

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q3216	OrderDate:	9/26/2025 8:55:00 AM
Client:	Sciacca General Contractors, LLC	Project:	256-258 6TH AVE PATERSON
Contact:	Rosanne Scirica	Location:	J41,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3216-01	WASTE	SOIL	TPH GC	8015D	09/25/25	10/01/25	10/01/25	09/25/25



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.: Q3216

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016492.D	71				0
PIBLK-FF016505.D	68				0
PB169938BL	67				0
PB169938BS	66				0
WASTE	66				0
WASTEMS	62				0
WASTEMSD	59				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130

For Soil : 37-130

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate Diluted Out

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Sciacca General Contractors, LLC</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3216</u>
Client Sample ID :	<u>WASTEMS</u>	Datafile:	<u>FF016499.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12658	46600	58393	93%		68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance

Client: Sciacca General Contractors, LLC

Lab Code: ACE

SDG No: Q3216

Client Sample ID : WASTEMSD

Datafile: FF016500.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12679	46600	58286	92%		68-131

MS/MSD % Recovery RPD : 1.1

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

Lab Name: Alliance

Client: Sciacca General Contractors, LLC

Lab Code: ACE

SDG No: Q3216

Client Sample ID : PB169938BS

Datafile: FF016496.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
Petroleum Hydrocarbons	11330	0	8255	73	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169938BL

Lab Name: Alliance

Contract: SCIA01

Lab Code: ACE

SDG NO.: Q3216

Lab File ID: FF016495.D

Lab Sample ID: PB169938BL

Instrument ID: FF

Date Extracted: 10/01/2025

Matrix: (soil/water) Soil

Date Analyzed: 10/01/25

Level: (low/med) low

Time Analyzed: 16:53

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169938BS	PB169938BS	FF016496.D	10/01/25
WASTE	Q3216-01	FF016498.D	10/01/25
WASTEMS	Q3216-01MS	FF016499.D	10/01/25
WASTEMSD	Q3216-01MSD	FF016500.D	10/01/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	WASTE	SDG No.:	Q3216
Lab Sample ID:	Q3216-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	89.3
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016498.D	1	10/01/25 10:40	10/01/25 18:23	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	46600		429	3160	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.2		37 - 130	66%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016498.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 18:23
Operator : YP\AJ
Sample : Q3216-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Oct 03 06:43:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.069	1703327	13.154 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

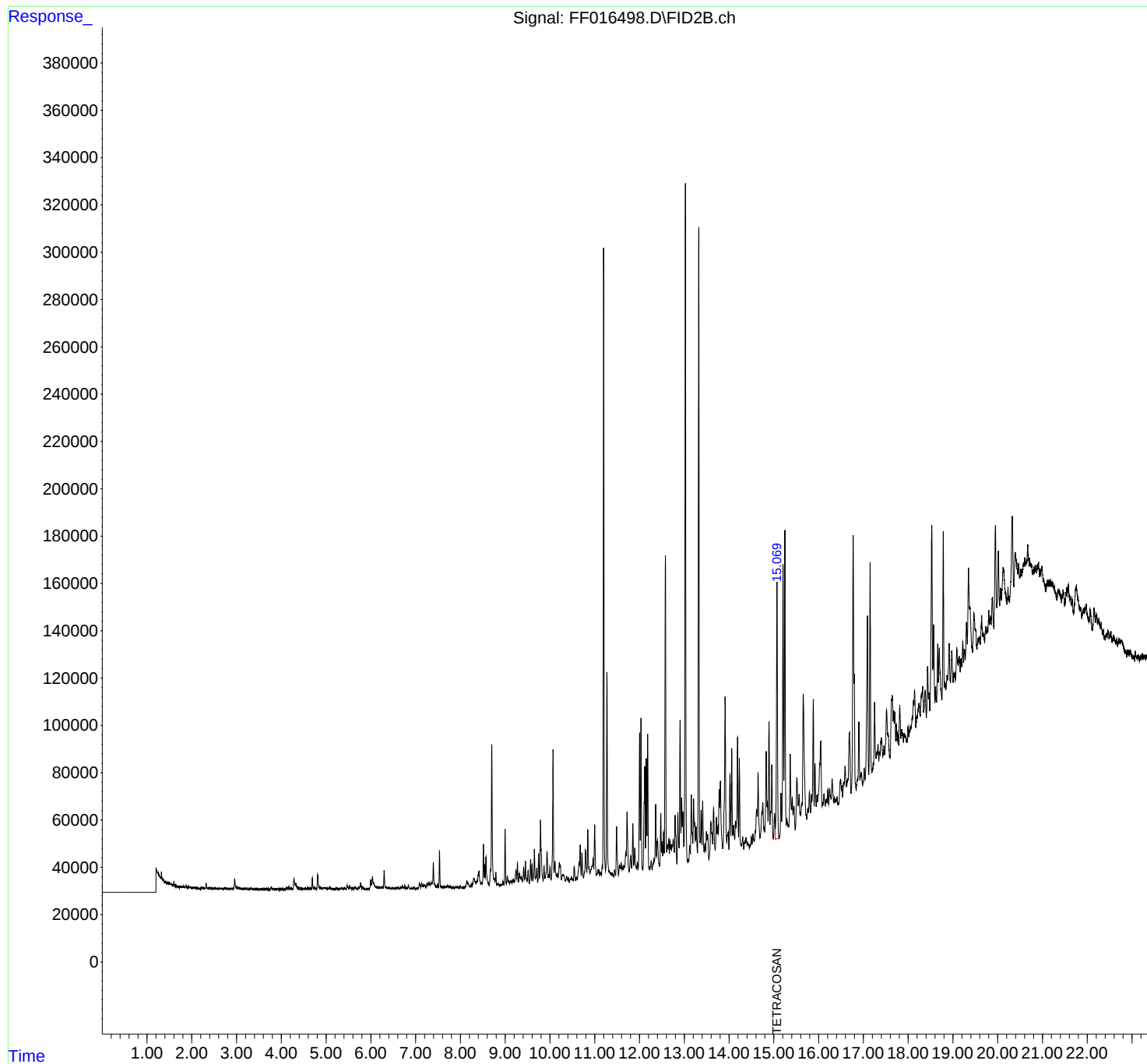
(m)=manual int.

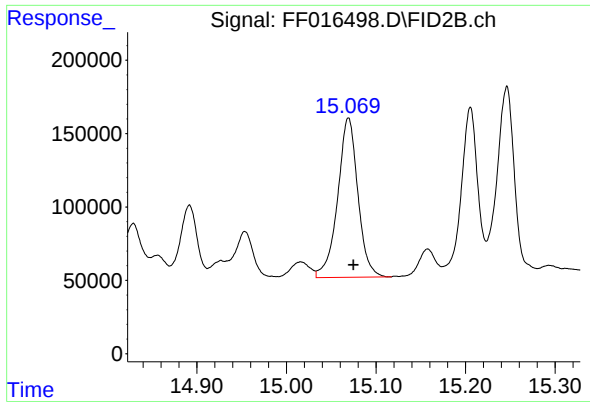
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016498.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 18:23
Operator : YP\AJ
Sample : Q3216-01
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Oct 03 06:43:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.069 min
Delta R.T.: -0.005 min
Response: 1703327
Conc: 13.15 ug/ml

Instrument :
FID_F
ClientSampleId :
WASTE

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016498.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 18:23
 Sample : Q3216-01
 Misc :
 ALS Vial : 74 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.925	1.900	1.948	BV	403	4363	0.12%	0.003%
2	1.971	1.948	2.007	VV	261	3638	0.10%	0.002%
3	2.010	2.007	2.033	PV	79	318	0.01%	0.000%
4	2.051	2.033	2.098	VV	336	5023	0.14%	0.003%
5	2.103	2.098	2.113	VV	145	580	0.02%	0.000%
6	2.123	2.113	2.142	PV	182	2026	0.06%	0.001%
7	2.144	2.142	2.155	VV	105	504	0.01%	0.000%
8	2.163	2.155	2.181	PV	128	1264	0.04%	0.001%
9	2.185	2.181	2.193	VV	148	555	0.02%	0.000%
10	2.202	2.193	2.213	PV	141	730	0.02%	0.000%
11	2.237	2.213	2.285	VV	350	7336	0.21%	0.005%
12	2.290	2.285	2.297	VV	83	522	0.01%	0.000%
13	2.321	2.297	2.367	VV	2278	25220	0.71%	0.016%
14	2.380	2.367	2.390	VV	290	2432	0.07%	0.002%
15	2.403	2.390	2.438	VV	414	6744	0.19%	0.004%
16	2.443	2.438	2.450	VV	194	831	0.02%	0.001%
17	2.454	2.450	2.488	VV	229	4332	0.12%	0.003%
18	2.514	2.488	2.536	VV	285	6190	0.17%	0.004%
19	2.541	2.536	2.568	VV	197	2783	0.08%	0.002%
20	2.571	2.568	2.591	VV	151	1318	0.04%	0.001%
21	2.621	2.591	2.639	VV	375	5180	0.14%	0.003%
22	2.642	2.639	2.713	VV	247	4968	0.14%	0.003%
23	2.734	2.713	2.739	PV	422	4134	0.12%	0.003%
24	2.742	2.739	2.788	VV	464	6482	0.18%	0.004%
25	2.799	2.788	2.849	VV	295	4873	0.14%	0.003%
26	2.866	2.849	2.874	VV	145	1616	0.05%	0.001%

				rteres				
27	2.876	2.874	2.881	VV	163	497	0.01%	0.000%
28	2.888	2.881	2.897	VV	123	1094	0.03%	0.001%
29	2.902	2.897	2.909	VV	102	443	0.01%	0.000%
30	2.927	2.909	2.935	VV	368	3584	0.10%	0.002%
31	2.957	2.935	2.998	VV	4314	71094	1.99%	0.044%
32	3.008	2.998	3.037	VV	878	14755	0.41%	0.009%
33	3.052	3.037	3.084	VV	618	11497	0.32%	0.007%
34	3.089	3.084	3.118	VV	352	5263	0.15%	0.003%
35	3.122	3.118	3.129	VV	216	1443	0.04%	0.001%
36	3.137	3.129	3.142	VV	221	1480	0.04%	0.001%
37	3.153	3.142	3.157	VV	255	1950	0.05%	0.001%
38	3.168	3.157	3.204	VV	385	7733	0.22%	0.005%
39	3.222	3.204	3.269	VV	399	8094	0.23%	0.005%
40	3.276	3.269	3.288	VV	185	1435	0.04%	0.001%
41	3.290	3.288	3.300	VV	170	843	0.02%	0.001%
42	3.318	3.300	3.353	VV	753	12185	0.34%	0.008%
43	3.355	3.353	3.398	VV	252	3424	0.10%	0.002%
44	3.403	3.398	3.420	VV	180	1505	0.04%	0.001%
45	3.432	3.420	3.476	VV	268	4052	0.11%	0.003%
46	3.491	3.476	3.503	PV	95	1090	0.03%	0.001%
47	3.519	3.503	3.530	VV	163	1710	0.05%	0.001%
48	3.535	3.530	3.541	VV	383	1220	0.03%	0.001%
49	3.546	3.541	3.583	VV	181	2669	0.07%	0.002%
50	3.608	3.583	3.619	PV	304	3207	0.09%	0.002%
51	3.622	3.619	3.629	VV	181	705	0.02%	0.000%
52	3.645	3.629	3.653	VV	197	2225	0.06%	0.001%
53	3.670	3.653	3.697	VV	247	4458	0.12%	0.003%
54	3.700	3.697	3.713	VV	114	863	0.02%	0.001%
55	3.716	3.713	3.727	VV	181	600	0.02%	0.000%
56	3.733	3.727	3.739	VV	90	441	0.01%	0.000%
57	3.774	3.739	3.800	VV	791	13969	0.39%	0.009%
58	3.802	3.800	3.831	VV	383	4286	0.12%	0.003%
59	3.841	3.831	3.882	VV	250	4703	0.13%	0.003%
60	3.888	3.882	3.895	VV	79	596	0.02%	0.000%
61	3.910	3.895	3.921	VV	347	3316	0.09%	0.002%
62	3.934	3.921	3.954	VV	242	3004	0.08%	0.002%
63	3.959	3.954	3.966	VV	168	719	0.02%	0.000%
64	3.970	3.966	3.982	PV	78	403	0.01%	0.000%
65	3.991	3.982	3.995	PV	102	687	0.02%	0.000%
66	4.005	3.995	4.025	VV	300	3409	0.10%	0.002%
67	4.051	4.025	4.064	VV	162	1996	0.06%	0.001%
68	4.072	4.064	4.076	VV	64	480	0.01%	0.000%
69	4.083	4.076	4.088	VV	105	557	0.02%	0.000%
70	4.121	4.088	4.148	VV	855	15908	0.45%	0.010%

rtres

71	4.166	4.148	4.197	VV	1308	19472	0.54%	0.012%
72	4.203	4.197	4.212	VV	434	3491	0.10%	0.002%
73	4.223	4.212	4.260	VV	509	8566	0.24%	0.005%
74	4.281	4.260	4.310	VV	4671	78168	2.19%	0.049%
75	4.323	4.310	4.373	VV	2594	53967	1.51%	0.034%
76	4.389	4.373	4.437	VV	676	17196	0.48%	0.011%
77	4.448	4.437	4.471	VV	332	4990	0.14%	0.003%
78	4.493	4.471	4.506	VV	252	3714	0.10%	0.002%
79	4.536	4.506	4.563	VV	356	6484	0.18%	0.004%
80	4.584	4.563	4.604	VV	667	7847	0.22%	0.005%
81	4.621	4.604	4.636	VV	433	4294	0.12%	0.003%
82	4.657	4.636	4.670	VV	293	3306	0.09%	0.002%
83	4.692	4.670	4.723	VV	4844	51985	1.45%	0.032%
84	4.744	4.723	4.764	VV	671	9531	0.27%	0.006%
85	4.772	4.764	4.786	PV	90	545	0.02%	0.000%
86	4.811	4.786	4.890	PV	6150	102857	2.88%	0.064%
87	4.892	4.890	4.918	VV	411	4368	0.12%	0.003%
88	4.947	4.918	4.965	VV	630	10494	0.29%	0.007%
89	4.969	4.965	5.015	VV	433	7730	0.22%	0.005%
90	5.022	5.015	5.049	VB	202	1509	0.04%	0.001%
91	5.087	5.052	5.120	BV	758	14330	0.40%	0.009%
92	5.126	5.120	5.130	VV	183	916	0.03%	0.001%
93	5.141	5.130	5.160	VV	196	2324	0.07%	0.001%
94	5.164	5.160	5.184	VV	84	669	0.02%	0.000%
95	5.206	5.184	5.219	PV	306	3824	0.11%	0.002%
96	5.238	5.219	5.274	VV	446	7371	0.21%	0.005%
97	5.290	5.274	5.317	VV	447	6915	0.19%	0.004%
98	5.342	5.317	5.363	VV	885	12473	0.35%	0.008%
99	5.379	5.363	5.390	VV	437	5031	0.14%	0.003%
100	5.404	5.390	5.417	VV	426	5458	0.15%	0.003%
101	5.428	5.417	5.450	VV	417	4399	0.12%	0.003%
102	5.469	5.450	5.508	VV	1880	31442	0.88%	0.020%
103	5.528	5.508	5.579	VV	1666	29649	0.83%	0.018%
104	5.589	5.579	5.614	VV	416	6668	0.19%	0.004%
105	5.631	5.614	5.644	VV	673	7476	0.21%	0.005%
106	5.658	5.644	5.702	VV	929	14154	0.40%	0.009%
107	5.725	5.702	5.741	PV	944	11760	0.33%	0.007%
108	5.772	5.741	5.803	VV	2368	46278	1.29%	0.029%
109	5.817	5.803	5.873	VV	1145	19663	0.55%	0.012%
110	5.876	5.873	5.891	VV	112	526	0.01%	0.000%
111	5.917	5.891	5.944	PV	324	4110	0.12%	0.003%
112	5.952	5.944	5.959	PV	104	585	0.02%	0.000%
113	5.997	5.959	6.015	VV	4101	59134	1.65%	0.037%

				rteres				
114	6.037	6.015	6.053	VV	5317	82563	2.31%	0.051%
115	6.060	6.053	6.088	VV	2746	44576	1.25%	0.028%
116	6.091	6.088	6.108	VV	1452	14065	0.39%	0.009%
117	6.114	6.108	6.122	VV	1032	7591	0.21%	0.005%
118	6.137	6.122	6.159	VV	1107	19609	0.55%	0.012%
119	6.164	6.159	6.182	VV	744	8809	0.25%	0.005%
120	6.197	6.182	6.217	VV	776	13902	0.39%	0.009%
121	6.233	6.217	6.243	VV	806	10695	0.30%	0.007%
122	6.254	6.243	6.276	VV	971	14982	0.42%	0.009%
123	6.296	6.276	6.335	VV	7952	102217	2.86%	0.064%
124	6.342	6.335	6.363	VV	924	10816	0.30%	0.007%
125	6.375	6.363	6.389	VV	648	7787	0.22%	0.005%
126	6.402	6.389	6.429	VV	952	13999	0.39%	0.009%
127	6.443	6.429	6.458	VV	456	5703	0.16%	0.004%
128	6.484	6.458	6.515	VV	580	11635	0.33%	0.007%
129	6.527	6.515	6.537	VV	336	3843	0.11%	0.002%
130	6.548	6.537	6.576	VV	464	7530	0.21%	0.005%
131	6.598	6.576	6.636	VV	846	14976	0.42%	0.009%
132	6.647	6.636	6.652	VV	392	2716	0.08%	0.002%
133	6.669	6.652	6.686	VV	792	12210	0.34%	0.008%
134	6.705	6.686	6.744	VV	1510	28542	0.80%	0.018%
135	6.760	6.744	6.780	VV	1403	17141	0.48%	0.011%
136	6.792	6.780	6.808	VV	466	5027	0.14%	0.003%
137	6.837	6.808	6.865	VV	1475	21943	0.61%	0.014%
138	6.869	6.865	6.887	VV	254	2710	0.08%	0.002%
139	6.891	6.887	6.897	VV	185	958	0.03%	0.001%
140	6.911	6.897	6.931	VV	420	5397	0.15%	0.003%
141	6.957	6.931	6.997	VV	602	12321	0.34%	0.008%
142	7.017	6.997	7.023	VV	226	2839	0.08%	0.002%
143	7.043	7.023	7.059	VV	386	3849	0.11%	0.002%
144	7.084	7.059	7.116	PV	2201	42857	1.20%	0.027%
145	7.133	7.116	7.156	VV	2465	36867	1.03%	0.023%
146	7.169	7.156	7.183	VV	1677	21478	0.60%	0.013%
147	7.200	7.183	7.230	VV	1793	36193	1.01%	0.023%
148	7.259	7.230	7.277	VV	2142	45494	1.27%	0.028%
149	7.299	7.277	7.325	VV	2569	58608	1.64%	0.036%
150	7.348	7.325	7.362	VV	2540	47467	1.33%	0.030%
151	7.395	7.362	7.417	VV	11135	153255	4.29%	0.095%
152	7.426	7.417	7.471	VV	1968	38961	1.09%	0.024%
153	7.489	7.471	7.509	VV	1785	26267	0.73%	0.016%
154	7.533	7.509	7.568	VV	15731	169416	4.74%	0.105%
155	7.584	7.568	7.596	VV	683	9871	0.28%	0.006%
156	7.607	7.596	7.619	VV	698	7665	0.21%	0.005%

				rteres				
157	7.632	7.619	7.647	VV	828	9903	0.28%	0.006%
158	7.658	7.647	7.680	VV	748	10946	0.31%	0.007%
159	7.712	7.680	7.759	VV	1343	35875	1.00%	0.022%
160	7.773	7.759	7.824	VV	728	16806	0.47%	0.010%
161	7.837	7.824	7.861	VV	389	4663	0.13%	0.003%
162	7.891	7.861	7.908	VV	469	7287	0.20%	0.005%
163	7.925	7.908	7.956	VV	481	8726	0.24%	0.005%
164	7.960	7.956	7.967	VV	211	806	0.02%	0.001%
165	7.998	7.967	8.024	VV	1112	13945	0.39%	0.009%
166	8.052	8.024	8.070	VV	176	1722	0.05%	0.001%
167	8.081	8.070	8.085	PV	164	751	0.02%	0.000%
168	8.140	8.085	8.162	VV	2841	52386	1.47%	0.033%
169	8.170	8.162	8.215	VV	1910	36441	1.02%	0.023%
170	8.239	8.215	8.256	VV	1261	18259	0.51%	0.011%
171	8.297	8.256	8.350	VV	3969	132290	3.70%	0.082%
172	8.367	8.350	8.378	VV	2917	40298	1.13%	0.025%
173	8.394	8.378	8.401	VV	5359	55997	1.57%	0.035%
174	8.414	8.401	8.455	VV	6735	123427	3.45%	0.077%
175	8.469	8.455	8.485	VV	1939	28842	0.81%	0.018%
176	8.514	8.485	8.531	VV	18056	218515	6.11%	0.136%
177	8.543	8.531	8.555	VV	9220	96764	2.71%	0.060%
178	8.571	8.555	8.644	VV	12654	228724	6.40%	0.142%
179	8.670	8.644	8.677	VV	7060	84107	2.35%	0.052%
180	8.700	8.677	8.746	VV	59992	827617	23.16%	0.515%
181	8.754	8.746	8.773	VV	3408	45038	1.26%	0.028%
182	8.791	8.773	8.825	VV	5984	78583	2.20%	0.049%
183	8.841	8.825	8.870	VV	1055	17152	0.48%	0.011%
184	8.950	8.870	8.974	VV	1943	44736	1.25%	0.028%
185	8.998	8.974	9.029	VV	23834	260440	7.29%	0.162%
186	9.048	9.029	9.097	VV	4139	86177	2.41%	0.054%
187	9.118	9.097	9.129	VV	1937	29192	0.82%	0.018%
188	9.137	9.129	9.152	VV	1756	19570	0.55%	0.012%
189	9.165	9.152	9.179	VV	2362	27898	0.78%	0.017%
190	9.193	9.179	9.210	VV	2000	30598	0.86%	0.019%
191	9.241	9.210	9.258	VV	6356	115652	3.24%	0.072%
192	9.274	9.258	9.299	VV	9310	115499	3.23%	0.072%
193	9.317	9.299	9.339	VV	4876	80585	2.25%	0.050%
194	9.349	9.339	9.356	VV	3175	32098	0.90%	0.020%
195	9.365	9.356	9.385	VV	3428	43461	1.22%	0.027%
196	9.413	9.385	9.433	VV	7469	111473	3.12%	0.069%
197	9.452	9.433	9.489	VV	10015	145348	4.07%	0.090%
198	9.512	9.489	9.540	VV	5865	87650	2.45%	0.055%
199	9.568	9.540	9.586	VV	10459	134915	3.77%	0.084%
200	9.601	9.586	9.620	VV	8343	90696	2.54%	0.056%

rters

201	9.653	9.620	9.674	VV	14837	209107	5.85%	0.130%
202	9.685	9.674	9.690	VV	3188	27346	0.77%	0.017%
203	9.705	9.690	9.727	VV	6659	83563	2.34%	0.052%
204	9.748	9.727	9.767	VV	12710	148973	4.17%	0.093%
205	9.789	9.767	9.848	VV	26984	483588	13.53%	0.301%
206	9.868	9.848	9.884	VV	7243	90297	2.53%	0.056%
207	9.935	9.884	9.960	VV	13193	268198	7.50%	0.167%
208	9.971	9.960	9.983	VV	3577	41706	1.17%	0.026%
209	10.000	9.983	10.022	VV	6913	97304	2.72%	0.061%
210	10.068	10.022	10.092	VV	56299	724452	20.27%	0.451%
211	10.111	10.092	10.154	VV	9163	196185	5.49%	0.122%
212	10.165	10.154	10.182	VV	3824	52079	1.46%	0.032%
213	10.211	10.182	10.224	VV	8679	147117	4.12%	0.092%
214	10.232	10.224	10.258	VV	7422	90531	2.53%	0.056%
215	10.276	10.258	10.282	VV	2957	33603	0.94%	0.021%
216	10.290	10.282	10.303	VV	3325	38520	1.08%	0.024%
217	10.310	10.303	10.341	VV	3097	45397	1.27%	0.028%
218	10.372	10.341	10.397	VV	2566	48448	1.36%	0.030%
219	10.412	10.397	10.430	VV	1894	22578	0.63%	0.014%
220	10.458	10.430	10.469	PV	1323	18457	0.52%	0.011%
221	10.483	10.469	10.520	VV	2018	37862	1.06%	0.024%
222	10.541	10.520	10.572	VV	6487	96861	2.71%	0.060%
223	10.588	10.572	10.611	VV	1748	26645	0.75%	0.017%
224	10.648	10.611	10.657	VV	7844	126901	3.55%	0.079%
225	10.675	10.657	10.697	VV	15152	213340	5.97%	0.133%
226	10.714	10.697	10.748	VV	11638	161328	4.51%	0.100%
227	10.768	10.748	10.773	VV	3362	34775	0.97%	0.022%
228	10.793	10.773	10.825	VV	12661	225883	6.32%	0.141%
229	10.844	10.825	10.896	VV	21287	359193	10.05%	0.224%
230	10.962	10.896	10.976	VV	8754	253317	7.09%	0.158%
231	10.998	10.976	11.040	VV	22922	366971	10.27%	0.228%
232	11.069	11.040	11.085	VV	3669	68445	1.92%	0.043%
233	11.094	11.085	11.110	VV	3766	40891	1.14%	0.025%
234	11.124	11.110	11.130	VV	2164	21937	0.61%	0.014%
235	11.135	11.130	11.149	VV	2124	21377	0.60%	0.013%
236	11.165	11.149	11.173	VV	5094	49558	1.39%	0.031%
237	11.198	11.173	11.240	VV	266395	2859574	80.01%	1.780%
238	11.272	11.240	11.315	VV	86688	1081034	30.25%	0.673%
239	11.325	11.315	11.341	VV	2804	36462	1.02%	0.023%
240	11.347	11.341	11.361	VV	1712	17652	0.49%	0.011%
241	11.375	11.361	11.391	VV	1472	22362	0.63%	0.014%
242	11.405	11.391	11.421	VV	1008	11666	0.33%	0.007%
243	11.444	11.421	11.466	PV	2761	34177	0.96%	0.021%

					rteres			
244	11.487	11.466	11.529	VV	21022	303830	8.50%	0.189%
245	11.558	11.529	11.571	VV	3945	68396	1.91%	0.043%
246	11.591	11.571	11.613	VV	5192	91278	2.55%	0.057%
247	11.626	11.613	11.636	VV	3440	38800	1.09%	0.024%
248	11.650	11.636	11.659	VV	3790	42787	1.20%	0.027%
249	11.691	11.659	11.700	VV	9153	144743	4.05%	0.090%
250	11.721	11.700	11.766	VV	26414	461892	12.92%	0.288%
251	11.801	11.766	11.822	VV	7549	142689	3.99%	0.089%
252	11.851	11.822	11.872	VV	21007	294096	8.23%	0.183%
253	11.893	11.872	11.937	VV	10259	194695	5.45%	0.121%
254	11.954	11.937	11.970	VV	4218	55189	1.54%	0.034%
255	12.002	11.970	12.017	VV	58772	720683	20.16%	0.449%
256	12.032	12.017	12.072	VV	64491	735854	20.59%	0.458%
257	12.117	12.072	12.133	VV	44263	759520	21.25%	0.473%
258	12.151	12.133	12.165	VV	47560	569285	15.93%	0.354%
259	12.181	12.165	12.213	VV	57766	703699	19.69%	0.438%
260	12.225	12.213	12.235	VV	1178	11953	0.33%	0.007%
261	12.260	12.235	12.281	VV	3699	53269	1.49%	0.033%
262	12.325	12.281	12.335	VV	4654	84557	2.37%	0.053%
263	12.361	12.335	12.380	VV	27458	360701	10.09%	0.225%
264	12.403	12.380	12.450	VV	12304	267806	7.49%	0.167%
265	12.475	12.450	12.492	VV	23429	293740	8.22%	0.183%
266	12.505	12.492	12.520	VV	11224	141139	3.95%	0.088%
267	12.537	12.520	12.552	VV	15039	198682	5.56%	0.124%
268	12.578	12.552	12.607	VV	131835	1754556	49.09%	1.092%
269	12.622	12.607	12.637	VV	8997	147197	4.12%	0.092%
270	12.652	12.637	12.667	VV	11682	170304	4.77%	0.106%
271	12.682	12.667	12.695	VV	11580	149450	4.18%	0.093%
272	12.705	12.695	12.716	VV	9236	100852	2.82%	0.063%
273	12.729	12.716	12.736	VV	9184	102873	2.88%	0.064%
274	12.754	12.736	12.777	VV	11393	227179	6.36%	0.141%
275	12.795	12.777	12.834	VV	21437	382418	10.70%	0.238%
276	12.856	12.834	12.884	VV	21863	350234	9.80%	0.218%
277	12.906	12.884	12.925	VV	61335	790097	22.11%	0.492%
278	12.940	12.925	12.957	VV	28388	412129	11.53%	0.257%
279	12.970	12.957	12.991	VV	22440	325913	9.12%	0.203%
280	13.025	12.991	13.069	VV	287859	3573996	100.00%	2.225%
281	13.082	13.069	13.097	VV	1872	23508	0.66%	0.015%
282	13.121	13.097	13.137	VV	7670	109986	3.08%	0.068%
283	13.157	13.137	13.192	VV	28961	513686	14.37%	0.320%
284	13.209	13.192	13.225	VV	27012	370724	10.37%	0.231%
285	13.231	13.225	13.248	VV	16335	183613	5.14%	0.114%
286	13.264	13.248	13.295	VV	15206	288765	8.08%	0.180%

					rteres			
287	13.323	13.295	13.360	VV	268397	3171630	88.74%	1.975%
288	13.377	13.360	13.393	VV	21582	282018	7.89%	0.176%
289	13.410	13.393	13.441	VV	25443	381453	10.67%	0.237%
290	13.459	13.441	13.477	VV	7184	116843	3.27%	0.073%
291	13.494	13.477	13.506	VV	12342	153606	4.30%	0.096%
292	13.522	13.506	13.550	VV	10888	187266	5.24%	0.117%
293	13.592	13.550	13.634	PV	16219	427635	11.97%	0.266%
294	13.654	13.634	13.690	VV	21567	387962	10.86%	0.242%
295	13.718	13.690	13.733	VV	17000	270398	7.57%	0.168%
296	13.749	13.733	13.760	VV	13183	191887	5.37%	0.119%
297	13.781	13.760	13.793	VV	28577	424322	11.87%	0.264%
298	13.806	13.793	13.858	VV	31980	594755	16.64%	0.370%
299	13.911	13.858	13.947	VV	66942	1266865	35.45%	0.789%
300	13.979	13.947	13.997	VV	9291	210183	5.88%	0.131%
301	14.020	13.997	14.039	VV	33291	444952	12.45%	0.277%
302	14.059	14.039	14.082	VV	44393	578990	16.20%	0.360%
303	14.100	14.082	14.125	VV	11442	230091	6.44%	0.143%
304	14.144	14.125	14.157	VV	12966	195764	5.48%	0.122%
305	14.189	14.157	14.210	VV	48249	735752	20.59%	0.458%
306	14.229	14.210	14.271	VV	38967	506010	14.16%	0.315%
307	14.276	14.271	14.282	VV	2412	14999	0.42%	0.009%
308	14.304	14.282	14.328	VV	5519	91960	2.57%	0.057%
309	14.353	14.328	14.359	VV	3031	40210	1.13%	0.025%
310	14.375	14.359	14.405	VV	4911	91898	2.57%	0.057%
311	14.411	14.405	14.417	VV	2199	14694	0.41%	0.009%
312	14.421	14.417	14.434	VV	2083	17757	0.50%	0.011%
313	14.438	14.434	14.455	VV	1457	11273	0.32%	0.007%
314	14.473	14.455	14.477	PV	1085	9033	0.25%	0.006%
315	14.499	14.477	14.514	VV	4410	57310	1.60%	0.036%
316	14.532	14.514	14.563	VV	5480	99080	2.77%	0.062%
317	14.584	14.563	14.590	VV	6643	74901	2.10%	0.047%
318	14.612	14.590	14.631	VV	15463	298908	8.36%	0.186%
319	14.648	14.631	14.691	VV	30337	510341	14.28%	0.318%
320	14.731	14.691	14.737	VV	13131	213142	5.96%	0.133%
321	14.753	14.737	14.788	VV	17288	340596	9.53%	0.212%
322	14.794	14.788	14.798	VV	5554	34308	0.96%	0.021%
323	14.829	14.798	14.849	VV	38601	631466	17.67%	0.393%
324	14.856	14.849	14.870	VV	16538	177420	4.96%	0.110%
325	14.892	14.870	14.912	VV	50679	672757	18.82%	0.419%
326	14.927	14.912	14.931	VV	12586	119054	3.33%	0.074%
327	14.954	14.931	14.991	VV	32045	484853	13.57%	0.302%
328	15.016	14.991	15.033	VV	10996	166169	4.65%	0.103%
329	15.069	15.033	15.117	VV	108708	1706831	47.76%	1.063%
330	15.158	15.117	15.174	PV	18720	245632	6.87%	0.153%

rtres

331	15.205	15.174	15.223	VV	114885	1480225	41.42%	0.922%
332	15.246	15.223	15.280	VV	128911	1766061	49.41%	1.100%
333	15.293	15.280	15.308	VV	6272	85333	2.39%	0.053%
334	15.312	15.308	15.328	VV	3973	42600	1.19%	0.027%
335	15.365	15.328	15.398	VV	33151	590259	16.52%	0.367%
336	15.411	15.398	15.430	VV	14595	211130	5.91%	0.131%
337	15.448	15.430	15.477	VV	10397	179893	5.03%	0.112%
338	15.513	15.477	15.548	PV	21764	500925	14.02%	0.312%
339	15.565	15.548	15.601	VV	13751	287593	8.05%	0.179%
340	15.621	15.601	15.628	VV	9467	127028	3.55%	0.079%
341	15.657	15.628	15.735	VV	55493	1384232	38.73%	0.862%
342	15.757	15.735	15.769	VV	5719	86768	2.43%	0.054%
343	15.794	15.769	15.821	VV	12386	232991	6.52%	0.145%
344	15.839	15.821	15.852	VV	10575	150103	4.20%	0.093%
345	15.881	15.852	15.901	VV	50806	729889	20.42%	0.454%
346	15.919	15.901	15.946	VV	23043	356096	9.96%	0.222%
347	15.964	15.946	15.976	VV	8971	129313	3.62%	0.081%
348	16.044	15.976	16.081	VV	31011	997875	27.92%	0.621%
349	16.119	16.081	16.150	VV	8202	209840	5.87%	0.131%
350	16.169	16.150	16.178	VV	5311	74642	2.09%	0.046%
351	16.182	16.178	16.190	VV	4533	33709	0.94%	0.021%
352	16.207	16.190	16.224	VV	9078	127876	3.58%	0.080%
353	16.247	16.224	16.266	VV	9054	161897	4.53%	0.101%
354	16.269	16.266	16.279	VV	5548	36307	1.02%	0.023%
355	16.302	16.279	16.335	VV	12313	249570	6.98%	0.155%
356	16.354	16.335	16.384	VV	4320	81550	2.28%	0.051%
357	16.412	16.384	16.429	VV	3761	61740	1.73%	0.038%
358	16.434	16.429	16.440	PV	373	2084	0.06%	0.001%
359	16.445	16.440	16.449	VV	594	2402	0.07%	0.001%
360	16.493	16.449	16.509	VV	10110	217193	6.08%	0.135%
361	16.520	16.509	16.537	VV	7222	87456	2.45%	0.054%
362	16.555	16.537	16.566	VV	8112	102787	2.88%	0.064%
363	16.591	16.566	16.620	VV	14246	319865	8.95%	0.199%
364	16.650	16.620	16.660	VV	8470	178650	5.00%	0.111%
365	16.689	16.660	16.724	VV	27367	620087	17.35%	0.386%
366	16.772	16.724	16.790	VV	109731	1704506	47.69%	1.061%
367	16.796	16.790	16.840	VV	51123	562229	15.73%	0.350%
368	16.862	16.840	16.869	VV	5819	73749	2.06%	0.046%
369	16.899	16.869	16.924	VV	29612	453539	12.69%	0.282%
370	16.951	16.924	16.983	VV	7623	196700	5.50%	0.122%
371	17.018	16.983	17.036	VV	8519	160879	4.50%	0.100%
372	17.092	17.036	17.120	VV	72149	1420230	39.74%	0.884%
373	17.151	17.120	17.188	VV	94105	1291788	36.14%	0.804%

				rteres				
374	17.220	17.188	17.229	VV	8618	159519	4.46%	0.099%
375	17.251	17.229	17.278	VV	33854	569156	15.92%	0.354%
376	17.282	17.278	17.286	VV	10636	50958	1.43%	0.032%
377	17.301	17.286	17.310	VV	12069	154537	4.32%	0.096%
378	17.328	17.310	17.346	VV	15095	266588	7.46%	0.166%
379	17.359	17.346	17.375	VV	11337	184487	5.16%	0.115%
380	17.401	17.375	17.436	VV	16857	494269	13.83%	0.308%
381	17.460	17.436	17.473	VV	12947	235780	6.60%	0.147%
382	17.517	17.473	17.549	VV	27403	822454	23.01%	0.512%
383	17.552	17.549	17.589	VV	16672	284832	7.97%	0.177%
384	17.642	17.589	17.664	VV	32033	977126	27.34%	0.608%
385	17.678	17.664	17.691	VV	25211	367403	10.28%	0.229%
386	17.700	17.691	17.725	VV	24208	376989	10.55%	0.235%
387	17.737	17.725	17.754	VV	18499	269641	7.54%	0.168%
388	17.766	17.754	17.787	VV	14894	252139	7.05%	0.157%
389	17.812	17.787	17.836	VV	25840	527315	14.75%	0.328%
390	17.856	17.836	17.873	VV	15251	302042	8.45%	0.188%
391	17.880	17.873	17.895	VV	13584	149386	4.18%	0.093%
392	17.914	17.895	17.926	VV	12755	216762	6.06%	0.135%
393	17.930	17.926	17.963	VV	12038	231409	6.47%	0.144%
394	17.970	17.963	17.974	VV	9140	56909	1.59%	0.035%
395	17.997	17.974	18.013	VV	14644	273610	7.66%	0.170%
396	18.048	18.013	18.053	VV	13894	294243	8.23%	0.183%
397	18.057	18.053	18.068	VV	13752	123857	3.47%	0.077%
398	18.119	18.068	18.130	VV	24398	707128	19.79%	0.440%
399	18.142	18.130	18.170	VV	28092	518328	14.50%	0.323%
400	18.195	18.170	18.204	VV	17213	308996	8.65%	0.192%
401	18.236	18.204	18.245	VV	21515	471990	13.21%	0.294%
402	18.250	18.245	18.268	VV	20741	254402	7.12%	0.158%
403	18.290	18.268	18.304	VV	24273	456079	12.76%	0.284%
404	18.323	18.304	18.347	VV	27687	605153	16.93%	0.377%
405	18.380	18.347	18.407	VV	25305	724609	20.27%	0.451%
406	18.436	18.407	18.452	VV	35062	675682	18.91%	0.421%
407	18.464	18.452	18.484	VV	23557	389087	10.89%	0.242%
408	18.526	18.484	18.550	VV	93335	2059356	57.62%	1.282%
409	18.568	18.550	18.595	VV	51027	983032	27.51%	0.612%
410	18.614	18.595	18.633	VV	24285	465028	13.01%	0.290%
411	18.660	18.633	18.678	VV	41888	808362	22.62%	0.503%
412	18.695	18.678	18.749	VV	39856	1193634	33.40%	0.743%
413	18.784	18.749	18.811	VV	87778	1550439	43.38%	0.965%
414	18.821	18.811	18.841	VV	23762	403178	11.28%	0.251%
415	18.866	18.841	18.887	VV	26042	663610	18.57%	0.413%
416	18.916	18.887	18.945	VV	38880	1035779	28.98%	0.645%

					rteres			
417	18.974	18.945	19.004	VV	35199	996962	27.89%	0.621%
418	19.019	19.004	19.024	VV	25078	280158	7.84%	0.174%
419	19.027	19.024	19.032	VV	24088	115909	3.24%	0.072%
420	19.043	19.032	19.052	VV	24797	289001	8.09%	0.180%
421	19.083	19.052	19.118	VV	35211	1144853	32.03%	0.713%
422	19.138	19.118	19.162	VV	31029	747887	20.93%	0.466%
423	19.182	19.162	19.197	VV	29396	581404	16.27%	0.362%
424	19.220	19.197	19.237	VV	36214	754879	21.12%	0.470%
425	19.253	19.237	19.259	VV	32595	392860	10.99%	0.245%
426	19.264	19.259	19.272	VV	32086	244020	6.83%	0.152%
427	19.302	19.272	19.321	VV	43421	1057181	29.58%	0.658%
428	19.348	19.321	19.380	VV	65892	1831556	51.25%	1.140%
429	19.383	19.380	19.438	VV	48909	1294883	36.23%	0.806%
430	19.470	19.438	19.535	VV	45079	2186948	61.19%	1.362%
431	19.553	19.535	19.562	VV	33551	512890	14.35%	0.319%
432	19.567	19.562	19.572	VV	32553	207705	5.81%	0.129%
433	19.586	19.572	19.610	VV	34083	738747	20.67%	0.460%
434	19.641	19.610	19.677	VV	42199	1428135	39.96%	0.889%
435	19.681	19.677	19.685	VV	33530	163200	4.57%	0.102%
436	19.689	19.685	19.709	VV	33686	469462	13.14%	0.292%
437	19.730	19.709	19.757	VV	36673	988191	27.65%	0.615%
438	19.769	19.757	19.781	VV	35647	486407	13.61%	0.303%
439	19.801	19.781	19.814	VV	42546	762095	21.32%	0.474%
440	19.834	19.814	19.853	VV	39847	886718	24.81%	0.552%
441	19.883	19.853	19.913	VV	47132	1484481	41.54%	0.924%
442	19.949	19.913	19.982	VV	76812	2251029	62.98%	1.402%
443	20.014	19.982	20.044	VV	64709	1892576	52.95%	1.178%
444	20.064	20.044	20.082	VV	48862	1044797	29.23%	0.650%
445	20.120	20.082	20.177	VV	56720	2899022	81.11%	1.805%
446	20.183	20.177	20.192	VV	45480	373188	10.44%	0.232%
447	20.197	20.192	20.206	VV	43201	361401	10.11%	0.225%
448	20.229	20.206	20.253	VV	47321	1217776	34.07%	0.758%
449	20.260	20.253	20.266	VV	42729	318411	8.91%	0.198%
450	20.326	20.266	20.359	VV	76075	3150985	88.16%	1.962%
451	20.388	20.359	20.418	VV	60047	1958529	54.80%	1.219%
452	20.425	20.418	20.448	VV	55587	944410	26.42%	0.588%
453	20.465	20.448	20.488	VV	54215	1244420	34.82%	0.775%
454	20.495	20.488	20.498	VV	49114	311460	8.71%	0.194%
455	20.509	20.498	20.516	VV	51550	520120	14.55%	0.324%
456	20.527	20.516	20.541	VV	51093	750663	21.00%	0.467%
457	20.545	20.541	20.551	VV	51042	299103	8.37%	0.186%
458	20.583	20.551	20.592	VV	53610	1300062	36.38%	0.809%
459	20.606	20.592	20.627	VV	55326	1105812	30.94%	0.688%
460	20.646	20.627	20.651	VV	54152	759030	21.24%	0.473%

rters

461	20.671	20.651	20.708	VV	59815	1884354	52.72%	1.173%
462	20.714	20.708	20.726	VV	53889	567194	15.87%	0.353%
463	20.732	20.726	20.747	VV	51171	639530	17.89%	0.398%
464	20.752	20.747	20.773	VV	51129	775801	21.71%	0.483%
465	20.778	20.773	20.792	VV	48107	550131	15.39%	0.343%
466	20.809	20.792	20.817	VV	49148	716246	20.04%	0.446%
467	20.838	20.817	20.862	VV	49538	1271025	35.56%	0.791%
468	20.877	20.862	20.888	VV	49053	754158	21.10%	0.470%
469	20.898	20.888	20.903	VV	48861	433827	12.14%	0.270%
470	20.912	20.903	20.933	VV	49612	853229	23.87%	0.531%
471	20.943	20.933	20.948	VV	46255	400391	11.20%	0.249%
472	20.952	20.948	20.964	VV	46011	413274	11.56%	0.257%
473	20.986	20.964	21.023	VV	47265	1578094	44.15%	0.983%
474	21.028	21.023	21.047	VV	40947	588643	16.47%	0.366%
475	21.051	21.047	21.074	VV	39016	605166	16.93%	0.377%
476	21.101	21.074	21.111	VV	39617	834826	23.36%	0.520%
477	21.119	21.111	21.125	VV	39671	337503	9.44%	0.210%
478	21.136	21.125	21.156	VV	39726	692138	19.37%	0.431%
479	21.160	21.156	21.164	VV	38224	195028	5.46%	0.121%
480	21.172	21.164	21.197	VV	39756	753106	21.07%	0.469%
481	21.207	21.197	21.227	VV	38077	657428	18.39%	0.409%
482	21.238	21.227	21.245	VV	37062	393890	11.02%	0.245%
483	21.251	21.245	21.257	VV	35688	265159	7.42%	0.165%
484	21.264	21.257	21.321	VV	35530	1233589	34.52%	0.768%
485	21.354	21.321	21.385	VV	32816	1213361	33.95%	0.755%
486	21.391	21.385	21.410	VV	31198	445608	12.47%	0.277%
487	21.418	21.410	21.426	VV	30287	284206	7.95%	0.177%
488	21.436	21.426	21.442	VV	29179	274630	7.68%	0.171%
489	21.462	21.442	21.493	VV	31563	882779	24.70%	0.550%
490	21.501	21.493	21.507	VV	27254	228305	6.39%	0.142%
491	21.537	21.507	21.549	VV	31717	723150	20.23%	0.450%
492	21.559	21.549	21.566	VV	31233	303970	8.51%	0.189%
493	21.577	21.566	21.607	VV	32683	728243	20.38%	0.453%
494	21.615	21.607	21.621	VV	26568	213360	5.97%	0.133%
495	21.627	21.621	21.641	VV	25897	297975	8.34%	0.186%
496	21.642	21.641	21.650	VV	23885	128003	3.58%	0.080%
497	21.658	21.650	21.695	VV	25717	614207	17.19%	0.382%
498	21.743	21.695	21.749	VV	29308	785908	21.99%	0.489%
499	21.760	21.749	21.828	VV	30226	1164447	32.58%	0.725%
500	21.833	21.828	21.840	VV	19445	138412	3.87%	0.086%
501	21.848	21.840	21.854	VV	19612	158307	4.43%	0.099%
502	21.859	21.854	21.880	VV	19190	270631	7.57%	0.168%
503	21.906	21.880	21.913	VV	18038	328654	9.20%	0.205%

				rteres				
504	21.921	21.913	21.932	VV	18300	202897	5.68%	0.126%
505	21.946	21.932	21.955	VV	18497	235860	6.60%	0.147%
506	21.978	21.955	22.022	VV	19619	648705	18.15%	0.404%
507	22.027	22.022	22.036	VV	12702	99508	2.78%	0.062%
508	22.042	22.036	22.047	VV	12612	82834	2.32%	0.052%
509	22.061	22.047	22.102	VV	16328	431005	12.06%	0.268%
510	22.109	22.102	22.115	VV	7916	56791	1.59%	0.035%
511	22.151	22.115	22.178	VV	15823	456892	12.78%	0.284%
512	22.213	22.178	22.241	VV	12248	388506	10.87%	0.242%
513	22.247	22.241	22.287	VV	9826	235183	6.58%	0.146%
514	22.294	22.287	22.301	VV	6892	52234	1.46%	0.033%
515	22.311	22.301	22.334	VV	7735	113006	3.16%	0.070%
516	22.341	22.334	22.349	VV	3778	30952	0.87%	0.019%
517	22.364	22.349	22.386	VV	4516	48789	1.37%	0.030%
518	22.389	22.386	22.393	VV	654	1913	0.05%	0.001%
Sum of corrected areas:						160614995		

FF090525.M Fri Oct 03 07:15:56 2025



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: SCIA01

ProjectID: 256-258 6TH AVE PATERSON

Lab Code: ACE

SDG No.: Q3216

Calibration Sequence : FF090525		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
850	137068275	161257	FF016336.D
340	37986080	111724	FF016337.D
170	21402125	125895	FF016338.D
85	11165009	131353	FF016339.D
1700	176262056	103684	FF016340.D
AVG RF : 126783		% RSD : 17.506	AVG RT : 15.071

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 256-258 6TH AVE PATERSON
Lab Code: ACE SDG No.: Q3216
DataFile: FF016493.D Analyst Name: YP\AJ Analyst Date: 10-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	100251627	117943	126783	6.973

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016493.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 15:54
 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: Oct 03 06:41:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.071	5420032	41.857 ug/ml
Target Compounds			
1) N-OCTANE	2.048	6148020	46.759 ug/ml
2) N-DECANE	4.585	6330970	47.545 ug/ml
3) N-DODECANE	6.765	6399809	47.076 ug/ml
4) N-TETRADECANE	8.598	6388874	45.824 ug/ml
5) N-HEXADECANE	10.207	6395386	45.019 ug/ml
6) N-OCTADECANE	11.654	6470048	44.011 ug/ml
7) N-EICOSANE	12.967	6428168	43.091 ug/ml
8) N-DOCOSANE	14.169	6160920	42.372 ug/ml
10) N-TETRACOSANE	15.276	6049114	41.742 ug/ml
11) N-HEXACOSANE	16.300	5895350	41.259 ug/ml
12) N-OCTACOSANE	17.253	5710304	41.050 ug/ml
13) N-TRIACONTANE	18.145	5694789	41.209 ug/ml
14) N-DOTRIACONTANE	18.979	5554118	43.002 ug/ml
15) N-TETRATRIACONTANE	19.765	5355760	48.821 ug/ml
16) N-HEXATRIACONTANE	20.507	5092003	57.840 ug/ml
17) N-OCTATRIACONTANE	21.268	5068821	68.227 ug/ml
18) N-TETRACONTANE	22.218	5109173	78.178 ug/ml

(f)=RT Delta > 1/2 Window

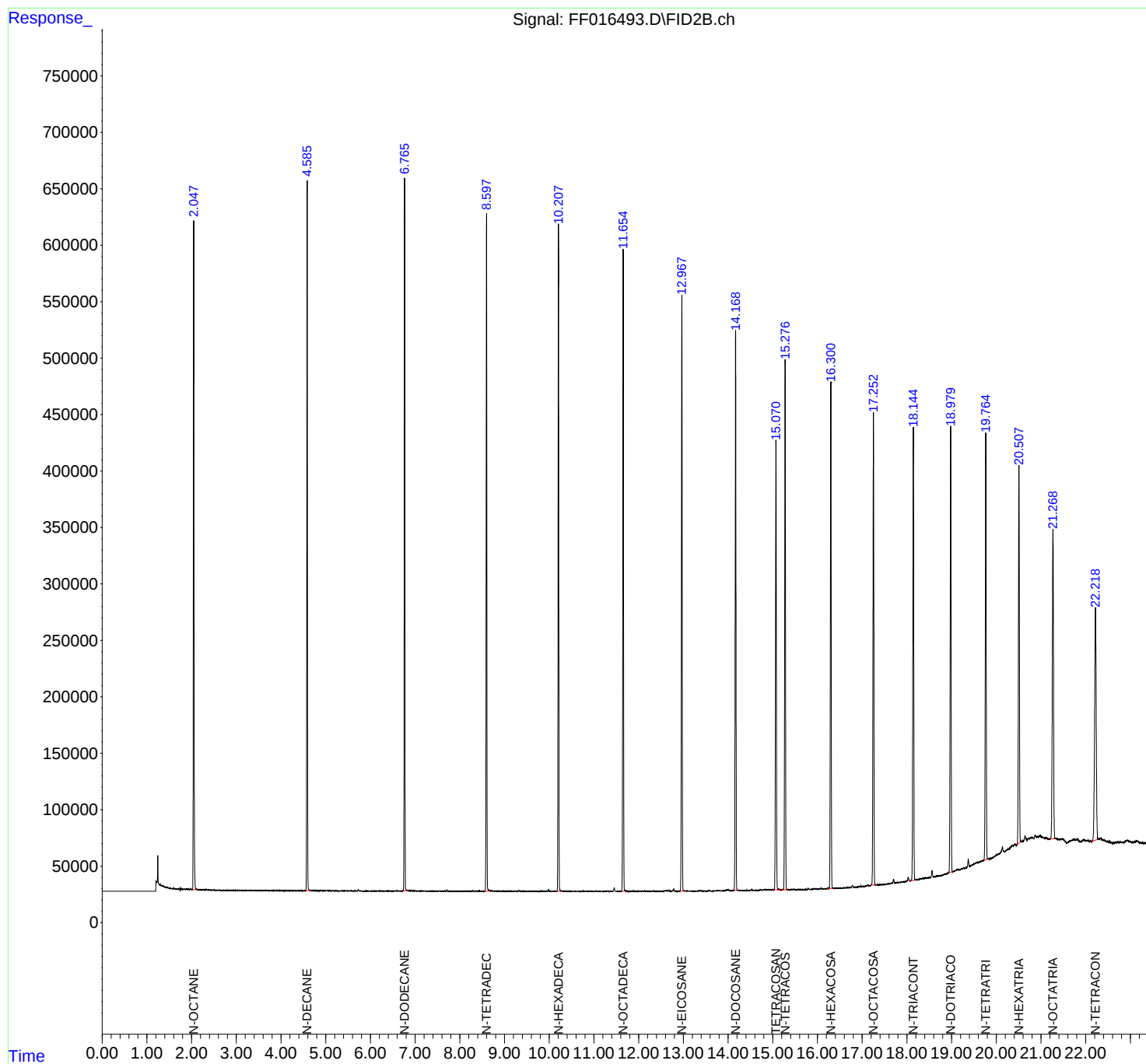
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016493.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:54
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: Oct 03 06:41:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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\FF100125\
Data File : FF016493.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:54
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.048	2.012	2.127	BB	591770	6148020	95.02%	5.818%
2	4.585	4.550	4.665	BB	628613	6330970	97.85%	5.991%
3	6.765	6.724	6.842	BB	632828	6399809	98.91%	6.056%
4	8.598	8.562	8.684	BB	598660	6388874	98.75%	6.046%
5	10.207	10.170	10.280	BB	590832	6395386	98.85%	6.052%
6	11.654	11.610	11.715	BB	568358	6470048	100.00%	6.123%
7	12.968	12.920	13.030	BB	528339	6428168	99.35%	6.083%
8	14.169	14.129	14.222	BB	496132	6160920	95.22%	5.830%
9	15.071	15.010	15.177	BB	398295	5420032	83.77%	5.129%
10	15.276	15.189	15.334	BB	468363	6049114	93.49%	5.724%
11	16.300	16.235	16.359	BB	449899	5895350	91.12%	5.579%
12	17.253	17.200	17.312	BV	417802	5710304	88.26%	5.404%
13	18.145	18.074	18.187	BB	402332	5694789	88.02%	5.389%
14	18.979	18.940	19.017	BB	395381	5554118	85.84%	5.256%
15	19.765	19.720	19.820	BB	377312	5355760	82.78%	5.068%
16	20.507	20.460	20.543	BV	334494	5092003	78.70%	4.819%
17	21.268	21.200	21.315	BV	274181	5068821	78.34%	4.797%
18	22.218	22.140	22.276	BV	206121	5109173	78.97%	4.835%
Sum of corrected areas:						105671657		

FF090525.M Fri Oct 03 07:10:42 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: SCIA01
ProjectID: 256-258 6TH AVE PATERSON
Lab Code: ACE SDG No.: Q3216
DataFile: FF016506.D Analyst Name: YP\AJ Analyst Date: 10-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	94216394	110843	126783	12.573

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016506.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 22:20
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Oct 03 06:45:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.072	5417037	41.834 ug/ml
Target Compounds			
1) N-OCTANE	2.046	6092319	46.335 ug/ml
2) N-DECANE	4.586	6273785	47.116 ug/ml
3) N-DODECANE	6.765	6349592	46.707 ug/ml
4) N-TETRADECANE	8.599	6330281	45.404 ug/ml
5) N-HEXADECANE	10.209	6351623	44.711 ug/ml
6) N-OCTADECANE	11.655	6447396	43.857 ug/ml
7) N-EICOSANE	12.968	6423658	43.060 ug/ml
8) N-DOCOSANE	14.170	6168130	42.421 ug/ml
10) N-TETRACOSANE	15.277	6052002	41.762 ug/ml
11) N-HEXACOSANE	16.301	5895519	41.261 ug/ml
12) N-OCTACOSANE	17.254	5701766	40.989 ug/ml
13) N-TRIACONTANE	18.145	5658120	40.944 ug/ml
14) N-DOTRIACONTANE	18.980	5334493	41.302 ug/ml
15) N-TETRATRIACONTANE	19.766	4641357	42.309 ug/ml
16) N-HEXATRIACONTANE	20.510	3887095	44.154 ug/ml
17) N-OCTATRIACONTANE	21.268	3439713	46.299 ug/ml
18) N-TETRACONTANE	22.218	3169545	48.499 ug/ml

(f)=RT Delta > 1/2 Window

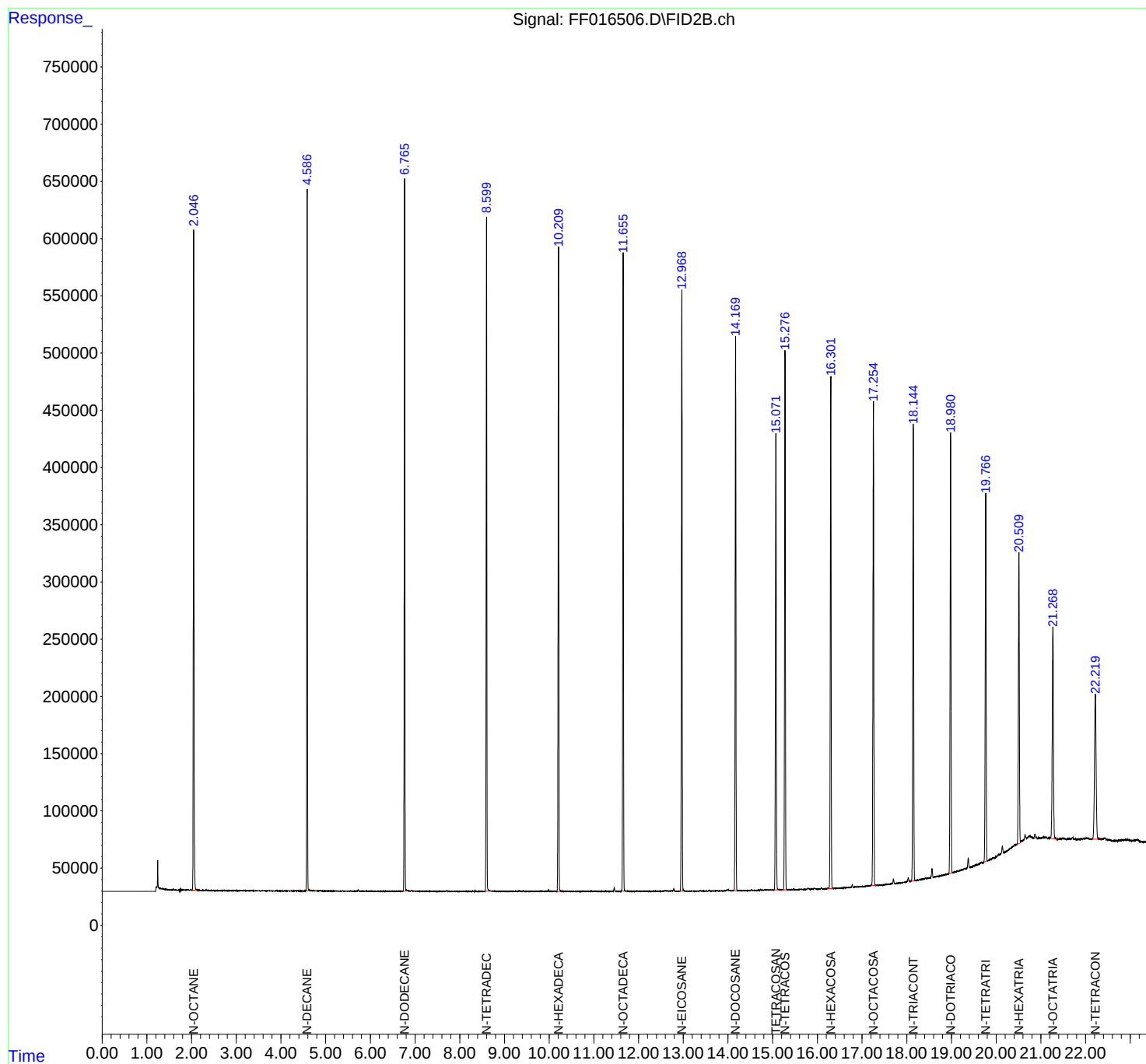
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016506.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 22:20
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Oct 03 06:45:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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\FF100125\
Data File : FF016506.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 22:20
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.046	2.010	2.127	BB	575466	6092319	94.49%	6.115%
2	4.586	4.549	4.665	BB	612668	6273785	97.31%	6.297%
3	6.765	6.719	6.835	BB	622993	6349592	98.48%	6.373%
4	8.599	8.562	8.690	BB	589895	6330281	98.18%	6.354%
5	10.209	10.167	10.287	BB	563469	6351623	98.51%	6.375%
6	11.655	11.612	11.722	BB	558514	6447396	100.00%	6.471%
7	12.968	12.924	13.037	BB	526248	6423658	99.63%	6.447%
8	14.170	14.107	14.215	BB	482915	6168130	95.67%	6.191%
9	15.072	15.007	15.142	BV	398452	5417037	84.02%	5.437%
10	15.277	15.192	15.329	BB	469526	6052002	93.87%	6.074%
11	16.301	16.212	16.355	BB	446734	5895519	91.44%	5.917%
12	17.254	17.200	17.309	BB	421515	5701766	88.44%	5.723%
13	18.145	18.070	18.182	BB	397924	5658120	87.76%	5.679%
14	18.980	18.940	19.020	BV	383817	5334493	82.74%	5.354%
15	19.766	19.720	19.809	BV	322760	4641357	71.99%	4.658%
16	20.510	20.460	20.547	BV	253686	3887095	60.29%	3.901%
17	21.268	21.200	21.379	BB	184941	3439713	53.35%	3.452%
18	22.218	22.140	22.337	BB	127060	3169545	49.16%	3.181%
Sum of corrected areas:						99633429		

FF090525.M Fri Oct 03 07:12:11 2025

Analytical Sequence

Client: Sciacca General Contractors, LLC

SDG No.: Q3216

Project: 256-258 6TH AVE PATERSON

Instrument ID: FID_F

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

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.071					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	01 Oct 2025 15:24	FF016492.D	15.069	
50 PPM TRPH STD	50 PPM TRPH STD	01 Oct 2025 15:54	FF016493.D	15.071	
PB169938BL	PB169938BL	01 Oct 2025 16:53	FF016495.D	15.066	
PB169938BS	PB169938BS	01 Oct 2025 17:24	FF016496.D	15.067	
WASTE	Q3216-01	01 Oct 2025 18:23	FF016498.D	15.069	
WASTEMS	Q3216-01MS	01 Oct 2025 18:53	FF016499.D	15.071	
WASTEMSD	Q3216-01MSD	01 Oct 2025 19:23	FF016500.D	15.071	
PIBLK02	LBLK02	01 Oct 2025 21:50	FF016505.D	15.068	
50 PPM TRPH STD	50 PPM TRPH STD	01 Oct 2025 22:20	FF016506.D	15.072	



QC SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	256-258 6TH AVE PATERSON		Date Received:		
Client Sample ID:	PB169938BL		SDG No.:	Q3216	
Lab Sample ID:	PB169938BL		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
FF016495.D	1	10/01/25 10:40	10/01/25 16:53	PB169938

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	13.3		37 - 130	67%	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\FF100125\
Data File : FF016495.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:53
Operator : YP\AJ
Sample : PB169938BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169938BL

Integration File: autoint1.e
Quant Time: Oct 03 06:42:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.066	1722943	13.306 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

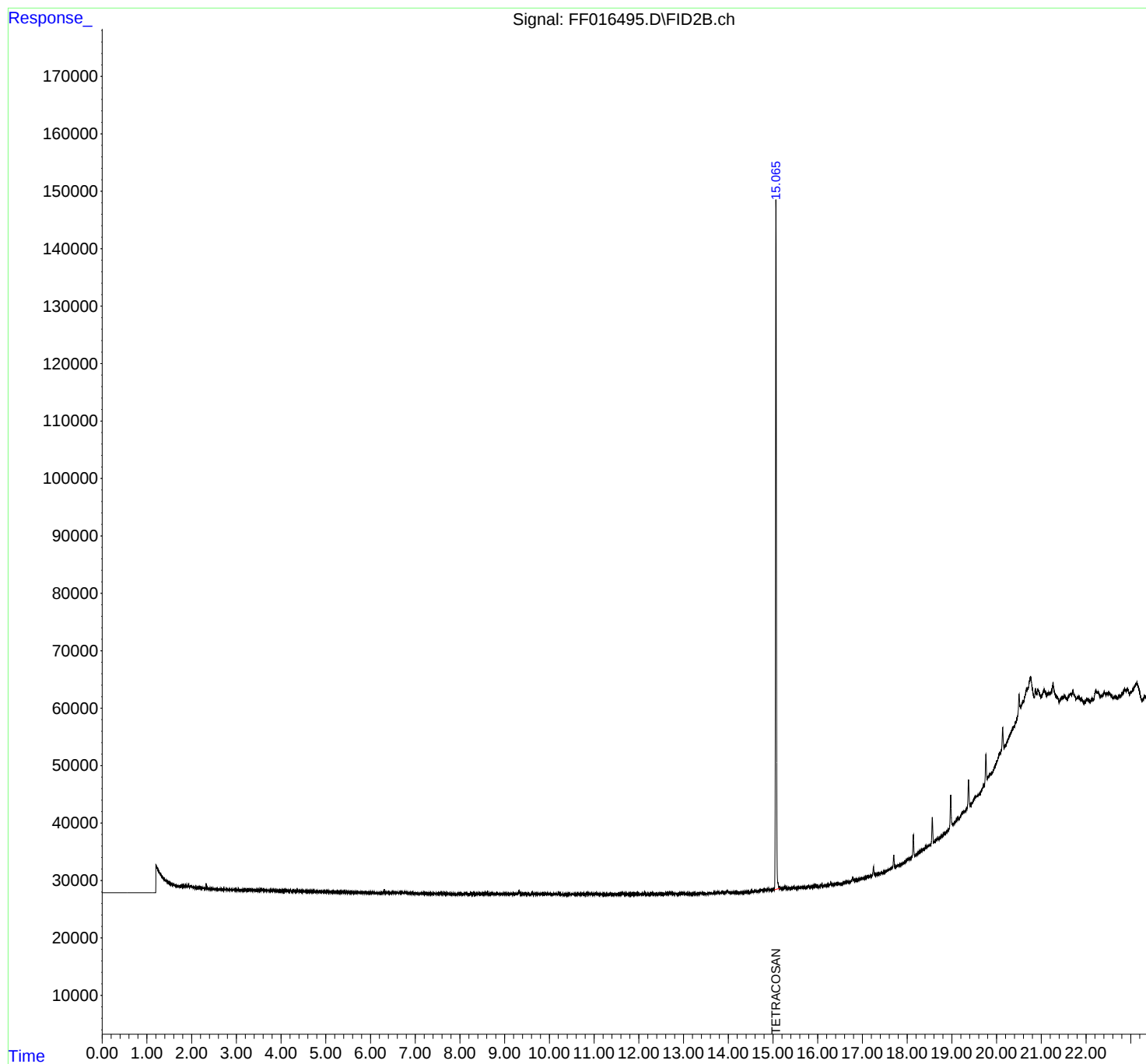
(m)=manual int.

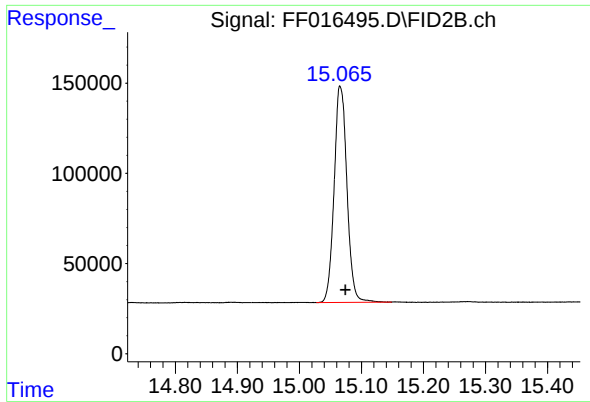
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016495.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:53
Operator : YP\AJ
Sample : PB169938BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169938BL

Integration File: autoint1.e
Quant Time: Oct 03 06:42:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.066 min
Delta R.T.: -0.009 min
Response: 1722943
Conc: 13.31 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169938BL

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016495.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:53
Sample : PB169938BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.066	15.027	15.149	BB	119916	1722943	100.00%	100.000%
Sum of corrected areas:						1722943		

FF090525.M Fri Oct 03 07:11:09 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	10/01/25
Project:	256-258 6TH AVE PATERSON	Date Received:	10/01/25
Client Sample ID:	PIBLK-FF016492.D	SDG No.:	Q3216
Lab Sample ID:	I.BLK-FF016492.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
FF016492.D	1		10/01/25	FF100125

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	14.2		29 - 130	71%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016492.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:24
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: Oct 03 06:41:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.069	1837833	14.193 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

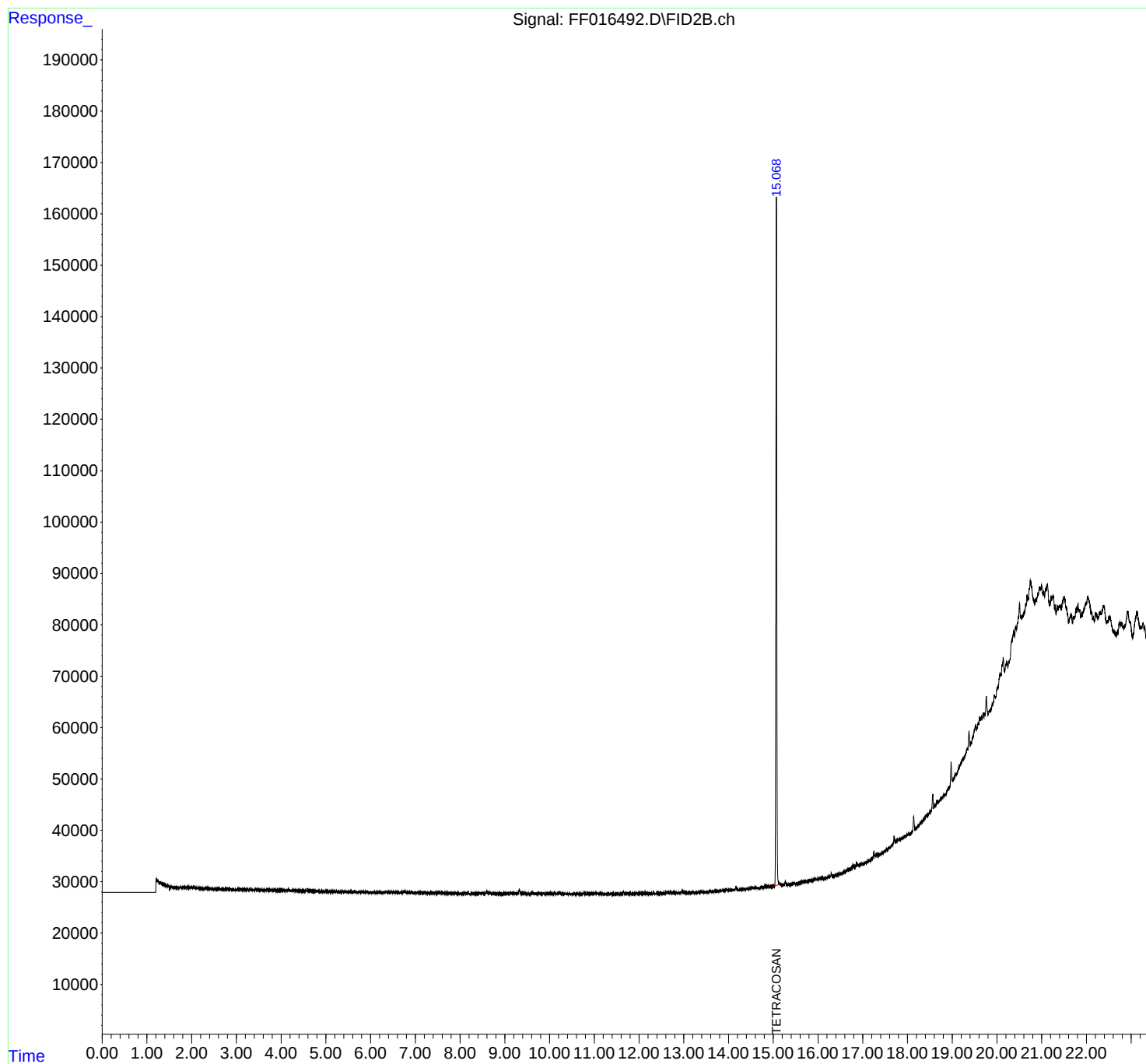
(m)=manual int.

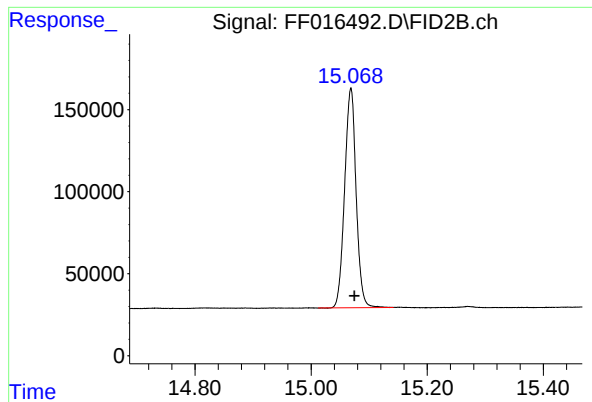
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016492.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:24
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 03 06:41:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.069 min
Delta R.T.: -0.006 min
Response: 1837833
Conc: 14.19 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016492.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:24
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.069	15.012	15.142	BB	133994	1837833	100.00%	100.000%
Sum of corrected areas:						1837833		

FF090525.M Fri Oct 03 07:10:13 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	10/01/25
Project:	256-258 6TH AVE PATERSON	Date Received:	10/01/25
Client Sample ID:	PIBLK-FF016505.D	SDG No.:	Q3216
Lab Sample ID:	I.BLK-FF016505.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
FF016505.D	1		10/01/25	FF100125

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	13.7		29 - 130	68%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016505.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 21:50
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: Oct 03 06:44:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.068	1768512	13.658 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

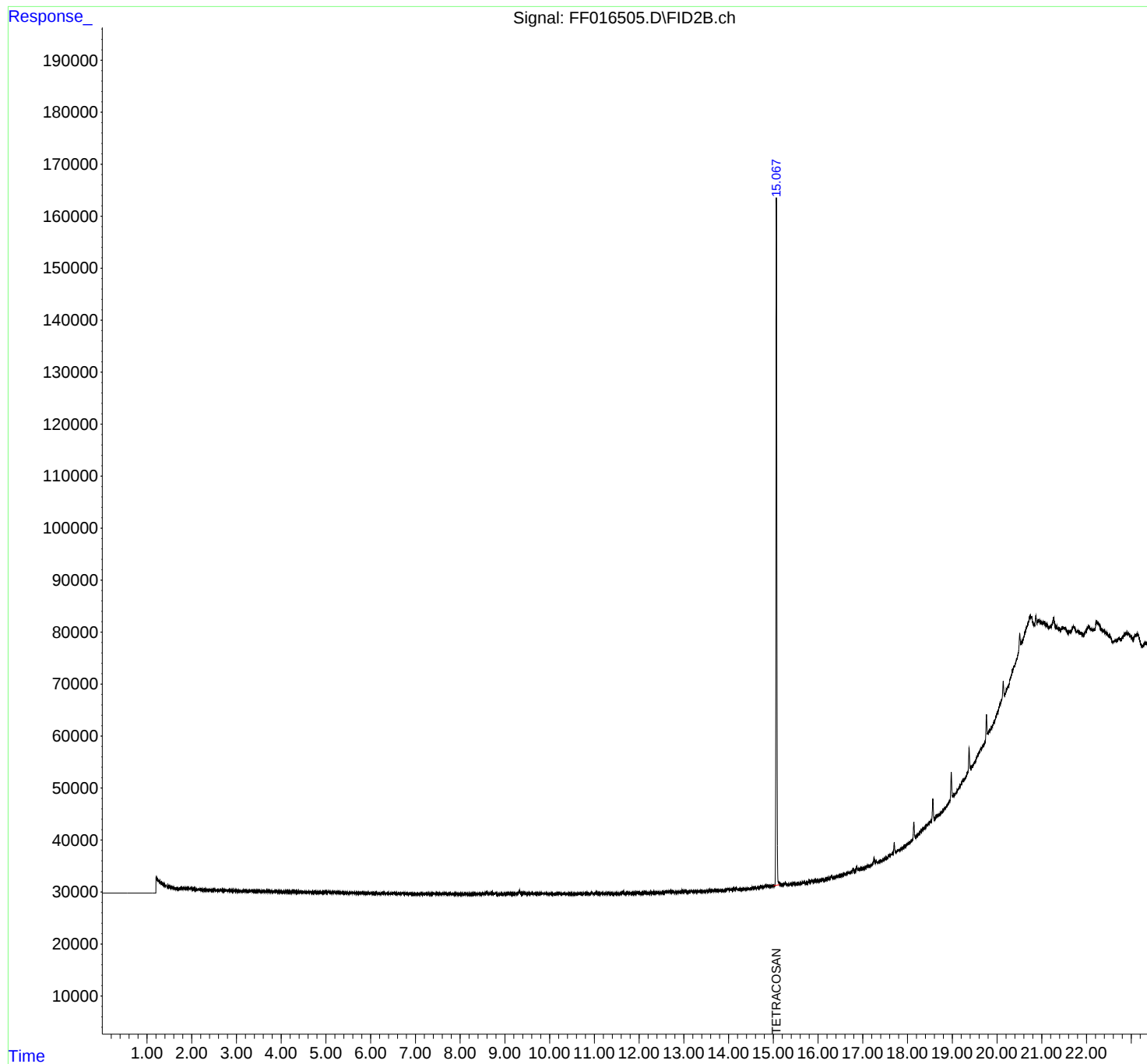
(m)=manual int.

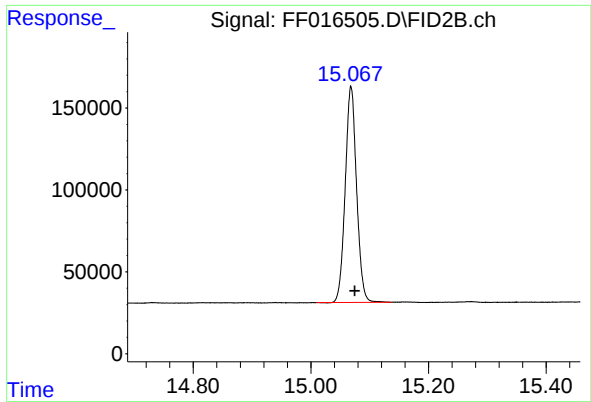
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016505.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 21:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 03 06:44:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.068 min
Delta R.T.: -0.006 min
Response: 1768512
Conc: 13.66 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016505.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 21:50
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.068	15.009	15.137	BB	131462	1768512	100.00%	100.000%
Sum of corrected areas:						1768512		

FF090525.M Fri Oct 03 07:11:45 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	PB169938BS	SDG No.:	Q3216
Lab Sample ID:	PB169938BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016496.D	1	10/01/25 10:40	10/01/25 17:24	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	8260		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.2		37 - 130	66%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016496.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 17:24
 Operator : YP\AJ
 Sample : PB169938BS
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB169938BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/03/2025
 Supervised By :mohammad ahmed 10/04/2025

Integration File: autoint1.e
 Quant Time: Oct 03 06:42:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.067	1709257	13.200 ug/ml
Target Compounds			
1) N-OCTANE	2.046	1647462	12.530 ug/ml
2) N-DECANE	4.581	1996236	14.992 ug/ml
3) N-DODECANE	6.760	2044206	15.037 ug/ml
4) N-TETRADECANE	8.594	2076117	14.891 ug/ml
5) N-HEXADECANE	10.204	2085229	14.678 ug/ml
6) N-OCTADECANE	11.650	2126193	14.463 ug/ml
7) N-EICOSANE	12.963	2156452	14.456 ug/ml
8) N-DOCOSANE	14.166	2067030	14.216 ug/ml
10) N-TETRACOSANE	15.272	2034563	14.040 ug/ml
11) N-HEXACOSANE	16.295	1953018	13.668 ug/ml
12) N-OCTACOSANE	17.249	1933936	13.903 ug/ml
13) N-TRIACONTANE	18.139	1951103	14.119 ug/ml
14) N-DOTRIACONTANE	18.976	1885196	14.596 ug/ml
15) N-TETRATRIACONTANE	19.762	1663364	15.163 ug/ml
16) N-HEXATRIACONTANE	20.503	1377743	15.650 ug/ml
17) N-OCTATRIACONTANE	21.263	1223060	16.463 ug/mlm
18) N-TETRACONTANE	22.210	1155042	17.674 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016496.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:24
Operator : YP\AJ
Sample : PB169938BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

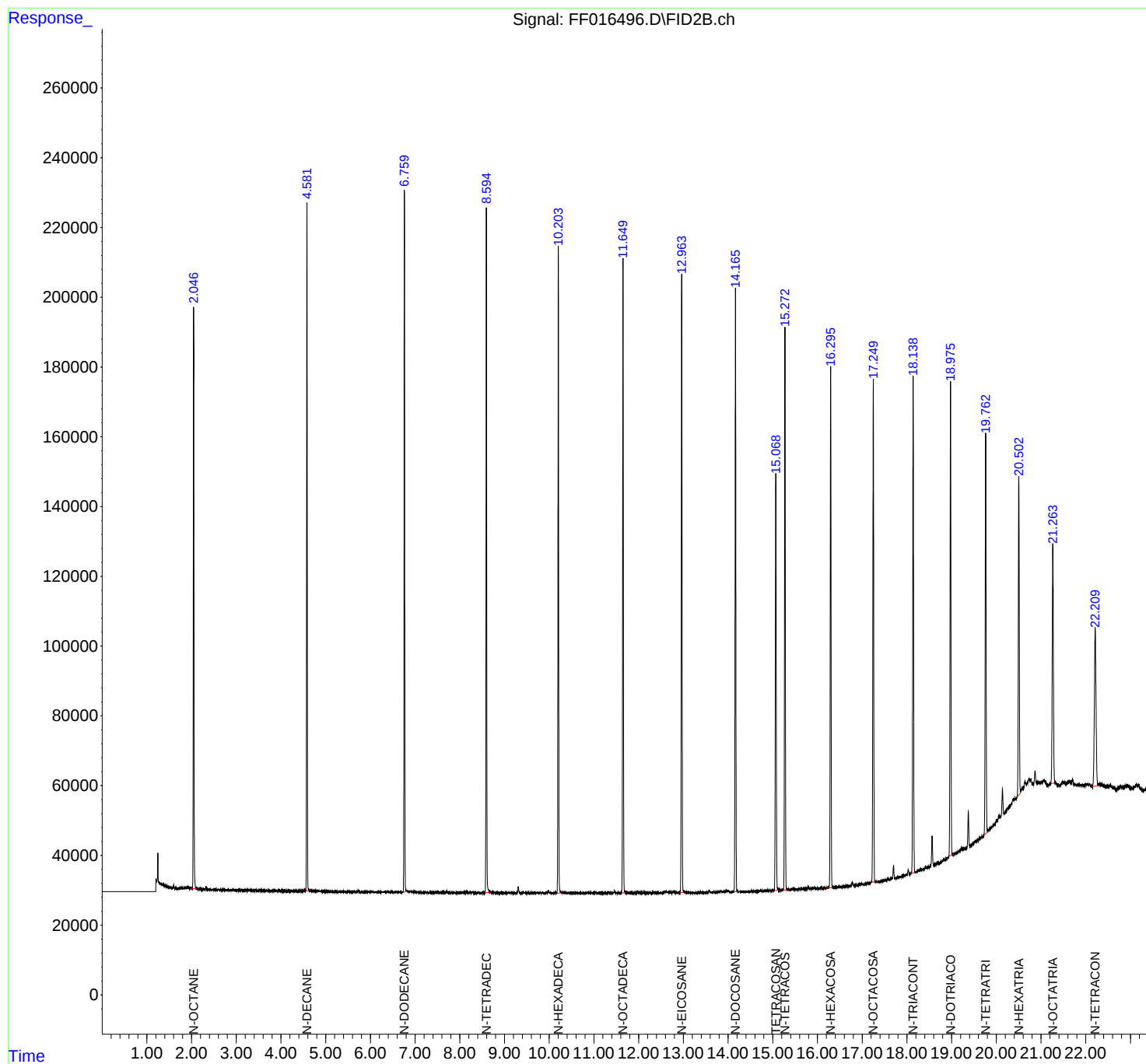
Instrument :
FID_F
ClientSampleId :
PB169938BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/03/2025
Supervised By :mohammad ahmed 10/04/2025

Integration File: autoint1.e
Quant Time: Oct 03 06:42:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

ClientSampleId :

PB169938BS

Area Percent

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/03/2025
Supervised By :mohammad ahmed 10/04/2025

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data
Data File : FF016496.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:24
Sample : PB169938BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.046	1.996	2.106	BB	166411	1647462	76.40%	4.975%
2	4.581	4.551	4.636	BB	197279	1996236	92.57%	6.028%
3	6.760	6.729	6.822	BB	200807	2044206	94.79%	6.173%
4	8.594	8.561	8.684	BB	196339	2076117	96.27%	6.269%
5	10.204	10.171	10.277	BB	184964	2085229	96.70%	6.297%
6	11.650	11.606	11.709	BB	181842	2126193	98.60%	6.420%
7	12.963	12.921	13.021	BB	177405	2156452	100.00%	6.512%
8	14.166	14.129	14.217	BB	172688	2067030	95.85%	6.242%
9	15.067	15.027	15.131	BB	119256	1709257	79.26%	5.161%
10	15.272	15.231	15.321	BB	161826	2034563	94.35%	6.144%
11	16.295	16.196	16.346	BB	149477	1953018	90.57%	5.897%
12	17.249	17.201	17.306	BB	143944	1933936	89.68%	5.840%
13	18.139	18.072	18.177	BB	142547	1951103	90.48%	5.892%
14	18.976	18.941	19.039	BB	135997	1885196	87.42%	5.693%
15	19.762	19.721	19.802	BV	114947	1663364	77.13%	5.023%
16	20.503	20.461	20.539	BV	91488	1377743	63.89%	4.160%
17	21.264	21.201	21.359	BB	69058	1254537	58.18%	3.788%
18	22.210	22.141	22.273	BV	45242	1155042	53.56%	3.488%
Sum of corrected areas:						33116683		

FF090525.M Fri Oct 03 07:11:31 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	WASTEMS	SDG No.:	Q3216
Lab Sample ID:	Q3216-01MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	89.3
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016499.D	1	10/01/25 10:40	10/01/25 18:53	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	58400		429	3160	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.3		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\FF100125\
 Data File : FF016499.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 18:53
 Operator : YP\AJ
 Sample : Q3216-01MS
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WASTEMS

Integration File: autoint1.e
 Quant Time: Oct 03 06:43:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.071	1596436	12.329 ug/ml
Target Compounds			
1) N-OCTANE	2.048	1758936	13.378 ug/ml
2) N-DECANE	4.584	2070168	15.547 ug/ml
3) N-DODECANE	6.763	2171736	15.975 ug/ml
4) N-TETRADECANE	8.596	2333467	16.737 ug/ml
5) N-HEXADECANE	10.206	2343649	16.497 ug/ml
6) N-OCTADECANE	11.652	2293527	15.601 ug/ml
7) N-EICOSANE	12.966	2910096	19.508 ug/ml
8) N-DOCOSANE	14.167	2986104	20.537 ug/ml
10) N-TETRACOSANE	15.274	2209190	15.245 ug/ml
11) N-HEXACOSANE	16.300	2234766	15.640 ug/ml
12) N-OCTACOSANE	17.253	2364200	16.996 ug/ml
13) N-TRIACONTANE	18.145	2504418	18.123 ug/ml
14) N-DOTRIACONTANE	18.981	2178353	16.866 ug/ml
15) N-TETRATRIACONTANE	19.769	2402063	21.896 ug/ml
16) N-HEXATRIACONTANE	20.514	2455040	27.887 ug/ml
17) N-OCTATRIACONTANE	21.273	2463929	33.165 ug/ml
18) N-TETRACONTANE	22.229	2353241	36.008 ug/ml

(f)=RT Delta > 1/2 Window

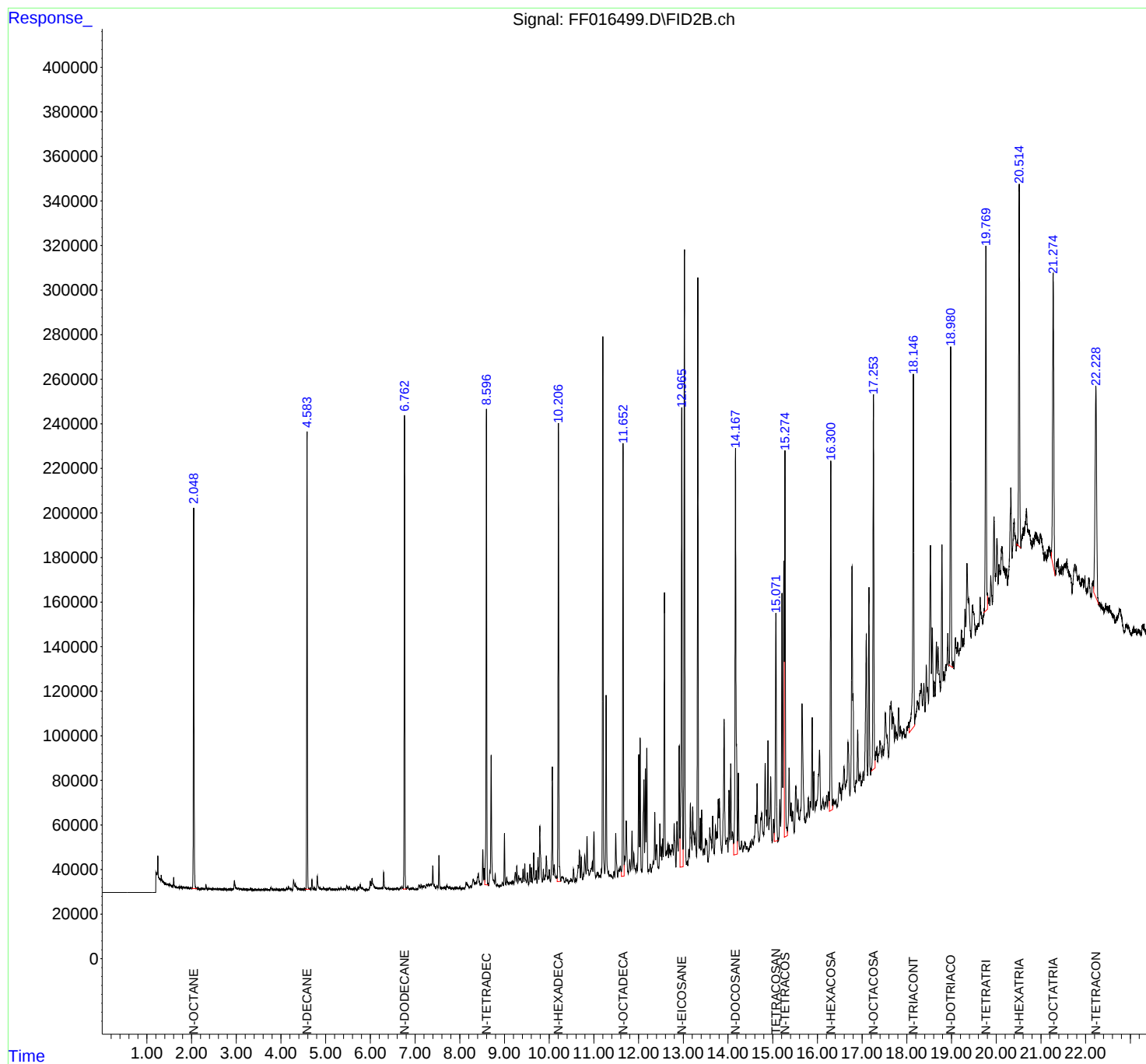
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016499.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 18:53
Operator : YP\AJ
Sample : Q3216-01MS
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTEMS

Integration File: autoint1.e
Quant Time: Oct 03 06:43:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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\FF100125\
 Data File : FF016499.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 18:53
 Sample : Q3216-01MS
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.922	1.900	1.953	BV	331	4076	0.08%	0.002%
2	1.986	1.953	2.013	VV	420	6101	0.12%	0.003%
3	2.048	2.013	2.115	PV	170873	1767504	35.93%	0.882%
4	2.121	2.115	2.169	VV	224	3604	0.07%	0.002%
5	2.173	2.169	2.188	VV	127	733	0.01%	0.000%
6	2.197	2.188	2.205	PV	102	663	0.01%	0.000%
7	2.232	2.205	2.250	VV	333	5135	0.10%	0.003%
8	2.253	2.250	2.299	VV	297	3788	0.08%	0.002%
9	2.321	2.299	2.360	VV	2102	23262	0.47%	0.012%
10	2.380	2.360	2.389	PV	292	2875	0.06%	0.001%
11	2.402	2.389	2.420	VV	348	5203	0.11%	0.003%
12	2.422	2.420	2.452	VV	268	3317	0.07%	0.002%
13	2.460	2.452	2.466	VV	225	1425	0.03%	0.001%
14	2.470	2.466	2.483	VV	187	1740	0.04%	0.001%
15	2.490	2.483	2.503	VV	198	2174	0.04%	0.001%
16	2.517	2.503	2.533	VV	285	3737	0.08%	0.002%
17	2.537	2.533	2.570	VV	243	3261	0.07%	0.002%
18	2.583	2.570	2.608	VV	162	1335	0.03%	0.001%
19	2.624	2.608	2.643	VV	395	4684	0.10%	0.002%
20	2.647	2.643	2.662	VV	265	2070	0.04%	0.001%
21	2.666	2.662	2.673	VV	128	611	0.01%	0.000%
22	2.677	2.673	2.710	VV	110	1172	0.02%	0.001%
23	2.730	2.710	2.770	VV	412	8219	0.17%	0.004%
24	2.773	2.770	2.783	VV	122	483	0.01%	0.000%
25	2.822	2.783	2.835	PV	227	3425	0.07%	0.002%
26	2.838	2.835	2.861	VV	106	1443	0.03%	0.001%

				rteres				
27	2.877	2.861	2.909	VV	237	3656	0.07%	0.002%
28	2.925	2.909	2.936	VV	334	3853	0.08%	0.002%
29	2.958	2.936	3.002	VV	4210	71184	1.45%	0.036%
30	3.007	3.002	3.031	VV	841	11465	0.23%	0.006%
31	3.051	3.031	3.096	VV	618	16012	0.33%	0.008%
32	3.107	3.096	3.130	VV	320	4858	0.10%	0.002%
33	3.133	3.130	3.140	VV	206	1138	0.02%	0.001%
34	3.156	3.140	3.161	VV	266	2727	0.06%	0.001%
35	3.172	3.161	3.178	VV	377	3111	0.06%	0.002%
36	3.184	3.178	3.202	VV	403	3920	0.08%	0.002%
37	3.225	3.202	3.272	VV	397	8955	0.18%	0.004%
38	3.276	3.272	3.280	VV	146	540	0.01%	0.000%
39	3.319	3.280	3.357	VV	818	14485	0.29%	0.007%
40	3.360	3.357	3.371	VV	203	1238	0.03%	0.001%
41	3.373	3.371	3.380	VV	202	572	0.01%	0.000%
42	3.383	3.380	3.401	VV	133	970	0.02%	0.000%
43	3.408	3.401	3.421	VV	129	990	0.02%	0.000%
44	3.436	3.421	3.443	PV	173	1524	0.03%	0.001%
45	3.445	3.443	3.475	VV	160	1475	0.03%	0.001%
46	3.495	3.475	3.504	VV	132	1363	0.03%	0.001%
47	3.510	3.504	3.517	VV	133	805	0.02%	0.000%
48	3.535	3.517	3.552	VV	170	2348	0.05%	0.001%
49	3.556	3.552	3.577	VV	132	1447	0.03%	0.001%
50	3.581	3.577	3.594	PV	104	591	0.01%	0.000%
51	3.608	3.594	3.623	VV	308	2862	0.06%	0.001%
52	3.632	3.623	3.653	VV	195	2603	0.05%	0.001%
53	3.674	3.653	3.711	VV	258	5461	0.11%	0.003%
54	3.726	3.711	3.746	VV	133	1574	0.03%	0.001%
55	3.779	3.746	3.829	VV	876	21357	0.43%	0.011%
56	3.832	3.829	3.842	VV	222	1407	0.03%	0.001%
57	3.857	3.842	3.889	VV	243	4322	0.09%	0.002%
58	3.911	3.889	3.952	VV	392	7750	0.16%	0.004%
59	3.959	3.952	3.989	VV	179	1973	0.04%	0.001%
60	4.010	3.989	4.024	PV	327	4814	0.10%	0.002%
61	4.029	4.024	4.035	VV	312	1786	0.04%	0.001%
62	4.047	4.035	4.065	VV	301	3564	0.07%	0.002%
63	4.069	4.065	4.091	VV	144	1370	0.03%	0.001%
64	4.121	4.091	4.153	VV	810	15856	0.32%	0.008%
65	4.170	4.153	4.204	VV	1410	21166	0.43%	0.011%
66	4.219	4.204	4.253	VV	493	10039	0.20%	0.005%
67	4.282	4.253	4.310	VV	4452	75500	1.53%	0.038%
68	4.323	4.310	4.380	VV	2485	57072	1.16%	0.028%
69	4.392	4.380	4.444	VV	704	18282	0.37%	0.009%
70	4.447	4.444	4.473	VV	355	5814	0.12%	0.003%

rters

71	4.476	4.473	4.489	VV	316	2974	0.06%	0.001%
72	4.495	4.489	4.510	VV	339	3539	0.07%	0.002%
73	4.534	4.510	4.553	VV	459	8562	0.17%	0.004%
74	4.583	4.553	4.615	VV	205775	2081033	42.30%	1.038%
75	4.619	4.615	4.641	VV	966	10340	0.21%	0.005%
76	4.654	4.641	4.673	VV	569	8555	0.17%	0.004%
77	4.693	4.673	4.727	VV	4802	57118	1.16%	0.028%
78	4.743	4.727	4.789	VV	969	16503	0.34%	0.008%
79	4.812	4.789	4.884	VV	6189	111628	2.27%	0.056%
80	4.891	4.884	4.909	VV	687	8745	0.18%	0.004%
81	4.918	4.909	4.923	VV	420	3406	0.07%	0.002%
82	4.948	4.923	5.017	VV	891	31665	0.64%	0.016%
83	5.026	5.017	5.045	VV	425	5816	0.12%	0.003%
84	5.088	5.045	5.124	VV	1081	27592	0.56%	0.014%
85	5.128	5.124	5.141	VV	306	2926	0.06%	0.001%
86	5.144	5.141	5.179	VV	338	4792	0.10%	0.002%
87	5.212	5.179	5.218	VV	393	5599	0.11%	0.003%
88	5.238	5.218	5.258	VV	524	8546	0.17%	0.004%
89	5.272	5.258	5.277	VV	265	2095	0.04%	0.001%
90	5.290	5.277	5.315	VV	693	9583	0.19%	0.005%
91	5.344	5.315	5.365	VV	966	15900	0.32%	0.008%
92	5.375	5.365	5.392	VV	579	6841	0.14%	0.003%
93	5.403	5.392	5.419	VV	526	6743	0.14%	0.003%
94	5.429	5.419	5.450	VV	518	6557	0.13%	0.003%
95	5.469	5.450	5.510	VV	1819	34148	0.69%	0.017%
96	5.529	5.510	5.560	VV	1799	27351	0.56%	0.014%
97	5.564	5.560	5.578	VV	517	4449	0.09%	0.002%
98	5.591	5.578	5.615	VV	504	8334	0.17%	0.004%
99	5.633	5.615	5.644	VV	772	8494	0.17%	0.004%
100	5.659	5.644	5.688	VV	1055	15354	0.31%	0.008%
101	5.690	5.688	5.701	VV	262	1293	0.03%	0.001%
102	5.727	5.701	5.745	PV	1538	18721	0.38%	0.009%
103	5.772	5.745	5.806	VV	2350	46800	0.95%	0.023%
104	5.818	5.806	5.837	VV	1102	14163	0.29%	0.007%
105	5.840	5.837	5.870	VV	448	5322	0.11%	0.003%
106	5.874	5.870	5.895	VV	219	1064	0.02%	0.001%
107	5.918	5.895	5.939	PV	378	4075	0.08%	0.002%
108	5.955	5.939	5.962	VV	160	1195	0.02%	0.001%
109	5.998	5.962	6.013	VV	3950	55116	1.12%	0.027%
110	6.037	6.013	6.055	VV	5126	84379	1.72%	0.042%
111	6.060	6.055	6.127	VV	2694	65559	1.33%	0.033%
112	6.135	6.127	6.150	VV	1080	12500	0.25%	0.006%
113	6.154	6.150	6.159	VV	741	3482	0.07%	0.002%

				rteres				
114	6.162	6.159	6.181	VV	715	8652	0.18%	0.004%
115	6.194	6.181	6.220	VV	735	15297	0.31%	0.008%
116	6.231	6.220	6.244	VV	850	9824	0.20%	0.005%
117	6.258	6.244	6.278	VV	984	15208	0.31%	0.008%
118	6.297	6.278	6.337	VV	7856	99421	2.02%	0.050%
119	6.341	6.337	6.361	VV	860	9943	0.20%	0.005%
120	6.403	6.361	6.429	VV	978	23026	0.47%	0.011%
121	6.442	6.429	6.459	VV	439	5640	0.11%	0.003%
122	6.482	6.459	6.511	VV	579	10729	0.22%	0.005%
123	6.529	6.511	6.535	VV	404	3809	0.08%	0.002%
124	6.537	6.535	6.540	VV	395	1214	0.02%	0.001%
125	6.549	6.540	6.570	VV	499	6567	0.13%	0.003%
126	6.600	6.570	6.634	VV	780	15362	0.31%	0.008%
127	6.648	6.634	6.653	VV	361	2720	0.06%	0.001%
128	6.670	6.653	6.685	VV	797	11774	0.24%	0.006%
129	6.705	6.685	6.734	VV	1430	25421	0.52%	0.013%
130	6.763	6.734	6.813	VV	212665	2185124	44.41%	1.090%
131	6.838	6.813	6.871	VV	1699	28139	0.57%	0.014%
132	6.875	6.871	6.891	VV	341	3290	0.07%	0.002%
133	6.914	6.891	6.931	VV	593	8862	0.18%	0.004%
134	6.955	6.931	6.986	VV	678	13091	0.27%	0.007%
135	6.990	6.986	6.998	VV	160	782	0.02%	0.000%
136	7.018	6.998	7.030	VV	260	3369	0.07%	0.002%
137	7.046	7.030	7.058	VV	264	2949	0.06%	0.001%
138	7.086	7.058	7.117	PV	2128	41488	0.84%	0.021%
139	7.134	7.117	7.156	VV	2267	34442	0.70%	0.017%
140	7.171	7.156	7.185	VV	1667	22051	0.45%	0.011%
141	7.201	7.185	7.233	VV	1736	36009	0.73%	0.018%
142	7.262	7.233	7.278	VV	2045	42883	0.87%	0.021%
143	7.299	7.278	7.325	VV	2488	56460	1.15%	0.028%
144	7.350	7.325	7.363	VV	2447	45280	0.92%	0.023%
145	7.396	7.363	7.418	VV	10413	148121	3.01%	0.074%
146	7.427	7.418	7.471	VV	1885	38158	0.78%	0.019%
147	7.491	7.471	7.515	VV	1720	27168	0.55%	0.014%
148	7.534	7.515	7.567	VV	15181	160575	3.26%	0.080%
149	7.580	7.567	7.597	VV	627	9351	0.19%	0.005%
150	7.607	7.597	7.620	VV	643	7627	0.16%	0.004%
151	7.632	7.620	7.646	VV	822	9897	0.20%	0.005%
152	7.659	7.646	7.680	VV	768	11450	0.23%	0.006%
153	7.683	7.680	7.688	VV	435	2058	0.04%	0.001%
154	7.714	7.688	7.751	VV	1772	34378	0.70%	0.017%
155	7.772	7.751	7.797	VV	725	15068	0.31%	0.008%
156	7.800	7.797	7.825	VV	396	4955	0.10%	0.002%

				rteres				
157	7.836	7.825	7.867	VV	442	5953	0.12%	0.003%
158	7.885	7.867	7.893	VV	399	3614	0.07%	0.002%
159	7.897	7.893	7.911	VV	356	2885	0.06%	0.001%
160	7.927	7.911	7.956	VV	434	7862	0.16%	0.004%
161	7.961	7.956	7.970	VV	198	1138	0.02%	0.001%
162	8.000	7.970	8.040	VV	1029	14170	0.29%	0.007%
163	8.053	8.040	8.068	VV	175	1317	0.03%	0.001%
164	8.072	8.068	8.075	PV	59	248	0.01%	0.000%
165	8.087	8.075	8.091	VV	189	1143	0.02%	0.001%
166	8.105	8.091	8.113	VV	236	2449	0.05%	0.001%
167	8.142	8.113	8.163	VV	2814	48429	0.98%	0.024%
168	8.170	8.163	8.222	VV	1921	37245	0.76%	0.019%
169	8.240	8.222	8.259	VV	1216	17292	0.35%	0.009%
170	8.299	8.259	8.353	VV	4091	134152	2.73%	0.067%
171	8.368	8.353	8.380	VV	2772	37545	0.76%	0.019%
172	8.396	8.380	8.402	VV	5003	51806	1.05%	0.026%
173	8.415	8.402	8.455	VV	6536	119928	2.44%	0.060%
174	8.469	8.455	8.486	VV	1824	28837	0.59%	0.014%
175	8.516	8.486	8.532	VV	17070	208386	4.24%	0.104%
176	8.544	8.532	8.557	VV	8667	94207	1.91%	0.047%
177	8.596	8.557	8.649	VV	214545	2399603	48.77%	1.197%
178	8.672	8.649	8.679	VV	7119	83949	1.71%	0.042%
179	8.702	8.679	8.748	VV	59352	811255	16.49%	0.405%
180	8.754	8.748	8.775	VV	3309	44957	0.91%	0.022%
181	8.793	8.775	8.830	VV	5842	79307	1.61%	0.040%
182	8.843	8.830	8.876	VV	1023	17028	0.35%	0.008%
183	8.882	8.876	8.892	VV	366	2784	0.06%	0.001%
184	8.904	8.892	8.913	VV	470	4626	0.09%	0.002%
185	8.952	8.913	8.977	VV	1912	37248	0.76%	0.019%
186	9.000	8.977	9.031	VV	23947	252597	5.13%	0.126%
187	9.049	9.031	9.069	VV	4042	57294	1.16%	0.029%
188	9.073	9.069	9.098	VV	1817	24628	0.50%	0.012%
189	9.119	9.098	9.130	VV	1973	27479	0.56%	0.014%
190	9.140	9.130	9.153	VV	1706	20273	0.41%	0.010%
191	9.167	9.153	9.181	VV	2210	27401	0.56%	0.014%
192	9.196	9.181	9.212	VV	2002	29439	0.60%	0.015%
193	9.243	9.212	9.260	VV	6115	111139	2.26%	0.055%
194	9.276	9.260	9.299	VV	8987	111107	2.26%	0.055%
195	9.318	9.299	9.344	VV	4595	82918	1.69%	0.041%
196	9.350	9.344	9.360	VV	3149	27715	0.56%	0.014%
197	9.368	9.360	9.387	VV	3143	38979	0.79%	0.019%
198	9.415	9.387	9.436	VV	7382	108666	2.21%	0.054%
199	9.454	9.436	9.492	VV	9792	138436	2.81%	0.069%
200	9.513	9.492	9.542	VV	5686	83077	1.69%	0.041%

rters

201	9.570	9.542	9.588	VV	9459	127305	2.59%	0.064%
202	9.603	9.588	9.621	VV	7913	86288	1.75%	0.043%
203	9.654	9.621	9.677	VV	14521	204903	4.16%	0.102%
204	9.686	9.677	9.693	VV	2884	25056	0.51%	0.012%
205	9.708	9.693	9.728	VV	6625	79964	1.63%	0.040%
206	9.750	9.728	9.769	VV	12317	146097	2.97%	0.073%
207	9.791	9.769	9.850	VV	26329	470162	9.56%	0.235%
208	9.870	9.850	9.889	VV	6917	88378	1.80%	0.044%
209	9.936	9.889	9.961	VV	12914	253812	5.16%	0.127%
210	9.974	9.961	9.984	VV	3599	42660	0.87%	0.021%
211	10.002	9.984	10.025	VV	6594	97277	1.98%	0.049%
212	10.070	10.025	10.095	VV	52745	692023	14.07%	0.345%
213	10.113	10.095	10.156	VV	8637	182764	3.71%	0.091%
214	10.167	10.156	10.178	VV	3463	39234	0.80%	0.020%
215	10.206	10.178	10.259	VV	206621	2395687	48.69%	1.195%
216	10.279	10.259	10.284	VV	2892	32411	0.66%	0.016%
217	10.290	10.284	10.304	VV	3072	36425	0.74%	0.018%
218	10.311	10.304	10.345	VV	2840	43866	0.89%	0.022%
219	10.374	10.345	10.400	VV	2442	45245	0.92%	0.023%
220	10.414	10.400	10.431	VV	1779	20239	0.41%	0.010%
221	10.457	10.431	10.471	PV	1196	16244	0.33%	0.008%
222	10.486	10.471	10.520	VV	1965	35313	0.72%	0.018%
223	10.543	10.520	10.574	VV	6228	91467	1.86%	0.046%
224	10.591	10.574	10.614	VV	1681	24542	0.50%	0.012%
225	10.650	10.614	10.659	VV	7584	122326	2.49%	0.061%
226	10.676	10.659	10.699	VV	14261	204639	4.16%	0.102%
227	10.716	10.699	10.751	VV	11241	154640	3.14%	0.077%
228	10.769	10.751	10.775	VV	3425	32917	0.67%	0.016%
229	10.794	10.775	10.825	VV	11801	213453	4.34%	0.106%
230	10.846	10.825	10.893	VV	20225	339035	6.89%	0.169%
231	10.964	10.893	10.977	VV	8523	255969	5.20%	0.128%
232	11.001	10.977	11.042	VV	21961	352070	7.16%	0.176%
233	11.073	11.042	11.084	VV	3634	62468	1.27%	0.031%
234	11.096	11.084	11.112	VV	3419	43750	0.89%	0.022%
235	11.125	11.112	11.131	VV	2219	21608	0.44%	0.011%
236	11.137	11.131	11.152	VV	2111	22096	0.45%	0.011%
237	11.167	11.152	11.174	VV	4949	45980	0.93%	0.023%
238	11.200	11.174	11.242	VV	243748	2697179	54.82%	1.346%
239	11.273	11.242	11.317	VV	82464	1051914	21.38%	0.525%
240	11.326	11.317	11.342	VV	2951	35929	0.73%	0.018%
241	11.351	11.342	11.360	VV	1769	17539	0.36%	0.009%
242	11.373	11.360	11.395	VV	1621	27382	0.56%	0.014%
243	11.401	11.395	11.426	VV	1022	12001	0.24%	0.006%

				rteres				
244	11.447	11.426	11.466	PV	3122	40704	0.83%	0.020%
245	11.488	11.466	11.531	VV	20057	294862	5.99%	0.147%
246	11.562	11.531	11.575	VV	3984	72437	1.47%	0.036%
247	11.593	11.575	11.615	VV	5063	86922	1.77%	0.043%
248	11.652	11.615	11.677	VV	194455	2305138	46.85%	1.150%
249	11.692	11.677	11.703	VV	8961	118840	2.42%	0.059%
250	11.724	11.703	11.768	VV	24933	436615	8.87%	0.218%
251	11.802	11.768	11.823	VV	7421	137340	2.79%	0.069%
252	11.853	11.823	11.874	VV	19944	287871	5.85%	0.144%
253	11.893	11.874	11.940	VV	9908	187788	3.82%	0.094%
254	11.955	11.940	11.972	VV	4364	56733	1.15%	0.028%
255	12.004	11.972	12.019	VV	53810	680697	13.84%	0.340%
256	12.035	12.019	12.078	VV	61146	700365	14.24%	0.349%
257	12.118	12.078	12.135	VV	42035	725605	14.75%	0.362%
258	12.152	12.135	12.167	VV	46848	540259	10.98%	0.270%
259	12.184	12.167	12.212	VV	56124	667776	13.57%	0.333%
260	12.227	12.212	12.238	VV	1338	14923	0.30%	0.007%
261	12.260	12.238	12.284	VV	3762	52236	1.06%	0.026%
262	12.324	12.284	12.336	PV	4742	84825	1.72%	0.042%
263	12.363	12.336	12.381	VV	26701	339341	6.90%	0.169%
264	12.405	12.381	12.451	VV	12143	253807	5.16%	0.127%
265	12.476	12.451	12.494	VV	21176	276460	5.62%	0.138%
266	12.507	12.494	12.521	VV	10761	131846	2.68%	0.066%
267	12.539	12.521	12.554	VV	14292	189946	3.86%	0.095%
268	12.579	12.554	12.608	VV	124563	1569436	31.90%	0.783%
269	12.623	12.608	12.635	VV	8331	122536	2.49%	0.061%
270	12.653	12.635	12.669	VV	11476	178980	3.64%	0.089%
271	12.684	12.669	12.695	VV	10858	132442	2.69%	0.066%
272	12.707	12.695	12.718	VV	9040	106107	2.16%	0.053%
273	12.733	12.718	12.739	VV	8180	94939	1.93%	0.047%
274	12.752	12.739	12.779	VV	10854	210691	4.28%	0.105%
275	12.796	12.779	12.835	VV	20015	362547	7.37%	0.181%
276	12.858	12.835	12.885	VV	20745	327962	6.67%	0.164%
277	12.908	12.885	12.927	VV	54487	741082	15.06%	0.370%
278	12.966	12.927	12.996	VV	205993	2910413	59.16%	1.452%
279	13.026	12.996	13.070	VV	276678	3337160	67.83%	1.665%
280	13.083	13.070	13.099	VV	1666	17586	0.36%	0.009%
281	13.123	13.099	13.137	VV	7087	93621	1.90%	0.047%
282	13.159	13.137	13.194	VV	27709	493990	10.04%	0.246%
283	13.211	13.194	13.227	VV	26090	347037	7.05%	0.173%
284	13.232	13.227	13.249	VV	14503	162237	3.30%	0.081%
285	13.265	13.249	13.297	VV	14435	275400	5.60%	0.137%
286	13.325	13.297	13.355	VV	263065	2942720	59.81%	1.468%

				rteres				
287	13.357	13.355	13.361	VV	7718	30032	0.61%	0.015%
288	13.379	13.361	13.395	VV	20475	265556	5.40%	0.132%
289	13.411	13.395	13.444	VV	24013	353885	7.19%	0.177%
290	13.457	13.444	13.477	VV	6292	101475	2.06%	0.051%
291	13.497	13.477	13.509	VV	10776	151198	3.07%	0.075%
292	13.522	13.509	13.552	VV	9775	162585	3.30%	0.081%
293	13.593	13.552	13.635	PV	15372	387080	7.87%	0.193%
294	13.657	13.635	13.692	VV	20159	353980	7.19%	0.177%
295	13.719	13.692	13.734	VV	15389	243697	4.95%	0.122%
296	13.747	13.734	13.762	VV	12437	180542	3.67%	0.090%
297	13.781	13.762	13.795	VV	27007	402577	8.18%	0.201%
298	13.807	13.795	13.860	VV	27135	511536	10.40%	0.255%
299	13.912	13.860	13.948	VV	62044	1180462	23.99%	0.589%
300	13.963	13.948	13.971	VV	7552	94918	1.93%	0.047%
301	13.982	13.971	13.998	VV	8626	102132	2.08%	0.051%
302	14.022	13.998	14.042	VV	29564	423971	8.62%	0.212%
303	14.061	14.042	14.085	VV	41315	545985	11.10%	0.272%
304	14.102	14.085	14.128	VV	10298	206863	4.20%	0.103%
305	14.167	14.128	14.211	VV	182138	2979419	60.56%	1.486%
306	14.230	14.211	14.277	VV	36232	474841	9.65%	0.237%
307	14.303	14.277	14.331	VV	5129	85773	1.74%	0.043%
308	14.350	14.331	14.357	VV	2867	27126	0.55%	0.014%
309	14.379	14.357	14.406	VV	4244	85497	1.74%	0.043%
310	14.420	14.406	14.453	VV	2017	34037	0.69%	0.017%
311	14.502	14.453	14.516	PV	3671	51404	1.04%	0.026%
312	14.535	14.516	14.550	VV	4621	64357	1.31%	0.032%
313	14.558	14.550	14.570	VV	3023	30070	0.61%	0.015%
314	14.586	14.570	14.592	VV	5619	56791	1.15%	0.028%
315	14.614	14.592	14.632	VV	14850	266834	5.42%	0.133%
316	14.650	14.632	14.692	VV	28715	475161	9.66%	0.237%
317	14.733	14.692	14.738	VV	12934	193939	3.94%	0.097%
318	14.754	14.738	14.784	VV	15027	299329	6.08%	0.149%
319	14.794	14.784	14.803	VV	5571	60128	1.22%	0.030%
320	14.831	14.803	14.849	VV	36653	571874	11.62%	0.285%
321	14.857	14.849	14.872	VV	15560	174692	3.55%	0.087%
322	14.894	14.872	14.914	VV	46324	627527	12.75%	0.313%
323	14.955	14.914	14.990	VV	29779	548180	11.14%	0.273%
324	15.017	14.990	15.034	VV	10308	147516	3.00%	0.074%
325	15.071	15.034	15.119	VV	102149	1600863	32.54%	0.799%
326	15.160	15.119	15.176	PV	17992	223752	4.55%	0.112%
327	15.207	15.176	15.225	VV	110215	1401199	28.48%	0.699%
328	15.249	15.225	15.260	VV	123683	1607793	32.68%	0.802%
329	15.274	15.260	15.330	VV	172957	2210111	44.92%	1.103%
330	15.366	15.330	15.397	VV	30084	538658	10.95%	0.269%

rters

331	15.412	15.397	15.430	VV	13831	200381	4.07%	0.100%
332	15.447	15.430	15.483	VV	9534	167284	3.40%	0.083%
333	15.515	15.483	15.549	PV	20306	449962	9.15%	0.224%
334	15.566	15.549	15.602	VV	13593	263498	5.36%	0.131%
335	15.656	15.602	15.734	VV	55457	1389981	28.25%	0.693%
336	15.760	15.734	15.775	VV	4826	85208	1.73%	0.043%
337	15.796	15.775	15.822	VV	11746	195618	3.98%	0.098%
338	15.838	15.822	15.854	VV	9587	134045	2.72%	0.067%
339	15.884	15.854	15.903	VV	46562	688034	13.98%	0.343%
340	15.921	15.903	15.948	VV	21991	328021	6.67%	0.164%
341	15.965	15.948	15.979	VV	8120	119806	2.44%	0.060%
342	15.993	15.979	15.997	VV	8277	82539	1.68%	0.041%
343	16.047	15.997	16.084	VV	30091	838815	17.05%	0.418%
344	16.123	16.084	16.152	VV	7351	195781	3.98%	0.098%
345	16.172	16.152	16.189	VV	5384	94721	1.93%	0.047%
346	16.209	16.189	16.227	VV	7725	124749	2.54%	0.062%
347	16.250	16.227	16.270	VV	9030	160498	3.26%	0.080%
348	16.300	16.270	16.340	VV	156886	2235522	45.44%	1.115%
349	16.355	16.340	16.373	VV	4353	61946	1.26%	0.031%
350	16.393	16.373	16.400	VV	2668	38475	0.78%	0.019%
351	16.415	16.400	16.432	VV	3059	39609	0.81%	0.020%
352	16.438	16.432	16.445	VV	498	2261	0.05%	0.001%
353	16.491	16.445	16.512	PV	10146	217268	4.42%	0.108%
354	16.521	16.512	16.538	VV	7074	79918	1.62%	0.040%
355	16.561	16.538	16.569	VV	7970	106371	2.16%	0.053%
356	16.593	16.569	16.621	VV	15920	332901	6.77%	0.166%
357	16.684	16.621	16.728	VV	25472	756344	15.37%	0.377%
358	16.774	16.728	16.792	VV	103027	1630516	33.14%	0.813%
359	16.797	16.792	16.841	VV	45502	508873	10.34%	0.254%
360	16.866	16.841	16.877	VV	5114	85409	1.74%	0.043%
361	16.901	16.877	16.926	VV	27790	416665	8.47%	0.208%
362	16.938	16.926	16.950	VV	6570	80013	1.63%	0.040%
363	16.954	16.950	16.985	VV	7271	93544	1.90%	0.047%
364	16.994	16.985	17.000	VV	3607	25585	0.52%	0.013%
365	17.022	17.000	17.039	VV	7003	111272	2.26%	0.056%
366	17.094	17.039	17.125	VV	67766	1337126	27.18%	0.667%
367	17.153	17.125	17.190	VV	87448	1203409	24.46%	0.600%
368	17.253	17.190	17.289	VV	172709	2645774	53.78%	1.320%
369	17.306	17.289	17.318	VV	11524	179613	3.65%	0.090%
370	17.333	17.318	17.352	VV	13447	208946	4.25%	0.104%
371	17.366	17.352	17.371	VV	9934	103943	2.11%	0.052%
372	17.397	17.371	17.444	VV	15396	502947	10.22%	0.251%
373	17.459	17.444	17.480	VV	12085	206376	4.19%	0.103%

				rteres				
374	17.520	17.480	17.549	VV	26049	724913	14.73%	0.362%
375	17.555	17.549	17.591	VV	15520	278121	5.65%	0.139%
376	17.627	17.591	17.638	VV	27547	487850	9.92%	0.243%
377	17.648	17.638	17.667	VV	29732	436203	8.87%	0.218%
378	17.682	17.667	17.695	VV	23547	336778	6.85%	0.168%
379	17.703	17.695	17.722	VV	21572	292236	5.94%	0.146%
380	17.741	17.722	17.757	VV	16866	284641	5.79%	0.142%
381	17.770	17.757	17.789	VV	13997	236077	4.80%	0.118%
382	17.813	17.789	17.844	VV	24204	534647	10.87%	0.267%
383	17.857	17.844	17.868	VV	15354	196116	3.99%	0.098%
384	17.872	17.868	17.877	VV	13246	68275	1.39%	0.034%
385	17.882	17.877	17.898	VV	12645	138181	2.81%	0.069%
386	17.916	17.898	17.925	VV	11891	179353	3.65%	0.089%
387	17.934	17.925	17.950	VV	12671	176191	3.58%	0.088%
388	17.964	17.950	17.979	VV	9727	157658	3.20%	0.079%
389	18.001	17.979	18.015	VV	12836	237888	4.84%	0.119%
390	18.038	18.015	18.054	VV	14386	309031	6.28%	0.154%
391	18.063	18.054	18.068	VV	14119	106044	2.16%	0.053%
392	18.080	18.068	18.084	VV	14752	143980	2.93%	0.072%
393	18.145	18.084	18.175	VV	168856	2983220	60.63%	1.488%
394	18.200	18.175	18.207	VV	15711	270743	5.50%	0.135%
395	18.235	18.207	18.244	VV	20970	403714	8.21%	0.201%
396	18.250	18.244	18.272	VV	20072	310363	6.31%	0.155%
397	18.296	18.272	18.306	VV	24830	430723	8.75%	0.215%
398	18.323	18.306	18.354	VV	27546	647579	13.16%	0.323%
399	18.380	18.354	18.409	VV	26632	684676	13.92%	0.342%
400	18.435	18.409	18.452	VV	33860	640171	13.01%	0.319%
401	18.464	18.452	18.485	VV	23507	405470	8.24%	0.202%
402	18.528	18.485	18.550	VV	86276	1956077	39.76%	0.976%
403	18.569	18.550	18.595	VV	48654	941651	19.14%	0.470%
404	18.611	18.595	18.633	VV	24244	479832	9.75%	0.239%
405	18.662	18.633	18.679	VV	41167	819106	16.65%	0.409%
406	18.697	18.679	18.749	VV	38205	1185570	24.10%	0.591%
407	18.786	18.749	18.815	VV	82891	1605210	32.63%	0.801%
408	18.824	18.815	18.842	VV	25427	381692	7.76%	0.190%
409	18.875	18.842	18.883	VV	27681	610827	12.42%	0.305%
410	18.917	18.883	18.939	VV	40992	1059555	21.54%	0.529%
411	18.981	18.939	19.022	VV	168966	3453880	70.20%	1.723%
412	19.039	19.022	19.057	VV	26821	526903	10.71%	0.263%
413	19.089	19.057	19.114	VV	36753	1066654	21.68%	0.532%
414	19.134	19.114	19.162	VV	34042	888243	18.05%	0.443%
415	19.186	19.162	19.200	VV	30564	657834	13.37%	0.328%
416	19.223	19.200	19.237	VV	37901	768172	15.61%	0.383%

					rteres			
417	19.242	19.237	19.246	VV	31827	168682	3.43%	0.084%
418	19.260	19.246	19.271	VV	33661	483240	9.82%	0.241%
419	19.301	19.271	19.320	VV	46272	1136902	23.11%	0.567%
420	19.346	19.320	19.374	VV	65826	1737995	35.33%	0.867%
421	19.382	19.374	19.427	VV	49680	1355557	27.55%	0.676%
422	19.435	19.427	19.440	VV	32957	252438	5.13%	0.126%
423	19.474	19.440	19.532	VV	45658	2166185	44.03%	1.081%
424	19.555	19.532	19.563	VV	35254	617075	12.54%	0.308%
425	19.568	19.563	19.582	VV	34203	383313	7.79%	0.191%
426	19.597	19.582	19.617	VV	35449	744661	15.14%	0.371%
427	19.641	19.617	19.705	VV	46668	2030389	41.27%	1.013%
428	19.721	19.705	19.726	VV	38590	458247	9.31%	0.229%
429	19.769	19.726	19.804	VV	201953	4211626	85.60%	2.101%
430	19.809	19.804	19.824	VV	45871	527568	10.72%	0.263%
431	19.835	19.824	19.856	VV	43325	823869	16.75%	0.411%
432	19.878	19.856	19.913	VV	52803	1531902	31.14%	0.764%
433	19.951	19.913	19.981	VV	78151	2404421	48.87%	1.199%
434	20.016	19.981	20.042	VV	67049	2091714	42.51%	1.043%
435	20.062	20.042	20.085	VV	54753	1328623	27.00%	0.663%
436	20.091	20.085	20.095	VV	51630	311553	6.33%	0.155%
437	20.127	20.095	20.161	VV	61948	2246272	45.66%	1.121%
438	20.173	20.161	20.192	VV	52583	965236	19.62%	0.482%
439	20.198	20.192	20.213	VV	51410	599626	12.19%	0.299%
440	20.236	20.213	20.254	VV	50561	1176559	23.91%	0.587%
441	20.327	20.254	20.356	VV	85455	3680853	74.81%	1.836%
442	20.400	20.356	20.433	VV	70333	2917432	59.30%	1.455%
443	20.435	20.433	20.447	VV	61836	511328	10.39%	0.255%
444	20.466	20.447	20.479	VV	59474	1087582	22.11%	0.543%
445	20.514	20.479	20.552	VV	218970	4919966	100.00%	2.454%
446	20.570	20.552	20.574	VV	60468	780318	15.86%	0.389%
447	20.607	20.574	20.617	VV	63342	1564439	31.80%	0.780%
448	20.626	20.617	20.631	VV	62554	519632	10.56%	0.259%
449	20.646	20.631	20.656	VV	65558	950479	19.32%	0.474%
450	20.676	20.656	20.737	VV	71073	3124229	63.50%	1.559%
451	20.744	20.737	20.779	VV	60274	1432272	29.11%	0.715%
452	20.785	20.779	20.799	VV	55184	638001	12.97%	0.318%
453	20.806	20.799	20.810	VV	52990	346588	7.04%	0.173%
454	20.826	20.810	20.834	VV	55624	774397	15.74%	0.386%
455	20.838	20.834	20.848	VV	54891	461789	9.39%	0.230%
456	20.874	20.848	20.887	VV	57680	1295933	26.34%	0.646%
457	20.902	20.887	20.914	VV	56480	885639	18.00%	0.442%
458	20.922	20.914	20.942	VV	54446	913811	18.57%	0.456%
459	20.945	20.942	20.965	VV	53103	714304	14.52%	0.356%
460	20.986	20.965	21.010	VV	55166	1449063	29.45%	0.723%

rtres

461	21.016	21.010	21.071	VV	52676	1742559	35.42%	0.869%
462	21.076	21.071	21.080	VV	43559	209678	4.26%	0.105%
463	21.090	21.080	21.123	VV	45287	1140555	23.18%	0.569%
464	21.130	21.123	21.137	VV	42962	354941	7.21%	0.177%
465	21.143	21.137	21.151	VV	45733	353434	7.18%	0.176%
466	21.173	21.151	21.181	VV	46622	810592	16.48%	0.404%
467	21.190	21.181	21.213	VV	46036	855174	17.38%	0.427%
468	21.225	21.213	21.234	VV	44403	543780	11.05%	0.271%
469	21.274	21.234	21.319	VV	167721	4302745	87.45%	2.146%
470	21.345	21.319	21.355	VV	36737	729908	14.84%	0.364%
471	21.362	21.355	21.370	VV	36996	318962	6.48%	0.159%
472	21.383	21.370	21.413	VV	37797	888763	18.06%	0.443%
473	21.429	21.413	21.439	VV	33732	503086	10.23%	0.251%
474	21.448	21.439	21.455	VV	32335	312846	6.36%	0.156%
475	21.466	21.455	21.493	VV	33518	717261	14.58%	0.358%
476	21.539	21.493	21.561	VV	33710	1339427	27.22%	0.668%
477	21.581	21.561	21.614	VV	35151	1006813	20.46%	0.502%
478	21.618	21.614	21.623	VV	29601	153777	3.13%	0.077%
479	21.629	21.623	21.642	VV	28780	319089	6.49%	0.159%
480	21.649	21.642	21.657	VV	26969	232318	4.72%	0.116%
481	21.664	21.657	21.693	VV	26602	509775	10.36%	0.254%
482	21.761	21.693	21.779	VV	30183	1304114	26.51%	0.651%
483	21.791	21.779	21.826	VV	28646	705574	14.34%	0.352%
484	21.836	21.826	21.849	VV	23481	323791	6.58%	0.162%
485	21.856	21.849	21.890	VV	22850	499416	10.15%	0.249%
486	21.901	21.890	21.914	VV	21360	283517	5.76%	0.141%
487	21.928	21.914	21.936	VV	21305	265341	5.39%	0.132%
488	21.944	21.936	21.959	VV	20389	266502	5.42%	0.133%
489	21.984	21.959	22.025	VV	21570	680883	13.84%	0.340%
490	22.038	22.025	22.051	VV	14907	218491	4.44%	0.109%
491	22.066	22.051	22.071	VV	19232	202549	4.12%	0.101%
492	22.075	22.071	22.111	VV	19199	349364	7.10%	0.174%
493	22.117	22.111	22.131	VV	11302	126085	2.56%	0.063%
494	22.149	22.131	22.156	VV	15641	209206	4.25%	0.104%
495	22.168	22.156	22.179	VV	16441	207331	4.21%	0.103%
496	22.229	22.179	22.287	VV	103048	2863542	58.20%	1.429%
497	22.290	22.287	22.295	VV	4736	21387	0.43%	0.011%
498	22.301	22.295	22.329	VV	5049	83309	1.69%	0.042%
499	22.335	22.329	22.351	VV	3065	31040	0.63%	0.015%
500	22.357	22.351	22.392	VV	3196	37556	0.76%	0.019%

Sum of corrected areas: 200456465

FF090525.M Fri Oct 03 07:17:32 2025 rteres

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	WASTEMSD	SDG No.:	Q3216
Lab Sample ID:	Q3216-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	89.3
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016500.D	1	10/01/25 10:40	10/01/25 19:23	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	58300		430	3170	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.8		37 - 130	59%	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\FF100125\
 Data File : FF016500.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 19:23
 Operator : YP\AJ
 Sample : Q3216-01MSD
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WASTEMSD

Integration File: autoint1.e
 Quant Time: Oct 03 06:43:43 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.071	1531349	11.826 ug/ml
Target Compounds			
1) N-OCTANE	2.048	1653161	12.573 ug/ml
2) N-DECANE	4.584	1947804	14.628 ug/ml
3) N-DODECANE	6.763	2039816	15.005 ug/ml
4) N-TETRADECANE	8.597	2239690	16.064 ug/ml
5) N-HEXADECANE	10.206	2214675	15.590 ug/ml
6) N-OCTADECANE	11.652	2174199	14.789 ug/ml
7) N-EICOSANE	12.967	2762535	18.518 ug/ml
8) N-DOCOSANE	14.169	2853697	19.626 ug/ml
10) N-TETRACOSANE	15.275	2063402	14.239 ug/ml
11) N-HEXACOSANE	16.300	2140436	14.980 ug/ml
12) N-OCTACOSANE	17.255	2262187	16.262 ug/ml
13) N-TRIACONTANE	18.146	2312627	16.735 ug/ml
14) N-DOTRIACONTANE	18.982	2131416	16.502 ug/ml
15) N-TETRATRIACONTANE	19.771	2380776	21.702 ug/ml
16) N-HEXATRIACONTANE	20.513	2290525	26.018 ug/ml
17) N-OCTATRIACONTANE	21.274	2361540	31.787 ug/ml
18) N-TETRACONTANE	22.226	2221830	33.997 ug/ml

(f)=RT Delta > 1/2 Window

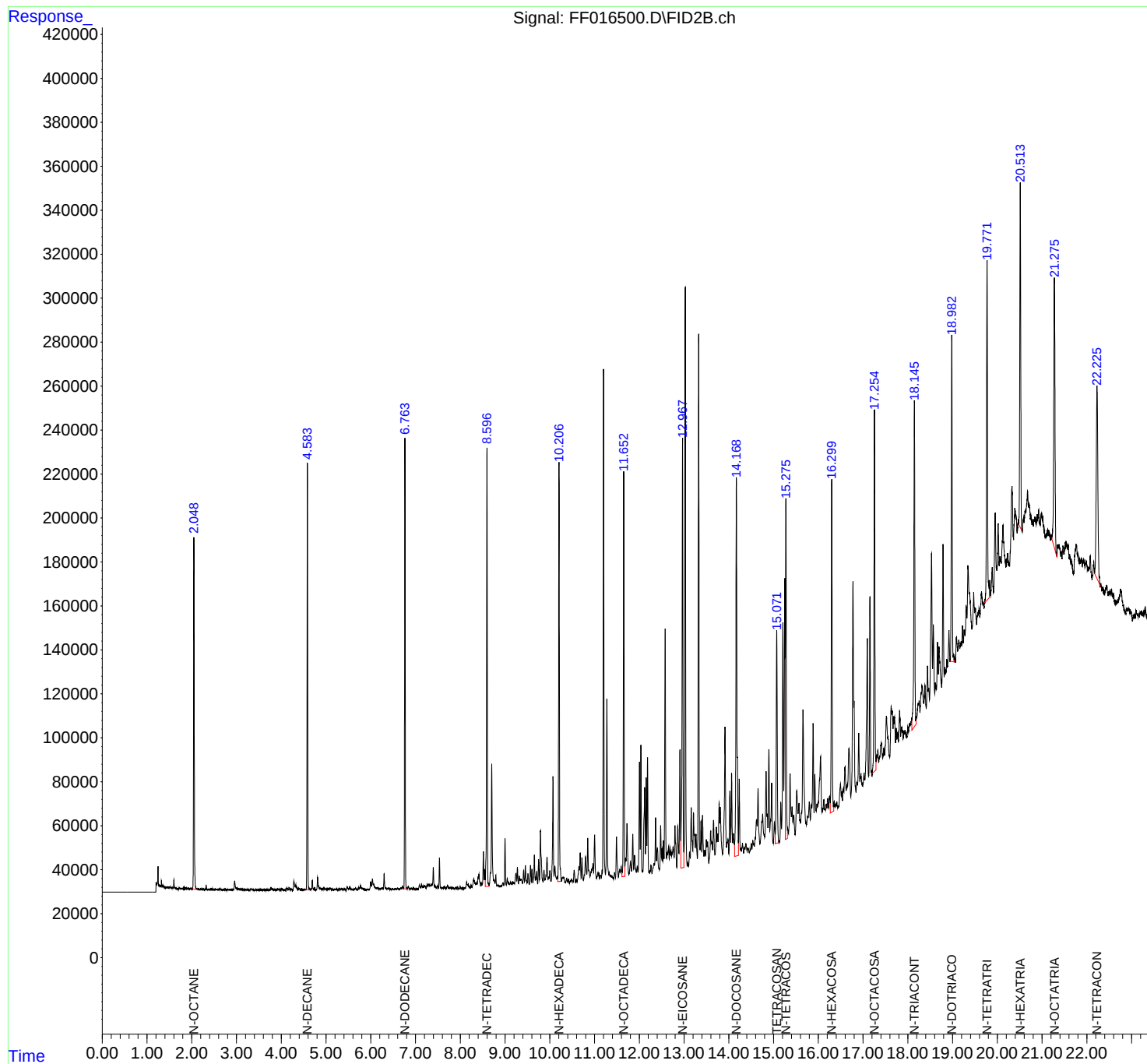
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016500.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 19:23
Operator : YP\AJ
Sample : Q3216-01MSD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTEMSD

Integration File: autoint1.e
Quant Time: Oct 03 06:43:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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\FF100125\
 Data File : FF016500.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 19:23
 Sample : Q3216-01MSD
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.925	1.900	1.955	BV	416	3675	0.07%	0.002%
2	1.985	1.955	2.011	PV	444	6904	0.13%	0.003%
3	2.048	2.011	2.113	PV	160166	1663621	31.82%	0.833%
4	2.118	2.113	2.131	VV	237	1941	0.04%	0.001%
5	2.144	2.131	2.159	VV	208	2016	0.04%	0.001%
6	2.162	2.159	2.168	VV	131	457	0.01%	0.000%
7	2.174	2.168	2.182	VV	132	618	0.01%	0.000%
8	2.186	2.182	2.198	VV	113	587	0.01%	0.000%
9	2.207	2.198	2.222	VV	168	909	0.02%	0.000%
10	2.237	2.222	2.249	VV	281	3338	0.06%	0.002%
11	2.255	2.249	2.283	VV	284	3166	0.06%	0.002%
12	2.289	2.283	2.294	PV	77	376	0.01%	0.000%
13	2.322	2.294	2.363	VV	1996	23088	0.44%	0.012%
14	2.406	2.363	2.445	VV	372	11562	0.22%	0.006%
15	2.459	2.445	2.463	VV	413	2199	0.04%	0.001%
16	2.468	2.463	2.473	VV	283	1322	0.03%	0.001%
17	2.478	2.473	2.498	VV	281	3580	0.07%	0.002%
18	2.517	2.498	2.523	VV	296	3599	0.07%	0.002%
19	2.527	2.523	2.536	VV	267	1898	0.04%	0.001%
20	2.540	2.536	2.573	VV	256	4133	0.08%	0.002%
21	2.579	2.573	2.595	VV	250	1975	0.04%	0.001%
22	2.603	2.595	2.608	VV	157	993	0.02%	0.000%
23	2.626	2.608	2.638	VV	400	5018	0.10%	0.003%
24	2.646	2.638	2.695	VV	291	5588	0.11%	0.003%
25	2.735	2.695	2.780	PV	474	11337	0.22%	0.006%
26	2.797	2.780	2.845	VV	262	5847	0.11%	0.003%

				rteres				
27	2.887	2.845	2.907	VV	248	5863	0.11%	0.003%
28	2.927	2.907	2.934	VV	414	4154	0.08%	0.002%
29	2.958	2.934	3.005	VV	4019	72008	1.38%	0.036%
30	3.010	3.005	3.033	VV	837	10525	0.20%	0.005%
31	3.052	3.033	3.071	VV	653	11035	0.21%	0.006%
32	3.077	3.071	3.085	VV	357	2693	0.05%	0.001%
33	3.089	3.085	3.098	VV	330	2474	0.05%	0.001%
34	3.102	3.098	3.119	VV	378	3335	0.06%	0.002%
35	3.126	3.119	3.147	VV	275	3710	0.07%	0.002%
36	3.161	3.147	3.166	VV	376	2984	0.06%	0.001%
37	3.170	3.166	3.177	VV	320	1979	0.04%	0.001%
38	3.183	3.177	3.209	VV	411	5702	0.11%	0.003%
39	3.221	3.209	3.266	VV	436	8298	0.16%	0.004%
40	3.269	3.266	3.276	VV	144	522	0.01%	0.000%
41	3.282	3.276	3.298	VV	121	1287	0.02%	0.001%
42	3.319	3.298	3.368	VV	801	13809	0.26%	0.007%
43	3.372	3.368	3.377	VV	214	711	0.01%	0.000%
44	3.381	3.377	3.413	VV	157	1736	0.03%	0.001%
45	3.437	3.413	3.449	VV	237	2486	0.05%	0.001%
46	3.453	3.449	3.468	VV	148	972	0.02%	0.000%
47	3.472	3.468	3.489	VV	66	730	0.01%	0.000%
48	3.513	3.489	3.521	VV	131	1548	0.03%	0.001%
49	3.537	3.521	3.566	VV	179	2988	0.06%	0.001%
50	3.570	3.566	3.577	PV	123	386	0.01%	0.000%
51	3.580	3.577	3.587	VV	82	321	0.01%	0.000%
52	3.611	3.587	3.627	VV	325	3970	0.08%	0.002%
53	3.649	3.627	3.653	VV	239	2697	0.05%	0.001%
54	3.669	3.653	3.691	VV	315	5109	0.10%	0.003%
55	3.706	3.691	3.717	VV	214	1894	0.04%	0.001%
56	3.722	3.717	3.744	VV	118	1315	0.03%	0.001%
57	3.776	3.744	3.832	VV	875	22580	0.43%	0.011%
58	3.845	3.832	3.858	VV	226	2896	0.06%	0.001%
59	3.859	3.858	3.875	VV	214	1488	0.03%	0.001%
60	3.907	3.875	3.922	VV	396	6151	0.12%	0.003%
61	3.930	3.922	3.949	VV	316	3297	0.06%	0.002%
62	3.959	3.949	3.969	VV	250	1772	0.03%	0.001%
63	3.979	3.969	3.983	VV	179	1063	0.02%	0.001%
64	4.009	3.983	4.039	VV	596	10289	0.20%	0.005%
65	4.043	4.039	4.076	VV	267	2971	0.06%	0.001%
66	4.088	4.076	4.093	PV	115	554	0.01%	0.000%
67	4.123	4.093	4.156	VV	786	15310	0.29%	0.008%
68	4.172	4.156	4.203	VV	1315	19295	0.37%	0.010%
69	4.225	4.203	4.256	VV	516	9327	0.18%	0.005%
70	4.282	4.256	4.312	VV	4192	72095	1.38%	0.036%

rtres

71	4.324	4.312	4.379	VV	2518	51591	0.99%	0.026%
72	4.390	4.379	4.440	VV	701	16416	0.31%	0.008%
73	4.447	4.440	4.464	VV	370	3930	0.08%	0.002%
74	4.467	4.464	4.471	VV	285	1038	0.02%	0.001%
75	4.473	4.471	4.485	VV	297	1864	0.04%	0.001%
76	4.493	4.485	4.508	VV	221	3004	0.06%	0.002%
77	4.513	4.508	4.516	VV	268	1192	0.02%	0.001%
78	4.539	4.516	4.553	VV	352	6348	0.12%	0.003%
79	4.584	4.553	4.613	VV	194107	1954704	37.38%	0.979%
80	4.620	4.613	4.641	VV	920	9745	0.19%	0.005%
81	4.661	4.641	4.674	VV	494	8071	0.15%	0.004%
82	4.693	4.674	4.724	VV	4488	51691	0.99%	0.026%
83	4.744	4.724	4.791	VV	865	16120	0.31%	0.008%
84	4.813	4.791	4.861	VV	5916	94003	1.80%	0.047%
85	4.869	4.861	4.884	VV	845	10172	0.19%	0.005%
86	4.891	4.884	4.924	VV	666	11218	0.21%	0.006%
87	4.947	4.924	4.965	VV	908	15414	0.29%	0.008%
88	4.972	4.965	5.017	VV	660	15802	0.30%	0.008%
89	5.024	5.017	5.033	VV	454	3705	0.07%	0.002%
90	5.043	5.033	5.051	VV	430	4072	0.08%	0.002%
91	5.090	5.051	5.117	VV	1046	25903	0.50%	0.013%
92	5.120	5.117	5.124	VV	369	1547	0.03%	0.001%
93	5.129	5.124	5.188	VV	385	9373	0.18%	0.005%
94	5.209	5.188	5.215	VV	369	4334	0.08%	0.002%
95	5.219	5.215	5.225	VV	337	1931	0.04%	0.001%
96	5.241	5.225	5.261	VV	460	6326	0.12%	0.003%
97	5.267	5.261	5.277	VV	196	1371	0.03%	0.001%
98	5.292	5.277	5.318	VV	512	8551	0.16%	0.004%
99	5.344	5.318	5.363	VV	836	12980	0.25%	0.006%
100	5.374	5.363	5.393	VV	426	5689	0.11%	0.003%
101	5.404	5.393	5.419	VV	496	5618	0.11%	0.003%
102	5.427	5.419	5.452	VV	457	5394	0.10%	0.003%
103	5.470	5.452	5.512	VV	1693	30443	0.58%	0.015%
104	5.529	5.512	5.577	VV	1610	26444	0.51%	0.013%
105	5.595	5.577	5.599	VV	384	4392	0.08%	0.002%
106	5.602	5.599	5.619	VV	341	2462	0.05%	0.001%
107	5.632	5.619	5.646	VV	614	6490	0.12%	0.003%
108	5.660	5.646	5.705	VV	996	14842	0.28%	0.007%
109	5.728	5.705	5.742	PV	1287	15162	0.29%	0.008%
110	5.773	5.742	5.808	VV	2215	43921	0.84%	0.022%
111	5.819	5.808	5.874	VV	999	16474	0.32%	0.008%
112	5.879	5.874	5.898	VV	128	832	0.02%	0.000%
113	5.915	5.898	5.942	VV	367	4136	0.08%	0.002%

				rteres				
114	5.998	5.942	6.016	PV	3798	55164	1.05%	0.028%
115	6.038	6.016	6.056	VV	4970	79218	1.52%	0.040%
116	6.062	6.056	6.126	VV	2596	61816	1.18%	0.031%
117	6.137	6.126	6.155	VV	957	14549	0.28%	0.007%
118	6.162	6.155	6.182	VV	657	9894	0.19%	0.005%
119	6.195	6.182	6.209	VV	847	10497	0.20%	0.005%
120	6.215	6.209	6.222	VV	657	4453	0.09%	0.002%
121	6.235	6.222	6.243	VV	756	8192	0.16%	0.004%
122	6.258	6.243	6.277	VV	983	14812	0.28%	0.007%
123	6.298	6.277	6.343	VV	7341	96950	1.85%	0.049%
124	6.348	6.343	6.364	VV	800	7361	0.14%	0.004%
125	6.376	6.364	6.387	VV	627	7133	0.14%	0.004%
126	6.404	6.387	6.433	VV	937	14859	0.28%	0.007%
127	6.449	6.433	6.461	VV	378	4801	0.09%	0.002%
128	6.481	6.461	6.514	VV	491	9745	0.19%	0.005%
129	6.549	6.514	6.573	VV	474	9829	0.19%	0.005%
130	6.599	6.573	6.632	VV	703	13586	0.26%	0.007%
131	6.668	6.632	6.688	VV	760	14195	0.27%	0.007%
132	6.705	6.688	6.736	VV	1523	25002	0.48%	0.013%
133	6.763	6.736	6.815	VV	205125	2056613	39.33%	1.030%
134	6.838	6.815	6.867	VV	1455	24444	0.47%	0.012%
135	6.870	6.867	6.888	VV	279	2896	0.06%	0.001%
136	6.891	6.888	6.900	VV	221	1393	0.03%	0.001%
137	6.917	6.900	6.935	VV	534	6545	0.13%	0.003%
138	6.957	6.935	7.003	VV	659	12692	0.24%	0.006%
139	7.013	7.003	7.021	VV	172	1486	0.03%	0.001%
140	7.043	7.021	7.058	VV	273	3494	0.07%	0.002%
141	7.085	7.058	7.118	PV	2010	39401	0.75%	0.020%
142	7.135	7.118	7.157	VV	2128	32943	0.63%	0.016%
143	7.171	7.157	7.186	VV	1579	21179	0.41%	0.011%
144	7.200	7.186	7.235	VV	1684	34948	0.67%	0.018%
145	7.264	7.235	7.279	VV	1989	39943	0.76%	0.020%
146	7.300	7.279	7.327	VV	2288	54511	1.04%	0.027%
147	7.350	7.327	7.365	VV	2311	44475	0.85%	0.022%
148	7.397	7.365	7.418	VV	9823	137771	2.63%	0.069%
149	7.428	7.418	7.473	VV	1769	37243	0.71%	0.019%
150	7.491	7.473	7.514	VV	1615	25366	0.49%	0.013%
151	7.535	7.514	7.568	VV	14281	151812	2.90%	0.076%
152	7.578	7.568	7.595	VV	588	8362	0.16%	0.004%
153	7.608	7.595	7.621	VV	588	7090	0.14%	0.004%
154	7.635	7.621	7.648	VV	824	9339	0.18%	0.005%
155	7.661	7.648	7.688	VV	674	11307	0.22%	0.006%
156	7.714	7.688	7.762	VV	1552	34122	0.65%	0.017%

				rteres				
157	7.773	7.762	7.793	VV	670	10410	0.20%	0.005%
158	7.797	7.793	7.807	VV	367	2622	0.05%	0.001%
159	7.818	7.807	7.823	VV	352	2942	0.06%	0.001%
160	7.836	7.823	7.861	VV	462	6802	0.13%	0.003%
161	7.889	7.861	7.913	VV	448	8332	0.16%	0.004%
162	7.923	7.913	7.962	VV	479	8597	0.16%	0.004%
163	7.965	7.962	7.973	VV	151	763	0.01%	0.000%
164	8.000	7.973	8.026	VV	1001	13172	0.25%	0.007%
165	8.031	8.026	8.047	VV	180	1227	0.02%	0.001%
166	8.056	8.047	8.074	VV	227	2038	0.04%	0.001%
167	8.107	8.074	8.112	PV	371	4440	0.08%	0.002%
168	8.142	8.112	8.163	VV	2736	48551	0.93%	0.024%
169	8.172	8.163	8.224	VV	1769	37542	0.72%	0.019%
170	8.243	8.224	8.262	VV	1242	17524	0.34%	0.009%
171	8.301	8.262	8.354	VV	3851	131039	2.51%	0.066%
172	8.368	8.354	8.381	VV	2607	36126	0.69%	0.018%
173	8.396	8.381	8.403	VV	4843	50292	0.96%	0.025%
174	8.416	8.403	8.457	VV	6321	115420	2.21%	0.058%
175	8.470	8.457	8.482	VV	1838	24732	0.47%	0.012%
176	8.516	8.482	8.533	VV	16524	203623	3.89%	0.102%
177	8.545	8.533	8.558	VV	8412	90200	1.73%	0.045%
178	8.597	8.558	8.645	VV	199885	2267192	43.36%	1.135%
179	8.673	8.645	8.679	VV	6888	81099	1.55%	0.041%
180	8.703	8.679	8.750	VV	56107	783162	14.98%	0.392%
181	8.755	8.750	8.777	VV	3118	43155	0.83%	0.022%
182	8.794	8.777	8.821	VV	5584	69975	1.34%	0.035%
183	8.844	8.821	8.878	VV	1039	21090	0.40%	0.011%
184	8.883	8.878	8.892	VV	322	2206	0.04%	0.001%
185	8.907	8.892	8.916	VV	473	5264	0.10%	0.003%
186	8.952	8.916	8.976	VV	1809	35574	0.68%	0.018%
187	9.001	8.976	9.032	VV	21932	242139	4.63%	0.121%
188	9.050	9.032	9.069	VV	3759	53260	1.02%	0.027%
189	9.072	9.069	9.101	VV	1835	25719	0.49%	0.013%
190	9.121	9.101	9.131	VV	1830	25045	0.48%	0.013%
191	9.136	9.131	9.153	VV	1528	18010	0.34%	0.009%
192	9.168	9.153	9.182	VV	2168	27259	0.52%	0.014%
193	9.195	9.182	9.212	VV	1920	28134	0.54%	0.014%
194	9.244	9.212	9.261	VV	5828	107007	2.05%	0.054%
195	9.277	9.261	9.301	VV	8616	105834	2.02%	0.053%
196	9.319	9.301	9.338	VV	4532	69590	1.33%	0.035%
197	9.352	9.338	9.361	VV	3006	37373	0.71%	0.019%
198	9.368	9.361	9.388	VV	2963	36388	0.70%	0.018%
199	9.416	9.388	9.436	VV	7083	104031	1.99%	0.052%
200	9.455	9.436	9.494	VV	9229	135480	2.59%	0.068%

rters

201	9.513	9.494	9.543	VV	5526	80420	1.54%	0.040%
202	9.570	9.543	9.588	VV	9183	122334	2.34%	0.061%
203	9.603	9.588	9.622	VV	7378	82367	1.58%	0.041%
204	9.656	9.622	9.677	VV	13781	196401	3.76%	0.098%
205	9.687	9.677	9.694	VV	2929	27228	0.52%	0.014%
206	9.708	9.694	9.730	VV	6226	74474	1.42%	0.037%
207	9.751	9.730	9.771	VV	11690	140632	2.69%	0.070%
208	9.791	9.771	9.850	VV	24669	445889	8.53%	0.223%
209	9.871	9.850	9.888	VV	6728	83591	1.60%	0.042%
210	9.938	9.888	9.962	VV	12490	243644	4.66%	0.122%
211	9.975	9.962	9.986	VV	3484	42919	0.82%	0.021%
212	10.002	9.986	10.028	VV	6383	93912	1.80%	0.047%
213	10.071	10.028	10.094	VV	49034	649603	12.42%	0.325%
214	10.114	10.094	10.154	VV	8127	172882	3.31%	0.087%
215	10.167	10.154	10.178	VV	3418	40990	0.78%	0.021%
216	10.206	10.178	10.260	VV	191837	2271140	43.43%	1.137%
217	10.291	10.260	10.305	VV	3026	65595	1.25%	0.033%
218	10.312	10.305	10.345	VV	2770	40699	0.78%	0.020%
219	10.376	10.345	10.401	VV	2248	43172	0.83%	0.022%
220	10.415	10.401	10.433	VV	1890	19916	0.38%	0.010%
221	10.460	10.433	10.473	PV	1243	16615	0.32%	0.008%
222	10.489	10.473	10.522	VV	1761	31894	0.61%	0.016%
223	10.544	10.522	10.575	VV	5703	86688	1.66%	0.043%
224	10.592	10.575	10.609	VV	1649	20729	0.40%	0.010%
225	10.651	10.609	10.662	VV	7246	125805	2.41%	0.063%
226	10.678	10.662	10.700	VV	13353	187771	3.59%	0.094%
227	10.717	10.700	10.751	VV	11171	146740	2.81%	0.073%
228	10.771	10.751	10.778	VV	3093	35434	0.68%	0.018%
229	10.796	10.778	10.826	VV	11525	203832	3.90%	0.102%
230	10.847	10.826	10.898	VV	19793	327756	6.27%	0.164%
231	10.964	10.898	10.978	VV	8022	237758	4.55%	0.119%
232	11.001	10.978	11.041	VV	20958	330751	6.33%	0.166%
233	11.073	11.041	11.083	VV	3297	57272	1.10%	0.029%
234	11.096	11.083	11.113	VV	3527	44760	0.86%	0.022%
235	11.128	11.113	11.151	VV	2157	41051	0.79%	0.021%
236	11.168	11.151	11.176	VV	4667	46625	0.89%	0.023%
237	11.201	11.176	11.244	VV	232335	2555202	48.87%	1.280%
238	11.275	11.244	11.319	VV	82112	1004807	19.22%	0.503%
239	11.327	11.319	11.343	VV	2829	33505	0.64%	0.017%
240	11.352	11.343	11.363	VV	1755	18204	0.35%	0.009%
241	11.376	11.363	11.397	VV	1614	25905	0.50%	0.013%
242	11.406	11.397	11.426	VV	957	10898	0.21%	0.005%
243	11.448	11.426	11.469	PV	2723	38971	0.75%	0.020%

				rteres				
244	11.490	11.469	11.533	VV	19025	279857	5.35%	0.140%
245	11.562	11.533	11.578	VV	3759	70660	1.35%	0.035%
246	11.594	11.578	11.616	VV	5165	82497	1.58%	0.041%
247	11.652	11.616	11.678	VV	184565	2186967	41.83%	1.095%
248	11.694	11.678	11.704	VV	8654	113276	2.17%	0.057%
249	11.725	11.704	11.771	VV	24409	418182	8.00%	0.209%
250	11.803	11.771	11.824	VV	6866	129922	2.48%	0.065%
251	11.854	11.824	11.876	VV	19086	272486	5.21%	0.136%
252	11.895	11.876	11.940	VV	9364	176081	3.37%	0.088%
253	11.956	11.940	11.973	VV	4215	55682	1.06%	0.028%
254	12.005	11.973	12.020	VV	51360	647679	12.39%	0.324%
255	12.036	12.020	12.064	VV	58992	652752	12.48%	0.327%
256	12.069	12.064	12.079	VV	1577	13514	0.26%	0.007%
257	12.120	12.079	12.136	VV	39562	691698	13.23%	0.346%
258	12.154	12.136	12.168	VV	43854	511220	9.78%	0.256%
259	12.184	12.168	12.216	VV	52718	636151	12.17%	0.319%
260	12.230	12.216	12.240	VV	1074	12496	0.24%	0.006%
261	12.263	12.240	12.285	VV	3635	51569	0.99%	0.026%
262	12.327	12.285	12.338	PV	4238	82540	1.58%	0.041%
263	12.364	12.338	12.383	VV	24921	322530	6.17%	0.162%
264	12.406	12.383	12.451	VV	11205	235850	4.51%	0.118%
265	12.478	12.451	12.496	VV	20810	265600	5.08%	0.133%
266	12.508	12.496	12.523	VV	10282	125177	2.39%	0.063%
267	12.540	12.523	12.554	VV	13966	177882	3.40%	0.089%
268	12.579	12.554	12.608	VV	109988	1412593	27.02%	0.707%
269	12.625	12.608	12.634	VV	8203	110082	2.11%	0.055%
270	12.655	12.634	12.671	VV	11004	180426	3.45%	0.090%
271	12.686	12.671	12.698	VV	10416	129894	2.48%	0.065%
272	12.708	12.698	12.720	VV	8603	98706	1.89%	0.049%
273	12.732	12.720	12.739	VV	7900	85146	1.63%	0.043%
274	12.757	12.739	12.780	VV	10395	202030	3.86%	0.101%
275	12.798	12.780	12.838	VV	19818	347302	6.64%	0.174%
276	12.860	12.838	12.886	VV	19308	310935	5.95%	0.156%
277	12.909	12.886	12.928	VV	53999	705566	13.49%	0.353%
278	12.967	12.928	12.996	VV	195535	2764903	52.88%	1.385%
279	13.028	12.996	13.073	VV	263901	3172125	60.67%	1.588%
280	13.085	13.073	13.103	VV	1598	17433	0.33%	0.009%
281	13.122	13.103	13.139	VV	6455	89804	1.72%	0.045%
282	13.161	13.139	13.195	VV	26779	470301	8.99%	0.236%
283	13.212	13.195	13.227	VV	24176	314037	6.01%	0.157%
284	13.233	13.227	13.251	VV	14307	174309	3.33%	0.087%
285	13.267	13.251	13.298	VV	14289	260892	4.99%	0.131%
286	13.327	13.298	13.355	VV	241144	2783084	53.23%	1.394%

					rteres			
287	13.380	13.355	13.396	VV	19680	286184	5.47%	0.143%
288	13.413	13.396	13.445	VV	22367	339053	6.48%	0.170%
289	13.462	13.445	13.480	VV	6317	102198	1.95%	0.051%
290	13.498	13.480	13.513	VV	10985	154583	2.96%	0.077%
291	13.527	13.513	13.553	VV	9853	148476	2.84%	0.074%
292	13.596	13.553	13.638	PV	14420	372917	7.13%	0.187%
293	13.659	13.638	13.693	VV	19013	330227	6.32%	0.165%
294	13.722	13.693	13.738	VV	15585	248157	4.75%	0.124%
295	13.751	13.738	13.764	VV	12350	168160	3.22%	0.084%
296	13.784	13.764	13.797	VV	26219	379349	7.25%	0.190%
297	13.808	13.797	13.863	VV	24165	461992	8.84%	0.231%
298	13.915	13.863	13.952	VV	60042	1135960	21.72%	0.569%
299	13.965	13.952	13.971	VV	7410	76760	1.47%	0.038%
300	13.982	13.971	14.000	VV	8201	107902	2.06%	0.054%
301	14.024	14.000	14.042	VV	30316	403723	7.72%	0.202%
302	14.062	14.042	14.087	VV	38264	524807	10.04%	0.263%
303	14.103	14.087	14.127	VV	10549	195730	3.74%	0.098%
304	14.169	14.127	14.214	VV	172022	2858552	54.67%	1.431%
305	14.233	14.214	14.274	VV	34753	452062	8.65%	0.226%
306	14.305	14.274	14.330	VV	5108	95331	1.82%	0.048%
307	14.349	14.330	14.360	VV	2777	33600	0.64%	0.017%
308	14.380	14.360	14.409	VV	4350	87175	1.67%	0.044%
309	14.426	14.409	14.458	VV	2344	42007	0.80%	0.021%
310	14.503	14.458	14.516	PV	3806	60358	1.15%	0.030%
311	14.536	14.516	14.550	VV	5062	70186	1.34%	0.035%
312	14.558	14.550	14.571	VV	3556	37539	0.72%	0.019%
313	14.590	14.571	14.595	VV	5689	62589	1.20%	0.031%
314	14.622	14.595	14.632	VV	13714	246284	4.71%	0.123%
315	14.653	14.632	14.695	VV	27827	470713	9.00%	0.236%
316	14.735	14.695	14.740	VV	12175	193590	3.70%	0.097%
317	14.755	14.740	14.803	VV	15227	345962	6.62%	0.173%
318	14.833	14.803	14.851	VV	34325	564846	10.80%	0.283%
319	14.857	14.851	14.873	VV	14921	165132	3.16%	0.083%
320	14.896	14.873	14.916	VV	44046	604162	11.55%	0.303%
321	14.958	14.916	14.993	VV	28279	535870	10.25%	0.268%
322	15.018	14.993	15.038	VV	10100	154860	2.96%	0.078%
323	15.071	15.038	15.117	VV	96968	1529609	29.25%	0.766%
324	15.131	15.117	15.135	PV	887	6005	0.11%	0.003%
325	15.161	15.135	15.178	VV	17970	219711	4.20%	0.110%
326	15.208	15.178	15.228	VV	98847	1349010	25.80%	0.676%
327	15.251	15.228	15.261	VV	118877	1524445	29.15%	0.763%
328	15.275	15.261	15.310	VV	155098	2063491	39.46%	1.033%
329	15.315	15.310	15.333	VV	4228	46415	0.89%	0.023%
330	15.369	15.333	15.398	VV	28917	525939	10.06%	0.263%

rters

331	15.413	15.398	15.431	VV	13460	199394	3.81%	0.100%
332	15.452	15.431	15.480	VV	9480	174970	3.35%	0.088%
333	15.517	15.480	15.548	PV	19773	434477	8.31%	0.218%
334	15.568	15.548	15.604	VV	13332	277602	5.31%	0.139%
335	15.625	15.604	15.629	VV	8197	100012	1.91%	0.050%
336	15.658	15.629	15.717	VV	54749	1209712	23.14%	0.606%
337	15.722	15.717	15.738	VV	2619	26490	0.51%	0.013%
338	15.763	15.738	15.769	VV	4871	67415	1.29%	0.034%
339	15.799	15.769	15.823	VV	11185	212617	4.07%	0.106%
340	15.840	15.823	15.855	VV	9190	127039	2.43%	0.064%
341	15.884	15.855	15.905	VV	45692	670287	12.82%	0.336%
342	15.922	15.905	15.952	VV	22187	325462	6.22%	0.163%
343	15.969	15.952	15.981	VV	8014	114645	2.19%	0.057%
344	16.051	15.981	16.085	VV	28481	877518	16.78%	0.439%
345	16.099	16.085	16.106	VV	4381	48758	0.93%	0.024%
346	16.124	16.106	16.150	VV	7783	138935	2.66%	0.070%
347	16.172	16.150	16.192	VV	5065	104301	1.99%	0.052%
348	16.208	16.192	16.226	VV	7322	111528	2.13%	0.056%
349	16.254	16.226	16.268	VV	7928	144135	2.76%	0.072%
350	16.300	16.268	16.346	VV	150744	2142679	40.98%	1.073%
351	16.354	16.346	16.376	VV	4154	51861	0.99%	0.026%
352	16.394	16.376	16.399	VV	2463	29538	0.56%	0.015%
353	16.415	16.399	16.431	VV	3145	40570	0.78%	0.020%
354	16.438	16.431	16.444	VV	452	2930	0.06%	0.001%
355	16.495	16.444	16.513	PV	10279	211332	4.04%	0.106%
356	16.524	16.513	16.541	VV	6239	75658	1.45%	0.038%
357	16.560	16.541	16.568	VV	7217	85115	1.63%	0.043%
358	16.597	16.568	16.621	VV	16034	330924	6.33%	0.166%
359	16.649	16.621	16.657	VV	7598	145354	2.78%	0.073%
360	16.684	16.657	16.726	VV	23385	569701	10.90%	0.285%
361	16.775	16.726	16.794	VV	97816	1557229	29.78%	0.780%
362	16.799	16.794	16.844	VV	43011	455487	8.71%	0.228%
363	16.860	16.844	16.877	VV	4833	71490	1.37%	0.036%
364	16.904	16.877	16.931	VV	26684	404590	7.74%	0.203%
365	16.954	16.931	16.986	VV	7442	150919	2.89%	0.076%
366	17.024	16.986	17.036	VV	6594	110692	2.12%	0.055%
367	17.095	17.036	17.123	VV	66701	1246973	23.85%	0.624%
368	17.154	17.123	17.195	VV	84853	1132478	21.66%	0.567%
369	17.255	17.195	17.289	VV	168020	2462847	47.10%	1.233%
370	17.331	17.289	17.349	VV	12064	334184	6.39%	0.167%
371	17.412	17.349	17.440	VV	13973	532823	10.19%	0.267%
372	17.464	17.440	17.479	VV	10698	203977	3.90%	0.102%
373	17.521	17.479	17.593	VV	24482	931059	17.81%	0.466%

				rteres				
374	17.627	17.593	17.645	VV	27010	551396	10.55%	0.276%
375	17.654	17.645	17.670	VV	24423	322470	6.17%	0.161%
376	17.682	17.670	17.693	VV	21526	269725	5.16%	0.135%
377	17.703	17.693	17.725	VV	21068	319995	6.12%	0.160%
378	17.741	17.725	17.757	VV	15223	239404	4.58%	0.120%
379	17.774	17.757	17.791	VV	12610	223307	4.27%	0.112%
380	17.817	17.791	17.841	VV	21681	475984	9.10%	0.238%
381	17.859	17.841	17.872	VV	13918	237759	4.55%	0.119%
382	17.879	17.872	17.897	VV	11901	153928	2.94%	0.077%
383	17.912	17.897	17.917	VV	11195	120664	2.31%	0.060%
384	17.937	17.917	17.957	VV	11169	240566	4.60%	0.120%
385	17.966	17.957	17.981	VV	8788	112424	2.15%	0.056%
386	17.999	17.981	18.015	VV	11841	205454	3.93%	0.103%
387	18.042	18.015	18.057	VV	12619	293133	5.61%	0.147%
388	18.063	18.057	18.069	VV	12925	82161	1.57%	0.041%
389	18.084	18.069	18.089	VV	14436	160737	3.07%	0.080%
390	18.146	18.089	18.176	VV	156991	2784459	53.25%	1.394%
391	18.182	18.176	18.185	VV	12144	64946	1.24%	0.033%
392	18.234	18.185	18.240	VV	18721	508620	9.73%	0.255%
393	18.253	18.240	18.270	VV	19203	307224	5.88%	0.154%
394	18.296	18.270	18.300	VV	22204	339101	6.49%	0.170%
395	18.325	18.300	18.357	VV	24888	728404	13.93%	0.365%
396	18.383	18.357	18.413	VV	24506	638111	12.20%	0.320%
397	18.440	18.413	18.456	VV	31991	594121	11.36%	0.298%
398	18.468	18.456	18.484	VV	21568	340425	6.51%	0.170%
399	18.530	18.484	18.552	VV	82104	1894876	36.24%	0.949%
400	18.570	18.552	18.602	VV	48854	964630	18.45%	0.483%
401	18.615	18.602	18.639	VV	21446	435582	8.33%	0.218%
402	18.663	18.639	18.680	VV	39413	722519	13.82%	0.362%
403	18.698	18.680	18.755	VV	36267	1217550	23.29%	0.610%
404	18.787	18.755	18.812	VV	81936	1448815	27.71%	0.726%
405	18.828	18.812	18.842	VV	25304	421707	8.07%	0.211%
406	18.848	18.842	18.855	VV	23161	181428	3.47%	0.091%
407	18.869	18.855	18.883	VV	28367	434824	8.32%	0.218%
408	18.918	18.883	18.940	VV	40515	1064270	20.35%	0.533%
409	18.943	18.940	18.948	VV	27381	133668	2.56%	0.067%
410	18.982	18.948	19.022	VV	173706	3243405	62.03%	1.624%
411	19.025	19.022	19.038	VV	28050	251780	4.82%	0.126%
412	19.045	19.038	19.063	VV	26166	371096	7.10%	0.186%
413	19.089	19.063	19.112	VV	34979	897142	17.16%	0.449%
414	19.116	19.112	19.122	VV	29071	170976	3.27%	0.086%
415	19.138	19.122	19.162	VV	32566	746615	14.28%	0.374%
416	19.180	19.162	19.184	VV	30686	380751	7.28%	0.191%

					rteres			
417	19.197	19.184	19.203	VV	31071	347647	6.65%	0.174%
418	19.221	19.203	19.237	VV	37768	693879	13.27%	0.347%
419	19.242	19.237	19.245	VV	30758	128620	2.46%	0.064%
420	19.258	19.245	19.265	VV	35299	404352	7.73%	0.202%
421	19.271	19.265	19.278	VV	34770	253076	4.84%	0.127%
422	19.301	19.278	19.322	VV	45656	1057186	20.22%	0.529%
423	19.343	19.322	19.432	VV	62962	3129117	59.84%	1.567%
424	19.472	19.432	19.494	VV	48692	1502590	28.74%	0.752%
425	19.502	19.494	19.536	VV	41369	970662	18.56%	0.486%
426	19.561	19.536	19.567	VV	37560	658291	12.59%	0.330%
427	19.592	19.567	19.608	VV	39773	937696	17.93%	0.470%
428	19.647	19.608	19.680	VV	46399	1797665	34.38%	0.900%
429	19.684	19.680	19.700	VV	40662	476894	9.12%	0.239%
430	19.771	19.700	19.818	VV	195046	5228843	100.00%	2.618%
431	19.831	19.818	19.849	VV	48626	821852	15.72%	0.412%
432	19.886	19.849	19.917	VV	53533	1879657	35.95%	0.941%
433	19.952	19.917	19.991	VV	76869	2591969	49.57%	1.298%
434	20.018	19.991	20.038	VV	71001	1736242	33.21%	0.869%
435	20.042	20.038	20.046	VV	53653	252638	4.83%	0.127%
436	20.054	20.046	20.073	VV	55421	870000	16.64%	0.436%
437	20.078	20.073	20.089	VV	54121	507358	9.70%	0.254%
438	20.123	20.089	20.172	VV	68889	2987279	57.13%	1.496%
439	20.178	20.172	20.190	VV	52440	524108	10.02%	0.262%
440	20.211	20.190	20.217	VV	52313	837976	16.03%	0.420%
441	20.226	20.217	20.263	VV	54245	1410833	26.98%	0.706%
442	20.268	20.263	20.277	VV	49129	385265	7.37%	0.193%
443	20.329	20.277	20.355	VV	83261	3147010	60.19%	1.576%
444	20.359	20.355	20.363	VV	60741	297662	5.69%	0.149%
445	20.392	20.363	20.408	VV	72222	1807095	34.56%	0.905%
446	20.414	20.408	20.442	VV	68905	1346594	25.75%	0.674%
447	20.449	20.442	20.455	VV	62335	473495	9.06%	0.237%
448	20.467	20.455	20.479	VV	65797	928264	17.75%	0.465%
449	20.513	20.479	20.551	VV	218346	4925645	94.20%	2.467%
450	20.555	20.551	20.559	VV	60311	298198	5.70%	0.149%
451	20.573	20.559	20.582	VV	63721	837790	16.02%	0.420%
452	20.590	20.582	20.597	VV	65058	583712	11.16%	0.292%
453	20.619	20.597	20.623	VV	66854	1035865	19.81%	0.519%
454	20.676	20.623	20.693	VV	75085	2919854	55.84%	1.462%
455	20.697	20.693	20.702	VV	69459	363846	6.96%	0.182%
456	20.709	20.702	20.740	VV	68929	1522034	29.11%	0.762%
457	20.748	20.740	20.756	VV	62891	599791	11.47%	0.300%
458	20.760	20.756	20.775	VV	62143	686034	13.12%	0.344%
459	20.785	20.775	20.807	VV	60795	1119378	21.41%	0.561%
460	20.821	20.807	20.828	VV	59856	769891	14.72%	0.386%

rtres

461	20.839	20.828	20.860	VV	60910	1130439	21.62%	0.566%
462	20.863	20.860	20.869	VV	59212	300079	5.74%	0.150%
463	20.878	20.869	20.882	VV	58799	473860	9.06%	0.237%
464	20.894	20.882	20.904	VV	61263	784835	15.01%	0.393%
465	20.924	20.904	20.947	VV	62741	1523835	29.14%	0.763%
466	20.950	20.947	20.961	VV	56763	476599	9.11%	0.239%
467	20.982	20.961	21.006	VV	60189	1577299	30.17%	0.790%
468	21.014	21.006	21.041	VV	58303	1175729	22.49%	0.589%
469	21.046	21.041	21.053	VV	52194	343098	6.56%	0.172%
470	21.056	21.053	21.083	VV	51506	903623	17.28%	0.452%
471	21.089	21.083	21.095	VV	49106	331254	6.34%	0.166%
472	21.102	21.095	21.106	VV	49292	322587	6.17%	0.162%
473	21.127	21.106	21.136	VV	50420	883033	16.89%	0.442%
474	21.144	21.136	21.162	VV	49824	758632	14.51%	0.380%
475	21.165	21.162	21.186	VV	48378	695933	13.31%	0.348%
476	21.201	21.186	21.209	VV	46386	626134	11.97%	0.314%
477	21.217	21.209	21.223	VV	46797	390138	7.46%	0.195%
478	21.274	21.223	21.332	VV	162126	4940618	94.49%	2.474%
479	21.345	21.332	21.362	VV	40140	686192	13.12%	0.344%
480	21.378	21.362	21.416	VV	39710	1219560	23.32%	0.611%
481	21.423	21.416	21.447	VV	35644	630362	12.06%	0.316%
482	21.466	21.447	21.495	VV	37482	1020941	19.53%	0.511%
483	21.521	21.495	21.528	VV	37967	722023	13.81%	0.362%
484	21.541	21.528	21.562	VV	38411	734715	14.05%	0.368%
485	21.566	21.562	21.578	VV	35953	352359	6.74%	0.176%
486	21.584	21.578	21.609	VV	36316	601842	11.51%	0.301%
487	21.616	21.609	21.623	VV	31260	258168	4.94%	0.129%
488	21.627	21.623	21.647	VV	29835	396308	7.58%	0.198%
489	21.651	21.647	21.699	VV	28245	777325	14.87%	0.389%
490	21.760	21.699	21.795	VV	33529	1662451	31.79%	0.832%
491	21.803	21.795	21.828	VV	28284	518318	9.91%	0.260%
492	21.839	21.828	21.860	VV	25534	459043	8.78%	0.230%
493	21.881	21.860	21.898	VV	25188	549013	10.50%	0.275%
494	21.912	21.898	21.918	VV	23350	259897	4.97%	0.130%
495	21.928	21.918	21.933	VV	24140	222494	4.26%	0.111%
496	21.938	21.933	21.959	VV	23252	335913	6.42%	0.168%
497	21.982	21.959	22.012	VV	22468	650208	12.44%	0.326%
498	22.028	22.012	22.046	VV	18697	374246	7.16%	0.187%
499	22.077	22.046	22.117	VV	22945	728154	13.93%	0.365%
500	22.154	22.117	22.172	VV	19357	505951	9.68%	0.253%
501	22.226	22.172	22.297	VV	98013	2953861	56.49%	1.479%
502	22.301	22.297	22.307	VV	6163	37443	0.72%	0.019%
503	22.313	22.307	22.335	VV	6610	83148	1.59%	0.042%

				rteres				
504	22.342	22.335	22.347	VV	3662	22902	0.44%	0.011%
505	22.355	22.347	22.368	VV	4421	36183	0.69%	0.018%
506	22.373	22.368	22.393	VV	2823	23436	0.45%	0.012%
				Sum of corrected areas:		199698722		

FF090525.M Fri Oct 03 07:18:06 2025

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
5 TRPH STD		FF016339.D	FF090525	N-TETRACONTANE	mohammad	9/9/2025 12:27:38 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
PB169938BS		FF016496.D	FF100125	N-OCTATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3215-01		FF016502.D	FF100125	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF090525

Review By	yogesh	Review On	9/5/2025 11:10:24 AM
Supervise By	mohammad	Supervise On	9/9/2025 12:27:38 AM
SubDirectory	FF090525	HP Acquire Method	HP Processing Method FF090525
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	FF016333.D	05 Sep 2025 09:26	YP\AJ	Ok
2	I.BLK	FF016334.D	05 Sep 2025 09:55	YP\AJ	Ok
3	100 TRPH STD	FF016335.D	05 Sep 2025 10:25	YP\AJ	Ok
4	50 TRPH STD	FF016336.D	05 Sep 2025 10:55	YP\AJ	Ok
5	20 TRPH STD	FF016337.D	05 Sep 2025 11:24	YP\AJ	Ok
6	10 TRPH STD	FF016338.D	05 Sep 2025 11:54	YP\AJ	Ok
7	5 TRPH STD	FF016339.D	05 Sep 2025 12:24	YP\AJ	Ok,M
8	100 TRPH STD	FF016340.D	05 Sep 2025 14:55	YP\AJ	Ok
9	FF090525ICV	FF016341.D	05 Sep 2025 15:25	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525
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	FF016481.D	01 Oct 2025 08:58	YP\AJ	Ok
2	I.BLK	FF016482.D	01 Oct 2025 09:28	YP\AJ	Ok
3	50 PPM TRPH STD	FF016483.D	01 Oct 2025 10:43	YP\AJ	Ok
4	RT MARKER	FF016484.D	01 Oct 2025 11:12	YP\AJ	Ok
5	PB169930BL	FF016485.D	01 Oct 2025 11:58	YP\AJ	Ok
6	PB169930BS	FF016486.D	01 Oct 2025 12:27	YP\AJ	Ok
7	Q3157-01	FF016487.D	01 Oct 2025 12:56	YP\AJ	Ok
8	Q3157-01MS	FF016488.D	01 Oct 2025 13:26	YP\AJ	Ok
9	Q3157-01MSD	FF016489.D	01 Oct 2025 13:55	YP\AJ	Ok
10	I.BLK	FF016490.D	01 Oct 2025 14:25	YP\AJ	Ok
11	50 PPM TRPH STD	FF016491.D	01 Oct 2025 14:55	YP\AJ	Ok
12	I.BLK	FF016492.D	01 Oct 2025 15:24	YP\AJ	Ok
13	50 PPM TRPH STD	FF016493.D	01 Oct 2025 15:54	YP\AJ	Ok
14	RT MARKER	FF016494.D	01 Oct 2025 16:23	YP\AJ	Ok
15	PB169938BL	FF016495.D	01 Oct 2025 16:53	YP\AJ	Ok
16	PB169938BS	FF016496.D	01 Oct 2025 17:24	YP\AJ	Ok,NS
17	Q3215-01	FF016497.D	01 Oct 2025 17:54	YP\AJ	Ok
18	Q3216-01	FF016498.D	01 Oct 2025 18:23	YP\AJ	Ok
19	Q3216-01MS	FF016499.D	01 Oct 2025 18:53	YP\AJ	Ok
20	Q3216-01MSD	FF016500.D	01 Oct 2025 19:23	YP\AJ	Ok
21	Q3238-01	FF016501.D	01 Oct 2025 19:52	YP\AJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525
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		

22	Q3215-01	FF016502.D	01 Oct 2025 20:21	YP\AJ	Not Ok
23	Q3216-01	FF016503.D	01 Oct 2025 20:51	YP\AJ	Not Ok
24	Q3238-01	FF016504.D	01 Oct 2025 21:21	YP\AJ	Not Ok
25	I.BLK	FF016505.D	01 Oct 2025 21:50	YP\AJ	Ok
26	50 PPM TRPH STD	FF016506.D	01 Oct 2025 22:20	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF090525

Review By	yogesh	Review On	9/5/2025 11:10:24 AM
Supervise By	mohammad	Supervise On	9/9/2025 12:27:38 AM
SubDirectory	FF090525	HP Acquire Method	HP Processing Method FF090525

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		FF016333.D	05 Sep 2025 09:26		YP\AJ	Ok
2	I.BLK		FF016334.D	05 Sep 2025 09:55		YP\AJ	Ok
3	100 TRPH STD		FF016335.D	05 Sep 2025 10:25		YP\AJ	Ok
4	50 TRPH STD		FF016336.D	05 Sep 2025 10:55		YP\AJ	Ok
5	20 TRPH STD		FF016337.D	05 Sep 2025 11:24		YP\AJ	Ok
6	10 TRPH STD		FF016338.D	05 Sep 2025 11:54		YP\AJ	Ok
7	5 TRPH STD		FF016339.D	05 Sep 2025 12:24		YP\AJ	Ok,M
8	100 TRPH STD		FF016340.D	05 Sep 2025 14:55		YP\AJ	Ok
9	FF090525ICV		FF016341.D	05 Sep 2025 15:25		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525
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		FF016481.D	01 Oct 2025 08:58		YPIAJ	Ok
2	I.BLK		FF016482.D	01 Oct 2025 09:28		YPIAJ	Ok
3	50 PPM TRPH STD		FF016483.D	01 Oct 2025 10:43		YPIAJ	Ok
4	RT MARKER		FF016484.D	01 Oct 2025 11:12		YPIAJ	Ok
5	PB169930BL		FF016485.D	01 Oct 2025 11:58		YPIAJ	Ok
6	PB169930BS		FF016486.D	01 Oct 2025 12:27		YPIAJ	Ok
7	Q3157-01		FF016487.D	01 Oct 2025 12:56		YPIAJ	Ok
8	Q3157-01MS		FF016488.D	01 Oct 2025 13:26		YPIAJ	Ok
9	Q3157-01MSD		FF016489.D	01 Oct 2025 13:55		YPIAJ	Ok
10	I.BLK		FF016490.D	01 Oct 2025 14:25		YPIAJ	Ok
11	50 PPM TRPH STD		FF016491.D	01 Oct 2025 14:55		YPIAJ	Ok
12	I.BLK		FF016492.D	01 Oct 2025 15:24		YPIAJ	Ok
13	50 PPM TRPH STD		FF016493.D	01 Oct 2025 15:54		YPIAJ	Ok
14	RT MARKER		FF016494.D	01 Oct 2025 16:23		YPIAJ	Ok
15	PB169938BL		FF016495.D	01 Oct 2025 16:53		YPIAJ	Ok
16	PB169938BS		FF016496.D	01 Oct 2025 17:24		YPIAJ	Ok,NS
17	Q3215-01		FF016497.D	01 Oct 2025 17:54		YPIAJ	Ok
18	Q3216-01		FF016498.D	01 Oct 2025 18:23		YPIAJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525
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			

19	Q3216-01MS		FF016499.D	01 Oct 2025 18:53		YPIAJ	Ok
20	Q3216-01MSD		FF016500.D	01 Oct 2025 19:23		YPIAJ	Ok
21	Q3238-01		FF016501.D	01 Oct 2025 19:52		YPIAJ	Ok
22	Q3215-01		FF016502.D	01 Oct 2025 20:21	not required	YPIAJ	Not Ok
23	Q3216-01		FF016503.D	01 Oct 2025 20:51	not required	YPIAJ	Not Ok
24	Q3238-01		FF016504.D	01 Oct 2025 21:21	not required	YPIAJ	Not Ok
25	I.BLK		FF016505.D	01 Oct 2025 21:50		YPIAJ	Ok
26	50 PPM TRPH STD		FF016506.D	01 Oct 2025 22:20		YPIAJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: rubina
Date: 9/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN #1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 09:20
Out Date: 09/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB137341

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
Q3215-01	WASTE	1	1.18	10.23	11.41	10.44	90.5	
Q3216-01	WASTE	2	1.19	10.62	11.81	10.67	89.3	
Q3216-02	VOC	3	1.19	10.50	11.69	10.44	88.1	
Q3216-03	1	4	1.16	10.34	11.5	10.53	90.6	
Q3216-04	2	5	1.16	10.69	11.85	10.81	90.3	
Q3216-05	3	6	1.15	10.36	11.51	10.5	90.3	
Q3216-06	4	7	1.18	10.51	11.69	10.72	90.8	
Q3216-07	5	8	1.19	10.41	11.6	10.52	89.6	
Q3220-01	OR-03-092625	9	1.18	10.87	12.05	10.76	88.1	
Q3220-02	OR-03-092625-E2	10	1.16	10.65	11.81	10.54	88.1	
Q3221-01	HD-01-092625	11	1.13	10.49	11.62	10.53	89.6	
Q3221-02	HD-01-092625-E2	12	1.18	10.45	11.63	10.18	86.1	
Q3222-01	SU-03-092625	13	1.19	10.31	11.5	10.46	89.9	
Q3222-02	SU-03-092625-E2	14	1.13	10.77	11.9	10.77	89.5	
Q3223-01	917	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3223-02	917-A	16	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3223-03	2027	17	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3223-04	2028	18	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3224-01	60159	19	1.00	1.00	2.00	2.00	100.0	oil sample
Q3225-01	60052	20	1.00	1.00	2.00	2.00	100.0	oil sample
Q3226-05	SVOC-GPC-BLANK	21	1.00	1.00	2.00	2.00	100.0	
Q3226-06	PEST-GPC-BLANK	22	1.00	1.00	2.00	2.00	100.0	
Q3226-07	PEST-GPC-BLANK-SPIKE	23	1.00	1.00	2.00	2.00	100.0	
Q3226-09	PEST-GPC2-BLANK	24	1.00	1.00	2.00	2.00	100.0	
Q3226-10	PEST -GPC2-BLANK-SPIKE	25	1.00	1.00	2.00	2.00	100.0	
Q3230-01	WALL-PROBE-BRICK-1	26	1.14	10.40	11.54	9.81	83.4	
Q3231-01	WC-1	27	1.12	10.62	11.74	10.08	84.4	
Q3231-02	WC-1-EPH	28	1.14	10.31	11.45	10.04	86.3	



PERCENT SOLID

Supervisor: Iwona
Analyst: rubina
Date: 9/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN #1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 09:20
Out Date: 09/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB137341

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
Q3231-03	WC-1-VOC	29	1.12	11.52	12.64	10.63	82.6	
Q3231-05	WC-2	30	1.19	10.17	11.36	9.7	83.7	
Q3231-06	WC-2-EPH	31	1.18	10.31	11.49	9.78	83.4	
Q3231-07	WC-2-VOC	32	1.19	10.83	12.02	10.37	84.8	
Q3231-09	WC-3	33	1.15	10.00	11.15	9.88	87.3	
Q3231-10	WC-3-EPH	34	1.16	10.34	11.5	10.15	86.9	
Q3231-11	WC-3-VOC	35	1.17	11.06	12.23	10.57	85.0	
Q3231-13	WC-4	36	1.16	10.79	11.95	10.81	89.4	
Q3231-14	WC-4-EPH	37	1.13	11.90	13.03	10.87	81.8	
Q3231-15	WC-4-VOC	38	1.14	11.74	12.88	11.3	86.5	
Q3232-01	CONC-1	39	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3233-01	0926-01	40	1.18	11.05	12.23	12.11	98.9	

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

WORKLIST(Hardcopy Internal Chain)

89 137341

WorkList Name : %1-092625

WorkList ID : 192106

Department : Wet-Chemistry

Date : 09-26-2025 08:04:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3215-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3220-01	OR-03-092625	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3220-02	OR-03-092625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3221-01	HD-01-092625	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3221-02	HD-01-092625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3222-01	SU-03-092625	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3222-02	SU-03-092625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3223-01	917	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3223-02	917-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3223-03	2027	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3223-04	2028	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3224-01	60159	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3225-01	60052	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3226-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO

Date/Time 09/26/25 15:10

Raw Sample Received by: JF Coo

Raw Sample Relinquished by: Rm 8m

Date/Time 09/26/25

Raw Sample Received by: Rm 8m

Raw Sample Relinquished by: JF Coo

WORKLIST(Hardcopy Internal Chain)

177341

WorkList Name : %1-092625

WorkList ID : 192106

Department : Wet-Chemistry

Date : 09-26-2025 08:04:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3226-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3226-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3226-09	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3226-10	PEST -GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3230-01	WALL-PROBE-BRICK-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-05	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-06	WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-07	WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-09	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-10	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-11	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-13	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-14	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-15	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3232-01	CONC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3233-01	0926-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO

Date/Time 09/26/25 15:10

Raw Sample Received by: SP CUDC

Raw Sample Relinquished by: RM SM

Date/Time 09/26/25

Raw Sample Received by: RM SM

Raw Sample Relinquished by: SP CUDC

SOP ID: M3541-ASE Extraction-15

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: EH

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 10/01/2025

Extraction Start Time : 10:40

Extraction End Date : 10/01/2025

Extraction End Time : 13:55

Concentration By: EH

Supervisor By : ritesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP24596
Spike Sol 1	1.0ML	20 PPM	PP24583
N/A	N/A	20 PPM	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2641
Baked Na2SO4	N/A	EP2646
Methylene Chloride	N/A	E3973
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

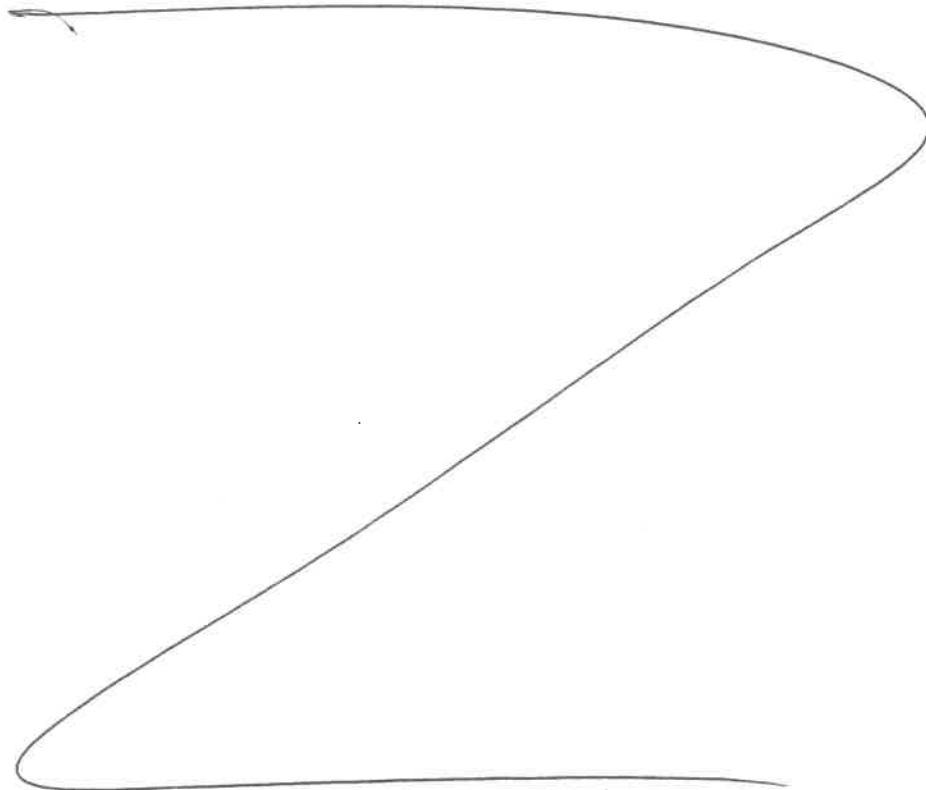
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/01/25 14:00	R3 (Ext-140)	Y-P-pestip43
	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-15

Concentration Date: 10/01/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169938BL	PB169938BL	TPH GC	30.02	N/A	ritesh	Evelyn	1			U4-1
PB169938BS	PB169938BS	TPH GC	30.01	N/A	ritesh	Evelyn	1			2
Q3215-01	WASTE	TPH GC	30.04	N/A	ritesh	Evelyn	1			3
Q3216-01	WASTE	TPH GC	30.09	N/A	ritesh	Evelyn	1			4
Q3216-01MS	WASTEMS	TPH GC	30.08	N/A	ritesh	Evelyn	1			5
Q3216-01MS D	WASTEMSD	TPH GC	30.03	N/A	ritesh	Evelyn	1			6
Q3238-01	RCA	TPH GC	30.05	N/A	ritesh	Evelyn	1	B	Concrete	U6-1



RJ
10/01

10:40
1938

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3215T WorkList ID : 192203 Department : Extraction Date : 10-01-2025 08:54:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3215-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	J41	09/25/2025	8015D
Q3216-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	J41	09/25/2025	8015D
Q3238-01	RCA	Solid	TPH GC	Cool 4 deg C	YANN01	D31	09/18/2025	8015D

Date/Time 10/01/25 10:35
Raw Sample Received by: RJ LEE-LOW CP SM
Raw Sample Relinquished by: CP SM

Date/Time 10/01/25 10:50
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ LEE-LOW



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax (908) 789-8922

www.chemtech.net

Chemtech Project Number

COC Number

256-258 10th Ave
Paterson NJ

Q 3216

CLIENT INFORMATION

Report to be sent to:

COMPANY:

ADDRESS:

CITY:

ATTENTION:

PHONE:

FAX:

PROJECT INFORMATION

PROJECT NAME:

PROJECT #:

PROJECT MANAGER:

E-MAIL:

PHONE:

BILLING INFORMATION

BILL TO:

ADDRESS:

CITY:

ATTENTION:

PHONE:

RO#

STATE:

ZIP:

DATA TURNAROUND INFORMATION

FAX (RUSH):

HARDCOPY (DATA PACKAGE):

EDD:

TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DAYS*

DAYS*

DAYS*

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only)

☐ Level 2 (Results + QC)

☐ Level 3 (Results + QC + Raw Data)

☐ EDD FORMAT

☐ Level 4 (QC + Full Raw Data)

☐ NJ Reduced ☐ US EPA CLP

☐ NYS ASP A ☐ NYS ASP B

☐ Other

ANALYSIS

PRESERVATIVES

COMMENTS

Specify Preservatives
A-HCI B-HNOS C-H2SO4 D-NH4Cl E-ICE F-OTHER

CHEMTECH SAMPLE ID

PROJECT SAMPLE IDENTIFICATION

SAMPLE MATRIX

SAMPLE TYPE

DATE

TIME

of Bottles

1

2

3

4

5

6

7

8

9

10

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

RELINQUISHED BY SAMPLER

DATE/TIME

RELINQUISHED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

RECEIVED BY

DATE/TIME

Comments:

Conditions of bottles or cobs at receipt:

☐ COMPLAINT ☐ NONCOMPLAINT ☐ COOLER TEMP

☐ Hand Delivered ☐ Other:

☐ CHEMTECH ☐ Picked Up

Page _____ of _____

CLIENT: ☐ Hand Delivered ☐ Other:

CHEMTECH: ☐ Picked Up

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

10/25/08

10/25/08

10/25/08

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3216 SCIA01

Order Date : 9/26/2025 8:55:00 AM

Project Mgr :

Client Name : Sciacca General Contractor

Project Name : 256-258 6TH AVE PATERS

Report Type : Results Only

Client Contact : Rosanne Scirica

Receive DateTime : 9/25/2025 5:30:00 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
Q3216-02	VOC	Solid	09/25/2025	08:15	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : af

Date / Time : 9/26/25 1045

Received By : [Signature]

Date / Time : 09/26/25

11:21

Storage Area : VOA Refridgerator Room