

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: Q3495	OrderDate: 10/30/2025 10:45:41 AM
Client: Remington & Vernick Engineers	Project: Maclearie Park
Contact: Kyle Carlson	Location: D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3495-02	SB-1025-2	SOIL	PCB	8082A	10/27/25	10/31/25	10/31/25	10/29/25
			EPH_NF	NJEPH		10/31/25	10/31/25	
Q3495-03	TW-1025-1	WATER	PCB	8082A	10/27/25	10/31/25	10/31/25	10/29/25



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: REMI02
Lab Code: ACE SDG No.: Q3495
Run Number: FC103125AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB170341BL	95	92		0
PB170341BS	92	88		0
PB170341BSD	84	81		0
DRILL-CUTTINGSMS	68	61		0
DRILL-CUTTINGSMSD	68	61		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: REMI02
Lab Code: ACE SDG No.: Q3495
Run Number: FE103125AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)	TOT OUT
SB-1025-2	74	70	0

QC LIMITS

1-chlorooctadecane (SURR) (40-140)
ortho-Terphenyl (SURR) (40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOIL EPH SURROGATE RECOVERY

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

D Surrogate diluted out

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Remington & Vernick Engineers</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3495</u>
Sample No :	<u>Q3496-01MS</u>	Datafile:	<u>FC070110.D</u>
		Client ID :	<u>DRILL-CUTTINGSMS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	34.8	6.61	45.0	110		(40-140)
Aliphatic C9-C28	116.1	1.96	73.8	62		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	3.9	0.0052	1.8555	47		(40-140)
n-Decane (C10)	3.9	0.0119	4.5821	117		(40-140)
Naphthalene (C11.7)	3.9	0.0122	2.5982	66		(40-140)
n-Dodecane (C12)	3.9	0.0087	2.4753	63		(40-140)
2-methylnaphthalene (C12.89)	3.9	0.0095	2.5609	65		(40-140)
n-Tetradecane (C14)	3.9	0.0120	2.6439	67		(40-140)
n-Hexadecane (C16)	3.9	0.0122	2.6209	67		(40-140)
n-Octadecane (C18)	3.9	0.0099	2.6055	67		(40-140)
n-Eicosane (C20)	3.9	0.0104	2.7282	70		(40-140)
n-Heneicosane (C21)	3.9	0.0099	2.7602	71		(40-140)
n-Docosane (C22)	3.9	0.0220	2.7239	69		(40-140)
n-Tetracosane (C24)	7.7	0.0785	5.3655	69		(40-140)
n-Hexacosane (C26)	3.9	0.0350	2.6529	67		(40-140)
n-Octacosane (C28)	3.9	0.0545	2.7121	68		(40-140)
n-Tricontane (C30)	3.9	0.0608	2.6099	65		(40-140)
n-Dotriacontane (C32)	3.9	0.0860	2.7771	69		(40-140)
n-Tetratriacontane (C34)	3.9	0.1503	3.3946	83		(40-140)
n-Hexatriacontane (C36)	3.9	0.3048	3.8750	92		(40-140)
n-Octatriacontane (C38)	3.9	0.3442	4.2578	100		(40-140)
n-Tetracontane (C40)	3.9	0.1141	4.4140	110		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Remington & Vernick Engineers</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3495</u>
Sample No :	<u>Q3496-01MSD</u>	Datafile:	<u>FC070111.D</u>
		Client ID :	<u>DRILL-CUTTINGSMSD</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aliphatic C28-C40	34.8	6.61	44.9	110		0 (40-140) 50
Aliphatic C9-C28	115.9	1.96	73.0	61		1 (40-140) 50

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
n-Nonane (C9)	3.9	0.0052	1.8237	47		0 (40-140) 50
n-Decane (C10)	3.9	0.0119	4.5035	115		1.72 (40-140) 50
Naphthalene (C11.7)	3.9	0.0122	2.5636	65		1.53 (40-140) 50
n-Dodecane (C12)	3.9	0.0087	2.4402	62		1.6 (40-140) 50
2-methylnaphthalene (C12.89)	3.9	0.0095	2.5344	65		0 (40-140) 50
n-Tetradecane (C14)	3.9	0.0120	2.6184	67		0 (40-140) 50
n-Hexadecane (C16)	3.9	0.0122	2.6019	66		1.5 (40-140) 50
n-Octadecane (C18)	3.9	0.0099	2.5841	66		1.5 (40-140) 50
n-Eicosane (C20)	3.9	0.0104	2.7025	69		1.44 (40-140) 50
n-Heneicosane (C21)	3.9	0.0099	2.7322	70		1.42 (40-140) 50
n-Docosane (C22)	3.9	0.0220	2.6877	68		1.46 (40-140) 50
n-Tetracosane (C24)	7.7	0.0785	5.2836	68		1.46 (40-140) 50
n-Hexacosane (C26)	3.9	0.0350	2.6077	66		1.5 (40-140) 50
n-Octacosane (C28)	3.9	0.0545	2.6650	67		1.48 (40-140) 50
n-Tricontane (C30)	3.9	0.0608	2.5695	64		1.55 (40-140) 50
n-Dotriacontane (C32)	3.9	0.0860	2.7379	68		1.46 (40-140) 50
n-Tetratriacontane (C34)	3.9	0.1503	3.3140	81		2.44 (40-140) 50
n-Hexatriacontane (C36)	3.9	0.3048	3.9471	93		1.08 (40-140) 50
n-Octatriacontane (C38)	3.9	0.3442	4.7866	114		13.08 (40-140) 50
n-Tetracontane (C40)	3.9	0.1141	4.6540	116		5.31 (40-140) 50

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Remington & Vernick Engineers</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3495</u>
Sample No :	<u>PB170341BS</u>	Datafile:	<u>FC070106.D</u>
		Client ID :	<u>PB170341BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	30.0	33.0	110		(40-140)
Aliphatic C9-C28	99.9	79.8	80		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	2.61071	79		(40-140)
n-Decane (C10)	3.3	2.75185	83		(40-140)
Naphthalene (C11.7)	3.3	2.97523	90		(40-140)
n-Dodecane (C12)	3.3	2.88421	87		(40-140)
2-methylnaphthalene (C12.89)	3.3	2.90205	88		(40-140)
n-Tetradecane (C14)	3.3	3.02359	92		(40-140)
n-Hexadecane (C16)	3.3	3.02879	92		(40-140)
n-Octadecane (C18)	3.3	3.01072	91		(40-140)
n-Eicosane (C20)	3.3	3.20602	97		(40-140)
n-Heneicosane (C21)	3.3	3.16002	96		(40-140)
n-Docosane (C22)	3.3	3.11002	94		(40-140)
n-Tetracosane (C24)	6.7	5.76604	86		(40-140)
n-Hexacosane (C26)	3.3	2.97918	90		(40-140)
n-Octacosane (C28)	3.3	2.97640	90		(40-140)
n-Tricontane (C30)	3.3	3.06872	93		(40-140)
n-Dotriacontane (C32)	3.3	3.24459	98		(40-140)
n-Tetratriacontane (C34)	3.3	3.69366	112		(40-140)
n-Hexatriacontane (C36)	3.3	4.06028	123		(40-140)
n-Octatriacontane (C38)	3.3	4.47048	135		(40-140)
n-Tetracontane (C40)	3.3	4.60990	140		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Remington & Vernick Engineers
Lab Code: ACE **SDG No:** Q3495
Sample No : PB170341BSD **Datafile:** FC070107.D **Client ID :** PB170341BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aliphatic C28-C40	30.0	30.3	101		8.4 (40-140) 25
Aliphatic C9-C28	99.9	73.8	74		7.7 (40-140) 25

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS(%) QC Limit Of RPD
n-Nonane (C9)	3.3	2.47327	75		5.19 (40-140) 25
n-Decane (C10)	3.3	2.58766	78		6.21 (40-140) 25
Naphthalene (C11.7)	3.3	2.76632	84		6.9 (40-140) 25
n-Dodecane (C12)	3.3	2.69986	82		5.92 (40-140) 25
2-methylnaphthalene (C12.89)	3.3	2.69341	82		7.06 (40-140) 25
n-Tetradecane (C14)	3.3	2.81403	85		7.91 (40-140) 25
n-Hexadecane (C16)	3.3	2.79930	85		7.91 (40-140) 25
n-Octadecane (C18)	3.3	2.77072	84		8 (40-140) 25
n-Eicosane (C20)	3.3	2.93552	89		8.6 (40-140) 25
n-Heneicosane (C21)	3.3	2.89083	88		8.7 (40-140) 25
n-Docosane (C22)	3.3	2.84104	86		8.89 (40-140) 25
n-Tetracosane (C24)	6.7	5.32657	80		7.23 (40-140) 25
n-Hexacosane (C26)	3.3	2.72483	83		8.09 (40-140) 25
n-Octacosane (C28)	3.3	2.69894	82		9.3 (40-140) 25
n-Tricontane (C30)	3.3	2.74223	83		11.36 (40-140) 25
n-Dotriacontane (C32)	3.3	2.86395	87		11.89 (40-140) 25
n-Tetratriacontane (C34)	3.3	3.29541	100		11.32 (40-140) 25
n-Hexatriacontane (C36)	3.3	3.67601	111		10.26 (40-140) 25
n-Octatriacontane (C38)	3.3	4.11750	125		7.69 (40-140) 25
n-Tetracontane (C40)	3.3	4.27193	129		8.18 (40-140) 25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB170341BL

Lab Name: Alliance

Contract: REMI02

Lab Code: ACE

SDG NO.: Q3495

Instrument ID: FID_C

Lab Sample ID: PB170341BL

Matrix: (soil/water) Solid

Date Extracted: 10/31/2025 9:05:00

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB170341BS	PB170341BS
PB170341BSD	PB170341BSD
SB-1025-2	Q3495-02
DRILL-CUTTINGSMS	Q3496-01MS
DRILL-CUTTINGSMSD	Q3496-01MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	10/27/25
Project:	Maclearie Park	Date Received:	10/29/25
Client Sample ID:	SB-1025-2	SDG No.:	Q3495
Lab Sample ID:	Q3495-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.1
Sample Wt/Vol:	30.06 g	Test:	EPH_NF
Prep Method :	Final Vol: 2000 uL Prep Date : 10/31/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	4.37		1	1.57	2.66	mg/kg	FE056612.D	10/31/25 15:59	PB170341
Aliphatic C9-C28	Aliphatic C9-C28	1.21	U	1	1.21	5.32	mg/kg	FE056612.D	10/31/25 15:59	PB170341
Total AliphaticEPH	Total AliphaticEPH	4.37	J		2.78	7.98	mg/kg			
Total EPH	Total EPH	4.37	J		2.78	7.98	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	10/27/25
Project:	Maclearie Park	Date Received:	10/29/25
Client Sample ID:	SB-1025-2	SDG No.:	Q3495
Lab Sample ID:	Q3495-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.1
Sample Wt/Vol:	30.06 g	Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF
	Prep Date	10/31/25	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	1.21	U	1	1.21	5.32	mg/kg	10/31/25	PB170341
Aliphatic C28-C40	Aliphatic C28-C40	4.37		1	1.57	2.66	mg/kg	10/31/25	PB170341
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	37.1			40 - 140	74%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	35.3			40 - 140	70%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3495-02	Acq On:	31 Oct 2025 15:59
Client Sample ID:	SB-1025-2	Operator:	YP\AJ
Data file:	FE056612.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.227	6.853	124407	0.727	300	ug/ml
Aliphatic C12-C16	6.854	10.303	999881	5.594	200	ug/ml
Aliphatic C16-C21	10.304	13.679	911011	4.885	300	ug/ml
Aliphatic C21-C28	13.680	17.352	1318375	6.839	400	ug/ml
Aliphatic C28-C40	17.353	22.305	7857893	49.323	600	ug/ml
Aliphatic EPH	3.227	22.305	11211567	67.367		ug/ml
ortho-Terphenyl (SURR)	11.973	11.973	7363199	35.25		ug/ml
1-chlorooctadecane (SURR)	13.411	13.411	5973259	37.07		ug/ml
Aliphatic C9-C28	3.227	17.352	3353674	18.045	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
 Data File : FE056612.D
 Signal(s) : FID1B.ch
 Acq On : 31 Oct 2025 15:59
 Operator : YP\AJ
 Sample : Q3495-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SB-1025-2

Integration File: autoint1.e
 Quant Time: Oct 31 23:15:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.973	7363199	35.245 ug/ml
Spiked Amount 50.000		Recovery =	70.49%
12) S 1-chlorooctadecane (S...	13.411	5973259	37.074 ug/ml
Spiked Amount 50.000		Recovery =	74.15%

Target Compounds

(f)=RT Delta > 1/2 Window

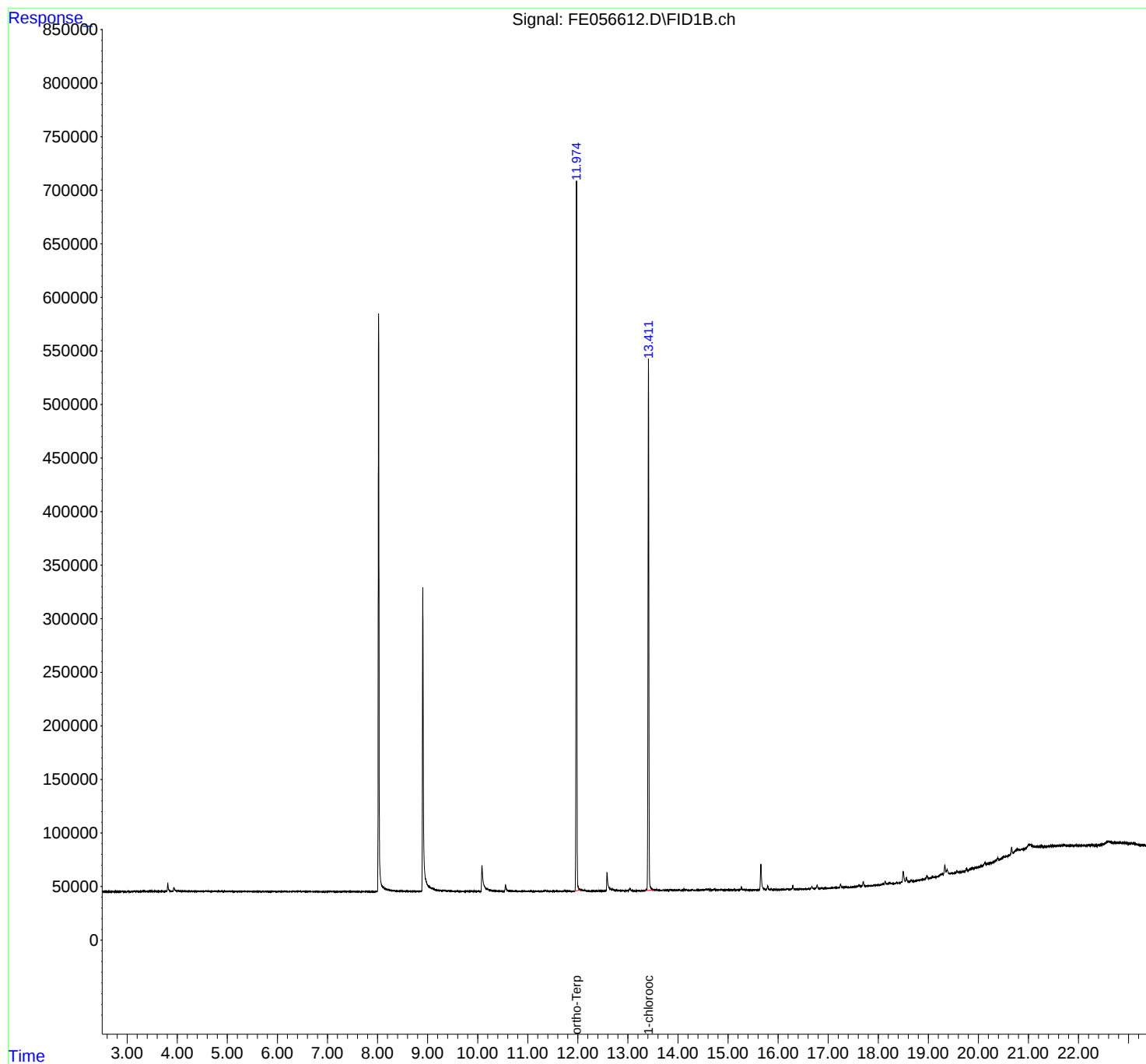
(m)=manual int.

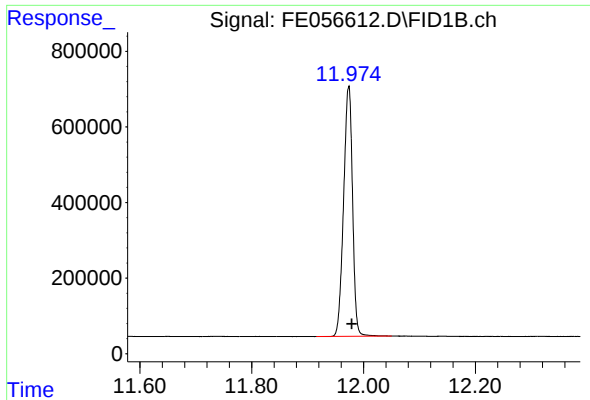
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
Data File : FE056612.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2025 15:59
Operator : YP\AJ
Sample : Q3495-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SB-1025-2

Integration File: autoint1.e
Quant Time: Oct 31 23:15:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

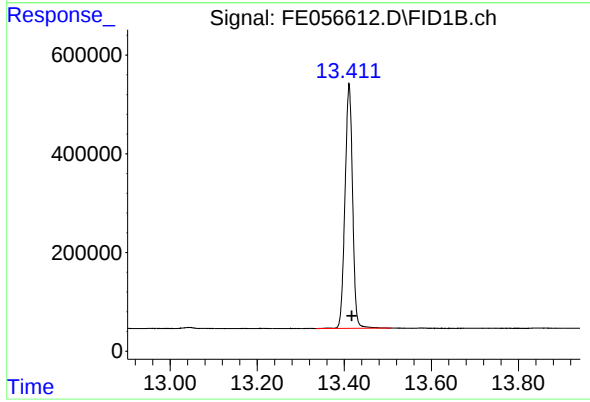




#9 ortho-Terphenyl (SURR)

R.T.: 11.973 min
Delta R.T.: -0.006 min
Response: 7363199
Conc: 35.25 ug/ml

Instrument :
FID_E
ClientSampleId :
SB-1025-2



#12 1-chlorooctadecane (SURR)

R.T.: 13.411 min
Delta R.T.: -0.006 min
Response: 5973259
Conc: 37.07 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
 Data File : FE056612.D
 Signal(s) : FID1B.ch
 Acq On : 31 Oct 2025 15:59
 Sample : Q3495-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	5.124	5.110	5.138	PV	30	337	0.00%	0.001%
2	5.165	5.138	5.182	PV	85	1179	0.02%	0.005%
3	5.192	5.182	5.208	VV	82	898	0.01%	0.004%
4	5.249	5.208	5.275	PV	205	4362	0.06%	0.018%
5	5.288	5.275	5.309	VV	143	1914	0.03%	0.008%
6	5.331	5.309	5.345	VV	143	2094	0.03%	0.008%
7	5.359	5.345	5.377	PV	120	1358	0.02%	0.005%
8	5.396	5.377	5.449	VV	137	3501	0.05%	0.014%
9	5.459	5.449	5.506	VV	113	2314	0.03%	0.009%
10	5.522	5.506	5.547	VV	168	1480	0.02%	0.006%
11	5.559	5.547	5.588	VV	131	2196	0.03%	0.009%
12	5.609	5.588	5.698	VV	119	3996	0.05%	0.016%
13	5.719	5.698	5.758	VV	396	5334	0.07%	0.022%
14	5.766	5.758	5.784	VV	105	744	0.01%	0.003%
15	5.802	5.784	5.958	PV	73	7206	0.10%	0.029%
16	6.030	5.958	6.078	VV	155	6191	0.08%	0.025%
17	6.122	6.078	6.171	VV	155	7479	0.10%	0.030%
18	6.187	6.171	6.241	VV	111	3809	0.05%	0.015%
19	6.339	6.241	6.437	VV	309	23223	0.31%	0.094%
20	6.461	6.437	6.508	VV	472	11916	0.16%	0.048%
21	6.538	6.508	6.603	VV	257	11685	0.16%	0.047%
22	6.624	6.603	6.638	VV	206	4063	0.05%	0.016%
23	6.656	6.638	6.738	VV	275	9549	0.13%	0.039%
24	6.751	6.738	6.882	VV	167	7579	0.10%	0.031%
25	6.900	6.882	6.922	VV	129	1281	0.02%	0.005%
26	7.022	6.922	7.189	PV	198	17028	0.23%	0.069%
27	7.331	7.189	7.350	PV	198	10510	0.14%	0.042%
28	7.368	7.350	7.392	VV	183	3116	0.04%	0.013%
29	7.433	7.392	7.474	VV	165	6163	0.08%	0.025%
30	7.485	7.474	7.504	VV	173	2498	0.03%	0.010%
31	7.542	7.504	7.571	VV	181	4989	0.07%	0.020%

					rteres			
32	7.600	7.571	7.638	VV	207	3747	0.05%	0.015%
33	7.645	7.638	7.681	VV	140	1626	0.02%	0.007%
34	7.698	7.681	7.746	VV	76	2330	0.03%	0.009%
35	7.764	7.746	7.788	VV	62	1086	0.01%	0.004%
36	7.829	7.788	7.890	PV	90	2416	0.03%	0.010%
37	7.914	7.890	7.936	VV	69	1124	0.02%	0.005%
38	8.492	8.454	8.544	VV	557	27487	0.37%	0.111%
39	8.586	8.544	8.617	VV	618	21233	0.28%	0.086%
40	8.634	8.617	8.672	VV	488	11669	0.16%	0.047%
41	8.726	8.672	8.788	VV	416	18591	0.25%	0.075%
42	9.331	9.311	9.391	VV	1010	36995	0.50%	0.150%
43	9.416	9.391	9.551	VV	740	44073	0.59%	0.178%
44	9.604	9.551	9.644	VV	545	17595	0.24%	0.071%
45	9.658	9.644	9.694	VV	243	5847	0.08%	0.024%
46	9.707	9.694	9.740	VV	178	3851	0.05%	0.016%
47	9.834	9.740	9.854	VV	398	14380	0.19%	0.058%
48	9.890	9.854	10.014	VV	374	23976	0.32%	0.097%
49	10.038	10.014	10.054	VV	393	5266	0.07%	0.021%
50	10.088	10.054	10.513	VV	23237	711004	9.53%	2.875%
51	10.558	10.513	10.643	VV	6175	116055	1.55%	0.469%
52	10.665	10.643	10.714	VV	536	17792	0.24%	0.072%
53	10.727	10.714	10.808	VV	410	14971	0.20%	0.061%
54	10.837	10.808	10.894	VV	273	11606	0.16%	0.047%
55	10.915	10.894	10.983	VV	417	15199	0.20%	0.061%
56	11.014	10.983	11.038	VV	280	7124	0.10%	0.029%
57	11.055	11.038	11.123	VV	282	9564	0.13%	0.039%
58	11.194	11.123	11.239	VV	256	11506	0.15%	0.047%
59	11.351	11.239	11.458	VV	1034	42338	0.57%	0.171%
60	11.470	11.458	11.519	VV	225	5089	0.07%	0.021%
61	11.579	11.519	11.611	VV	573	12715	0.17%	0.051%
62	11.649	11.611	11.684	VV	425	9277	0.12%	0.038%
63	11.738	11.684	11.781	VV	511	13861	0.19%	0.056%
64	11.815	11.781	11.832	VV	345	5632	0.08%	0.023%
65	11.847	11.832	11.877	VV	297	3800	0.05%	0.015%
66	11.894	11.877	11.918	PV	64	1069	0.01%	0.004%
67	11.973	11.918	12.122	VV	658148	7463426	100.00%	30.176%
68	12.141	12.122	12.274	VV	969	32388	0.43%	0.131%
69	12.315	12.274	12.344	VV	335	8737	0.12%	0.035%
70	12.375	12.344	12.392	VV	204	4216	0.06%	0.017%
71	12.421	12.392	12.458	VV	547	10618	0.14%	0.043%
72	12.477	12.458	12.508	VV	208	3101	0.04%	0.013%
73	12.529	12.508	12.554	VV	404	5891	0.08%	0.024%
74	12.585	12.554	12.668	VV	16528	328279	4.40%	1.327%
75	12.686	12.668	12.868	VV	1884	96385	1.29%	0.390%
76	12.892	12.868	12.925	VV	706	13861	0.19%	0.056%
77	12.959	12.925	13.011	VV	580	16318	0.22%	0.066%
78	13.043	13.011	13.154	VV	2326	50654	0.68%	0.205%
79	13.172	13.154	13.194	VV	278	4152	0.06%	0.017%

80	13.215	13.194	13.256	VV	rteres 294	5710	0.08%	0.023%
81	13.411	13.256	13.556	VV	496332	6057853	81.17%	24.493%
82	13.578	13.556	13.654	VV	1044	33103	0.44%	0.134%
83	13.700	13.654	13.813	VV	642	45811	0.61%	0.185%
84	13.846	13.813	13.947	VV	816	46442	0.62%	0.188%
85	14.020	13.947	14.071	VV	606	34547	0.46%	0.140%
86	14.120	14.071	14.142	VV	1204	26331	0.35%	0.106%
87	14.163	14.142	14.242	VV	940	26010	0.35%	0.105%
88	14.291	14.242	14.331	VV	966	22653	0.30%	0.092%
89	14.397	14.331	14.438	VV	509	24687	0.33%	0.100%
90	14.474	14.438	14.510	VV	425	17028	0.23%	0.069%
91	14.562	14.510	14.582	VV	1454	32599	0.44%	0.132%
92	14.603	14.582	14.700	VV	1530	45822	0.61%	0.185%
93	14.727	14.700	14.808	VV	1650	34734	0.47%	0.140%
94	14.869	14.808	14.988	VV	713	43628	0.58%	0.176%
95	15.023	14.988	15.041	VV	342	10216	0.14%	0.041%
96	15.072	15.041	15.094	VV	354	9558	0.13%	0.039%
97	15.120	15.094	15.211	VV	595	18583	0.25%	0.075%
98	15.269	15.211	15.300	VV	2696	51621	0.69%	0.209%
99	15.320	15.300	15.421	VV	658	15247	0.20%	0.062%
100	15.469	15.421	15.550	PV	230	6019	0.08%	0.024%
101	15.656	15.550	15.764	PV	23776	427664	5.73%	1.729%
102	15.791	15.764	15.837	VV	3648	60674	0.81%	0.245%
103	15.865	15.837	15.901	VV	1083	18614	0.25%	0.075%
104	15.926	15.901	15.958	VV	190	3977	0.05%	0.016%
105	15.980	15.958	16.011	VV	149	2154	0.03%	0.009%
106	16.115	16.011	16.133	PV	315	11225	0.15%	0.045%
107	16.175	16.133	16.253	VV	792	21056	0.28%	0.085%
108	16.294	16.253	16.396	VV	3372	53714	0.72%	0.217%
109	16.433	16.396	16.458	PV	165	2741	0.04%	0.011%
110	16.604	16.458	16.627	VV	195	8931	0.12%	0.036%
111	16.673	16.627	16.718	VV	1939	38150	0.51%	0.154%
112	16.779	16.718	16.833	VV	3415	58217	0.78%	0.235%
113	16.864	16.833	16.907	VV	456	9189	0.12%	0.037%
114	16.979	16.907	17.031	PV	164	7648	0.10%	0.031%
115	17.080	17.031	17.106	PV	341	9633	0.13%	0.039%
116	17.144	17.106	17.174	VV	283	8013	0.11%	0.032%
117	17.248	17.174	17.277	VV	3293	48590	0.65%	0.196%
118	17.297	17.277	17.381	VV	811	16649	0.22%	0.067%
119	17.537	17.381	17.564	PV	199	5249	0.07%	0.021%
120	17.619	17.564	17.665	VV	1242	32843	0.44%	0.133%
121	17.700	17.665	17.758	VV	4338	68199	0.91%	0.276%
122	17.796	17.758	17.831	PV	449	9781	0.13%	0.040%
123	17.987	17.831	18.004	VV	186	8013	0.11%	0.032%
124	18.138	18.004	18.171	PV	3160	63636	0.85%	0.257%
125	18.231	18.171	18.287	VV	1124	33122	0.44%	0.134%
126	18.370	18.287	18.391	VV	675	11465	0.15%	0.046%

					rteres			
127	18.415	18.391	18.432	VV	270	4603	0.06%	0.019%
128	18.500	18.432	18.538	PV	10060	196512	2.63%	0.795%
129	18.562	18.538	18.611	VV	4174	74353	1.00%	0.301%
130	18.661	18.611	18.691	VV	792	14583	0.20%	0.059%
131	18.972	18.691	19.028	PV	3100	49262	0.66%	0.199%
132	19.087	19.028	19.111	PV	970	20919	0.28%	0.085%
133	19.276	19.111	19.294	VV	1753	81079	1.09%	0.328%
134	19.330	19.294	19.354	VV	9793	175623	2.35%	0.710%
135	19.376	19.354	19.425	VV	4877	116107	1.56%	0.469%
136	19.457	19.425	19.483	VV	839	23331	0.31%	0.094%
137	19.574	19.483	19.594	VV	1805	37534	0.50%	0.152%
138	19.614	19.594	19.640	VV	637	10271	0.14%	0.042%
139	19.760	19.640	19.793	PV	1985	40397	0.54%	0.163%
140	19.871	19.793	19.894	VV	1469	53845	0.72%	0.218%
141	19.945	19.894	19.964	VV	1366	40707	0.55%	0.165%
142	20.058	19.964	20.076	VV	1590	82371	1.10%	0.333%
143	20.132	20.076	20.158	VV	3749	121125	1.62%	0.490%
144	20.384	20.158	20.418	VV	5659	483190	6.47%	1.954%
145	20.505	20.418	20.526	VV	6081	308974	4.14%	1.249%
146	20.664	20.526	20.694	VV	12859	688657	9.23%	2.784%
147	20.777	20.694	20.838	VV	9704	765298	10.25%	3.094%
148	20.863	20.838	20.888	VV	9413	267936	3.59%	1.083%
149	21.030	20.888	21.138	VV	11547	1473845	19.75%	5.959%
150	21.168	21.138	21.228	VV	8376	438467	5.87%	1.773%
151	21.257	21.228	21.303	VV	8073	337366	4.52%	1.364%
152	21.472	21.303	21.554	VV	5837	898023	12.03%	3.631%
153	21.602	21.554	21.650	VV	4864	270865	3.63%	1.095%
154	21.702	21.650	21.774	VV	4367	282688	3.79%	1.143%
155	21.789	21.774	21.811	VV	2855	62059	0.83%	0.251%
156	21.838	21.811	21.888	VV	2437	104043	1.39%	0.421%
157	21.939	21.888	22.054	VV	1455	101552	1.36%	0.411%
					Sum of corrected areas:	24732853		

Aliphatic EPH 103025.M Sat Nov 01 00:36:41 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC100725AL

AreaCount

Parameter Range	FC069937.D	FC069938.D	FC069939.D	FC069940.D	FC069941.D	
Aliphatic C9-C12	43171011.000	21250743.000	8161064.000	4428028.000	2320985.000	
Aliphatic C12-C16	33016544.000	16243273.000	6102029.000	3325280.000	1725815.000	
Aliphatic C16-C21	48108317.000	24065038.000	8973438.000	4960785.000	2610241.000	
Aliphatic C21-C28	55364172.000	28241357.000	10328099.000	6018987.000	3530371.000	
Aliphatic C28-C40	59763237.000	30083253.000	11204955.000	6723680.000	3980409.000	
Aliphatic EPH	239423281.000	119883664.000	44769585.000	25456760.000	14167821.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	144785.1979998	4.813				
Aliphatic C12-C16	163782.335	4.458				
Aliphatic C16-C21	161945.5019996	5.485				
Aliphatic C21-C28	147142.3355	12.304				
Aliphatic C28-C40	107599.8326666	14.464				
Aliphatic EPH	137884.7282218	9.049				

Concentration

Parameter Range	FC069937.D	FC069938.D	FC069939.D	FC069940.D	FC069941.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC069937.D	FC069938.D	FC069939.D	FC069940.D	FC069941.D	
Aliphatic C9-C12	143903.370000	141671.620000	136017.733333	147600.933333	154732.333333	
Aliphatic C12-C16	165082.720000	162432.730000	152550.725000	166264.000000	172581.500000	
Aliphatic C16-C21	160361.056666	160433.586666	149557.300000	165359.500000	174016.066666	

Initial Calibration Report for SequenceID : FC100725AL

Aliphatic C21-C28	138410.430000	141206.785000	129101.237500	150474.675000	176518.550000	
Aliphatic C28-C40	99605.395000	100277.510000	93374.625000	112061.333333	132680.300000	
Aliphatic EPH	133012.933888	133204.071111	124359.958333	141426.444444	157420.233333	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069937.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 16:17
 Operator : YP/AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 07 09:27:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.657	17428523	107.789 ug/ml
Spiked Amount 50.000		Recovery =	215.58%
12) S 1-chlorooctadecane (S...	13.088	13491128	107.925 ug/ml
Spiked Amount 50.000		Recovery =	215.85%
Target Compounds			
1) T n-Nonane (C9)	3.388	13511792	104.492 ug/ml
2) T n-Decane (C10)	4.461	14269174	105.512 ug/ml
3) T A~Naphthalene (C11.7)	6.056	16109041	106.057 ug/ml
4) T n-Dodecane (C12)	6.485	15390045	107.242 ug/ml
5) T A~2-methylnaphthalene...	7.116	16083838	107.576 ug/ml
6) T n-Tetradecane (C14)	8.283	16089121	108.439 ug/ml
7) T n-Hexadecane (C16)	9.887	16927423	108.003 ug/ml
8) T n-Octadecane (C18)	11.334	16924222	107.107 ug/ml
10) T n-Eicosane (C20)	12.643	15851454	107.240 ug/ml
11) T n-Heneicosane (C21)	13.256	15332641	107.336 ug/ml
13) T n-Docosane (C22)	13.843	14972967	107.364 ug/ml
14) T n-Tetracosane (C24)	14.946	14292557	107.227 ug/ml
15) T n-Hexacosane (C26)	15.967	13453877	107.130 ug/ml
16) T n-Octacosane (C28)	16.919	12644771	107.096 ug/ml
17) T n-Tricontane (C30)	17.806	12335576	107.079 ug/ml
18) T n-Dotriacontane (C32)	18.639	11541380	106.981 ug/ml
19) T n-Tetratriacontane (C34)	19.422	10438103	106.669 ug/ml
20) T n-Hexatriacontane (C36)	20.162	9085745	105.941 ug/ml
21) T n-Octatriacontane (C38)	20.920	8347689	106.483 ug/ml
22) T n-Tetracontane (C40)	21.873	8014744	106.647 ug/ml

(f)=RT Delta > 1/2 Window

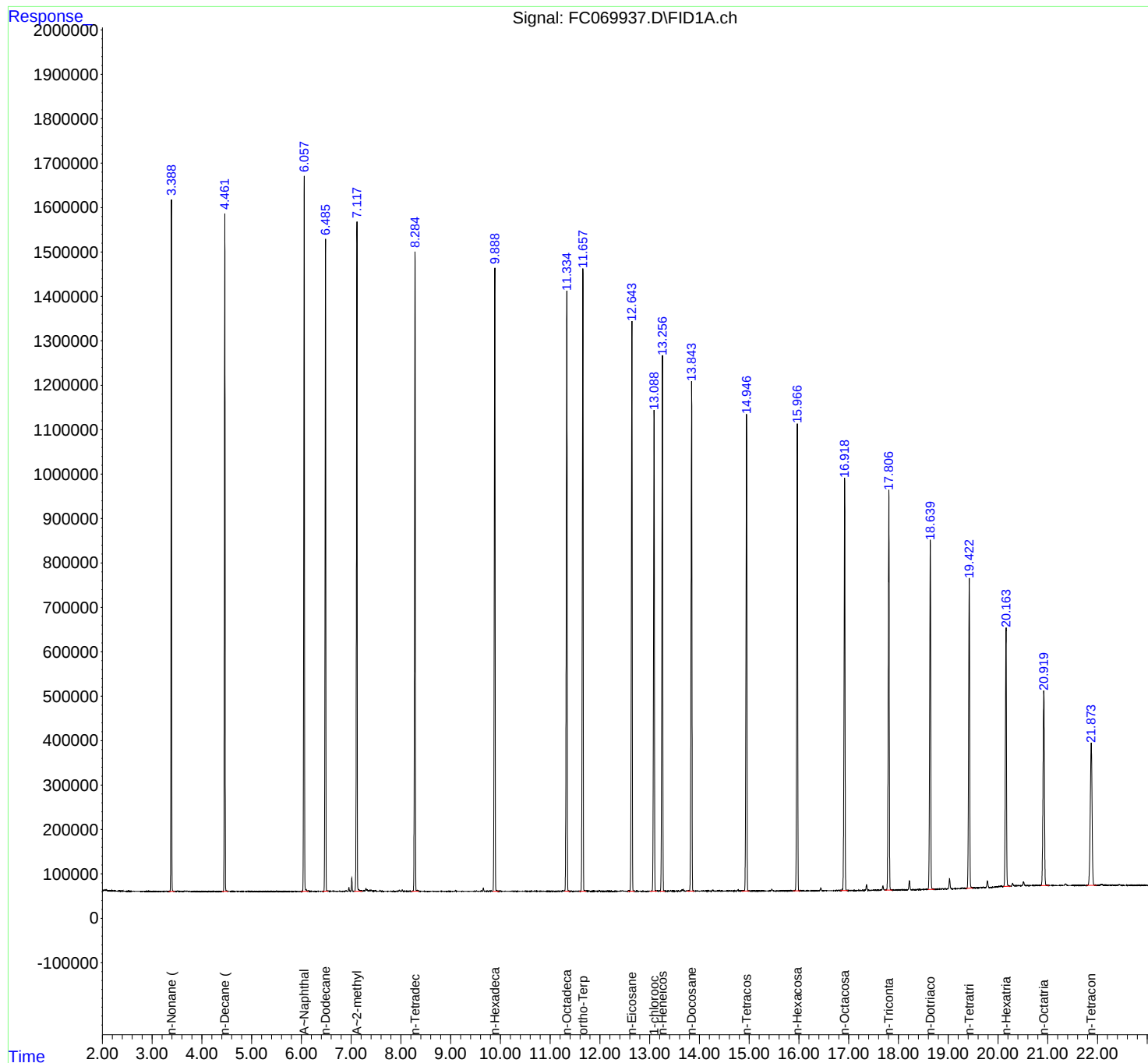
(m)=manual int.

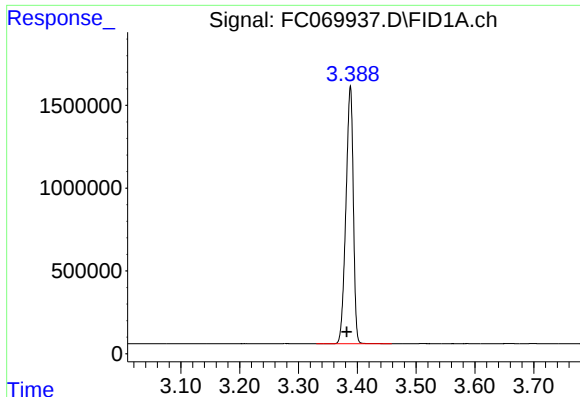
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069937.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 16:17
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 07 09:27:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

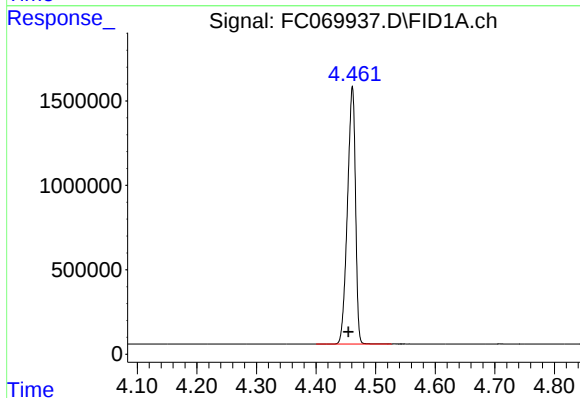




#1 n-Nonane (C9)

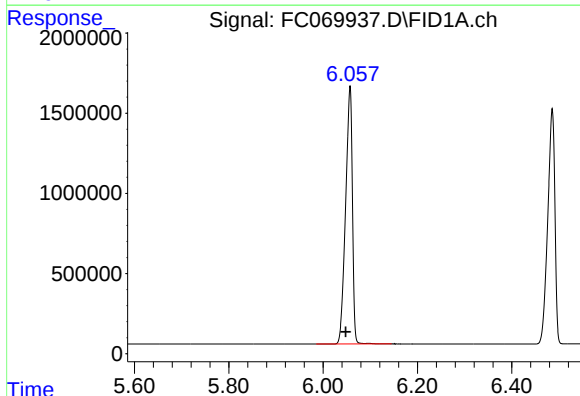
R.T.: 3.388 min
Delta R.T.: 0.006 min
Response: 13511792
Conc: 104.49 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



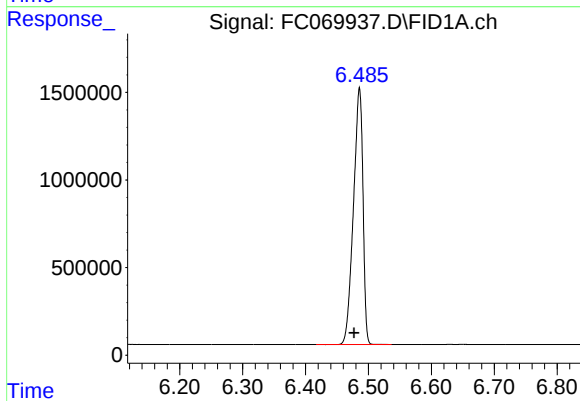
#2 n-Decane (C10)

R.T.: 4.461 min
Delta R.T.: 0.006 min
Response: 14269174
Conc: 105.51 ug/ml



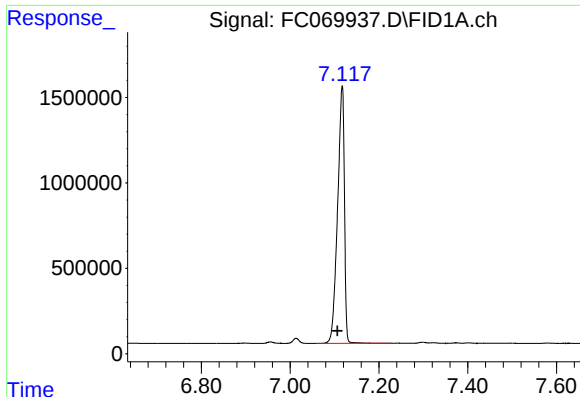
#3 A~Naphthalene (C11.7)

R.T.: 6.056 min
Delta R.T.: 0.008 min
Response: 16109041
Conc: 106.06 ug/ml



#4 n-Dodecane (C12)

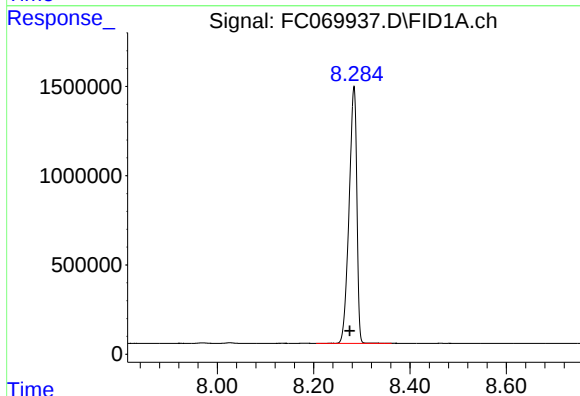
R.T.: 6.485 min
Delta R.T.: 0.008 min
Response: 15390045
Conc: 107.24 ug/ml



#5 A~2-methylnaphthalene (C12.89)

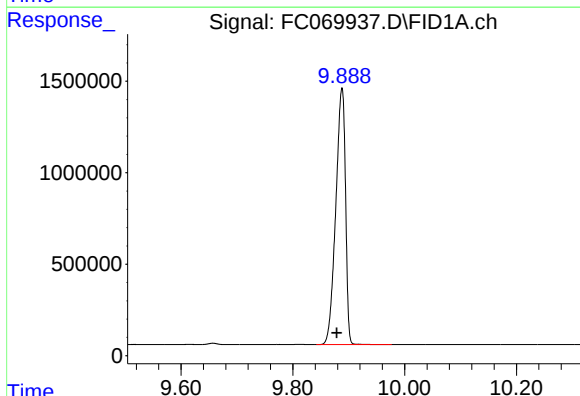
R.T.: 7.116 min
Delta R.T.: 0.010 min
Response: 16083838
Conc: 107.58 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



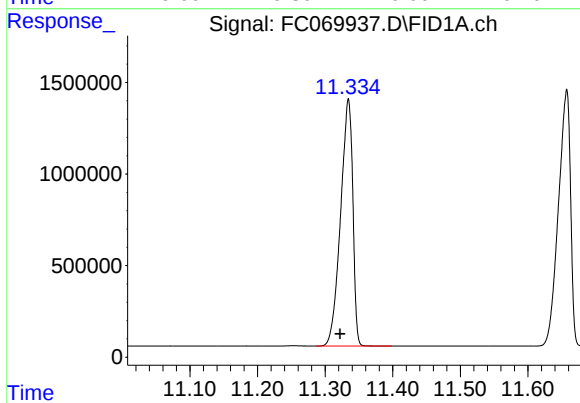
#6 n-Tetradecane (C14)

R.T.: 8.283 min
Delta R.T.: 0.008 min
Response: 16089121
Conc: 108.44 ug/ml



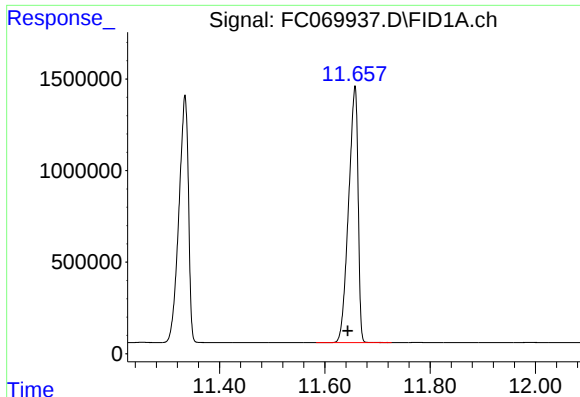
#7 n-Hexadecane (C16)

R.T.: 9.887 min
Delta R.T.: 0.009 min
Response: 16927423
Conc: 108.00 ug/ml



#8 n-Octadecane (C18)

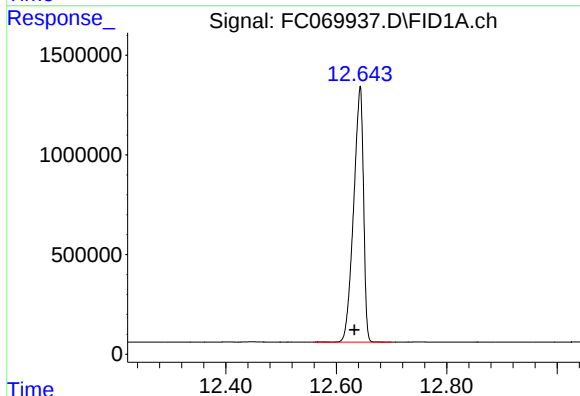
R.T.: 11.334 min
Delta R.T.: 0.012 min
Response: 16924222
Conc: 107.11 ug/ml



#9 ortho-Terphenyl (SURR)

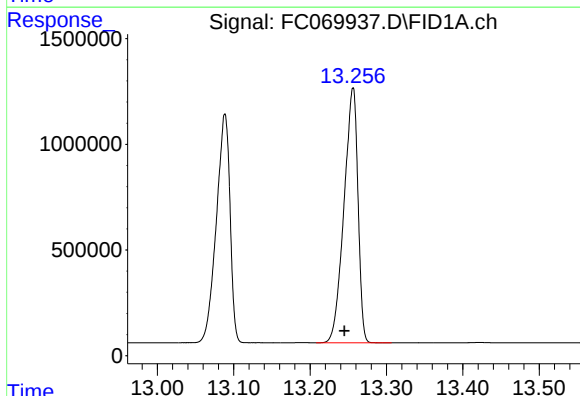
R.T.: 11.657 min
Delta R.T.: 0.013 min
Response: 17428523
Conc: 107.79 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



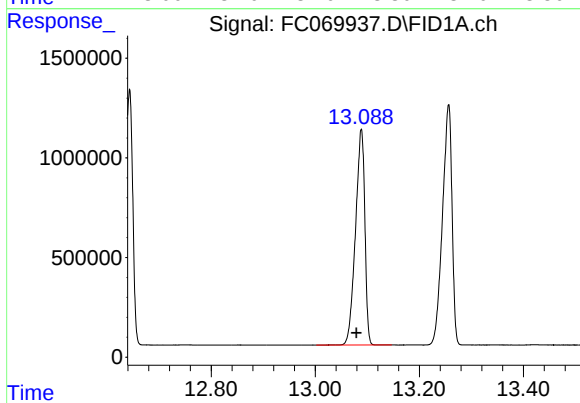
#10 n-Eicosane (C20)

R.T.: 12.643 min
Delta R.T.: 0.010 min
Response: 15851454
Conc: 107.24 ug/ml



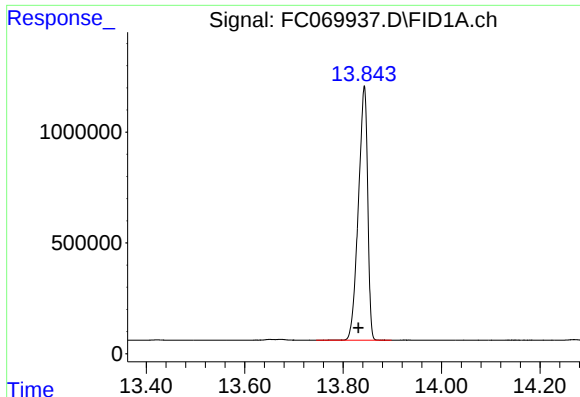
#11 n-Heneicosane (C21)

R.T.: 13.256 min
Delta R.T.: 0.011 min
Response: 15332641
Conc: 107.34 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.088 min
Delta R.T.: 0.009 min
Response: 13491128
Conc: 107.92 ug/ml



#13 n-Docosane (C22)

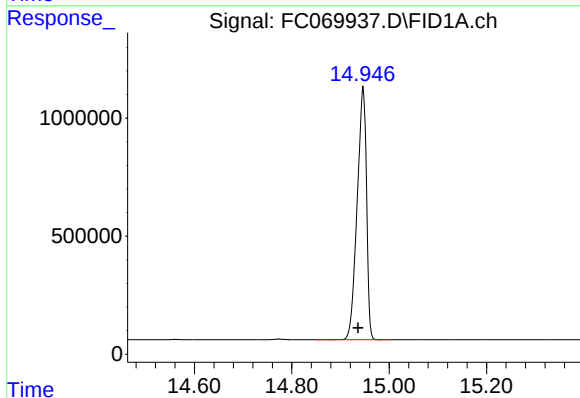
R.T.: 13.843 min
Delta R.T.: 0.012 min
Response: 14972967
Conc: 107.36 ug/ml

Instrument :

FID_C

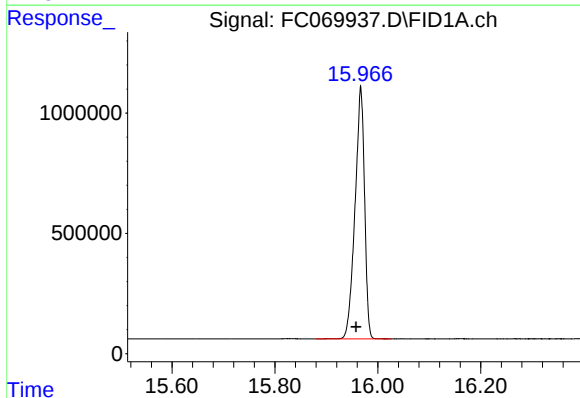
ClientSampleId :

100 PPM ALIPHATIC HC STD1



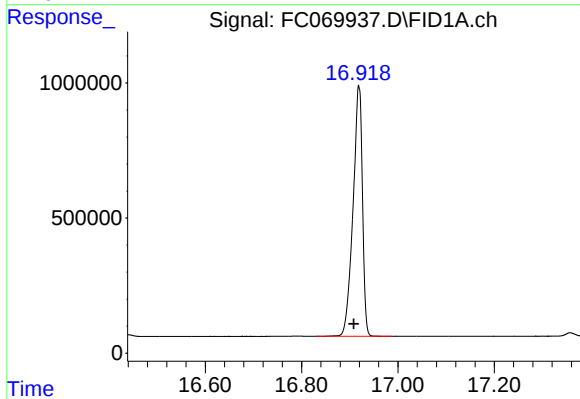
#14 n-Tetracosane (C24)

R.T.: 14.946 min
Delta R.T.: 0.010 min
Response: 14292557
Conc: 107.23 ug/ml



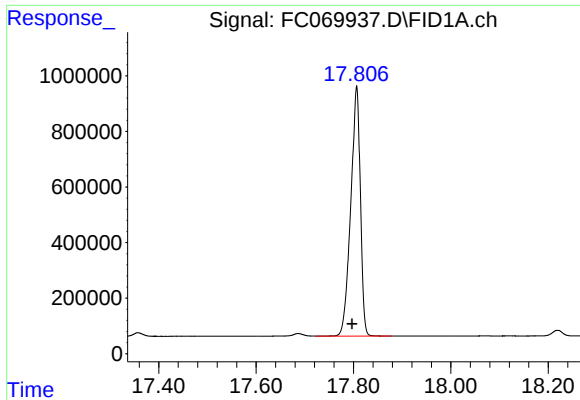
#15 n-Hexacosane (C26)

R.T.: 15.967 min
Delta R.T.: 0.009 min
Response: 13453877
Conc: 107.13 ug/ml



#16 n-Octacosane (C28)

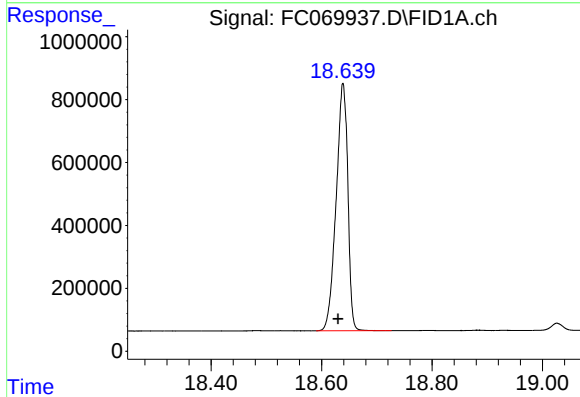
R.T.: 16.919 min
Delta R.T.: 0.011 min
Response: 12644771
Conc: 107.10 ug/ml



#17 n-Tricontane (C30)

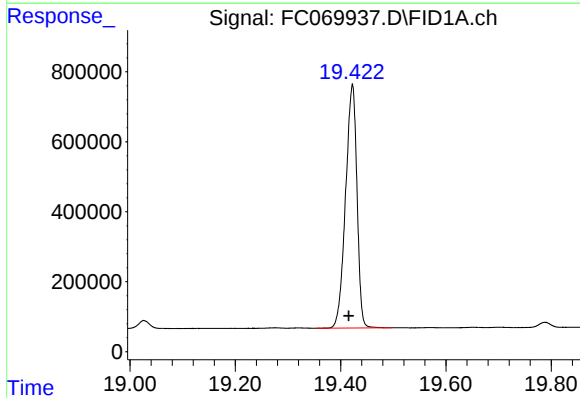
R.T.: 17.806 min
Delta R.T.: 0.009 min
Response: 12335576
Conc: 107.08 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



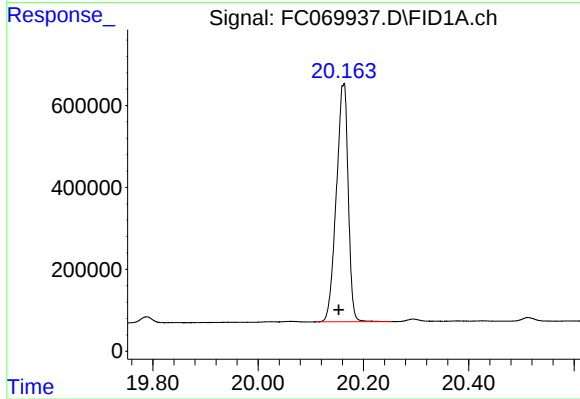
#18 n-Dotriacontane (C32)

R.T.: 18.639 min
Delta R.T.: 0.009 min
Response: 11541380
Conc: 106.98 ug/ml



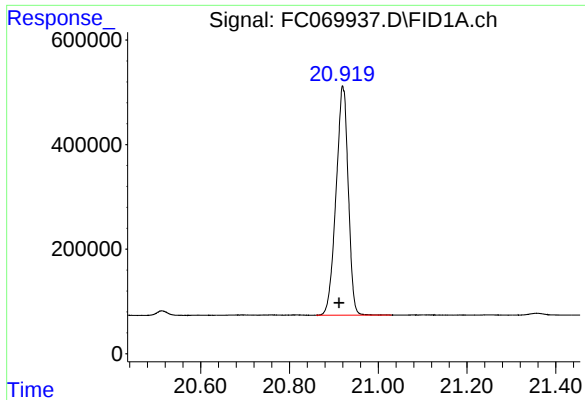
#19 n-Tetratriacontane (C34)

R.T.: 19.422 min
Delta R.T.: 0.007 min
Response: 10438103
Conc: 106.67 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.162 min
Delta R.T.: 0.008 min
Response: 9085745
Conc: 105.94 ug/ml



#21 n-Octatriacontane (C38)

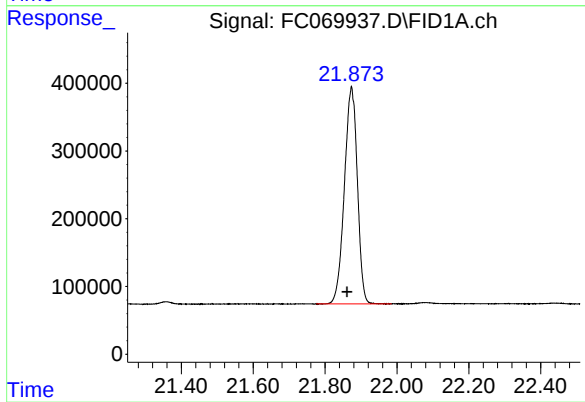
R.T.: 20.920 min
Delta R.T.: 0.009 min
Response: 8347689
Conc: 106.48 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.873 min
Delta R.T.: 0.012 min
Response: 8014744
Conc: 106.65 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069937.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 16:17
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.388	3.330	3.458	BB	1566610	13511792	77.53%	4.466%
2	4.461	4.400	4.527	BB	1518640	14269174	81.87%	4.717%
3	6.056	5.985	6.145	BB	1611621	16109041	92.43%	5.325%
4	6.485	6.417	6.537	BB	1464377	15390045	88.30%	5.087%
5	7.116	7.058	7.228	BV	1506266	16083838	92.28%	5.316%
6	8.283	8.205	8.362	BB	1437784	16089121	92.31%	5.318%
7	9.887	9.842	9.977	PB	1398162	16927423	97.12%	5.595%
8	11.334	11.287	11.398	BB	1347994	16924222	97.11%	5.594%
9	11.657	11.583	11.727	BB	1396107	17428523	100.00%	5.761%
10	12.643	12.563	12.700	BB	1292543	15851454	90.95%	5.240%
11	13.088	13.002	13.147	BB	1084327	13491128	77.41%	4.459%
12	13.256	13.208	13.307	PB	1204698	15332641	87.97%	5.068%
13	13.843	13.745	13.898	BB	1152336	14972967	85.91%	4.949%
14	14.946	14.850	15.005	BB	1071747	14292557	82.01%	4.724%
15	15.967	15.880	16.027	BB	1049540	13453877	77.19%	4.447%
16	16.919	16.830	16.987	BB	929151	12644771	72.55%	4.180%
17	17.806	17.723	17.878	VB	901911	12335576	70.78%	4.077%
18	18.639	18.590	18.727	BB	786911	11541380	66.22%	3.815%
19	19.422	19.353	19.497	BB	695978	10438103	59.89%	3.450%
20	20.162	20.110	20.253	BV	577405	9085745	52.13%	3.003%
21	20.920	20.860	21.030	BB	437337	8347689	47.90%	2.759%
22	21.873	21.775	21.985	BB	321349	8014744	45.99%	2.649%
Sum of corrected areas:						302535810		

Aliphatic EPH 100725.M Tue Oct 07 09:55:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069938.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:03
 Operator : YP/AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 07 09:27:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.649	8639976	53.435 ug/ml
Spiked Amount 50.000		Recovery =	106.87%
12) S 1-chlorooctadecane (S...	13.083	6744188	53.951 ug/ml
Spiked Amount 50.000		Recovery =	107.90%
Target Compounds			
1) T n-Nonane (C9)	3.384	6696096	51.784 ug/ml
2) T n-Decane (C10)	4.457	7033350	52.008 ug/ml
3) T A~Naphthalene (C11.7)	6.051	7918701	52.135 ug/ml
4) T n-Dodecane (C12)	6.480	7521297	52.411 ug/ml
5) T A~2-methylnaphthalene...	7.110	7871197	52.646 ug/ml
6) T n-Tetradecane (C14)	8.278	7874446	53.073 ug/ml
7) T n-Hexadecane (C16)	9.882	8368827	53.396 ug/ml
8) T n-Octadecane (C18)	11.327	8439359	53.410 ug/ml
10) T n-Eicosane (C20)	12.637	7941237	53.725 ug/ml
11) T n-Heneicosane (C21)	13.250	7684442	53.795 ug/ml
13) T n-Docosane (C22)	13.836	7552504	54.156 ug/ml
14) T n-Tetracosane (C24)	14.941	7307291	54.822 ug/ml
15) T n-Hexacosane (C26)	15.962	6889242	54.857 ug/ml
16) T n-Octacosane (C28)	16.912	6492320	54.987 ug/ml
17) T n-Tricontane (C30)	17.800	6323170	54.888 ug/ml
18) T n-Dotriacontane (C32)	18.634	5890021	54.597 ug/ml
19) T n-Tetratriacontane (C34)	19.418	5271042	53.866 ug/ml
20) T n-Hexatriacontane (C36)	20.157	4546558	53.013 ug/ml
21) T n-Octatriacontane (C38)	20.915	4117294	52.520 ug/ml
22) T n-Tetracontane (C40)	21.868	3935168	52.363 ug/ml

(f)=RT Delta > 1/2 Window

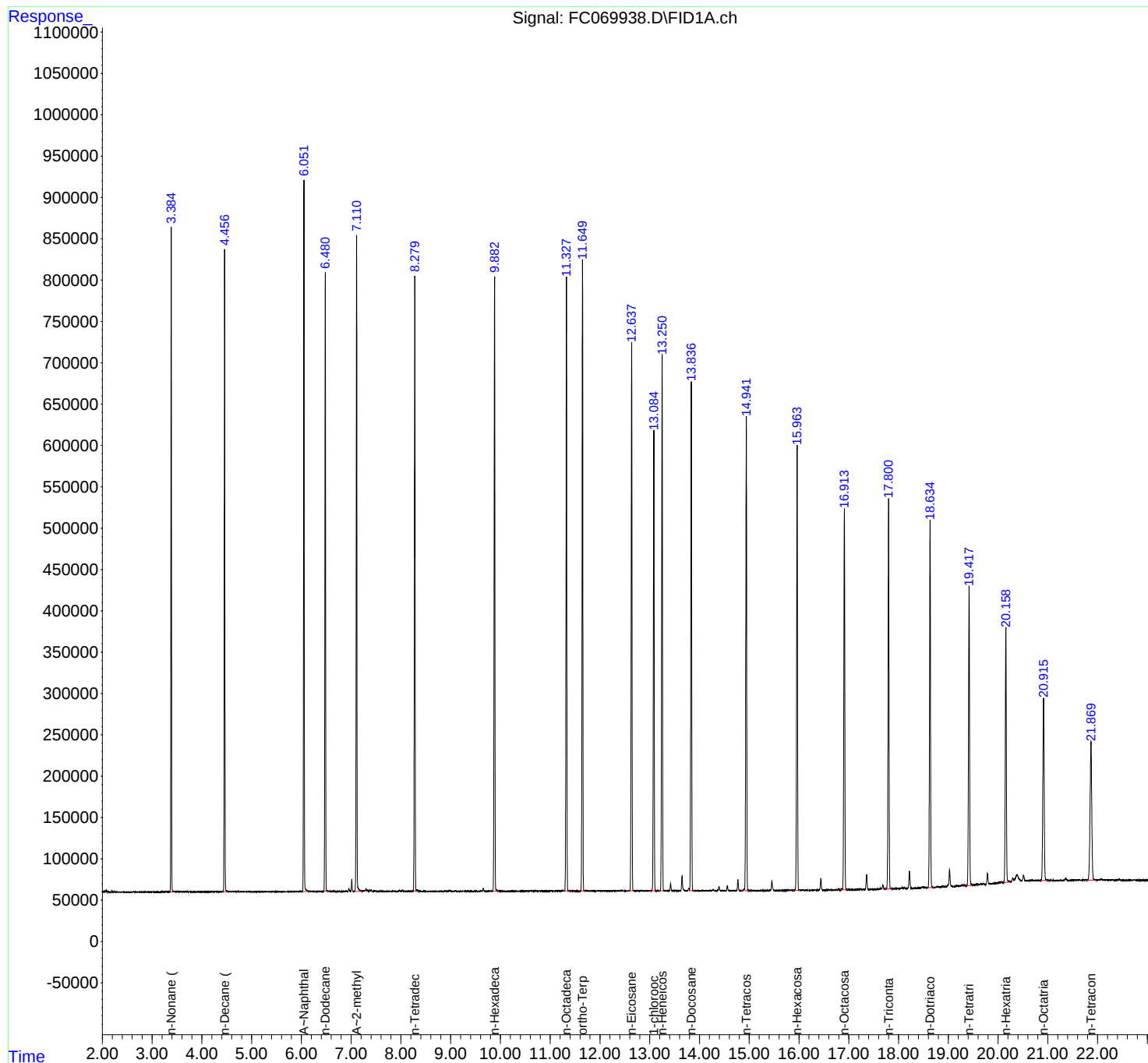
(m)=manual int.

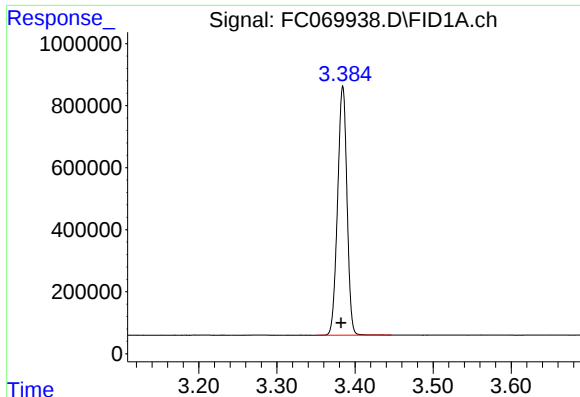
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069938.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 17:03
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 07 09:27:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

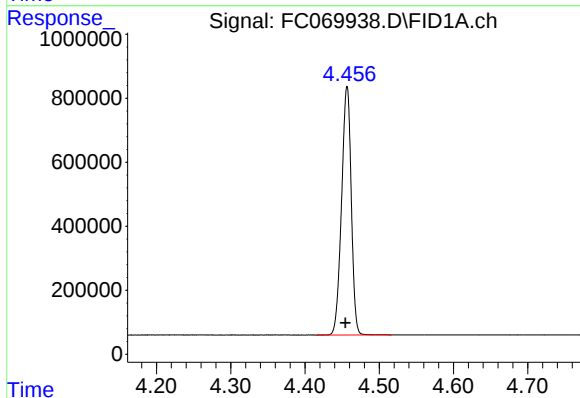




#1 n-Nonane (C9)

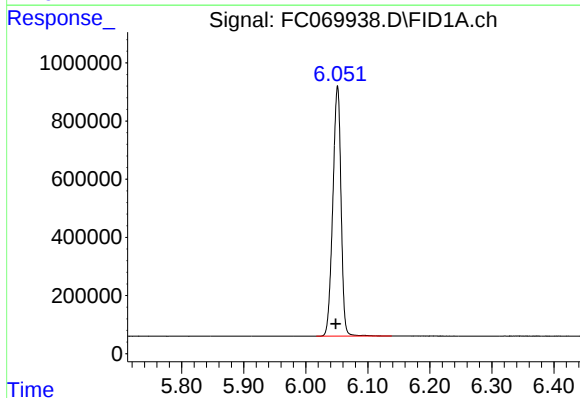
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 6696096
Conc: 51.78 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



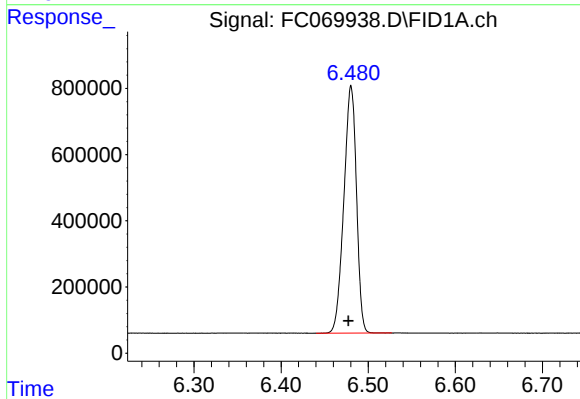
#2 n-Decane (C10)

R.T.: 4.457 min
Delta R.T.: 0.002 min
Response: 7033350
Conc: 52.01 ug/ml



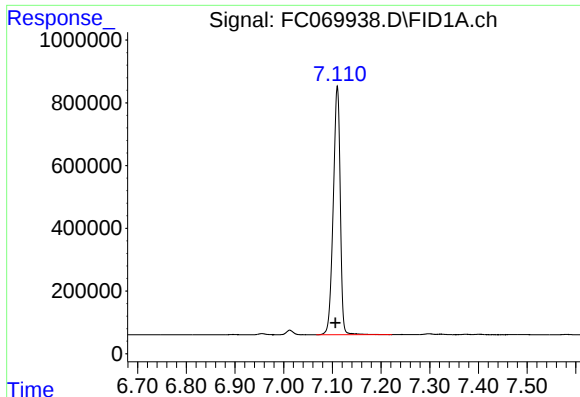
#3 A~Naphthalene (C11.7)

R.T.: 6.051 min
Delta R.T.: 0.003 min
Response: 7918701
Conc: 52.13 ug/ml



#4 n-Dodecane (C12)

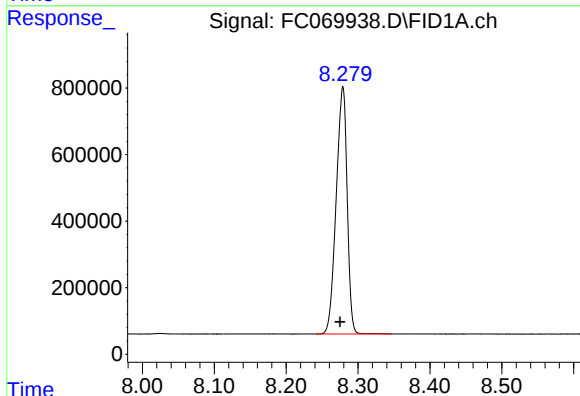
R.T.: 6.480 min
Delta R.T.: 0.003 min
Response: 7521297
Conc: 52.41 ug/ml



#5 A~2-methylnaphthalene (C12.89)

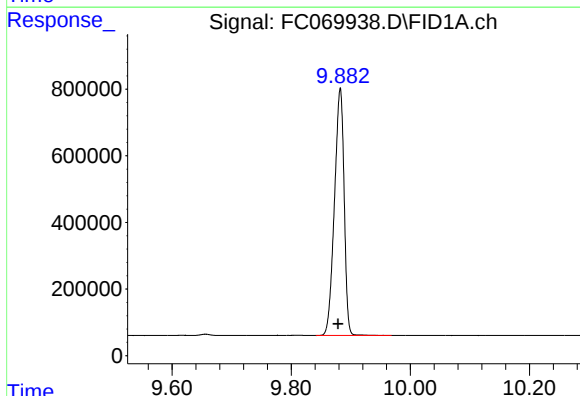
R.T.: 7.110 min
Delta R.T.: 0.004 min
Response: 7871197
Conc: 52.65 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



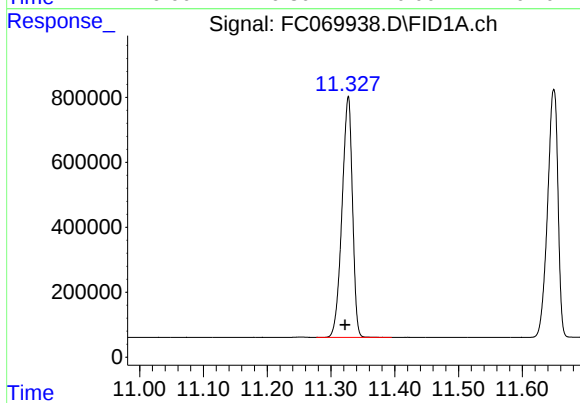
#6 n-Tetradecane (C14)

R.T.: 8.278 min
Delta R.T.: 0.004 min
Response: 7874446
Conc: 53.07 ug/ml



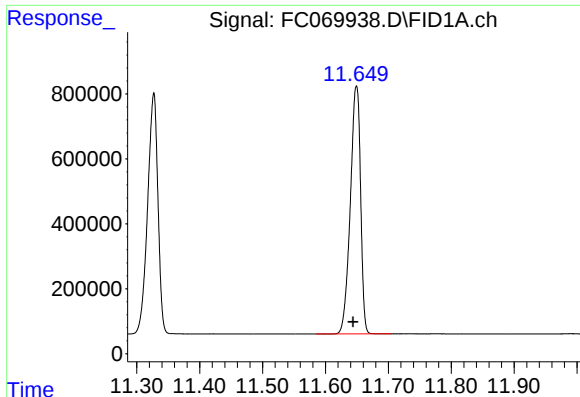
#7 n-Hexadecane (C16)

R.T.: 9.882 min
Delta R.T.: 0.004 min
Response: 8368827
Conc: 53.40 ug/ml



#8 n-Octadecane (C18)

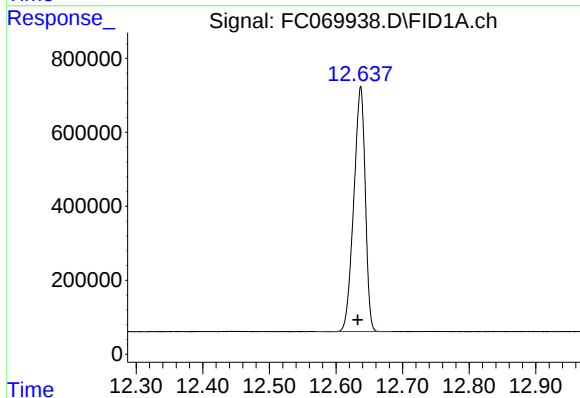
R.T.: 11.327 min
Delta R.T.: 0.005 min
Response: 8439359
Conc: 53.41 ug/ml



#9 ortho-Terphenyl (SURR)

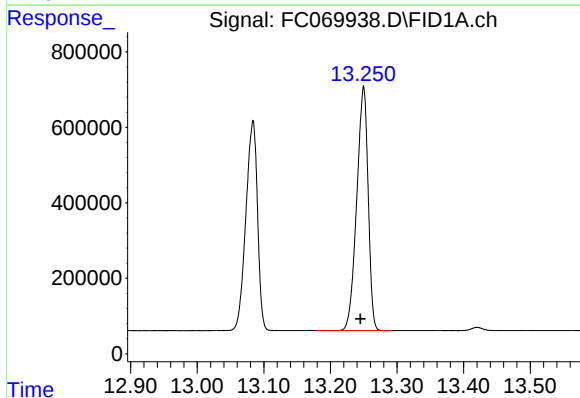
R.T.: 11.649 min
Delta R.T.: 0.005 min
Response: 8639976
Conc: 53.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



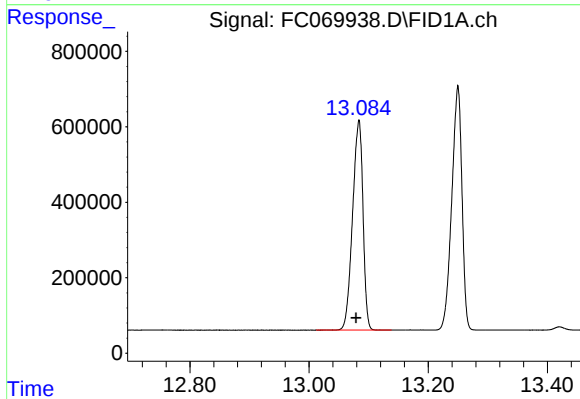
#10 n-Eicosane (C20)

R.T.: 12.637 min
Delta R.T.: 0.004 min
Response: 7941237
Conc: 53.72 ug/ml



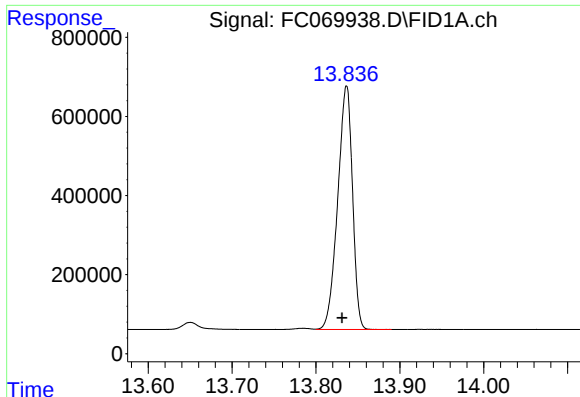
#11 n-Heneicosane (C21)

R.T.: 13.250 min
Delta R.T.: 0.004 min
Response: 7684442
Conc: 53.80 ug/ml



#12 1-chlorooctadecane (SURR)

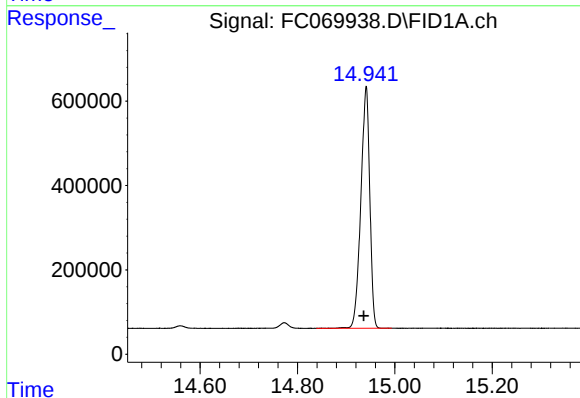
R.T.: 13.083 min
Delta R.T.: 0.004 min
Response: 6744188
Conc: 53.95 ug/ml



#13 n-Docosane (C22)

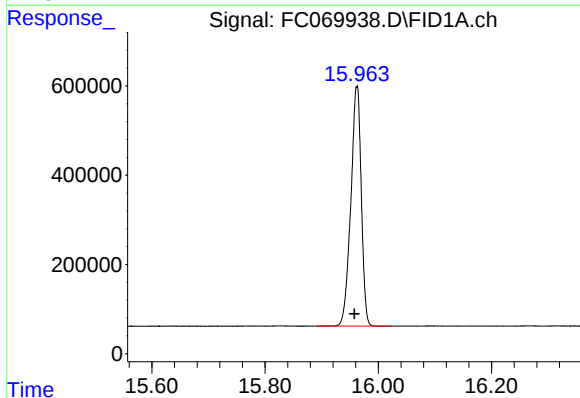
R.T.: 13.836 min
Delta R.T.: 0.005 min
Response: 7552504
Conc: 54.16 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



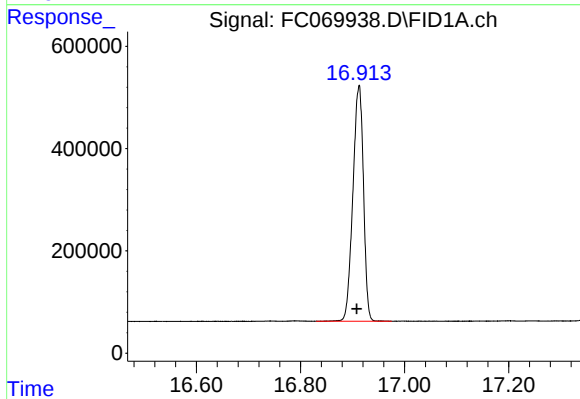
#14 n-Tetracosane (C24)

R.T.: 14.941 min
Delta R.T.: 0.005 min
Response: 7307291
Conc: 54.82 ug/ml



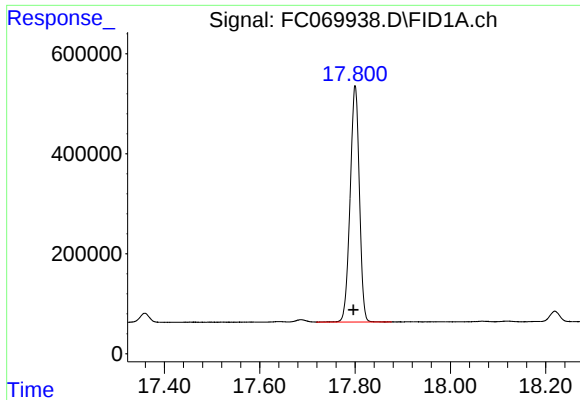
#15 n-Hexacosane (C26)

R.T.: 15.962 min
Delta R.T.: 0.004 min
Response: 6889242
Conc: 54.86 ug/ml



#16 n-Octacosane (C28)

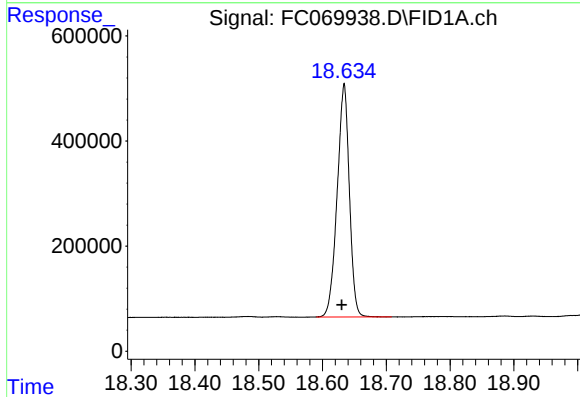
R.T.: 16.912 min
Delta R.T.: 0.004 min
Response: 6492320
Conc: 54.99 ug/ml



#17 n-Tricontane (C30)

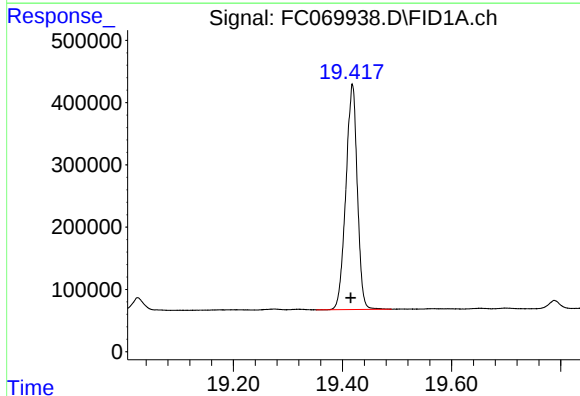
R.T.: 17.800 min
Delta R.T.: 0.003 min
Response: 6323170
Conc: 54.89 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



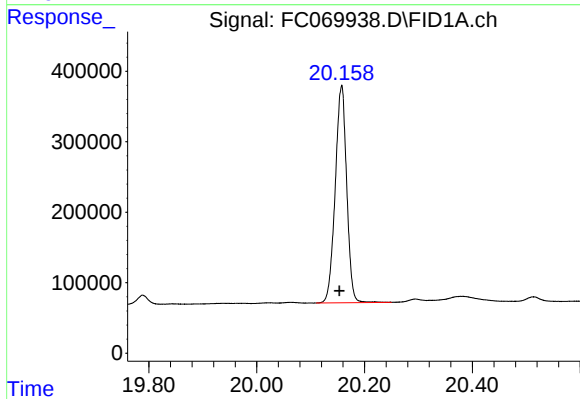
#18 n-Dotriacontane (C32)

R.T.: 18.634 min
Delta R.T.: 0.004 min
Response: 5890021
Conc: 54.60 ug/ml



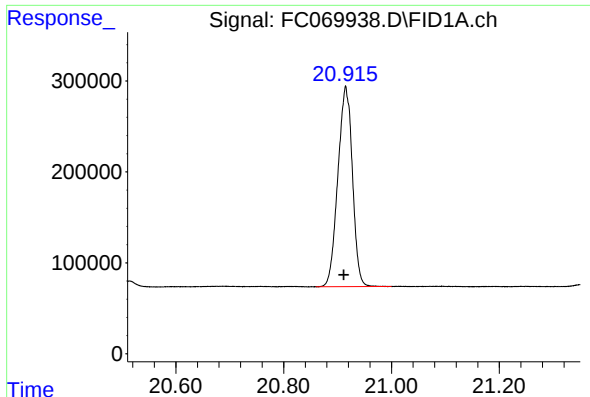
#19 n-Tetratriacontane (C34)

R.T.: 19.418 min
Delta R.T.: 0.003 min
Response: 5271042
Conc: 53.87 ug/ml



#20 n-Hexatriacontane (C36)

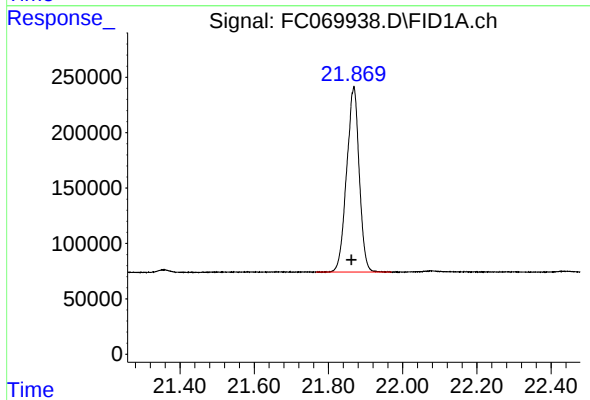
R.T.: 20.157 min
Delta R.T.: 0.004 min
Response: 4546558
Conc: 53.01 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.915 min
Delta R.T.: 0.004 min
Response: 4117294
Conc: 52.52 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.868 min
Delta R.T.: 0.006 min
Response: 3935168
Conc: 52.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069938.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:03
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.350	3.447	BB	801570	6696096	77.50%	4.433%
2	4.457	4.415	4.517	BB	779306	7033350	81.40%	4.656%
3	6.051	6.017	6.138	BB	866132	7918701	91.65%	5.242%
4	6.480	6.440	6.527	BB	748366	7521297	87.05%	4.979%
5	7.110	7.067	7.222	BV	794441	7871197	91.10%	5.211%
6	8.279	8.242	8.347	BB	744209	7874446	91.14%	5.213%
7	9.882	9.842	9.968	BB	741300	8368827	96.86%	5.540%
8	11.327	11.277	11.395	BB	742837	8439359	97.68%	5.587%
9	11.649	11.585	11.705	BB	764057	8639976	100.00%	5.720%
10	12.637	12.570	12.683	BB	664039	7941237	91.91%	5.257%
11	13.083	13.012	13.138	BB	556995	6744188	78.06%	4.465%
12	13.250	13.178	13.292	BB	650441	7684442	88.94%	5.087%
13	13.836	13.800	13.890	VB	618103	7552504	87.41%	5.000%
14	14.941	14.838	14.993	BB	570910	7307291	84.58%	4.837%
15	15.962	15.890	16.023	BB	537205	6889242	79.74%	4.561%
16	16.912	16.830	16.975	BB	458574	6492320	75.14%	4.298%
17	17.800	17.718	17.877	PB	472780	6323170	73.19%	4.186%
18	18.634	18.590	18.708	BB	443374	5890021	68.17%	3.899%
19	19.418	19.352	19.490	BB	361847	5271042	61.01%	3.489%
20	20.157	20.110	20.250	BB	306826	4546558	52.62%	3.010%
21	20.915	20.860	21.000	BB	220293	4117294	47.65%	2.726%
22	21.868	21.767	21.970	BB	167406	3935168	45.55%	2.605%
Sum of corrected areas:						151057725		

Aliphatic EPH 100725.M Tue Oct 07 09:56:29 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069939.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:50
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 07 09:28:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.644	3233829	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.079	2500104	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.382	2586179	20.000 ug/ml
2) T n-Decane (C10)	4.455	2704739	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.048	3037797	20.000 ug/ml
4) T n-Dodecane (C12)	6.477	2870146	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.106	2990239	20.000 ug/ml
6) T n-Tetradecane (C14)	8.275	2967400	20.000 ug/ml
7) T n-Hexadecane (C16)	9.879	3134629	20.000 ug/ml
8) T n-Octadecane (C18)	11.322	3160241	20.000 ug/ml
10) T n-Eicosane (C20)	12.633	2956263	20.000 ug/ml
11) T n-Heneicosane (C21)	13.245	2856934	20.000 ug/ml
13) T n-Docosane (C22)	13.831	2789185	20.000 ug/ml
14) T n-Tetracosane (C24)	14.936	2665846	20.000 ug/ml
15) T n-Hexacosane (C26)	15.958	2511687	20.000 ug/ml
16) T n-Octacosane (C28)	16.908	2361381	20.000 ug/ml
17) T n-Tricontane (C30)	17.797	2304010	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.630	2157650	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.415	1957095	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.153	1715254	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.912	1567899	20.000 ug/ml
22) T n-Tetracontane (C40)	21.862	1503047	20.000 ug/ml

(f)=RT Delta > 1/2 Window

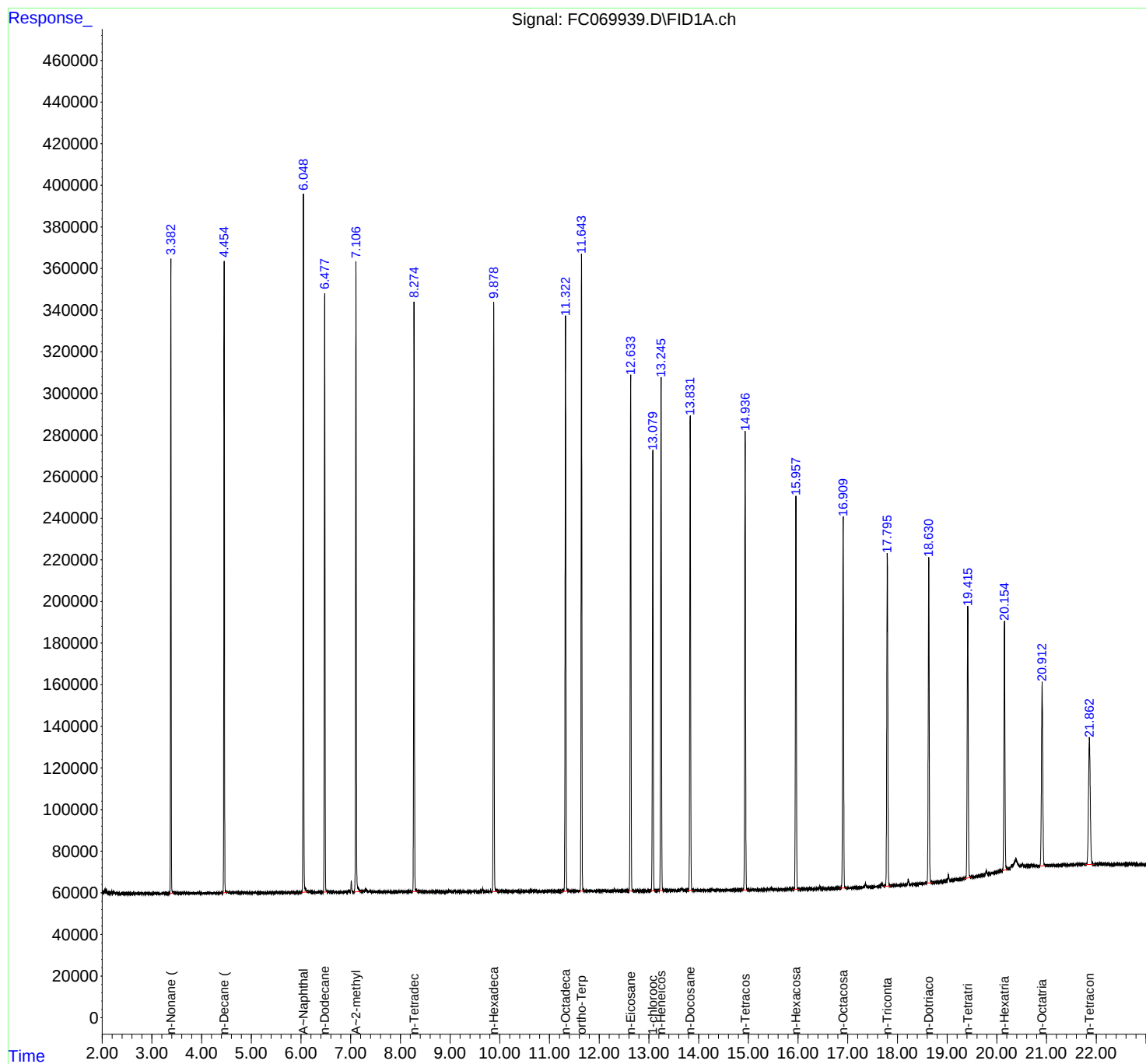
(m)=manual int.

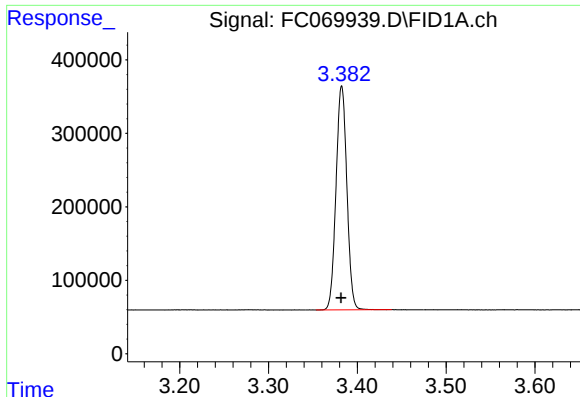
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069939.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 17:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 07 09:28:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

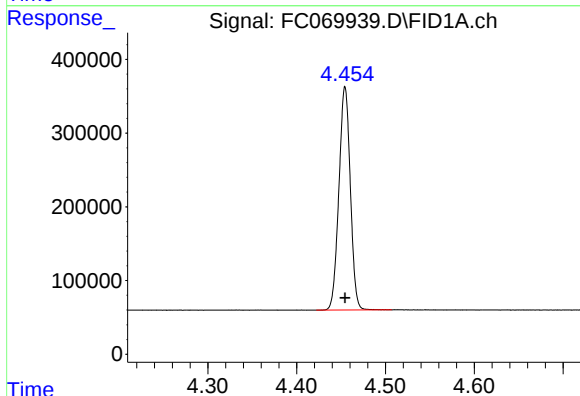




#1 n-Nonane (C9)

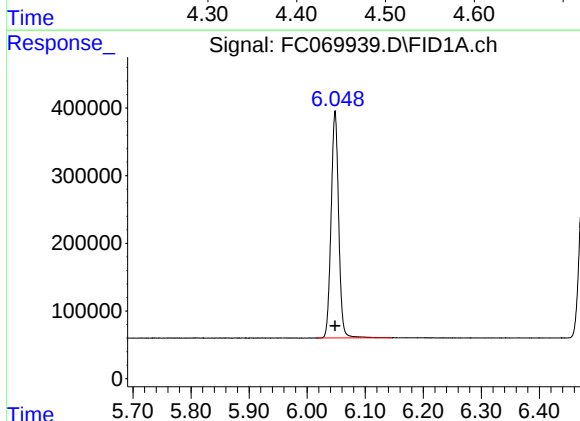
R.T.: 3.382 min
Delta R.T.: 0.000 min
Response: 2586179
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



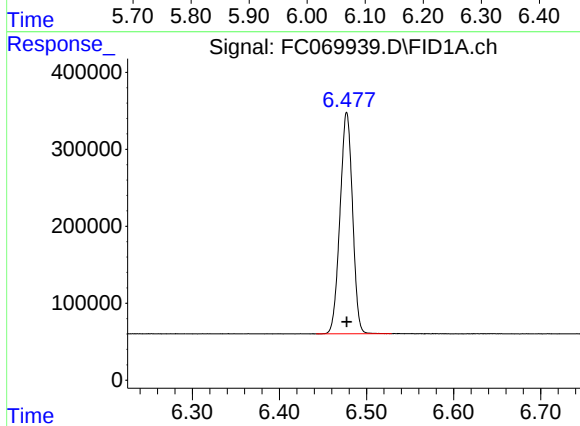
#2 n-Decane (C10)

R.T.: 4.455 min
Delta R.T.: 0.000 min
Response: 2704739
Conc: 20.00 ug/ml



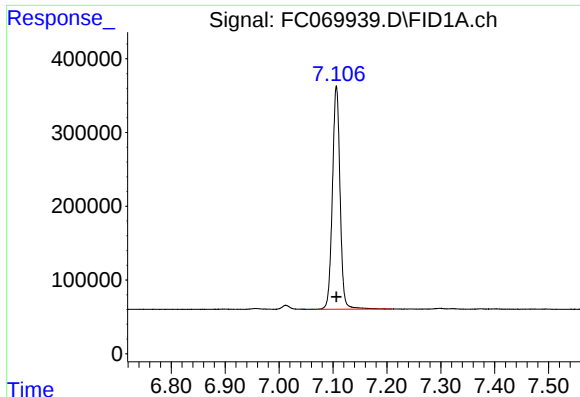
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 3037797
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

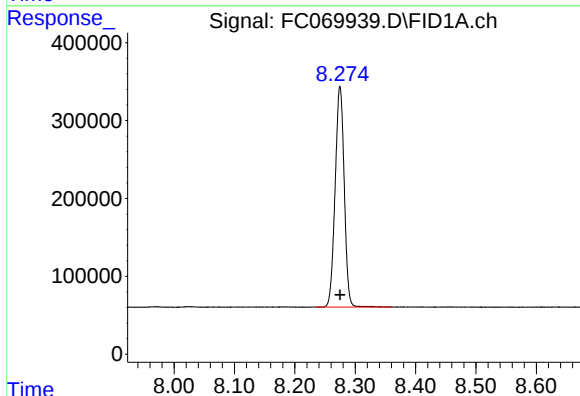
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 2870146
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

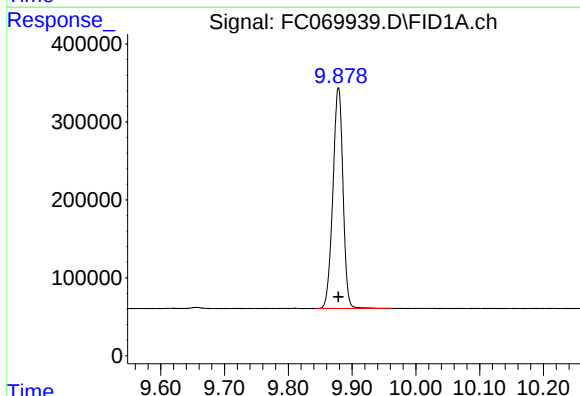
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 2990239
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



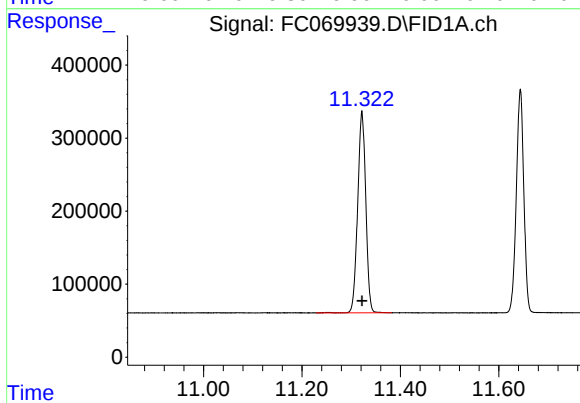
#6 n-Tetradecane (C14)

R.T.: 8.275 min
Delta R.T.: 0.000 min
Response: 2967400
Conc: 20.00 ug/ml



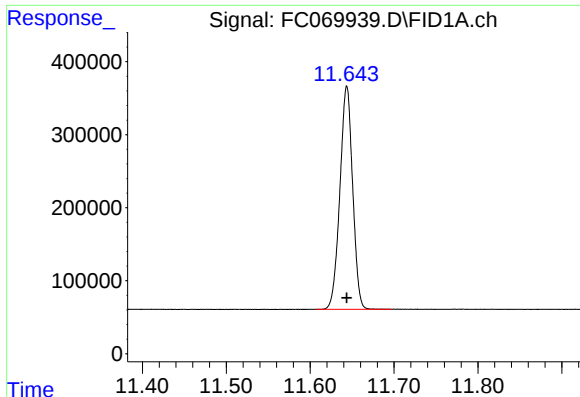
#7 n-Hexadecane (C16)

R.T.: 9.879 min
Delta R.T.: 0.000 min
Response: 3134629
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

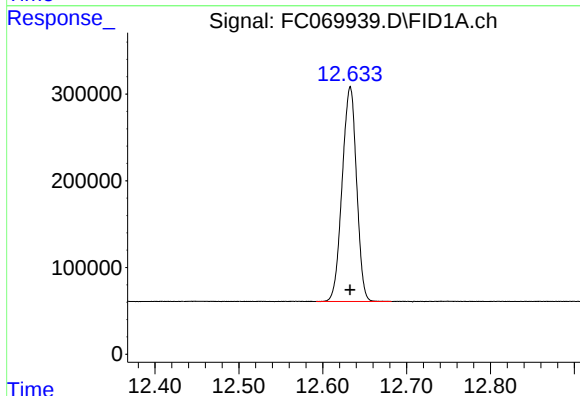
R.T.: 11.322 min
Delta R.T.: 0.000 min
Response: 3160241
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

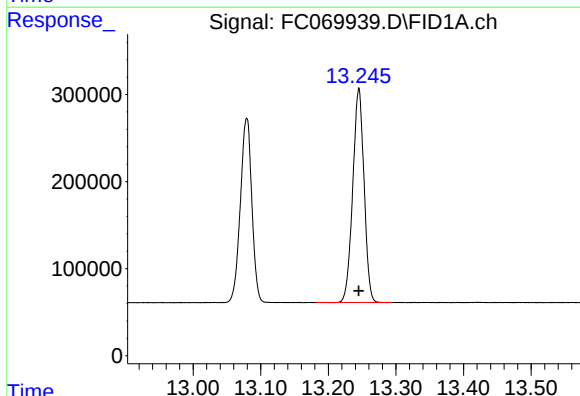
R.T.: 11.644 min
Delta R.T.: 0.000 min
Response: 3233829
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



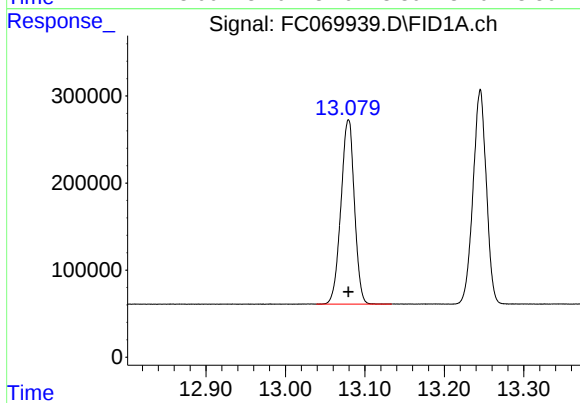
#10 n-Eicosane (C20)

R.T.: 12.633 min
Delta R.T.: 0.000 min
Response: 2956263
Conc: 20.00 ug/ml



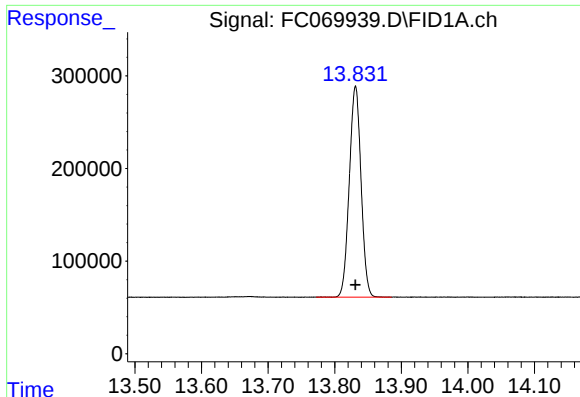
#11 n-Heneicosane (C21)

R.T.: 13.245 min
Delta R.T.: 0.000 min
Response: 2856934
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

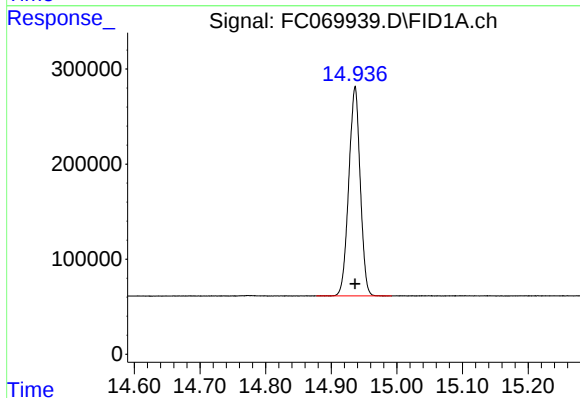
R.T.: 13.079 min
Delta R.T.: 0.000 min
Response: 2500104
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

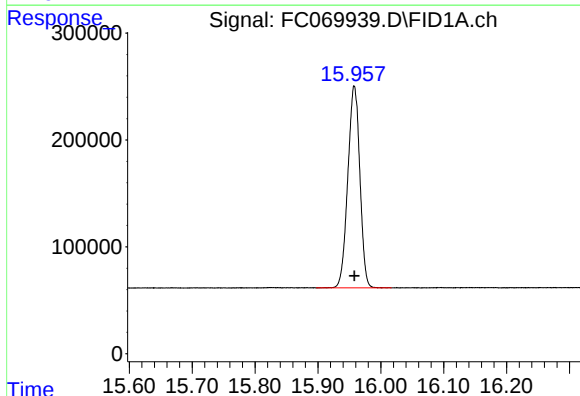
R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 2789185
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



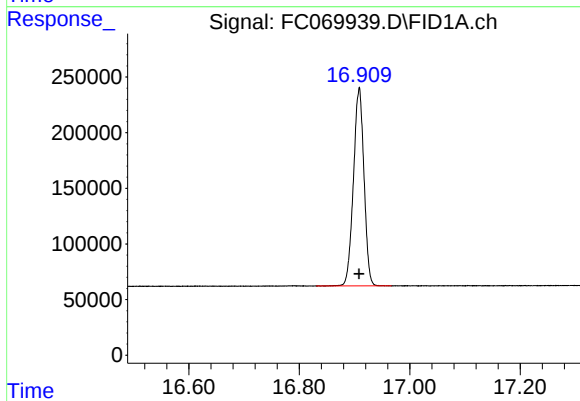
#14 n-Tetracosane (C24)

R.T.: 14.936 min
Delta R.T.: 0.000 min
Response: 2665846
Conc: 20.00 ug/ml



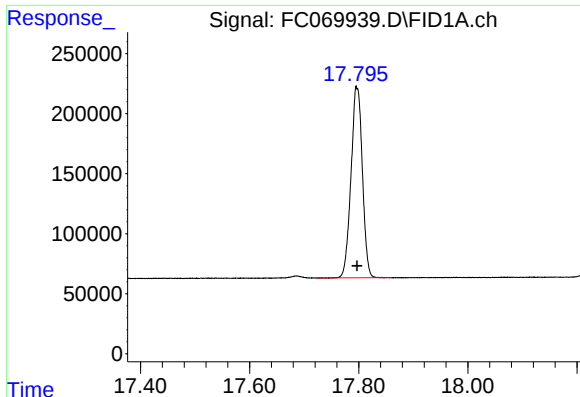
#15 n-Hexacosane (C26)

R.T.: 15.958 min
Delta R.T.: 0.000 min
Response: 2511687
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

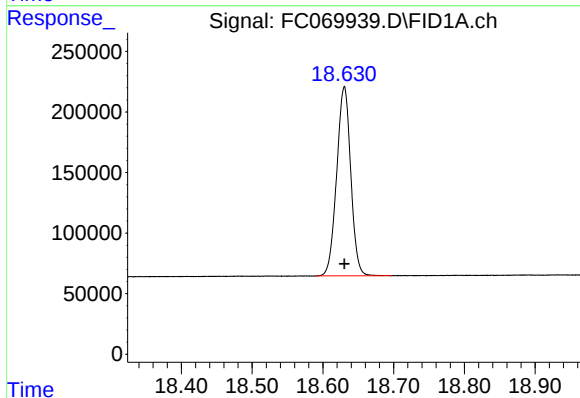
R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 2361381
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

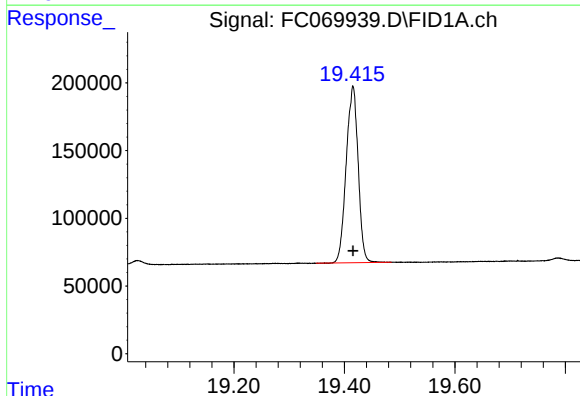
R.T.: 17.797 min
Delta R.T.: 0.000 min
Response: 2304010
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



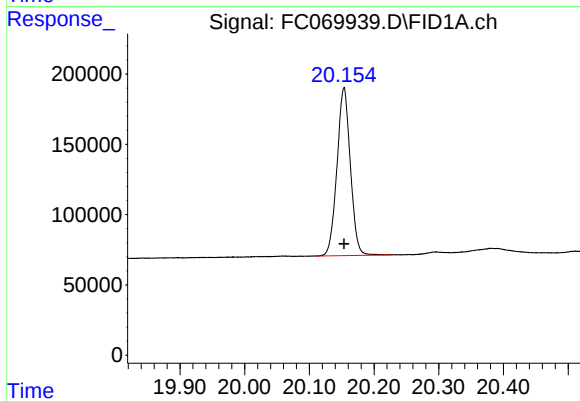
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: 0.000 min
Response: 2157650
Conc: 20.00 ug/ml



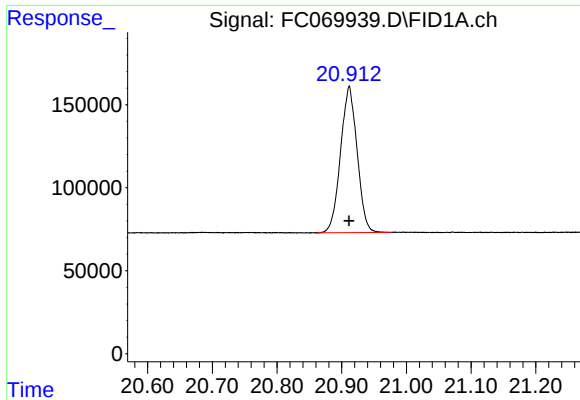
#19 n-Tetratriacontane (C34)

R.T.: 19.415 min
Delta R.T.: 0.000 min
Response: 1957095
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

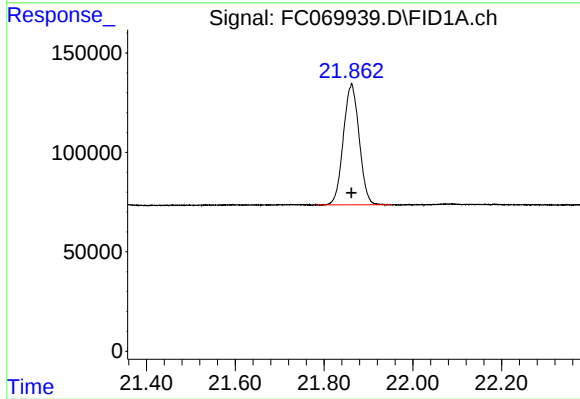
R.T.: 20.153 min
Delta R.T.: 0.000 min
Response: 1715254
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.912 min
Delta R.T.: 0.000 min
Response: 1567899
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.862 min
Delta R.T.: 0.000 min
Response: 1503047
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069939.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 17:50
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.383	3.354	3.439	BB	304942	2586179	79.97%	4.575%
2	4.455	4.422	4.507	BB	303233	2704739	83.64%	4.784%
3	6.048	6.015	6.145	BB	336136	3037797	93.94%	5.374%
4	6.477	6.442	6.529	BB	288019	2870146	88.75%	5.077%
5	7.106	7.069	7.209	BB	302692	2990239	92.47%	5.290%
6	8.275	8.235	8.360	BB	283402	2967400	91.76%	5.249%
7	9.879	9.844	9.962	BB	283622	3134629	96.93%	5.545%
8	11.322	11.229	11.382	BB	275975	3160241	97.72%	5.590%
9	11.644	11.607	11.697	BB	306418	3233829	100.00%	5.720%
10	12.633	12.592	12.682	BB	247337	2956263	91.42%	5.229%
11	13.079	13.039	13.134	BB	211975	2500104	77.31%	4.422%
12	13.245	13.182	13.294	BB	247074	2856934	88.35%	5.054%
13	13.831	13.772	13.885	BB	228326	2789185	86.25%	4.934%
14	14.936	14.877	14.992	BB	219421	2665846	82.44%	4.716%
15	15.958	15.897	16.017	BB	189463	2511687	77.67%	4.443%
16	16.908	16.830	16.967	BB	179015	2361381	73.02%	4.177%
17	17.797	17.722	17.860	BB	157250	2304010	71.25%	4.076%
18	18.630	18.590	18.697	BB	156475	2157650	66.72%	3.817%
19	19.415	19.349	19.485	BB	130941	1957095	60.52%	3.462%
20	20.153	20.110	20.227	BB	119849	1715254	53.04%	3.034%
21	20.912	20.860	20.977	BB	88544	1567899	48.48%	2.773%
22	21.862	21.782	21.952	BB	61121	1503047	46.48%	2.659%
Sum of corrected areas:							56531551	

Aliphatic EPH 100725.M Tue Oct 07 09:56:50 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069940.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 18:35
 Operator : YP/AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/07/2025
 Supervised By :mohammad ahmed 10/08/2025

Integration File: autoint1.e
 Quant Time: Oct 07 09:28:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.643	1801769	11.143 ug/ml
Spiked Amount 50.000		Recovery =	22.29%
12) S 1-chlorooctadecane (S...	13.078	1388999	11.112 ug/ml
Spiked Amount 50.000		Recovery =	22.22%
Target Compounds			
1) T n-Nonane (C9)	3.383	1405419	10.869 ug/ml
2) T n-Decane (C10)	4.454	1465951	10.840 ug/ml
3) T A~Naphthalene (C11.7)	6.048	1651182	10.871 ug/ml
4) T n-Dodecane (C12)	6.477	1556658	10.847 ug/ml
5) T A~2-methylnaphthalene...	7.106	1621428	10.845 ug/ml
6) T n-Tetradecane (C14)	8.274	1614710	10.883 ug/ml
7) T n-Hexadecane (C16)	9.877	1710570	10.914 ug/ml
8) T n-Octadecane (C18)	11.321	1731363	10.957 ug/ml
10) T n-Eicosane (C20)	12.632	1640453	11.098 ug/ml
11) T n-Heneicosane (C21)	13.244	1588969	11.124 ug/ml
13) T n-Docosane (C22)	13.831	1574378	11.289 ug/ml
14) T n-Tetracosane (C24)	14.935	1554075	11.659 ug/ml
15) T n-Hexacosane (C26)	15.957	1477357	11.764 ug/ml
16) T n-Octacosane (C28)	16.908	1413177	11.969 ug/ml
17) T n-Tricontane (C30)	17.796	1411056	12.249 ug/ml
18) T n-Dotriacontane (C32)	18.630	1341453	12.434 ug/ml
19) T n-Tetratriacontane (C34)	19.413	1188034	12.141 ug/mlm
20) T n-Hexatriacontane (C36)	20.154	1002661	11.691 ug/ml
21) T n-Octatriacontane (C38)	20.911	914301	11.663 ug/ml
22) T n-Tetracontane (C40)	21.862	866175	11.526 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069940.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 18:35
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

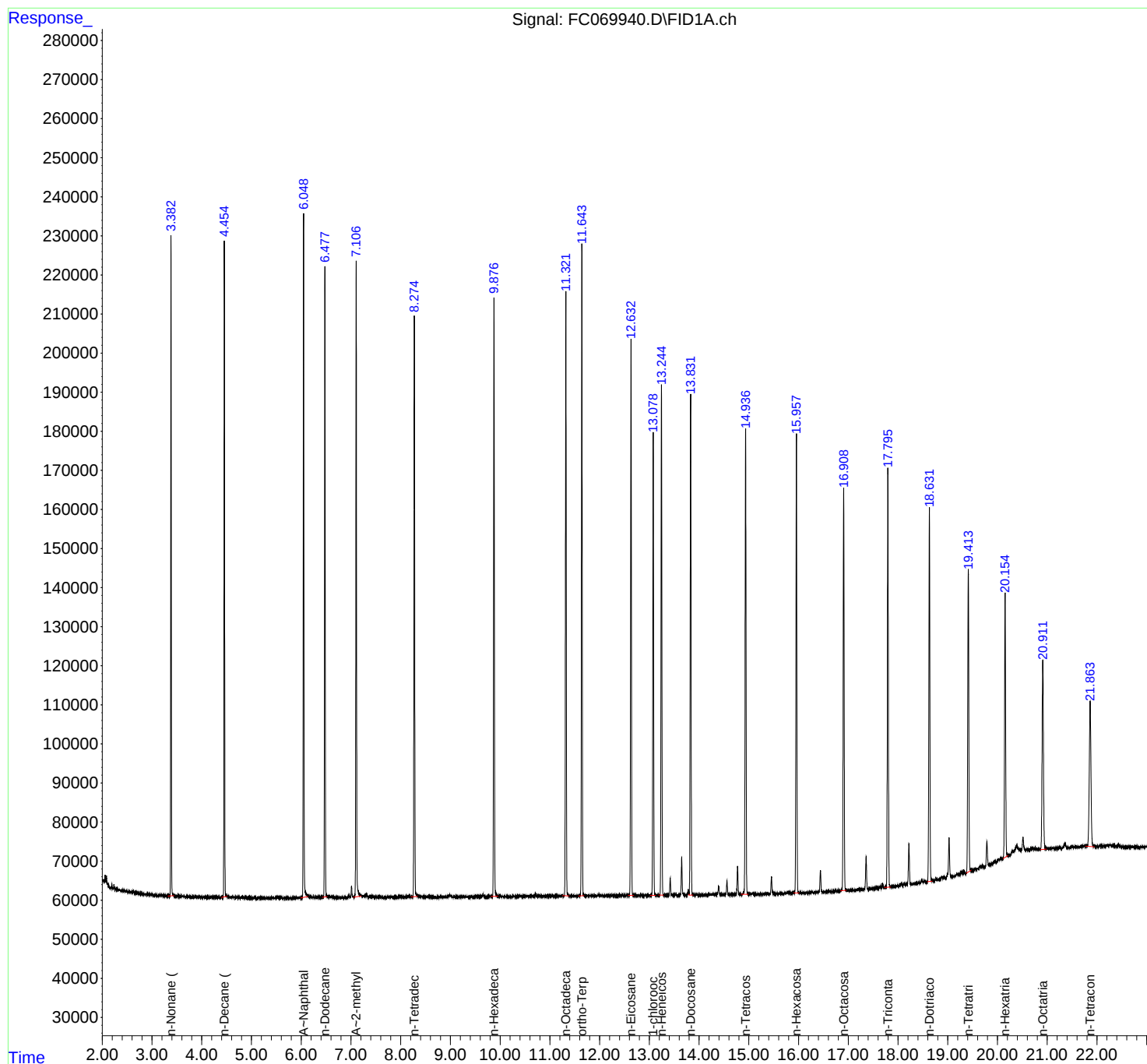
Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

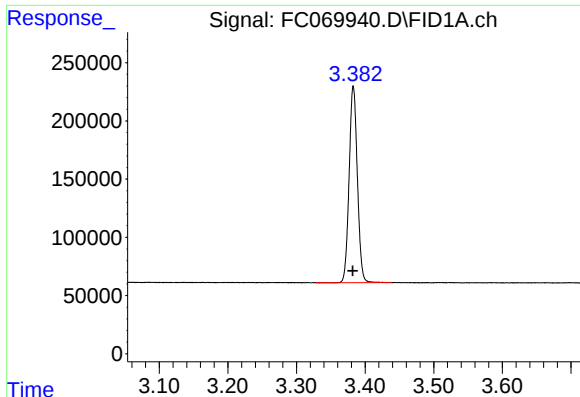
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025

Integration File: autoint1.e
Quant Time: Oct 07 09:28:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





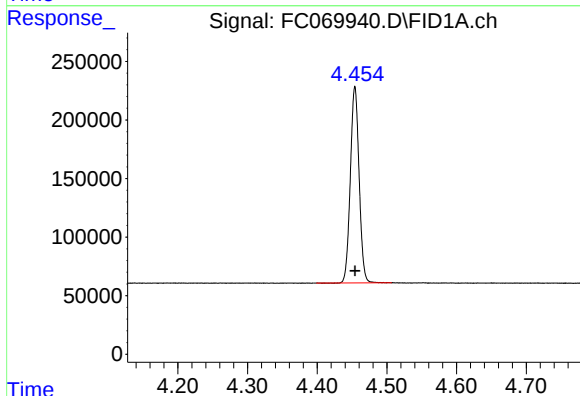
#1 n-Nonane (C9)

R.T.: 3.383 min
Delta R.T.: 0.000 min
Response: 1405419
Conc: 10.87 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

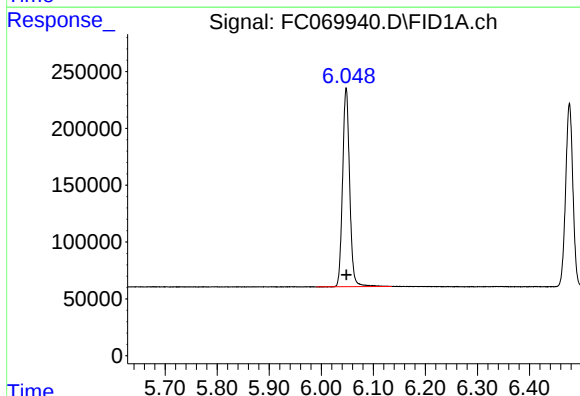
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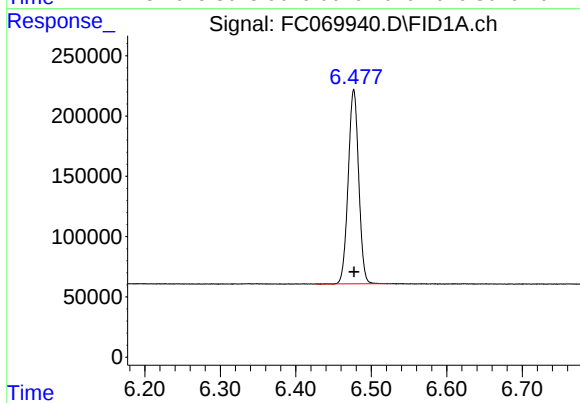
#2 n-Decane (C10)

R.T.: 4.454 min
Delta R.T.: 0.000 min
Response: 1465951
Conc: 10.84 ug/ml



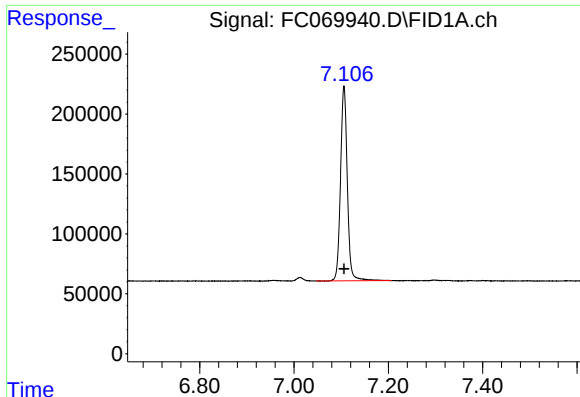
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 1651182
Conc: 10.87 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 1556658
Conc: 10.85 ug/ml



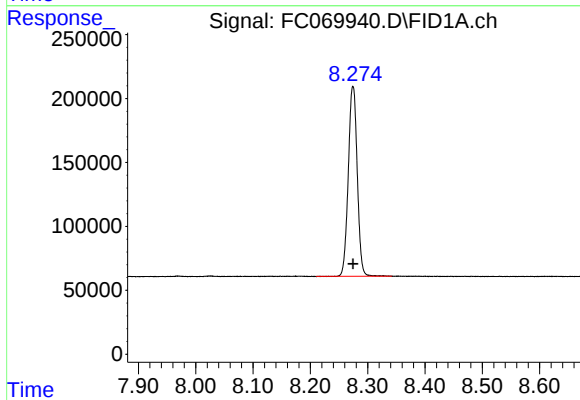
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 1621428
Conc: 10.84 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

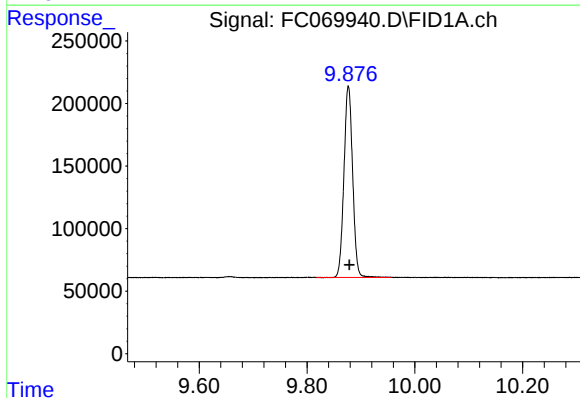
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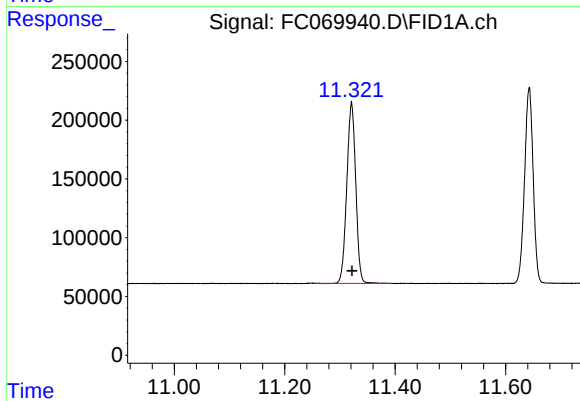
#6 n-Tetradecane (C14)

R.T.: 8.274 min
Delta R.T.: 0.000 min
Response: 1614710
Conc: 10.88 ug/ml



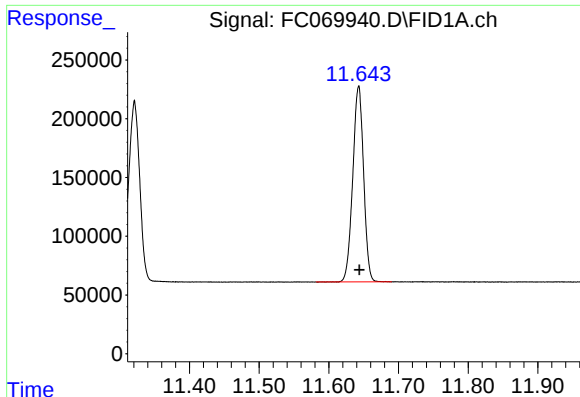
#7 n-Hexadecane (C16)

R.T.: 9.877 min
Delta R.T.: -0.002 min
Response: 1710570
Conc: 10.91 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.321 min
Delta R.T.: 0.000 min
Response: 1731363
Conc: 10.96 ug/ml



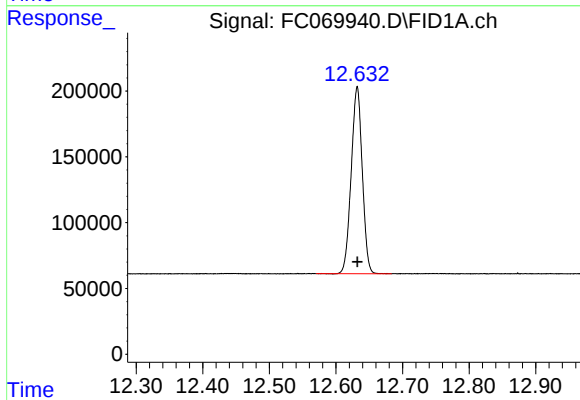
#9 ortho-Terphenyl (SURR)

R.T.: 11.643 min
Delta R.T.: 0.000 min
Response: 1801769
Conc: 11.14 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

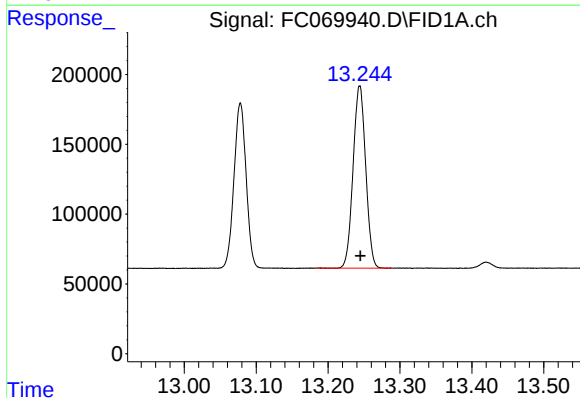
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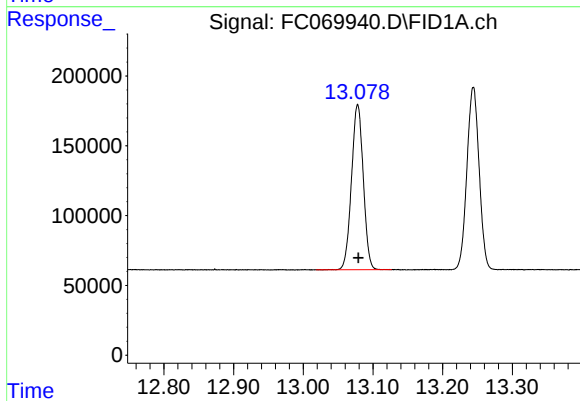
#10 n-Eicosane (C20)

R.T.: 12.632 min
Delta R.T.: 0.000 min
Response: 1640453
Conc: 11.10 ug/ml



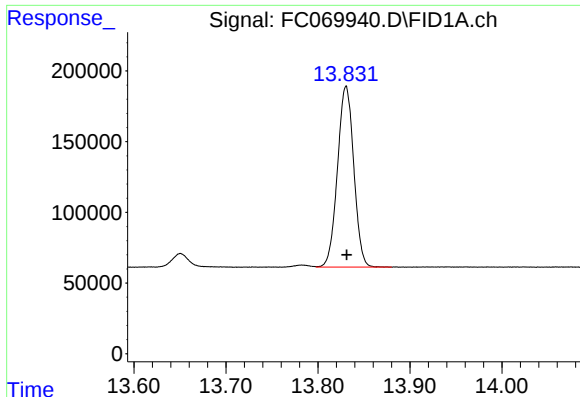
#11 n-Heneicosane (C21)

R.T.: 13.244 min
Delta R.T.: -0.001 min
Response: 1588969
Conc: 11.12 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.078 min
Delta R.T.: -0.001 min
Response: 1388999
Conc: 11.11 ug/ml



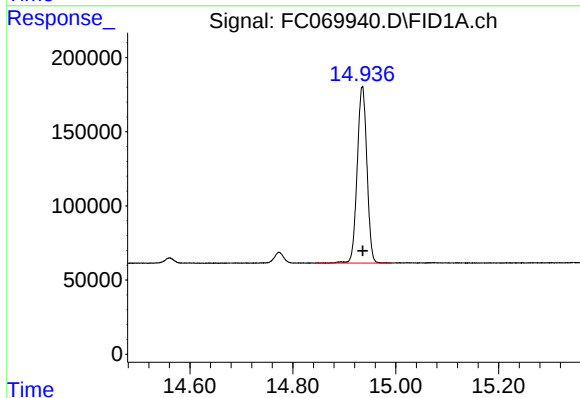
#13 n-Docosane (C22)

R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 1574378
Conc: 11.29 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

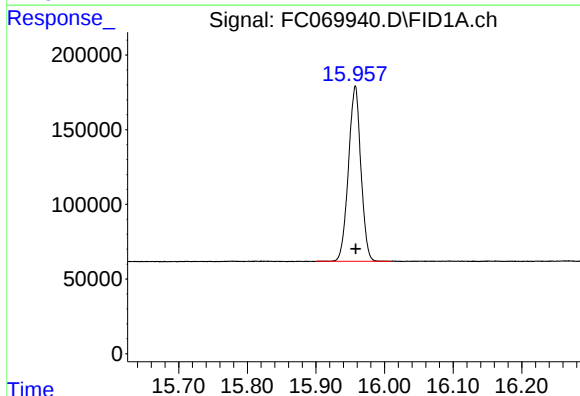
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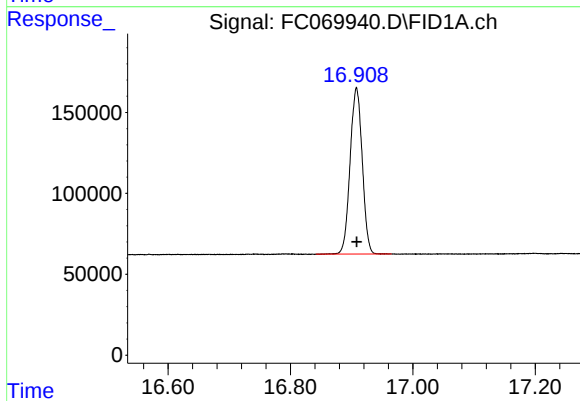
#14 n-Tetracosane (C24)

R.T.: 14.935 min
Delta R.T.: -0.001 min
Response: 1554075
Conc: 11.66 ug/ml



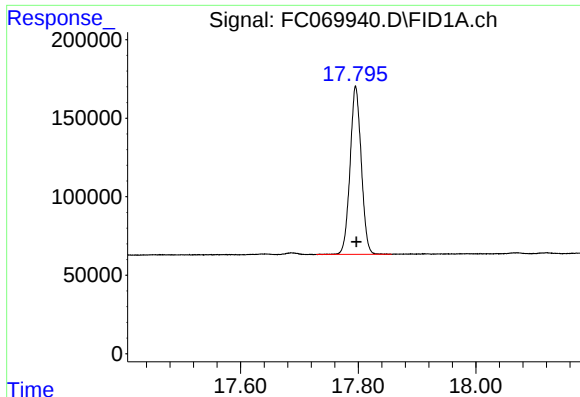
#15 n-Hexacosane (C26)

R.T.: 15.957 min
Delta R.T.: 0.000 min
Response: 1477357
Conc: 11.76 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 1413177
Conc: 11.97 ug/ml



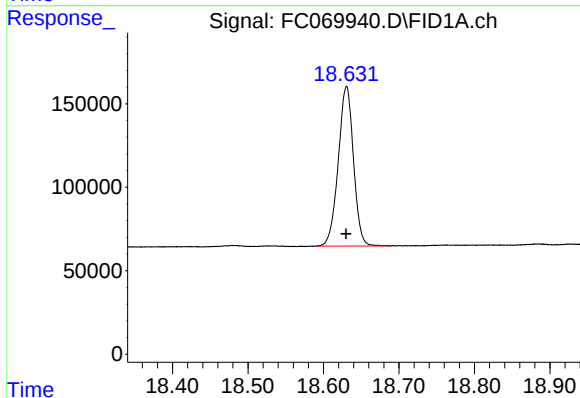
#17 n-Tricontane (C30)

R.T.: 17.796 min
Delta R.T.: -0.001 min
Response: 1411056
Conc: 12.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

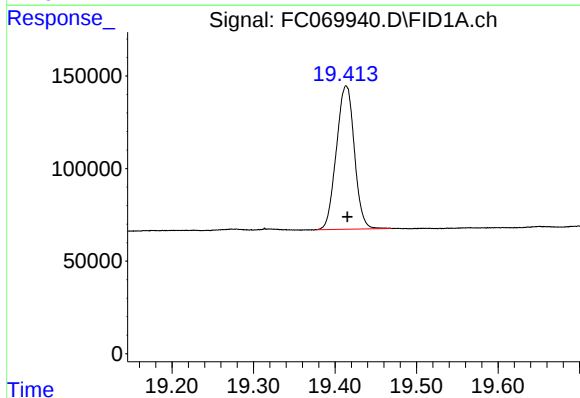
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Reviewed By :Yogesh Patel 10/07/2025
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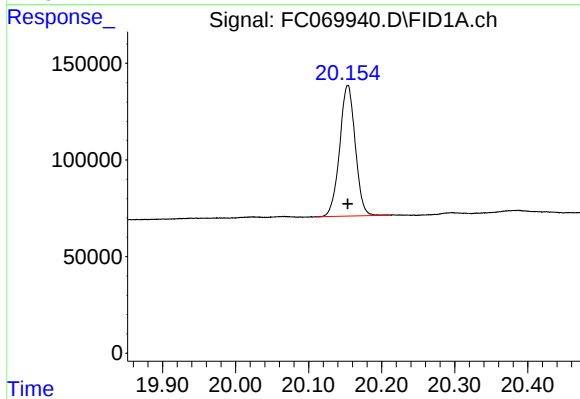
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: 0.000 min
Response: 1341453
Conc: 12.43 ug/ml



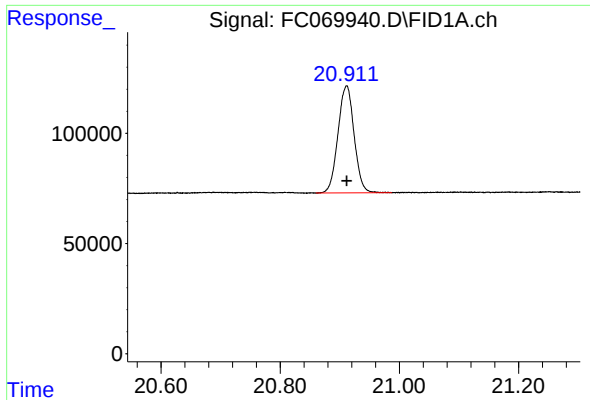
#19 n-Tetratriacontane (C34)

R.T.: 19.413 min
Delta R.T.: -0.002 min
Response: 1188034
Conc: 12.14 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.154 min
Delta R.T.: 0.000 min
Response: 1002661
Conc: 11.69 ug/ml



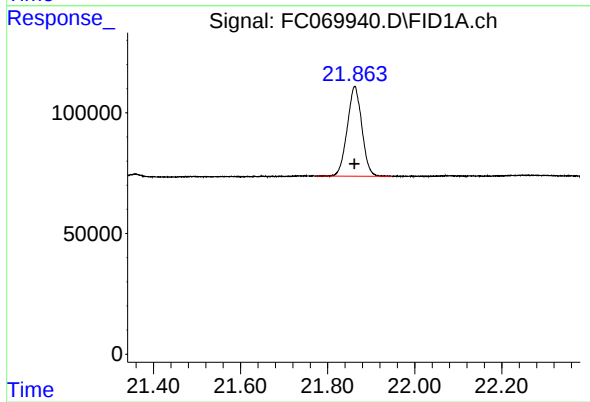
#21 n-Octatriacontane (C38)

R.T.: 20.911 min
Delta R.T.: 0.000 min
Response: 914301
Conc: 11.66 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025



#22 n-Tetracontane (C40)

R.T.: 21.862 min
Delta R.T.: 0.000 min
Response: 866175
Conc: 11.53 ug/ml

rteres

Instrument :
FID_C
LabSampleId :
10 PPM ALIPHATIC HC STD4
Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725
Data File : FC069940.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 18:35
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/07/2025
Supervised By :mohammad ahmed 10/08/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.383	3.329	3.439	BB	168169	1405419	78.00%	4.403%
2	4.454	4.399	4.507	BB	167388	1465951	81.36%	4.593%
3	6.048	5.990	6.135	BB	175506	1651182	91.64%	5.173%
4	6.477	6.427	6.527	BB	161264	1556658	86.40%	4.877%
5	7.106	7.047	7.207	BB	162945	1621428	89.99%	5.080%
6	8.274	8.210	8.342	BB	148764	1614710	89.62%	5.059%
7	9.877	9.817	9.957	BB	152925	1710570	94.94%	5.360%
8	11.321	11.257	11.394	BB	153863	1731363	96.09%	5.425%
9	11.643	11.582	11.690	BB	166069	1801769	100.00%	5.645%
10	12.632	12.570	12.684	BB	142405	1640453	91.05%	5.140%
11	13.078	13.019	13.127	BB	118480	1388999	77.09%	4.352%
12	13.244	13.184	13.289	BB	130906	1588969	88.19%	4.979%
13	13.831	13.798	13.880	VB	127858	1574378	87.38%	4.933%
14	14.935	14.845	14.992	BB	118885	1554075	86.25%	4.869%
15	15.957	15.900	16.010	BB	117520	1477357	81.99%	4.629%
16	16.908	16.842	16.965	BB	102815	1413177	78.43%	4.428%
17	17.796	17.729	17.857	BB	107103	1411056	78.32%	4.421%
18	18.630	18.590	18.690	BB	95648	1341453	74.45%	4.203%
19	19.414	19.305	19.470	BB	77410	1184171	65.72%	3.710%
20	20.154	20.110	20.214	BB	67689	1002661	55.65%	3.142%
21	20.911	20.860	20.987	BB	48675	914301	50.74%	2.865%
22	21.862	21.774	21.947	BB	37160	866175	48.07%	2.714%
Sum of corrected areas:						31916275		

Aliphatic EPH 100725.M Tue Oct 07 09:57:22 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069941.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 19:19
 Operator : YP/AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 07 09:28:58 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:26:41 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.642	945317	5.846 ug/ml
Spiked Amount 50.000		Recovery =	11.69%
12) S 1-chlorooctadecane (S...	13.077	725060	5.800 ug/ml
Spiked Amount 50.000		Recovery =	11.60%
Target Compounds			
1) T n-Nonane (C9)	3.384	738481	5.711 ug/ml
2) T n-Decane (C10)	4.455	768097	5.680 ug/ml
3) T A~Naphthalene (C11.7)	6.048	858039	5.649 ug/ml
4) T n-Dodecane (C12)	6.477	814407	5.675 ug/ml
5) T A~2-methylnaphthalene...	7.106	839181	5.613 ug/ml
6) T n-Tetradecane (C14)	8.274	834987	5.628 ug/ml
7) T n-Hexadecane (C16)	9.877	890828	5.684 ug/ml
8) T n-Octadecane (C18)	11.320	907348	5.742 ug/ml
10) T n-Eicosane (C20)	12.631	864853	5.851 ug/ml
11) T n-Heneicosane (C21)	13.243	838040	5.867 ug/ml
13) T n-Docosane (C22)	13.831	859000	6.160 ug/ml
14) T n-Tetracosane (C24)	14.934	901906	6.766 ug/ml
15) T n-Hexacosane (C26)	15.957	890282	7.089 ug/ml
16) T n-Octacosane (C28)	16.906	879183	7.446 ug/ml
17) T n-Tricontane (C30)	17.796	882722	7.662 ug/ml
18) T n-Dotriacontane (C32)	18.628	847118	7.852 ug/ml
19) T n-Tetratriacontane (C34)	19.412	720186	7.360 ug/ml
20) T n-Hexatriacontane (C36)	20.152	578690	6.748 ug/ml
21) T n-Octatriacontane (C38)	20.910	500729	6.387 ug/ml
22) T n-Tetracontane (C40)	21.856	450964	6.001 ug/ml

(f)=RT Delta > 1/2 Window

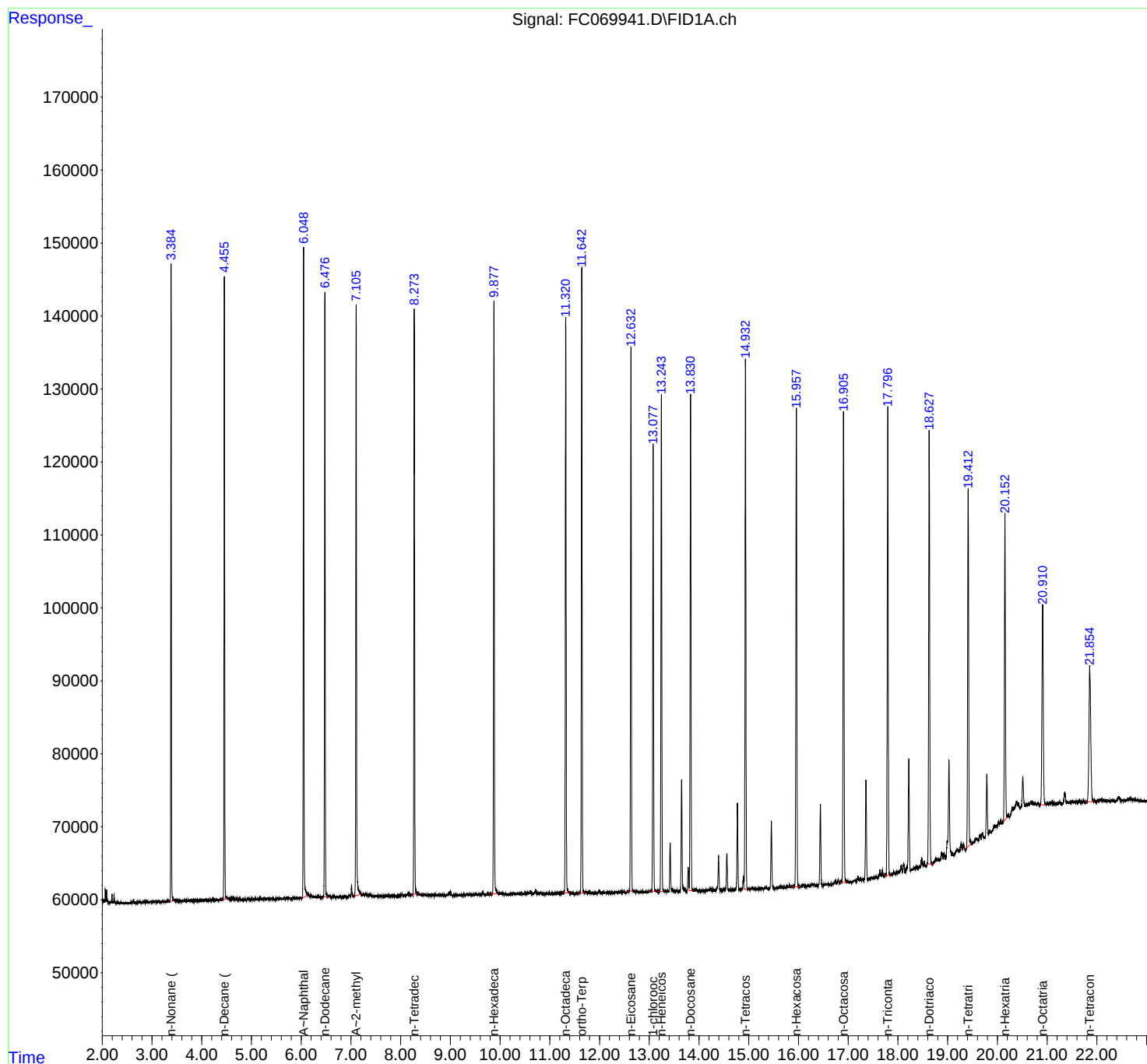
(m)=manual int.

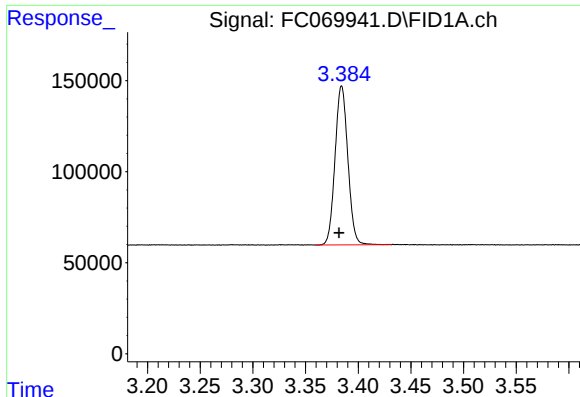
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069941.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 19:19
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 07 09:28:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

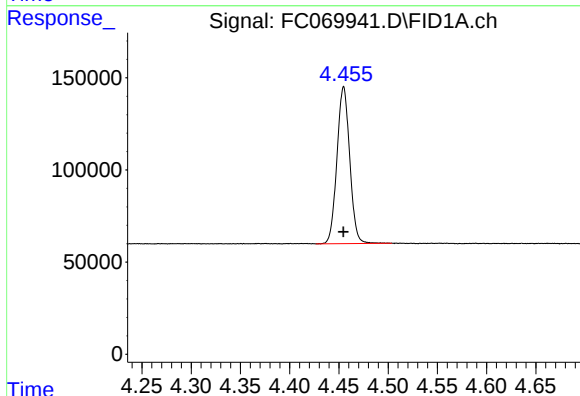




#1 n-Nonane (C9)

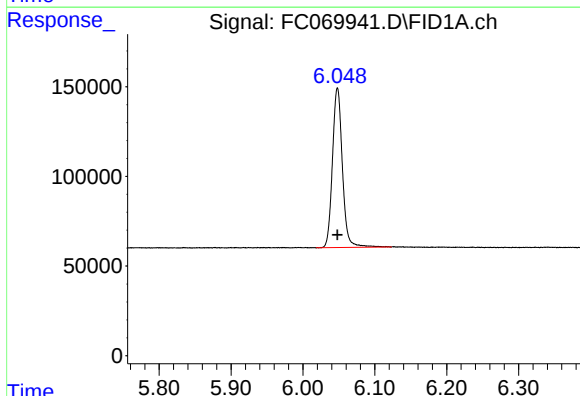
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 738481
Conc: 5.71 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



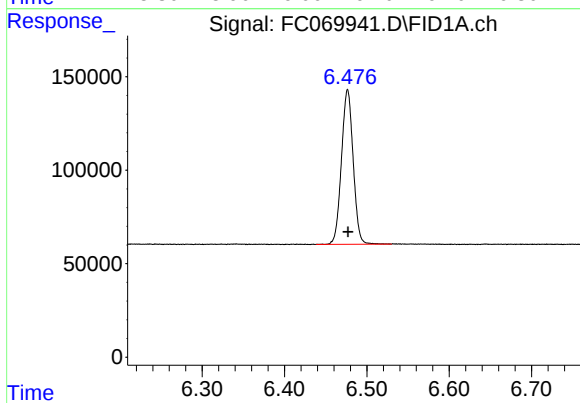
#2 n-Decane (C10)

R.T.: 4.455 min
Delta R.T.: 0.000 min
Response: 768097
Conc: 5.68 ug/ml



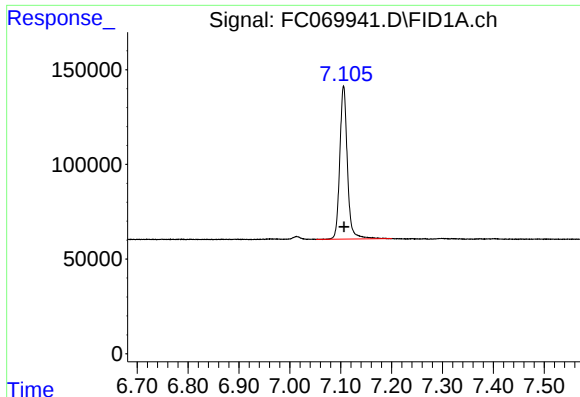
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 858039
Conc: 5.65 ug/ml



#4 n-Dodecane (C12)

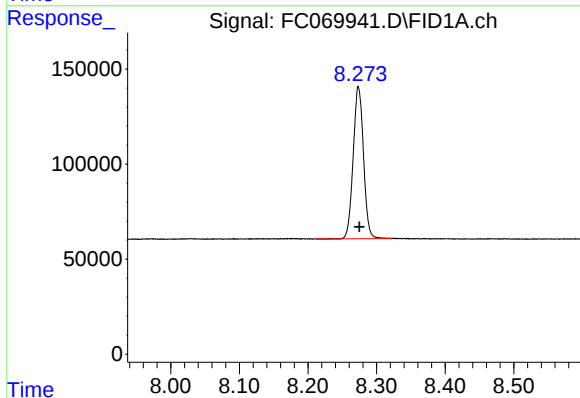
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 814407
Conc: 5.68 ug/ml



#5 A~2-methylnaphthalene (C12.89)

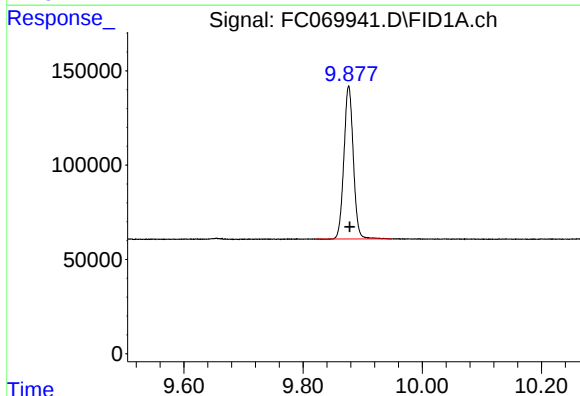
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 839181
Conc: 5.61 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



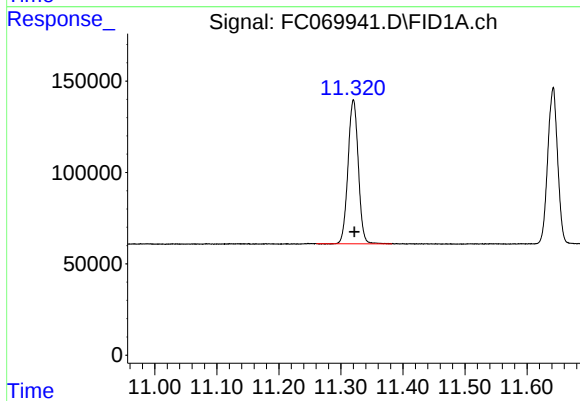
#6 n-Tetradecane (C14)

R.T.: 8.274 min
Delta R.T.: -0.001 min
Response: 834987
Conc: 5.63 ug/ml



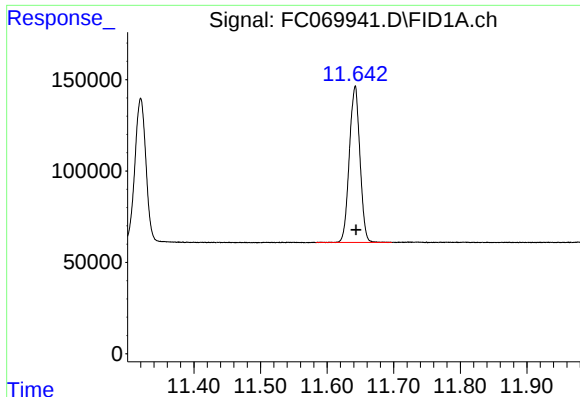
#7 n-Hexadecane (C16)

R.T.: 9.877 min
Delta R.T.: -0.002 min
Response: 890828
Conc: 5.68 ug/ml



#8 n-Octadecane (C18)

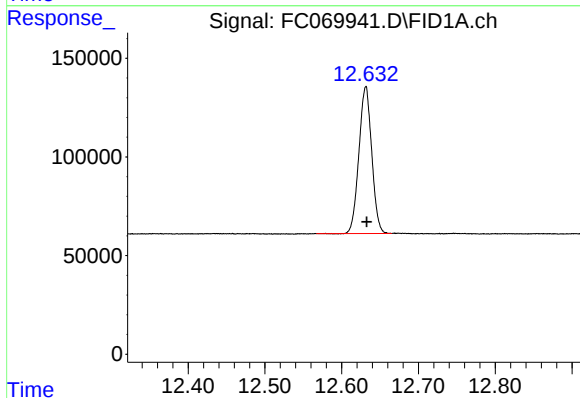
R.T.: 11.320 min
Delta R.T.: -0.002 min
Response: 907348
Conc: 5.74 ug/ml



#9 ortho-Terphenyl (SURR)

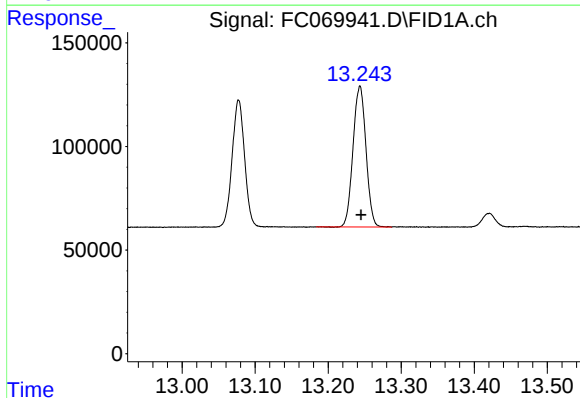
R.T.: 11.642 min
Delta R.T.: -0.002 min
Response: 945317
Conc: 5.85 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



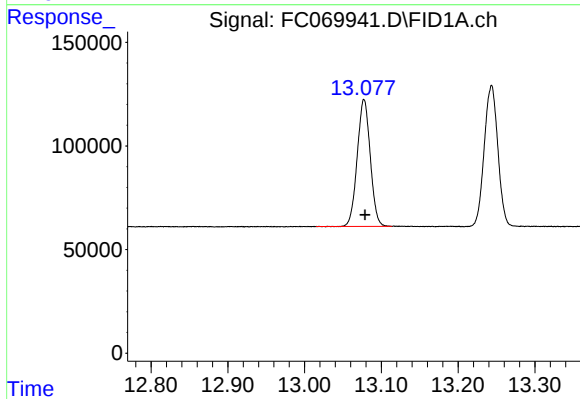
#10 n-Eicosane (C20)

R.T.: 12.631 min
Delta R.T.: -0.001 min
Response: 864853
Conc: 5.85 ug/ml



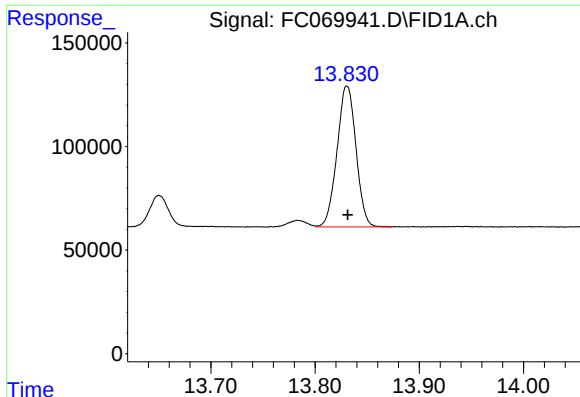
#11 n-Heneicosane (C21)

R.T.: 13.243 min
Delta R.T.: -0.002 min
Response: 838040
Conc: 5.87 ug/ml



#12 1-chlorooctadecane (SURR)

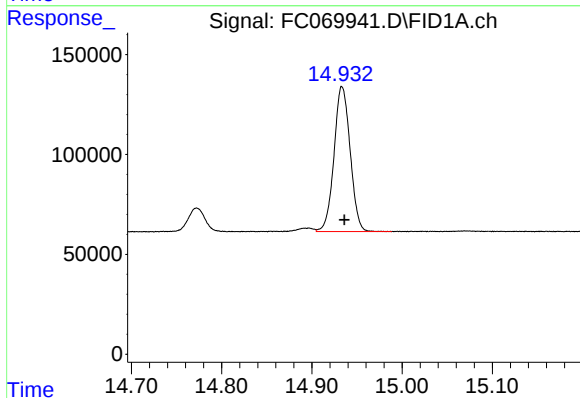
R.T.: 13.077 min
Delta R.T.: -0.002 min
Response: 725060
Conc: 5.80 ug/ml



#13 n-Docosane (C22)

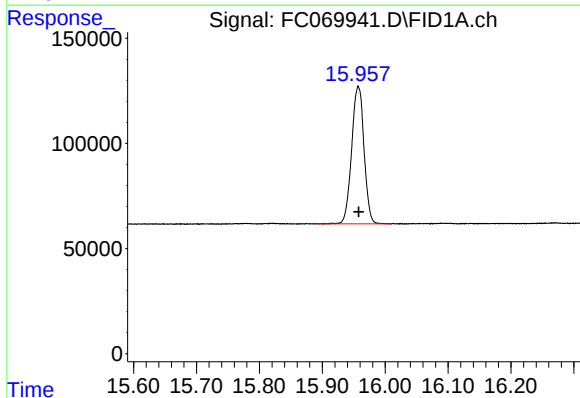
R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 859000
Conc: 6.16 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



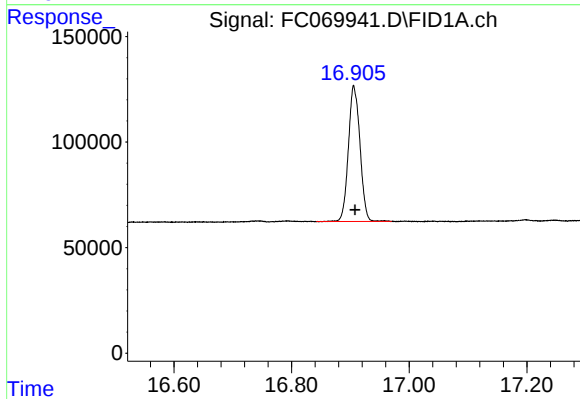
#14 n-Tetracosane (C24)

R.T.: 14.934 min
Delta R.T.: -0.003 min
Response: 901906
Conc: 6.77 ug/ml



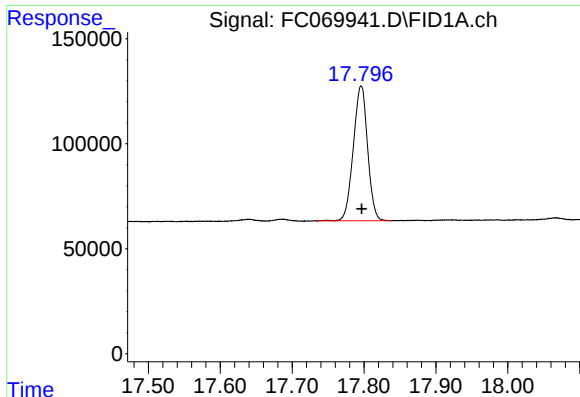
#15 n-Hexacosane (C26)

R.T.: 15.957 min
Delta R.T.: 0.000 min
Response: 890282
Conc: 7.09 ug/ml



#16 n-Octacosane (C28)

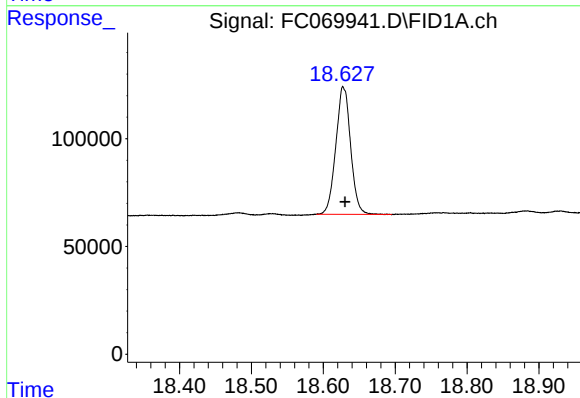
R.T.: 16.906 min
Delta R.T.: -0.002 min
Response: 879183
Conc: 7.45 ug/ml



#17 n-Tricontane (C30)

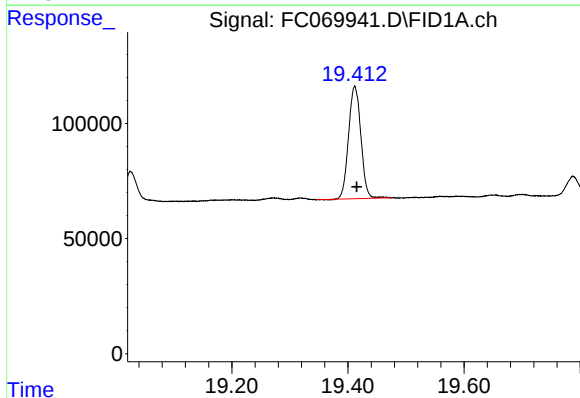
R.T.: 17.796 min
Delta R.T.: -0.001 min
Response: 882722
Conc: 7.66 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



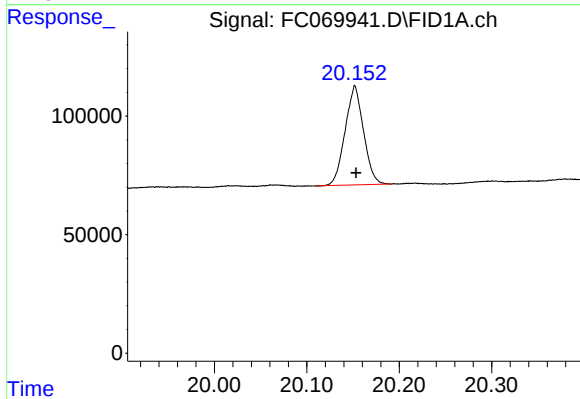
#18 n-Dotriacontane (C32)

R.T.: 18.628 min
Delta R.T.: -0.002 min
Response: 847118
Conc: 7.85 ug/ml



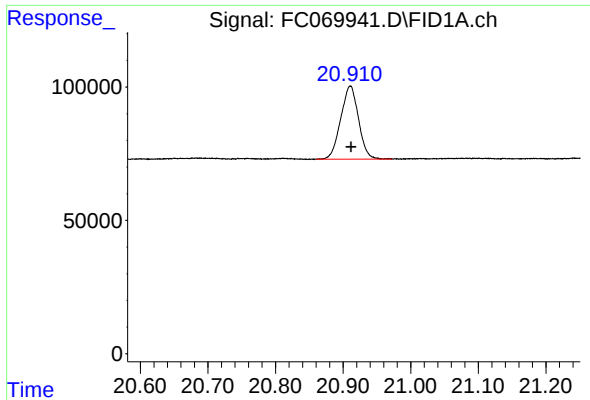
#19 n-Tetratriacontane (C34)

R.T.: 19.412 min
Delta R.T.: -0.003 min
Response: 720186
Conc: 7.36 ug/ml



#20 n-Hexatriacontane (C36)

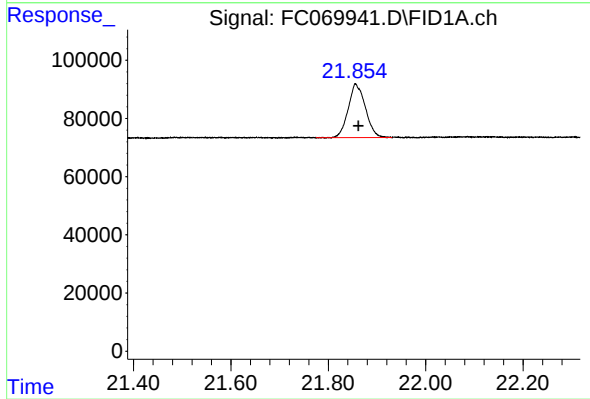
R.T.: 20.152 min
Delta R.T.: -0.001 min
Response: 578690
Conc: 6.75 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.910 min
Delta R.T.: -0.001 min
Response: 500729
Conc: 6.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.856 min
Delta R.T.: -0.005 min
Response: 450964
Conc: 6.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069941.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 19:19
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.360	3.432	BB	87399	738481	78.12%	4.211%
2	4.455	4.427	4.503	BB	85389	768097	81.25%	4.380%
3	6.048	6.018	6.123	BB	89131	858039	90.77%	4.893%
4	6.477	6.438	6.530	BB	82846	814407	86.15%	4.644%
5	7.106	7.052	7.200	BB	80824	839181	88.77%	4.786%
6	8.274	8.212	8.322	BB	79816	834987	88.33%	4.762%
7	9.877	9.822	9.948	BB	81191	890828	94.24%	5.080%
8	11.320	11.260	11.382	BB	78919	907348	95.98%	5.174%
9	11.642	11.583	11.697	BB	85468	945317	100.00%	5.391%
10	12.631	12.567	12.665	BB	74880	864853	91.49%	4.932%
11	13.077	13.015	13.113	BB	61432	725060	76.70%	4.135%
12	13.243	13.183	13.287	BB	68289	838040	88.65%	4.779%
13	13.831	13.801	13.873	VB	68032	859000	90.87%	4.899%
14	14.934	14.905	14.988	VB	72431	901906	95.41%	5.143%
15	15.957	15.890	16.010	BB	65508	890282	94.18%	5.077%
16	16.906	16.842	16.970	BB	63384	879183	93.00%	5.014%
17	17.796	17.733	17.838	BB	64281	882722	93.38%	5.034%
18	18.628	18.590	18.695	BB	58574	847118	89.61%	4.831%
19	19.412	19.345	19.475	BB	48804	720186	76.18%	4.107%
20	20.152	20.110	20.192	BV	41987	578690	61.22%	3.300%
21	20.910	20.860	20.972	BB	27441	500729	52.97%	2.856%
22	21.856	21.775	21.930	BB	18425	450964	47.71%	2.572%
Sum of corrected areas:							17535417	

Aliphatic EPH 100725.M Tue Oct 07 09:57:59 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
 Data File : FC069942.D
 Signal(s) : FID1A.ch
 Acq On : 06 Oct 2025 20:02
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 07 09:37:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.643	3426826	19.515 ug/ml
Spiked Amount 50.000		Recovery =	39.03%
12) S 1-chlorooctadecane (S...	13.078	2637598	19.431 ug/ml
Spiked Amount 50.000		Recovery =	38.86%
Target Compounds			
1) T n-Nonane (C9)	3.384	2690163	19.591 ug/ml
2) T n-Decane (C10)	4.455	2807684	19.530 ug/ml
3) T A~Naphthalene (C11.7)	6.048	3180233	19.678 ug/ml
4) T n-Dodecane (C12)	6.477	2978686	19.433 ug/ml
5) T A~2-methylnaphthalene...	7.106	3136946	19.661 ug/ml
6) T n-Tetradecane (C14)	8.275	3069732	19.301 ug/ml
7) T n-Hexadecane (C16)	9.878	3247204	19.269 ug/ml
8) T n-Octadecane (C18)	11.322	3293110	19.356 ug/ml
10) T n-Eicosane (C20)	12.632	3100336	19.325 ug/ml
11) T n-Heneicosane (C21)	13.245	3008707	19.377 ug/ml
13) T n-Docosane (C22)	13.832	2942368	19.119 ug/ml
14) T n-Tetracosane (C24)	14.936	2823498	18.621 ug/ml
15) T n-Hexacosane (C26)	15.957	2666763	18.425 ug/ml
16) T n-Octacosane (C28)	16.908	2509230	18.143 ug/ml
17) T n-Tricontane (C30)	17.796	2433398	17.823 ug/ml
18) T n-Dotriacontane (C32)	18.630	2267655	17.588 ug/ml
19) T n-Tetratriacontane (C34)	19.413	2049192	17.960 ug/ml
20) T n-Hexatriacontane (C36)	20.154	1789545	18.504 ug/ml
21) T n-Octatriacontane (C38)	20.913	1635409	18.764 ug/ml
22) T n-Tetracontane (C40)	21.863	1551501	18.883 ug/ml

(f)=RT Delta > 1/2 Window

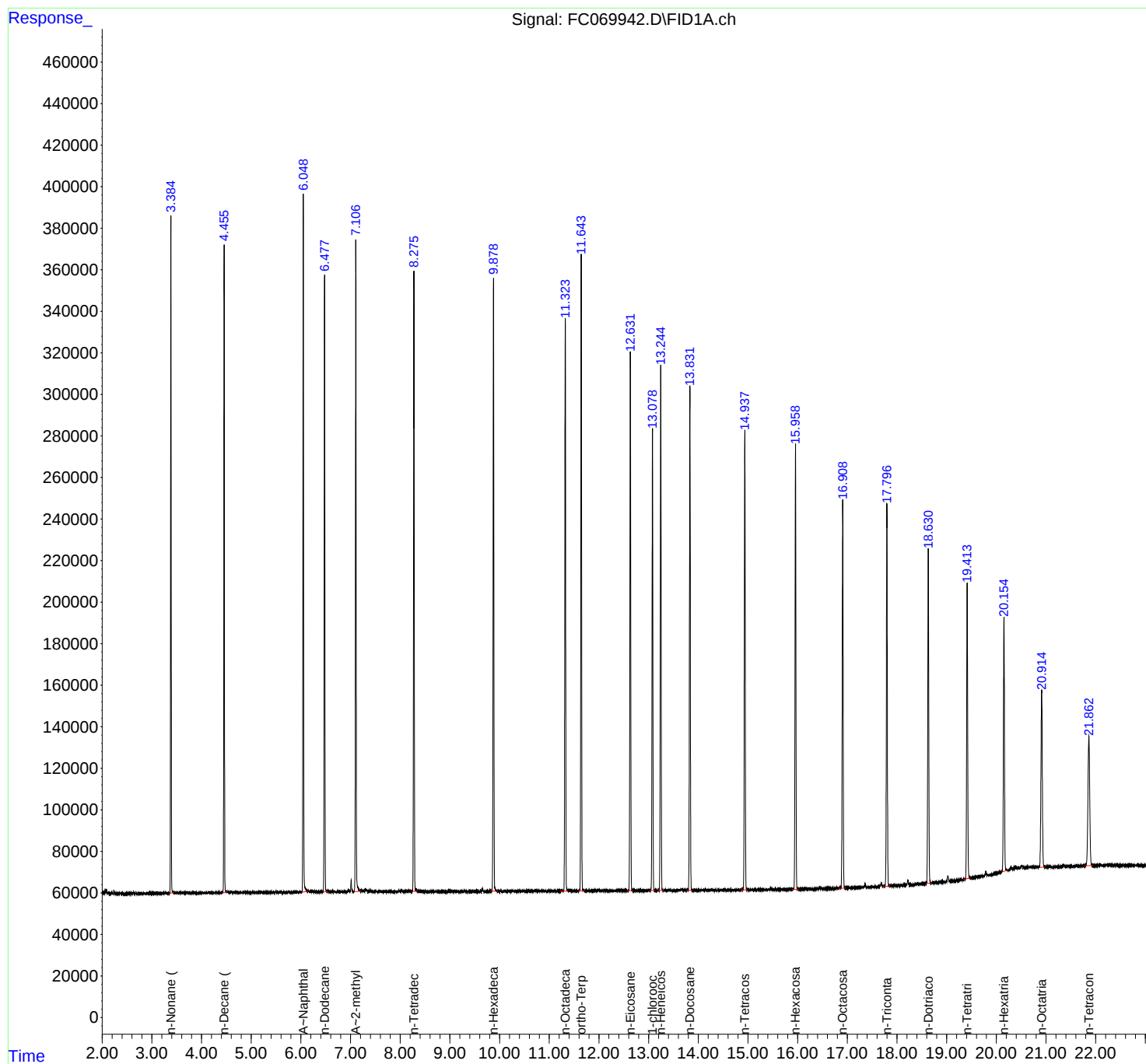
(m)=manual int.

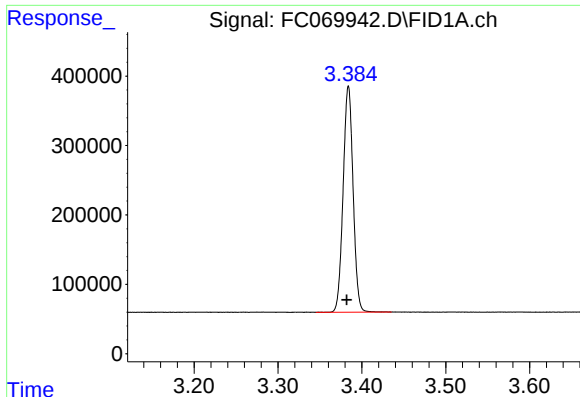
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069942.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 20:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 07 09:37:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

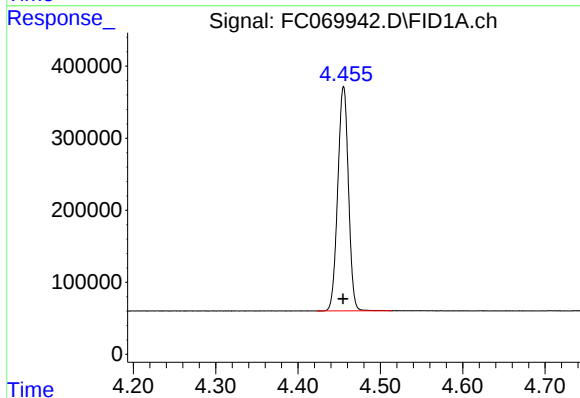




#1 n-Nonane (C9)

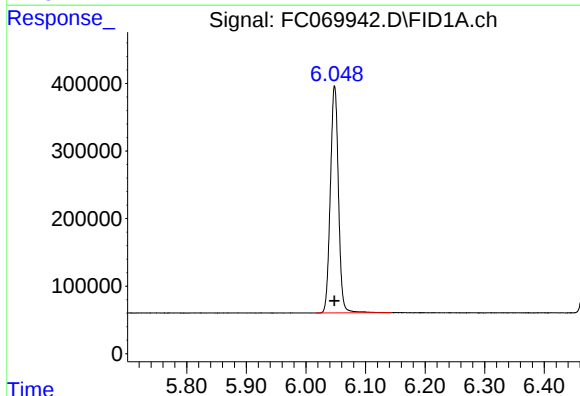
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 2690163
Conc: 19.59 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



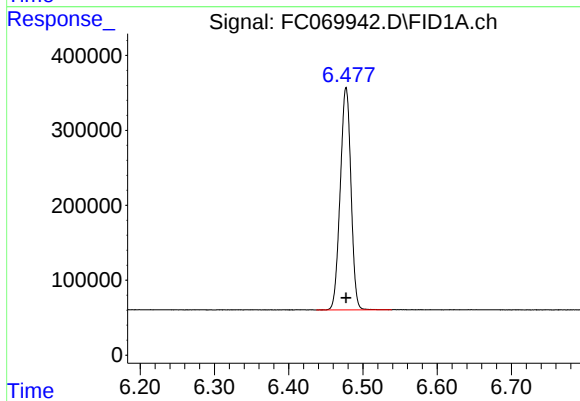
#2 n-Decane (C10)

R.T.: 4.455 min
Delta R.T.: 0.000 min
Response: 2807684
Conc: 19.53 ug/ml



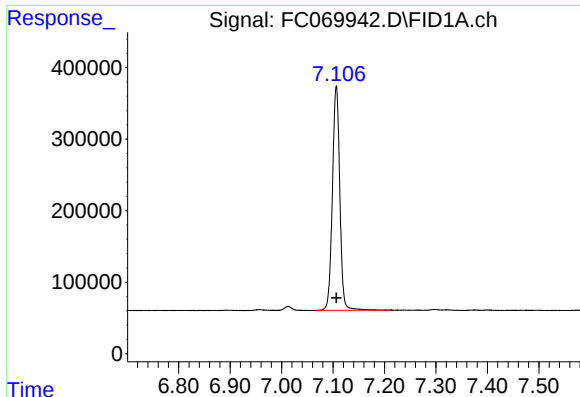
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 3180233
Conc: 19.68 ug/ml



#4 n-Dodecane (C12)

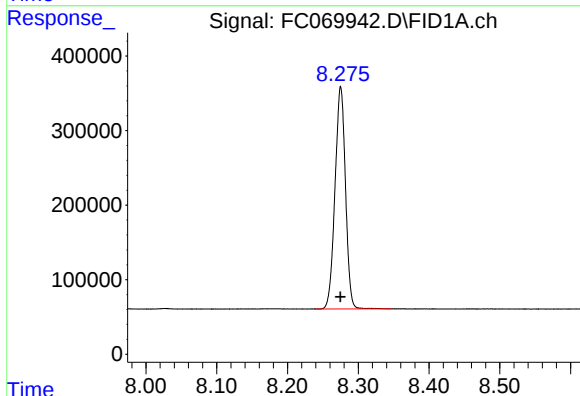
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 2978686
Conc: 19.43 ug/ml



#5 A~2-methylnaphthalene (C12.89)

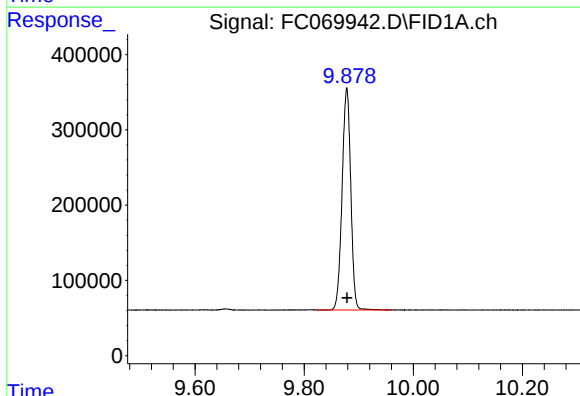
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 3136946
Conc: 19.66 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



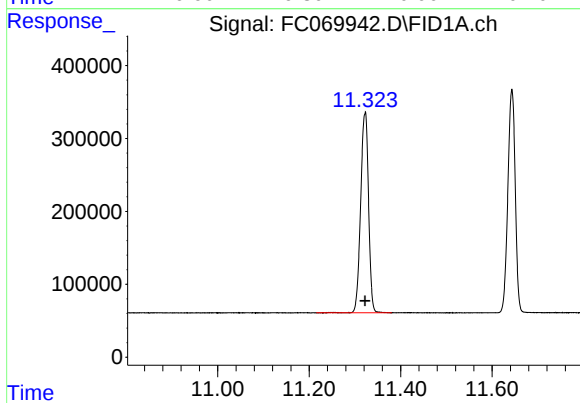
#6 n-Tetradecane (C14)

R.T.: 8.275 min
Delta R.T.: 0.000 min
Response: 3069732
Conc: 19.30 ug/ml



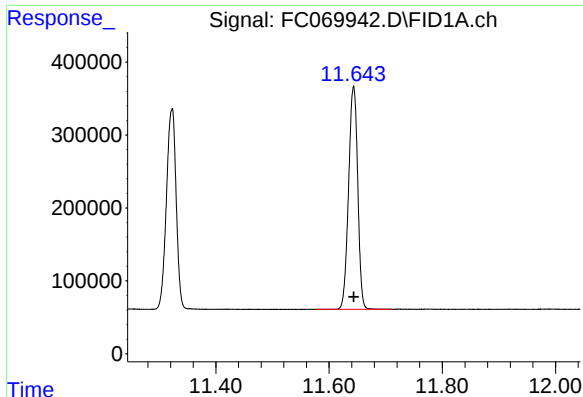
#7 n-Hexadecane (C16)

R.T.: 9.878 min
Delta R.T.: 0.000 min
Response: 3247204
Conc: 19.27 ug/ml



#8 n-Octadecane (C18)

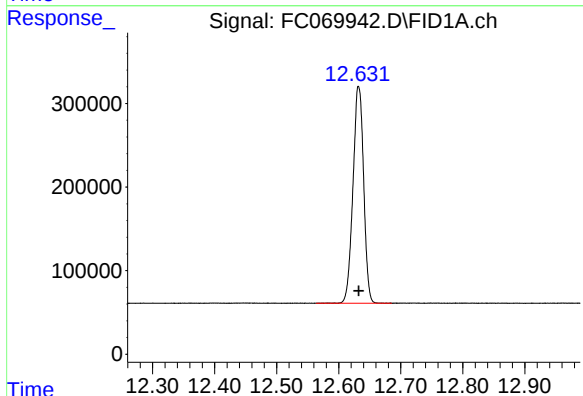
R.T.: 11.322 min
Delta R.T.: 0.000 min
Response: 3293110
Conc: 19.36 ug/ml



#9 ortho-Terphenyl (SURR)

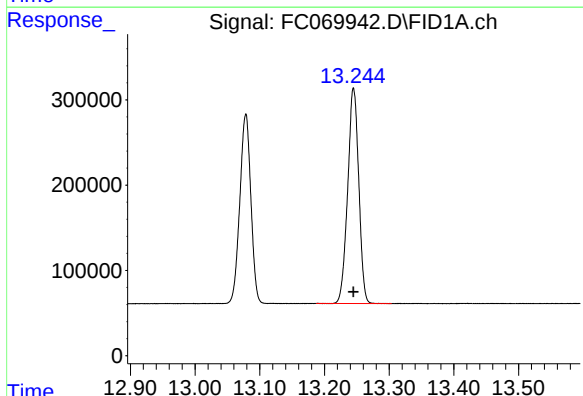
R.T.: 11.643 min
Delta R.T.: 0.000 min
Response: 3426826
Conc: 19.51 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



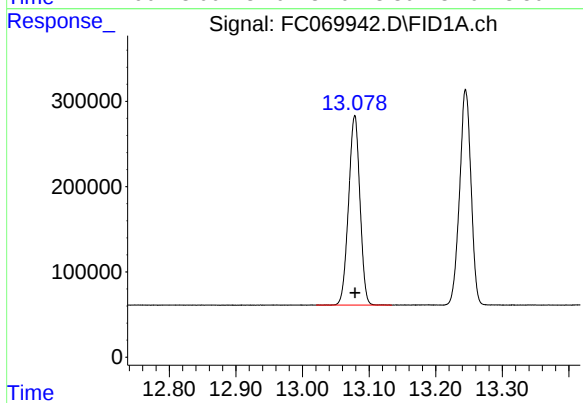
#10 n-Eicosane (C20)

R.T.: 12.632 min
Delta R.T.: 0.000 min
Response: 3100336
Conc: 19.32 ug/ml



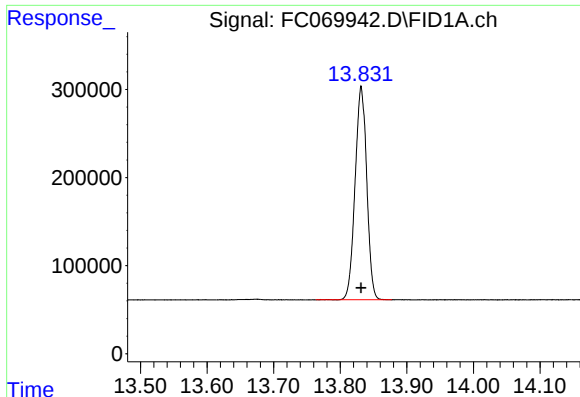
#11 n-Heneicosane (C21)

R.T.: 13.245 min
Delta R.T.: 0.000 min
Response: 3008707
Conc: 19.38 ug/ml



#12 1-chlorooctadecane (SURR)

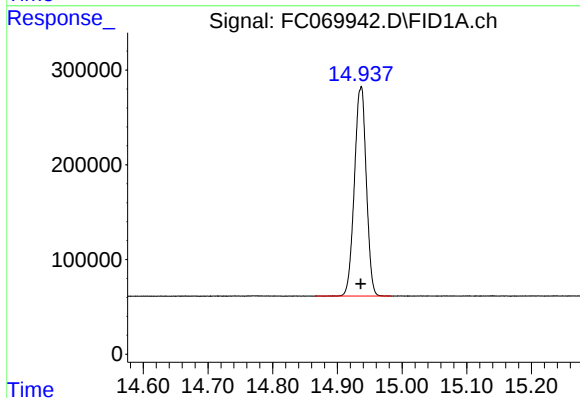
R.T.: 13.078 min
Delta R.T.: 0.000 min
Response: 2637598
Conc: 19.43 ug/ml



#13 n-Docosane (C22)

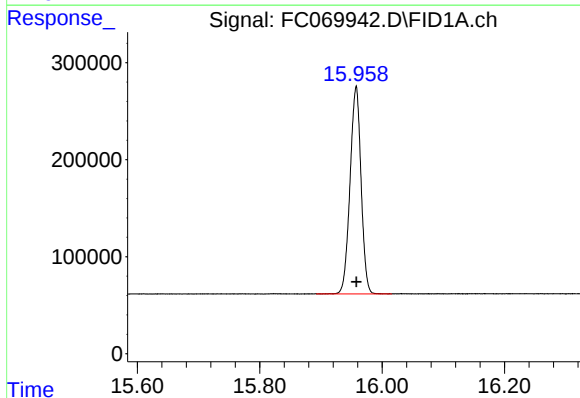
R.T.: 13.832 min
Delta R.T.: 0.000 min
Response: 2942368
Conc: 19.12 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



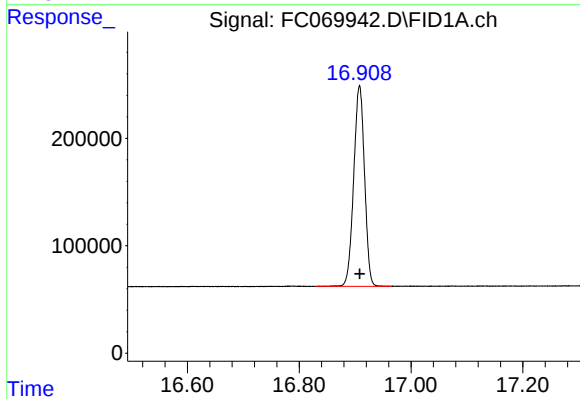
#14 n-Tetracosane (C24)

R.T.: 14.936 min
Delta R.T.: 0.000 min
Response: 2823498
Conc: 18.62 ug/ml



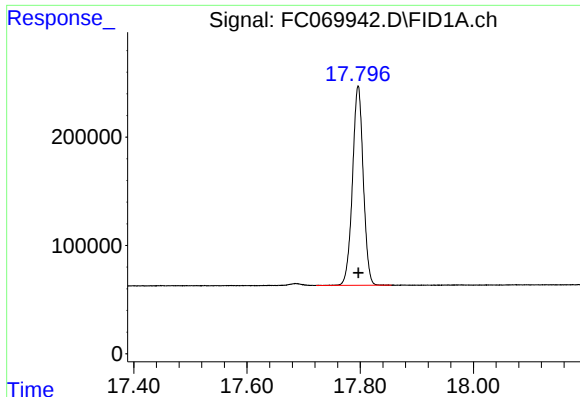
#15 n-Hexacosane (C26)

R.T.: 15.957 min
Delta R.T.: 0.000 min
Response: 2666763
Conc: 18.42 ug/ml



#16 n-Octacosane (C28)

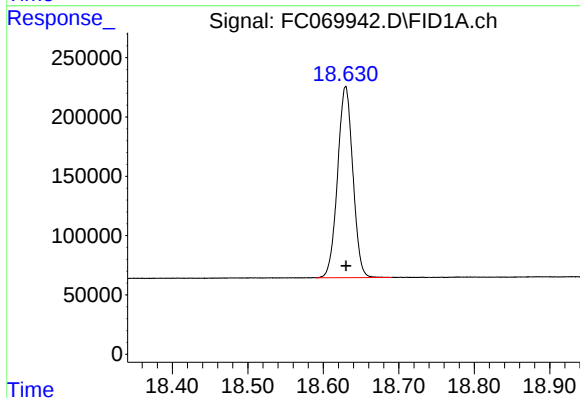
R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 2509230
Conc: 18.14 ug/ml



#17 n-Tricontane (C30)

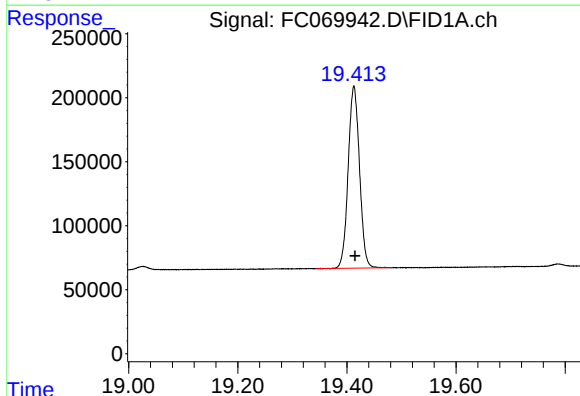
R.T.: 17.796 min
Delta R.T.: 0.000 min
Response: 2433398
Conc: 17.82 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



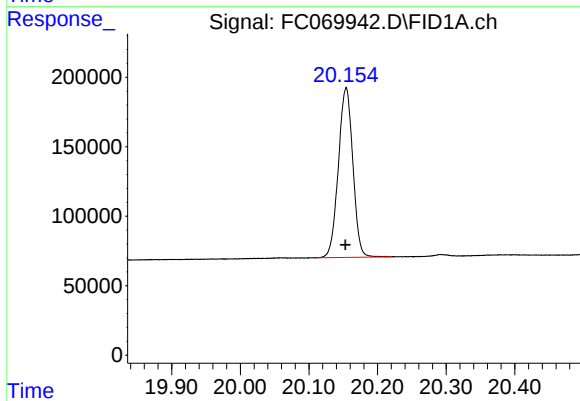
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: 0.000 min
Response: 2267655
Conc: 17.59 ug/ml



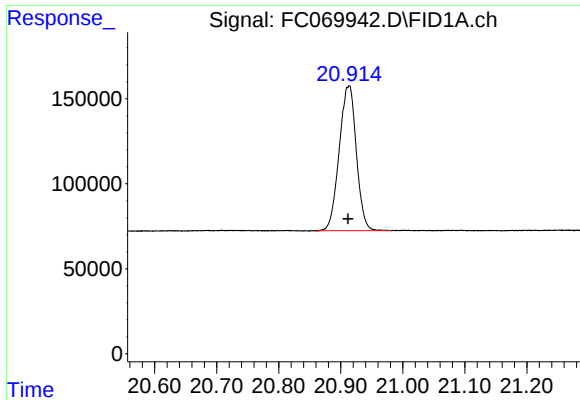
#19 n-Tetratriacontane (C34)

R.T.: 19.413 min
Delta R.T.: -0.002 min
Response: 2049192
Conc: 17.96 ug/ml



#20 n-Hexatriacontane (C36)

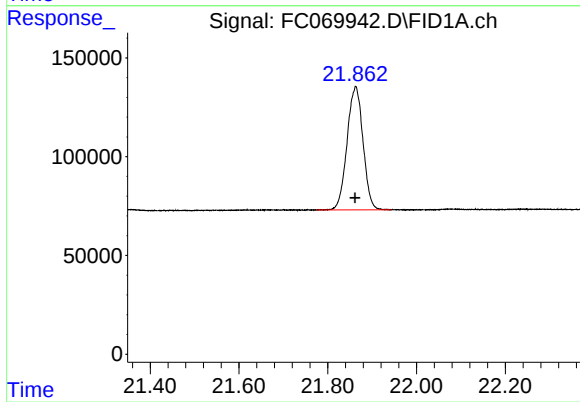
R.T.: 20.154 min
Delta R.T.: 0.000 min
Response: 1789545
Conc: 18.50 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.913 min
Delta R.T.: 0.001 min
Response: 1635409
Conc: 18.76 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.863 min
Delta R.T.: 0.001 min
Response: 1551501
Conc: 18.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069942.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 20:02
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.384	3.345	3.435	BB	326047	2690163	78.50%	4.541%
2	4.455	4.422	4.514	BB	312168	2807684	81.93%	4.739%
3	6.048	6.017	6.144	BB	335724	3180233	92.80%	5.368%
4	6.477	6.437	6.539	BB	296904	2978686	86.92%	5.028%
5	7.106	7.067	7.214	BB	314883	3136946	91.54%	5.295%
6	8.275	8.240	8.347	BB	298279	3069732	89.58%	5.181%
7	9.878	9.822	9.960	BB	295818	3247204	94.76%	5.481%
8	11.322	11.215	11.380	BB	274076	3293110	96.10%	5.558%
9	11.643	11.577	11.710	BB	306886	3426826	100.00%	5.784%
10	12.632	12.564	12.685	BB	259116	3100336	90.47%	5.233%
11	13.078	13.020	13.134	BB	222898	2637598	76.97%	4.452%
12	13.245	13.187	13.304	BB	252002	3008707	87.80%	5.078%
13	13.832	13.764	13.877	BB	241087	2942368	85.86%	4.966%
14	14.936	14.867	14.984	BB	219598	2823498	82.39%	4.766%
15	15.957	15.892	16.015	BB	213617	2666763	77.82%	4.501%
16	16.908	16.830	16.965	BB	186423	2509230	73.22%	4.235%
17	17.796	17.722	17.855	BB	184577	2433398	71.01%	4.107%
18	18.630	18.590	18.690	BB	161232	2267655	66.17%	3.828%
19	19.413	19.344	19.482	BB	142309	2049192	59.80%	3.459%
20	20.154	20.110	20.220	BB	121981	1789545	52.22%	3.021%
21	20.913	20.860	20.982	BB	84630	1635409	47.72%	2.760%
22	21.863	21.774	21.944	BB	62588	1551501	45.28%	2.619%
Sum of corrected areas:							59245785	

Aliphatic EPH 100725.M Tue Oct 07 09:58:19 2025

Initial Calibration Report for SequenceID : FE103025AL

AreaCount

Parameter Range	FE056575.D	FE056576.D	FE056577.D	FE056578.D	FE056579.D	
Aliphatic C9-C12	47378340.000	25372826.000	10134874.000	5323968.000	2735296.000	
Aliphatic C12-C16	32958436.000	17867364.000	7039199.000	3707774.000	1889371.000	
Aliphatic C16-C21	50634896.000	27807189.000	10962966.000	5844076.000	3012669.000	
Aliphatic C21-C28	65391355.000	36849784.000	14322959.000	8150425.000	4666116.000	
Aliphatic C28-C40	76863576.000	43549713.000	17723612.000	10141838.000	6197225.000	
Aliphatic EPH	273226603.000	151446876.000	60183610.000	33168081.000	18500677.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	171162.641333	5.459				
Aliphatic C12-C16	178754.319	5.236				
Aliphatic C16-C21	186505.4959998	6.59				
Aliphatic C21-C28	192766.144	13.927				
Aliphatic C28-C40	159314.647333	18.927				
Aliphatic EPH	175414.750555	11.628				

Concentration

Parameter Range	FE056575.D	FE056576.D	FE056577.D	FE056578.D	FE056579.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FE056575.D	FE056576.D	FE056577.D	FE056578.D	FE056579.D	
Aliphatic C9-C12	157927.800000	169152.173333	168914.566666	177465.600000	182353.066666	
Aliphatic C12-C16	164792.180000	178673.640000	175979.975000	185388.700000	188937.100000	
Aliphatic C16-C21	168782.986666	185381.260000	182716.100000	194802.533333	200844.600000	

Initial Calibration Report for SequenceID : FE103025AL

Aliphatic C21-C28	163478.387500	184248.920000	179036.987500	203760.625000	233305.800000	
Aliphatic C28-C40	128105.960000	145165.710000	147696.766666	169030.633333	206574.166666	
Aliphatic EPH	151792.557222	168274.306666	167176.694444	184267.116666	205563.077777	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056575.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 10:20
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 30 12:03:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 11:59:52 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.992	19059851	96.235 ug/ml
Spiked Amount 50.000		Recovery =	192.47%
12) S 1-chlorooctadecane (S...	13.427	14749289	96.361 ug/ml
Spiked Amount 50.000		Recovery =	192.72%
Target Compounds			
1) T n-Nonane (C9)	3.337	15510371	96.767 ug/ml
2) T n-Decane (C10)	4.591	15797359	96.498 ug/ml
3) T A~Naphthalene (C11.7)	6.308	17418486	97.460 ug/ml
4) T n-Dodecane (C12)	6.765	16070610	96.653 ug/ml
5) T A~2-methylnaphthalene...	7.409	16955970	98.036 ug/ml
6) T n-Tetradecane (C14)	8.601	16108586	96.787 ug/ml
7) T n-Hexadecane (C16)	10.215	16849850	96.650 ug/ml
8) T n-Octadecane (C18)	11.666	17249418	96.237 ug/ml
10) T n-Eicosane (C20)	12.979	16787284	95.930 ug/ml
11) T n-Heneicosane (C21)	13.593	16598194	95.935 ug/ml
13) T n-Docosane (C22)	14.181	16594646	95.890 ug/ml
14) T n-Tetracosane (C24)	15.288	16611261	95.631 ug/ml
15) T n-Hexacosane (C26)	16.313	16325668	95.495 ug/ml
16) T n-Octacosane (C28)	17.266	15859780	94.791 ug/ml
17) T n-Tricontane (C30)	18.155	15787066	93.066 ug/ml
18) T n-Dotriacontane (C32)	18.990	14882432	91.297 ug/ml
19) T n-Tetratriacontane (C34)	19.776	13398021	91.103 ug/ml
20) T n-Hexatriacontane (C36)	20.516	11781393	92.518 ug/ml
21) T n-Octatriacontane (C38)	21.272	10906555	95.307 ug/ml
22) T n-Tetracontane (C40)	22.223	10108109	95.430 ug/ml

(f)=RT Delta > 1/2 Window

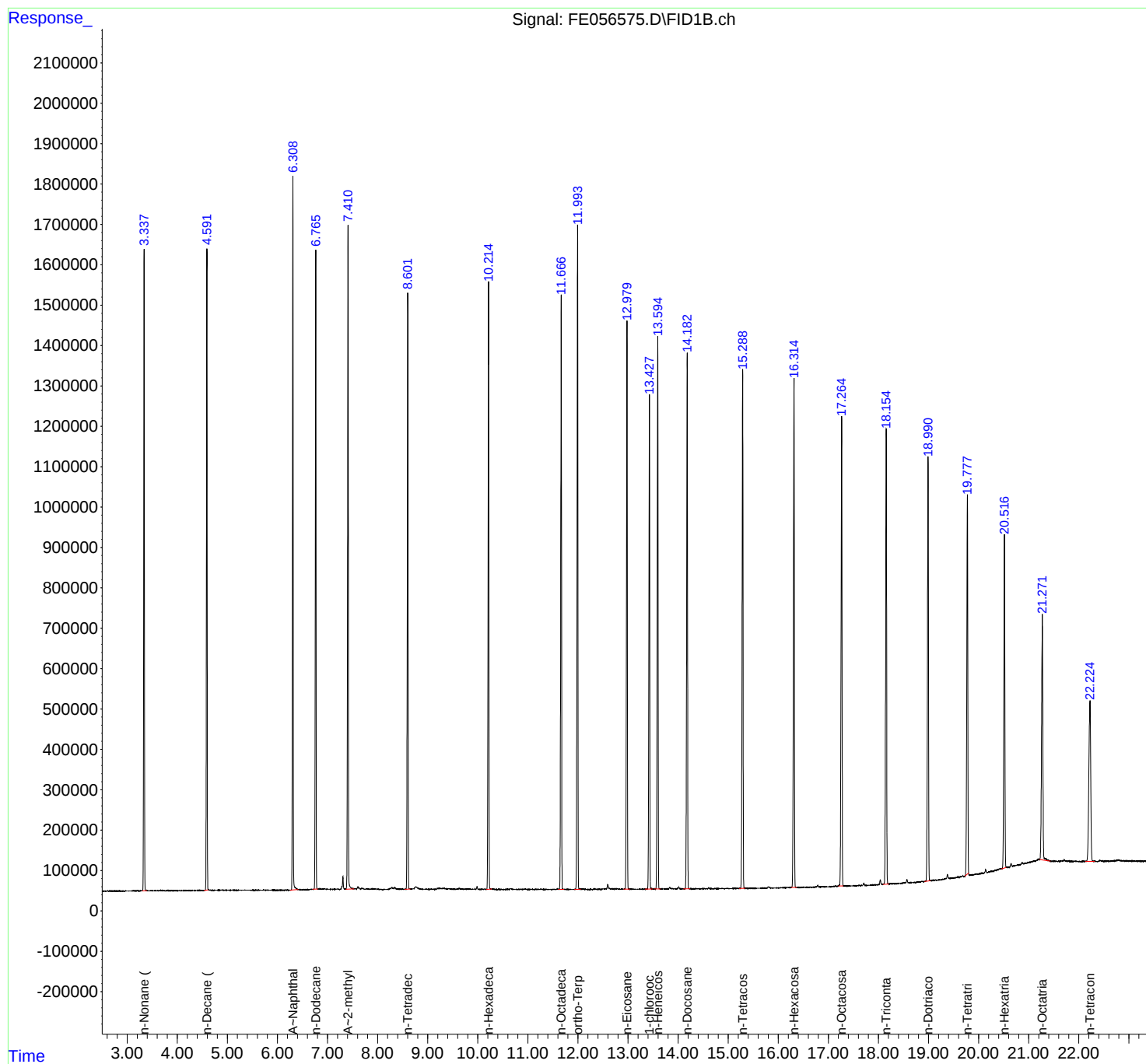
(m)=manual int.

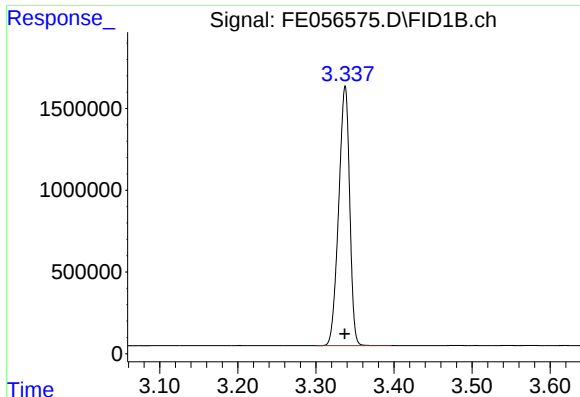
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056575.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 10:20
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 30 12:03:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 11:59:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

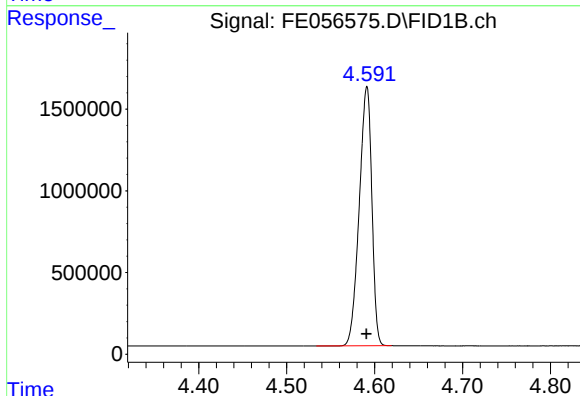




#1 n-Nonane (C9)

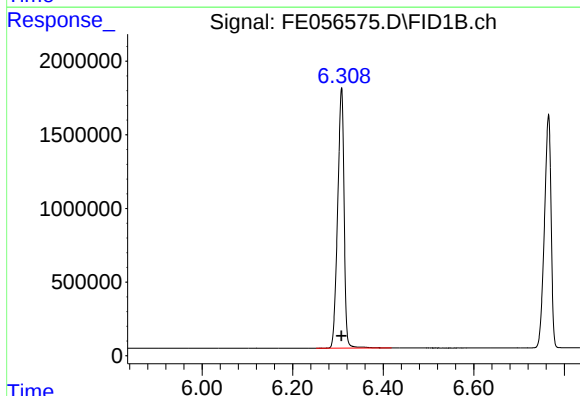
R.T.: 3.337 min
Delta R.T.: 0.000 min
Response: 15510371
Conc: 96.77 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



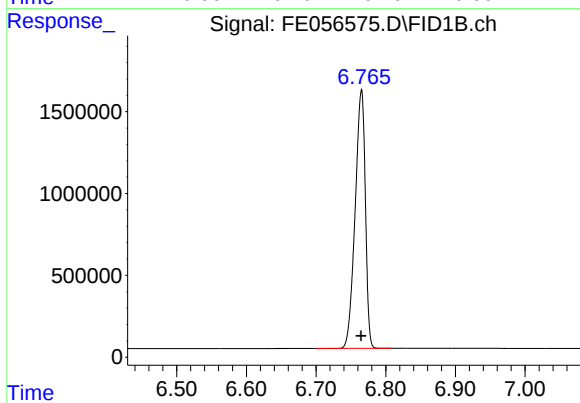
#2 n-Decane (C10)

R.T.: 4.591 min
Delta R.T.: 0.000 min
Response: 15797359
Conc: 96.50 ug/ml



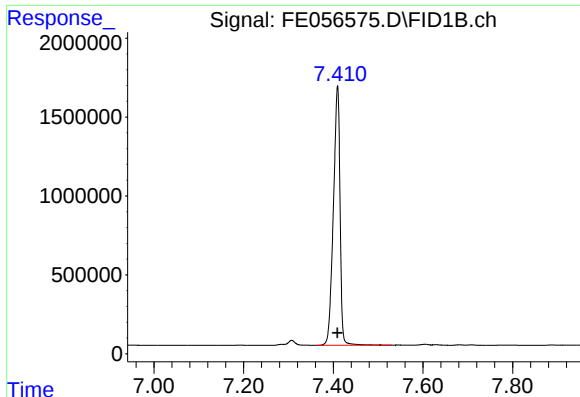
#3 A~Naphthalene (C11.7)

R.T.: 6.308 min
Delta R.T.: 0.000 min
Response: 17418486
Conc: 97.46 ug/ml



#4 n-Dodecane (C12)

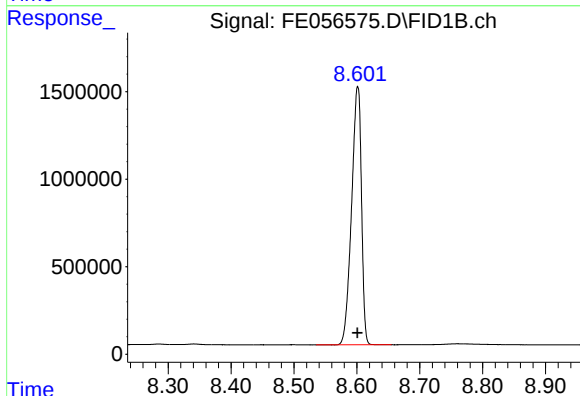
R.T.: 6.765 min
Delta R.T.: 0.000 min
Response: 16070610
Conc: 96.65 ug/ml



#5 A~2-methylnaphthalene (C12.89)

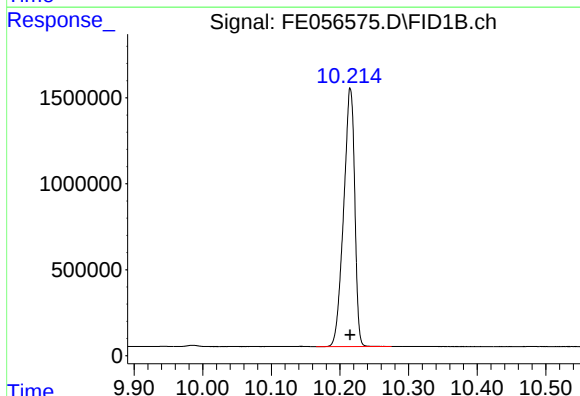
R.T.: 7.409 min
Delta R.T.: 0.000 min
Response: 16955970
Conc: 98.04 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



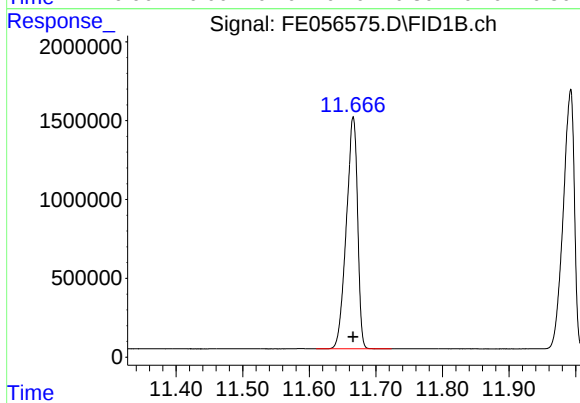
#6 n-Tetradecane (C14)

R.T.: 8.601 min
Delta R.T.: 0.000 min
Response: 16108586
Conc: 96.79 ug/ml



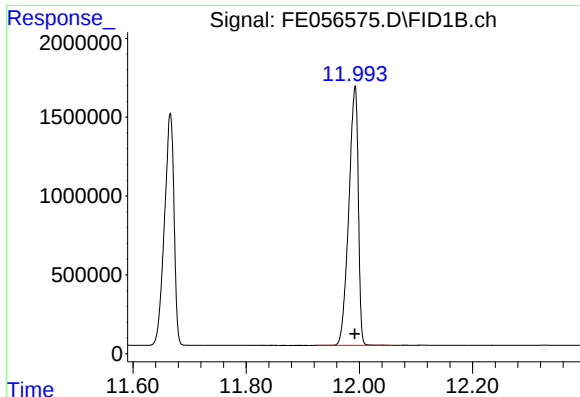
#7 n-Hexadecane (C16)

R.T.: 10.215 min
Delta R.T.: 0.000 min
Response: 16849850
Conc: 96.65 ug/ml



#8 n-Octadecane (C18)

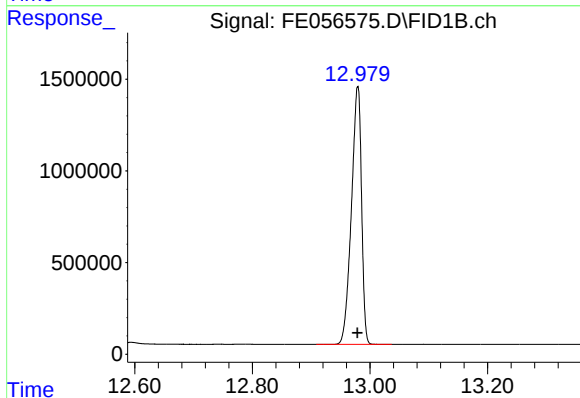
R.T.: 11.666 min
Delta R.T.: 0.000 min
Response: 17249418
Conc: 96.24 ug/ml



#9 ortho-Terphenyl (SURR)

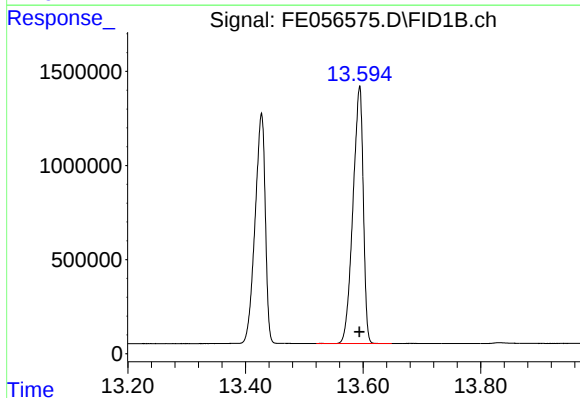
R.T.: 11.992 min
Delta R.T.: 0.000 min
Response: 19059851
Conc: 96.24 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



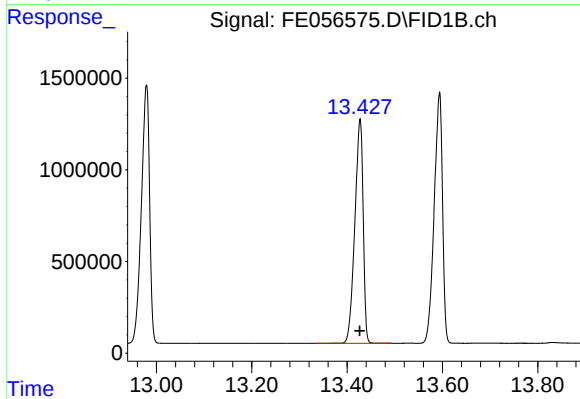
#10 n-Eicosane (C20)

R.T.: 12.979 min
Delta R.T.: 0.000 min
Response: 16787284
Conc: 95.93 ug/ml



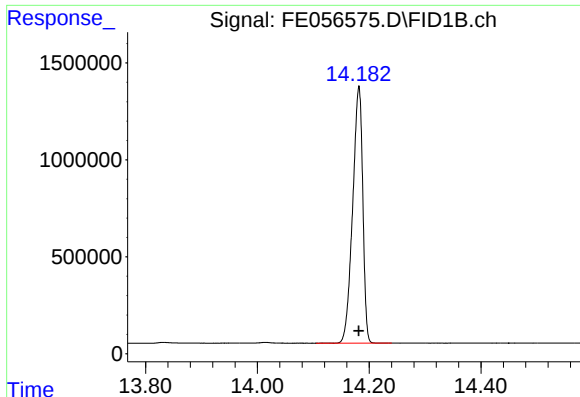
#11 n-Heneicosane (C21)

R.T.: 13.593 min
Delta R.T.: 0.000 min
Response: 16598194
Conc: 95.93 ug/ml



#12 1-chlorooctadecane (SURR)

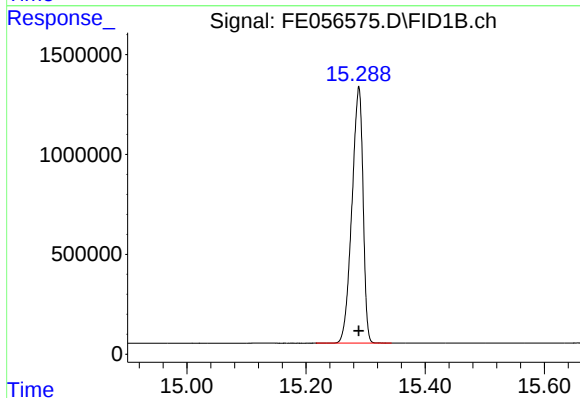
R.T.: 13.427 min
Delta R.T.: 0.000 min
Response: 14749289
Conc: 96.36 ug/ml



#13 n-Docosane (C22)

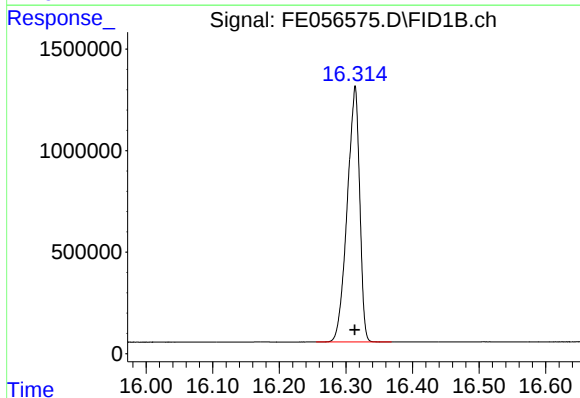
R.T.: 14.181 min
Delta R.T.: 0.000 min
Response: 16594646
Conc: 95.89 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



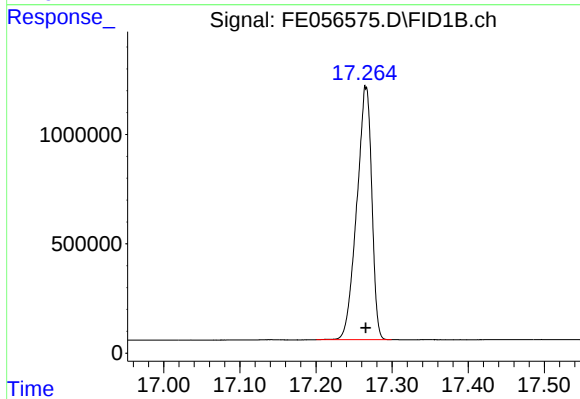
#14 n-Tetracosane (C24)

R.T.: 15.288 min
Delta R.T.: 0.000 min
Response: 16611261
Conc: 95.63 ug/ml



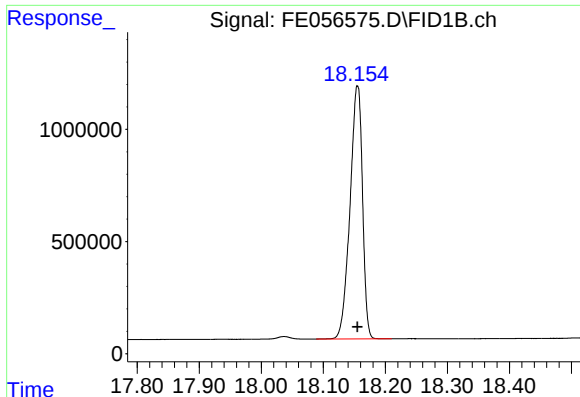
#15 n-Hexacosane (C26)

R.T.: 16.313 min
Delta R.T.: 0.000 min
Response: 16325668
Conc: 95.50 ug/ml



#16 n-Octacosane (C28)

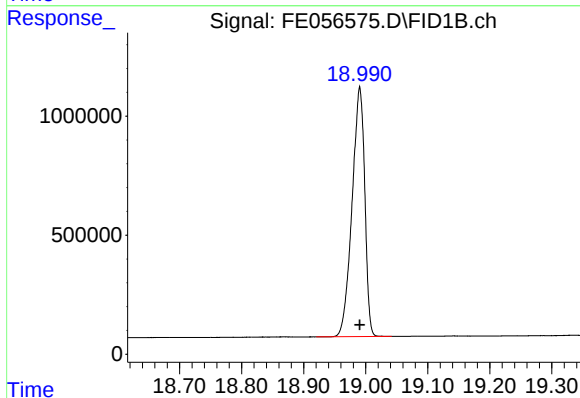
R.T.: 17.266 min
Delta R.T.: 0.000 min
Response: 15859780
Conc: 94.79 ug/ml



#17 n-Tricontane (C30)

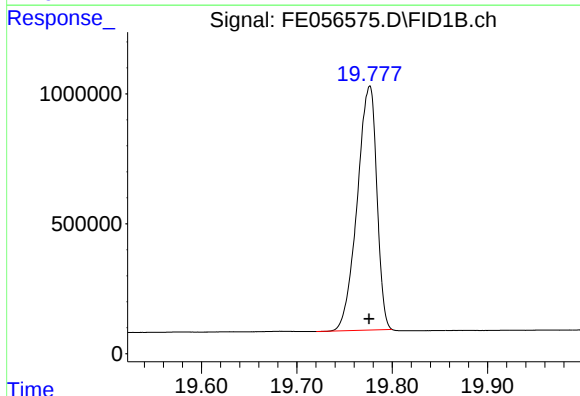
R.T.: 18.155 min
Delta R.T.: 0.000 min
Response: 15787066
Conc: 93.07 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



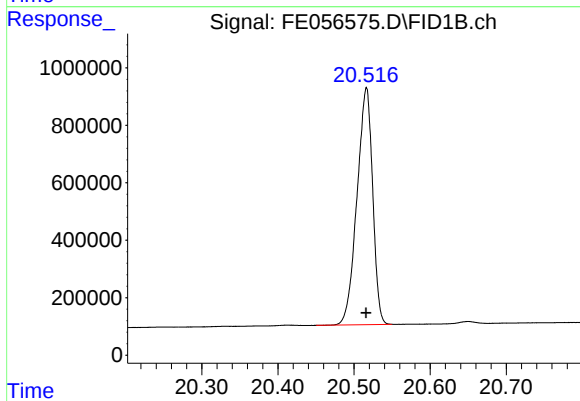
#18 n-Dotriacontane (C32)

R.T.: 18.990 min
Delta R.T.: 0.000 min
Response: 14882432
Conc: 91.30 ug/ml



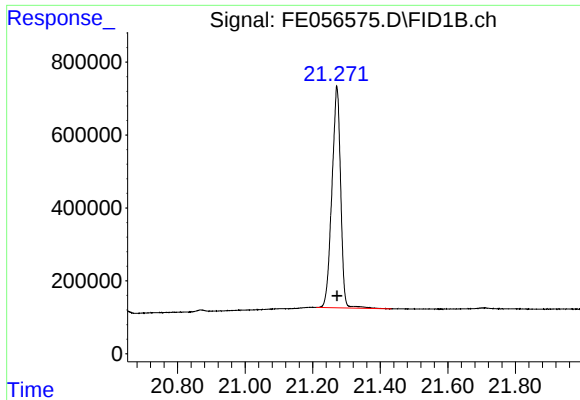
#19 n-Tetratriacontane (C34)

R.T.: 19.776 min
Delta R.T.: 0.000 min
Response: 13398021
Conc: 91.10 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.516 min
Delta R.T.: 0.000 min
Response: 11781393
Conc: 92.52 ug/ml



#21 n-Octatriacontane (C38)

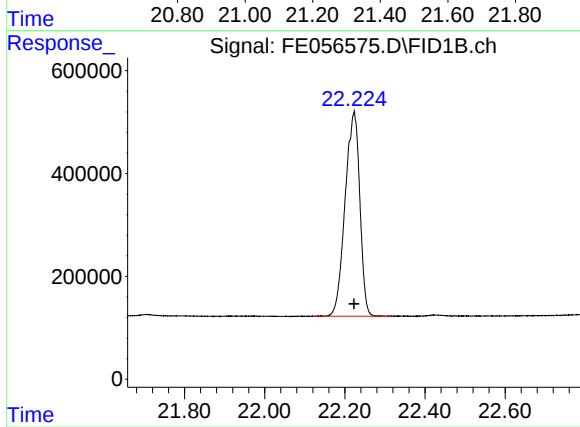
R.T.: 21.272 min
Delta R.T.: 0.000 min
Response: 10906555
Conc: 95.31 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.223 min
Delta R.T.: 0.000 min
Response: 10108109
Conc: 95.43 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056575.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 10:20
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.337	3.300	3.397	BB	1587559	15510371	81.38%	4.543%
2	4.591	4.534	4.619	BBA	1581962	15797359	82.88%	4.627%
3	6.308	6.252	6.419	BB	1757870	17418486	91.39%	5.102%
4	6.765	6.700	6.809	BB	1584765	16070610	84.32%	4.707%
5	7.409	7.362	7.530	PV	1636096	16955970	88.96%	4.966%
6	8.601	8.535	8.655	BB	1480313	16108586	84.52%	4.718%
7	10.215	10.165	10.275	BB	1502827	16849850	88.40%	4.935%
8	11.666	11.610	11.724	BB	1469692	17249418	90.50%	5.052%
9	11.992	11.924	12.057	BB	1639468	19059851	100.00%	5.583%
10	12.979	12.909	13.037	BB	1409836	16787284	88.08%	4.917%
11	13.427	13.335	13.494	BB	1223044	14749289	77.38%	4.320%
12	13.593	13.520	13.649	BB	1361908	16598194	87.08%	4.862%
13	14.181	14.105	14.240	BB	1330972	16594646	87.07%	4.861%
14	15.288	15.217	15.344	BB	1288586	16611261	87.15%	4.865%
15	16.313	16.255	16.369	BB	1263736	16325668	85.65%	4.782%
16	17.266	17.200	17.299	BBA	1155432	15859780	83.21%	4.645%
17	18.155	18.089	18.210	BB	1127298	15787066	82.83%	4.624%
18	18.990	18.920	19.042	BB	1047781	14882432	78.08%	4.359%
19	19.776	19.720	19.799	BBA	935373	13398021	70.29%	3.924%
20	20.516	20.450	20.549	BBA	822409	11781393	61.81%	3.451%
21	21.272	21.210	21.434	BB	606103	10906555	57.22%	3.195%
22	22.223	22.129	22.317	BB	398455	10108109	53.03%	2.961%
Sum of corrected areas:						341410195		

Aliphatic EPH 103025.M Thu Oct 30 12:55:02 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056576.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 10:50
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 30 12:05:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 11:59:52 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.985	10390390	51.615 ug/ml
Spiked Amount 50.000		Recovery =	103.23%
12) S 1-chlorooctadecane (S...	13.422	8069798	51.782 ug/ml
Spiked Amount 50.000		Recovery =	103.56%
Target Compounds			
1) T n-Nonane (C9)	3.334	8283699	51.108 ug/ml
2) T n-Decane (C10)	4.587	8458707	51.101 ug/ml
3) T A~Naphthalene (C11.7)	6.303	9255687	51.178 ug/ml
4) T n-Dodecane (C12)	6.761	8630420	51.255 ug/ml
5) T A~2-methylnaphthalene...	7.404	9018328	51.408 ug/ml
6) T n-Tetradecane (C14)	8.597	8702299	51.502 ug/ml
7) T n-Hexadecane (C16)	10.210	9165065	51.685 ug/ml
8) T n-Octadecane (C18)	11.660	9466424	51.842 ug/ml
10) T n-Eicosane (C20)	12.974	9224749	51.777 ug/ml
11) T n-Heneicosane (C21)	13.588	9116016	51.761 ug/ml
13) T n-Docosane (C22)	14.176	9188407	52.021 ug/ml
14) T n-Tetracosane (C24)	15.283	9376021	52.583 ug/ml
15) T n-Hexacosane (C26)	16.307	9244371	52.644 ug/ml
16) T n-Octacosane (C28)	17.261	9040985	52.620 ug/ml
17) T n-Tricontane (C30)	18.150	9116641	52.435 ug/ml
18) T n-Dotriacontane (C32)	18.985	8697901	52.190 ug/ml
19) T n-Tetratriacontane (C34)	19.770	7726773	51.665 ug/ml
20) T n-Hexatriacontane (C36)	20.510	6593672	51.172 ug/ml
21) T n-Octatriacontane (C38)	21.266	5889118	50.965 ug/ml
22) T n-Tetracontane (C40)	22.214	5525608	51.424 ug/ml

(f)=RT Delta > 1/2 Window

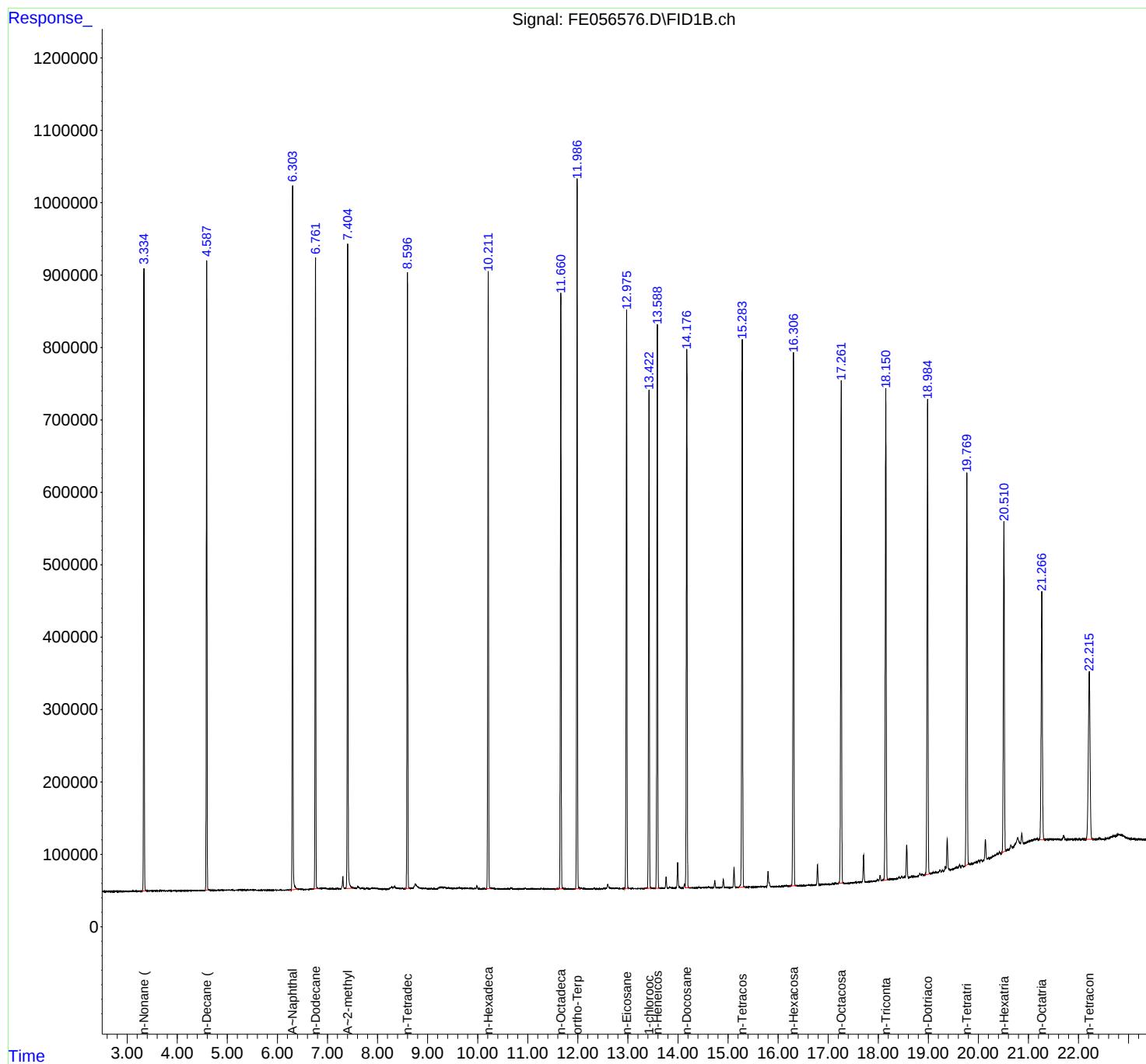
(m)=manual int.

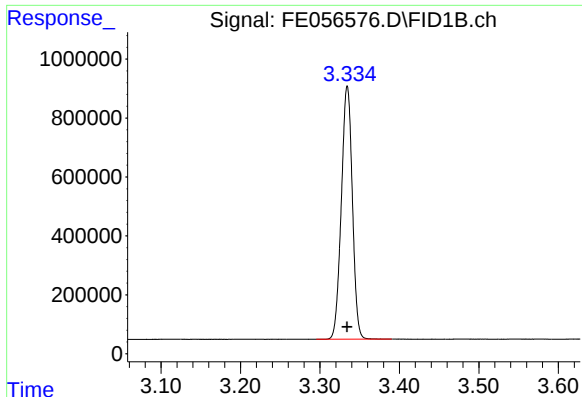
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056576.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 10:50
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 30 12:05:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 11:59:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 uL
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

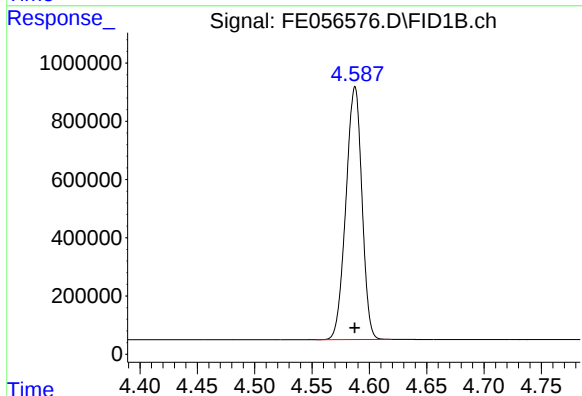




#1 n-Nonane (C9)

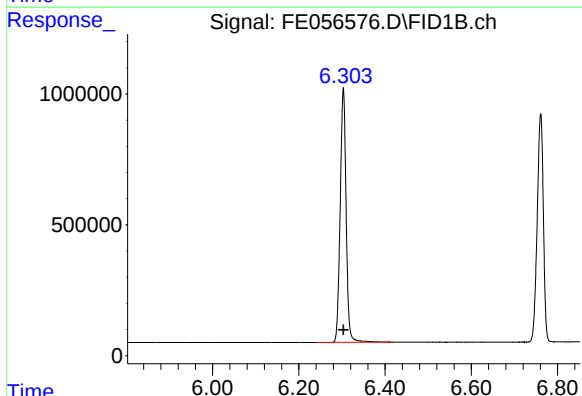
R.T.: 3.334 min
Delta R.T.: 0.000 min
Response: 8283699
Conc: 51.11 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



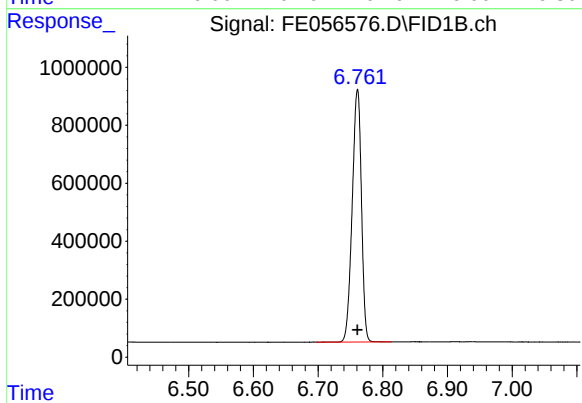
#2 n-Decane (C10)

R.T.: 4.587 min
Delta R.T.: 0.000 min
Response: 8458707
Conc: 51.10 ug/ml



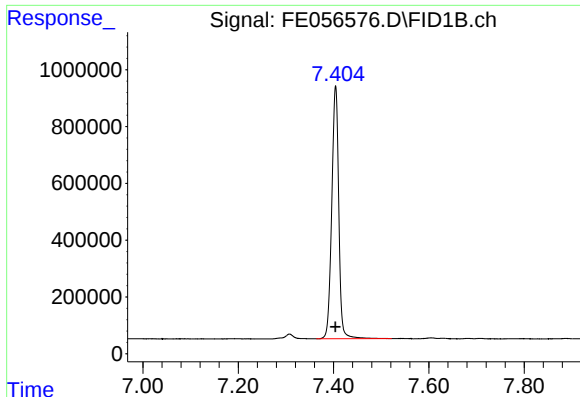
#3 A~Naphthalene (C11.7)

R.T.: 6.303 min
Delta R.T.: 0.000 min
Response: 9255687
Conc: 51.18 ug/ml



#4 n-Dodecane (C12)

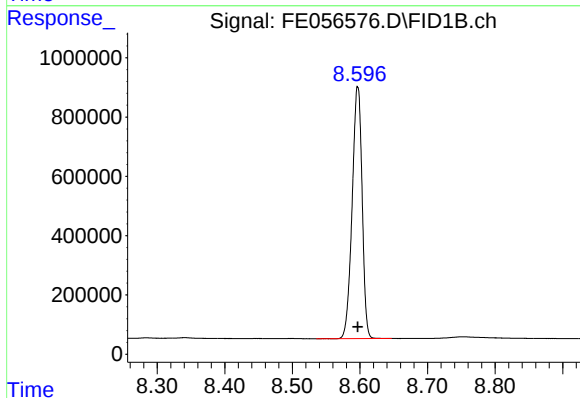
R.T.: 6.761 min
Delta R.T.: 0.000 min
Response: 8630420
Conc: 51.25 ug/ml



#5 A~2-methylnaphthalene (C12.89)

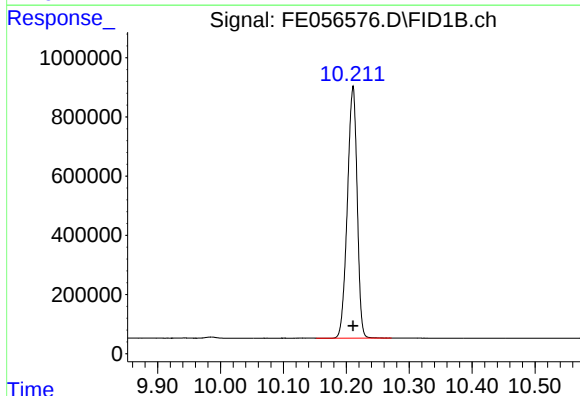
R.T.: 7.404 min
Delta R.T.: 0.000 min
Response: 9018328
Conc: 51.41 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



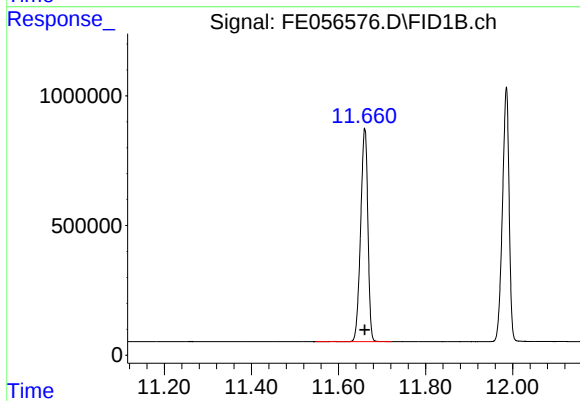
#6 n-Tetradecane (C14)

R.T.: 8.597 min
Delta R.T.: 0.000 min
Response: 8702299
Conc: 51.50 ug/ml



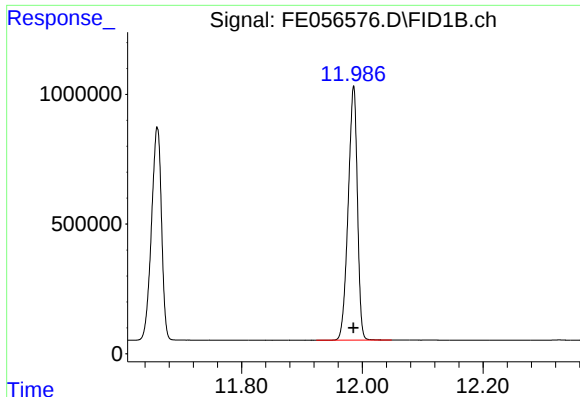
#7 n-Hexadecane (C16)

R.T.: 10.210 min
Delta R.T.: 0.000 min
Response: 9165065
Conc: 51.68 ug/ml



#8 n-Octadecane (C18)

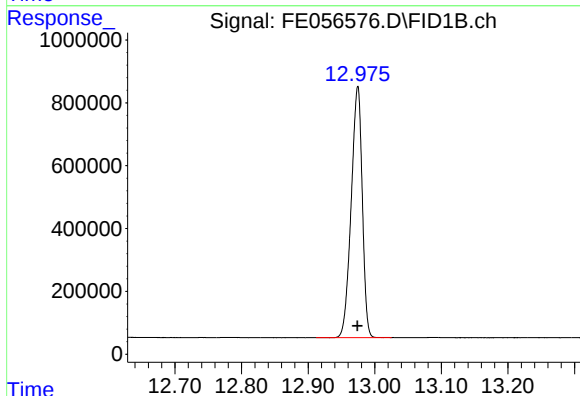
R.T.: 11.660 min
Delta R.T.: 0.000 min
Response: 9466424
Conc: 51.84 ug/ml



#9 ortho-Terphenyl (SURR)

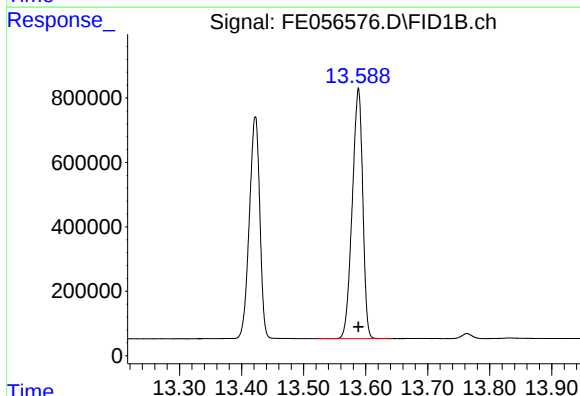
R.T.: 11.985 min
Delta R.T.: 0.000 min
Response: 10390390
Conc: 51.61 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



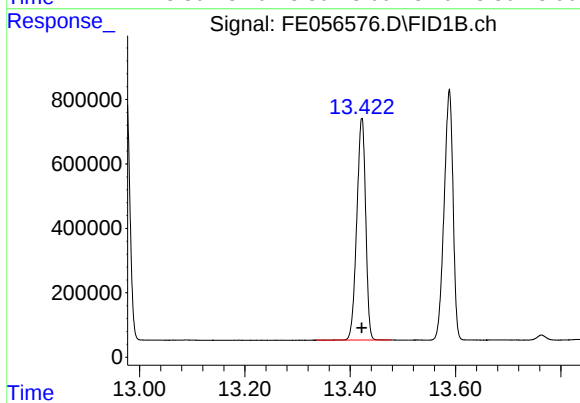
#10 n-Eicosane (C20)

R.T.: 12.974 min
Delta R.T.: 0.000 min
Response: 9224749
Conc: 51.78 ug/ml



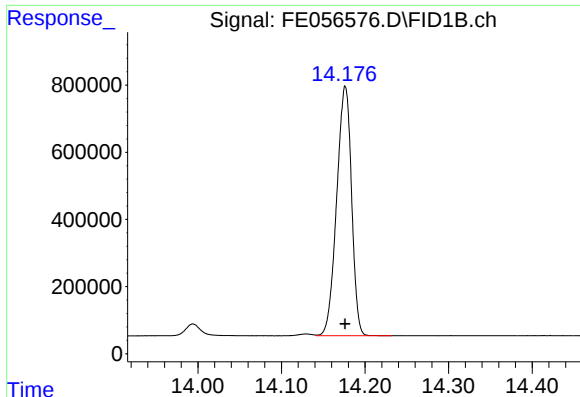
#11 n-Heneicosane (C21)

R.T.: 13.588 min
Delta R.T.: 0.000 min
Response: 9116016
Conc: 51.76 ug/ml



#12 1-chlorooctadecane (SURR)

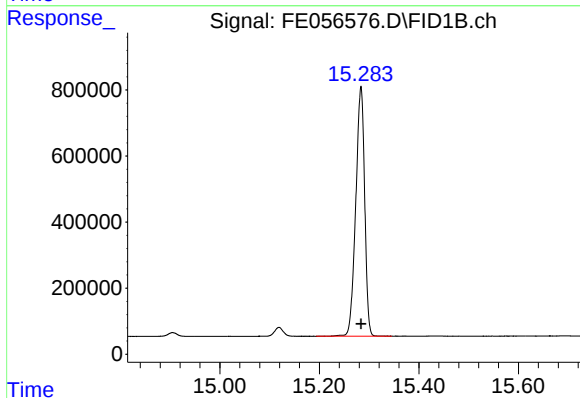
R.T.: 13.422 min
Delta R.T.: 0.000 min
Response: 8069798
Conc: 51.78 ug/ml



#13 n-Docosane (C22)

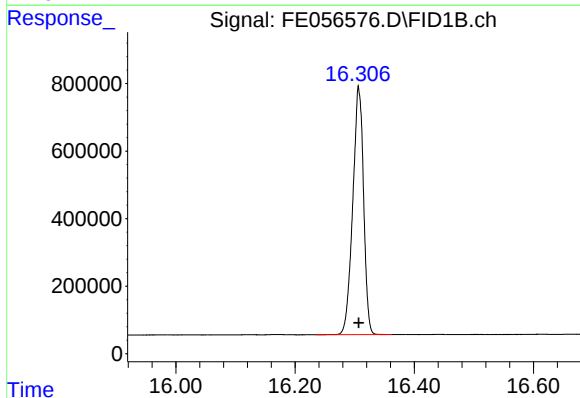
R.T.: 14.176 min
Delta R.T.: 0.000 min
Response: 9188407
Conc: 52.02 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



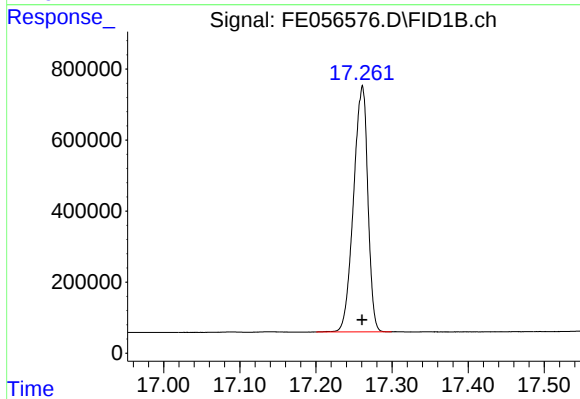
#14 n-Tetracosane (C24)

R.T.: 15.283 min
Delta R.T.: 0.000 min
Response: 9376021
Conc: 52.58 ug/ml



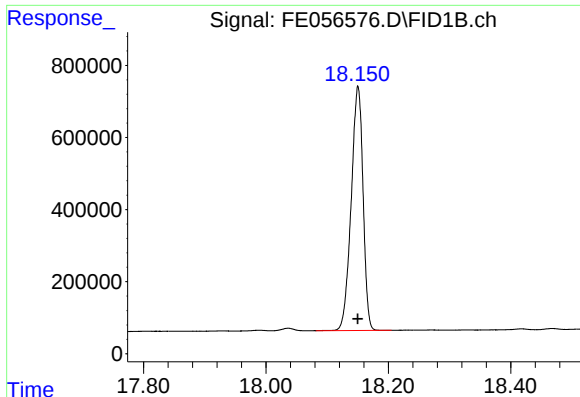
#15 n-Hexacosane (C26)

R.T.: 16.307 min
Delta R.T.: 0.000 min
Response: 9244371
Conc: 52.64 ug/ml



#16 n-Octacosane (C28)

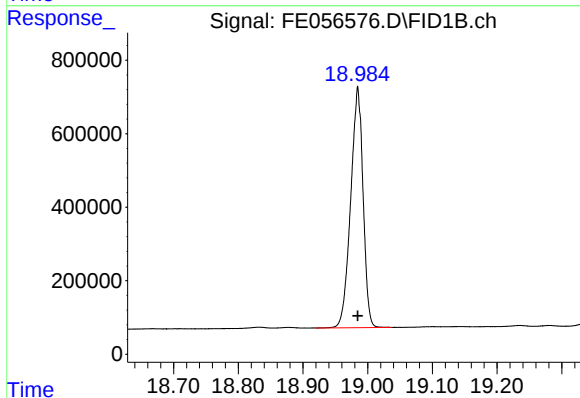
R.T.: 17.261 min
Delta R.T.: 0.000 min
Response: 9040985
Conc: 52.62 ug/ml



#17 n-Tricontane (C30)

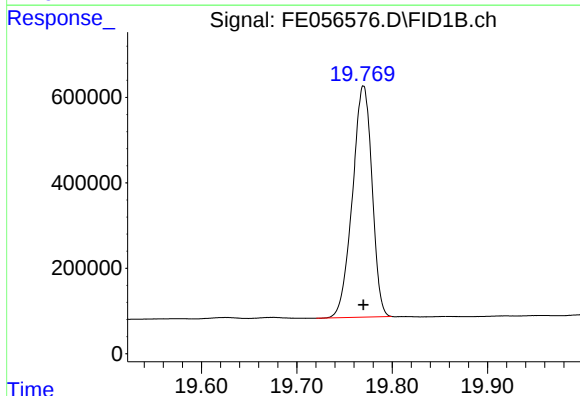
R.T.: 18.150 min
Delta R.T.: 0.000 min
Response: 9116641
Conc: 52.43 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



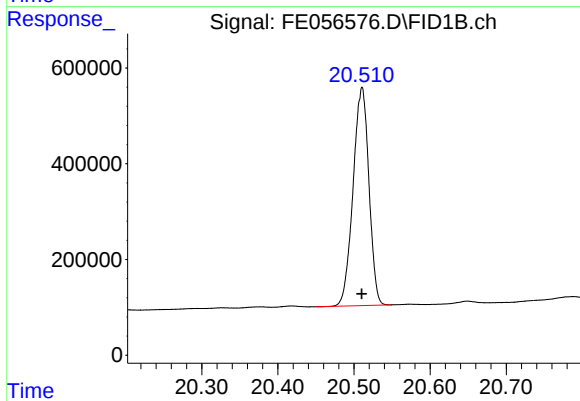
#18 n-Dotriacontane (C32)

R.T.: 18.985 min
Delta R.T.: 0.000 min
Response: 8697901
Conc: 52.19 ug/ml



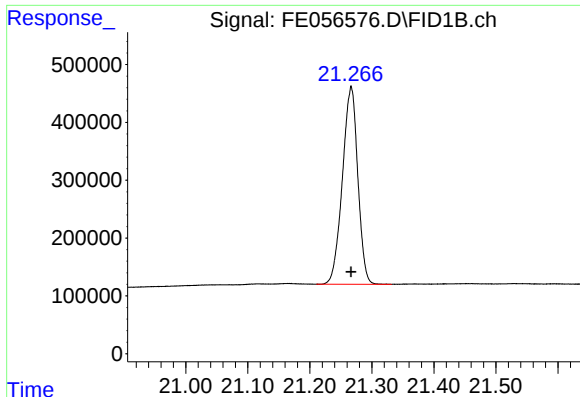
#19 n-Tetratriacontane (C34)

R.T.: 19.770 min
Delta R.T.: 0.000 min
Response: 7726773
Conc: 51.67 ug/ml



#20 n-Hexatriacontane (C36)

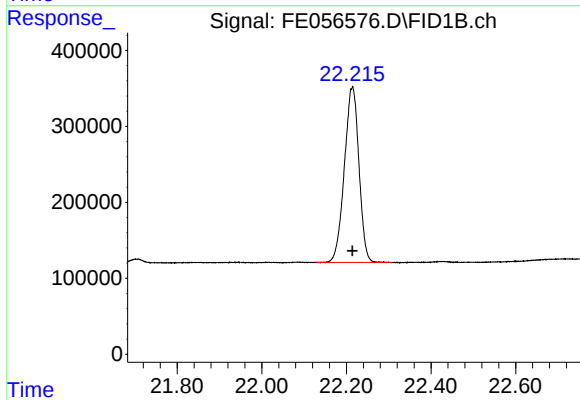
R.T.: 20.510 min
Delta R.T.: 0.000 min
Response: 6593672
Conc: 51.17 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.266 min
Delta R.T.: 0.000 min
Response: 5889118
Conc: 50.97 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.214 min
Delta R.T.: 0.000 min
Response: 5525608
Conc: 51.42 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056576.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 10:50
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.334	3.295	3.390	BB	859468	8283699	79.72%	4.402%
2	4.587	4.554	4.619	BBA	868249	8458707	81.41%	4.495%
3	6.303	6.240	6.415	BB	974202	9255687	89.08%	4.919%
4	6.761	6.697	6.814	BB	869786	8630420	83.06%	4.586%
5	7.404	7.364	7.522	BB	890333	9018328	86.79%	4.792%
6	8.597	8.535	8.647	BB	849680	8702299	83.75%	4.624%
7	10.210	10.152	10.272	BB	848274	9165065	88.21%	4.870%
8	11.660	11.549	11.722	BB	822893	9466424	91.11%	5.030%
9	11.985	11.924	12.049	BB	981415	10390390	100.00%	5.521%
10	12.974	12.912	13.025	BB	797927	9224749	88.78%	4.902%
11	13.422	13.335	13.479	BB	689355	8069798	77.67%	4.288%
12	13.588	13.520	13.642	BB	780350	9116016	87.74%	4.844%
13	14.176	14.142	14.232	VB	743785	9188407	88.43%	4.883%
14	15.283	15.194	15.345	BB	757600	9376021	90.24%	4.982%
15	16.307	16.235	16.362	BB	727588	9244371	88.97%	4.912%
16	17.261	17.200	17.299	BBA	690402	9040985	87.01%	4.804%
17	18.150	18.082	18.205	BB	679486	9116641	87.74%	4.845%
18	18.985	18.920	19.037	BB	654654	8697901	83.71%	4.622%
19	19.770	19.720	19.799	BBA	541984	7726773	74.36%	4.106%
20	20.510	20.450	20.549	BBA	457176	6593672	63.46%	3.504%
21	21.266	21.210	21.332	BB	342971	5889118	56.68%	3.129%
22	22.214	22.129	22.307	BB	230200	5525608	53.18%	2.936%

Sum of corrected areas: 188181079

Aliphatic EPH 103025.M Thu Oct 30 12:57:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056577.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:20
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 30 12:00:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 11:59:52 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.980	4110239	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.418	3172652	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.333	3309356	20.000 ug/ml
2) T n-Decane (C10)	4.585	3388814	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.302	3665296	20.000 ug/ml
4) T n-Dodecane (C12)	6.758	3436704	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.402	3527076	20.000 ug/ml
6) T n-Tetradecane (C14)	8.593	3435589	20.000 ug/ml
7) T n-Hexadecane (C16)	10.207	3603610	20.000 ug/ml
8) T n-Octadecane (C18)	11.656	3719660	20.000 ug/ml
10) T n-Eicosane (C20)	12.970	3642327	20.000 ug/ml
11) T n-Heneicosane (C21)	13.584	3600979	20.000 ug/ml
13) T n-Docosane (C22)	14.172	3603427	20.000 ug/ml
14) T n-Tetracosane (C24)	15.278	3625778	20.000 ug/ml
15) T n-Hexacosane (C26)	16.302	3573189	20.000 ug/ml
16) T n-Octacosane (C28)	17.255	3520565	20.000 ug/ml
17) T n-Tricontane (C30)	18.146	3627924	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.981	3543930	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.766	3202986	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.507	2737391	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.262	2396120	20.000 ug/ml
22) T n-Tetracontane (C40)	22.211	2215261	20.000 ug/ml

(f)=RT Delta > 1/2 Window

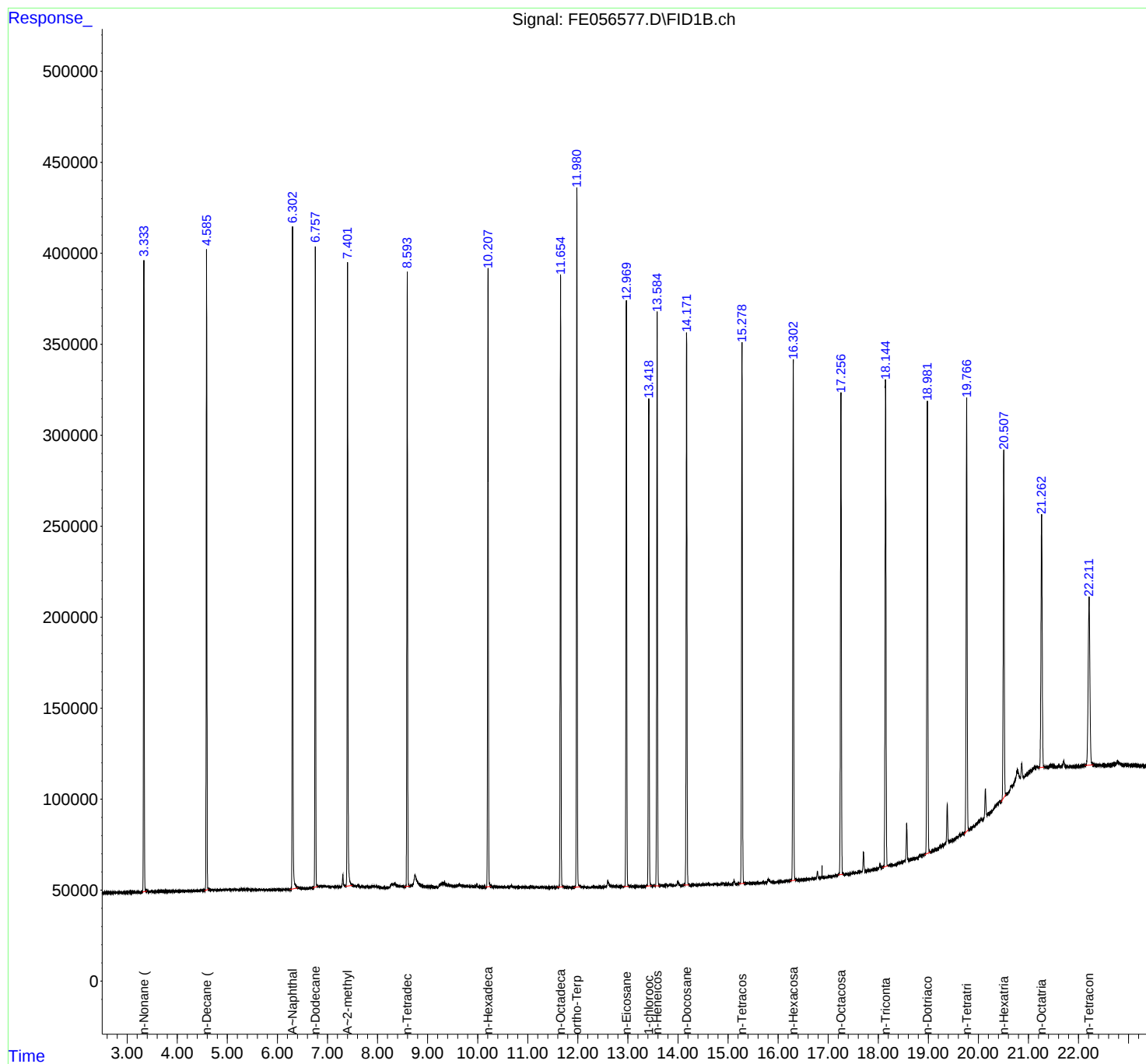
(m)=manual int.

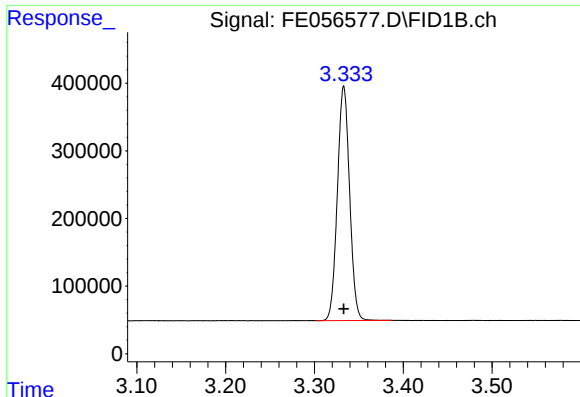
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056577.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 11:20
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 30 12:00:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 11:59:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

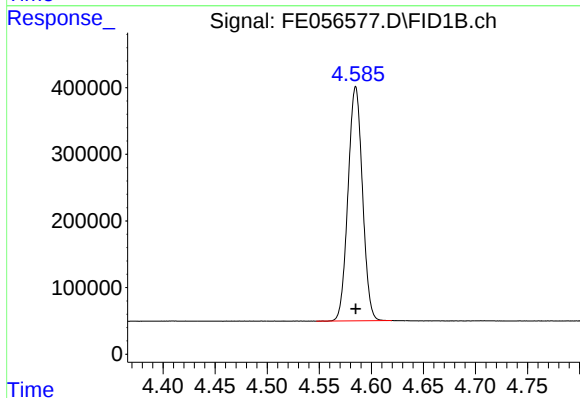




#1 n-Nonane (C9)

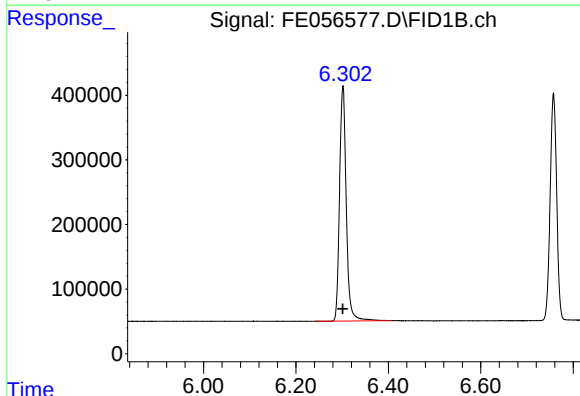
R.T.: 3.333 min
Delta R.T.: 0.000 min
Response: 3309356
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



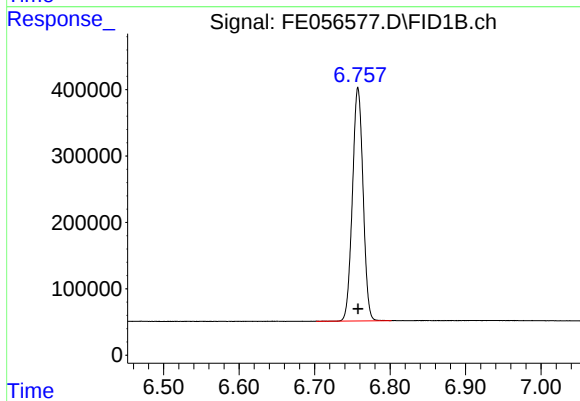
#2 n-Decane (C10)

R.T.: 4.585 min
Delta R.T.: 0.000 min
Response: 3388814
Conc: 20.00 ug/ml



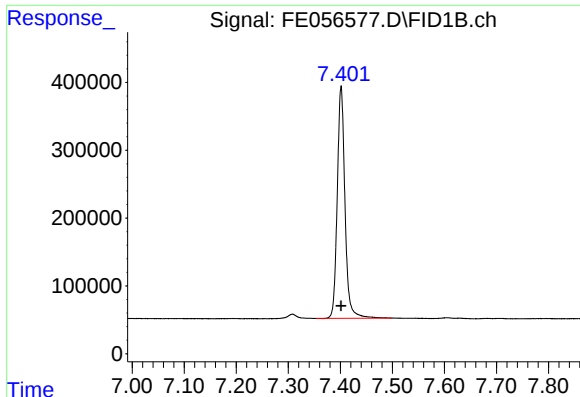
#3 A~Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 3665296
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

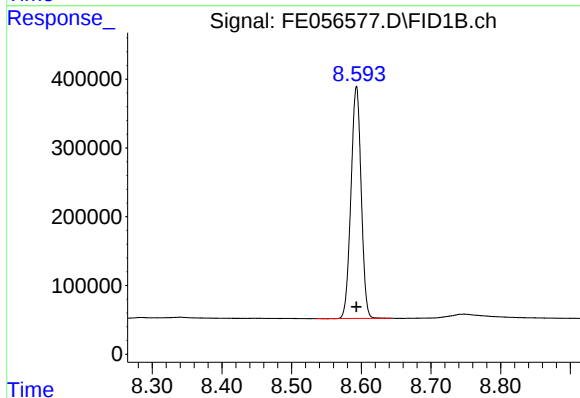
R.T.: 6.758 min
Delta R.T.: 0.000 min
Response: 3436704
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

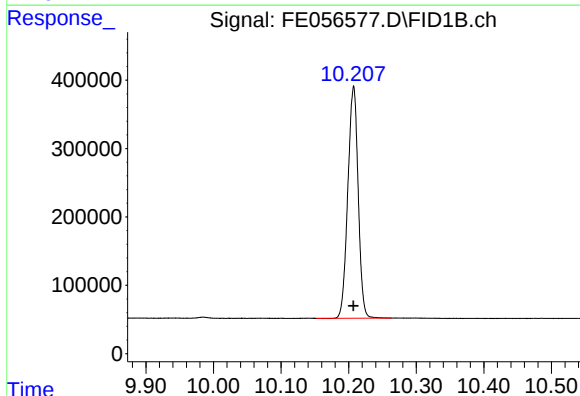
R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 3527076
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



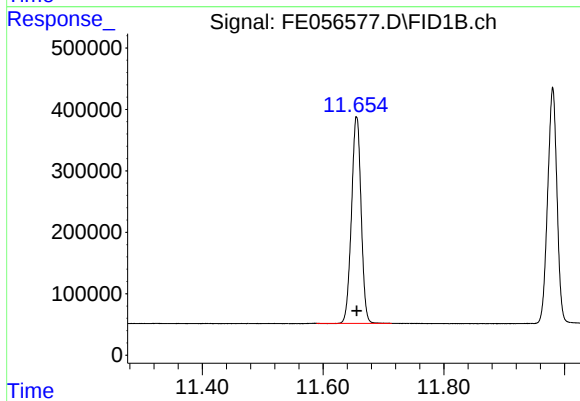
#6 n-Tetradecane (C14)

R.T.: 8.593 min
Delta R.T.: 0.000 min
Response: 3435589
Conc: 20.00 ug/ml



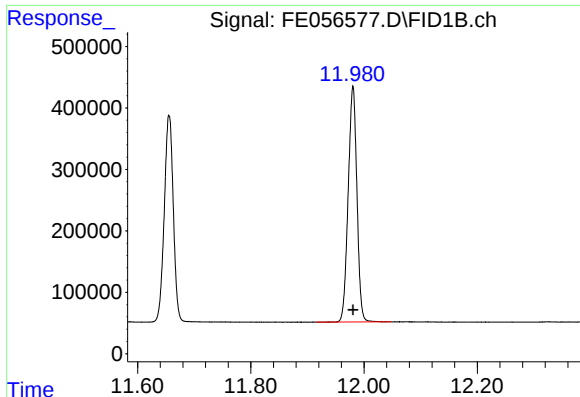
#7 n-Hexadecane (C16)

R.T.: 10.207 min
Delta R.T.: 0.000 min
Response: 3603610
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

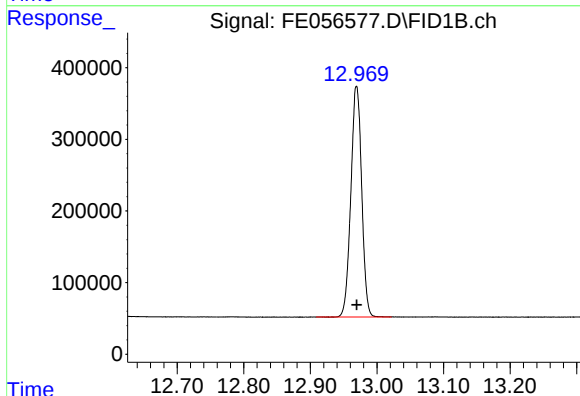
R.T.: 11.656 min
Delta R.T.: 0.000 min
Response: 3719660
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

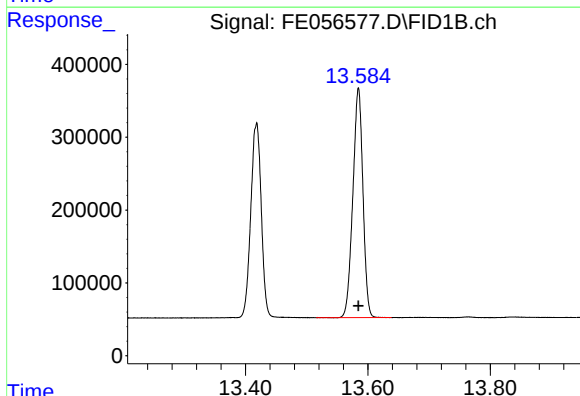
R.T.: 11.980 min
Delta R.T.: 0.000 min
Response: 4110239
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



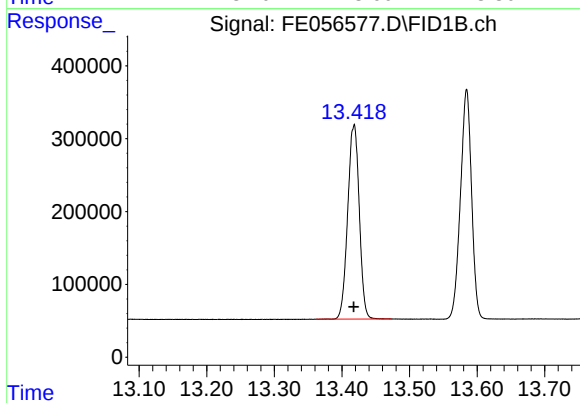
#10 n-Eicosane (C20)

R.T.: 12.970 min
Delta R.T.: 0.000 min
Response: 3642327
Conc: 20.00 ug/ml



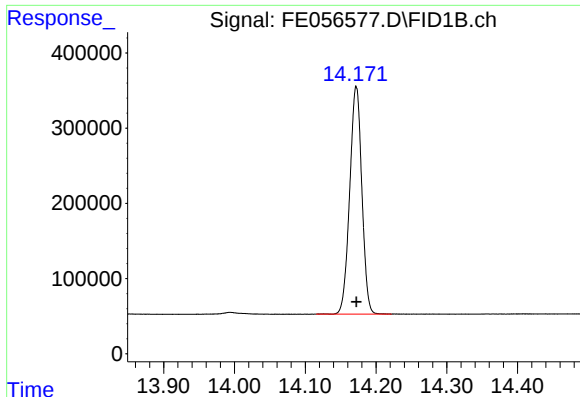
#11 n-Heneicosane (C21)

R.T.: 13.584 min
Delta R.T.: 0.000 min
Response: 3600979
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

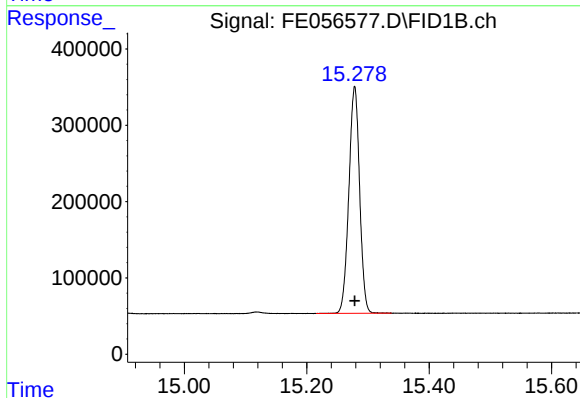
R.T.: 13.418 min
Delta R.T.: 0.000 min
Response: 3172652
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

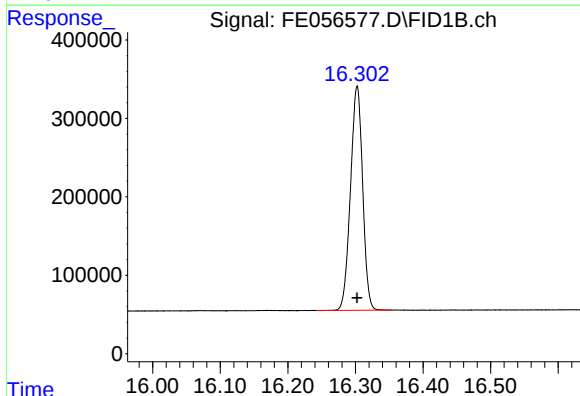
R.T.: 14.172 min
Delta R.T.: 0.000 min
Response: 3603427
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



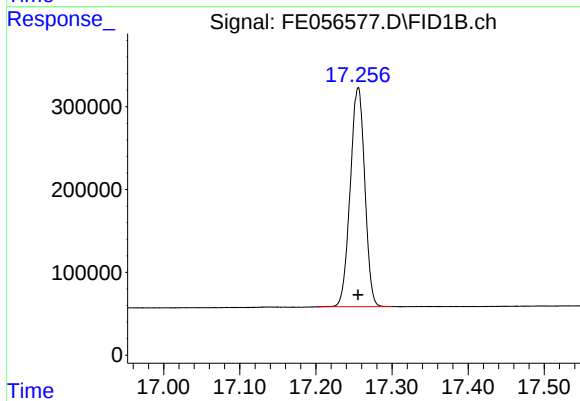
#14 n-Tetracosane (C24)

R.T.: 15.278 min
Delta R.T.: 0.000 min
Response: 3625778
Conc: 20.00 ug/ml



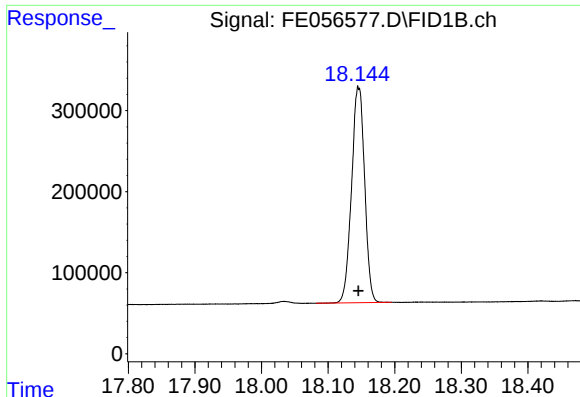
#15 n-Hexacosane (C26)

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 3573189
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

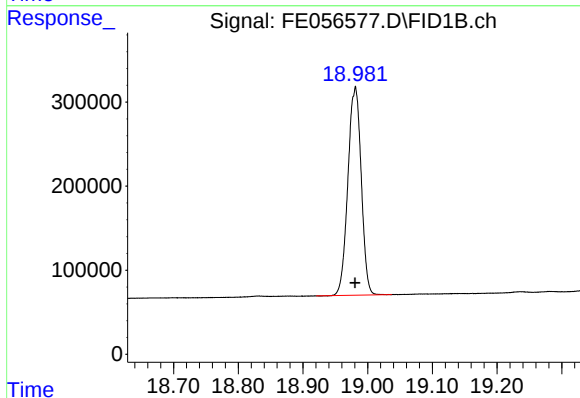
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 3520565
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

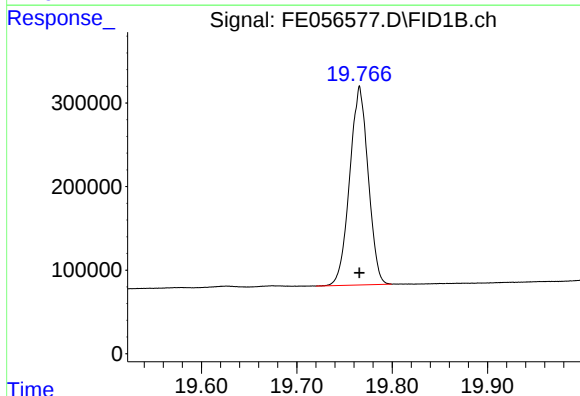
R.T.: 18.146 min
Delta R.T.: 0.000 min
Response: 3627924
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



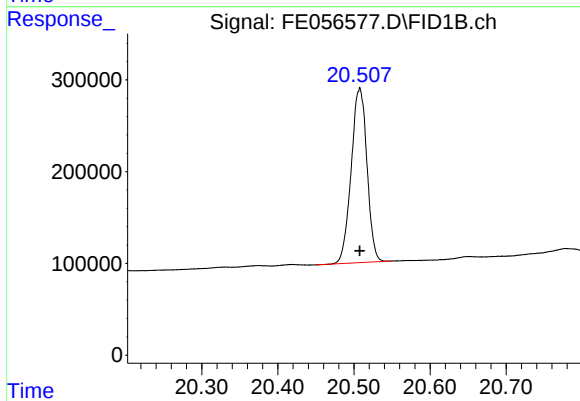
#18 n-Dotriacontane (C32)

R.T.: 18.981 min
Delta R.T.: 0.000 min
Response: 3543930
Conc: 20.00 ug/ml



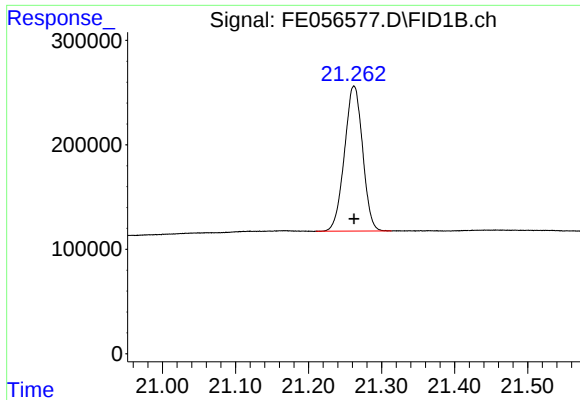
#19 n-Tetratriacontane (C34)

R.T.: 19.766 min
Delta R.T.: 0.000 min
Response: 3202986
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

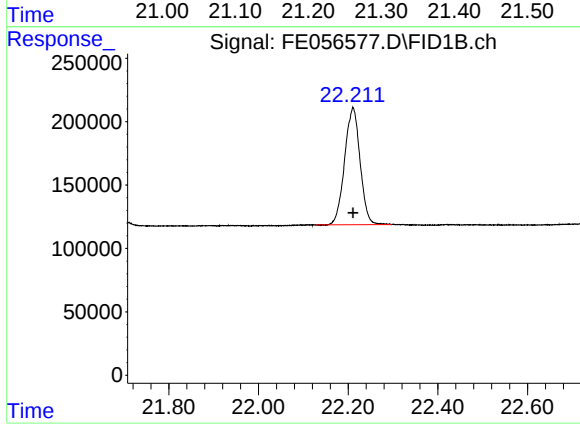
R.T.: 20.507 min
Delta R.T.: 0.000 min
Response: 2737391
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 2396120
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.211 min
Delta R.T.: 0.000 min
Response: 2215261
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056577.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:20
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.333	3.302	3.387	BB	346822	3309356	80.51%	4.433%
2	4.585	4.547	4.619	BBA	352192	3388814	82.45%	4.539%
3	6.302	6.244	6.407	BB	364861	3665296	89.17%	4.909%
4	6.758	6.702	6.802	BB	351549	3436704	83.61%	4.603%
5	7.402	7.354	7.499	BB	342824	3527076	85.81%	4.724%
6	8.593	8.535	8.644	BB	338958	3435589	83.59%	4.602%
7	10.207	10.152	10.264	BB	338730	3603610	87.67%	4.827%
8	11.656	11.589	11.714	BB	336890	3719660	90.50%	4.982%
9	11.980	11.915	12.049	BB	384534	4110239	100.00%	5.505%
10	12.970	12.909	13.022	BB	322608	3642327	88.62%	4.879%
11	13.418	13.362	13.474	BB	264565	3172652	77.19%	4.250%
12	13.584	13.515	13.639	BB	315131	3600979	87.61%	4.823%
13	14.172	14.115	14.222	BB	303235	3603427	87.67%	4.827%
14	15.278	15.215	15.339	BB	298227	3625778	88.21%	4.856%
15	16.302	16.242	16.354	BB	285534	3573189	86.93%	4.786%
16	17.255	17.200	17.299	BBA	264764	3520565	85.65%	4.716%
17	18.146	18.082	18.195	BB	266055	3627924	88.27%	4.859%
18	18.981	18.920	19.037	BB	246347	3543930	86.22%	4.747%
19	19.766	19.720	19.799	BBA	237128	3202986	77.93%	4.290%
20	20.507	20.450	20.549	BBA	189105	2737391	66.60%	3.667%
21	21.262	21.210	21.314	BB	138965	2396120	58.30%	3.209%
22	22.211	22.129	22.297	BB	92560	2215261	53.90%	2.967%
Sum of corrected areas:							74658870	

Aliphatic EPH 103025.M Thu Oct 30 12:57:56 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056578.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:51
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 30 12:21:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:21:37 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.979	2175105	10.592 ug/ml
Spiked Amount 50.000		Recovery =	21.18%
12) S 1-chlorooctadecane (S...	13.417	1673178	10.542 ug/ml
Spiked Amount 50.000		Recovery =	21.08%
Target Compounds			
1) T n-Nonane (C9)	3.332	1739861	10.541 ug/ml
2) T n-Decane (C10)	4.584	1778707	10.549 ug/ml
3) T A~Naphthalene (C11.7)	6.302	1900301	10.376 ug/ml
4) T n-Dodecane (C12)	6.757	1805400	10.532 ug/ml
5) T A~2-methylnaphthalene...	7.401	1809756	10.235 ug/ml
6) T n-Tetradecane (C14)	8.592	1806960	10.512 ug/ml
7) T n-Hexadecane (C16)	10.206	1900814	10.530 ug/ml
8) T n-Octadecane (C18)	11.654	1972225	10.589 ug/ml
10) T n-Eicosane (C20)	12.969	1949024	10.689 ug/ml
11) T n-Heneicosane (C21)	13.583	1922827	10.673 ug/ml
13) T n-Docosane (C22)	14.171	1965821	10.824 ug/ml
14) T n-Tetracosane (C24)	15.278	2071768	11.167 ug/ml
15) T n-Hexacosane (C26)	16.302	2057752	11.236 ug/ml
16) T n-Octacosane (C28)	17.255	2055084	11.402 ug/ml
17) T n-Tricontane (C30)	18.145	2121276	11.564 ug/ml
18) T n-Dotriacontane (C32)	18.980	2084284	11.769 ug/ml
19) T n-Tetratriacontane (C34)	19.764	1830892	11.592 ug/ml
20) T n-Hexatriacontane (C36)	20.507	1529216	11.338 ug/ml
21) T n-Octatriacontane (C38)	21.262	1330818	11.096 ug/ml
22) T n-Tetracontane (C40)	22.208	1245352	11.147 ug/ml

(f)=RT Delta > 1/2 Window

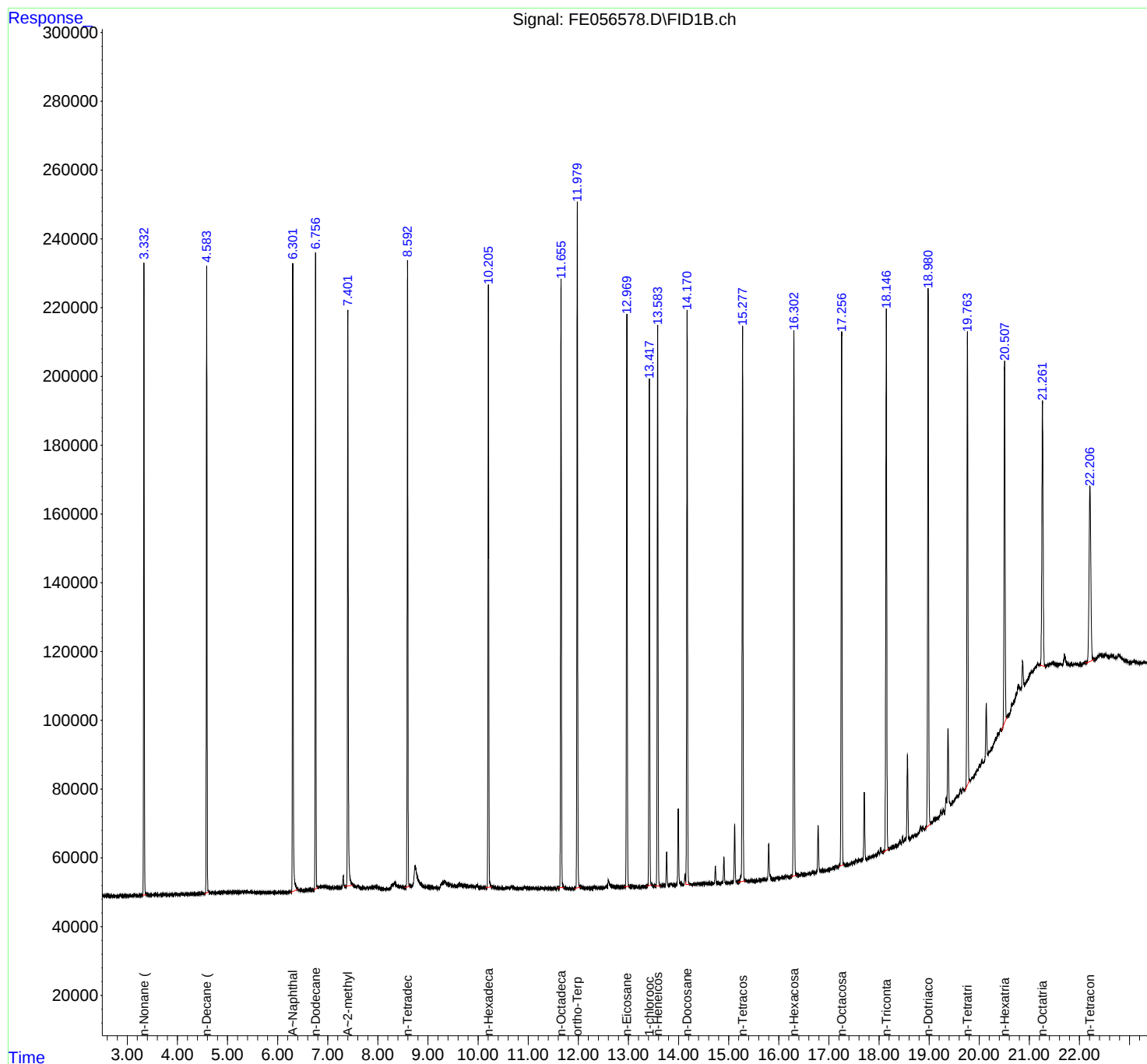
(m)=manual int.

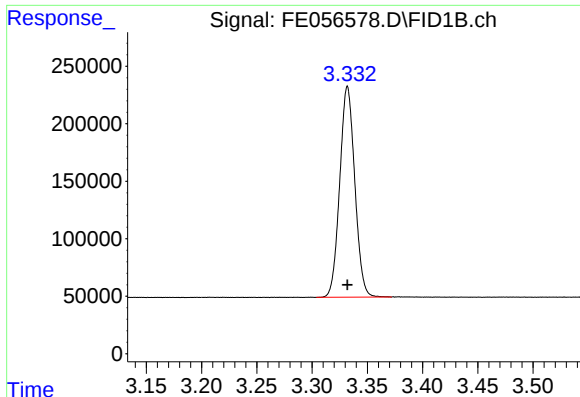
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056578.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 11:51
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 30 12:21:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:21:37 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

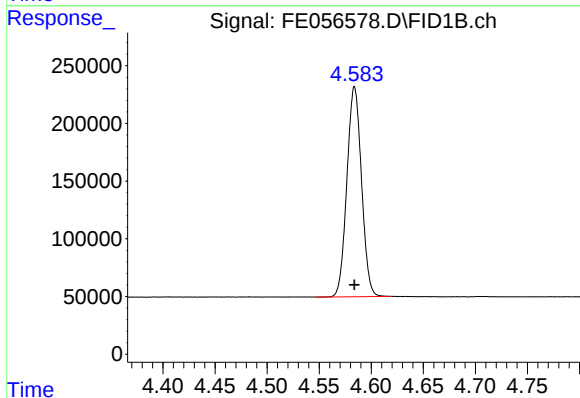




#1 n-Nonane (C9)

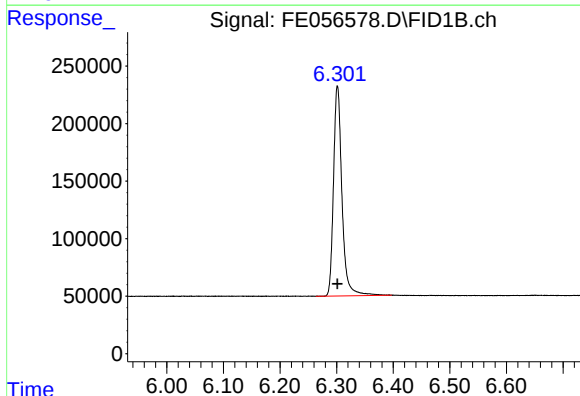
R.T.: 3.332 min
Delta R.T.: 0.000 min
Response: 1739861
Conc: 10.54 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



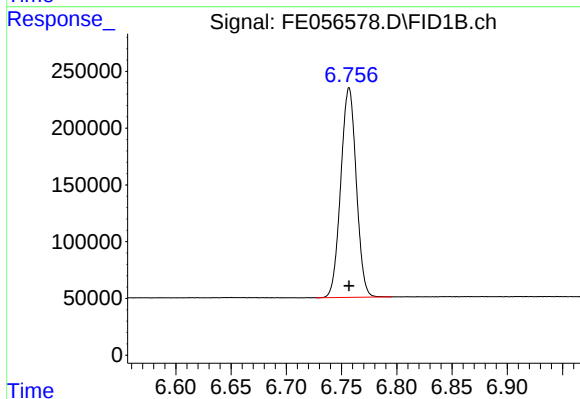
#2 n-Decane (C10)

R.T.: 4.584 min
Delta R.T.: 0.000 min
Response: 1778707
Conc: 10.55 ug/ml



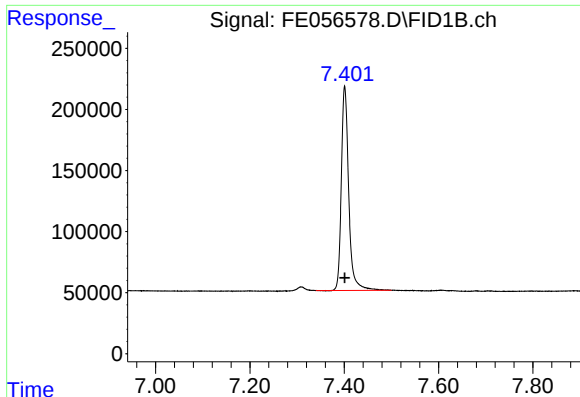
#3 A~Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 1900301
Conc: 10.38 ug/ml



#4 n-Dodecane (C12)

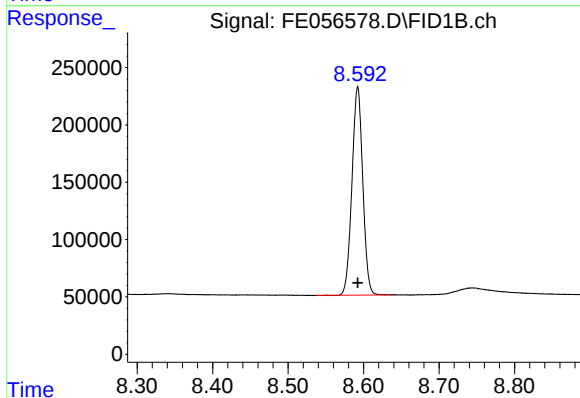
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 1805400
Conc: 10.53 ug/ml



#5 A~2-methylnaphthalene (C12.89)

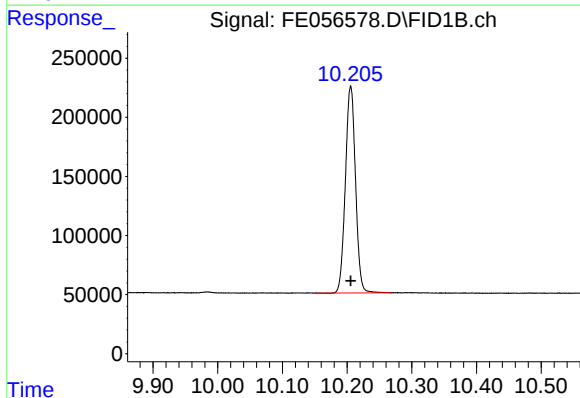
R.T.: 7.401 min
Delta R.T.: 0.000 min
Response: 1809756
Conc: 10.24 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



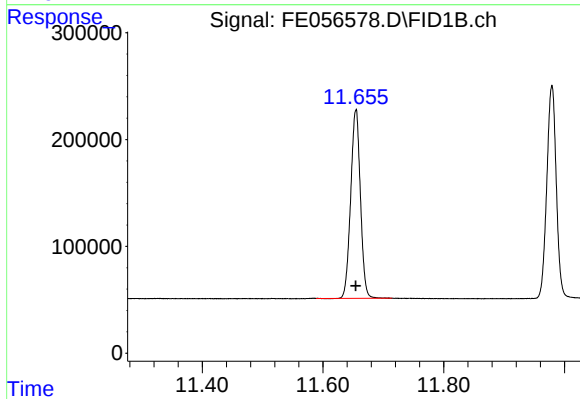
#6 n-Tetradecane (C14)

R.T.: 8.592 min
Delta R.T.: 0.000 min
Response: 1806960
Conc: 10.51 ug/ml



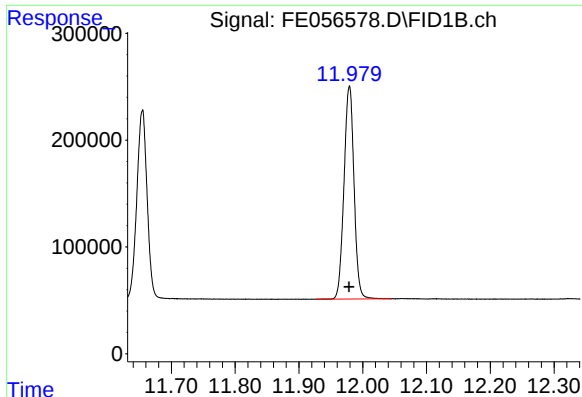
#7 n-Hexadecane (C16)

R.T.: 10.206 min
Delta R.T.: 0.000 min
Response: 1900814
Conc: 10.53 ug/ml



#8 n-Octadecane (C18)

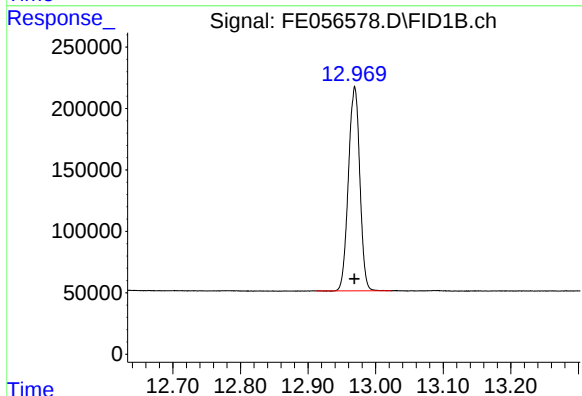
R.T.: 11.654 min
Delta R.T.: 0.000 min
Response: 1972225
Conc: 10.59 ug/ml



#9 ortho-Terphenyl (SURR)

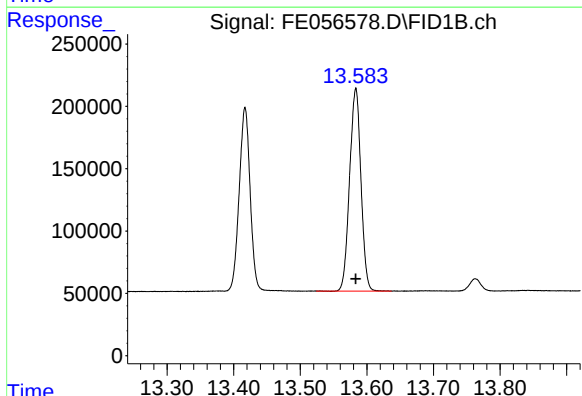
R.T.: 11.979 min
Delta R.T.: 0.000 min
Response: 2175105
Conc: 10.59 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



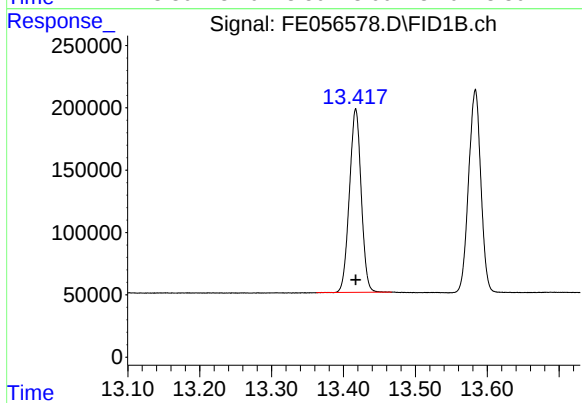
#10 n-Eicosane (C20)

R.T.: 12.969 min
Delta R.T.: 0.000 min
Response: 1949024
Conc: 10.69 ug/ml



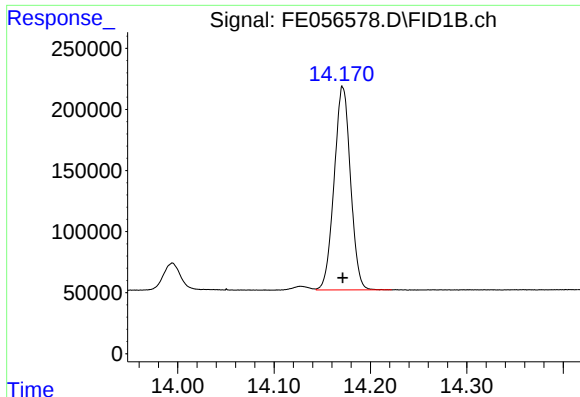
#11 n-Heneicosane (C21)

R.T.: 13.583 min
Delta R.T.: 0.000 min
Response: 1922827
Conc: 10.67 ug/ml



#12 1-chlorooctadecane (SURR)

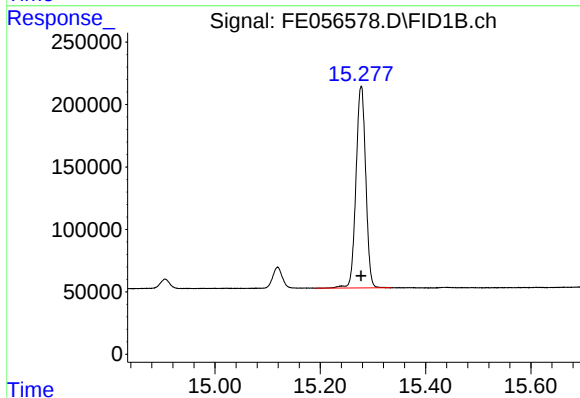
R.T.: 13.417 min
Delta R.T.: 0.000 min
Response: 1673178
Conc: 10.54 ug/ml



#13 n-Docosane (C22)

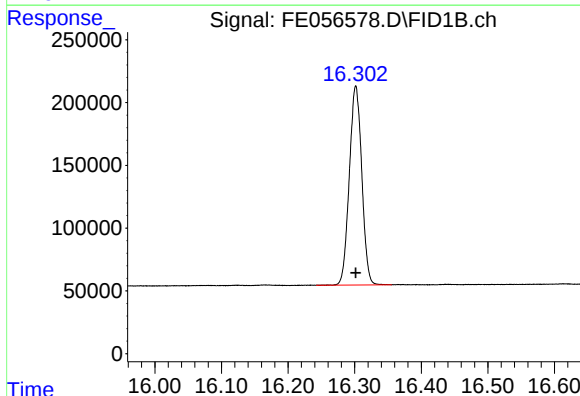
R.T.: 14.171 min
Delta R.T.: 0.000 min
Response: 1965821
Conc: 10.82 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



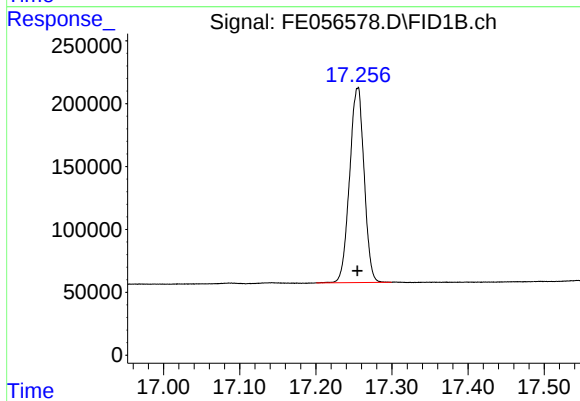
#14 n-Tetracosane (C24)

R.T.: 15.278 min
Delta R.T.: 0.000 min
Response: 2071768
Conc: 11.17 ug/ml



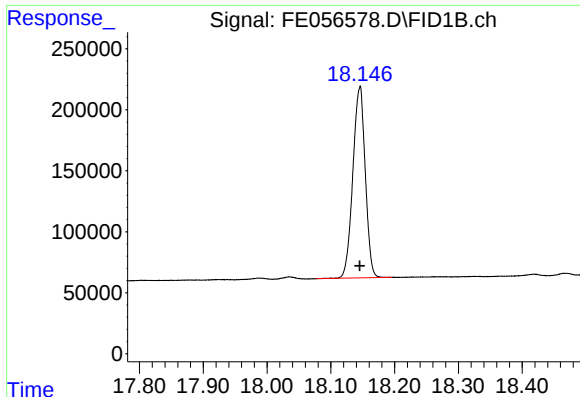
#15 n-Hexacosane (C26)

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 2057752
Conc: 11.24 ug/ml



#16 n-Octacosane (C28)

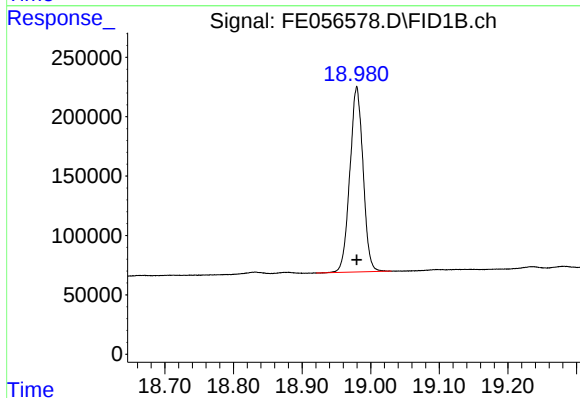
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 2055084
Conc: 11.40 ug/ml



#17 n-Tricontane (C30)

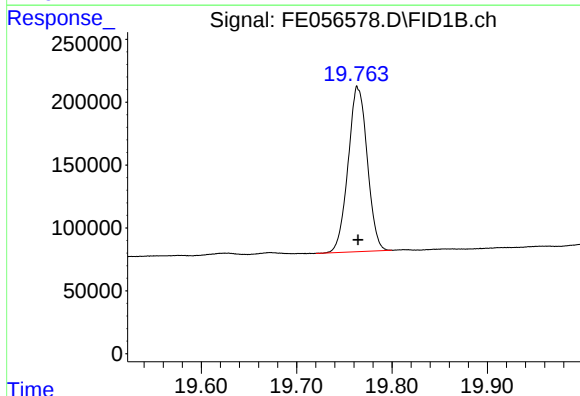
R.T.: 18.145 min
Delta R.T.: 0.000 min
Response: 2121276
Conc: 11.56 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



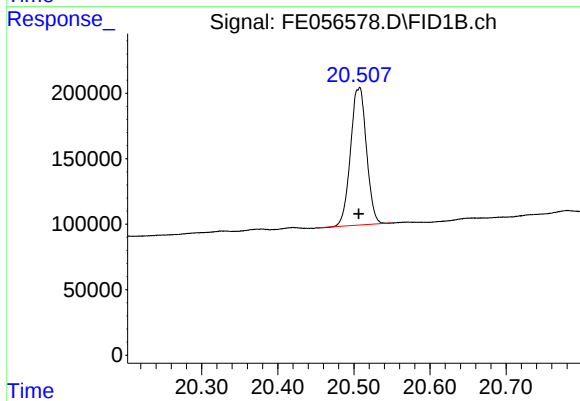
#18 n-Dotriacontane (C32)

R.T.: 18.980 min
Delta R.T.: 0.000 min
Response: 2084284
Conc: 11.77 ug/ml



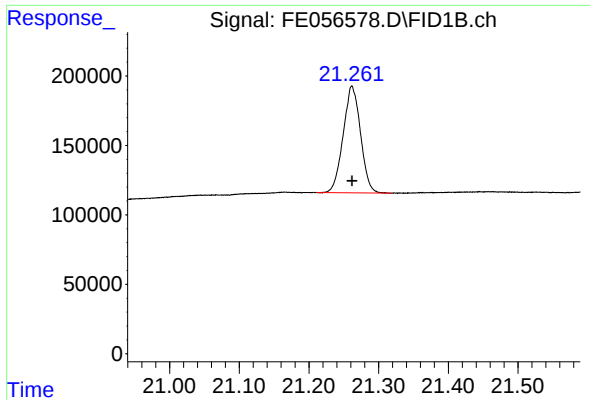
#19 n-Tetratriacontane (C34)

R.T.: 19.764 min
Delta R.T.: 0.000 min
Response: 1830892
Conc: 11.59 ug/ml



#20 n-Hexatriacontane (C36)

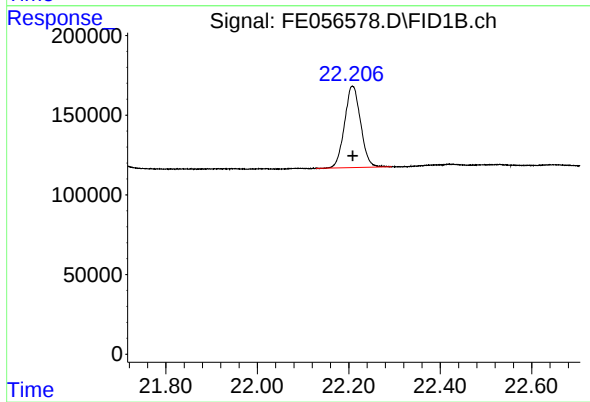
R.T.: 20.507 min
Delta R.T.: 0.000 min
Response: 1529216
Conc: 11.34 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 1330818
Conc: 11.10 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.208 min
Delta R.T.: 0.000 min
Response: 1245352
Conc: 11.15 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056578.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 11:51
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.332	3.304	3.372	BB	183333	1739861	79.99%	4.272%
2	4.584	4.547	4.620	BBA	182225	1778707	81.78%	4.367%
3	6.302	6.264	6.397	BB	182183	1900301	87.37%	4.666%
4	6.757	6.727	6.795	BB	185256	1805400	83.00%	4.433%
5	7.401	7.340	7.500	BB	165998	1809756	83.20%	4.444%
6	8.592	8.537	8.637	BB	181787	1806960	83.07%	4.437%
7	10.206	10.152	10.269	BB	174738	1900814	87.39%	4.667%
8	11.654	11.589	11.714	BB	176404	1972225	90.67%	4.843%
9	11.979	11.927	12.045	BB	199071	2175105	100.00%	5.341%
10	12.969	12.912	13.024	BB	166384	1949024	89.61%	4.786%
11	13.417	13.362	13.467	BB	147215	1673178	76.92%	4.108%
12	13.583	13.524	13.637	BB	163350	1922827	88.40%	4.721%
13	14.171	14.144	14.222	VB	165444	1965821	90.38%	4.827%
14	15.278	15.192	15.335	BB	161436	2071768	95.25%	5.087%
15	16.302	16.242	16.355	BB	158775	2057752	94.60%	5.053%
16	17.255	17.200	17.300	BBA	155015	2055084	94.48%	5.046%
17	18.145	18.077	18.195	BB	156516	2121276	97.53%	5.209%
18	18.980	18.920	19.030	BB	156591	2084284	95.82%	5.118%
19	19.764	19.720	19.800	BBA	130721	1830892	84.17%	4.496%
20	20.507	20.450	20.550	BBA	104860	1529216	70.31%	3.755%
21	21.262	21.210	21.319	BB	76821	1330818	61.18%	3.268%
22	22.208	22.129	22.294	BB	50974	1245352	57.25%	3.058%
Sum of corrected areas:						40726422		

Aliphatic EPH 103025.M Thu Oct 30 12:58:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056579.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 12:21
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 30 12:48:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:47:42 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.979	1115676	5.340 ug/ml
Spiked Amount 50.000		Recovery =	10.68%
12) S 1-chlorooctadecane (S...	13.417	853728	5.299 ug/ml
Spiked Amount 50.000		Recovery =	10.60%
Target Compounds			
1) T n-Nonane (C9)	3.333	897930	5.346 ug/ml
2) T n-Decane (C10)	4.585	917558	5.347 ug/ml
3) T A~Naphthalene (C11.7)	6.303	951651	5.156 ug/ml
4) T n-Dodecane (C12)	6.757	919808	5.288 ug/ml
5) T A~2-methylnaphthalene...	7.403	894288	5.046 ug/ml
6) T n-Tetradecane (C14)	8.592	925756	5.304 ug/ml
7) T n-Hexadecane (C16)	10.206	963615	5.267 ug/ml
8) T n-Octadecane (C18)	11.654	1006643	5.319 ug/ml
10) T n-Eicosane (C20)	12.969	1012155	5.431 ug/ml
11) T n-Heneicosane (C21)	13.582	993871	5.405 ug/ml
13) T n-Docosane (C22)	14.171	1047683	5.597 ug/ml
14) T n-Tetracosane (C24)	15.277	1186109	6.056 ug/ml
15) T n-Hexacosane (C26)	16.302	1195552	6.152 ug/ml
16) T n-Octacosane (C28)	17.255	1236772	6.386 ug/ml
17) T n-Tricontane (C30)	18.145	1343777	6.702 ug/ml
18) T n-Dotriacontane (C32)	18.981	1374204	6.988 ug/ml
19) T n-Tetratriacontane (C34)	19.765	1156477	6.700 ug/ml
20) T n-Hexatriacontane (C36)	20.507	919020	6.353 ug/ml
21) T n-Octatriacontane (C38)	21.262	747858	5.942 ug/ml
22) T n-Tetracontane (C40)	22.209	655889	5.673 ug/ml

(f)=RT Delta > 1/2 Window

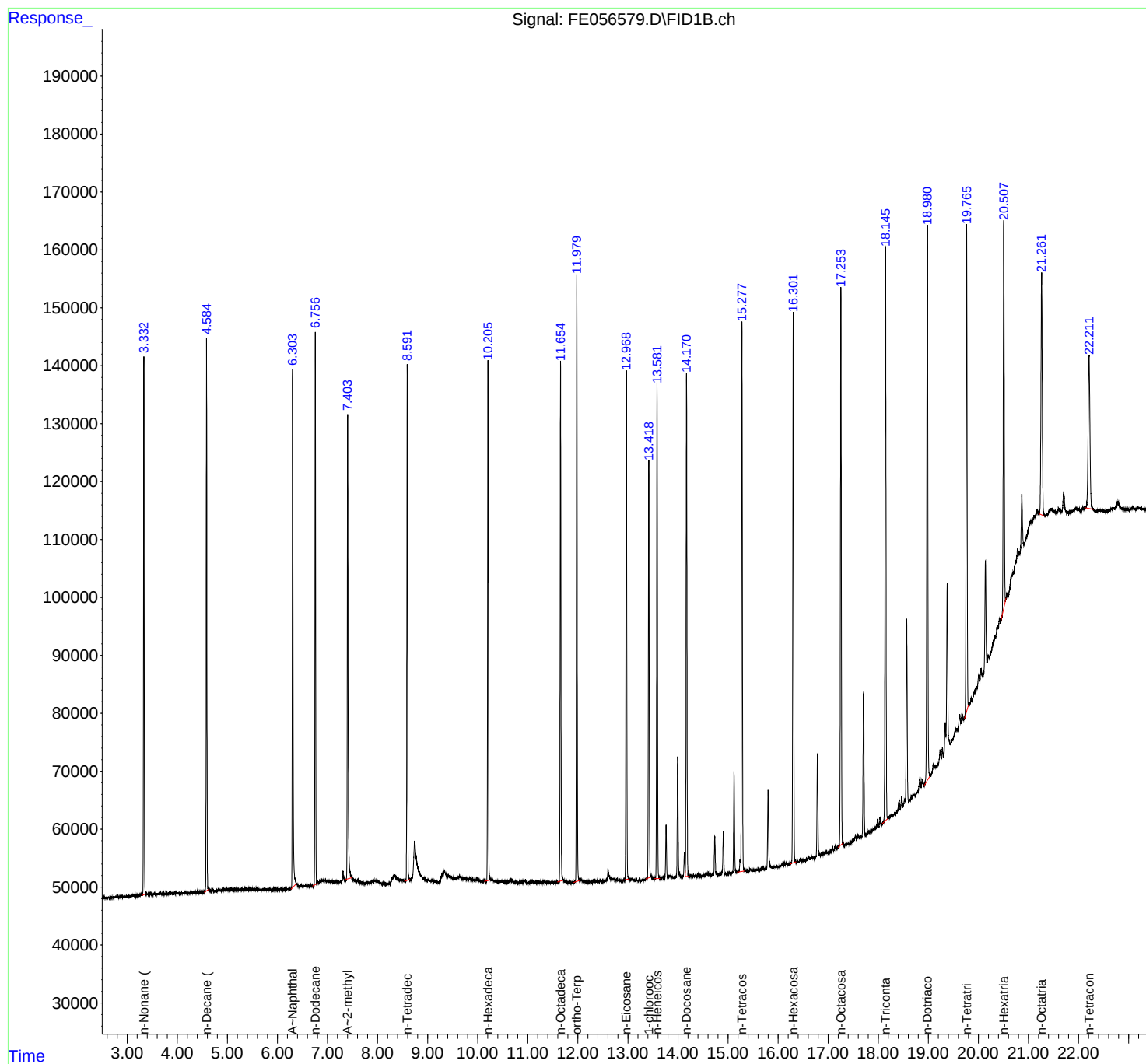
(m)=manual int.

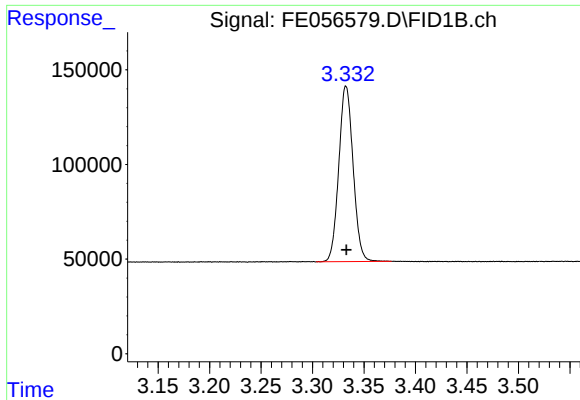
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056579.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 12:21
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 30 12:48:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:47:42 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

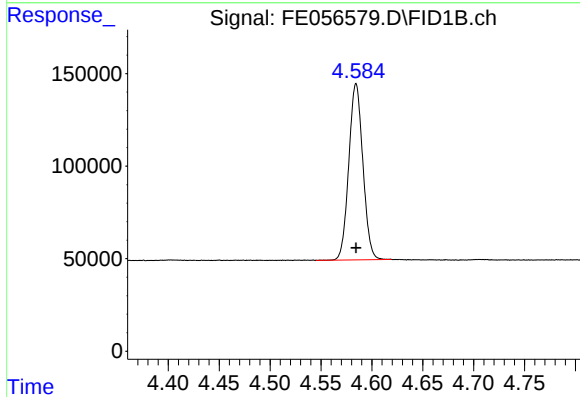




#1 n-Nonane (C9)

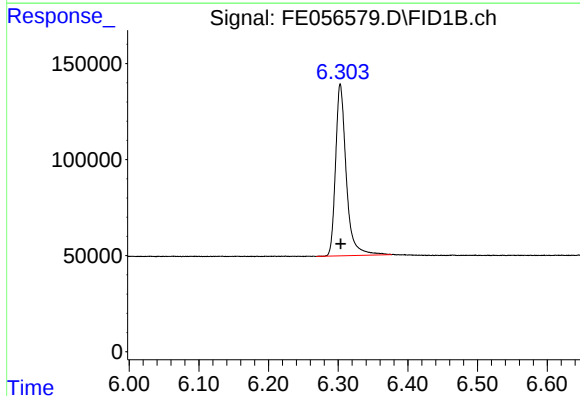
R.T.: 3.333 min
Delta R.T.: 0.000 min
Response: 897930
Conc: 5.35 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



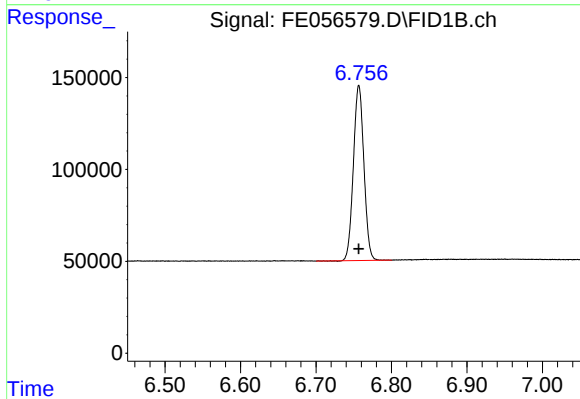
#2 n-Decane (C10)

R.T.: 4.585 min
Delta R.T.: 0.000 min
Response: 917558
Conc: 5.35 ug/ml



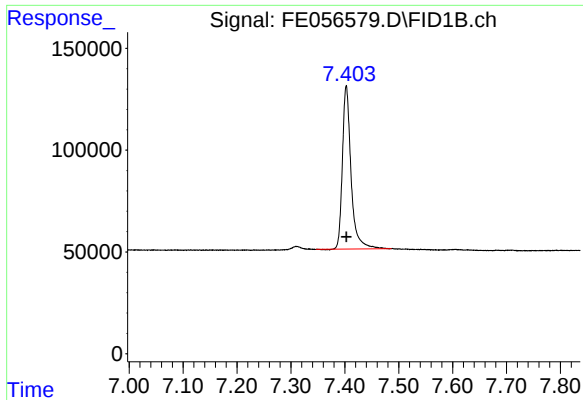
#3 A~Naphthalene (C11.7)

R.T.: 6.303 min
Delta R.T.: 0.000 min
Response: 951651
Conc: 5.16 ug/ml



#4 n-Dodecane (C12)

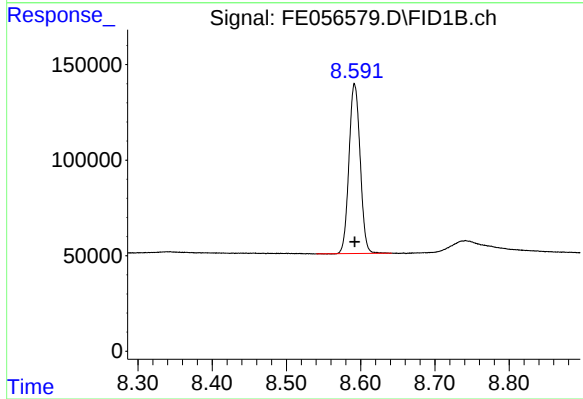
R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 919808
Conc: 5.29 ug/ml



#5 A~2-methylnaphthalene (C12.89)

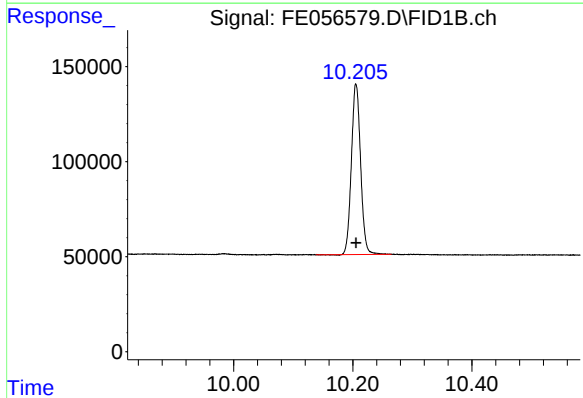
R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 894288
Conc: 5.05 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



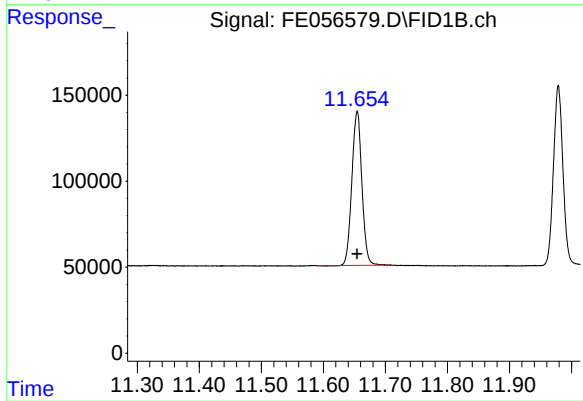
#6 n-Tetradecane (C14)

R.T.: 8.592 min
Delta R.T.: 0.000 min
Response: 925756
Conc: 5.30 ug/ml



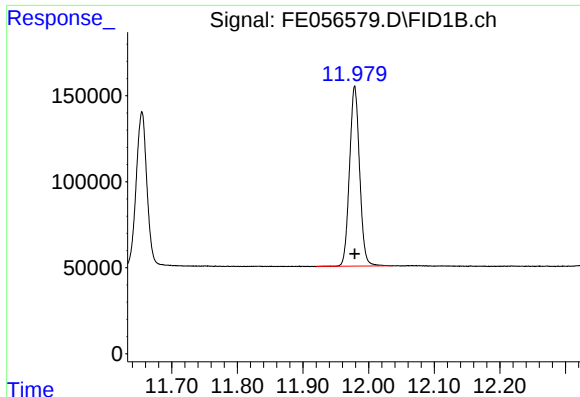
#7 n-Hexadecane (C16)

R.T.: 10.206 min
Delta R.T.: 0.000 min
Response: 963615
Conc: 5.27 ug/ml



#8 n-Octadecane (C18)

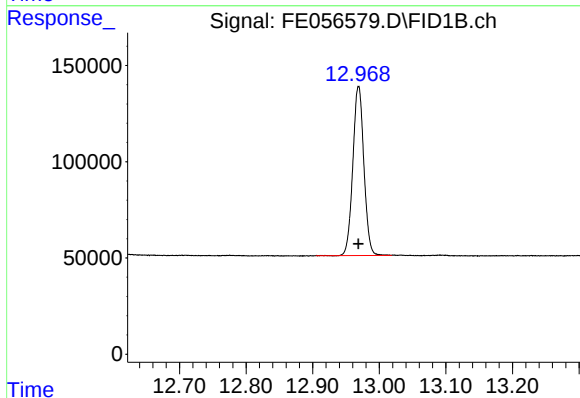
R.T.: 11.654 min
Delta R.T.: 0.000 min
Response: 1006643
Conc: 5.32 ug/ml



#9 ortho-Terphenyl (SURR)

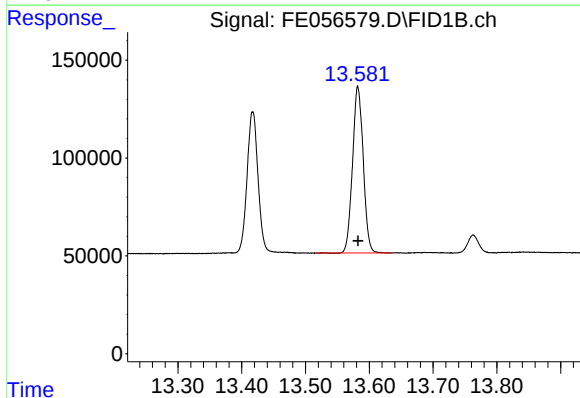
R.T.: 11.979 min
Delta R.T.: 0.000 min
Response: 1115676
Conc: 5.34 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



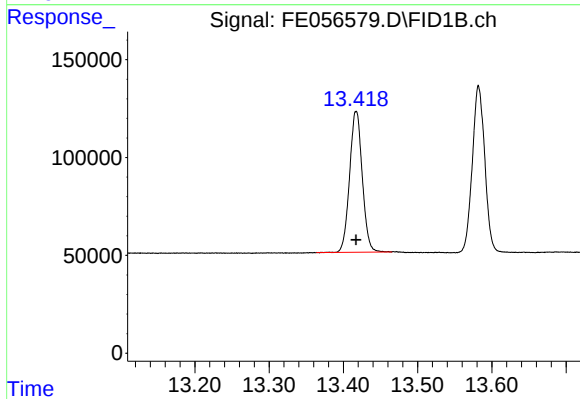
#10 n-Eicosane (C20)

R.T.: 12.969 min
Delta R.T.: 0.000 min
Response: 1012155
Conc: 5.43 ug/ml



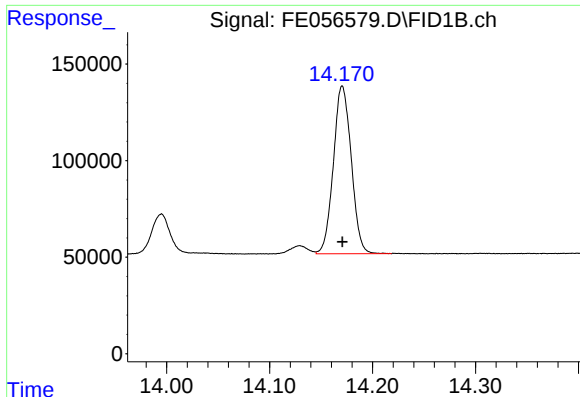
#11 n-Heneicosane (C21)

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 993871
Conc: 5.40 ug/ml



#12 1-chlorooctadecane (SURR)

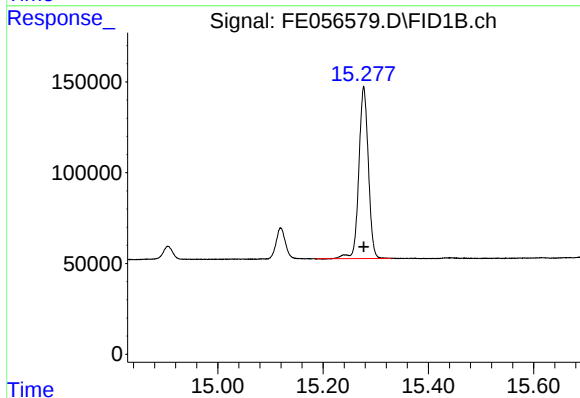
R.T.: 13.417 min
Delta R.T.: 0.000 min
Response: 853728
Conc: 5.30 ug/ml



#13 n-Docosane (C22)

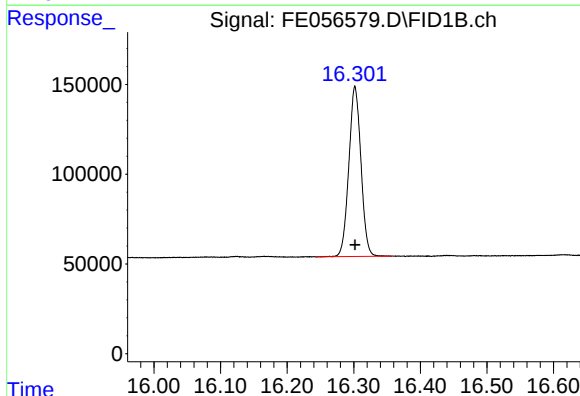
R.T.: 14.171 min
Delta R.T.: 0.000 min
Response: 1047683
Conc: 5.60 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



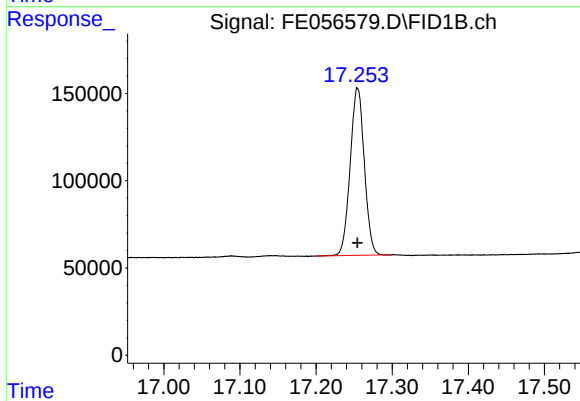
#14 n-Tetracosane (C24)

R.T.: 15.277 min
Delta R.T.: 0.000 min
Response: 1186109
Conc: 6.06 ug/ml



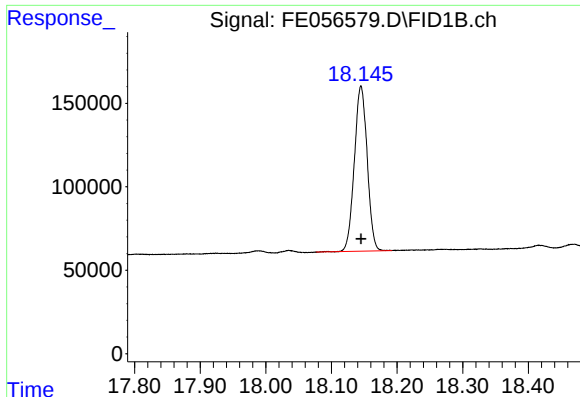
#15 n-Hexacosane (C26)

R.T.: 16.302 min
Delta R.T.: 0.000 min
Response: 1195552
Conc: 6.15 ug/ml



#16 n-Octacosane (C28)

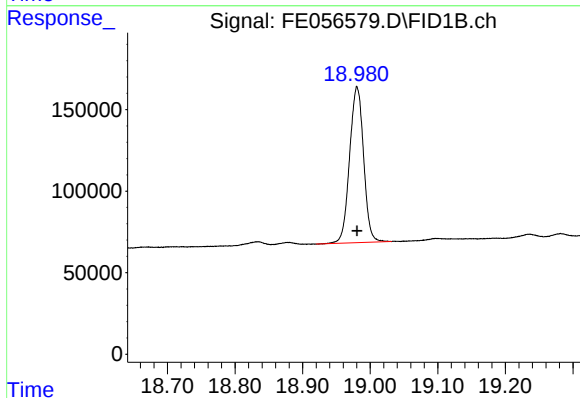
R.T.: 17.255 min
Delta R.T.: 0.000 min
Response: 1236772
Conc: 6.39 ug/ml



#17 n-Tricontane (C30)

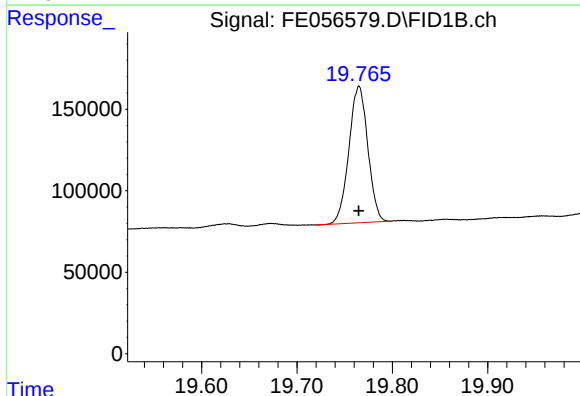
R.T.: 18.145 min
Delta R.T.: 0.000 min
Response: 1343777
Conc: 6.70 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



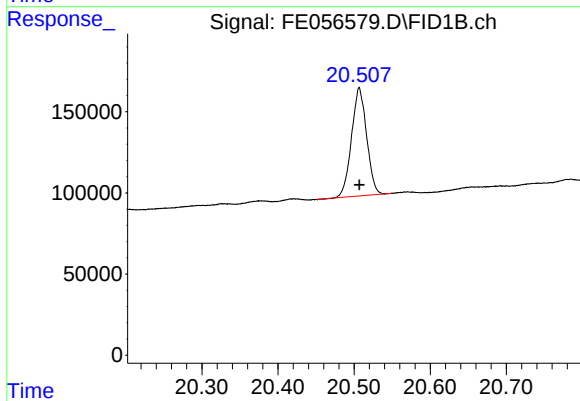
#18 n-Dotriacontane (C32)

R.T.: 18.981 min
Delta R.T.: 0.000 min
Response: 1374204
Conc: 6.99 ug/ml



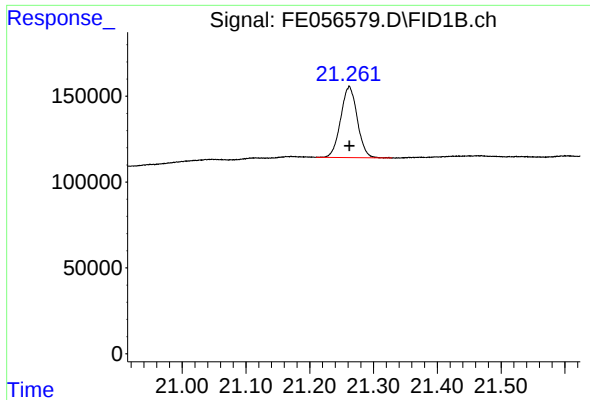
#19 n-Tetratriacontane (C34)

R.T.: 19.765 min
Delta R.T.: 0.000 min
Response: 1156477
Conc: 6.70 ug/ml



#20 n-Hexatriacontane (C36)

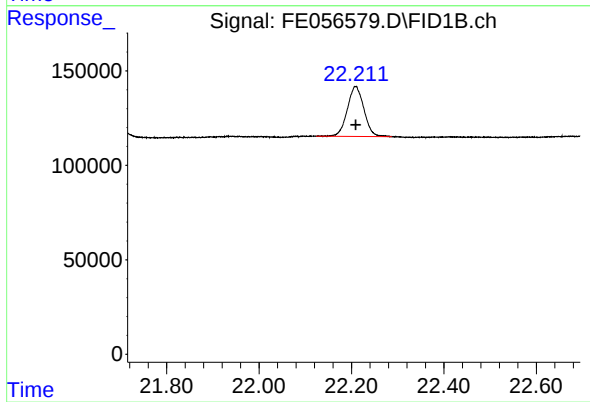
R.T.: 20.507 min
Delta R.T.: 0.000 min
Response: 919020
Conc: 6.35 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 747858
Conc: 5.94 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.209 min
Delta R.T.: 0.000 min
Response: 655889
Conc: 5.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056579.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 12:21
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.333	3.303	3.377	BB	92471	897930	65.34%	4.024%
2	4.585	4.545	4.619	BBA	95384	917558	66.77%	4.112%
3	6.303	6.268	6.377	BB	88968	951651	69.25%	4.264%
4	6.757	6.700	6.800	BB	95428	919808	66.93%	4.122%
5	7.403	7.347	7.487	BB	80203	894288	65.08%	4.007%
6	8.592	8.540	8.642	BB	88772	925756	67.37%	4.148%
7	10.206	10.138	10.265	BB	89800	963615	70.12%	4.318%
8	11.654	11.588	11.710	BB	89973	1006643	73.25%	4.511%
9	11.979	11.920	12.035	BB	104613	1115676	81.19%	4.999%
10	12.969	12.905	13.018	BB	87940	1012155	73.65%	4.536%
11	13.417	13.363	13.465	BB	72050	853728	62.13%	3.826%
12	13.582	13.517	13.635	BB	85261	993871	72.32%	4.454%
13	14.171	14.145	14.218	VB	86814	1047683	76.24%	4.695%
14	15.277	15.187	15.330	BB	94557	1186109	86.31%	5.315%
15	16.302	16.243	16.357	BB	94717	1195552	87.00%	5.357%
16	17.255	17.200	17.299	BBA	95523	1236772	90.00%	5.542%
17	18.145	18.077	18.192	BB	99085	1343777	97.79%	6.022%
18	18.981	18.920	19.032	BB	95776	1374204	100.00%	6.158%
19	19.765	19.720	19.799	BBA	84124	1156477	84.16%	5.182%
20	20.507	20.450	20.549	BBA	66647	919020	66.88%	4.118%
21	21.262	21.210	21.328	BB	41776	747858	54.42%	3.351%
22	22.209	22.123	22.287	BB	26317	655889	47.73%	2.939%
Sum of corrected areas:							22316018	

Aliphatic EPH 103025.M Thu Oct 30 12:59:22 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056580.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 12:51
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 30 13:21:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.979	3698663	17.704 ug/ml
Spiked Amount 50.000		Recovery =	35.41%
12) S 1-chlorooctadecane (S...	13.417	2853138	17.708 ug/ml
Spiked Amount 50.000		Recovery =	35.42%
Target Compounds			
1) T n-Nonane (C9)	3.331	2974720	17.711 ug/ml
2) T n-Decane (C10)	4.584	3032863	17.675 ug/ml
3) T A~Naphthalene (C11.7)	6.301	3268504	17.707 ug/ml
4) T n-Dodecane (C12)	6.757	3080927	17.714 ug/ml
5) T A~2-methylnaphthalene...	7.401	3138399	17.709 ug/ml
6) T n-Tetradecane (C14)	8.592	3087511	17.688 ug/ml
7) T n-Hexadecane (C16)	10.206	3246411	17.744 ug/ml
8) T n-Octadecane (C18)	11.655	3352800	17.714 ug/ml
10) T n-Eicosane (C20)	12.969	3290342	17.656 ug/ml
11) T n-Heneicosane (C21)	13.583	3256292	17.709 ug/ml
13) T n-Docosane (C22)	14.171	3252345	17.374 ug/ml
14) T n-Tetracosane (C24)	15.279	3265557	16.673 ug/ml
15) T n-Hexacosane (C26)	16.303	3203978	16.487 ug/ml
16) T n-Octacosane (C28)	17.256	3101810	16.017 ug/ml
17) T n-Tricontane (C30)	18.145	3129479	15.609 ug/ml
18) T n-Dotriacontane (C32)	18.980	2966227	15.084 ug/ml
19) T n-Tetratriacontane (C34)	19.765	2678828	15.520 ug/ml
20) T n-Hexatriacontane (C36)	20.508	2321116	16.046 ug/ml
21) T n-Octatriacontane (C38)	21.262	2080984	16.534 ug/ml
22) T n-Tetracontane (C40)	22.209	1952947	16.892 ug/ml

(f)=RT Delta > 1/2 Window

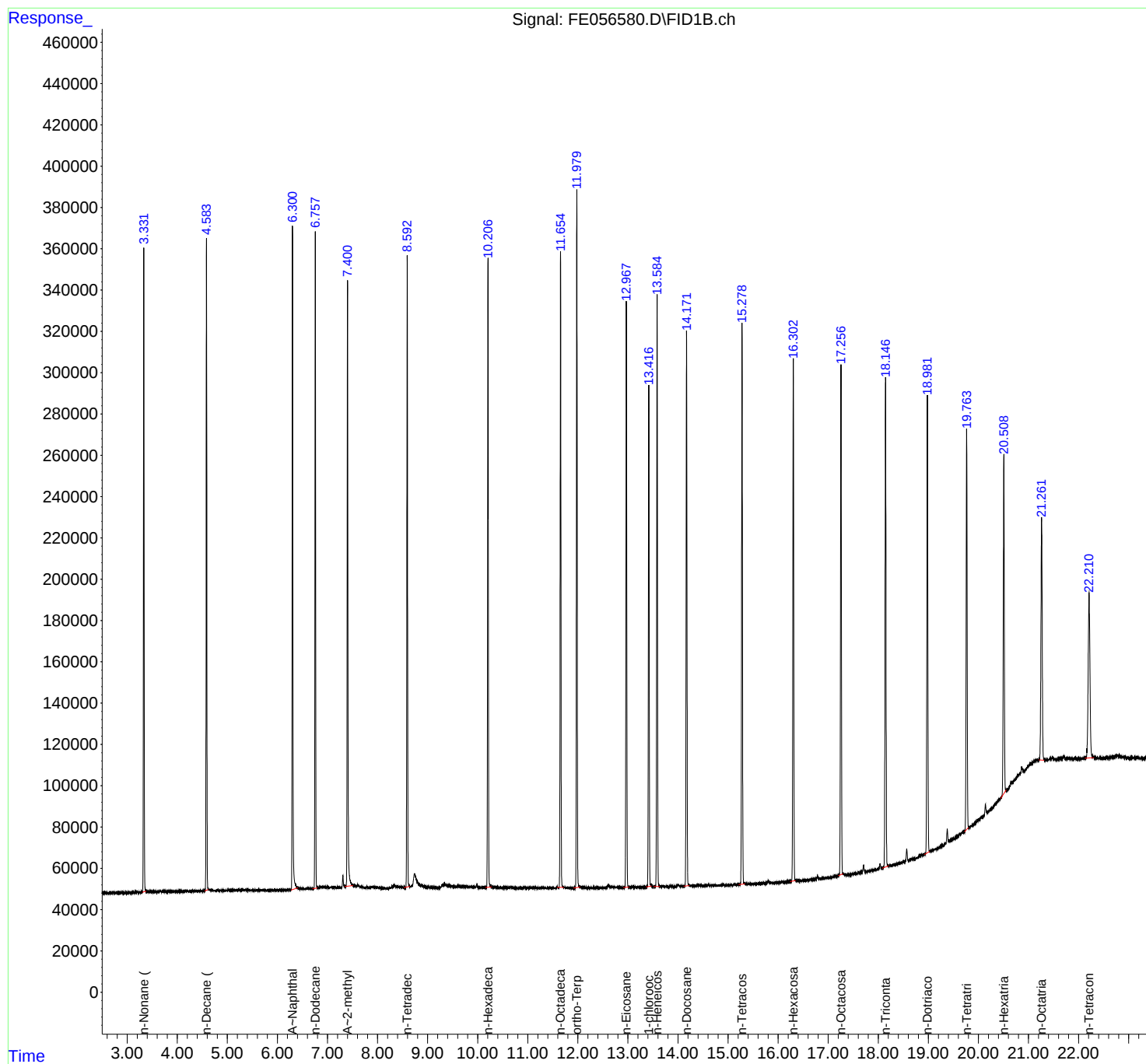
(m)=manual int.

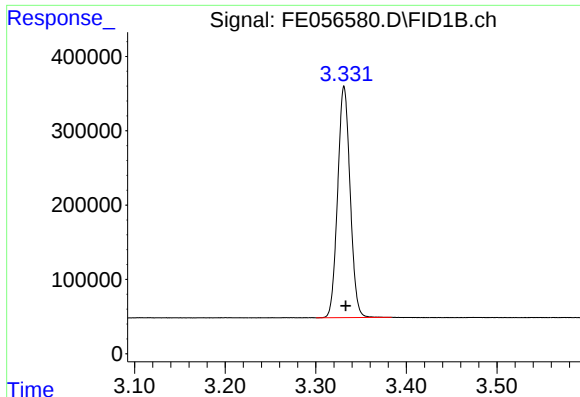
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
Data File : FE056580.D
Signal(s) : FID1B.ch
Acq On : 30 Oct 2025 12:51
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 30 13:21:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

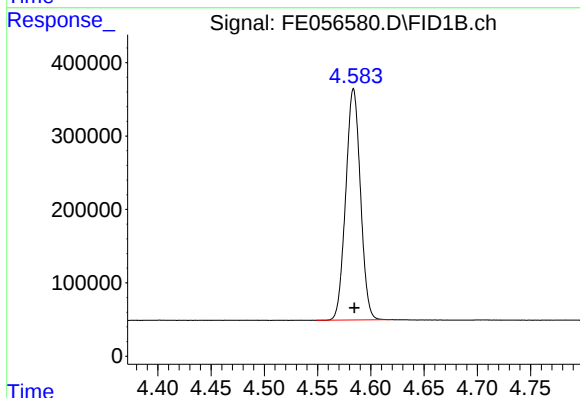
R.T.: 3.331 min
Delta R.T.: -0.002 min
Response: 2974720
Conc: 17.71 ug/ml

Instrument :

FID_E

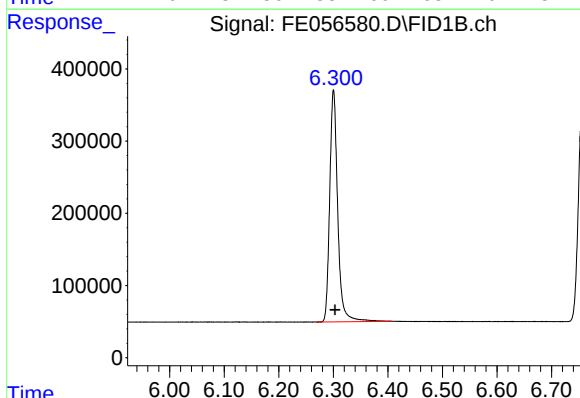
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



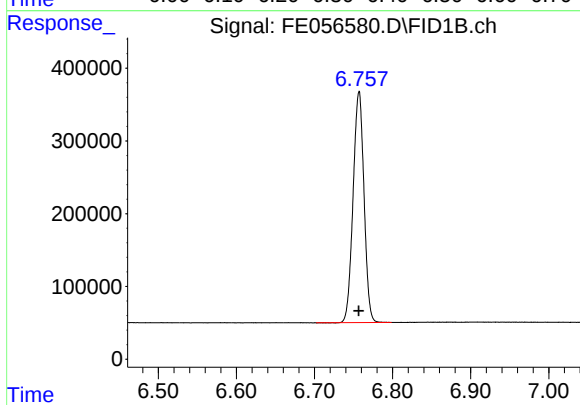
#2 n-Decane (C10)

R.T.: 4.584 min
Delta R.T.: 0.000 min
Response: 3032863
Conc: 17.67 ug/ml



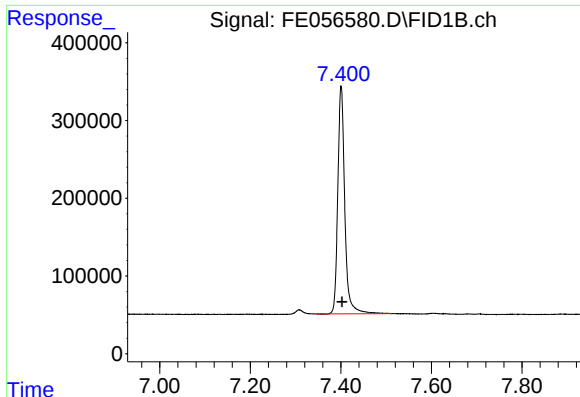
#3 A~Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: -0.003 min
Response: 3268504
Conc: 17.71 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 3080927
Conc: 17.71 ug/ml



#5 A~2-methylnaphthalene (C12.89)

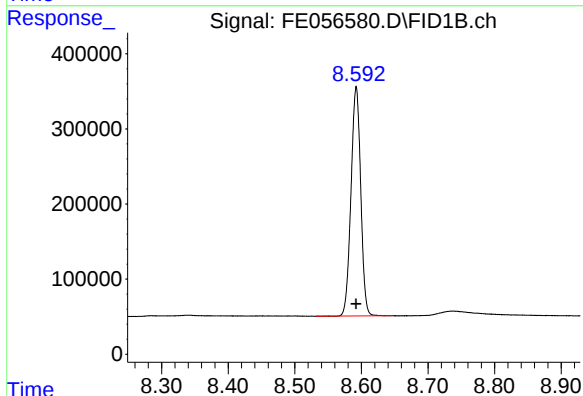
R.T.: 7.401 min
Delta R.T.: -0.002 min
Response: 3138399
Conc: 17.71 ug/ml

Instrument :

FID_E

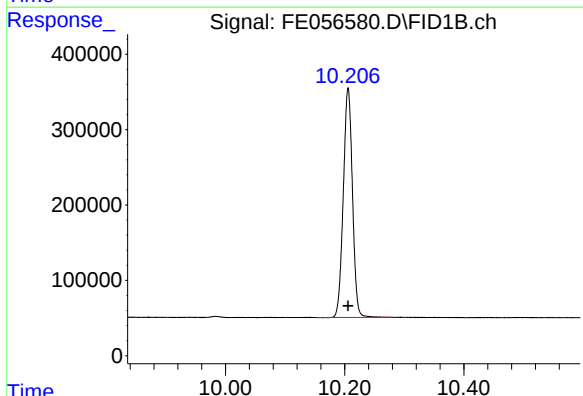
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



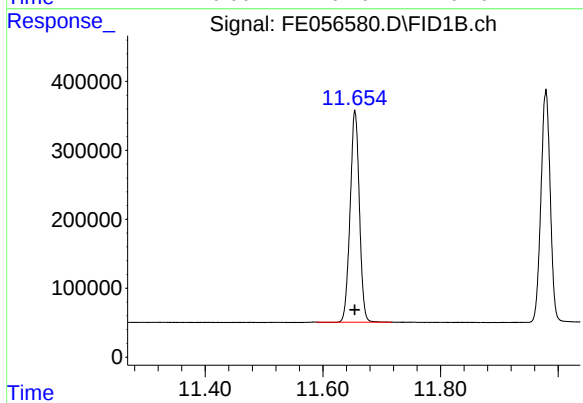
#6 n-Tetradecane (C14)

R.T.: 8.592 min
Delta R.T.: 0.000 min
Response: 3087511
Conc: 17.69 ug/ml



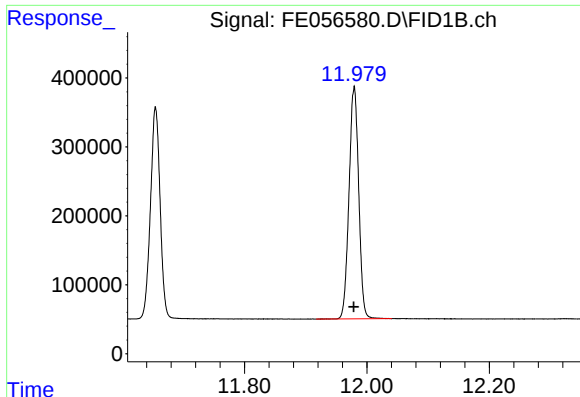
#7 n-Hexadecane (C16)

R.T.: 10.206 min
Delta R.T.: 0.000 min
Response: 3246411
Conc: 17.74 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.655 min
Delta R.T.: 0.000 min
Response: 3352800
Conc: 17.71 ug/ml



#9 ortho-Terphenyl (SURR)

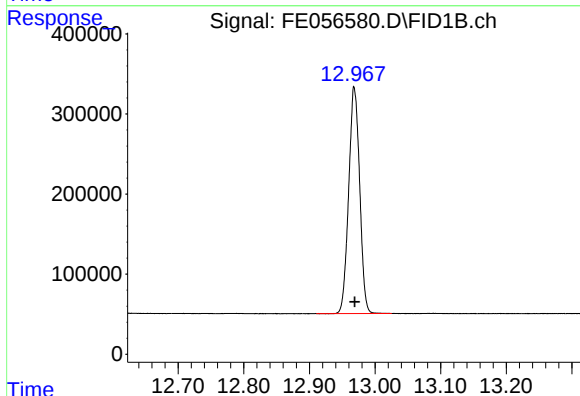
R.T.: 11.979 min
Delta R.T.: 0.000 min
Response: 3698663
Conc: 17.70 ug/ml

Instrument :

FID_E

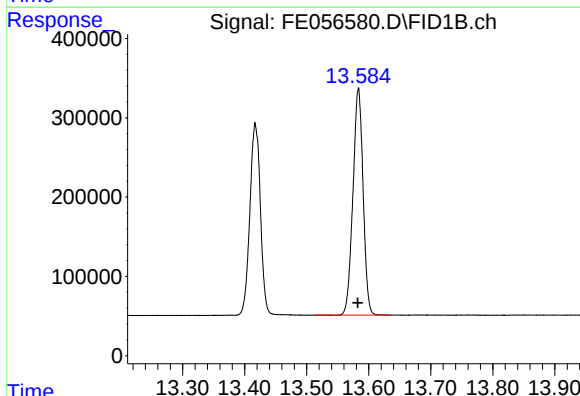
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



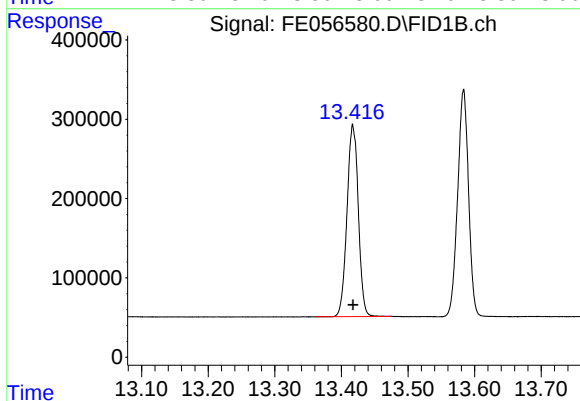
#10 n-Eicosane (C20)

R.T.: 12.969 min
Delta R.T.: 0.000 min
Response: 3290342
Conc: 17.66 ug/ml



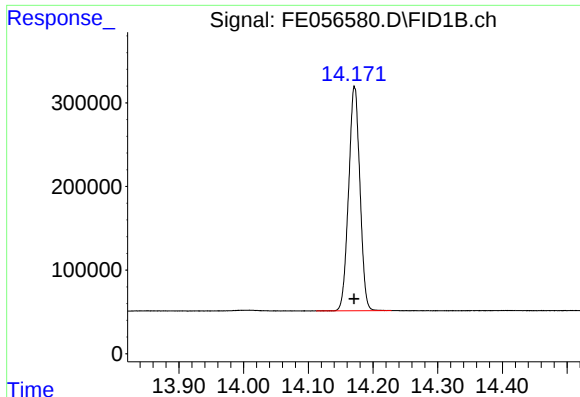
#11 n-Heneicosane (C21)

R.T.: 13.583 min
Delta R.T.: 0.001 min
Response: 3256292
Conc: 17.71 ug/ml



#12 1-chlorooctadecane (SURR)

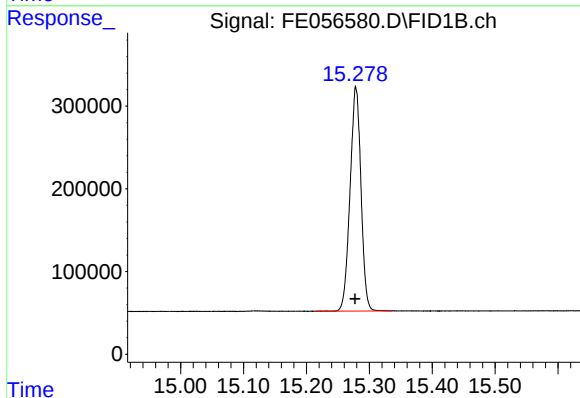
R.T.: 13.417 min
Delta R.T.: 0.000 min
Response: 2853138
Conc: 17.71 ug/ml



#13 n-Docosane (C22)

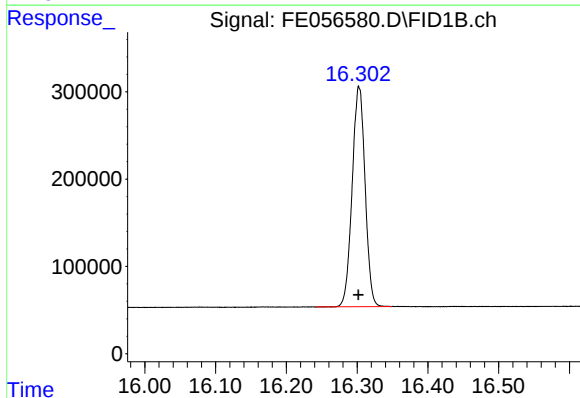
R.T.: 14.171 min
Delta R.T.: 0.000 min
Response: 3252345
Conc: 17.37 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



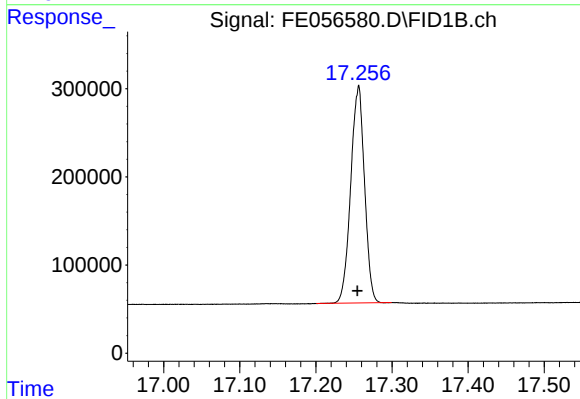
#14 n-Tetracosane (C24)

R.T.: 15.279 min
Delta R.T.: 0.001 min
Response: 3265557
Conc: 16.67 ug/ml



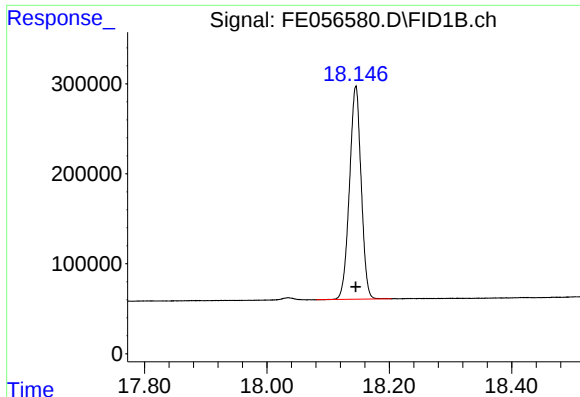
#15 n-Hexacosane (C26)

R.T.: 16.303 min
Delta R.T.: 0.000 min
Response: 3203978
Conc: 16.49 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.256 min
Delta R.T.: 0.001 min
Response: 3101810
Conc: 16.02 ug/ml



#17 n-Tricontane (C30)

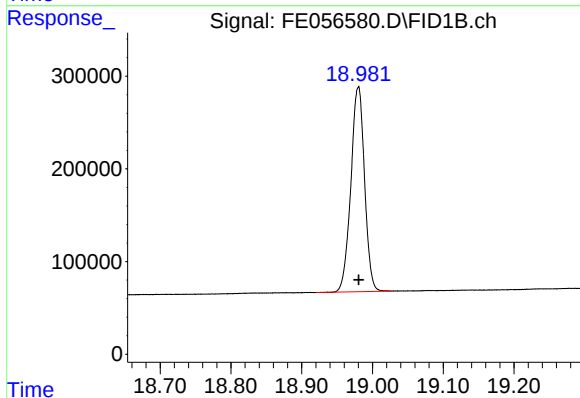
R.T.: 18.145 min
Delta R.T.: 0.000 min
Response: 3129479
Conc: 15.61 ug/ml

Instrument :

FID_E

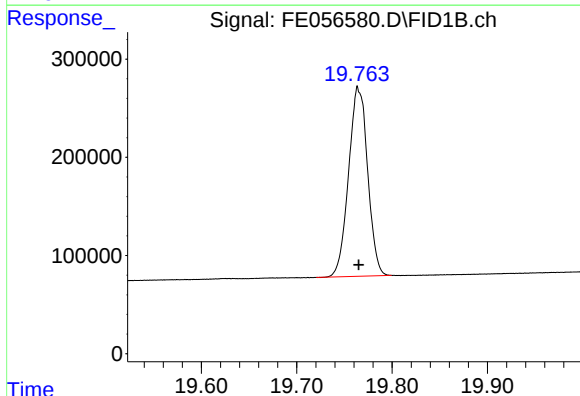
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



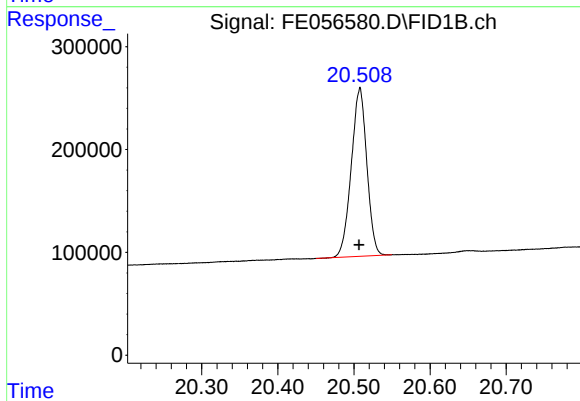
#18 n-Dotriacontane (C32)

R.T.: 18.980 min
Delta R.T.: 0.000 min
Response: 2966227
Conc: 15.08 ug/ml



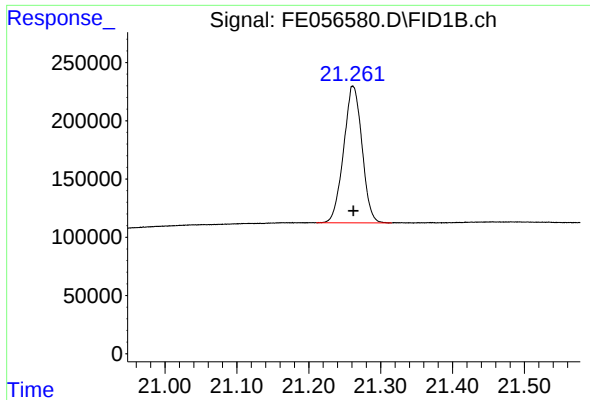
#19 n-Tetratriacontane (C34)

R.T.: 19.765 min
Delta R.T.: 0.000 min
Response: 2678828
Conc: 15.52 ug/ml



#20 n-Hexatriacontane (C36)

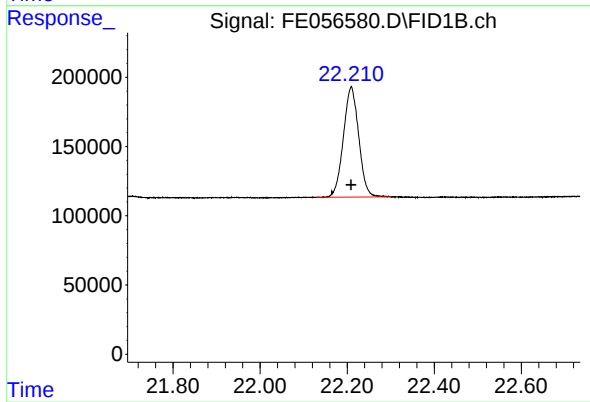
R.T.: 20.508 min
Delta R.T.: 0.000 min
Response: 2321116
Conc: 16.05 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.262 min
Delta R.T.: 0.000 min
Response: 2080984
Conc: 16.53 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.209 min
Delta R.T.: 0.000 min
Response: 1952947
Conc: 16.89 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103025AL\
 Data File : FE056580.D
 Signal(s) : FID1B.ch
 Acq On : 30 Oct 2025 12:51
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.331	3.300	3.384	BB	310481	2974720	80.43%	4.491%
2	4.584	4.549	4.620	BBA	315244	3032863	82.00%	4.579%
3	6.301	6.269	6.407	BB	321401	3268504	88.37%	4.935%
4	6.757	6.702	6.799	BB	318158	3080927	83.30%	4.652%
5	7.401	7.345	7.512	BB	293420	3138399	84.85%	4.738%
6	8.592	8.532	8.645	BB	305141	3087511	83.48%	4.662%
7	10.206	10.152	10.279	BB	304154	3246411	87.77%	4.901%
8	11.655	11.589	11.717	BB	305409	3352800	90.65%	5.062%
9	11.979	11.917	12.040	BB	334249	3698663	100.00%	5.584%
10	12.969	12.910	13.025	BB	280820	3290342	88.96%	4.968%
11	13.417	13.362	13.475	BB	241413	2853138	77.14%	4.308%
12	13.583	13.515	13.637	BB	286535	3256292	88.04%	4.916%
13	14.171	14.112	14.229	BB	266967	3252345	87.93%	4.910%
14	15.279	15.215	15.335	BB	270242	3265557	88.29%	4.930%
15	16.303	16.242	16.349	BB	253168	3203978	86.63%	4.837%
16	17.256	17.200	17.300	BBA	243564	3101810	83.86%	4.683%
17	18.145	18.080	18.204	BB	236990	3129479	84.61%	4.725%
18	18.980	18.920	19.027	BB	221501	2966227	80.20%	4.478%
19	19.765	19.720	19.800	BBA	187610	2678828	72.43%	4.044%
20	20.508	20.450	20.550	BBA	162660	2321116	62.76%	3.504%
21	21.262	21.210	21.315	BB	117144	2080984	56.26%	3.142%
22	22.209	22.129	22.302	BB	79731	1952947	52.80%	2.949%
Sum of corrected areas:							66233841	

Aliphatic EPH 103025.M Thu Oct 30 13:22:51 2025

Continuing Calibration Report for SequenceID : FC103125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC070104.D

Aliphatic C9-C12	8770301.000	60.000	3.281	6.574	146171.683	144785.198	-0.958
Aliphatic C12-C16	6495222.000	40.000	6.575	9.976	162380.550	163782.335	0.856
Aliphatic C16-C21	9605434.000	60.000	9.977	13.346	160090.567	161945.502	1.145
Aliphatic C21-C28	11040604.000	80.000	13.347	17.012	138007.550	147142.336	6.208
Aliphatic C28-C40	11953969.000	120.000	17.013	21.974	99616.408	107599.833	7.420
Aliphatic EPH	47865530.000	360.000	3.281	21.974	132959.806	137884.728	3.572

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Oct 2025 15:17
Client Sample ID:		Operator:	YP/AJ
Data file:	FC070104.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.281	6.574	8770301.000	60.000	ug/ml
Aliphatic C12-C16	6.575	9.976	6495222.000	40.000	ug/ml
Aliphatic C16-C21	9.977	13.346	9605434.000	60.000	ug/ml
Aliphatic C21-C28	13.347	17.012	11040604.000	80.000	ug/ml
Aliphatic C28-C40	17.013	21.974	11953969.000	120.000	ug/ml
Aliphatic EPH	3.281	21.974	47865530.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070104.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 15:17
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Nov 01 04:08:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.642	3435587	19.564 ug/ml
Spiked Amount 50.000		Recovery =	39.13%
12) S 1-chlorooctadecane (S...	13.077	2656110	19.567 ug/ml
Spiked Amount 50.000		Recovery =	39.13%
Target Compounds			
1) T n-Nonane (C9)	3.380	2776562	20.220 ug/ml
2) T n-Decane (C10)	4.451	2912438	20.259 ug/ml
3) T A~Naphthalene (C11.7)	6.045	3209572	19.859 ug/ml
4) T n-Dodecane (C12)	6.473	3081301	20.103 ug/ml
5) T A~2-methylnaphthalene...	7.103	3132482	19.633 ug/ml
6) T n-Tetradecane (C14)	8.271	3166568	19.910 ug/ml
7) T n-Hexadecane (C16)	9.875	3328654	19.752 ug/ml
8) T n-Octadecane (C18)	11.320	3368763	19.801 ug/ml
10) T n-Eicosane (C20)	12.631	3168149	19.747 ug/ml
11) T n-Heneicosane (C21)	13.244	3068522	19.762 ug/ml
13) T n-Docosane (C22)	13.832	2996628	19.472 ug/ml
14) T n-Tetracosane (C24)	14.936	2861272	18.870 ug/ml
15) T n-Hexacosane (C26)	15.960	2685350	18.553 ug/ml
16) T n-Octacosane (C28)	16.912	2497354	18.057 ug/ml
17) T n-Tricontane (C30)	17.799	2440701	17.876 ug/ml
18) T n-Dotriacontane (C32)	18.635	2278256	17.670 ug/ml
19) T n-Tetratriacontane (C34)	19.418	2083805	18.263 ug/ml
20) T n-Hexatriacontane (C36)	20.158	1830633	18.929 ug/ml
21) T n-Octatriacontane (C38)	20.919	1695431	19.452 ug/ml
22) T n-Tetracontane (C40)	21.873	1625143	19.780 ug/ml

(f)=RT Delta > 1/2 Window

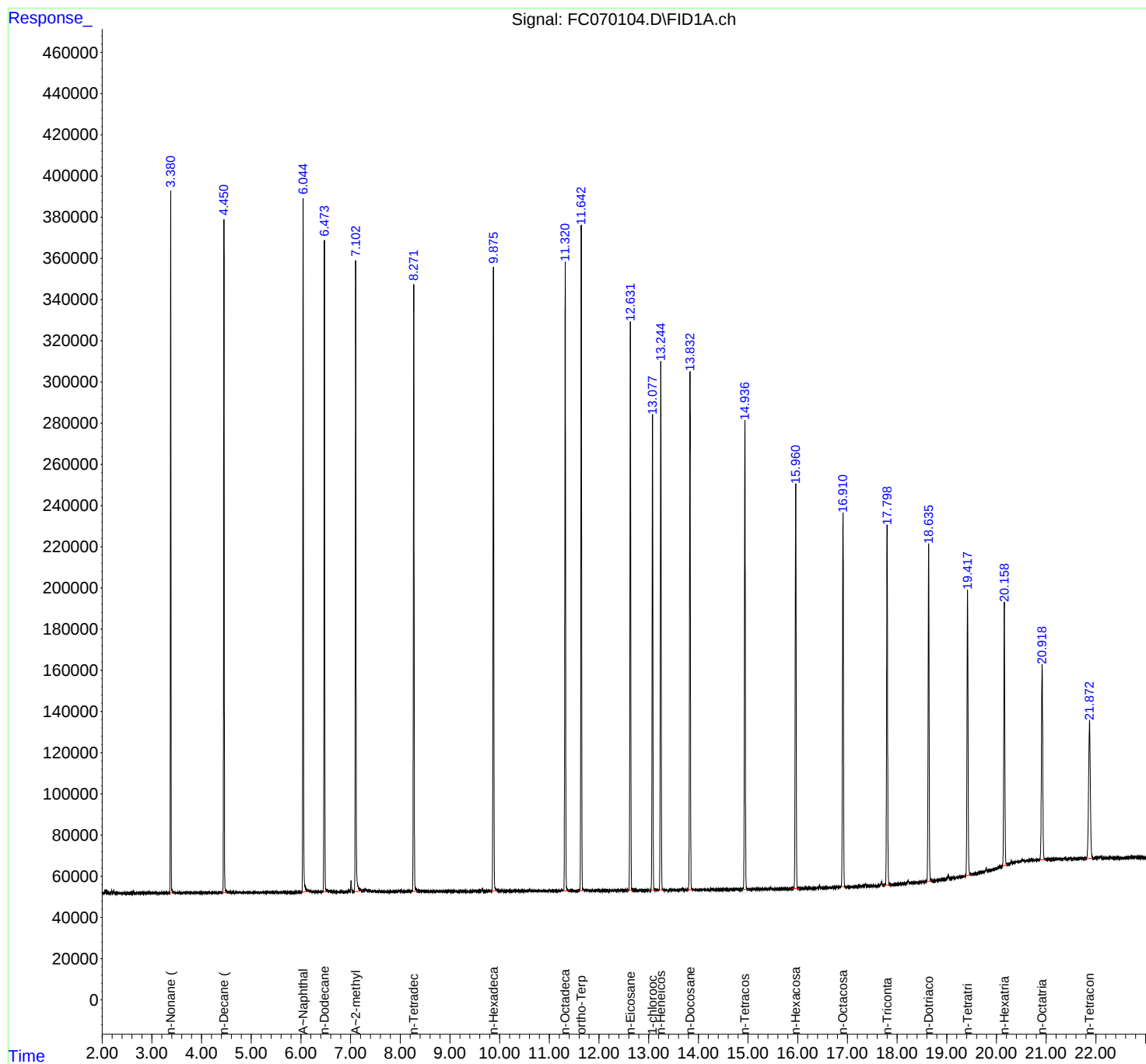
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070104.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 15:17
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 01 04:08:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070104.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 15:17
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.380	3.347	3.442	BB	340859	2776562	80.82%	4.605%
2	4.451	4.420	4.524	BB	326656	2912438	84.77%	4.830%
3	6.045	6.014	6.159	BB	337355	3209572	93.42%	5.323%
4	6.473	6.440	6.544	BB	316915	3081301	89.69%	5.110%
5	7.103	7.064	7.229	BB	305735	3132482	91.18%	5.195%
6	8.271	8.237	8.359	BB	294192	3166568	92.17%	5.251%
7	9.875	9.819	9.960	BB	302291	3328654	96.89%	5.520%
8	11.320	11.275	11.399	BB	306541	3368763	98.05%	5.587%
9	11.642	11.579	11.709	BB	322956	3435587	100.00%	5.698%
10	12.631	12.567	12.684	BB	276441	3168149	92.22%	5.254%
11	13.077	13.010	13.137	BB	230684	2656110	77.31%	4.405%
12	13.244	13.180	13.305	BB	256207	3068522	89.32%	5.089%
13	13.832	13.767	13.894	BB	251479	2996628	87.22%	4.970%
14	14.936	14.867	14.995	BB	228356	2861272	83.28%	4.745%
15	15.960	15.889	16.017	BB	197268	2685350	78.16%	4.453%
16	16.912	16.870	16.970	BB	181095	2497354	72.69%	4.142%
17	17.799	17.727	17.870	BB	174573	2440701	71.04%	4.048%
18	18.635	18.590	18.705	BB	164580	2278256	66.31%	3.778%
19	19.418	19.345	19.504	BB	138640	2083805	60.65%	3.456%
20	20.158	20.120	20.225	BB	127936	1830633	53.28%	3.036%
21	20.919	20.860	20.994	BB	94722	1695431	49.35%	2.812%
22	21.873	21.780	21.957	BB	67261	1625143	47.30%	2.695%
Sum of corrected areas:						60299280		

Aliphatic EPH 100725.M Sat Nov 01 05:07:46 2025

Continuing Calibration Report for SequenceID : FC103125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC070113.D

Aliphatic C9-C12	7580853.000	60.000	3.281	6.574	126347.550	144785.198	12.734
Aliphatic C12-C16	5703629.000	40.000	6.575	9.976	142590.725	163782.335	12.939
Aliphatic C16-C21	8498697.000	60.000	9.977	13.346	141644.950	161945.502	12.535
Aliphatic C21-C28	10333032.000	80.000	13.347	17.012	129162.900	147142.336	12.219
Aliphatic C28-C40	13191170.000	120.000	17.013	21.974	109926.417	107599.833	-2.162
Aliphatic EPH	45307381.000	360.000	3.281	21.974	125853.836	137884.728	8.725

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Oct 2025 22:21
Client Sample ID:		Operator:	YP/AJ
Data file:	FC070113.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.281	6.574	7580853.000	60.000	ug/ml
Aliphatic C12-C16	6.575	9.976	5703629.000	40.000	ug/ml
Aliphatic C16-C21	9.977	13.346	8498697.000	60.000	ug/ml
Aliphatic C21-C28	13.347	17.012	10333032.000	80.000	ug/ml
Aliphatic C28-C40	17.013	21.974	13191170.000	120.000	ug/ml
Aliphatic EPH	3.281	21.974	45307381.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070113.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 22:21
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Nov 03 00:20:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.640	3030579	17.258 ug/ml
Spiked Amount 50.000		Recovery =	34.52%
12) S 1-chlorooctadecane (S...	13.076	2347049	17.290 ug/ml
Spiked Amount 50.000		Recovery =	34.58%
Target Compounds			
1) T n-Nonane (C9)	3.380	2353115	17.136 ug/ml
2) T n-Decane (C10)	4.450	2542075	17.683 ug/ml
3) T A~Naphthalene (C11.7)	6.044	2773792	17.163 ug/ml
4) T n-Dodecane (C12)	6.472	2685663	17.522 ug/ml
5) T A~2-methylnaphthalene...	7.102	2720614	17.052 ug/ml
6) T n-Tetradecane (C14)	8.270	2769870	17.416 ug/ml
7) T n-Hexadecane (C16)	9.874	2933759	17.409 ug/ml
8) T n-Octadecane (C18)	11.319	2968953	17.451 ug/ml
10) T n-Eicosane (C20)	12.630	2811132	17.522 ug/ml
11) T n-Heneicosane (C21)	13.242	2718612	17.509 ug/ml
13) T n-Docosane (C22)	13.830	2690200	17.481 ug/ml
14) T n-Tetracosane (C24)	14.934	2650945	17.483 ug/ml
15) T n-Hexacosane (C26)	15.957	2515290	17.378 ug/ml
16) T n-Octacosane (C28)	16.908	2476597	17.907 ug/ml
17) T n-Tricontane (C30)	17.798	2701905	19.789 ug/ml
18) T n-Dotriacontane (C32)	18.632	2741915	21.266 ug/ml
19) T n-Tetratriacontane (C34)	19.416	2456153	21.526 ug/ml
20) T n-Hexatriacontane (C36)	20.155	1996753	20.647 ug/ml
21) T n-Octatriacontane (C38)	20.914	1728161	19.828 ug/ml
22) T n-Tetracontane (C40)	21.868	1566283	19.063 ug/ml

(f)=RT Delta > 1/2 Window

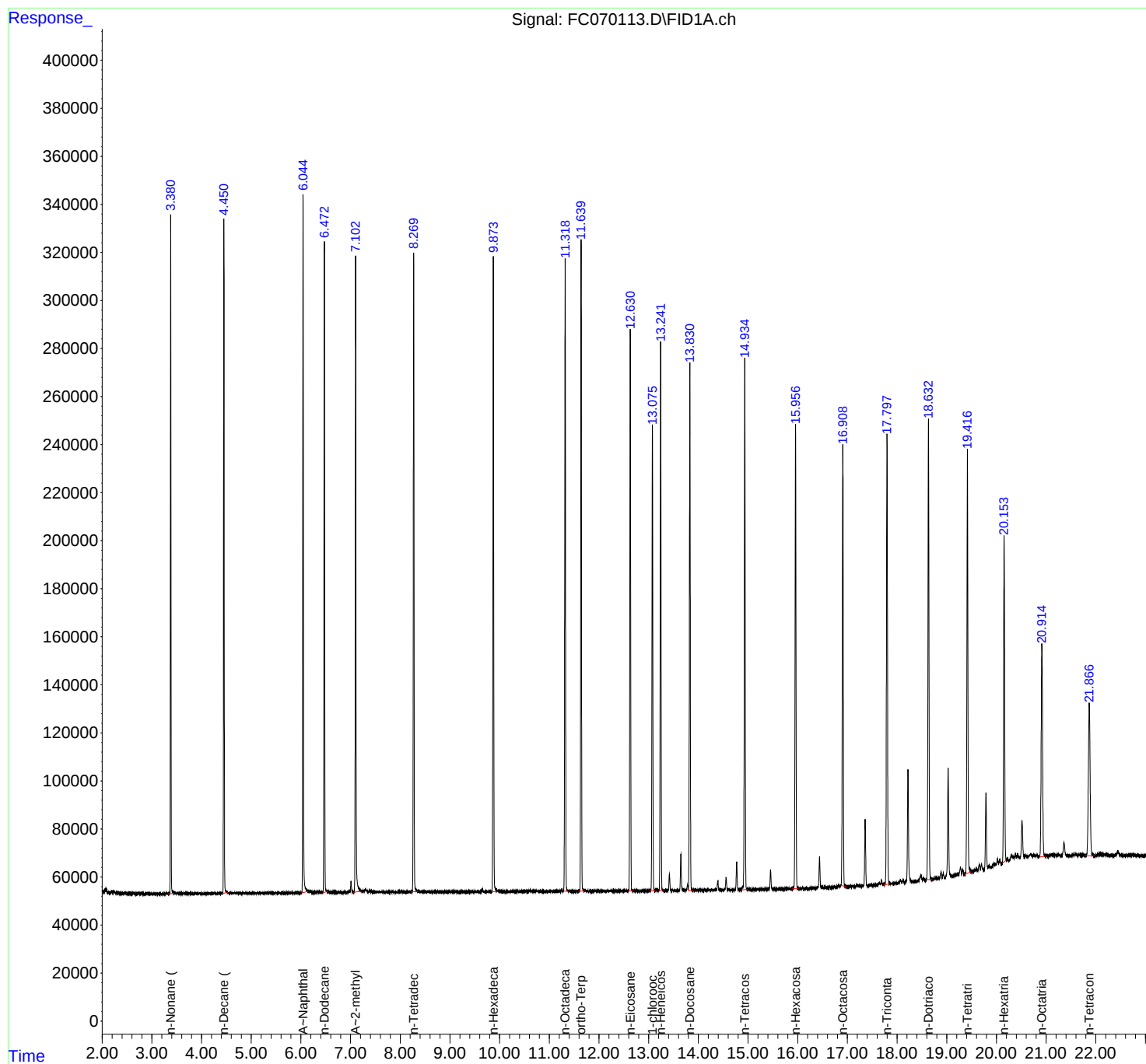
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070113.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 22:21
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 03 00:20:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070113.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 22:21
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.380	3.324	3.449	BB	282808	2353115	77.65%	4.189%
2	4.450	4.419	4.532	BB	280517	2542075	83.88%	4.525%
3	6.044	6.012	6.147	BB	290451	2773792	91.53%	4.937%
4	6.472	6.440	6.534	BB	270510	2685663	88.62%	4.781%
5	7.102	7.064	7.230	BB	264462	2720614	89.77%	4.843%
6	8.270	8.219	8.359	BB	265753	2769870	91.40%	4.930%
7	9.874	9.837	9.959	BB	264525	2933759	96.81%	5.222%
8	11.319	11.280	11.387	BB	263377	2968953	97.97%	5.285%
9	11.640	11.579	11.710	BB	270564	3030579	100.00%	5.394%
10	12.630	12.590	12.687	BB	233985	2811132	92.76%	5.004%
11	13.076	13.022	13.130	BB	194191	2347049	77.45%	4.178%
12	13.242	13.202	13.299	BB	228591	2718612	89.71%	4.839%
13	13.830	13.797	13.892	VB	219929	2690200	88.77%	4.789%
14	14.934	14.862	14.987	BB	221106	2650945	87.47%	4.719%
15	15.957	15.889	16.007	BB	193249	2515290	83.00%	4.477%
16	16.908	16.870	16.972	BB	183637	2476597	81.72%	4.408%
17	17.798	17.727	17.849	BB	187530	2701905	89.15%	4.809%
18	18.632	18.590	18.702	BB	191986	2741915	90.47%	4.881%
19	19.416	19.359	19.500	BB	176695	2456153	81.05%	4.372%
20	20.155	20.120	20.199	BV	134250	1996753	65.89%	3.554%
21	20.914	20.860	20.994	BV	88454	1728161	57.02%	3.076%
22	21.868	21.780	21.975	BB	63022	1566283	51.68%	2.788%
Sum of corrected areas:						56179415		

Aliphatic EPH 100725.M Mon Nov 03 00:56:40 2025

Continuing Calibration Report for SequenceID : FE103125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056611.D

Aliphatic C9-C12	9629117.000	60.000	3.227	6.853	160485.283	171162.641	6.238
Aliphatic C12-C16	6897912.000	40.000	6.854	10.303	172447.800	178754.319	3.528
Aliphatic C16-C21	10623622.000	60.000	10.304	13.679	177060.367	186505.496	5.064
Aliphatic C21-C28	13373897.000	80.000	13.680	17.352	167173.713	192766.144	13.276
Aliphatic C28-C40	16435157.000	120.000	17.353	22.305	136959.642	159314.647	14.032
Aliphatic EPH	56959705.000	360.000	3.227	22.305	158221.403	175414.751	9.802

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Oct 2025 14:58
Client Sample ID:		Operator:	YPAJ
Data file:	FE056611.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.227	6.853	9629117.000	60.000	ug/ml
Aliphatic C12-C16	6.854	10.303	6897912.000	40.000	ug/ml
Aliphatic C16-C21	10.304	13.679	10623622.000	60.000	ug/ml
Aliphatic C21-C28	13.680	17.352	13373897.000	80.000	ug/ml
Aliphatic C28-C40	17.353	22.305	16435157.000	120.000	ug/ml
Aliphatic EPH	3.227	22.305	56959705.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
 Data File : FE056611.D
 Signal(s) : FID1B.ch
 Acq On : 31 Oct 2025 14:58
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Oct 31 23:14:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.972	3953954	18.926 ug/ml
Spiked Amount 50.000		Recovery =	37.85%
12) S 1-chlorooctadecane (S...	13.411	3022638	18.761 ug/ml
Spiked Amount 50.000		Recovery =	37.52%
Target Compounds			
1) T n-Nonane (C9)	3.324	3032356	18.054 ug/ml
2) T n-Decane (C10)	4.577	3228970	18.817 ug/ml
3) T A~Naphthalene (C11.7)	6.293	3407416	18.460 ug/ml
4) T n-Dodecane (C12)	6.751	3367791	19.363 ug/ml
5) T A~2-methylnaphthalene...	7.393	3275705	18.484 ug/ml
6) T n-Tetradecane (C14)	8.586	3376033	19.341 ug/ml
7) T n-Hexadecane (C16)	10.200	3521879	19.250 ug/ml
8) T n-Octadecane (C18)	11.649	3634617	19.203 ug/ml
10) T n-Eicosane (C20)	12.963	3520745	18.892 ug/ml
11) T n-Heneicosane (C21)	13.577	3468260	18.861 ug/ml
13) T n-Docosane (C22)	14.164	3438439	18.368 ug/ml
14) T n-Tetracosane (C24)	15.271	3413163	17.426 ug/ml
15) T n-Hexacosane (C26)	16.296	3308544	17.025 ug/ml
16) T n-Octacosane (C28)	17.248	3213751	16.595 ug/ml
17) T n-Tricontane (C30)	18.139	3323251	16.575 ug/ml
18) T n-Dotriacontane (C32)	18.974	3254359	16.549 ug/ml
19) T n-Tetratriacontane (C34)	19.759	2931225	16.982 ug/ml
20) T n-Hexatriacontane (C36)	20.500	2521853	17.433 ug/ml
21) T n-Octatriacontane (C38)	21.255	2258844	17.947 ug/ml
22) T n-Tetracontane (C40)	22.201	2145625	18.559 ug/ml

(f)=RT Delta > 1/2 Window

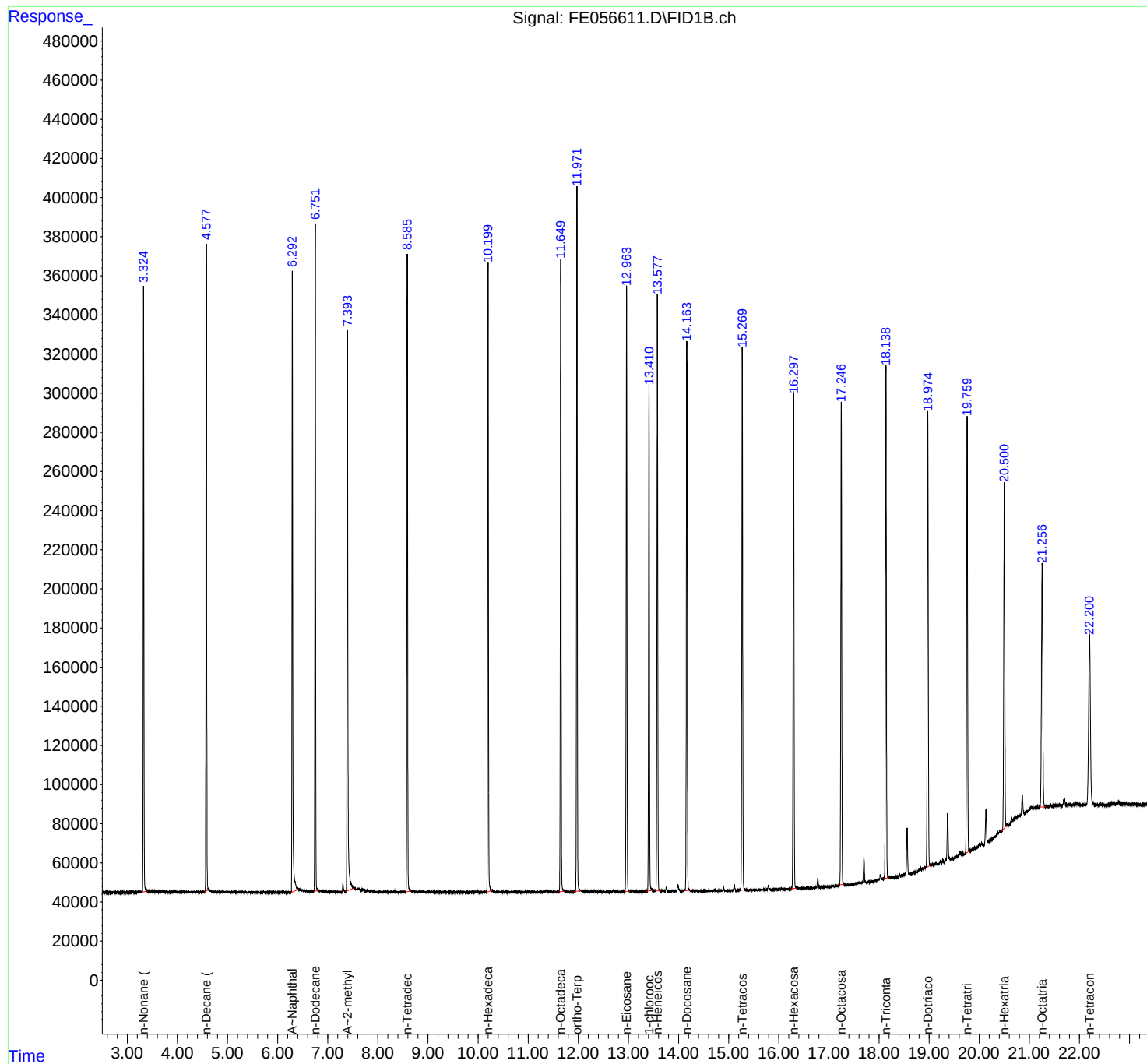
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
Data File : FE056611.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2025 14:58
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 31 23:14:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
Data File : FE056611.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2025 14:58
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.324	3.289	3.392	BB	309136	3032356	76.69%	4.294%
2	4.577	4.542	4.619	BBA	330503	3228970	81.66%	4.572%
3	6.293	6.264	6.422	BB	316840	3407416	86.18%	4.825%
4	6.751	6.720	6.810	BB	340947	3367791	85.18%	4.769%
5	7.393	7.354	7.520	BB	286301	3275705	82.85%	4.639%
6	8.586	8.552	8.664	BB	323088	3376033	85.38%	4.781%
7	10.200	10.165	10.277	BB	320749	3521879	89.07%	4.987%
8	11.649	11.612	11.720	BB	323400	3634617	91.92%	5.147%
9	11.972	11.909	12.044	BB	360039	3953954	100.00%	5.599%
10	12.963	12.920	13.027	BB	306562	3520745	89.04%	4.986%
11	13.411	13.354	13.477	BB	257981	3022638	76.45%	4.280%
12	13.577	13.539	13.637	BB	304162	3468260	87.72%	4.911%
13	14.164	14.130	14.227	BB	280259	3438439	86.96%	4.869%
14	15.271	15.209	15.340	BB	277095	3413163	86.32%	4.833%
15	16.296	16.234	16.357	BB	252693	3308544	83.68%	4.685%
16	17.248	17.200	17.299	BBA	246070	3213751	81.28%	4.551%
17	18.139	18.074	18.200	BB	262371	3323251	84.05%	4.706%
18	18.974	18.920	19.032	BB	232786	3254359	82.31%	4.608%
19	19.759	19.720	19.799	BBA	221986	2931225	74.13%	4.151%
20	20.500	20.450	20.549	BBA	175886	2521853	63.78%	3.571%
21	21.255	21.210	21.325	BB	124081	2258844	57.13%	3.199%
22	22.201	22.115	22.307	BB	86914	2145625	54.27%	3.038%
Sum of corrected areas:						70619416		

Aliphatic EPH 103025.M Sat Nov 01 00:27:11 2025

Continuing Calibration Report for SequenceID : FE103125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056623.D

Aliphatic C9-C12	9837178.000	60.000	3.227	6.853	163952.967	171162.641	4.212
Aliphatic C12-C16	6836294.000	40.000	6.854	10.303	170907.350	178754.319	4.390
Aliphatic C16-C21	10453496.000	60.000	10.304	13.679	174224.933	186505.496	6.585
Aliphatic C21-C28	13509093.000	80.000	13.680	17.352	168863.663	192766.144	12.400
Aliphatic C28-C40	15913926.000	120.000	17.353	22.305	132616.050	159314.647	16.758
Aliphatic EPH	56549987.000	360.000	3.227	22.305	157083.297	175414.751	10.450

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Oct 2025 22:33
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056623.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.227	6.853	9837178.000	60.000	ug/ml
Aliphatic C12-C16	6.854	10.303	6836294.000	40.000	ug/ml
Aliphatic C16-C21	10.304	13.679	10453496.000	60.000	ug/ml
Aliphatic C21-C28	13.680	17.352	13509093.000	80.000	ug/ml
Aliphatic C28-C40	17.353	22.305	15913926.000	120.000	ug/ml
Aliphatic EPH	3.227	22.305	56549987.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
 Data File : FE056623.D
 Signal(s) : FID1B.ch
 Acq On : 31 Oct 2025 22:33
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Oct 31 23:19:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
 Quant Title : GC Extractables
 QLast Update : Thu Oct 30 12:50:27 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.969	3905292	18.693 ug/ml
Spiked Amount 50.000		Recovery =	37.39%
12) S 1-chlorooctadecane (S...	13.408	2981578	18.506 ug/ml
Spiked Amount 50.000		Recovery =	37.01%
Target Compounds			
1) T n-Nonane (C9)	3.323	3205286	19.083 ug/ml
2) T n-Decane (C10)	4.576	3264076	19.022 ug/ml
3) T A~Naphthalene (C11.7)	6.291	3421485	18.536 ug/ml
4) T n-Dodecane (C12)	6.749	3367816	19.363 ug/ml
5) T A~2-methylnaphthalene...	7.391	3270999	18.457 ug/ml
6) T n-Tetradecane (C14)	8.584	3346876	19.174 ug/ml
7) T n-Hexadecane (C16)	10.198	3489418	19.072 ug/ml
8) T n-Octadecane (C18)	11.646	3577102	18.899 ug/ml
10) T n-Eicosane (C20)	12.960	3465438	18.595 ug/ml
11) T n-Heneicosane (C21)	13.574	3410956	18.550 ug/ml
13) T n-Docosane (C22)	14.162	3418151	18.259 ug/ml
14) T n-Tetracosane (C24)	15.269	3466228	17.697 ug/ml
15) T n-Hexacosane (C26)	16.293	3372741	17.355 ug/ml
16) T n-Octacosane (C28)	17.246	3251973	16.792 ug/ml
17) T n-Tricontane (C30)	18.135	3231427	16.117 ug/ml
18) T n-Dotriacontane (C32)	18.970	3075127	15.638 ug/ml
19) T n-Tetratriacontane (C34)	19.755	2754614	15.959 ug/ml
20) T n-Hexatriacontane (C36)	20.497	2416134	16.703 ug/ml
21) T n-Octatriacontane (C38)	21.251	2258588	17.945 ug/ml
22) T n-Tetracontane (C40)	22.195	2178036	18.839 ug/ml

(f)=RT Delta > 1/2 Window

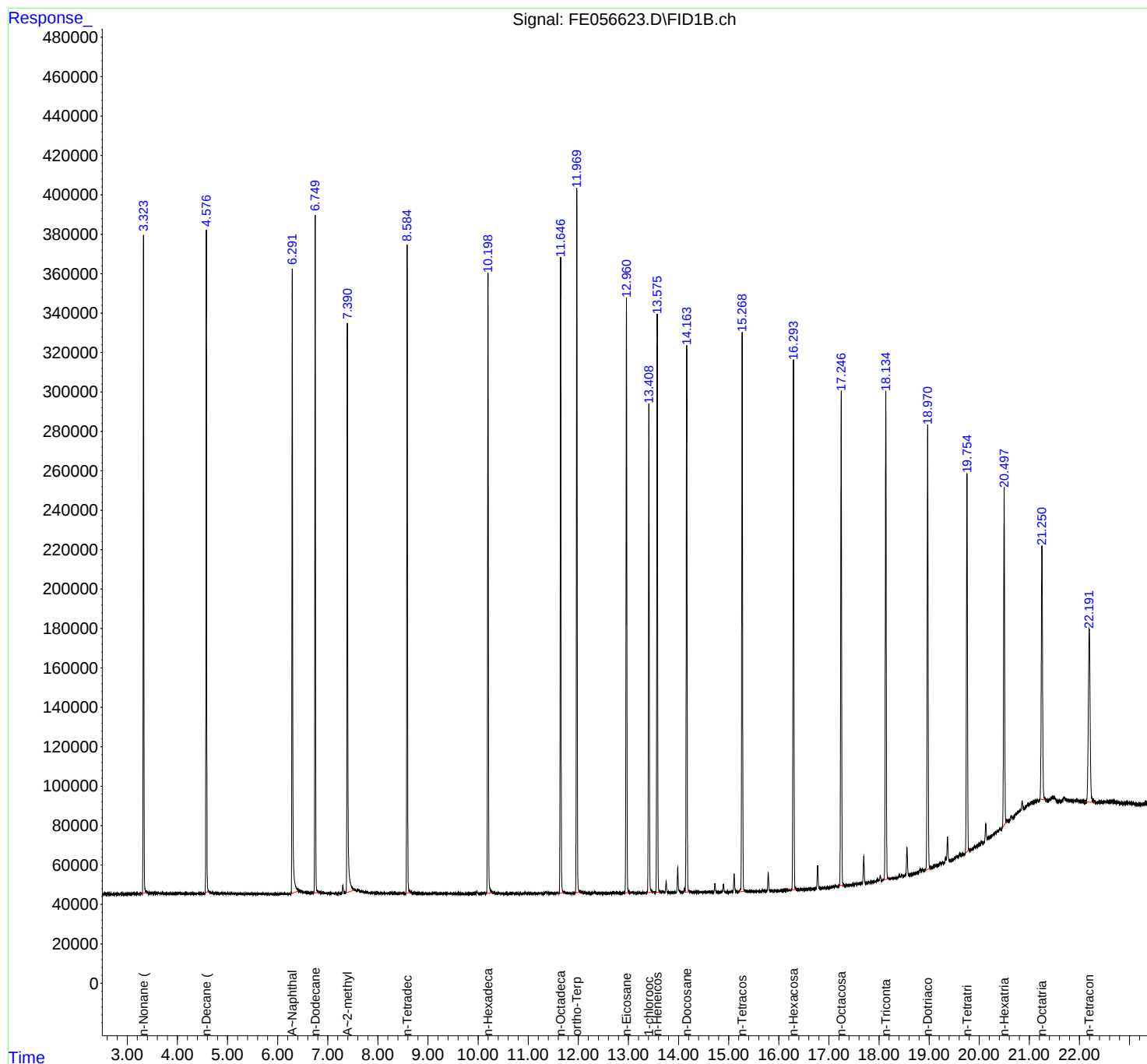
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
Data File : FE056623.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2025 22:33
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 31 23:19:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Quant Title : GC Extractables
QLast Update : Thu Oct 30 12:50:27 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE103125AL\
Data File : FE056623.D
Signal(s) : FID1B.ch
Acq On : 31 Oct 2025 22:33
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 103025.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.323	3.294	3.385	BB	333632	3205286	82.08%	4.571%
2	4.576	4.534	4.619	BBA	336031	3264076	83.58%	4.654%
3	6.291	6.250	6.419	BB	317029	3421485	87.61%	4.879%
4	6.749	6.715	6.815	BB	343516	3367816	86.24%	4.802%
5	7.391	7.354	7.532	BB	285991	3270999	83.76%	4.664%
6	8.584	8.550	8.654	BB	327412	3346876	85.70%	4.772%
7	10.198	10.162	10.285	BB	312915	3489418	89.35%	4.976%
8	11.646	11.609	11.710	BB	321486	3577102	91.60%	5.101%
9	11.969	11.932	12.040	BB	357896	3905292	100.00%	5.569%
10	12.960	12.922	13.019	BB	300796	3465438	88.74%	4.941%
11	13.408	13.347	13.485	BB	248724	2981578	76.35%	4.252%
12	13.574	13.537	13.634	BB	295557	3410956	87.34%	4.864%
13	14.162	14.130	14.224	VB	277330	3418151	87.53%	4.874%
14	15.269	15.200	15.334	BB	283505	3466228	88.76%	4.943%
15	16.293	16.229	16.352	BB	269718	3372741	86.36%	4.809%
16	17.246	17.200	17.299	BBA	248685	3251973	83.27%	4.637%
17	18.135	18.069	18.194	BB	247345	3231427	82.74%	4.608%
18	18.970	18.920	19.029	BB	225215	3075127	78.74%	4.385%
19	19.755	19.720	19.799	BBA	191477	2754614	70.54%	3.928%
20	20.497	20.450	20.549	BBA	169669	2416134	61.87%	3.445%
21	21.251	21.210	21.342	BB	128582	2258588	57.83%	3.221%
22	22.195	22.115	22.307	BB	87656	2178036	55.77%	3.106%
Sum of corrected areas:						70129339		

Aliphatic EPH 103025.M Sat Nov 01 00:28:07 2025



QC SAMPLE DATA

Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	
Project:	Maclearie Park	Date Received:	
Client Sample ID:	PB170341BL	SDG No.:	Q3495
Lab Sample ID:	PB170341BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	10/31/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC070105.D	10/31/25 16:00	PB170341
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	4.00	mg/kg	FC070105.D	10/31/25 16:00	PB170341
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg			
Total EPH	Total EPH	2.09	U		2.09	6.00	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	PB170341BL		SDG No.:	Q3495
Lab Sample ID:	PB170341BL		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	100
Sample Wt/Vol:	30.01 g	Final Vol:	2000 uL	Test:
Prep Method :		Prep Date	10/31/25	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	4.00	mg/kg	10/31/25	PB170341
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	10/31/25	PB170341
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	47.4			40 - 140	95%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	46.0			40 - 140	92%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170341BL	Acq On:	31 Oct 2025 16:00
Client Sample ID:	PB170341BL	Operator:	YP/AJ
Data file:	FC070105.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.281	6.574	0	0	300	ug/ml
Aliphatic C12-C16	6.575	9.976	0	0	200	ug/ml
Aliphatic C16-C21	9.977	13.346	0	0	300	ug/ml
Aliphatic C21-C28	13.347	17.012	0	0	400	ug/ml
Aliphatic C28-C40	17.013	21.974	0	0	600	ug/ml
Aliphatic EPH	3.281	21.974	0	0		ug/ml
ortho-Terphenyl (SURR)	11.646	11.646	8075554	45.99		ug/ml
1-chlorooctadecane (SURR)	13.080	13.080	6438971	47.44		ug/ml
Aliphatic C9-C28	3.281	17.012	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070105.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 16:00
 Operator : YP/AJ
 Sample : PB170341BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB170341BL

Integration File: autoint1.e
 Quant Time: Nov 01 04:08:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.646	8075554	45.987 ug/ml
Spiked Amount 50.000		Recovery =	91.97%
12) S 1-chlorooctadecane (S...	13.080	6438971	47.435 ug/ml
Spiked Amount 50.000		Recovery =	94.87%

Target Compounds

(f)=RT Delta > 1/2 Window

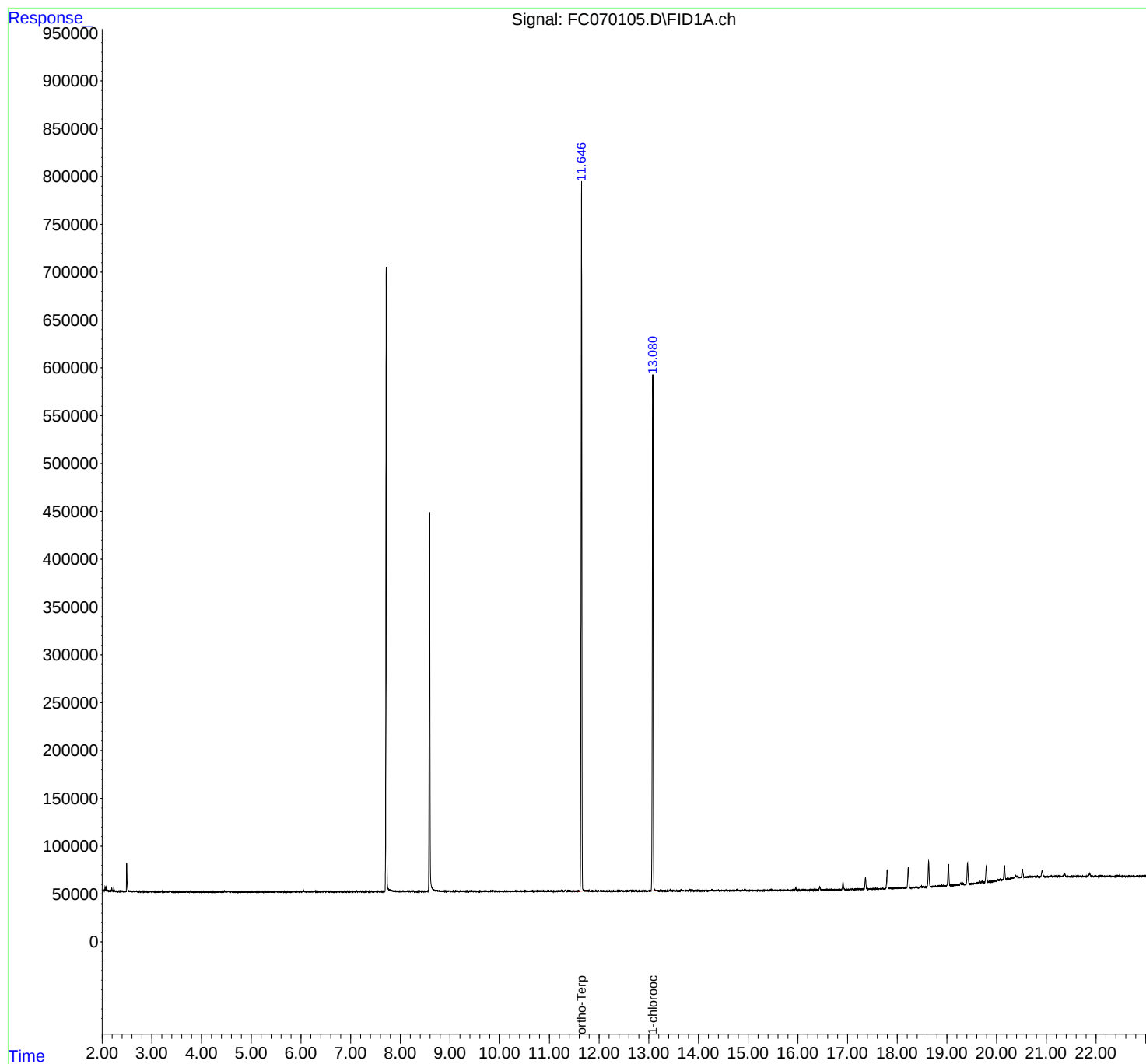
(m)=manual int.

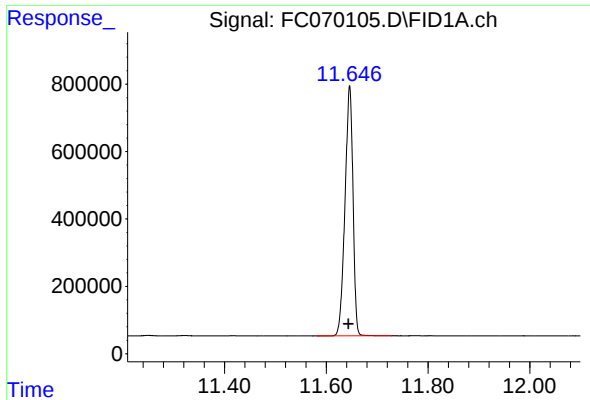
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070105.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 16:00
Operator : YP/AJ
Sample : PB170341BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170341BL

Integration File: autoint1.e
Quant Time: Nov 01 04:08:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

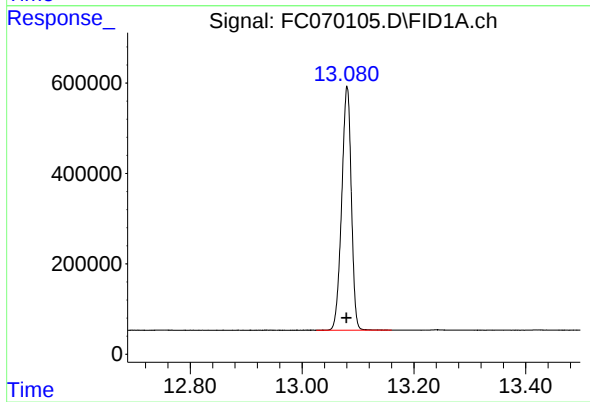




#9 ortho-Terphenyl (SURR)

R.T.: 11.646 min
Delta R.T.: 0.002 min
Response: 8075554
Conc: 45.99 ug/ml

Instrument :
FID_C
ClientSampleId :
PB170341BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.080 min
Delta R.T.: 0.001 min
Response: 6438971
Conc: 47.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070105.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 16:00
Sample : PB170341BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.646	11.580	11.729	BB	741535	8075554	100.00%	55.638%
2	13.080	13.025	13.160	BB	540002	6438971	79.73%	44.362%
Sum of corrected areas:						14514525		

Aliphatic EPH 100725.M Sat Nov 01 05:08:11 2025

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	PB170341BS		SDG No.:	Q3495
Lab Sample ID:	PB170341BS		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	100
Sample Wt/Vol:	30.02 g	Final Vol: 2000 uL	Test:	EPH_NF
Prep Method :		Prep Date : 10/31/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	33.0		1	1.18	2.00	mg/kg	FC070106.D	10/31/25 16:43	PB170341
Aliphatic C9-C28	Aliphatic C9-C28	79.8		1	0.91	3.99	mg/kg	FC070106.D	10/31/25 16:43	PB170341
Total AliphaticEPH	Total AliphaticEPH	113			2.09	5.99	mg/kg			
Total EPH	Total EPH	113			2.09	5.99	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	PB170341BS		SDG No.:	Q3495
Lab Sample ID:	PB170341BS		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	100
Sample Wt/Vol:	30.02 g	Final Vol:	2000 uL	Test:
Prep Method :		Prep Date	10/31/25	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	79.8	1		0.91	3.99	mg/kg	10/31/25	PB170341
Aliphatic C28-C40	Aliphatic C28-C40	33.0	1		1.18	2.00	mg/kg	10/31/25	PB170341
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	45.9			40 - 140	92%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	43.9			40 - 140	88%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170341BS	Acq On:	31 Oct 2025 16:43
Client Sample ID:	PB170341BS	Operator:	YP/AJ
Data file:	FC070106.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.281	6.574	31673836	218.764	300	ug/ml
Aliphatic C12-C16	6.575	9.976	45277989	276.452	200	ug/ml
Aliphatic C16-C21	9.977	13.346	51190700	316.098	300	ug/ml
Aliphatic C21-C28	13.347	17.012	56760830	385.755	400	ug/ml
Aliphatic C28-C40	17.013	21.974	53348744	495.807	600	ug/ml
Aliphatic EPH	3.281	21.974	238252099	1690		ug/ml
ortho-Terphenyl (SURR)	11.646	11.646	7704566	43.87		ug/ml
1-chlorooctadecane (SURR)	13.081	13.081	6227121	45.87		ug/ml
Aliphatic C9-C28	3.281	17.012	184903355	1200	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070106.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 16:43
 Operator : YP/AJ
 Sample : PB170341BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB170341BS

Integration File: autoint1.e
 Quant Time: Nov 03 00:17:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.646	7704566	43.875 ug/ml
Spiked Amount 50.000		Recovery =	87.75%
12) S 1-chlorooctadecane (S...	13.081	6227121	45.875 ug/ml
Spiked Amount 50.000		Recovery =	91.75%
Target Compounds			
1) T n-Nonane (C9)	3.391	5381016	39.187 ug/ml
2) T n-Decane (C10)	4.458	5938129	41.305 ug/ml
3) T A~Naphthalene (C11.7)	6.048	7217484	44.658 ug/ml
4) T n-Dodecane (C12)	6.476	6635626	43.292 ug/ml
5) T A~2-methylnaphthalene...	7.106	6949987	43.560 ug/ml
6) T n-Tetradecane (C14)	8.276	7218062	45.384 ug/ml
7) T n-Hexadecane (C16)	9.878	7661331	45.462 ug/ml
8) T n-Octadecane (C18)	11.324	7688306	45.191 ug/ml
10) T n-Eicosane (C20)	12.635	7720444	48.122 ug/ml
11) T n-Heneicosane (C21)	13.248	7364913	47.432 ug/ml
13) T n-Docosane (C22)	13.835	7184055	46.681 ug/ml
14) T n-Tetracosane (C24)	14.936	13123360	86.548 ug/ml
15) T n-Hexacosane (C26)	15.964	6472409	44.717 ug/ml
16) T n-Octacosane (C28)	16.914	6178813	44.676 ug/ml
17) T n-Tricontane (C30)	17.805	6288953	46.061 ug/ml
18) T n-Dotriacontane (C32)	18.637	6279211	48.701 ug/ml
19) T n-Tetratriacontane (C34)	19.422	6325877	55.442 ug/ml
20) T n-Hexatriacontane (C36)	20.162	5894045	60.945 ug/ml
21) T n-Octatriacontane (C38)	20.926	5848512	67.102 ug/ml
22) T n-Tetracontane (C40)	21.880	5685213	69.195 ug/ml

(f)=RT Delta > 1/2 Window

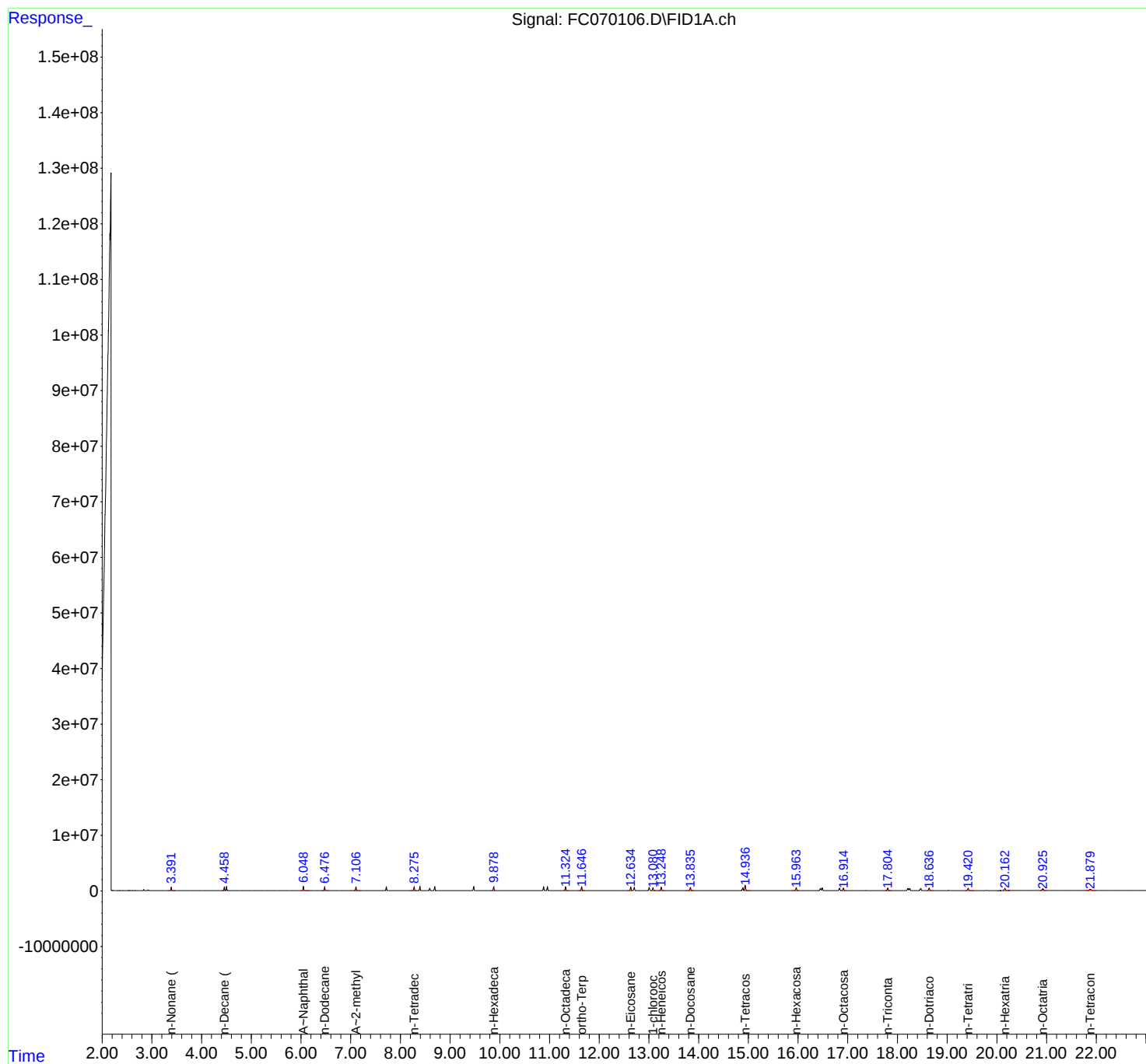
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070106.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 16:43
Operator : YP/AJ
Sample : PB170341BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170341BS

Integration File: autoint1.e
Quant Time: Nov 03 00:17:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070106.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 16:43
 Sample : PB170341BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.391	3.330	3.482	BB	641477	5381016	41.00%	2.134%
2	4.458	4.404	4.479	BV	680477	5938129	45.25%	2.355%
3	4.502	4.479	4.545	VV	742777	6501581	49.54%	2.578%
4	6.048	5.987	6.177	BB	769781	7217484	55.00%	2.862%
5	6.476	6.417	6.560	BB	693511	6635626	50.56%	2.631%
6	7.106	7.059	7.210	BB	694563	6949987	52.96%	2.756%
7	8.276	8.197	8.342	BB	692195	7218062	55.00%	2.862%
8	8.392	8.342	8.480	BB	765958	7719149	58.82%	3.061%
9	8.690	8.657	8.825	VB	750879	7865170	59.93%	3.119%
10	9.475	9.407	9.582	BB	760456	7864290	59.93%	3.118%
11	9.878	9.817	9.910	BV	710756	7661331	58.38%	3.038%
12	10.882	10.797	10.923	BV	679928	7399830	56.39%	2.934%
13	10.959	10.923	11.079	VB	658015	7325470	55.82%	2.905%
14	11.324	11.279	11.382	BB	681685	7688306	58.58%	3.049%
15	11.646	11.580	11.715	BB	696534	7704566	58.71%	3.055%
16	12.635	12.565	12.669	BV	658450	7720444	58.83%	3.061%
17	12.706	12.669	12.795	VB	610441	6886411	52.47%	2.731%
18	13.006	12.937	13.040	BV	565808	6805326	51.86%	2.699%
19	13.081	13.040	13.149	VB	524714	6227121	47.45%	2.469%
20	13.248	13.179	13.319	BB	630097	7364913	56.12%	2.920%
21	13.835	13.737	13.902	BB	575901	7184055	54.74%	2.849%
22	14.889	14.844	14.908	BV	466789	6164383	46.97%	2.444%
23	14.936	14.908	15.044	VB	975516	13123360	100.00%	5.204%
24	15.964	15.880	16.020	BB	508255	6472409	49.32%	2.567%
25	16.451	16.372	16.468	BV	413113	5993353	45.67%	2.377%
26	16.488	16.468	16.580	VB	482291	6000752	45.73%	2.380%
27	16.835	16.754	16.870	BBA	449692	5643705	43.01%	2.238%
28	16.914	16.870	16.980	BB	448883	6178813	47.08%	2.450%
29	17.805	17.742	17.879	BB	467717	6288953	47.92%	2.494%
30	18.213	18.129	18.228	BV	387316	6118106	46.62%	2.426%
31	18.248	18.228	18.395	VB	386522	5492194	41.85%	2.178%

					rteres				
32	18.470	18.399	18.590	BBA	379793	5416633	41.27%	2.148%	
33	18.637	18.590	18.722	BB	441859	6279211	47.85%	2.490%	
34	19.422	19.360	19.545	BV	418464	6325877	48.20%	2.508%	
35	20.162	20.120	20.265	BV	415114	5894045	44.91%	2.337%	
36	20.926	20.860	21.005	BB	332572	5848512	44.57%	2.319%	
37	21.880	21.784	21.992	BB	221577	5685213	43.32%	2.254%	
Sum of corrected areas:						252183783			

Aliphatic EPH 100725.M Mon Nov 03 00:49:39 2025

Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	
Project:	Maclearie Park	Date Received:	
Client Sample ID:	PB170341BSD	SDG No.:	Q3495
Lab Sample ID:	PB170341BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 g	Test:	EPH_NF
Prep Method :			

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
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TARGETS

Aliphatic C28-C40	Aliphatic C28-C40	30.3		1	1.18	2.00	mg/kg	FC070107.D	10/31/25 17:25	PB170341
Aliphatic C9-C28	Aliphatic C9-C28	73.8		1	0.91	3.99	mg/kg	FC070107.D	10/31/25 17:25	PB170341
Total AliphaticEPH	Total AliphaticEPH	104			2.09	5.99	mg/kg			
Total EPH	Total EPH	104			2.09	5.99	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	PB170341BSD		SDG No.:	Q3495
Lab Sample ID:	PB170341BSD		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	100
Sample Wt/Vol:	30.03 g	Final Vol:	2000 uL	Test:
Prep Method :		Prep Date	10/31/25	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	73.8	1		0.91	3.99	mg/kg	10/31/25	PB170341
Aliphatic C28-C40	Aliphatic C28-C40	30.3	1		1.18	2.00	mg/kg	10/31/25	PB170341
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	41.9			40 - 140	84%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	40.3			40 - 140	81%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170341BSD	Acq On:	31 Oct 2025 17:25
Client Sample ID:	PB170341BSD	Operator:	YP/AJ
Data file:	FC070107.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.281	6.574	29726153	205.312	300	ug/ml
Aliphatic C12-C16	6.575	9.976	41888819	255.759	200	ug/ml
Aliphatic C16-C21	9.977	13.346	47025928	290.381	300	ug/ml
Aliphatic C21-C28	13.347	17.012	52627833	357.666	400	ug/ml
Aliphatic C28-C40	17.013	21.974	48968565	455.099	600	ug/ml
Aliphatic EPH	3.281	21.974	220237298	1560		ug/ml
ortho-Terphenyl (SURR)	11.646	11.646	7070552	40.26		ug/ml
1-chlorooctadecane (SURR)	13.080	13.080	5689537	41.91		ug/ml
Aliphatic C9-C28	3.281	17.012	171268733	1110	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070107.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 17:25
 Operator : YP/AJ
 Sample : PB170341BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB170341BSD

Integration File: autoint1.e
 Quant Time: Nov 03 00:18:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.646	7070552	40.264 ug/ml
Spiked Amount 50.000		Recovery =	80.53%
12) S 1-chlorooctadecane (S...	13.080	5689537	41.914 ug/ml
Spiked Amount 50.000		Recovery =	83.83%
Target Compounds			
1) T n-Nonane (C9)	3.390	5099442	37.136 ug/ml
2) T n-Decane (C10)	4.457	5585680	38.854 ug/ml
3) T A~Naphthalene (C11.7)	6.048	6712923	41.536 ug/ml
4) T n-Dodecane (C12)	6.476	6213573	40.538 ug/ml
5) T A~2-methylnaphthalene...	7.106	6452482	40.442 ug/ml
6) T n-Tetradecane (C14)	8.275	6720016	42.253 ug/ml
7) T n-Hexadecane (C16)	9.878	7083182	42.031 ug/ml
8) T n-Octadecane (C18)	11.323	7077782	41.602 ug/ml
10) T n-Eicosane (C20)	12.635	7071406	44.077 ug/ml
11) T n-Heneicosane (C21)	13.247	6739763	43.406 ug/ml
13) T n-Docosane (C22)	13.835	6564912	42.658 ug/ml
14) T n-Tetracosane (C24)	14.936	12127177	79.978 ug/ml
15) T n-Hexacosane (C26)	15.964	5921795	40.913 ug/ml
16) T n-Octacosane (C28)	16.914	5604683	40.525 ug/ml
17) T n-Tricontane (C30)	17.804	5621726	41.175 ug/ml
18) T n-Dotriacontane (C32)	18.636	5544402	43.002 ug/ml
19) T n-Tetratriacontane (C34)	19.421	5645707	49.481 ug/ml
20) T n-Hexatriacontane (C36)	20.162	5337990	55.195 ug/ml
21) T n-Octatriacontane (C38)	20.923	5388522	61.824 ug/ml
22) T n-Tetracontane (C40)	21.878	5270160	64.143 ug/ml

(f)=RT Delta > 1/2 Window

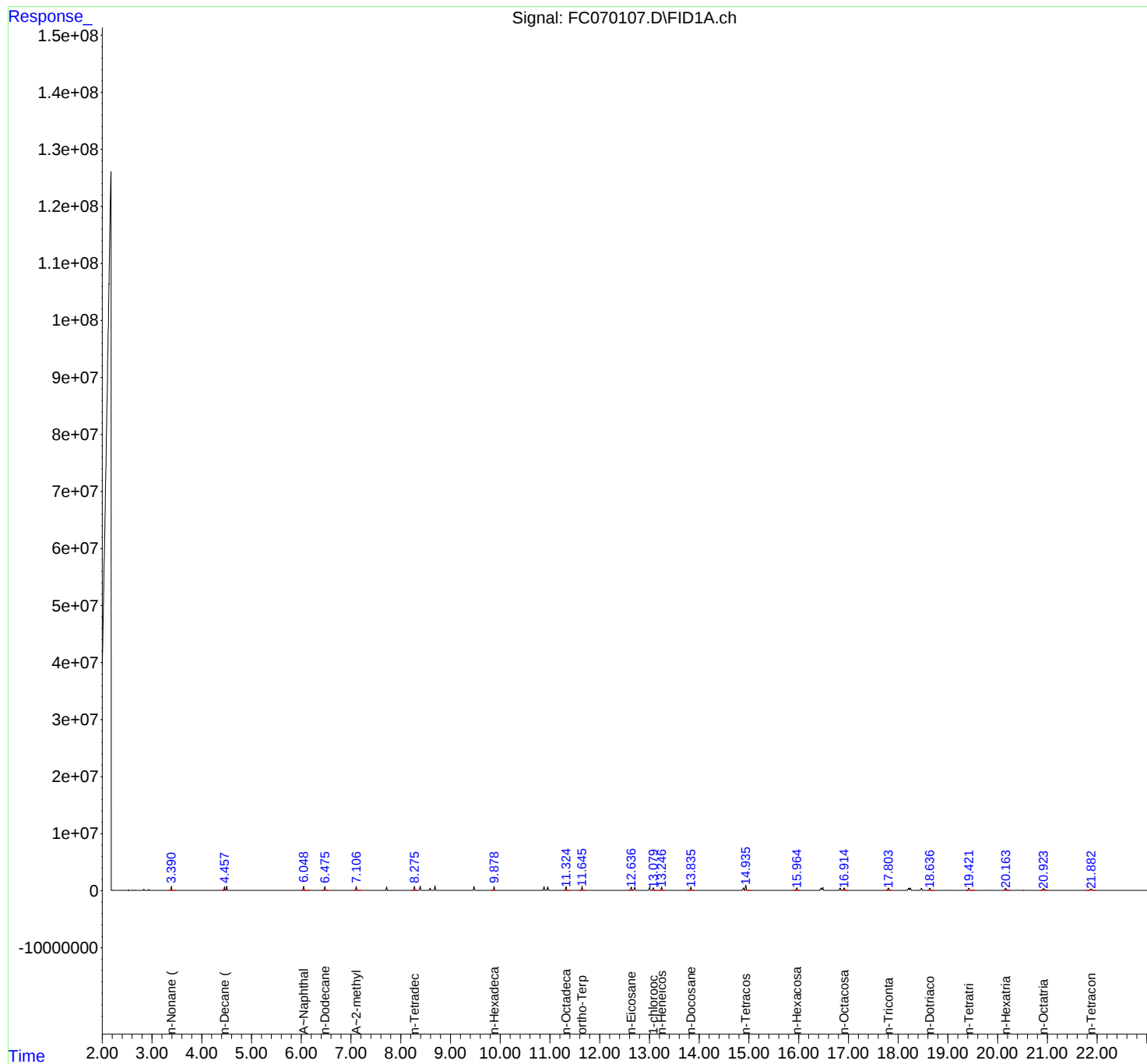
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070107.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 17:25
Operator : YP/AJ
Sample : PB170341BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170341BSD

Integration File: autoint1.e
Quant Time: Nov 03 00:18:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070107.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 17:25
 Sample : PB170341BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.390	3.330	3.485	BB	612311	5099442	42.05%	2.189%
2	4.457	4.395	4.479	BV	631376	5585680	46.06%	2.397%
3	4.501	4.479	4.547	VV	683361	6114535	50.42%	2.624%
4	6.048	5.987	6.165	BB	704517	6712923	55.35%	2.881%
5	6.476	6.409	6.554	BB	645440	6213573	51.24%	2.667%
6	7.106	7.059	7.210	BB	654597	6452482	53.21%	2.769%
7	8.275	8.209	8.342	BB	653530	6720016	55.41%	2.884%
8	8.392	8.342	8.474	BB	693498	7135286	58.84%	3.062%
9	8.689	8.655	8.789	VB	709987	7247135	59.76%	3.110%
10	9.474	9.415	9.585	BB	672774	7250718	59.79%	3.112%
11	9.878	9.814	9.910	BV	655837	7083182	58.41%	3.040%
12	10.881	10.804	10.922	BV	624069	6795676	56.04%	2.917%
13	10.957	10.922	11.067	VB	609702	6726551	55.47%	2.887%
14	11.323	11.279	11.390	BB	605572	7077782	58.36%	3.038%
15	11.646	11.584	11.719	BB	646250	7070552	58.30%	3.035%
16	12.635	12.570	12.669	BV	600550	7071406	58.31%	3.035%
17	12.705	12.669	12.792	VB	551866	6339498	52.28%	2.721%
18	13.005	12.937	13.039	BV	543051	6275252	51.75%	2.693%
19	13.080	13.039	13.147	VB	463073	5689537	46.92%	2.442%
20	13.247	13.174	13.312	BB	558765	6739763	55.58%	2.893%
21	13.835	13.747	13.899	BB	525873	6564912	54.13%	2.818%
22	14.889	14.837	14.908	BV	431100	5764145	47.53%	2.474%
23	14.936	14.908	15.039	VB	905998	12127177	100.00%	5.205%
24	15.964	15.885	16.020	BB	465125	5921795	48.83%	2.542%
25	16.451	16.374	16.467	BV	384964	5624263	46.38%	2.414%
26	16.486	16.467	16.584	VB	477346	5670775	46.76%	2.434%
27	16.835	16.752	16.869	BBA	402565	5350083	44.12%	2.296%
28	16.914	16.870	16.985	BB	441467	5604683	46.22%	2.405%
29	17.804	17.740	17.879	BB	398455	5621726	46.36%	2.413%
30	18.212	18.132	18.227	BV	379447	5700818	47.01%	2.447%
31	18.246	18.227	18.395	VB	385214	5309569	43.78%	2.279%

					rteres			
32	18.469	18.399	18.585	BB	351763	5149671	42.46%	2.210%
33	18.636	18.590	18.725	BB	385833	5544402	45.72%	2.380%
34	19.421	19.357	19.547	BB	393743	5645707	46.55%	2.423%
35	20.162	20.120	20.259	BV	355510	5337990	44.02%	2.291%
36	20.923	20.860	21.004	BB	282291	5388522	44.43%	2.313%
37	21.878	21.774	21.980	BB	200448	5270160	43.46%	2.262%
					Sum of corrected areas:	232997386		

Aliphatic EPH 100725.M Mon Nov 03 00:52:57 2025

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	DRILL-CUTTINGSMS		SDG No.:	Q3495
Lab Sample ID:	Q3496-01MS		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	86.1
Sample Wt/Vol:	30.02 g	Final Vol: 2000 uL	Test:	EPH_NF
Prep Method :		Prep Date : 10/31/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	45.0		1	1.37	2.32	mg/kg	FC070110.D	10/31/25 19:32	PB170341
Aliphatic C9-C28	Aliphatic C9-C28	73.8		1	1.06	4.64	mg/kg	FC070110.D	10/31/25 19:32	PB170341
Total AliphaticEPH	Total AliphaticEPH	119			2.43	6.96	mg/kg			
Total EPH	Total EPH	119			2.43	6.96	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	DRILL-CUTTINGSMS		SDG No.:	Q3495
Lab Sample ID:	Q3496-01MS		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	86.1
Sample Wt/Vol:	30.02 g	Final Vol:	2000 uL	Test:
Prep Method :		Prep Date	10/31/25	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	73.8	1		1.06	4.64	mg/kg	10/31/25	PB170341
Aliphatic C28-C40	Aliphatic C28-C40	45.0	1		1.37	2.32	mg/kg	10/31/25	PB170341
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	33.9			40 - 140	68%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	30.7			40 - 140	61%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3496-01MS	Acq On:	31 Oct 2025 19:32
Client Sample ID:	DRILL-CUTTINGSMS	Operator:	YP/AJ
Data file:	FC070110.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.281	6.574	22705990	156.825	300	ug/ml
Aliphatic C12-C16	6.575	9.976	36349413	221.937	200	ug/ml
Aliphatic C16-C21	9.977	13.346	41298706	255.016	300	ug/ml
Aliphatic C21-C28	13.347	17.012	47217075	320.894	400	ug/ml
Aliphatic C28-C40	17.013	21.974	62564795	581.458	600	ug/ml
Aliphatic EPH	3.281	21.974	210135979	1540		ug/ml
ortho-Terphenyl (SURR)	11.644	11.644	5385613	30.67		ug/ml
1-chlorooctadecane (SURR)	13.079	13.079	4606096	33.93		ug/ml
Aliphatic C9-C28	3.281	17.012	147571184	954.672	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070110.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 19:32
 Operator : YP/AJ
 Sample : Q3496-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 DRILL-CUTTINGSMS

Integration File: autoint1.e
 Quant Time: Nov 03 00:19:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.644	5385613	30.669 ug/ml
Spiked Amount 50.000		Recovery =	61.34%
12) S 1-chlorooctadecane (S...	13.079	4606096	33.933 ug/ml
Spiked Amount 50.000		Recovery =	67.87%
Target Compounds			
1) T n-Nonane (C9)	3.380	3275715	23.855 ug/ml
2) T n-Decane (C10)	4.452	3982739	27.704 ug/ml
3) T A~Naphthalene (C11.7)	6.045	5384272	33.315 ug/ml
4) T n-Dodecane (C12)	6.474	4878749	31.830 ug/ml
5) T A~2-methylnaphthalene...	7.104	5254487	32.933 ug/ml
6) T n-Tetradecane (C14)	8.274	5416659	34.058 ug/ml
7) T n-Hexadecane (C16)	9.876	5666162	33.623 ug/ml
8) T n-Octadecane (C18)	11.321	5709798	33.561 ug/ml
10) T n-Eicosane (C20)	12.633	5649053	35.211 ug/ml
11) T n-Heneicosane (C21)	13.246	5513673	35.509 ug/ml
13) T n-Docosane (C22)	13.834	5406473	35.131 ug/ml
14) T n-Tetracosane (C24)	14.934	10431962	68.799 ug/ml
15) T n-Hexacosane (C26)	15.962	4939412	34.126 ug/ml
16) T n-Octacosane (C28)	16.911	4635941	33.520 ug/ml
17) T n-Tricontane (C30)	17.801	4446446	32.567 ug/ml
18) T n-Dotriacontane (C32)	18.634	4250299	32.965 ug/ml
19) T n-Tetratriacontane (C34)	19.418	4208837	36.887 ug/ml
20) T n-Hexatriacontane (C36)	20.160	3872351	40.040 ug/ml
21) T n-Octatriacontane (C38)	20.920	3823468	43.868 ug/ml
22) T n-Tetracontane (C40)	21.872	3730688	45.406 ug/ml

(f)=RT Delta > 1/2 Window

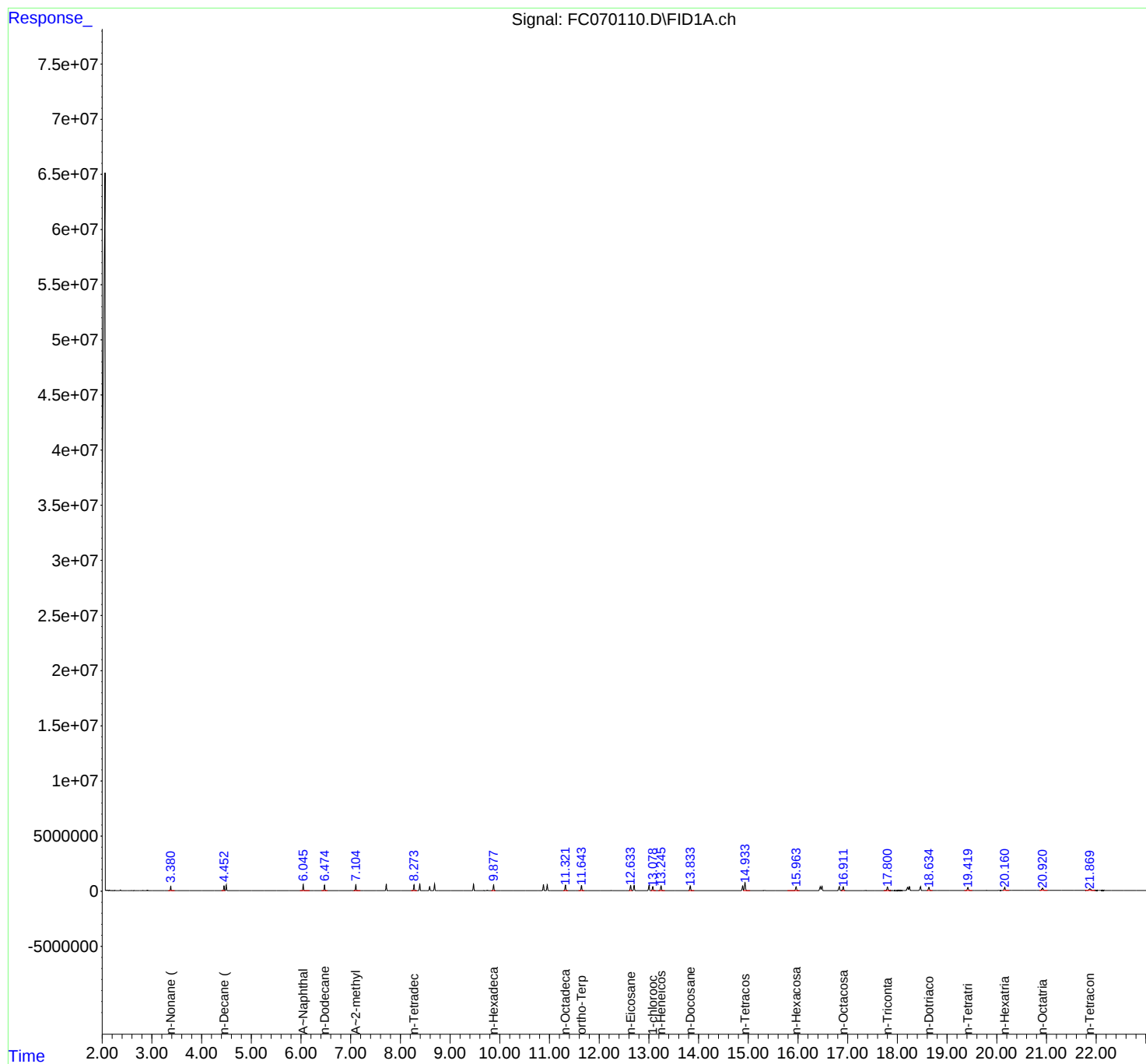
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070110.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 19:32
Operator : YP/AJ
Sample : Q3496-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
DRILL-CUTTINGSMS

Integration File: autoint1.e
Quant Time: Nov 03 00:19:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070110.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 19:32
 Sample : Q3496-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.268	3.205	3.350	BV	668	12204	0.12%	0.005%
2	3.380	3.350	3.476	PV	396134	3292782	31.32%	1.482%
3	3.486	3.476	3.495	VV	303	3121	0.03%	0.001%
4	3.504	3.495	3.548	VV	387	7531	0.07%	0.003%
5	3.559	3.548	3.569	VV	203	1912	0.02%	0.001%
6	3.581	3.569	3.613	VV	231	2836	0.03%	0.001%
7	3.657	3.613	3.671	PV	266	5686	0.05%	0.003%
8	3.694	3.671	3.722	VV	707	12267	0.12%	0.006%
9	3.739	3.722	3.755	VV	763	10342	0.10%	0.005%
10	3.770	3.755	3.839	VV	5990	57935	0.55%	0.026%
11	3.867	3.839	3.918	VV	3965	42020	0.40%	0.019%
12	3.925	3.918	3.937	VV	220	2043	0.02%	0.001%
13	3.960	3.937	4.015	VV	427	10500	0.10%	0.005%
14	4.052	4.015	4.066	VV	515	7960	0.08%	0.004%
15	4.078	4.066	4.105	VV	440	6059	0.06%	0.003%
16	4.147	4.105	4.165	VV	347	6467	0.06%	0.003%
17	4.191	4.165	4.203	VV	286	4741	0.05%	0.002%
18	4.219	4.203	4.247	VV	487	7874	0.07%	0.004%
19	4.261	4.247	4.281	VV	284	4114	0.04%	0.002%
20	4.289	4.281	4.306	VV	228	2422	0.02%	0.001%
21	4.313	4.306	4.341	PV	95	1438	0.01%	0.001%
22	4.367	4.341	4.398	VV	181	4386	0.04%	0.002%
23	4.408	4.398	4.420	VV	161	1362	0.01%	0.001%
24	4.452	4.420	4.474	VV	446092	3987185	37.92%	1.794%
25	4.496	4.474	4.541	VV	511563	4524660	43.03%	2.036%
26	4.557	4.541	4.582	VV	4983	57578	0.55%	0.026%
27	4.604	4.582	4.642	VV	7812	83690	0.80%	0.038%
28	4.653	4.642	4.687	VV	453	9508	0.09%	0.004%
29	4.706	4.687	4.721	VV	382	5775	0.05%	0.003%
30	4.734	4.721	4.765	VV	331	5523	0.05%	0.002%
31	4.770	4.765	4.790	VV	219	2409	0.02%	0.001%

					rteres			
32	4.797	4.790	4.845	VV	184	4287	0.04%	0.002%
33	4.858	4.845	4.892	VV	147	3194	0.03%	0.001%
34	4.945	4.892	4.957	VV	173	3909	0.04%	0.002%
35	4.974	4.957	4.985	VV	125	1348	0.01%	0.001%
36	5.041	4.985	5.075	VV	188	4769	0.05%	0.002%
37	5.106	5.075	5.160	VV	199	5265	0.05%	0.002%
38	5.175	5.160	5.247	VV	186	4421	0.04%	0.002%
39	5.312	5.247	5.332	VV	292	6026	0.06%	0.003%
40	5.345	5.332	5.352	VV	173	1615	0.02%	0.001%
41	5.361	5.352	5.399	VV	195	3029	0.03%	0.001%
42	5.412	5.399	5.425	PV	76	918	0.01%	0.000%
43	5.489	5.425	5.509	VV	2177	22829	0.22%	0.010%
44	5.551	5.509	5.578	VV	561	15879	0.15%	0.007%
45	5.599	5.578	5.651	VV	462	10780	0.10%	0.005%
46	5.684	5.651	5.705	VV	192	3988	0.04%	0.002%
47	5.741	5.705	5.771	VV	1083	16362	0.16%	0.007%
48	5.788	5.771	5.810	VV	323	5356	0.05%	0.002%
49	5.835	5.810	5.922	VV	323	8663	0.08%	0.004%
50	6.045	5.922	6.171	PV	564034	5426664	51.61%	2.442%
51	6.189	6.171	6.263	VV	926	28133	0.27%	0.013%
52	6.278	6.263	6.300	VV	374	6561	0.06%	0.003%
53	6.319	6.300	6.331	VV	468	6461	0.06%	0.003%
54	6.365	6.331	6.391	VV	514	13182	0.13%	0.006%
55	6.399	6.391	6.419	VV	257	3872	0.04%	0.002%
56	6.427	6.419	6.441	VV	259	2372	0.02%	0.001%
57	6.474	6.441	6.535	VV	506263	4900880	46.61%	2.205%
58	6.549	6.535	6.605	VV	1020	23101	0.22%	0.010%
59	6.622	6.605	6.665	VV	516	11588	0.11%	0.005%
60	6.676	6.665	6.705	VV	209	4293	0.04%	0.002%
61	6.724	6.705	6.741	VV	195	3837	0.04%	0.002%
62	6.751	6.741	6.788	VV	205	4505	0.04%	0.002%
63	6.795	6.788	6.825	VV	212	2913	0.03%	0.001%
64	6.897	6.825	6.916	VV	299	7364	0.07%	0.003%
65	6.958	6.916	6.986	VV	3801	53184	0.51%	0.024%
66	7.009	6.986	7.059	VV	13842	150174	1.43%	0.068%
67	7.104	7.059	7.198	VV	544271	5280558	50.22%	2.376%
68	7.219	7.198	7.273	VV	3820	72813	0.69%	0.033%
69	7.295	7.273	7.355	VV	2784	60575	0.58%	0.027%
70	7.370	7.355	7.383	VV	1348	14932	0.14%	0.007%
71	7.398	7.383	7.428	VV	1731	21676	0.21%	0.010%
72	7.461	7.428	7.478	VV	622	11825	0.11%	0.005%
73	7.492	7.478	7.517	VV	484	6713	0.06%	0.003%
74	7.541	7.517	7.560	VV	453	7904	0.08%	0.004%
75	7.576	7.560	7.600	VV	924	11755	0.11%	0.005%
76	7.618	7.600	7.647	VV	329	5952	0.06%	0.003%
77	7.663	7.647	7.672	VV	226	1863	0.02%	0.001%
78	7.809	7.801	7.862	VV	978	26838	0.26%	0.012%
79	7.876	7.862	7.944	VV	868	18542	0.18%	0.008%

80	7.964	7.944	7.998	VV	524	7688	0.07%	0.003%
81	8.021	7.998	8.071	VV	537	8509	0.08%	0.004%
82	8.085	8.071	8.140	VV	149	3988	0.04%	0.002%
83	8.172	8.140	8.217	VV	272	8617	0.08%	0.004%
84	8.274	8.217	8.351	VV	533533	5434278	51.68%	2.445%
85	8.390	8.351	8.485	VV	616631	6155575	58.54%	2.770%
86	8.502	8.485	8.548	VV	1125	20385	0.19%	0.009%
87	8.688	8.653	8.791	VV	608497	6201432	58.98%	2.791%
88	8.804	8.791	8.854	VV	841	20610	0.20%	0.009%
89	8.887	8.854	8.898	VV	384	8388	0.08%	0.004%
90	8.911	8.898	8.928	VV	315	4998	0.05%	0.002%
91	8.964	8.928	9.063	VV	835	28536	0.27%	0.013%
92	9.094	9.063	9.119	VV	1444	19328	0.18%	0.009%
93	9.154	9.119	9.180	VV	313	8062	0.08%	0.004%
94	9.197	9.180	9.236	VV	173	3045	0.03%	0.001%
95	9.248	9.236	9.265	VV	100	1374	0.01%	0.001%
96	9.277	9.265	9.301	VV	115	1281	0.01%	0.001%
97	9.327	9.301	9.374	PV	263	5404	0.05%	0.002%
98	9.392	9.374	9.412	VV	169	2582	0.02%	0.001%
99	9.473	9.412	9.618	VV	582727	6308361	60.00%	2.839%
100	9.625	9.618	9.638	VV	516	4946	0.05%	0.002%
101	9.685	9.638	9.725	VV	8317	119193	1.13%	0.054%
102	9.748	9.725	9.841	VV	38383	485004	4.61%	0.218%
103	9.876	9.841	9.957	VV	534572	5708025	54.29%	2.569%
104	9.981	9.957	10.071	VV	1740	29732	0.28%	0.013%
105	10.099	10.071	10.135	VV	1294	15878	0.15%	0.007%
106	10.159	10.135	10.186	VV	410	7879	0.07%	0.004%
107	10.220	10.186	10.248	VV	7416	88946	0.85%	0.040%
108	10.261	10.248	10.301	VV	940	14494	0.14%	0.007%
109	10.318	10.301	10.338	VV	316	5453	0.05%	0.002%
110	10.351	10.338	10.380	VV	272	3879	0.04%	0.002%
111	10.428	10.380	10.471	VV	309	9508	0.09%	0.004%
112	10.542	10.471	10.557	PV	344	8565	0.08%	0.004%
113	10.573	10.557	10.582	VV	293	3181	0.03%	0.001%
114	10.615	10.582	10.653	VV	829	15765	0.15%	0.007%
115	10.682	10.653	10.706	VV	4672	58822	0.56%	0.026%
116	10.718	10.706	10.752	VV	1120	16876	0.16%	0.008%
117	10.764	10.752	10.801	VV	284	5831	0.06%	0.003%
118	10.813	10.801	10.817	VV	207	1484	0.01%	0.001%
119	10.879	10.817	10.920	VV	542406	6006172	57.12%	2.703%
120	10.956	10.920	11.019	VV	530692	5984224	56.91%	2.693%
121	11.031	11.019	11.097	VV	2033	55211	0.53%	0.025%
122	11.121	11.097	11.154	VV	3387	48005	0.46%	0.022%
123	11.178	11.154	11.226	VV	2522	51349	0.49%	0.023%
124	11.248	11.226	11.281	VV	927	19536	0.19%	0.009%
125	11.321	11.281	11.371	VV	506668	5728575	54.48%	2.578%
126	11.398	11.371	11.458	VV	1263	29800	0.28%	0.013%

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127	11.484	11.458	11.547	VV	1648	28907	0.27%	0.013%
128	11.561	11.547	11.571	VV	133	1350	0.01%	0.001%
129	11.587	11.571	11.601	VV	145	2042	0.02%	0.001%
130	11.644	11.601	11.701	VV	483559	5402701	51.38%	2.431%
131	11.740	11.701	11.754	VV	743	16612	0.16%	0.007%
132	11.781	11.754	11.791	VV	876	16015	0.15%	0.007%
133	11.801	11.791	11.820	VV	888	12331	0.12%	0.006%
134	11.833	11.820	11.901	VV	537	13540	0.13%	0.006%
135	11.922	11.901	11.933	VV	216	2543	0.02%	0.001%
136	11.984	11.933	12.030	VV	803	21354	0.20%	0.010%
137	12.048	12.030	12.068	VV	415	6592	0.06%	0.003%
138	12.084	12.068	12.116	VV	545	8120	0.08%	0.004%
139	12.124	12.116	12.171	VV	108	2360	0.02%	0.001%
140	12.202	12.171	12.220	PV	352	5536	0.05%	0.002%
141	12.239	12.220	12.303	VV	12791	169272	1.61%	0.076%
142	12.321	12.303	12.331	VV	1196	16634	0.16%	0.007%
143	12.349	12.331	12.408	VV	1556	45514	0.43%	0.020%
144	12.455	12.408	12.538	VV	1572	40156	0.38%	0.018%
145	12.569	12.538	12.594	VV	716	14914	0.14%	0.007%
146	12.633	12.594	12.666	VV	480628	5656662	53.80%	2.545%
147	12.703	12.666	12.816	VV	500774	5762307	54.80%	2.593%
148	12.844	12.816	12.859	VV	320	5890	0.06%	0.003%
149	12.885	12.859	12.944	VV	5937	68292	0.65%	0.031%
150	13.003	12.944	13.037	VV	492407	5625063	53.50%	2.531%
151	13.079	13.037	13.168	VV	378415	4627966	44.02%	2.083%
152	13.190	13.168	13.206	VV	476	8736	0.08%	0.004%
153	13.246	13.206	13.352	VV	446628	5538799	52.68%	2.492%
154	13.362	13.352	13.395	VV	156	1687	0.02%	0.001%
155	13.415	13.395	13.427	VV	217	2062	0.02%	0.001%
156	13.470	13.427	13.505	VV	470	10292	0.10%	0.005%
157	13.519	13.505	13.539	VV	188	2669	0.03%	0.001%
158	13.549	13.539	13.567	VV	135	1198	0.01%	0.001%
159	13.588	13.567	13.608	PV	426	5789	0.06%	0.003%
160	13.622	13.608	13.640	VV	459	5601	0.05%	0.003%
161	13.672	13.640	13.714	VV	1151	20986	0.20%	0.009%
162	13.748	13.714	13.757	VV	213	4309	0.04%	0.002%
163	13.781	13.757	13.798	VV	1101	14771	0.14%	0.007%
164	13.834	13.798	13.915	VV	444568	5417586	51.53%	2.438%
165	13.957	13.915	13.988	VV	2639	40473	0.38%	0.018%
166	14.012	13.988	14.038	VV	1083	15963	0.15%	0.007%
167	14.065	14.038	14.085	VV	461	11021	0.10%	0.005%
168	14.100	14.085	14.115	VV	253	3413	0.03%	0.002%
169	14.128	14.115	14.167	VV	297	5763	0.05%	0.003%
170	14.193	14.167	14.208	VV	344	6554	0.06%	0.003%
171	14.234	14.208	14.247	VV	965	15903	0.15%	0.007%
172	14.267	14.247	14.311	VV	1256	27254	0.26%	0.012%
173	14.349	14.311	14.365	VV	443	12170	0.12%	0.005%
174	14.394	14.365	14.431	VV	1686	33873	0.32%	0.015%

175	14.457	14.431	14.485	VV	1298	25307	0.24%	0.011%
176	14.496	14.485	14.573	VV	685	26175	0.25%	0.012%
177	14.622	14.573	14.632	VV	708	17984	0.17%	0.008%
178	14.637	14.632	14.655	VV	646	7023	0.07%	0.003%
179	14.683	14.655	14.704	VV	720	15457	0.15%	0.007%
180	14.714	14.704	14.729	VV	376	5157	0.05%	0.002%
181	14.773	14.729	14.814	VV	1194	36661	0.35%	0.016%
182	14.827	14.814	14.843	VV	622	9097	0.09%	0.004%
183	14.886	14.843	14.905	VV	419776	5183605	49.30%	2.333%
184	14.934	14.905	15.065	VV	731269	10514382	100.00%	4.731%
185	15.077	15.065	15.098	VV	883	16481	0.16%	0.007%
186	15.128	15.098	15.165	VV	1104	32948	0.31%	0.015%
187	15.184	15.165	15.221	VV	796	21826	0.21%	0.010%
188	15.238	15.221	15.255	VV	710	12413	0.12%	0.006%
189	15.264	15.255	15.278	VV	722	8304	0.08%	0.004%
190	15.318	15.278	15.428	VV	13634	354148	3.37%	0.159%
191	15.455	15.428	15.513	VV	3490	83237	0.79%	0.037%
192	15.532	15.513	15.579	VV	1684	34135	0.32%	0.015%
193	15.589	15.579	15.611	VV	576	8892	0.08%	0.004%
194	15.647	15.611	15.674	VV	913	22319	0.21%	0.010%
195	15.691	15.674	15.702	VV	541	7385	0.07%	0.003%
196	15.710	15.702	15.743	VV	428	9482	0.09%	0.004%
197	15.777	15.743	15.796	VV	608	14487	0.14%	0.007%
198	15.834	15.796	15.871	VV	750	24669	0.23%	0.011%
199	15.962	15.871	16.041	VV	358457	4962431	47.20%	2.233%
200	16.052	16.041	16.095	VV	322	5941	0.06%	0.003%
201	16.160	16.095	16.218	VV	1226	27293	0.26%	0.012%
202	16.269	16.218	16.310	PV	555	17817	0.17%	0.008%
203	16.344	16.310	16.381	VV	1321	32347	0.31%	0.015%
204	16.449	16.381	16.464	VV	338397	5059482	48.12%	2.277%
205	16.483	16.464	16.568	VV	424386	5109103	48.59%	2.299%
206	16.578	16.568	16.628	VV	1210	33793	0.32%	0.015%
207	16.639	16.628	16.671	VV	908	19369	0.18%	0.009%
208	16.697	16.671	16.734	VV	2566	50730	0.48%	0.023%
209	16.746	16.734	16.773	VV	763	16103	0.15%	0.007%
210	16.831	16.773	16.872	VV	366119	4884196	46.45%	2.198%
211	16.911	16.872	16.945	VV	355878	4768377	45.35%	2.146%
212	16.957	16.945	17.017	VV	3855	79182	0.75%	0.036%
213	17.032	17.017	17.049	VV	843	14051	0.13%	0.006%
214	17.069	17.049	17.100	VV	791	22372	0.21%	0.010%
215	17.113	17.100	17.135	VV	781	14967	0.14%	0.007%
216	17.157	17.135	17.175	VV	984	19133	0.18%	0.009%
217	17.205	17.175	17.217	VV	841	18441	0.18%	0.008%
218	17.244	17.217	17.258	VV	997	21970	0.21%	0.010%
219	17.297	17.258	17.309	VV	1327	33779	0.32%	0.015%
220	17.358	17.309	17.389	VV	6018	121036	1.15%	0.054%
221	17.412	17.389	17.423	VV	1112	20969	0.20%	0.009%

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222	17.441	17.423	17.458	VV	1328	25217	0.24%	0.011%
223	17.477	17.458	17.517	VV	1457	43216	0.41%	0.019%
224	17.541	17.517	17.578	VV	1315	43405	0.41%	0.020%
225	17.589	17.578	17.605	VV	1273	19560	0.19%	0.009%
226	17.689	17.605	17.718	VV	2295	107797	1.03%	0.049%
227	17.801	17.718	17.869	VV	331569	4605181	43.80%	2.072%
228	17.890	17.869	17.916	VV	3120	69610	0.66%	0.031%
229	17.952	17.916	17.971	VV	2494	72367	0.69%	0.033%
230	17.988	17.971	18.016	VV	2423	61864	0.59%	0.028%
231	18.035	18.016	18.048	VV	2463	45534	0.43%	0.020%
232	18.073	18.048	18.084	VV	2430	49296	0.47%	0.022%
233	18.207	18.084	18.223	VV	308709	5007389	47.62%	2.253%
234	18.243	18.223	18.414	VV	351058	5071247	48.23%	2.282%
235	18.465	18.414	18.574	VV	345768	5163958	49.11%	2.324%
236	18.634	18.574	18.704	VV	302022	4627498	44.01%	2.082%
237	18.732	18.704	18.765	VV	5869	190748	1.81%	0.086%
238	18.789	18.765	18.818	VV	5438	165237	1.57%	0.074%
239	18.896	18.818	18.921	VV	5468	321831	3.06%	0.145%
240	18.948	18.921	18.966	VV	5617	148915	1.42%	0.067%
241	19.027	18.966	19.090	VV	11720	590169	5.61%	0.266%
242	19.143	19.090	19.165	VV	6602	290735	2.77%	0.131%
243	19.230	19.165	19.255	VV	7514	364428	3.47%	0.164%
244	19.275	19.255	19.292	VV	7087	154165	1.47%	0.069%
245	19.327	19.292	19.343	VV	7332	213737	2.03%	0.096%
246	19.418	19.343	19.515	VV	289641	5005646	47.61%	2.252%
247	19.530	19.515	19.561	VV	9232	244191	2.32%	0.110%
248	19.599	19.561	19.621	VV	9034	313115	2.98%	0.141%
249	19.646	19.621	19.654	VV	9215	180455	1.72%	0.081%
250	19.704	19.654	19.746	VV	9854	527143	5.01%	0.237%
251	19.790	19.746	19.817	VV	13938	490753	4.67%	0.221%
252	19.850	19.817	19.871	VV	11242	354888	3.38%	0.160%
253	19.899	19.871	19.910	VV	11100	253298	2.41%	0.114%
254	20.009	19.910	20.017	VV	12451	742601	7.06%	0.334%
255	20.046	20.017	20.097	VV	12848	603260	5.74%	0.271%
256	20.160	20.097	20.218	VV	295417	4843184	46.06%	2.179%
257	20.229	20.218	20.266	VV	14173	401945	3.82%	0.181%
258	20.319	20.266	20.351	VV	17931	789150	7.51%	0.355%
259	20.386	20.351	20.491	VV	15241	1252949	11.92%	0.564%
260	20.519	20.491	20.571	VV	16004	702998	6.69%	0.316%
261	20.579	20.571	20.593	VV	14178	180177	1.71%	0.081%
262	20.644	20.593	20.664	VV	14751	618846	5.89%	0.278%
263	20.699	20.664	20.743	VV	14631	684617	6.51%	0.308%
264	20.755	20.743	20.814	VV	14308	586028	5.57%	0.264%
265	20.828	20.814	20.859	VV	13594	362772	3.45%	0.163%
266	20.920	20.859	20.982	VV	224419	4796035	45.61%	2.158%
267	20.990	20.982	21.096	VV	14227	920787	8.76%	0.414%
268	21.108	21.096	21.134	VV	12818	288702	2.75%	0.130%
269	21.149	21.134	21.158	VV	12613	176143	1.68%	0.079%

270	21.176	21.158	21.216	VV	rteres 12730	442919	4.21%	0.199%
271	21.243	21.216	21.250	VV	12659	252301	2.40%	0.114%
272	21.266	21.250	21.286	VV	12863	275152	2.62%	0.124%
273	21.298	21.286	21.327	VV	12642	308938	2.94%	0.139%
274	21.351	21.327	21.411	VV	13120	635239	6.04%	0.286%
275	21.437	21.411	21.455	VV	12125	314787	2.99%	0.142%
276	21.498	21.455	21.541	VV	12178	608633	5.79%	0.274%
277	21.570	21.541	21.589	VV	11995	344914	3.28%	0.155%
278	21.608	21.589	21.618	VV	11986	202068	1.92%	0.091%
279	21.629	21.618	21.639	VV	11901	150681	1.43%	0.068%
280	21.646	21.639	21.665	VV	11732	176657	1.68%	0.079%
281	21.670	21.665	21.731	VV	11526	450832	4.29%	0.203%
282	21.741	21.731	21.758	VV	11211	180649	1.72%	0.081%
283	21.765	21.758	21.795	VV	11172	242286	2.30%	0.109%
284	21.872	21.795	21.944	VV	159130	4686947	44.58%	2.109%
285	21.955	21.944	21.980	VV	10935	232287	2.21%	0.105%
286	22.004	21.980	22.023	VV	10773	273202	2.60%	0.123%
287	22.042	22.023	22.052	VV	10856	186534	1.77%	0.084%
288	22.084	22.052	22.195	VV	11350	900161	8.56%	0.405%
289	22.202	22.195	22.267	VV	9876	418644	3.98%	0.188%
290	22.288	22.267	22.311	VBA	9528	272201	2.59%	0.122%

Sum of corrected areas: 222229600

Aliphatic EPH 100725.M Mon Nov 03 01:08:58 2025

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	DRILL-CUTTINGSMSD		SDG No.:	Q3495
Lab Sample ID:	Q3496-01MSD		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	86.1
Sample Wt/Vol:	30.08 g	Final Vol: 2000 uL	Test:	EPH_NF
Prep Method :		Prep Date : 10/31/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	44.9		1	1.37	2.32	mg/kg	FC070111.D	10/31/25 20:14	PB170341
Aliphatic C9-C28	Aliphatic C9-C28	73.0		1	1.05	4.63	mg/kg	FC070111.D	10/31/25 20:14	PB170341
Total AliphaticEPH	Total AliphaticEPH	118			2.42	6.95	mg/kg			
Total EPH	Total EPH	118			2.42	6.95	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

Report of Analysis

Client:	Remington & Vernick Engineers		Date Collected:	
Project:	Maclearie Park		Date Received:	
Client Sample ID:	DRILL-CUTTINGSMSD		SDG No.:	Q3495
Lab Sample ID:	Q3496-01MSD		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	86.1
Sample Wt/Vol:	30.08 g	Final Vol:	2000 uL	Test:
Prep Method :		Prep Date	10/31/25	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	73.0	1		1.05	4.63	mg/kg	10/31/25	PB170341
Aliphatic C28-C40	Aliphatic C28-C40	44.9	1		1.37	2.32	mg/kg	10/31/25	PB170341
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	33.9			40 - 140	68%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	30.6			40 - 140	61%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3496-01MSD	Acq On:	31 Oct 2025 20:14
Client Sample ID:	DRILL-CUTTINGSMSD	Operator:	YP/AJ
Data file:	FC070111.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.281	6.574	22450930	155.064	300	ug/ml
Aliphatic C12-C16	6.575	9.976	36098613	220.406	200	ug/ml
Aliphatic C16-C21	9.977	13.346	40803750	251.96	300	ug/ml
Aliphatic C21-C28	13.347	17.012	46716646	317.493	400	ug/ml
Aliphatic C28-C40	17.013	21.974	62496105	580.82	600	ug/ml
Aliphatic EPH	3.281	21.974	208566044	1530		ug/ml
ortho-Terphenyl (SURR)	11.643	11.643	5363835	30.55		ug/ml
1-chlorooctadecane (SURR)	13.079	13.079	4598862	33.88		ug/ml
Aliphatic C9-C28	3.281	17.012	146069939	944.923	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070111.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 20:14
 Operator : YP/AJ
 Sample : Q3496-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 DRILL-CUTTINGSMSD

Integration File: autoint1.e
 Quant Time: Nov 03 00:19:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 07 09:35:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 ul
 Signal Phase : Rxi-1ms
 Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.643	5363835	30.545 ug/ml
Spiked Amount 50.000		Recovery =	61.09%
12) S 1-chlorooctadecane (S...	13.079	4598862	33.879 ug/ml
Spiked Amount 50.000		Recovery =	67.76%
Target Compounds			
1) T n-Nonane (C9)	3.380	3222212	23.465 ug/ml
2) T n-Decane (C10)	4.452	3919183	27.262 ug/ml
3) T A~Naphthalene (C11.7)	6.046	5318929	32.911 ug/ml
4) T n-Dodecane (C12)	6.474	4815861	31.420 ug/ml
5) T A~2-methylnaphthalene...	7.104	5198090	32.580 ug/ml
6) T n-Tetradecane (C14)	8.274	5372915	33.783 ug/ml
7) T n-Hexadecane (C16)	9.876	5649480	33.524 ug/ml
8) T n-Octadecane (C18)	11.321	5675206	33.358 ug/ml
10) T n-Eicosane (C20)	12.633	5609089	34.962 ug/ml
11) T n-Heneicosane (C21)	13.245	5464658	35.194 ug/ml
13) T n-Docosane (C22)	13.832	5355600	34.800 ug/ml
14) T n-Tetracosane (C24)	14.933	10292803	67.881 ug/ml
15) T n-Hexacosane (C26)	15.961	4858237	33.565 ug/ml
16) T n-Octacosane (C28)	16.911	4569453	33.039 ug/ml
17) T n-Tricontane (C30)	17.802	4384632	32.114 ug/ml
18) T n-Dotriacontane (C32)	18.634	4186827	32.473 ug/ml
19) T n-Tetratriacontane (C34)	19.419	4129220	36.190 ug/ml
20) T n-Hexatriacontane (C36)	20.160	3810159	39.397 ug/ml
21) T n-Octatriacontane (C38)	20.921	3724649	42.734 ug/ml
22) T n-Tetracontane (C40)	21.874	3644584	44.358 ug/ml

(f)=RT Delta > 1/2 Window

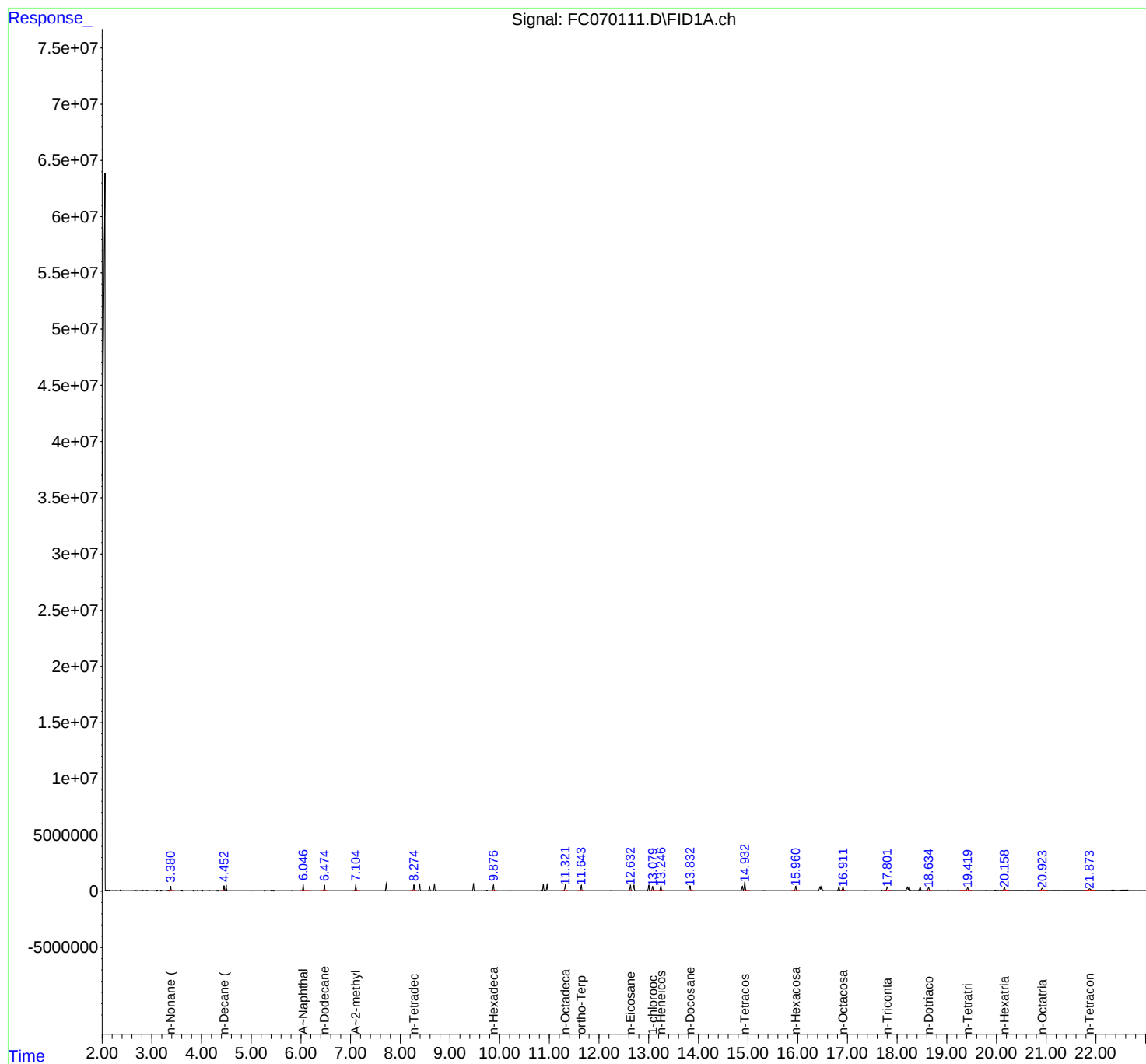
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
Data File : FC070111.D
Signal(s) : FID1A.ch
Acq On : 31 Oct 2025 20:14
Operator : YP/AJ
Sample : Q3496-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
DRILL-CUTTINGSMSD

Integration File: autoint1.e
Quant Time: Nov 03 00:19:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC103125AL\
 Data File : FC070111.D
 Signal(s) : FID1A.ch
 Acq On : 31 Oct 2025 20:14
 Sample : Q3496-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.268	3.204	3.314	BV	689	14963	0.14%	0.007%
2	3.320	3.314	3.351	VV	125	1104	0.01%	0.001%
3	3.380	3.351	3.472	PV	392844	3242877	31.26%	1.470%
4	3.482	3.472	3.494	VV	353	3753	0.04%	0.002%
5	3.505	3.494	3.545	VV	349	8742	0.08%	0.004%
6	3.562	3.545	3.571	VV	220	2986	0.03%	0.001%
7	3.581	3.571	3.598	VV	229	2646	0.03%	0.001%
8	3.652	3.598	3.670	PV	312	6809	0.07%	0.003%
9	3.694	3.670	3.724	VV	681	13495	0.13%	0.006%
10	3.739	3.724	3.754	VV	713	10313	0.10%	0.005%
11	3.769	3.754	3.837	VV	5787	57921	0.56%	0.026%
12	3.867	3.837	3.916	VV	3827	40986	0.40%	0.019%
13	3.927	3.916	4.016	VV	706	13311	0.13%	0.006%
14	4.052	4.016	4.064	PV	574	8734	0.08%	0.004%
15	4.077	4.064	4.101	VV	544	7464	0.07%	0.003%
16	4.111	4.101	4.124	VV	255	3063	0.03%	0.001%
17	4.147	4.124	4.163	VV	509	6902	0.07%	0.003%
18	4.195	4.163	4.205	VV	390	7146	0.07%	0.003%
19	4.219	4.205	4.243	VV	555	8198	0.08%	0.004%
20	4.261	4.243	4.281	VV	330	5144	0.05%	0.002%
21	4.291	4.281	4.330	VV	325	5521	0.05%	0.003%
22	4.364	4.330	4.421	VV	255	8933	0.09%	0.004%
23	4.452	4.421	4.474	VV	438298	3925549	37.84%	1.780%
24	4.496	4.474	4.541	VV	501464	4458322	42.97%	2.021%
25	4.557	4.541	4.582	VV	5038	57889	0.56%	0.026%
26	4.603	4.582	4.644	VV	7762	82572	0.80%	0.037%
27	4.655	4.644	4.691	VV	493	10649	0.10%	0.005%
28	4.705	4.691	4.720	VV	449	5766	0.06%	0.003%
29	4.736	4.720	4.771	VV	369	8197	0.08%	0.004%
30	4.790	4.771	4.812	VV	279	5346	0.05%	0.002%
31	4.834	4.812	4.854	VV	186	3797	0.04%	0.002%

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32	4.874	4.854	4.898	VV	211	4359	0.04%	0.002%
33	4.904	4.898	4.958	VV	186	5478	0.05%	0.002%
34	4.973	4.958	5.028	VV	193	4888	0.05%	0.002%
35	5.045	5.028	5.072	VV	240	4829	0.05%	0.002%
36	5.098	5.072	5.120	VV	241	4692	0.05%	0.002%
37	5.130	5.120	5.178	VV	170	4154	0.04%	0.002%
38	5.195	5.178	5.214	VV	235	2777	0.03%	0.001%
39	5.224	5.214	5.267	VV	130	2726	0.03%	0.001%
40	5.311	5.267	5.408	VV	290	10342	0.10%	0.005%
41	5.489	5.408	5.510	PV	2090	22855	0.22%	0.010%
42	5.545	5.510	5.577	VV	545	15598	0.15%	0.007%
43	5.596	5.577	5.707	VV	432	13322	0.13%	0.006%
44	5.741	5.707	5.781	VV	1082	16668	0.16%	0.008%
45	5.787	5.781	5.818	VV	346	3384	0.03%	0.002%
46	5.835	5.818	5.868	PV	315	4895	0.05%	0.002%
47	5.875	5.868	5.888	VV	195	1580	0.02%	0.001%
48	5.905	5.888	5.933	VV	153	2796	0.03%	0.001%
49	5.944	5.933	5.955	VV	142	1432	0.01%	0.001%
50	5.976	5.955	5.984	VV	160	1844	0.02%	0.001%
51	6.046	5.984	6.170	VV	559797	5365101	51.71%	2.432%
52	6.185	6.170	6.257	VV	848	27647	0.27%	0.013%
53	6.281	6.257	6.298	VV	361	7325	0.07%	0.003%
54	6.319	6.298	6.330	VV	413	6801	0.07%	0.003%
55	6.348	6.330	6.398	VV	558	16926	0.16%	0.008%
56	6.416	6.398	6.440	VV	304	6194	0.06%	0.003%
57	6.474	6.440	6.534	VV	495096	4843410	46.69%	2.196%
58	6.550	6.534	6.599	VV	1079	24772	0.24%	0.011%
59	6.626	6.599	6.668	VV	678	15601	0.15%	0.007%
60	6.679	6.668	6.707	VV	342	5628	0.05%	0.003%
61	6.721	6.707	6.768	VV	305	8826	0.09%	0.004%
62	6.786	6.768	6.811	VV	313	6016	0.06%	0.003%
63	6.820	6.811	6.844	VV	227	3283	0.03%	0.001%
64	6.854	6.844	6.867	VV	215	2214	0.02%	0.001%
65	6.894	6.867	6.911	VV	353	5708	0.06%	0.003%
66	6.923	6.911	6.933	VV	166	1829	0.02%	0.001%
67	6.958	6.933	6.987	PV	3939	52712	0.51%	0.024%
68	7.010	6.987	7.051	VV	14029	149506	1.44%	0.068%
69	7.104	7.051	7.196	VV	523968	5236343	50.47%	2.374%
70	7.220	7.196	7.274	VV	3728	76557	0.74%	0.035%
71	7.296	7.274	7.348	VV	2779	60606	0.58%	0.027%
72	7.370	7.348	7.384	VV	1295	17805	0.17%	0.008%
73	7.398	7.384	7.424	VV	1576	20762	0.20%	0.009%
74	7.462	7.424	7.478	VV	628	13592	0.13%	0.006%
75	7.490	7.478	7.513	VV	515	6825	0.07%	0.003%
76	7.541	7.513	7.561	VV	521	9111	0.09%	0.004%
77	7.576	7.561	7.604	VV	955	13017	0.13%	0.006%
78	7.616	7.604	7.657	VV	347	6954	0.07%	0.003%
79	7.813	7.798	7.844	VV	1054	23142	0.22%	0.010%

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80	7.854	7.844	7.863	VV	710	7716	0.07%	0.003%
81	7.876	7.863	7.951	VV	900	21450	0.21%	0.010%
82	7.966	7.951	7.991	VV	538	8044	0.08%	0.004%
83	8.022	7.991	8.073	VV	548	12778	0.12%	0.006%
84	8.092	8.073	8.118	VV	261	4347	0.04%	0.002%
85	8.174	8.118	8.217	VV	423	13172	0.13%	0.006%
86	8.274	8.217	8.351	VV	525995	5392605	51.98%	2.445%
87	8.390	8.351	8.484	VV	605369	6101199	58.81%	2.766%
88	8.503	8.484	8.554	VV	1062	23988	0.23%	0.011%
89	8.688	8.658	8.791	VV	584768	6143495	59.22%	2.785%
90	8.803	8.791	8.851	VV	849	20687	0.20%	0.009%
91	8.882	8.851	8.895	VV	389	9394	0.09%	0.004%
92	8.910	8.895	8.931	VV	363	6550	0.06%	0.003%
93	8.962	8.931	9.061	VV	753	29100	0.28%	0.013%
94	9.094	9.061	9.121	VV	1441	19341	0.19%	0.009%
95	9.148	9.121	9.181	VV	322	7249	0.07%	0.003%
96	9.191	9.181	9.228	VV	174	2146	0.02%	0.001%
97	9.239	9.228	9.248	VV	91	577	0.01%	0.000%
98	9.275	9.248	9.305	VV	134	2371	0.02%	0.001%
99	9.326	9.305	9.363	VV	196	4625	0.04%	0.002%
100	9.386	9.363	9.411	VV	148	2775	0.03%	0.001%
101	9.473	9.411	9.589	VV	598745	6237599	60.12%	2.828%
102	9.598	9.589	9.615	VV	587	7263	0.07%	0.003%
103	9.629	9.615	9.641	VV	440	6231	0.06%	0.003%
104	9.685	9.641	9.722	VV	8013	114190	1.10%	0.052%
105	9.747	9.722	9.837	VV	37925	485696	4.68%	0.220%
106	9.876	9.837	9.909	VV	517934	5659478	54.55%	2.566%
107	9.918	9.909	9.958	VV	880	18510	0.18%	0.008%
108	9.982	9.958	10.064	VV	1798	31892	0.31%	0.014%
109	10.067	10.064	10.075	VV	141	635	0.01%	0.000%
110	10.100	10.075	10.121	VV	1192	15098	0.15%	0.007%
111	10.159	10.121	10.190	VV	454	11430	0.11%	0.005%
112	10.220	10.190	10.244	VV	7462	88026	0.85%	0.040%
113	10.261	10.244	10.297	VV	1071	17678	0.17%	0.008%
114	10.317	10.297	10.378	VV	403	11878	0.11%	0.005%
115	10.422	10.378	10.469	PV	413	13984	0.13%	0.006%
116	10.487	10.469	10.511	VV	190	3651	0.04%	0.002%
117	10.540	10.511	10.556	VV	354	6746	0.07%	0.003%
118	10.614	10.556	10.653	VV	855	21372	0.21%	0.010%
119	10.682	10.653	10.706	VV	4506	59526	0.57%	0.027%
120	10.718	10.706	10.744	VV	1059	15607	0.15%	0.007%
121	10.758	10.744	10.805	VV	322	8239	0.08%	0.004%
122	10.879	10.805	10.921	VV	532198	5930385	57.16%	2.689%
123	10.956	10.921	11.055	VV	537025	5935657	57.21%	2.691%
124	11.066	11.055	11.096	VV	1158	20720	0.20%	0.009%
125	11.120	11.096	11.158	VV	3380	48495	0.47%	0.022%
126	11.178	11.158	11.228	VV	2796	49796	0.48%	0.023%

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127	11.248	11.228	11.278	VV	909	18413	0.18%	0.008%
128	11.321	11.278	11.374	VV	508558	5693027	54.88%	2.581%
129	11.399	11.374	11.457	VV	1156	26768	0.26%	0.012%
130	11.484	11.457	11.551	VV	1683	28270	0.27%	0.013%
131	11.578	11.551	11.595	VV	171	3121	0.03%	0.001%
132	11.643	11.595	11.701	VV	491951	5383385	51.89%	2.441%
133	11.710	11.701	11.721	VV	508	5634	0.05%	0.003%
134	11.740	11.721	11.758	VV	631	11877	0.11%	0.005%
135	11.776	11.758	11.788	VV	836	12952	0.12%	0.006%
136	11.804	11.788	11.822	VV	1125	16342	0.16%	0.007%
137	11.831	11.822	11.849	VV	522	6192	0.06%	0.003%
138	11.861	11.849	11.901	VV	365	5664	0.05%	0.003%
139	11.925	11.901	11.939	VV	177	2433	0.02%	0.001%
140	11.949	11.939	11.955	VV	214	1454	0.01%	0.001%
141	11.985	11.955	12.028	VV	741	14955	0.14%	0.007%
142	12.048	12.028	12.063	VV	307	4369	0.04%	0.002%
143	12.085	12.063	12.101	VV	523	6129	0.06%	0.003%
144	12.110	12.101	12.135	VV	115	1186	0.01%	0.001%
145	12.201	12.135	12.219	PV	309	3550	0.03%	0.002%
146	12.239	12.219	12.301	VV	12783	166269	1.60%	0.075%
147	12.320	12.301	12.330	VV	1250	15973	0.15%	0.007%
148	12.348	12.330	12.408	VV	1572	44659	0.43%	0.020%
149	12.419	12.408	12.429	VV	588	6233	0.06%	0.003%
150	12.455	12.429	12.508	VV	1549	29249	0.28%	0.013%
151	12.513	12.508	12.531	VV	173	1586	0.02%	0.001%
152	12.570	12.531	12.594	VV	684	12916	0.12%	0.006%
153	12.633	12.594	12.666	VV	485892	5614520	54.12%	2.546%
154	12.703	12.666	12.811	VV	491311	5657104	54.53%	2.565%
155	12.836	12.811	12.858	VV	351	7343	0.07%	0.003%
156	12.885	12.858	12.940	VV	5770	68602	0.66%	0.031%
157	13.003	12.940	13.037	PV	489104	5523092	53.24%	2.504%
158	13.079	13.037	13.164	VV	376004	4616102	44.50%	2.093%
159	13.189	13.164	13.205	VV	490	9452	0.09%	0.004%
160	13.245	13.205	13.354	VV	446177	5493601	52.95%	2.491%
161	13.371	13.354	13.387	PV	112	1478	0.01%	0.001%
162	13.412	13.387	13.429	VV	236	3520	0.03%	0.002%
163	13.445	13.429	13.458	PV	408	4693	0.05%	0.002%
164	13.471	13.458	13.503	VV	448	7317	0.07%	0.003%
165	13.518	13.503	13.570	VV	183	3774	0.04%	0.002%
166	13.589	13.570	13.605	VV	485	5173	0.05%	0.002%
167	13.621	13.605	13.638	VV	481	5804	0.06%	0.003%
168	13.671	13.638	13.711	VV	1116	20637	0.20%	0.009%
169	13.781	13.711	13.794	VV	1138	18868	0.18%	0.009%
170	13.832	13.794	13.877	VV	436610	5356163	51.63%	2.428%
171	13.887	13.877	13.908	VV	606	7468	0.07%	0.003%
172	13.956	13.908	13.994	VV	2679	39990	0.39%	0.018%
173	14.011	13.994	14.040	VV	1042	14772	0.14%	0.007%
174	14.057	14.040	14.088	VV	537	10137	0.10%	0.005%

175	14.103	14.088	14.147	VV	247	6883	0.07%	0.003%
176	14.230	14.147	14.250	VV	926	24509	0.24%	0.011%
177	14.265	14.250	14.318	VV	1141	25288	0.24%	0.011%
178	14.347	14.318	14.368	VV	407	9891	0.10%	0.004%
179	14.395	14.368	14.430	VV	1592	32067	0.31%	0.015%
180	14.459	14.430	14.481	VV	1264	23793	0.23%	0.011%
181	14.495	14.481	14.578	VV	741	29866	0.29%	0.014%
182	14.621	14.578	14.633	VV	730	18137	0.17%	0.008%
183	14.637	14.633	14.654	VV	674	7256	0.07%	0.003%
184	14.677	14.654	14.701	VV	727	15696	0.15%	0.007%
185	14.714	14.701	14.736	VV	546	9412	0.09%	0.004%
186	14.773	14.736	14.811	VV	1298	36677	0.35%	0.017%
187	14.828	14.811	14.842	VV	632	11124	0.11%	0.005%
188	14.885	14.842	14.905	VV	399747	5112735	49.28%	2.318%
189	14.933	14.905	15.059	VV	771082	10374428	100.00%	4.704%
190	15.074	15.059	15.097	VV	924	19651	0.19%	0.009%
191	15.125	15.097	15.163	VV	1074	34570	0.33%	0.016%
192	15.180	15.163	15.251	VV	871	36923	0.36%	0.017%
193	15.268	15.251	15.284	VV	721	12299	0.12%	0.006%
194	15.318	15.284	15.426	VV	13552	349039	3.36%	0.158%
195	15.454	15.426	15.497	VV	3674	76687	0.74%	0.035%
196	15.531	15.497	15.574	VV	1540	41866	0.40%	0.019%
197	15.586	15.574	15.601	VV	509	6809	0.07%	0.003%
198	15.645	15.601	15.663	VV	910	19750	0.19%	0.009%
199	15.676	15.663	15.689	VV	530	6665	0.06%	0.003%
200	15.707	15.689	15.731	VV	470	10133	0.10%	0.005%
201	15.780	15.731	15.803	VV	588	19434	0.19%	0.009%
202	15.847	15.803	15.872	VV	804	23784	0.23%	0.011%
203	15.882	15.872	15.890	VV	498	4866	0.05%	0.002%
204	15.961	15.890	16.038	VV	394680	4887556	47.11%	2.216%
205	16.051	16.038	16.066	VV	296	4239	0.04%	0.002%
206	16.078	16.066	16.087	VV	181	2069	0.02%	0.001%
207	16.099	16.087	16.114	VV	234	2229	0.02%	0.001%
208	16.160	16.114	16.218	PV	1273	26275	0.25%	0.012%
209	16.271	16.218	16.314	VV	622	21402	0.21%	0.010%
210	16.346	16.314	16.391	VV	1226	35967	0.35%	0.016%
211	16.449	16.391	16.464	VV	345135	5048494	48.66%	2.289%
212	16.483	16.464	16.560	VV	423405	5024869	48.44%	2.278%
213	16.578	16.560	16.623	VV	1325	38374	0.37%	0.017%
214	16.633	16.623	16.670	VV	827	20509	0.20%	0.009%
215	16.698	16.670	16.751	VV	2526	56428	0.54%	0.026%
216	16.831	16.751	16.874	VV	360183	4875279	46.99%	2.210%
217	16.911	16.874	16.946	VV	360298	4696446	45.27%	2.129%
218	16.958	16.946	17.018	VV	3671	76478	0.74%	0.035%
219	17.039	17.018	17.050	VV	769	14772	0.14%	0.007%
220	17.063	17.050	17.081	VV	811	13388	0.13%	0.006%
221	17.114	17.081	17.123	VV	755	16891	0.16%	0.008%

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222	17.169	17.123	17.191	VV	789	28210	0.27%	0.013%
223	17.198	17.191	17.215	VV	781	10169	0.10%	0.005%
224	17.247	17.215	17.263	VV	1045	25281	0.24%	0.011%
225	17.287	17.263	17.319	VV	1278	36945	0.36%	0.017%
226	17.359	17.319	17.404	VV	6350	125459	1.21%	0.057%
227	17.447	17.404	17.458	VV	1276	35707	0.34%	0.016%
228	17.479	17.458	17.538	VV	1279	54561	0.53%	0.025%
229	17.549	17.538	17.568	VV	1131	19198	0.19%	0.009%
230	17.585	17.568	17.604	VV	1266	25180	0.24%	0.011%
231	17.689	17.604	17.715	VV	2341	101205	0.98%	0.046%
232	17.802	17.715	17.871	VV	312343	4543009	43.79%	2.060%
233	17.887	17.871	17.921	VV	3101	72616	0.70%	0.033%
234	17.951	17.921	17.969	VV	2383	62343	0.60%	0.028%
235	17.997	17.969	18.014	VV	2353	59806	0.58%	0.027%
236	18.035	18.014	18.052	VV	2416	52014	0.50%	0.024%
237	18.096	18.052	18.104	VV	2421	71557	0.69%	0.032%
238	18.207	18.104	18.223	VV	328224	5040645	48.59%	2.285%
239	18.243	18.223	18.395	VV	343756	5098444	49.14%	2.312%
240	18.407	18.395	18.417	VV	4097	51753	0.50%	0.023%
241	18.466	18.417	18.552	VV	318919	5094358	49.10%	2.310%
242	18.561	18.552	18.574	VV	5005	62894	0.61%	0.029%
243	18.634	18.574	18.708	VV	304008	4571191	44.06%	2.072%
244	18.734	18.708	18.771	VV	5757	196156	1.89%	0.089%
245	18.792	18.771	18.812	VV	5599	129075	1.24%	0.059%
246	18.826	18.812	18.844	VV	5175	94358	0.91%	0.043%
247	18.851	18.844	18.861	VV	5038	50622	0.49%	0.023%
248	18.879	18.861	18.893	VV	5410	99370	0.96%	0.045%
249	18.908	18.893	18.936	VV	5408	137467	1.33%	0.062%
250	18.951	18.936	18.968	VV	5716	103579	1.00%	0.047%
251	19.028	18.968	19.088	VV	12759	583169	5.62%	0.264%
252	19.143	19.088	19.177	VV	6586	338885	3.27%	0.154%
253	19.230	19.177	19.254	VV	7425	317567	3.06%	0.144%
254	19.278	19.254	19.300	VV	7053	187422	1.81%	0.085%
255	19.322	19.300	19.344	VV	7244	182934	1.76%	0.083%
256	19.419	19.344	19.508	VV	278992	4896502	47.20%	2.220%
257	19.525	19.508	19.545	VV	9192	195339	1.88%	0.089%
258	19.553	19.545	19.568	VV	8612	118711	1.14%	0.054%
259	19.610	19.568	19.623	VV	9054	291954	2.81%	0.132%
260	19.705	19.623	19.734	VV	10008	624171	6.02%	0.283%
261	19.790	19.734	19.826	VV	14209	624072	6.02%	0.283%
262	19.845	19.826	19.859	VV	11321	214787	2.07%	0.097%
263	19.872	19.859	19.883	VV	10732	156820	1.51%	0.071%
264	19.904	19.883	19.914	VV	11159	202280	1.95%	0.092%
265	19.946	19.914	19.958	VV	11320	292917	2.82%	0.133%
266	20.042	19.958	20.078	VV	13117	881207	8.49%	0.400%
267	20.160	20.078	20.221	VV	265968	4943201	47.65%	2.241%
268	20.232	20.221	20.256	VV	14160	297332	2.87%	0.135%
269	20.320	20.256	20.341	VV	18304	801823	7.73%	0.364%

270	20.385	20.341	20.455	VV	rteres 19023	1156179	11.14%	0.524%
271	20.473	20.455	20.490	VV	14997	314471	3.03%	0.143%
272	20.518	20.490	20.553	VV	16321	575518	5.55%	0.261%
273	20.564	20.553	20.584	VV	14332	264627	2.55%	0.120%
274	20.628	20.584	20.638	VV	14676	459671	4.43%	0.208%
275	20.656	20.638	20.681	VV	14753	380025	3.66%	0.172%
276	20.687	20.681	20.731	VV	14683	433882	4.18%	0.197%
277	20.740	20.731	20.754	VV	14447	200651	1.93%	0.091%
278	20.766	20.754	20.790	VV	14193	295248	2.85%	0.134%
279	20.801	20.790	20.822	VV	13685	259437	2.50%	0.118%
280	20.839	20.822	20.851	VV	13509	239909	2.31%	0.109%
281	20.921	20.851	21.058	VV	208775	5402452	52.07%	2.449%
282	21.064	21.058	21.146	VV	13273	674738	6.50%	0.306%
283	21.160	21.146	21.174	VV	12796	214099	2.06%	0.097%
284	21.218	21.174	21.231	VV	12771	428899	4.13%	0.194%
285	21.251	21.231	21.277	VV	12859	347410	3.35%	0.158%
286	21.286	21.277	21.320	VV	12614	328941	3.17%	0.149%
287	21.358	21.320	21.432	VV	13246	834952	8.05%	0.379%
288	21.452	21.432	21.468	VV	11959	255316	2.46%	0.116%
289	21.500	21.468	21.511	VV	12105	309519	2.98%	0.140%
290	21.519	21.511	21.551	VV	11978	283178	2.73%	0.128%
291	21.561	21.551	21.568	VV	11859	124017	1.20%	0.056%
292	21.579	21.568	21.601	VV	11935	230014	2.22%	0.104%
293	21.618	21.601	21.674	VV	12088	519865	5.01%	0.236%
294	21.682	21.674	21.718	VV	11596	296301	2.86%	0.134%
295	21.738	21.718	21.787	VV	11529	465750	4.49%	0.211%
296	21.874	21.787	21.991	VV	162661	4951720	47.73%	2.245%
297	22.010	21.991	22.032	VV	10789	260087	2.51%	0.118%
298	22.080	22.032	22.168	VV	11224	870606	8.39%	0.395%
299	22.173	22.168	22.228	VV	10373	360822	3.48%	0.164%
300	22.236	22.228	22.254	VV	9814	152576	1.47%	0.069%
301	22.264	22.254	22.311	VBA	9621	341897	3.30%	0.155%
Sum of corrected areas:						220566470		

Aliphatic EPH 100725.M Mon Nov 03 01:09:40 2025



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

Manual Integration Report

Sequence:	FC100725AL	Instrument	FID_c
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM ALIPHATIC HC	FC069940.D	n-Tetratriacontane (C34)	yogesh	10/7/2025 10:33:24 AM	mohammad	10/8/2025 3:35:18	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FC103125AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FE103025AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3485-01	FE056583.D	ortho-Terphenyl (SURR)	rahul	10/31/2025 4:28:28 PM	yogesh	10/31/2025 4:28:57	Peak Integrated by Software
Q3485-02	FE056584.D	1-chlorooctadecane (SURR)	rahul	10/31/2025 4:28:31 PM	yogesh	10/31/2025 4:28:58	Peak Integrated by Software
Q3485-02	FE056584.D	ortho-Terphenyl (SURR)	rahul	10/31/2025 4:28:31 PM	yogesh	10/31/2025 4:28:58	Peak Integrated by Software
Q3490-01	FE056595.D	ortho-Terphenyl (SURR)	rahul	10/31/2025 4:28:34 PM	yogesh	10/31/2025 4:29:00	Peak Integrated by Software

Manual Integration Report

Sequence:	FE103125AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3503-05	FE056621.D	ortho-Terphenyl (SURR)	rahul	11/3/2025 8:10:26 AM	yogesh	11/3/2025 8:43:46	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100725AL

Review By	yogesh	Review On	10/7/2025 10:33:30 AM
Supervise By	mohammad	Supervise On	10/8/2025 3:35:18 AM
SubDirectory	FC100725AL	HP Acquire Method	HP Processing Method FC100725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069935.D	06 Oct 2025 14:47	YP/AJ	Ok
2	I.BLK	FC069936.D	06 Oct 2025 15:31	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069937.D	06 Oct 2025 16:17	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069938.D	06 Oct 2025 17:03	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069939.D	06 Oct 2025 17:50	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069940.D	06 Oct 2025 18:35	YP/AJ	Ok,M
7	5 PPM ALIPHATIC HC STD5	FC069941.D	06 Oct 2025 19:19	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069942.D	06 Oct 2025 20:02	YP/AJ	Ok
9	I.BLK	FC069943.D	06 Oct 2025 21:29	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069944.D	06 Oct 2025 22:12	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC103125AL

Review By	yogesh	Review On	10/31/2025 2:35:43 PM
Supervise By	rahul	Supervise On	11/3/2025 8:12:04 AM
SubDirectory	FC103125AL	HP Acquire Method	HP Processing Method FC100725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC070096.D	31 Oct 2025 08:47	YP/AJ	Ok
2	I.BLK	FC070097.D	31 Oct 2025 09:29	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC070098.D	31 Oct 2025 10:11	YP/AJ	Ok
4	PB170345BS	FC070099.D	31 Oct 2025 11:25	YP/AJ	Ok
5	PB170345BSD	FC070100.D	31 Oct 2025 12:06	YP/AJ	Ok
6	PB170345BL	FC070101.D	31 Oct 2025 12:48	YP/AJ	Ok
7	Q3477-03	FC070102.D	31 Oct 2025 13:51	YP/AJ	Ok
8	I.BLK	FC070103.D	31 Oct 2025 14:34	YP/AJ	Ok
9	20 PPM ALIPHATIC HC STD	FC070104.D	31 Oct 2025 15:17	YP/AJ	Ok
10	PB170341BL	FC070105.D	31 Oct 2025 16:00	YP/AJ	Ok
11	PB170341BS	FC070106.D	31 Oct 2025 16:43	YP/AJ	Ok
12	PB170341BSD	FC070107.D	31 Oct 2025 17:25	YP/AJ	Ok
13	Q3496-01	FC070108.D	31 Oct 2025 18:08	YP/AJ	Ok
14	Q3496-01D	FC070109.D	31 Oct 2025 18:50	YP/AJ	Ok
15	Q3496-01MS	FC070110.D	31 Oct 2025 19:32	YP/AJ	Ok
16	Q3496-01MSD	FC070111.D	31 Oct 2025 20:14	YP/AJ	Ok
17	I.BLK	FC070112.D	31 Oct 2025 21:38	YP/AJ	Ok
18	20 PPM ALIPHATIC HC STD	FC070113.D	31 Oct 2025 22:21	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056573.D	30 Oct 2025 09:19	YP\AJ	Ok
2	I.BLK	FE056574.D	30 Oct 2025 09:49	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE056575.D	30 Oct 2025 10:20	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE056576.D	30 Oct 2025 10:50	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE056577.D	30 Oct 2025 11:20	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE056578.D	30 Oct 2025 11:51	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE056579.D	30 Oct 2025 12:21	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE056580.D	30 Oct 2025 12:51	YP\AJ	Ok
9	I.BLK	FE056581.D	30 Oct 2025 13:21	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE056582.D	30 Oct 2025 13:52	YP\AJ	Ok
11	Q3485-01	FE056583.D	30 Oct 2025 14:52	YP\AJ	Ok,M
12	Q3485-02	FE056584.D	30 Oct 2025 15:23	YP\AJ	Ok,M
13	Q3486-01	FE056585.D	30 Oct 2025 15:53	YP\AJ	Ok
14	Q3486-02	FE056586.D	30 Oct 2025 16:25	YP\AJ	Ok
15	Q3486-03	FE056587.D	30 Oct 2025 16:56	YP\AJ	Dilution
16	Q3486-04	FE056588.D	30 Oct 2025 17:26	YP\AJ	Ok
17	Q3486-06	FE056589.D	30 Oct 2025 17:57	YP\AJ	Ok
18	Q3486-07	FE056590.D	30 Oct 2025 18:27	YP\AJ	ReRun
19	Q3486-08	FE056591.D	30 Oct 2025 18:58	YP\AJ	ReRun
20	Q3488-01	FE056592.D	30 Oct 2025 19:28	YP\AJ	Ok
21	Q3488-04	FE056593.D	30 Oct 2025 19:59	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

22	Q3488-06	FE056594.D	30 Oct 2025 20:29	YP\AJ	Dilution
23	Q3490-01	FE056595.D	30 Oct 2025 21:00	YP\AJ	Dilution
24	Q3488-02	FE056596.D	30 Oct 2025 21:30	YP\AJ	Dilution
25	I.BLK	FE056597.D	30 Oct 2025 23:01	YP\AJ	Ok
26	20 PPM ALIPHATIC HC STD	FE056598.D	30 Oct 2025 23:32	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103125AL

Review By	rahul	Review On	11/3/2025 8:10:45 AM
Supervise By	yogesh	Supervise On	11/3/2025 8:43:54 AM
SubDirectory	FE103125AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056599.D	31 Oct 2025 07:19	YP\AJ	Ok
2	I.BLK	FE056600.D	31 Oct 2025 08:50	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE056601.D	31 Oct 2025 09:51	YP\AJ	Ok
4	Q3486-07	FE056602.D	31 Oct 2025 10:21	YP\AJ	Ok
5	Q3486-08	FE056603.D	31 Oct 2025 10:52	YP\AJ	Ok
6	Q3486-03DL	FE056604.D	31 Oct 2025 11:22	YP\AJ	Ok
7	Q3488-04DL	FE056605.D	31 Oct 2025 11:56	YP\AJ	Not Ok
8	Q3488-04DL	FE056606.D	31 Oct 2025 12:26	YP\AJ	Ok
9	Q3488-06DL	FE056607.D	31 Oct 2025 12:57	YP\AJ	Ok
10	Q3490-01DL	FE056608.D	31 Oct 2025 13:27	YP\AJ	Ok
11	Q3488-02DL	FE056609.D	31 Oct 2025 13:58	YP\AJ	Ok
12	I.BLK	FE056610.D	31 Oct 2025 14:28	YP\AJ	Ok
13	20 PPM ALIPHATIC HC STD	FE056611.D	31 Oct 2025 14:58	YP\AJ	Ok
14	Q3495-02	FE056612.D	31 Oct 2025 15:59	YP\AJ	Ok
15	Q3496-02	FE056613.D	31 Oct 2025 16:29	YP\AJ	Ok
16	Q3497-01	FE056614.D	31 Oct 2025 17:00	YP\AJ	Ok
17	Q3497-02	FE056615.D	31 Oct 2025 17:30	YP\AJ	Ok
18	Q3499-01	FE056616.D	31 Oct 2025 18:01	YP\AJ	Dilution
19	Q3504-01	FE056617.D	31 Oct 2025 18:31	YP\AJ	Ok
20	Q3501-01	FE056618.D	31 Oct 2025 19:01	YP\AJ	Dilution
21	Q3503-01DL	FE056619.D	31 Oct 2025 19:32	YP\AJ	Ok,NR

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103125AL

Review By	rahul	Review On	11/3/2025 8:10:45 AM
Supervise By	yogesh	Supervise On	11/3/2025 8:43:54 AM
SubDirectory	FE103125AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

22	Q3503-03DL	FE056620.D	31 Oct 2025 20:02	YP\AJ	Ok,NR
23	Q3503-05	FE056621.D	31 Oct 2025 20:32	YP\AJ	Not Ok
24	I.BLK	FE056622.D	31 Oct 2025 22:03	YP\AJ	Ok
25	20 PPM ALIPHATIC HC STD	FE056623.D	31 Oct 2025 22:33	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100725AL

Review By	yogesh	Review On	10/7/2025 10:33:30 AM
Supervise By	mohammad	Supervise On	10/8/2025 3:35:18 AM
SubDirectory	FC100725AL	HP Acquire Method	HP Processing Method FC100725AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069935.D	06 Oct 2025 14:47		YP/AJ	Ok
2	I.BLK	I.BLK	FC069936.D	06 Oct 2025 15:31		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC069937.D	06 Oct 2025 16:17		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069938.D	06 Oct 2025 17:03		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069939.D	06 Oct 2025 17:50		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069940.D	06 Oct 2025 18:35		YP/AJ	Ok,M
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069941.D	06 Oct 2025 19:19		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069942.D	06 Oct 2025 20:02		YP/AJ	Ok
9	I.BLK	I.BLK	FC069943.D	06 Oct 2025 21:29		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069944.D	06 Oct 2025 22:12		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC103125AL

Review By	yogesh	Review On	10/31/2025 2:35:43 PM
Supervise By	rahul	Supervise On	11/3/2025 8:12:04 AM
SubDirectory	FC103125AL	HP Acquire Method	HP Processing Method FC100725AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC070096.D	31 Oct 2025 08:47		YP/AJ	Ok
2	I.BLK	I.BLK	FC070097.D	31 Oct 2025 09:29		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC070098.D	31 Oct 2025 10:11		YP/AJ	Ok
4	PB170345BS	PB170345BS	FC070099.D	31 Oct 2025 11:25	naphthalene break down - 0.177, 2-methylnepthalene break down - 0.209	YP/AJ	Ok
5	PB170345BSD	PB170345BSD	FC070100.D	31 Oct 2025 12:06	naphthalene break down - 0.241, 2-methylnepthalene break down - 0.180	YP/AJ	Ok
6	PB170345BL	PB170345BL	FC070101.D	31 Oct 2025 12:48		YP/AJ	Ok
7	Q3477-03	SOUTH-MAHWAH-WA	FC070102.D	31 Oct 2025 13:51		YP/AJ	Ok
8	I.BLK	I.BLK	FC070103.D	31 Oct 2025 14:34		YP/AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC070104.D	31 Oct 2025 15:17		YP/AJ	Ok
10	PB170341BL	PB170341BL	FC070105.D	31 Oct 2025 16:00		YP/AJ	Ok
11	PB170341BS	PB170341BS	FC070106.D	31 Oct 2025 16:43		YP/AJ	Ok
12	PB170341BSD	PB170341BSD	FC070107.D	31 Oct 2025 17:25		YP/AJ	Ok
13	Q3496-01	DRILL-CUTTINGS	FC070108.D	31 Oct 2025 18:08		YP/AJ	Ok
14	Q3496-01D	Q3496-01D	FC070109.D	31 Oct 2025 18:50		YP/AJ	Ok
15	Q3496-01MS	DRILL-CUTTINGSMS	FC070110.D	31 Oct 2025 19:32	FC070108.D	YP/AJ	Ok
16	Q3496-01MSD	DRILL-CUTTINGSMSD	FC070111.D	31 Oct 2025 20:14	FC070108.D!FC070110.D	YP/AJ	Ok

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC103125AL

Review By	yogesh	Review On	10/31/2025 2:35:43 PM
Supervise By	rahul	Supervise On	11/3/2025 8:12:04 AM
SubDirectory	FC103125AL	HP Acquire Method	HP Processing Method FC100725AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

17	I.BLK	I.BLK	FC070112.D	31 Oct 2025 21:38		YP/AJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC070113.D	31 Oct 2025 22:21		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method
			FE103025AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056573.D	30 Oct 2025 09:19		YP\AJ	Ok
2	I.BLK	I.BLK	FE056574.D	30 Oct 2025 09:49		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE056575.D	30 Oct 2025 10:20		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE056576.D	30 Oct 2025 10:50		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056577.D	30 Oct 2025 11:20		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE056578.D	30 Oct 2025 11:51		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE056579.D	30 Oct 2025 12:21		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056580.D	30 Oct 2025 12:51		YP\AJ	Ok
9	I.BLK	I.BLK	FE056581.D	30 Oct 2025 13:21		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056582.D	30 Oct 2025 13:52		YP\AJ	Ok
11	Q3485-01	TR-04-102925	FE056583.D	30 Oct 2025 14:52		YP\AJ	Ok,M
12	Q3485-02	TR-04-102925-E2	FE056584.D	30 Oct 2025 15:23		YP\AJ	Ok,M
13	Q3486-01	TP3	FE056585.D	30 Oct 2025 15:53		YP\AJ	Ok
14	Q3486-02	TP3-E2	FE056586.D	30 Oct 2025 16:25		YP\AJ	Ok
15	Q3486-03	TP4	FE056587.D	30 Oct 2025 16:56	Need 5X,Surrogate fail	YP\AJ	Dilution
16	Q3486-04	TP4-E2	FE056588.D	30 Oct 2025 17:26		YP\AJ	Ok
17	Q3486-06	TP5-E2	FE056589.D	30 Oct 2025 17:57		YP\AJ	Ok
18	Q3486-07	TP6	FE056590.D	30 Oct 2025 18:27	Surrogate fail	YP\AJ	ReRun

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103025AL

Review By	yogesh	Review On	10/30/2025 10:43:15 AM
Supervise By	Sohil	Supervise On	10/30/2025 4:01:31 PM
SubDirectory	FE103025AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

19	Q3486-08	TP6-E2	FE056591.D	30 Oct 2025 18:58	Surrogate fail	YP\AJ	ReRun
20	Q3488-01	MOO-25-0294-0298	FE056592.D	30 Oct 2025 19:28		YP\AJ	Ok
21	Q3488-04	MOO-25-0302-0310	FE056593.D	30 Oct 2025 19:59	Need 500X	YP\AJ	Dilution
22	Q3488-06	MOO-25-0311-0313	FE056594.D	30 Oct 2025 20:29	Need further 20X	YP\AJ	Dilution
23	Q3490-01	LAW-25-0151	FE056595.D	30 Oct 2025 21:00	Need further 10X	YP\AJ	Dilution
24	Q3488-02	MOO-25-0299	FE056596.D	30 Oct 2025 21:30	Need further 20X	YP\AJ	Dilution
25	I.BLK	I.BLK	FE056597.D	30 Oct 2025 23:01		YP\AJ	Ok
26	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056598.D	30 Oct 2025 23:32		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103125AL

Review By	rahul	Review On	11/3/2025 8:10:45 AM
Supervise By	yogesh	Supervise On	11/3/2025 8:43:54 AM
SubDirectory	FE103125AL	HP Acquire Method	HP Processing Method FE103025AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056599.D	31 Oct 2025 07:19		YP\AJ	Ok
2	I.BLK	I.BLK	FE056600.D	31 Oct 2025 08:50		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056601.D	31 Oct 2025 09:51		YP\AJ	Ok
4	Q3486-07	TP6	FE056602.D	31 Oct 2025 10:21		YP\AJ	Ok
5	Q3486-08	TP6-E2	FE056603.D	31 Oct 2025 10:52		YP\AJ	Ok
6	Q3486-03DL	TP4DL	FE056604.D	31 Oct 2025 11:22		YP\AJ	Ok
7	Q3488-04DL	MOO-25-0302-0310DL	FE056605.D	31 Oct 2025 11:56	Not Required	YP\AJ	Not Ok
8	Q3488-04DL	MOO-25-0302-0310DL	FE056606.D	31 Oct 2025 12:26		YP\AJ	Ok
9	Q3488-06DL	MOO-25-0311-0313DL	FE056607.D	31 Oct 2025 12:57		YP\AJ	Ok
10	Q3490-01DL	LAW-25-0151DL	FE056608.D	31 Oct 2025 13:27		YP\AJ	Ok
11	Q3488-02DL	MOO-25-0299DL	FE056609.D	31 Oct 2025 13:58		YP\AJ	Ok
12	I.BLK	I.BLK	FE056610.D	31 Oct 2025 14:28		YP\AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056611.D	31 Oct 2025 14:58		YP\AJ	Ok
14	Q3495-02	SB-1025-2	FE056612.D	31 Oct 2025 15:59		YP\AJ	Ok
15	Q3496-02	DRILL-CUTTINGS-E2	FE056613.D	31 Oct 2025 16:29		YP\AJ	Ok
16	Q3497-01	OK-01-103025	FE056614.D	31 Oct 2025 17:00		YP\AJ	Ok
17	Q3497-02	OK-01-103025-E2	FE056615.D	31 Oct 2025 17:30		YP\AJ	Ok
18	Q3499-01	RBR251235	FE056616.D	31 Oct 2025 18:01	Need 5X , 250X	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE103125AL

Review By	rahul	Review On	11/3/2025 8:10:45 AM
Supervise By	yogesh	Supervise On	11/3/2025 8:43:54 AM
SubDirectory	FE103125AL	HP Acquire Method	HP Processing Method FE103025AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

19	Q3504-01	72-11986	FE056617.D	31 Oct 2025 18:31		YP\AJ	Ok
20	Q3501-01	461	FE056618.D	31 Oct 2025 19:01	Need further 50X	YP\AJ	Dilution
21	Q3503-01DL	322DL	FE056619.D	31 Oct 2025 19:32		YP\AJ	Ok,NR
22	Q3503-03DL	323DL	FE056620.D	31 Oct 2025 20:02		YP\AJ	Ok,NR
23	Q3503-05	324	FE056621.D	31 Oct 2025 20:32	Not Required	YP\AJ	Not Ok
24	I.BLK	I.BLK	FE056622.D	31 Oct 2025 22:03		YP\AJ	Ok
25	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056623.D	31 Oct 2025 22:33		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137714

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
Q3483-24	HW1025-PT-SOL-SOIL	1	1.16	10.70	11.86	9.24	75.5	
Q3487-01	KZZ294Z-A	2	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-02	KZZ294Z-B	3	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-03	KZZ256R-A	4	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-04	KZZ256R-B	5	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-05	JEH623H-A	6	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-06	JEH623H-B	7	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-07	M3-A	8	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-08	M3-B	9	1.00	1.00	2.00	2.00	100.0	PILC
Q3488-01	MOO-25-0294-0298	10	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3488-02	MOO-25-0299	11	1.15	10.33	11.48	10.88	94.2	
Q3488-04	MOO-25-0302-0310	12	1.18	10.45	11.63	10.08	85.2	
Q3488-05	MOO-25-0302-0310	13	1.15	10.46	11.61	10.7	91.3	
Q3488-06	MOO-25-0311-0313	46	1.15	10.37	11.52	10.64	91.5	
Q3489-01	245F72-A	14	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-02	245F72-B	15	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-03	L54-A	16	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-04	L54-B	17	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-05	L55-A	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-06	L55-A	19	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-07	L56-A	20	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-08	L56-B	21	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-09	L57-A	22	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-10	L57-B	23	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-11	L58-A	24	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-12	L58-2	25	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-13	L59-A	26	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-14	L59-B	27	1.00	1.00	2.00	2.00	100.0	PILC



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137714

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
Q3489-15	L60-A	28	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-16	L60-B	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-17	L61-A	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-18	L61-B	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-19	L62-A	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-20	L62-B	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-21	L63-A	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-22	L63-B	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-23	L64-A	36	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-24	L64-B	37	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-25	L65-A	38	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-26	L65-B	39	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-27	STC21-A	40	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-28	STC21-B	41	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-29	STF24-A	42	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-30	STF24-B	43	1.00	1.00	2.00	2.00	100.0	PILC
Q3490-01	LAW-25-0151	44	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3491-01	SOIL-CUTTINGS-COMP	45	1.18	10.80	11.98	9.13	73.6	
Q3495-01	SB-1025-1	47	1.19	10.24	11.43	8.99	76.2	
Q3495-02	SB-1025-2	48	1.14	10.43	11.57	8.97	75.1	
Q3496-01	DRILL-CUTTINGS	49	1.19	10.61	11.8	10.33	86.1	
Q3496-02	DRILL-CUTTINGS-E2	50	1.13	10.49	11.62	10.11	85.6	
Q3497-01	OK-01-103025	51	1.13	10.93	12.06	10.37	84.5	
Q3497-02	OK-01-103025-E2	52	1.19	10.59	11.78	10.25	85.6	

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

WORKLIST(Hardcopy Internal Chain)

137714

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-24	HW1025-PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3487-01	KZZ294Z-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-02	KZZ294Z-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-03	KZZ256R-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-04	KZZ256R-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-05	JEH623H-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-06	JEH623H-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-07	M3-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-08	M3-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3488-01	MOO-25-0294-0298	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-02	MOO-25-0299	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-04	MOO-25-0302-0310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-05	MOO-25-0302-0310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-06	MOO-25-0311-0313	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-01	245F72-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-02	245F72-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-03	L54-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-04	L54-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-05	L55-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-06	L55-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-07	L56-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/30/25 15:00
 Raw Sample Received by: JG (wvc)
 Raw Sample Relinquished by: RS (137714-126)

Date/Time 10/30/25 17:30
 Raw Sample Received by: RS (137714-126)
 Raw Sample Relinquished by: JG (wvc)

WORKLIST(Hardcopy Internal Chain)

WB 137714

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3489-08	L56-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-09	L57-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-10	L57-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-11	L58-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-12	L58-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-13	L59-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-14	L59-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-15	L60-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-16	L60-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-17	L61-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-18	L61-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-19	L62-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-20	L62-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-21	L63-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-22	L63-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-23	L64-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-24	L64-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-25	L65-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-26	L65-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-27	STC21-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-28	STC21-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/30/25 Date/Time 17:30
 Raw Sample Received by: sg wvc Raw Sample Received by: R3 C EIT-1260
 Raw Sample Relinquished by: R3 C EIT-1260 Raw Sample Relinquished by: sg wvc

WORKLIST(Hardcopy Internal Chain)

UB 13FF14

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3489-29	STF24-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-30	STF24-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3490-01	LAW-25-0151	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3491-01	SOIL-CUTTINGS-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3495-01	SB-1025-1	Solid	Percent Solids	Cool 4 deg C	REMI02	D51	10/27/2025	Chemtech -SO
Q3495-02	SB-1025-2	Solid	Percent Solids	Cool 4 deg C	REMI02	D51	10/27/2025	Chemtech -SO
Q3496-01	DRILL-CUTTINGS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/30/2025	Chemtech -SO
Q3496-02	DRILL-CUTTINGS-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/30/2025	Chemtech -SO
Q3497-01	OK-01-103025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/30/2025	Chemtech -SO
Q3497-02	OK-01-103025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/30/2025	Chemtech -SO

Date/Time 10/30/25 15:00
 Raw Sample Received by: SB WWC
 Raw Sample Relinquished by: RS C (EIT-1066)

Date/Time 10/30/25 17:30
 Raw Sample Received by: RS C (EIT-1066)
 Raw Sample Relinquished by: SB WWC

SOP ID:	MNJDEP-EPH-8		
Clean Up SOP #:	N/A	Extraction Start Date :	10/31/2025
Matrix :	Solid	Extraction Start Time :	09:05
Weigh By:	EH	Extraction By:	RJ
Balance check:	EH	Extraction End Date :	10/31/2025
Balance ID:	EX-SC-2	Filter By:	RJ
pH Strip Lot#:	N/A	Extraction End Time :	13:05
		Concentration By:	EH
		Supervisor By :	RUPESH
Extraction Method:	☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP25005
Surrogate	1.0ML	100 PPM	PP25012
Fractionation Surrogate	1.0ML	100 PPM	PP24994
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	EP2655
Sand	N/A	E3951
Hexane	N/A	E3981
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Q3501-01,Q3503-01 & 03 used Limited volume as samples are Oily Debris.

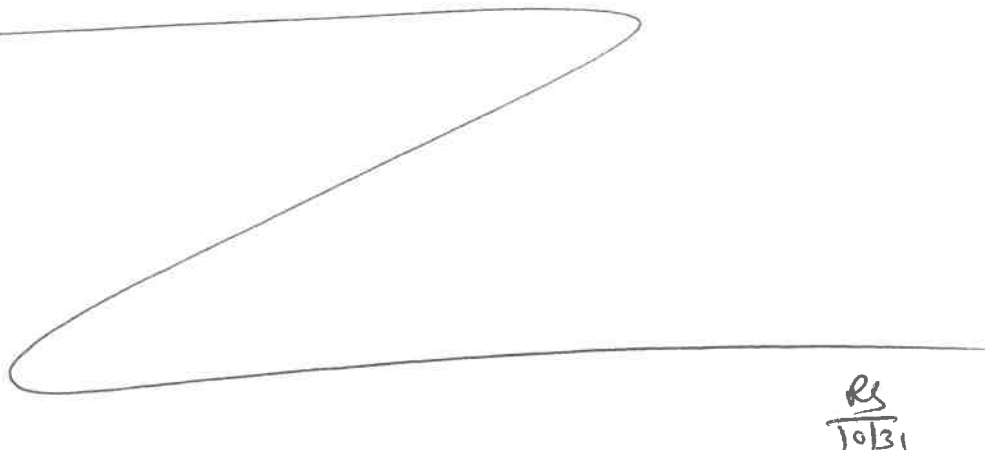
KD Bath ID:	N/A	Envap ID:	N-EVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/31/25	RJ (Ext Lab)	AP-Pest HPCB.
13:10	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 10/31/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170341BL	PB170341BL	EPH_NF	30.01	N/A	ritesh	Evelyn	2			U4-1
PB170341BS	PB170341BS	EPH_NF	30.02	N/A	ritesh	Evelyn	2			2
PB170341BSD	PB170341BSD	EPH_NF	30.03	N/A	ritesh	Evelyn	2			3
Q3495-02	SB-1025-2	EPH_NF	30.06	N/A	ritesh	Evelyn	2	E		4
Q3496-01	DRILL-CUTTINGS	EPH_NF	30.08	N/A	ritesh	Evelyn	2	E		5
Q3496-01DUP	DRILL-CUTTINGSDUP	EPH_NF	30.04	N/A	ritesh	Evelyn	2	E		6
Q3496-01MS	DRILL-CUTTINGSMS	EPH_NF	30.02	N/A	ritesh	Evelyn	2	E		U6-1
Q3496-01MSD	DRILL-CUTTINGSMSD	EPH_NF	30.08	N/A	ritesh	Evelyn	2	E		2
Q3496-02	DRILL-CUTTINGS-E2	EPH_NF	30.01	N/A	ritesh	Evelyn	2			3
Q3497-01	OK-01-103025	EPH_NF	30.06	N/A	ritesh	Evelyn	2	E		4
Q3497-02	OK-01-103025-E2	EPH_NF	30.09	N/A	ritesh	Evelyn	2			5
Q3499-01	RBR251235	EPH_NF	30.05	N/A	ritesh	Evelyn	2	E		6
Q3501-01	461	EPH_NF	5.07	N/A	ritesh	Evelyn	2	E	Oily Debris	U1-1
Q3503-01	322	EPH_NF	5.04	N/A	ritesh	Evelyn	2	E	Oily Debris	2
Q3503-03	323	EPH_NF	30.08	N/A	ritesh	Evelyn	2	E	Small Particles	3
Q3503-05	324	EPH_NF	5.06	N/A	ritesh	Evelyn	2	E	Oily Debris	4
Q3504-01	72-11986	EPH_NF	30.02	N/A	ritesh	Evelyn	2	E		5



WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3496 WorkList ID : 192811 Department : Extraction Date : 10-31-2025 08:25:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3495-02	SB-1025-2	Solid	EPH_NF	Cool 4 deg C	REMI02	D51	10/27/2025	NJEPH
Q3496-01	DRILL-CUTTINGS	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/30/2025	NJEPH
Q3496-02	DRILL-CUTTINGS-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/30/2025	NJEPH
Q3497-01	OK-01-103025	Solid	EPH_NF	Cool 4 deg C	PSEG05	D41	10/30/2025	NJEPH
Q3497-02	OK-01-103025-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	D41	10/30/2025	NJEPH
Q3499-01	RBR251235	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/30/2025	NJEPH
Q3501-01	461	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/30/2025	NJEPH
Q3503-01	322	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/30/2025	NJEPH
Q3503-03	323	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/30/2025	NJEPH
Q3503-05	324	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/30/2025	NJEPH

Date/Time 10/31/25 9:00
 Raw Sample Received by: RJ CLEA-VAB
 Raw Sample Relinquished by: [Signature]

Date/Time 10/31/25 9:25
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RJ CLEA-VAB

Prep Standard - Chemical Standard Summary

Order ID : Q3495

Test : EPH_NF

Prepbatch ID : PB170341,

Sequence ID/Qc Batch ID: FC103125AL,FE103125AL,

Standard ID :

EP2641,EP2655,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24994,PP25005,PP25012,

Chemical ID :

E3875,E3951,E3956,E3972,E3973,E3974,E3979,E3981,P12364,P13280,P13281,P13620,P13690,P14033,P14034,P14035,P14036,P14037,P14127,P14128,P14129,P14130,P14131,P14132,P14133,P14134,P14135,P14136,P14151,P14152,P14153,P14154,P14155,P14170,P14171,P14172,P14173,P14195,P14196,P14197,P14198,P14199,P14200,P14201,P14202,P14203,P14204,W3234,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2641	09/16/2025	03/16/2026	Evelyn Huang	None	None	Riteshkumar Patel
09/16/2025								

FROM 8000.00000ml of E3972 + 8000.00000ml of E3973 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESEKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
10/24/2025								

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
781	100 PPM Aliphatic HC Working STD (Restek)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = Final Quantity: 25.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = Final Quantity: 25.000 ml								

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
783	50 PPM Aliphatic HC STD	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.50000ml of W3234 + 0.50000ml of PP24768 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
785	10 PPM Aliphatic HC STD	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1331	100 PPM NJEPH Fractionating Surrogate	PP24994	10/09/2025	04/09/2026	Abdul Mirza	None	None	Yogesh Patel
								10/10/2025

FROM 1.25000ml of P14170 + 1.25000ml of P14171 + 1.25000ml of P14172 + 1.25000ml of P14173 + 195.00000ml of E3974 = Final Quantity: 200.000 ml



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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	07/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/10/2027	09/26/2025 / Riteshkumar	09/26/2025 / Riteshkumar	E3974

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24L1062001	10/04/2027	10/15/2025 / RITESHKUMAR	09/29/2025 / Riteshkumar	E3979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/30/2026	10/27/2025 / RUPESH	10/22/2025 / RUPESH	E3981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14033

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14034

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14035

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14036

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	04/27/2026	10/27/2025 / Abdul	06/02/2025 / Rahul	P14037

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	07/31/2032	10/22/2025 / Abdul	09/16/2025 / Abdul	P14128

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14129

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14131

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14132

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14133

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14134

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	04/22/2026	10/22/2025 / Abdul	09/16/2025 / Abdul	P14136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14152

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14153

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/27/2026	10/27/2025 / Abdul	09/24/2025 / Abdul	P14155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14170

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14171

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14172

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0227585	04/09/2026	10/09/2025 / Abdul	10/01/2025 / Abdul	P14173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14196

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14197

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14198

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14199

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0231145	04/22/2026	10/22/2025 / Abdul	10/21/2025 / Abdul	P14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5\%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95\%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC



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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

RE-02-01, Ed. 3

E 3875



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

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

Received on 1/12/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

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

Received on 7/16/25

E3956

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

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

E3972

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors**™



Material No.: 9254-03

Batch No.: 24L1062001

Manufactured Date: 2024-10-04

Expiration Date: 2027-10-04

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.1
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3979



Jamie Croak

Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

Received on 10/22/25

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

E3981

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

P14127
P14141
15
9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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

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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

P14127
P14141
15
9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

P14127
P14141
15
9/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30542 **Lot No.:** A0226411

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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

P14127
P14141
15
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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667



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Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

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

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

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

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CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193	µg/mL	Gravimetric	
			+/- 50.0027	µg/mL	Unstressed	
			+/- 59.9491	µg/mL	Stressed	
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232	µg/mL	Gravimetric	
			+/- 50.0193	µg/mL	Unstressed	
			+/- 59.9689	µg/mL	Stressed	
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271	µg/mL	Gravimetric	
			+/- 50.0358	µg/mL	Unstressed	
			+/- 59.9888	µg/mL	Stressed	
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841	µg/mL	Gravimetric	
			+/- 49.8538	µg/mL	Unstressed	
			+/- 59.7705	µg/mL	Stressed	
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784	µg/mL	Gravimetric	
			+/- 49.8299	µg/mL	Unstressed	
			+/- 59.7419	µg/mL	Stressed	
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349	µg/mL	Gravimetric	
			+/- 50.0689	µg/mL	Unstressed	
			+/- 60.0284	µg/mL	Stressed	
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244	µg/mL	Gravimetric	
			+/- 50.0246	µg/mL	Unstressed	
			+/- 59.9753	µg/mL	Stressed	

8	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	2,004.7 µg/mL	+/-	11.7645	µg/mL	Gravimetric
				+/-	49.7710	µg/mL	Unstressed
				+/-	59.6712	µg/mL	Stressed
9	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	(Lot MKCF7888)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
10	n-Heneicosane (C21) CAS # 629-94-7 Purity 99%	(Lot MKCL3226)	2,000.7 µg/mL	+/-	11.7410	µg/mL	Gravimetric
				+/-	49.6717	µg/mL	Unstressed
				+/-	59.5522	µg/mL	Stressed
11	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	2,005.3 µg/mL	+/-	11.7684	µg/mL	Gravimetric
				+/-	49.7876	µg/mL	Unstressed
				+/-	59.6911	µg/mL	Stressed
12	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
13	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	2,014.0 µg/mL	+/-	11.8193	µg/mL	Gravimetric
				+/-	50.0027	µg/mL	Unstressed
				+/-	59.9491	µg/mL	Stressed
14	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
				+/-	49.7048	µg/mL	Unstressed
				+/-	59.5919	µg/mL	Stressed
15	n-Triacontane (C30) CAS # 638-68-6 Purity 97%	(Lot MKCQ9436)	2,011.1 µg/mL	+/-	11.8025	µg/mL	Gravimetric
				+/-	49.9316	µg/mL	Unstressed
				+/-	59.8637	µg/mL	Stressed
16	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
				+/-	49.9531	µg/mL	Unstressed
				+/-	59.8895	µg/mL	Stressed
17	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	2,006.7 µg/mL	+/-	11.7762	µg/mL	Gravimetric
				+/-	49.8207	µg/mL	Unstressed
				+/-	59.7308	µg/mL	Stressed
18	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot Z27H018)	2,017.3 µg/mL	+/-	11.8388	µg/mL	Gravimetric
				+/-	50.0855	µg/mL	Unstressed
				+/-	60.0483	µg/mL	Stressed
19	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 96%	(Lot 0000145137)	2,017.3 µg/mL	+/-	11.8385	µg/mL	Gravimetric
				+/-	50.0842	µg/mL	Unstressed
				+/-	60.0467	µg/mL	Stressed
20	n-Tetracontane (C40) CAS # 4181-95-7 Purity 99%	(Lot BSBME)	2,008.7 µg/mL	+/-	11.7880	µg/mL	Gravimetric
				+/-	49.8703	µg/mL	Unstressed
				+/-	59.7903	µg/mL	Stressed
Solvent: Hexane/Carbon disulfide (80:20)							
	CAS # 110-54-3/75-15-0						
	Purity 99%						

Column:
30m x 0.25mm x 0.25µm
Pxx-5 (cat.#10223)

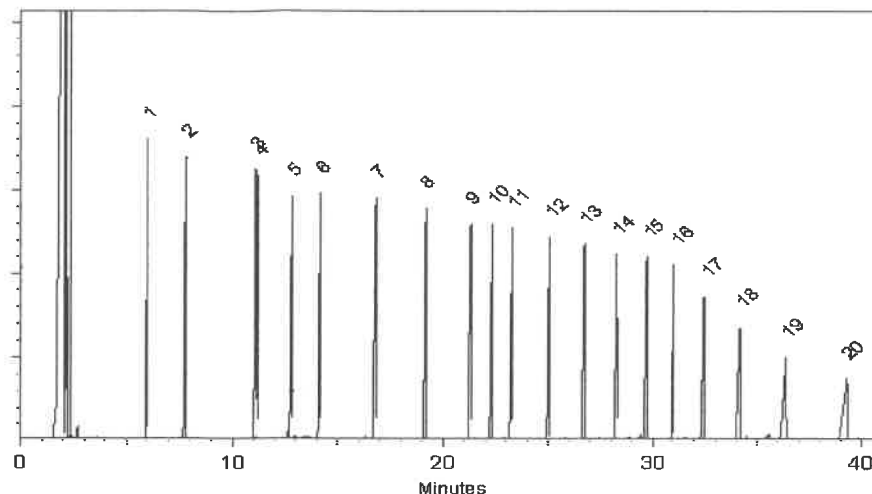
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

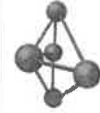
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED WEIGHT REPORT

Part Number: **95999**

Lot Number: **040524**

Description: **NJ EPH Aliphatic n-Hydrocarbons - Revised**
20 components

Expiration Date: **040534**

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test ID#: **6UTB**

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

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

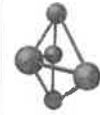
P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
																CAS#	OSHA PEL (TWA)	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ /8H)	or-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ /8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-08-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

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



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

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

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
																(Solvent Safety Info. On Attached pg.)	
																OSHA PEL (TWA)	
																CAS#	
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	583-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Triacosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetraacontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

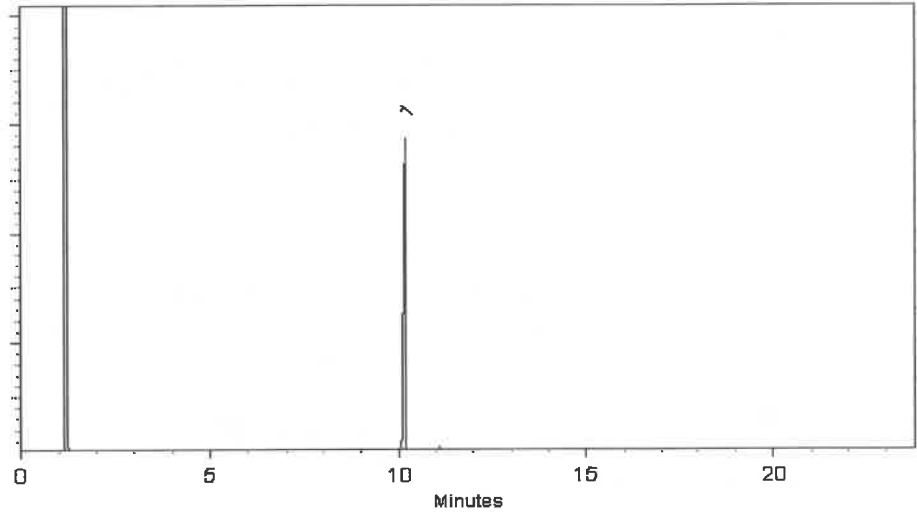
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

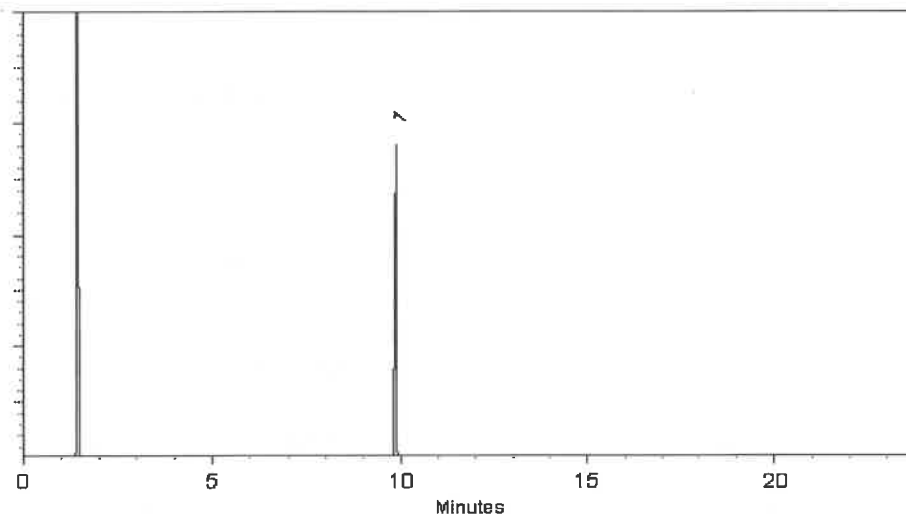
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

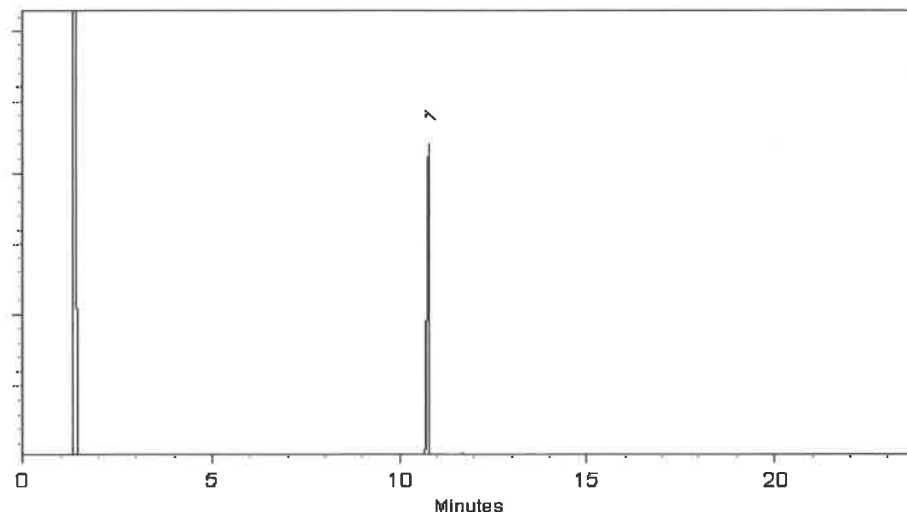
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015
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P14028
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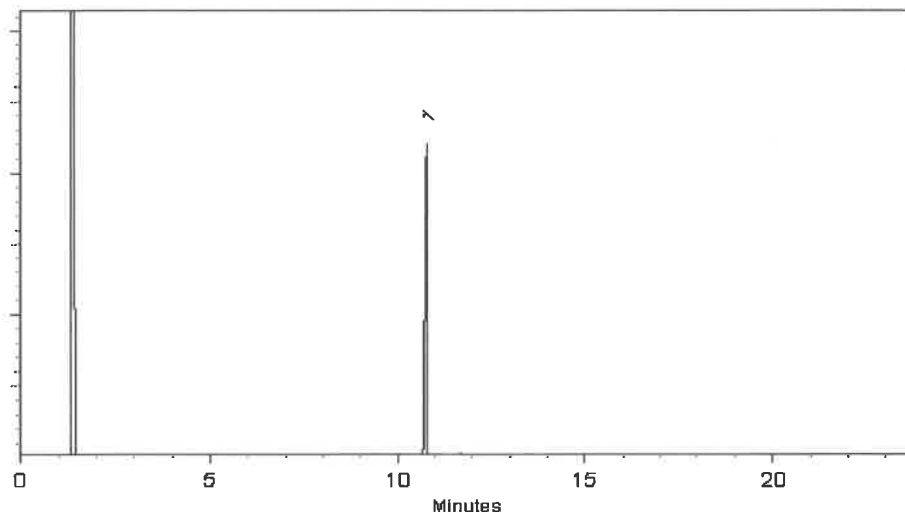
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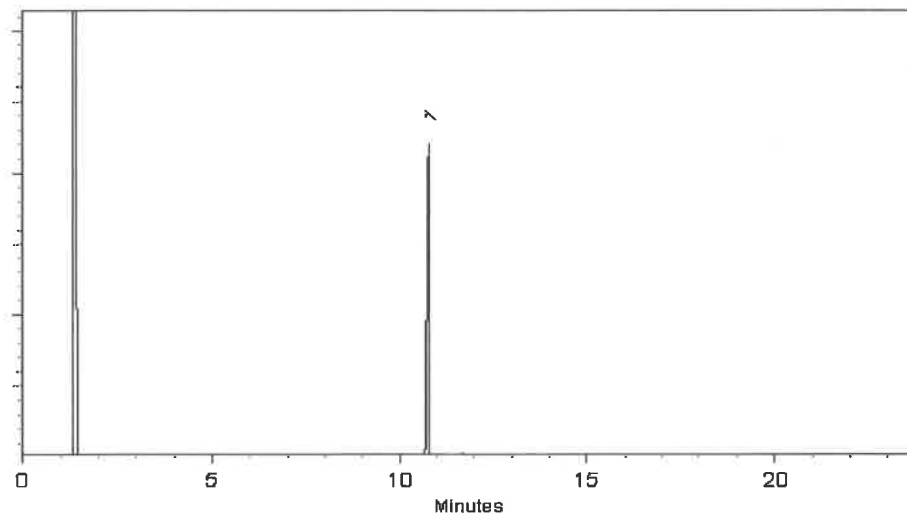
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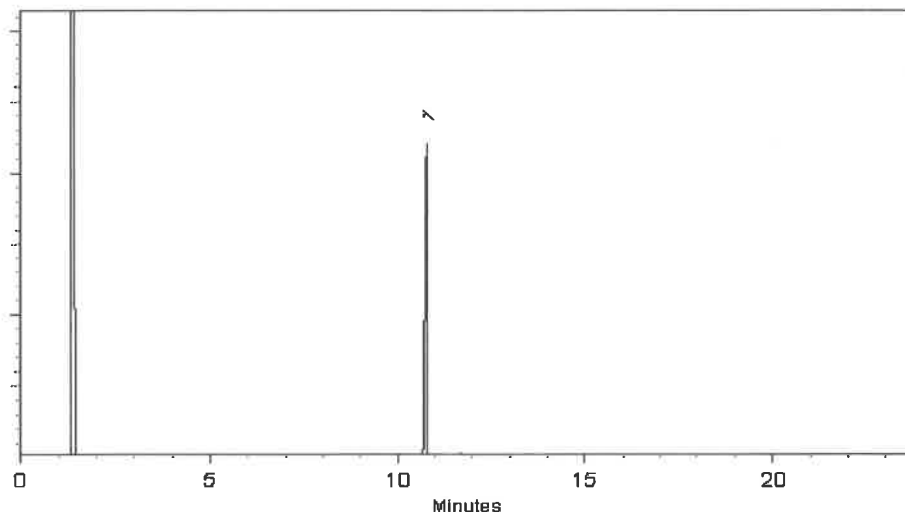
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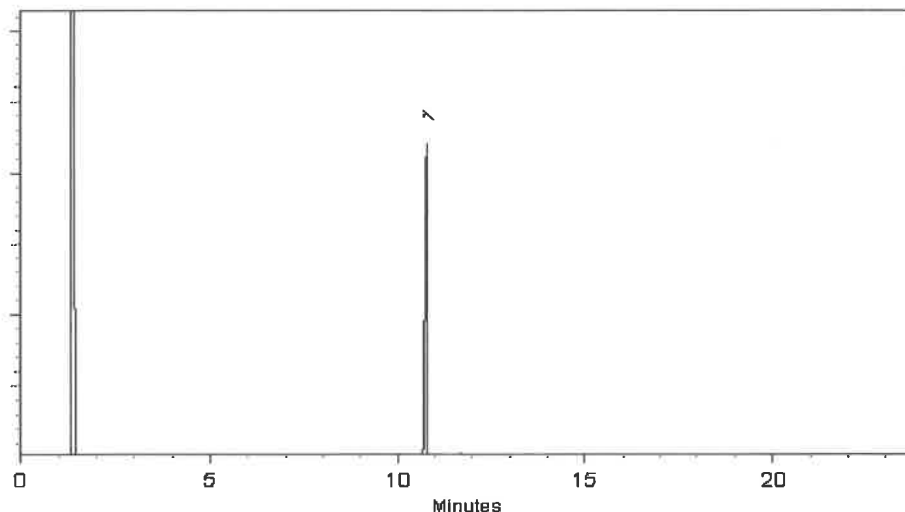
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Catalog No. : 31480 **Lot No.:** A0227585

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00024555	99%	4,006.0 µg/mL	+/- 180.4609
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,012.0 µg/mL	+/- 180.7312

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

P14170
↓
P14189
/

10/3/2025



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P14170
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P14170
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Catalog No. : 30543 **Lot No.:** A0231145

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14195 } (40)
↓
P14234
↓
RAUF
10/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.7 µg/mL	+/- 9.0431
2	Naphthalene	91-20-3	STBK9311	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	200.6 µg/mL	+/- 9.0402
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	201.1 µg/mL	+/- 9.0608
7	Phenanthrene	85-01-8	MKCV8193	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCV9141	99%	201.2 µg/mL	+/- 9.0655
9	Fluoranthene	206-44-0	A0458721	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCL8032	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I80012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP250926RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.8 µg/mL	+/- 9.0474
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.2 µg/mL	+/- 9.0655
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	200.8 µg/mL	+/- 9.0474



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Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14195 } (40)
↓
P14234
↓
RAUF
10/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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2	Naphthalene	91-20-3	STBK9311	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	200.6 µg/mL	+/- 9.0402
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	201.1 µg/mL	+/- 9.0608
7	Phenanthrene	85-01-8	MKCV8193	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCV9141	99%	201.2 µg/mL	+/- 9.0655
9	Fluoranthene	206-44-0	A0458721	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCL8032	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I80012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP250926RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.8 µg/mL	+/- 9.0474
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.2 µg/mL	+/- 9.0655
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	200.8 µg/mL	+/- 9.0474



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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14195 } (40)
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10/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.7 µg/mL	+/- 9.0431
2	Naphthalene	91-20-3	STBK9311	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	200.6 µg/mL	+/- 9.0402
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	201.1 µg/mL	+/- 9.0608
7	Phenanthrene	85-01-8	MKCV8193	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCW9141	99%	201.2 µg/mL	+/- 9.0655
9	Fluoranthene	206-44-0	A0458721	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCL8032	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I80012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP250926RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.8 µg/mL	+/- 9.0474
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.2 µg/mL	+/- 9.0655
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	200.8 µg/mL	+/- 9.0474



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n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantor**™



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

W3234 JB
OP4421 07/28/2025

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

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

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



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Remington Vernick Engineers
ADDRESS: 2059 Springdale Road
CITY: Cherry Hill STATE: NT ZIP: 08003
ATTENTION: Kyle Carson nk.com
PHONE: 856-795-9595 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Mockane Park SI
PROJECT NO.: 130TD25 LOCATION: Belmar, NJ
PROJECT MANAGER: Kyle Carson
e-mail: Kyle.Carson@nk.com
PHONE: 609-682-3049 FAX:

CLIENT BILLING INFORMATION

BILL TO: APinvol@nk.com PO#: 130TD25
ADDRESS: 2059 Springdale Road
CITY: Cherry Hill STATE: NT ZIP: 08003
ATTENTION: Kyle Carson PHONE: 856-795-9595

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STAT DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
EDD FORMAT: Hardsite

1. TCL PAHS 2. TAL Metals 3. VOCs 4. TCL PAHS 5. TAL Metals 6. VOCs 7. TCL PAHS 8. TAL Metals 9. VOCs

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E	E	A	E	B	D	F	F	F	
1.	SB-1025-1	S		X	10/21/25	10:00	2	1	1								
2.	SB-1025-2	S		X	10/21/25	10:45	7		1		2			1	2	1	CH ₄ , DI water
3.	TW-1025-1	GW		X	10/21/25	11:15	8			2	4	1	1				DI water (M)
4.	Trip Bank	GW		X	10/24/25	08:00	4			4							
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>Arriamater</u>	DATE/TIME: <u>10/21/25 11:30</u>	RECEIVED BY: <u>P. 1707</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.9</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: <u>10/21/25 11:30</u>	RECEIVED BY: <u>P. 1029-25</u>	Comments:
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>10/24/25 18:50</u>	RECEIVED BY: <u>[Signature]</u>	Comments:

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CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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 : Q3495	REMI02	Order Date : 10/30/2025 10:45:41 AM	Project Mgr :
Client Name : Remington & Vernick Engi		Project Name : Maclearie Park	Report Type : Level 1
Client Contact : Kyle Carlson		Receive DateTime : 10/30/2025 12:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Remington & Vernick Engi		Purchase Order : <i>29</i> <i>18:52</i>	Hard Copy Date :
Invoice Contact : Kyle Carlson			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3495-02	SB-1025-2	Solid	10/27/2025	10:45					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
Q3495-03	TW-1025-1	Water	10/27/2025	11:15					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low	10 Bus. Days	
Q3495-04	TB	Water	10/27/2025	08:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By : *OR*

Date / Time : *10/30/25 11:31*

Received By : *[Signature]*

Date / Time : *10/30/25 11:31*

Storage Area : VOA Refridgerator Room

Ref # 6
Ref # 2
Ref # 4