

Cover Page

Order ID : Q2486

Project ID : 98 Morse Ave Nutley

Client : Sciacca General Contractors, LLC

Lab Sample Number

Q2486-01
Q2486-02
Q2486-03
Q2486-04
Q2486-05
Q2486-06
Q2486-07

Client Sample Number

WASTE
VOC
1
2
3
4
5

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 7/5/2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2486

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAHESH PATEL

Date: 07/05/2025

LAB CHRONICLE

OrderID: Q2486	OrderDate: 7/2/2025 9:45:00 AM
Client: Sciacca General Contractors, LLC	Project: 98 Morse Ave Nutley
Contact: Rosanne Scirica	Location: A61,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2486-01	WASTE	SOIL	TPH GC	8015D	07/01/25	07/10/25	07/10/25	07/01/25
Q2486-03	1	Solid	EPH_F2	NJEPH	07/01/25	07/08/25	07/08/25	07/01/25
Q2486-04	2	Solid	EPH_F2	NJEPH	07/01/25	07/08/25	07/08/25	07/01/25
Q2486-05	3	Solid	EPH_F2	NJEPH	07/01/25	07/08/25	07/08/25	07/01/25
Q2486-06	4	Solid	EPH_F2	NJEPH	07/01/25	07/08/25	07/08/25	07/01/25
Q2486-07	5	Solid	EPH_F2	NJEPH	07/01/25	07/08/25	07/08/25	07/01/25



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.: Q2486

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016136.D	101				0
PIBLK-FF016144.D	107				0
PIBLK-FG016271.D	95				0
PIBLK-FG016271.D	96				0
PIBLK-FG016280.D	96				0
PB168785BL	93				0
PB168785BS	94				0
PIT#4MS	62				0
PIT#4MSD	62				0
WASTE	56				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: Alliance

Client: Sciacca General Contractors, LLC

Lab Code: ACE

SDG No: Q2486

Client Sample ID : PIT#4MS

Datafile: FF016140.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12475	17300	26567	74%		68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance

Client: Sciacca General Contractors, LLC

Lab Code: ACE

SDG No: Q2486

Client Sample ID : PIT#4MSD

Datafile: FF016141.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12487	17300	27090	78%		68-131

MS/MSD % Recovery RPD : 5.4

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

Lab Name: Alliance

Client: Sciacca General Contractors, LLC

Lab Code: ACE

SDG No: Q2486

Client Sample ID : PB168785BS

Datafile: FG016275.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
Petroleum Hydrocarbons	11330	0	9997	88	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168785BL

Lab Name: Alliance

Contract: SCIA01

Lab Code: ACE

SDG NO.: Q2486

Lab File ID: FG016274.D

Lab Sample ID: PB168785BL

Instrument ID: FG

Date Extracted: 07/10/2025

Matrix: (soil/water) Soil

Date Analyzed: 07/10/25

Level: (low/med) low

Time Analyzed: 13:43

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PIT#4MS	Q2473-04MS	FF016140.D	07/10/25
PIT#4MSD	Q2473-04MSD	FF016141.D	07/10/25
WASTE	Q2486-01	FF016142.D	07/10/25
PB168785BS	PB168785BS	FG016275.D	07/10/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	07/01/25	
Project:	98 Morse Ave Nutley		Date Received:	07/01/25	
Client Sample ID:	WASTE		SDG No.:	Q2486	
Lab Sample ID:	Q2486-01		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	83.5	Decanted:
Sample Wt/Vol:	30.04	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016142.D	1	07/10/25 09:00	07/10/25 17:42	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	35700		459	3390	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.1		37 - 130	56%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016142.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 17:42
Operator : YP\AJ
Sample : Q2486-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTE

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
Quant Time: Jul 11 02:58:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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...	15.097	1081519	11.107 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016142.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 17:42
Operator : YP\AJ
Sample : Q2486-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

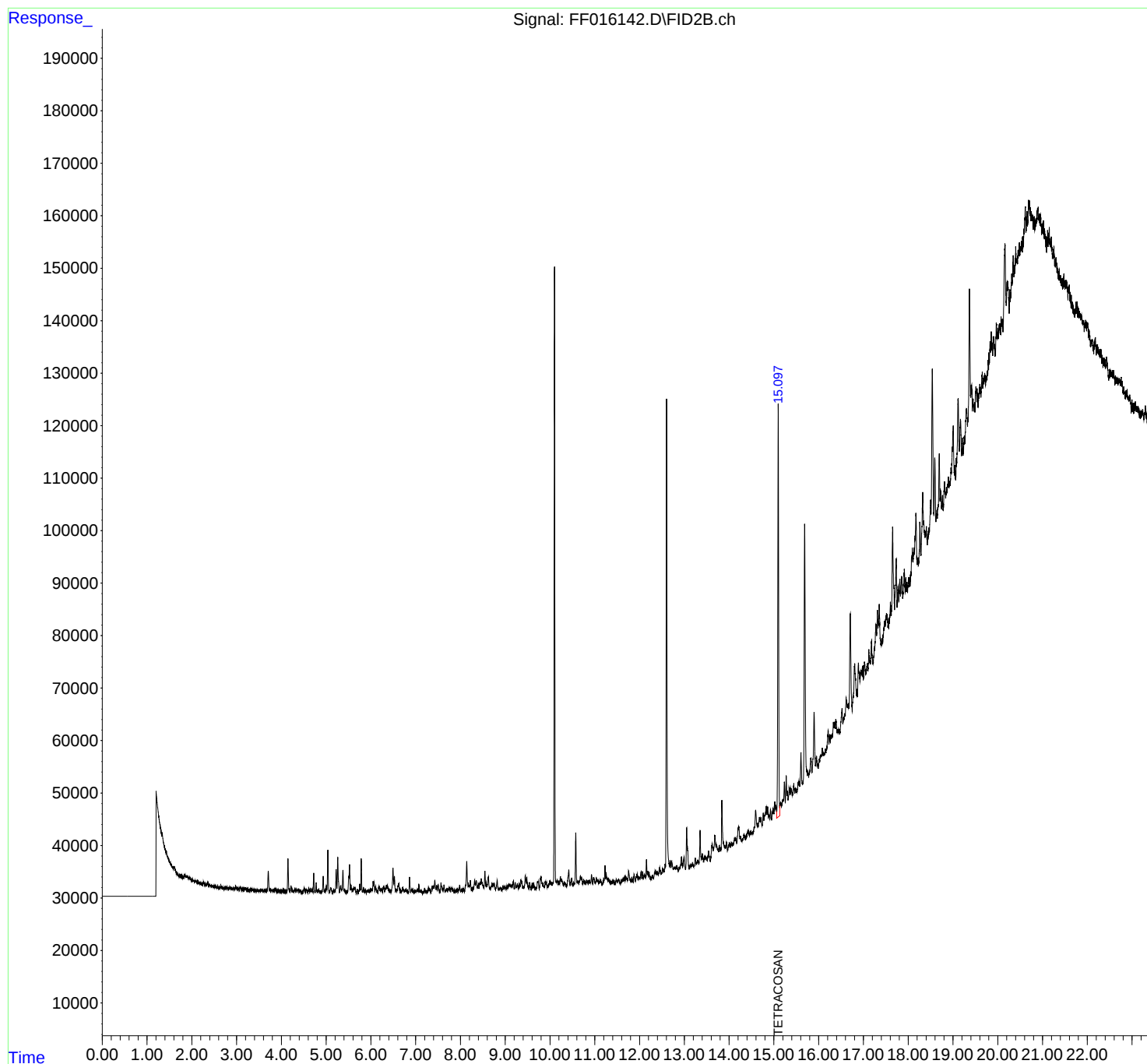
Instrument :
FID_F
ClientSampleId :
WASTE

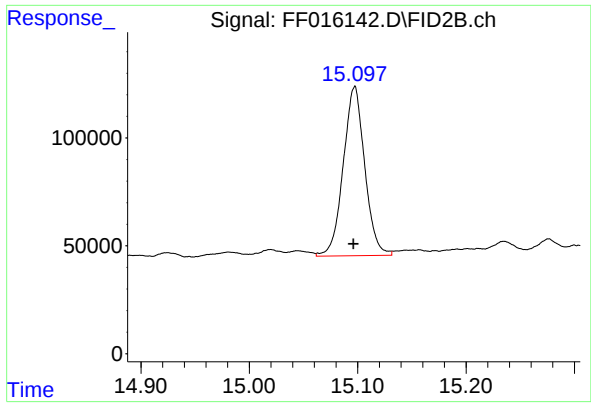
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
Quant Time: Jul 11 02:58:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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.: 15.097 min
Delta R.T.: 0.001 min
Response: 1081519
Conc: 11.11 ug/ml

Instrument :
FID_F
ClientSampleId :
WASTE

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

rtres

Instrument :

FID_F

ClientSampleId :

WASTE

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025.M
Data File : FF016142.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 17:42
Sample : Q2486-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.205	1.198	1.334	BV	19715	1207429	65.50%	1.249%
2	1.340	1.334	1.428	VV	12127	551996	29.95%	0.571%
3	1.434	1.428	1.555	VV	8573	524036	28.43%	0.542%
4	1.563	1.555	1.590	VV	5595	114750	6.23%	0.119%
5	1.609	1.590	1.726	VV	5599	371506	20.15%	0.384%
6	1.730	1.726	1.738	VV	3927	25507	1.38%	0.026%
7	1.741	1.738	1.821	VV	3871	183388	9.95%	0.190%
8	1.844	1.821	1.875	VV	3959	120663	6.55%	0.125%
9	1.891	1.875	1.937	VV	3830	132187	7.17%	0.137%
10	1.952	1.937	1.999	VV	3379	120886	6.56%	0.125%
11	2.002	1.999	2.070	VV	3100	122628	6.65%	0.127%
12	2.077	2.070	2.115	VV	2808	73180	3.97%	0.076%
13	2.120	2.115	2.126	VV	2631	17881	0.97%	0.018%
14	2.133	2.126	2.177	VV	2611	74501	4.04%	0.077%
15	2.179	2.177	2.183	VV	2395	9506	0.52%	0.010%
16	2.187	2.183	2.221	VV	2419	51677	2.80%	0.053%
17	2.227	2.221	2.234	VV	2349	17552	0.95%	0.018%
18	2.264	2.234	2.332	VV	2642	129817	7.04%	0.134%
19	2.353	2.332	2.388	VV	2571	72603	3.94%	0.075%
20	2.407	2.388	2.442	VV	2017	60311	3.27%	0.062%
21	2.447	2.442	2.478	VV	1816	37447	2.03%	0.039%
22	2.488	2.478	2.569	VV	1815	90044	4.88%	0.093%
23	2.583	2.569	2.613	VV	1625	40736	2.21%	0.042%
24	2.619	2.613	2.626	VV	1543	10810	0.59%	0.011%
25	2.652	2.626	2.668	VV	1673	39479	2.14%	0.041%
26	2.673	2.668	2.699	VV	1536	27623	1.50%	0.029%
27	2.709	2.699	2.723	VV	1419	19064	1.03%	0.020%
28	2.726	2.723	2.730	VV	1327	5631	0.31%	0.006%
29	2.770	2.730	2.811	VV	1572	68051	3.69%	0.070%
30	2.816	2.811	2.832	VV	1345	16066	0.87%	0.017%
31	2.843	2.832	2.857	VV	1425	20614	1.12%	0.021%
32	2.865	2.857	2.887	VV	1469	24523	1.33%	0.025%
33	2.890	2.887	2.918	VV	1303	24176	1.31%	0.025%
34	2.934	2.918	2.944	VV	1284	18667	1.01%	0.019%
35	2.979	2.944	3.008	VV	1708	53775	2.92%	0.056%
36	3.017	3.008	3.060	VV	1316	38434	2.09%	0.040%

					nteres			
37	3.082	3.060	3.137	VV	1547	56543	3.07%	0.058%
38	3.144	3.137	3.159	VV	1129	14221		
39	3.167	3.159	3.180	VV	1162	14129		
40	3.196	3.180	3.232	VV	1403	35967		
41	3.249	3.232	3.253	VV	1099	12430		
42	3.258	3.253	3.290	VV	1077	21516		
43	3.300	3.290	3.312	VV	981	11904	0.65%	0.012%
44	3.323	3.312	3.352	VV	1061	23205	1.26%	0.024%
45	3.356	3.352	3.360	VV	998	4396	0.24%	0.005%
46	3.377	3.360	3.393	VV	1020	18714	1.02%	0.019%
47	3.397	3.393	3.413	VV	964	10780	0.58%	0.011%
48	3.421	3.413	3.447	VV	873	16570	0.90%	0.017%
49	3.454	3.447	3.463	VV	820	7212	0.39%	0.007%
50	3.471	3.463	3.484	VV	939	10823	0.59%	0.011%
51	3.495	3.484	3.503	VV	857	9173	0.50%	0.009%
52	3.506	3.503	3.516	VV	857	6470	0.35%	0.007%
53	3.519	3.516	3.523	VV	838	3679	0.20%	0.004%
54	3.549	3.523	3.559	VV	911	18164	0.99%	0.019%
55	3.566	3.559	3.596	VV	945	18403	1.00%	0.019%
56	3.607	3.596	3.611	VV	836	6831	0.37%	0.007%
57	3.635	3.611	3.668	VV	836	25536	1.39%	0.026%
58	3.708	3.668	3.752	VV	4565	89181	4.84%	0.092%
59	3.765	3.752	3.787	VV	1012	18586	1.01%	0.019%
60	3.798	3.787	3.834	VV	907	22454	1.22%	0.023%
61	3.863	3.834	3.922	VV	1078	42060	2.28%	0.044%
62	3.938	3.922	3.969	VV	791	18937	1.03%	0.020%
63	3.972	3.969	3.983	VV	658	5001	0.27%	0.005%
64	3.986	3.983	4.013	VV	688	11236	0.61%	0.012%
65	4.039	4.013	4.103	VV	941	35550	1.93%	0.037%
66	4.148	4.103	4.188	VV	6828	105080	5.70%	0.109%
67	4.196	4.188	4.200	VV	754	5048	0.27%	0.005%
68	4.216	4.200	4.256	VV	1649	34579	1.88%	0.036%
69	4.259	4.256	4.272	VV	719	6073	0.33%	0.006%
70	4.276	4.272	4.280	VV	561	2902	0.16%	0.003%
71	4.303	4.280	4.317	VV	1070	18261	0.99%	0.019%
72	4.335	4.317	4.351	VV	952	16470	0.89%	0.017%
73	4.357	4.351	4.362	VV	776	4918	0.27%	0.005%
74	4.374	4.362	4.395	VV	957	15239	0.83%	0.016%
75	4.410	4.395	4.444	VV	866	19598	1.06%	0.020%
76	4.447	4.444	4.469	VV	477	6430	0.35%	0.007%
77	4.479	4.469	4.484	VV	545	4120	0.22%	0.004%
78	4.509	4.484	4.536	VV	1282	24812	1.35%	0.026%
79	4.557	4.536	4.589	VV	969	22202	1.20%	0.023%
80	4.616	4.589	4.637	VV	1030	19713	1.07%	0.020%
81	4.652	4.637	4.668	VV	1071	14372	0.78%	0.015%
82	4.688	4.668	4.706	VV	880	15343	0.83%	0.016%
83	4.723	4.706	4.755	VV	4014	48940	2.65%	0.051%
84	4.777	4.755	4.813	VV	2199	34159	1.85%	0.035%
85	4.832	4.813	4.857	VV	980	17358	0.94%	0.018%
86	4.863	4.857	4.884	VV	504	7119	0.39%	0.007%
87	4.898	4.884	4.906	VV	430	5148	0.28%	0.005%
88	4.935	4.906	4.958	VV	3375	46197	2.51%	0.048%
89	4.975	4.958	4.986	VV	742	9711	0.53%	0.010%

Instrument :

FID_F

ClientSampleId :

WASTE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

90	5.005	4.986	5.018	VV	1607	21011	1.14%	0.022%
91	5.039	5.018	5.070	VV	8426	101233		
92	5.111	5.070	5.145	VV	1149	30826		
93	5.169	5.145	5.185	VV	729	12444		
94	5.198	5.185	5.206	VV	625	6126		
95	5.224	5.206	5.243	VV	4722	53590		
96	5.260	5.243	5.301	VV	6987	103111	5.59%	0.107%
97	5.321	5.301	5.345	VV	1479	24990	1.36%	0.026%
98	5.376	5.345	5.395	VV	4545	60009	3.26%	0.062%
99	5.403	5.395	5.423	VV	946	11391	0.62%	0.012%
100	5.428	5.423	5.456	VV	499	8624	0.47%	0.009%
101	5.460	5.456	5.474	VV	443	3514	0.19%	0.004%
102	5.524	5.474	5.544	VV	5634	100259	5.44%	0.104%
103	5.557	5.544	5.583	VV	1637	25412	1.38%	0.026%
104	5.594	5.583	5.604	VV	780	8202	0.44%	0.008%
105	5.630	5.604	5.640	VV	1108	20603	1.12%	0.021%
106	5.644	5.640	5.677	VV	1086	12735	0.69%	0.013%
107	5.696	5.677	5.718	VV	908	11116	0.60%	0.011%
108	5.752	5.718	5.768	VV	1811	26843	1.46%	0.028%
109	5.785	5.768	5.817	VV	6684	71664	3.89%	0.074%
110	5.833	5.817	5.857	VV	1204	15105	0.82%	0.016%
111	5.875	5.857	5.896	VV	604	9781	0.53%	0.010%
112	5.916	5.896	5.931	VV	647	9094	0.49%	0.009%
113	5.945	5.931	5.971	VV	569	9797	0.53%	0.010%
114	5.985	5.971	5.998	VV	926	10626	0.58%	0.011%
115	6.022	5.998	6.033	VV	870	14545	0.79%	0.015%
116	6.049	6.033	6.061	VV	2328	26549	1.44%	0.027%
117	6.070	6.061	6.090	VV	2098	23961	1.30%	0.025%
118	6.104	6.090	6.135	VV	1275	21117	1.15%	0.022%
119	6.143	6.135	6.158	VV	436	4477	0.24%	0.005%
120	6.178	6.158	6.182	VV	1252	13986	0.76%	0.014%
121	6.187	6.182	6.212	VV	1337	16179	0.88%	0.017%
122	6.234	6.212	6.258	VV	898	18622	1.01%	0.019%
123	6.280	6.258	6.288	VV	1215	15576	0.84%	0.016%
124	6.294	6.288	6.312	VV	1254	13281	0.72%	0.014%
125	6.327	6.312	6.331	VV	1013	8677	0.47%	0.009%
126	6.346	6.331	6.357	VV	1614	19502	1.06%	0.020%
127	6.367	6.357	6.390	VV	1422	21465	1.16%	0.022%
128	6.396	6.390	6.418	VV	737	9940	0.54%	0.010%
129	6.422	6.418	6.443	VV	512	5811	0.32%	0.006%
130	6.493	6.443	6.511	VV	4833	76969	4.18%	0.080%
131	6.526	6.511	6.546	VV	3219	42764	2.32%	0.044%
132	6.559	6.546	6.576	VV	808	10178	0.55%	0.011%
133	6.622	6.576	6.652	VV	1876	47919	2.60%	0.050%
134	6.659	6.652	6.680	VV	510	7309	0.40%	0.008%
135	6.683	6.680	6.687	VV	361	1467	0.08%	0.002%
136	6.708	6.687	6.763	VV	1059	27413	1.49%	0.028%
137	6.777	6.763	6.812	VV	671	14343	0.78%	0.015%
138	6.816	6.812	6.839	VV	394	4553	0.25%	0.005%
139	6.862	6.839	6.892	VV	3026	37625	2.04%	0.039%
140	6.907	6.892	6.931	VV	683	11841	0.64%	0.012%
141	6.938	6.931	6.963	VV	511	6811	0.37%	0.007%

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					retention			
142	6.966	6.963	6.972	VV	263	1417	0.08%	0.001%
143	6.991	6.972	7.006	VV	433	5945		
144	7.021	7.006	7.027	VV	556	4669		
145	7.043	7.027	7.059	VV	784	10029		
146	7.073	7.059	7.090	VV	1309	14064		
147	7.106	7.090	7.155	VV	344	8222		
148	7.197	7.155	7.215	PV	871	11544	0.63%	0.012%
149	7.241	7.215	7.259	VV	394	6946	0.38%	0.007%
150	7.282	7.259	7.312	VV	901	16219	0.88%	0.017%
151	7.318	7.312	7.343	VV	592	6909	0.37%	0.007%
152	7.365	7.343	7.373	VV	988	11543	0.63%	0.012%
153	7.386	7.373	7.398	VV	1270	15129	0.82%	0.016%
154	7.427	7.398	7.450	VV	2378	39894	2.16%	0.041%
155	7.469	7.450	7.486	VV	1363	19200	1.04%	0.020%
156	7.500	7.486	7.533	VV	1399	22306	1.21%	0.023%
157	7.565	7.533	7.578	VV	1802	21801	1.18%	0.023%
158	7.585	7.578	7.601	VV	1114	11045	0.60%	0.011%
159	7.610	7.601	7.616	VV	621	4548	0.25%	0.005%
160	7.632	7.616	7.656	VV	1416	16780	0.91%	0.017%
161	7.692	7.656	7.703	VV	492	9154	0.50%	0.009%
162	7.718	7.703	7.729	VV	558	7211	0.39%	0.007%
163	7.739	7.729	7.752	VV	719	7339	0.40%	0.008%
164	7.763	7.752	7.778	VV	627	7074	0.38%	0.007%
165	7.795	7.778	7.815	VV	805	13106	0.71%	0.014%
166	7.826	7.815	7.853	VV	611	8280	0.45%	0.009%
167	7.863	7.853	7.888	VV	233	2979	0.16%	0.003%
168	7.916	7.888	7.940	VV	321	6340	0.34%	0.007%
169	7.959	7.940	7.964	PV	490	3864	0.21%	0.004%
170	7.983	7.964	8.007	VV	1248	15744	0.85%	0.016%
171	8.028	8.007	8.050	VV	469	5961	0.32%	0.006%
172	8.065	8.050	8.088	VV	652	6955	0.38%	0.007%
173	8.112	8.088	8.117	VV	1105	9944	0.54%	0.010%
174	8.141	8.117	8.174	VV	5727	93751	5.09%	0.097%
175	8.179	8.174	8.193	VV	1274	12451	0.68%	0.013%
176	8.222	8.193	8.256	VV	2088	38870	2.11%	0.040%
177	8.274	8.256	8.290	VV	638	9443	0.51%	0.010%
178	8.317	8.290	8.333	VV	2137	32986	1.79%	0.034%
179	8.352	8.333	8.375	VV	2037	34315	1.86%	0.035%
180	8.400	8.375	8.415	VV	1479	22630	1.23%	0.023%
181	8.439	8.415	8.453	VV	1529	28261	1.53%	0.029%
182	8.466	8.453	8.480	VV	2335	30247	1.64%	0.031%
183	8.485	8.480	8.506	VV	1585	20099	1.09%	0.021%
184	8.511	8.506	8.527	VV	1052	10589	0.57%	0.011%
185	8.547	8.527	8.566	VV	3740	49895	2.71%	0.052%
186	8.575	8.566	8.591	VV	1637	17970	0.97%	0.019%
187	8.625	8.591	8.655	VV	2609	52388	2.84%	0.054%
188	8.710	8.655	8.725	VV	1230	31603	1.71%	0.033%
189	8.727	8.725	8.731	VV	1012	3271	0.18%	0.003%
190	8.752	8.731	8.783	VV	1434	25914	1.41%	0.027%
191	8.820	8.783	8.846	VV	1944	31853	1.73%	0.033%
192	8.848	8.846	8.867	VV	330	3120	0.17%	0.003%
193	8.894	8.867	8.915	VV	459	7539	0.41%	0.008%
194	8.951	8.915	8.969	VV	881	12743	0.69%	0.013%

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195	8.991	8.969	9.019	VV	756	12893	0.70%	0.013%
196	9.036	9.019	9.061	VV	831	13758		
197	9.079	9.061	9.088	VV	1128	12493		
198	9.093	9.088	9.107	VV	924	9974		
199	9.114	9.107	9.130	VV	898	10634		
200	9.148	9.130	9.157	VV	828	11898		
201	9.184	9.157	9.204	VV	1558	26835	1.46%	0.028%
202	9.223	9.204	9.240	VV	1417	17275	0.94%	0.018%
203	9.273	9.240	9.293	VV	1179	20180	1.09%	0.021%
204	9.315	9.293	9.332	VV	1009	16148	0.88%	0.017%
205	9.350	9.332	9.362	VV	1784	25554	1.39%	0.026%
206	9.369	9.362	9.389	VV	1509	16740	0.91%	0.017%
207	9.402	9.389	9.427	VV	584	9482	0.51%	0.010%
208	9.449	9.427	9.467	VV	2645	38827	2.11%	0.040%
209	9.483	9.467	9.530	VV	2237	41036	2.23%	0.042%
210	9.547	9.530	9.579	VV	1262	15709	0.85%	0.016%
211	9.601	9.579	9.618	PV	1159	12573	0.68%	0.013%
212	9.634	9.618	9.658	VV	1265	14958	0.81%	0.015%
213	9.663	9.658	9.678	VV	186	1929	0.10%	0.002%
214	9.722	9.678	9.729	VV	1345	17146	0.93%	0.018%
215	9.737	9.729	9.760	VV	1382	14973	0.81%	0.015%
216	9.800	9.760	9.838	VV	2347	57750	3.13%	0.060%
217	9.848	9.838	9.867	VV	865	9809	0.53%	0.010%
218	9.899	9.867	9.912	VV	1187	19950	1.08%	0.021%
219	9.922	9.912	9.940	VV	1116	12002	0.65%	0.012%
220	9.948	9.940	9.952	VV	398	2063	0.11%	0.002%
221	10.001	9.952	10.018	VV	1418	33003	1.79%	0.034%
222	10.032	10.018	10.049	VV	986	14265	0.77%	0.015%
223	10.068	10.049	10.074	VV	1107	12994	0.70%	0.013%
224	10.101	10.074	10.147	VV	118226	1246789	67.64%	1.290%
225	10.165	10.147	10.182	VV	1239	21865	1.19%	0.023%
226	10.194	10.182	10.212	VV	995	15257	0.83%	0.016%
227	10.232	10.212	10.248	VV	1957	29902	1.62%	0.031%
228	10.262	10.248	10.303	VV	1557	31857	1.73%	0.033%
229	10.320	10.303	10.335	VV	944	12979	0.70%	0.013%
230	10.341	10.335	10.367	VV	709	8212	0.45%	0.008%
231	10.418	10.367	10.452	VV	3204	66838	3.63%	0.069%
232	10.484	10.452	10.516	VV	1618	31068	1.69%	0.032%
233	10.533	10.516	10.551	VV	566	9190	0.50%	0.010%
234	10.575	10.551	10.606	VV	10187	123942	6.72%	0.128%
235	10.625	10.606	10.641	VV	843	15097	0.82%	0.016%
236	10.680	10.641	10.697	VV	1898	39683	2.15%	0.041%
237	10.705	10.697	10.737	VV	1610	23709	1.29%	0.025%
238	10.750	10.737	10.766	VV	1153	15161	0.82%	0.016%
239	10.774	10.766	10.782	VV	714	6411	0.35%	0.007%
240	10.794	10.782	10.804	VV	647	7303	0.40%	0.008%
241	10.819	10.804	10.835	VV	991	13589	0.74%	0.014%
242	10.852	10.835	10.863	VV	928	10086	0.55%	0.010%
243	10.880	10.863	10.908	VV	773	16891	0.92%	0.017%
244	10.928	10.908	10.954	VV	1952	28902	1.57%	0.030%
245	10.974	10.954	11.010	VV	1451	27940	1.52%	0.029%
246	11.035	11.010	11.063	VV	1042	23929	1.30%	0.025%

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247	11.073	11.063	11.091	VV	810	9258	0.50%	0.010%
248	11.106	11.091	11.110	VV	447	4658		
249	11.128	11.110	11.163	VV	895	14794		
250	11.168	11.163	11.175	VV	128	679		
251	11.198	11.175	11.207	VV	762	9661		
252	11.229	11.207	11.243	VV	3595	41306		
253	11.255	11.243	11.281	VV	2035	31319	1.70%	0.032%
254	11.285	11.281	11.291	VV	888	5257	0.29%	0.005%
255	11.304	11.291	11.362	VV	1089	21742	1.18%	0.022%
256	11.379	11.362	11.389	VV	395	5445	0.30%	0.006%
257	11.409	11.389	11.425	VV	406	6632	0.36%	0.007%
258	11.430	11.425	11.460	VV	288	3360	0.18%	0.003%
259	11.481	11.460	11.501	VV	837	11635	0.63%	0.012%
260	11.534	11.501	11.566	VV	816	17081	0.93%	0.018%
261	11.596	11.566	11.605	PV	481	6624	0.36%	0.007%
262	11.618	11.605	11.634	VV	574	8598	0.47%	0.009%
263	11.648	11.634	11.662	VV	990	11577	0.63%	0.012%
264	11.679	11.662	11.692	VV	1311	15254	0.83%	0.016%
265	11.707	11.692	11.733	VV	1072	17749	0.96%	0.018%
266	11.756	11.733	11.792	VV	2038	38788	2.10%	0.040%
267	11.796	11.792	11.809	VV	389	2550	0.14%	0.003%
268	11.833	11.809	11.856	VV	522	9338	0.51%	0.010%
269	11.879	11.856	11.903	VV	1240	19198	1.04%	0.020%
270	11.926	11.903	11.934	PV	910	10492	0.57%	0.011%
271	11.944	11.934	11.973	VV	1376	22102	1.20%	0.023%
272	11.992	11.973	12.009	VV	781	12995	0.70%	0.013%
273	12.033	12.009	12.051	VV	1673	25517	1.38%	0.026%
274	12.067	12.051	12.085	VV	1733	20855	1.13%	0.022%
275	12.103	12.085	12.135	VV	1001	21682	1.18%	0.022%
276	12.155	12.135	12.172	VV	3880	47191	2.56%	0.049%
277	12.184	12.172	12.202	VV	1608	21773	1.18%	0.023%
278	12.215	12.202	12.247	VV	1232	17723	0.96%	0.018%
279	12.252	12.247	12.263	VV	170	1299	0.07%	0.001%
280	12.292	12.263	12.315	VV	688	10458	0.57%	0.011%
281	12.349	12.315	12.367	PV	1374	27304	1.48%	0.028%
282	12.391	12.367	12.423	VV	1175	29353	1.59%	0.030%
283	12.447	12.423	12.487	VV	1800	42749	2.32%	0.044%
284	12.515	12.487	12.531	VV	1554	26651	1.45%	0.028%
285	12.538	12.531	12.547	VV	1063	9047	0.49%	0.009%
286	12.572	12.547	12.580	VV	2149	29681	1.61%	0.031%
287	12.605	12.580	12.668	VV	90676	1197307	64.95%	1.239%
288	12.683	12.668	12.699	VV	2663	36711	1.99%	0.038%
289	12.715	12.699	12.757	VV	2501	54834	2.97%	0.057%
290	12.787	12.757	12.807	VV	1082	25911	1.41%	0.027%
291	12.827	12.807	12.862	VV	1246	25813	1.40%	0.027%
292	12.866	12.862	12.870	VV	286	1201	0.07%	0.001%
293	12.887	12.870	12.897	VV	736	8986	0.49%	0.009%
294	12.937	12.897	12.960	VV	2730	56454	3.06%	0.058%
295	12.995	12.960	13.027	VV	2468	53600	2.91%	0.055%
296	13.054	13.027	13.108	PV	7916	139493	7.57%	0.144%
297	13.129	13.108	13.145	VV	442	6976	0.38%	0.007%
298	13.156	13.145	13.169	VV	516	5561	0.30%	0.006%
299	13.184	13.169	13.202	VV	764	9350	0.51%	0.010%

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300	13.245	13.202	13.275	VV	1515	29990	1.63%	0.031%
301	13.297	13.275	13.323	VV	971	19446		
302	13.352	13.323	13.383	VV	6539	92170		
303	13.403	13.383	13.428	VV	1916	33787		
304	13.445	13.428	13.456	VV	1278	15598		
305	13.466	13.456	13.472	VV	1092	9332		
306	13.483	13.472	13.498	VV	1132	13384	0.73%	0.014%
307	13.542	13.498	13.578	VV	2096	47412	2.57%	0.049%
308	13.622	13.578	13.645	PV	3103	70909	3.85%	0.073%
309	13.683	13.645	13.706	VV	4392	108095	5.86%	0.112%
310	13.716	13.706	13.743	VV	2499	46311	2.51%	0.048%
311	13.750	13.743	13.764	VV	1483	15550	0.84%	0.016%
312	13.780	13.764	13.804	VV	1977	33068	1.79%	0.034%
313	13.811	13.804	13.822	VV	1307	12192	0.66%	0.013%
314	13.838	13.822	13.900	VV	10306	174168	9.45%	0.180%
315	13.908	13.900	13.926	VV	1307	14831	0.80%	0.015%
316	13.944	13.926	13.971	VV	1774	27379	1.49%	0.028%
317	13.989	13.971	13.994	VV	956	8917	0.48%	0.009%
318	14.008	13.994	14.030	VV	1283	20336	1.10%	0.021%
319	14.052	14.030	14.073	VV	1230	20284	1.10%	0.021%
320	14.077	14.073	14.082	VV	526	2566	0.14%	0.003%
321	14.120	14.082	14.133	VV	1683	29906	1.62%	0.031%
322	14.145	14.133	14.167	VV	1532	23223	1.26%	0.024%
323	14.217	14.167	14.242	VV	3333	90008	4.88%	0.093%
324	14.257	14.242	14.281	VV	1218	18364	1.00%	0.019%
325	14.300	14.281	14.310	VV	604	6173	0.33%	0.006%
326	14.327	14.310	14.336	VV	1073	12257	0.66%	0.013%
327	14.346	14.336	14.370	VV	933	11706	0.64%	0.012%
328	14.427	14.370	14.457	PV	1387	39942	2.17%	0.041%
329	14.471	14.457	14.477	VV	906	7787	0.42%	0.008%
330	14.480	14.477	14.493	VV	864	6460	0.35%	0.007%
331	14.499	14.493	14.506	VV	556	3463	0.19%	0.004%
332	14.509	14.506	14.520	VV	436	2549	0.14%	0.003%
333	14.529	14.520	14.537	VV	365	3117	0.17%	0.003%
334	14.592	14.537	14.643	VV	4248	110759	6.01%	0.115%
335	14.648	14.643	14.653	VV	923	4939	0.27%	0.005%
336	14.676	14.653	14.692	VV	2347	39210	2.13%	0.041%
337	14.713	14.692	14.732	VV	2006	33469	1.82%	0.035%
338	14.762	14.732	14.777	VV	2606	36292	1.97%	0.038%
339	14.797	14.777	14.804	VV	1830	28060	1.52%	0.029%
340	14.827	14.804	14.846	VV	3297	60437	3.28%	0.063%
341	14.862	14.846	14.884	VV	3120	48457	2.63%	0.050%
342	14.899	14.884	14.911	VV	1158	15822	0.86%	0.016%
343	14.924	14.911	14.949	VV	2178	26077	1.41%	0.027%
344	14.981	14.949	15.002	PV	1996	36337	1.97%	0.038%
345	15.020	15.002	15.034	VV	2868	35877	1.95%	0.037%
346	15.045	15.034	15.065	VV	2008	26241	1.42%	0.027%
347	15.097	15.065	15.129	VV	77859	1046584	56.78%	1.083%
348	15.157	15.129	15.166	VV	1419	25387	1.38%	0.026%
349	15.171	15.166	15.176	VV	839	4070	0.22%	0.004%
350	15.192	15.176	15.197	VV	1467	13889	0.75%	0.014%
351	15.201	15.197	15.208	VV	1578	9724	0.53%	0.010%

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352	15.212	15.208	15.218	VV	1505	8298
353	15.235	15.218	15.257	VV	4617	60139
354	15.276	15.257	15.292	VV	5362	63490
355	15.300	15.292	15.315	VV	2329	22135
356	15.341	15.315	15.361	VV	2485	39154
357	15.374	15.361	15.385	VV	2177	24733
358	15.390	15.385	15.409	VV	1799	18995
359	15.444	15.409	15.470	VV	2369	39267
360	15.478	15.470	15.485	VV	1023	6783
361	15.490	15.485	15.512	VV	873	7073
362	15.547	15.512	15.552	PV	1741	19903
363	15.557	15.552	15.572	VV	1780	15268
364	15.577	15.572	15.581	VV	917	3868
365	15.605	15.581	15.635	VV	6738	92847
366	15.638	15.635	15.651	VV	610	4683
367	15.688	15.651	15.746	VV	49359	826635
368	15.756	15.746	15.778	VV	1604	22385
369	15.794	15.778	15.798	VV	1233	11968
370	15.828	15.798	15.852	VV	3546	72267
371	15.898	15.852	15.928	VV	11591	219223
372	15.954	15.928	15.972	VV	2675	45882
373	15.979	15.972	15.992	VV	1136	9089
374	16.014	15.992	16.023	PV	1662	17845
375	16.050	16.023	16.055	VV	1859	30896
376	16.082	16.055	16.102	VV	2816	55420
377	16.115	16.102	16.123	VV	1569	16778
378	16.127	16.123	16.132	VV	1235	5973
379	16.151	16.132	16.166	VV	1909	25374
380	16.173	16.166	16.178	VV	1653	10609
381	16.211	16.178	16.230	VV	4686	92270
382	16.246	16.230	16.260	VV	3455	49002
383	16.274	16.260	16.286	VV	3044	38437
384	16.309	16.286	16.314	VV	2928	42368
385	16.329	16.314	16.345	VV	4813	70819
386	16.361	16.345	16.375	VV	4364	67916
387	16.384	16.375	16.415	VV	4641	82226
388	16.419	16.415	16.426	VV	2379	13448
389	16.434	16.426	16.455	VV	2181	31858
390	16.462	16.455	16.471	VV	1922	14776
391	16.522	16.471	16.540	VV	5050	124316
392	16.559	16.540	16.566	VV	3006	40468
393	16.583	16.566	16.597	VV	3339	54313
394	16.614	16.597	16.637	VV	6102	116598
395	16.641	16.637	16.647	VV	4277	24032
396	16.650	16.647	16.656	VV	4005	21246
397	16.663	16.656	16.667	VV	4199	28022
398	16.672	16.667	16.676	VV	4143	20162
399	16.707	16.676	16.749	VV	20943	436859
400	16.806	16.749	16.841	VV	10221	338847
401	16.855	16.841	16.867	VV	4797	62156
402	16.888	16.867	16.922	VV	9390	231088
403	16.945	16.922	16.971	VV	7229	192212
404	16.982	16.971	16.999	VV	7544	111478

Instrument :

FID_F

ClientSampleId :

WASTE

0.45% 0.009%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

1.03% 0.020%

2.13% 0.041%

0.37% 0.007%

0.38% 0.007%

1.08% 0.021%

0.83% 0.016%

0.21% 0.004%

5.04% 0.096%

0.25% 0.005%

44.84% 0.855%

1.21% 0.023%

0.65% 0.012%

3.92% 0.075%

11.89% 0.227%

2.49% 0.047%

0.49% 0.009%

0.97% 0.018%

1.68% 0.032%

3.01% 0.057%

0.91% 0.017%

0.32% 0.006%

1.38% 0.026%

0.58% 0.011%

5.01% 0.095%

2.66% 0.051%

2.09% 0.040%

2.30% 0.044%

3.84% 0.073%

3.68% 0.070%

4.46% 0.085%

0.73% 0.014%

1.73% 0.033%

0.80% 0.015%

6.74% 0.129%

2.20% 0.042%

2.95% 0.056%

6.33% 0.121%

1.30% 0.025%

1.15% 0.022%

1.52% 0.029%

1.09% 0.021%

23.70% 0.452%

18.38% 0.351%

3.37% 0.064%

12.54% 0.239%

10.43% 0.199%

6.05% 0.115%

Instrument :

FID_F

ClientSampleId :

WASTE

rteres

405	17.025	16.999	17.047	VV	7911	191897	10.41%	0.198%
406	17.056	17.047	17.062	VV	5917	48646		
407	17.089	17.062	17.102	VV	6892	147938		
408	17.122	17.102	17.158	VV	9044	235152	12.08%	0.230%
409	17.184	17.158	17.210	VV	10151	241787	13.88%	0.265%
410	17.215	17.210	17.219	VV	5942	30292	2.78%	0.053%
411	17.250	17.219	17.254	VV	8071	141945	7.70%	0.147%
412	17.278	17.254	17.296	VV	11948	255881	13.88%	0.265%
413	17.313	17.296	17.327	VV	14300	222732	12.08%	0.230%
414	17.353	17.327	17.390	VV	14972	410238	22.26%	0.424%
415	17.397	17.390	17.402	VV	7135	51313	2.78%	0.053%
416	17.409	17.402	17.413	VV	7702	45713	2.48%	0.047%
417	17.418	17.413	17.422	VV	7385	38118	2.07%	0.039%
418	17.429	17.422	17.433	VV	7967	46341	2.51%	0.048%
419	17.471	17.433	17.476	VV	10312	220746	11.98%	0.228%
420	17.481	17.476	17.487	VV	9781	60619	3.29%	0.063%
421	17.504	17.487	17.508	VV	10957	130704	7.09%	0.135%
422	17.514	17.508	17.519	VV	11187	71109	3.86%	0.074%
423	17.529	17.519	17.536	VV	10830	104813	5.69%	0.108%
424	17.540	17.536	17.549	VV	9755	71501	3.88%	0.074%
425	17.554	17.549	17.565	VV	8873	78530	4.26%	0.081%
426	17.575	17.565	17.581	VV	9678	85231	4.62%	0.088%
427	17.602	17.581	17.623	VV	12331	266338	14.45%	0.276%
428	17.652	17.623	17.695	VV	25821	707035	38.36%	0.731%
429	17.733	17.695	17.758	VV	18951	521887	28.31%	0.540%
430	17.774	17.758	17.791	VV	13269	232445	12.61%	0.240%
431	17.814	17.791	17.829	VV	14025	280602	15.22%	0.290%
432	17.854	17.829	17.879	VV	14225	368061	19.97%	0.381%
433	17.914	17.879	17.932	VV	14694	384474	20.86%	0.398%
434	17.947	17.932	17.961	VV	12881	199184	10.81%	0.206%
435	17.974	17.961	17.986	VV	11734	160743	8.72%	0.166%
436	18.005	17.986	18.014	VV	12116	187279	10.16%	0.194%
437	18.018	18.014	18.025	VV	12077	77671	4.21%	0.080%
438	18.030	18.025	18.037	VV	11516	74970	4.07%	0.078%
439	18.041	18.037	18.045	VV	11691	53926	2.93%	0.056%
440	18.059	18.045	18.064	VV	12505	136549	7.41%	0.141%
441	18.074	18.064	18.078	VV	15077	118649	6.44%	0.123%
442	18.091	18.078	18.110	VV	16774	289302	15.69%	0.299%
443	18.132	18.110	18.137	VV	16276	248589	13.49%	0.257%
444	18.172	18.137	18.206	VV	22423	713848	38.73%	0.738%
445	18.212	18.206	18.217	VV	13356	86957	4.72%	0.090%
446	18.222	18.217	18.231	VV	13334	103586	5.62%	0.107%
447	18.259	18.231	18.285	VV	19520	490836	26.63%	0.508%
448	18.324	18.285	18.378	VV	24542	1014854	55.06%	1.050%
449	18.384	18.378	18.397	VV	16414	184675	10.02%	0.191%
450	18.407	18.397	18.428	VV	17056	275890	14.97%	0.285%
451	18.437	18.428	18.444	VV	14907	140498	7.62%	0.145%
452	18.465	18.444	18.471	VV	15778	246657	13.38%	0.255%
453	18.500	18.471	18.510	VV	21018	430455	23.35%	0.445%
454	18.538	18.510	18.575	VV	45489	1155838	62.70%	1.196%
455	18.593	18.575	18.619	VV	27861	584604	31.71%	0.605%
456	18.641	18.619	18.652	VV	17386	318825	17.30%	0.330%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

						Instrument : FID_F ClientSampleId : WASTE		
rteres						Manual IntegrationsAPPROVED		
457	18.693	18.652	18.710	VV	27548	724985	39.33%	0.750%
458	18.719	18.710	18.746	VV	20355	398923	21.50%	0.516%
459	18.752	18.746	18.756	VV	17596	104713	5.82%	0.111%
460	18.763	18.756	18.783	VV	18700	282048	18.89%	0.360%
461	18.812	18.783	18.835	VV	20569	581117	31.77%	0.941%
462	18.844	18.835	18.848	VV	18413	136285	12.22%	0.233%
463	18.855	18.848	18.869	VV	19114	225277	12.22%	0.233%
464	18.902	18.869	18.911	VV	20533	499122	27.08%	0.516%
465	18.916	18.911	18.921	VV	19435	107190	5.82%	0.111%
466	18.925	18.921	18.930	VV	19380	99386	5.39%	0.103%
467	18.955	18.930	18.964	VV	21513	413248	22.42%	0.427%
468	19.005	18.964	19.032	VV	29042	973049	52.79%	1.007%
469	19.041	19.032	19.048	VV	21065	198369	10.76%	0.205%
470	19.052	19.048	19.058	VV	19866	113450	6.15%	0.117%
471	19.074	19.058	19.087	VV	21885	348269	18.89%	0.360%
472	19.116	19.087	19.142	VV	32919	909777	49.36%	0.941%
473	19.168	19.142	19.198	VV	28238	828509	44.95%	0.857%
474	19.215	19.198	19.235	VV	24099	494105	26.80%	0.511%
475	19.253	19.235	19.258	VV	24136	319537	17.33%	0.331%
476	19.262	19.258	19.266	VV	23966	107972	5.86%	0.112%
477	19.299	19.266	19.326	VV	28502	953882	51.75%	0.987%
478	19.368	19.326	19.399	VV	50742	1532120	83.12%	1.585%
479	19.406	19.399	19.411	VV	31878	229205	12.43%	0.237%
480	19.416	19.411	19.432	VV	31765	378919	20.56%	0.392%
481	19.436	19.432	19.441	VV	28560	159092	8.63%	0.165%
482	19.449	19.441	19.471	VV	28616	492781	26.73%	0.510%
483	19.486	19.471	19.491	VV	27603	323445	17.55%	0.335%
484	19.513	19.491	19.533	VV	30345	719875	39.05%	0.745%
485	19.539	19.533	19.565	VV	29657	541652	29.38%	0.560%
486	19.599	19.565	19.616	VV	29725	859518	46.63%	0.889%
487	19.621	19.616	19.625	VV	28907	155368	8.43%	0.161%
488	19.654	19.625	19.666	VV	31493	727306	39.46%	0.752%
489	19.685	19.666	19.689	VV	29860	403668	21.90%	0.418%
490	19.709	19.689	19.730	VV	30564	728133	39.50%	0.753%
491	19.734	19.730	19.743	VV	29665	232066	12.59%	0.240%
492	19.757	19.743	19.762	VV	29622	319649	17.34%	0.331%
493	19.767	19.762	19.771	VV	30261	163355	8.86%	0.169%
494	19.787	19.771	19.796	VV	31989	466990	25.33%	0.483%
495	19.803	19.796	19.807	VV	33354	213889	11.60%	0.221%
496	19.829	19.807	19.841	VV	35122	666249	36.14%	0.689%
497	19.855	19.841	19.872	VV	36730	637740	34.60%	0.660%
498	19.876	19.872	19.889	VV	33782	347239	18.84%	0.359%
499	19.908	19.889	19.942	VV	35160	1056059	57.29%	1.092%
500	19.945	19.942	19.951	VV	32327	173650	9.42%	0.180%
501	19.968	19.951	19.986	VV	36840	744628	40.40%	0.770%
502	19.992	19.986	19.997	VV	34616	228620	12.40%	0.236%
503	20.003	19.997	20.012	VV	35693	303960	16.49%	0.314%
504	20.031	20.012	20.038	VV	35959	547857	29.72%	0.567%
505	20.047	20.038	20.062	VV	35976	505428	27.42%	0.523%
506	20.075	20.062	20.084	VV	36898	457147	24.80%	0.473%
507	20.088	20.084	20.094	VV	35549	218346	11.85%	0.226%
508	20.101	20.094	20.117	VV	36094	480015	26.04%	0.497%
509	20.161	20.117	20.190	VV	49475	1843331	100.00%	1.907%

Manual IntegrationsAPPROVED

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510	20.206	20.190	20.211	VV	41952	513671	27.87%	0.531%	
511	20.223	20.211	20.255	VV	41891	1048541	56.00%	0.531%	
512	20.270	20.255	20.277	VV	39470	496022	26.00%	0.531%	
513	20.311	20.277	20.326	VV	41997	1188762	64.00%	0.531%	
514	20.345	20.326	20.362	VV	45267	917593	49.00%	0.531%	
515	20.368	20.362	20.380	VV	43243	444022	24.00%	0.531%	
516	20.401	20.380	20.419	VV	46357	1031528	55.96%	1.067%	
517	20.429	20.419	20.434	VV	43683	398314	21.61%	0.412%	
518	20.439	20.434	20.444	VV	43902	256565	13.92%	0.265%	
519	20.453	20.444	20.465	VV	45092	549681	29.82%	0.569%	
520	20.482	20.465	20.494	VV	46132	787363	42.71%	0.814%	
521	20.501	20.494	20.507	VV	44878	326318	17.70%	0.338%	
522	20.509	20.507	20.522	VV	44961	401031	21.76%	0.415%	
523	20.526	20.522	20.550	VV	45399	764223	41.46%	0.791%	
524	20.555	20.550	20.562	VV	46144	338542	18.37%	0.350%	
525	20.568	20.562	20.575	VV	46259	337615	18.32%	0.349%	
526	20.587	20.575	20.592	VV	47466	484932	26.31%	0.502%	
527	20.616	20.592	20.627	VV	51262	1025951	55.66%	1.061%	
528	20.632	20.627	20.636	VV	48390	253160	13.73%	0.262%	
529	20.654	20.636	20.672	VV	50021	1031996	55.99%	1.068%	
530	20.686	20.672	20.691	VV	51814	569299	30.88%	0.589%	
531	20.698	20.691	20.724	VV	51208	999604	54.23%	1.034%	
532	20.731	20.724	20.740	VV	49874	465146	25.23%	0.481%	
533	20.747	20.740	20.772	VV	48569	930827	50.50%	0.963%	
534	20.779	20.772	20.789	VV	47784	468309	25.41%	0.484%	
535	20.803	20.789	20.808	VV	46192	519989	28.21%	0.538%	
536	20.814	20.808	20.826	VV	47147	501129	27.19%	0.518%	
537	20.850	20.826	20.855	VV	46211	782252	42.44%	0.809%	
538	20.860	20.855	20.866	VV	46067	304954	16.54%	0.315%	
539	20.872	20.866	20.881	VV	47418	407835	22.12%	0.422%	
540	20.888	20.881	20.907	VV	47678	752679	40.83%	0.779%	
541	20.911	20.907	20.926	VV	45837	500622	27.16%	0.518%	
542	20.932	20.926	20.945	VV	46241	516419	28.02%	0.534%	
543	20.953	20.945	20.979	VV	45825	903124	48.99%	0.934%	
544	20.996	20.979	21.011	VV	43511	816635	44.30%	0.845%	
545	21.021	21.011	21.040	VV	43879	729987	39.60%	0.755%	
546	21.046	21.040	21.074	VV	41987	819573	44.46%	0.848%	
547	21.081	21.074	21.089	VV	40086	354976	19.26%	0.367%	
548	21.100	21.089	21.106	VV	39533	390126	21.16%	0.404%	
549	21.113	21.106	21.124	VV	40822	423531	22.98%	0.438%	
550	21.151	21.124	21.160	VV	40977	849813	46.10%	0.879%	
551	21.167	21.160	21.192	VV	38623	711739	38.61%	0.736%	
552	21.196	21.192	21.221	VV	38578	637986	34.61%	0.660%	
553	21.226	21.221	21.233	VV	35103	257331	13.96%	0.266%	
554	21.255	21.233	21.270	VV	36073	761711	41.32%	0.788%	
555	21.276	21.270	21.286	VV	33455	326285	17.70%	0.338%	
556	21.301	21.286	21.310	VV	33413	461470	25.03%	0.477%	
557	21.314	21.310	21.322	VV	32145	237618	12.89%	0.246%	
558	21.327	21.322	21.333	VV	31434	200713	10.89%	0.208%	
559	21.340	21.333	21.352	VV	30955	330470	17.93%	0.342%	
560	21.357	21.352	21.365	VV	29878	242949	13.18%	0.251%	
561	21.373	21.365	21.385	VV	30366	343205	18.62%	0.355%	

Instrument :

FID_F

ClientSampleId :

WASTE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

Client's Sampled Data						WASTE		Manual Integration	
562	21.390	21.385	21.399	VV	28916	238038	12.91%	0.246%	
563	21.406	21.399	21.419	VV	28666	334114	18.49%	0.353%	
564	21.425	21.419	21.445	VV	27931	417130	22.78%	0.334%	
565	21.450	21.445	21.456	VV	27697	172192	9.99%	0.190%	
566	21.465	21.456	21.472	VV	27496	258312	14.61%	0.279%	
567	21.477	21.472	21.484	VV	28085	197785	10.87%	0.226%	
568	21.489	21.484	21.500	VV	26681	251826	13.66%	0.260%	
569	21.509	21.500	21.525	VV	26565	385954	20.94%	0.399%	
570	21.538	21.525	21.567	VV	26164	633997	34.39%	0.656%	
571	21.578	21.567	21.586	VV	24543	269312	14.61%	0.279%	
572	21.596	21.586	21.611	VV	24682	340918	18.49%	0.353%	
573	21.619	21.611	21.636	VV	22783	323320	17.54%	0.334%	
574	21.644	21.636	21.662	VV	22057	323480	17.55%	0.335%	
575	21.667	21.662	21.678	VV	20505	184155	9.99%	0.190%	
576	21.682	21.678	21.687	VV	18917	101519	5.51%	0.105%	
577	21.691	21.687	21.706	VV	19299	218868	11.87%	0.226%	
578	21.711	21.706	21.720	VV	18608	144845	7.86%	0.150%	
579	21.731	21.720	21.736	VV	18372	169231	9.18%	0.175%	
580	21.743	21.736	21.747	VV	19583	128604	6.98%	0.133%	
581	21.758	21.747	21.769	VV	19170	241026	13.08%	0.249%	
582	21.776	21.769	21.790	VV	19200	227298	12.33%	0.235%	
583	21.800	21.790	21.816	VV	17756	254564	13.81%	0.263%	
584	21.826	21.816	21.833	VV	16624	170244	9.24%	0.176%	
585	21.839	21.833	21.852	VV	16168	185198	10.05%	0.192%	
586	21.860	21.852	21.865	VV	15840	118727	6.44%	0.123%	
587	21.872	21.865	21.893	VV	15521	247408	13.42%	0.256%	
588	21.896	21.893	21.903	VV	14043	82700	4.49%	0.086%	
589	21.908	21.903	21.914	VV	14042	88915	4.82%	0.092%	
590	21.919	21.914	21.930	VV	14016	126315	6.85%	0.131%	
591	21.937	21.930	21.947	VV	13092	128094	6.95%	0.133%	
592	21.952	21.947	21.956	VV	13138	66584	3.61%	0.069%	
593	21.964	21.956	21.983	VV	13442	207321	11.25%	0.214%	
594	21.991	21.983	21.996	VV	12735	91015	4.94%	0.094%	
595	22.009	21.996	22.023	VV	12404	190564	10.34%	0.197%	
596	22.028	22.023	22.040	VV	11027	100786	5.47%	0.104%	
597	22.043	22.040	22.050	VV	10548	59599	3.23%	0.062%	
598	22.057	22.050	22.068	VV	9095	91151	4.94%	0.094%	
599	22.075	22.068	22.079	VV	8430	50230	2.72%	0.052%	
600	22.083	22.079	22.094	VV	8118	67795	3.68%	0.070%	
601	22.108	22.094	22.132	VV	8140	166948	9.06%	0.173%	
602	22.138	22.132	22.144	VV	6522	38682	2.10%	0.040%	
603	22.153	22.144	22.162	VV	7096	66699	3.62%	0.069%	
604	22.174	22.162	22.200	VV	7455	145488	7.89%	0.150%	
605	22.217	22.200	22.222	VV	5665	66345	3.60%	0.069%	
606	22.229	22.222	22.235	VV	5619	40789	2.21%	0.042%	
607	22.239	22.235	22.251	VV	4990	41292	2.24%	0.043%	
608	22.257	22.251	22.265	VV	4049	30871	1.67%	0.032%	
609	22.277	22.265	22.284	VV	4225	38668	2.10%	0.040%	
610	22.291	22.284	22.301	VV	3936	32167	1.75%	0.033%	
611	22.307	22.301	22.321	VV	3807	31318	1.70%	0.032%	
612	22.329	22.321	22.339	VV	2406	17614	0.96%	0.018%	
613	22.344	22.339	22.350	VBA	1719	31467	1.71%	0.033%	

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

rteres

FF071025.M Fri Jul 11 03:40:30 2025

Instrument :
FID_F
ClientSampleId :
WASTE

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: SCIA01

ProjectID: 98 Morse Ave Nutley

Lab Code: ACE

SDG No.: Q2486

Calibration Sequence : FF071025		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	164684190	96873	FF016130.D
850	89059595	104776	FF016131.D
340	36559731	107529	FF016132.D
170	19906477	117097	FF016133.D
85	9088990	106929	FF016134.D
AVG RF : 106641		% RSD : 6.78	AVG RT : 15.1002

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: SCIA01

ProjectID: 98 Morse Ave Nutley

Lab Code: ACE

SDG No.: Q2486

Calibration Sequence : FG070925		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	164717398	96893	FG016264.D
850	83171210	97848	FG016265.D
340	35101863	103241	FG016266.D
170	18639349	109643	FG016267.D
85	9352448	110029	FG016268.D
AVG RF : 103531		% RSD : 6.032	AVG RT : 15.201

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 98 Morse Ave Nutley
Lab Code: ACE SDG No.: Q2486
DataFile: FF016137.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	80684234	94923	106641	10.988

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
 Data File : FF016137.D
 Signal(s) : FID2B.ch
 Acq On : 10 Jul 2025 15:12
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Jul 10 15:21:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 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...	15.100	4476503	45.972 ug/ml
Target Compounds			
1) N-OCTANE	2.072	5600933	44.903 ug/ml
2) N-DECANE	4.615	5504135	44.226 ug/ml
3) N-DODECANE	6.792	5375794	44.116 ug/ml
4) N-TETRADECANE	8.627	5301276	44.096 ug/ml
5) N-HEXADECANE	10.236	5198169	44.687 ug/ml
6) N-OCTADECANE	11.683	5248847	45.168 ug/ml
7) N-EICOSANE	12.997	5332189	45.593 ug/ml
8) N-DOCOSANE	14.197	5149455	45.926 ug/ml
10) N-TETRACOSANE	15.304	5098979	45.974 ug/ml
11) N-HEXACOSANE	16.330	4935128	45.961 ug/ml
12) N-OCTACOSANE	17.281	4933660	45.880 ug/ml
13) N-TRIACONTANE	18.172	4922480	45.448 ug/ml
14) N-DOTRIACONTANE	19.008	4728411	45.091 ug/ml
15) N-TETRATRIACONTANE	19.795	4256379	44.366 ug/ml
16) N-HEXATRIACONTANE	20.536	3468512	41.578 ug/ml
17) N-OCTATRIACONTANE	21.302	2970700	40.338 ug/ml
18) N-TETRACONTANE	22.267	2659187	39.095 ug/ml

(f)=RT Delta > 1/2 Window

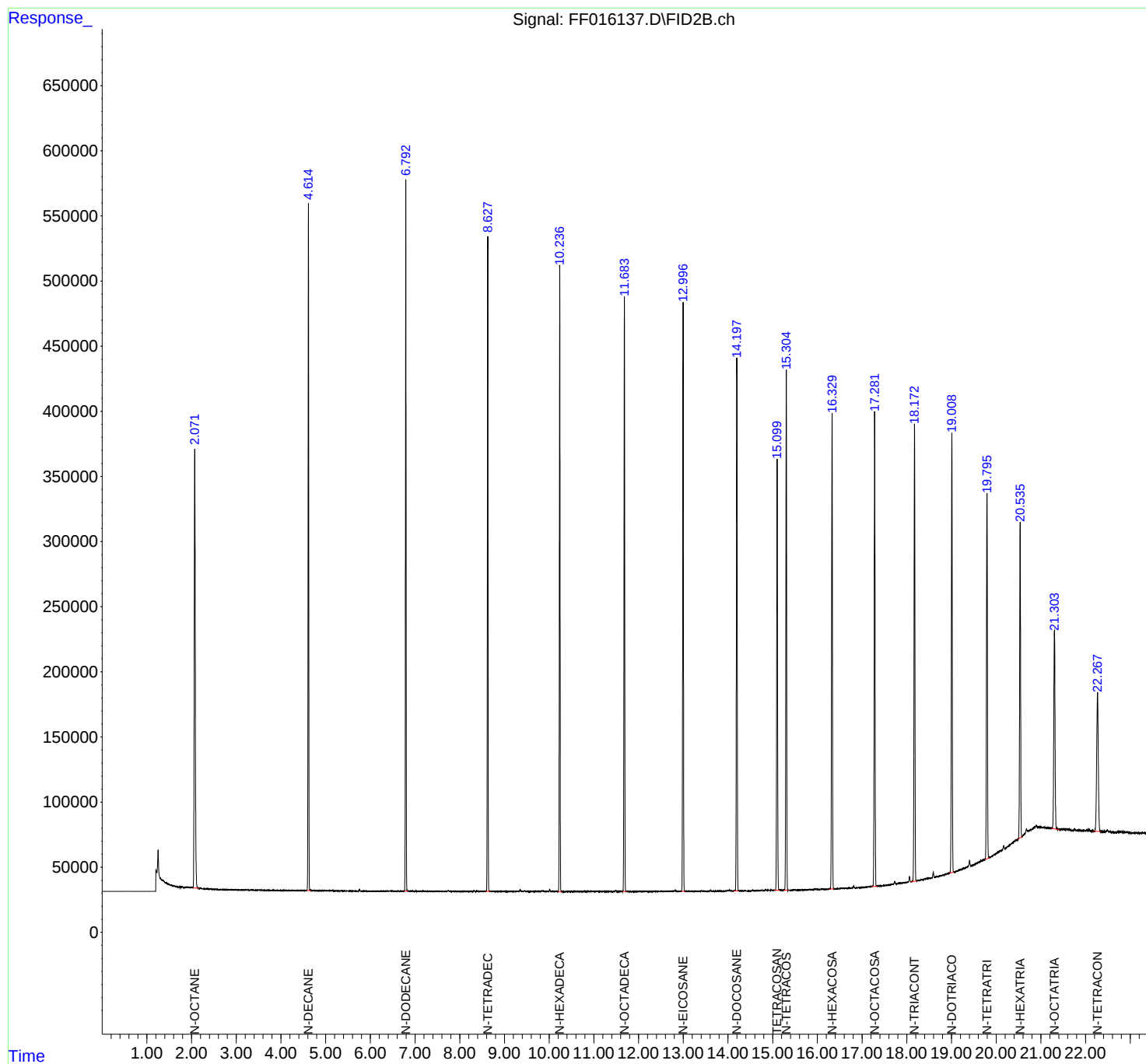
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016137.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 15:12
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Jul 10 15:21:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016137.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 15:12
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.072	2.032	2.169	VB	336931	5600933	100.00%	6.577%
2	4.615	4.574	4.674	BB	526909	5504135	98.27%	6.463%
3	6.792	6.757	6.847	BB	546179	5375794	95.98%	6.313%
4	8.627	8.584	8.679	BB	504282	5301276	94.65%	6.225%
5	10.236	10.201	10.286	BB	480815	5198169	92.81%	6.104%
6	11.683	11.644	11.737	BB	455452	5248847	93.71%	6.163%
7	12.997	12.957	13.044	BB	453636	5332189	95.20%	6.261%
8	14.197	14.122	14.236	BB	408726	5149455	91.94%	6.047%
9	15.100	15.039	15.167	BV	331001	4476503	79.92%	5.257%
10	15.304	15.241	15.349	BB	399961	5098979	91.04%	5.987%
11	16.330	16.264	16.376	BB	365115	4935128	88.11%	5.795%
12	17.281	17.201	17.336	BB	363136	4933660	88.09%	5.793%
13	18.172	18.099	18.217	BV	351038	4922480	87.89%	5.780%
14	19.008	18.951	19.054	BB	336629	4728411	84.42%	5.552%
15	19.795	19.751	19.851	BB	279519	4256379	75.99%	4.998%
16	20.536	20.481	20.572	BV	242278	3468512	61.93%	4.073%
17	21.302	21.229	21.414	BB	151846	2970700	53.04%	3.488%
18	22.267	22.179	22.340	BBA	106676	2659187	47.48%	3.123%
Sum of corrected areas:							85160736	

FF071025.M Fri Jul 11 03:28:33 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 98 Morse Ave Nutley
Lab Code: ACE SDG No.: Q2486
DataFile: FF016145.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	99480292	117036	106641	9.748

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
 Data File : FF016145.D
 Signal(s) : FID2B.ch
 Acq On : 10 Jul 2025 20:11
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Jul 11 03:15:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 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...	15.099	5207912	53.483 ug/ml
Target Compounds			
1) N-OCTANE	2.067	6785547	54.400 ug/ml
2) N-DECANE	4.614	7042755	56.589 ug/ml
3) N-DODECANE	6.793	6980159	57.282 ug/ml
4) N-TETRADECANE	8.627	6761123	56.239 ug/ml
5) N-HEXADECANE	10.236	6549222	56.302 ug/ml
6) N-OCTADECANE	11.683	6461155	55.600 ug/ml
7) N-EICOSANE	12.996	6311078	53.963 ug/ml
8) N-DOCOSANE	14.198	6033303	53.809 ug/ml
10) N-TETRACOSANE	15.305	5960941	53.746 ug/ml
11) N-HEXACOSANE	16.328	5878610	54.748 ug/ml
12) N-OCTACOSANE	17.283	5791434	53.857 ug/ml
13) N-TRIACONTANE	18.173	5843543	53.952 ug/ml
14) N-DOTRIACONTANE	19.008	5672157	54.091 ug/ml
15) N-TETRATRIACONTANE	19.795	5102878	53.189 ug/ml
16) N-HEXATRIACONTANE	20.536	4438561	53.206 ug/ml
17) N-OCTATRIACONTANE	21.305	4001940	54.340 ug/ml
18) N-TETRACONTANE	22.267	3865886	56.836 ug/ml

(f)=RT Delta > 1/2 Window

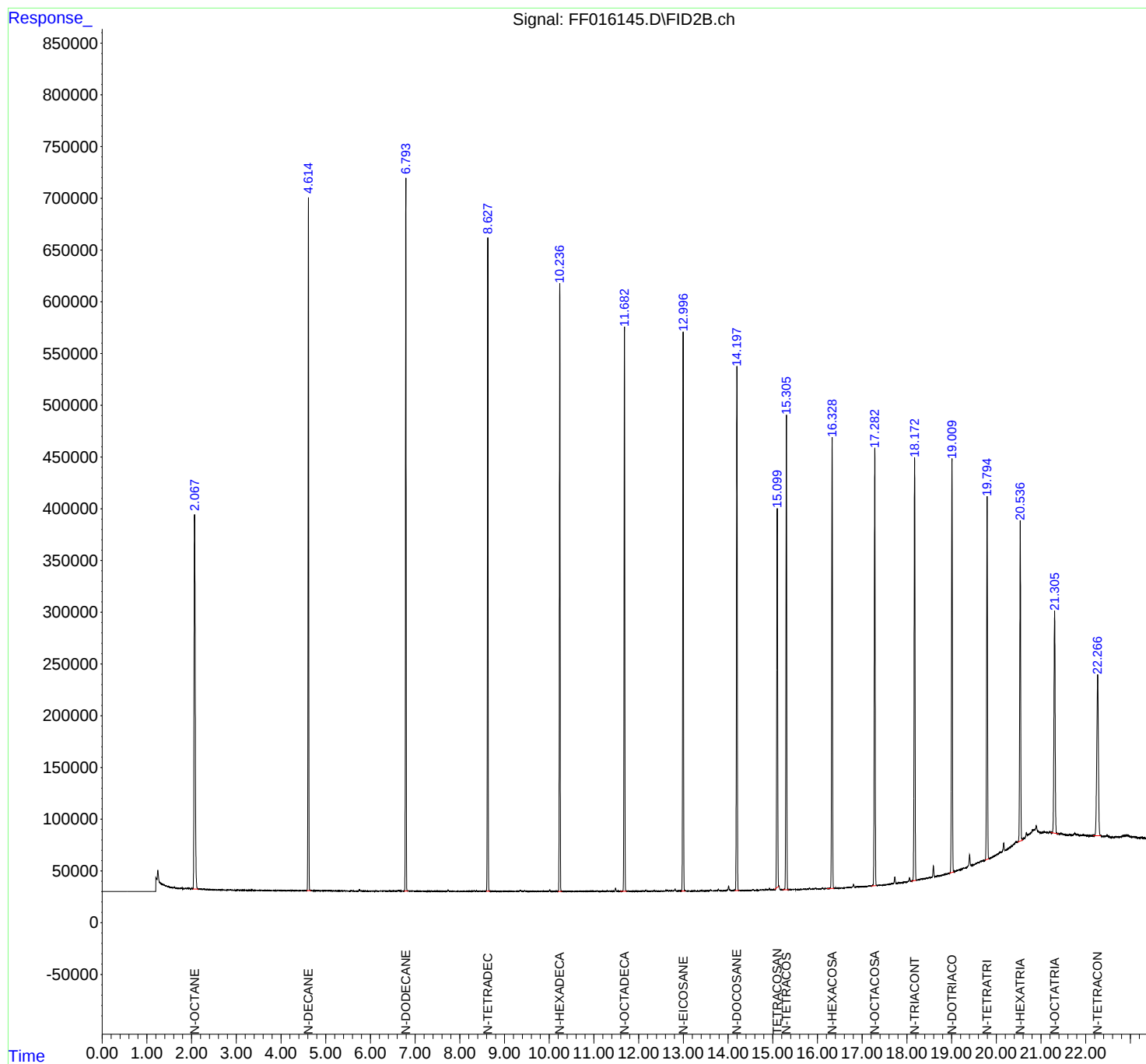
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016145.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 20:11
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Jul 11 03:15:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016145.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 20:11
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.067	2.032	2.154	BB	361847	6785547	96.35%	6.482%
2	4.614	4.574	4.672	BB	670096	7042755	100.00%	6.727%
3	6.793	6.757	6.842	BB	688729	6980159	99.11%	6.668%
4	8.627	8.590	8.672	BB	632095	6761123	96.00%	6.458%
5	10.236	10.197	10.289	BB	584290	6549222	92.99%	6.256%
6	11.683	11.585	11.734	BB	544535	6461155	91.74%	6.172%
7	12.996	12.954	13.045	BB	540631	6311078	89.61%	6.028%
8	14.198	14.160	14.244	VB	507205	6033303	85.67%	5.763%
9	15.099	15.037	15.132	BV	366046	5207912	73.95%	4.975%
10	15.305	15.214	15.364	BB	459220	5960941	84.64%	5.694%
11	16.328	16.212	16.372	BB	435448	5878610	83.47%	5.615%
12	17.283	17.200	17.318	BB	423642	5791434	82.23%	5.532%
13	18.173	18.094	18.211	PV	408016	5843543	82.97%	5.582%
14	19.008	18.950	19.052	BV	399951	5672157	80.54%	5.418%
15	19.795	19.750	19.834	BV	349941	5102878	72.46%	4.874%
16	20.536	20.480	20.582	BV	308116	4438561	63.02%	4.240%
17	21.305	21.220	21.394	BB	214746	4001940	56.82%	3.823%
18	22.267	22.160	22.340	BBA	155313	3865886	54.89%	3.693%
Sum of corrected areas:						104688205		

FF071025.M Fri Jul 11 03:29:44 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 98 Morse Ave Nutley
Lab Code: ACE SDG No.: Q2486
DataFile: FG016272.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	98219150	115552	103531	11.611

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
 Data File : FG016272.D
 Signal(s) : FID1A.ch
 Acq On : 10 Jul 2025 12:44
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Jul 11 04:13:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
 Quant Title :
 QLast Update : Wed Jul 09 12:46:24 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...	15.201	5662704	56.635 ug/ml
Target Compounds			
1) N-OCTANE	2.122	6045410	53.536 ug/ml
2) N-DECANE	4.670	6312590	54.809 ug/ml
3) N-DODECANE	6.853	6429401	55.454 ug/ml
4) N-TETRADECANE	8.694	6459611	54.727 ug/ml
5) N-HEXADECANE	10.313	6502514	56.218 ug/ml
6) N-OCTADECANE	11.767	6634538	56.522 ug/ml
7) N-EICOSANE	13.088	6652231	55.606 ug/ml
8) N-DOCOSANE	14.294	6442817	55.908 ug/ml
10) N-TETRACOSANE	15.406	6377951	55.823 ug/ml
11) N-HEXACOSANE	16.434	6252906	56.824 ug/ml
12) N-OCTACOSANE	17.390	6086870	55.972 ug/ml
13) N-TRIACONTANE	18.283	6026952	56.400 ug/ml
14) N-DOTRIACONTANE	19.121	5718485	56.551 ug/ml
15) N-TETRATRIACONTANE	19.908	5046325	55.462 ug/ml
16) N-HEXATRIACONTANE	20.651	4214901	55.968 ug/ml
17) N-OCTATRIACONTANE	21.441	3670360	56.396 ug/ml
18) N-TETRACONTANE	22.441	3345288	58.043 ug/ml

(f)=RT Delta > 1/2 Window

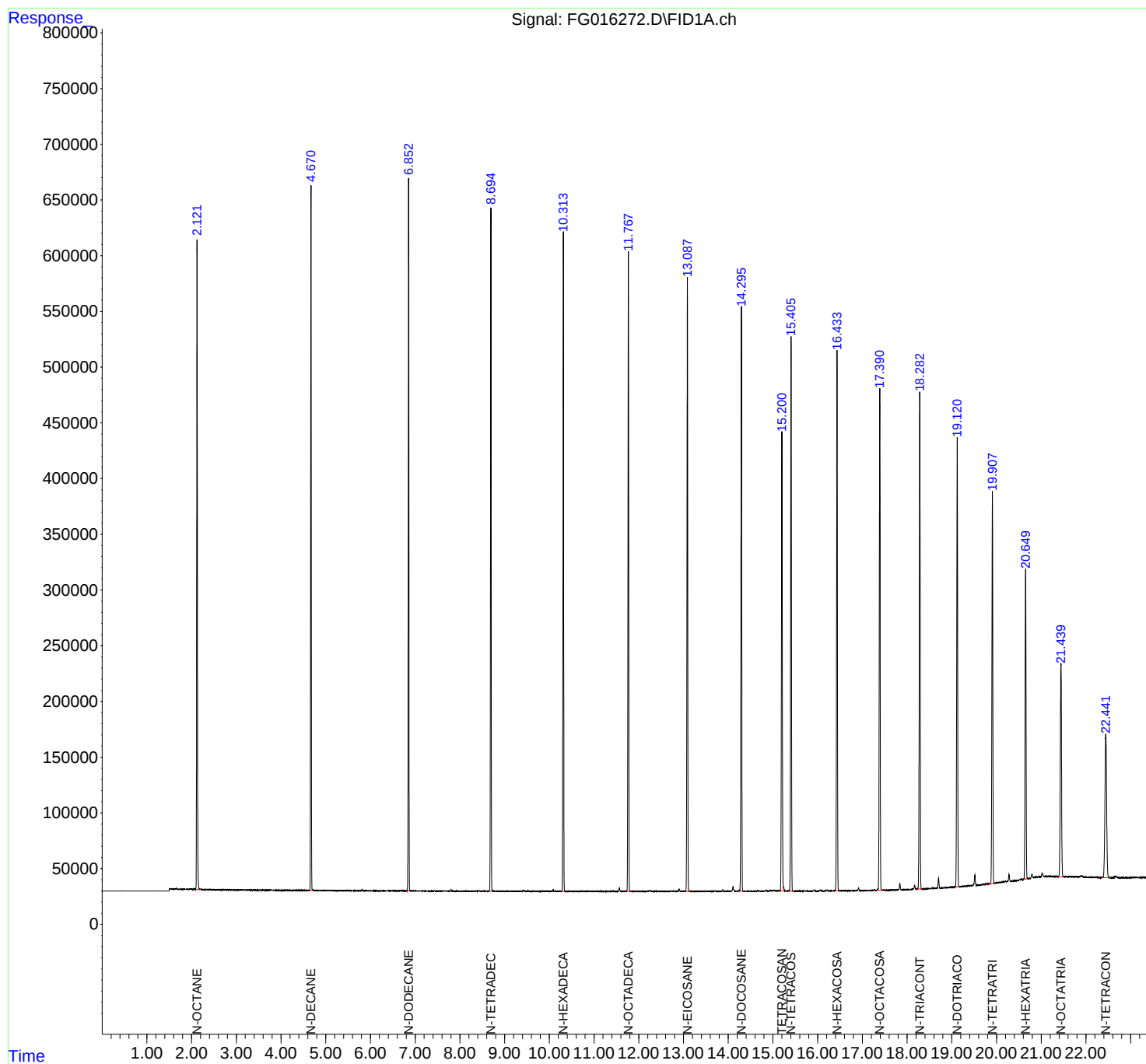
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016272.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 12:44
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Jul 11 04:13:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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\FG071025\
Data File : FG016272.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 12:44
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.122	2.085	2.202	BB	583226	6045410	90.88%	5.820%
2	4.670	4.629	4.724	BB	632179	6312590	94.89%	6.077%
3	6.853	6.815	6.892	BB	639272	6429401	96.65%	6.189%
4	8.694	8.655	8.734	BB	611795	6459611	97.10%	6.218%
5	10.313	10.264	10.360	BB	592703	6502514	97.75%	6.260%
6	11.767	11.716	11.822	BB	573775	6634538	99.73%	6.387%
7	13.088	13.040	13.150	BB	551330	6652231	100.00%	6.404%
8	14.294	14.256	14.342	VB	521454	6442817	96.85%	6.202%
9	15.201	15.155	15.233	BV	411364	5662704	85.12%	5.451%
10	15.406	15.330	15.460	BB	495961	6377951	95.88%	6.140%
11	16.434	16.373	16.491	BB	483607	6252906	94.00%	6.019%
12	17.390	17.313	17.451	BB	448755	6086870	91.50%	5.859%
13	18.283	18.210	18.339	BB	445200	6026952	90.60%	5.802%
14	19.121	19.057	19.178	BB	402553	5718485	85.96%	5.505%
15	19.908	19.790	19.950	PB	351710	5046325	75.86%	4.858%
16	20.651	20.600	20.695	BB	276917	4214901	63.36%	4.057%
17	21.441	21.370	21.516	BB	190300	3670360	55.17%	3.533%
18	22.441	22.352	22.556	BB	128779	3345288	50.29%	3.220%
Sum of corrected areas:						103881853		

FG070925.M Fri Jul 11 04:49:22 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 98 Morse Ave Nutley
Lab Code: ACE SDG No.: Q2486
DataFile: FG016281.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	80120065	94259	103531	8.956

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
 Data File : FG016281.D
 Signal(s) : FID1A.ch
 Acq On : 10 Jul 2025 18:41
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Jul 11 04:15:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
 Quant Title :
 QLast Update : Wed Jul 09 12:46:24 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...	15.210	4556753	45.574 ug/ml
Target Compounds			
1) N-OCTANE	2.125	5038476	44.619 ug/ml
2) N-DECANE	4.675	5182339	44.996 ug/ml
3) N-DODECANE	6.858	5241097	45.205 ug/ml
4) N-TETRADECANE	8.700	5280313	44.736 ug/ml
5) N-HEXADECANE	10.319	5254815	45.431 ug/ml
6) N-OCTADECANE	11.774	5350508	45.583 ug/ml
7) N-EICOSANE	13.096	5455724	45.604 ug/ml
8) N-DOCOSANE	14.304	5262067	45.662 ug/ml
10) N-TETRACOSANE	15.417	5189250	45.419 ug/ml
11) N-HEXACOSANE	16.445	4975914	45.219 ug/ml
12) N-OCTACOSANE	17.400	5005735	46.030 ug/mlm
13) N-TRIACONTANE	18.295	4940798	46.236 ug/ml
14) N-DOTRIACONTANE	19.134	4664192	46.125 ug/ml
15) N-TETRATRIACONTANE	19.923	4148407	45.593 ug/ml
16) N-HEXATRIACONTANE	20.665	3553557	47.186 ug/ml
17) N-OCTATRIACONTANE	21.460	3053518	46.918 ug/ml
18) N-TETRACONTANE	22.472	2523355	43.782 ug/ml

(f)=RT Delta > 1/2 Window

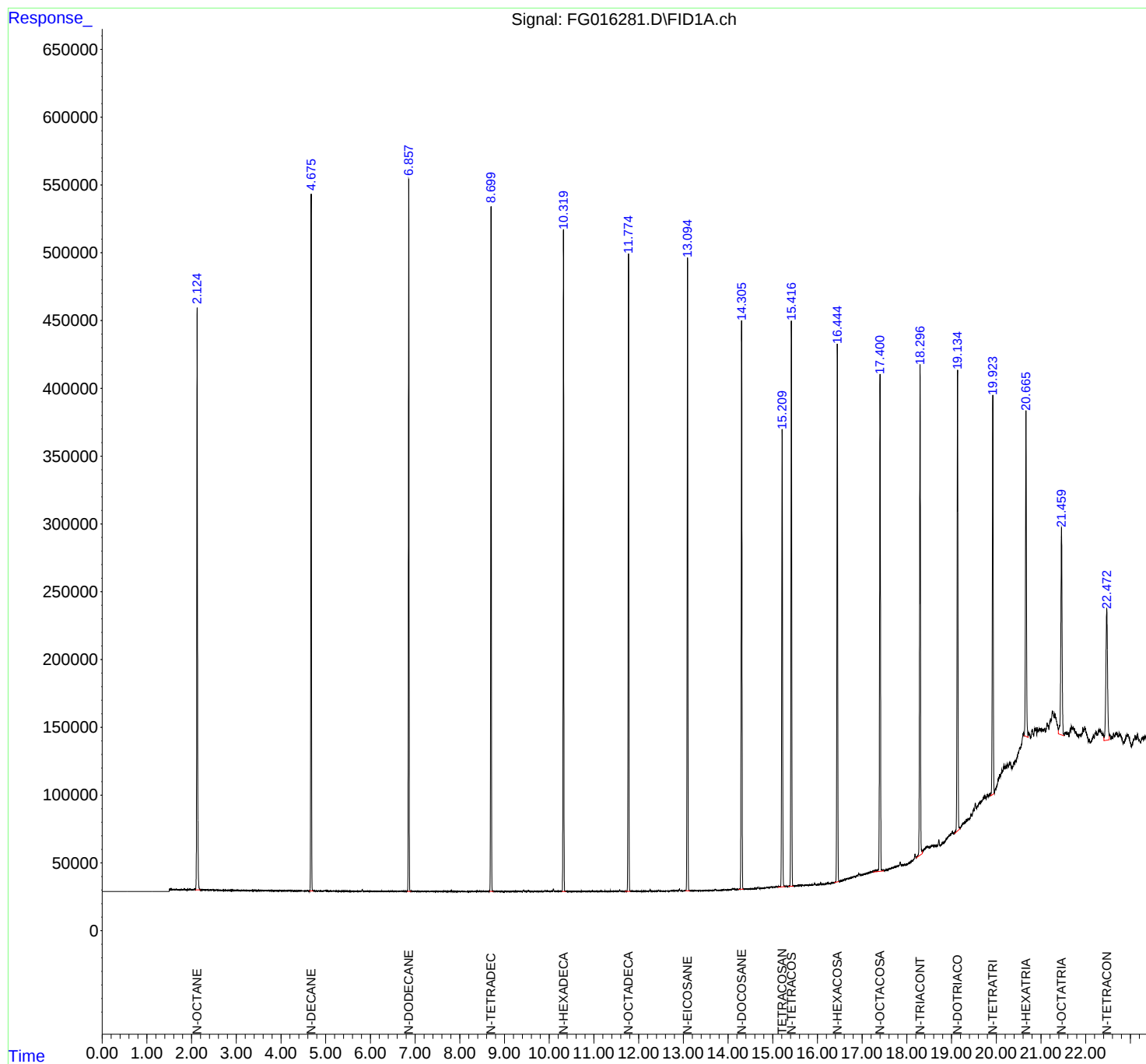
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016281.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 18:41
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Jul 11 04:15:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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\FG071025\
Data File : FG016281.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 18:41
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.125	2.085	2.201	VB	429265	5038476	92.35%	5.948%
2	4.675	4.633	4.723	BB	513111	5182339	94.99%	6.117%
3	6.858	6.823	6.910	BB	523302	5241097	96.07%	6.187%
4	8.700	8.661	8.757	BB	503968	5280313	96.78%	6.233%
5	10.319	10.283	10.375	BB	487720	5254815	96.32%	6.203%
6	11.774	11.693	11.818	BB	470199	5350508	98.07%	6.316%
7	13.096	13.045	13.148	BB	465486	5455724	100.00%	6.440%
8	14.304	14.236	14.348	BB	416357	5262067	96.45%	6.212%
9	15.210	15.112	15.286	BB	336911	4556753	83.52%	5.379%
10	15.417	15.344	15.465	BB	416690	5189250	95.12%	6.126%
11	16.445	16.378	16.483	BB	393891	4975914	91.21%	5.874%
12	17.401	16.990	17.464	BB	361713	5043524	92.44%	5.954%
13	18.295	18.208	18.345	PV	361499	4940798	90.56%	5.832%
14	19.134	19.063	19.197	PV	338051	4664192	85.49%	5.506%
15	19.923	19.881	19.957	VV	294004	4148407	76.04%	4.897%
16	20.665	20.620	20.711	PV	239883	3553557	65.13%	4.195%
17	21.460	21.389	21.520	VV	151753	3053518	55.97%	3.604%
18	22.472	22.408	22.528	VV	96779	2523355	46.25%	2.979%
Sum of corrected areas:							84714607	

FG070925.M Fri Jul 11 04:52:36 2025

Analytical Sequence

Client: Sciacca General Contractors, LLC

SDG No.: Q2486

Project: 98 Morse Ave Nutley

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 15.1002					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	10 Jul 2025 13:43	FF016136.D	15.097	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 15:12	FF016137.D	15.100	
PIT#4MS	Q2473-04MS	10 Jul 2025 16:42	FF016140.D	15.045	
PIT#4MSD	Q2473-04MSD	10 Jul 2025 17:12	FF016141.D	15.046	
WASTE	Q2486-01	10 Jul 2025 17:42	FF016142.D	15.045	
PIBLK02	LBLK02	10 Jul 2025 18:41	FF016144.D	15.098	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 20:11	FF016145.D	15.099	
PIBLK03	LBLK03	10 Jul 2025 10:45	FG016271.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 12:44	FG016272.D	15.201	
PB168785BL	PB168785BL	10 Jul 2025 13:43	FG016274.D	15.197	
PB168785BS	PB168785BS	10 Jul 2025 14:13	FG016275.D	15.197	
PIBLK04	LBLK04	10 Jul 2025 17:12	FG016280.D	15.211	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 18:41	FG016281.D	15.210	



QC SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	98 Morse Ave Nutley		Date Received:		
Client Sample ID:	PB168785BL		SDG No.:	Q2486	
Lab Sample ID:	PB168785BL		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016274.D	1	07/10/25 09:00	07/10/25 13:43	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.5		37 - 130	93%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016274.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 13:43
Operator : YP\AJ
Sample : PB168785BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168785BL

Integration File: autoint1.e
Quant Time: Jul 11 04:14:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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...	15.197	1852718	18.530 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

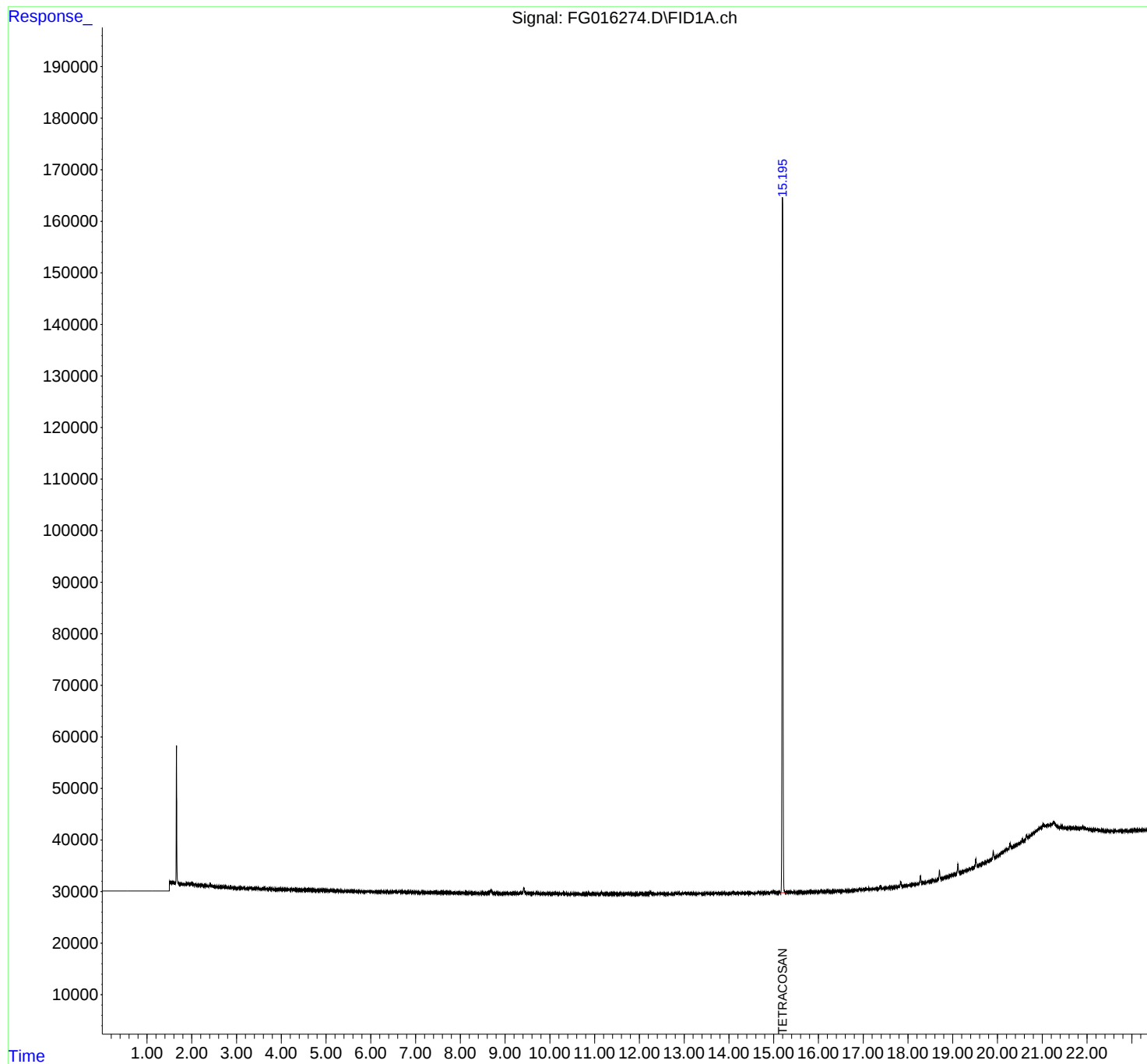
(m)=manual int.

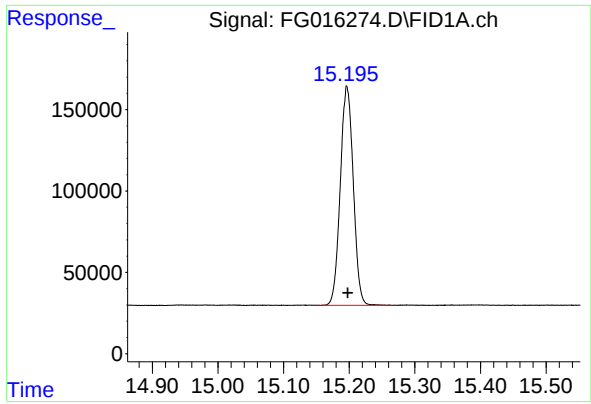
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016274.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 13:43
Operator : YP\AJ
Sample : PB168785BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168785BL

Integration File: autoint1.e
Quant Time: Jul 11 04:14:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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.: 15.197 min
Delta R.T.: 0.000 min
Response: 1852718
Conc: 18.53 ug/ml

Instrument :
FID_G
ClientSampleId :
PB168785BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016274.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 13:43
Sample : PB168785BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.197	15.150	15.265	BB	134432	1852718	100.00%	100.000%
Sum of corrected areas:						1852718		

FG070925.M Fri Jul 11 04:50:04 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	07/10/25
Project:	98 Morse Ave Nutley	Date Received:	07/10/25
Client Sample ID:	PIBLK-FF016136.D	SDG No.:	Q2486
Lab Sample ID:	I.BLK-FF016136.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016136.D	1		07/10/25	FF071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	20.2		29 - 130	101%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016136.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 13:43
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 10 13:56:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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...	15.097	1966887	20.199 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

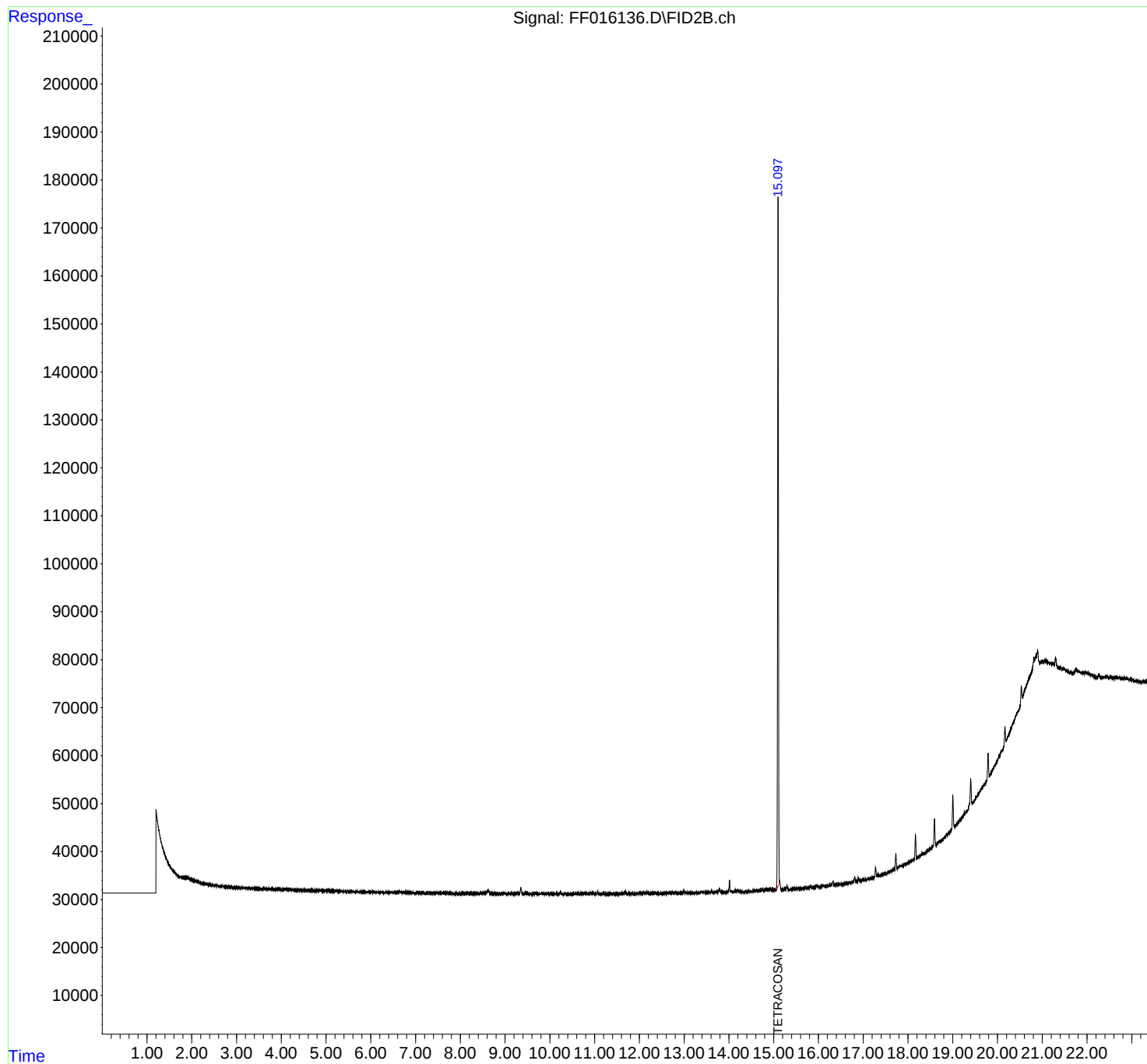
(m)=manual int.

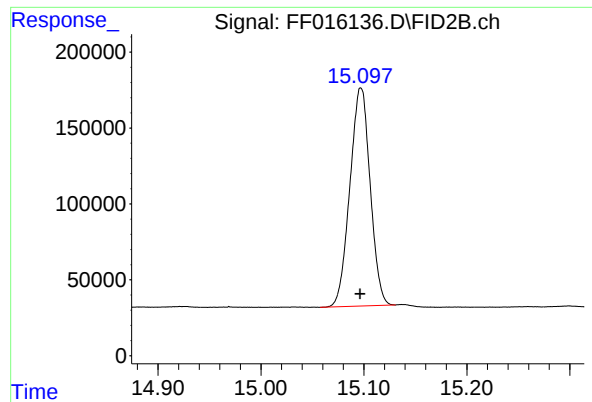
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016136.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 13:43
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 10 13:56:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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.: 15.097 min
Delta R.T.: 0.000 min
Response: 1966887
Conc: 20.20 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016136.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 13:43
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.097	15.057	15.131	BV	143579	1966887	100.00%	100.000%
Sum of corrected areas:						1966887		

FF071025.M Fri Jul 11 03:28:08 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	07/10/25	
Project:	98 Morse Ave Nutley		Date Received:	07/10/25	
Client Sample ID:	PIBLK-FF016144.D		SDG No.:	Q2486	
Lab Sample ID:	I.BLK-FF016144.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016144.D	1		07/10/25	FF071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	21.3		29 - 130	107%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016144.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 18:41
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
Quant Time: Jul 11 02:58:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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...	15.097	2077417	21.334 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016144.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 18:41
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

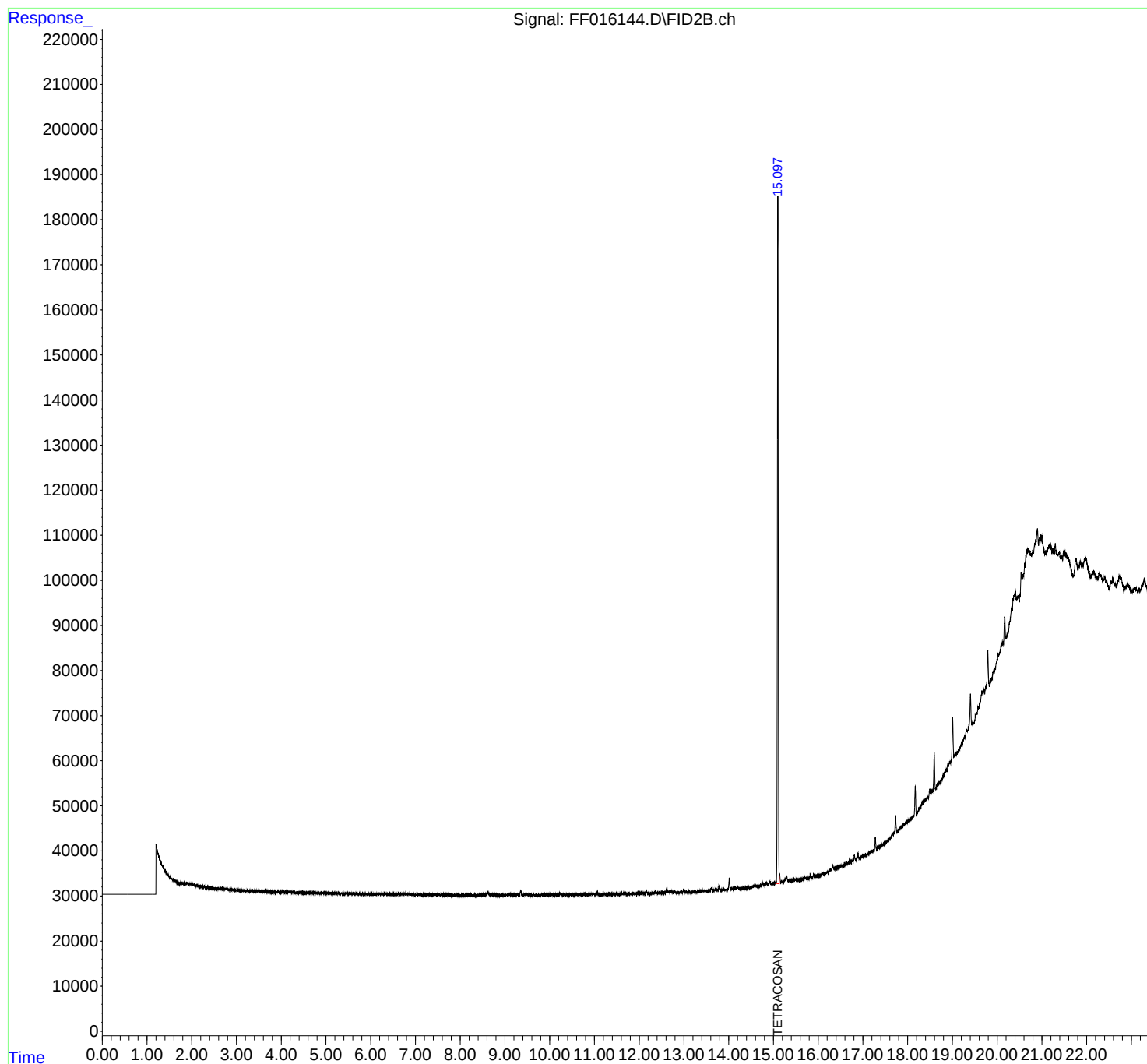
Instrument :
FID_F
ClientSampleId :
I.BLK

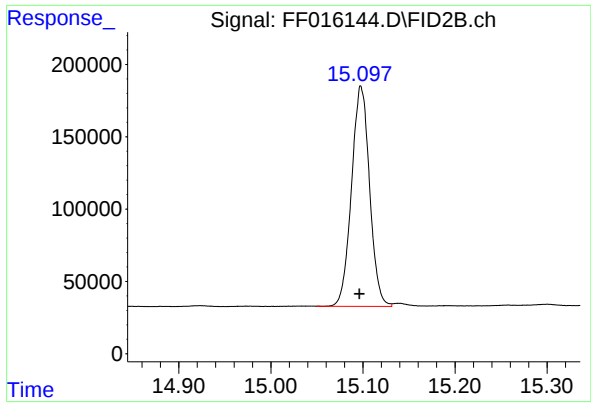
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
Quant Time: Jul 11 02:58:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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.: 15.097 min
Delta R.T.: 0.000 min
Response: 2077417
Conc: 21.33 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

rteres

Instrument :
FID_F
LabSampleId :
I.BLK

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025.M
Data File : FF016144.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 18:41
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.098	15.034	15.131	BV	151507	2019918	100.00%	100.000%
Sum of corrected areas:						2019918		

FF071025.M Fri Jul 11 03:29:10 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	07/10/25
Project:	98 Morse Ave Nutley	Date Received:	07/10/25
Client Sample ID:	PIBLK-FG016271.D	SDG No.:	Q2486
Lab Sample ID:	I.BLK-FG016271.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016271.D	1		07/10/25	FG071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.9		29 - 130	95%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016271.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 10:45
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 11 05:46:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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...	15.198	1913798	19.141 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

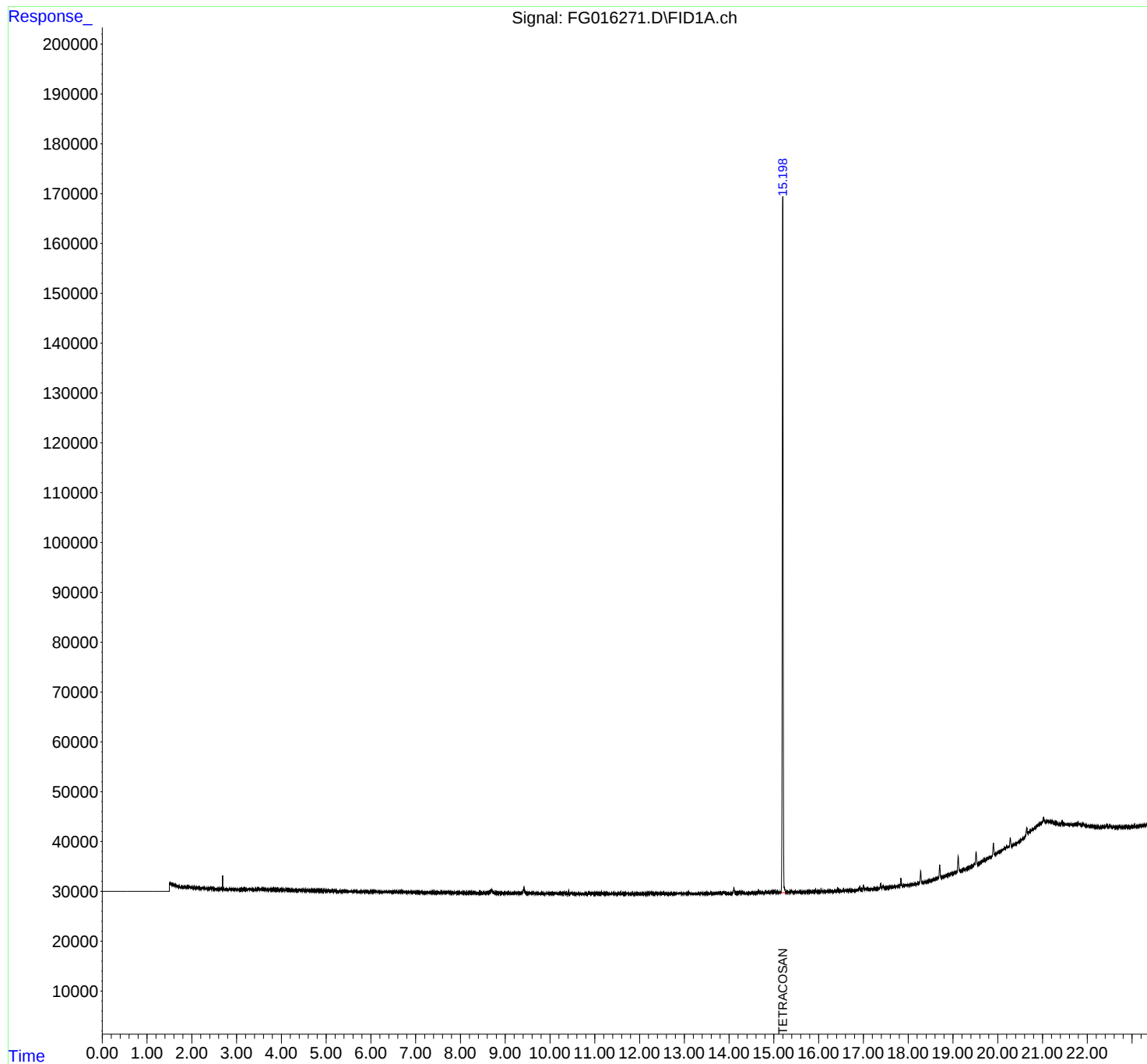
(m)=manual int.

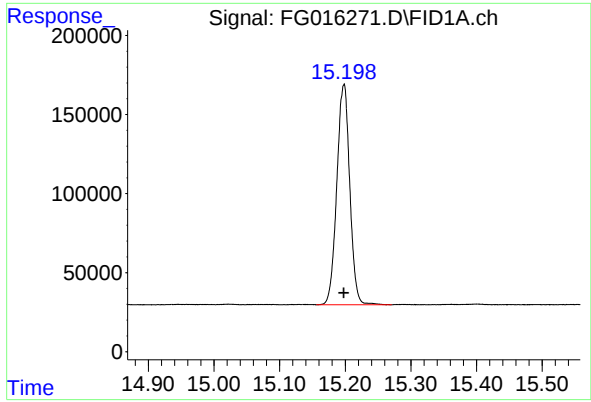
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016271.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 10:45
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 11 05:46:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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.: 15.198 min
Delta R.T.: 0.000 min
Response: 1913798
Conc: 19.14 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016271.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 10:45
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.198	15.156	15.271	BB	139458	1913798	100.00%	100.000%
Sum of corrected areas:						1913798		

FG070925.M Fri Jul 11 05:48:52 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	07/10/25	
Project:	98 Morse Ave Nutley		Date Received:	07/10/25	
Client Sample ID:	PIBLK-FG016280.D		SDG No.:	Q2486	
Lab Sample ID:	I.BLK-FG016280.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016280.D	1		07/10/25	FG071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.1		29 - 130	96%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016280.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 17:12
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 11 04:15:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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...	15.211	1914229	19.145 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

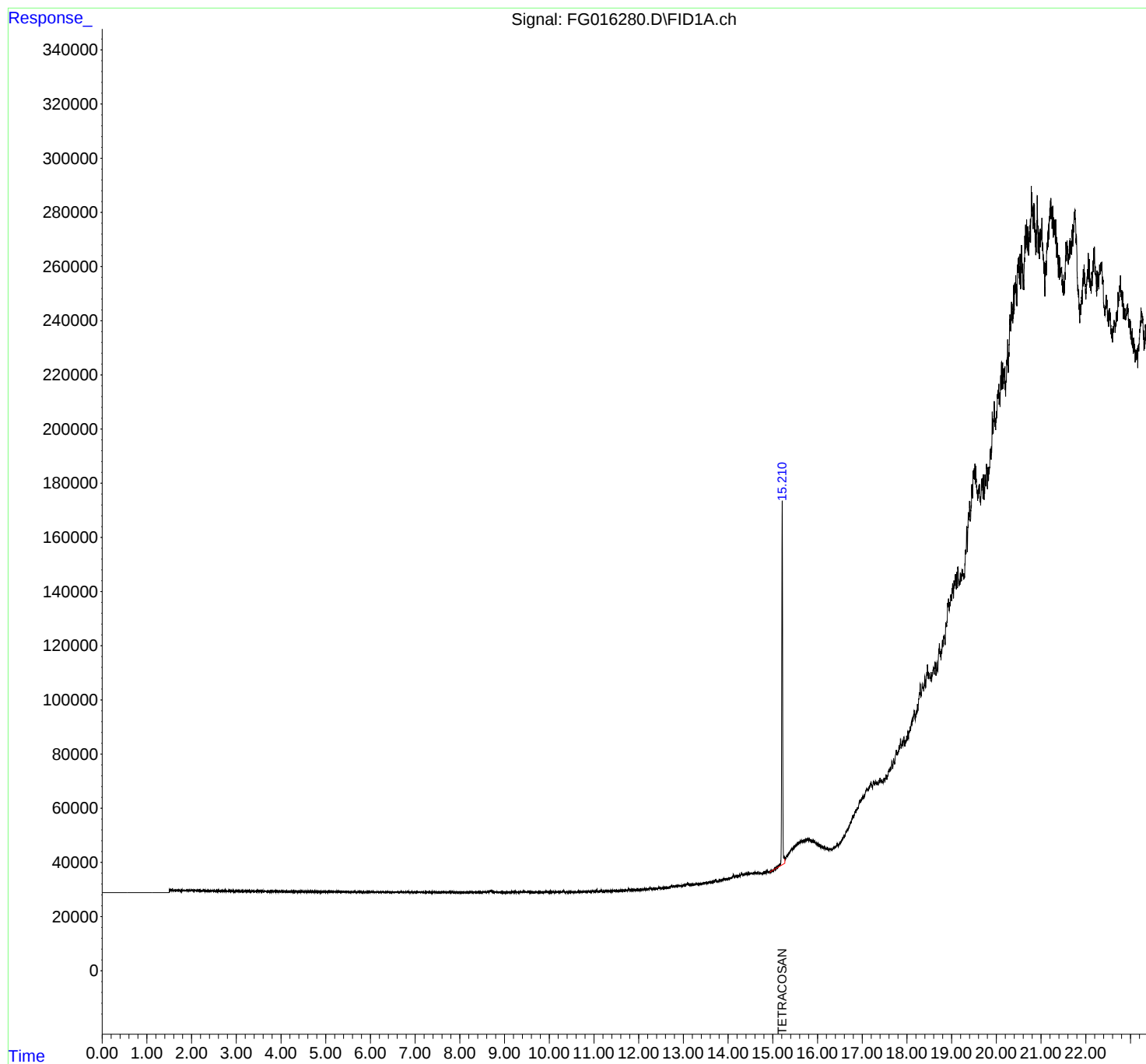
(m)=manual int.

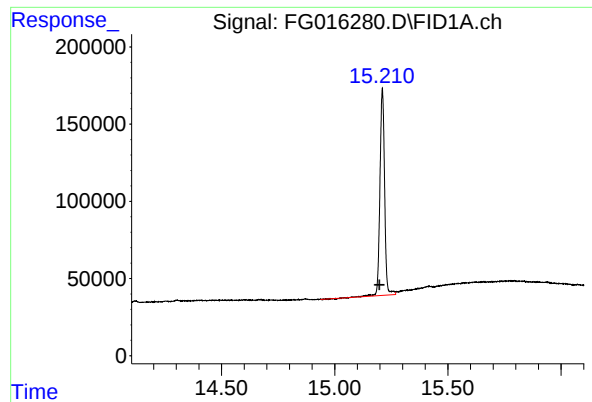
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016280.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 17:12
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 11 04:15:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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.: 15.211 min
Delta R.T.: 0.013 min
Response: 1914229
Conc: 19.14 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016280.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 17:12
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.211	14.936	15.269	BV	134432	1914229	100.00%	100.000%
Sum of corrected areas:						1914229		

FG070925.M Fri Jul 11 04:50:47 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	98 Morse Ave Nutley		Date Received:		
Client Sample ID:	PB168785BS		SDG No.:	Q2486	
Lab Sample ID:	PB168785BS		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016275.D	1	07/10/25 09:00	07/10/25 14:13	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	10000		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.8		37 - 130	94%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
 Data File : FG016275.D
 Signal(s) : FID1A.ch
 Acq On : 10 Jul 2025 14:13
 Operator : YP\AJ
 Sample : PB168785BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB168785BS

Integration File: autoint1.e
 Quant Time: Jul 11 04:14:12 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
 Quant Title :
 QLast Update : Wed Jul 09 12:46:24 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...	15.197	1880042	18.803 ug/ml
Target Compounds			
1) N-OCTANE	2.122	1620740	14.353 ug/ml
2) N-DECANE	4.668	1931765	16.773 ug/ml
3) N-DODECANE	6.850	1985022	17.121 ug/ml
4) N-TETRADECANE	8.690	2017051	17.089 ug/ml
5) N-HEXADECANE	10.310	2015694	17.427 ug/ml
6) N-OCTADECANE	11.763	2058479	17.537 ug/ml
7) N-EICOSANE	13.083	2105192	17.597 ug/ml
8) N-DOCOSANE	14.291	2035381	17.662 ug/ml
10) N-TETRACOSANE	15.402	2021094	17.690 ug/ml
11) N-HEXACOSANE	16.430	1944445	17.670 ug/ml
12) N-OCTACOSANE	17.386	1922719	17.680 ug/ml
13) N-TRIACONTANE	18.279	1890617	17.692 ug/ml
14) N-DOTRIACONTANE	19.117	1783094	17.633 ug/ml
15) N-TETRATRIACONTANE	19.906	1606348	17.655 ug/ml
16) N-HEXATRIACONTANE	20.650	1410995	18.736 ug/ml
17) N-OCTATRIACONTANE	21.439	1361864	20.925 ug/ml
18) N-TETRACONTANE	22.442	1350559	23.433 ug/ml

(f)=RT Delta > 1/2 Window

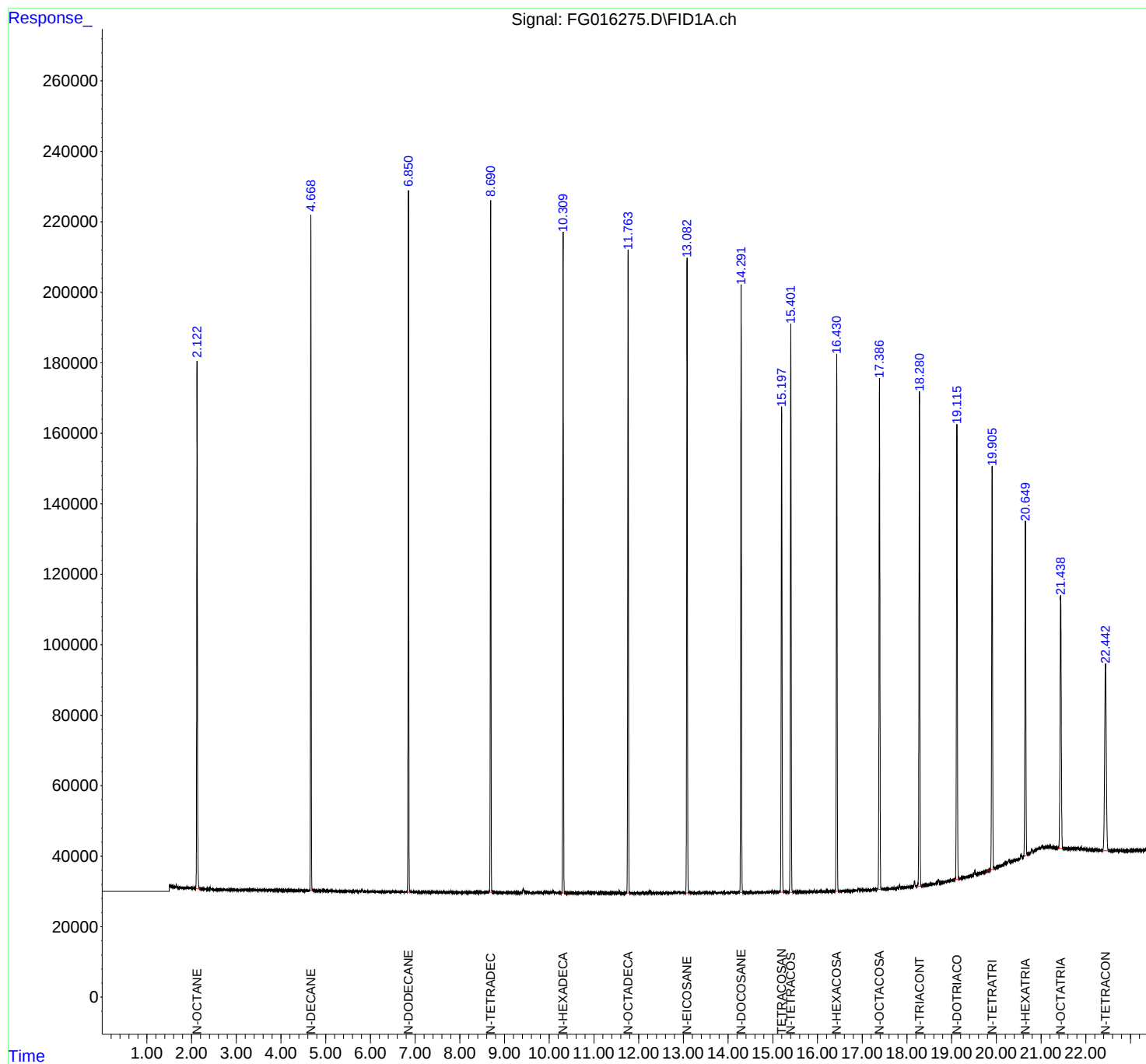
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016275.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 14:13
Operator : YP\AJ
Sample : PB168785BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168785BS

Integration File: autoint1.e
Quant Time: Jul 11 04:14:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 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\FG071025\
Data File : FG016275.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 14:13
Sample : PB168785BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.122	2.091	2.196	BB	149626	1620740	76.99%	4.920%
2	4.668	4.639	4.712	BB	191711	1931765	91.76%	5.864%
3	6.850	6.818	6.897	BB	199150	1985022	94.29%	6.026%
4	8.690	8.645	8.742	BB	196233	2017051	95.81%	6.123%
5	10.310	10.267	10.359	BB	187517	2015694	95.75%	6.119%
6	11.763	11.727	11.797	BB	181784	2058479	97.78%	6.249%
7	13.083	13.040	13.132	BB	179965	2105192	100.00%	6.391%
8	14.291	14.241	14.340	BB	172389	2035381	96.68%	6.179%
9	15.197	15.154	15.257	BB	137543	1880042	89.30%	5.707%
10	15.402	15.365	15.454	BB	159767	2021094	96.01%	6.135%
11	16.430	16.390	16.485	BB	151787	1944445	92.36%	5.903%
12	17.386	17.324	17.423	BB	144987	1922719	91.33%	5.837%
13	18.279	18.220	18.335	BB	140079	1890617	89.81%	5.739%
14	19.117	19.062	19.173	BB	127347	1783094	84.70%	5.413%
15	19.906	19.779	19.945	BB	114242	1606348	76.30%	4.876%
16	20.650	20.600	20.691	BB	94885	1410995	67.02%	4.283%
17	21.439	21.375	21.512	BB	71938	1361864	64.69%	4.134%
18	22.442	22.358	22.528	BB	53051	1350559	64.15%	4.100%
Sum of corrected areas:							32941101	

FG070925.M Fri Jul 11 04:50:19 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	07/01/25	
Project:	98 Morse Ave Nutley		Date Received:	07/01/25	
Client Sample ID:	PIT#4MS		SDG No.:	Q2486	
Lab Sample ID:	Q2473-04MS		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	90.7	Decanted:
Sample Wt/Vol:	30.05	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016140.D	1	07/10/25 09:00	07/10/25 16:42	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	26600		423	3120	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.4		37 - 130	62%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
 Data File : FF016140.D
 Signal(s) : FID2B.ch
 Acq On : 10 Jul 2025 16:42
 Operator : YP\AJ
 Sample : Q2473-04MS
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PIT#4MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/11/2025
 Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
 Quant Time: Jul 11 02:58:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 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...	15.096	1203313	12.358 ug/ml
Target Compounds			
1) N-OCTANE	2.075	1591323	12.758 ug/ml
2) N-DECANE	4.614	1885880	15.153 ug/ml
3) N-DODECANE	6.791	1968893	16.158 ug/ml
4) N-TETRADECANE	8.624	2038025	16.952 ug/ml
5) N-HEXADECANE	10.234	2088900	17.958 ug/ml
6) N-OCTADECANE	11.680	2115830	18.207 ug/ml
7) N-EICOSANE	12.993	2185547	18.687 ug/ml
8) N-DOCOSANE	14.195	2141926	19.103 ug/ml
10) N-TETRACOSANE	15.302	2403976	21.675 ug/ml
11) N-HEXACOSANE	16.326	2059185	19.177 ug/ml
12) N-OCTACOSANE	17.277	2128719	19.796 ug/mlm
13) N-TRIACONTANE	18.170	2123106	19.602 ug/ml
14) N-DOTRIACONTANE	19.005	1913180	18.244 ug/ml
15) N-TETRATRIACONTANE	19.791	1660958	17.313 ug/ml
16) N-HEXATRIACONTANE	20.534	1345700	16.131 ug/ml
17) N-OCTATRIACONTANE	21.300	1285843	17.460 ug/ml
18) N-TETRACONTANE	22.265	1308721	19.241 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016140.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 16:42
Operator : YP\AJ
Sample : Q2473-04MS
Misc :
ALS Vial : 72 Sample Multiplier: 1

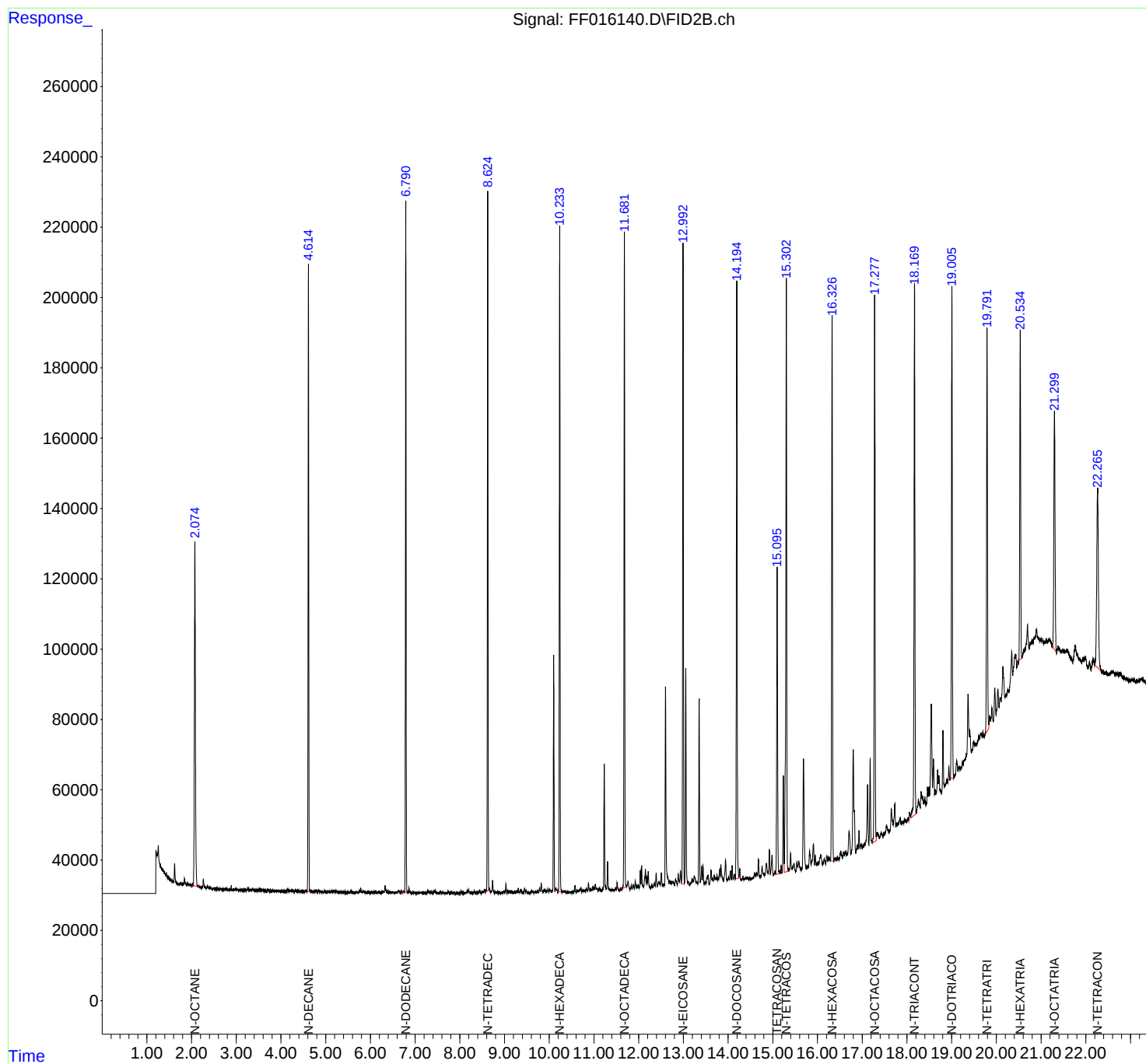
Instrument :
FID_F
ClientSampleId :
PIT#4MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
Quant Time: Jul 11 02:58:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rters

Instrument :

FID_F

ClientSampleId :

PIT#4MS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025.M
Data File : FF016140.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 16:42
Sample : Q2473-04MS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.205	1.197	1.230	BV	12033	195053	8.03%	0.249%
2	1.256	1.230	1.339	VV	13620	607836	25.02%	0.775%
3	1.346	1.339	1.428	VV	7013	318956	13.13%	0.407%
4	1.437	1.428	1.527	VV	5857	267540	11.01%	0.341%
5	1.532	1.527	1.593	VV	3833	138349	5.69%	0.176%
6	1.621	1.593	1.709	VV	8403	258000	10.62%	0.329%
7	1.728	1.709	1.746	VV	2644	57206	2.35%	0.073%
8	1.754	1.746	1.771	VV	2714	39354	1.62%	0.050%
9	1.777	1.771	1.817	VV	2592	68450	2.82%	0.087%
10	1.843	1.817	1.882	VV	4176	113518	4.67%	0.145%
11	1.894	1.882	1.930	VV	2672	71140	2.93%	0.091%
12	1.932	1.930	1.938	VV	2439	11801	0.49%	0.015%
13	1.954	1.938	1.979	VV	2397	55952	2.30%	0.071%
14	1.984	1.979	1.991	VV	2253	16131	0.66%	0.021%
15	2.005	1.991	2.034	VV	2293	54921	2.26%	0.070%
16	2.075	2.034	2.172	VV	99748	1748717	71.98%	2.230%
17	2.174	2.172	2.182	VV	1722	9762	0.40%	0.012%
18	2.189	2.182	2.199	VV	1648	16091	0.66%	0.021%
19	2.205	2.199	2.218	VV	1632	18362	0.76%	0.023%
20	2.227	2.218	2.248	VV	1608	27554	1.13%	0.035%
21	2.262	2.248	2.320	VV	3669	87001	3.58%	0.111%
22	2.323	2.320	2.340	VV	1411	16480	0.68%	0.021%
23	2.355	2.340	2.384	VV	1939	40488	1.67%	0.052%
24	2.409	2.384	2.450	VV	1551	51736	2.13%	0.066%
25	2.454	2.450	2.468	VV	1117	11504	0.47%	0.015%
26	2.474	2.468	2.478	VV	1117	5780	0.24%	0.007%
27	2.481	2.478	2.485	VV	1127	4967	0.20%	0.006%
28	2.499	2.485	2.533	VV	1105	29654	1.22%	0.038%
29	2.534	2.533	2.574	VV	1062	24175	1.00%	0.031%
30	2.579	2.574	2.610	VV	994	19457	0.80%	0.025%
31	2.612	2.610	2.619	VV	961	4868	0.20%	0.006%
32	2.626	2.619	2.639	VV	958	11088	0.46%	0.014%
33	2.648	2.639	2.672	VV	966	17407	0.72%	0.022%
34	2.675	2.672	2.706	VV	902	17078	0.70%	0.022%
35	2.715	2.706	2.748	VV	864	20396	0.84%	0.026%
36	2.768	2.748	2.809	VV	1033	31131	1.28%	0.040%

37	2.812	2.809	2.818	VV	738	3924	0.16%	0.005%
38	2.821	2.818	2.825	VV	747	3170		
39	2.848	2.825	2.855	VV	835	13587		
40	2.860	2.855	2.879	VV	797	10262		
41	2.888	2.879	2.907	VV	1550	12704		
42	2.916	2.907	2.922	VV	713	5742		
43	2.925	2.922	2.940	VV	690	7005	0.29%	0.009%
44	2.944	2.940	2.948	VV	645	2727	0.11%	0.003%
45	2.958	2.948	2.970	VV	656	8476	0.35%	0.011%
46	2.991	2.970	3.031	VV	1056	27580	1.14%	0.035%
47	3.044	3.031	3.069	VV	744	13984	0.58%	0.018%
48	3.081	3.069	3.097	VV	660	10383	0.43%	0.013%
49	3.102	3.097	3.107	VV	608	3308	0.14%	0.004%
50	3.114	3.107	3.119	VV	552	3533	0.15%	0.005%
51	3.131	3.119	3.160	VV	566	12457	0.51%	0.016%
52	3.165	3.160	3.176	VV	557	4673	0.19%	0.006%
53	3.185	3.176	3.196	VV	535	5918	0.24%	0.008%
54	3.203	3.196	3.216	VV	560	5945	0.24%	0.008%
55	3.220	3.216	3.225	VV	484	2284	0.09%	0.003%
56	3.231	3.225	3.236	VV	496	3114	0.13%	0.004%
57	3.254	3.236	3.289	VV	1029	22004	0.91%	0.028%
58	3.293	3.289	3.305	VV	472	4230	0.17%	0.005%
59	3.317	3.305	3.325	VV	483	5589	0.23%	0.007%
60	3.332	3.325	3.345	VV	527	5532	0.23%	0.007%
61	3.359	3.345	3.393	VV	855	17972	0.74%	0.023%
62	3.401	3.393	3.419	VV	512	6849	0.28%	0.009%
63	3.428	3.419	3.441	VV	422	5216	0.21%	0.007%
64	3.446	3.441	3.451	VV	441	2622	0.11%	0.003%
65	3.455	3.451	3.459	VV	478	1876	0.08%	0.002%
66	3.465	3.459	3.482	VV	458	5867	0.24%	0.007%
67	3.486	3.482	3.497	VV	464	3773	0.16%	0.005%
68	3.500	3.497	3.506	VV	435	2335	0.10%	0.003%
69	3.525	3.506	3.533	VV	548	7098	0.29%	0.009%
70	3.535	3.533	3.555	VV	550	6656	0.27%	0.008%
71	3.580	3.555	3.612	VV	588	14526	0.60%	0.019%
72	3.616	3.612	3.625	VV	328	1875	0.08%	0.002%
73	3.632	3.625	3.645	VV	304	2956	0.12%	0.004%
74	3.655	3.645	3.678	VV	275	4735	0.19%	0.006%
75	3.699	3.678	3.710	VV	442	5840	0.24%	0.007%
76	3.721	3.710	3.735	VV	358	4146	0.17%	0.005%
77	3.742	3.735	3.751	VV	256	2165	0.09%	0.003%
78	3.763	3.751	3.767	VV	229	1767	0.07%	0.002%
79	3.773	3.767	3.784	VV	216	1610	0.07%	0.002%
80	3.798	3.784	3.833	VV	273	5092	0.21%	0.006%
81	3.855	3.833	3.860	VV	183	2209	0.09%	0.003%
82	3.866	3.860	3.875	VV	161	1188	0.05%	0.002%
83	3.879	3.875	3.900	VV	163	1553	0.06%	0.002%
84	3.916	3.900	3.930	VV	193	2367	0.10%	0.003%
85	3.932	3.930	3.948	VV	133	847	0.03%	0.001%
86	3.951	3.948	3.961	VV	138	418	0.02%	0.001%
87	3.975	3.961	3.991	VV	95	523	0.02%	0.001%
88	4.011	3.995	4.026	BV	38	181	0.01%	0.000%
89	4.043	4.026	4.055	PV	136	1491	0.06%	0.002%

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90	4.068	4.055	4.072	VV	159	993	0.04%	0.001%
91	4.076	4.072	4.107	VV	159	2123		
92	4.118	4.107	4.123	PV	171	864		
93	4.149	4.123	4.198	VV	683	14659		
94	4.216	4.198	4.231	VV	459	6850		
95	4.236	4.231	4.296	VV	378	9170		
96	4.319	4.296	4.324	VV	415	4945	0.20%	0.006%
97	4.332	4.324	4.346	VV	422	4579	0.19%	0.006%
98	4.354	4.346	4.372	VV	380	4605	0.19%	0.006%
99	4.380	4.372	4.405	VV	382	4658	0.19%	0.006%
100	4.408	4.405	4.418	VV	203	1388	0.06%	0.002%
101	4.425	4.418	4.472	VV	266	5208	0.21%	0.007%
102	4.488	4.472	4.510	VV	193	3010	0.12%	0.004%
103	4.538	4.510	4.553	VV	189	3772	0.16%	0.005%
104	4.568	4.553	4.585	VV	304	4334	0.18%	0.006%
105	4.614	4.585	4.671	VV	178516	1896389	78.06%	2.418%
106	4.674	4.671	4.681	VV	232	1327	0.05%	0.002%
107	4.697	4.681	4.712	VV	275	3949	0.16%	0.005%
108	4.715	4.712	4.724	VV	202	1284	0.05%	0.002%
109	4.742	4.724	4.759	VV	278	3578	0.15%	0.005%
110	4.779	4.759	4.815	VV	754	10993	0.45%	0.014%
111	4.820	4.815	4.825	VV	198	906	0.04%	0.001%
112	4.839	4.825	4.874	VV	532	9147	0.38%	0.012%
113	4.901	4.874	4.909	VV	281	3498	0.14%	0.004%
114	4.924	4.909	4.947	VV	246	3712	0.15%	0.005%
115	4.961	4.947	4.966	VV	226	1698	0.07%	0.002%
116	4.978	4.966	5.014	VV	376	5726	0.24%	0.007%
117	5.020	5.014	5.024	VV	226	920	0.04%	0.001%
118	5.042	5.024	5.051	VV	221	2463	0.10%	0.003%
119	5.075	5.051	5.092	VV	236	4324	0.18%	0.006%
120	5.123	5.092	5.128	VV	304	4798	0.20%	0.006%
121	5.135	5.128	5.151	VV	354	3534	0.15%	0.005%
122	5.167	5.151	5.175	VV	399	4382	0.18%	0.006%
123	5.188	5.175	5.192	VV	417	3875	0.16%	0.005%
124	5.195	5.192	5.204	VV	402	2389	0.10%	0.003%
125	5.206	5.204	5.211	VV	374	1586	0.07%	0.002%
126	5.224	5.211	5.245	VV	491	6471	0.27%	0.008%
127	5.250	5.245	5.257	VV	235	1553	0.06%	0.002%
128	5.274	5.257	5.313	VV	289	4455	0.18%	0.006%
129	5.334	5.313	5.353	PV	287	4300	0.18%	0.005%
130	5.371	5.353	5.386	VV	230	3100	0.13%	0.004%
131	5.408	5.386	5.422	VV	290	3494	0.14%	0.004%
132	5.437	5.422	5.463	VV	291	3198	0.13%	0.004%
133	5.474	5.463	5.490	VV	110	1120	0.05%	0.001%
134	5.498	5.490	5.513	VV	170	1347	0.06%	0.002%
135	5.515	5.513	5.524	VV	110	510	0.02%	0.001%
136	5.556	5.524	5.580	VV	626	8464	0.35%	0.011%
137	5.590	5.580	5.608	VV	200	2101	0.09%	0.003%
138	5.634	5.608	5.644	VV	158	2364	0.10%	0.003%
139	5.647	5.644	5.665	VV	76	699	0.03%	0.001%
140	5.692	5.665	5.736	VV	381	5674	0.23%	0.007%
141	5.756	5.736	5.771	PV	698	8508	0.35%	0.011%

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142	5.786	5.771	5.819	VV	1168	14042	0.58%	0.018%
143	5.833	5.819	5.841	VV	668	6175		
144	5.851	5.841	5.886	VV	623	8638		
145	5.888	5.886	5.894	VV	169	598		
146	5.899	5.894	5.912	VV	176	1233		
147	5.918	5.912	5.925	VV	179	705		
148	5.948	5.925	5.967	VV	204	3122	0.13%	0.004%
149	5.990	5.967	6.002	VV	218	3006	0.12%	0.004%
150	6.021	6.002	6.041	VV	314	4348	0.18%	0.006%
151	6.067	6.041	6.085	VV	364	4496	0.19%	0.006%
152	6.094	6.085	6.099	VV	180	1069	0.04%	0.001%
153	6.120	6.099	6.154	VV	357	5324	0.22%	0.007%
154	6.171	6.154	6.184	VV	261	2675	0.11%	0.003%
155	6.192	6.184	6.201	VV	236	2066	0.09%	0.003%
156	6.206	6.201	6.215	VV	169	1271	0.05%	0.002%
157	6.223	6.215	6.251	VV	220	3298	0.14%	0.004%
158	6.255	6.251	6.269	VV	192	1598	0.07%	0.002%
159	6.290	6.269	6.308	VV	400	6378	0.26%	0.008%
160	6.328	6.308	6.386	VV	2152	36734	1.51%	0.047%
161	6.396	6.386	6.420	VV	496	6270	0.26%	0.008%
162	6.437	6.420	6.443	VV	306	2607	0.11%	0.003%
163	6.445	6.443	6.463	VV	211	1657	0.07%	0.002%
164	6.479	6.463	6.486	VV	200	2217	0.09%	0.003%
165	6.505	6.486	6.535	VV	428	6719	0.28%	0.009%
166	6.560	6.535	6.587	VV	299	6499	0.27%	0.008%
167	6.591	6.587	6.602	VV	265	1773	0.07%	0.002%
168	6.627	6.602	6.667	VV	794	16439	0.68%	0.021%
169	6.678	6.667	6.695	VV	365	5202	0.21%	0.007%
170	6.706	6.695	6.727	VV	466	7051	0.29%	0.009%
171	6.736	6.727	6.761	VV	467	6957	0.29%	0.009%
172	6.791	6.761	6.844	VV	196704	1977840	81.41%	2.522%
173	6.862	6.844	6.900	VV	1560	19248	0.79%	0.025%
174	6.903	6.900	6.913	VV	253	1358	0.06%	0.002%
175	6.920	6.913	6.930	VV	200	1399	0.06%	0.002%
176	6.946	6.930	6.972	VV	247	3831	0.16%	0.005%
177	6.976	6.972	6.981	VV	147	648	0.03%	0.001%
178	6.986	6.981	7.010	VV	189	1684	0.07%	0.002%
179	7.017	7.010	7.024	VV	112	750	0.03%	0.001%
180	7.042	7.024	7.062	VV	189	2458	0.10%	0.003%
181	7.065	7.062	7.070	VV	204	599	0.02%	0.001%
182	7.075	7.070	7.088	VV	210	1051	0.04%	0.001%
183	7.113	7.088	7.154	VV	204	4938	0.20%	0.006%
184	7.158	7.154	7.168	VV	153	694	0.03%	0.001%
185	7.194	7.168	7.207	VV	176	2487	0.10%	0.003%
186	7.211	7.207	7.220	VV	154	689	0.03%	0.001%
187	7.230	7.220	7.235	VV	164	1052	0.04%	0.001%
188	7.239	7.235	7.254	VV	195	1400	0.06%	0.002%
189	7.260	7.254	7.266	VV	100	674	0.03%	0.001%
190	7.287	7.266	7.314	VV	749	12675	0.52%	0.016%
191	7.321	7.314	7.334	VV	397	4048	0.17%	0.005%
192	7.338	7.334	7.346	VV	315	1811	0.07%	0.002%
193	7.359	7.346	7.398	VV	334	6642	0.27%	0.008%
194	7.427	7.398	7.442	VV	907	12158	0.50%	0.016%

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195	7.455	7.442	7.499	VV	686	10850	0.45%	0.014%
196	7.514	7.499	7.526	VV	251	2783		
197	7.540	7.526	7.545	VV	151	1007		
198	7.567	7.545	7.594	VV	864	10607		
199	7.608	7.594	7.622	PV	309	3283		
200	7.626	7.622	7.647	VV	235	2674		
201	7.654	7.647	7.667	VV	273	1846	0.08%	0.002%
202	7.685	7.667	7.713	VV	261	4618	0.19%	0.006%
203	7.741	7.713	7.772	VV	785	12135	0.50%	0.015%
204	7.799	7.772	7.819	VV	382	5148	0.21%	0.007%
205	7.826	7.819	7.831	VV	179	885	0.04%	0.001%
206	7.842	7.831	7.862	VV	225	2965	0.12%	0.004%
207	7.869	7.862	7.886	VV	248	2203	0.09%	0.003%
208	7.923	7.886	7.939	VV	231	4323	0.18%	0.006%
209	7.956	7.939	7.969	VV	195	2509	0.10%	0.003%
210	7.980	7.969	8.005	VV	159	2332	0.10%	0.003%
211	8.029	8.005	8.059	PV	668	10280	0.42%	0.013%
212	8.070	8.059	8.080	VV	155	1220	0.05%	0.002%
213	8.088	8.080	8.095	VV	126	1010	0.04%	0.001%
214	8.112	8.095	8.118	VV	152	1422	0.06%	0.002%
215	8.133	8.118	8.148	VV	250	2631	0.11%	0.003%
216	8.167	8.148	8.183	VV	819	10900	0.45%	0.014%
217	8.198	8.183	8.215	VV	946	12201	0.50%	0.016%
218	8.222	8.215	8.246	VV	313	4682	0.19%	0.006%
219	8.251	8.246	8.269	VV	219	2232	0.09%	0.003%
220	8.272	8.269	8.295	VV	216	1948	0.08%	0.002%
221	8.320	8.295	8.341	VV	493	8094	0.33%	0.010%
222	8.346	8.341	8.359	VV	303	2287	0.09%	0.003%
223	8.374	8.359	8.389	VV	374	4459	0.18%	0.006%
224	8.400	8.389	8.413	VV	276	2859	0.12%	0.004%
225	8.444	8.413	8.476	VV	653	14651	0.60%	0.019%
226	8.481	8.476	8.491	VV	235	1974	0.08%	0.003%
227	8.513	8.491	8.525	VV	503	7409	0.30%	0.009%
228	8.548	8.525	8.562	VV	1188	16111	0.66%	0.021%
229	8.577	8.562	8.588	VV	734	9294	0.38%	0.012%
230	8.624	8.588	8.651	VV	199694	2064404	84.98%	2.632%
231	8.660	8.651	8.688	VV	1589	19660	0.81%	0.025%
232	8.702	8.688	8.709	VV	551	5430	0.22%	0.007%
233	8.733	8.709	8.798	VV	3731	53903	2.22%	0.069%
234	8.803	8.798	8.808	VV	183	883	0.04%	0.001%
235	8.826	8.808	8.842	VV	304	4235	0.17%	0.005%
236	8.847	8.842	8.866	VV	251	2552	0.11%	0.003%
237	8.872	8.866	8.885	VV	175	1439	0.06%	0.002%
238	8.901	8.885	8.910	VV	160	1431	0.06%	0.002%
239	8.914	8.910	8.928	VV	135	710	0.03%	0.001%
240	8.947	8.928	8.959	VV	268	3493	0.14%	0.004%
241	8.972	8.959	8.978	VV	290	2753	0.11%	0.004%
242	8.985	8.978	9.011	VV	457	6575	0.27%	0.008%
243	9.031	9.011	9.061	VV	2610	30430	1.25%	0.039%
244	9.098	9.061	9.123	VV	546	15877	0.65%	0.020%
245	9.127	9.123	9.135	VV	377	2363	0.10%	0.003%
246	9.140	9.135	9.147	VV	378	2582	0.11%	0.003%

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							Instrument : FID_F	
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rteres							Manual IntegrationsAPPROVED	
247	9.156	9.147	9.196	VV	479	8902	0.37%	0.011%
248	9.200	9.196	9.206	VV	185	912		
249	9.229	9.206	9.250	VV	441	7016		
250	9.275	9.250	9.291	VV	665	10398		
251	9.306	9.291	9.332	VV	1388	15916		
252	9.373	9.332	9.418	VV	992	23905		
253	9.449	9.418	9.468	VV	1336	18424	0.76%	0.023%
254	9.486	9.468	9.532	VV	731	11216	0.46%	0.014%
255	9.541	9.532	9.573	PV	144	2107	0.09%	0.003%
256	9.575	9.573	9.581	VV	65	343	0.01%	0.000%
257	9.601	9.581	9.618	VV	633	7009	0.29%	0.009%
258	9.633	9.618	9.659	VV	624	7609	0.31%	0.010%
259	9.686	9.659	9.700	VV	454	5708	0.23%	0.007%
260	9.738	9.700	9.762	VV	529	9924	0.41%	0.013%
261	9.783	9.762	9.803	VV	1253	17900	0.74%	0.023%
262	9.822	9.803	9.858	VV	2713	39691	1.63%	0.051%
263	9.873	9.858	9.888	VV	612	7564	0.31%	0.010%
264	9.903	9.888	9.929	VV	792	13257	0.55%	0.017%
265	9.944	9.929	9.954	VV	459	5008	0.21%	0.006%
266	9.972	9.954	9.992	VV	1174	15924	0.66%	0.020%
267	10.012	9.992	10.025	VV	1015	13436	0.55%	0.017%
268	10.034	10.025	10.052	VV	600	7204	0.30%	0.009%
269	10.100	10.052	10.128	VV	67634	700665	28.84%	0.893%
270	10.146	10.128	10.198	VV	1322	32599	1.34%	0.042%
271	10.234	10.198	10.290	VV	189730	2101583	86.51%	2.680%
272	10.308	10.290	10.322	VV	408	5120	0.21%	0.007%
273	10.341	10.322	10.375	VV	422	6706	0.28%	0.009%
274	10.393	10.375	10.398	VV	194	1603	0.07%	0.002%
275	10.409	10.398	10.432	VV	186	2346	0.10%	0.003%
276	10.461	10.432	10.491	PV	166	2711	0.11%	0.003%
277	10.494	10.491	10.498	PV	25	88	0.00%	0.000%
278	10.512	10.498	10.524	PV	141	1113	0.05%	0.001%
279	10.575	10.524	10.601	VV	1994	26444	1.09%	0.034%
280	10.623	10.601	10.642	VV	542	7018	0.29%	0.009%
281	10.681	10.642	10.694	VV	776	13494	0.56%	0.017%
282	10.710	10.694	10.733	VV	1063	14740	0.61%	0.019%
283	10.750	10.733	10.773	VV	682	8671	0.36%	0.011%
284	10.786	10.773	10.805	VV	415	5511	0.23%	0.007%
285	10.828	10.805	10.859	VV	887	17180	0.71%	0.022%
286	10.876	10.859	10.896	VV	2482	30163	1.24%	0.038%
287	10.900	10.896	10.912	VV	635	5710	0.24%	0.007%
288	10.931	10.912	10.950	VV	851	12965	0.53%	0.017%
289	10.974	10.950	10.985	VV	1205	18066	0.74%	0.023%
290	10.996	10.985	11.010	VV	1150	13338	0.55%	0.017%
291	11.031	11.010	11.051	VV	2004	32447	1.34%	0.041%
292	11.059	11.051	11.068	VV	906	7949	0.33%	0.010%
293	11.073	11.068	11.093	VV	743	8485	0.35%	0.011%
294	11.101	11.093	11.115	VV	494	5539	0.23%	0.007%
295	11.127	11.115	11.149	VV	735	9642	0.40%	0.012%
296	11.165	11.149	11.179	VV	372	4971	0.20%	0.006%
297	11.198	11.179	11.207	VV	919	10025	0.41%	0.013%
298	11.230	11.207	11.279	VV	36233	401411	16.52%	0.512%
299	11.304	11.279	11.369	VV	8450	108337	4.46%	0.138%

Manual IntegrationsAPPROVED

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300	11.376	11.369	11.385	VV	255	2169	0.09%	0.003%
301	11.405	11.385	11.411	VV	346	4737		
302	11.415	11.411	11.446	VV	330	4802		
303	11.454	11.446	11.459	VV	168	1105		
304	11.482	11.459	11.500	VV	879	12538		
305	11.517	11.500	11.563	VV	2316	31177		
306	11.610	11.563	11.625	PV	509	10914	0.45%	0.014%
307	11.680	11.625	11.731	VV	186678	2165461	89.14%	2.761%
308	11.763	11.731	11.800	VV	2473	57937	2.38%	0.074%
309	11.835	11.800	11.855	VV	1312	20464	0.84%	0.026%
310	11.879	11.855	11.902	VV	1285	23447	0.97%	0.030%
311	11.924	11.902	11.950	VV	2451	35807	1.47%	0.046%
312	11.952	11.950	11.972	VV	847	9326	0.38%	0.012%
313	11.989	11.972	12.009	VV	1043	16086	0.66%	0.021%
314	12.036	12.009	12.050	VV	5248	63039	2.59%	0.080%
315	12.066	12.050	12.112	VV	6743	91209	3.75%	0.116%
316	12.151	12.112	12.170	VV	5623	101268	4.17%	0.129%
317	12.184	12.170	12.198	VV	3695	44487	1.83%	0.057%
318	12.214	12.198	12.250	VV	4922	67653	2.78%	0.086%
319	12.254	12.250	12.270	VV	469	4189	0.17%	0.005%
320	12.294	12.270	12.322	VV	791	17143	0.71%	0.022%
321	12.351	12.322	12.369	VV	1570	27592	1.14%	0.035%
322	12.391	12.369	12.414	VV	4187	55839	2.30%	0.071%
323	12.451	12.414	12.482	VV	1722	49543	2.04%	0.063%
324	12.507	12.482	12.531	VV	4329	63409	2.61%	0.081%
325	12.537	12.531	12.553	VV	907	10657	0.44%	0.014%
326	12.565	12.553	12.579	VV	930	12716	0.52%	0.016%
327	12.601	12.579	12.675	VV	57122	754647	31.06%	0.962%
328	12.682	12.675	12.699	VV	1684	21596	0.89%	0.028%
329	12.710	12.699	12.730	VV	1642	25320	1.04%	0.032%
330	12.738	12.730	12.745	VV	1316	11954	0.49%	0.015%
331	12.758	12.745	12.777	VV	1636	26459	1.09%	0.034%
332	12.780	12.777	12.801	VV	1303	13846	0.57%	0.018%
333	12.825	12.801	12.841	VV	2176	36112	1.49%	0.046%
334	12.846	12.841	12.865	VV	1518	15142	0.62%	0.019%
335	12.885	12.865	12.916	VV	3618	63007	2.59%	0.080%
336	12.936	12.916	12.956	VV	4453	66330	2.73%	0.085%
337	12.993	12.956	13.026	VV	182799	2218905	91.34%	2.829%
338	13.054	13.026	13.092	VV	61934	717014	29.51%	0.914%
339	13.107	13.092	13.134	VV	1345	23496	0.97%	0.030%
340	13.157	13.134	13.162	VV	731	9278	0.38%	0.012%
341	13.191	13.162	13.203	VV	1931	29833	1.23%	0.038%
342	13.211	13.203	13.227	VV	1648	20856	0.86%	0.027%
343	13.243	13.227	13.285	VV	2755	65600	2.70%	0.084%
344	13.291	13.285	13.325	VV	1098	19249	0.79%	0.025%
345	13.353	13.325	13.380	VV	53198	597616	24.60%	0.762%
346	13.409	13.380	13.425	VV	5292	77249	3.18%	0.099%
347	13.440	13.425	13.473	VV	5460	68408	2.82%	0.087%
348	13.497	13.473	13.506	VV	737	10622	0.44%	0.014%
349	13.526	13.506	13.537	VV	2248	27219	1.12%	0.035%
350	13.551	13.537	13.579	VV	2732	36552	1.50%	0.047%
351	13.620	13.579	13.645	PV	4082	75937	3.13%	0.097%

Instrument :

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PIT#4MS

Manual IntegrationsAPPROVED

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352	13.652	13.645	13.669	VV	1408	17711	0.73%	0.023%
353	13.688	13.669	13.709	VV	2431	44259	Manual Integrat	
354	13.725	13.709	13.737	VV	1641	24575		
355	13.751	13.737	13.768	VV	2378	32394		
356	13.783	13.768	13.788	VV	1550	16560	0.73%	0.023%
357	13.814	13.788	13.827	VV	4120	65570	2.37%	0.073%
358	13.839	13.827	13.894	VV	5250	100434	4.13%	0.128%
359	13.943	13.894	13.975	VV	6393	130954	5.39%	0.167%
360	14.012	13.975	14.030	VV	1554	31207	1.28%	0.040%
361	14.052	14.030	14.072	VV	3288	47713	1.96%	0.061%
362	14.091	14.072	14.116	VV	4680	57635	2.37%	0.073%
363	14.140	14.116	14.162	VV	2006	38454	1.58%	0.049%
364	14.195	14.162	14.242	VV	170666	2180505	89.76%	2.780%
365	14.263	14.242	14.300	VV	3464	50804	2.09%	0.065%
366	14.336	14.300	14.355	VV	1087	19324	0.80%	0.025%
367	14.373	14.355	14.386	VV	583	7655	0.32%	0.010%
368	14.403	14.386	14.414	VV	658	8529	0.35%	0.011%
369	14.426	14.414	14.450	VV	739	11409	0.47%	0.015%
370	14.453	14.450	14.461	VV	452	2317	0.10%	0.003%
371	14.475	14.461	14.495	VV	578	6091	0.25%	0.008%
372	14.501	14.495	14.514	VV	209	1479	0.06%	0.002%
373	14.529	14.514	14.545	PV	191	2802	0.12%	0.004%
374	14.555	14.545	14.572	VV	407	3922	0.16%	0.005%
375	14.591	14.572	14.609	VV	1783	24214	1.00%	0.031%
376	14.639	14.609	14.659	VV	1358	32702	1.35%	0.042%
377	14.680	14.659	14.736	VV	5364	77481	3.19%	0.099%
378	14.759	14.736	14.819	VV	3280	66297	2.73%	0.085%
379	14.857	14.819	14.880	VV	3777	78029	3.21%	0.099%
380	14.886	14.880	14.897	VV	1202	11640	0.48%	0.015%
381	14.923	14.897	14.945	VV	7489	103352	4.25%	0.132%
382	14.981	14.945	15.010	VV	5956	99856	4.11%	0.127%
383	15.045	15.010	15.062	VV	953	17169	0.71%	0.022%
384	15.096	15.062	15.140	VV	87333	1203938	49.56%	1.535%
385	15.151	15.140	15.167	VV	971	12635	0.52%	0.016%
386	15.186	15.167	15.206	VV	2455	29525	1.22%	0.038%
387	15.235	15.206	15.255	VV	27936	329812	13.58%	0.421%
388	15.302	15.255	15.336	VV	169259	2417783	99.52%	3.083%
389	15.343	15.336	15.361	VV	1151	13664	0.56%	0.017%
390	15.398	15.361	15.426	VV	5472	88158	3.63%	0.112%
391	15.442	15.426	15.456	VV	1348	21878	0.90%	0.028%
392	15.474	15.456	15.512	VV	2329	41362	1.70%	0.053%
393	15.538	15.512	15.559	PV	2633	38390	1.58%	0.049%
394	15.577	15.559	15.634	VV	2639	55789	2.30%	0.071%
395	15.686	15.634	15.747	VV	31547	550229	22.65%	0.702%
396	15.754	15.747	15.764	VV	485	3606	0.15%	0.005%
397	15.782	15.764	15.797	VV	585	8892	0.37%	0.011%
398	15.823	15.797	15.856	VV	4928	94333	3.88%	0.120%
399	15.909	15.856	15.931	VV	6553	139586	5.75%	0.178%
400	15.949	15.931	15.970	VV	3223	41148	1.69%	0.052%
401	15.993	15.970	16.009	VV	803	13644	0.56%	0.017%
402	16.018	16.009	16.023	VV	661	5184	0.21%	0.007%
403	16.074	16.023	16.107	VV	3027	82102	3.38%	0.105%
404	16.149	16.107	16.178	VV	1545	29604	1.22%	0.038%

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405	16.205	16.178	16.223	PV	2141	31688	1.30%	0.040%
406	16.236	16.223	16.252	VV	1434	20664		
407	16.268	16.252	16.288	VV	1545	24115		
408	16.326	16.288	16.370	VV	155198	2069750	85	
409	16.393	16.370	16.408	PV	733	9947		
410	16.416	16.408	16.421	VV	438	2383		
411	16.449	16.421	16.474	VV	525	10528	0.43%	0.013%
412	16.521	16.474	16.539	PV	2182	36877	1.52%	0.047%
413	16.546	16.539	16.561	VV	807	7364	0.30%	0.009%
414	16.581	16.561	16.598	VV	1686	19031	0.78%	0.024%
415	16.621	16.598	16.625	VV	1401	15778	0.65%	0.020%
416	16.631	16.625	16.647	VV	1396	12767	0.53%	0.016%
417	16.662	16.647	16.672	VV	932	9026	0.37%	0.012%
418	16.704	16.672	16.748	VV	6799	149437	6.15%	0.191%
419	16.799	16.748	16.821	VV	29563	486198	20.01%	0.620%
420	16.823	16.821	16.854	VV	12023	112470	4.63%	0.143%
421	16.889	16.854	16.907	PV	1719	30257	1.25%	0.039%
422	16.928	16.907	16.953	VV	5730	74340	3.06%	0.095%
423	16.970	16.953	17.002	VV	1540	28656	1.18%	0.037%
424	17.057	17.002	17.065	VV	949	25137	1.03%	0.032%
425	17.120	17.065	17.147	VV	17413	273179	11.24%	0.348%
426	17.178	17.147	17.224	VV	24264	304996	12.55%	0.389%
427	17.278	17.224	17.314	PV	155690	2132991	87.80%	2.720%
428	17.330	17.314	17.341	VV	2276	30039	1.24%	0.038%
429	17.352	17.341	17.376	VV	2049	26615	1.10%	0.034%
430	17.424	17.376	17.431	VV	1386	27214	1.12%	0.035%
431	17.432	17.431	17.462	VV	1287	12418	0.51%	0.016%
432	17.485	17.462	17.502	VV	975	11389	0.47%	0.015%
433	17.547	17.502	17.577	VV	2354	60489	2.49%	0.077%
434	17.582	17.577	17.597	VV	1050	9781	0.40%	0.012%
435	17.603	17.597	17.609	VV	614	3432	0.14%	0.004%
436	17.653	17.609	17.691	VV	6402	137855	5.67%	0.176%
437	17.729	17.691	17.752	VV	7020	133782	5.51%	0.171%
438	17.770	17.752	17.785	VV	1591	21793	0.90%	0.028%
439	17.810	17.785	17.817	VV	1347	21415	0.88%	0.027%
440	17.841	17.817	17.869	VV	2411	50484	2.08%	0.064%
441	17.881	17.869	17.886	VV	975	7853	0.32%	0.010%
442	17.891	17.886	17.895	VV	902	4188	0.17%	0.005%
443	17.904	17.895	17.924	VV	924	12143	0.50%	0.015%
444	17.961	17.924	17.984	VV	1087	25458	1.05%	0.032%
445	17.999	17.984	18.003	PV	611	3935	0.16%	0.005%
446	18.026	18.003	18.038	VV	855	11987	0.49%	0.015%
447	18.064	18.038	18.083	VV	2245	35263	1.45%	0.045%
448	18.170	18.083	18.203	VV	151291	2150698	88.53%	2.742%
449	18.208	18.203	18.211	VV	963	3516	0.14%	0.004%
450	18.257	18.211	18.297	VV	4154	118813	4.89%	0.152%
451	18.320	18.297	18.341	VV	5507	101399	4.17%	0.129%
452	18.347	18.341	18.377	VV	3976	60095	2.47%	0.077%
453	18.401	18.377	18.422	VV	3385	58955	2.43%	0.075%
454	18.460	18.422	18.476	VV	5662	89958	3.70%	0.115%
455	18.493	18.476	18.507	VV	5242	79258	3.26%	0.101%
456	18.545	18.507	18.572	VV	28379	590473	24.31%	0.753%

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457	18.592	18.572	18.620	VV	12285	211173	8.69%	0.269%	
458	18.634	18.620	18.647	VV	3059	40528			
459	18.685	18.647	18.701	VV	8206	148225			
460	18.716	18.701	18.740	VV	6417	104669			
461	18.746	18.740	18.776	VV	2234	33111			
462	18.805	18.776	18.836	VV	18453	262945	10.15%	0.047%	
463	18.856	18.836	18.862	VV	2563	36466	1.50%	0.047%	
464	18.889	18.862	18.908	VV	3792	81886	3.37%	0.104%	
465	18.938	18.908	18.961	VV	6824	130676	5.38%	0.167%	
466	19.005	18.961	19.050	VV	142376	2071160	85.25%	2.641%	
467	19.067	19.050	19.076	VV	3192	43339	1.78%	0.055%	
468	19.114	19.076	19.146	VV	6763	202488	8.33%	0.258%	
469	19.167	19.146	19.190	VV	4786	113284	4.66%	0.144%	
470	19.211	19.190	19.224	VV	4037	77637	3.20%	0.099%	
471	19.241	19.224	19.262	VV	5135	104401	4.30%	0.133%	
472	19.290	19.262	19.295	VV	5511	105064	4.32%	0.134%	
473	19.301	19.295	19.305	VV	5443	32121	1.32%	0.041%	
474	19.366	19.305	19.392	VV	23363	607049	24.99%	0.774%	
475	19.406	19.392	19.439	VV	12707	278092	11.45%	0.355%	
476	19.450	19.439	19.456	VV	6857	64448	2.65%	0.082%	
477	19.488	19.456	19.506	VV	8504	226577	9.33%	0.289%	
478	19.513	19.506	19.525	VV	7946	89755	3.69%	0.114%	
479	19.541	19.525	19.561	VV	7848	155167	6.39%	0.198%	
480	19.604	19.561	19.620	VV	9302	286298	11.78%	0.365%	
481	19.648	19.620	19.659	VV	9618	212111	8.73%	0.270%	
482	19.664	19.659	19.689	VV	9429	157091	6.47%	0.200%	
483	19.700	19.689	19.722	VV	9633	171335	7.05%	0.218%	
484	19.728	19.722	19.735	VV	8044	60091	2.47%	0.077%	
485	19.748	19.735	19.753	VV	8443	88006	3.62%	0.112%	
486	19.791	19.753	19.831	VV	123025	2074904	85.41%	2.646%	
487	19.855	19.831	19.870	VV	12436	269341	11.09%	0.343%	
488	19.900	19.870	19.935	VV	14417	466085	19.19%	0.594%	
489	19.965	19.935	19.993	VV	19414	515424	21.22%	0.657%	
490	20.035	19.993	20.061	VV	18429	600513	24.72%	0.766%	
491	20.084	20.061	20.107	VV	15754	407837	16.79%	0.520%	
492	20.147	20.107	20.192	VV	23848	940412	38.71%	1.199%	
493	20.202	20.192	20.207	VV	14767	132800	5.47%	0.169%	
494	20.221	20.207	20.227	VV	14985	179366	7.38%	0.229%	
495	20.255	20.227	20.265	VV	16035	348844	14.36%	0.445%	
496	20.268	20.265	20.284	VV	15720	174040	7.16%	0.222%	
497	20.344	20.284	20.367	VV	26099	1018256	41.91%	1.298%	
498	20.414	20.367	20.425	VV	24612	778794	32.06%	0.993%	
499	20.434	20.425	20.455	VV	24469	413346	17.01%	0.527%	
500	20.483	20.455	20.494	VV	22177	500042	20.58%	0.638%	
501	20.534	20.494	20.576	VV	115860	2429393	100.00%	3.098%	
502	20.612	20.576	20.621	VV	24350	630526	25.95%	0.804%	
503	20.625	20.621	20.627	VV	23727	88559	3.65%	0.113%	
504	20.650	20.627	20.653	VV	24382	378612	15.58%	0.483%	
505	20.697	20.653	20.735	VV	30375	1280153	52.69%	1.632%	
506	20.754	20.735	20.768	VV	24772	488465	20.11%	0.623%	
507	20.793	20.768	20.797	VV	24721	415006	17.08%	0.529%	
508	20.810	20.797	20.822	VV	25004	375721	15.47%	0.479%	
509	20.842	20.822	20.860	VV	25363	559382	23.03%	0.713%	

Instrument :

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510	20.896	20.860	20.922	VV	27175	974229	40.10%	1.242%
511	20.927	20.922	20.948	VV	24860	380915	15.86%	0.305%
512	20.955	20.948	20.969	VV	24375	297056	12.24%	0.240%
513	20.973	20.969	20.983	VV	23411	201373	8.61%	0.197%
514	20.991	20.983	21.004	VV	23699	287229	11.86%	0.240%
515	21.024	21.004	21.042	VV	23312	519763	21.86%	0.292%
516	21.047	21.042	21.056	VV	22464	183875	7.57%	0.234%
517	21.067	21.056	21.074	VV	22224	239453	9.86%	0.305%
518	21.079	21.074	21.088	VV	21982	188087	7.74%	0.240%
519	21.112	21.088	21.128	VV	22247	518654	21.35%	0.661%
520	21.136	21.128	21.146	VV	21533	229342	9.44%	0.292%
521	21.155	21.146	21.165	VV	21628	248643	10.23%	0.317%
522	21.177	21.165	21.185	VV	21629	254537	10.48%	0.325%
523	21.200	21.185	21.243	VV	21489	716754	29.50%	0.914%
524	21.248	21.243	21.257	VV	19146	154303	6.35%	0.197%
525	21.300	21.257	21.354	VV	85271	2304863	94.87%	2.939%
526	21.380	21.354	21.401	VV	17856	480466	19.78%	0.613%
527	21.405	21.401	21.412	VV	17013	117954	4.86%	0.150%
528	21.417	21.412	21.447	VV	16655	331573	13.65%	0.423%
529	21.452	21.447	21.464	VV	15755	155986	6.42%	0.199%
530	21.480	21.464	21.512	VV	15959	449087	18.49%	0.573%
531	21.527	21.512	21.536	VV	15221	214361	8.82%	0.273%
532	21.542	21.536	21.547	VV	14727	98053	4.04%	0.125%
533	21.554	21.547	21.562	VV	14760	130316	5.36%	0.166%
534	21.571	21.562	21.577	VV	14928	138237	5.69%	0.176%
535	21.589	21.577	21.594	VV	14981	145609	5.99%	0.186%
536	21.599	21.594	21.637	VV	14637	349854	14.40%	0.446%
537	21.646	21.637	21.672	VV	12436	248530	10.23%	0.317%
538	21.679	21.672	21.686	VV	11679	99027	4.08%	0.126%
539	21.690	21.686	21.707	VV	10959	130915	5.39%	0.167%
540	21.715	21.707	21.722	VV	10960	98175	4.04%	0.125%
541	21.764	21.722	21.799	VV	14518	586845	24.16%	0.748%
542	21.810	21.799	21.847	VV	11667	306275	12.61%	0.391%
543	21.854	21.847	21.867	VV	9744	119767	4.93%	0.153%
544	21.871	21.867	21.908	VV	9480	214144	8.81%	0.273%
545	21.938	21.908	21.952	VV	9217	229240	9.44%	0.292%
546	21.991	21.952	22.038	VV	9126	398412	16.40%	0.508%
547	22.042	22.038	22.051	VV	5384	41378	1.70%	0.053%
548	22.081	22.051	22.119	VV	6673	223832	9.21%	0.285%
549	22.168	22.119	22.200	VV	6656	270965	11.15%	0.346%
550	22.265	22.200	22.372	VV	54426	1601670	65.93%	2.042%
551	22.383	22.372	22.406	VV	1074	15864	0.65%	0.020%
552	22.411	22.406	22.415	VV	301	860	0.04%	0.001%
553	22.424	22.415	22.429	PV	407	1965	0.08%	0.003%
554	22.436	22.429	22.441	VV	253	1205	0.05%	0.002%
Sum of corrected areas:							78421838	

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:	07/01/25	
Project:	98 Morse Ave Nutley		Date Received:	07/01/25	
Client Sample ID:	PIT#4MSD		SDG No.:	Q2486	
Lab Sample ID:	Q2473-04MSD		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	90.7	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016141.D	1	07/10/25 09:00	07/10/25 17:12	PB168785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	27100		423	3120	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.5		37 - 130	62%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
 Data File : FF016141.D
 Signal(s) : FID2B.ch
 Acq On : 10 Jul 2025 17:12
 Operator : YP\AJ
 Sample : Q2473-04MSD
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PIT#4MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/11/2025
 Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
 Quant Time: Jul 11 02:58:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 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...	15.097	1213604	12.463 ug/ml
Target Compounds			
1) N-OCTANE	2.075	1639039	13.140 ug/ml
2) N-DECANE	4.613	1935325	15.551 ug/ml
3) N-DODECANE	6.790	2007243	16.472 ug/ml
4) N-TETRADECANE	8.624	2067707	17.199 ug/ml
5) N-HEXADECANE	10.234	2117632	18.205 ug/ml
6) N-OCTADECANE	11.680	2154512	18.540 ug/ml
7) N-EICOSANE	12.993	2212363	18.917 ug/ml
8) N-DOCOSANE	14.195	2183379	19.473 ug/ml
10) N-TETRACOSANE	15.302	2432129	21.929 ug/ml
11) N-HEXACOSANE	16.326	2103317	19.588 ug/ml
12) N-OCTACOSANE	17.279	2175161	20.228 ug/mlm
13) N-TRIACONTANE	18.171	2130974	19.675 ug/ml
14) N-DOTRIACONTANE	19.005	1912980	18.242 ug/ml
15) N-TETRATRIACONTANE	19.792	1666913	17.375 ug/ml
16) N-HEXATRIACONTANE	20.535	1410097	16.903 ug/mlm
17) N-OCTATRIACONTANE	21.301	1302802	17.690 ug/ml
18) N-TETRACONTANE	22.263	1307784	19.227 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025\
Data File : FF016141.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 17:12
Operator : YP\AJ
Sample : Q2473-04MSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

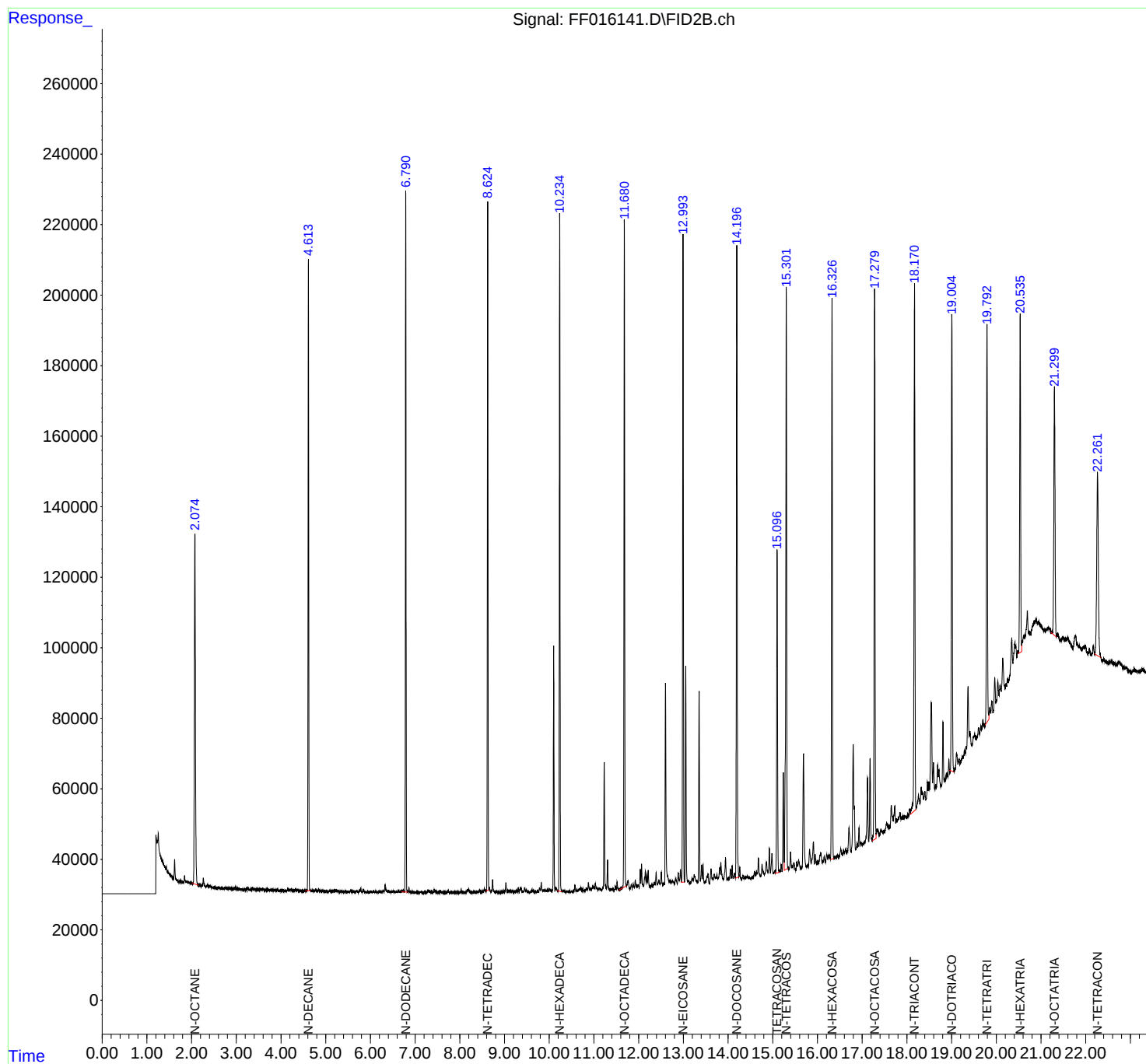
Instrument :
FID_F
ClientSampleId :
PIT#4MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/11/2025

Integration File: autoint1.e
Quant Time: Jul 11 02:58:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

ClientSampleId :

PIT#4MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071025.M
Data File : FF016141.D
Signal(s) : FID2B.ch
Acq On : 10 Jul 2025 17:12
Sample : Q2473-04MSD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.346	1.339	1.429	VV	9434	435727	17.61%	0.546%
2	1.437	1.429	1.595	VV	7663	543483	21.97%	0.680%
3	1.622	1.595	1.717	VV	9632	335094	13.54%	0.420%
4	1.725	1.717	1.740	VV	3389	47098	1.90%	0.059%
5	1.753	1.740	1.773	VV	3481	63832	2.58%	0.080%
6	1.775	1.773	1.779	VV	3193	12697	0.51%	0.016%
7	1.785	1.779	1.811	VV	3280	59596	2.41%	0.075%
8	1.816	1.811	1.822	VV	3071	19897	0.80%	0.025%
9	1.843	1.822	1.883	VV	4871	132859	5.37%	0.166%
10	1.895	1.883	1.945	VV	3240	113662	4.59%	0.142%
11	1.950	1.945	1.994	VV	3047	83682	3.38%	0.105%
12	2.002	1.994	2.007	VV	2795	20054	0.81%	0.025%
13	2.013	2.007	2.036	VV	2838	46681	1.89%	0.058%
14	2.075	2.036	2.155	VV	101765	1810337	73.17%	2.267%
15	2.159	2.155	2.170	VV	2190	20004	0.81%	0.025%
16	2.175	2.170	2.183	VV	2173	15432	0.62%	0.019%
17	2.188	2.183	2.206	VV	2155	28400	1.15%	0.036%
18	2.207	2.206	2.212	VV	2016	7664	0.31%	0.010%
19	2.235	2.212	2.241	VV	2072	33564	1.36%	0.042%
20	2.243	2.241	2.248	VV	1947	8683	0.35%	0.011%
21	2.263	2.248	2.337	VV	4095	118738	4.80%	0.149%
22	2.356	2.337	2.393	VV	2254	62027	2.51%	0.078%
23	2.408	2.393	2.449	VV	1880	54451	2.20%	0.068%
24	2.453	2.449	2.478	VV	1454	23430	0.95%	0.029%
25	2.480	2.478	2.490	VV	1408	10158	0.41%	0.013%
26	2.494	2.490	2.517	VV	1424	21648	0.88%	0.027%
27	2.522	2.517	2.531	VV	1365	10627	0.43%	0.013%
28	2.533	2.531	2.543	VV	1290	9530	0.39%	0.012%
29	2.549	2.543	2.565	VV	1274	16249	0.66%	0.020%
30	2.569	2.565	2.593	VV	1248	20570	0.83%	0.026%
31	2.595	2.593	2.629	VV	1253	24594	0.99%	0.031%
32	2.637	2.629	2.643	VV	1219	9627	0.39%	0.012%
33	2.657	2.643	2.675	VV	1239	22307	0.90%	0.028%
34	2.679	2.675	2.710	VV	1170	22427	0.91%	0.028%
35	2.716	2.710	2.721	VV	1076	6859	0.28%	0.009%
36	2.725	2.721	2.745	VV	1101	15224	0.62%	0.019%

37	2.763	2.745	2.793	VV	1218	31713	1.28%	0.040%
38	2.796	2.793	2.808	VV	996	8179		
39	2.811	2.808	2.825	VV	978	9486		
40	2.850	2.825	2.882	VV	1060	32235		
41	2.895	2.882	2.915	VV	991	17482		
42	2.917	2.915	2.940	VV	927	12363		
43	2.956	2.940	2.963	VV	934	11547	0.47%	0.014%
44	2.991	2.963	3.029	VV	1210	37500	1.52%	0.047%
45	3.043	3.029	3.065	VV	933	17440	0.70%	0.022%
46	3.084	3.065	3.113	VV	860	20488	0.83%	0.026%
47	3.116	3.113	3.129	VV	703	6731	0.27%	0.008%
48	3.137	3.129	3.152	VV	672	8464	0.34%	0.011%
49	3.159	3.152	3.180	VV	608	9940	0.40%	0.012%
50	3.201	3.180	3.228	VV	681	17274	0.70%	0.022%
51	3.255	3.228	3.298	VV	1072	29988	1.21%	0.038%
52	3.303	3.298	3.308	VV	578	3288	0.13%	0.004%
53	3.316	3.308	3.333	VV	580	7880	0.32%	0.010%
54	3.341	3.333	3.346	VV	602	4534	0.18%	0.006%
55	3.360	3.346	3.390	VV	981	19803	0.80%	0.025%
56	3.393	3.390	3.424	VV	628	11078	0.45%	0.014%
57	3.433	3.424	3.440	VV	561	5054	0.20%	0.006%
58	3.448	3.440	3.458	VV	603	5787	0.23%	0.007%
59	3.468	3.458	3.473	VV	555	4665	0.19%	0.006%
60	3.478	3.473	3.491	VV	536	5576	0.23%	0.007%
61	3.493	3.491	3.509	VV	583	5495	0.22%	0.007%
62	3.513	3.509	3.523	VV	554	4677	0.19%	0.006%
63	3.527	3.523	3.540	VV	591	5329	0.22%	0.007%
64	3.545	3.540	3.555	VV	593	5063	0.20%	0.006%
65	3.569	3.555	3.576	VV	621	7264	0.29%	0.009%
66	3.580	3.576	3.634	VV	597	16489	0.67%	0.021%
67	3.645	3.634	3.663	VV	428	6050	0.24%	0.008%
68	3.666	3.663	3.672	VV	395	2042	0.08%	0.003%
69	3.697	3.672	3.707	VV	533	8134	0.33%	0.010%
70	3.721	3.707	3.748	VV	441	8911	0.36%	0.011%
71	3.752	3.748	3.761	VV	309	1878	0.08%	0.002%
72	3.766	3.761	3.785	VV	308	3558	0.14%	0.004%
73	3.795	3.785	3.818	VV	356	5493	0.22%	0.007%
74	3.832	3.818	3.838	VV	223	2176	0.09%	0.003%
75	3.845	3.838	3.855	VV	146	1663	0.07%	0.002%
76	3.867	3.855	3.900	VV	264	5117	0.21%	0.006%
77	3.922	3.900	3.932	VV	272	4170	0.17%	0.005%
78	3.935	3.932	3.962	VV	246	2943	0.12%	0.004%
79	3.965	3.962	3.978	VV	141	1068	0.04%	0.001%
80	3.986	3.978	3.995	PBA	119	840	0.03%	0.001%
81	4.037	3.995	4.042	BV	157	751	0.03%	0.001%
82	4.044	4.042	4.067	VV	148	1081	0.04%	0.001%
83	4.070	4.067	4.074	PV	74	322	0.01%	0.000%
84	4.087	4.074	4.097	VV	119	1020	0.04%	0.001%
85	4.101	4.097	4.110	VV	85	468	0.02%	0.001%
86	4.149	4.110	4.186	PV	713	13463	0.54%	0.017%
87	4.189	4.186	4.200	VV	288	1817	0.07%	0.002%
88	4.217	4.200	4.235	VV	622	8597	0.35%	0.011%
89	4.239	4.235	4.243	VV	316	1443	0.06%	0.002%

Instrument :

FID_F

ClientSampleId :

PIT#4MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

							Instrument : FID_F	
							ClientSampleId : PIT#4MSD	
90	4.247	4.243	4.296	VV	343	6453	0.26%	0.008%
91	4.321	4.296	4.348	VV	425	9704	Manual IntegrationsAPPROVED	
92	4.357	4.348	4.362	VV	363	2493		
93	4.377	4.362	4.397	VV	376	5023		
94	4.417	4.397	4.470	VV	224	6324		
95	4.481	4.470	4.510	VV	172	2291		
96	4.525	4.510	4.533	VV	181	1727	0.07%	0.002%
97	4.537	4.533	4.548	VV	213	1227	0.05%	0.002%
98	4.565	4.548	4.586	VV	374	5661	0.23%	0.007%
99	4.613	4.586	4.674	VV	179284	1944926	78.61%	2.435%
100	4.684	4.674	4.692	VV	309	2743	0.11%	0.003%
101	4.698	4.692	4.728	VV	285	4376	0.18%	0.005%
102	4.740	4.728	4.754	VV	257	3113	0.13%	0.004%
103	4.779	4.754	4.815	VV	821	12268	0.50%	0.015%
104	4.844	4.815	4.877	VV	529	10801	0.44%	0.014%
105	4.882	4.877	4.886	VV	163	758	0.03%	0.001%
106	4.899	4.886	4.913	VV	278	2729	0.11%	0.003%
107	4.923	4.913	4.950	VV	301	3361	0.14%	0.004%
108	4.976	4.950	4.999	VV	239	4697	0.19%	0.006%
109	5.008	4.999	5.018	VV	175	1575	0.06%	0.002%
110	5.021	5.018	5.052	VV	154	2207	0.09%	0.003%
111	5.069	5.052	5.076	VV	190	1890	0.08%	0.002%
112	5.081	5.076	5.097	VV	218	1592	0.06%	0.002%
113	5.117	5.097	5.124	VV	237	2867	0.12%	0.004%
114	5.129	5.124	5.138	VV	279	1759	0.07%	0.002%
115	5.158	5.138	5.171	VV	288	4616	0.19%	0.006%
116	5.176	5.171	5.189	VV	308	2767	0.11%	0.003%
117	5.195	5.189	5.200	VV	322	1981	0.08%	0.002%
118	5.205	5.200	5.212	VV	387	2247	0.09%	0.003%
119	5.232	5.212	5.253	VV	481	8024	0.32%	0.010%
120	5.267	5.253	5.290	VV	300	4143	0.17%	0.005%
121	5.295	5.290	5.311	VV	150	978	0.04%	0.001%
122	5.331	5.311	5.345	VV	267	3691	0.15%	0.005%
123	5.348	5.345	5.353	VV	157	701	0.03%	0.001%
124	5.356	5.353	5.359	VV	197	547	0.02%	0.001%
125	5.368	5.359	5.397	VV	200	2738	0.11%	0.003%
126	5.420	5.397	5.425	VV	209	2525	0.10%	0.003%
127	5.431	5.425	5.449	VV	268	2378	0.10%	0.003%
128	5.453	5.449	5.469	VV	118	1084	0.04%	0.001%
129	5.475	5.469	5.482	VV	70	402	0.02%	0.001%
130	5.499	5.482	5.527	VV	152	2357	0.10%	0.003%
131	5.532	5.527	5.537	VV	88	443	0.02%	0.001%
132	5.557	5.537	5.581	VV	674	7911	0.32%	0.010%
133	5.591	5.581	5.614	VV	250	2662	0.11%	0.003%
134	5.623	5.614	5.660	VV	161	2316	0.09%	0.003%
135	5.689	5.660	5.707	VV	462	5728	0.23%	0.007%
136	5.712	5.707	5.728	VV	134	1025	0.04%	0.001%
137	5.756	5.728	5.769	PV	750	8366	0.34%	0.010%
138	5.786	5.769	5.816	VV	1217	13457	0.54%	0.017%
139	5.832	5.816	5.841	VV	756	6560	0.27%	0.008%
140	5.847	5.841	5.880	VV	586	7745	0.31%	0.010%
141	5.891	5.880	5.900	VV	157	1335	0.05%	0.002%

142	5.946	5.900	5.971	VV	199	4279	0.17%	0.005%
143	5.979	5.971	5.985	VV	161	1025		
144	5.991	5.985	5.997	VV	161	796		
145	6.001	5.997	6.008	VV	184	1078		
146	6.020	6.008	6.036	VV	287	3046		
147	6.041	6.036	6.052	VV	140	1000		
148	6.072	6.052	6.103	VV	315	5659	0.23%	0.007%
149	6.122	6.103	6.161	VV	406	5590	0.23%	0.007%
150	6.196	6.161	6.249	PV	283	9719	0.39%	0.012%
151	6.290	6.249	6.308	VV	521	9592	0.39%	0.012%
152	6.328	6.308	6.384	VV	2262	37455	1.51%	0.047%
153	6.399	6.384	6.423	VV	512	7492	0.30%	0.009%
154	6.435	6.423	6.458	VV	257	3632	0.15%	0.005%
155	6.504	6.458	6.537	VV	448	11279	0.46%	0.014%
156	6.564	6.537	6.567	VV	250	3805	0.15%	0.005%
157	6.572	6.567	6.575	VV	282	1144	0.05%	0.001%
158	6.580	6.575	6.603	VV	293	3788	0.15%	0.005%
159	6.625	6.603	6.658	VV	701	12393	0.50%	0.016%
160	6.682	6.658	6.695	VV	337	5393	0.22%	0.007%
161	6.704	6.695	6.720	VV	423	5145	0.21%	0.006%
162	6.734	6.720	6.758	VV	489	7692	0.31%	0.010%
163	6.790	6.758	6.840	VV	199123	2012962	81.36%	2.520%
164	6.862	6.840	6.889	VV	1495	17800	0.72%	0.022%
165	6.893	6.889	6.900	VV	249	1236	0.05%	0.002%
166	6.904	6.900	6.930	VV	225	3185	0.13%	0.004%
167	6.940	6.930	6.968	VV	305	4331	0.18%	0.005%
168	6.979	6.968	7.011	VV	208	2412	0.10%	0.003%
169	7.038	7.011	7.070	PV	136	3216	0.13%	0.004%
170	7.074	7.070	7.078	VV	133	541	0.02%	0.001%
171	7.083	7.078	7.097	VV	162	1088	0.04%	0.001%
172	7.108	7.097	7.113	VV	194	1314	0.05%	0.002%
173	7.124	7.113	7.158	VV	206	3409	0.14%	0.004%
174	7.161	7.158	7.165	VV	101	385	0.02%	0.000%
175	7.167	7.165	7.171	VV	140	343	0.01%	0.000%
176	7.195	7.171	7.216	VV	163	3118	0.13%	0.004%
177	7.234	7.216	7.248	VV	212	2572	0.10%	0.003%
178	7.251	7.248	7.265	VV	230	1180	0.05%	0.001%
179	7.284	7.265	7.344	VV	852	20937	0.85%	0.026%
180	7.357	7.344	7.387	VV	338	6193	0.25%	0.008%
181	7.390	7.387	7.397	VV	150	817	0.03%	0.001%
182	7.426	7.397	7.443	VV	1023	13032	0.53%	0.016%
183	7.456	7.443	7.477	VV	746	8537	0.35%	0.011%
184	7.481	7.477	7.488	VV	255	1219	0.05%	0.002%
185	7.489	7.488	7.499	VV	222	816	0.03%	0.001%
186	7.513	7.499	7.545	VV	224	3348	0.14%	0.004%
187	7.566	7.545	7.591	VV	853	9933	0.40%	0.012%
188	7.606	7.591	7.628	VV	325	4091	0.17%	0.005%
189	7.641	7.628	7.648	VV	203	1900	0.08%	0.002%
190	7.654	7.648	7.666	VV	206	1624	0.07%	0.002%
191	7.672	7.666	7.675	VV	165	844	0.03%	0.001%
192	7.681	7.675	7.707	VV	216	2583	0.10%	0.003%
193	7.740	7.707	7.770	VV	772	11792	0.48%	0.015%
194	7.798	7.770	7.812	VV	385	4941	0.20%	0.006%

Instrument :

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PIT#4MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

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195	7.829	7.812	7.838	VV	222	2288	0.09%	0.003%
196	7.871	7.838	7.880	VV	239	3744		
197	7.914	7.880	7.935	VV	231	4391		
198	7.960	7.935	7.978	VV	189	3148		
199	7.987	7.978	7.995	PV	131	631		
200	8.029	7.995	8.074	VV	748	11489		
201	8.082	8.074	8.095	VV	146	1537	0.06%	0.002%
202	8.100	8.095	8.111	VV	142	821	0.03%	0.001%
203	8.166	8.111	8.183	VV	926	15828	0.64%	0.020%
204	8.199	8.183	8.219	VV	1001	13233	0.53%	0.017%
205	8.223	8.219	8.254	VV	347	5047	0.20%	0.006%
206	8.258	8.254	8.264	VV	129	768	0.03%	0.001%
207	8.270	8.264	8.294	VV	213	2331	0.09%	0.003%
208	8.318	8.294	8.338	VV	441	7493	0.30%	0.009%
209	8.341	8.338	8.355	VV	255	2169	0.09%	0.003%
210	8.372	8.355	8.385	VV	267	3966	0.16%	0.005%
211	8.398	8.385	8.407	VV	262	2834	0.11%	0.004%
212	8.444	8.407	8.479	VV	634	15735	0.64%	0.020%
213	8.515	8.479	8.530	VV	515	10298	0.42%	0.013%
214	8.548	8.530	8.563	VV	1163	14960	0.60%	0.019%
215	8.577	8.563	8.590	VV	727	9880	0.40%	0.012%
216	8.624	8.590	8.650	VV	195988	2093149	84.60%	2.621%
217	8.661	8.650	8.688	VV	1616	20485	0.83%	0.026%
218	8.733	8.688	8.804	VV	3789	59670	2.41%	0.075%
219	8.822	8.804	8.834	VV	360	4173	0.17%	0.005%
220	8.837	8.834	8.848	VV	237	1451	0.06%	0.002%
221	8.856	8.848	8.888	VV	234	3367	0.14%	0.004%
222	8.908	8.888	8.920	VV	115	1287	0.05%	0.002%
223	8.952	8.920	8.961	VV	263	4011	0.16%	0.005%
224	8.981	8.961	9.011	VV	443	9628	0.39%	0.012%
225	9.031	9.011	9.057	VV	2799	31352	1.27%	0.039%
226	9.099	9.057	9.122	VV	562	16808	0.68%	0.021%
227	9.130	9.122	9.145	VV	416	5114	0.21%	0.006%
228	9.165	9.145	9.204	VV	458	10067	0.41%	0.013%
229	9.209	9.204	9.215	VV	191	1039	0.04%	0.001%
230	9.231	9.215	9.251	VV	375	5859	0.24%	0.007%
231	9.274	9.251	9.289	VV	654	8977	0.36%	0.011%
232	9.307	9.289	9.326	VV	1378	16105	0.65%	0.020%
233	9.357	9.326	9.413	VV	1190	34390	1.39%	0.043%
234	9.419	9.413	9.421	VV	152	615	0.02%	0.001%
235	9.450	9.421	9.470	VV	1367	19156	0.77%	0.024%
236	9.484	9.470	9.526	VV	721	11307	0.46%	0.014%
237	9.538	9.526	9.565	VV	152	2280	0.09%	0.003%
238	9.600	9.565	9.618	VV	635	7763	0.31%	0.010%
239	9.634	9.618	9.663	VV	687	9166	0.37%	0.011%
240	9.685	9.663	9.707	VV	402	5821	0.24%	0.007%
241	9.739	9.707	9.763	VV	563	9034	0.37%	0.011%
242	9.783	9.763	9.802	VV	1378	16892	0.68%	0.021%
243	9.822	9.802	9.860	VV	2738	40597	1.64%	0.051%
244	9.870	9.860	9.883	VV	521	5907	0.24%	0.007%
245	9.900	9.883	9.931	VV	684	13362	0.54%	0.017%
246	9.946	9.931	9.953	VV	421	4331	0.18%	0.005%

Instrument :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

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Instrument : FID_F									
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Manual IntegrationsAPPROVED									
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				rtetes					
247	9.972	9.953	9.993	VV	1198	16060	0.65%	0.020%	
248	10.011	9.993	10.027	VV	1064	13697			
249	10.033	10.027	10.055	VV	583	7242			
250	10.100	10.055	10.129	VV	69851	712754	28		
251	10.147	10.129	10.159	VV	1338	17988			
252	10.166	10.159	10.201	VV	1014	14063			
253	10.234	10.201	10.295	VV	191969	2130391	86.11%	2.667%	
254	10.308	10.295	10.318	VV	372	3874	0.16%	0.005%	
255	10.324	10.318	10.327	VV	223	990	0.04%	0.001%	
256	10.338	10.327	10.364	VV	425	5477	0.22%	0.007%	
257	10.367	10.364	10.380	PV	61	341	0.01%	0.000%	
258	10.384	10.380	10.387	VV	124	324	0.01%	0.000%	
259	10.405	10.387	10.419	VV	241	2974	0.12%	0.004%	
260	10.421	10.419	10.442	VV	179	917	0.04%	0.001%	
261	10.448	10.442	10.454	VV	116	578	0.02%	0.001%	
262	10.460	10.454	10.475	VV	122	822	0.03%	0.001%	
263	10.479	10.475	10.495	VV	75	447	0.02%	0.001%	
264	10.506	10.495	10.524	VV	119	1222	0.05%	0.002%	
265	10.575	10.524	10.604	PV	1966	26638	1.08%	0.033%	
266	10.622	10.604	10.640	VV	534	6878	0.28%	0.009%	
267	10.680	10.640	10.691	VV	770	13848	0.56%	0.017%	
268	10.710	10.691	10.734	VV	1153	16293	0.66%	0.020%	
269	10.749	10.734	10.767	VV	627	8119	0.33%	0.010%	
270	10.772	10.767	10.777	VV	263	1316	0.05%	0.002%	
271	10.791	10.777	10.806	VV	378	4814	0.19%	0.006%	
272	10.827	10.806	10.855	VV	970	17460	0.71%	0.022%	
273	10.876	10.855	10.895	VV	2483	32038	1.29%	0.040%	
274	10.902	10.895	10.915	VV	713	7349	0.30%	0.009%	
275	10.928	10.915	10.945	VV	889	12059	0.49%	0.015%	
276	10.975	10.945	10.986	VV	1285	21989	0.89%	0.028%	
277	10.996	10.986	11.010	VV	1240	13343	0.54%	0.017%	
278	11.031	11.010	11.054	VV	2104	35236	1.42%	0.044%	
279	11.060	11.054	11.091	VV	894	15518	0.63%	0.019%	
280	11.099	11.091	11.109	VV	546	4818	0.19%	0.006%	
281	11.128	11.109	11.145	VV	755	10522	0.43%	0.013%	
282	11.158	11.145	11.180	VV	351	4892	0.20%	0.006%	
283	11.196	11.180	11.205	VV	950	9285	0.38%	0.012%	
284	11.229	11.205	11.278	VV	36435	410942	16.61%	0.514%	
285	11.304	11.278	11.374	VV	8700	112653	4.55%	0.141%	
286	11.405	11.374	11.446	VV	391	11331	0.46%	0.014%	
287	11.450	11.446	11.457	VV	173	958	0.04%	0.001%	
288	11.479	11.457	11.499	VV	955	13283	0.54%	0.017%	
289	11.517	11.499	11.566	VV	2381	31761	1.28%	0.040%	
290	11.607	11.566	11.625	PV	562	11241	0.45%	0.014%	
291	11.680	11.625	11.731	VV	190011	2197481	88.82%	2.751%	
292	11.766	11.731	11.804	VV	2427	60660	2.45%	0.076%	
293	11.836	11.804	11.854	VV	1291	19947	0.81%	0.025%	
294	11.875	11.854	11.904	VV	1292	24482	0.99%	0.031%	
295	11.925	11.904	11.943	VV	2510	33121	1.34%	0.041%	
296	11.954	11.943	11.971	VV	908	13073	0.53%	0.016%	
297	11.988	11.971	12.008	VV	1055	16368	0.66%	0.020%	
298	12.035	12.008	12.049	VV	5472	64044	2.59%	0.080%	
299	12.066	12.049	12.110	VV	6912	93652	3.79%	0.117%	

300	12.151	12.110	12.169	VV	4845	93073	3.76%	0.117%
301	12.184	12.169	12.197	VV	3752	44674		
302	12.214	12.197	12.252	VV	5022	68469		
303	12.256	12.252	12.271	VV	464	4121		
304	12.291	12.271	12.319	VV	848	15938		
305	12.353	12.319	12.369	VV	1431	27692		
306	12.391	12.369	12.416	VV	4213	57670	2.33%	0.072%
307	12.449	12.416	12.485	VV	1748	51739	2.09%	0.065%
308	12.508	12.485	12.557	VV	4269	74054	2.99%	0.093%
309	12.567	12.557	12.580	VV	882	10820	0.44%	0.014%
310	12.601	12.580	12.673	VV	57822	779587	31.51%	0.976%
311	12.683	12.673	12.698	VV	1687	22718	0.92%	0.028%
312	12.710	12.698	12.727	VV	1579	24456	0.99%	0.031%
313	12.737	12.727	12.746	VV	1322	13655	0.55%	0.017%
314	12.758	12.746	12.771	VV	1618	21306	0.86%	0.027%
315	12.780	12.771	12.800	VV	1284	17211	0.70%	0.022%
316	12.827	12.800	12.865	VV	2089	50352	2.04%	0.063%
317	12.886	12.865	12.915	VV	3643	61085	2.47%	0.076%
318	12.938	12.915	12.956	VV	4448	68424	2.77%	0.086%
319	12.993	12.956	13.026	VV	184253	2252061	91.03%	2.820%
320	13.054	13.026	13.093	VV	62244	733159	29.63%	0.918%
321	13.109	13.093	13.135	VV	1482	24550	0.99%	0.031%
322	13.153	13.135	13.169	VV	688	11049	0.45%	0.014%
323	13.192	13.169	13.204	VV	1783	26567	1.07%	0.033%
324	13.214	13.204	13.227	VV	1687	20048	0.81%	0.025%
325	13.243	13.227	13.282	VV	2875	64568	2.61%	0.081%
326	13.291	13.282	13.325	VV	1176	21854	0.88%	0.027%
327	13.353	13.325	13.379	VV	54514	610438	24.67%	0.764%
328	13.409	13.379	13.425	VV	5466	78596	3.18%	0.098%
329	13.441	13.425	13.475	VV	5523	69430	2.81%	0.087%
330	13.494	13.475	13.508	VV	778	10965	0.44%	0.014%
331	13.527	13.508	13.536	VV	2129	25103	1.01%	0.031%
332	13.551	13.536	13.579	VV	2707	38251	1.55%	0.048%
333	13.620	13.579	13.642	PV	4158	72697	2.94%	0.091%
334	13.649	13.642	13.669	VV	1363	19847	0.80%	0.025%
335	13.690	13.669	13.713	VV	2506	48909	1.98%	0.061%
336	13.725	13.713	13.737	VV	1646	20866	0.84%	0.026%
337	13.751	13.737	13.770	VV	2268	33411	1.35%	0.042%
338	13.814	13.770	13.827	VV	4158	78669	3.18%	0.098%
339	13.838	13.827	13.890	VV	5560	102576	4.15%	0.128%
340	13.896	13.890	13.899	VV	855	4130	0.17%	0.005%
341	13.943	13.899	13.982	VV	6911	134384	5.43%	0.168%
342	14.012	13.982	14.027	VV	1144	21783	0.88%	0.027%
343	14.054	14.027	14.073	VV	3255	51152	2.07%	0.064%
344	14.091	14.073	14.111	VV	4403	54498	2.20%	0.068%
345	14.142	14.111	14.161	VV	1924	39362	1.59%	0.049%
346	14.195	14.161	14.242	VV	179965	2222173	89.82%	2.782%
347	14.263	14.242	14.300	VV	3637	52199	2.11%	0.065%
348	14.335	14.300	14.358	VV	1215	19969	0.81%	0.025%
349	14.373	14.358	14.382	VV	569	6475	0.26%	0.008%
350	14.401	14.382	14.419	VV	744	11402	0.46%	0.014%
351	14.433	14.419	14.460	VV	714	12454	0.50%	0.016%

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						Instrument :	
						FID_F	
						ClientSampleId :	
						PIT#4MSD	
				rt	Area	Area%	Height%
352	14.476	14.460	14.495	VV	603	6904	0.28%
353	14.501	14.495	14.515	PV	199	1225	0.009%
354	14.530	14.515	14.542	PV	362	3254	
355	14.557	14.542	14.566	VV	371	4034	
356	14.590	14.566	14.615	VV	1788	30312	
357	14.639	14.615	14.657	VV	1513	30089	
358	14.679	14.657	14.737	VV	5506	83774	3.39%
359	14.760	14.737	14.782	VV	3471	50997	2.06%
360	14.789	14.782	14.814	VV	1284	16631	0.67%
361	14.860	14.814	14.897	VV	3987	94880	3.83%
362	14.924	14.897	14.946	VV	7689	106831	4.32%
363	14.981	14.946	15.013	VV	6099	104723	4.23%
364	15.046	15.013	15.062	VV	1125	19472	0.79%
365	15.097	15.062	15.137	VV	91919	1228007	49.63%
366	15.154	15.137	15.167	VV	918	13341	0.54%
367	15.188	15.167	15.208	VV	2478	32743	1.32%
368	15.235	15.208	15.256	VV	28451	339995	13.74%
369	15.302	15.256	15.338	VV	165109	2474076	100.00%
370	15.347	15.338	15.359	VV	1259	12677	0.51%
371	15.397	15.359	15.421	VV	5623	89455	3.62%
372	15.441	15.421	15.450	VV	1388	20753	0.84%
373	15.472	15.450	15.512	VV	2256	48727	1.97%
374	15.538	15.512	15.562	PV	2402	40733	1.65%
375	15.579	15.562	15.636	VV	2589	54472	2.20%
376	15.687	15.636	15.752	VV	32375	563625	22.78%
377	15.761	15.752	15.765	VV	400	2528	0.10%
378	15.783	15.765	15.794	VV	374	5287	0.21%
379	15.824	15.794	15.858	VV	4938	91325	3.69%
380	15.910	15.858	15.932	VV	6737	136282	5.51%
381	15.949	15.932	15.982	VV	2966	41562	1.68%
382	15.995	15.982	16.015	VV	681	9505	0.38%
383	16.024	16.015	16.029	VV	629	4362	0.18%
384	16.056	16.029	16.060	VV	2320	27051	1.09%
385	16.073	16.060	16.108	VV	2955	50308	2.03%
386	16.127	16.108	16.132	VV	470	4251	0.17%
387	16.152	16.132	16.177	VV	1665	22692	0.92%
388	16.205	16.177	16.224	PV	2059	31376	1.27%
389	16.234	16.224	16.252	VV	1483	19695	0.80%
390	16.266	16.252	16.290	VV	1669	24174	0.98%
391	16.326	16.290	16.365	VV	158787	2113178	85.41%
392	16.370	16.365	16.373	VV	252	1171	0.05%
393	16.388	16.373	16.412	VV	663	10191	0.41%
394	16.424	16.412	16.430	VV	395	3705	0.15%
395	16.441	16.430	16.461	VV	660	9069	0.37%
396	16.466	16.461	16.480	VV	354	2525	0.10%
397	16.521	16.480	16.545	PV	2277	43405	1.75%
398	16.550	16.545	16.564	VV	771	5789	0.23%
399	16.580	16.564	16.600	VV	1459	19247	0.78%
400	16.626	16.600	16.650	VV	1463	28762	1.16%
401	16.705	16.650	16.750	VV	7144	156018	6.31%
402	16.800	16.750	16.819	VV	30290	474802	19.19%
403	16.824	16.819	16.855	VV	12639	128364	5.19%
404	16.887	16.855	16.905	PV	1528	25304	1.02%

Instrument :

FID_F

ClientSampleId :

PIT#4MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

405	16.930	16.905	16.951	VV	5790	73500	2.97%	0.092%
406	16.970	16.951	17.005	VV	1438	29587		
407	17.022	17.005	17.027	VV	759	7310		
408	17.049	17.027	17.062	VV	1100	14985		
409	17.120	17.062	17.144	VV	18620	284657	11.11%	0.352%
410	17.178	17.144	17.221	VV	23884	321860	13.33%	0.425%
411	17.279	17.221	17.312	PV	156069	2178067	88.04%	2.727%
412	17.329	17.312	17.346	VV	2615	41200	1.67%	0.052%
413	17.354	17.346	17.383	VV	1989	24524	0.99%	0.031%
414	17.422	17.383	17.462	VV	1649	40217	1.63%	0.050%
415	17.487	17.462	17.507	VV	818	10677	0.43%	0.013%
416	17.552	17.507	17.575	VV	2327	57371	2.32%	0.072%
417	17.580	17.575	17.588	VV	961	6930	0.28%	0.009%
418	17.595	17.588	17.605	VV	1094	7771	0.31%	0.010%
419	17.652	17.605	17.694	VV	6449	147812	5.97%	0.185%
420	17.730	17.694	17.750	VV	5685	111405	4.50%	0.139%
421	17.766	17.750	17.780	VV	1757	21886	0.88%	0.027%
422	17.809	17.780	17.822	VV	1568	29291	1.18%	0.037%
423	17.843	17.822	17.869	VV	2776	50501	2.04%	0.063%
424	17.906	17.869	17.921	VV	1286	24363	0.98%	0.031%
425	17.962	17.921	17.987	VV	954	20657	0.83%	0.026%
426	18.026	17.987	18.041	VV	641	10187	0.41%	0.013%
427	18.059	18.041	18.081	PV	1930	28699	1.16%	0.036%
428	18.126	18.081	18.131	VV	2618	51390	2.08%	0.064%
429	18.171	18.131	18.207	VV	149342	2102330	84.97%	2.632%
430	18.260	18.207	18.292	VV	3948	107148	4.33%	0.134%
431	18.321	18.292	18.337	VV	5569	92967	3.76%	0.116%
432	18.352	18.337	18.379	VV	3546	67784	2.74%	0.085%
433	18.399	18.379	18.430	VV	3478	67419	2.73%	0.084%
434	18.460	18.430	18.475	VV	5610	91412	3.69%	0.114%
435	18.491	18.475	18.508	VV	5325	81662	3.30%	0.102%
436	18.546	18.508	18.575	VV	27273	608849	24.61%	0.762%
437	18.594	18.575	18.624	VV	9702	170022	6.87%	0.213%
438	18.638	18.624	18.664	VV	3055	57152	2.31%	0.072%
439	18.687	18.664	18.705	VV	8140	136756	5.53%	0.171%
440	18.717	18.705	18.770	VV	6342	132206	5.34%	0.166%
441	18.807	18.770	18.855	VV	19115	303234	12.26%	0.380%
442	18.897	18.855	18.913	VV	3600	100435	4.06%	0.126%
443	18.939	18.913	18.960	VV	7226	128828	5.21%	0.161%
444	19.005	18.960	19.059	VV	132516	2101804	84.95%	2.631%
445	19.110	19.059	19.144	VV	7118	239231	9.67%	0.300%
446	19.165	19.144	19.184	VV	5000	104175	4.21%	0.130%
447	19.240	19.184	19.254	VV	5127	177196	7.16%	0.222%
448	19.288	19.254	19.308	VV	6282	174638	7.06%	0.219%
449	19.326	19.308	19.339	VV	7084	114902	4.64%	0.144%
450	19.367	19.339	19.396	VV	23411	508213	20.54%	0.636%
451	19.412	19.396	19.458	VV	10434	296404	11.98%	0.371%
452	19.515	19.458	19.529	VV	8685	323439	13.07%	0.405%
453	19.539	19.529	19.554	VV	7861	110804	4.48%	0.139%
454	19.600	19.554	19.628	VV	9476	353742	14.30%	0.443%
455	19.658	19.628	19.676	VV	9461	251477	10.16%	0.315%
456	19.700	19.676	19.737	VV	10537	339609	13.73%	0.425%

Instrument :

FID_F

ClientSampleId :

PIT#4MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/11/2025

							Instrument : FID_F	
							ClientSampleId : 12	
							PIT#4MSD	
rteres							Manual Integration	
457	19.792	19.737	19.835	VV	122156	2207733	89.23%	2.764%
458	19.856	19.835	19.879	VV	12814	305819	12.28%	0.382%
459	19.900	19.879	19.932	VV	14175	393671	15.78%	0.489%
460	19.966	19.932	19.994	VV	19945	561106	22.28%	0.742%
							Reviewed By :Yogesh	
							Supervised By :m	
461	20.034	19.994	20.062	VV	18438	622784	25.28%	0.843%
462	20.088	20.062	20.110	VV	16732	454712	18.68%	0.579%
463	20.145	20.110	20.197	VV	23582	947134	38.28%	1.186%
464	20.219	20.197	20.230	VV	15977	305327	12.34%	0.382%
465	20.258	20.230	20.270	VV	16925	390290	15.78%	0.489%
466	20.346	20.270	20.371	VV	27568	1243519	50.26%	1.557%
467	20.416	20.371	20.429	VV	25690	800464	32.35%	1.002%
468	20.436	20.429	20.459	VV	24461	414385	16.75%	0.519%
469	20.482	20.459	20.494	VV	22592	462221	18.68%	0.579%
470	20.535	20.494	20.567	VV	117710	2357593	95.29%	2.952%
471	20.614	20.567	20.642	VV	25464	1106802	44.74%	1.386%
472	20.695	20.642	20.745	VV	31502	1657646	67.00%	2.075%
473	20.754	20.745	20.769	VV	25340	358941	14.51%	0.449%
474	20.848	20.769	20.872	VV	27297	1617735	65.39%	2.025%
475	20.892	20.872	20.938	VV	27518	1051809	42.51%	1.317%
476	20.956	20.938	20.982	VV	26098	673070	27.20%	0.843%
477	20.994	20.982	21.077	VV	24849	1340044	54.16%	1.678%
478	21.098	21.077	21.105	VV	22375	377240	15.25%	0.472%
479	21.160	21.105	21.244	VV	22394	1788293	72.28%	2.239%
480	21.301	21.244	21.346	VV	89022	2455555	99.25%	3.074%
481	21.365	21.346	21.422	VV	18730	804939	32.53%	1.008%
482	21.436	21.422	21.462	VV	16217	382366	15.45%	0.479%
483	21.484	21.462	21.530	VV	16558	645664	26.10%	0.808%
484	21.537	21.530	21.547	VV	15262	153769	6.22%	0.193%
485	21.555	21.547	21.566	VV	15057	168635	6.82%	0.211%
486	21.576	21.566	21.587	VV	15113	185199	7.49%	0.232%
487	21.599	21.587	21.644	VV	15121	489609	19.79%	0.613%
488	21.650	21.644	21.685	VV	13246	310939	12.57%	0.389%
489	21.697	21.685	21.711	VV	11838	177515	7.18%	0.222%
490	21.772	21.711	21.800	VV	14048	669407	27.06%	0.838%
491	21.809	21.800	21.845	VV	11561	293445	11.86%	0.367%
492	21.860	21.845	21.896	VV	10306	293604	11.87%	0.368%
493	21.904	21.896	21.914	VV	9171	93002	3.76%	0.116%
494	21.939	21.914	21.969	VV	9067	287562	11.62%	0.360%
495	21.979	21.969	21.986	VV	8818	92395	3.73%	0.116%
496	21.995	21.986	22.047	VV	8872	270074	10.92%	0.338%
497	22.082	22.047	22.115	VV	7267	254045	10.27%	0.318%
498	22.128	22.115	22.136	VV	5211	61717	2.49%	0.077%
499	22.172	22.136	22.197	VV	7112	209883	8.48%	0.263%
500	22.263	22.197	22.367	VV	55244	1608514	65.01%	2.014%
501	22.403	22.367	22.430	VV	1037	24066	0.97%	0.030%
Sum of corrected areas:							79873270	

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2473-04MS		FF016140.D	FF071025	N-OCTACOSANE	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
Q2473-04MSD		FF016141.D	FF071025	N-HEXATRIACONTANE	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
Q2473-04MSD		FF016141.D	FF071025	N-OCTACOSANE	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
Q2486-01		FF016142.D	FF071025	TETRACOSANE-d50 (SURROGA	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
.BLK		FF016144.D	FF071025	TETRACOSANE-d50 (SURROGA	mohammad	7/11/2025 9:10:05 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		FG016281.D	FG071025	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG016283.D	FG071025	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071025

Review By	yogesh	Review On	7/10/2025 3:10:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 9:10:05 AM
SubDirectory	FF071025	HP Acquire Method	HP Processing Method FF071025
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016128.D	10 Jul 2025 08:46	YP\AJ	Ok
2	I.BLK	FF016129.D	10 Jul 2025 09:16	YP\AJ	Ok
3	100 TRPH STD	FF016130.D	10 Jul 2025 09:46	YP\AJ	Ok
4	50 TRPH STD	FF016131.D	10 Jul 2025 10:15	YP\AJ	Ok
5	20 TRPH STD	FF016132.D	10 Jul 2025 10:45	YP\AJ	Ok
6	10 TRPH STD	FF016133.D	10 Jul 2025 11:15	YP\AJ	Ok
7	5 TRPH STD	FF016134.D	10 Jul 2025 12:44	YP\AJ	Ok
8	FF071025ICV	FF016135.D	10 Jul 2025 13:13	YP\AJ	Ok
9	I.BLK	FF016136.D	10 Jul 2025 13:43	YP\AJ	Ok
10	50 PPM TRPH STD	FF016137.D	10 Jul 2025 15:12	YP\AJ	Ok
11	RT MARKER	FF016138.D	10 Jul 2025 15:42	YP\AJ	Ok
12	Q2473-04	FF016139.D	10 Jul 2025 16:12	YP\AJ	Ok
13	Q2473-04MS	FF016140.D	10 Jul 2025 16:42	YP\AJ	Ok,M
14	Q2473-04MSD	FF016141.D	10 Jul 2025 17:12	YP\AJ	Ok,M
15	Q2486-01	FF016142.D	10 Jul 2025 17:42	YP\AJ	Ok,M
16	Q2504-01	FF016143.D	10 Jul 2025 18:12	YP\AJ	Ok
17	I.BLK	FF016144.D	10 Jul 2025 18:41	YP\AJ	Ok,M
18	50 PPM TRPH STD	FF016145.D	10 Jul 2025 20:11	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG070925

Review By	yogesh	Review On	7/9/2025 12:27:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 1:37:09 AM
SubDirectory	FG070925	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016262.D	09 Jul 2025 09:03	YP\AJ	Ok
2	I.BLK	FG016263.D	09 Jul 2025 09:32	YP\AJ	Ok
3	100 TRPH STD	FG016264.D	09 Jul 2025 10:02	YP\AJ	Ok
4	50 TRPH STD	FG016265.D	09 Jul 2025 11:05	YP\AJ	Ok
5	20 TRPH STD	FG016266.D	09 Jul 2025 11:34	YP\AJ	Ok
6	10 TRPH STD	FG016267.D	09 Jul 2025 12:04	YP\AJ	Ok
7	5 TRPH STD	FG016268.D	09 Jul 2025 12:34	YP\AJ	Ok
8	FG070925ICV	FG016269.D	09 Jul 2025 13:04	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG071025

Review By	yogesh	Review On	7/10/2025 3:09:15 PM
Supervise By		Supervise On	
SubDirectory	FG071025	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016270.D	10 Jul 2025 08:46	YP\AJ	Ok
2	I.BLK	FG016271.D	10 Jul 2025 10:45	YP\AJ	Ok
3	50 PPM TRPH STD	FG016272.D	10 Jul 2025 12:44	YP\AJ	Ok
4	RT MARKER	FG016273.D	10 Jul 2025 13:13	YP\AJ	Ok
5	PB168785BL	FG016274.D	10 Jul 2025 13:43	YP\AJ	Ok
6	PB168785BS	FG016275.D	10 Jul 2025 14:13	YP\AJ	Ok
7	Q2473-01	FG016276.D	10 Jul 2025 14:43	YP\AJ	Dilution
8	Q2473-01	FG016277.D	10 Jul 2025 15:42	YP\AJ	Ok
9	Q2473-02	FG016278.D	10 Jul 2025 16:12	YP\AJ	Dilution
10	Q2473-03	FG016279.D	10 Jul 2025 16:42	YP\AJ	Dilution
11	I.BLK	FG016280.D	10 Jul 2025 17:12	YP\AJ	Ok
12	50 PPM TRPH STD	FG016281.D	10 Jul 2025 18:41	YP\AJ	Ok,NS
13	I.BLK	FG016282.D	10 Jul 2025 19:11	YP\AJ	Ok
14	50 PPM TRPH STD	FG016283.D	10 Jul 2025 19:41	YP\AJ	Ok,NS
15	RT MARKER	FG016284.D	10 Jul 2025 20:41	YP\AJ	Ok
16	PB168751BS	FG016285.D	10 Jul 2025 21:11	YP\AJ	Ok
17	I.BLK	FG016286.D	10 Jul 2025 21:41	YP\AJ	Ok
18	50 PPM TRPH STD	FG016287.D	10 Jul 2025 22:10	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071025

Review By	yogesh	Review On	7/10/2025 3:10:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 9:10:05 AM
SubDirectory	FF071025	HP Acquire Method	HP Processing Method FF071025
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC	PP24469		
Internal Standard/PEM	PP24468,PP24473		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF016128.D	10 Jul 2025 08:46		YPIAJ	Ok
2	I.BLK		FF016129.D	10 Jul 2025 09:16		YPIAJ	Ok
3	100 TRPH STD		FF016130.D	10 Jul 2025 09:46		YPIAJ	Ok
4	50 TRPH STD		FF016131.D	10 Jul 2025 10:15		YPIAJ	Ok
5	20 TRPH STD		FF016132.D	10 Jul 2025 10:45		YPIAJ	Ok
6	10 TRPH STD		FF016133.D	10 Jul 2025 11:15		YPIAJ	Ok
7	5 TRPH STD		FF016134.D	10 Jul 2025 12:44		YPIAJ	Ok
8	FF071025ICV		FF016135.D	10 Jul 2025 13:13		YPIAJ	Ok
9	I.BLK		FF016136.D	10 Jul 2025 13:43		YPIAJ	Ok
10	50 PPM TRPH STD		FF016137.D	10 Jul 2025 15:12		YPIAJ	Ok
11	RT MARKER		FF016138.D	10 Jul 2025 15:42		YPIAJ	Ok
12	Q2473-04		FF016139.D	10 Jul 2025 16:12		YPIAJ	Ok
13	Q2473-04MS		FF016140.D	10 Jul 2025 16:42		YPIAJ	Ok,M
14	Q2473-04MSD		FF016141.D	10 Jul 2025 17:12		YPIAJ	Ok,M
15	Q2486-01		FF016142.D	10 Jul 2025 17:42		YPIAJ	Ok,M
16	Q2504-01		FF016143.D	10 Jul 2025 18:12		YPIAJ	Ok
17	I.BLK		FF016144.D	10 Jul 2025 18:41		YPIAJ	Ok,M
18	50 PPM TRPH STD		FF016145.D	10 Jul 2025 20:11		YPIAJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071025

Review By	yogesh	Review On	7/10/2025 3:10:07 PM	
Supervise By	mohammad	Supervise On	7/11/2025 9:10:05 AM	
SubDirectory	FF071025	HP Acquire Method	HP Processing Method	FF071025
STD. NAME	STD REF.#			
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472			
CCC Internal Standard/PEM	PP24469			
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473			

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG070925

Review By	yogesh	Review On	7/9/2025 12:27:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 1:37:09 AM
SubDirectory	FG070925	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016262.D	09 Jul 2025 09:03		YP\AJ	Ok
2	I.BLK		FG016263.D	09 Jul 2025 09:32		YP\AJ	Ok
3	100 TRPH STD		FG016264.D	09 Jul 2025 10:02		YP\AJ	Ok
4	50 TRPH STD		FG016265.D	09 Jul 2025 11:05		YP\AJ	Ok
5	20 TRPH STD		FG016266.D	09 Jul 2025 11:34		YP\AJ	Ok
6	10 TRPH STD		FG016267.D	09 Jul 2025 12:04		YP\AJ	Ok
7	5 TRPH STD		FG016268.D	09 Jul 2025 12:34		YP\AJ	Ok
8	FG070925ICV		FG016269.D	09 Jul 2025 13:04		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG071025

Review By	yogesh	Review On	7/10/2025 3:09:15 PM
Supervise By		Supervise On	
SubDirectory	FG071025	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC	PP24469		
Internal Standard/PEM			
ICV/I.BLK	PP24468,PP24473		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016270.D	10 Jul 2025 08:46		YPIAJ	Ok
2	I.BLK		FG016271.D	10 Jul 2025 10:45		YPIAJ	Ok
3	50 PPM TRPH STD		FG016272.D	10 Jul 2025 12:44		YPIAJ	Ok
4	RT MARKER		FG016273.D	10 Jul 2025 13:13		YPIAJ	Ok
5	PB168785BL		FG016274.D	10 Jul 2025 13:43		YPIAJ	Ok
6	PB168785BS		FG016275.D	10 Jul 2025 14:13		YPIAJ	Ok
7	Q2473-01		FG016276.D	10 Jul 2025 14:43	need 10x dilution	YPIAJ	Dilution
8	Q2473-01		FG016277.D	10 Jul 2025 15:42		YPIAJ	Ok
9	Q2473-02		FG016278.D	10 Jul 2025 16:12	need 10x dilution	YPIAJ	Dilution
10	Q2473-03		FG016279.D	10 Jul 2025 16:42	need 5x dilution	YPIAJ	Dilution
11	I.BLK		FG016280.D	10 Jul 2025 17:12		YPIAJ	Ok
12	50 PPM TRPH STD		FG016281.D	10 Jul 2025 18:41		YPIAJ	Ok,NS
13	I.BLK		FG016282.D	10 Jul 2025 19:11		YPIAJ	Ok
14	50 PPM TRPH STD		FG016283.D	10 Jul 2025 19:41		YPIAJ	Ok,NS
15	RT MARKER		FG016284.D	10 Jul 2025 20:41		YPIAJ	Ok
16	PB168751BS		FG016285.D	10 Jul 2025 21:11		YPIAJ	Ok
17	I.BLK		FG016286.D	10 Jul 2025 21:41		YPIAJ	Ok
18	50 PPM TRPH STD		FG016287.D	10 Jul 2025 22:10		YPIAJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG071025

Review By	yogesh	Review On	7/10/2025 3:09:15 PM
Supervise By		Supervise On	
SubDirectory	FG071025	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC	PP24469		
Internal Standard/PEM			
ICV/I.BLK	PP24468,PP24473		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 07/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136354

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
Q2480-01	GPX1	1	1.15	10.52	11.67	10.44	88.3	
Q2480-02	GPX2	2	1.19	10.60	11.79	10.66	89.3	
Q2480-03	GPX3	3	1.15	10.84	11.99	10.77	88.7	
Q2480-04	GPX4	4	1.13	10.84	11.97	10.66	87.9	
Q2480-05	GPX5	5	1.13	10.53	11.66	10.55	89.5	
Q2480-06	GPX6	6	1.17	10.56	11.73	10.35	86.9	
Q2480-07	GPX7	7	1.18	10.59	11.77	10.48	87.8	
Q2480-08	GPX8	8	1.18	10.37	11.55	10.22	87.2	
Q2484-01	TP-58	9	1.19	10.77	11.96	10.47	86.2	
Q2484-02	TP-57	10	1.18	10.22	11.4	9.97	86.0	
Q2484-03	TP-64	11	1.16	10.50	11.66	10.44	88.4	
Q2484-04	TP-107	12	1.13	10.69	11.82	10.09	83.8	
Q2484-05	TP-1006	13	1.14	10.48	11.62	10.35	87.9	
Q2484-06	TP-104	14	1.15	10.29	11.44	10.13	87.3	
Q2486-01	WASTE	15	1.16	10.31	11.47	9.77	83.5	
Q2486-02	VOC	16	1.18	11.32	12.5	10.65	83.7	
Q2486-03	1	17	1.15	10.80	11.95	10.24	84.2	
Q2486-04	2	18	1.13	10.46	11.59	9.74	82.3	
Q2486-05	3	19	1.13	10.78	11.91	10.12	83.4	
Q2486-06	4	20	1.19	10.00	11.19	9.65	84.6	
Q2486-07	5	21	1.19	10.26	11.45	8.79	74.1	
Q2491-01	EO-1-070225	22	1.19	10.51	11.7	10.9	92.4	
Q2491-02	EO-1-070225-E2	23	1.15	10.14	11.29	10.5	92.2	
Q2492-01	VNJ-254-1	24	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2492-02	VNJ-254-2	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2493-01	WC-11	26	1.13	10.45	11.58	10.4	88.7	
Q2493-02	WC-11-EPH	27	1.19	10.23	11.42	9.72	83.4	
Q2493-03	WC-11-VOC	28	1.14	9.89	11.03	10.2	91.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 07/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136354

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
Q2494-01	Playhouse/Storag	35	1.00	1.00	2.00	2.00	100.0	Caulk sample
Q2494-02	Playhouse/Storag	36	1.00	1.00	2.00	2.00	100.0	chair form
Q2494-03	Garage Seat Foa	37	1.00	1.00	2.00	2.00	100.0	seat form
Q2494-04	Black foam in Sou	38	1.00	1.00	2.00	2.00	100.0	black form
Q2494-05	Kids Room styof	39	1.00	1.00	2.00	2.00	100.0	yellow form
Q2494-06	Kids Room Lower	40	1.00	1.00	2.00	2.00	100.0	form
Q2494-07	Kids Room styof	41	1.00	1.00	2.00	2.00	100.0	styra form
Q2494-08	Dog Beg Foam	42	1.00	1.00	2.00	2.00	100.0	bag form
Q2494-09	Cotton Layer - Ott	43	1.00	1.00	2.00	2.00	100.0	cotton layer
Q2494-10	Foam Ottoman	44	1.00	1.00	2.00	2.00	100.0	form ottoman
Q2494-11	Foyer North Wall	45	1.00	1.00	2.00	2.00	100.0	foyer north wall plug
Q2494-12	NE Stucco Exterio	46	1.00	1.00	2.00	2.00	100.0	stucco exterior
Q2494-13	Master Mattress	47	1.00	1.00	2.00	2.00	100.0	mattress
Q2495-01	Chair Foam Parke	48	1.00	1.00	2.00	2.00	100.0	chair form
Q2495-02	SE Bedroom (3rd	49	1.00	1.00	2.00	2.00	100.0	mattress
Q2495-03	E Bedroom Ceilin	50	1.00	1.00	2.00	2.00	100.0	ceiling plug
Q2495-04	South East Ceilining	51	1.00	1.00	2.00	2.00	100.0	east selling plug
Q2495-05	Master Bathroom	52	1.00	1.00	2.00	2.00	100.0	selling plug
Q2495-06	3rd Fl Hallway N	53	1.00	1.00	2.00	2.00	100.0	hoalway selling
Q2495-07	SE Bedroom Park	54	1.00	1.00	2.00	2.00	100.0	bedrom plug
Q2495-08	Family Room SW	55	1.00	1.00	2.00	2.00	100.0	family plug
Q2495-09	Foyer SE Corner P	56	1.00	1.00	2.00	2.00	100.0	foyer plug
Q2495-10	Green Carpet Pad	57	1.00	1.00	2.00	2.00	100.0	green carpet pad
Q2495-11	Rug in Dining Roo	58	1.00	1.00	2.00	2.00	100.0	rug
Q2495-12	LR Couch Cushion	59	1.00	1.00	2.00	2.00	100.0	couch cushion
Q2495-13	Dining Room W	60	1.00	1.00	2.00	2.00	100.0	wood and foam
Q2495-14	Kitchen Dining E	61	1.00	1.00	2.00	2.00	100.0	kithean rug
Q2495-15	Garage Southwes	62	1.00	1.00	2.00	2.00	100.0	plug

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
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Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136354

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
Q2495-16	Zack"s Matterss	63	1.00	1.00	2.00	2.00	100.0	mattess
Q2495-17	Zack"s Couch	64	1.00	1.00	2.00	2.00	100.0	zacks couch
Q2496-02	N exterior center	65	1.00	1.00	2.00	2.00	100.0	stucco wall
Q2496-03	Basement south	66	1.00	1.00	2.00	2.00	100.0	wall cavity stucc
Q2496-04	Entertainment ro	67	1.00	1.00	2.00	2.00	100.0	hvac close
Q2496-05	Black mat outside	68	1.00	1.00	2.00	2.00	100.0	outside mat
Q2496-06	Basement bedroom	69	1.00	1.00	2.00	2.00	100.0	bedrom form
Q2496-07	Basement bedroom-1	70	1.00	1.00	2.00	2.00	100.0	window plug
Q2496-08	Basement bedroom-2	71	1.00	1.00	2.00	2.00	100.0	window plug
Q2496-09	Maeve"s room ma	72	1.00	1.00	2.00	2.00	100.0	mattess
Q2496-10	Master bedroom	73	1.00	1.00	2.00	2.00	100.0	rug
Q2496-11	Master bedroom-1	74	1.00	1.00	2.00	2.00	100.0	chair form
Q2496-12	Master bedroom-2	75	1.00	1.00	2.00	2.00	100.0	mattess form
Q2496-13	Master bedroom-3	76	1.00	1.00	2.00	2.00	100.0	office chair form
Q2496-14	SE bedroom brow	77	1.00	1.00	2.00	2.00	100.0	form
Q2496-15	SE bedroom gray	78	1.00	1.00	2.00	2.00	100.0	gray cushion
Q2496-16	Maeves room gre	79	1.00	1.00	2.00	2.00	100.0	chair form
Q2496-17	Master bedroom-4	80	1.00	1.00	2.00	2.00	100.0	plug
Q2496-18	3rd floor roof ent	81	1.00	1.00	2.00	2.00	100.0	plug
Q2496-19	Living room couc	82	1.00	1.00	2.00	2.00	100.0	couch form
Q2496-20	Living room 2 sea	83	1.00	1.00	2.00	2.00	100.0	form
Q2496-21	Office leather cha	84	1.00	1.00	2.00	2.00	100.0	form
Q2496-22	Pink shoe sole	85	1.00	1.00	2.00	2.00	100.0	shoe sole
Q2496-23	Living room rug S	86	1.00	1.00	2.00	2.00	100.0	rug
Q2496-24	Dining room NE c	87	1.00	1.00	2.00	2.00	100.0	plug
Q2497-01	SW bedroom (San	88	1.00	1.00	2.00	2.00	100.0	plug
Q2497-02	Salman s room SE	89	1.00	1.00	2.00	2.00	100.0	plug compossi
Q2497-03	Sanah s room bed	90	1.00	1.00	2.00	2.00	100.0	sanah form

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
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In Date: 07/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136354

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
Q2497-04	Salman s room m	91	1.00	1.00	2.00	2.00	100.0	mattess form
Q2497-05	Master bed mattr	92	1.00	1.00	2.00	2.00	100.0	mattess
Q2497-06	Kaihaan s room m	93	1.00	1.00	2.00	2.00	100.0	form
Q2497-07	Garage foam yog	94	1.00	1.00	2.00	2.00	100.0	garage foam
Q2497-08	Living room west	95	1.00	1.00	2.00	2.00	100.0	form
Q2497-09	Entrance rug	96	1.00	1.00	2.00	2.00	100.0	rug
Q2497-10	south exterior re	97	1.00	1.00	2.00	2.00	100.0	form
Q2497-11	Garage gym floor	98	1.00	1.00	2.00	2.00	100.0	garage foam
Q2497-12	Rug by the back d	99	1.00	1.00	2.00	2.00	100.0	rug
Q2497-13	Guest bed mattre	100	1.00	1.00	2.00	2.00	100.0	mattess
Q2497-14	Garage backyard	101	1.00	1.00	2.00	2.00	100.0	garage foam
Q2497-15	LR SW conner chai	102	1.00	1.00	2.00	2.00	100.0	form
Q2497-16	Living room NE co	103	1.00	1.00	2.00	2.00	100.0	catters
Q2497-17	Dining room SW c	104	1.00	1.00	2.00	2.00	100.0	chair form
Q2497-18	LR SW rug corner	105	1.00	1.00	2.00	2.00	100.0	rug
Q2497-19	LR west wall plug	106	1.00	1.00	2.00	2.00	100.0	plug
Q2497-20	LR NE corner plug	107	1.00	1.00	2.00	2.00	100.0	plug
Q2497-21	office east wall pl	108	1.00	1.00	2.00	2.00	100.0	plug
Q2497-22	Bedroom north w	109	1.00	1.00	2.00	2.00	100.0	plug
Q2497-23	Kitchen ceiling pl	110	1.00	1.00	2.00	2.00	100.0	celling plug
Q2498-01	NE Bd bed foam	111	1.00	1.00	2.00	2.00	100.0	bedrom form
Q2498-02	NE Bd pillow foa	112	1.00	1.00	2.00	2.00	100.0	form
Q2498-03	Master bed NE m	113	1.00	1.00	2.00	2.00	100.0	mattess
Q2500-01	X600-B2	29	1.15	10.84	11.99	11.24	93.1	
Q2500-02	X600-S2	30	1.19	10.36	11.55	10.6	90.8	
Q2500-03	X600-B1	31	1.13	10.42	11.55	11.02	94.9	
Q2500-04	X600-S1	32	1.13	10.32	11.45	10.6	91.8	
Q2500-05	X600-DUP1	33	1.14	10.85	11.99	11.3	93.6	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
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Weight Check 1.0g: 1.00
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OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
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Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136354

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
Q2500-06	X600-S3	34	1.11	10.71	11.82	11.18	94.0	

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

WORKLIST(Hardcopy Internal Chain)

136354

WorkList Name : %1-070225

WorkList ID : 190499

Department : Wet-Chemistry

Date : 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2480-01	GPX1	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	06/30/2025	Chemtech -SO
Q2480-02	GPX2	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	06/30/2025	Chemtech -SO
Q2480-03	GPX3	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-04	GPX4	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-05	GPX5	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-06	GPX6	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-07	GPX7	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2480-08	GPX8	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2484-01	TP-58	Solid	Percent Solids	Cool 4 deg C	GENV01	A43	07/01/2025	Chemtech -SO
Q2484-02	TP-57	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-03	TP-64	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-04	TP-107	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-05	TP-1008	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2484-06	TP-104	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2486-01	WASTE	Solid	Percent Solids	Cool 4 deg C	CAMP02	A12	07/01/2025	Chemtech -SO
Q2486-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO
Q2486-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	A61	07/01/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: 8690C

Raw Sample Relinquished by: 8690C

Date/Time 07/02/25

Raw Sample Received by: 8690C

Raw Sample Relinquished by: 8690C

WORKLIST(Hardcopy Internal Chain)

136354

WorkList Name : %1-070225

WorkList ID : 190499

Department : Wet-Chemistry

Date : 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2491-01	EO-1-070225	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2491-02	EO-1-070225-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2492-01	VNJ-254-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2492-02	VNJ-254-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	07/02/2025	Chemtech -SO
Q2493-01	WC-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	A43	07/02/2025	Chemtech -SO
Q2493-02	WC-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A43	07/02/2025	Chemtech -SO
Q2493-03	WC-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A43	07/02/2025	Chemtech -SO
Q2494-01	Playhouse/Storage	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-02	Playhouse/Storage	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-03	Garage Seat Foa	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-04	Black foam in Sou	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-05	Kids Room styof	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-06	Kids Room Lower	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-07	Kids Room styof	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-08	Dog Beg Foam	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-09	Cotton Layer - Ott	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-10	Foam Ottoman	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-11	Foyer North Wall	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-12	NE Stucco Exterio	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2494-13	Master Mattress	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/25/2025	Chemtech -SO
Q2495-01	Chair Foam Parke	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 07/02/25 17:13

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

136354

WorkList Name : %1-070225

WorkList ID : 190499

Department : Wet-Chemistry

Date : 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2495-02	SE Bedroom (3rd	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-03	E Bedroom Ceilin	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-04	South East Ceiling	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-05	Master Bathroom	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-06	3rd Fl Hallway N	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-07	SE Bedroom Park	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-08	Family Room SW	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-09	Foyer SE Corner P	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-10	Green Carpet Pad	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-11	Rug in Dining Roo	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-12	LR Couch Cushion	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-13	Dining Room W	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-14	Kitchen Dining E	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-15	Garage Southwes	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-16	Zack's Matterss	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2495-17	Zack's Couch	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2496-02	N exterior center	Solid	Percent Solids	Cool 4 deg C	SUMM04	A53	06/11/2025	Chemtech -SO
Q2496-03	Basement south	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-04	Entertainment ro	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-05	Black mat outside	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-06	Basement bedroom	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO

Date/Time 07/02/25 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 07/02/25

Raw Sample Received by: [Signature]

WORKLIST(Hardcopy Internal Chain)

136354

WorkList Name : %1-070225

WorkList ID : 190499

Department : Wet-Chemistry

Date : 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2496-07	Basement bedroom-1	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-08	Basement bedroom-2	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-09	Maeve's room ma	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-10	Master bedroom	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-11	Master bedroom-1	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-12	Master bedroom-2	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-13	Master bedroom-3	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-14	SE bedroom brow	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-15	SE bedroom gray	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-16	Maeves room gre	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-17	Master bedroom-4	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-18	3rd floor roof ent	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-19	Living room couc	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-20	Living room 2 sea	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-21	Office leather cha	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-22	Pink shoe sole	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-23	Living room rug S	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2496-24	Dining room NE c	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2497-01	SW bedroom (San	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/14/2025	Chemtech -SO
Q2497-02	Salman s room SE	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-03	Sanah s room bed	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO

Date/Time 07/02/25 15:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 07/02/25 17:35
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

NR136354

WorkList Name : %1-070225

WorkList ID : 190499

Department : Wet-Chemistry

Date : 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2497-04	Salman s room m	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-05	Master bed matr	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-06	Kaihaan s room m	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-07	Garage foam yog	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-08	Living room west	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-09	Entrance rug	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-10	south exterior re	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-11	Garage gym floor	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-12	Rug by the back d	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-13	Guest bed matre	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/15/2025	Chemtech -SO
Q2497-14	Garage backyard	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-15	LR SW conner chai	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-16	Living room NE co	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-17	Dining room SW c	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-18	LR SW rug corner	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-19	LR west wall plug	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-20	LR NE corner plug	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-21	office east wall pl	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-22	Bedroom north w	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2497-23	Kitchen ceiling pl	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/13/2025	Chemtech -SO
Q2498-01	NE Bd bed foam	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/20/2025	Chemtech -SO

Date/Time 07/02/25 15:00
 Raw Sample Received by: SR WWC
 Raw Sample Relinquished by: [Signature] SH

Date/Time 07/02/25 17:35
 Raw Sample Received by: [Signature] SH
 Raw Sample Relinquished by: [Signature] SH

WORKLIST(Hardcopy Internal Chain)

136354

WorkList Name : %1-070225

WorkList ID : 190499

Department : Wet-Chemistry

Date : 07-02-2025 08:07:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2498-02	NE Bd pillow foa	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/20/2025	Chemtech -SO
Q2498-03	Master bed NE m	Solid	Percent Solids	Cool 4 deg C	SUMM04	A61	06/20/2025	Chemtech -SO
Q2500-01	X600-B2	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-02	X600-S2	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-03	X600-B1	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-04	X600-S1	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-05	X600-DUP1	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO
Q2500-06	X600-S3	Solid	Percent Solids	Cool 4 deg C	ATCE02	A52	07/02/2025	Chemtech -SO

Date/Time 07/02/25 15:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 07/02/25 17:35
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	07/10/2025
Matrix :	Solid	Extraction Start Time :	09:00
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
Extraction Method:	☐ Separatory Funnel	☐ Continuous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☒ Soxhlet
		Extraction End Date :	07/10/2025
		Extraction End Time :	12:00
		Concentration By:	EH
		Supervisor By :	RUPESH

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	EP2612
Baked Na2SO4	N/A	EP2624
Methylene Chloride	N/A	E3943
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# 2210673.

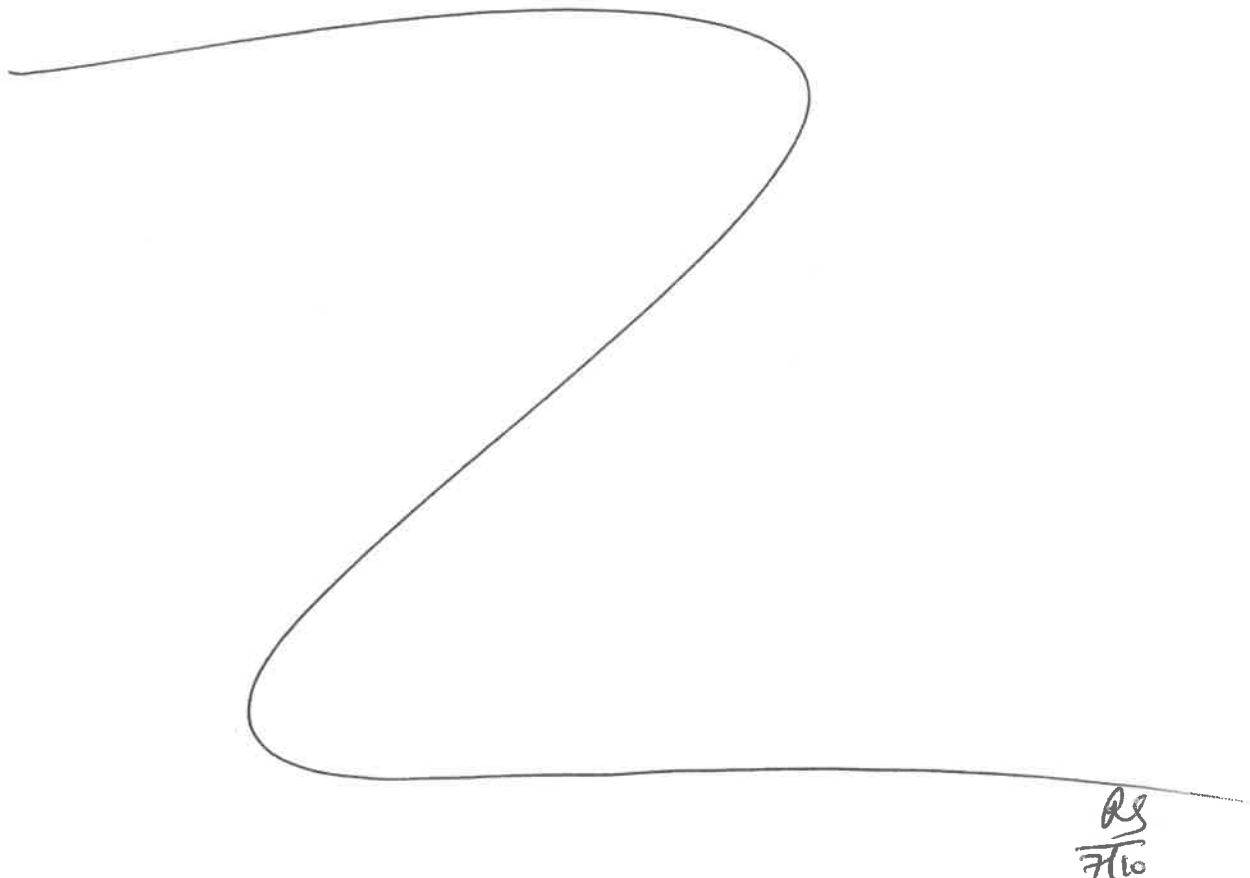
KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/10/25	RS (Ext Lab)	Y-P-pest/PCB
12:05	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 07/10/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168785BL	PB168785BL	TPH GC	30.02	N/A	ritesh	Evelyn	1			U7-1
PB168785BS	PB168785BS	TPH GC	30.01	N/A	ritesh	Evelyn	1			2
Q2473-01	PIT#1	TPH GC	30.05	N/A	ritesh	Evelyn	1	E		3
Q2473-02	PIT#2	TPH GC	30.06	N/A	ritesh	Evelyn	1	E		4
Q2473-03	PIT#3	TPH GC	30.08	N/A	ritesh	Evelyn	1	E		5
Q2473-04	PIT#4	TPH GC	30.03	N/A	ritesh	Evelyn	1	E		6
Q2473-04MS	PIT#4MS	TPH GC	30.05	N/A	ritesh	Evelyn	1	E		U1-1
Q2473-04MS D	PIT#4MSD	TPH GC	30.02	N/A	ritesh	Evelyn	1	E		2
Q2486-01	WASTE	TPH GC	30.04	N/A	ritesh	Evelyn	1			3
Q2504-01	WASTE	TPH GC	30.07	N/A	ritesh	Evelyn	1			4



168785
9:00
584891

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2804 WorkList ID : 190632 Department : Extraction Date : 07-10-2025 08:48:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2473-01	PIT#1	Solid	TPH GC	Cool 4 deg C	JPCL01	--Sele	07/01/2025	8015D
Q2473-02	PIT#2	Solid	TPH GC	Cool 4 deg C	JPCL01	--Sele	07/01/2025	8015D
Q2473-03	PIT#3	Solid	TPH GC	Cool 4 deg C	JPCL01	--Sele	07/01/2025	8015D
Q2473-04	PIT#4	Solid	TPH GC	Cool 4 deg C	JPCL01	--Sele	07/01/2025	8015D
Q2486-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	A61	07/01/2025	8015D
Q2504-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	O12	07/02/2025	8015D

Date/Time 07/10/25 8:55
Raw Sample Received by: RS (FFA-Lab)
Raw Sample Relinquished by: CP

Date/Time 07/10/25 9:10
Raw Sample Received by: CP
Raw Sample Relinquished by: RS (FFA-Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q2486

Test : TPH GC

Prepbatch ID : PB168785,

Sequence ID/Qc Batch ID: FF071025,FG071025,

Standard ID :

EP2612,EP2624,PP24467,PP24468,PP24469,PP24470,PP24471,PP24472,PP24473,PP24583,PP24596,

Chemical ID :

E3551,E3926,E3930,E3931,E3932,E3943,E3951,P11951,P11952,P13106,P13108,P13477,P13479,P13483,P13484,P13485,P13486,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	EP2612	05/09/2025	11/05/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
								05/09/2025

FROM 8000.00000ml of E3930 + 8000.00000ml of E3932 = 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	EP2624	06/26/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel
						(EX-SC-2)		06/26/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
433	100/100 PPM DRO (Restek)	PP24467	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 1.00000ml of P11951 + 1.00000ml of P11952 + 1.00000ml of P13477 + 7.00000ml of E3926 = 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>
3979	100/100 PPM DRO ICV (RESTEK)	PP24468	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 1.00000ml of P13106 + 1.00000ml of P13108 + 1.00000ml of P13479 + 7.00000ml of E3926 = 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)	PP24469	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24467 = 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)	PP24470	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24467 = 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)	PP24471	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24467 = 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)	PP24472	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24469 = 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>
3608	50 PPM ICV DRO STD (RESTEK)	PP24473	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24468 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	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
<u>FROM</u> 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								

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	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	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 #
Restek	31266 / Florida TRPH Standard	A0186840	10/22/2025	04/22/2025 / yogesh	07/11/2022 / Yogesh	P11951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	10/22/2025	04/22/2025 / yogesh	07/11/2022 / Yogesh	P11952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	10/22/2025	04/22/2025 / yogesh	01/12/2024 / Yogesh	P13106

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	10/22/2025	04/22/2025 / yogesh	01/12/2024 / Yogesh	P13108

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	10/22/2025	04/22/2025 / yogesh	07/24/2024 / yogesh	P13477

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	10/22/2025	04/22/2025 / yogesh	07/24/2024 / yogesh	P13479

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 #
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. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

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

avantor



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

Certificate of Analysis

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

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

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

E 3926

J. Croak

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)

avantor



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

J. Croak

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)

avantor



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

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 avantor™



Material No.: 9254-03

Batch No.: 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

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932



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)

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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

E3942

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



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	Additional Information
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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

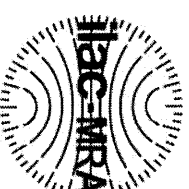
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

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

P11948 } 7.8
P11962 } 07/11/16

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

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

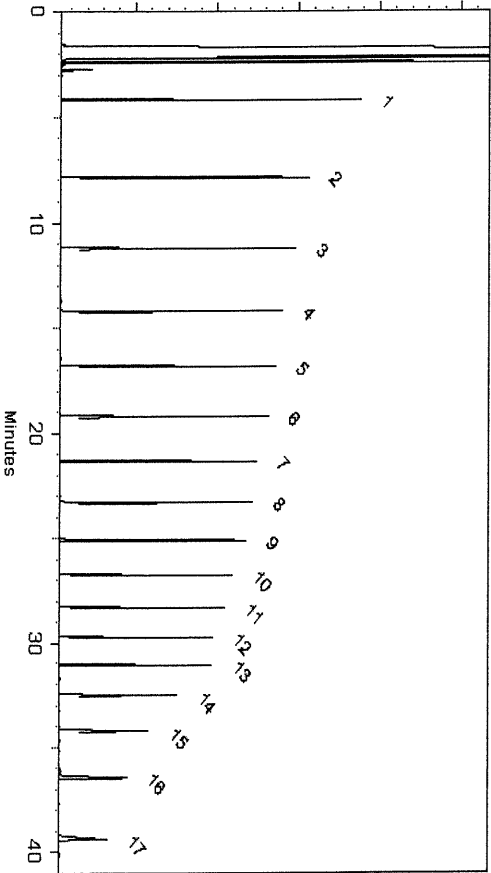
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

- 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

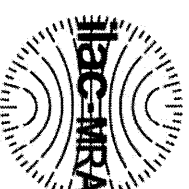
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

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

P11948 } 7.8
P11962 } 07/11/16

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

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

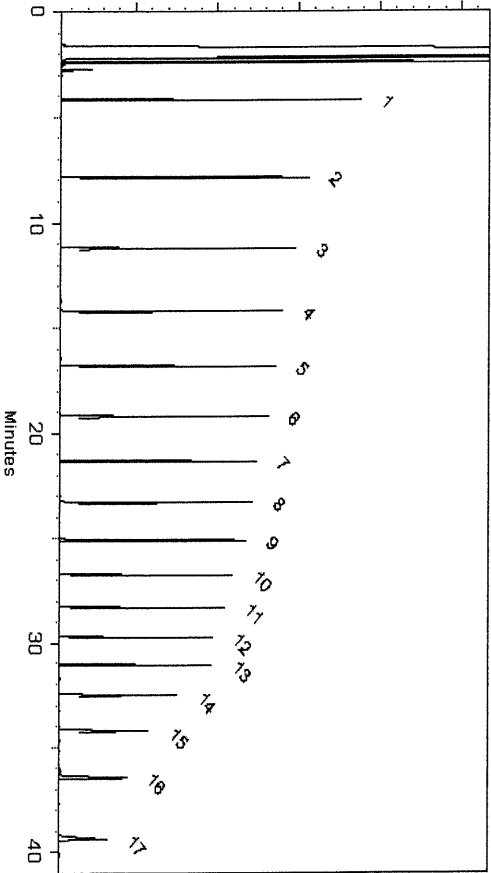
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

- 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.



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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.:** A0204859

Description : Florida TRPH Standard

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

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2030 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.
↓
P13112 } 01/12/2024

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	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

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.)

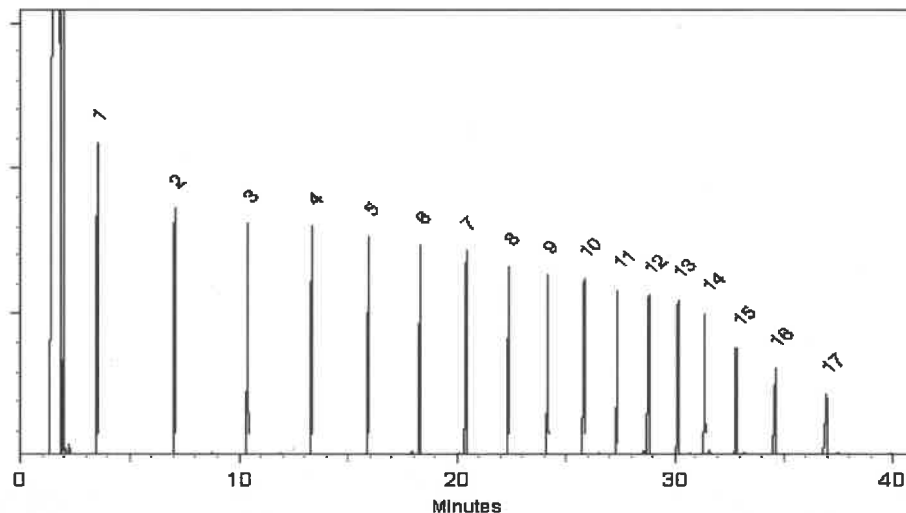
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

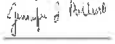


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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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Tel: 1-814-353-1300
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www.restek.com

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.:** A0204859

Description : Florida TRPH Standard

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

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2030 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.
↓
P13112 } 01/12/2024

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	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKQC3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKQC8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKQC4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKQC9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

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.)

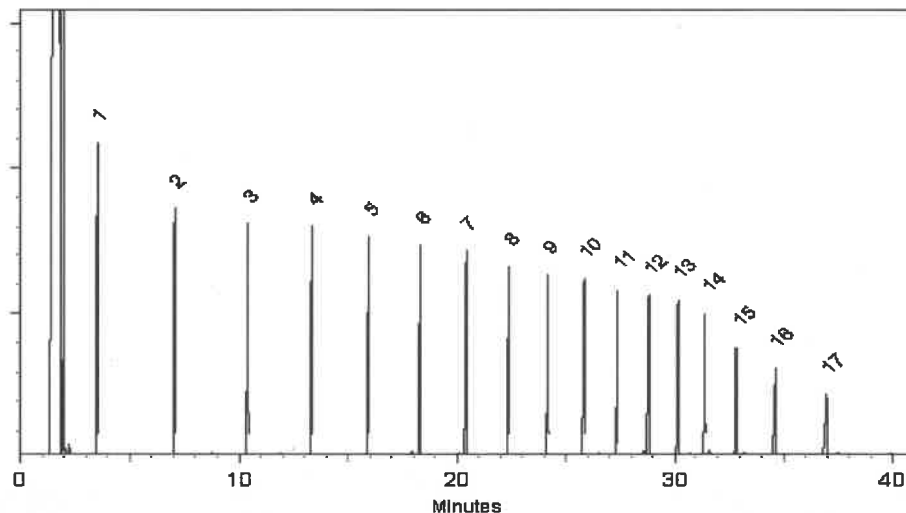
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

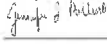


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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.

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
070721
Expiration Date:
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11
Weight(s) shown below were combined and diluted to (mL): 500.0

Solvent(s): Methylene chloride
Lot# 78782

5E-05 Balance Uncertainty
0.058 Peak Uncertainty

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

070716
070716

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

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

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

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

Qualitative Quantitative

3rd Party Comparison

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

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

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



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





CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

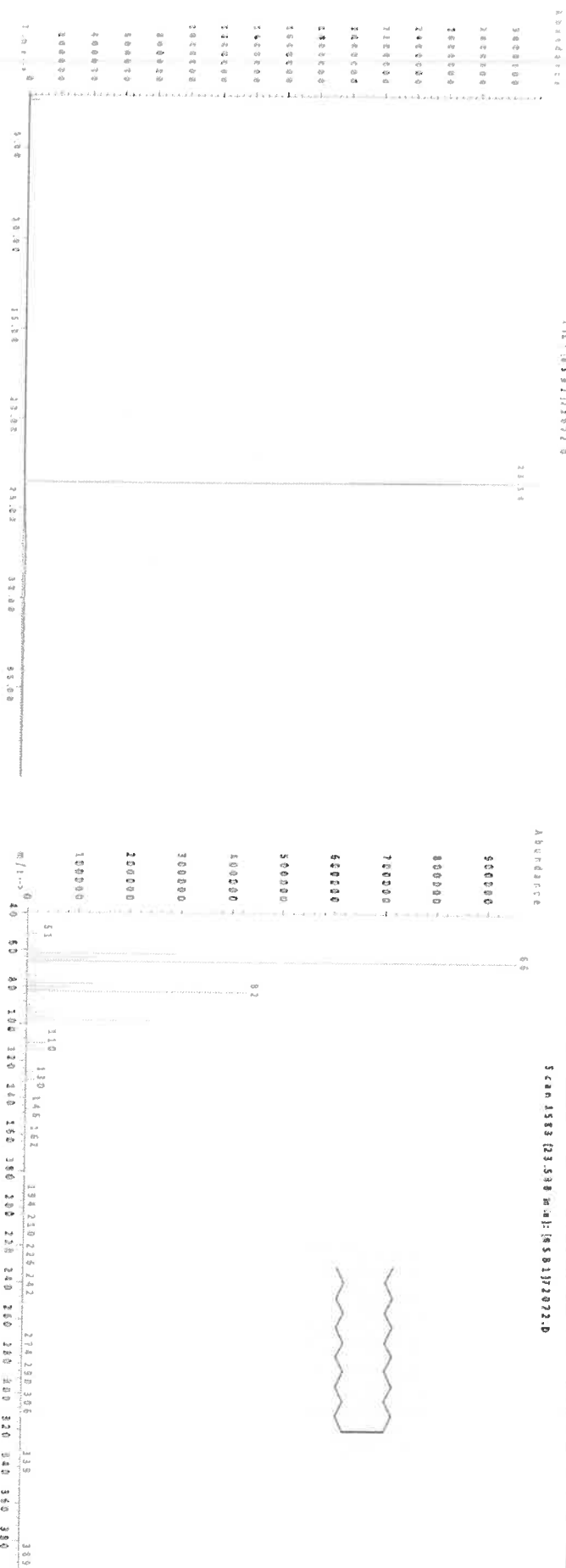
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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, (1996).

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

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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.

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

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

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

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

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	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:
Lot Number:
Description:

72072
101122
n-Tetracosane-d50

Solvent(s):
Methylene chloride

Lot#
105345

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

101132
Ambient (20 °C)
1000
6UB3

SE-05 Balance Uncertainty
0.058 Flask Uncertainty

101132
1000
101122

Formulated By:	Prashant Chauhan	101122
Reviewed By:	Pedro L. Rentas	101122
DATE		

Compound

RM# Lot Number Nominal Conc (µg/mL) Purity (%) Uncertainty (%) Assay (%) Target Weight(g) Actual Weight(g) Actual Conc (µg/mL) Expanded Uncertainty (µg/mL) CAS# OSHA PEL (TWA) LD50

1. n-Tetracosane-d50

2072

PR-26606

1000

98.7

0.2

99.0

0.20471

0.20482

1000.6

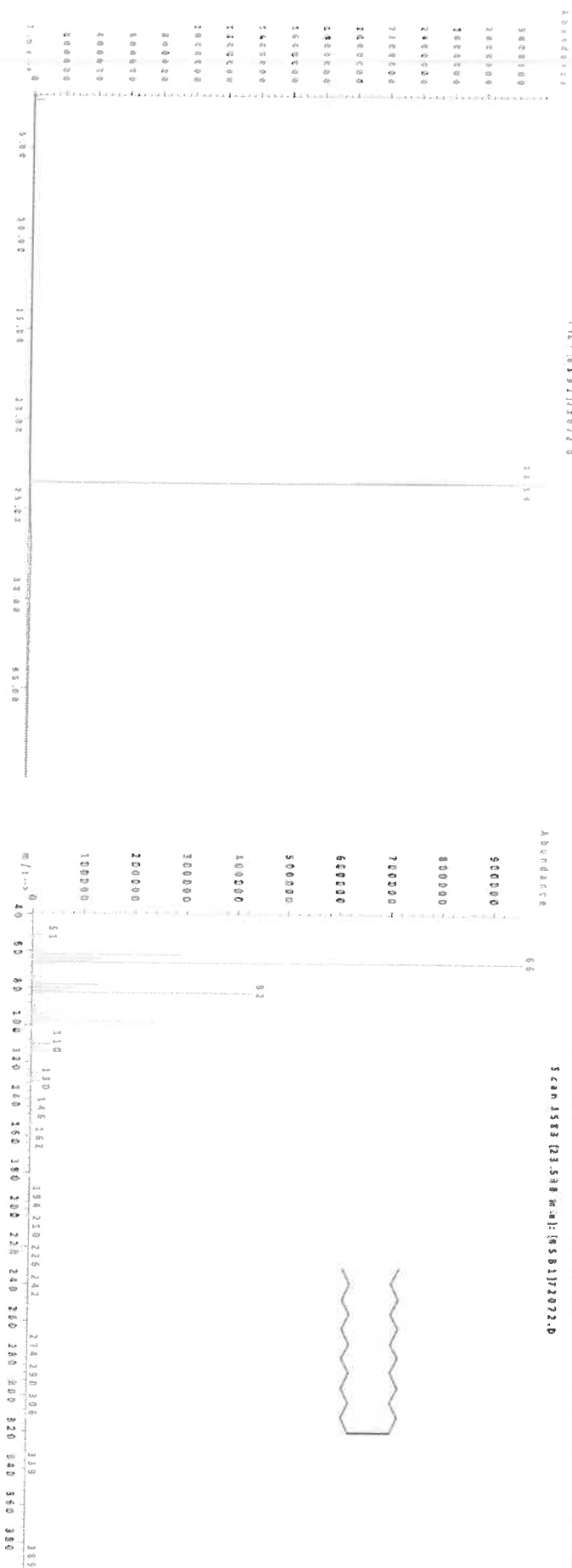
4.1

16416-32-3

N/A

N/A

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



- 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

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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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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
Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11
Weight(s) shown below were combined and diluted to (mL): 500.0

Solvent(s): Methylene chloride
Lot# 78782

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

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

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

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

Qualitative Quantitative

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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

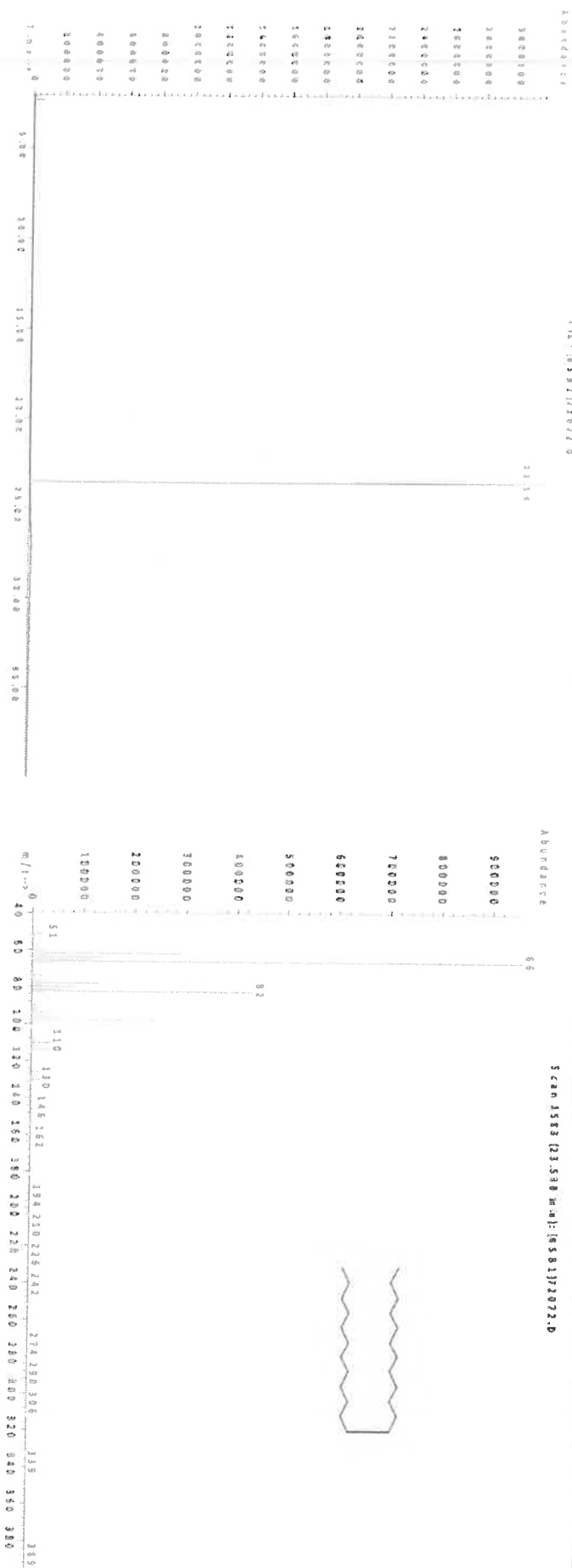
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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.



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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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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.

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



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

Absolute Standards, Inc.
800-368-1131
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)H	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	2.04136	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	2.04159	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	2.04156	4001.2	15.4	1503-58-3	N/A	N/A	N/A

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

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

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

Peak No. Name FID RT (min)

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

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

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

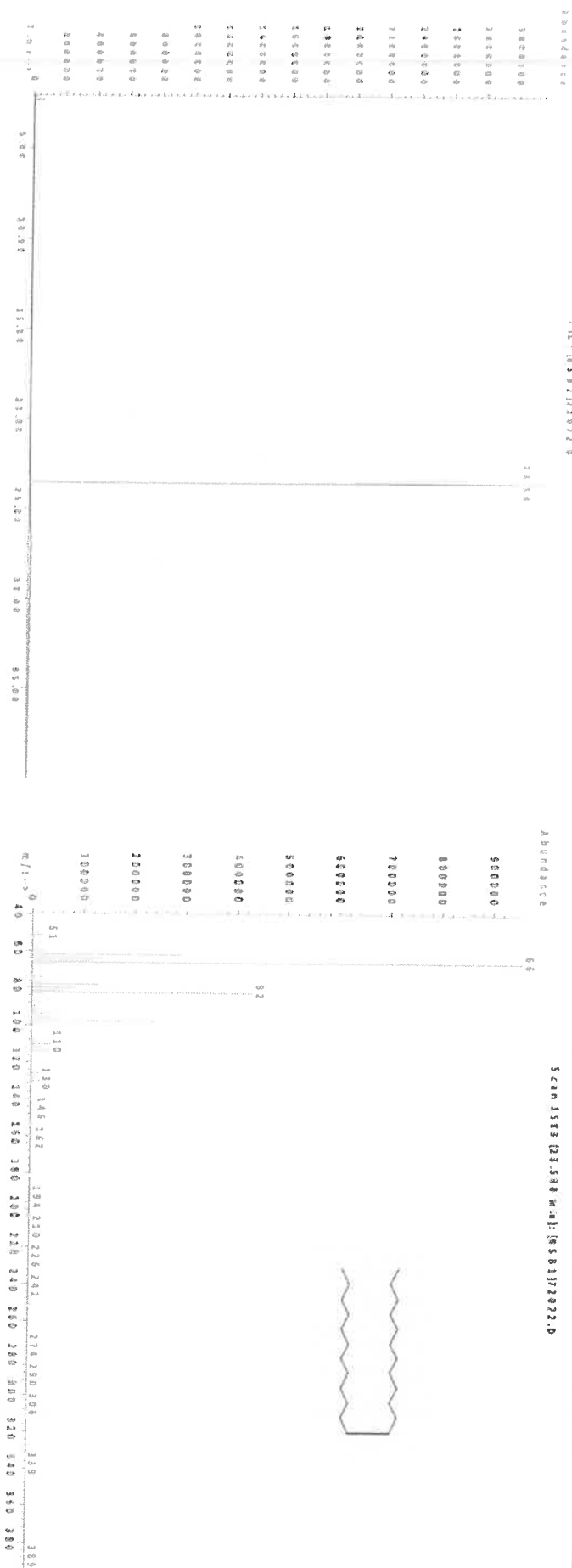
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
07/24/24
X.F.

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

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

1. n-Tetracosane-d50 2072 PR-26606 1000 98.7 0.2 99.0 0.20471 0.20482 1000.6 4.1 16416-32-3 N/A
Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 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)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-nr 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-nr 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-nr 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

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

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

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

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	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

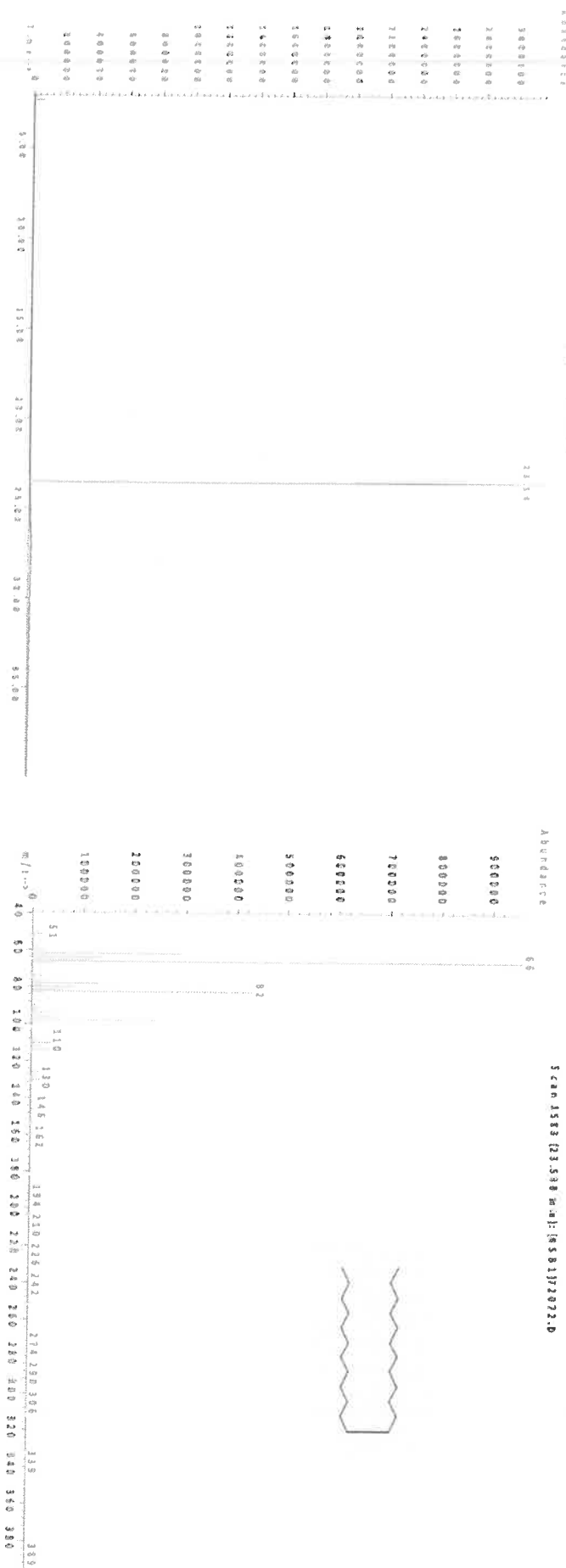
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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



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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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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
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)	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	1148-65-2	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	2.04159	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	2.04158	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

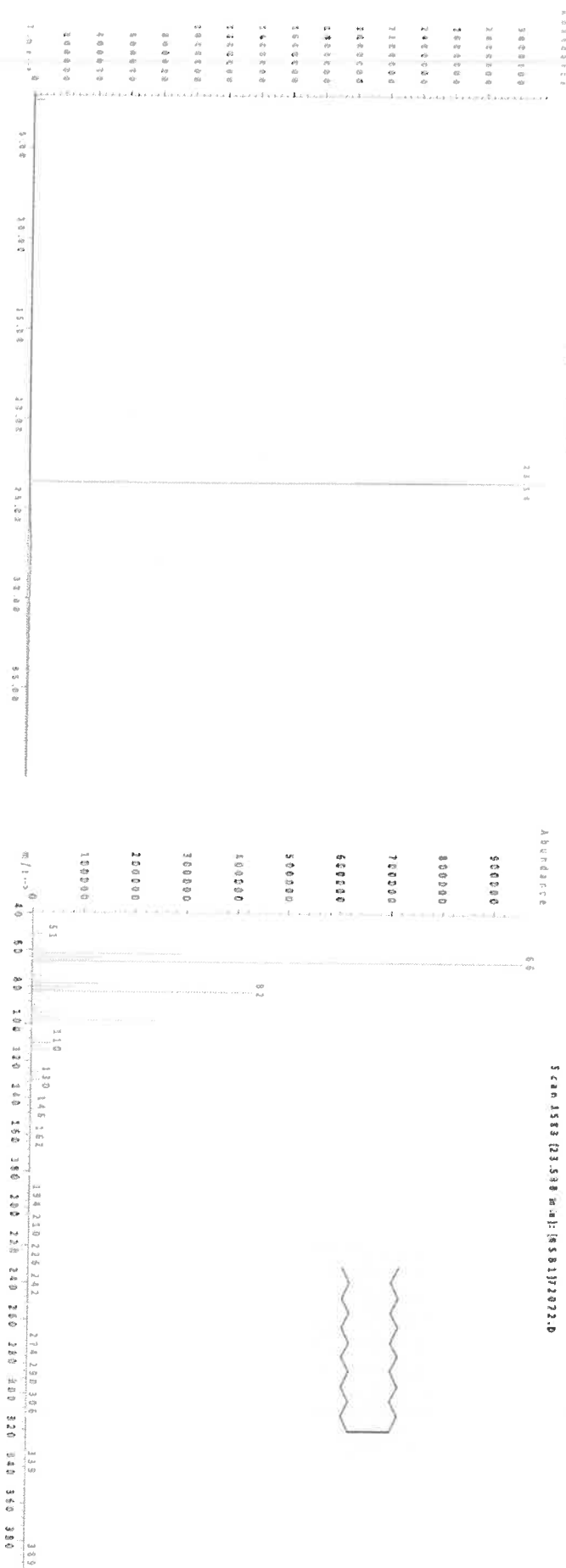
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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.)

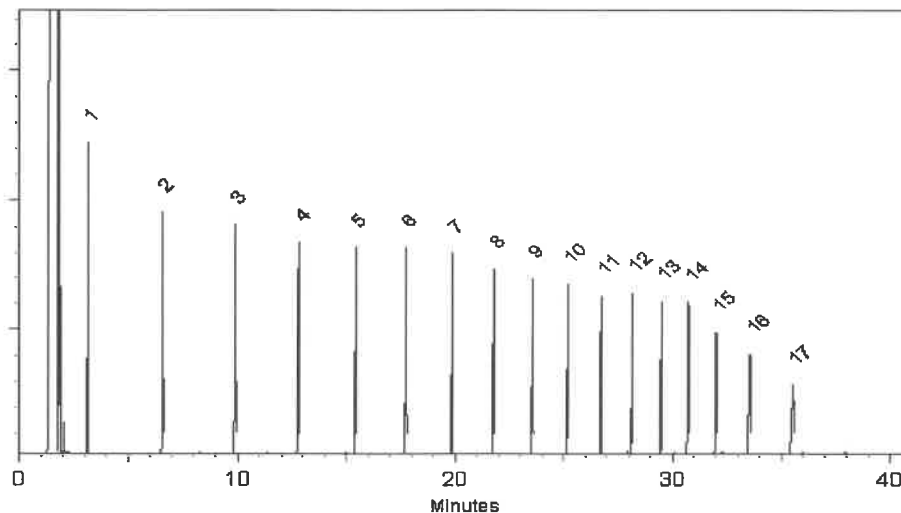
Inj. Temp:
250°C

Det. Temp:
330°C

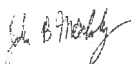
Det. Type:
FID

Split Vent:
2 ml/min.

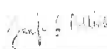
Inj. Vol
1µl



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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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
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P031946
Y.P.
03/07/25

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4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	500.5 µg/mL	+/- 12.9297
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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
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CAS # 110-54-3
Purity 99%

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

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hydrogen-constant pressure 10 psi.

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

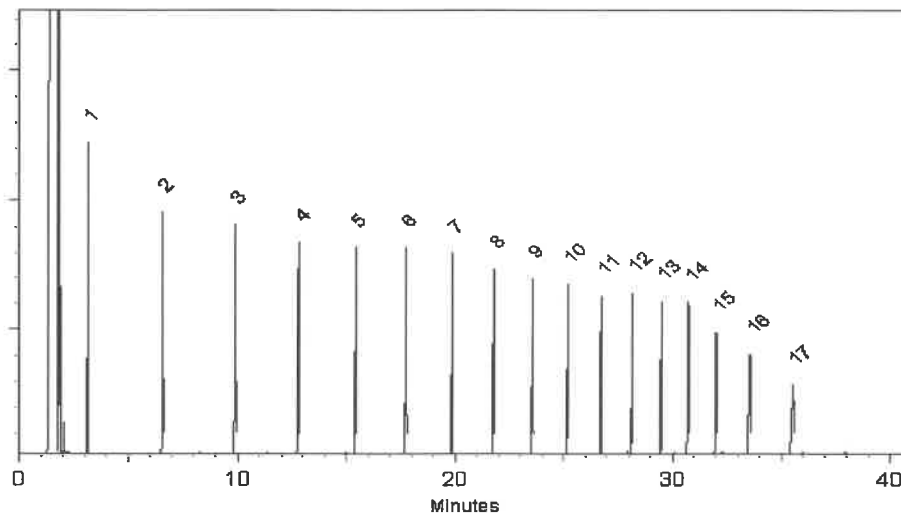
Inj. Temp:
250°C

Det. Temp:
330°C

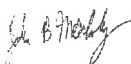
Det. Type:
FID

Split Vent:
2 ml/min.

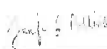
Inj. Vol
1µl



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

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

22486

79. E. Centre St.

CHEMTECH

CHAIN OF CUSTODY RECORD

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

Chemtech Project Number	Notley
COC Number	

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

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2486 SCIA01

Order Date : 7/2/2025 9:45:00 AM

Project Mgr :

Client Name : Sciacca General Contractor

Project Name : 98 Morse Ave Nutley

Report Type : Results Only

Client Contact : Rosanne Scirica

Receive DateTime : 7/1/2025 6:18:00 PM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Sciacca General Contractor

Purchase Order :

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
Q2486-02	VOC	Solid	07/01/2025	09:30	VOC-TCLVOA-10		8260D		10 Bus. Days

JAN

Stored in vault
Ex #102
Attestation

Relinquished By :

Date / Time :

[Signature]
7-2-25 1023

Received By :

Date / Time :

[Signature]
7-2-25 10:30

Storage Area : VOA Refridgerator Room