.880	13.842	13.946	VV	19966	389717	8.37%	0.310%
268	14.000	13.946	14.046	PV	32537	557625	11.98%	0.444%
269	14.066	14.046	14.086	VV	3170	45952	0.99%	0.037%
270	14.109	14.086	14.130	VV	20303	263636	5.66%	0.210%
271	14.149	14.130	14.171	VV	14347	203709	4.38%	0.162%
272	14.188	14.171	14.212	VV	7575	110285	2.37%	0.088%
273	14.245	14.212	14.271	VV	201863	2485950	53.39%	1.978%
274	14.279	14.271	14.303	VV	11903	149628	3.21%	0.119%
275	14.323	14.303	14.357	VV	9767	163104	3.50%	0.130%
276	14.374	14.357	14.382	VV	2098	29041	0.62%	0.023%
277	14.404	14.382	14.429	VV	4171	78934	1.70%	0.063%
278	14.443	14.429	14.466	VV	2560	47304	1.02%	0.038%
279	14.480	14.466	14.523	VV	2413	62103	1.33%	0.049%
280	14.533	14.523	14.556	VV	1253	13839	0.30%	0.011%
281	14.599	14.556	14.612	PV	1110	19650	0.42%	0.016%
282	14.641	14.612	14.666	VV	3715	74014	1.59%	0.059%
283	14.712	14.666	14.728	VV	5063	132888	2.85%	0.106%
284	14.749	14.728	14.784	VV	14934	234958	5.05%	0.187%
285	14.811	14.784	14.829	VV	3811	70993	1.52%	0.056%
286	14.846	14.829	14.869	VV	3335	55395	1.19%	0.044%
287	14.877	14.869	14.892	VV	1187	12077	0.26%	0.010%
288	14.922	14.892	14.959	VV	21163	350958	7.54%	0.279%
289	14.985	14.959	15.014	VV	34019	508211	10.92%	0.404%
290	15.055	15.014	15.095	VV	19925	439537	9.44%	0.350%
291	15.107	15.095	15.117	VV	2382	27422	0.59%	0.022%
292	15.149	15.117	15.231	VV	86919	1350232	29.00%	1.074%
293	15.257	15.231	15.271	VV	6139	74608	1.60%	0.059%
294	15.300	15.271	15.321	VV	128577	1645914	35.35%	1.309%
295	15.350	15.321	15.425	VV	231844	4303538	92.43%	3.424%
296	15.463	15.425	15.519	VV	30339	570166	12.25%	0.454%
297	15.556	15.519	15.587	VV	5771	139793	3.00%	0.111%
298	15.616	15.587	15.630	VV	10075	153211	3.29%	0.122%
299	15.644	15.630	15.704	VV	9751	218126	4.68%	0.174%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025
Supervised By :mohammad ahmed 10/28/2025

						Instrument : FID_G		
						ClientSampleId : WASTEMS		
rteres								
300	15.745	15.704	15.827	VV	38586	901899	19.37%	0.717%
						Manual IntegrationsAPPROVED		
301	15.897	15.827	15.916	VV	7198	200662	4.22%	0.000%
302	15.936	15.916	15.952	VV	5061	90225	1.01%	0.000%
303	15.978	15.952	16.000	VV	20488	314174	6.06%	0.000%
304	16.017	16.000	16.042	VV	9100	149954	3.38%	0.000%
305	16.064	16.042	16.095	VV	6454	123603	2.23%	0.000%
306	16.139	16.095	16.192	VV	13704	413244	8.88%	0.329%
307	16.215	16.192	16.242	VV	6472	126708	2.72%	0.101%
308	16.262	16.242	16.286	VV	3190	58639	1.26%	0.047%
309	16.306	16.286	16.334	VV	4257	64477	1.38%	0.051%
310	16.384	16.334	16.467	VV	180171	2487143	53.42%	1.979%
311	16.481	16.467	16.496	VV	1054	13533	0.29%	0.011%
312	16.516	16.496	16.529	VV	845	10732	0.23%	0.009%
313	16.585	16.529	16.594	PV	2617	46834	1.01%	0.037%
314	16.614	16.594	16.642	VV	4572	80689	1.73%	0.064%
315	16.661	16.642	16.677	VV	6120	86195	1.85%	0.069%
316	16.686	16.677	16.707	VV	3935	60146	1.29%	0.048%
317	16.724	16.707	16.736	VV	3805	56161	1.21%	0.045%
318	16.771	16.736	16.800	VV	17648	407477	8.75%	0.324%
319	16.812	16.800	16.832	VV	8066	120876	2.60%	0.096%
320	16.872	16.832	16.891	VV	158019	2261797	48.58%	1.799%
321	16.899	16.891	16.979	VV	66017	969625	20.83%	0.771%
322	17.003	16.979	17.027	VV	23050	350707	7.53%	0.279%
323	17.038	17.027	17.083	VV	6697	152677	3.28%	0.121%
324	17.097	17.083	17.109	VV	3298	42898	0.92%	0.034%
325	17.129	17.109	17.142	VV	6151	93675	2.01%	0.075%
326	17.195	17.142	17.227	VV	90909	1489353	31.99%	1.185%
327	17.254	17.227	17.306	VV	107280	1626010	34.92%	1.294%
328	17.341	17.306	17.397	VV	175701	2885617	61.98%	2.296%
329	17.416	17.397	17.445	VV	8968	191196	4.11%	0.152%
330	17.466	17.445	17.479	VV	5816	107896	2.32%	0.086%
331	17.505	17.479	17.545	VV	7142	230393	4.95%	0.183%
332	17.564	17.545	17.584	VV	4724	96010	2.06%	0.076%
333	17.621	17.584	17.692	VV	12565	508711	10.93%	0.405%
334	17.719	17.692	17.742	VV	11102	223814	4.81%	0.178%
335	17.792	17.742	17.822	VV	44240	825739	17.73%	0.657%
336	17.849	17.822	17.864	VV	6386	121837	2.62%	0.097%
337	17.877	17.864	17.897	VV	5421	88938	1.91%	0.071%
338	17.918	17.897	17.946	VV	11066	202039	4.34%	0.161%
339	17.961	17.946	18.002	VV	5676	121612	2.61%	0.097%
340	18.037	18.002	18.094	VV	4572	183376	3.94%	0.146%
341	18.124	18.094	18.151	VV	4061	107514	2.31%	0.086%
342	18.235	18.151	18.282	VV	174531	2692005	57.82%	2.142%
343	18.326	18.282	18.385	VV	12973	518565	11.14%	0.413%
344	18.414	18.385	18.452	VV	12625	405581	8.71%	0.323%
345	18.467	18.452	18.487	VV	12753	213437	4.58%	0.170%
346	18.497	18.487	18.517	VV	8062	129014	2.77%	0.103%
347	18.545	18.517	18.579	VV	26214	616053	13.23%	0.490%
348	18.605	18.579	18.613	VV	29896	474296	10.19%	0.377%
349	18.640	18.613	18.711	VV	84933	2463351	52.91%	1.960%
350	18.724	18.711	18.741	VV	13792	222439	4.78%	0.177%
351	18.770	18.741	18.788	VV	22376	476066	10.22%	0.379%

						Instrument : FID_G ClientSampleId : WASTEMS		
rteres						Manual IntegrationsAPPROVED		
352	18.803	18.788	18.861	VV	20521	673424	14.46%	0.536%
353	18.892	18.861	18.954	VV	75035	1469827	32.19%	0.674%
354	18.978	18.954	18.996	VV	13860	306734	6.19%	0.374%
355	19.030	18.996	19.042	VV	27613	510938	10.09%	0.374%
						Reviewed By :Yogesh Patel 10/27/2025 Supervised By :mohammad ahmed 10/28/2025		
356	19.071	19.042	19.109	VV	186110	2880889	61.42%	1.820%
357	19.131	19.109	19.143	VV	11041	198947	21.19%	0.785%
358	19.172	19.143	19.279	VV	17406	986818	10.09%	0.374%
359	19.330	19.279	19.352	VV	12773	469868	49.12%	1.820%
360	19.438	19.352	19.526	VV	48781	2287181		
361	19.573	19.526	19.584	VV	22251	651574	13.99%	0.518%
362	19.607	19.584	19.644	VV	37123	871799	18.72%	0.694%
363	19.663	19.644	19.687	VV	18562	407723	8.76%	0.324%
364	19.718	19.687	19.754	VV	28349	820830	17.63%	0.653%
365	19.768	19.754	19.803	VV	18616	455719	9.79%	0.363%
366	19.860	19.803	19.897	VV	198528	3505874	75.30%	2.789%
367	19.927	19.897	19.952	VV	34318	791101	16.99%	0.629%
368	19.969	19.952	19.994	VV	21615	488306	10.49%	0.388%
369	20.062	19.994	20.101	VV	39257	1563429	33.58%	1.244%
370	20.130	20.101	20.172	VV	42141	1351998	29.04%	1.076%
371	20.217	20.172	20.311	VV	36511	2195304	47.15%	1.746%
372	20.316	20.311	20.332	VV	21231	265734	5.71%	0.211%
373	20.351	20.332	20.374	VV	23486	544634	11.70%	0.433%
374	20.387	20.374	20.401	VV	20989	333932	7.17%	0.266%
375	20.447	20.401	20.492	VV	44228	1756282	37.72%	1.397%
376	20.515	20.492	20.532	VV	31204	691987	14.86%	0.551%
377	20.546	20.532	20.564	VV	30961	571157	12.27%	0.454%
378	20.605	20.564	20.654	VV	216205	4230720	90.86%	3.366%
379	20.672	20.654	20.691	VV	24461	521560	11.20%	0.415%
380	20.714	20.691	20.807	VV	24388	1568616	33.69%	1.248%
381	20.811	20.807	20.817	VV	20722	120353	2.58%	0.096%
382	20.842	20.817	20.876	VV	21101	727207	15.62%	0.579%
383	20.883	20.876	20.907	VV	21094	384804	8.26%	0.306%
384	20.966	20.907	21.012	VV	25256	1390284	29.86%	1.106%
385	21.019	21.012	21.082	VV	20470	790493	16.98%	0.629%
386	21.093	21.082	21.112	VV	17949	308675	6.63%	0.246%
387	21.128	21.112	21.165	VV	17270	528927	11.36%	0.421%
388	21.175	21.165	21.194	VV	16654	286509	6.15%	0.228%
389	21.202	21.194	21.221	VV	16607	254723	5.47%	0.203%
390	21.229	21.221	21.289	VV	15471	611336	13.13%	0.486%
391	21.382	21.289	21.431	VV	163977	3854284	82.78%	3.066%
392	21.440	21.431	21.476	VV	12650	316602	6.80%	0.252%
393	21.529	21.476	21.580	VV	13808	766211	16.46%	0.610%
394	21.608	21.580	21.655	VV	12103	486103	10.44%	0.387%
395	21.685	21.655	21.711	VV	10018	324750	6.97%	0.258%
396	21.738	21.711	21.782	VV	10274	400265	8.60%	0.318%
397	21.840	21.782	21.886	VV	11195	584901	12.56%	0.465%
398	21.947	21.886	21.957	VV	11612	426963	9.17%	0.340%
399	21.962	21.957	22.076	VV	10886	536521	11.52%	0.427%
400	22.100	22.076	22.177	VV	6086	299331	6.43%	0.238%
401	22.183	22.177	22.223	VV	4623	112386	2.41%	0.089%
402	22.237	22.223	22.244	VV	4237	46409	1.00%	0.037%
403	22.272	22.244	22.309	VV	4602	142871	3.07%	0.114%
404	22.367	22.309	22.476	VV	101299	2709166	58.19%	2.155%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025
Supervised By :mohammad ahmed 10/28/2025

405 22.484 22.476 22.501 VBA rteres 669 33384 0.72% 0.027%

Sum of corrected areas: 1257

FG100225.M Fri Oct 24 23:59:08 2025

Instrument :
FID_G
ClientSampleId :
WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025
Supervised By :mohammad ahmed 10/28/2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	10/20/25
Project:	49 Moore Place Belleville		Date Received:	10/20/25
Client Sample ID:	WASTEMSD		SDG No.:	Q3410
Lab Sample ID:	Q3410-01MSD		Matrix:	SOIL
Analytical Method:	8015D TPH		% Solid:	80.9
Sample Wt/Vol:	30.07 g	Final Vol:	1 mL	Test:
Prep Method:	SW3541	Prep Date	10/24/25	TPH GC

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
PHC	Petroleum Hydrocarbons	43000		1	474	3490	ug/kg	10/24/25 18:27	PB170250
SURROGATES									
16416-32-3	TETRACOSANE-d50	10.8			37 - 130	54%	SPK: 20		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
 Data File : FG016833.D
 Signal(s) : FID1A.ch
 Acq On : 24 Oct 2025 18:27
 Operator : YP\AJ
 Sample : Q3410-01MSD
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 WASTEMSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/27/2025
 Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
 Quant Time: Oct 24 23:32:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
 Quant Title :
 QLast Update : Fri Oct 03 07:26:13 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...	15.150	1327616	10.819 ug/ml
Target Compounds			
1) N-OCTANE	2.090	1864424	14.461 ug/ml
2) N-DECANE	4.626	2161555	16.619 ug/ml
3) N-DODECANE	6.807	2206967	16.783 ug/ml
4) N-TETRADECANE	8.647	2011257	15.236 ug/ml
5) N-HEXADECANE	10.264	2133957	15.988 ug/ml
6) N-OCTADECANE	11.717	2318810	16.562 ug/ml
7) N-EICOSANE	13.037	2484902	17.510 ug/ml
8) N-DOCOSANE	14.245	2461441	17.761 ug/mlm
10) N-TETRACOSANE	15.352	4249036	30.720 ug/ml
11) N-HEXACOSANE	16.385	2435628	17.811 ug/ml
12) N-OCTACOSANE	17.341	2531162	18.700 ug/mlm
13) N-TRIACONTANE	18.235	2411492	17.883 ug/ml
14) N-DOTRIACONTANE	19.071	2534892	20.044 ug/mlm
15) N-TETRATRIACONTANE	19.861	2896765	27.319 ug/ml
16) N-HEXATRIACONTANE	20.605	3005475	36.005 ug/mlm
17) N-OCTATRIACONTANE	21.383	2788842	40.222 ug/ml
18) N-TETRACONTANE	22.365	2528076	42.340 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG102425\
Data File : FG016833.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 18:27
Operator : YP\AJ
Sample : Q3410-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

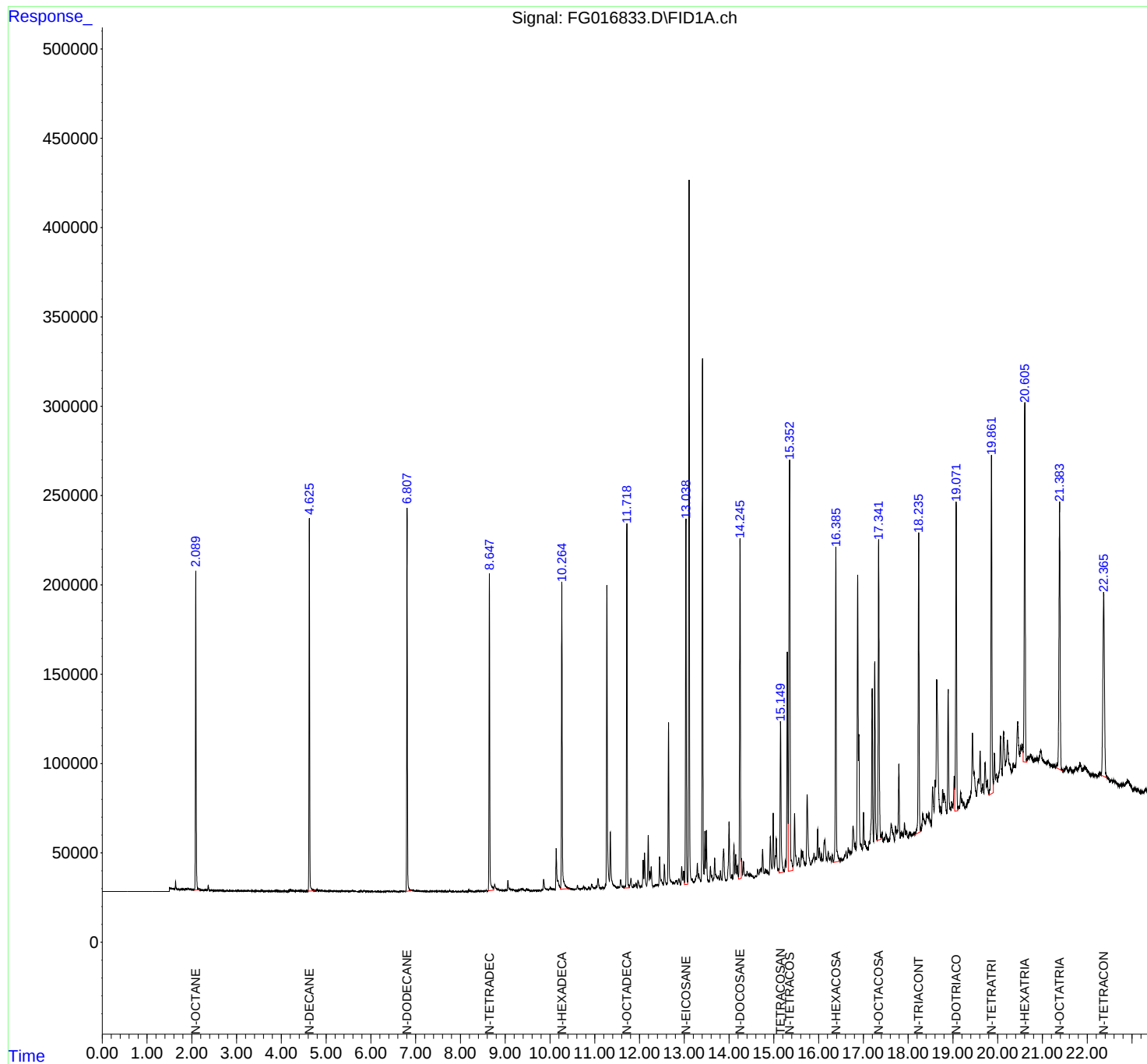
Instrument :
FID_G
ClientSampleId :
WASTEMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/27/2025
Supervised By :mohammad ahmed 10/28/2025

Integration File: Sample.e
Quant Time: Oct 24 23:32:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Quant Title :
QLast Update : Fri Oct 03 07:26:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_G

ClientSampleId :

WASTEMSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG10242
Data File : FG016833.D
Signal(s) : FID1A.ch
Acq On : 24 Oct 2025 18:27
Sample : Q3410-01MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG100225.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.912	1.900	1.931	BV	707	5998	0.13%	0.005%
2	1.934	1.931	1.951	VV	211	963	0.02%	0.001%
3	1.971	1.951	2.008	PV	294	3948	0.09%	0.003%
4	2.027	2.008	2.044	PV	378	3889	0.08%	0.003%
5	2.048	2.044	2.053	PV	50	142	0.00%	0.000%
6	2.090	2.053	2.264	VV	178186	1879057	40.79%	1.461%
7	2.286	2.264	2.292	VV	237	2538	0.06%	0.002%
8	2.307	2.292	2.323	VV	225	2946	0.06%	0.002%
9	2.333	2.323	2.344	VV	112	766	0.02%	0.001%
10	2.367	2.344	2.413	PV	2856	32281	0.70%	0.025%
11	2.426	2.413	2.432	VV	243	1691	0.04%	0.001%
12	2.436	2.432	2.448	VV	226	1998	0.04%	0.002%
13	2.452	2.448	2.492	VV	279	2738	0.06%	0.002%
14	2.498	2.492	2.511	VV	134	860	0.02%	0.001%
15	2.516	2.511	2.531	VV	119	1285	0.03%	0.001%
16	2.534	2.531	2.553	VV	142	1137	0.02%	0.001%
17	2.566	2.553	2.581	VV	186	1368	0.03%	0.001%
18	2.588	2.581	2.614	VV	172	1580	0.03%	0.001%
19	2.621	2.614	2.644	VV	131	1519	0.03%	0.001%
20	2.649	2.644	2.660	VV	156	1036	0.02%	0.001%
21	2.664	2.660	2.685	VV	168	1653	0.04%	0.001%
22	2.702	2.685	2.729	VV	173	2656	0.06%	0.002%
23	2.738	2.729	2.761	PV	113	1200	0.03%	0.001%
24	2.795	2.761	2.825	VV	292	5876	0.13%	0.005%
25	2.831	2.825	2.835	VV	123	530	0.01%	0.000%
26	2.846	2.835	2.869	VV	218	2806	0.06%	0.002%
27	2.875	2.869	2.887	VV	238	1431	0.03%	0.001%
28	2.892	2.887	2.913	VV	176	1984	0.04%	0.002%
29	2.935	2.913	2.943	VV	229	2651	0.06%	0.002%
30	2.945	2.943	2.960	VV	123	954	0.02%	0.001%
31	2.973	2.960	2.978	VV	162	1350	0.03%	0.001%
32	2.981	2.978	2.999	VV	242	1710	0.04%	0.001%
33	3.023	2.999	3.028	VV	215	3239	0.07%	0.003%
34	3.042	3.028	3.059	VV	393	4583	0.10%	0.004%
35	3.102	3.059	3.122	VV	293	7152	0.16%	0.006%
36	3.127	3.122	3.138	VV	215	1307	0.03%	0.001%

					retention				
37	3.146	3.138	3.150	VV	167	965	0.02%	0.001%	
38	3.153	3.150	3.163	VV	133	724			
39	3.169	3.163	3.176	VV	172	892			
40	3.180	3.176	3.195	VV	92	892			
41	3.198	3.195	3.204	VV	79	472			
42	3.220	3.204	3.237	VV	161	2351			
43	3.241	3.237	3.252	VV	147	941	0.02%	0.001%	
44	3.272	3.252	3.284	VV	283	3847	0.08%	0.003%	
45	3.286	3.284	3.294	VV	219	1116	0.02%	0.001%	
46	3.299	3.294	3.339	VV	179	2786	0.06%	0.002%	
47	3.343	3.339	3.348	VV	133	419	0.01%	0.000%	
48	3.359	3.348	3.387	VV	159	2505	0.05%	0.002%	
49	3.389	3.387	3.397	VV	259	569	0.01%	0.000%	
50	3.402	3.397	3.418	VV	112	1145	0.02%	0.001%	
51	3.429	3.418	3.453	VV	161	2137	0.05%	0.002%	
52	3.457	3.453	3.473	VV	116	1190	0.03%	0.001%	
53	3.479	3.473	3.500	VV	167	1755	0.04%	0.001%	
54	3.504	3.500	3.517	VV	160	784	0.02%	0.001%	
55	3.520	3.517	3.525	PV	56	271	0.01%	0.000%	
56	3.534	3.525	3.539	VV	105	630	0.01%	0.000%	
57	3.572	3.539	3.591	VV	319	4772	0.10%	0.004%	
58	3.595	3.591	3.604	VV	168	997	0.02%	0.001%	
59	3.608	3.604	3.614	VV	122	564	0.01%	0.000%	
60	3.619	3.614	3.631	VV	174	807	0.02%	0.001%	
61	3.648	3.631	3.663	VV	222	2660	0.06%	0.002%	
62	3.668	3.663	3.674	VV	145	863	0.02%	0.001%	
63	3.686	3.674	3.712	VV	297	3935	0.09%	0.003%	
64	3.723	3.712	3.741	VV	269	3018	0.07%	0.002%	
65	3.743	3.741	3.757	VV	160	1058	0.02%	0.001%	
66	3.761	3.757	3.768	VV	110	478	0.01%	0.000%	
67	3.776	3.768	3.787	VV	96	770	0.02%	0.001%	
68	3.810	3.787	3.834	VV	262	5126	0.11%	0.004%	
69	3.838	3.834	3.858	VV	197	2108	0.05%	0.002%	
70	3.875	3.858	3.894	VV	434	5783	0.13%	0.004%	
71	3.898	3.894	3.928	VV	196	2455	0.05%	0.002%	
72	3.936	3.928	3.965	VV	137	2666	0.06%	0.002%	
73	3.969	3.965	3.973	VV	124	466	0.01%	0.000%	
74	3.990	3.973	4.028	VV	188	3785	0.08%	0.003%	
75	4.032	4.028	4.036	PV	100	298	0.01%	0.000%	
76	4.059	4.036	4.070	VV	161	2314	0.05%	0.002%	
77	4.074	4.070	4.119	VV	131	2588	0.06%	0.002%	
78	4.196	4.119	4.202	PV	629	12235	0.27%	0.010%	
79	4.208	4.202	4.211	VV	607	3175	0.07%	0.002%	
80	4.214	4.211	4.246	VV	629	10358	0.22%	0.008%	
81	4.252	4.246	4.304	VV	464	12497	0.27%	0.010%	
82	4.311	4.304	4.317	VV	362	2192	0.05%	0.002%	
83	4.348	4.317	4.361	VV	357	7306	0.16%	0.006%	
84	4.372	4.361	4.382	VV	317	3547	0.08%	0.003%	
85	4.395	4.382	4.415	VV	411	6643	0.14%	0.005%	
86	4.439	4.415	4.482	VV	627	13575	0.29%	0.011%	
87	4.485	4.482	4.492	VV	179	1027	0.02%	0.001%	
88	4.497	4.492	4.516	VV	268	2597	0.06%	0.002%	
89	4.521	4.516	4.525	VV	216	1014	0.02%	0.001%	

Instrument :

FID_G

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

					retention			
90	4.532	4.525	4.545	VV	252	2392	0.05%	0.002%
91	4.564	4.545	4.569	VV	301	3115		
92	4.573	4.569	4.584	VV	271	2254		
93	4.626	4.584	4.732	VV	208571	2182149	47	
94	4.743	4.732	4.773	VV	623	13117		
95	4.796	4.773	4.835	VV	880	23671		
96	4.858	4.835	4.895	VV	566	18416	0.40%	0.014%
97	4.912	4.895	4.969	VV	504	17527	0.38%	0.014%
98	4.978	4.969	5.012	VV	332	7573	0.16%	0.006%
99	5.017	5.012	5.023	VV	275	1780	0.04%	0.001%
100	5.069	5.030	5.090	VV	381	11238	0.24%	0.009%
101	5.101	5.090	5.116	VV	380	5104	0.11%	0.004%
102	5.120	5.116	5.134	VV	363	3297	0.07%	0.003%
103	5.142	5.134	5.164	VV	388	5390	0.12%	0.004%
104	5.183	5.164	5.195	VV	345	5635	0.12%	0.004%
105	5.200	5.195	5.216	VV	304	3532	0.08%	0.003%
106	5.219	5.216	5.233	VV	293	2225	0.05%	0.002%
107	5.238	5.233	5.254	VV	228	2394	0.05%	0.002%
108	5.260	5.254	5.265	VV	218	1287	0.03%	0.001%
109	5.287	5.265	5.314	VV	454	7713	0.17%	0.006%
110	5.341	5.314	5.376	VV	382	9114	0.20%	0.007%
111	5.381	5.376	5.385	VV	232	1220	0.03%	0.001%
112	5.391	5.385	5.397	VV	242	1507	0.03%	0.001%
113	5.404	5.397	5.409	VV	211	1454	0.03%	0.001%
114	5.414	5.409	5.424	VV	264	1855	0.04%	0.001%
115	5.445	5.424	5.507	VV	272	10091	0.22%	0.008%
116	5.514	5.507	5.560	VV	206	4249	0.09%	0.003%
117	5.582	5.560	5.640	VV	690	17387	0.38%	0.014%
118	5.644	5.640	5.699	VV	221	4431	0.10%	0.003%
119	5.702	5.699	5.716	VV	99	793	0.02%	0.001%
120	5.725	5.716	5.742	PV	126	1082	0.02%	0.001%
121	5.772	5.742	5.820	VV	595	10965	0.24%	0.009%
122	5.840	5.820	5.873	VV	667	11393	0.25%	0.009%
123	5.890	5.873	5.948	VV	318	7822	0.17%	0.006%
124	5.967	5.948	6.003	VV	176	3277	0.07%	0.003%
125	6.026	6.003	6.052	VV	308	5492	0.12%	0.004%
126	6.056	6.052	6.068	VV	153	1169	0.03%	0.001%
127	6.093	6.068	6.121	VV	231	4835	0.10%	0.004%
128	6.143	6.121	6.207	VV	189	4934	0.11%	0.004%
129	6.249	6.207	6.277	PV	174	3034	0.07%	0.002%
130	6.283	6.277	6.299	PV	96	798	0.02%	0.001%
131	6.312	6.299	6.321	VV	93	821	0.02%	0.001%
132	6.352	6.321	6.399	VV	350	9371	0.20%	0.007%
133	6.407	6.399	6.417	VV	225	1951	0.04%	0.002%
134	6.429	6.417	6.439	VV	255	2214	0.05%	0.002%
135	6.455	6.439	6.481	VV	203	3908	0.08%	0.003%
136	6.519	6.481	6.554	VV	586	11794	0.26%	0.009%
137	6.565	6.554	6.589	VV	177	2766	0.06%	0.002%
138	6.598	6.589	6.627	VV	161	2480	0.05%	0.002%
139	6.653	6.627	6.672	VV	336	5104	0.11%	0.004%
140	6.696	6.672	6.711	VV	285	5109	0.11%	0.004%
141	6.738	6.711	6.775	VV	200	6183	0.13%	0.005%

Instrument :

FID_G

ClientSampleId :

WASTEMSD

0.05% 0.002%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/27/2025

Supervised By :mohammad ahmed 10/28/2025

					rteres				
142	6.807	6.775	6.947	VV	214165	2254742	48.95%	1.753%	
143	6.960	6.947	7.007	VV	686	20155			
144	7.025	7.007	7.055	VV	748	16087			
145	7.073	7.055	7.122	VV	698	18494			
146	7.130	7.122	7.161	VV	324	5958			
147	7.169	7.161	7.185	VV	289	3355			
148	7.207	7.185	7.245	VV	243	7592	0.16%	0.006%	
149	7.255	7.245	7.304	VV	252	5520	0.12%	0.004%	
150	7.325	7.304	7.340	VV	259	4752	0.10%	0.004%	
151	7.347	7.340	7.416	VV	271	9883	0.21%	0.008%	
152	7.487	7.416	7.517	VV	377	13575	0.29%	0.011%	
153	7.536	7.517	7.569	VV	287	5468	0.12%	0.004%	
154	7.594	7.569	7.622	VV	371	6684	0.15%	0.005%	
155	7.636	7.622	7.648	VV	283	3355	0.07%	0.003%	
156	7.656	7.648	7.698	VV	308	5794	0.13%	0.005%	
157	7.708	7.698	7.731	VV	219	2690	0.06%	0.002%	
158	7.761	7.731	7.802	VV	650	10510	0.23%	0.008%	
159	7.832	7.802	7.879	VV	195	6933	0.15%	0.005%	
160	7.895	7.879	7.915	VV	184	2471	0.05%	0.002%	
161	7.923	7.915	7.949	VV	121	2223	0.05%	0.002%	
162	7.964	7.949	8.000	VV	231	3703	0.08%	0.003%	
163	8.010	8.000	8.029	PV	87	870	0.02%	0.001%	
164	8.052	8.029	8.092	VV	482	6771	0.15%	0.005%	
165	8.107	8.092	8.118	VV	127	1377	0.03%	0.001%	
166	8.125	8.118	8.155	VV	137	1566	0.03%	0.001%	
167	8.186	8.155	8.207	PV	751	11435	0.25%	0.009%	
168	8.223	8.207	8.318	VV	569	13476	0.29%	0.010%	
169	8.338	8.318	8.358	VV	420	5304	0.12%	0.004%	
170	8.407	8.358	8.448	VV	575	14112	0.31%	0.011%	
171	8.470	8.448	8.516	VV	284	7021	0.15%	0.005%	
172	8.545	8.516	8.560	VV	320	5974	0.13%	0.005%	
173	8.576	8.560	8.594	VV	637	9168	0.20%	0.007%	
174	8.647	8.594	8.743	VV	177422	2057684	44.67%	1.600%	
175	8.766	8.743	8.954	VV	3725	167786	3.64%	0.130%	
176	8.972	8.954	8.996	VV	578	12749	0.28%	0.010%	
177	9.016	8.996	9.031	VV	744	12706	0.28%	0.010%	
178	9.061	9.031	9.120	VV	6023	110598	2.40%	0.086%	
179	9.126	9.120	9.172	VV	942	26460	0.57%	0.021%	
180	9.190	9.172	9.230	VV	828	22297	0.48%	0.017%	
181	9.241	9.230	9.270	VV	458	9494	0.21%	0.007%	
182	9.306	9.270	9.325	VV	815	16653	0.36%	0.013%	
183	9.348	9.325	9.365	VV	1362	23486	0.51%	0.018%	
184	9.378	9.365	9.456	VV	1211	42223	0.92%	0.033%	
185	9.479	9.456	9.509	VV	1383	25498	0.55%	0.020%	
186	9.517	9.509	9.599	VV	751	17662	0.38%	0.014%	
187	9.605	9.599	9.617	VV	129	1319	0.03%	0.001%	
188	9.635	9.617	9.650	VV	470	5876	0.13%	0.005%	
189	9.674	9.650	9.703	VV	482	9309	0.20%	0.007%	
190	9.723	9.703	9.744	VV	283	4541	0.10%	0.004%	
191	9.772	9.744	9.795	VV	487	8148	0.18%	0.006%	
192	9.824	9.795	9.837	PV	824	12481	0.27%	0.010%	
193	9.859	9.837	9.918	VV	6444	123814	2.69%	0.096%	
194	9.934	9.918	9.964	VV	1049	21427	0.47%	0.017%	

Instrument :

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195	10.008	9.964	10.028	VV	1942	41820	0.91%	0.033%
196	10.041	10.028	10.056	VV	1146	14683		
197	10.071	10.056	10.088	VV	962	14096		
198	10.098	10.088	10.113	VV	637	7779		
199	10.140	10.113	10.172	VV	23558	342686		
200	10.180	10.172	10.233	VV	5636	119590		
201	10.264	10.233	10.364	VV	172286	2173268	47.18%	1.690%
202	10.372	10.364	10.422	VV	1965	49071	1.07%	0.038%
203	10.441	10.422	10.487	VV	942	29298	0.64%	0.023%
204	10.496	10.487	10.550	VV	606	14727	0.32%	0.011%
205	10.567	10.550	10.587	VV	509	8737	0.19%	0.007%
206	10.613	10.587	10.639	VV	2516	37101	0.81%	0.029%
207	10.658	10.639	10.676	VV	671	11396	0.25%	0.009%
208	10.715	10.676	10.729	VV	745	17915	0.39%	0.014%
209	10.750	10.729	10.772	VV	1896	32095	0.70%	0.025%
210	10.789	10.772	10.840	VV	1351	21221	0.46%	0.017%
211	10.865	10.840	10.904	PV	1511	26644	0.58%	0.021%
212	10.931	10.904	10.988	VV	2878	66647	1.45%	0.052%
213	11.007	10.988	11.018	VV	944	12903	0.28%	0.010%
214	11.035	11.018	11.048	VV	1953	23819	0.52%	0.019%
215	11.074	11.048	11.151	VV	5858	122887	2.67%	0.096%
216	11.170	11.151	11.187	VV	1273	14903	0.32%	0.012%
217	11.202	11.187	11.215	VV	546	7299	0.16%	0.006%
218	11.271	11.215	11.327	VV	169321	2176109	47.24%	1.692%
219	11.347	11.327	11.503	VV	31705	599543	13.01%	0.466%
220	11.524	11.503	11.552	VV	628	15040	0.33%	0.012%
221	11.578	11.552	11.632	VV	4662	89651	1.95%	0.070%
222	11.640	11.632	11.657	VV	663	8203	0.18%	0.006%
223	11.717	11.657	11.777	VV	201549	2323999	50.45%	1.807%
224	11.809	11.777	11.850	VV	5160	94325	2.05%	0.073%
225	11.875	11.850	11.894	VV	1631	21660	0.47%	0.017%
226	11.913	11.894	11.945	VV	2118	38545	0.84%	0.030%
227	11.966	11.945	12.019	VV	3917	78100	1.70%	0.061%
228	12.035	12.019	12.050	VV	491	5805	0.13%	0.005%
229	12.080	12.050	12.095	PV	15243	174875	3.80%	0.136%
230	12.112	12.095	12.160	VV	19255	278489	6.05%	0.217%
231	12.195	12.160	12.217	VV	29092	387100	8.40%	0.301%
232	12.231	12.217	12.245	VV	8656	112019	2.43%	0.087%
233	12.261	12.245	12.305	VV	11291	162062	3.52%	0.126%
234	12.383	12.305	12.404	PV	896	34680	0.75%	0.027%
235	12.414	12.404	12.427	VV	832	9412	0.20%	0.007%
236	12.450	12.427	12.534	VV	16530	308361	6.69%	0.240%
237	12.556	12.534	12.617	VV	11939	194591	4.22%	0.151%
238	12.649	12.617	12.695	VV	90335	1146481	24.89%	0.892%
239	12.701	12.695	12.742	VV	2821	55231	1.20%	0.043%
240	12.759	12.742	12.789	VV	1477	33186	0.72%	0.026%
241	12.809	12.789	12.817	VV	2308	29251	0.63%	0.023%
242	12.828	12.817	12.850	VV	2519	33210	0.72%	0.026%
243	12.877	12.850	12.917	VV	3515	71937	1.56%	0.056%
244	12.943	12.917	12.969	PV	10157	143239	3.11%	0.111%
245	12.987	12.969	13.006	VV	7652	99627	2.16%	0.077%
246	13.037	13.006	13.075	VV	203869	2485047	53.94%	1.932%

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Manual IntegrationsAPPROVED

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				rters					
247	13.108	13.075	13.163	VV	390828	4606661	100.00%	3.582%	
248	13.177	13.163	13.220	VV	2911	56584			
249	13.293	13.220	13.310	VV	11098	227854			
250	13.324	13.310	13.374	VV	5322	108679			
251	13.407	13.374	13.440	VV	293436	3450390	74.43%	0.302%	
252	13.462	13.440	13.479	VV	28806	373359	8.43%	0.302%	
253	13.495	13.479	13.562	VV	29368	388448	2.67%	0.096%	
254	13.585	13.562	13.605	VV	8982	122864	1.00%	0.036%	
255	13.612	13.605	13.637	VV	3674	46155			
256	13.679	13.637	13.747	VV	13219	273842	5.94%	0.213%	
257	13.763	13.747	13.787	VV	3022	45660	0.99%	0.036%	
258	13.808	13.787	13.841	VV	5774	84857	1.84%	0.066%	
259	13.879	13.841	13.935	VV	17959	368120	7.99%	0.286%	
260	14.000	13.935	14.045	VV	32568	553843	12.02%	0.431%	
261	14.065	14.045	14.084	VV	3173	44556	0.97%	0.035%	
262	14.109	14.084	14.131	VV	19493	265352	5.76%	0.206%	
263	14.148	14.131	14.172	VV	14201	203416	4.42%	0.158%	
264	14.188	14.172	14.212	VV	7559	104919	2.28%	0.082%	
265	14.244	14.212	14.304	VV	189325	2604883	56.55%	2.026%	
266	14.322	14.304	14.360	VV	9836	164960	3.58%	0.128%	
267	14.373	14.360	14.384	VV	2076	27053	0.59%	0.021%	
268	14.402	14.384	14.425	VV	4209	73123	1.59%	0.057%	
269	14.443	14.425	14.462	VV	2496	47443	1.03%	0.037%	
270	14.481	14.462	14.524	VV	2363	64216	1.39%	0.050%	
271	14.534	14.524	14.559	VV	1338	14694	0.32%	0.011%	
272	14.598	14.559	14.615	PV	1084	21577	0.47%	0.017%	
273	14.640	14.615	14.665	VV	4015	74258	1.61%	0.058%	
274	14.714	14.665	14.728	VV	4871	129373	2.81%	0.101%	
275	14.749	14.728	14.786	VV	15366	236694	5.14%	0.184%	
276	14.810	14.786	14.829	VV	3748	67046	1.46%	0.052%	
277	14.846	14.829	14.869	VV	3217	51779	1.12%	0.040%	
278	14.878	14.869	14.893	VV	1372	13730	0.30%	0.011%	
279	14.922	14.893	14.960	VV	21408	355038	7.71%	0.276%	
280	14.985	14.960	15.014	VV	34407	498218	10.82%	0.387%	
281	15.054	15.014	15.095	VV	19815	434291	9.43%	0.338%	
282	15.107	15.095	15.119	VV	2228	28505	0.62%	0.022%	
283	15.150	15.119	15.230	VV	84349	1330526	28.88%	1.035%	
284	15.256	15.230	15.271	VV	6157	77921	1.69%	0.061%	
285	15.300	15.271	15.321	VV	122577	1653239	35.89%	1.286%	
286	15.352	15.321	15.425	VV	230498	4251367	92.29%	3.306%	
287	15.463	15.425	15.520	VV	31546	580782	12.61%	0.452%	
288	15.557	15.520	15.585	VV	6455	149483	3.24%	0.116%	
289	15.616	15.585	15.630	VV	10321	161446	3.50%	0.126%	
290	15.645	15.630	15.710	VV	9757	233080	5.06%	0.181%	
291	15.745	15.710	15.825	VV	40697	893593	19.40%	0.695%	
292	15.897	15.825	15.917	VV	7175	205151	4.45%	0.160%	
293	15.934	15.917	15.949	VV	4908	77720	1.69%	0.060%	
294	15.979	15.949	16.001	VV	20246	327097	7.10%	0.254%	
295	16.018	16.001	16.047	VV	9609	158046	3.43%	0.123%	
296	16.064	16.047	16.096	VV	6181	113362	2.46%	0.088%	
297	16.139	16.096	16.194	VV	13479	408675	8.87%	0.318%	
298	16.215	16.194	16.247	VV	6673	127471	2.77%	0.099%	
299	16.265	16.247	16.286	VV	3037	52777	1.15%	0.041%	

300	16.305	16.286	16.334	VV	4553	61662	1.34%	0.048%
301	16.385	16.334	16.469	VV	176664	2435972	52.00%	0.000%
302	16.484	16.469	16.504	VV	1185	16540	0.00%	0.000%
303	16.514	16.504	16.534	VV	668	7561	0.00%	0.000%
304	16.581	16.534	16.595	PV	2542	48965	0.00%	0.000%
305	16.614	16.595	16.639	VV	4606	72370	0.00%	0.000%
306	16.662	16.639	16.677	VV	6256	85639	1.86%	0.067%
307	16.688	16.677	16.704	VV	3946	55476	1.20%	0.043%
308	16.723	16.704	16.738	VV	3816	65054	1.41%	0.051%
309	16.771	16.738	16.800	VV	17431	397419	8.63%	0.309%
310	16.812	16.800	16.832	VV	7692	116887	2.54%	0.091%
311	16.874	16.832	16.892	VV	157305	2241032	48.65%	1.743%
312	16.900	16.892	16.979	VV	67374	975380	21.17%	0.758%
313	17.004	16.979	17.030	VV	23436	355713	7.72%	0.277%
314	17.040	17.030	17.092	VV	6864	155412	3.37%	0.121%
315	17.099	17.092	17.109	VV	3075	27769	0.60%	0.022%
316	17.129	17.109	17.142	VV	6173	90395	1.96%	0.070%
317	17.197	17.142	17.227	VV	91292	1486689	32.27%	1.156%
318	17.254	17.227	17.309	VV	105349	1641641	35.64%	1.277%
319	17.341	17.309	17.399	VV	173122	2826615	61.36%	2.198%
320	17.416	17.399	17.446	VV	9228	183028	3.97%	0.142%
321	17.465	17.446	17.482	VV	5718	102629	2.23%	0.080%
322	17.502	17.482	17.545	VV	7507	206111	4.47%	0.160%
323	17.563	17.545	17.581	VV	4176	77507	1.68%	0.060%
324	17.623	17.581	17.694	VV	11951	491158	10.66%	0.382%
325	17.718	17.694	17.739	VV	10143	193880	4.21%	0.151%
326	17.792	17.739	17.822	VV	44349	800488	17.38%	0.622%
327	17.846	17.822	17.865	VV	6192	122758	2.66%	0.095%
328	17.880	17.865	17.895	VV	5414	78848	1.71%	0.061%
329	17.919	17.895	17.947	VV	10489	205082	4.45%	0.159%
330	17.961	17.947	17.995	VV	5266	109339	2.37%	0.085%
331	18.039	17.995	18.084	VV	4161	161779	3.51%	0.126%
332	18.127	18.084	18.150	VV	3701	117219	2.54%	0.091%
333	18.235	18.150	18.289	VV	171269	2635467	57.21%	2.049%
334	18.326	18.289	18.388	VV	12830	488472	10.60%	0.380%
335	18.414	18.388	18.452	VV	11830	373563	8.11%	0.290%
336	18.466	18.452	18.487	VV	12110	206517	4.48%	0.161%
337	18.498	18.487	18.515	VV	7968	113549	2.46%	0.088%
338	18.546	18.515	18.578	VV	25494	598517	12.99%	0.465%
339	18.602	18.578	18.614	VV	28323	480345	10.43%	0.374%
340	18.639	18.614	18.709	VV	84481	2432164	52.80%	1.891%
341	18.723	18.709	18.742	VV	13542	234775	5.10%	0.183%
342	18.771	18.742	18.787	VV	22671	455050	9.88%	0.354%
343	18.802	18.787	18.863	VV	20505	700498	15.21%	0.545%
344	18.893	18.863	18.955	VV	77983	1492227	32.39%	1.160%
345	18.975	18.955	18.998	VV	14627	318555	6.92%	0.248%
346	19.029	18.998	19.043	VV	28158	528476	11.47%	0.411%
347	19.072	19.043	19.114	VV	181680	2893236	62.81%	2.250%
348	19.133	19.114	19.146	VV	10949	193250	4.20%	0.150%
349	19.172	19.146	19.194	VV	18472	408026	8.86%	0.317%
350	19.204	19.194	19.227	VV	13664	249961	5.43%	0.194%
351	19.242	19.227	19.270	VV	12506	277362	6.02%	0.216%

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							Instrument : FID_G	
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rteres							Manual IntegrationsAPPROVED	
352	19.295	19.270	19.304	VV	10097	190738	4.14%	0.148%
353	19.332	19.304	19.347	VV	12426	291539		
354	19.437	19.347	19.527	VV	49109	2399661	52.61%	0.391%
355	19.573	19.527	19.585	VV	22363	680384	14.14%	0.148%
356	19.608	19.585	19.640	VV	38083	838185	18.54%	0.664%
357	19.667	19.640	19.689	VV	19427	483761	10.91%	0.391%
358	19.718	19.689	19.753	VV	30781	854166	18.54%	0.664%
359	19.772	19.753	19.804	VV	20534	502508	10.91%	0.391%
360	19.861	19.804	19.904	VV	201054	3632971	78.86%	2.825%
361	19.928	19.904	19.952	VV	33847	738294	16.03%	0.574%
362	19.969	19.952	20.000	VV	22795	602208	13.07%	0.468%
363	20.062	20.000	20.102	VV	42165	1640623	35.61%	1.276%
364	20.131	20.102	20.172	VV	44284	1424795	30.93%	1.108%
365	20.218	20.172	20.317	VV	39692	2431520	52.78%	1.891%
366	20.350	20.317	20.365	VV	25805	677062	14.70%	0.526%
367	20.374	20.365	20.405	VV	24400	570027	12.37%	0.443%
368	20.446	20.405	20.495	VV	47997	1932577	41.95%	1.503%
369	20.514	20.495	20.527	VV	34474	607233	13.18%	0.472%
370	20.547	20.527	20.569	VV	34764	813841	17.67%	0.633%
371	20.605	20.569	20.649	VV	225349	4183409	90.81%	3.253%
372	20.679	20.649	20.690	VV	27240	649220	14.09%	0.505%
373	20.738	20.690	20.770	VV	27455	1261702	27.39%	0.981%
374	20.778	20.770	20.800	VV	25553	434614	9.43%	0.338%
375	20.821	20.800	20.830	VV	24604	439149	9.53%	0.341%
376	20.838	20.830	20.847	VV	24053	242026	5.25%	0.188%
377	20.857	20.847	20.870	VV	24620	339024	7.36%	0.264%
378	20.880	20.870	20.909	VV	24017	543689	11.80%	0.423%
379	20.961	20.909	21.069	VV	28397	2275452	49.39%	1.769%
380	21.081	21.069	21.091	VV	20849	271628	5.90%	0.211%
381	21.123	21.091	21.222	VV	21109	1513115	32.85%	1.177%
382	21.233	21.222	21.244	VV	17556	219975	4.78%	0.171%
383	21.254	21.244	21.295	VV	17429	525005	11.40%	0.408%
384	21.383	21.295	21.464	VV	162771	4256310	92.39%	3.310%
385	21.521	21.464	21.588	VV	14864	987202	21.43%	0.768%
386	21.619	21.588	21.662	VV	14050	551860	11.98%	0.429%
387	21.749	21.662	21.783	VV	12516	841524	18.27%	0.654%
388	21.837	21.783	21.894	VV	14598	808555	17.55%	0.629%
389	21.903	21.894	21.912	VV	10242	112694	2.45%	0.088%
390	21.936	21.912	21.963	VV	11894	336375	7.30%	0.262%
391	21.972	21.963	22.075	VV	11081	548736	11.91%	0.427%
392	22.099	22.075	22.127	VV	6221	182493	3.96%	0.142%
393	22.132	22.127	22.152	VV	5876	81557	1.77%	0.063%
394	22.182	22.152	22.234	VV	5855	242852	5.27%	0.189%
395	22.258	22.234	22.310	VV	5564	221422	4.81%	0.172%
396	22.367	22.310	22.500	VBA	104750	2831758	61.47%	2.202%
Sum of corrected areas:							128598532	

FG100225.M Fri Oct 24 23:59:42 2025

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
5 TRPH STD		FG016735.D	FG100225	N-TETRATRIACONTANE	mohammad	10/4/2025 6:32:20 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
50 PPM TRPH STD		FG016827.D	FG102425	N-HEXATRIACONTANE	 	 	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG016827.D	FG102425	N-TETRACONTANE	 	 	Peak Integrated by Software incorrectly
PB170250BS		FG016830.D	FG102425	N-HEXATRIACONTANE	 	 	Peak Integrated by Software incorrectly
PB170250BS		FG016830.D	FG102425	N-OCTATRIACONTANE	 	 	Peak Integrated by Software incorrectly
PB170250BS		FG016830.D	FG102425	N-TETRATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MS		FG016832.D	FG102425	N-DOTRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MS		FG016832.D	FG102425	N-HEXATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MS		FG016832.D	FG102425	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MS		FG016832.D	FG102425	N-OCTATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MS		FG016832.D	FG102425	N-TETRATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MSD		FG016833.D	FG102425	N-DOCOSANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MSD		FG016833.D	FG102425	N-DOTRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MSD		FG016833.D	FG102425	N-HEXATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MSD		FG016833.D	FG102425	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly
Q3410-01MSD		FG016833.D	FG102425	N-TETRACONTANE	 	 	Peak Integrated by Software incorrectly

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG100225

Review By	yogesh	Review On	10/2/2025 11:33:55 AM
Supervise By	mohammad	Supervise On	10/4/2025 6:32:20 AM
SubDirectory	FG100225	HP Acquire Method	HP Processing Method FG100225
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24962,PP24964,PP24965,PP24966,PP24967		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24963,PP24968		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016729.D	02 Oct 2025 09:28	YP\AJ	Ok
2	I.BLK	FG016730.D	02 Oct 2025 10:27	YP\AJ	Ok
3	100 TRPH STD	FG016731.D	02 Oct 2025 10:56	YP\AJ	Ok
4	50 TRPH STD	FG016732.D	02 Oct 2025 11:26	YP\AJ	Ok
5	20 TRPH STD	FG016733.D	02 Oct 2025 11:55	YP\AJ	Ok
6	10 TRPH STD	FG016734.D	02 Oct 2025 12:24	YP\AJ	Ok
7	5 TRPH STD	FG016735.D	02 Oct 2025 12:54	YP\AJ	Ok,M
8	FG100225ICV	FG016736.D	02 Oct 2025 13:23	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG102425

Review By		Review On	
Supervise By		Supervise On	
SubDirectory	FG102425	HP Acquire Method	HP Processing Method FG100225
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24962,PP24964,PP24965,PP24966,PP24967		
CCC Internal Standard/PEM	PP24964		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24963,PP24968		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016825.D	24 Oct 2025 12:13	YP\AJ	Ok
2	I.BLK	FG016826.D	24 Oct 2025 12:56	YP\AJ	Ok
3	50 PPM TRPH STD	FG016827.D	24 Oct 2025 13:26	YP\AJ	Ok,NS
4	RT MARKER	FG016828.D	24 Oct 2025 15:59	YP\AJ	Ok
5	PB170250BL	FG016829.D	24 Oct 2025 16:29	YP\AJ	Ok
6	PB170250BS	FG016830.D	24 Oct 2025 16:58	YP\AJ	Ok,NS
7	Q3410-01	FG016831.D	24 Oct 2025 17:28	YP\AJ	Ok
8	Q3410-01MS	FG016832.D	24 Oct 2025 17:57	YP\AJ	Ok,NS
9	Q3410-01MSD	FG016833.D	24 Oct 2025 18:27	YP\AJ	Ok,NS
10	I.BLK	FG016834.D	24 Oct 2025 18:56	YP\AJ	Ok
11	50 PPM TRPH STD	FG016835.D	24 Oct 2025 19:26	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG100225

Review By	yogesh	Review On	10/2/2025 11:33:55 AM
Supervise By	mohammad	Supervise On	10/4/2025 6:32:20 AM
SubDirectory	FG100225	HP Acquire Method	HP Processing Method FG100225
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24962,PP24964,PP24965,PP24966,PP24967		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24963,PP24968		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016729.D	02 Oct 2025 09:28		YP\AJ	Ok
2	I.BLK		FG016730.D	02 Oct 2025 10:27		YP\AJ	Ok
3	100 TRPH STD		FG016731.D	02 Oct 2025 10:56		YP\AJ	Ok
4	50 TRPH STD		FG016732.D	02 Oct 2025 11:26		YP\AJ	Ok
5	20 TRPH STD		FG016733.D	02 Oct 2025 11:55		YP\AJ	Ok
6	10 TRPH STD		FG016734.D	02 Oct 2025 12:24		YP\AJ	Ok
7	5 TRPH STD		FG016735.D	02 Oct 2025 12:54		YP\AJ	Ok,M
8	FG100225ICV		FG016736.D	02 Oct 2025 13:23		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG102425

Review By	Review On
Supervise By	Supervise On
SubDirectory	FG102425
HP Acquire Method	HP Processing Method
	FG100225
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24962,PP24964,PP24965,PP24966,PP24967
CCC Internal Standard/PEM	PP24964
ICV/I.BLK Surrogate Standard	PP24963,PP24968
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016825.D	24 Oct 2025 12:13		YP\AJ	Ok
2	I.BLK		FG016826.D	24 Oct 2025 12:56		YP\AJ	Ok
3	50 PPM TRPH STD		FG016827.D	24 Oct 2025 13:26		YP\AJ	Ok,NS
4	RT MARKER		FG016828.D	24 Oct 2025 15:59		YP\AJ	Ok
5	PB170250BL		FG016829.D	24 Oct 2025 16:29		YP\AJ	Ok
6	PB170250BS		FG016830.D	24 Oct 2025 16:58		YP\AJ	Ok,NS
7	Q3410-01		FG016831.D	24 Oct 2025 17:28		YP\AJ	Ok
8	Q3410-01MS		FG016832.D	24 Oct 2025 17:57	FG016831.D	YP\AJ	Ok,NS
9	Q3410-01MSD		FG016833.D	24 Oct 2025 18:27	FG016831.D!FG016833.D	YP\AJ	Ok,NS
10	I.BLK		FG016834.D	24 Oct 2025 18:56		YP\AJ	Ok
11	50 PPM TRPH STD		FG016835.D	24 Oct 2025 19:26		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137592

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
Q3399-01	COMP-ROLLOFF	13	1.15	10.96	12.11	11.00	89.9	
Q3401-01	41-CONCRETE	1	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3402-01	41-LA	2	1.15	10.90	12.05	8.69	69.2	
Q3402-02	41-LA-E2	3	1.13	10.64	11.77	10.2	85.2	
Q3402-04	41-RA	4	1.16	10.73	11.89	7.61	60.1	
Q3402-05	41-RA-E2	5	1.16	10.98	12.14	7.39	56.7	
Q3402-07	41-LB	6	1.16	10.77	11.93	8.26	65.9	
Q3402-08	41-LB-E2	7	1.16	10.95	12.11	6.22	46.2	
Q3402-10	41-RB	8	1.11	10.87	11.98	7.01	54.3	
Q3402-11	41-RB-E2	9	1.15	10.68	11.83	9.78	80.8	
Q3403-01	MH-18	10	1.19	10.49	11.68	10.75	91.1	
Q3403-02	MH-18-EPH	11	1.16	10.66	11.82	10.8	90.4	
Q3403-03	MH-18-VOC	12	1.19	11.37	12.56	11.59	91.5	
Q3404-01	MOO-25-0285-0288	14	1.15	10.74	11.89	10.22	84.5	
Q3404-03	MOO-25-0285-0288-E2	15	1.19	10.42	11.61	9.77	82.3	
Q3404-04	MOO-25-0292	16	1.18	10.22	11.4	10.5	91.2	
Q3404-07	MOO-25-0292-EPH-2	17	1.14	10.27	11.41	10.44	90.6	
Q3405-01	PAD-10-20-25-A	18	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3405-02	PAD-10-20-25-B	19	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3405-03	PAD-10-20-25-C	20	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3405-04	SW-10-20-25-A	21	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3406-01	ARS20-0037	22	1.18	11.19	12.37	11.24	89.9	
Q3406-03	ARS20-0037-E2	23	1.18	11.48	12.66	11.4	89.0	
Q3407-01	L35-A	24	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-02	L35-B	25	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-03	L36-A	26	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-04	L36-B	27	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-05	L37-A	28	1.00	1.00	2.00	2.00	100.0	PILC



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137592

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
Q3407-06	L37-B	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-07	L38-A	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-08	L38-B	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-09	L39-A	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-10	L39-B	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-11	L40-A	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-12	L40-B	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-13	L41-A	36	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-14	L41-B	37	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-15	L42-A	38	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-16	L42-B	39	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-17	L43-A	40	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-18	L43-B	41	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-19	L44-A	42	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-20	L44-B	43	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-21	L45-A	44	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-22	L45-B	45	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-23	L46-A	46	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-24	L46-B	47	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-25	L47-A	48	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-26	L47-B	49	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-27	L48-A	50	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-28	L48-B	51	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-29	L49-A	52	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-30	L49-B	53	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-31	L50-A	54	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-32	L50-B	55	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-33	L51-A	56	1.00	1.00	2.00	2.00	100.0	PILC



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137592

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
Q3407-34	L51-B	57	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-35	L52-A	58	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-36	L52-B	59	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-37	L53-A	60	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-38	L53-B	61	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-39	245F69-A	62	1.00	1.00	2.00	2.00	100.0	PILC
Q3407-40	245F69-B	63	1.00	1.00	2.00	2.00	100.0	PILC
Q3408-01	ASPHALT-A	64	1.00	1.00	2.00	2.00	100.0	ASPHALT
Q3408-02	ASPHALT-B	65	1.00	1.00	2.00	2.00	100.0	ASPHALT
Q3408-03	ASPHALT-C	66	1.00	1.00	2.00	2.00	100.0	ASPHALT
Q3408-04	ASPHALT-D	67	1.00	1.00	2.00	2.00	100.0	ASPHALT
Q3409-01	EXCAVATION-AREA-A	68	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3409-02	EXCAVATION-AREA-B	69	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3410-01	WASTE	70	1.14	10.45	11.59	9.59	80.9	
Q3410-02	VOC	71	1.15	10.55	11.7	9.64	80.5	
Q3410-03	1	72	1.15	10.97	12.12	9.89	79.7	
Q3410-04	2	73	1.13	11.27	12.4	11.24	89.7	
Q3410-05	3	74	1.16	10.62	11.78	9.6	79.5	
Q3410-06	4	75	1.12	10.50	11.62	9.76	82.3	
Q3410-07	5	76	1.16	10.50	11.66	9.43	78.8	
Q3412-01	TP-6	77	1.14	10.81	11.95	10.84	89.7	
Q3412-02	TP-6-EPH	78	1.18	10.73	11.91	10.7	88.7	
Q3412-03	TP-6-VOC	79	1.15	10.52	11.67	10.38	87.7	
Q3413-01	BP-VPB-184-GW-980-982	80	1.14	11.55	12.69	2.00	7.4	sludge sample
Q3414-01	SB-1	81	1.13	10.12	11.25	11.17	99.2	
Q3414-02	SB-2	82	1.15	10.62	11.77	11.6	98.4	
Q3414-03	SB-3	83	1.13	10.53	11.66	11.4	97.5	
Q3414-04	SB-4	84	1.14	10.28	11.42	11.3	98.8	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137592

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
Q3414-05	SB-5	85	1.16	10.25	11.41	11.34	99.3	
Q3414-06	SB-6	86	1.18	10.36	11.54	11.49	99.5	
Q3414-07	SB-7	87	1.15	10.25	11.4	11.26	98.6	
Q3414-08	SB-8	88	1.19	10.25	11.44	11.14	97.1	
Q3414-09	SB-9	89	1.16	10.31	11.47	11.18	97.2	
Q3414-10	SB-10	90	1.14	10.55	11.69	11.6	99.1	
Q3414-11	SB-11	91	1.19	10.20	11.39	11.04	96.6	
Q3414-12	SB-12	92	1.18	10.10	11.28	10.9	96.2	
Q3414-13	SB-13	93	1.14	10.06	11.2	10.85	96.5	
Q3415-01	50841	94	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3415-02	50842	95	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3415-03	50843	96	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3416-01	NB-08-10212025	97	1.15	10.52	11.67	11.02	93.8	
Q3416-02	NB-08-10212025-E2	98	1.18	10.92	12.1	11.43	93.9	

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

WORKLIST(Hardcopy Internal Chain)

137592

WorkList Name : %1-102125 WorkList ID : 192565 Department : Wet-Chemistry Date : 10-21-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3399-01	COMP-ROLLOFF	Solid	Percent Solids	Cool 4 deg C	ICES02	D41	10/20/2025	Chemtech -SO
Q3401-01	41-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-01	41-LA	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-02	41-LA-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-04	41-RA	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-05	41-RA-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-07	41-LB	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-08	41-LB-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-10	41-RB	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3402-11	41-RB-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3403-01	MH-18	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3403-02	MH-18-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3403-03	MH-18-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3404-01	MOO-25-0285-0288	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3404-03	MOO-25-0285-0288-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3404-04	MOO-25-0292	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3404-07	MOO-25-0292-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3405-01	PAD-10-20-25-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3405-02	PAD-10-20-25-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3405-03	PAD-10-20-25-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3405-04	SW-10-20-25-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO

Date/Time 10/21/25 15:00 Date/Time 10/21/25 Date/Time 17130
 Raw Sample Received by: 88 WOC Raw Sample Received by: CP 8 Raw Sample Received by: 88 WOC
 Raw Sample Relinquished by: CP 8 Raw Sample Relinquished by: 88 WOC

WORKLIST(Hardcopy Internal Chain)

137592

WorkList Name : %1-102125 WorkList ID : 192565 Department : Wet-Chemistry Date : 10-21-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3406-01	ARS20-0037	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3406-03	ARS20-0037-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3407-01	L35-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-02	L35-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-03	L36-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-04	L36-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-05	L37-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-06	L37-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-07	L38-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-08	L38-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-09	L39-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-10	L39-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-11	L40-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-12	L40-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-13	L41-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-14	L41-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-15	L42-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-16	L42-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-17	L43-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-18	L43-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-19	L44-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO

Date/Time 10/21/25 15:00
 Raw Sample Received by: SS WOC
 Raw Sample Relinquished by: QFS

Date/Time 10/21/25 17:30
 Raw Sample Received by: QFS
 Raw Sample Relinquished by: SS WOC

WORKLIST(Hardcopy Internal Chain)

137592

WorkList Name : %1-102125 WorkList ID : 192565 Department : Wet-Chemistry Date : 10-21-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3407-20	L44-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-21	L45-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-22	L45-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-23	L46-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-24	L46-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-25	L47-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-26	L47-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-27	L48-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-28	L48-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-29	L49-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-30	L49-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-31	L50-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-32	L50-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-33	L51-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-34	L51-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-35	L52-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-36	L52-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-37	L53-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-38	L53-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-39	245F69-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3407-40	245F69-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO

Date/Time 10/21/25 151.00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 10/21/25 17130
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

137592

WorkList Name : %1-102125 WorkList ID : 192565 Department : Wet-Chemistry Date : 10-21-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3408-01	ASPHALT-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3408-02	ASPHALT-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3408-03	ASPHALT-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3408-04	ASPHALT-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3409-01	EXCAVATION-AREA-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3409-02	EXCAVATION-AREA-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/20/2025	Chemtech -SO
Q3410-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	J11	10/20/2025	Chemtech -SO
Q3410-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	J11	10/20/2025	Chemtech -SO
Q3410-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	J11	10/20/2025	Chemtech -SO
Q3410-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	J11	10/20/2025	Chemtech -SO
Q3410-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	J11	10/20/2025	Chemtech -SO
Q3410-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	J11	10/20/2025	Chemtech -SO
Q3410-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	J11	10/20/2025	Chemtech -SO
Q3412-01	TP-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3412-02	TP-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3412-03	TP-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/20/2025	Chemtech -SO
Q3413-01	BP-VPB-184-GW-980-982	Solid	Percent Solids	Cool 4 deg C	TETR06	D31	10/20/2025	Chemtech -SO
Q3414-01	SB-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-02	SB-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-03	SB-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-04	SB-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO

Date/Time
10/21/25
15:00

Raw Sample Received by:
TB WWC

Raw Sample Relinquished by:
OPSN

Date/Time
10/21/25
17:230

Raw Sample Received by:
CP SN

Raw Sample Relinquished by:
TB WWC

WORKLIST(Hardcopy Internal Chain)

W-137592

WorkList Name : %1-102125 WorkList ID : 192565 Department : Wet-Chemistry Date : 10-21-2025 08:08:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3414-05	SB-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-06	SB-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-07	SB-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-08	SB-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-09	SB-9	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-10	SB-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-11	SB-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-12	SB-12	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3414-13	SB-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	D32	10/21/2025	Chemtech -SO
Q3415-01	50841	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3415-02	50842	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3415-03	50843	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/21/2025	Chemtech -SO
Q3416-01	NB-08-10212025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/21/2025	Chemtech -SO
Q3416-02	NB-08-10212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/21/2025	Chemtech -SO
Q3418-01	101725	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/21/2025	Chemtech -SO
Q3418-02	101725-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/21/2025	Chemtech -SO
Q3418-03	101725-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/21/2025	Chemtech -SO

Date/Time 10/21/25 15:00
 Raw Sample Received by: SB WCC
 Raw Sample Relinquished by: cd sm

Date/Time 10/21/25 17:30
 Raw Sample Received by: cd sm
 Raw Sample Relinquished by: SB WCC

SOP ID: M3541-ASE Extraction-15

Clean Up SOP #: N/A

Extraction Start Date : 10/24/2025

Matrix : Solid

Extraction Start Time : 09:55

Weigh By: EH

Extraction By: EH

Extraction End Date : 10/24/2025

Balance check: EH

Filter By: RS

Extraction End Time : 13:10

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

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	PP24583
Surrogate	1.0ML	20 PPM	PP24596
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	EP2641
Baked Na2SO4	N/A	EP2652
Methylene Chloride	N/A	E3980
Sand	N/A	E3951
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# 2210443.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

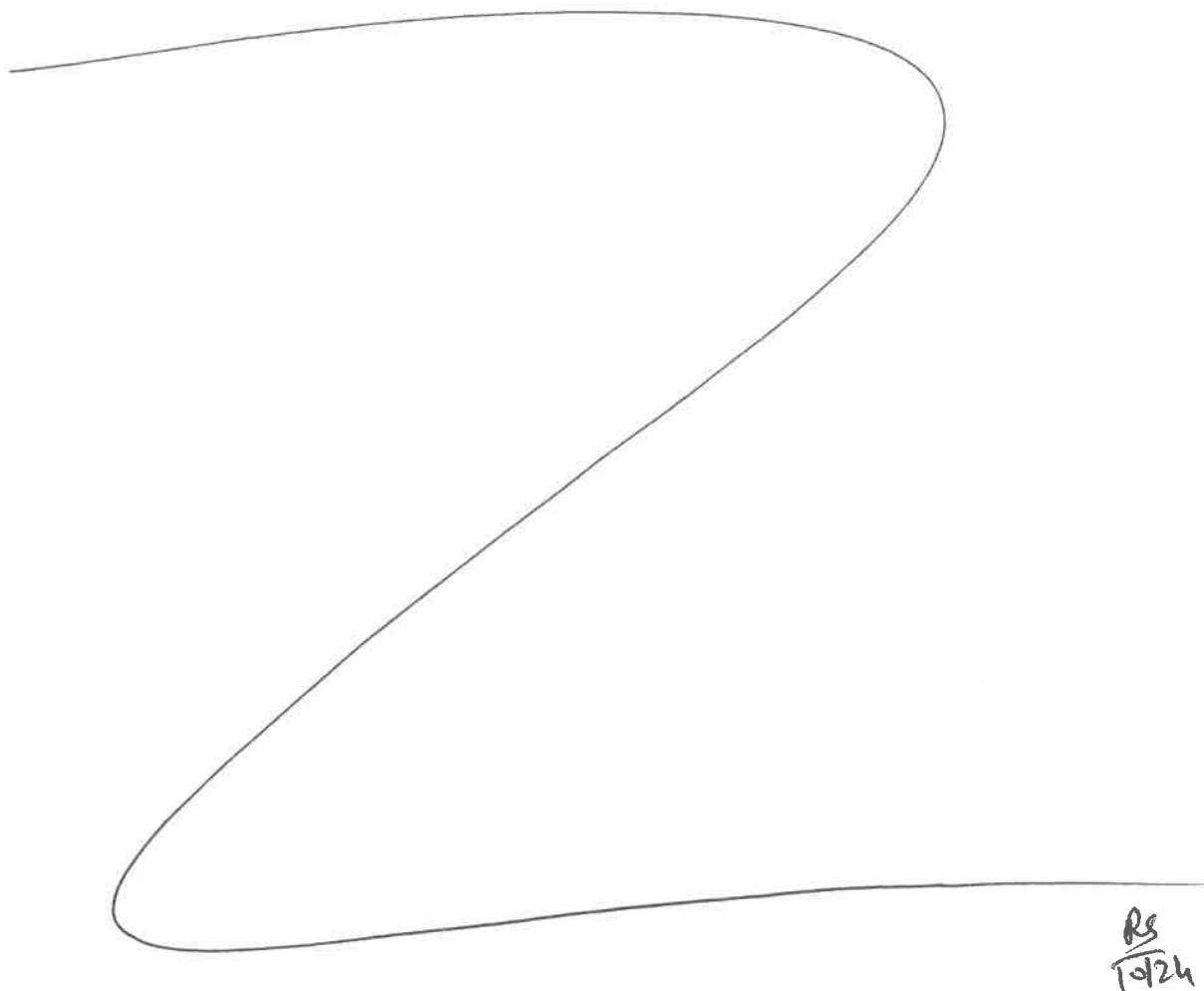
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/24/25	RS (Ext Lab)	P. Pest/PCB Lab
13:15	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-15

Concentration Date: 10/24/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170250BL	PB170250BL	TPH GC	30.01	N/A	ritesh	Evelyn	1			U1-1
PB170250BS	PB170250BS	TPH GC	30.02	N/A	ritesh	Evelyn	1			2
Q3410-01	WASTE	TPH GC	30.04	N/A	ritesh	Evelyn	1			3
Q3410-01MS	WASTEMS	TPH GC	30.09	N/A	ritesh	Evelyn	1			4
Q3410-01MS D	WASTEMSD	TPH GC	30.07	N/A	ritesh	Evelyn	1			5



174253

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3410T WorkList ID : 192663 Department : Extraction Date : 10-24-2025 09:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3410-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	J11	10/20/2025	8015D

Date/Time 10/24/25 9:50
Raw Sample Received by: RJ (EXT 106)
Raw Sample Relinquished by: [Signature]

Date/Time 10/24/25 10:05
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: RJ (EXT 106)

Prep Standard - Chemical Standard Summary

Order ID : Q3410

Test : TPH GC

Prepbatch ID : PB170250,

Sequence ID/Qc Batch ID: FG102425,

Standard ID :

EP2641,EP2652,PP24583,PP24596,PP24962,PP24963,PP24964,PP24965,PP24966,PP24967,PP24968,

Chemical ID :

E3875,E3930,E3931,E3951,E3964,E3972,E3973,E3980,P11957,P11961,P13220,P13221,P13483,P13484,P13485,P13486,P13491,P13938,P13945,

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	EP2641	09/16/2025	03/16/2026	Evelyn Huang	None	None	Riteshkumar Patel
09/16/2025								

FROM 8000.00000ml of E3972 + 8000.00000ml of E3973 = 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	EP2652	10/10/2025	01/28/2026	Evelyn Huang	Extraction_SC ALE_2	None	Riteshkumar Patel
(EX-SC-2)								

FROM 4000.00000gram of E3875 = 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>
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP24583	05/16/2025	11/16/2025	Rahul Chavli	None	None	Yogesh Patel
								05/22/2025

FROM 0.70000ml of P13945 + 1.30000ml of P13938 + 48.00000ml of E3930 = 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	PP24596	05/20/2025	11/20/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 1.00000ml of P13483 + 1.00000ml of P13484 + 1.00000ml of P13485 + 1.00000ml of P13486 + 196.00000ml of E3931 = Final Quantity: 200.000 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>
433	100/100 PPM DRO (Restek)	PP24962	10/02/2025	04/02/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 1.00000ml of P11957 + 1.00000ml of P11961 + 1.00000ml of P13491 = 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)	PP24963	10/02/2025	04/02/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 1.00000ml of P13220 + 1.00000ml of P13221 + 1.00000ml of P13491 + 7.00000ml of E3964 = 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)	PP24964	10/02/2025	04/02/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.50000ml of E3973 + 0.50000ml of PP24962 = 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)	PP24965	10/02/2025	04/02/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.80000ml of E3973 + 0.20000ml of PP24962 = 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)	PP24966	10/02/2025	04/02/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.90000ml of E3973 + 0.10000ml of PP24962 = 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)	PP24967	10/02/2025	04/02/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.90000ml of E3973 + 0.10000ml of PP24964 = 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)	PP24968	10/02/2025	04/02/2026	Yogesh Patel	None	None	Abdul Mirza
								10/10/2025

FROM 0.50000ml of E3973 + 0.50000ml of PP24963 = Final Quantity: 1.000 ml

CHEMICAL RECEIPT LOG BOOK

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	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

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	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3931

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)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

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)	25C1262005	04/16/2026	08/14/2025 / RUPESH	03/06/2025 / RUPESH	E3964

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)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

CHEMICAL RECEIPT LOG BOOK

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

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)	25C1262005	04/16/2026	10/10/2025 / RUPESH	10/10/2025 / RUPESH	E3980

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	04/02/2026	10/02/2025 / yogesh	07/11/2022 / Yogesh	P11957

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	04/02/2026	10/02/2025 / yogesh	07/11/2022 / Yogesh	P11961

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	10/02/2026	10/02/2025 / yogesh	01/31/2024 / Ankita	P13220

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	10/02/2026	10/02/2025 / yogesh	01/31/2024 / Ankita	P13221

CHEMICAL RECEIPT LOG BOOK

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	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13483

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	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13484

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	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13485

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	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13486

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	04/02/2026	10/02/2025 / yogesh	07/24/2024 / yogesh	P13491

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0217113	11/16/2025	05/16/2025 / Rahul	03/07/2025 / yogesh	P13938

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	A0217113	11/16/2025	05/16/2025 / Rahul	03/07/2025 / yogesh	P13945



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

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 ₂ Cl 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 (μ 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

E3930

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

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 ₂ Cl 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 (μ 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

E3930

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



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 1/12/25.

E3951

Internal ID #: 793

Signature

We certify that this batch conforms to the specifications listed above.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.

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



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
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 Heptachlor Epoxide) 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	0.1 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

Received on .

E 3964

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 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 %	0.2 %
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

E3972

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.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
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	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	0.1 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

REC. on 10/10/25
RJ

E3980

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

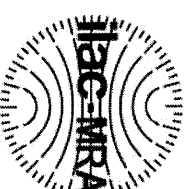
Bellefonte, PA 16823-8812

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 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:

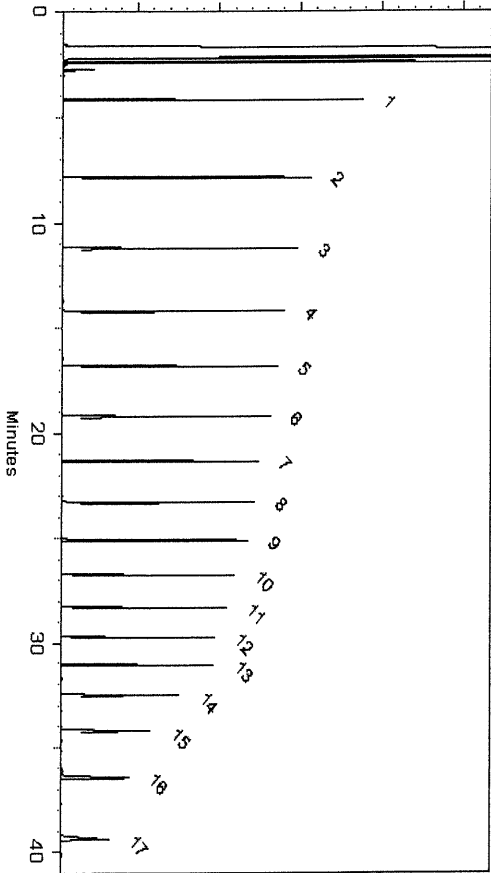
250°C

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

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

110 Benner Circle

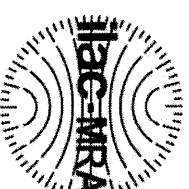
Belleville, PA 16823-8812

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:

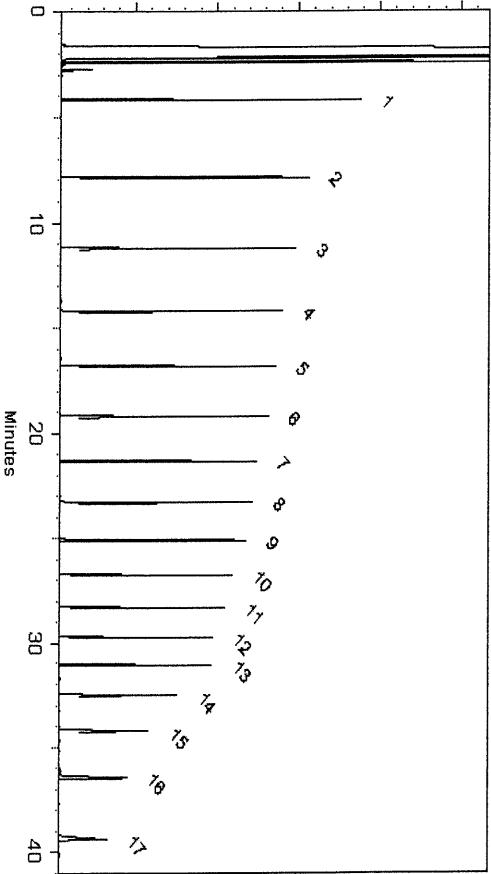
250°C

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

- 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.



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

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

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

tetatriacontane (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.

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-19280	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	8.34
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

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

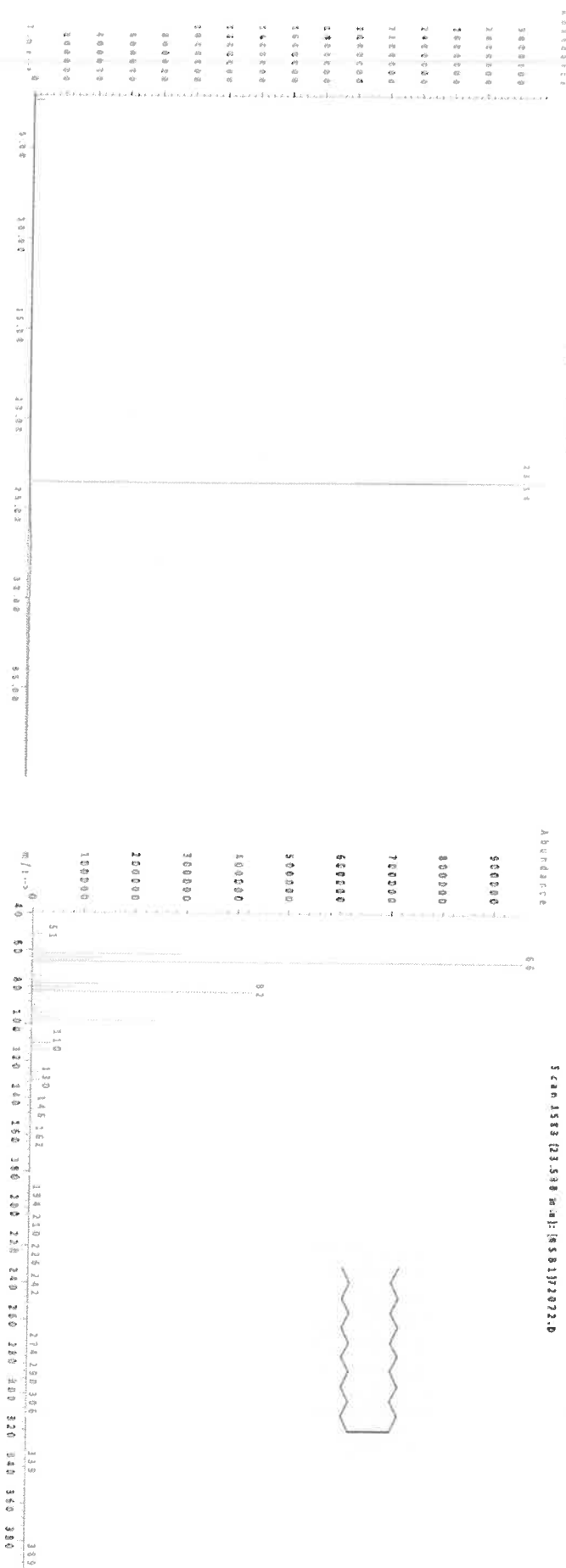
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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 070716

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070716
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)	MSDS Information (Solvent Safety Info. On Attached pg.)	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	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	8.34
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

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

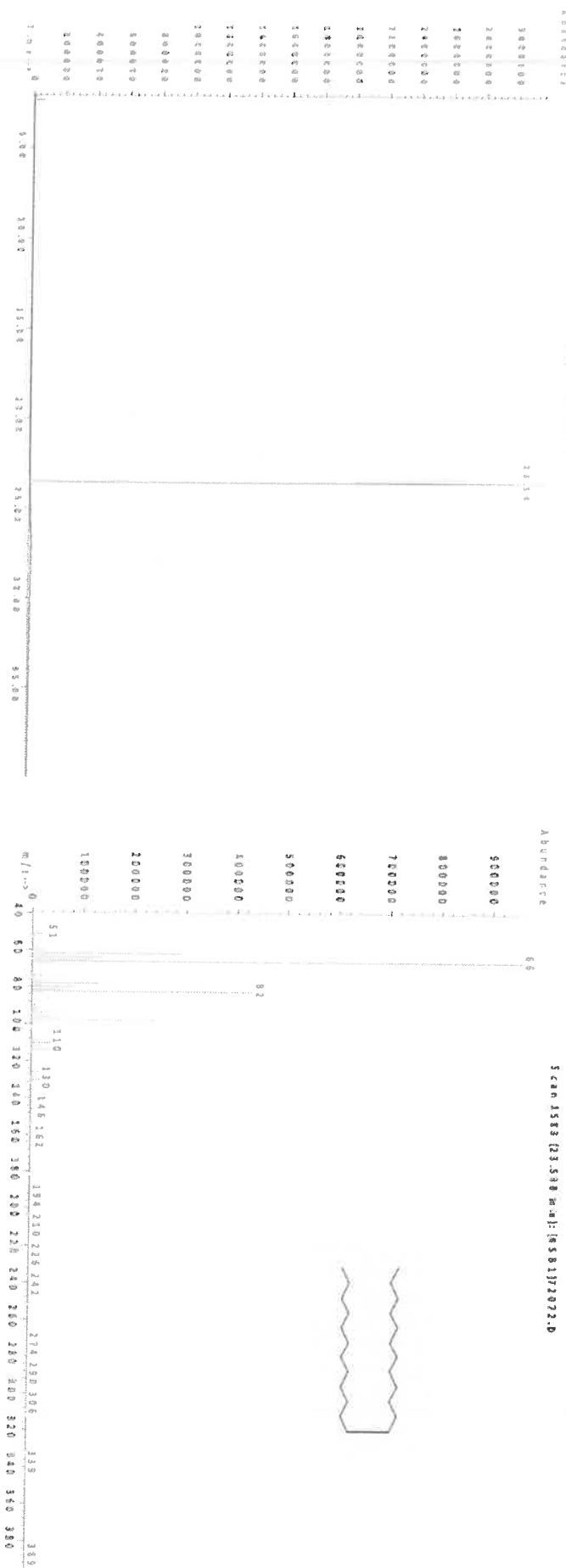
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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



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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.

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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#: 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	8.34
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

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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**

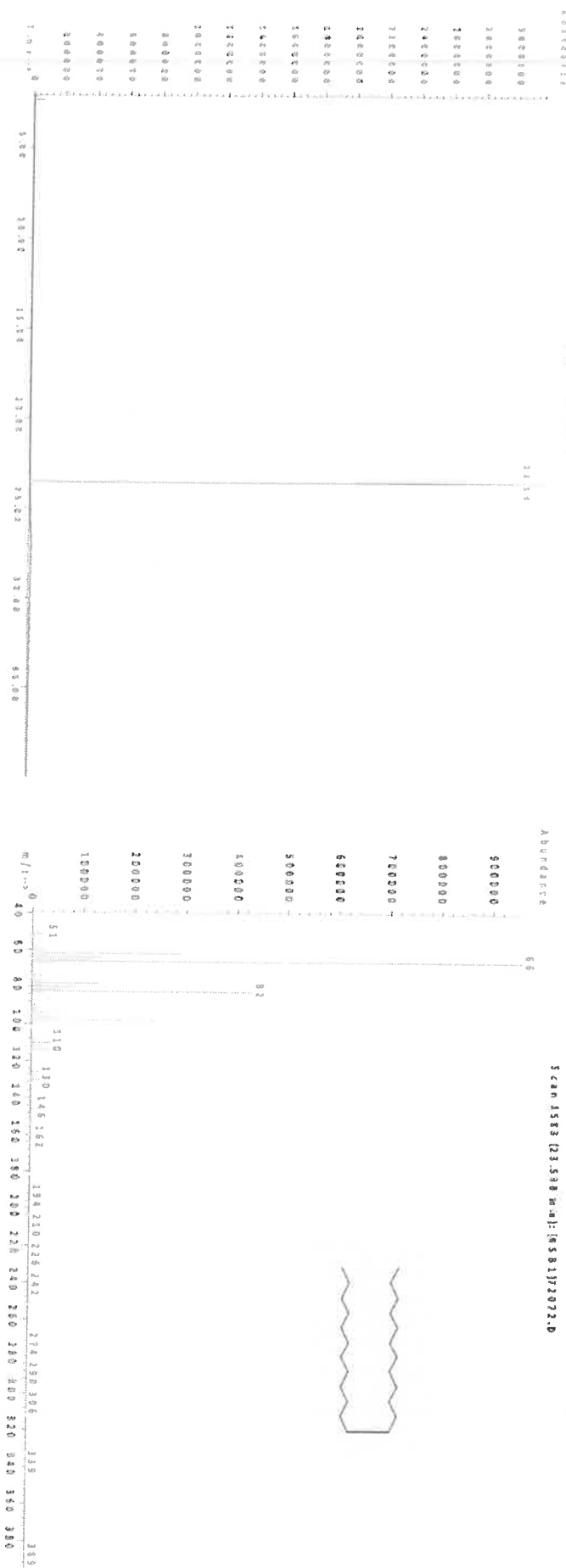
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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.

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

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Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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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#: 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

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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

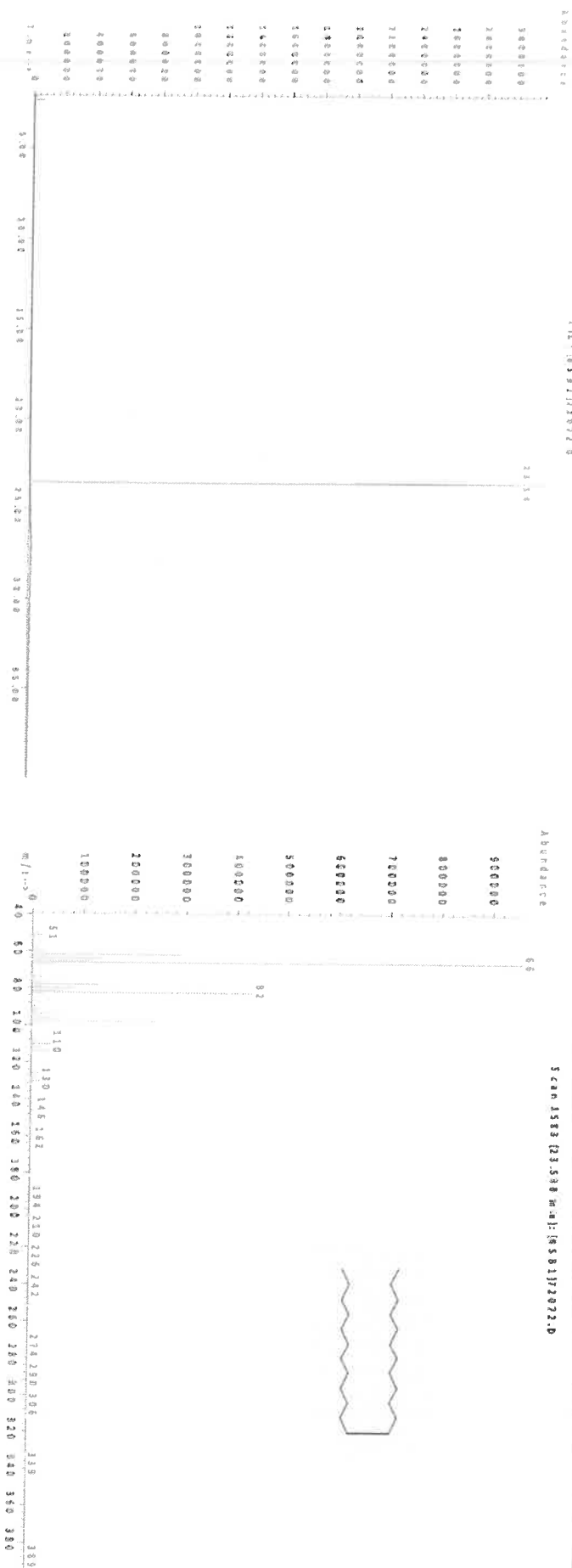
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
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	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	8.34
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

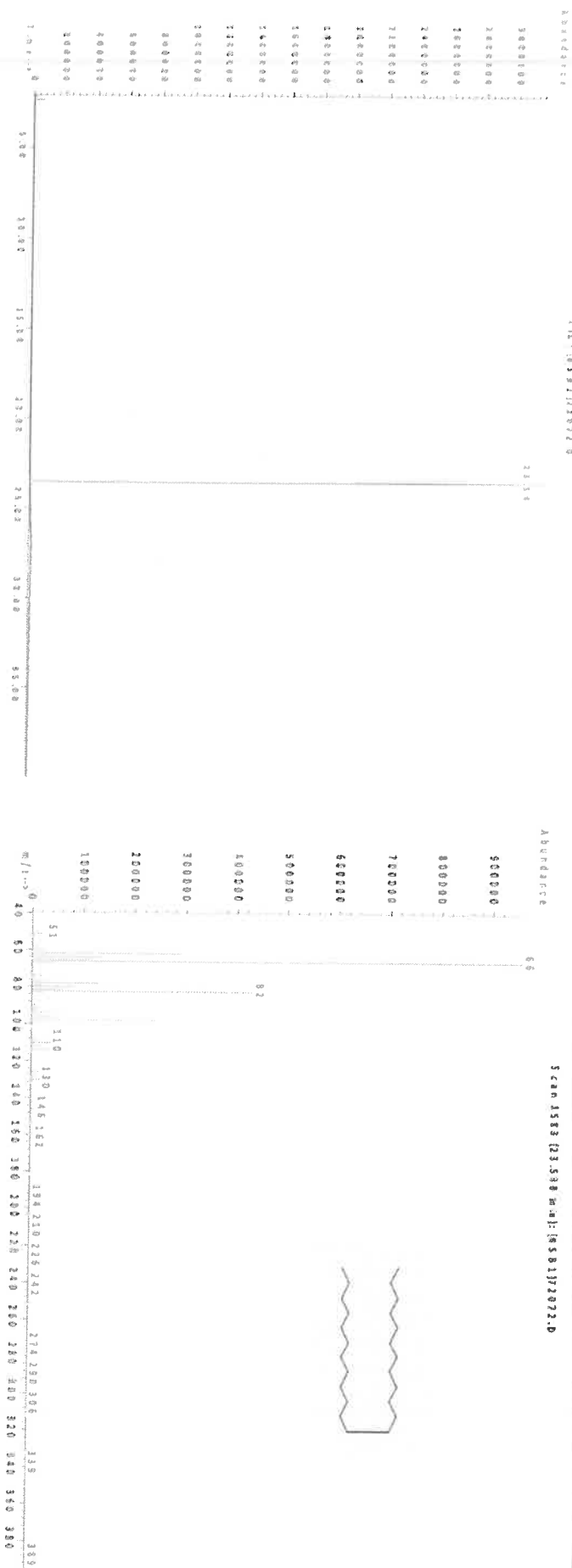
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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 (%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).



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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.: A0217113

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2031

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

P031937
*
P031946
Y.P.
03/07/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBR0789	99%	502.0 µg/mL	+/- 12.9685
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	501.5 µg/mL	+/- 12.9555
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	502.5 µg/mL	+/- 12.9814
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	500.5 µg/mL	+/- 12.9297
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	500.0 µg/mL	+/- 12.9168
6	n-Octadecane (C18)	593-45-3	UB5NG	99%	500.5 µg/mL	+/- 12.9297
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	500.0 µg/mL	+/- 12.9177
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	500.5 µg/mL	+/- 12.9297
9	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	500.5 µg/mL	+/- 12.9297
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	502.0 µg/mL	+/- 12.9685
11	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	501.0 µg/mL	+/- 12.9426
12	n-Triacontane (C30)	638-68-6	MKCV7007	98%	499.8 µg/mL	+/- 12.9116
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	500.0 µg/mL	+/- 12.9168
14	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	501.5 µg/mL	+/- 12.9555
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	500.5 µg/mL	+/- 12.9297
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	500.2 µg/mL	+/- 12.9209
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.5 µg/mL	+/- 13.0072

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

Quality Confirmation Test

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.)

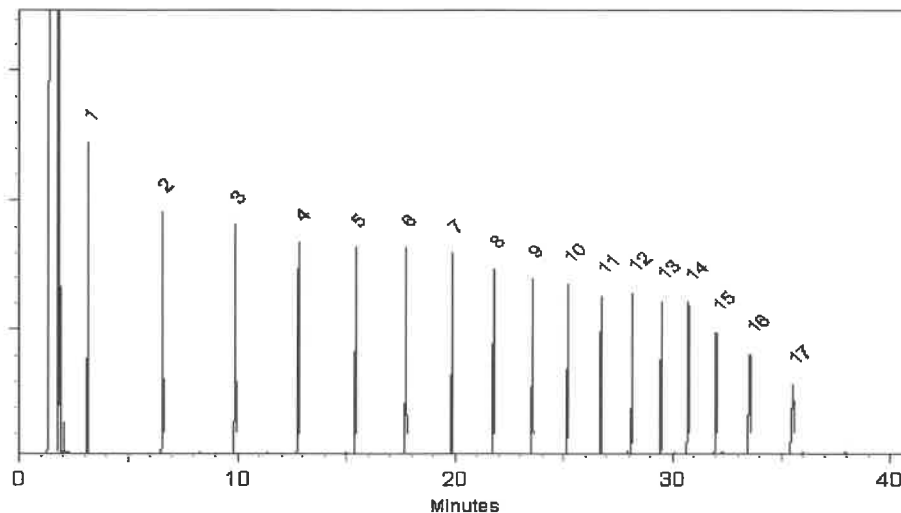
Inj. Temp:
250°C

Det. Temp:
330°C

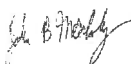
Det. Type:
FID

Split Vent:
2 ml/min.

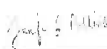
Inj. Vol
1µl



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.


Josh McCloskey - Operations Technician I

Date Mixed: 26-Sep-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 10-Oct-2024

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/ μ ECD, 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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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.: A0217113

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2031

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

P031937
*
P031946
Y.P.
03/07/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBR0789	99%	502.0 µg/mL	+/- 12.9685
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	501.5 µg/mL	+/- 12.9555
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	502.5 µg/mL	+/- 12.9814
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	500.5 µg/mL	+/- 12.9297
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	500.0 µg/mL	+/- 12.9168
6	n-Octadecane (C18)	593-45-3	UB5NG	99%	500.5 µg/mL	+/- 12.9297
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	500.0 µg/mL	+/- 12.9177
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	500.5 µg/mL	+/- 12.9297
9	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	500.5 µg/mL	+/- 12.9297
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	502.0 µg/mL	+/- 12.9685
11	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	501.0 µg/mL	+/- 12.9426
12	n-Triacontane (C30)	638-68-6	MKCV7007	98%	499.8 µg/mL	+/- 12.9116
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	500.0 µg/mL	+/- 12.9168
14	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	501.5 µg/mL	+/- 12.9555
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	500.5 µg/mL	+/- 12.9297
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	500.2 µg/mL	+/- 12.9209
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.5 µg/mL	+/- 13.0072

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

Quality Confirmation Test

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.)

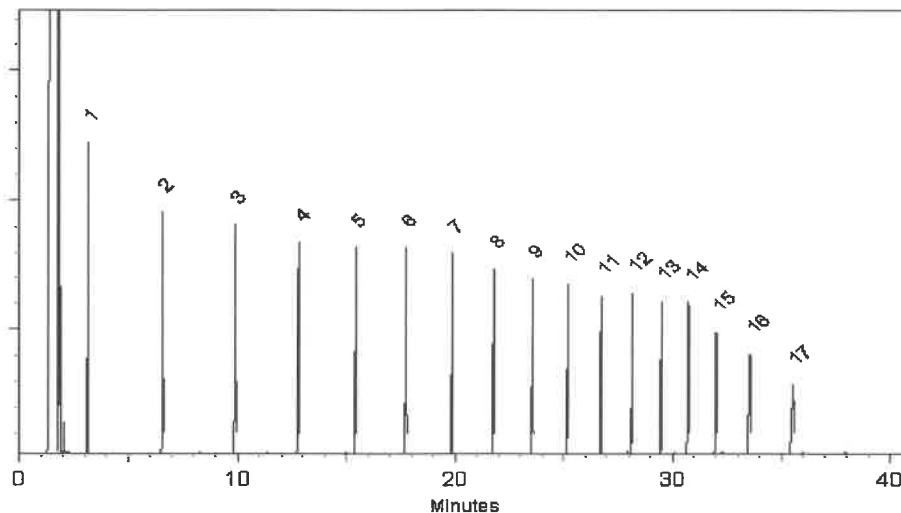
Inj. Temp:
250°C

Det. Temp:
330°C

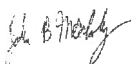
Det. Type:
FID

Split Vent:
2 ml/min.

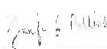
Inj. Vol
1µl



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.


Josh McCloskey - Operations Technician I

Date Mixed: 26-Sep-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 10-Oct-2024

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

Q 3410

49 Moore Place

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
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www.chemtech.net

Chemtech Project Number Belleville
COC Number Belleville

CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION	
Report to be sent to:		PROJECT NAME:		BILL TO:	PO#
COMPANY:		PROJECT #:	LOCATION:	ADDRESS:	
ADDRESS:		PROJECT MANAGER:		CITY:	STATE: ZIP:
CITY:	STATE: ZIP:	E-MAIL:		ATTENTION:	
ATTENTION:		PHONE:	FAX:	PHONE:	
PHONE: FAX:					

DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS	
FAX (RUSH):	DAYS*	☐ Level 1 (Results Only)	☐ Level 4 (QC + Full Raw Data)		
HARDCOPY (DATA PACKAGE):	DAYS*	☐ Level 2 (Results + QC)	☐ NJ Reduced ☐ US EPA CLP		
EDD:	DAYS*	☐ Level 3 (Results + QC + Raw Data)	☐ NYS ASP A ☐ NYS ASP B		
*TO BE APPROVED BY CHEMTECH		☐ EDD FORMAT	☐ Other		
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS					

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										← Specify Preservatives		
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	A-HCl	D-NaOH	
																	B-HNO3	E-ICE	
																		C-H2SO4	F-OTHER
1.	WASTE				10/20	2-	1	X											
2.	VOC					830	1		X										
3.	1					1030	1			X									
4.	2					10-	1			X									
5.	3					245	1			X									
6.	4					915	1			X									
7.	5					915	1			X									
8.																			
9.																			
10.																			

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

RELINQUISHED BY SAMPLER	DATE/TIME 1550	RECEIVED BY	1550	Conditions of bottles or colors at receipt: ☐ COMPLAINT ☐ NON COMPLAINT ☐ COOLER TEMP <u>3.5°</u>
1.	10-20-25	1.	10-20-25	Comments:
RELINQUISHED BY	DATE/TIME	RECEIVED BY		
2.		2.		
RELINQUISHED BY	DATE/TIME 1710	RECEIVED FOR LAB BY		CLIENT: ☐ Hand Delivered ☐ Other: _____
3.	10-20-25	3.		CHEMTECH: ☐ Picked Up
Page _____ of _____				Shipment Complete ☐ YES ☐ NO

10/2018

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

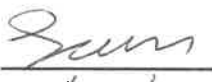
LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3410	SCIA01	Order Date : 10/20/2025 4:05:00 PM	Project Mgr :
Client Name : Sciacca General Contractor:		Project Name : 49 Moore Place Belleville	Report Type : Results Only
Client Contact : Rosanne Scirica		Receive DateTime : 10/20/2025 5:00:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Sciacca General Contractor:		Purchase Order : 5:10:00 	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
Q3410-02	VOC	Solid	10/20/2025	08:30	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : 

Date / Time : 10-20-25

Received By : 

Date / Time : 10/21/25 8:00

Storage Area : VOA Refridgerator Room

1846
P22