284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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

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

LAB CHRONICLE

OrderID:	Q3466	**OrderDate:**	10/24/2025 3:18:10 PM
Client:	HDR, Inc.	**Project:**	PVWC Linear Construction
Contact:	Andrew Wadden	**Location:**	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3466-02	**B8-0.0-1.0-20251023**	**SOIL**			**10/23/25**			**10/24/25**
			PCB	8082A		10/28/25	10/28/25	
			Pesticide-TCL	8081B		10/28/25	10/28/25	
			EPH_NF	NJEPH		10/28/25	10/28/25	
Q3466-05	**B9-0.0-1.0-20251023**	**SOIL**			**10/23/25**			**10/24/25**
			PCB	8082A		10/28/25	10/28/25	
			Pesticide-TCL	8081B		10/28/25	10/28/25	
Q3466-07	**B7-1.0-2.0-20251023**	**SOIL**			**10/23/25**			**10/24/25**
			PCB	8082A		10/28/25	10/28/25	
			Pesticide-TCL	8081B		10/28/25	10/28/25	

QC SUMMARY

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

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3466

Run Number: FC102825AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB170266BL	76	74		0
PB170266BS	78	75		0
PB170266BSD	81	77		0
TP-13MS	60	56		0
TP-13MSD	62	58		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

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

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG No.: Q3466

Run Number: FE102825AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
B8-0.0-1.0-20251023	54	52		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

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

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

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

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** HDR, Inc.

Lab Code: ACE **SDG No:** Q3466

Sample No : Q3469-01MS **Datafile:** FC070065.D **Client ID :** TP-13MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	32.9	4.96	27.5	68		(40-140)
Aliphatic C9-C28	109.6	3.38	61.2	53		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	3.7	0.0031	1.6750	45		(40-140)
n-Decane (C10)	3.7	0.0092	3.9220	106		(40-140)
Naphthalene (C11.7)	3.7	0.0145	2.1382	57		(40-140)
n-Dodecane (C12)	3.7	0.0033	1.9778	53		(40-140)
2-methylnaphthalene (C12.89)	3.7	0.0063	2.0784	56		(40-140)
n-Tetradecane (C14)	3.7	0.0107	2.1359	57		(40-140)
n-Hexadecane (C16)	3.7	0.0057	2.1631	58		(40-140)
n-Octadecane (C18)	3.7	0.0055	2.1524	58		(40-140)
n-Eicosane (C20)	3.7	0.0064	2.2529	61		(40-140)
n-Heneicosane (C21)	3.7	0.0100	2.2783	61		(40-140)
n-Docosane (C22)	3.7	0.0113	2.2582	61		(40-140)
n-Tetracosane (C24)	7.3	0.0422	6.6772	91		(40-140)
n-Hexacosane (C26)	3.7	0.0165	2.1813	59		(40-140)
n-Octacosane (C28)	3.7	0.0471	2.2362	59		(40-140)
n-Tricontane (C30)	3.7	0.0712	2.1325	56		(40-140)
n-Dotriacontane (C32)	3.7	0.1018	2.2041	57		(40-140)
n-Tetratriacontane (C34)	3.7	0.1178	2.4596	63		(40-140)
n-Hexatriacontane (C36)	3.7	0.2506	2.8854	71		(40-140)
n-Octatriacontane (C38)	3.7	0.2830	3.1235	77		(40-140)
n-Tetracontane (C40)	3.7	0.2191	3.1332	79		(40-140)

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

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** HDR, Inc.

Lab Code: ACE **SDG No:** Q3466

Sample No : Q3469-01MSD **Datafile:** FC070066.D **Client ID :** TP-13MSD

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	32.9	4.96	28.1	70		2.59 |	(40-140)	50
Aliphatic C9-C28	109.6	3.38	62.6	54		2.2 |	(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)	3.7	0.0031	1.7365	47		4.35 |	(40-140)	50
n-Decane (C10)	3.7	0.0092	4.0690	110		3.7 |	(40-140)	50
Naphthalene (C11.7)	3.7	0.0145	2.1994	59		3.45 |	(40-140)	50
n-Dodecane (C12)	3.7	0.0033	2.0541	55		3.7 |	(40-140)	50
2-methylnaphthalene (C12.89)	3.7	0.0063	2.1360	58		3.51 |	(40-140)	50
n-Tetradecane (C14)	3.7	0.0107	2.2108	59		3.45 |	(40-140)	50
n-Hexadecane (C16)	3.7	0.0057	2.2250	60		3.39 |	(40-140)	50
n-Octadecane (C18)	3.7	0.0055	2.2091	60		3.39 |	(40-140)	50
n-Eicosane (C20)	3.7	0.0064	2.3083	62		1.63 |	(40-140)	50
n-Heneicosane (C21)	3.7	0.0100	2.3318	63		3.23 |	(40-140)	50
n-Docosane (C22)	3.7	0.0113	2.3080	62		1.63 |	(40-140)	50
n-Tetracosane (C24)	7.3	0.0422	4.5284	61		39.47 |	(40-140)	50
n-Hexacosane (C26)	3.7	0.0165	2.2292	60		1.68 |	(40-140)	50
n-Octacosane (C28)	3.7	0.0471	2.2840	60		1.68 |	(40-140)	50
n-Tricontane (C30)	3.7	0.0712	2.1840	57		1.77 |	(40-140)	50
n-Dotriacontane (C32)	3.7	0.1018	2.2614	58		1.74 |	(40-140)	50
n-Tetratriacontane (C34)	3.7	0.1178	2.5171	65		3.13 |	(40-140)	50
n-Hexatriacontane (C36)	3.7	0.2506	2.9192	72		1.4 |	(40-140)	50
n-Octatriacontane (C38)	3.7	0.2830	3.1679	78		1.29 |	(40-140)	50
n-Tetracontane (C40)	3.7	0.2191	3.2195	81		2.5 |	(40-140)	50

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

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** HDR, Inc.

Lab Code: ACE **SDG No:** Q3466

Sample No : PB170266BS **Datafile:** FC070061.D **Client ID :** PB170266BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	30.0	28.0	93		(40-140)
Aliphatic C9-C28	99.9	68.7	69		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	2.25552	68		(40-140)
n-Decane (C10)	3.3	2.34385	71		(40-140)
Naphthalene (C11.7)	3.3	2.53598	77		(40-140)
n-Dodecane (C12)	3.3	2.44856	74		(40-140)
2-methylnaphthalene (C12.89)	3.3	2.47994	75		(40-140)
n-Tetradecane (C14)	3.3	2.55049	77		(40-140)
n-Hexadecane (C16)	3.3	2.54647	77		(40-140)
n-Octadecane (C18)	3.3	2.53084	77		(40-140)
n-Eicosane (C20)	3.3	2.69875	82		(40-140)
n-Heneicosane (C21)	3.3	2.66821	81		(40-140)
n-Docosane (C22)	3.3	2.63257	80		(40-140)
n-Tetracosane (C24)	6.7	5.01553	75		(40-140)
n-Hexacosane (C26)	3.3	2.56319	78		(40-140)
n-Octacosane (C28)	3.3	2.54539	77		(40-140)
n-Tricontane (C30)	3.3	2.55395	77		(40-140)
n-Dotriacontane (C32)	3.3	2.63521	80		(40-140)
n-Tetratriacontane (C34)	3.3	3.02789	92		(40-140)
n-Hexatriacontane (C36)	3.3	3.34275	101		(40-140)
n-Octatriacontane (C38)	3.3	3.82757	116		(40-140)
n-Tetracontane (C40)	3.3	3.97533	120		(40-140)

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

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** HDR, Inc.

Lab Code: ACE **SDG No:** Q3466

Sample No : PB170266BSD **Datafile:** FC070062.D **Client ID :** PB170266BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aliphatic C28-C40	30.0	28.8	96		2.8|	(40-140)	25
Aliphatic C9-C28	99.9	70.8	71		3|	(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	2.32995	71		4.32|	(40-140)	25
n-Decane (C10)	3.3	2.42819	74		4.14|	(40-140)	25
Naphthalene (C11.7)	3.3	2.61804	79		2.56|	(40-140)	25
n-Dodecane (C12)	3.3	2.54076	77		3.97|	(40-140)	25
2-methylnaphthalene (C12.89)	3.3	2.55783	78		3.92|	(40-140)	25
n-Tetradecane (C14)	3.3	2.65714	81		5.06|	(40-140)	25
n-Hexadecane (C16)	3.3	2.65385	80		3.82|	(40-140)	25
n-Octadecane (C18)	3.3	2.63803	80		3.82|	(40-140)	25
n-Eicosane (C20)	3.3	2.81023	85		3.59|	(40-140)	25
n-Heneicosane (C21)	3.3	2.77478	84		3.64|	(40-140)	25
n-Docosane (C22)	3.3	2.73499	83		3.68|	(40-140)	25
n-Tetracosane (C24)	6.7	5.15029	77		2.63|	(40-140)	25
n-Hexacosane (C26)	3.3	2.64638	80		2.53|	(40-140)	25
n-Octacosane (C28)	3.3	2.62971	80		3.82|	(40-140)	25
n-Tricontane (C30)	3.3	2.64328	80		3.82|	(40-140)	25
n-Dotriacontane (C32)	3.3	2.73376	83		3.68|	(40-140)	25
n-Tetratriacontane (C34)	3.3	3.14251	95		3.21|	(40-140)	25
n-Hexatriacontane (C36)	3.3	3.45412	105		3.88|	(40-140)	25
n-Octatriacontane (C38)	3.3	3.91055	119		2.55|	(40-140)	25
n-Tetracontane (C40)	3.3	4.04431	123		2.47|	(40-140)	25

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

4B

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB170266BL

Lab Name: Alliance Contract: HDRI08

Lab Code: ACE SDG NO.: Q3466

Instrument ID: FID_C Lab Sample ID: PB170266BL

Matrix: (soil/water) Solid Date Extracted: 10/28/2025 9:05:00

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB170266BS	PB170266BS
PB170266BSD	PB170266BSD
B8-0.0-1.0-20251023	Q3466-02
TP-13MS	Q3469-01MS
TP-13MSD	Q3469-01MSD

COMMENTS:

SAMPLE DATA

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	10/23/25
Project:	PVWC Linear Construction			Date Received:	10/24/25
Client Sample ID:	B8-0.0-1.0-20251023			SDG No.:	Q3466
Lab Sample ID:	Q3466-02			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.3
Sample Wt/Vol:	30.05 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date :	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	28.4		1	1.38	2.34	mg/kg	FE056540.D	10/28/25 15:24	PB170266
Aliphatic C9-C28	Aliphatic C9-C28	6.97		1	1.06	4.68	mg/kg	FE056540.D	10/28/25 15:24	PB170266
Total AliphaticEPH	Total AliphaticEPH	35.4			2.44	7.02	mg/kg			
Total EPH	Total EPH	35.4			2.44	7.02	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

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	10/23/25
Project:	PVWC Linear Construction			Date Received:	10/24/25
Client Sample ID:	B8-0.0-1.0-20251023			SDG No.:	Q3466
Lab Sample ID:	Q3466-02			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.3
Sample Wt/Vol:	30.05 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	6.97		1	1.06	4.68	mg/kg	10/28/25	PB170266
Aliphatic C28-C40	Aliphatic C28-C40	28.4		1	1.38	2.34	mg/kg	10/28/25	PB170266
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	26.8			40 - 140	54%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	26.0			40 - 140	52%	SPK: 50		

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3466-02	Acq On:	28 Oct 2025 15:24
Client Sample ID:	B8-0.0-1.0-20251023	Operator:	YP\AJ
Data file:	FE056540.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.240	6.866	418631	2.536	300	ug/ml
Aliphatic C12-C16	6.867	10.314	1625526	9.531	200	ug/ml
Aliphatic C16-C21	10.315	13.690	8054238	45.087	300	ug/ml
Aliphatic C21-C28	13.691	17.361	5752880	32.123	400	ug/ml
Aliphatic C28-C40	17.362	22.315	50437749	363.377	600	ug/ml
Aliphatic EPH	3.240	22.315	66289024	452.654		ug/ml
ortho-Terphenyl (SURR)	11.986	11.986	5304696	25.97		ug/ml
1-chlorooctadecane (SURR)	13.426	13.426	4090797	26.81		ug/ml
Aliphatic C9-C28	3.240	17.361	15851275	89.277	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE102825AL\
Data File : FE056540.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 15:24
Operator : YP\AJ
Sample : Q3466-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
B8-0.0-1.0-20251023

Integration File: sample.E
Quant Time: Oct 29 04:12:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 28 14:34:40 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)	11.986	5304696	25.966 ug/ml
Spiked Amount 50.000		Recovery =	51.93%
12) S 1-chlorooctadecane (S...	13.426	4090797	26.811 ug/ml
Spiked Amount 50.000		Recovery =	53.62%
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

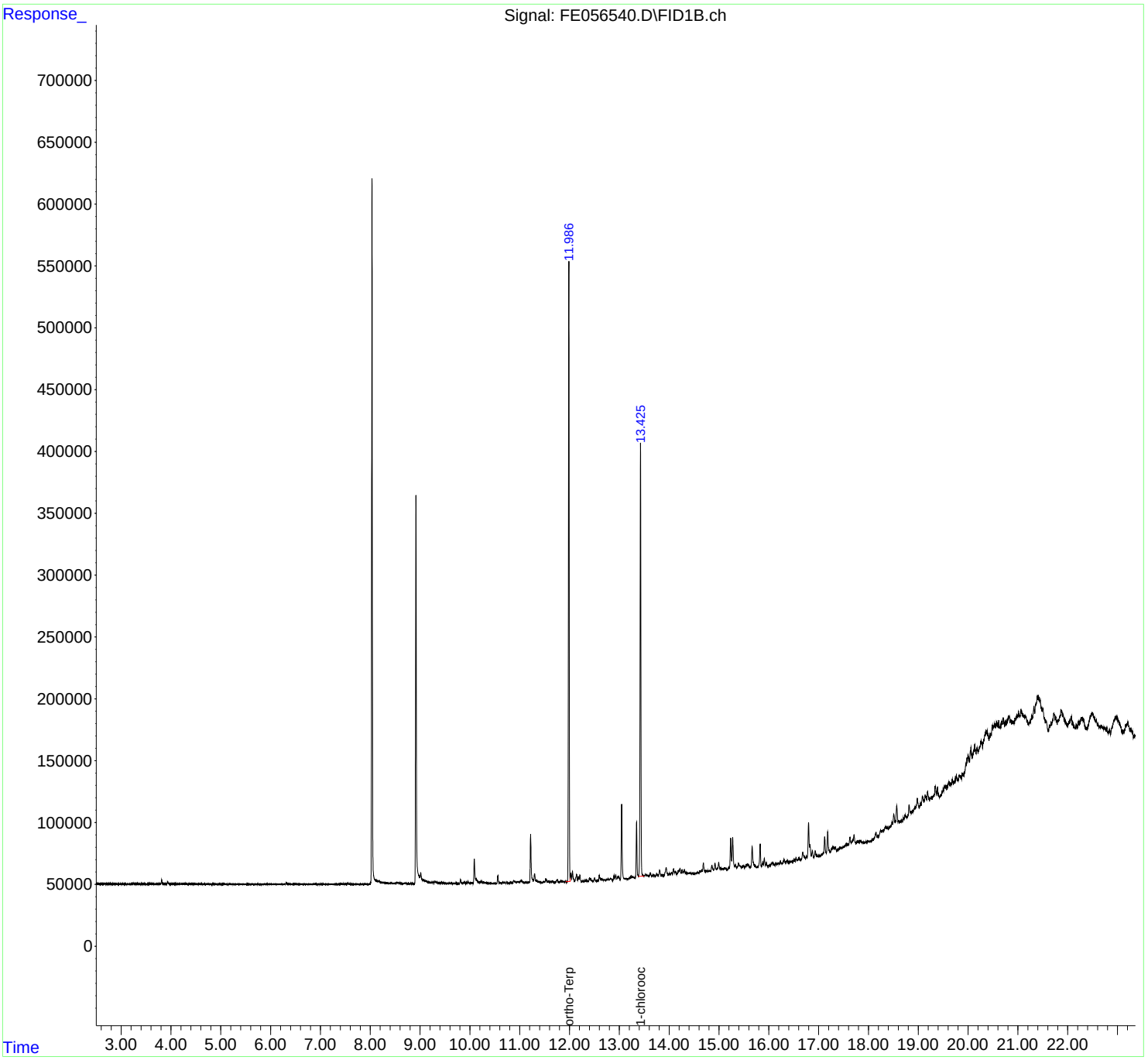
Quantitation Report (QT Reviewed)

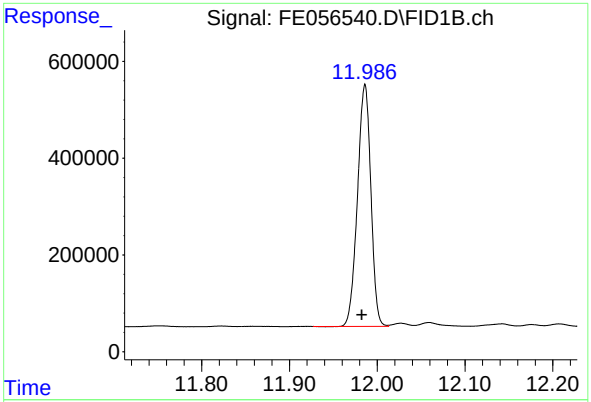
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE102825AL\
Data File : FE056540.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 15:24
Operator : YP\AJ
Sample : Q3466-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
B8-0.0-1.0-20251023

Integration File: sample.E
Quant Time: Oct 29 04:12:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 28 14:34:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

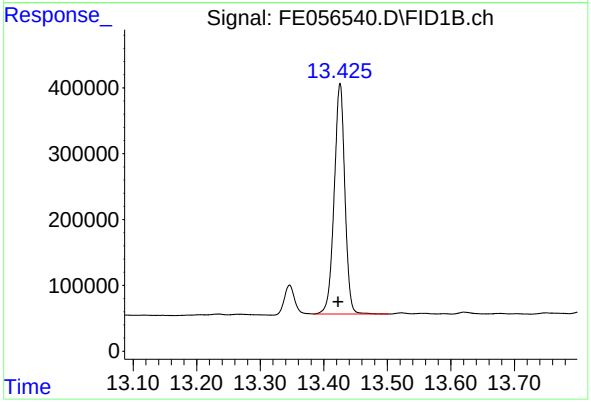




#9 ortho-Terphenyl (SURR)

R.T.: 11.986 min
Delta R.T.: 0.003 min
Response: 5304696
Conc: 25.97 ug/ml

Instrument :
FID_E
ClientSampleId :
B8-0.0-1.0-20251023



#12 1-chlorooctadecane (SURR)

R.T.: 13.426 min
Delta R.T.: 0.003 min
Response: 4090797
Conc: 26.81 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE102825AL\
Data File : FE056540.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 15:24
Sample : Q3466-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.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	2.878	2.804	2.924	BV	208	4609	0.06%	0.006%
2	2.960	2.924	3.001	PV	135	3390	0.04%	0.005%
3	3.012	3.001	3.061	PV	136	2842	0.04%	0.004%
4	3.102	3.061	3.124	VV	114	3714	0.05%	0.005%
5	3.127	3.124	3.194	VV	172	3895	0.05%	0.005%
6	3.215	3.194	3.229	VV	358	5108	0.06%	0.007%
7	3.259	3.229	3.291	VV	312	9969	0.13%	0.014%
8	3.301	3.291	3.321	VV	280	4433	0.06%	0.006%
9	3.333	3.321	3.384	VV	316	8962	0.11%	0.012%
10	3.399	3.384	3.443	VV	235	6580	0.08%	0.009%
11	3.454	3.443	3.471	VV	225	2860	0.04%	0.004%
12	3.484	3.471	3.506	VV	285	3980	0.05%	0.006%
13	3.522	3.506	3.594	VV	275	10400	0.13%	0.014%
14	3.654	3.594	3.692	VV	247	10410	0.13%	0.015%
15	3.698	3.692	3.714	VV	179	2038	0.03%	0.003%
16	3.727	3.714	3.745	VV	194	3194	0.04%	0.004%
17	3.758	3.745	3.766	VV	245	2438	0.03%	0.003%
18	3.781	3.766	3.792	VV	374	4923	0.06%	0.007%
19	3.814	3.792	3.904	VV	3730	50967	0.65%	0.071%
20	3.932	3.904	4.001	VV	2094	32723	0.41%	0.046%
21	4.017	4.001	4.079	VV	285	10237	0.13%	0.014%
22	4.089	4.079	4.117	VV	243	4512	0.06%	0.006%
23	4.164	4.117	4.238	VV	336	17018	0.22%	0.024%
24	4.279	4.238	4.329	VV	358	13719	0.17%	0.019%
25	4.364	4.329	4.375	VV	313	7619	0.10%	0.011%
26	4.382	4.375	4.394	VV	386	3629	0.05%	0.005%
27	4.417	4.394	4.448	VV	385	9912	0.13%	0.014%
28	4.462	4.448	4.467	VV	238	2541	0.03%	0.004%
29	4.476	4.467	4.531	VV	237	7493	0.10%	0.010%
30	4.591	4.531	4.617	VV	361	11951	0.15%	0.017%
31	4.629	4.617	4.664	VV	270	4614	0.06%	0.006%
32	4.669	4.664	4.678	VV	151	1116	0.01%	0.002%
33	4.680	4.678	4.694	VV	185	1088	0.01%	0.002%
34	4.713	4.694	4.730	VV	192	2581	0.03%	0.004%
35	4.761	4.730	4.808	VV	382	7902	0.10%	0.011%
36	4.815	4.808	4.852	VV	156	3361	0.04%	0.005%

rteres

37	4.868	4.852	4.888	VV	172	3255	0.04%	0.005%
38	4.896	4.888	4.909	VV	200	2065	0.03%	0.003%
39	4.917	4.909	4.951	VV	256	4145	0.05%	0.006%
40	4.974	4.951	5.063	VV	199	10861	0.14%	0.015%
41	5.076	5.063	5.132	VV	220	5285	0.07%	0.007%
42	5.159	5.132	5.187	VV	149	3018	0.04%	0.004%
43	5.197	5.187	5.212	VV	157	1545	0.02%	0.002%
44	5.220	5.212	5.238	VV	145	1594	0.02%	0.002%
45	5.250	5.238	5.309	VV	205	4993	0.06%	0.007%
46	5.318	5.309	5.358	VV	122	2166	0.03%	0.003%
47	5.388	5.358	5.464	VV	122	5146	0.07%	0.007%
48	5.470	5.464	5.485	VV	77	875	0.01%	0.001%
49	5.505	5.485	5.528	VV	99	1550	0.02%	0.002%
50	5.549	5.528	5.604	PV	267	5833	0.07%	0.008%
51	5.638	5.604	5.671	VV	142	3491	0.04%	0.005%
52	5.681	5.671	5.713	VV	103	1860	0.02%	0.003%
53	5.730	5.713	5.767	VV	232	3935	0.05%	0.005%
54	5.774	5.767	5.794	VV	175	1650	0.02%	0.002%
55	5.805	5.794	5.817	VV	74	625	0.01%	0.001%
56	5.865	5.817	5.875	VV	191	4638	0.06%	0.006%
57	5.882	5.875	5.887	VV	148	1157	0.01%	0.002%
58	5.901	5.887	5.915	VV	212	3271	0.04%	0.005%
59	5.924	5.915	6.019	VV	263	8673	0.11%	0.012%
60	6.034	6.019	6.075	VV	227	4040	0.05%	0.006%
61	6.088	6.075	6.110	VV	123	1722	0.02%	0.002%
62	6.121	6.110	6.138	VV	131	1208	0.02%	0.002%
63	6.143	6.138	6.160	VV	91	886	0.01%	0.001%
64	6.179	6.160	6.186	PV	101	895	0.01%	0.001%
65	6.199	6.186	6.279	VV	146	6140	0.08%	0.009%
66	6.314	6.279	6.368	VV	1152	21597	0.27%	0.030%
67	6.381	6.368	6.392	VV	188	2132	0.03%	0.003%
68	6.411	6.392	6.451	VV	184	4399	0.06%	0.006%
69	6.476	6.451	6.521	VV	351	7144	0.09%	0.010%
70	6.557	6.521	6.592	VV	217	5073	0.06%	0.007%
71	6.613	6.592	6.644	VV	274	5769	0.07%	0.008%
72	6.657	6.644	6.698	VV	248	4939	0.06%	0.007%
73	6.707	6.698	6.747	VV	112	2344	0.03%	0.003%
74	6.764	6.747	6.814	VV	240	3670	0.05%	0.005%
75	6.831	6.814	6.857	VV	124	1872	0.02%	0.003%
76	6.874	6.857	6.891	VV	113	1465	0.02%	0.002%
77	6.895	6.891	6.961	VV	130	3289	0.04%	0.005%
78	6.964	6.961	7.000	VV	123	1003	0.01%	0.001%
79	7.021	7.000	7.032	VV	277	2748	0.03%	0.004%
80	7.056	7.032	7.170	VV	304	11246	0.14%	0.016%
81	7.178	7.170	7.189	VV	135	790	0.01%	0.001%
82	7.196	7.189	7.207	VV	48	316	0.00%	0.000%
83	7.216	7.207	7.236	VV	81	815	0.01%	0.001%
84	7.246	7.236	7.270	VV	105	1354	0.02%	0.002%
85	7.282	7.270	7.334	PV	106	4700	0.06%	0.007%
86	7.345	7.334	7.382	VV	203	3242	0.04%	0.005%
87	7.415	7.382	7.444	VV	596	10704	0.14%	0.015%
88	7.464	7.444	7.521	VV	349	12036	0.15%	0.017%
89	7.549	7.521	7.644	VV	859	19490	0.25%	0.027%

rteres

90	7.659	7.644	7.688	VV	148	2811	0.04%	0.004%
91	7.716	7.688	7.771	VV	148	5612	0.07%	0.008%
92	7.790	7.771	7.841	VV	95	2576	0.03%	0.004%
93	7.903	7.841	7.968	PV	132	3899	0.05%	0.005%
94	8.174	8.161	8.296	VV	2739	122982	1.56%	0.171%
95	8.312	8.296	8.393	VV	1060	51090	0.65%	0.071%
96	8.422	8.393	8.467	VV	936	33033	0.42%	0.046%
97	8.530	8.467	8.584	VV	1448	55976	0.71%	0.078%
98	8.601	8.584	8.661	VV	902	26827	0.34%	0.037%
99	8.715	8.661	8.788	VV	788	38156	0.48%	0.053%
100	8.806	8.788	8.884	VV	544	14939	0.19%	0.021%
101	9.013	8.992	9.238	VV	9251	413667	5.25%	0.577%
102	9.257	9.238	9.275	VV	1512	27757	0.35%	0.039%
103	9.297	9.275	9.411	VV	2133	87067	1.10%	0.121%
104	9.430	9.411	9.452	VV	1357	21305	0.27%	0.030%
105	9.470	9.452	9.550	VV	820	26207	0.33%	0.037%
106	9.586	9.550	9.647	VV	700	22414	0.28%	0.031%
107	9.723	9.647	9.778	VV	638	20021	0.25%	0.028%
108	9.813	9.778	9.863	VV	2772	50514	0.64%	0.070%
109	9.888	9.863	9.914	VV	1013	18523	0.23%	0.026%
110	9.960	9.914	10.000	VV	1555	36376	0.46%	0.051%
111	10.021	10.000	10.061	VV	824	20144	0.26%	0.028%
112	10.090	10.061	10.198	VV	19418	358854	4.55%	0.500%
113	10.235	10.198	10.364	VV	2022	91578	1.16%	0.128%
114	10.396	10.364	10.531	VV	350	16877	0.21%	0.024%
115	10.562	10.531	10.631	PV	6206	88307	1.12%	0.123%
116	10.698	10.631	10.724	VV	899	32118	0.41%	0.045%
117	10.739	10.724	10.778	VV	714	11860	0.15%	0.017%
118	10.813	10.778	10.854	VV	845	21871	0.28%	0.030%
119	10.882	10.854	10.934	VV	2293	53525	0.68%	0.075%
120	11.024	10.934	11.100	VV	2047	105970	1.34%	0.148%
121	11.119	11.100	11.167	VV	896	20882	0.26%	0.029%
122	11.220	11.167	11.274	VV	38488	536247	6.80%	0.748%
123	11.299	11.274	11.452	VV	7611	189136	2.40%	0.264%
124	11.527	11.452	11.578	VV	2922	81566	1.03%	0.114%
125	11.590	11.578	11.611	VV	986	14708	0.19%	0.021%
126	11.660	11.611	11.690	VV	1526	30274	0.38%	0.042%
127	11.751	11.690	11.787	PV	2132	46181	0.59%	0.064%
128	11.822	11.787	11.842	VV	1689	26216	0.33%	0.037%
129	11.860	11.842	11.895	VV	944	22258	0.28%	0.031%
130	11.919	11.895	11.941	VV	741	13598	0.17%	0.019%
131	11.986	11.941	12.042	VV	495430	5419117	68.72%	7.555%
132	12.059	12.042	12.108	VV	8676	147130	1.87%	0.205%
133	12.140	12.108	12.161	VV	5810	105149	1.33%	0.147%
134	12.207	12.161	12.251	VV	5659	134411	1.70%	0.187%
135	12.330	12.251	12.378	VV	888	40856	0.52%	0.057%
136	12.403	12.378	12.473	VV	2856	71669	0.91%	0.100%
137	12.501	12.473	12.544	PV	2693	45518	0.58%	0.063%
138	12.598	12.544	12.680	VV	4657	121001	1.53%	0.169%
139	12.698	12.680	12.721	VV	917	16749	0.21%	0.023%
140	12.752	12.721	12.801	VV	1076	36837	0.47%	0.051%
141	12.821	12.801	12.863	VV	1931	35718	0.45%	0.050%

rteres

142	12.893	12.863	12.911	PV	3567	52326	0.66%	0.073%
143	12.928	12.911	12.948	VV	4062	53812	0.68%	0.075%
144	12.973	12.948	13.018	VV	2615	69031	0.88%	0.096%
145	13.047	13.018	13.168	VV	61196	776664	9.85%	1.083%
146	13.233	13.168	13.250	VV	2069	48152	0.61%	0.067%
147	13.268	13.250	13.318	VV	1635	40295	0.51%	0.056%
148	13.346	13.318	13.384	VV	45543	539937	6.85%	0.753%
149	13.425	13.384	13.501	VV	350709	4194214	53.19%	5.847%
150	13.522	13.501	13.601	VV	2985	105121	1.33%	0.147%
151	13.622	13.601	13.658	VV	3568	66932	0.85%	0.093%
152	13.677	13.658	13.724	VV	1621	41122	0.52%	0.057%
153	13.751	13.724	13.788	VV	2161	53103	0.67%	0.074%
154	13.810	13.788	13.891	VV	4975	111306	1.41%	0.155%
155	13.940	13.891	13.981	VV	6752	162228	2.06%	0.226%
156	14.003	13.981	14.023	VV	2005	36182	0.46%	0.050%
157	14.089	14.023	14.151	VV	5416	185034	2.35%	0.258%
158	14.216	14.151	14.240	VV	5250	159240	2.02%	0.222%
159	14.261	14.240	14.284	VV	4045	68929	0.87%	0.096%
160	14.304	14.284	14.368	VV	4113	93468	1.19%	0.130%
161	14.385	14.368	14.493	VV	1150	50330	0.64%	0.070%
162	14.530	14.493	14.551	PV	558	9175	0.12%	0.013%
163	14.574	14.551	14.594	VV	961	14311	0.18%	0.020%
164	14.687	14.594	14.723	VV	7912	194038	2.46%	0.271%
165	14.743	14.723	14.763	VV	1914	32172	0.41%	0.045%
166	14.781	14.763	14.797	VV	1437	23006	0.29%	0.032%
167	14.858	14.797	14.893	VV	5366	130148	1.65%	0.181%
168	14.920	14.893	14.948	VV	6732	122212	1.55%	0.170%
169	14.995	14.948	15.064	VV	7091	209704	2.66%	0.292%
170	15.116	15.064	15.164	VV	2121	91751	1.16%	0.128%
171	15.234	15.164	15.254	VV	25477	392863	4.98%	0.548%
172	15.275	15.254	15.358	VV	26261	505049	6.40%	0.704%
173	15.395	15.358	15.448	VV	4597	146097	1.85%	0.204%
174	15.493	15.448	15.517	VV	2342	73019	0.93%	0.102%
175	15.549	15.517	15.564	VV	3321	63836	0.81%	0.089%
176	15.580	15.564	15.631	VV	3065	79561	1.01%	0.111%
177	15.666	15.631	15.758	VV	17015	336651	4.27%	0.469%
178	15.826	15.758	15.854	VV	18311	262698	3.33%	0.366%
179	15.910	15.854	15.933	VV	6892	142520	1.81%	0.199%
180	15.949	15.933	15.984	VV	2987	45289	0.57%	0.063%
181	16.073	15.984	16.124	PV	2087	77791	0.99%	0.108%
182	16.147	16.124	16.167	VV	1094	18135	0.23%	0.025%
183	16.235	16.167	16.261	VV	1716	47854	0.61%	0.067%
184	16.307	16.261	16.338	VV	3340	62717	0.80%	0.087%
185	16.369	16.338	16.424	VV	1595	37507	0.48%	0.052%
186	16.511	16.424	16.527	PV	1286	20137	0.26%	0.028%
187	16.548	16.527	16.570	VV	1639	22592	0.29%	0.031%
188	16.605	16.570	16.641	VV	1521	37097	0.47%	0.052%
189	16.683	16.641	16.733	VV	6218	135274	1.72%	0.189%
190	16.799	16.733	16.854	VV	29021	577921	7.33%	0.806%
191	16.875	16.854	16.904	VV	5808	85033	1.08%	0.119%
192	16.933	16.904	16.984	VV	5073	87725	1.11%	0.122%
193	17.005	16.984	17.038	VV	557	10708	0.14%	0.015%
194	17.122	17.038	17.152	PV	14640	245514	3.11%	0.342%

rteres

195	17.183	17.152	17.233	VV	17860	283655	3.60%	0.395%
196	17.306	17.233	17.374	VV	4141	209300	2.65%	0.292%
197	17.432	17.374	17.468	VV	2394	74658	0.95%	0.104%
198	17.551	17.468	17.588	VV	3124	156947	1.99%	0.219%
199	17.628	17.588	17.654	VV	7347	170019	2.16%	0.237%
200	17.711	17.654	17.751	VV	8895	266666	3.38%	0.372%
201	17.799	17.751	17.817	VV	2867	92541	1.17%	0.129%
202	17.840	17.817	17.874	VV	2651	64762	0.82%	0.090%
203	17.890	17.874	17.918	VV	705	14596	0.19%	0.020%
204	18.150	17.918	18.174	PV	3775	-25637	-0.33%	-0.036%
205	18.246	18.174	18.274	PV	3244	73685	0.93%	0.103%
206	18.338	18.274	18.400	VV	3723	204776	2.60%	0.285%
207	18.510	18.400	18.538	VV	10789	365462	4.63%	0.509%
208	18.568	18.538	18.624	VV	16673	368856	4.68%	0.514%
209	18.736	18.624	18.770	VV	5922	287787	3.65%	0.401%
210	18.816	18.770	18.858	VV	12365	333512	4.23%	0.465%
211	18.981	18.858	19.015	VV	14251	715274	9.07%	0.997%
212	19.086	19.015	19.116	VV	13355	558570	7.08%	0.779%
213	19.142	19.116	19.163	VV	12933	313140	3.97%	0.437%
214	19.187	19.163	19.228	VV	15461	434753	5.51%	0.606%
215	19.259	19.228	19.275	VV	9643	244209	3.10%	0.340%
216	19.341	19.275	19.366	VV	16168	597566	7.58%	0.833%
217	19.385	19.366	19.424	VV	14839	356860	4.53%	0.497%
218	19.558	19.424	19.578	VV	12638	887793	11.26%	1.238%
219	19.617	19.578	19.671	VV	14438	678552	8.61%	0.946%
220	19.684	19.671	19.708	VV	13896	284516	3.61%	0.397%
221	19.765	19.708	19.798	VV	15729	711855	9.03%	0.992%
222	19.832	19.798	19.868	VV	15196	571608	7.25%	0.797%
223	19.885	19.868	19.918	VV	15535	424806	5.39%	0.592%
224	20.001	19.918	20.031	VV	27160	1477749	18.74%	2.060%
225	20.056	20.031	20.081	VV	33386	841182	10.67%	1.173%
226	20.133	20.081	20.160	VV	34189	1348015	17.10%	1.879%
227	20.180	20.160	20.201	VV	29390	694222	8.80%	0.968%
228	20.260	20.201	20.292	VV	34478	1653451	20.97%	2.305%
229	20.360	20.292	20.421	VV	40343	2774678	35.19%	3.868%
230	20.574	20.421	20.644	VV	42050	5218277	66.18%	7.275%
231	20.705	20.644	20.733	VV	43424	2114910	26.82%	2.948%
232	20.822	20.733	20.923	VV	42700	4350929	55.18%	6.066%
233	21.013	20.923	21.038	VV	41295	2665593	33.80%	3.716%
234	21.063	21.038	21.218	VV	42890	3850490	48.83%	5.368%
235	21.411	21.218	21.614	VV	47165	7885314	100.00%	10.993%
236	21.723	21.614	21.786	VV	25801	2057571	26.09%	2.868%
237	21.869	21.786	21.998	VV	25649	2349794	29.80%	3.276%
238	22.070	21.998	22.154	VV	14099	1016082	12.89%	1.417%
239	22.175	22.154	22.193	VV	6983	140650	1.78%	0.196%
240	22.274	22.193	22.368	VV	11640	770710	9.77%	1.074%

Sum of corrected areas: 71731698

CALIBRATION SUMMARY

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

Inital 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	

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

Inital 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	

Quantitation Report (QT Reviewed)

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

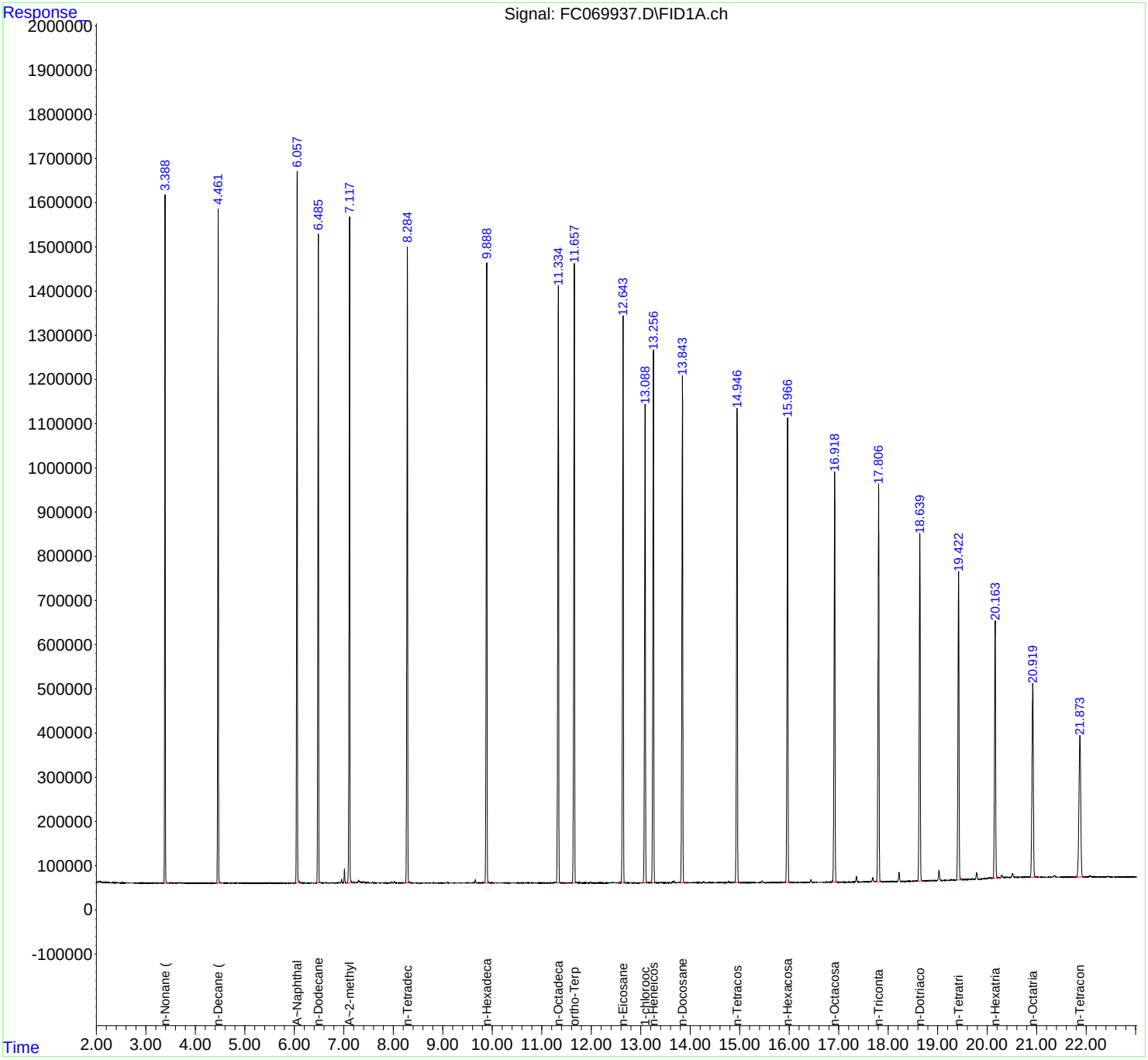
(f)=RT Delta > 1/2 Window (m)=manual int.

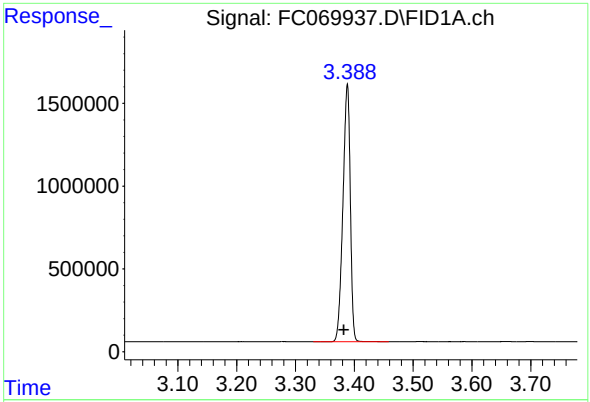
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069937.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 16:17
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

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

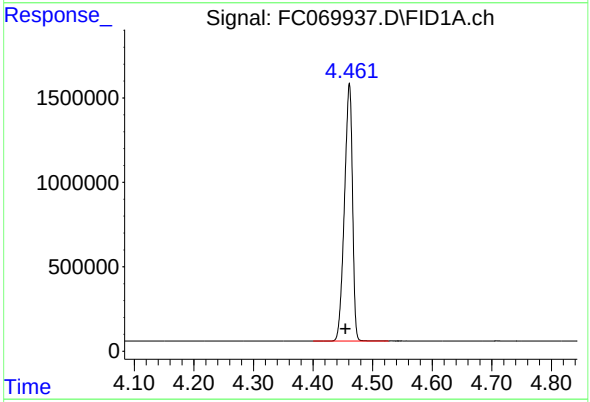




#1 n-Nonane (C9)

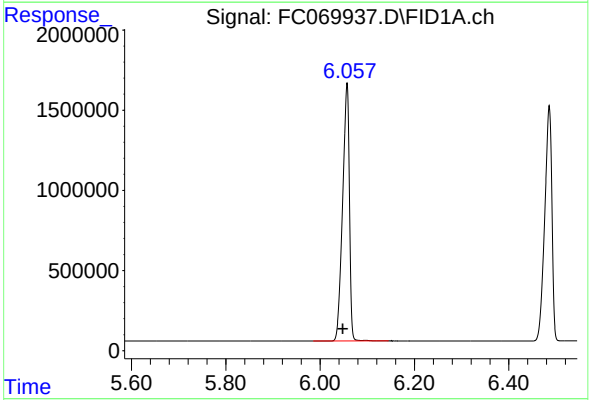
R.T.: 3.388 min
Delta R.T.: 0.006 min
Response: 13511792
Conc: 104.49 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



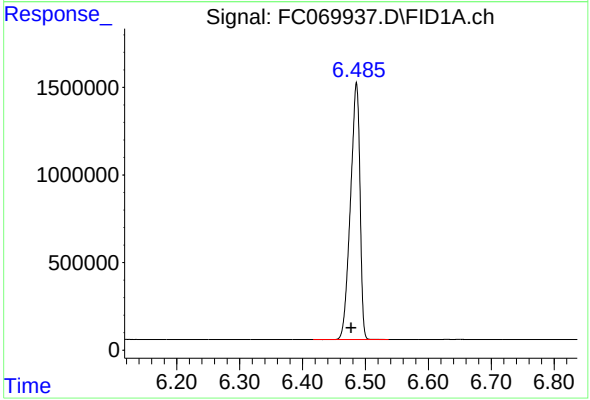
#2 n-Decane (C10)

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



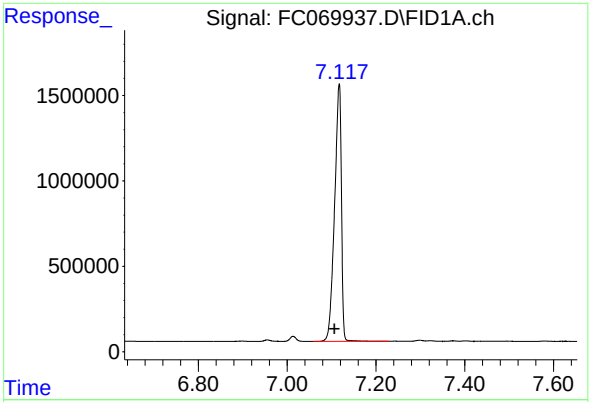
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

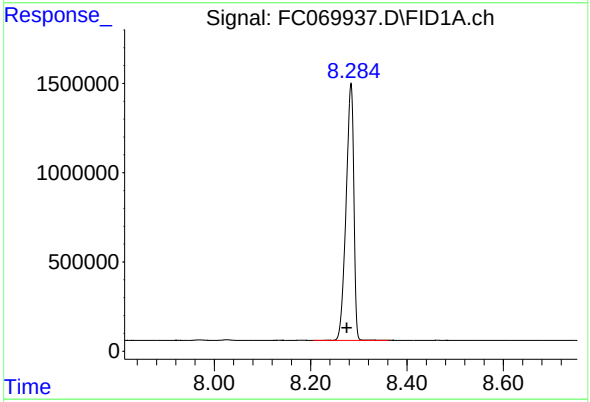
R.T.: 6.485 min
Delta R.T.: 0.008 min
Response: 15390045
Conc: 107.24 ug/ml



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

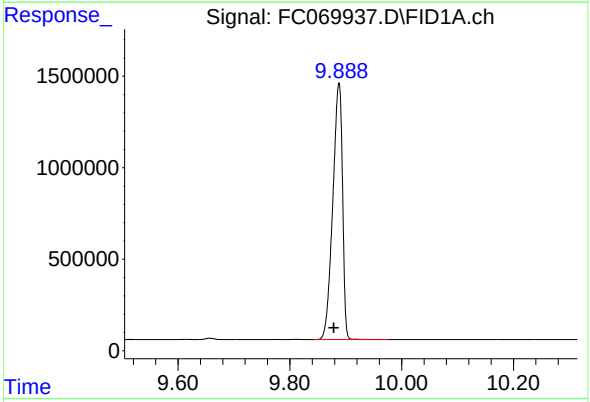
R.T.: 7.116 min
Delta R.T.: 0.010 min
Response: 16083838
Conc: 107.58 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



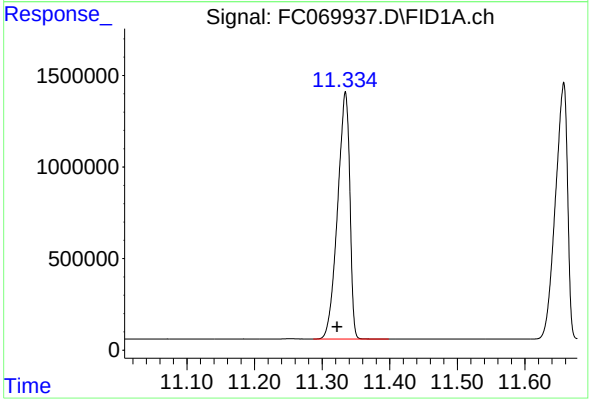
#6 n-Tetradecane (C14)

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



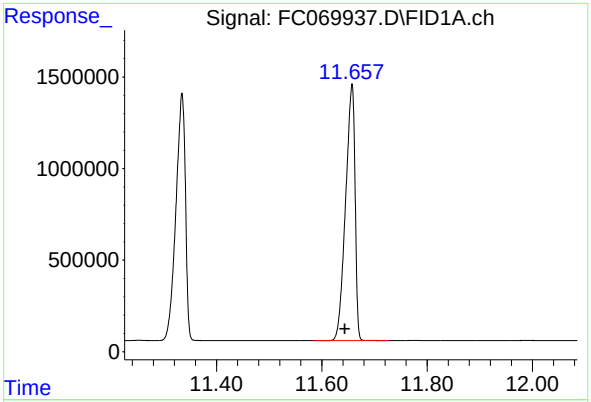
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

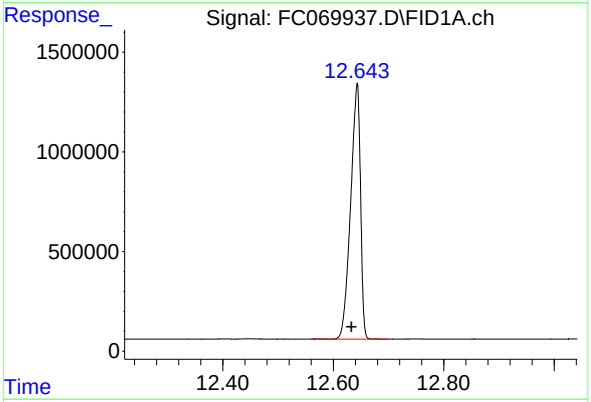
R.T.: 11.334 min
Delta R.T.: 0.012 min
Response: 16924222
Conc: 107.11 ug/ml



#9 ortho-Terphenyl (SURR)

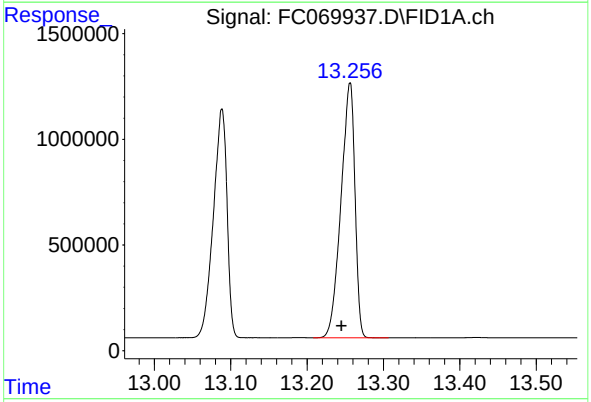
R.T.: 11.657 min
Delta R.T.: 0.013 min
Response: 17428523
Conc: 107.79 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



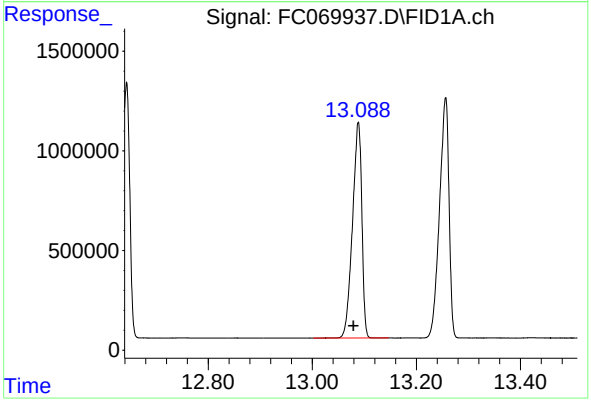
#10 n-Eicosane (C20)

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



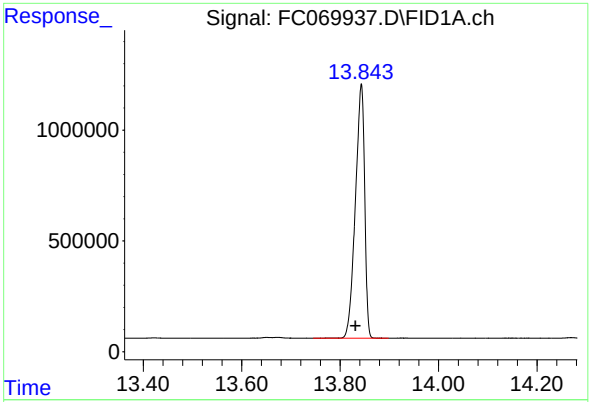
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

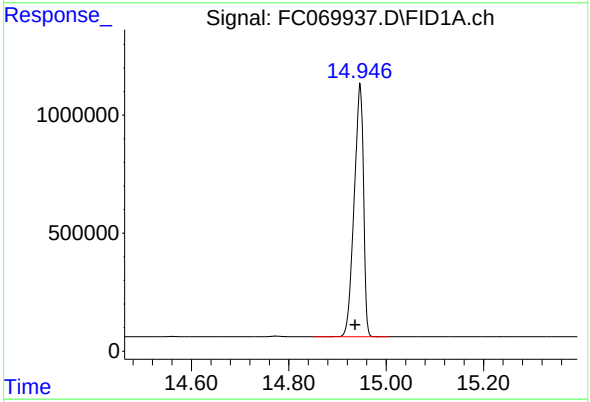
R.T.: 13.088 min
Delta R.T.: 0.009 min
Response: 13491128
Conc: 107.92 ug/ml



#13 n-Docosane (C22)

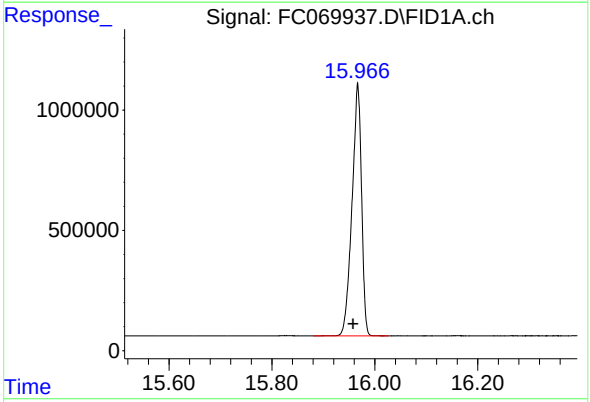
R.T.: 13.843 min
Delta R.T.: 0.012 min
Response: 14972967
Conc: 107.36 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



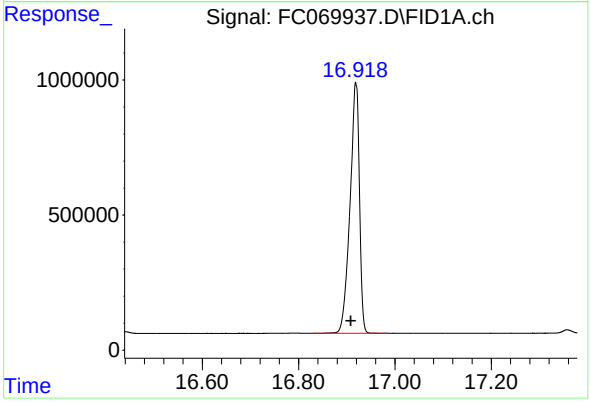
#14 n-Tetracosane (C24)

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



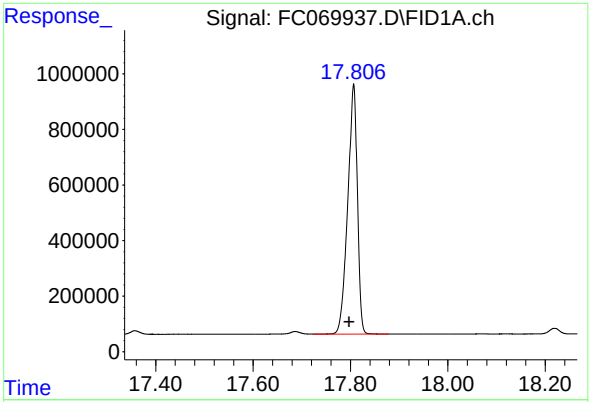
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

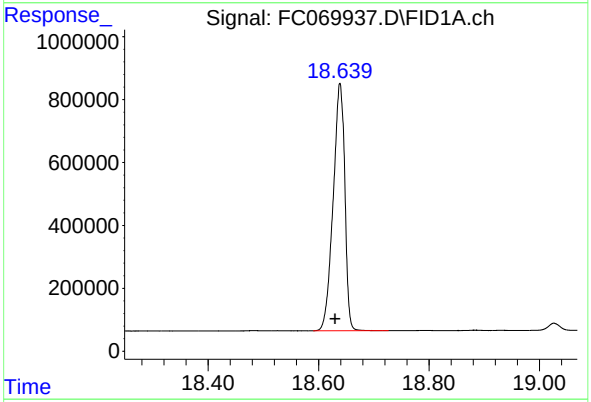
R.T.: 16.919 min
Delta R.T.: 0.011 min
Response: 12644771
Conc: 107.10 ug/ml



#17 n-Tricontane (C30)

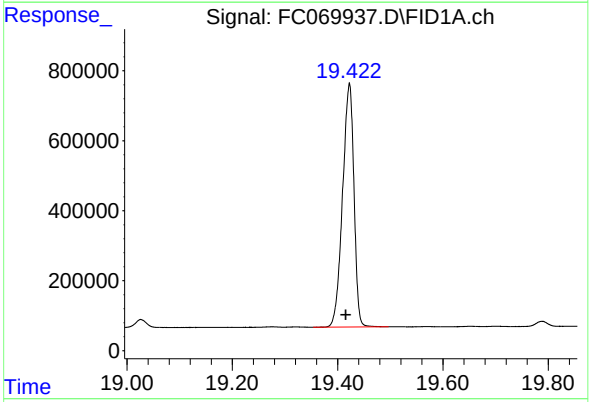
R.T.: 17.806 min
Delta R.T.: 0.009 min
Response: 12335576
Conc: 107.08 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



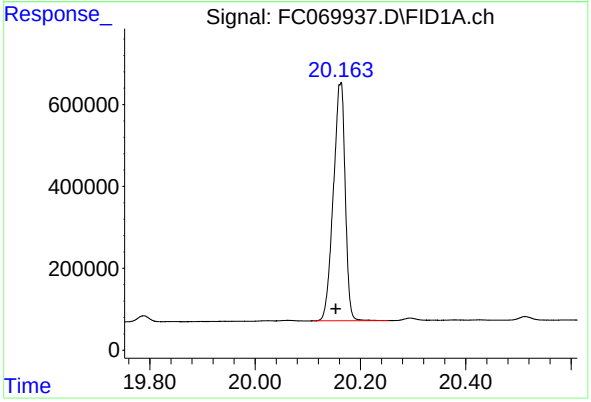
#18 n-Dotriacontane (C32)

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



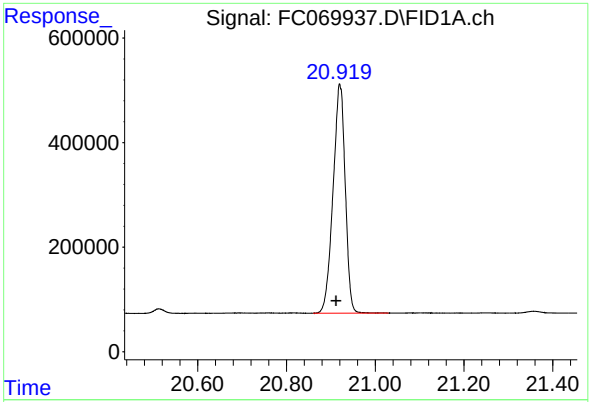
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

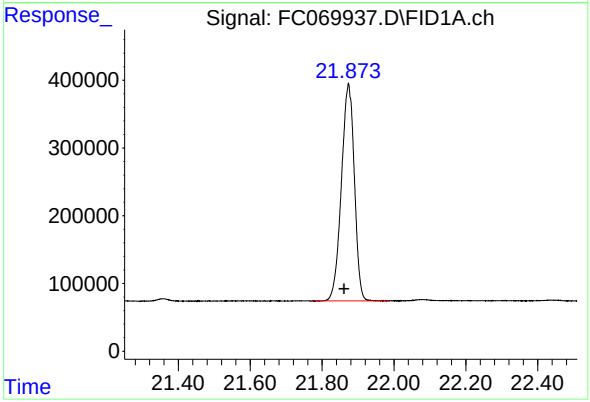
R.T.: 20.162 min
Delta R.T.: 0.008 min
Response: 9085745
Conc: 105.94 ug/ml



#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

Quantitation Report (QT Reviewed)

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.

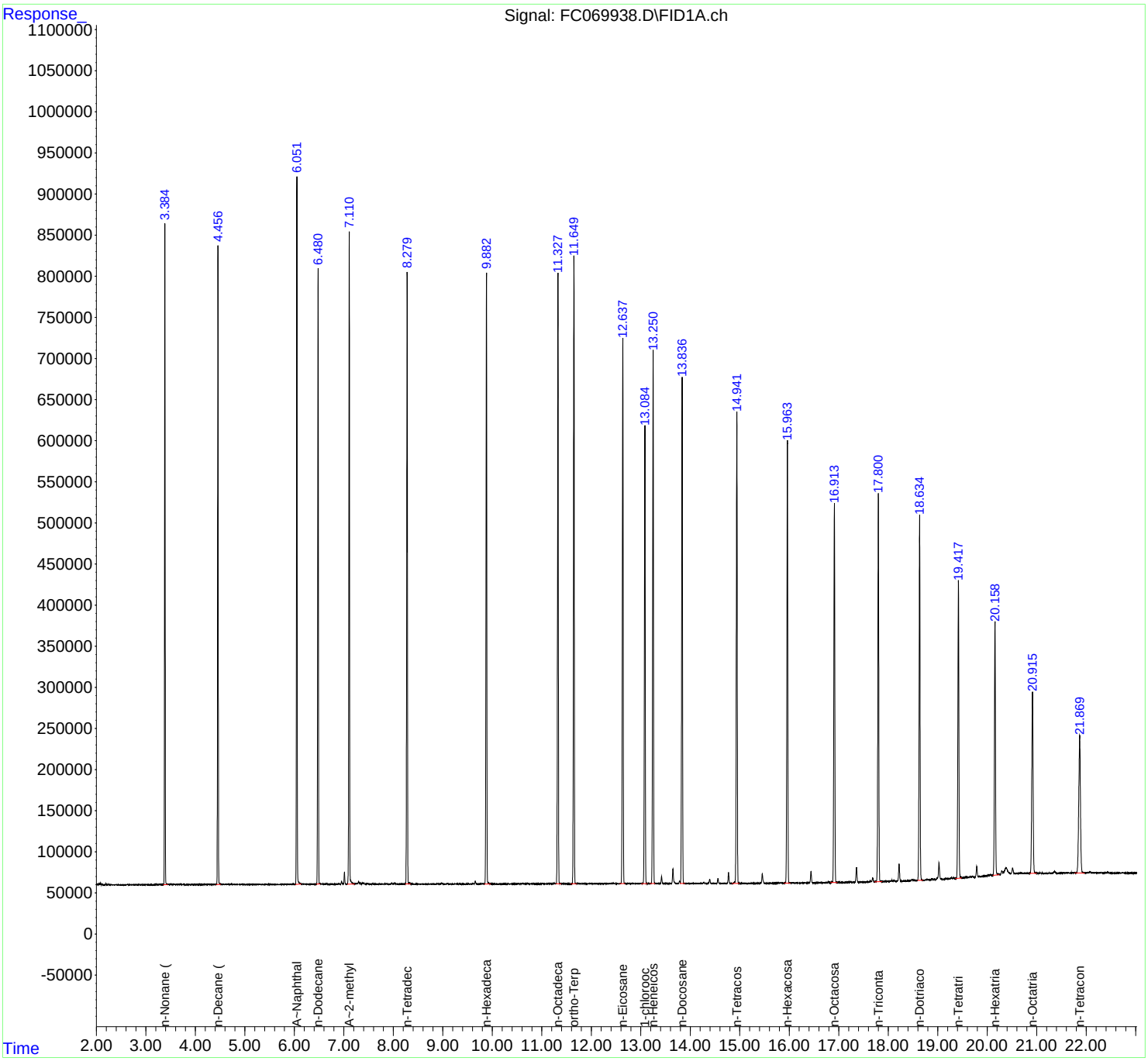
Quantitation Report (QT Reviewed)

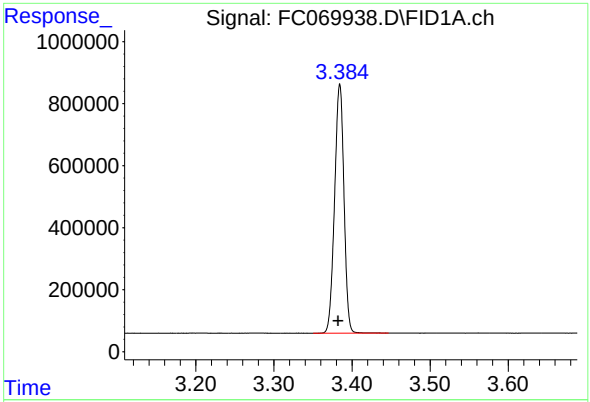
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069938.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 17:03
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

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

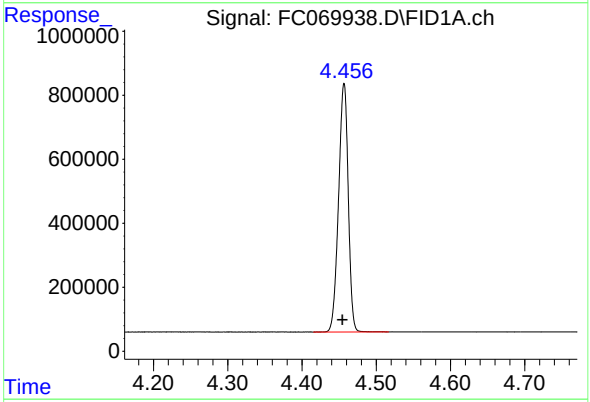




#1 n-Nonane (C9)

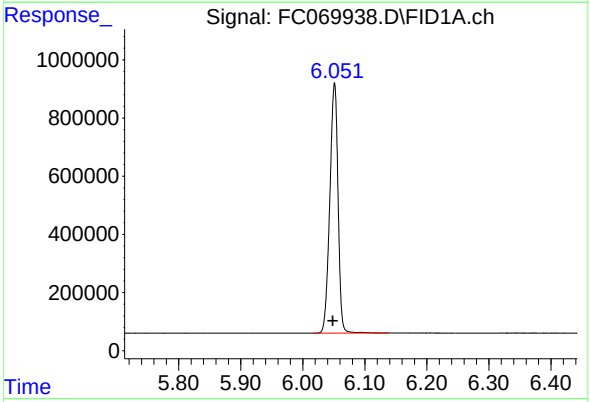
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 6696096
Conc: 51.78 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



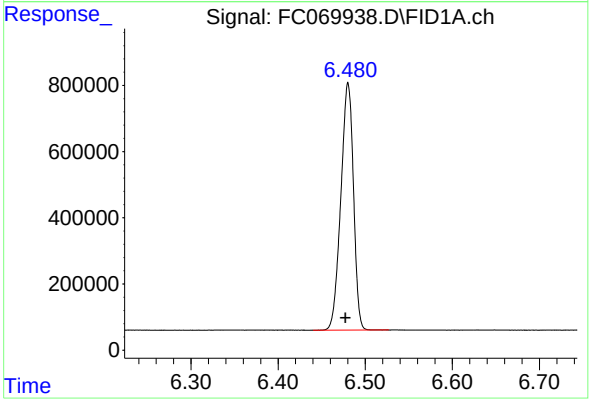
#2 n-Decane (C10)

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



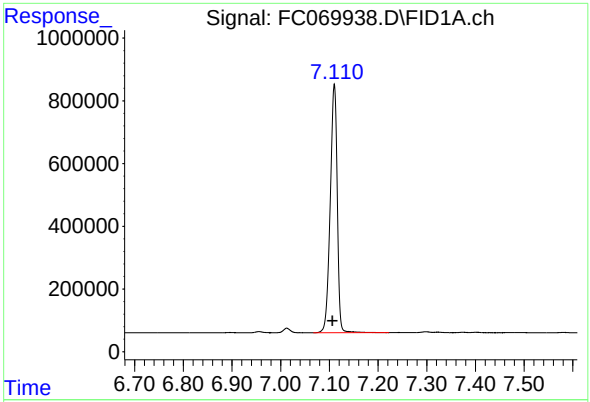
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

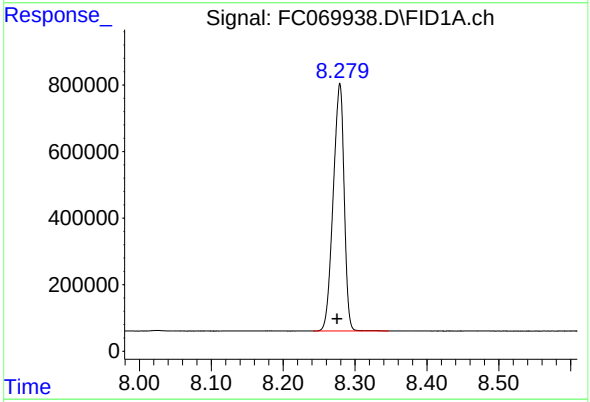
R.T.: 6.480 min
Delta R.T.: 0.003 min
Response: 7521297
Conc: 52.41 ug/ml



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

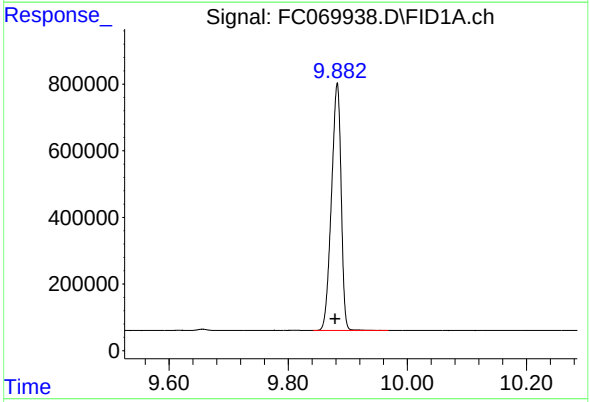
R.T.: 7.110 min
Delta R.T.: 0.004 min
Response: 7871197
Conc: 52.65 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



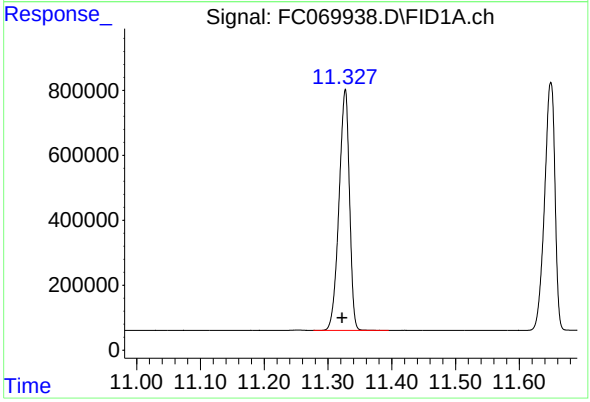
#6 n-Tetradecane (C14)

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



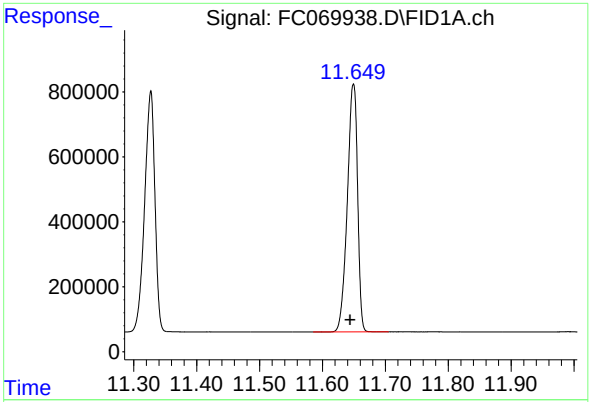
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

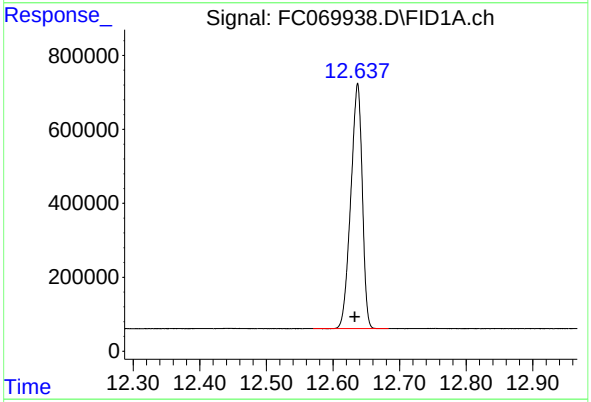
R.T.: 11.327 min
Delta R.T.: 0.005 min
Response: 8439359
Conc: 53.41 ug/ml



#9 ortho-Terphenyl (SURR)

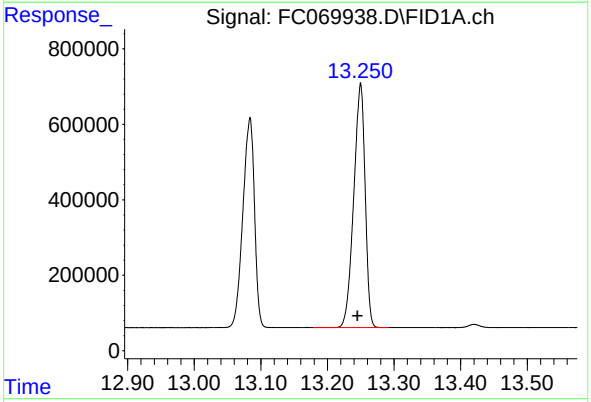
R.T.: 11.649 min
Delta R.T.: 0.005 min
Response: 8639976
Conc: 53.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



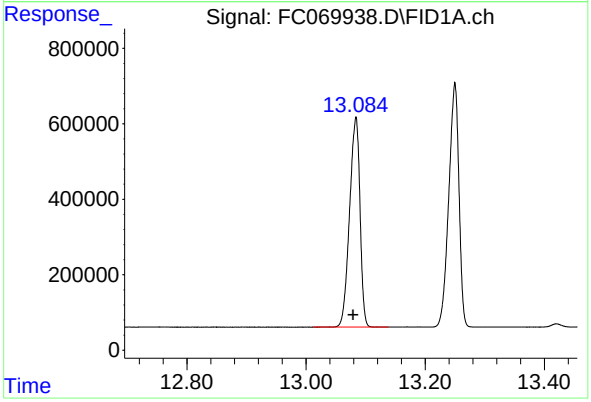
#10 n-Eicosane (C20)

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



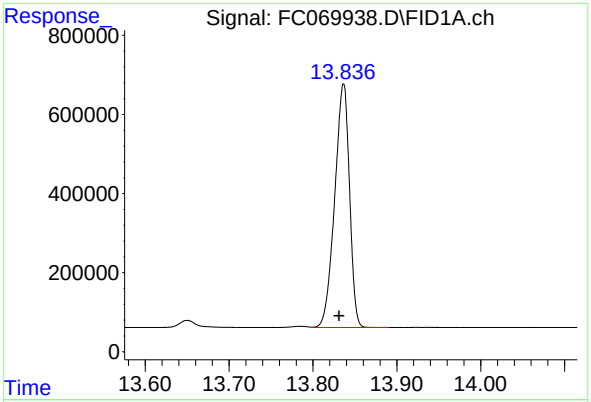
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

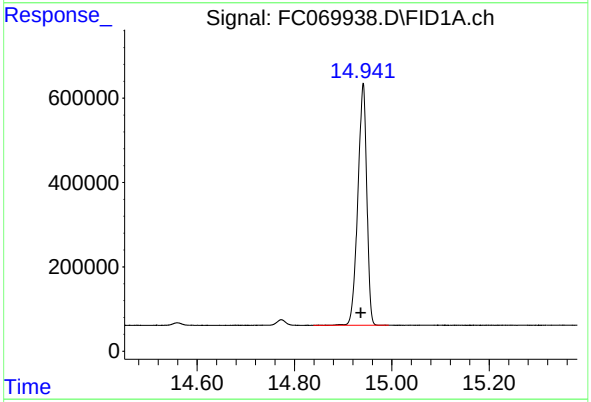
R.T.: 13.083 min
Delta R.T.: 0.004 min
Response: 6744188
Conc: 53.95 ug/ml



#13 n-Docosane (C22)

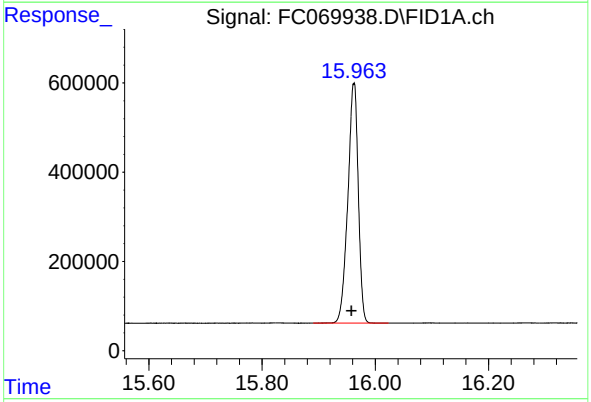
R.T.: 13.836 min
Delta R.T.: 0.005 min
Response: 7552504
Conc: 54.16 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



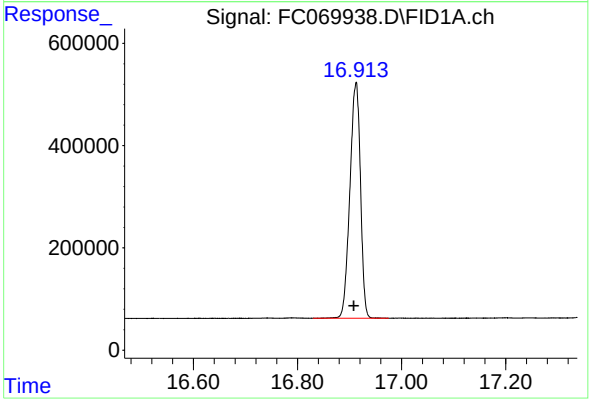
#14 n-Tetracosane (C24)

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



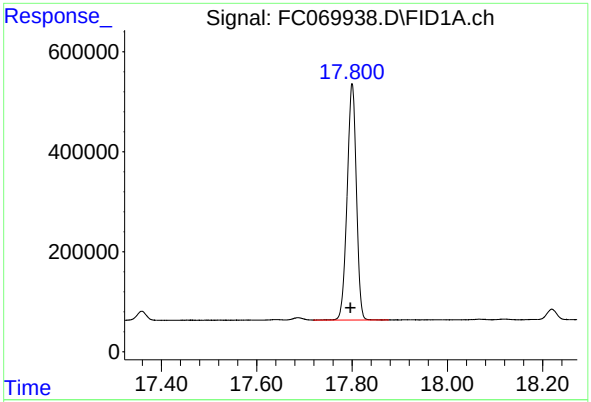
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

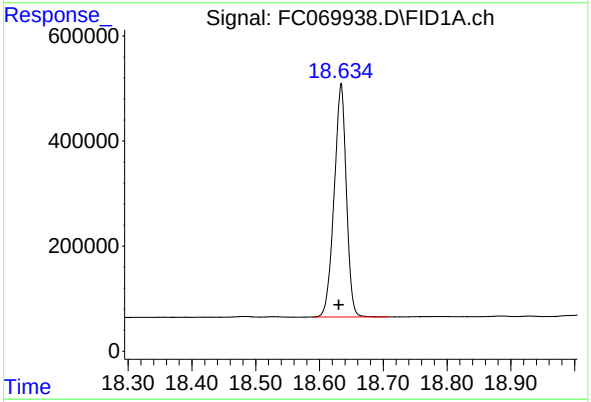
R.T.: 16.912 min
Delta R.T.: 0.004 min
Response: 6492320
Conc: 54.99 ug/ml



#17 n-Tricontane (C30)

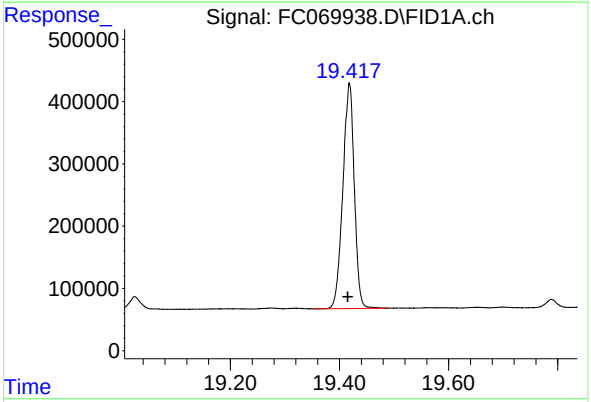
R.T.: 17.800 min
Delta R.T.: 0.003 min
Response: 6323170
Conc: 54.89 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



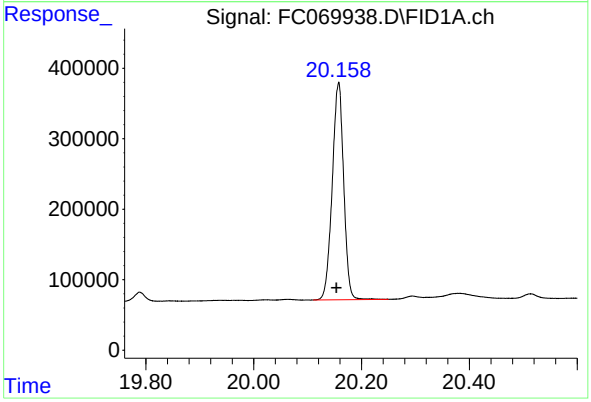
#18 n-Dotriacontane (C32)

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



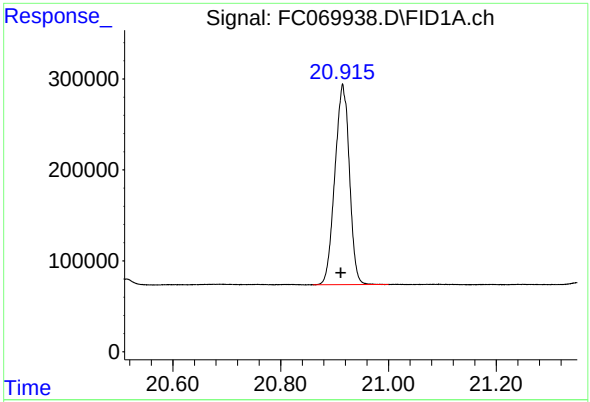
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

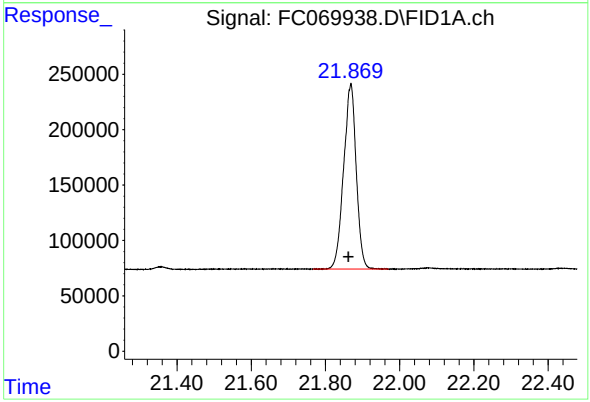
R.T.: 20.157 min
Delta R.T.: 0.004 min
Response: 4546558
Conc: 53.01 ug/ml



#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

Quantitation Report (QT Reviewed)

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.

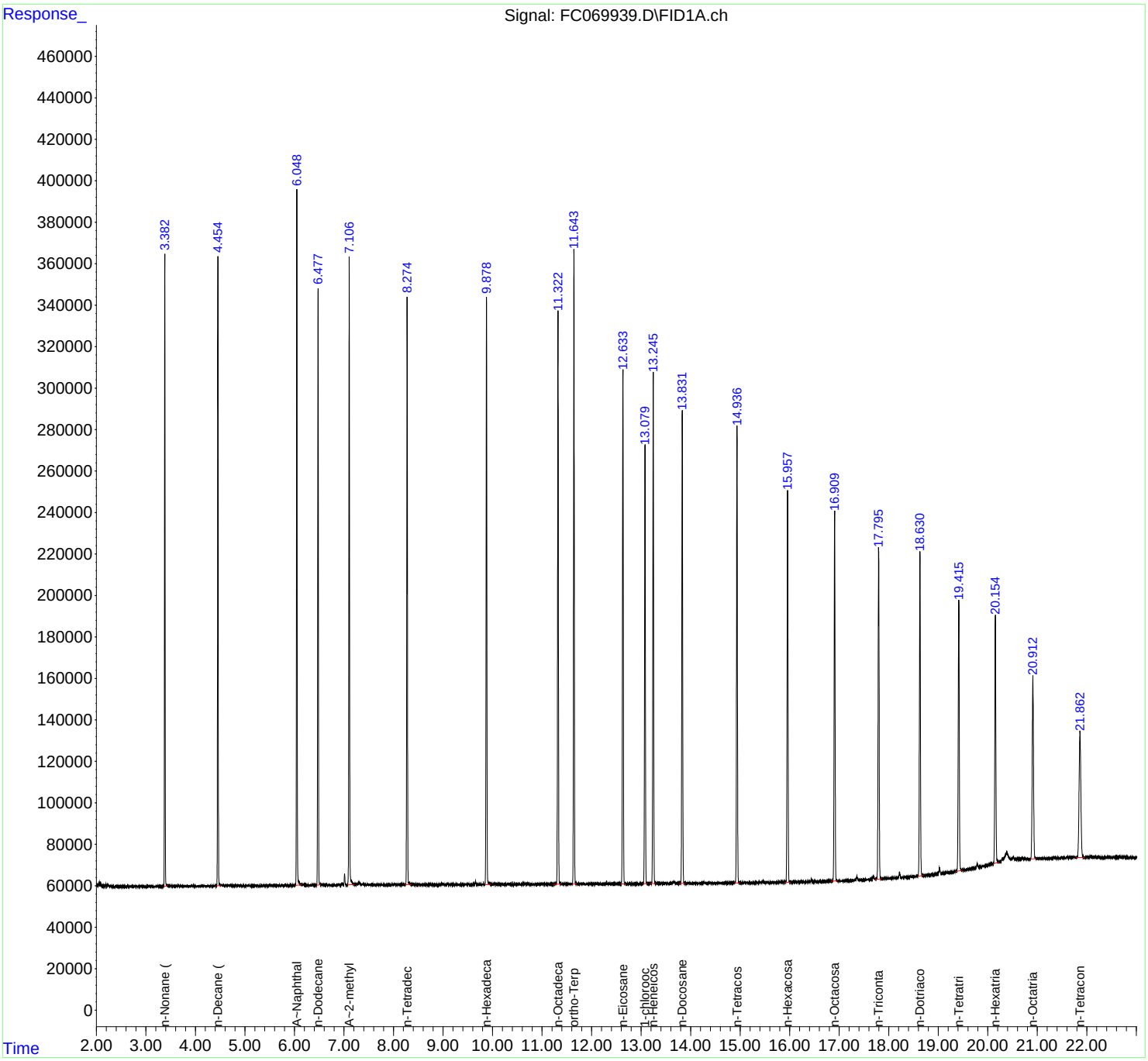
Quantitation Report (QT Reviewed)

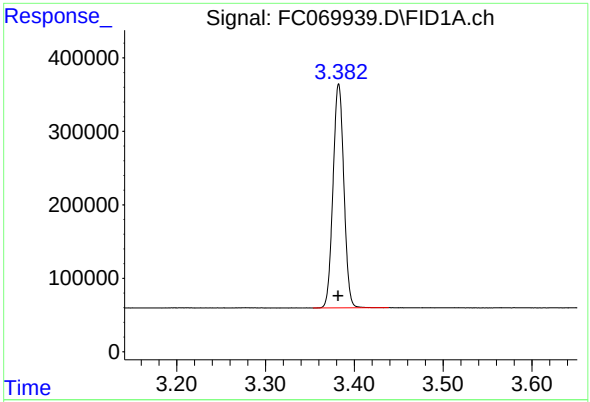
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069939.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 17:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

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

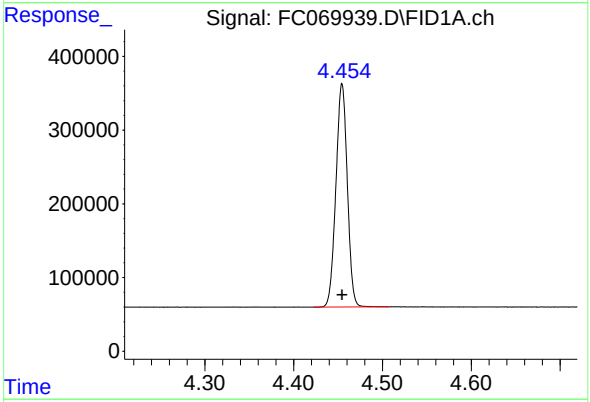




#1 n-Nonane (C9)

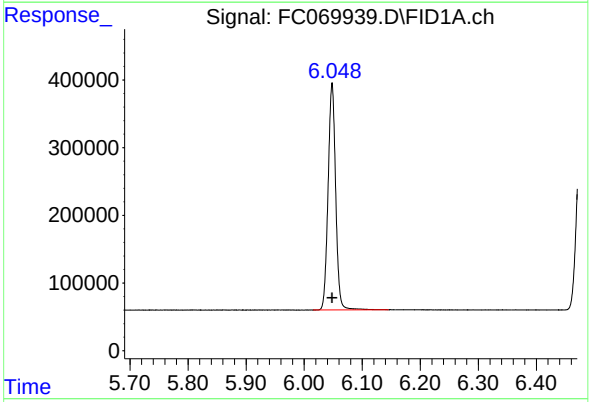
R.T.: 3.382 min
Delta R.T.: 0.000 min
Response: 2586179
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



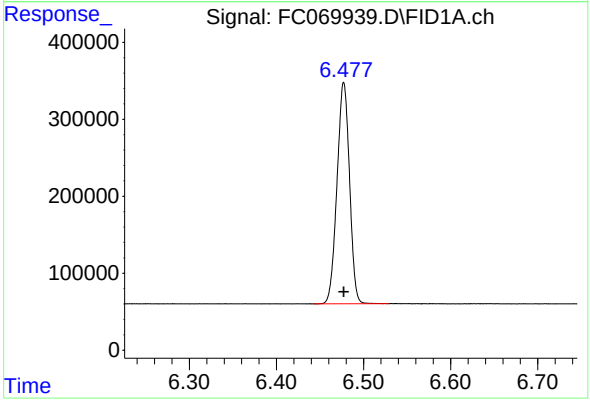
#2 n-Decane (C10)

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



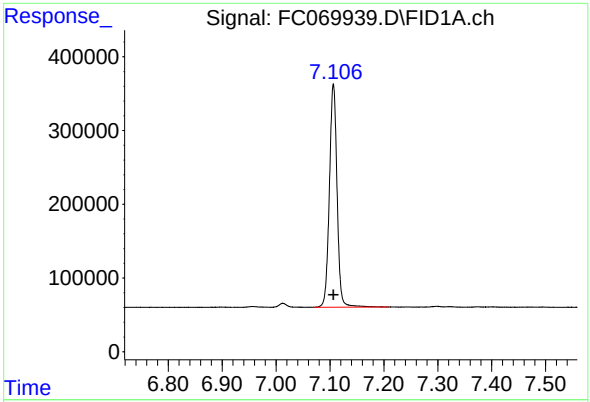
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

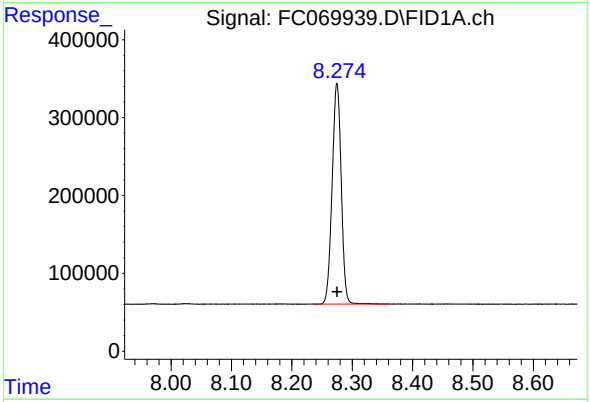
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 2870146
Conc: 20.00 ug/ml



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

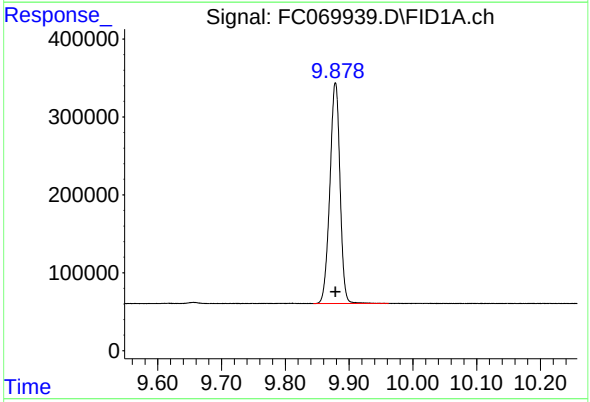
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 2990239
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



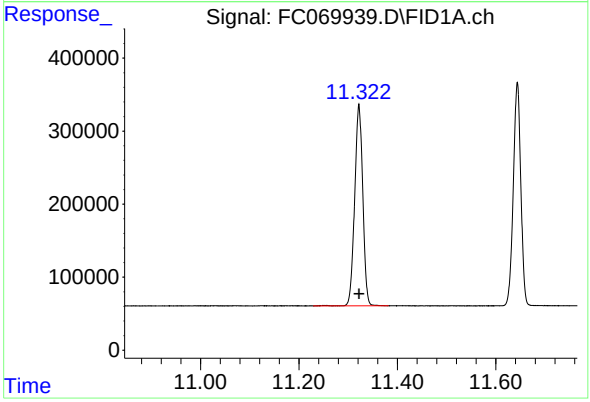
#6 n-Tetradecane (C14)

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



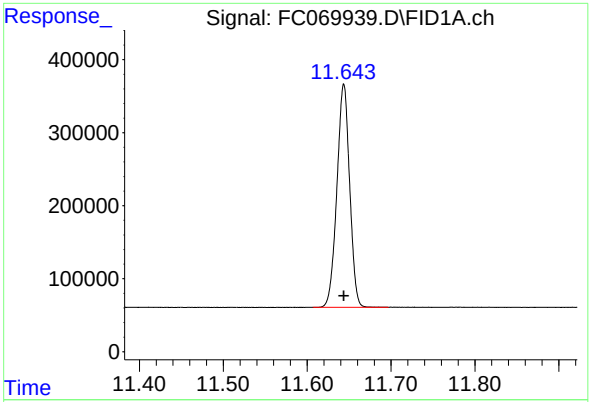
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

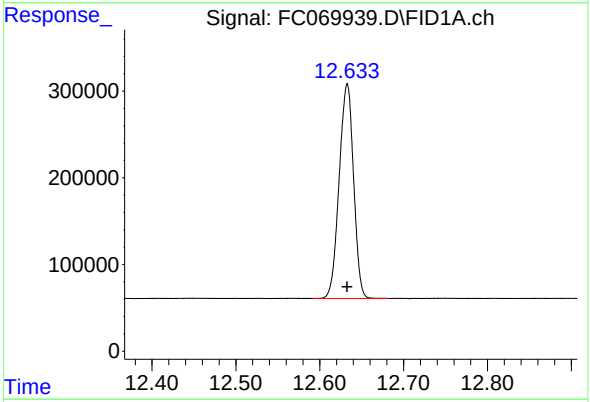
R.T.: 11.322 min
Delta R.T.: 0.000 min
Response: 3160241
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

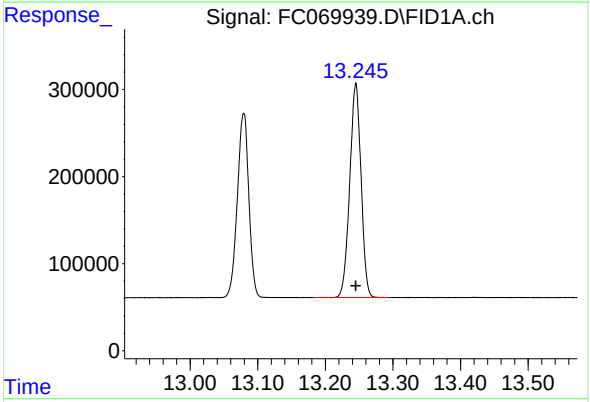
R.T.: 11.644 min
Delta R.T.: 0.000 min
Response: 3233829
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



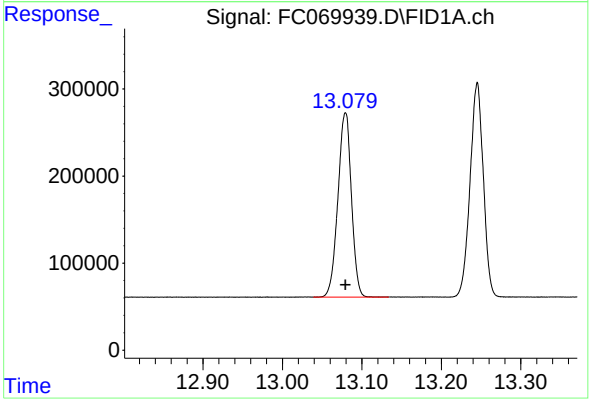
#10 n-Eicosane (C20)

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



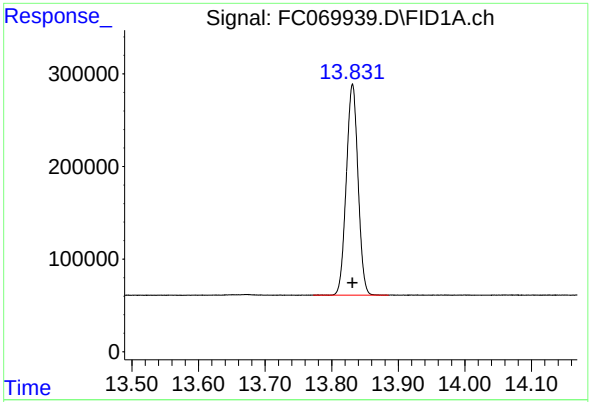
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

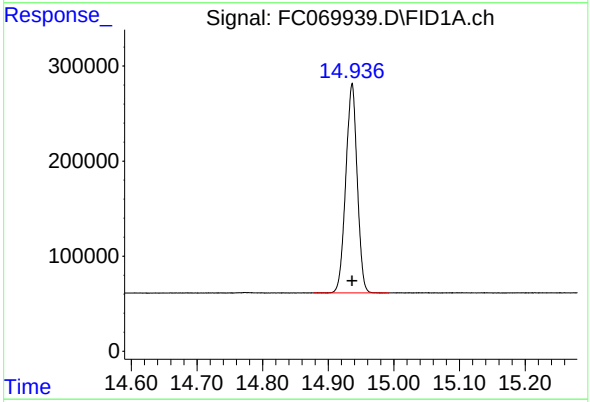
R.T.: 13.079 min
Delta R.T.: 0.000 min
Response: 2500104
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

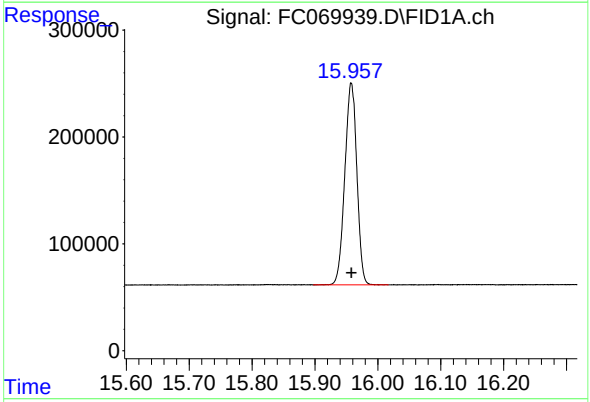
R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 2789185
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



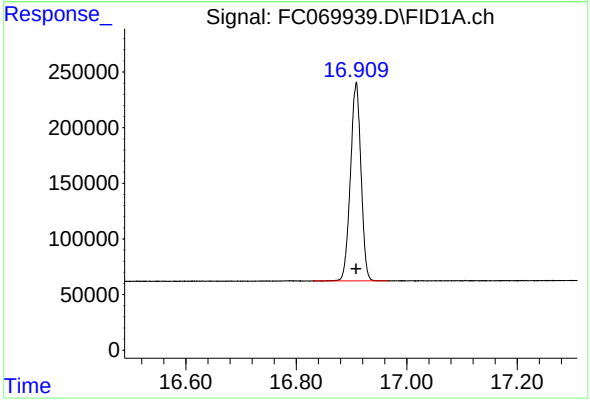
#14 n-Tetracosane (C24)

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



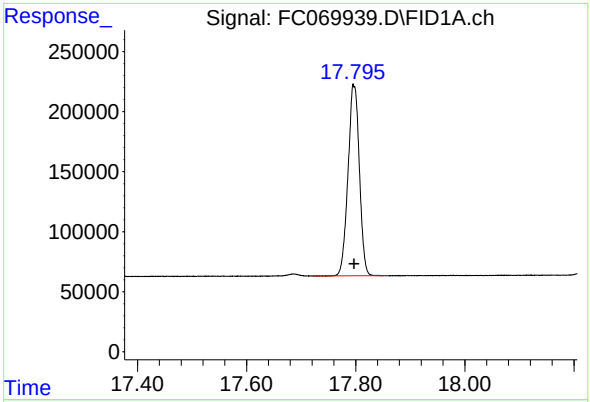
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

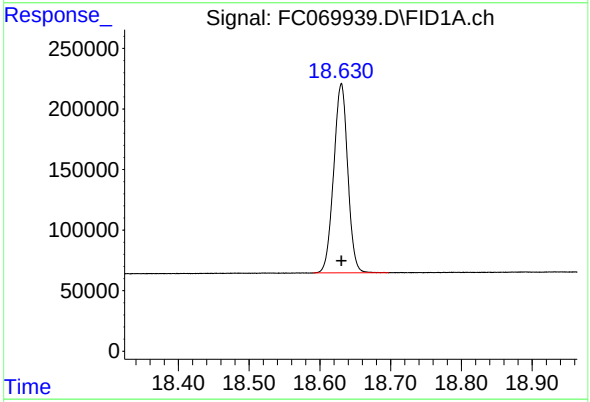
R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 2361381
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

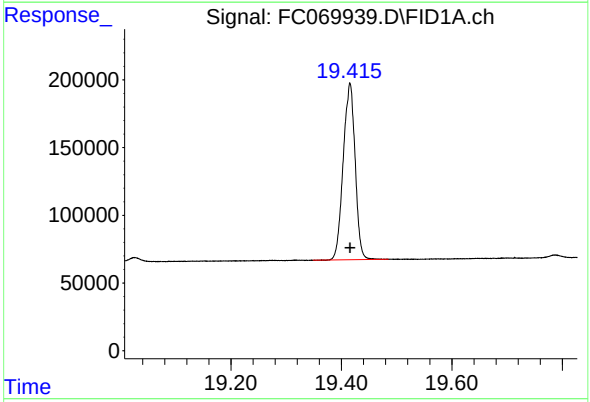
R.T.: 17.797 min
Delta R.T.: 0.000 min
Response: 2304010
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



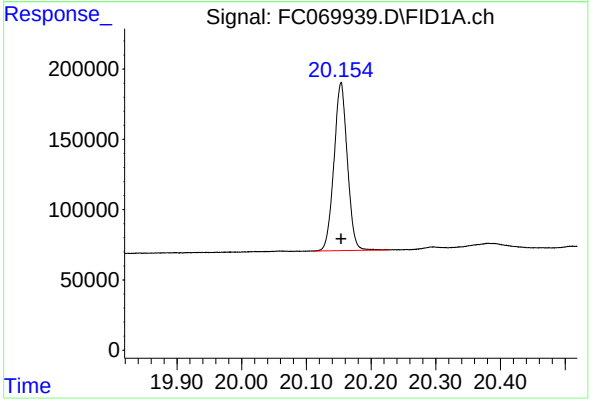
#18 n-Dotriacontane (C32)

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



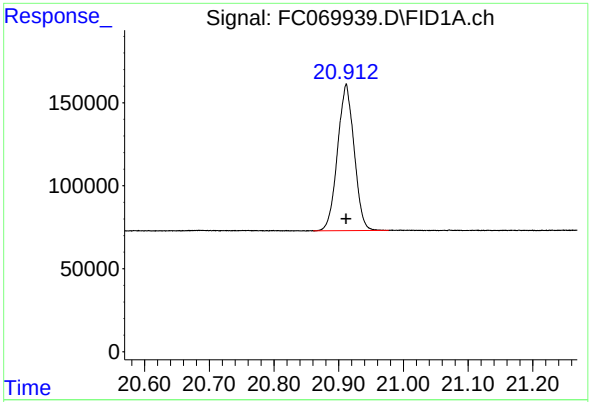
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

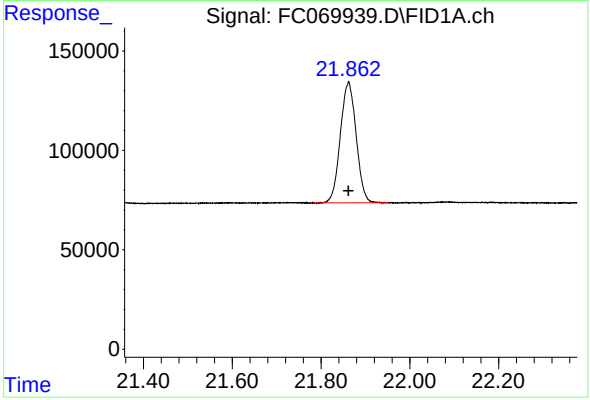
R.T.: 20.153 min
Delta R.T.: 0.000 min
Response: 1715254
Conc: 20.00 ug/ml



#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

Quantitation Report (QT Reviewed)

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

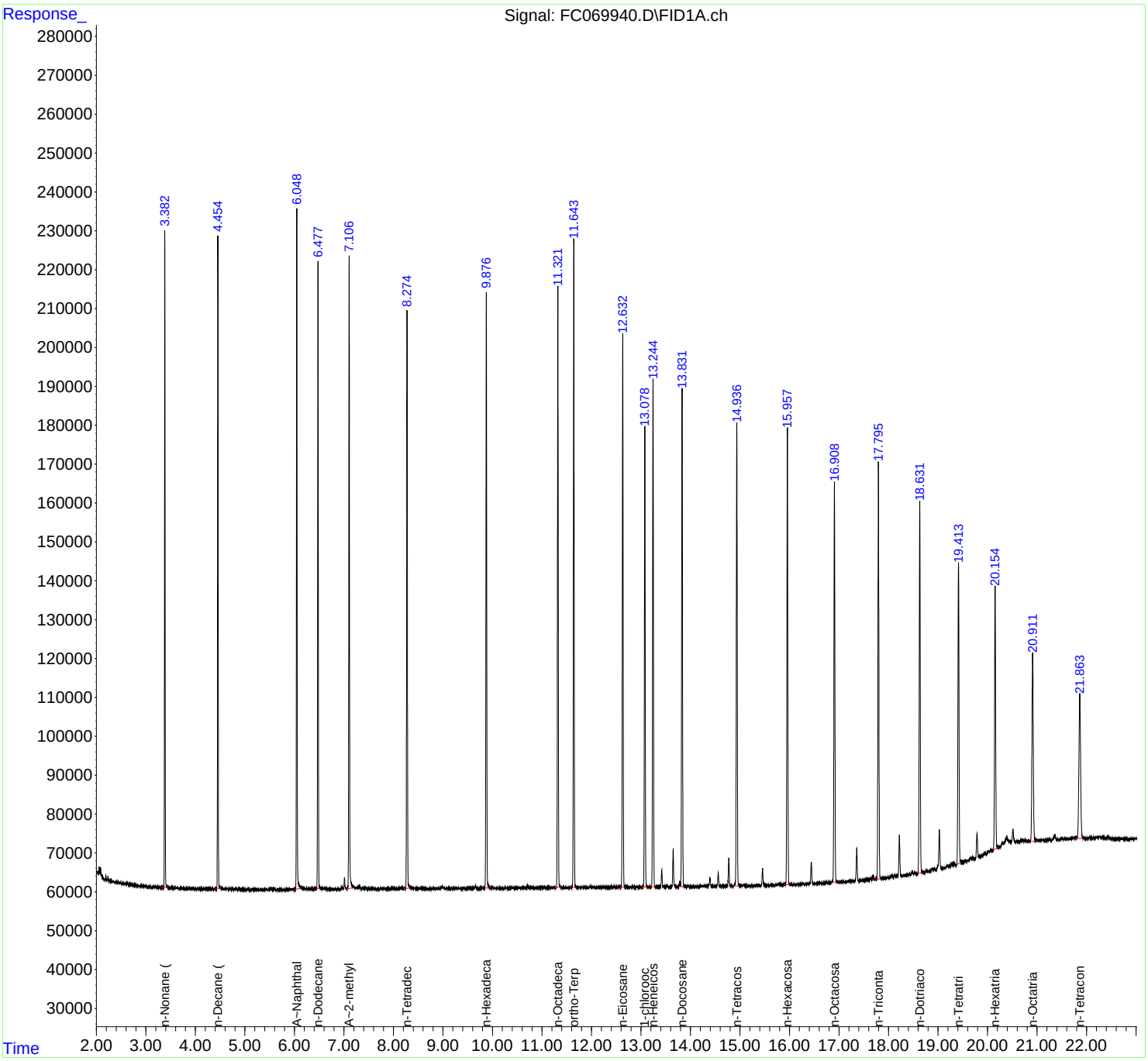
Integration File: autoint1.e
Quant Time: Oct 07 09:28:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:26:41 2025
Response via : Initial Calibration
Integrator: ChemStation

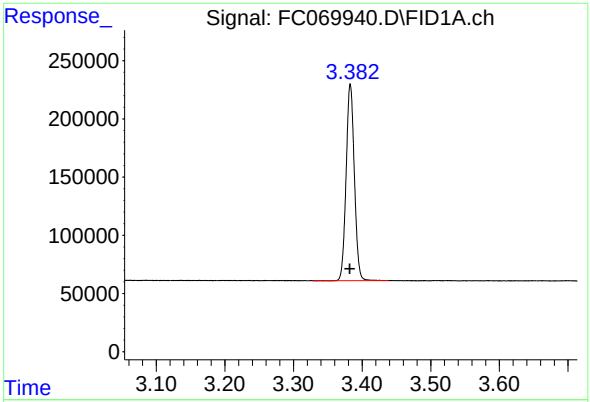
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

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





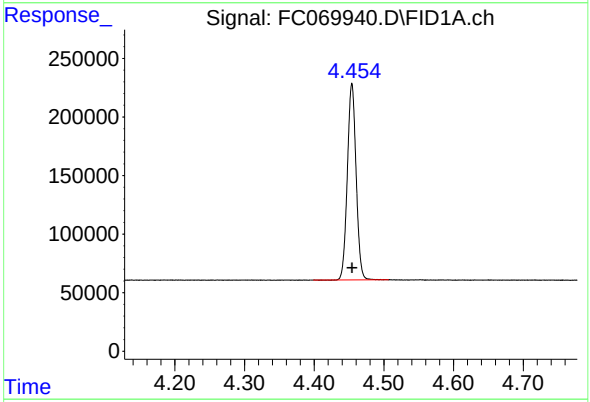
#1 n-Nonane (C9)

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

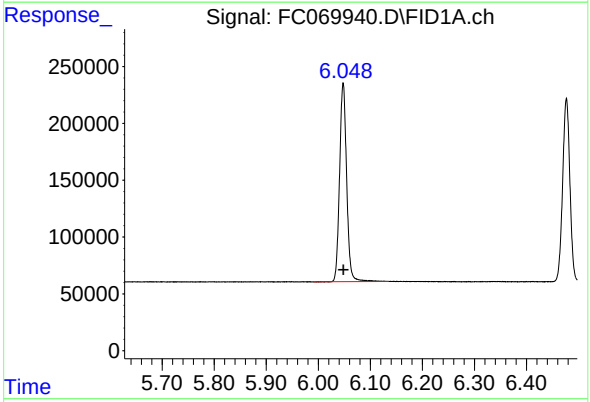
Manual Integrations
APPROVED

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



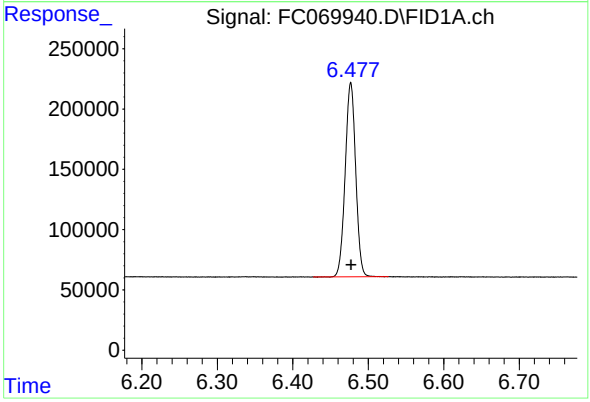
#2 n-Decane (C10)

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



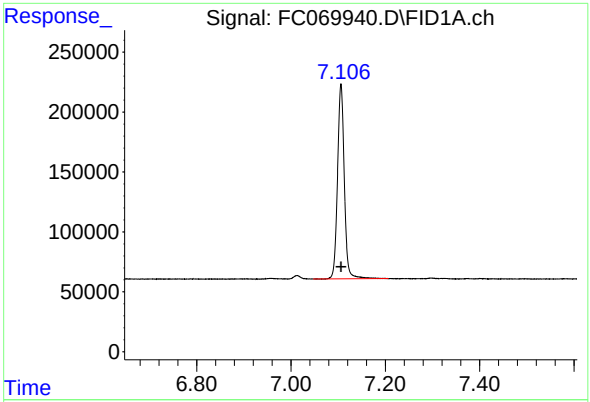
#3 A~Naphthalene (C11.7)

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



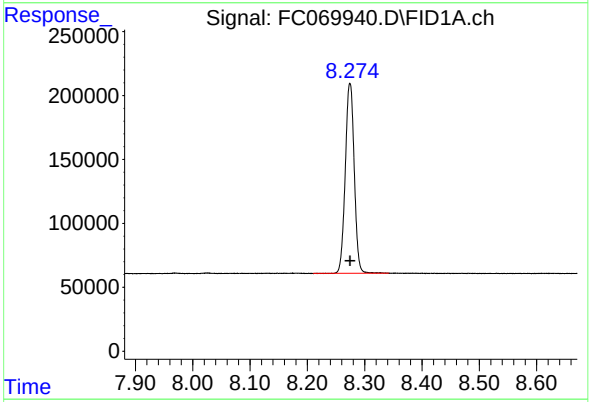
#5 A~2-methylnaphthalene (C12.89)

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

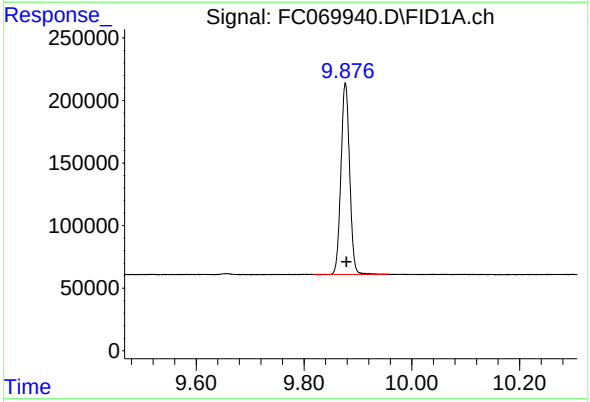
Manual Integrations
APPROVED

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



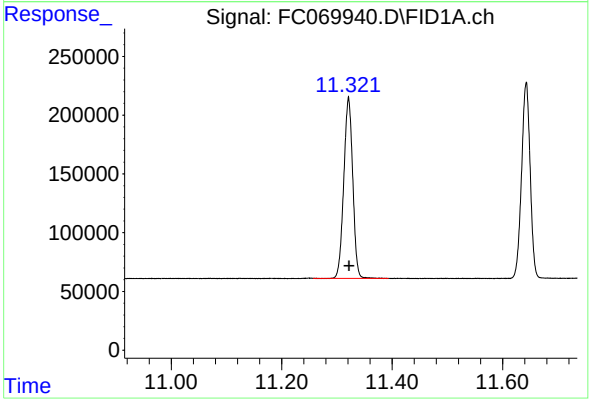
#6 n-Tetradecane (C14)

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



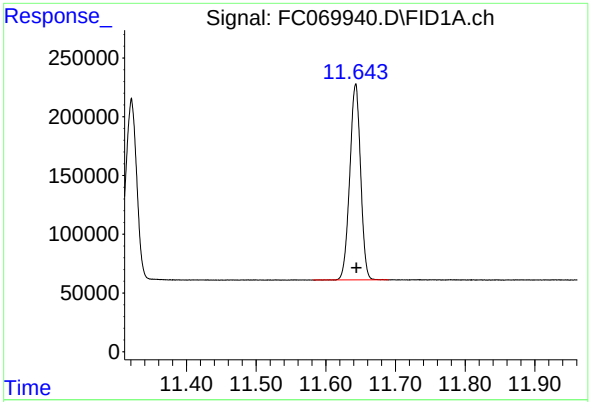
#7 n-Hexadecane (C16)

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



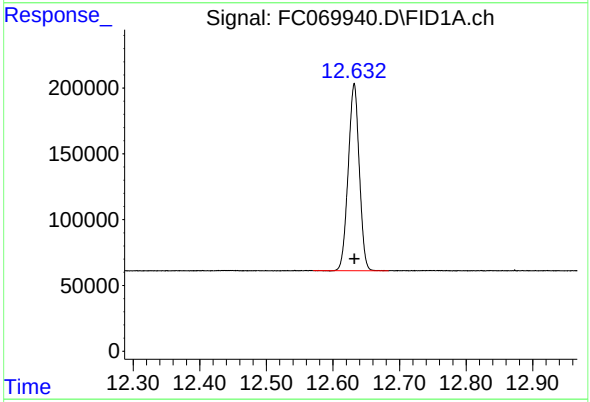
#9 ortho-Terphenyl (SURR)

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

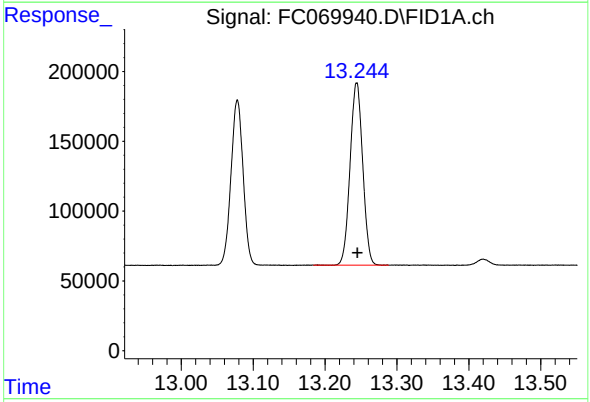
Manual Integrations
APPROVED

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



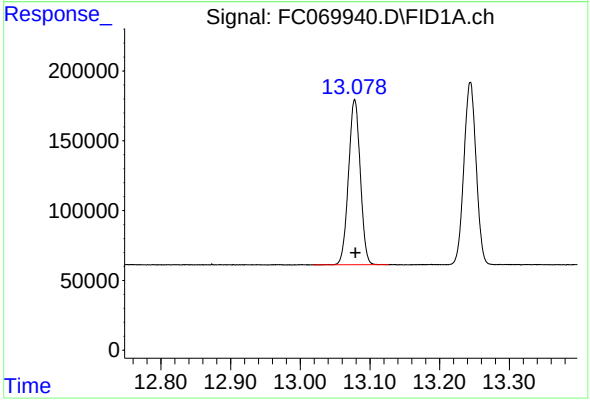
#10 n-Eicosane (C20)

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



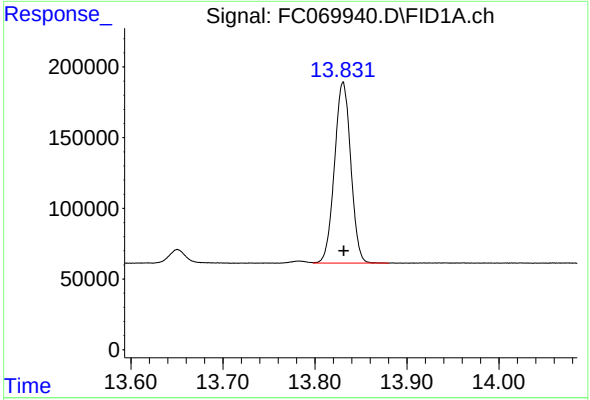
#11 n-Heneicosane (C21)

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



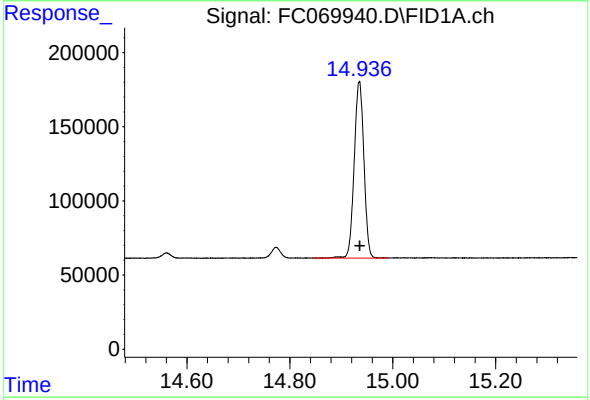
#13 n-Docosane (C22)

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

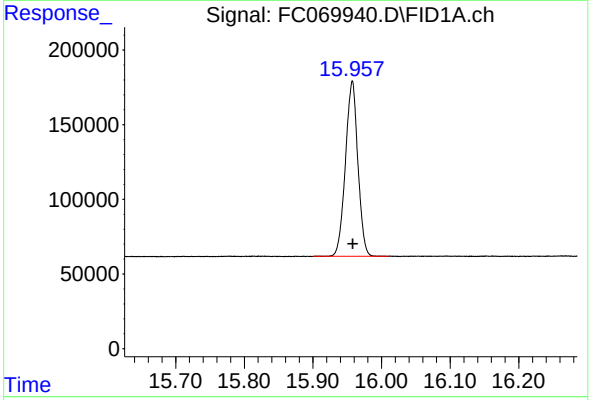
Manual Integrations
APPROVED

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



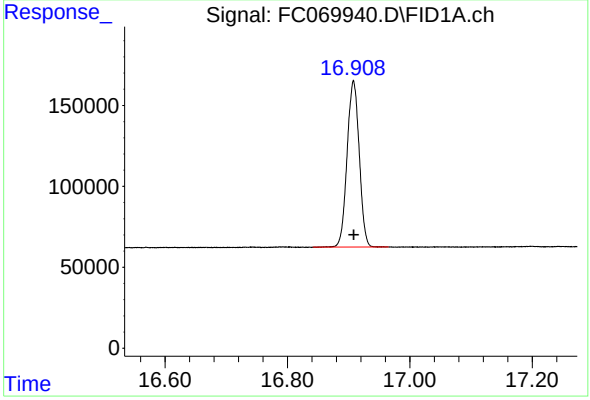
#14 n-Tetracosane (C24)

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



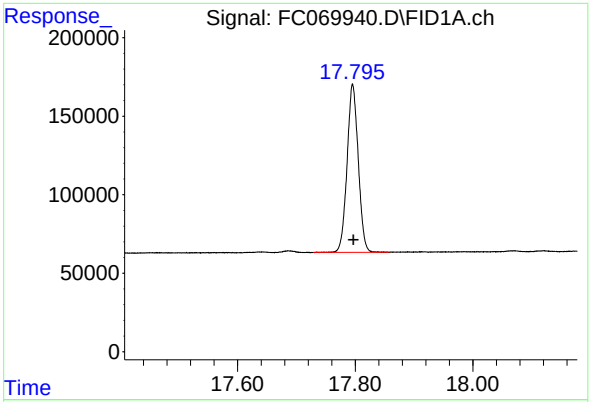
#15 n-Hexacosane (C26)

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



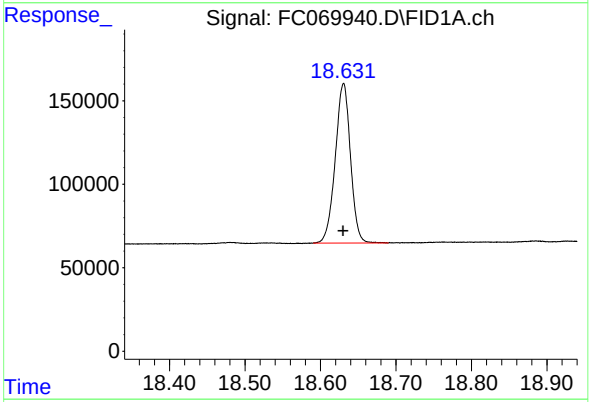
#17 n-Tricontane (C30)

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

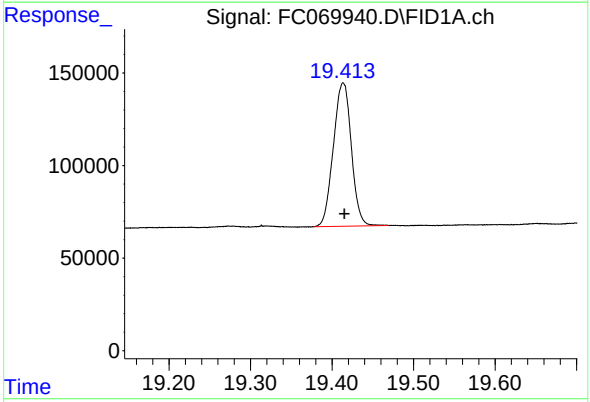
Manual Integrations
APPROVED

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



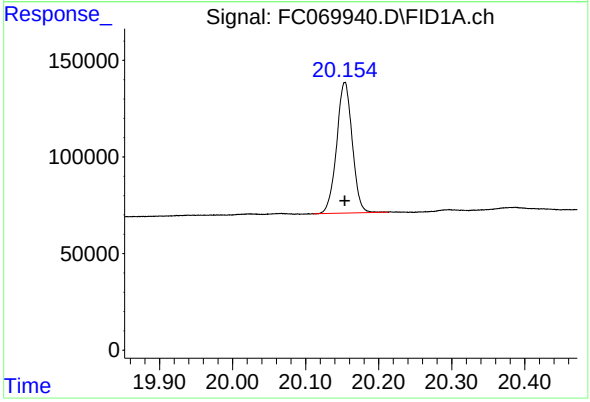
#18 n-Dotriacontane (C32)

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



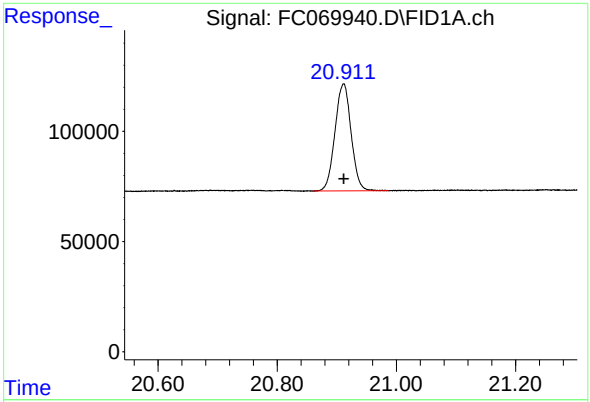
#19 n-Tetratriacontane (C34)

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



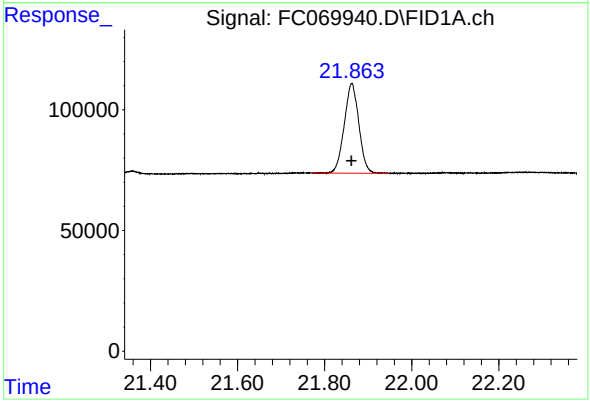
#21 n-Octatriacontane (C38)

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

Instrument :
FID_C
LabSampleId :
10 PPM ALIPHATIC HC STD4

rteres

Area Percent Report

Manual IntegrationsAPPROVED

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10072
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

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

Quantitation Report (QT Reviewed)

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

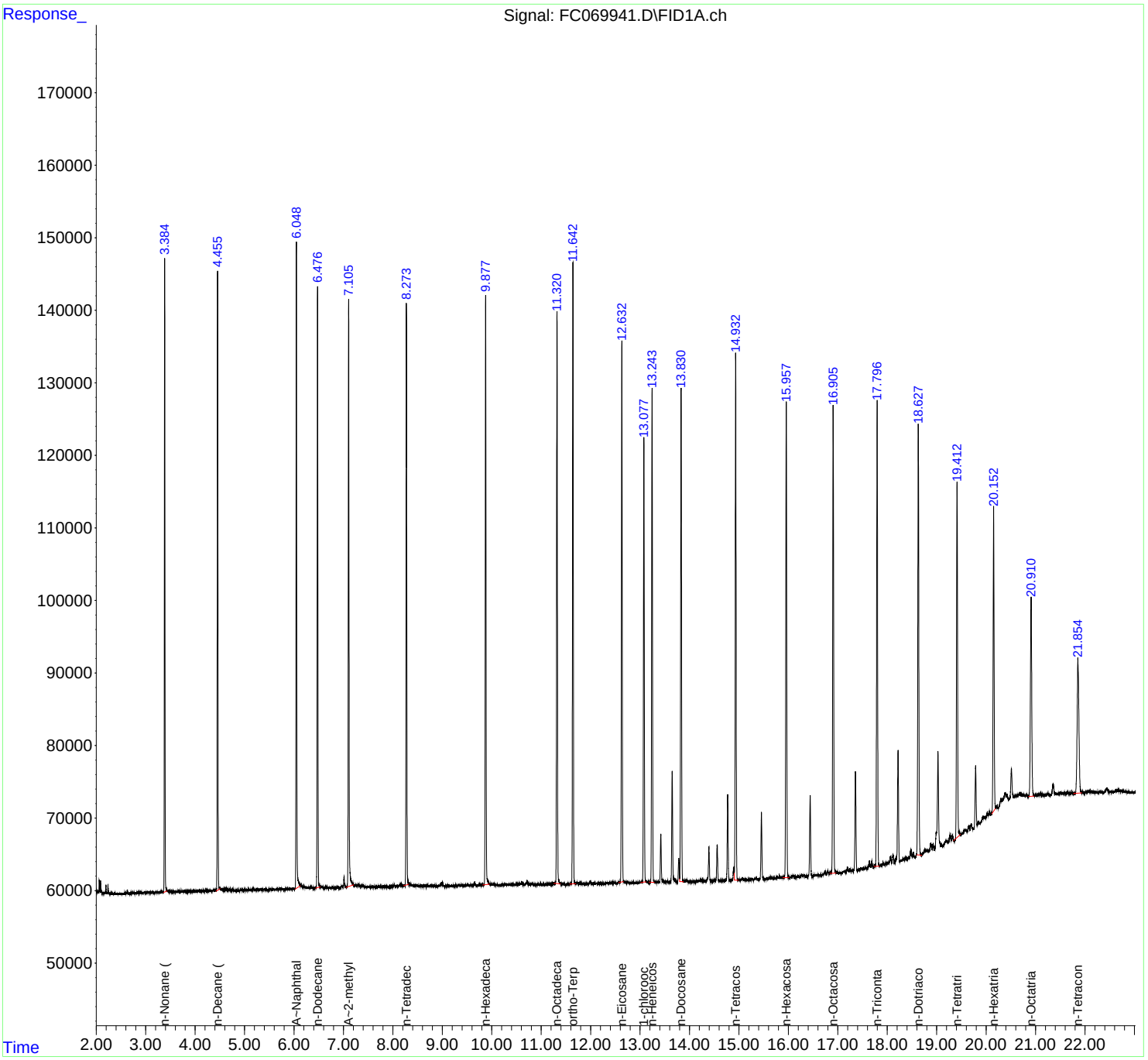
(f)=RT Delta > 1/2 Window (m)=manual int.

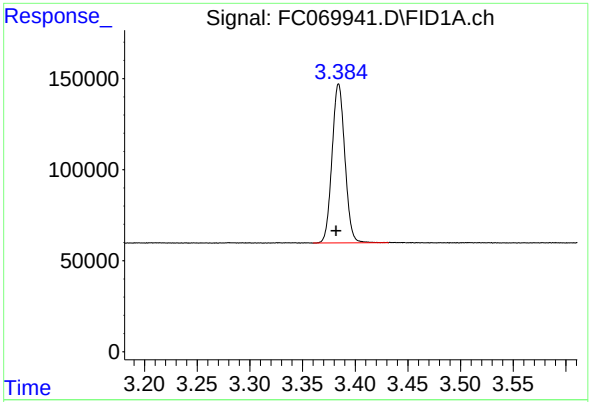
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069941.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 19:19
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

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

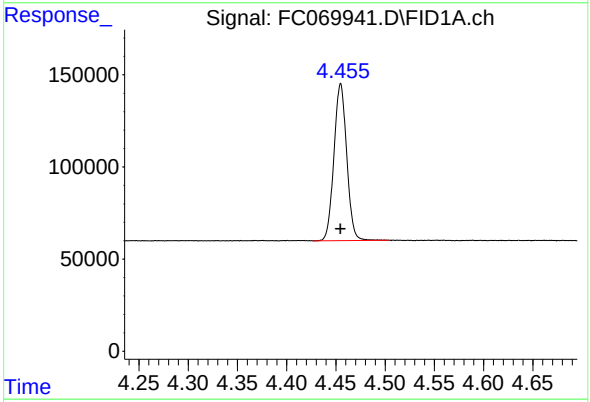




#1 n-Nonane (C9)

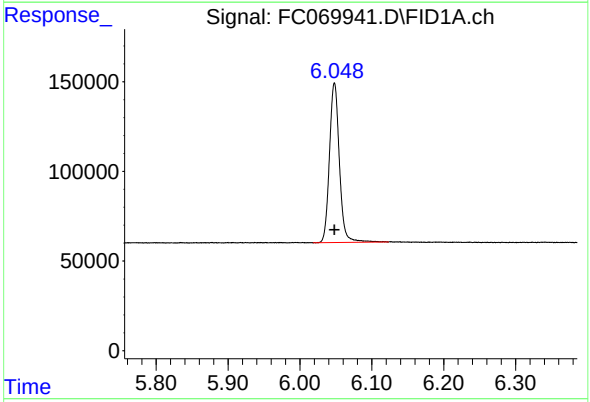
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 738481
Conc: 5.71 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



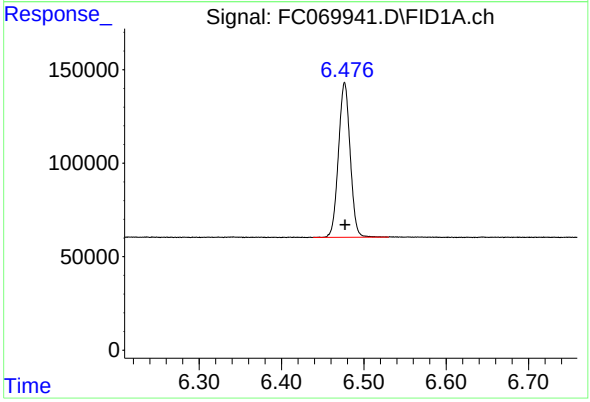
#2 n-Decane (C10)

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



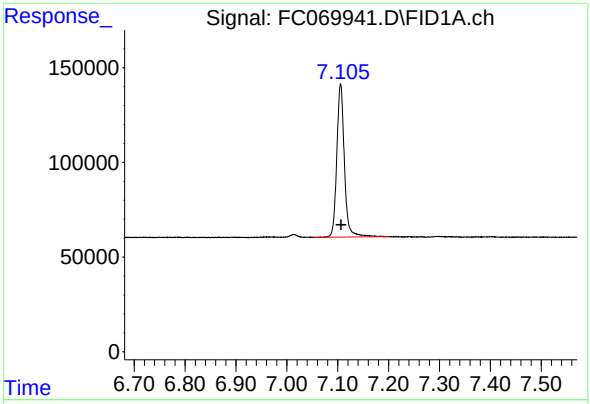
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

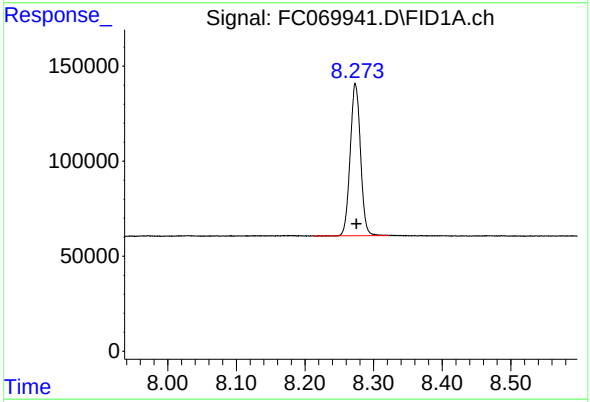
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 814407
Conc: 5.68 ug/ml



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

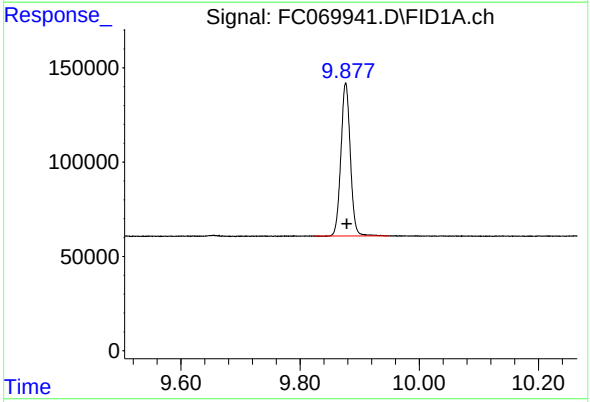
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 839181
Conc: 5.61 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



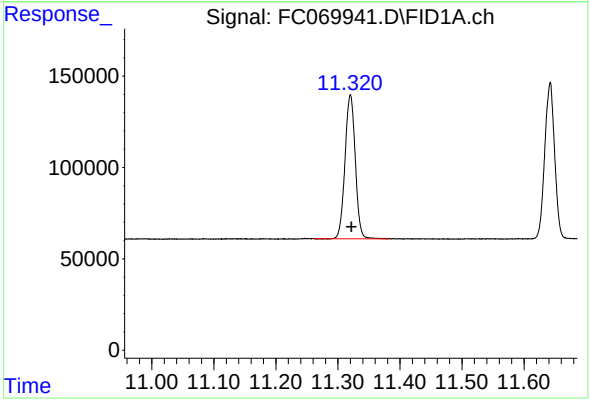
#6 n-Tetradecane (C14)

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



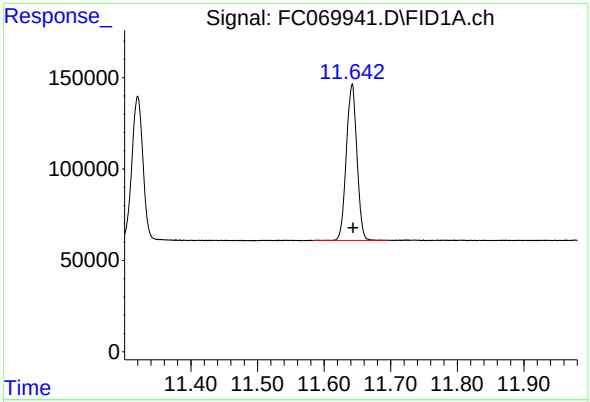
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

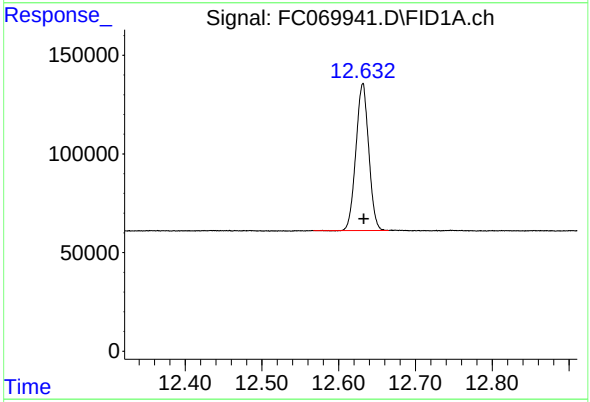
R.T.: 11.320 min
Delta R.T.: -0.002 min
Response: 907348
Conc: 5.74 ug/ml



#9 ortho-Terphenyl (SURR)

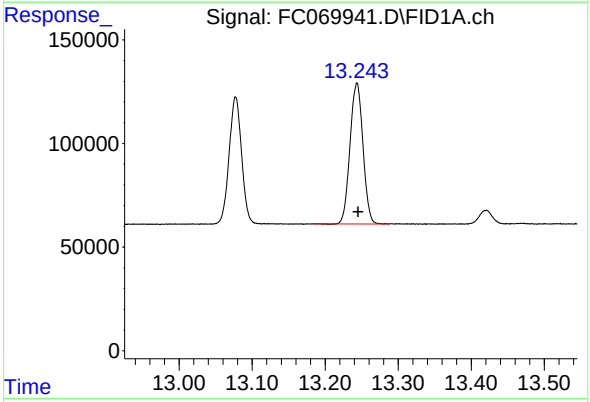
R.T.: 11.642 min
Delta R.T.: -0.002 min
Response: 945317
Conc: 5.85 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



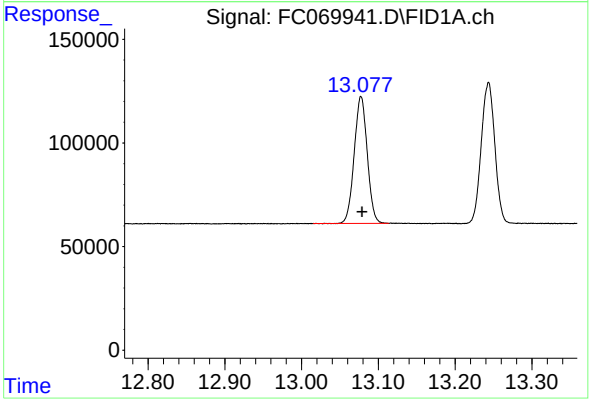
#10 n-Eicosane (C20)

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



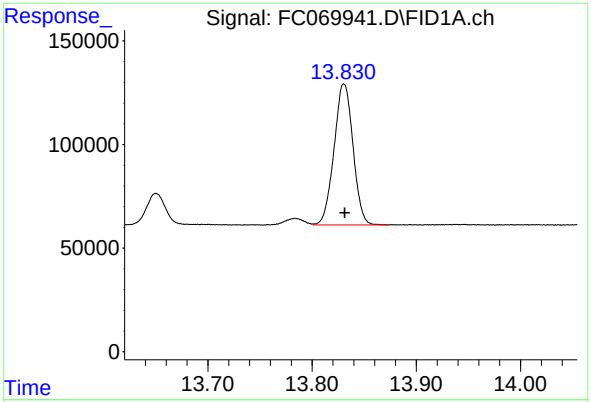
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

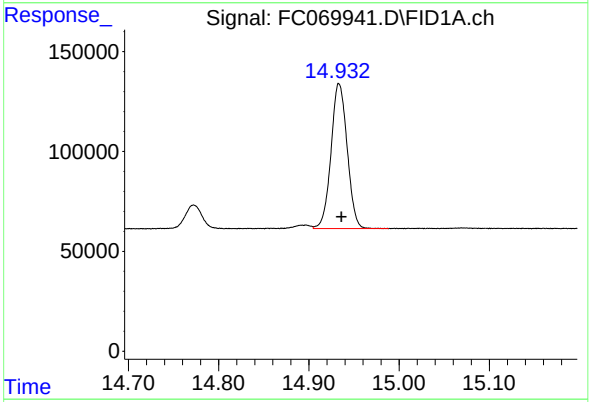
R.T.: 13.077 min
Delta R.T.: -0.002 min
Response: 725060
Conc: 5.80 ug/ml



#13 n-Docosane (C22)

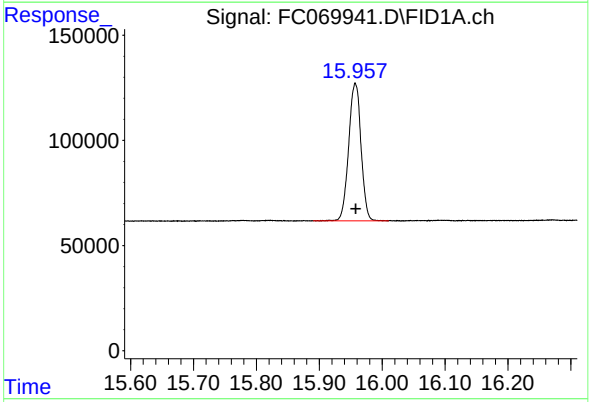
R.T.: 13.831 min
Delta R.T.: 0.000 min
Response: 859000
Conc: 6.16 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



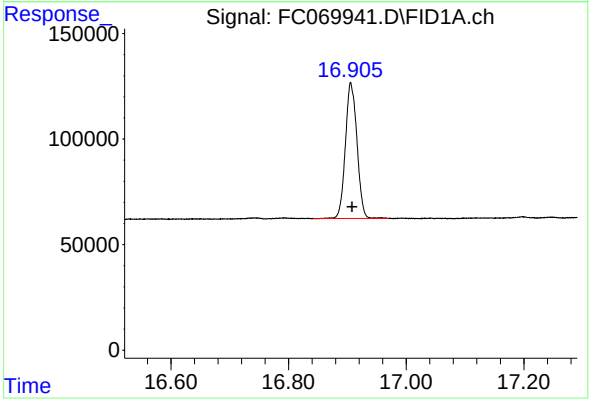
#14 n-Tetracosane (C24)

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



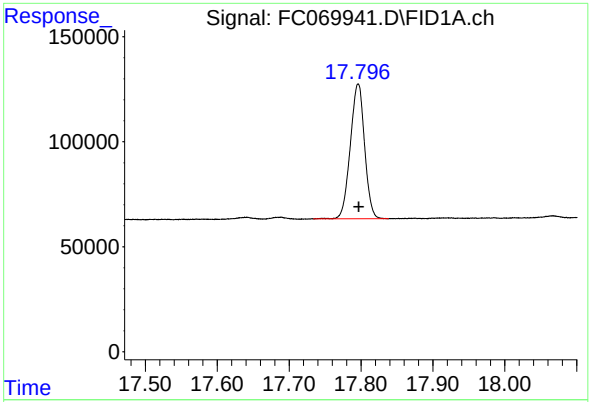
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

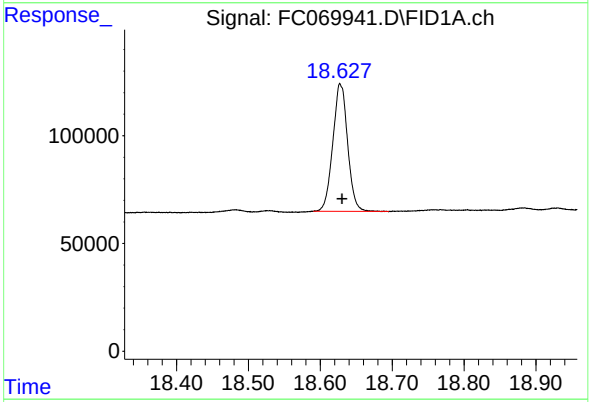
R.T.: 16.906 min
Delta R.T.: -0.002 min
Response: 879183
Conc: 7.45 ug/ml



#17 n-Tricontane (C30)

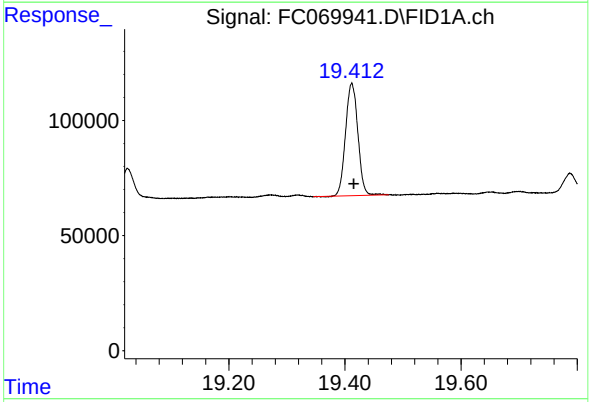
R.T.: 17.796 min
Delta R.T.: -0.001 min
Response: 882722
Conc: 7.66 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



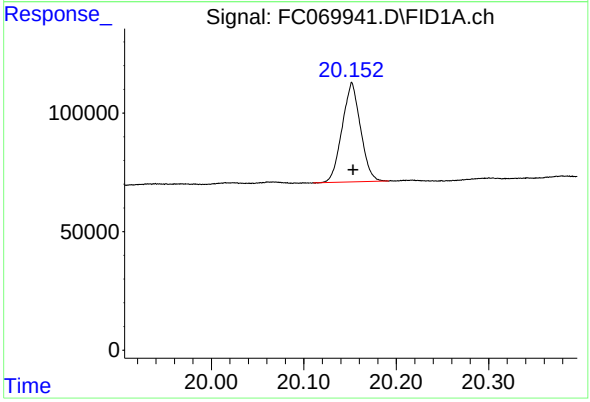
#18 n-Dotriacontane (C32)

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



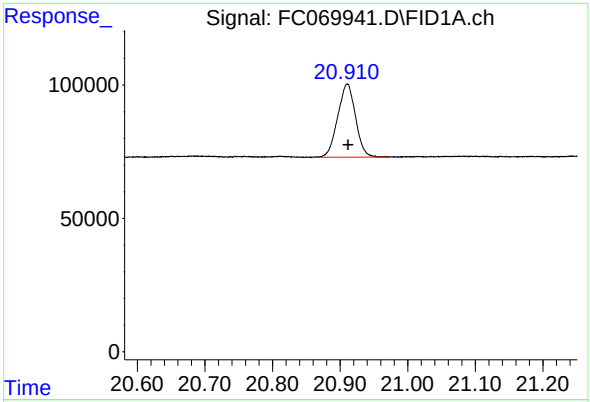
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

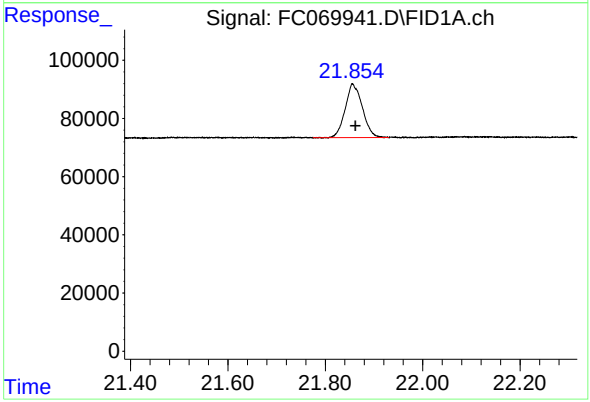
R.T.: 20.152 min
Delta R.T.: -0.001 min
Response: 578690
Conc: 6.75 ug/ml



#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

Quantitation Report (QT Reviewed)

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

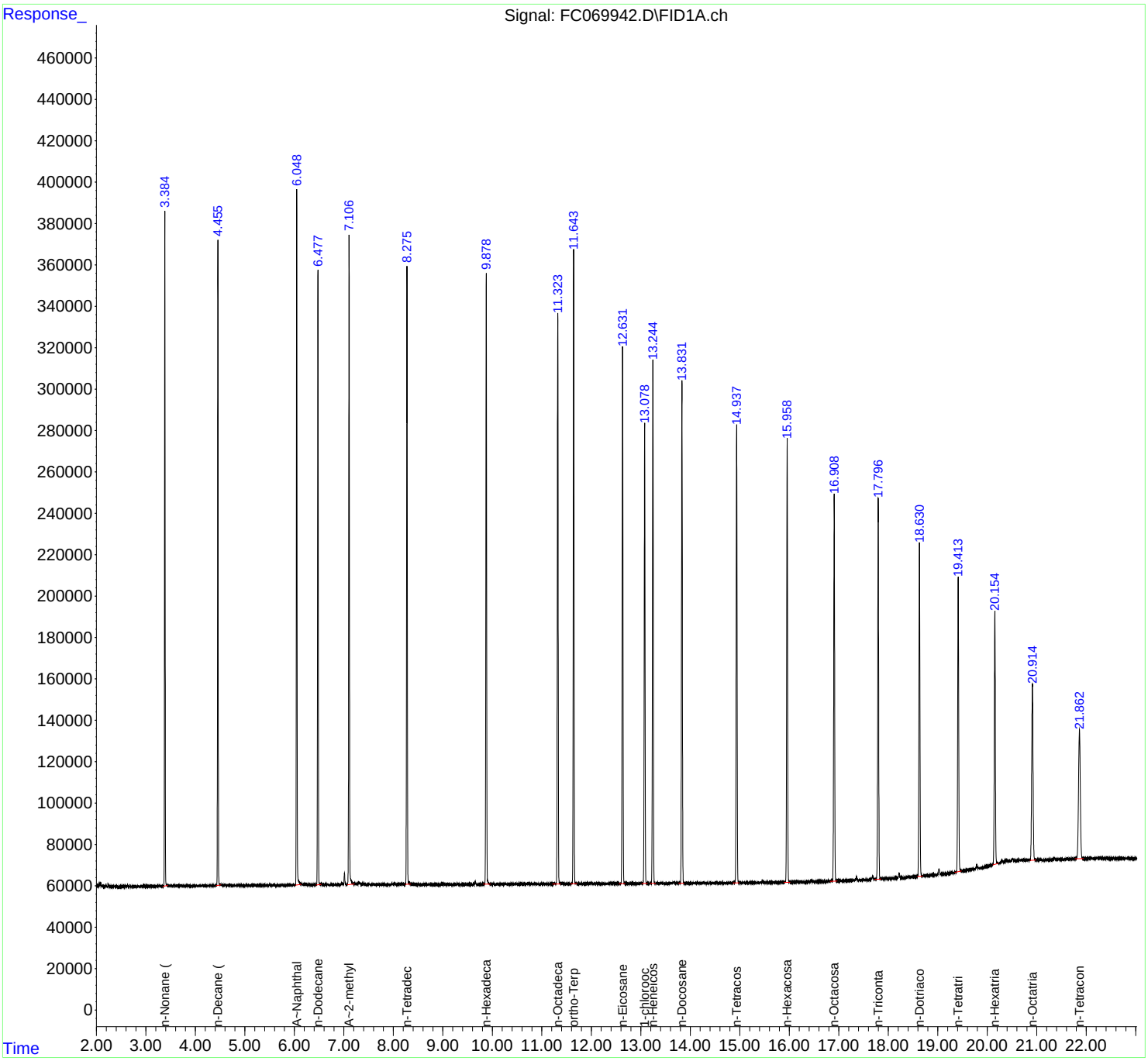
(f)=RT Delta > 1/2 Window (m)=manual int.

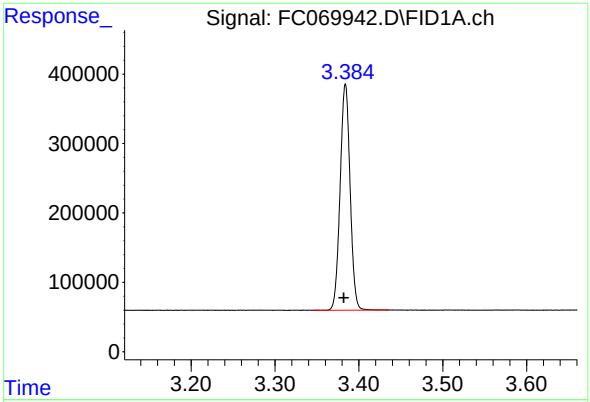
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100725AL\
Data File : FC069942.D
Signal(s) : FID1A.ch
Acq On : 06 Oct 2025 20:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

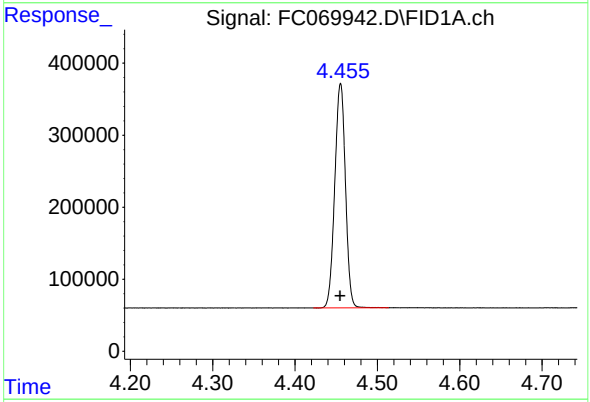




#1 n-Nonane (C9)

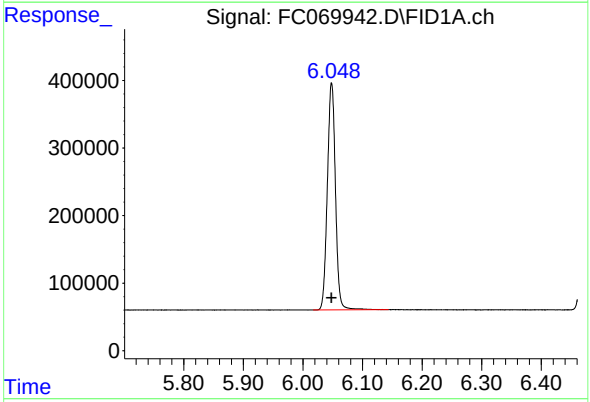
R.T.: 3.384 min
Delta R.T.: 0.002 min
Response: 2690163
Conc: 19.59 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



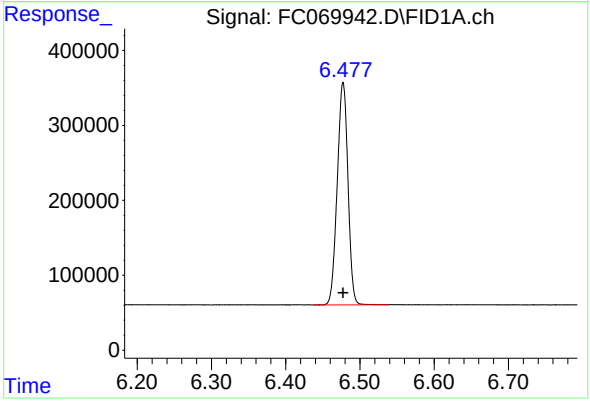
#2 n-Decane (C10)

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



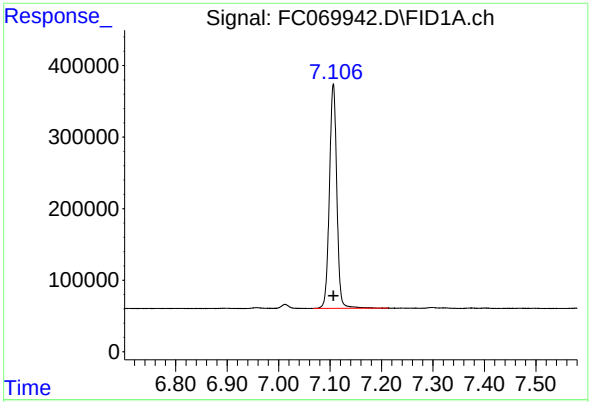
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

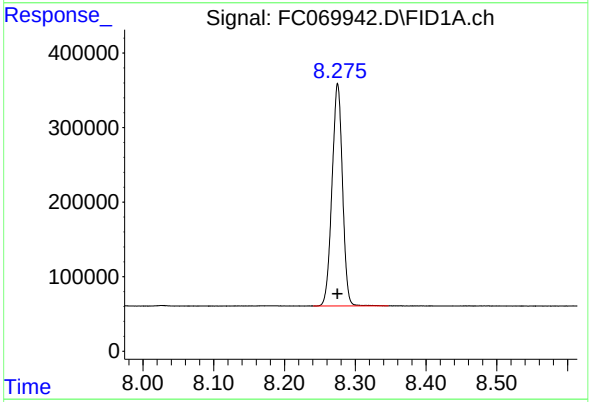
R.T.: 6.477 min
Delta R.T.: 0.000 min
Response: 2978686
Conc: 19.43 ug/ml



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

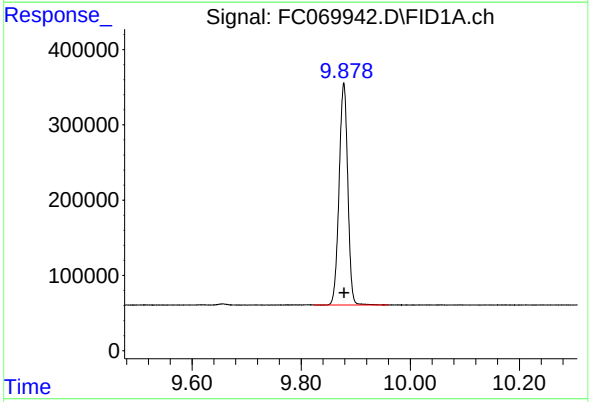
R.T.: 7.106 min
Delta R.T.: 0.000 min
Response: 3136946
Conc: 19.66 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



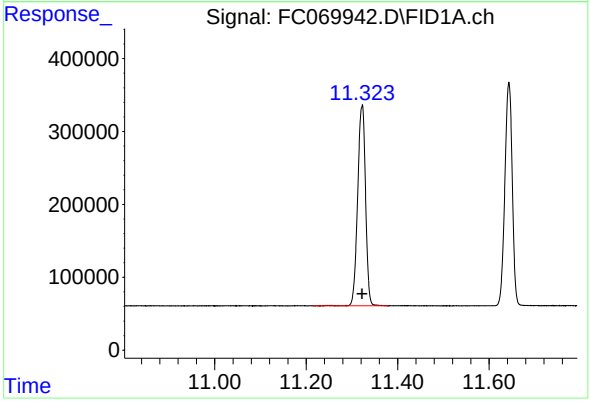
#6 n-Tetradecane (C14)

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



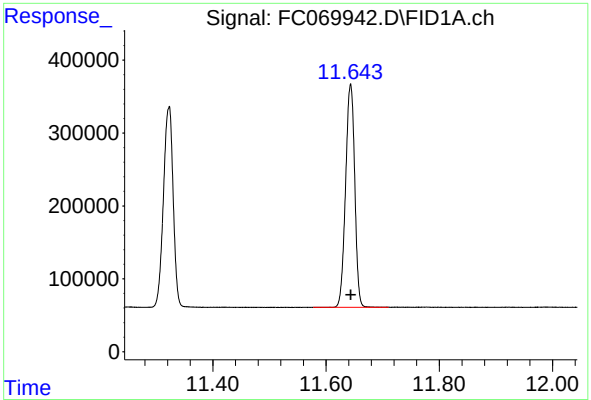
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

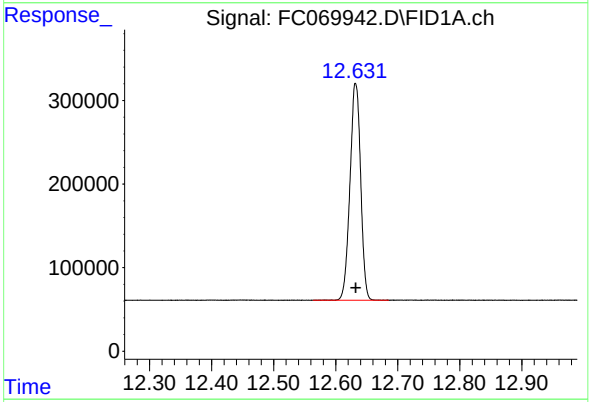
R.T.: 11.322 min
Delta R.T.: 0.000 min
Response: 3293110
Conc: 19.36 ug/ml



#9 ortho-Terphenyl (SURR)

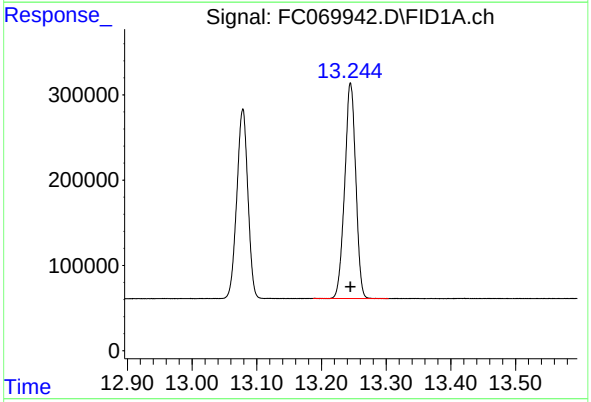
R.T.: 11.643 min
Delta R.T.: 0.000 min
Response: 3426826
Conc: 19.51 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



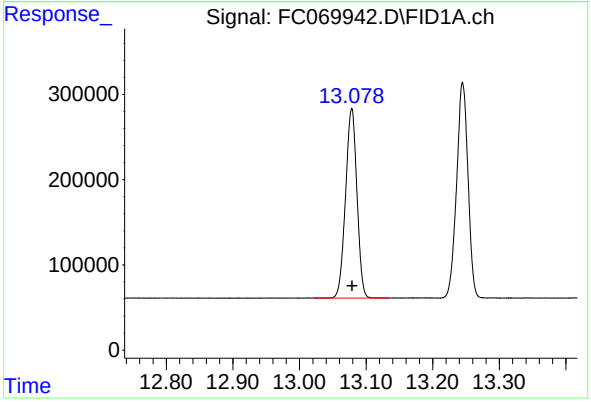
#10 n-Eicosane (C20)

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



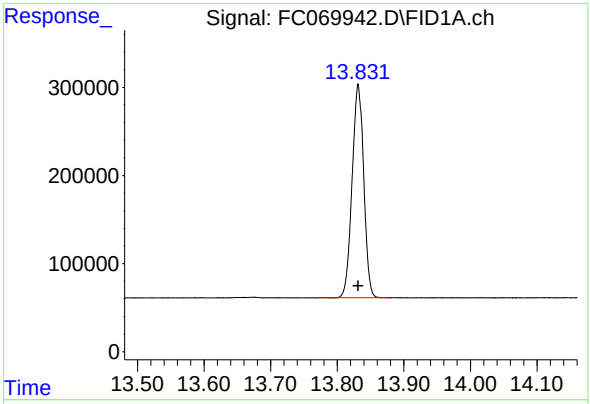
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

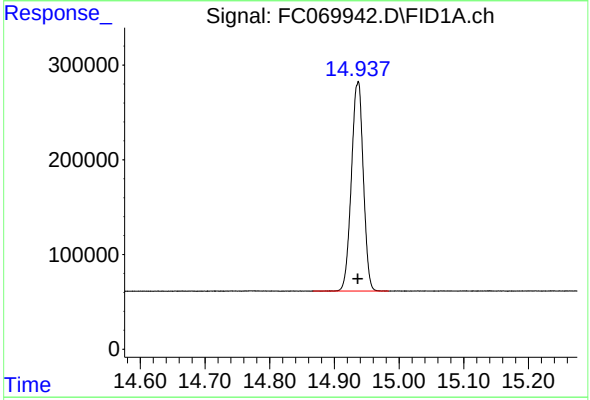
R.T.: 13.078 min
Delta R.T.: 0.000 min
Response: 2637598
Conc: 19.43 ug/ml



#13 n-Docosane (C22)

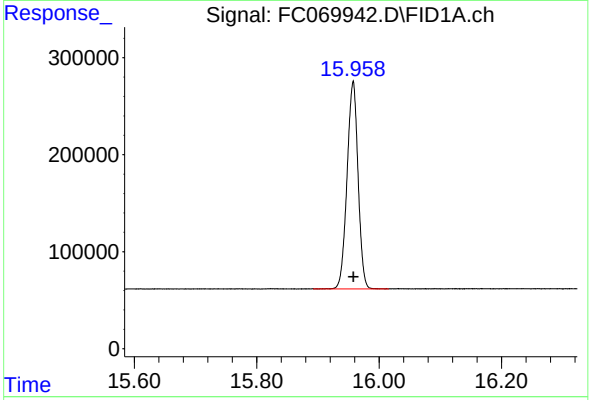
R.T.: 13.832 min
Delta R.T.: 0.000 min
Response: 2942368
Conc: 19.12 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



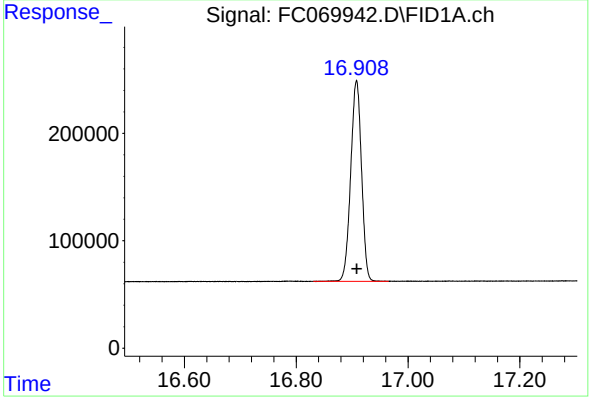
#14 n-Tetracosane (C24)

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



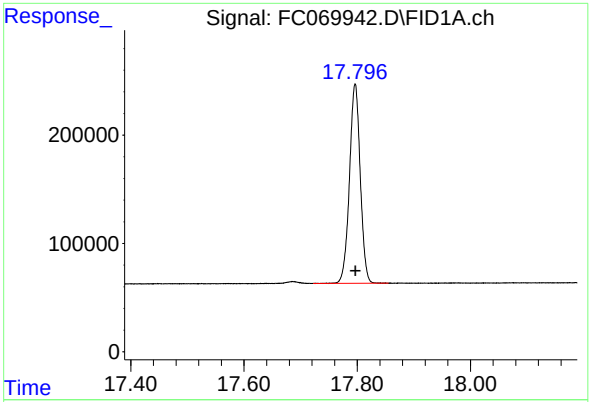
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

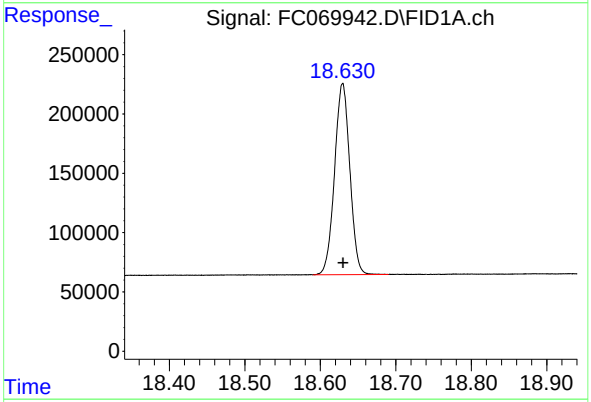
R.T.: 16.908 min
Delta R.T.: 0.000 min
Response: 2509230
Conc: 18.14 ug/ml



#17 n-Tricontane (C30)

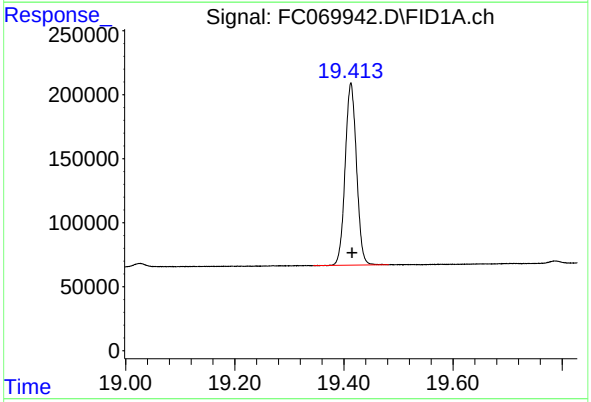
R.T.: 17.796 min
Delta R.T.: 0.000 min
Response: 2433398
Conc: 17.82 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



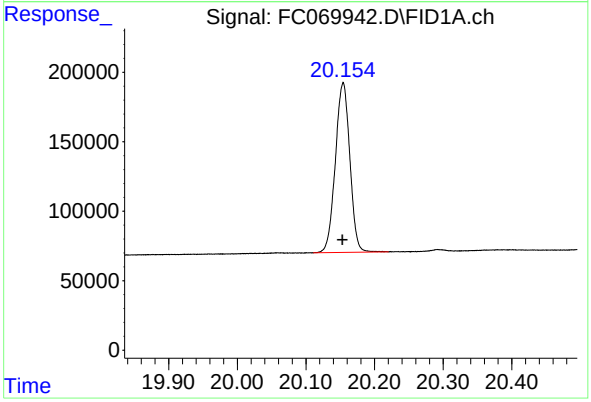
#18 n-Dotriacontane (C32)

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



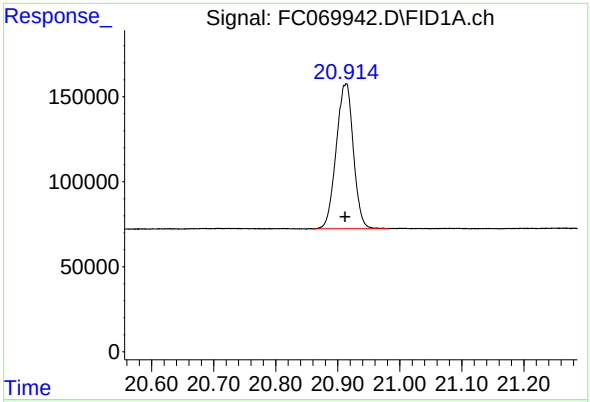
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

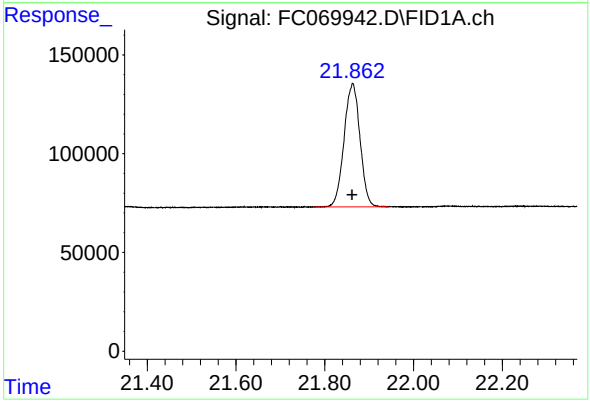
R.T.: 20.154 min
Delta R.T.: 0.000 min
Response: 1789545
Conc: 18.50 ug/ml



#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

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

Inital Calibration Report for SequenceID : FE101725AL

AreaCount

Parameter Range	FE056351.D	FE056352.D	FE056353.D	FE056354.D	FE056355.D	
Aliphatic C9-C12	51362304.000	24484485.000	9331252.000	4992223.000	2535328.000	
Aliphatic C12-C16	35984562.000	17024793.000	6419212.000	3420807.000	1710363.000	
Aliphatic C16-C21	54557902.000	26111407.000	10017652.000	5459302.000	2824749.000	
Aliphatic C21-C28	69668452.000	33858844.000	12770130.000	7257411.000	4218376.000	
Aliphatic C28-C40	72014023.000	39678481.000	14821782.000	8648098.000	5222376.000	
Aliphatic EPH	283587243.000	141158010.000	53360028.000	29777841.000	16511192.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	165077.549333	3.705				
Aliphatic C12-C16	170545.538	4.039				
Aliphatic C16-C21	178637.9839996	4.619				
Aliphatic C21-C28	179089.21	10.876				
Aliphatic C28-C40	138802.798333	15.71				
Aliphatic EPH	162300.6281108	8.197				

Concentration

Parameter Range	FE056351.D	FE056352.D	FE056353.D	FE056354.D	FE056355.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	FE056351.D	FE056352.D	FE056353.D	FE056354.D	FE056355.D	
Aliphatic C9-C12	171207.680000	163229.900000	155520.866666	166407.433333	169021.866666	
Aliphatic C12-C16	179922.810000	170247.930000	160480.300000	171040.350000	171036.300000	
Aliphatic C16-C21	181859.673333	174076.046666	166960.866666	181976.733333	188316.600000	

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

Inital Calibration Report for SequenceID : FE101725AL

Aliphatic C21-C28	174171.130000	169294.220000	159626.625000	181435.275000	210918.800000	
Aliphatic C28-C40	120023.371666	132261.603333	123514.850000	144134.966666	174079.200000	
Aliphatic EPH	157548.468333	156842.233333	148222.300000	165432.450000	183457.688888	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056351.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 17:30
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 17 08:22:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 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)	12.064	20852864	108.984 ug/ml
Spiked Amount	50.000		Recovery =	217.97%
12) S	1-chlorooctadecane (S...	13.498	15819424	110.343 ug/ml
Spiked Amount	50.000		Recovery =	220.69%
	Target Compounds			
1) T	n-Nonane (C9)	3.403	16701525	108.675 ug/ml
2) T	n-Decane (C10)	4.658	17110103	110.237 ug/ml
3) T	A~Naphthalene (C11.7)	6.375	18882703	112.318 ug/ml
4) T	n-Dodecane (C12)	6.832	17550676	111.314 ug/ml
5) T	A~2-methylnaphthalene...	7.477	18456816	115.415 ug/ml
6) T	n-Tetradecane (C14)	8.669	17622151	112.804 ug/ml
7) T	n-Hexadecane (C16)	10.285	18362411	111.462 ug/ml
8) T	n-Octadecane (C18)	11.736	18690483	109.385 ug/ml
10) T	n-Eicosane (C20)	13.050	18055108	108.766 ug/ml
11) T	n-Heneicosane (C21)	13.665	17812311	108.602 ug/ml
13) T	n-Docosane (C22)	14.253	17739457	109.132 ug/ml
14) T	n-Tetracosane (C24)	15.360	17696970	109.148 ug/ml
15) T	n-Hexacosane (C26)	16.384	17350154	109.075 ug/ml
16) T	n-Octacosane (C28)	17.336	16881871	109.090 ug/ml
17) T	n-Tricontane (C30)	18.225	16886172	107.821 ug/ml
18) T	n-Dotriacontane (C32)	19.060	15916843	106.136 ug/ml
19) T	n-Tetratriacontane (C34)	19.844	13701503	101.361 ug/ml
20) T	n-Hexatriacontane (C36)	20.583	10404717	90.355 ug/ml
21) T	n-Octatriacontane (C38)	21.354	8143025	82.504 ug/ml
22) T	n-Tetracontane (C40)	22.329	6961763	81.441 ug/ml

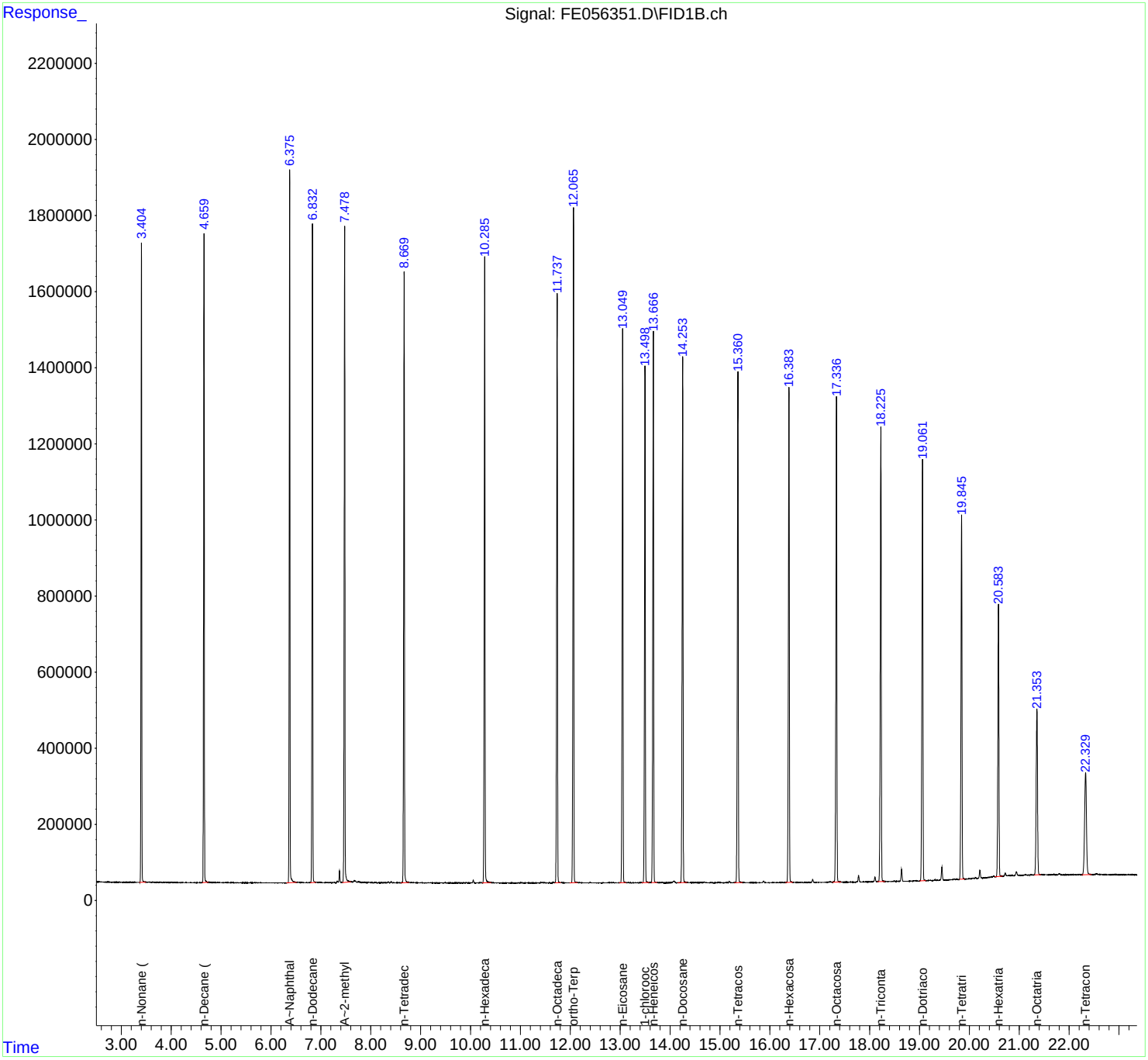
(f)=RT Delta > 1/2 Window (m)=manual int.

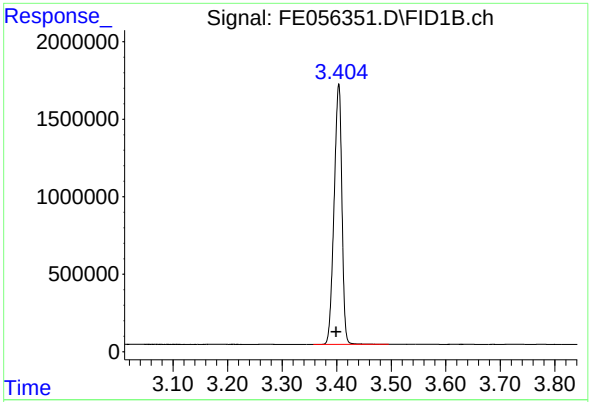
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056351.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 17:30
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 17 08:22:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 2025
Response via : Initial Calibration
Integrator: ChemStation

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

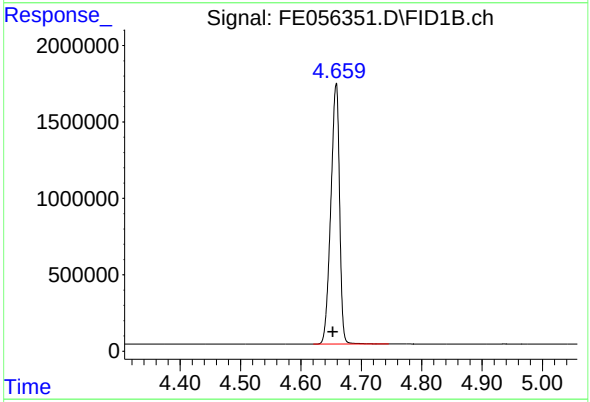




#1 n-Nonane (C9)

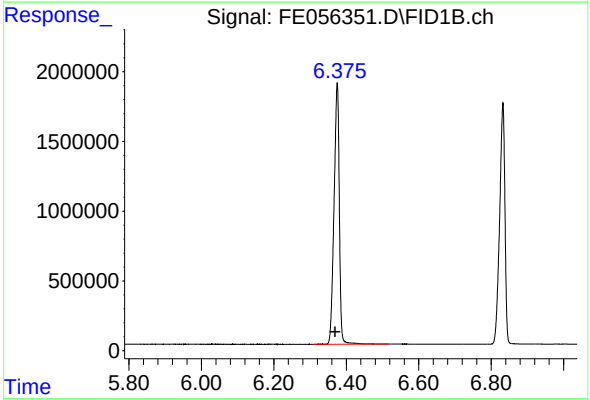
R.T.: 3.403 min
Delta R.T.: 0.004 min
Response: 16701525
Conc: 108.68 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



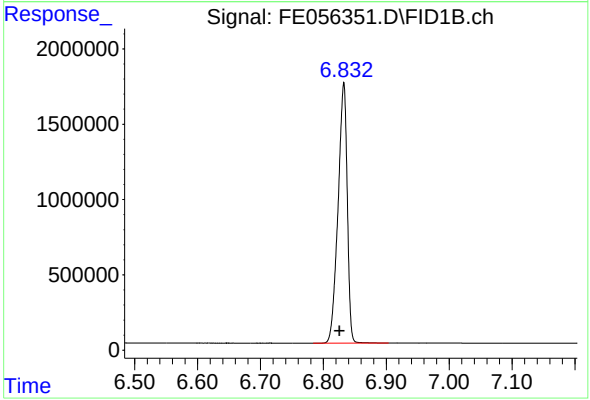
#2 n-Decane (C10)

R.T.: 4.658 min
Delta R.T.: 0.006 min
Response: 17110103
Conc: 110.24 ug/ml



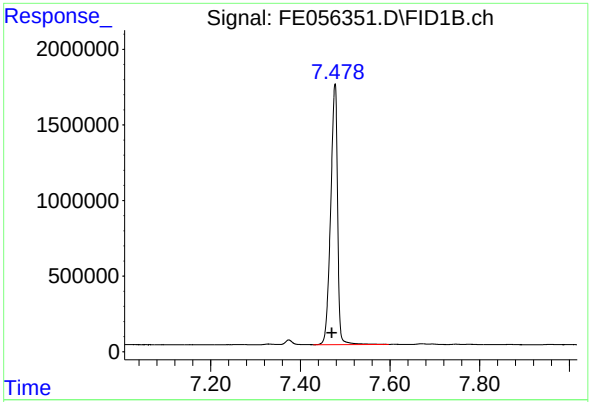
#3 A~Naphthalene (C11.7)

R.T.: 6.375 min
Delta R.T.: 0.006 min
Response: 18882703
Conc: 112.32 ug/ml



#4 n-Dodecane (C12)

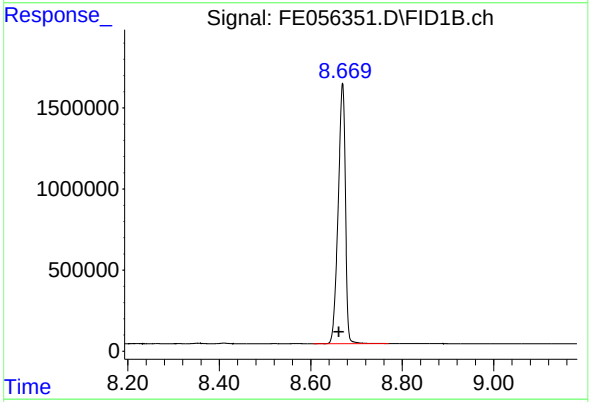
R.T.: 6.832 min
Delta R.T.: 0.007 min
Response: 17550676
Conc: 111.31 ug/ml



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

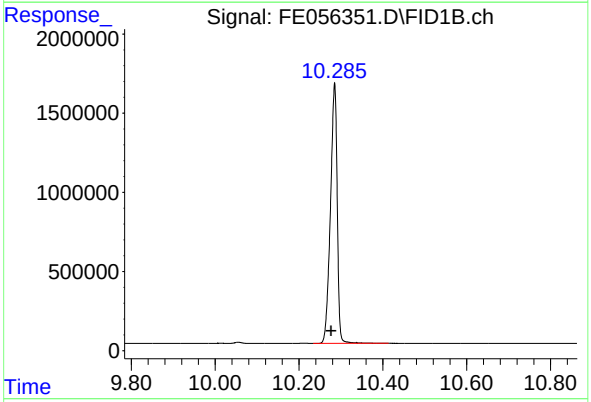
R.T.: 7.477 min
Delta R.T.: 0.007 min
Response: 18456816
Conc: 115.41 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



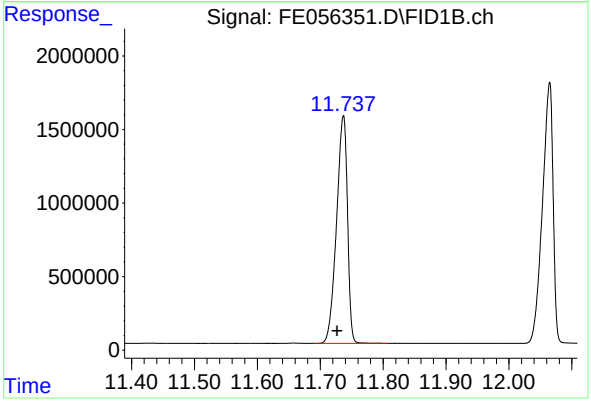
#6 n-Tetradecane (C14)

R.T.: 8.669 min
Delta R.T.: 0.008 min
Response: 17622151
Conc: 112.80 ug/ml



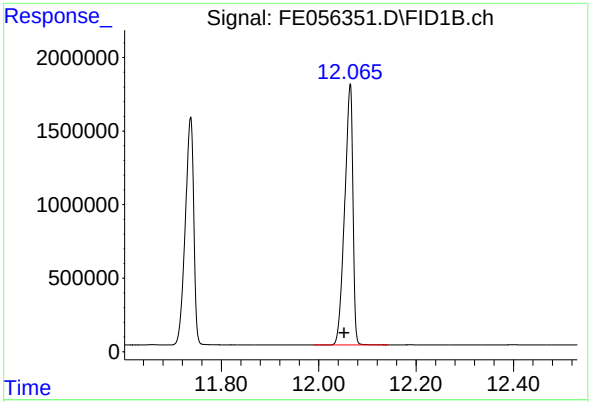
#7 n-Hexadecane (C16)

R.T.: 10.285 min
Delta R.T.: 0.008 min
Response: 18362411
Conc: 111.46 ug/ml



#8 n-Octadecane (C18)

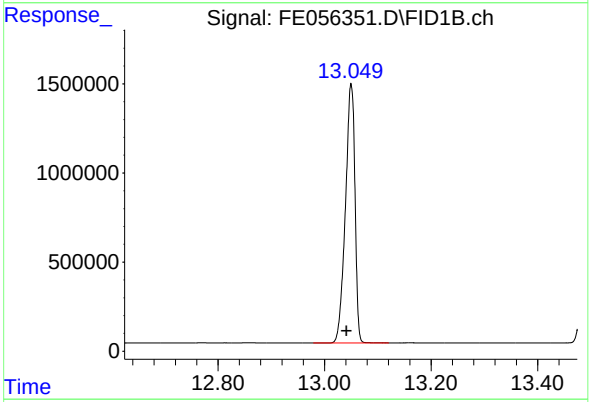
R.T.: 11.736 min
Delta R.T.: 0.010 min
Response: 18690483
Conc: 109.39 ug/ml



#9 ortho-Terphenyl (SURR)

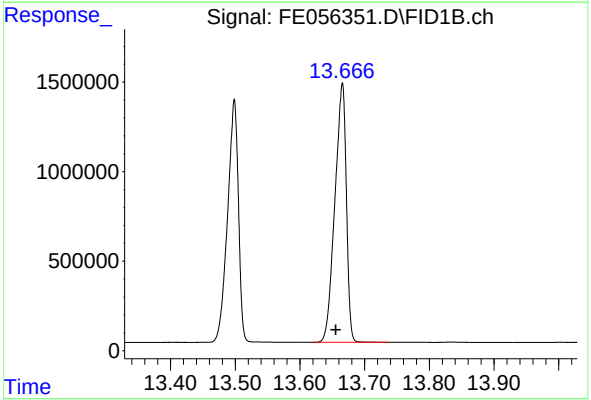
R.T.: 12.064 min
Delta R.T.: 0.012 min
Response: 20852864
Conc: 108.98 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



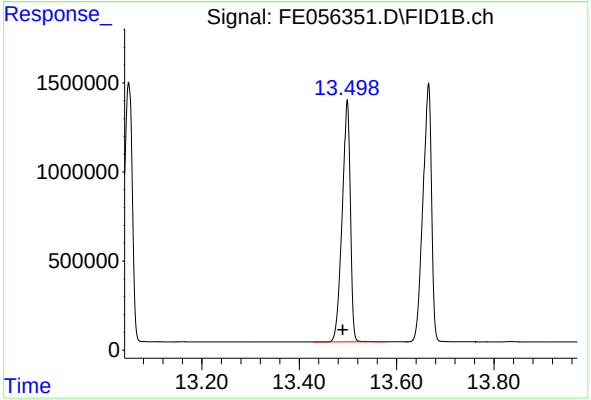
#10 n-Eicosane (C20)

R.T.: 13.050 min
Delta R.T.: 0.009 min
Response: 18055108
Conc: 108.77 ug/ml



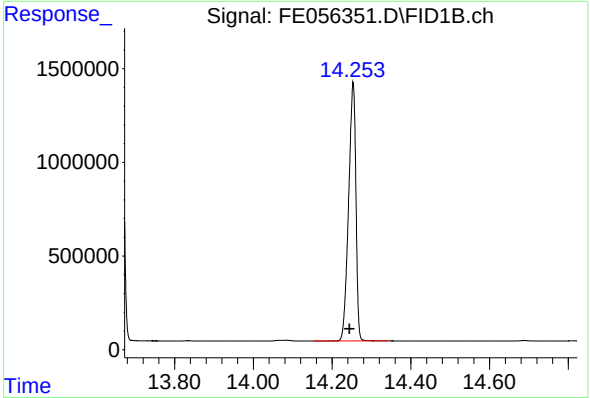
#11 n-Heneicosane (C21)

R.T.: 13.665 min
Delta R.T.: 0.010 min
Response: 17812311
Conc: 108.60 ug/ml



#12 1-chlorooctadecane (SURR)

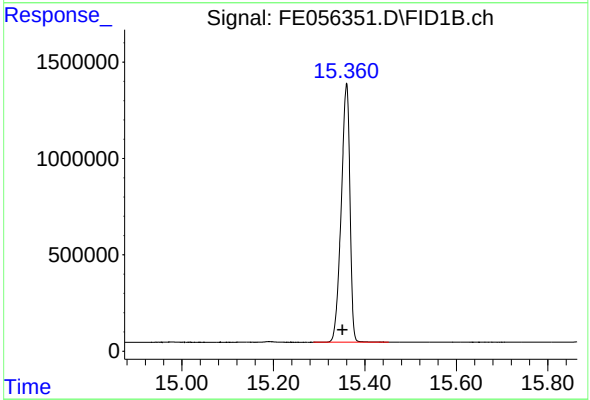
R.T.: 13.498 min
Delta R.T.: 0.009 min
Response: 15819424
Conc: 110.34 ug/ml



#13 n-Docosane (C22)

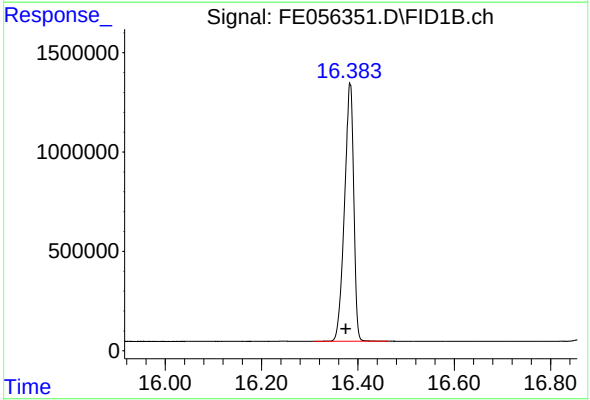
R.T.: 14.253 min
Delta R.T.: 0.009 min
Response: 17739457
Conc: 109.13 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



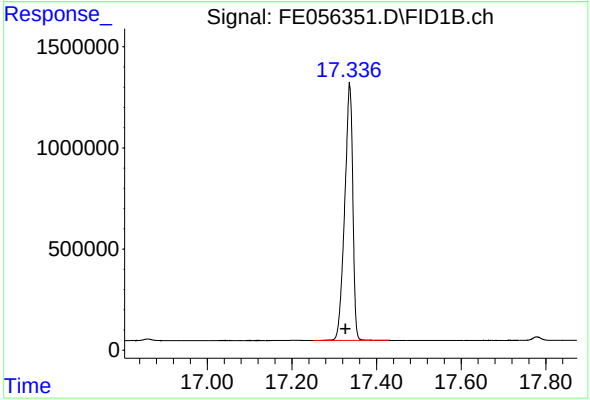
#14 n-Tetracosane (C24)

R.T.: 15.360 min
Delta R.T.: 0.009 min
Response: 17696970
Conc: 109.15 ug/ml



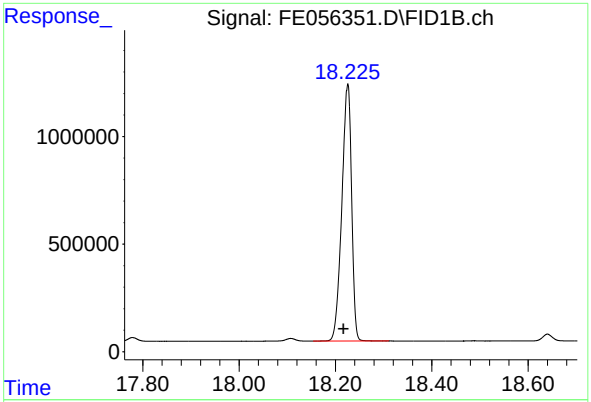
#15 n-Hexacosane (C26)

R.T.: 16.384 min
Delta R.T.: 0.009 min
Response: 17350154
Conc: 109.08 ug/ml



#16 n-Octacosane (C28)

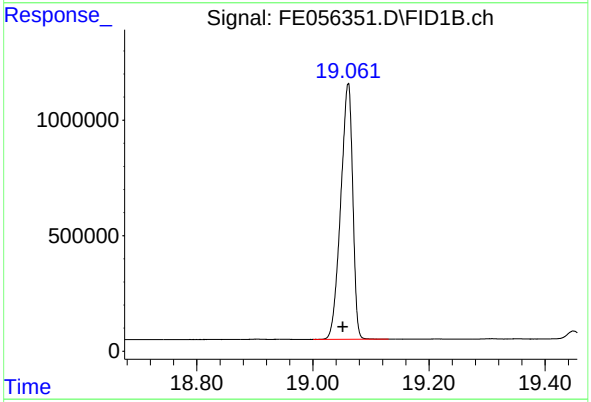
R.T.: 17.336 min
Delta R.T.: 0.010 min
Response: 16881871
Conc: 109.09 ug/ml



#17 n-Tricontane (C30)

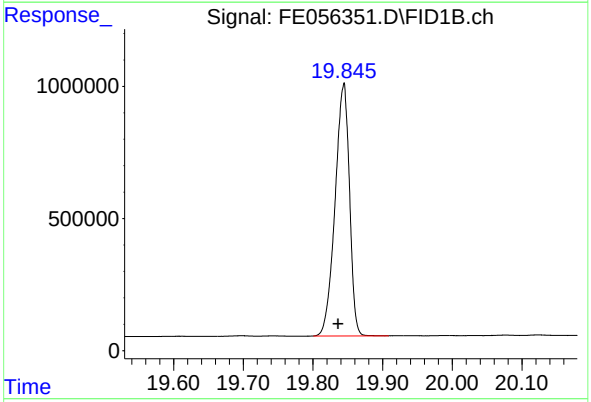
R.T.: 18.225 min
Delta R.T.: 0.008 min
Response: 16886172
Conc: 107.82 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



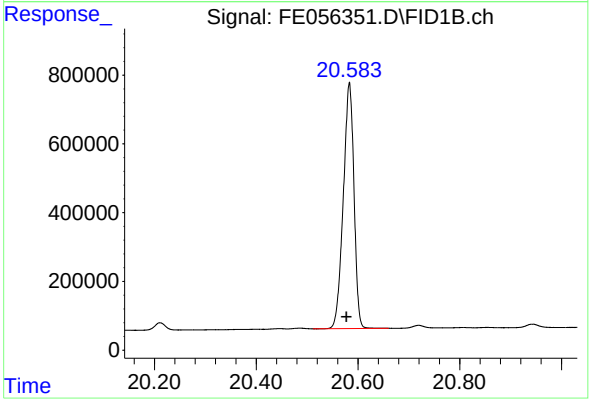
#18 n-Dotriacontane (C32)

R.T.: 19.060 min
Delta R.T.: 0.009 min
Response: 15916843
Conc: 106.14 ug/ml



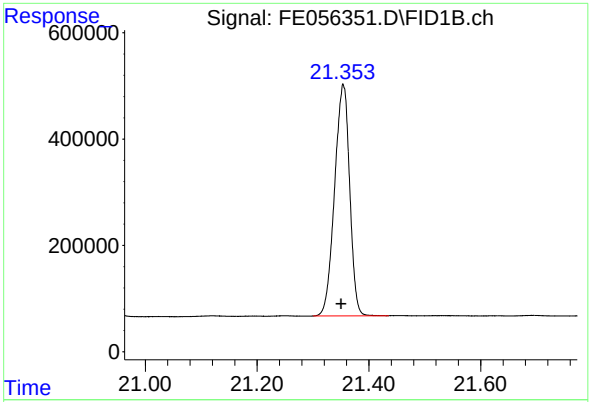
#19 n-Tetratriacontane (C34)

R.T.: 19.844 min
Delta R.T.: 0.008 min
Response: 13701503
Conc: 101.36 ug/ml



#20 n-Hexatriacontane (C36)

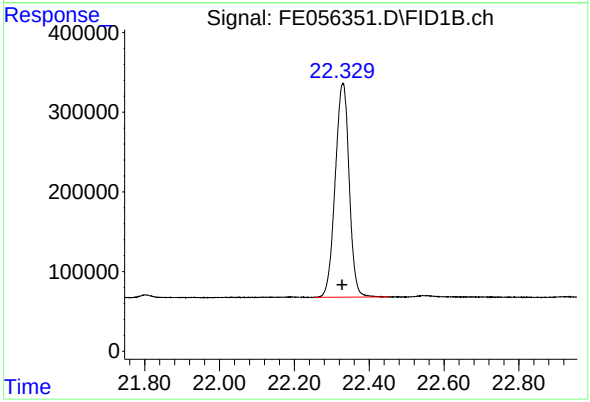
R.T.: 20.583 min
Delta R.T.: 0.005 min
Response: 10404717
Conc: 90.35 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.354 min
Delta R.T.: 0.004 min
Response: 8143025
Conc: 82.50 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.329 min
Delta R.T.: 0.002 min
Response: 6961763
Conc: 81.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056351.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 17:30
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 101725.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	3.403	3.357	3.495	BB	1683786	16701525	80.09%	4.670%
2	4.658	4.620	4.745	BB	1714211	17110103	82.05%	4.785%
3	6.375	6.309	6.517	BB	1884447	18882703	90.55%	5.280%
4	6.832	6.784	6.904	BB	1725004	17550676	84.16%	4.908%
5	7.477	7.429	7.597	PV	1726114	18456816	88.51%	5.161%
6	8.669	8.605	8.770	BB	1605496	17622151	84.51%	4.928%
7	10.285	10.234	10.414	BB	1654045	18362411	88.06%	5.135%
8	11.736	11.689	11.809	BB	1552371	18690483	89.63%	5.227%
9	12.064	11.989	12.144	BB	1762902	20852864	100.00%	5.831%
10	13.050	12.979	13.120	BB	1453303	18055108	86.58%	5.049%
11	13.498	13.429	13.584	BB	1362035	15819424	75.86%	4.424%
12	13.665	13.620	13.737	BB	1451960	17812311	85.42%	4.981%
13	14.253	14.152	14.344	BB	1383139	17739457	85.07%	4.961%
14	15.360	15.287	15.452	BB	1349086	17696970	84.87%	4.949%
15	16.384	16.307	16.464	BB	1297583	17350154	83.20%	4.852%
16	17.336	17.250	17.429	BB	1261168	16881871	80.96%	4.721%
17	18.225	18.154	18.310	BB	1192334	16886172	80.98%	4.722%
18	19.060	19.000	19.130	BB	1107431	15916843	76.33%	4.451%
19	19.844	19.800	19.909	BB	948672	13701503	65.71%	3.832%
20	20.583	20.512	20.660	BB	716890	10404717	49.90%	2.910%
21	21.354	21.300	21.435	BB	436151	8143025	39.05%	2.277%
22	22.329	22.250	22.452	BB	268062	6961763	33.39%	1.947%

Sum of corrected areas: 357599050

Aliphatic EPH 101725.M Fri Oct 17 08:32:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056352.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 18:00
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 17 08:22:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 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)	12.057	9944859	51.975 ug/ml
Spiked Amount	50.000		Recovery =	103.95%
12)	S 1-chlorooctadecane (S...	13.493	7535401	52.561 ug/ml
Spiked Amount	50.000		Recovery =	105.12%
	Target Compounds			
1)	T n-Nonane (C9)	3.401	8027434	52.234 ug/ml
2)	T n-Decane (C10)	4.654	8151590	52.519 ug/ml
3)	T A~Naphthalene (C11.7)	6.371	8930796	53.122 ug/ml
4)	T n-Dodecane (C12)	6.828	8305461	52.677 ug/ml
5)	T A~2-methylnaphthalene...	7.472	8709305	54.461 ug/ml
6)	T n-Tetradecane (C14)	8.665	8312944	53.213 ug/ml
7)	T n-Hexadecane (C16)	10.280	8711849	52.882 ug/ml
8)	T n-Octadecane (C18)	11.730	8942054	52.333 ug/ml
10)	T n-Eicosane (C20)	13.044	8645421	52.081 ug/ml
11)	T n-Heneicosane (C21)	13.659	8523932	51.971 ug/ml
13)	T n-Docosane (C22)	14.247	8531126	52.483 ug/ml
14)	T n-Tetracosane (C24)	15.353	8610842	53.108 ug/ml
15)	T n-Hexacosane (C26)	16.378	8452135	53.136 ug/ml
16)	T n-Octacosane (C28)	17.330	8264741	53.406 ug/ml
17)	T n-Tricontane (C30)	18.220	8292000	52.946 ug/ml
18)	T n-Dotriacontane (C32)	19.054	7932430	52.895 ug/ml
19)	T n-Tetratriacontane (C34)	19.840	7118725	52.663 ug/ml
20)	T n-Hexatriacontane (C36)	20.580	6063460	52.655 ug/ml
21)	T n-Octatriacontane (C38)	21.350	5354430	54.251 ug/ml
22)	T n-Tetracontane (C40)	22.327	4917436	57.525 ug/ml

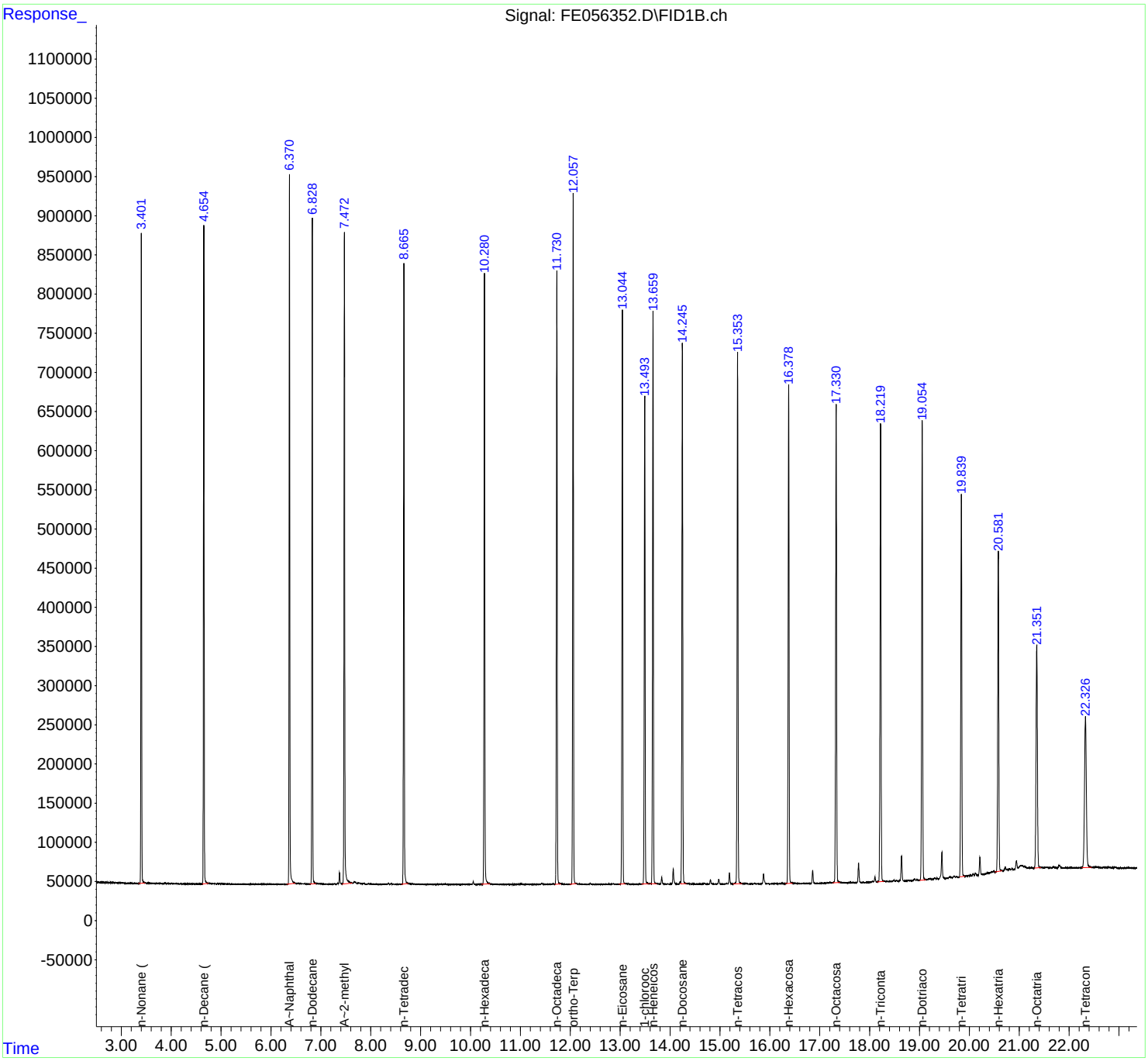
(f)=RT Delta > 1/2 Window (m)=manual int.

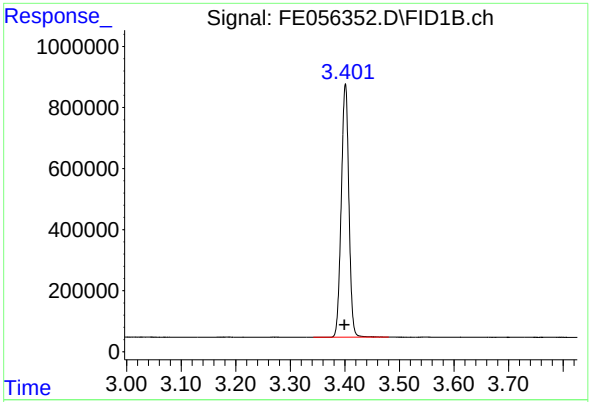
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056352.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 18:00
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 17 08:22:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 2025
Response via : Initial Calibration
Integrator: ChemStation

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

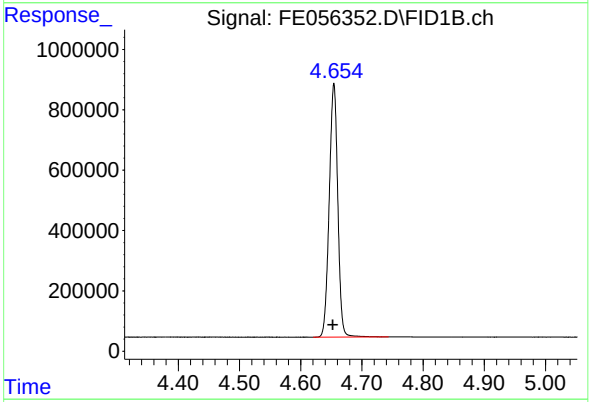




#1 n-Nonane (C9)

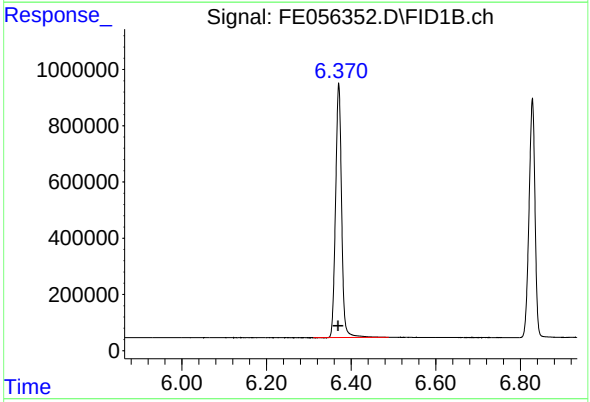
R.T.: 3.401 min
Delta R.T.: 0.002 min
Response: 8027434
Conc: 52.23 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



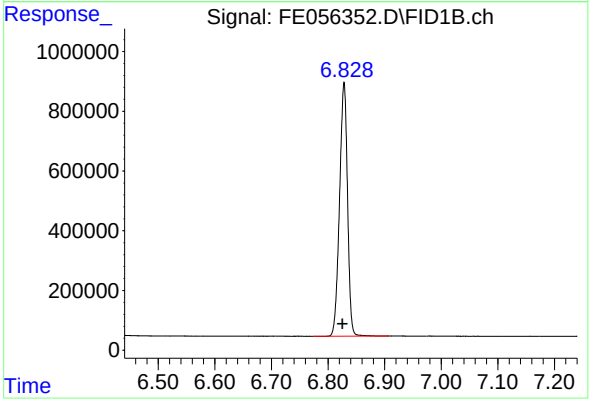
#2 n-Decane (C10)

R.T.: 4.654 min
Delta R.T.: 0.002 min
Response: 8151590
Conc: 52.52 ug/ml



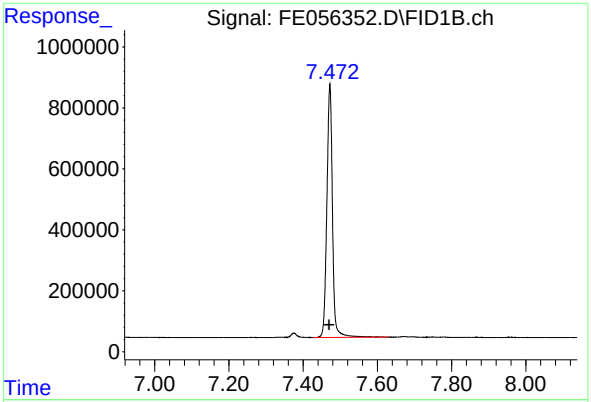
#3 A~Naphthalene (C11.7)

R.T.: 6.371 min
Delta R.T.: 0.002 min
Response: 8930796
Conc: 53.12 ug/ml



#4 n-Dodecane (C12)

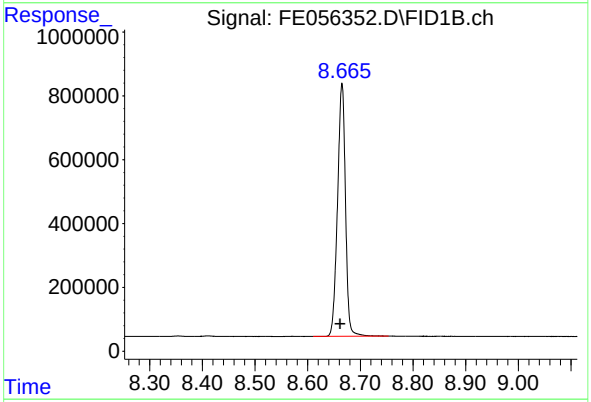
R.T.: 6.828 min
Delta R.T.: 0.003 min
Response: 8305461
Conc: 52.68 ug/ml



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

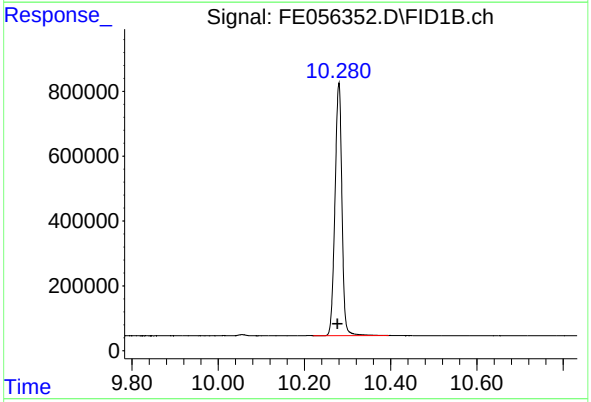
R.T.: 7.472 min
Delta R.T.: 0.002 min
Response: 8709305
Conc: 54.46 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



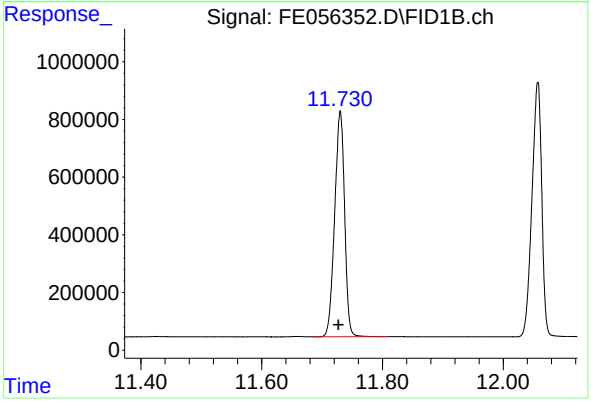
#6 n-Tetradecane (C14)

R.T.: 8.665 min
Delta R.T.: 0.003 min
Response: 8312944
Conc: 53.21 ug/ml



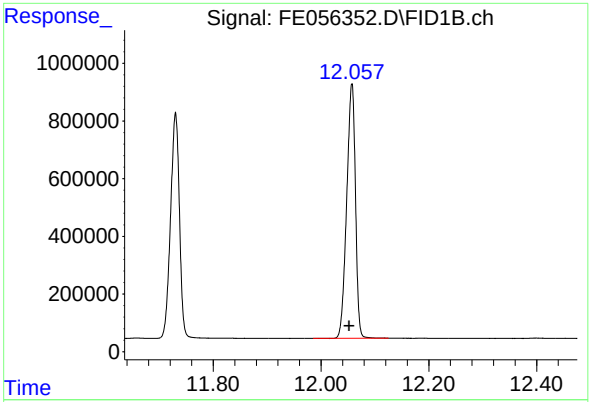
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.003 min
Response: 8711849
Conc: 52.88 ug/ml



#8 n-Octadecane (C18)

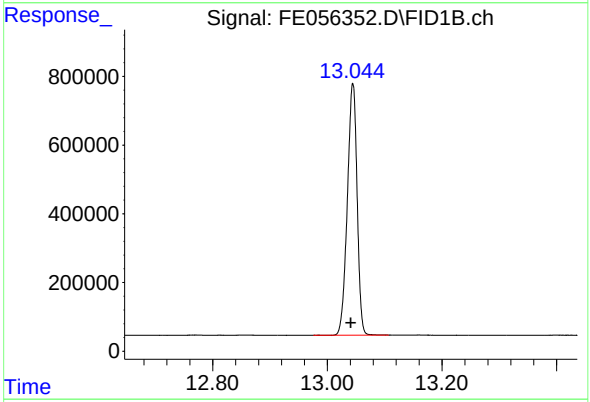
R.T.: 11.730 min
Delta R.T.: 0.003 min
Response: 8942054
Conc: 52.33 ug/ml



#9 ortho-Terphenyl (SURR)

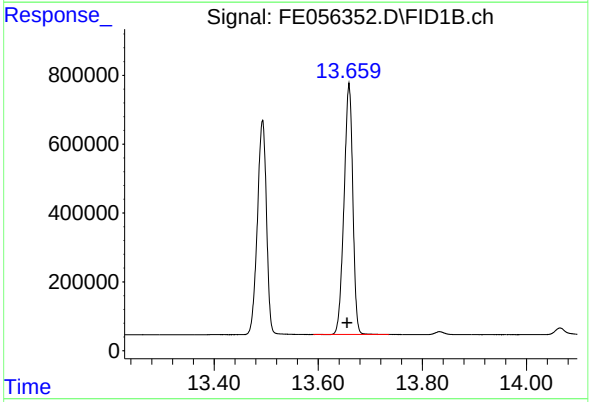
R.T.: 12.057 min
Delta R.T.: 0.005 min
Response: 9944859
Conc: 51.98 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



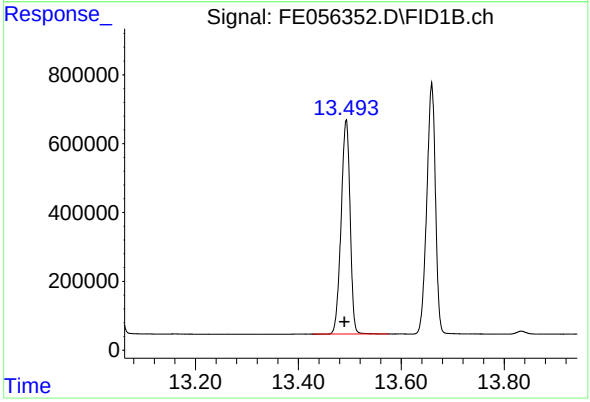
#10 n-Eicosane (C20)

R.T.: 13.044 min
Delta R.T.: 0.003 min
Response: 8645421
Conc: 52.08 ug/ml



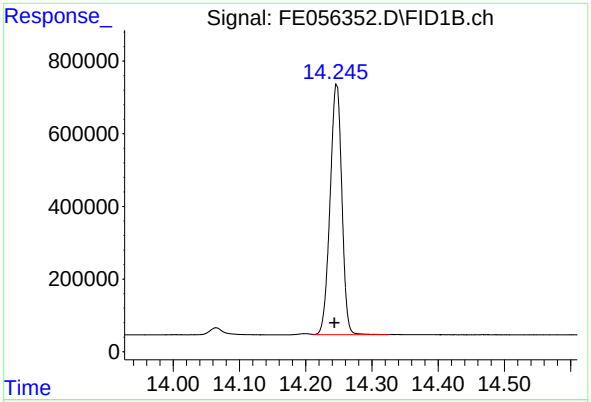
#11 n-Heneicosane (C21)

R.T.: 13.659 min
Delta R.T.: 0.004 min
Response: 8523932
Conc: 51.97 ug/ml



#12 1-chlorooctadecane (SURR)

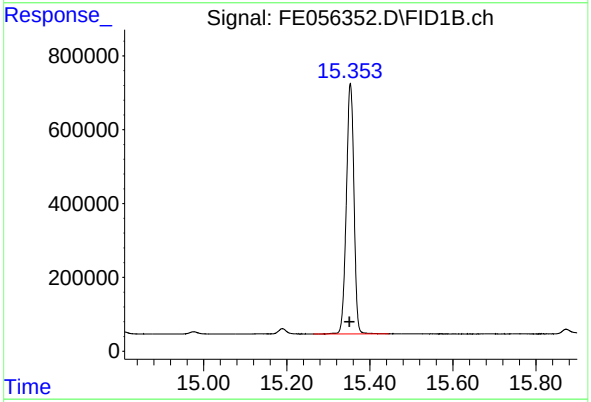
R.T.: 13.493 min
Delta R.T.: 0.003 min
Response: 7535401
Conc: 52.56 ug/ml



#13 n-Docosane (C22)

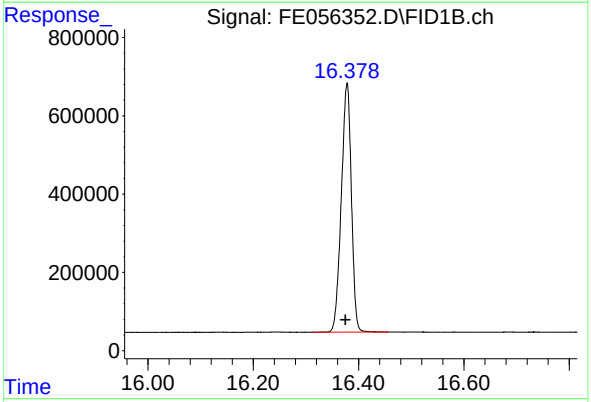
R.T.: 14.247 min
Delta R.T.: 0.003 min
Response: 8531126
Conc: 52.48 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



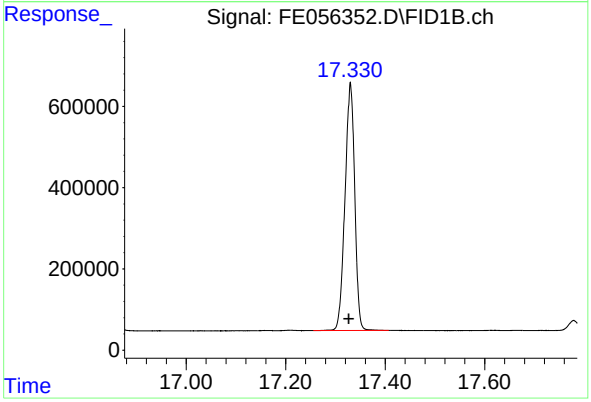
#14 n-Tetracosane (C24)

R.T.: 15.353 min
Delta R.T.: 0.003 min
Response: 8610842
Conc: 53.11 ug/ml



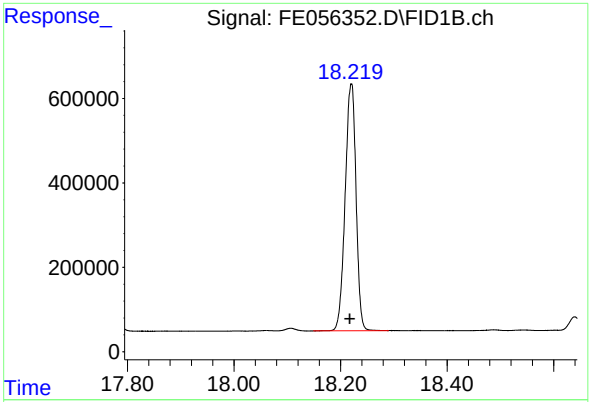
#15 n-Hexacosane (C26)

R.T.: 16.378 min
Delta R.T.: 0.003 min
Response: 8452135
Conc: 53.14 ug/ml



#16 n-Octacosane (C28)

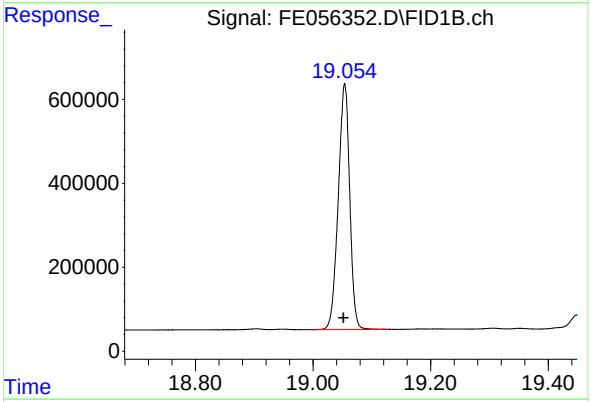
R.T.: 17.330 min
Delta R.T.: 0.003 min
Response: 8264741
Conc: 53.41 ug/ml



#17 n-Tricontane (C30)

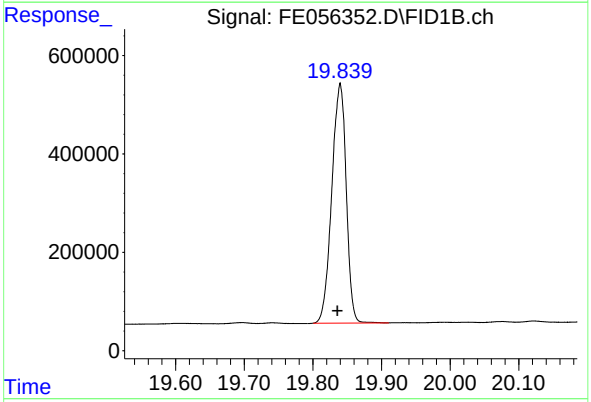
R.T.: 18.220 min
Delta R.T.: 0.003 min
Response: 8292000
Conc: 52.95 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



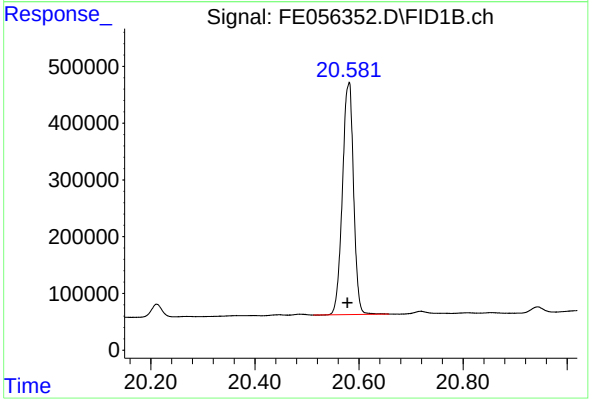
#18 n-Dotriacontane (C32)

R.T.: 19.054 min
Delta R.T.: 0.002 min
Response: 7932430
Conc: 52.89 ug/ml



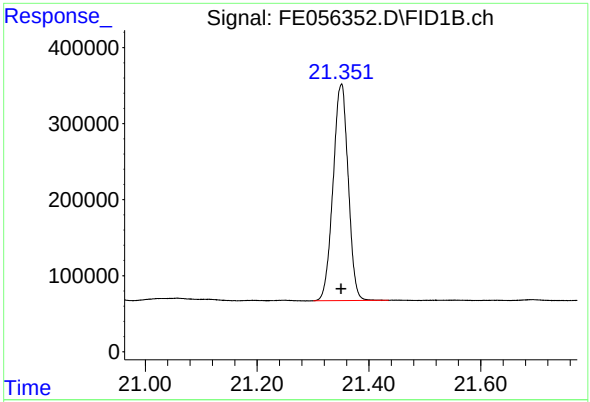
#19 n-Tetratriacontane (C34)

R.T.: 19.840 min
Delta R.T.: 0.004 min
Response: 7118725
Conc: 52.66 ug/ml



#20 n-Hexatriacontane (C36)

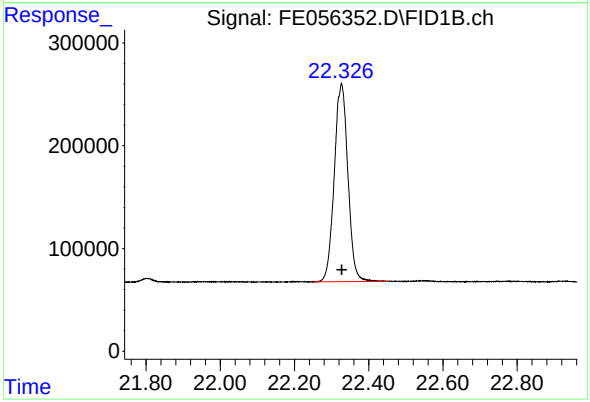
R.T.: 20.580 min
Delta R.T.: 0.002 min
Response: 6063460
Conc: 52.66 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.350 min
Delta R.T.: 0.000 min
Response: 5354430
Conc: 54.25 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.327 min
Delta R.T.: 0.000 min
Response: 4917436
Conc: 57.53 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056352.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 18:00
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 101725.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	3.401	3.342	3.480	BB	828928	8027434	80.72%	4.554%
2	4.654	4.620	4.744	BB	838506	8151590	81.97%	4.624%
3	6.371	6.310	6.489	BB	904873	8930796	89.80%	5.066%
4	6.828	6.774	6.907	BB	852789	8305461	83.52%	4.712%
5	7.472	7.427	7.630	BB	830812	8709305	87.58%	4.941%
6	8.665	8.610	8.754	BB	794171	8312944	83.59%	4.716%
7	10.280	10.220	10.395	BB	782719	8711849	87.60%	4.942%
8	11.730	11.685	11.810	BB	783459	8942054	89.92%	5.073%
9	12.057	11.985	12.125	BB	884029	9944859	100.00%	5.642%
10	13.044	12.975	13.107	BB	733724	8645421	86.93%	4.904%
11	13.493	13.429	13.575	BB	622761	7535401	75.77%	4.275%
12	13.659	13.590	13.735	BB	726177	8523932	85.71%	4.835%
13	14.247	14.211	14.325	VB	686649	8531126	85.78%	4.840%
14	15.353	15.264	15.445	BB	677307	8610842	86.59%	4.885%
15	16.378	16.314	16.457	BB	639959	8452135	84.99%	4.795%
16	17.330	17.255	17.407	BB	609802	8264741	83.11%	4.688%
17	18.220	18.149	18.290	BB	585126	8292000	83.38%	4.704%
18	19.054	19.000	19.129	BB	586257	7932430	79.76%	4.500%
19	19.840	19.800	19.910	BB	488157	7118725	71.58%	4.038%
20	20.580	20.512	20.657	BB	407193	6063460	60.97%	3.440%
21	21.350	21.300	21.435	BB	284486	5354430	53.84%	3.037%
22	22.327	22.250	22.454	BB	192878	4917436	49.45%	2.790%

Sum of corrected areas: 176278372

Aliphatic EPH 101725.M Fri Oct 17 08:33:53 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056353.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 18:30
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 17 08:23:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 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)	12.052	3826772	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12)	S 1-chlorooctadecane (S...	13.489	2867313	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1)	T n-Nonane (C9)	3.399	3073653	20.000 ug/ml
2)	T n-Decane (C10)	4.652	3104239	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	6.369	3362356	20.000 ug/ml
4)	T n-Dodecane (C12)	6.826	3153360	20.000 ug/ml
5)	T A~2-methylnaphthalene...	7.470	3198353	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.662	3124392	20.000 ug/ml
7)	T n-Hexadecane (C16)	10.277	3294820	20.000 ug/ml
8)	T n-Octadecane (C18)	11.727	3417372	20.000 ug/ml
10)	T n-Eicosane (C20)	13.041	3319985	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.655	3280295	20.000 ug/ml
13)	T n-Docosane (C22)	14.244	3251010	20.000 ug/ml
14)	T n-Tetracosane (C24)	15.351	3242751	20.000 ug/ml
15)	T n-Hexacosane (C26)	16.375	3181322	20.000 ug/ml
16)	T n-Octacosane (C28)	17.327	3095047	20.000 ug/ml
17)	T n-Tricontane (C30)	18.217	3132258	20.000 ug/ml
18)	T n-Dotriacontane (C32)	19.052	2999317	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.836	2703510	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	20.578	2303077	20.000 ug/ml
21)	T n-Octatriacontane (C38)	21.350	1973965	20.000 ug/ml
22)	T n-Tetracontane (C40)	22.327	1709655	20.000 ug/ml

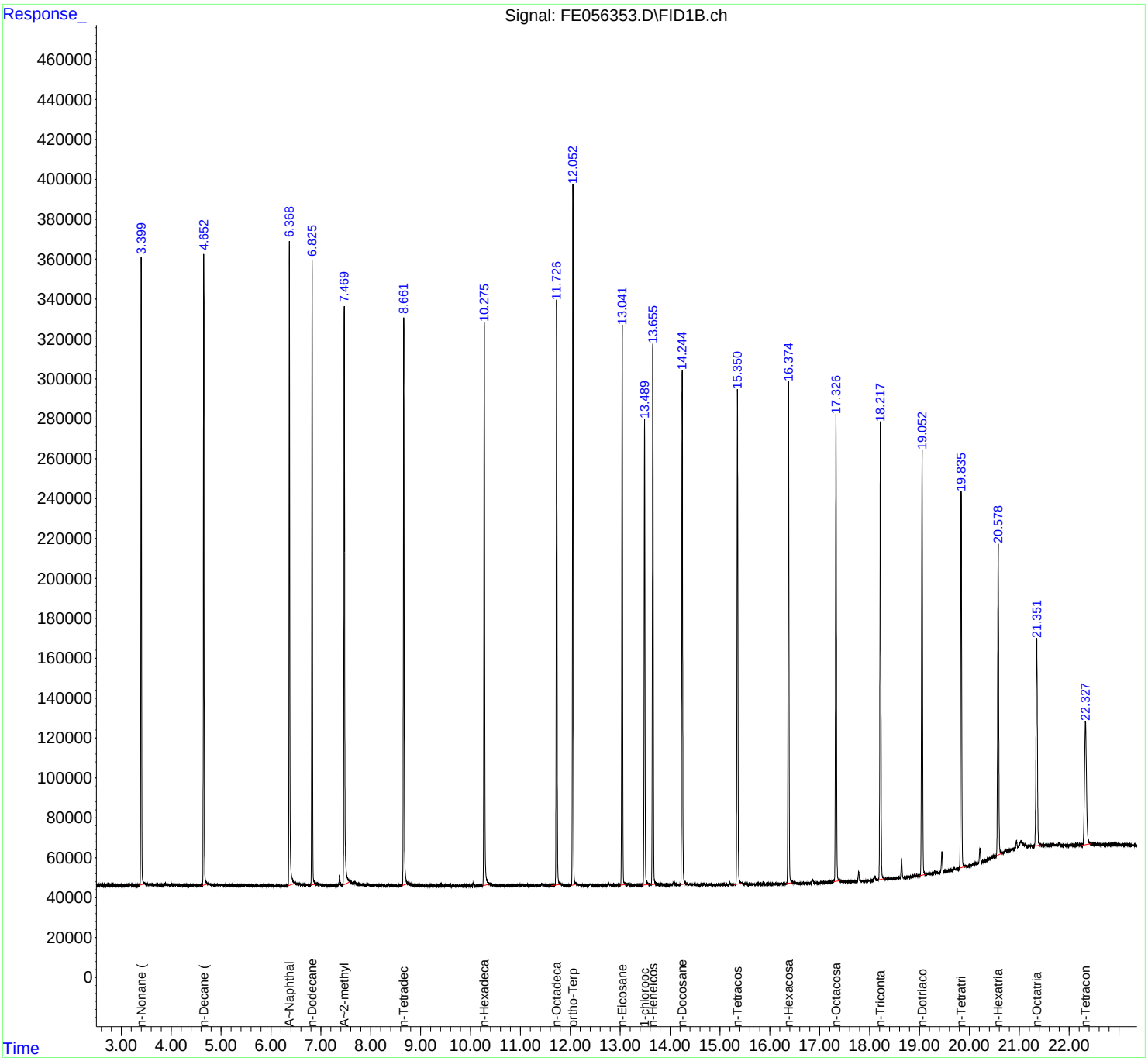
(f)=RT Delta > 1/2 Window (m)=manual int.

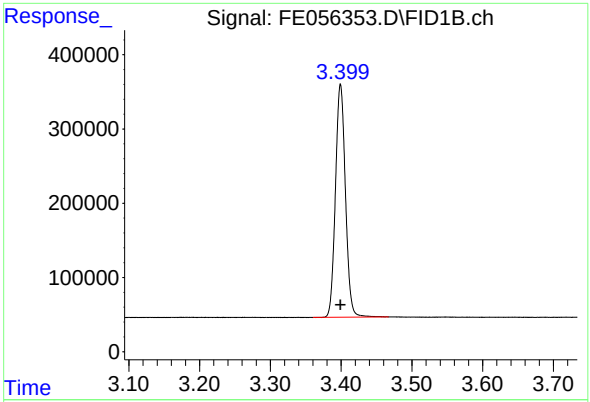
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056353.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 18:30
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 17 08:23:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 2025
Response via : Initial Calibration
Integrator: ChemStation

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

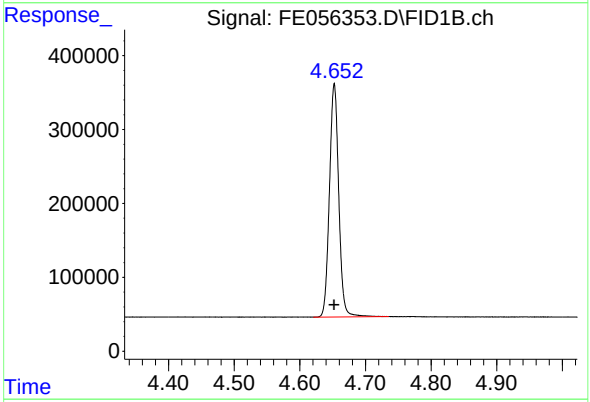




#1 n-Nonane (C9)

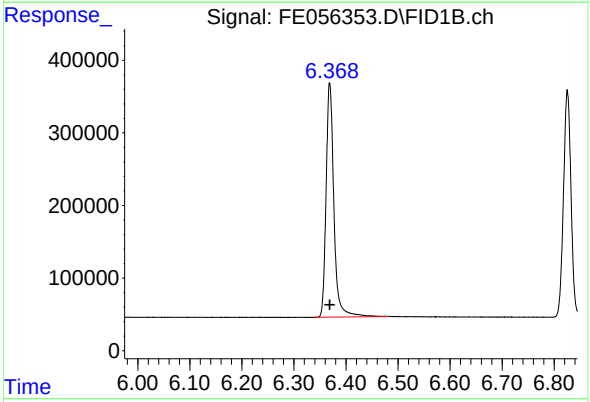
R.T.: 3.399 min
Delta R.T.: 0.000 min
Response: 3073653
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



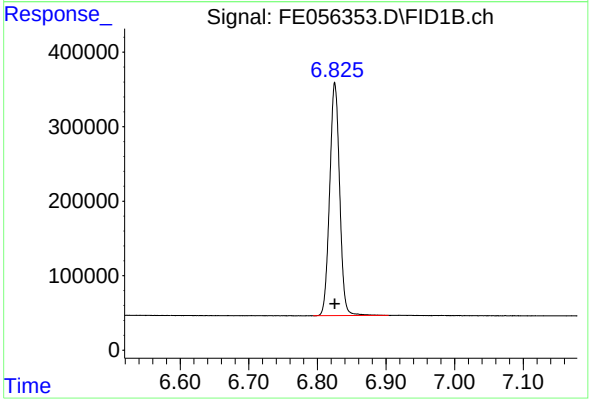
#2 n-Decane (C10)

R.T.: 4.652 min
Delta R.T.: 0.000 min
Response: 3104239
Conc: 20.00 ug/ml



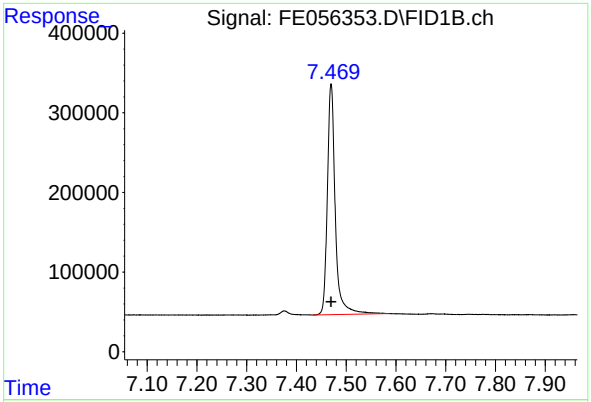
#3 A~Naphthalene (C11.7)

R.T.: 6.369 min
Delta R.T.: 0.000 min
Response: 3362356
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

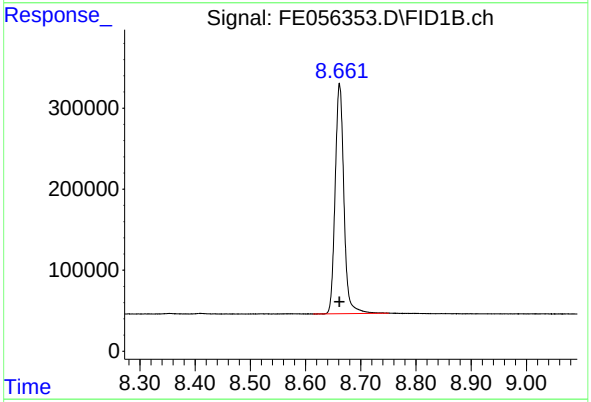
R.T.: 6.826 min
Delta R.T.: 0.000 min
Response: 3153360
Conc: 20.00 ug/ml



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

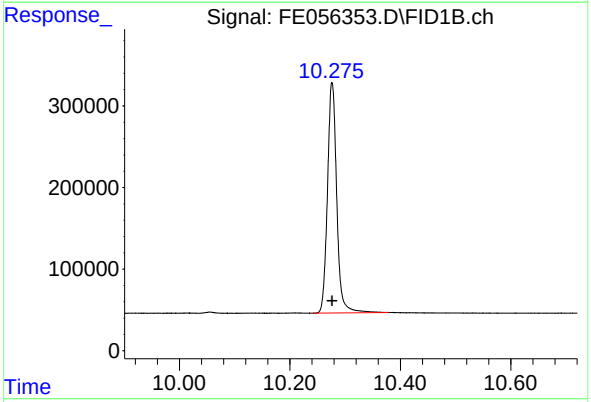
R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 3198353
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



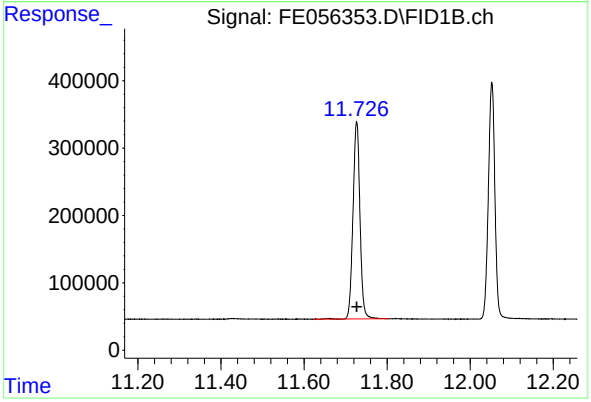
#6 n-Tetradecane (C14)

R.T.: 8.662 min
Delta R.T.: 0.000 min
Response: 3124392
Conc: 20.00 ug/ml



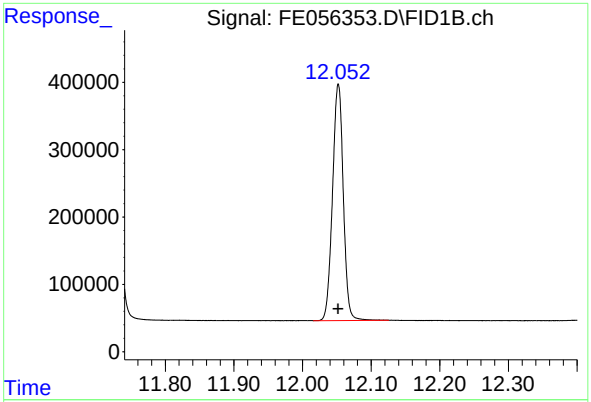
#7 n-Hexadecane (C16)

R.T.: 10.277 min
Delta R.T.: 0.000 min
Response: 3294820
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

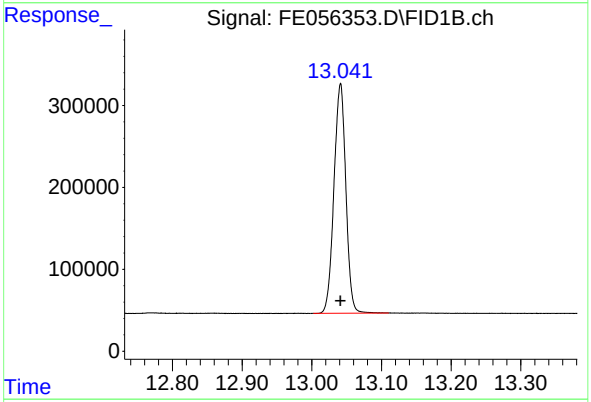
R.T.: 11.727 min
Delta R.T.: 0.000 min
Response: 3417372
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

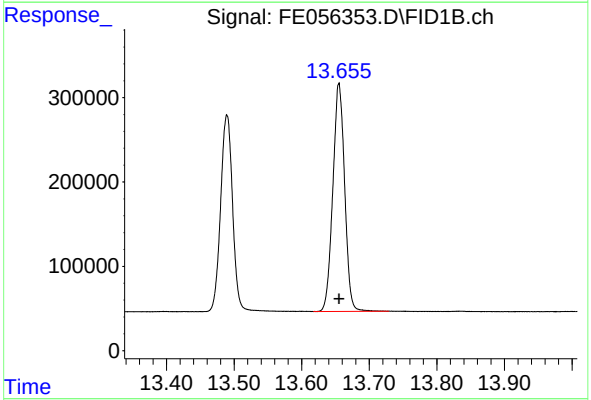
R.T.: 12.052 min
Delta R.T.: 0.000 min
Response: 3826772
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



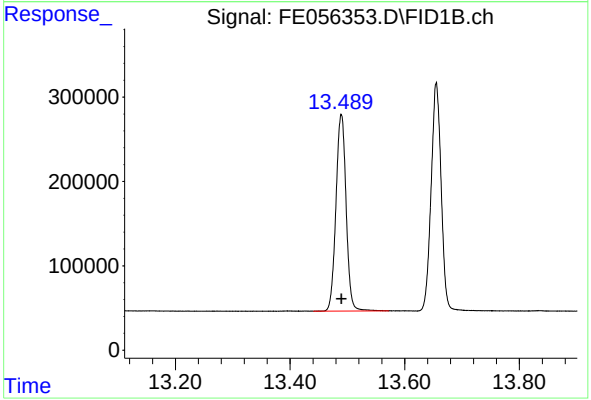
#10 n-Eicosane (C20)

R.T.: 13.041 min
Delta R.T.: 0.000 min
Response: 3319985
Conc: 20.00 ug/ml



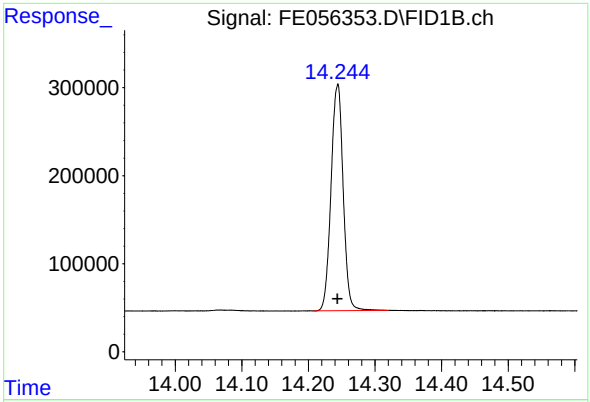
#11 n-Heneicosane (C21)

R.T.: 13.655 min
Delta R.T.: 0.000 min
Response: 3280295
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

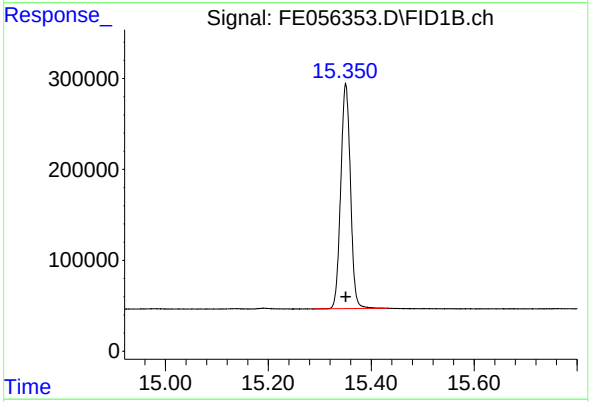
R.T.: 13.489 min
Delta R.T.: 0.000 min
Response: 2867313
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

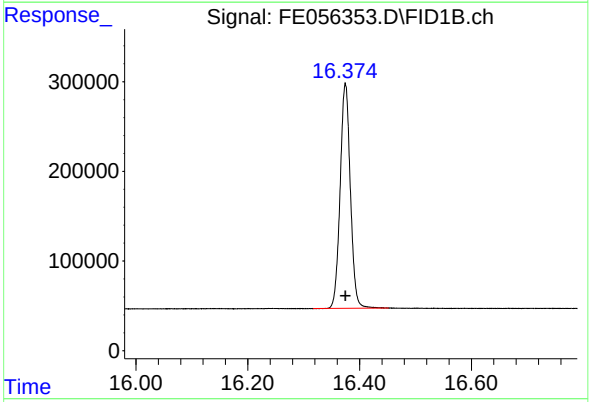
R.T.: 14.244 min
Delta R.T.: 0.000 min
Response: 3251010
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



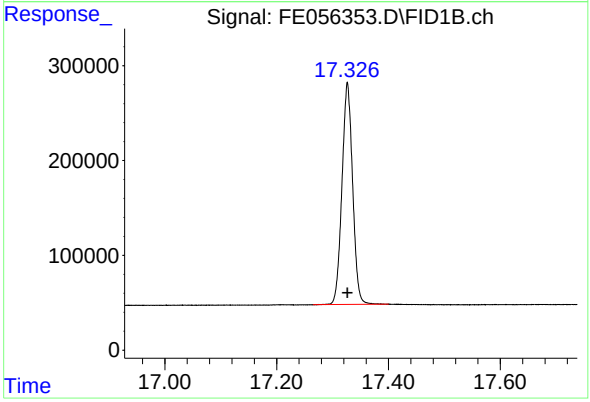
#14 n-Tetracosane (C24)

R.T.: 15.351 min
Delta R.T.: 0.000 min
Response: 3242751
Conc: 20.00 ug/ml



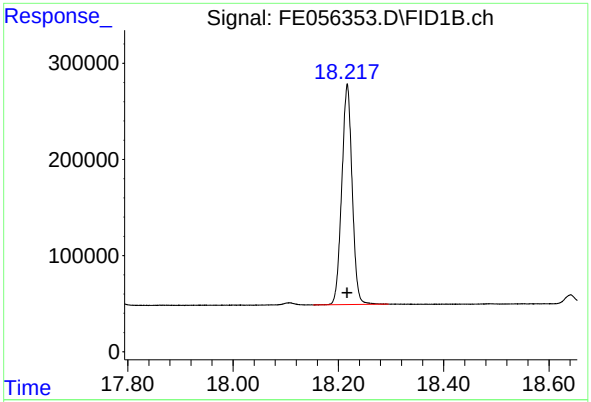
#15 n-Hexacosane (C26)

R.T.: 16.375 min
Delta R.T.: 0.000 min
Response: 3181322
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

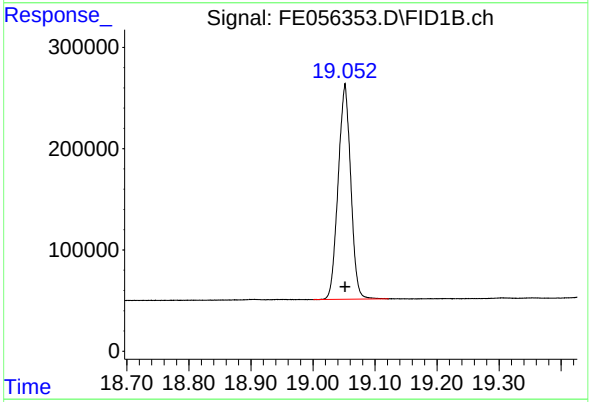
R.T.: 17.327 min
Delta R.T.: 0.000 min
Response: 3095047
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

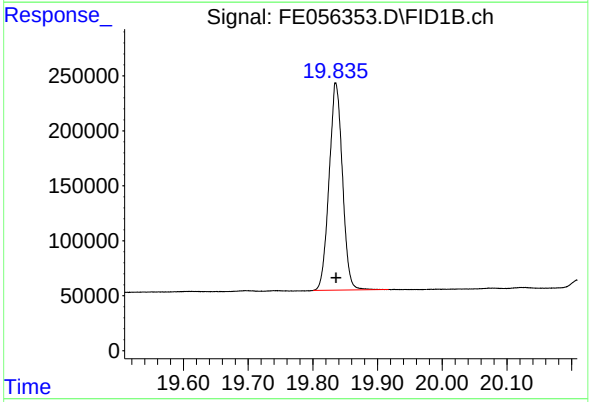
R.T.: 18.217 min
Delta R.T.: 0.000 min
Response: 3132258
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



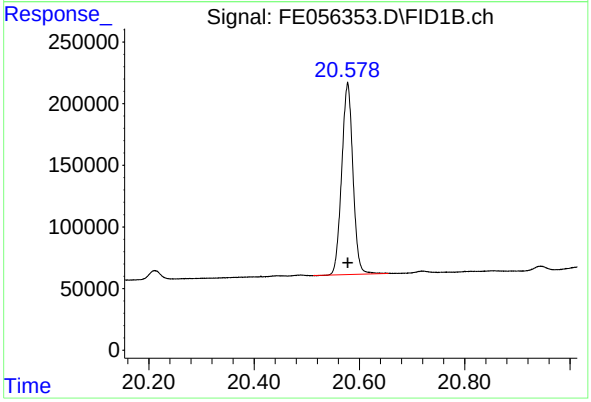
#18 n-Dotriacontane (C32)

R.T.: 19.052 min
Delta R.T.: 0.000 min
Response: 2999317
Conc: 20.00 ug/ml



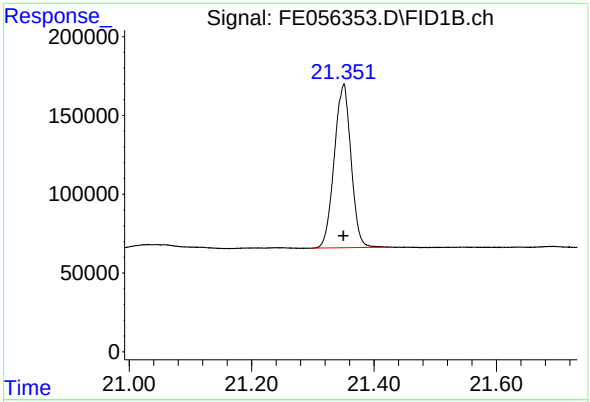
#19 n-Tetratriacontane (C34)

R.T.: 19.836 min
Delta R.T.: 0.000 min
Response: 2703510
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

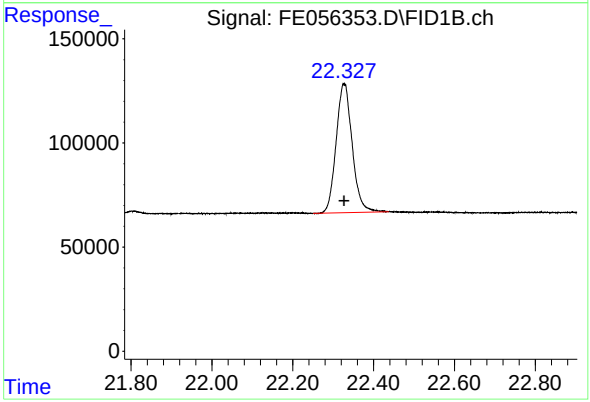
R.T.: 20.578 min
Delta R.T.: 0.000 min
Response: 2303077
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.350 min
Delta R.T.: 0.000 min
Response: 1973965
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.327 min
Delta R.T.: 0.000 min
Response: 1709655
Conc: 20.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056353.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 18:30
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 101725.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	3.399	3.360	3.467	BB	314168	3073653	80.32%	4.614%
2	4.652	4.620	4.735	BB	315135	3104239	81.12%	4.660%
3	6.369	6.337	6.482	BB	322349	3362356	87.86%	5.047%
4	6.826	6.794	6.904	BB	312429	3153360	82.40%	4.734%
5	7.470	7.434	7.585	BB	289227	3198353	83.58%	4.801%
6	8.662	8.614	8.750	BB	282172	3124392	81.65%	4.690%
7	10.277	10.242	10.379	BB	282342	3294820	86.10%	4.946%
8	11.727	11.622	11.804	BB	292965	3417372	89.30%	5.130%
9	12.052	12.015	12.125	BB	351680	3826772	100.00%	5.745%
10	13.041	13.002	13.110	BB	279975	3319985	86.76%	4.984%
11	13.489	13.440	13.572	BB	233341	2867313	74.93%	4.304%
12	13.655	13.617	13.729	BB	269871	3280295	85.72%	4.924%
13	14.244	14.207	14.320	BB	256630	3251010	84.95%	4.880%
14	15.351	15.287	15.434	BB	247613	3242751	84.74%	4.868%
15	16.375	16.317	16.452	BB	250277	3181322	83.13%	4.776%
16	17.327	17.265	17.400	BB	233886	3095047	80.88%	4.646%
17	18.217	18.152	18.295	BB	229979	3132258	81.85%	4.702%
18	19.052	19.000	19.122	BB	213371	2999317	78.38%	4.502%
19	19.836	19.800	19.917	BB	188149	2703510	70.65%	4.058%
20	20.578	20.512	20.655	BB	155054	2303077	60.18%	3.457%
21	21.350	21.300	21.424	BB	103890	1973965	51.58%	2.963%
22	22.327	22.250	22.437	BB	61787	1709655	44.68%	2.566%

Sum of corrected areas: 66614822

Aliphatic EPH 101725.M Fri Oct 17 08:34:26 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056354.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 19:00
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 17 08:23:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 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)	12.051	2078091	10.861 ug/ml
Spiked Amount	50.000		Recovery =	21.72%
12) S	1-chlorooctadecane (S...	13.488	1545743	10.782 ug/ml
Spiked Amount	50.000		Recovery =	21.56%
	Target Compounds			
1) T	n-Nonane (C9)	3.399	1646705	10.715 ug/ml
2) T	n-Decane (C10)	4.652	1655109	10.664 ug/ml
3) T	A~Naphthalene (C11.7)	6.370	1752100	10.422 ug/ml
4) T	n-Dodecane (C12)	6.825	1690409	10.721 ug/ml
5) T	A~2-methylnaphthalene...	7.470	1629274	10.188 ug/ml
6) T	n-Tetradecane (C14)	8.661	1662323	10.641 ug/ml
7) T	n-Hexadecane (C16)	10.276	1758484	10.674 ug/ml
8) T	n-Octadecane (C18)	11.725	1854119	10.851 ug/ml
10) T	n-Eicosane (C20)	13.040	1816244	10.941 ug/ml
11) T	n-Heneicosane (C21)	13.654	1788939	10.907 ug/ml
13) T	n-Docosane (C22)	14.243	1812465	11.150 ug/ml
14) T	n-Tetracosane (C24)	15.350	1832865	11.304 ug/ml
15) T	n-Hexacosane (C26)	16.374	1812019	11.392 ug/ml
16) T	n-Octacosane (C28)	17.327	1800062	11.632 ug/ml
17) T	n-Tricontane (C30)	18.217	1850780	11.818 ug/ml
18) T	n-Dotriacontane (C32)	19.051	1808728	12.061 ug/ml
19) T	n-Tetratriacontane (C34)	19.835	1598424	11.825 ug/ml
20) T	n-Hexatriacontane (C36)	20.577	1302225	11.309 ug/ml
21) T	n-Octatriacontane (C38)	21.348	1117621	11.324 ug/ml
22) T	n-Tetracontane (C40)	22.327	970320	11.351 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

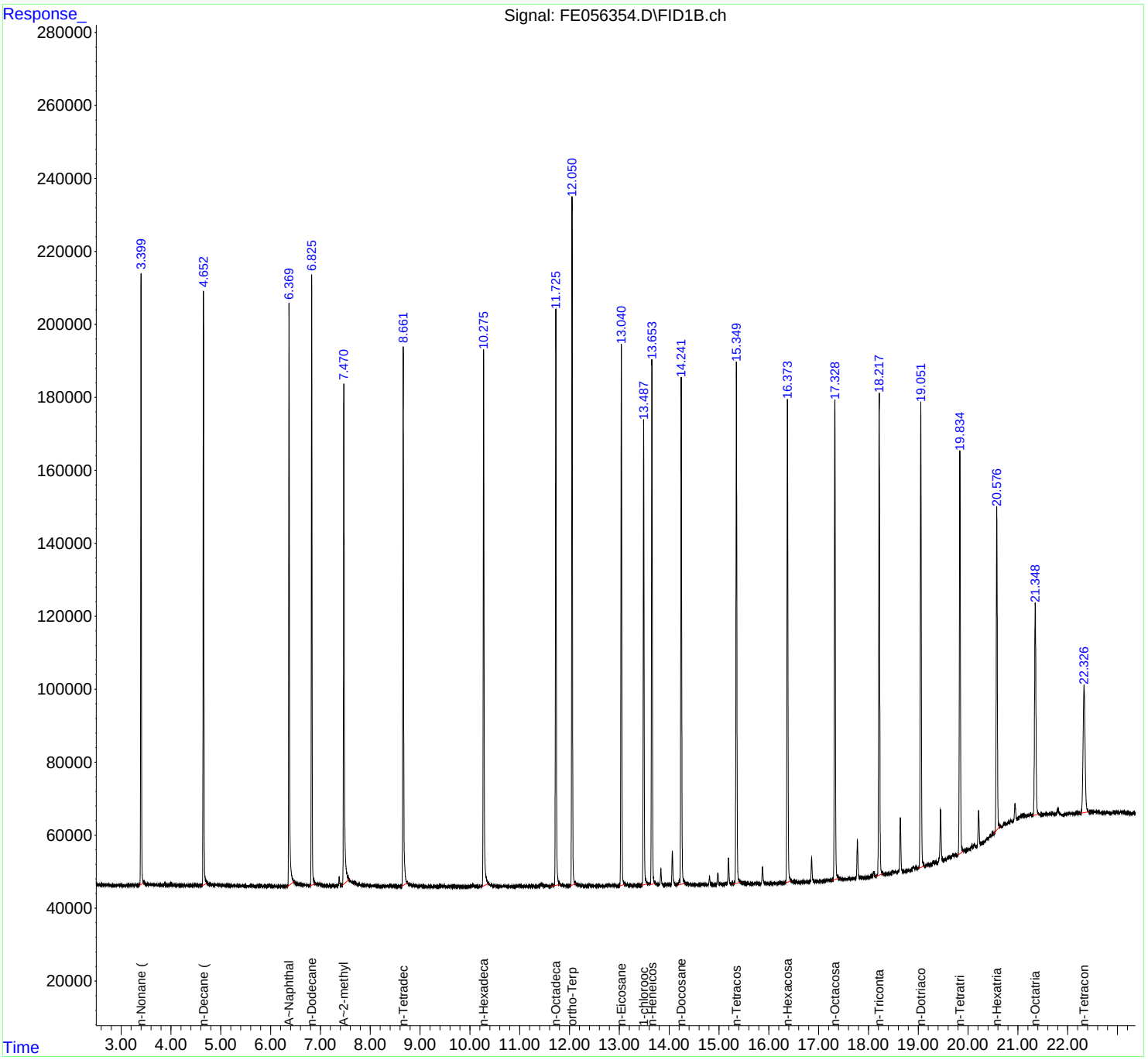
Quantitation Report (QT Reviewed)

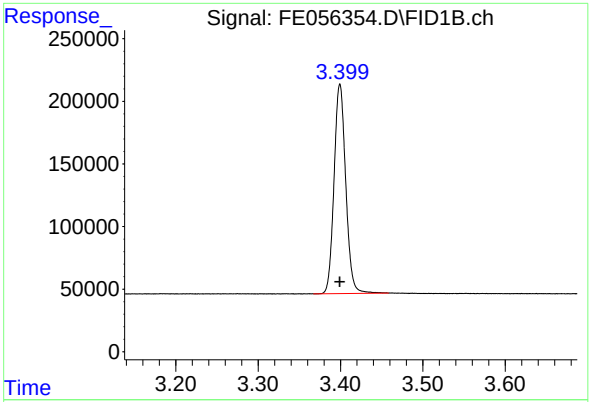
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056354.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 19:00
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 17 08:23:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 2025
Response via : Initial Calibration
Integrator: ChemStation

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

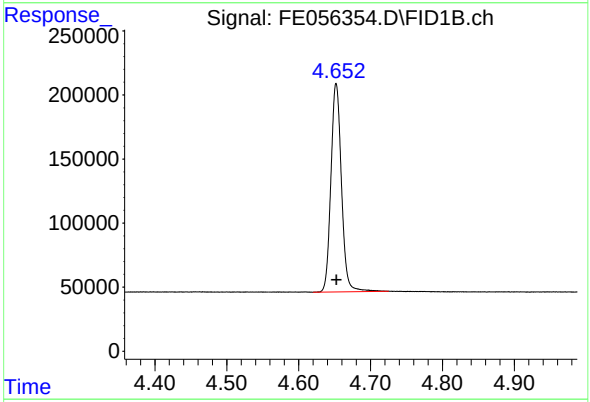




#1 n-Nonane (C9)

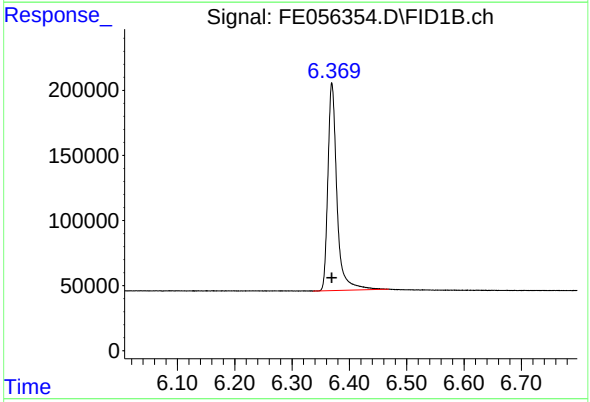
R.T.: 3.399 min
Delta R.T.: 0.000 min
Response: 1646705
Conc: 10.71 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



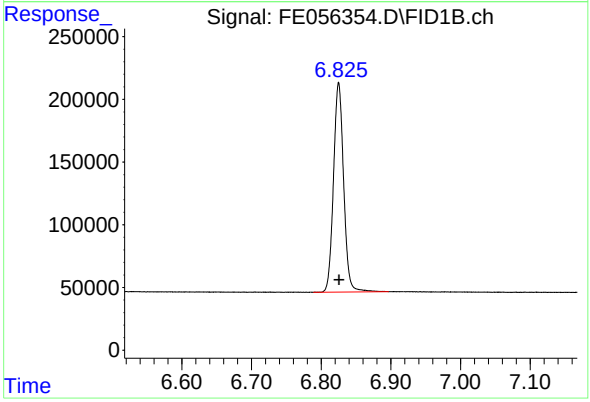
#2 n-Decane (C10)

R.T.: 4.652 min
Delta R.T.: 0.000 min
Response: 1655109
Conc: 10.66 ug/ml



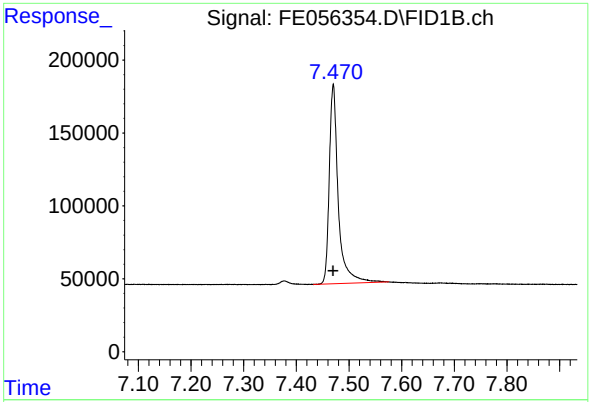
#3 A~Naphthalene (C11.7)

R.T.: 6.370 min
Delta R.T.: 0.000 min
Response: 1752100
Conc: 10.42 ug/ml



#4 n-Dodecane (C12)

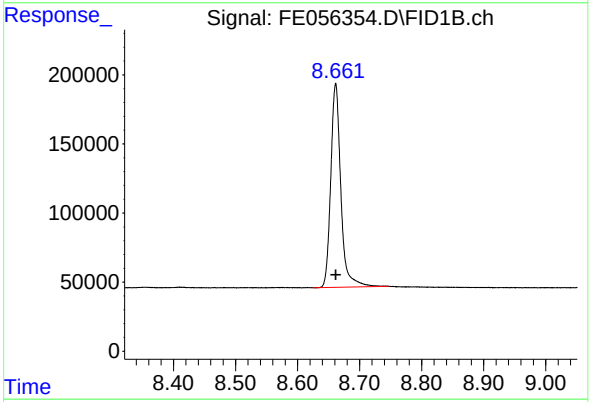
R.T.: 6.825 min
Delta R.T.: 0.000 min
Response: 1690409
Conc: 10.72 ug/ml



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

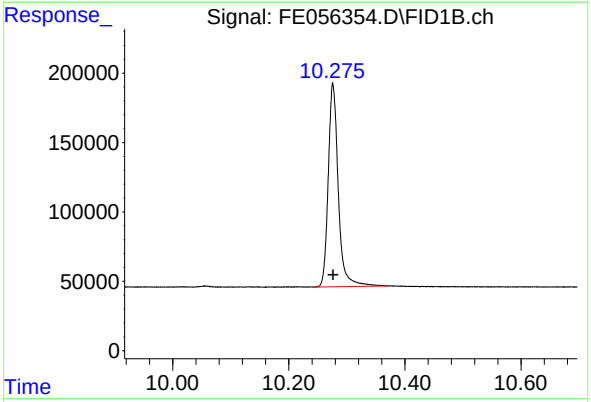
R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1629274
Conc: 10.19 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



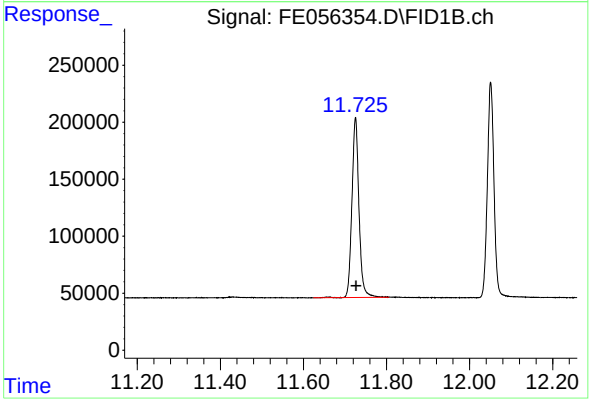
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 1662323
Conc: 10.64 ug/ml



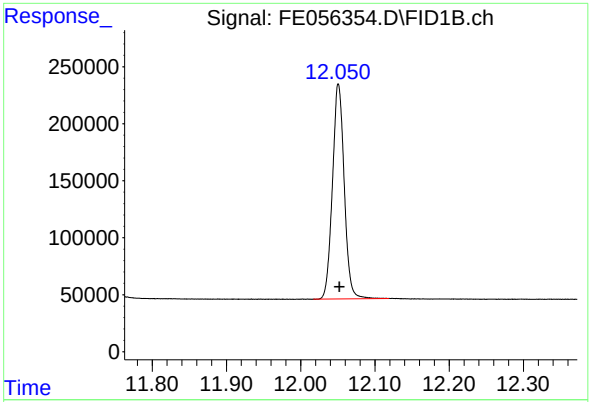
#7 n-Hexadecane (C16)

R.T.: 10.276 min
Delta R.T.: 0.000 min
Response: 1758484
Conc: 10.67 ug/ml



#8 n-Octadecane (C18)

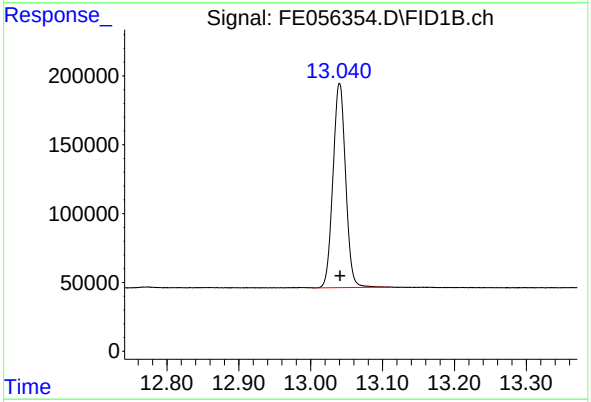
R.T.: 11.725 min
Delta R.T.: -0.001 min
Response: 1854119
Conc: 10.85 ug/ml



#9 ortho-Terphenyl (SURR)

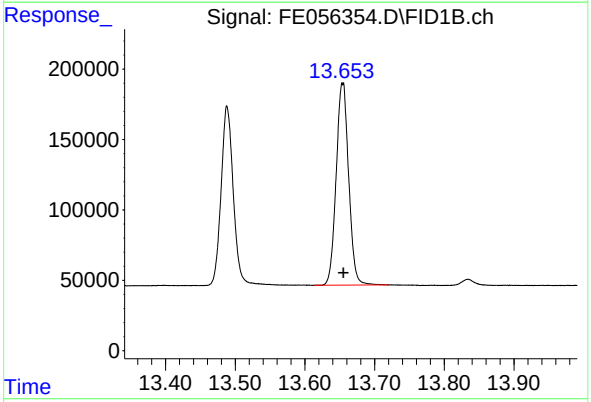
R.T.: 12.051 min
Delta R.T.: -0.001 min
Response: 2078091
Conc: 10.86 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



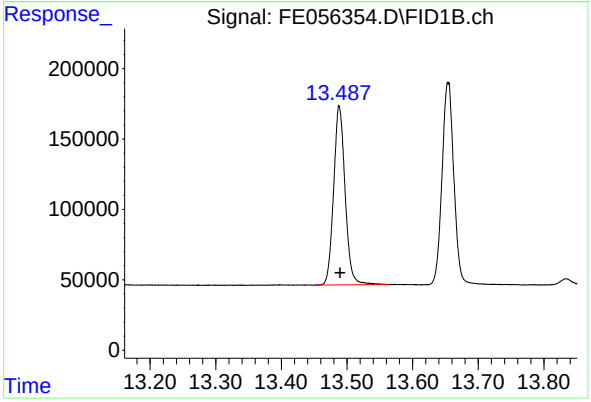
#10 n-Eicosane (C20)

R.T.: 13.040 min
Delta R.T.: 0.000 min
Response: 1816244
Conc: 10.94 ug/ml



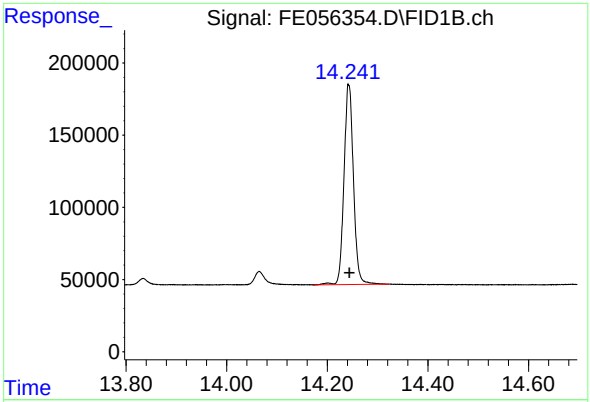
#11 n-Heneicosane (C21)

R.T.: 13.654 min
Delta R.T.: -0.001 min
Response: 1788939
Conc: 10.91 ug/ml



#12 1-chlorooctadecane (SURR)

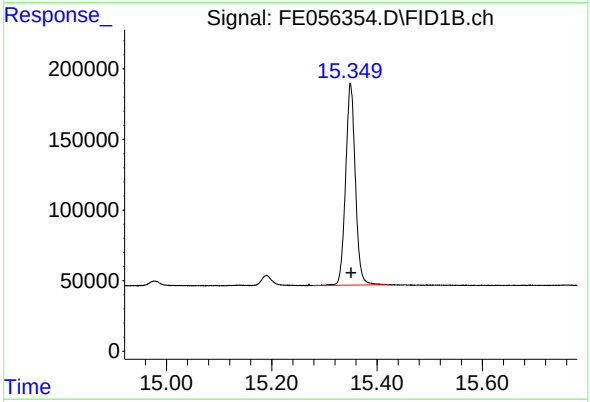
R.T.: 13.488 min
Delta R.T.: 0.000 min
Response: 1545743
Conc: 10.78 ug/ml



#13 n-Docosane (C22)

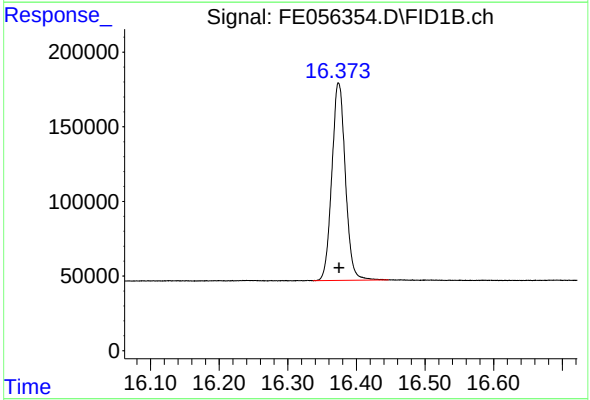
R.T.: 14.243 min
Delta R.T.: 0.000 min
Response: 1812465
Conc: 11.15 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



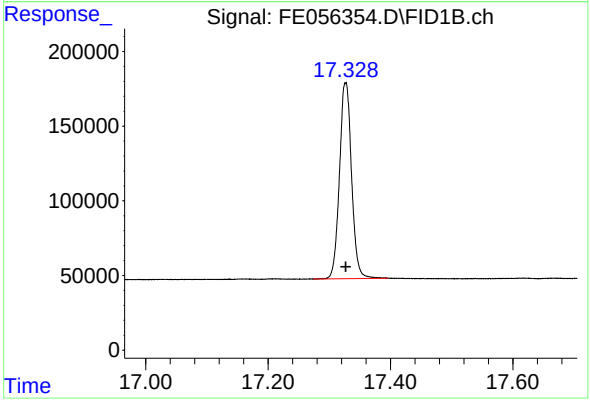
#14 n-Tetracosane (C24)

R.T.: 15.350 min
Delta R.T.: 0.000 min
Response: 1832865
Conc: 11.30 ug/ml



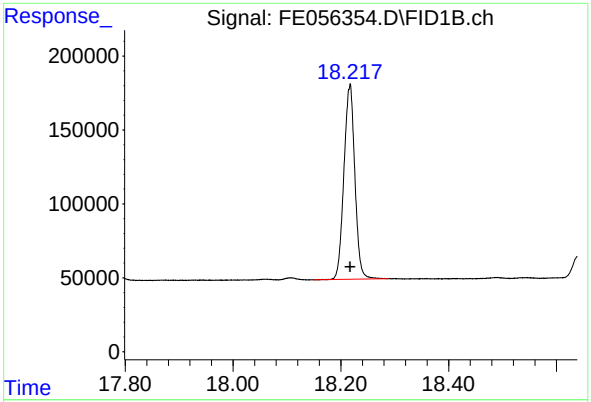
#15 n-Hexacosane (C26)

R.T.: 16.374 min
Delta R.T.: 0.000 min
Response: 1812019
Conc: 11.39 ug/ml



#16 n-Octacosane (C28)

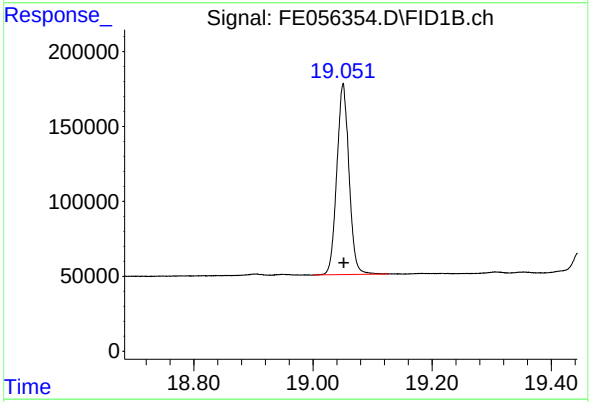
R.T.: 17.327 min
Delta R.T.: 0.000 min
Response: 1800062
Conc: 11.63 ug/ml



#17 n-Tricontane (C30)

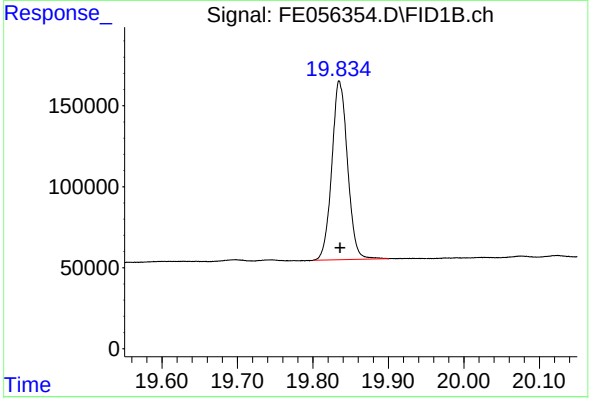
R.T.: 18.217 min
Delta R.T.: 0.000 min
Response: 1850780
Conc: 11.82 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



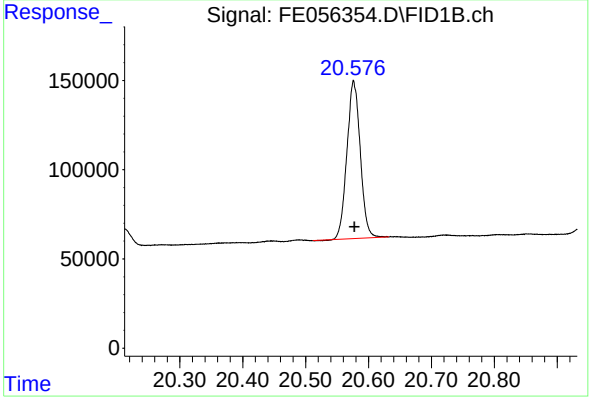
#18 n-Dotriacontane (C32)

R.T.: 19.051 min
Delta R.T.: -0.001 min
Response: 1808728
Conc: 12.06 ug/ml



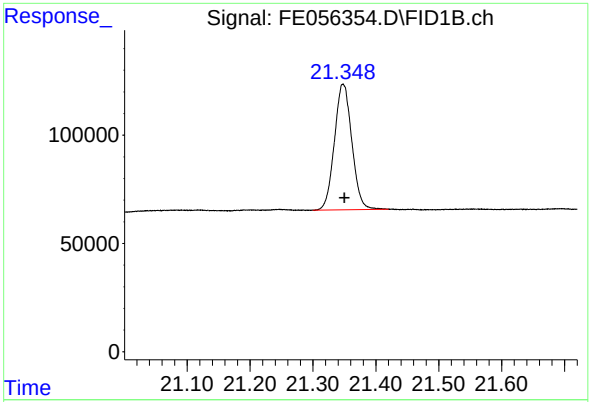
#19 n-Tetratriacontane (C34)

R.T.: 19.835 min
Delta R.T.: 0.000 min
Response: 1598424
Conc: 11.82 ug/ml



#20 n-Hexatriacontane (C36)

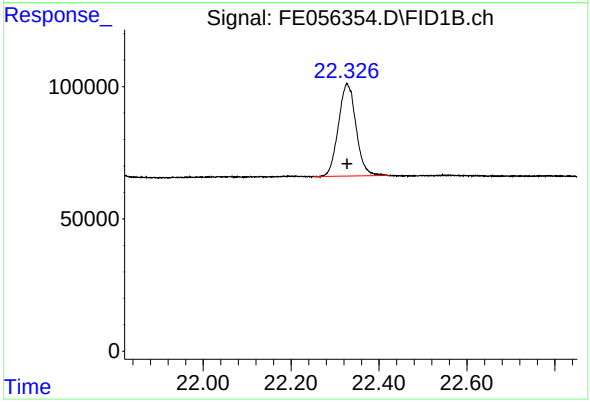
R.T.: 20.577 min
Delta R.T.: -0.001 min
Response: 1302225
Conc: 11.31 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.348 min
Delta R.T.: -0.002 min
Response: 1117621
Conc: 11.32 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.327 min
Delta R.T.: 0.000 min
Response: 970320
Conc: 11.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056354.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 19:00
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 101725.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	3.399	3.367	3.459	BB	167629	1646705	79.24%	4.477%
2	4.652	4.620	4.725	BB	162847	1655109	79.65%	4.500%
3	6.370	6.337	6.469	BB	158505	1752100	84.31%	4.763%
4	6.825	6.789	6.897	BB	167223	1690409	81.34%	4.596%
5	7.470	7.432	7.575	BB	136944	1629274	78.40%	4.429%
6	8.661	8.625	8.747	BB	147886	1662323	79.99%	4.519%
7	10.276	10.242	10.372	BB	144929	1758484	84.62%	4.781%
8	11.725	11.624	11.805	BB	157967	1854119	89.22%	5.041%
9	12.051	12.017	12.119	BB	188969	2078091	100.00%	5.650%
10	13.040	13.004	13.109	BB	148520	1816244	87.40%	4.938%
11	13.488	13.449	13.564	BB	126739	1545743	74.38%	4.202%
12	13.654	13.612	13.720	BB	143859	1788939	86.09%	4.863%
13	14.243	14.172	14.322	BB	137935	1812465	87.22%	4.927%
14	15.350	15.279	15.422	BB	141816	1832865	88.20%	4.983%
15	16.374	16.337	16.447	BB	132410	1812019	87.20%	4.926%
16	17.327	17.274	17.397	BB	130903	1800062	86.62%	4.894%
17	18.217	18.149	18.289	BB	131211	1850780	89.06%	5.032%
18	19.051	19.000	19.127	BB	127187	1808728	87.04%	4.917%
19	19.835	19.800	19.900	BB	109970	1598424	76.92%	4.346%
20	20.577	20.512	20.632	BB	88050	1302225	62.66%	3.540%
21	21.348	21.300	21.420	BB	58045	1117621	53.78%	3.038%
22	22.327	22.250	22.422	BB	34978	970320	46.69%	2.638%
			Sum of corrected areas:			36783049		

Aliphatic EPH 101725.M Fri Oct 17 08:35:02 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056355.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 19:31
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 17 08:24:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 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)	12.050	1074413	5.615 ug/ml
Spiked Amount	50.000		Recovery =	11.23%
12)	S 1-chlorooctadecane (S...	13.489	780302	5.443 ug/ml
Spiked Amount	50.000		Recovery =	10.89%
	Target Compounds			
1)	T n-Nonane (C9)	3.400	845403	5.501 ug/ml
2)	T n-Decane (C10)	4.652	837010	5.393 ug/ml
3)	T A~Naphthalene (C11.7)	6.371	865601	5.149 ug/ml
4)	T n-Dodecane (C12)	6.825	852915	5.410 ug/ml
5)	T A~2-methylnaphthalene...	7.471	757610	4.737 ug/ml
6)	T n-Tetradecane (C14)	8.662	828658	5.304 ug/ml
7)	T n-Hexadecane (C16)	10.277	881705	5.352 ug/ml
8)	T n-Octadecane (C18)	11.725	950205	5.561 ug/ml
10)	T n-Eicosane (C20)	13.040	945832	5.698 ug/ml
11)	T n-Heneicosane (C21)	13.654	928712	5.662 ug/ml
13)	T n-Docosane (C22)	14.243	966258	5.944 ug/ml
14)	T n-Tetracosane (C24)	15.349	1075389	6.633 ug/ml
15)	T n-Hexacosane (C26)	16.373	1073648	6.750 ug/ml
16)	T n-Octacosane (C28)	17.325	1103081	7.128 ug/ml
17)	T n-Tricontane (C30)	18.215	1157061	7.388 ug/ml
18)	T n-Dotriacontane (C32)	19.049	1164202	7.763 ug/ml
19)	T n-Tetratriacontane (C34)	19.835	997955	7.383 ug/ml
20)	T n-Hexatriacontane (C36)	20.576	769876	6.686 ug/ml
21)	T n-Octatriacontane (C38)	21.348	617112	6.253 ug/ml
22)	T n-Tetracontane (C40)	22.326	516170	6.038 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

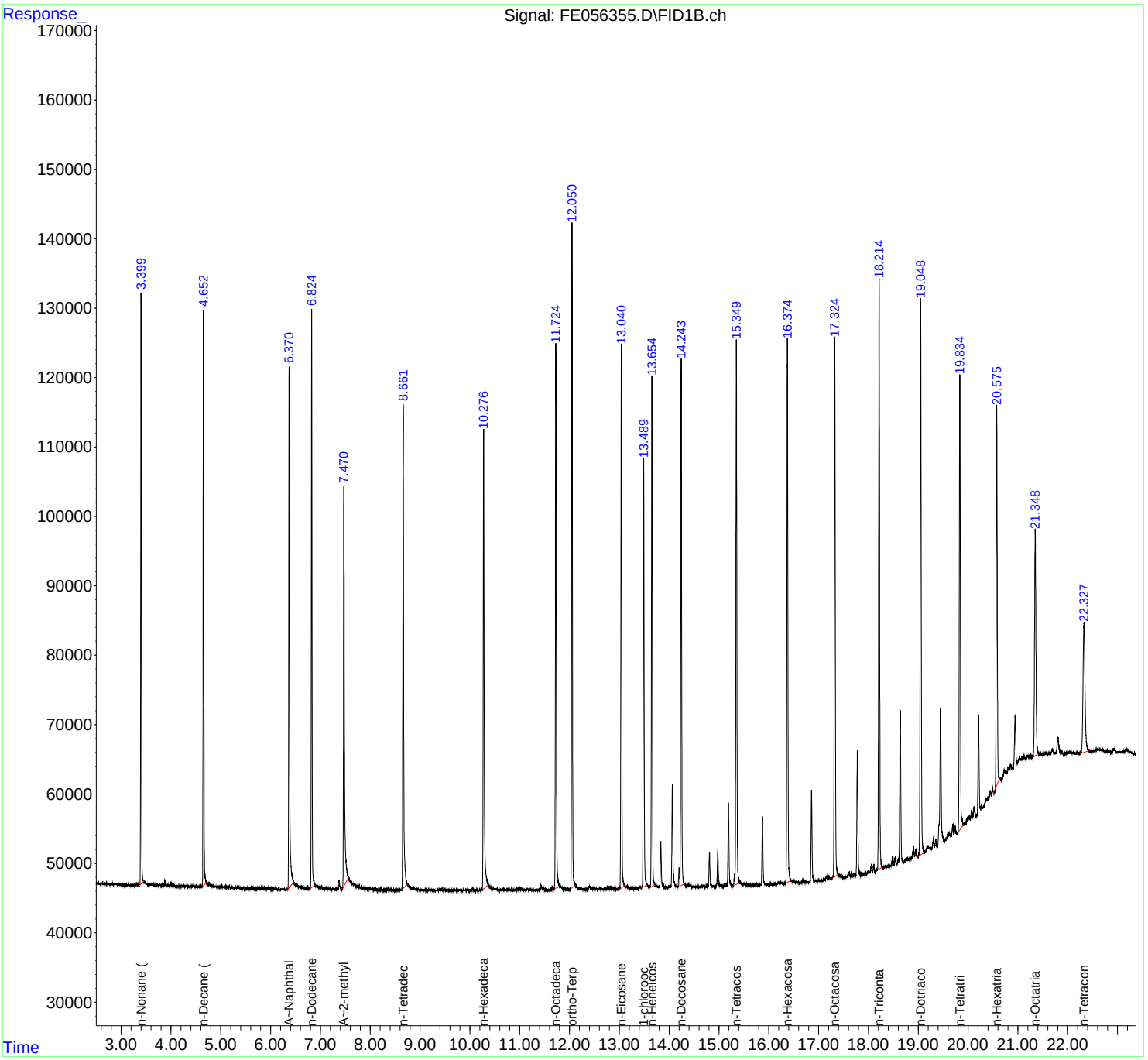
Quantitation Report (QT Reviewed)

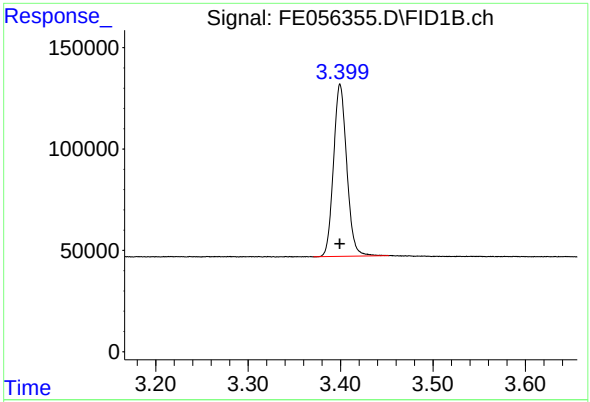
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056355.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 19:31
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 17 08:24:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:21:56 2025
Response via : Initial Calibration
Integrator: ChemStation

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

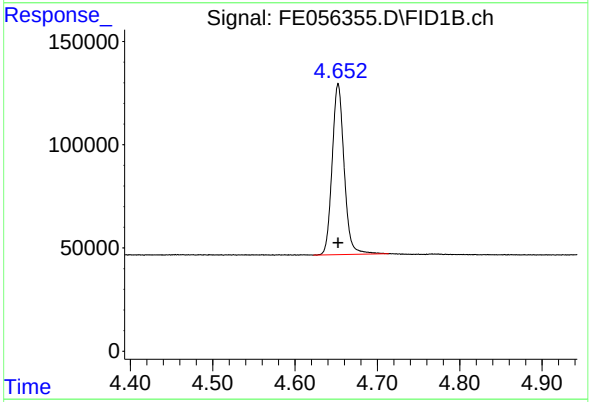




#1 n-Nonane (C9)

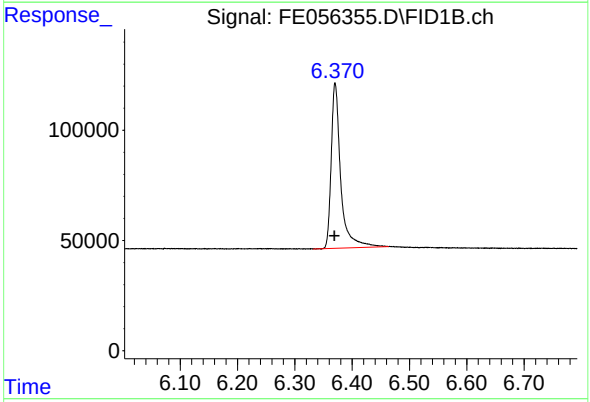
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 845403
Conc: 5.50 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



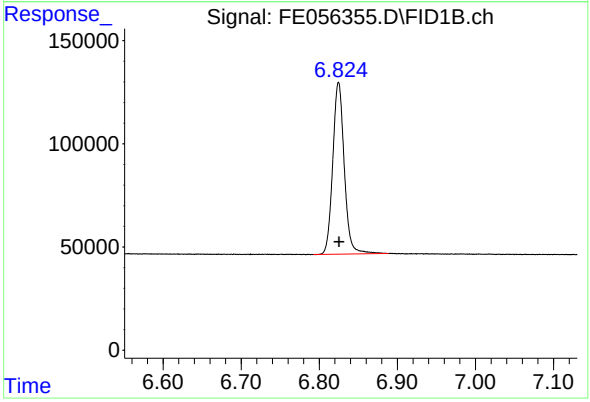
#2 n-Decane (C10)

R.T.: 4.652 min
Delta R.T.: 0.000 min
Response: 837010
Conc: 5.39 ug/ml



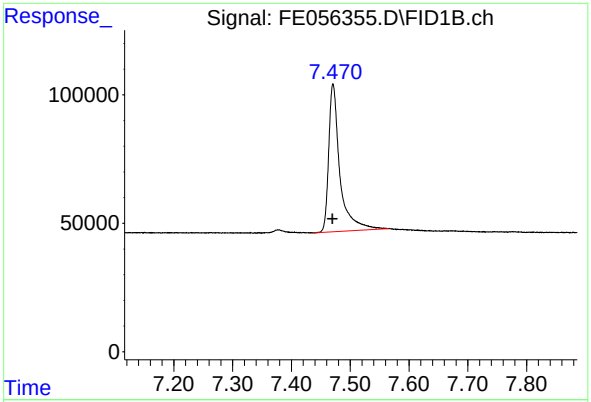
#3 A~Naphthalene (C11.7)

R.T.: 6.371 min
Delta R.T.: 0.002 min
Response: 865601
Conc: 5.15 ug/ml



#4 n-Dodecane (C12)

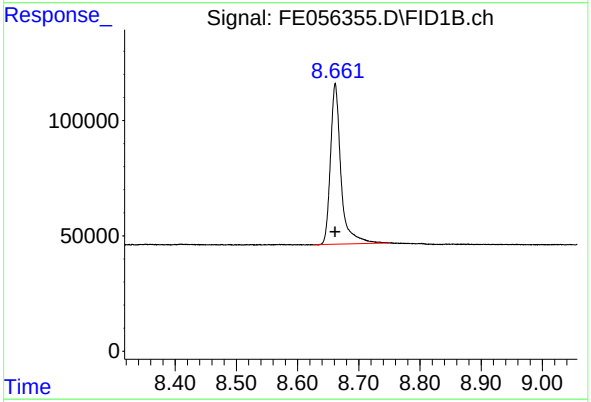
R.T.: 6.825 min
Delta R.T.: 0.000 min
Response: 852915
Conc: 5.41 ug/ml



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

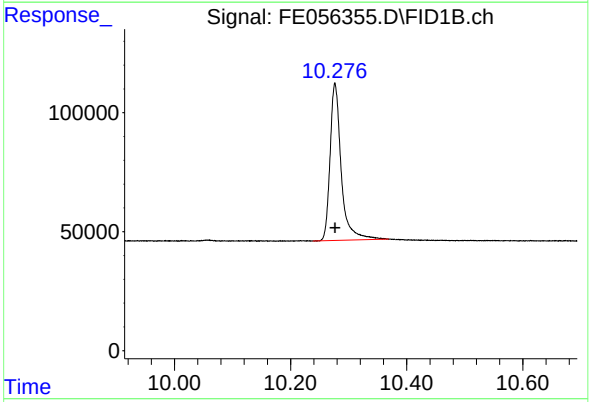
R.T.: 7.471 min
Delta R.T.: 0.001 min
Response: 757610
Conc: 4.74 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



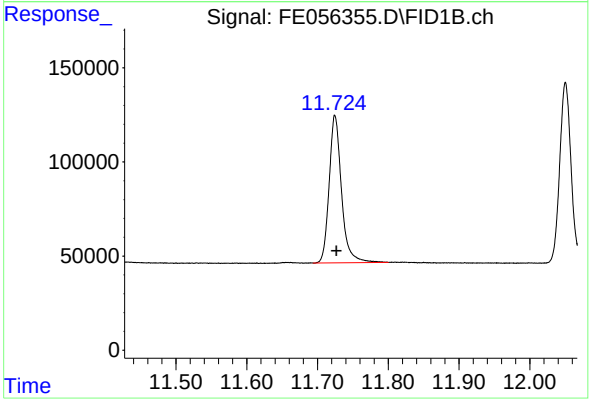
#6 n-Tetradecane (C14)

R.T.: 8.662 min
Delta R.T.: 0.000 min
Response: 828658
Conc: 5.30 ug/ml



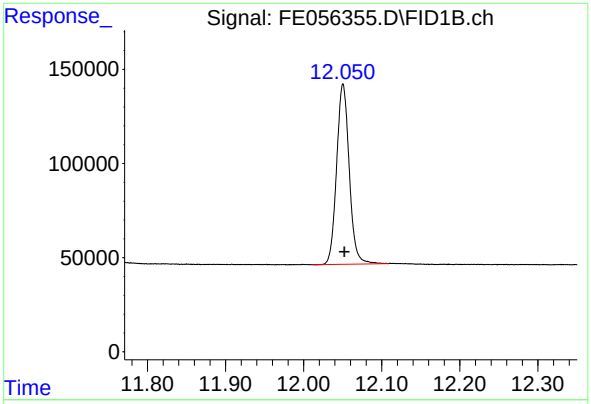
#7 n-Hexadecane (C16)

R.T.: 10.277 min
Delta R.T.: 0.000 min
Response: 881705
Conc: 5.35 ug/ml



#8 n-Octadecane (C18)

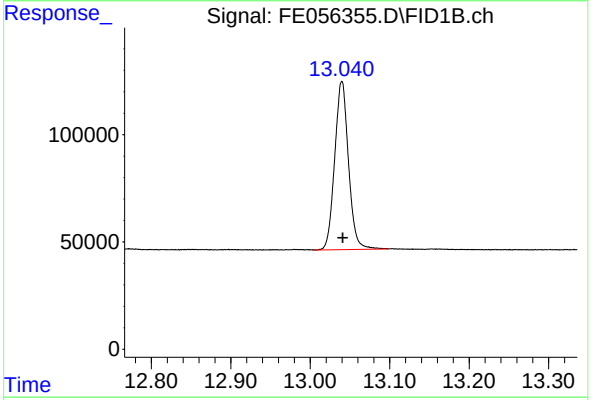
R.T.: 11.725 min
Delta R.T.: -0.002 min
Response: 950205
Conc: 5.56 ug/ml



#9 ortho-Terphenyl (SURR)

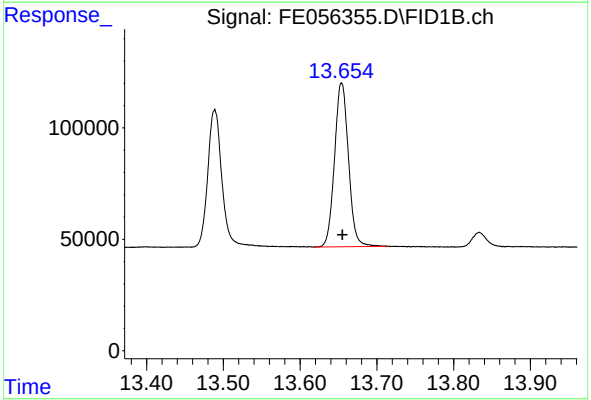
R.T.: 12.050 min
Delta R.T.: -0.002 min
Response: 1074413
Conc: 5.62 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



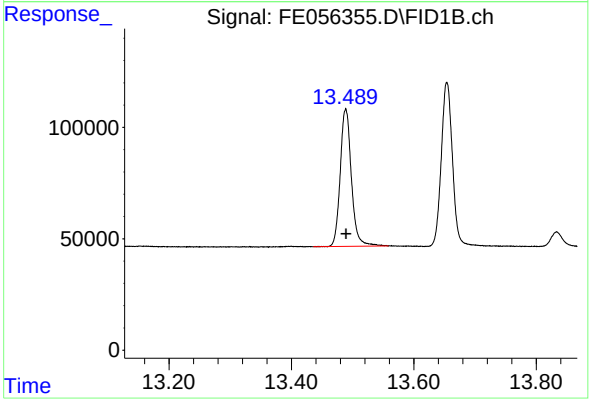
#10 n-Eicosane (C20)

R.T.: 13.040 min
Delta R.T.: -0.001 min
Response: 945832
Conc: 5.70 ug/ml



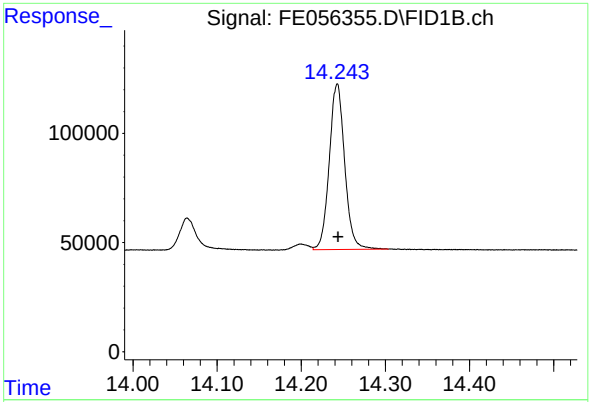
#11 n-Heneicosane (C21)

R.T.: 13.654 min
Delta R.T.: -0.001 min
Response: 928712
Conc: 5.66 ug/ml



#12 1-chlorooctadecane (SURR)

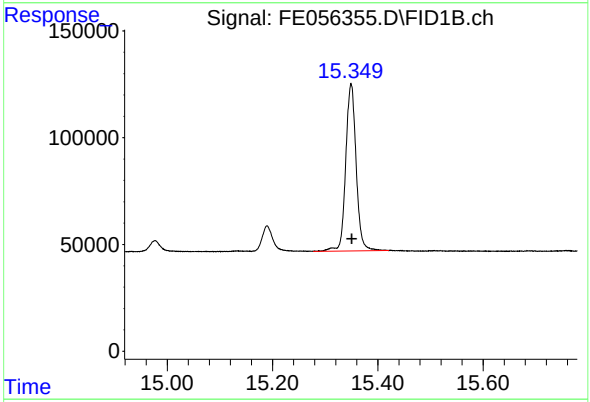
R.T.: 13.489 min
Delta R.T.: 0.000 min
Response: 780302
Conc: 5.44 ug/ml



#13 n-Docosane (C22)

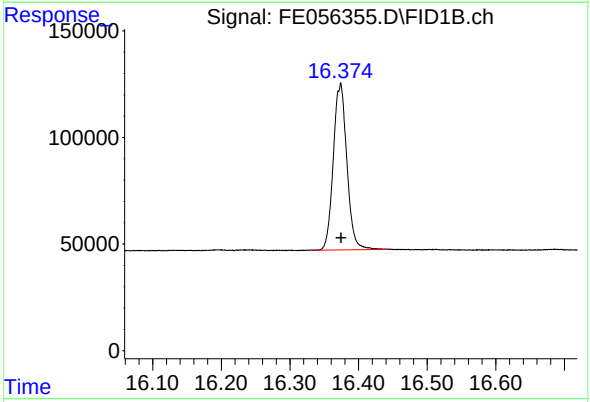
R.T.: 14.243 min
Delta R.T.: -0.001 min
Response: 966258
Conc: 5.94 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



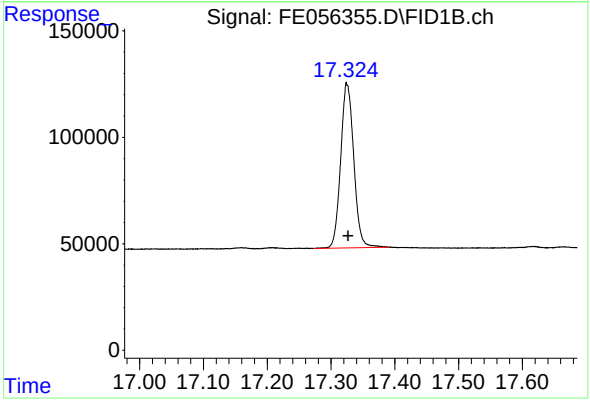
#14 n-Tetracosane (C24)

R.T.: 15.349 min
Delta R.T.: -0.001 min
Response: 1075389
Conc: 6.63 ug/ml



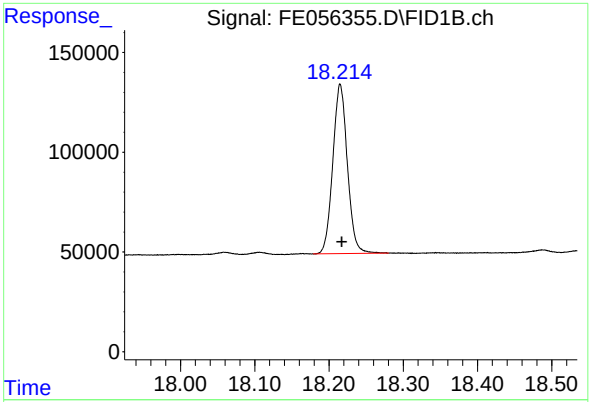
#15 n-Hexacosane (C26)

R.T.: 16.373 min
Delta R.T.: -0.001 min
Response: 1073648
Conc: 6.75 ug/ml



#16 n-Octacosane (C28)

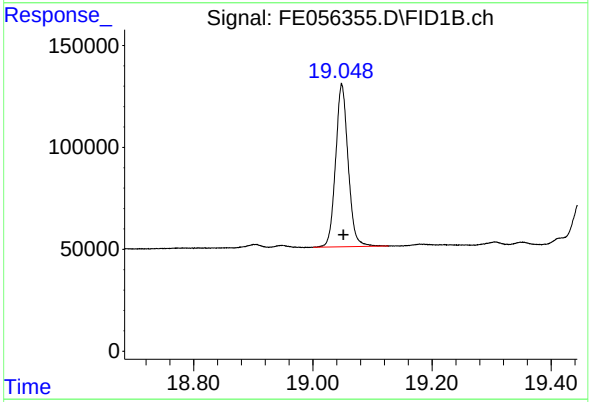
R.T.: 17.325 min
Delta R.T.: -0.001 min
Response: 1103081
Conc: 7.13 ug/ml



#17 n-Tricontane (C30)

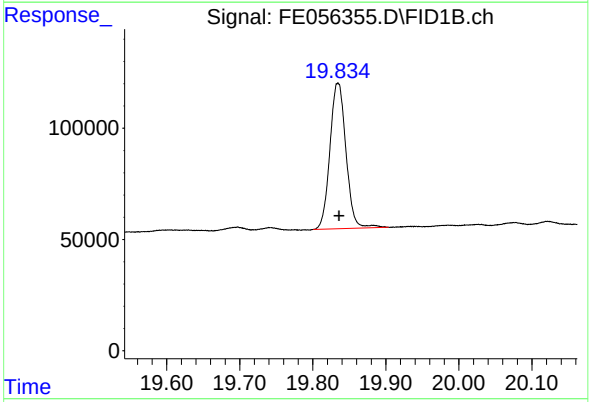
R.T.: 18.215 min
Delta R.T.: -0.002 min
Response: 1157061
Conc: 7.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



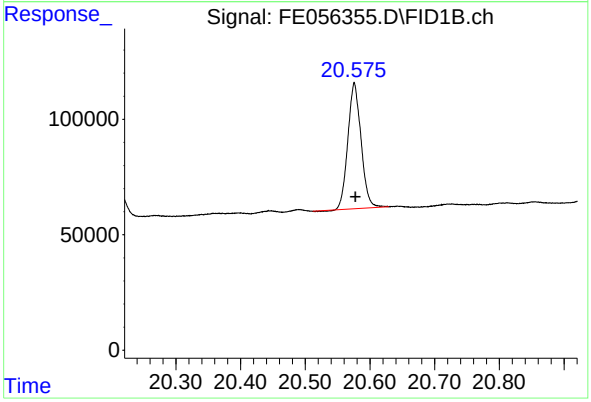
#18 n-Dotriacontane (C32)

R.T.: 19.049 min
Delta R.T.: -0.003 min
Response: 1164202
Conc: 7.76 ug/ml



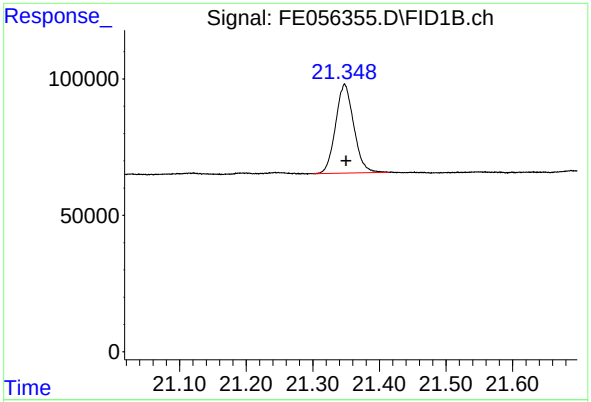
#19 n-Tetratriacontane (C34)

R.T.: 19.835 min
Delta R.T.: -0.001 min
Response: 997955
Conc: 7.38 ug/ml



#20 n-Hexatriacontane (C36)

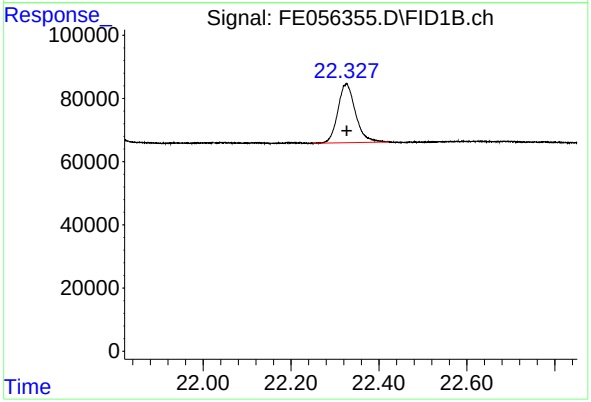
R.T.: 20.576 min
Delta R.T.: -0.002 min
Response: 769876
Conc: 6.69 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.348 min
Delta R.T.: -0.002 min
Response: 617112
Conc: 6.25 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.326 min
Delta R.T.: -0.002 min
Response: 516170
Conc: 6.04 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056355.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 19:31
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 101725.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	3.400	3.370	3.452	BB	84573	845403	72.62%	4.229%
2	4.652	4.622	4.714	BB	82659	837010	71.90%	4.187%
3	6.371	6.332	6.464	BB	74821	865601	74.35%	4.330%
4	6.825	6.792	6.889	BB	83405	852915	73.26%	4.267%
5	7.471	7.437	7.565	BB	57573	757610	65.08%	3.790%
6	8.662	8.625	8.749	BB	69512	828658	71.18%	4.146%
7	10.277	10.239	10.369	BB	65933	881705	75.73%	4.411%
8	11.725	11.694	11.800	BB	77863	950205	81.62%	4.754%
9	12.050	12.012	12.109	BB	95775	1074413	92.29%	5.375%
10	13.040	13.004	13.099	BB	78642	945832	81.24%	4.732%
11	13.489	13.435	13.559	BB	61563	780302	67.02%	3.904%
12	13.654	13.617	13.715	BB	73520	928712	79.77%	4.646%
13	14.243	14.214	14.304	VB	75724	966258	83.00%	4.834%
14	15.349	15.277	15.420	BB	78509	1075389	92.37%	5.380%
15	16.373	16.334	16.444	BB	78130	1073648	92.22%	5.371%
16	17.325	17.272	17.390	BB	76319	1103081	94.75%	5.518%
17	18.215	18.179	18.280	BB	84928	1157061	99.39%	5.788%
18	19.049	19.000	19.127	BB	79842	1164202	100.00%	5.824%
19	19.835	19.800	19.904	BB	65419	997955	85.72%	4.992%
20	20.576	20.512	20.629	BB	54672	769876	66.13%	3.851%
21	21.348	21.300	21.414	BB	32615	617112	53.01%	3.087%
22	22.326	22.250	22.422	BB	18646	516170	44.34%	2.582%

Sum of corrected areas: 19989119

Aliphatic EPH 101725.M Fri Oct 17 08:35:55 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056356.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 20:01
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 17 08:38:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:31:49 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)	12.052	3949794	19.334 ug/ml
Spiked Amount	50.000		Recovery =	38.67%
12) S	1-chlorooctadecane (S...	13.489	2945133	19.302 ug/ml
Spiked Amount	50.000		Recovery =	38.60%
	Target Compounds			
1) T	n-Nonane (C9)	3.399	3229626	19.814 ug/ml
2) T	n-Decane (C10)	4.652	3251290	19.771 ug/ml
3) T	A~Naphthalene (C11.7)	6.369	3508004	19.844 ug/ml
4) T	n-Dodecane (C12)	6.825	3303881	19.692 ug/ml
5) T	A~2-methylnaphthalene...	7.470	3357383	20.149 ug/ml
6) T	n-Tetradecane (C14)	8.662	3263139	19.642 ug/ml
7) T	n-Hexadecane (C16)	10.277	3411575	19.499 ug/ml
8) T	n-Octadecane (C18)	11.726	3525888	19.329 ug/ml
10) T	n-Eicosane (C20)	13.040	3421073	19.214 ug/ml
11) T	n-Heneicosane (C21)	13.654	3380745	19.269 ug/ml
13) T	n-Docosane (C22)	14.243	3347619	18.912 ug/ml
14) T	n-Tetracosane (C24)	15.350	3333057	18.320 ug/ml
15) T	n-Hexacosane (C26)	16.374	3273041	18.233 ug/ml
16) T	n-Octacosane (C28)	17.326	3193103	17.949 ug/ml
17) T	n-Tricontane (C30)	18.216	3242704	17.860 ug/ml
18) T	n-Dotriacontane (C32)	19.050	3153184	17.885 ug/ml
19) T	n-Tetratriacontane (C34)	19.835	2883877	18.630 ug/ml
20) T	n-Hexatriacontane (C36)	20.578	2529671	20.248 ug/ml
21) T	n-Octatriacontane (C38)	21.347	2185918	20.922 ug/ml
22) T	n-Tetracontane (C40)	22.324	1935013	21.324 ug/ml

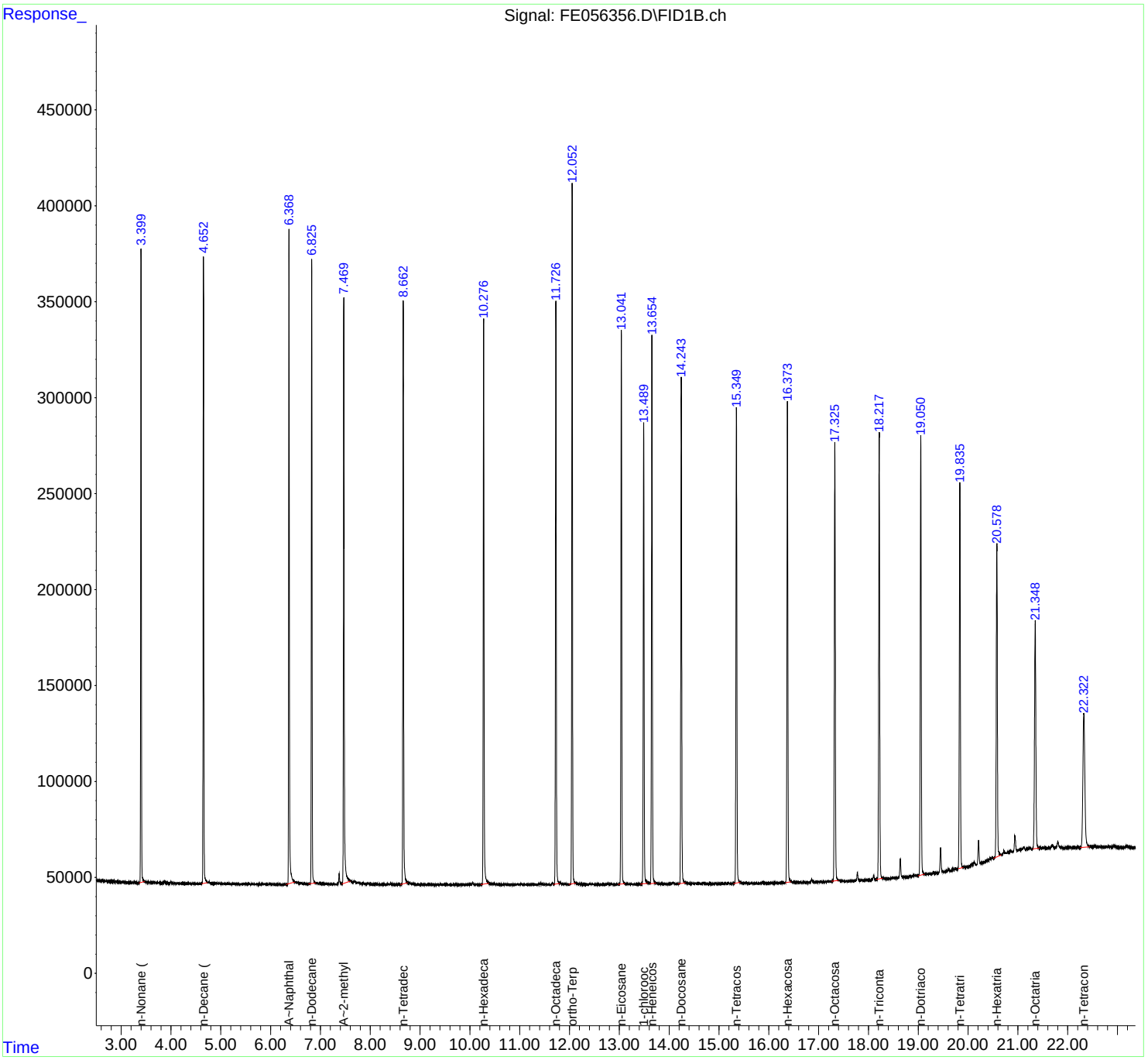
(f)=RT Delta > 1/2 Window (m)=manual int.

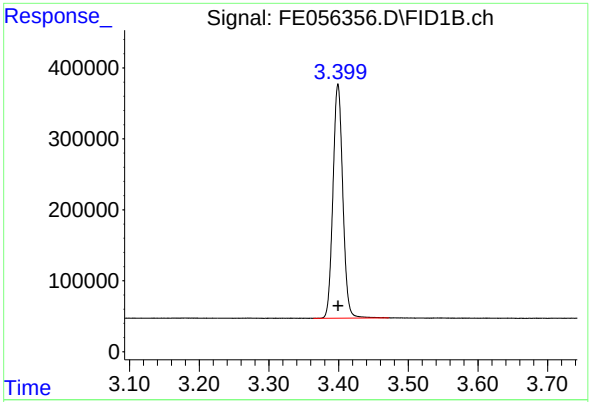
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056356.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 20:01
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 17 08:38:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Fri Oct 17 08:31:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

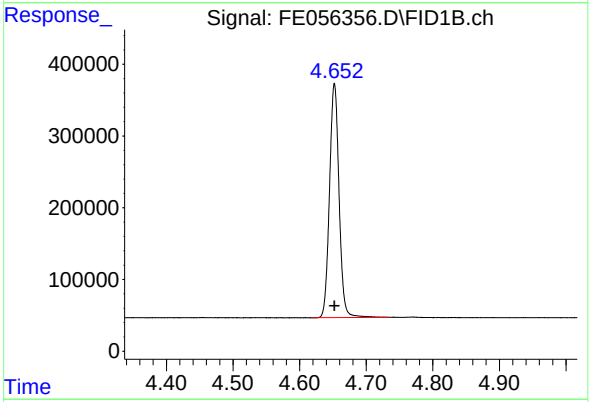




#1 n-Nonane (C9)

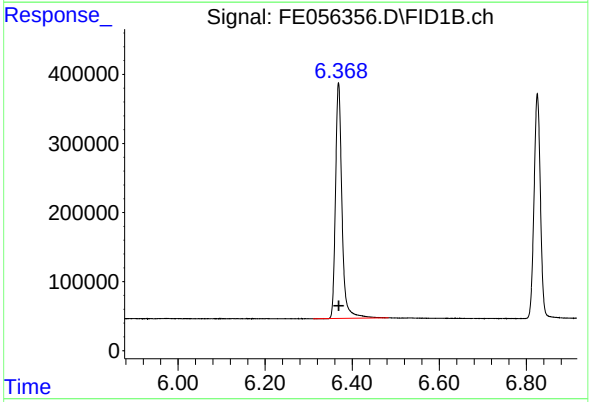
R.T.: 3.399 min
Delta R.T.: 0.000 min
Response: 3229626
Conc: 19.81 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



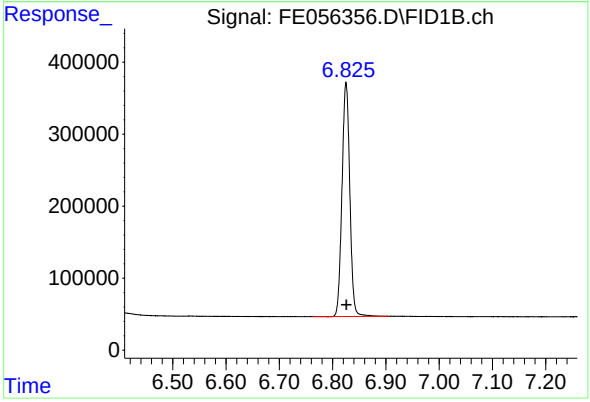
#2 n-Decane (C10)

R.T.: 4.652 min
Delta R.T.: 0.000 min
Response: 3251290
Conc: 19.77 ug/ml



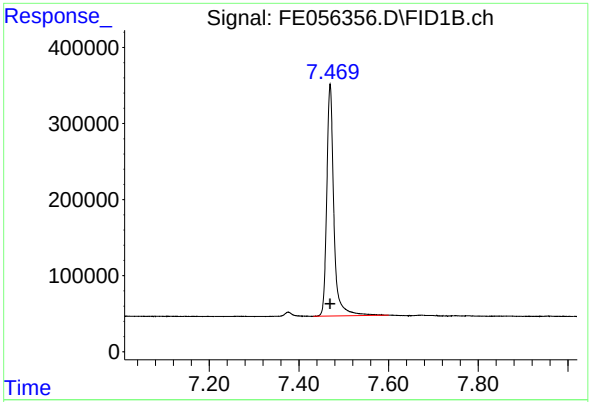
#3 A~Naphthalene (C11.7)

R.T.: 6.369 min
Delta R.T.: 0.000 min
Response: 3508004
Conc: 19.84 ug/ml



#4 n-Dodecane (C12)

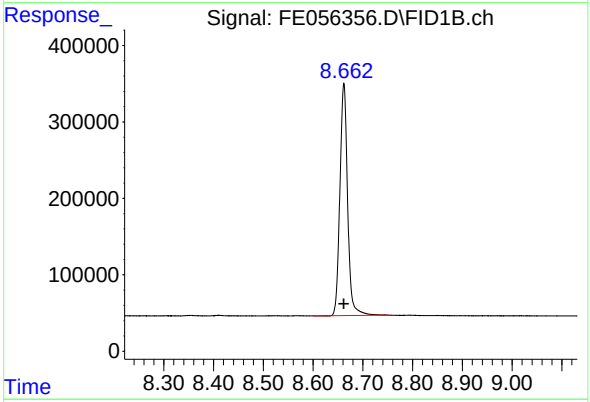
R.T.: 6.825 min
Delta R.T.: 0.000 min
Response: 3303881
Conc: 19.69 ug/ml



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

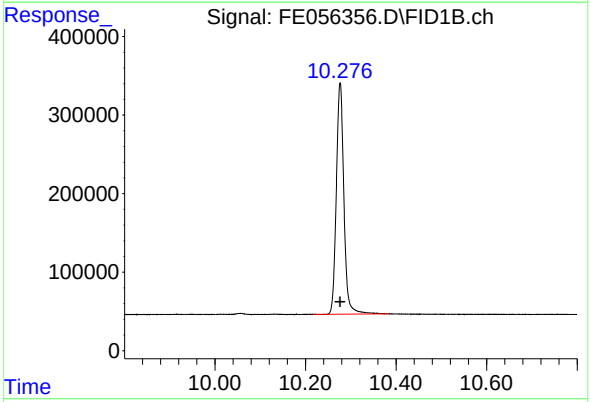
R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 3357383
Conc: 20.15 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



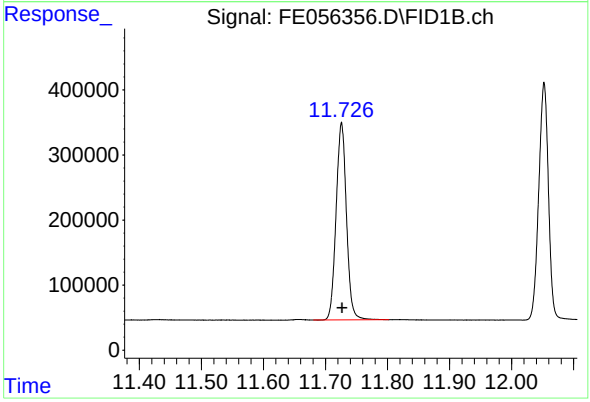
#6 n-Tetradecane (C14)

R.T.: 8.662 min
Delta R.T.: 0.000 min
Response: 3263139
Conc: 19.64 ug/ml



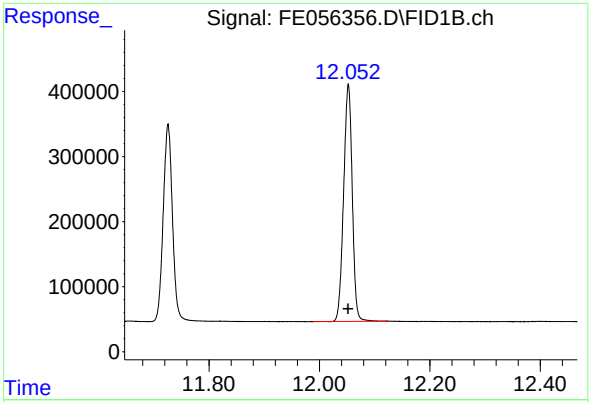
#7 n-Hexadecane (C16)

R.T.: 10.277 min
Delta R.T.: 0.000 min
Response: 3411575
Conc: 19.50 ug/ml



#8 n-Octadecane (C18)

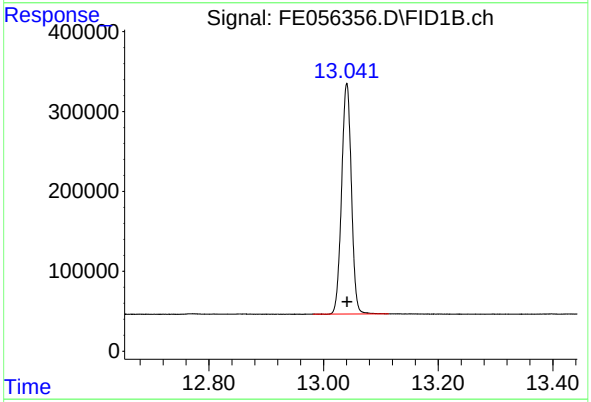
R.T.: 11.726 min
Delta R.T.: 0.000 min
Response: 3525888
Conc: 19.33 ug/ml



#9 ortho-Terphenyl (SURR)

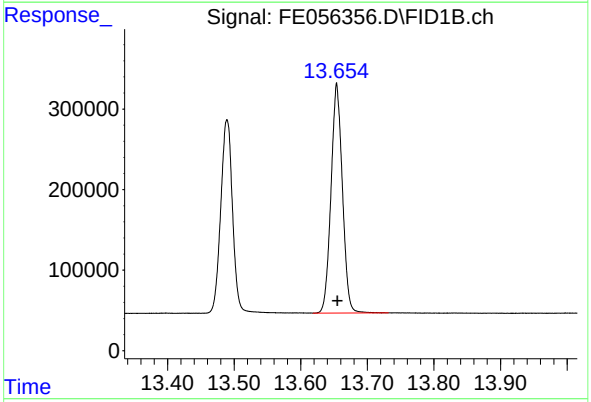
R.T.: 12.052 min
Delta R.T.: 0.000 min
Response: 3949794
Conc: 19.33 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



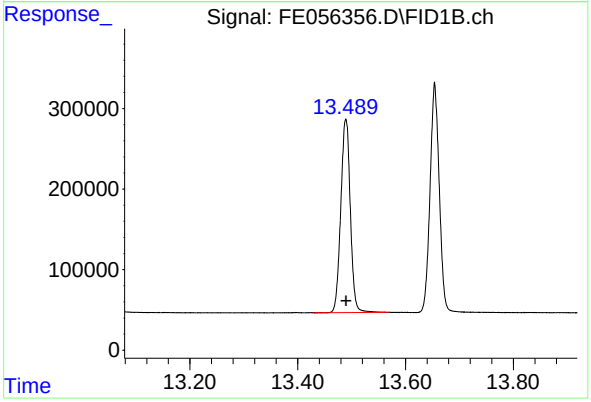
#10 n-Eicosane (C20)

R.T.: 13.040 min
Delta R.T.: 0.000 min
Response: 3421073
Conc: 19.21 ug/ml



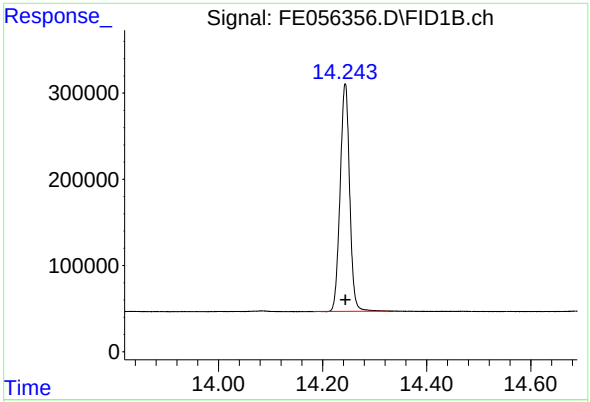
#11 n-Heneicosane (C21)

R.T.: 13.654 min
Delta R.T.: -0.001 min
Response: 3380745
Conc: 19.27 ug/ml



#12 1-chlorooctadecane (SURR)

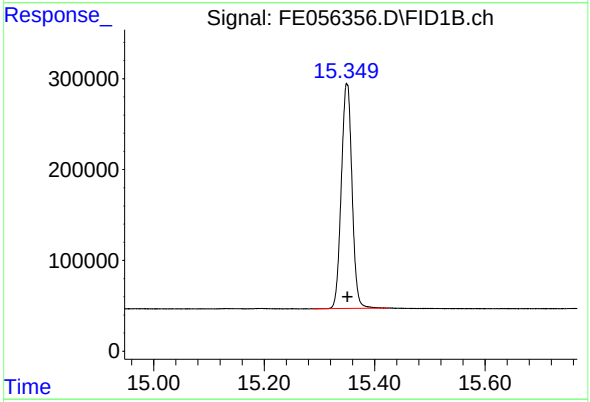
R.T.: 13.489 min
Delta R.T.: 0.000 min
Response: 2945133
Conc: 19.30 ug/ml



#13 n-Docosane (C22)

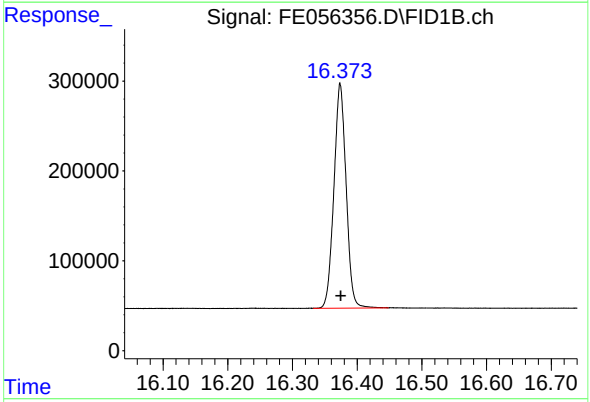
R.T.: 14.243 min
Delta R.T.: 0.000 min
Response: 3347619
Conc: 18.91 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



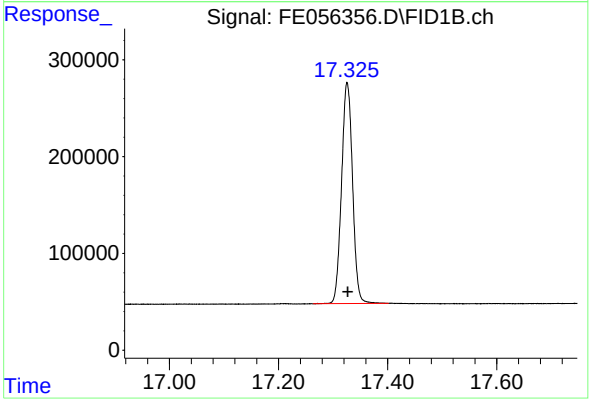
#14 n-Tetracosane (C24)

R.T.: 15.350 min
Delta R.T.: 0.000 min
Response: 3333057
Conc: 18.32 ug/ml



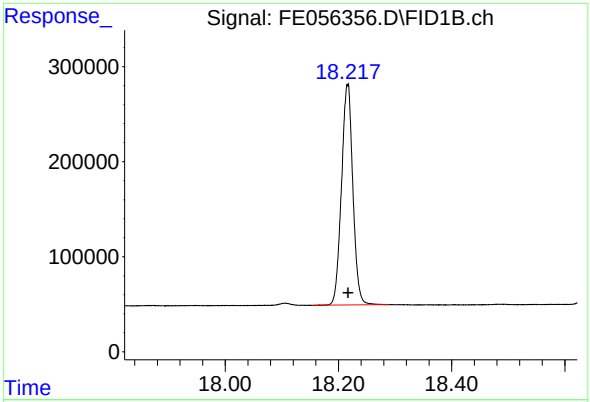
#15 n-Hexacosane (C26)

R.T.: 16.374 min
Delta R.T.: 0.000 min
Response: 3273041
Conc: 18.23 ug/ml



#16 n-Octacosane (C28)

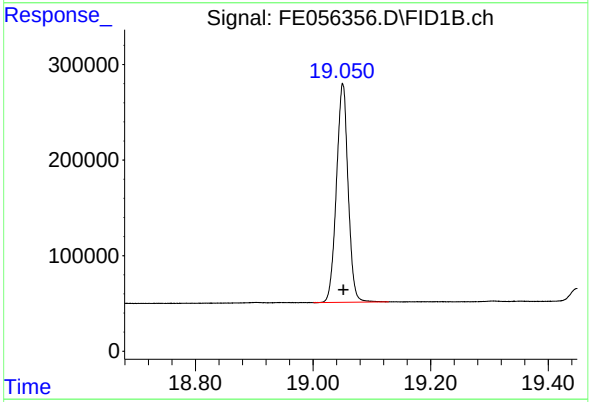
R.T.: 17.326 min
Delta R.T.: 0.000 min
Response: 3193103
Conc: 17.95 ug/ml



#17 n-Tricontane (C30)

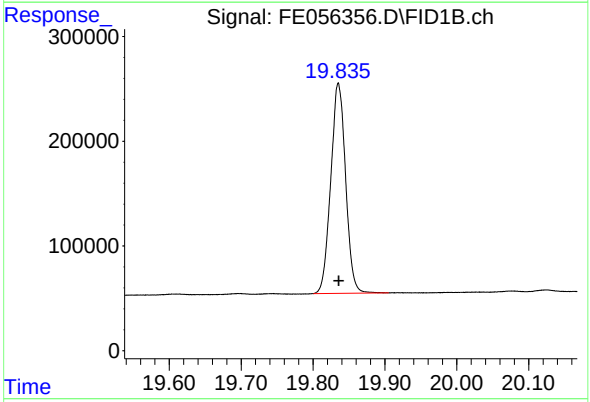
R.T.: 18.216 min
Delta R.T.: 0.000 min
Response: 3242704
Conc: 17.86 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



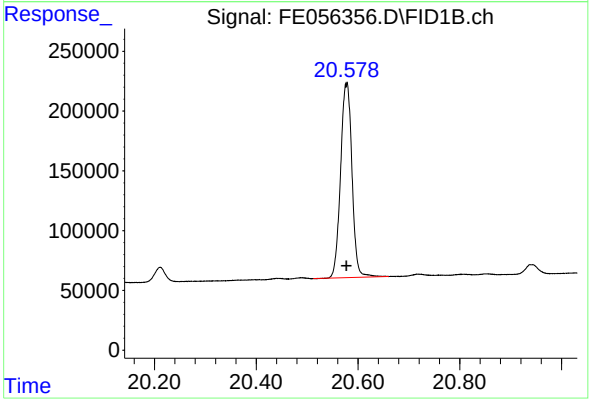
#18 n-Dotriacontane (C32)

R.T.: 19.050 min
Delta R.T.: -0.001 min
Response: 3153184
Conc: 17.89 ug/ml



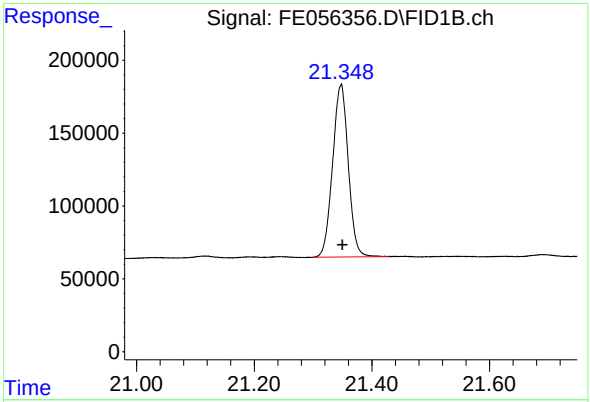
#19 n-Tetratriacontane (C34)

R.T.: 19.835 min
Delta R.T.: 0.000 min
Response: 2883877
Conc: 18.63 ug/ml



#20 n-Hexatriacontane (C36)

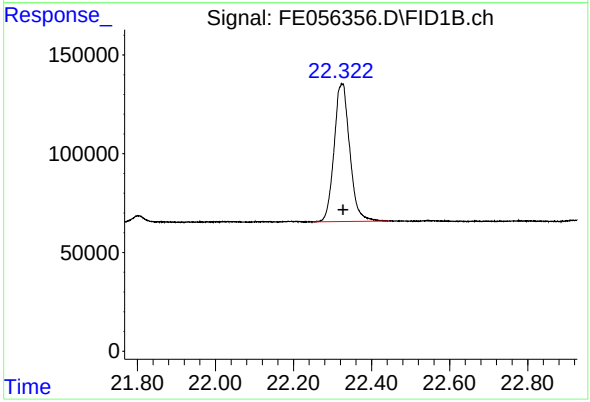
R.T.: 20.578 min
Delta R.T.: 0.000 min
Response: 2529671
Conc: 20.25 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.347 min
Delta R.T.: -0.003 min
Response: 2185918
Conc: 20.92 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.324 min
Delta R.T.: -0.003 min
Response: 1935013
Conc: 21.32 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101725AL\
Data File : FE056356.D
Signal(s) : FID1B.ch
Acq On : 16 Oct 2025 20:01
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 101725.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	3.399	3.364	3.472	BB	329383	3229626	81.77%	4.639%
2	4.652	4.620	4.734	BB	326792	3251290	82.32%	4.670%
3	6.369	6.310	6.484	BB	340988	3508004	88.81%	5.038%
4	6.825	6.764	6.905	BB	325042	3303881	83.65%	4.745%
5	7.470	7.432	7.600	BB	305406	3357383	85.00%	4.822%
6	8.662	8.600	8.752	BB	303744	3263139	82.62%	4.687%
7	10.277	10.217	10.384	BB	295339	3411575	86.37%	4.900%
8	11.726	11.680	11.802	BB	303036	3525888	89.27%	5.064%
9	12.052	11.989	12.125	BB	364645	3949794	100.00%	5.673%
10	13.040	12.982	13.114	BB	288511	3421073	86.61%	4.914%
11	13.489	13.429	13.569	BB	239866	2945133	74.56%	4.230%
12	13.654	13.619	13.732	BB	284673	3380745	85.59%	4.856%
13	14.243	14.182	14.327	BB	264305	3347619	84.75%	4.808%
14	15.350	15.289	15.425	BB	246764	3333057	84.39%	4.787%
15	16.374	16.332	16.449	BB	250306	3273041	82.87%	4.701%
16	17.326	17.264	17.402	BB	228409	3193103	80.84%	4.586%
17	18.216	18.155	18.289	BB	232756	3242704	82.10%	4.657%
18	19.050	19.000	19.129	BB	229356	3153184	79.83%	4.529%
19	19.835	19.800	19.905	BB	200556	2883877	73.01%	4.142%
20	20.578	20.512	20.660	BB	160867	2529671	64.05%	3.633%
21	21.347	21.300	21.429	BB	117716	2185918	55.34%	3.140%
22	22.324	22.250	22.444	BB	69158	1935013	48.99%	2.779%

Sum of corrected areas: 69624716

Aliphatic EPH 101725.M Fri Oct 17 08:49:01 2025

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

Continuing Calibration Report for SequenceID : FC102825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC070059.D**						
Aliphatic C9-C12	7996857.000	60.000	3.277	6.572	133280.950	144785.198	7.946
Aliphatic C12-C16	5964236.000	40.000	6.573	9.973	149105.900	163782.335	8.961
Aliphatic C16-C21	8931229.000	60.000	9.974	13.340	148853.817	161945.502	8.084
Aliphatic C21-C28	10881486.000	80.000	13.341	17.005	136018.575	147142.336	7.560
Aliphatic C28-C40	13484302.000	120.000	17.006	21.959	112369.183	107599.833	-4.432
Aliphatic EPH	47258110.000	360.000	3.277	21.959	131272.528	137884.728	4.795

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Oct 2025 11:59
Client Sample ID:		Operator:	YP/AJ
Data file:	FC070059.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.277	6.572	7996857.000	60.000	ug/ml
Aliphatic C12-C16	6.573	9.973	5964236.000	40.000	ug/ml
Aliphatic C16-C21	9.974	13.340	8931229.000	60.000	ug/ml
Aliphatic C21-C28	13.341	17.005	10881486.000	80.000	ug/ml
Aliphatic C28-C40	17.006	21.959	13484302.000	120.000	ug/ml
Aliphatic EPH	3.277	21.959	47258110.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070059.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 11:59
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 03:45:13 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)	11.639	3243042	18.468 ug/ml
Spiked Amount	50.000		Recovery =	36.94%
12)	S 1-chlorooctadecane (S...	13.074	2497183	18.396 ug/ml
Spiked Amount	50.000		Recovery =	36.79%
	Target Compounds			
1)	T n-Nonane (C9)	3.377	2501892	18.220 ug/ml
2)	T n-Decane (C10)	4.449	2680247	18.644 ug/ml
3)	T A~Naphthalene (C11.7)	6.044	2954563	18.281 ug/ml
4)	T n-Dodecane (C12)	6.472	2814718	18.364 ug/ml
5)	T A~2-methylnaphthalene...	7.103	2904882	18.207 ug/ml
6)	T n-Tetradecane (C14)	8.270	2902965	18.253 ug/ml
7)	T n-Hexadecane (C16)	9.873	3061271	18.166 ug/ml
8)	T n-Octadecane (C18)	11.317	3114110	18.304 ug/ml
10)	T n-Eicosane (C20)	12.627	2951485	18.397 ug/ml
11)	T n-Heneicosane (C21)	13.240	2865634	18.455 ug/ml
13)	T n-Docosane (C22)	13.827	2835316	18.424 ug/ml
14)	T n-Tetracosane (C24)	14.932	2787500	18.384 ug/ml
15)	T n-Hexacosane (C26)	15.954	2661271	18.387 ug/ml
16)	T n-Octacosane (C28)	16.905	2597399	18.780 ug/ml
17)	T n-Tricontane (C30)	17.794	2770012	20.288 ug/ml
18)	T n-Dotriacontane (C32)	18.627	2749646	21.326 ug/ml
19)	T n-Tetratriacontane (C34)	19.410	2481732	21.751 ug/ml
20)	T n-Hexatriacontane (C36)	20.151	2033537	21.027 ug/ml
21)	T n-Octatriacontane (C38)	20.909	1803927	20.697 ug/ml
22)	T n-Tetracontane (C40)	21.859	1645448	20.027 ug/ml

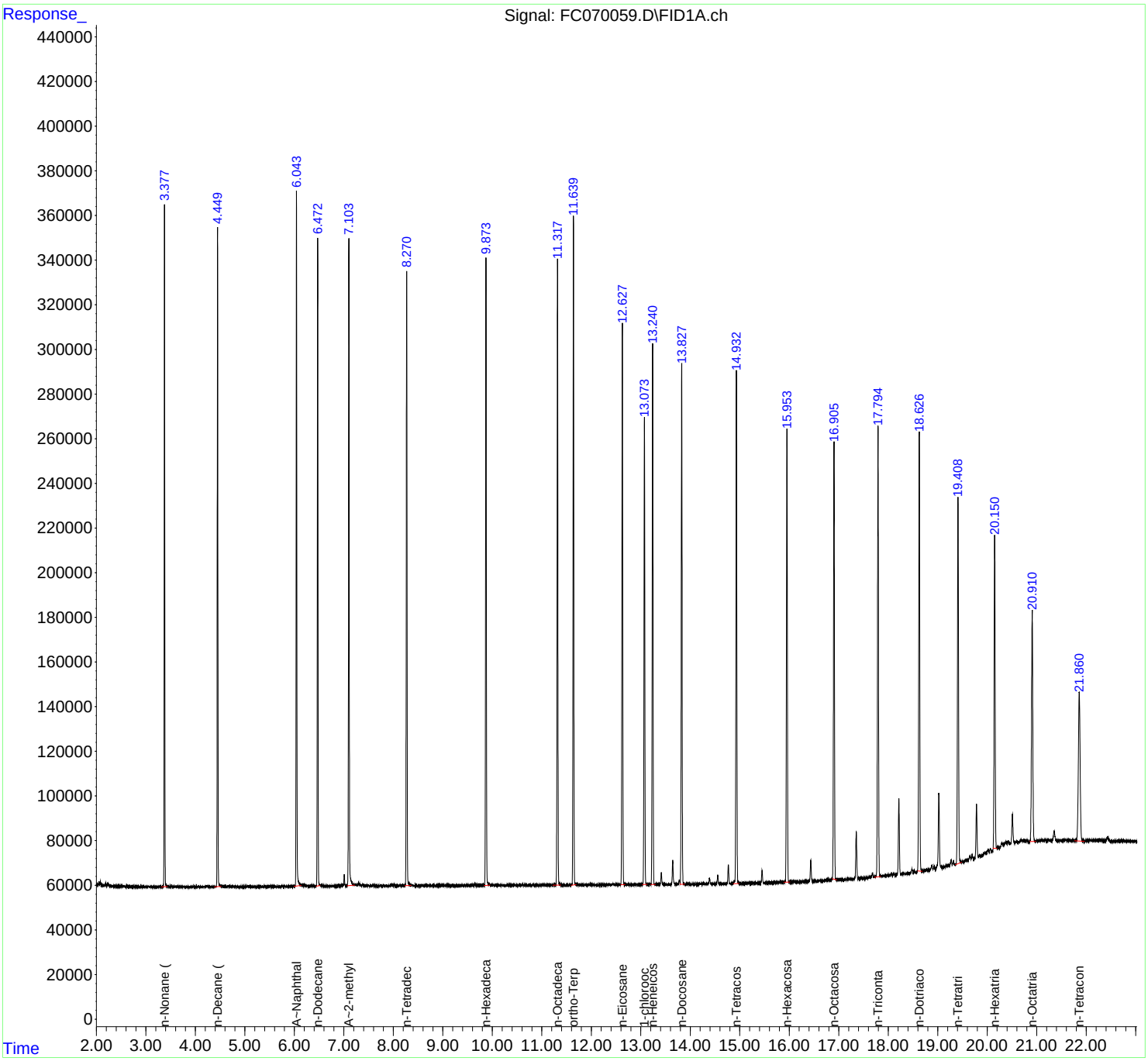
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070059.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 11:59
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 29 03:45:13 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\FC102825AL\
Data File : FC070059.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 11:59
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 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	3.377	3.319	3.439	BB	305536	2501892	77.15%	4.249%
2	4.449	4.387	4.520	BB	295475	2680247	82.65%	4.552%
3	6.044	5.990	6.144	BB	311585	2954563	91.10%	5.018%
4	6.472	6.439	6.525	BB	289519	2814718	86.79%	4.780%
5	7.103	7.062	7.224	BB	289317	2904882	89.57%	4.933%
6	8.270	8.230	8.365	BB	276454	2902965	89.51%	4.930%
7	9.873	9.835	9.955	BB	280480	3061271	94.40%	5.199%
8	11.317	11.224	11.389	BB	280426	3114110	96.02%	5.289%
9	11.639	11.589	11.699	BB	299461	3243042	100.00%	5.507%
10	12.627	12.590	12.682	BB	250892	2951485	91.01%	5.012%
11	13.074	13.034	13.130	BB	209715	2497183	77.00%	4.241%
12	13.240	13.199	13.299	BB	241943	2865634	88.36%	4.867%
13	13.827	13.795	13.885	VB	233068	2835316	87.43%	4.815%
14	14.932	14.864	14.989	BB	229999	2787500	85.95%	4.734%
15	15.954	15.890	16.010	BB	203106	2661271	82.06%	4.520%
16	16.905	16.870	16.967	BB	195840	2597399	80.09%	4.411%
17	17.794	17.719	17.854	BB	201007	2770012	85.41%	4.704%
18	18.627	18.590	18.692	BB	195920	2749646	84.79%	4.670%
19	19.410	19.349	19.482	BB	163198	2481732	76.52%	4.215%
20	20.150	20.112	20.194	M	141020	2059873	63.52%	3.498%
21	20.909	20.860	20.982	BB	103014	1803927	55.62%	3.064%
22	21.859	21.765	21.962	BB	66524	1645448	50.74%	2.794%
			Sum of corrected areas:			58884113		

Aliphatic EPH 100725.M Wed Oct 29 05:03:52 2025

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

Continuing Calibration Report for SequenceID : FC102825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC070069.D**						
Aliphatic C9-C12	8739229.000	60.000	3.277	6.572	145653.817	144785.198	-0.600
Aliphatic C12-C16	6704236.000	40.000	6.573	9.973	167605.900	163782.335	-2.335
Aliphatic C16-C21	10274461.000	60.000	9.974	13.340	171241.017	161945.502	-5.740
Aliphatic C21-C28	12726090.000	80.000	13.341	17.005	159076.125	147142.336	-8.110
Aliphatic C28-C40	15506732.000	120.000	17.006	21.959	129222.767	107599.833	-20.096
Aliphatic EPH	53950748.000	360.000	3.277	21.959	149863.189	137884.728	-8.687

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Oct 2025 20:03
Client Sample ID:		Operator:	YP/AJ
Data file:	FC070069.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.277	6.572	8739229.000	60.000	ug/ml
Aliphatic C12-C16	6.573	9.973	6704236.000	40.000	ug/ml
Aliphatic C16-C21	9.974	13.340	10274461.000	60.000	ug/ml
Aliphatic C21-C28	13.341	17.005	12726090.000	80.000	ug/ml
Aliphatic C28-C40	17.006	21.959	15506732.000	120.000	ug/ml
Aliphatic EPH	3.277	21.959	53950748.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070069.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 20:03
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Integration File: autoint1.e
Quant Time: Oct 29 07:49:54 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)	11.639	3639258	20.724 ug/ml
Spiked Amount	50.000		Recovery =	41.45%
12)	S 1-chlorooctadecane (S...	13.074	2878784	21.208 ug/ml
Spiked Amount	50.000		Recovery =	42.42%
	Target Compounds			
1)	T n-Nonane (C9)	3.379	2706831	19.712 ug/ml
2)	T n-Decane (C10)	4.450	2917678	20.295 ug/ml
3)	T A~Naphthalene (C11.7)	6.043	3228357	19.975 ug/ml
4)	T n-Dodecane (C12)	6.472	3114720	20.321 ug/ml
5)	T A~2-methylnaphthalene...	7.102	3184749	19.961 ug/ml
6)	T n-Tetradecane (C14)	8.270	3243685	20.395 ug/ml
7)	T n-Hexadecane (C16)	9.873	3460551	20.535 ug/ml
8)	T n-Octadecane (C18)	11.317	3559020	20.919 ug/ml
10)	T n-Eicosane (C20)	12.627	3405462	21.227 ug/ml
11)	T n-Heneicosane (C21)	13.240	3309979	21.317 ug/ml
13)	T n-Docosane (C22)	13.827	3296121	21.418 ug/ml
14)	T n-Tetracosane (C24)	14.931	3254433	21.463 ug/ml
15)	T n-Hexacosane (C26)	15.954	3120513	21.559 ug/ml
16)	T n-Octacosane (C28)	16.905	3055023	22.089 ug/ml
17)	T n-Tricontane (C30)	17.794	3269745	23.948 ug/ml
18)	T n-Dotriacontane (C32)	18.627	3214076	24.928 ug/mlm
19)	T n-Tetratriacontane (C34)	19.411	2846171	24.945 ug/mlm
20)	T n-Hexatriacontane (C36)	20.152	2324139	24.032 ug/ml
21)	T n-Octatriacontane (C38)	20.909	2029295	23.283 ug/ml
22)	T n-Tetracontane (C40)	21.858	1823306	22.191 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070069.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 20:03
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

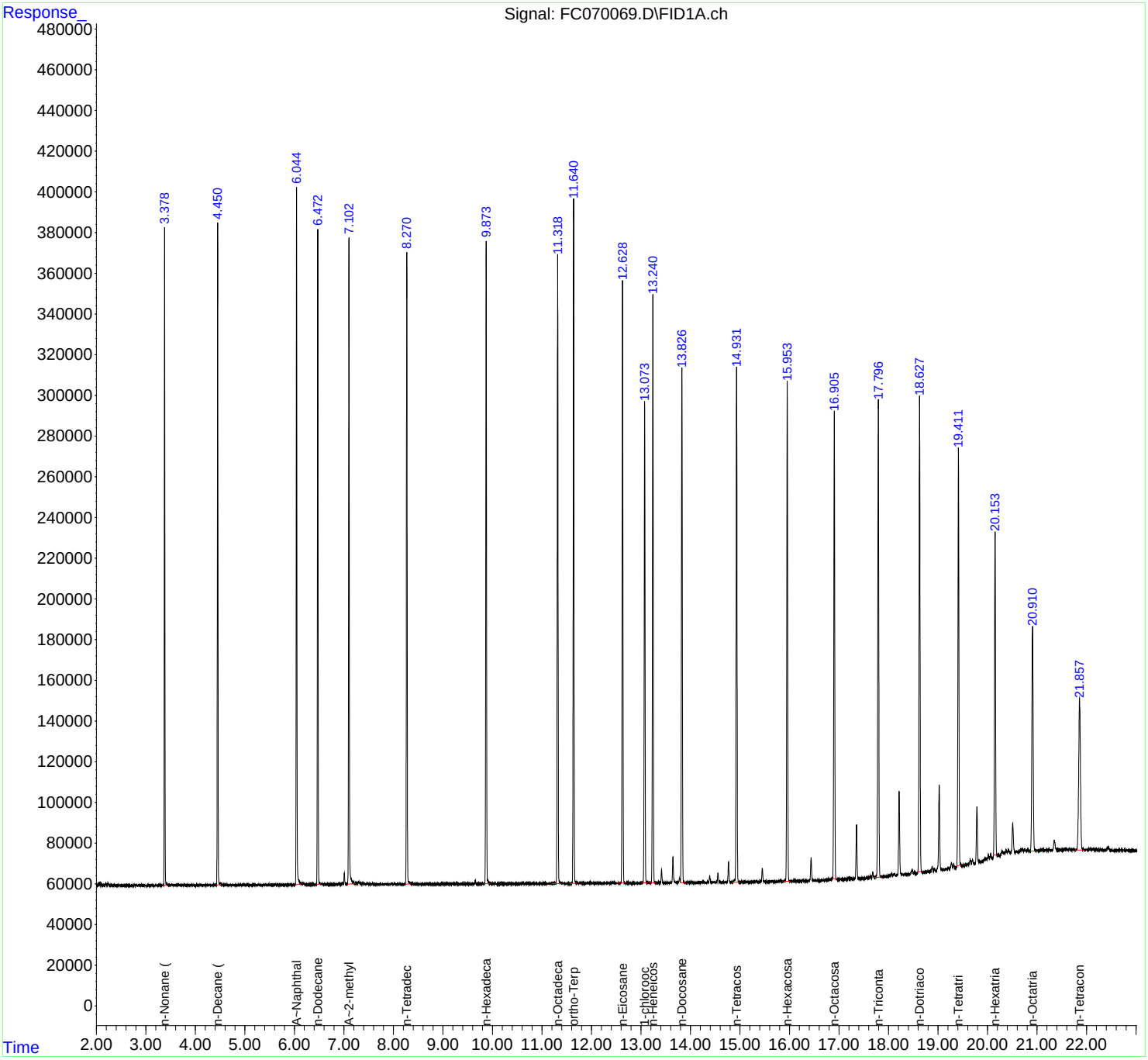
Integration File: autoint1.e
Quant Time: Oct 29 07:49:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 07 09:35:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025



rteres

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10282
Data File : FC070069.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 20:03
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 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	3.379	3.347	3.440	BB	323139	2706831	74.38%	4.043%
2	4.450	4.413	4.512	BB	326240	2917678	80.17%	4.358%
3	6.043	6.013	6.140	BB	341854	3228357	88.71%	4.822%
4	6.472	6.437	6.533	BB	321804	3114720	85.59%	4.652%
5	7.102	7.062	7.215	BB	317868	3184749	87.51%	4.757%
6	8.270	8.235	8.355	BB	310697	3243685	89.13%	4.845%
7	9.873	9.815	9.940	BB	315836	3460551	95.09%	5.169%
8	11.317	11.198	11.393	BB	307561	3559020	97.80%	5.316%
9	11.639	11.570	11.703	BB	337964	3639258	100.00%	5.436%
10	12.627	12.522	12.682	BB	296675	3405462	93.58%	5.086%
11	13.074	13.015	13.130	BB	234021	2878784	79.10%	4.300%
12	13.240	13.170	13.285	BB	288581	3309979	90.95%	4.944%
13	13.827	13.795	13.888	VB	252907	3296121	90.57%	4.923%
14	14.931	14.843	14.995	BB	253514	3254433	89.43%	4.861%
15	15.954	15.892	16.010	BB	245303	3120513	85.75%	4.661%
16	16.905	16.870	16.967	BB	230021	3055023	83.95%	4.563%
17	17.794	17.720	17.855	BB	234930	3269745	89.85%	4.884%
18	18.627	18.590	18.700	BB	233995	3236312	88.93%	4.834%
19	19.412	19.352	19.492	BB	205525	2893396	79.51%	4.322%
20	20.152	20.120	20.198	BV	158099	2324139	63.86%	3.471%
21	20.909	20.860	20.983	BB	110049	2029295	55.76%	3.031%
22	21.858	21.773	21.960	BB	74247	1823306	50.10%	2.723%
			Sum of corrected areas:			66951357		

Aliphatic EPH 100725.M Wed Oct 29 08:09:47 2025

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

Continuing Calibration Report for SequenceID : FE102825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE056535.D**						
Aliphatic C9-C12	8834642.000	60.000	3.240	6.866	147244.033	165077.549	10.803
Aliphatic C12-C16	6204014.000	40.000	6.867	10.314	155100.350	170545.538	9.056
Aliphatic C16-C21	9180601.000	60.000	10.315	13.690	153010.017	178637.984	14.346
Aliphatic C21-C28	11664918.000	80.000	13.691	17.361	145811.475	179089.210	18.582
Aliphatic C28-C40	15384362.000	120.000	17.362	22.315	128203.017	138802.798	7.637
Aliphatic EPH	51268537.000	360.000	3.240	22.315	142412.603	162300.628	12.254

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Oct 2025 12:49
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056535.D	Misc:	
Instrument:	FID_E	ALS Vial:	4
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.240	6.866	8834642.000	60.000	ug/ml
Aliphatic C12-C16	6.867	10.314	6204014.000	40.000	ug/ml
Aliphatic C16-C21	10.315	13.690	9180601.000	60.000	ug/ml
Aliphatic C21-C28	13.691	17.361	11664918.000	80.000	ug/ml
Aliphatic C28-C40	17.362	22.315	15384362.000	120.000	ug/ml
Aliphatic EPH	3.240	22.315	51268537.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE102825AL\
Data File : FE056535.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 12:49
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Integration File: sample.E
Quant Time: Oct 29 04:07:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 28 14:34:40 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)	11.982	3448368	16.880 ug/ml
Spiked Amount	50.000		Recovery =	33.76%
12) S	1-chlorooctadecane (S...	13.422	2555657	16.750 ug/ml
Spiked Amount	50.000		Recovery =	33.50%
	Target Compounds			
1) T	n-Nonane (C9)	3.339	2729136	16.743 ug/ml
2) T	n-Decane (C10)	4.592	2990171	18.183 ug/ml
3) T	A~Naphthalene (C11.7)	6.305	3126080	17.684 ug/ml
4) T	n-Dodecane (C12)	6.765	3115335	18.568 ug/ml
5) T	A~2-methylnaphthalene...	7.405	2997862	17.992 ug/ml
6) T	n-Tetradecane (C14)	8.599	3058698	18.411 ug/ml
7) T	n-Hexadecane (C16)	10.213	3145316	17.978 ug/ml
8) T	n-Octadecane (C18)	11.661	3189250	17.484 ug/ml
10) T	n-Eicosane (C20)	12.975	3033134	17.035 ug/ml
11) T	n-Heneicosane (C21)	13.589	2958217	16.861 ug/ml
13) T	n-Docosane (C22)	14.176	2948359	16.656 ug/ml
14) T	n-Tetracosane (C24)	15.283	2953291	16.232 ug/ml
15) T	n-Hexacosane (C26)	16.307	2896945	16.138 ug/ml
16) T	n-Octacosane (C28)	17.260	2866323	16.112 ug/mlm
17) T	n-Tricontane (C30)	18.148	3053784	16.820 ug/ml
18) T	n-Dotriacontane (C32)	18.982	3092706	17.542 ug/mlm
19) T	n-Tetratriacontane (C34)	19.768	2732577	17.652 ug/ml
20) T	n-Hexatriacontane (C36)	20.510	2350791	18.816 ug/ml
21) T	n-Octatriacontane (C38)	21.264	2125238	20.341 ug/mlm
22) T	n-Tetracontane (C40)	22.210	2029266	22.363 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE102825AL\
Data File : FE056535.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 12:49
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

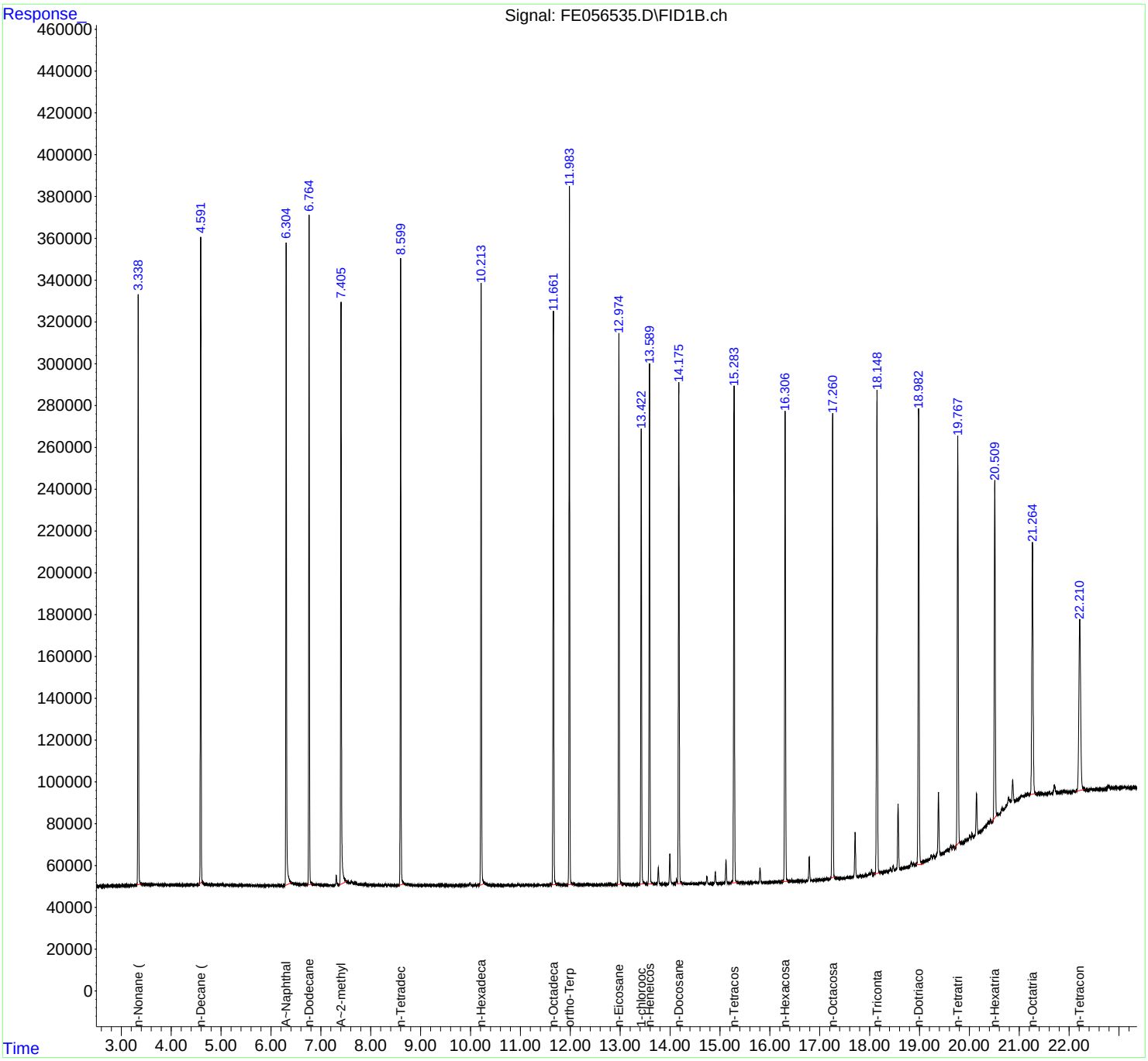
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Integration File: sample.E
Quant Time: Oct 29 04:07:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 28 14:34:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE10282
Data File : FE056535.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 12:49
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.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	3.339	3.309	3.400	BB	282208	2729136	79.14%	4.312%
2	4.592	4.557	4.619	BBA	308169	2990171	86.71%	4.724%
3	6.305	6.275	6.407	BB	306323	3126080	90.65%	4.939%
4	6.765	6.730	6.827	BB	320689	3115335	90.34%	4.922%
5	7.405	7.369	7.514	BB	280508	2997862	86.94%	4.736%
6	8.599	8.565	8.667	BB	299603	3058698	88.70%	4.832%
7	10.213	10.174	10.282	BB	288611	3145316	91.21%	4.969%
8	11.661	11.614	11.727	BB	272950	3189250	92.49%	5.038%
9	11.982	11.945	12.045	BB	332650	3448368	100.00%	5.448%
10	12.975	12.937	13.037	BB	264293	3033134	87.96%	4.792%
11	13.422	13.384	13.489	BB	216765	2555657	74.11%	4.037%
12	13.589	13.552	13.647	BB	248841	2958217	85.79%	4.673%
13	14.176	14.144	14.239	VB	239516	2948359	85.50%	4.658%
14	15.283	15.212	15.347	BB	238106	2953291	85.64%	4.666%
15	16.307	16.242	16.372	BB	224123	2896945	84.01%	4.577%
16	17.260	17.218	17.314	M	222550	2888063	83.75%	4.563%
17	18.148	18.084	18.199	BB	231258	3053784	88.56%	4.824%
18	18.982	18.920	19.020	M	217012	3020620	87.60%	4.772%
19	19.768	19.702	19.799	BBA	194417	2732577	79.24%	4.317%
20	20.510	20.447	20.549	BBA	159097	2350791	68.17%	3.714%
21	21.264	21.191	21.330	M	120247	2106357	61.08%	3.328%
22	22.210	22.145	22.312	M	81696	2000743	58.02%	3.161%
			Sum of corrected areas:			63298755		

Aliphatic EPH 101725.M Wed Oct 29 04:31:07 2025

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

Continuing Calibration Report for SequenceID : FE102825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE056550.D**						
Aliphatic C9-C12	9003004.000	60.000	3.240	6.866	150050.067	165077.549	9.103
Aliphatic C12-C16	6242994.000	40.000	6.867	10.314	156074.850	170545.538	8.485
Aliphatic C16-C21	9090420.000	60.000	10.315	13.690	151507.000	178637.984	15.188
Aliphatic C21-C28	11600360.000	80.000	13.691	17.361	145004.500	179089.210	19.032
Aliphatic C28-C40	15724890.000	120.000	17.362	22.315	131040.750	138802.798	5.592
Aliphatic EPH	51661668.000	360.000	3.240	22.315	143504.633	162300.628	11.581

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Oct 2025 21:27
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056550.D	Misc:	
Instrument:	FID_E	ALS Vial:	4
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.240	6.866	9003004.000	60.000	ug/ml
Aliphatic C12-C16	6.867	10.314	6242994.000	40.000	ug/ml
Aliphatic C16-C21	10.315	13.690	9090420.000	60.000	ug/ml
Aliphatic C21-C28	13.691	17.361	11600360.000	80.000	ug/ml
Aliphatic C28-C40	17.362	22.315	15724890.000	120.000	ug/ml
Aliphatic EPH	3.240	22.315	51661668.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE102825AL\
Data File : FE056550.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 21:27
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Integration File: sample.E
Quant Time: Oct 29 04:24:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 28 14:34:40 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)	11.982	3396318	16.625 ug/ml
Spiked Amount	50.000		Recovery =	33.25%
12) S	1-chlorooctadecane (S...	13.422	2552046	16.726 ug/ml
Spiked Amount	50.000		Recovery =	33.45%
	Target Compounds			
1) T	n-Nonane (C9)	3.338	2777587	17.040 ug/ml
2) T	n-Decane (C10)	4.591	3065438	18.640 ug/ml
3) T	A~Naphthalene (C11.7)	6.304	3176624	17.970 ug/ml
4) T	n-Dodecane (C12)	6.764	3159979	18.834 ug/ml
5) T	A~2-methylnaphthalene...	7.404	3048337	18.295 ug/ml
6) T	n-Tetradecane (C14)	8.599	3085961	18.575 ug/ml
7) T	n-Hexadecane (C16)	10.213	3157033	18.044 ug/ml
8) T	n-Octadecane (C18)	11.660	3173350	17.396 ug/ml
10) T	n-Eicosane (C20)	12.974	2999920	16.849 ug/ml
11) T	n-Heneicosane (C21)	13.588	2917150	16.627 ug/ml
13) T	n-Docosane (C22)	14.176	2905811	16.416 ug/ml
14) T	n-Tetracosane (C24)	15.283	2935958	16.137 ug/ml
15) T	n-Hexacosane (C26)	16.307	2884013	16.066 ug/ml
16) T	n-Octacosane (C28)	17.259	2874578	16.159 ug/mlm
17) T	n-Tricontane (C30)	18.149	3079640	16.962 ug/ml
18) T	n-Dotriacontane (C32)	18.982	3106010	17.618 ug/mlm
19) T	n-Tetratriacontane (C34)	19.769	2788347	18.013 ug/ml
20) T	n-Hexatriacontane (C36)	20.509	2430703	19.456 ug/ml
21) T	n-Octatriacontane (C38)	21.264	2200803	21.064 ug/mlm
22) T	n-Tetracontane (C40)	22.210	2119387	23.356 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE102825AL\
Data File : FE056550.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 21:27
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

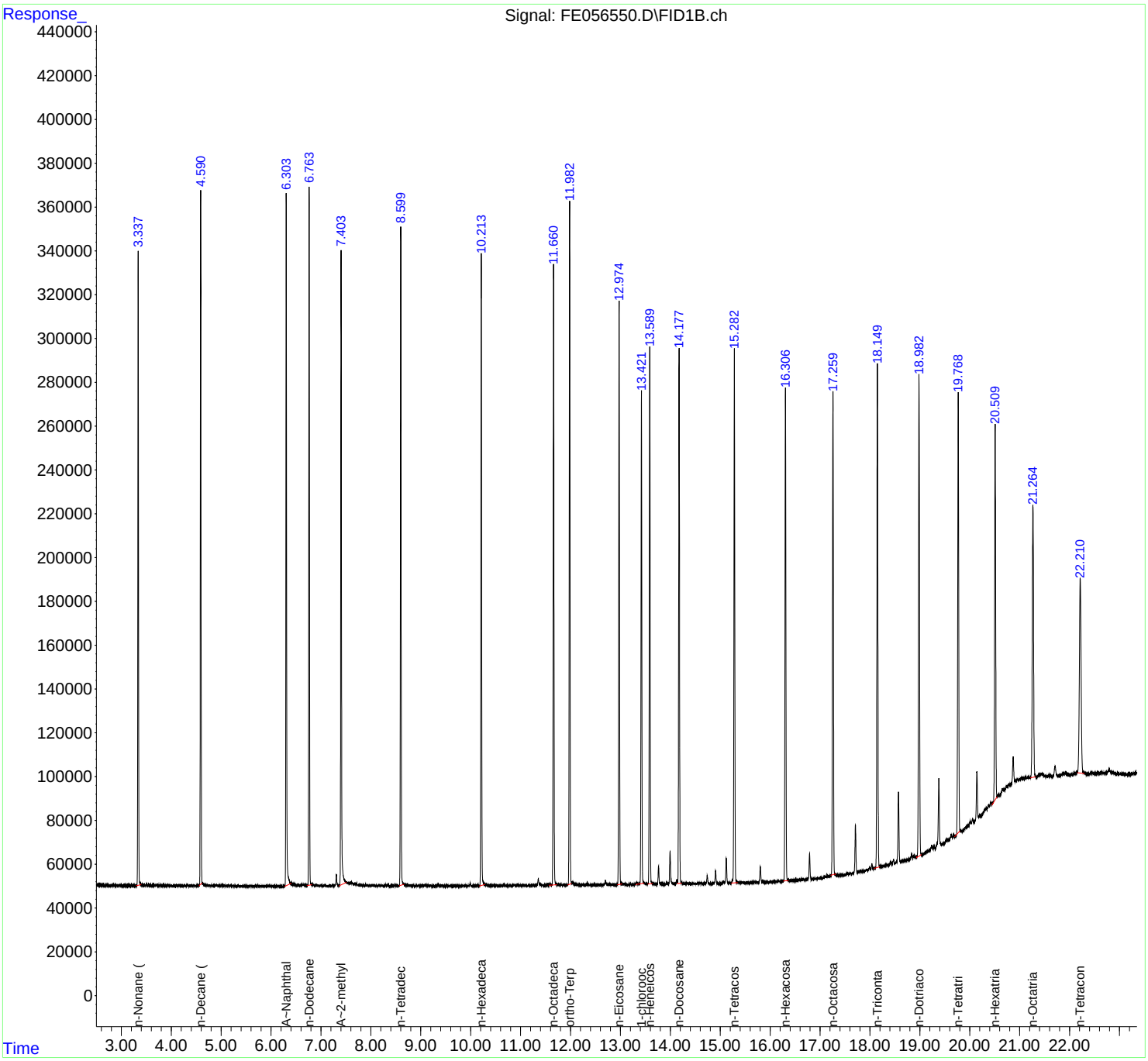
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Integration File: sample.E
Quant Time: Oct 29 04:24:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.M
Quant Title : GC Extractables
QLast Update : Tue Oct 28 14:34:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/29/2025
Supervised By :Sohil Jodhani 10/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE10282
Data File : FE056550.D
Signal(s) : FID1B.ch
Acq On : 28 Oct 2025 21:27
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 101725.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	3.338	3.299	3.395	BB	288961	2777587	81.78%	4.348%
2	4.591	4.557	4.619	BBA	316699	3065438	90.26%	4.798%
3	6.304	6.274	6.400	BB	315722	3176624	93.53%	4.972%
4	6.764	6.724	6.817	BB	318217	3159979	93.04%	4.946%
5	7.404	7.365	7.507	BB	288603	3048337	89.75%	4.772%
6	8.599	8.565	8.664	BB	300485	3085961	90.86%	4.831%
7	10.213	10.172	10.287	BB	287794	3157033	92.95%	4.942%
8	11.660	11.567	11.725	BB	282298	3173350	93.44%	4.967%
9	11.982	11.940	12.024	BV	311297	3396318	100.00%	5.316%
10	12.974	12.937	13.030	BB	265148	2999920	88.33%	4.696%
11	13.422	13.302	13.477	BB	225510	2552046	75.14%	3.995%
12	13.588	13.549	13.642	BB	245318	2917150	85.89%	4.566%
13	14.176	14.144	14.230	VB	245206	2905811	85.56%	4.549%
14	15.283	15.219	15.347	BB	243198	2935958	86.45%	4.596%
15	16.307	16.265	16.364	BB	223410	2884013	84.92%	4.514%
16	17.259	17.202	17.315	M	221476	2922067	86.04%	4.574%
17	18.149	18.084	18.199	BB	229361	3079640	90.68%	4.821%
18	18.982	18.927	19.048	M	220087	3112899	91.66%	4.873%
19	19.769	19.697	19.799	BBA	200599	2788347	82.10%	4.365%
20	20.509	20.452	20.549	BBA	171153	2430703	71.57%	3.805%
21	21.264	21.219	21.324	M	124299	2200169	64.78%	3.444%
22	22.210	22.152	22.272	M	89080	2114981	62.27%	3.311%
			Sum of corrected areas:			63884331		

Aliphatic EPH 101725.M Wed Oct 29 04:34:13 2025

QC SAMPLE DATA

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	PB170266BL			SDG No.:	Q3466
Lab Sample ID:	PB170266BL			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.01 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date :	10/28/25		

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	FC070060.D	10/28/25 13:19	PB170266
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	4.00	mg/kg	FC070060.D	10/28/25 13:19	PB170266
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

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	PB170266BL			SDG No.:	Q3466
Lab Sample ID:	PB170266BL			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.01 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date	10/28/25		

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	10/28/25	PB170266
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	10/28/25	PB170266
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	38.0			40 - 140	76%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	37.2			40 - 140	74%	SPK: 50		

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170266BL	Acq On:	28 Oct 2025 13:19
Client Sample ID:	PB170266BL	Operator:	YP/AJ
Data file:	FC070060.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	3.277	6.572	0	0	300	ug/ml
Aliphatic C12-C16	6.573	9.973	0	0	200	ug/ml
Aliphatic C16-C21	9.974	13.340	0	0	300	ug/ml
Aliphatic C21-C28	13.341	17.005	0	0	400	ug/ml
Aliphatic C28-C40	17.006	21.959	0	0	600	ug/ml
Aliphatic EPH	3.277	21.959	0	0		ug/ml
ortho-Terphenyl (SURR)	11.642	11.642	6533927	37.21		ug/ml
1-chlorooctadecane (SURR)	13.077	13.077	5156082	37.98		ug/ml
Aliphatic C9-C28	3.277	17.005	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070060.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 13:19
Operator : YP/AJ
Sample : PB170266BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170266BL

Integration File: autoint1.e
Quant Time: Oct 29 03:45:45 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	6533927	37.208 ug/ml
Spiked Amount 50.000		Recovery =	74.42%
12) S 1-chlorooctadecane (S...	13.077	5156082	37.984 ug/ml
Spiked Amount 50.000		Recovery =	75.97%
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

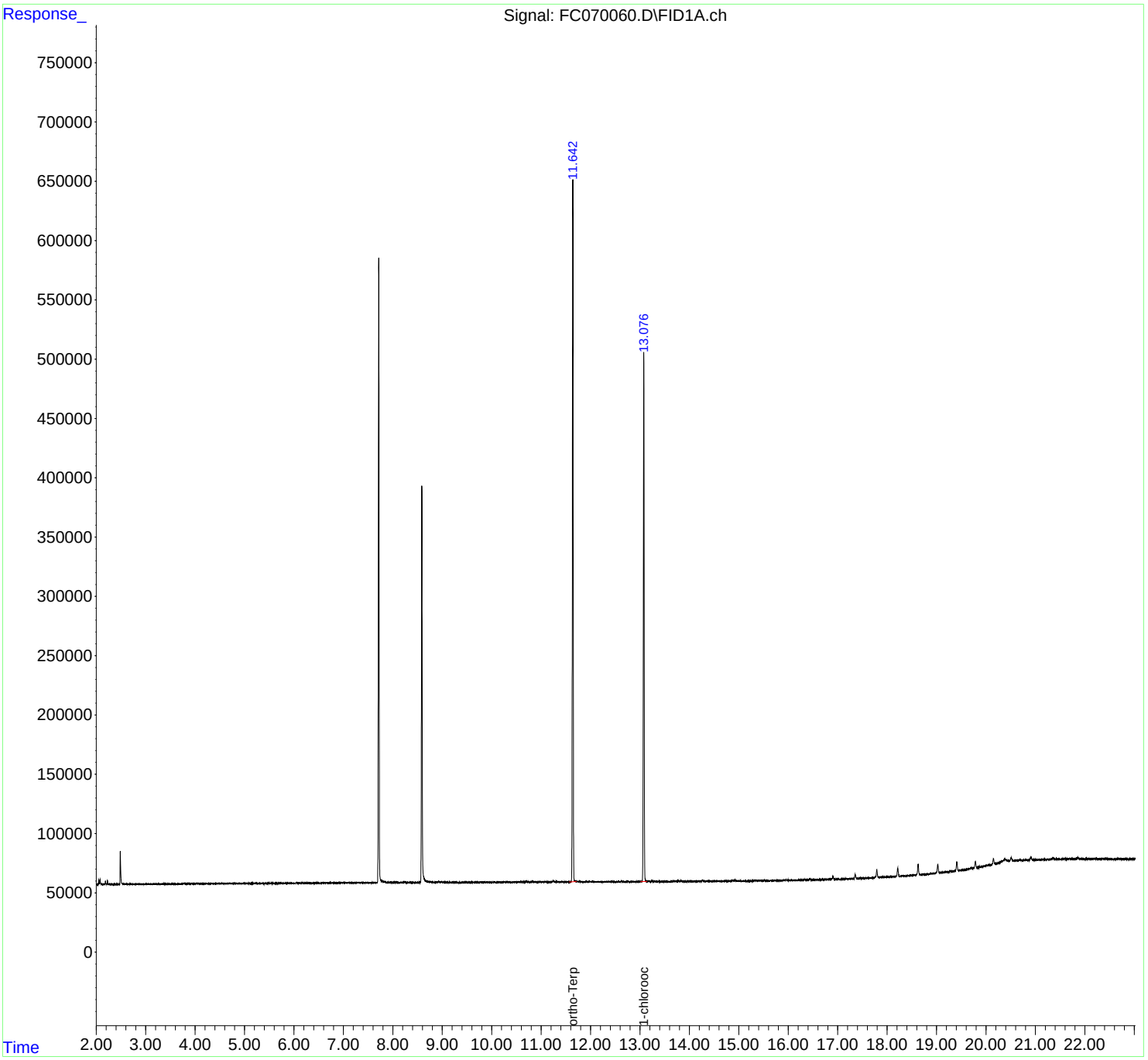
Quantitation Report (QT Reviewed)

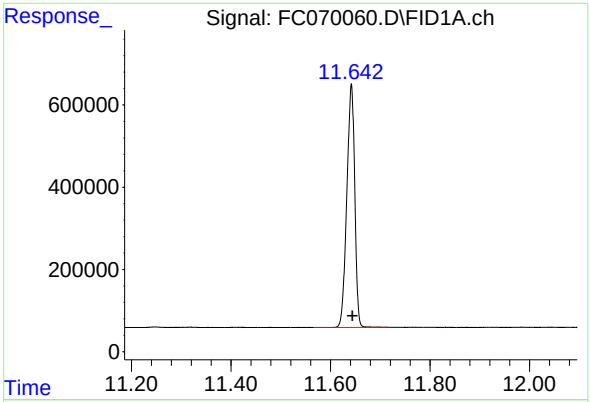
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070060.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 13:19
Operator : YP/AJ
Sample : PB170266BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170266BL

Integration File: autoint1.e
Quant Time: Oct 29 03:45:45 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

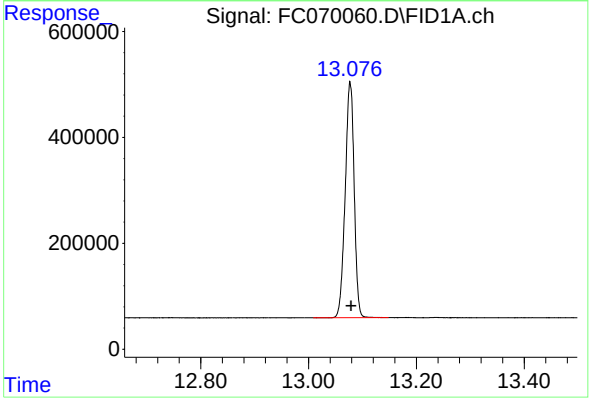




#9 ortho-Terphenyl (SURR)

R.T.: 11.642 min
Delta R.T.: -0.002 min
Response: 6533927
Conc: 37.21 ug/ml

Instrument :
FID_C
ClientSampleId :
PB170266BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.077 min
Delta R.T.: -0.002 min
Response: 5156082
Conc: 37.98 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070060.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 13:19
Sample : PB170266BL
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	11.642	11.565	11.717	BB	592865	6533927	100.00%	55.893%
2	13.077	13.008	13.148	BB	445378	5156082	78.91%	44.107%

Sum of corrected areas: 11690009

Aliphatic EPH 100725.M Wed Oct 29 05:04:23 2025

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	PB170266BS			SDG No.:	Q3466
Lab Sample ID:	PB170266BS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.03 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date :	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	28.0		1	1.18	2.00	mg/kg	FC070061.D	10/28/25 13:58	PB170266
Aliphatic C9-C28	Aliphatic C9-C28	68.7		1	0.91	3.99	mg/kg	FC070061.D	10/28/25 13:58	PB170266
Total AliphaticEPH	Total AliphaticEPH	96.7			2.09	5.99	mg/kg			
Total EPH	Total EPH	96.7			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

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	PB170266BS			SDG No.:	Q3466
Lab Sample ID:	PB170266BS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.03 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	68.7		1	0.91	3.99	mg/kg	10/28/25	PB170266
Aliphatic C28-C40	Aliphatic C28-C40	28.0		1	1.18	2.00	mg/kg	10/28/25	PB170266
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	38.9			40 - 140	78%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	37.5			40 - 140	75%	SPK: 50		

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170266BS	Acq On:	28 Oct 2025 13:58
Client Sample ID:	PB170266BS	Operator:	YP/AJ
Data file:	FC070061.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	3.277	6.572	27086070	187.078	300	ug/ml
Aliphatic C12-C16	6.573	9.973	38554021	235.398	200	ug/ml
Aliphatic C16-C21	9.974	13.340	43992052	271.647	300	ug/ml
Aliphatic C21-C28	13.341	17.005	49567846	336.87	400	ug/ml
Aliphatic C28-C40	17.006	21.959	45168703	419.784	600	ug/ml
Aliphatic EPH	3.277	21.959	204368692	1450		ug/ml
ortho-Terphenyl (SURR)	11.643	11.643	6583185	37.49		ug/ml
1-chlorooctadecane (SURR)	13.076	13.076	5277309	38.88		ug/ml
Aliphatic C9-C28	3.277	17.005	159199989	1030	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070061.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 13:58
Operator : YP/AJ
Sample : PB170266BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170266BS

Integration File: autoint1.e
Quant Time: Oct 29 03:46:06 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	6583185	37.489 ug/ml
Spiked Amount	50.000		Recovery =	74.98%
12)	S 1-chlorooctadecane (S...	13.076	5277309	38.877 ug/ml
Spiked Amount	50.000		Recovery =	77.75%
	Target Compounds			
1)	T n-Nonane (C9)	3.387	4650479	33.867 ug/ml
2)	T n-Decane (C10)	4.455	5059400	35.193 ug/ml
3)	T A~Naphthalene (C11.7)	6.046	6153980	38.078 ug/ml
4)	T n-Dodecane (C12)	6.474	5635226	36.765 ug/ml
5)	T A~2-methylnaphthalene...	7.105	5941085	37.236 ug/ml
6)	T n-Tetradecane (C14)	8.274	6090686	38.296 ug/ml
7)	T n-Hexadecane (C16)	9.875	6443448	38.235 ug/ml
8)	T n-Octadecane (C18)	11.320	6465010	38.001 ug/ml
10)	T n-Eicosane (C20)	12.631	6501061	40.522 ug/ml
11)	T n-Heneicosane (C21)	13.244	6220754	40.063 ug/ml
13)	T n-Docosane (C22)	13.831	6083189	39.528 ug/ml
14)	T n-Tetracosane (C24)	14.931	11419021	75.308 ug/ml
15)	T n-Hexacosane (C26)	15.958	5570515	38.486 ug/ml
16)	T n-Octacosane (C28)	16.908	5285816	38.219 ug/ml
17)	T n-Tricontane (C30)	17.797	5235733	38.347 ug/ml
18)	T n-Dotriacontane (C32)	18.629	5101590	39.568 ug/ml
19)	T n-Tetratriacontane (C34)	19.414	5187390	45.464 ug/ml
20)	T n-Hexatriacontane (C36)	20.155	4854069	50.191 ug/ml
21)	T n-Octatriacontane (C38)	20.912	5009101	57.471 ug/ml
22)	T n-Tetracontane (C40)	21.863	4904253	59.690 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

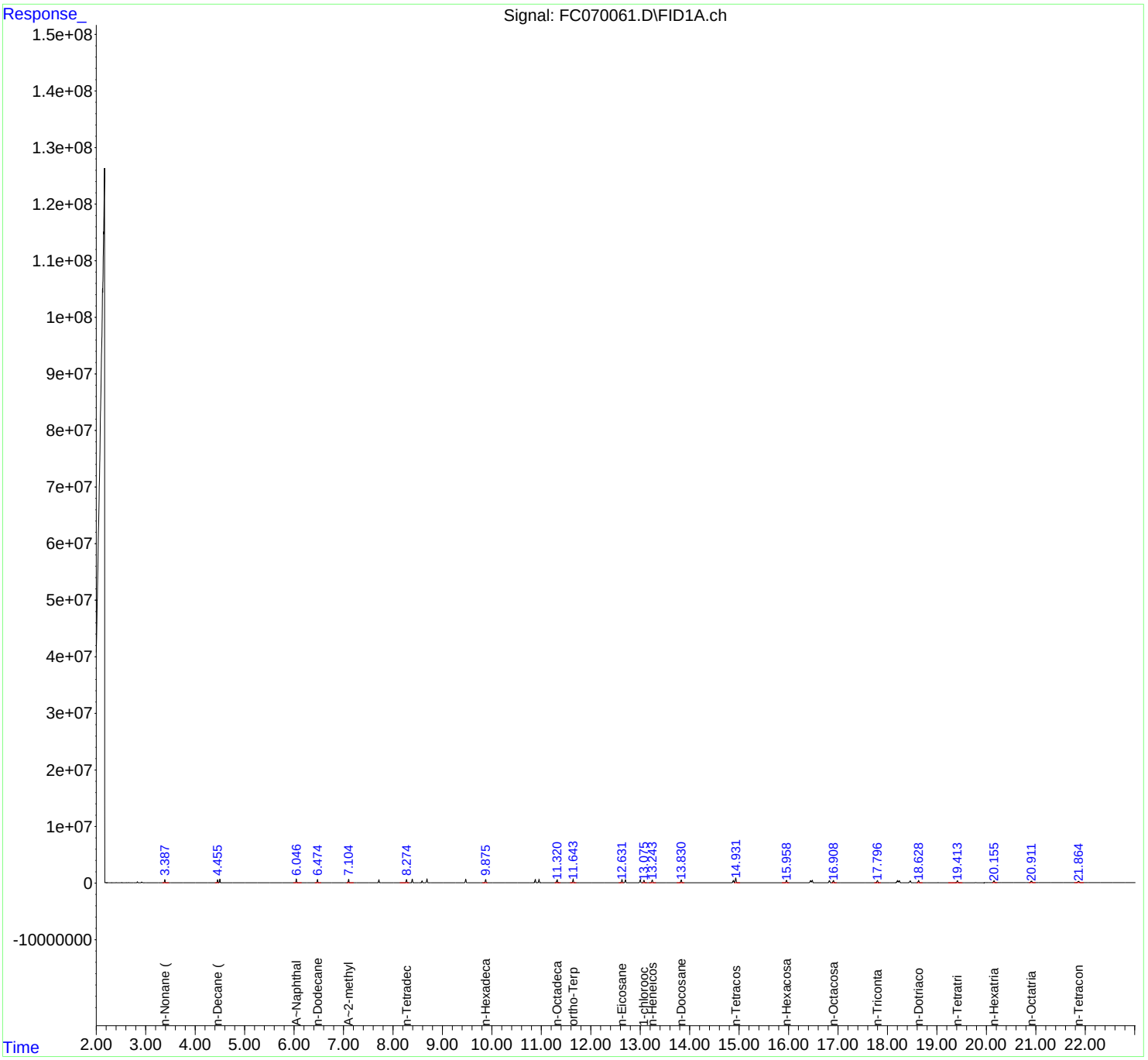
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070061.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 13:58
Operator : YP/AJ
Sample : PB170266BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170266BS

Integration File: autoint1.e
Quant Time: Oct 29 03:46:06 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070061.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 13:58
Sample : PB170266BS
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	3.387	3.337	3.467	BB	558475	4650479	40.73%	2.151%
2	4.455	4.402	4.477	BV	565217	5059400	44.31%	2.340%
3	4.500	4.477	4.543	VV	636800	5586985	48.93%	2.584%
4	6.046	5.985	6.152	BB	664107	6153980	53.89%	2.846%
5	6.474	6.420	6.547	BB	577243	5635226	49.35%	2.606%
6	7.105	7.059	7.205	BB	602491	5941085	52.03%	2.748%
7	8.274	8.140	8.327	BB	565703	6090686	53.34%	2.817%
8	8.390	8.327	8.474	BB	651603	6612135	57.90%	3.058%
9	8.688	8.655	8.787	VB	661309	6711613	58.78%	3.104%
10	9.473	9.414	9.575	BB	618682	6755054	59.16%	3.124%
11	9.875	9.809	9.909	BV	583012	6443448	56.43%	2.980%
12	10.879	10.795	10.920	BV	597536	6408272	56.12%	2.964%
13	10.955	10.920	11.054	VB	580075	6363879	55.73%	2.943%
14	11.320	11.270	11.387	BB	567160	6465010	56.62%	2.990%
15	11.643	11.580	11.709	BB	597465	6583185	57.65%	3.045%
16	12.631	12.565	12.664	BV	567190	6501061	56.93%	3.007%
17	12.701	12.664	12.789	VB	533707	6044081	52.93%	2.795%
18	13.002	12.930	13.035	BV	525382	5988995	52.45%	2.770%
19	13.076	13.035	13.135	VB	445144	5277309	46.22%	2.441%
20	13.244	13.179	13.319	BB	490391	6220754	54.48%	2.877%
21	13.831	13.740	13.892	BB	511350	6083189	53.27%	2.813%
22	14.884	14.812	14.903	BV	415063	5488473	48.06%	2.538%
23	14.931	14.903	15.020	VB	856441	11419021	100.00%	5.281%
24	15.958	15.865	16.010	BB	419343	5570515	48.78%	2.576%
25	16.446	16.370	16.461	BV	369234	5307897	46.48%	2.455%
26	16.480	16.461	16.572	VB	436828	5345003	46.81%	2.472%
27	16.827	16.754	16.869	BBA	370479	5067932	44.38%	2.344%
28	16.908	16.870	16.974	BB	397809	5285816	46.29%	2.445%
29	17.797	17.732	17.865	BB	396781	5235733	45.85%	2.421%
30	18.205	18.120	18.219	BV	365526	5187899	45.43%	2.399%
31	18.239	18.219	18.367	VB	346456	4891594	42.84%	2.262%
32	18.462	18.380	18.572	BB	331725	4797074	42.01%	2.219%
33	18.629	18.590	18.709	BB	351973	5101590	44.68%	2.359%
34	19.414	19.229	19.515	BB	351121	5187390	45.43%	2.399%
35	20.155	20.120	20.222	BB	331684	4854069	42.51%	2.245%
36	20.912	20.860	20.995	BB	274385	5009101	43.87%	2.317%

rteres

37	21.863	21.775	21.967	BB	192289	4904253	42.95%	2.268%

Sum of corrected areas: 216229185

Aliphatic EPH 100725.M Wed Oct 29 05:05:41 2025

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	PB170266BSD			SDG No.:	Q3466
Lab Sample ID:	PB170266BSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.02 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date :	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	28.8		1	1.18	2.00	mg/kg	FC070062.D	10/28/25 14:38	PB170266
Aliphatic C9-C28	Aliphatic C9-C28	70.8		1	0.91	3.99	mg/kg	FC070062.D	10/28/25 14:38	PB170266
Total AliphaticEPH	Total AliphaticEPH	99.6			2.09	5.99	mg/kg			
Total EPH	Total EPH	99.6			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

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	PB170266BSD			SDG No.:	Q3466
Lab Sample ID:	PB170266BSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.02 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	70.8		1	0.91	3.99	mg/kg	10/28/25	PB170266
Aliphatic C28-C40	Aliphatic C28-C40	28.8		1	1.18	2.00	mg/kg	10/28/25	PB170266
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	40.4			40 - 140	81%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	38.7			40 - 140	77%	SPK: 50		

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB170266BSD	Acq On:	28 Oct 2025 14:38
Client Sample ID:	PB170266BSD	Operator:	YP/AJ
Data file:	FC070062.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	3.277	6.572	28002737	193.409	300	ug/ml
Aliphatic C12-C16	6.573	9.973	39866210	243.41	200	ug/ml
Aliphatic C16-C21	9.974	13.340	45355285	280.065	300	ug/ml
Aliphatic C21-C28	13.341	17.005	50818993	345.373	400	ug/ml
Aliphatic C28-C40	17.006	21.959	46536620	432.497	600	ug/ml
Aliphatic EPH	3.277	21.959	210579845	1490		ug/ml
ortho-Terphenyl (SURR)	11.643	11.643	6788843	38.66		ug/ml
1-chlorooctadecane (SURR)	13.078	13.078	5478491	40.36		ug/ml
Aliphatic C9-C28	3.277	17.005	164043225	1060	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070062.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 14:38
Operator : YP/AJ
Sample : PB170266BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170266BSD

Integration File: autoint1.e
Quant Time: Oct 29 03:46:39 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	6788843	38.660 ug/ml
Spiked Amount	50.000		Recovery =	77.32%
12)	S 1-chlorooctadecane (S...	13.078	5478491	40.359 ug/ml
Spiked Amount	50.000		Recovery =	80.72%
	Target Compounds			
1)	T n-Nonane (C9)	3.388	4802337	34.973 ug/ml
2)	T n-Decane (C10)	4.456	5239712	36.447 ug/ml
3)	T A~Naphthalene (C11.7)	6.047	6350997	39.297 ug/ml
4)	T n-Dodecane (C12)	6.475	5845462	38.137 ug/ml
5)	T A~2-methylnaphthalene...	7.105	6125621	38.393 ug/ml
6)	T n-Tetradecane (C14)	8.274	6343256	39.884 ug/ml
7)	T n-Hexadecane (C16)	9.876	6712913	39.834 ug/ml
8)	T n-Octadecane (C18)	11.320	6736591	39.597 ug/ml
10)	T n-Eicosane (C20)	12.632	6767348	42.182 ug/ml
11)	T n-Heneicosane (C21)	13.244	6467043	41.649 ug/ml
13)	T n-Docosane (C22)	13.831	6317736	41.052 ug/ml
14)	T n-Tetracosane (C24)	14.931	11721933	77.306 ug/ml
15)	T n-Hexacosane (C26)	15.958	5749384	39.722 ug/ml
16)	T n-Octacosane (C28)	16.907	5459099	39.472 ug/ml
17)	T n-Tricontane (C30)	17.798	5417062	39.676 ug/ml
18)	T n-Dotriacontane (C32)	18.630	5290602	41.034 ug/ml
19)	T n-Tetratriacontane (C34)	19.415	5381965	47.169 ug/ml
20)	T n-Hexatriacontane (C36)	20.156	5014123	51.846 ug/ml
21)	T n-Octatriacontane (C38)	20.913	5115981	58.697 ug/ml
22)	T n-Tetracontane (C40)	21.867	4987694	60.705 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

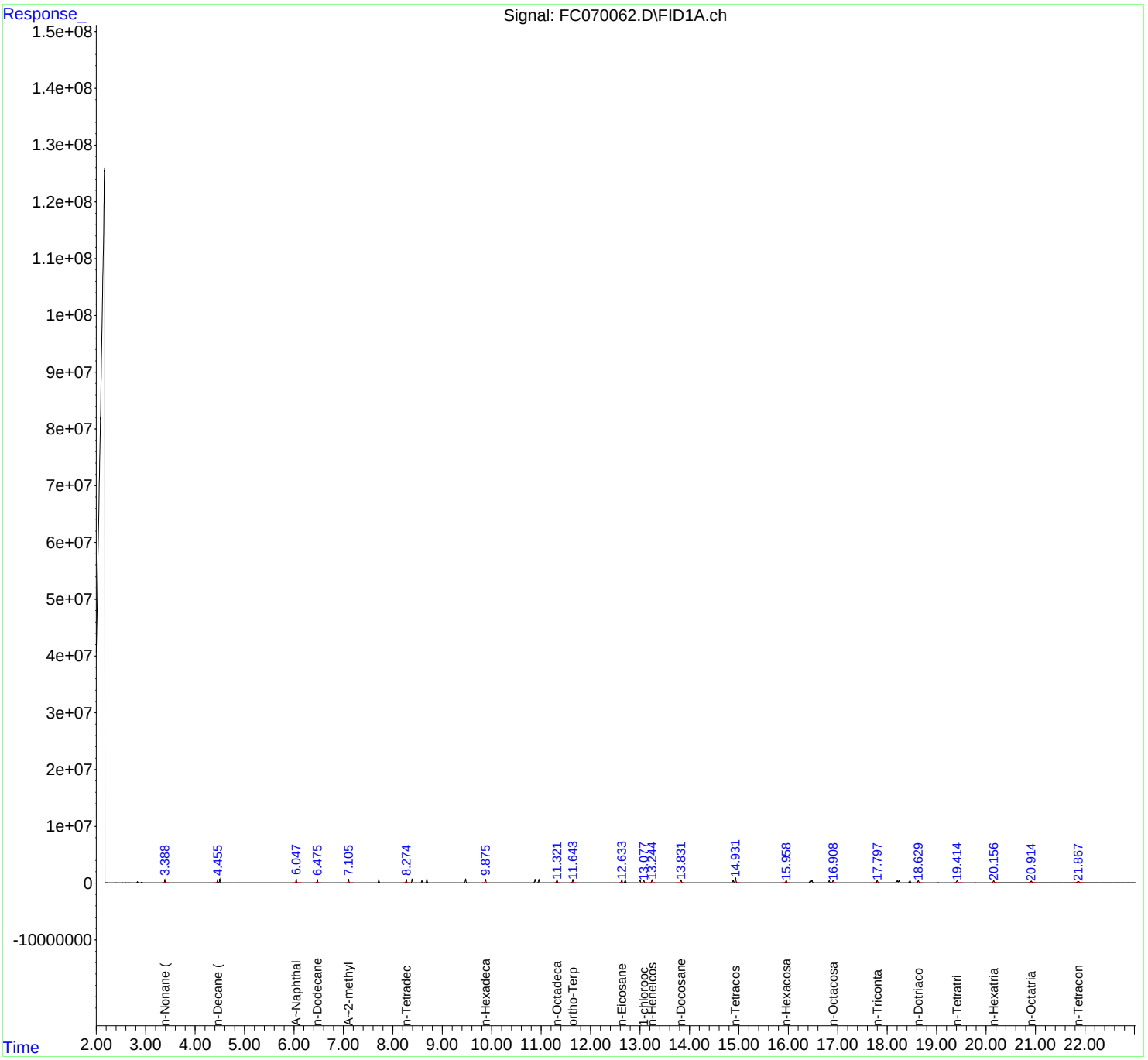
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070062.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 14:38
Operator : YP/AJ
Sample : PB170266BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB170266BSD

Integration File: autoint1.e
Quant Time: Oct 29 03:46:39 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070062.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 14:38
Sample : PB170266BSD
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	3.388	3.337	3.465	BB	586480	4802337	40.97%	2.155%
2	4.456	4.399	4.477	BV	589167	5239712	44.70%	2.351%
3	4.500	4.477	4.543	VV	658008	5764229	49.17%	2.587%
4	6.047	5.985	6.155	BB	693006	6350997	54.18%	2.850%
5	6.475	6.415	6.547	BB	601050	5845462	49.87%	2.623%
6	7.105	7.057	7.200	BB	615853	6125621	52.26%	2.749%
7	8.274	8.194	8.342	BB	609153	6343256	54.11%	2.846%
8	8.390	8.342	8.477	BB	669072	6814280	58.13%	3.058%
9	8.689	8.655	8.789	VB	665425	6916914	59.01%	3.104%
10	9.473	9.414	9.579	BB	654808	6953226	59.32%	3.120%
11	9.876	9.809	9.909	BV	608576	6712913	57.27%	3.012%
12	10.879	10.794	10.922	BV	589457	6571809	56.06%	2.949%
13	10.956	10.922	11.072	VB	567505	6529509	55.70%	2.930%
14	11.320	11.274	11.389	BB	569730	6736591	57.47%	3.023%
15	11.643	11.580	11.714	BB	602018	6788843	57.92%	3.046%
16	12.632	12.565	12.664	BV	584119	6767348	57.73%	3.037%
17	12.703	12.664	12.797	VB	556082	6172453	52.66%	2.770%
18	13.003	12.930	13.036	BV	532776	6110532	52.13%	2.742%
19	13.078	13.036	13.142	VB	466486	5478491	46.74%	2.458%
20	13.244	13.170	13.312	BB	552785	6467043	55.17%	2.902%
21	13.831	13.737	13.892	BB	506729	6317736	53.90%	2.835%
22	14.884	14.819	14.904	BV	417359	5595880	47.74%	2.511%
23	14.931	14.904	15.017	VB	901870	11721933	100.00%	5.260%
24	15.958	15.869	16.014	BB	439279	5749384	49.05%	2.580%
25	16.446	16.370	16.461	BV	375872	5408867	46.14%	2.427%
26	16.480	16.461	16.565	VB	443009	5417489	46.22%	2.431%
27	16.828	16.750	16.869	BBA	411793	5148605	43.92%	2.310%
28	16.907	16.870	16.967	BB	404043	5459099	46.57%	2.450%
29	17.798	17.730	17.859	BB	392556	5417062	46.21%	2.431%
30	18.205	18.120	18.220	BV	360844	5379958	45.90%	2.414%
31	18.241	18.220	18.374	VB	380205	5064465	43.21%	2.273%
32	18.461	18.389	18.577	BB	335520	4884770	41.67%	2.192%
33	18.630	18.590	18.717	BB	368216	5290602	45.13%	2.374%
34	19.415	19.345	19.529	BB	349415	5381965	45.91%	2.415%
35	20.156	20.120	20.224	BB	341196	5014123	42.78%	2.250%
36	20.913	20.860	20.992	BB	281939	5115981	43.64%	2.296%

rteres

37	21.867	21.770	21.960	BB	200855	4987694	42.55%	2.238%

Sum of corrected areas: 222847176

Aliphatic EPH 100725.M Wed Oct 29 05:07:02 2025

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	TP-13MS			SDG No.:	Q3466
Lab Sample ID:	Q3469-01MS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	91.1
Sample Wt/Vol:	30.03 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date :	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	27.5		1	1.29	2.19	mg/kg	FC070065.D	10/28/25 16:39	PB170266
Aliphatic C9-C28	Aliphatic C9-C28	61.2		1	1.00	4.39	mg/kg	FC070065.D	10/28/25 16:39	PB170266
Total AliphaticEPH	Total AliphaticEPH	88.7			2.29	6.58	mg/kg			
Total EPH	Total EPH	88.7			2.29	6.58	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

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	TP-13MS			SDG No.:	Q3466
Lab Sample ID:	Q3469-01MS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	91.1
Sample Wt/Vol:	30.03 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	61.2		1	1.00	4.39	mg/kg	10/28/25	PB170266
Aliphatic C28-C40	Aliphatic C28-C40	27.5		1	1.29	2.19	mg/kg	10/28/25	PB170266
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	30.2			40 - 140	60%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	28.2			40 - 140	56%	SPK: 50		

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3469-01MS	Acq On:	28 Oct 2025 16:39
Client Sample ID:	TP-13MS	Operator:	YP/AJ
Data file:	FC070065.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	3.277	6.572	20253426	139.886	300	ug/ml
Aliphatic C12-C16	6.573	9.973	31495479	192.301	200	ug/ml
Aliphatic C16-C21	9.974	13.340	36192526	223.486	300	ug/ml
Aliphatic C21-C28	13.341	17.005	41412790	281.447	400	ug/ml
Aliphatic C28-C40	17.006	21.959	40417941	375.632	600	ug/ml
Aliphatic EPH	3.277	21.959	169772162	1210		ug/ml
ortho-Terphenyl (SURR)	11.641	11.641	4959543	28.24		ug/ml
1-chlorooctadecane (SURR)	13.076	13.076	4099935	30.2		ug/ml
Aliphatic C9-C28	3.277	17.005	129354221	837.12	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070065.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 16:39
Operator : YP/AJ
Sample : Q3469-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
TP-13MS

Integration File: autoint1.e
Quant Time: Oct 29 07:48:26 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)	11.641	4959543	28.243 ug/ml
Spiked Amount	50.000		Recovery =	56.49%
12) S	1-chlorooctadecane (S...	13.076	4099935	30.204 ug/ml
Spiked Amount	50.000		Recovery =	60.41%
	Target Compounds			
1) T	n-Nonane (C9)	3.378	3116026	22.692 ug/ml
2) T	n-Decane (C10)	4.451	3586581	24.948 ug/ml
3) T	A~Naphthalene (C11.7)	6.045	4684147	28.983 ug/ml
4) T	n-Dodecane (C12)	6.473	4126061	26.919 ug/ml
5) T	A~2-methylnaphthalene...	7.103	4496838	28.184 ug/ml
6) T	n-Tetradecane (C14)	8.273	4623674	29.072 ug/ml
7) T	n-Hexadecane (C16)	9.874	4957225	29.416 ug/ml
8) T	n-Octadecane (C18)	11.319	4993173	29.349 ug/ml
10) T	n-Eicosane (C20)	12.629	4937253	30.774 ug/ml
11) T	n-Heneicosane (C21)	13.242	4820586	31.046 ug/ml
13) T	n-Docosane (C22)	13.829	4718752	30.662 ug/ml
14) T	n-Tetracosane (C24)	14.928	9207348	60.722 ug/ml
15) T	n-Hexacosane (C26)	15.957	4307926	29.763 ug/ml
16) T	n-Octacosane (C28)	16.906	4111065	29.725 ug/ml
17) T	n-Tricontane (C30)	17.796	3976203	29.122 ug/ml
18) T	n-Dotriacontane (C32)	18.628	3819775	29.626 ug/ml
19) T	n-Tetratriacontane (C34)	19.412	3762941	32.979 ug/ml
20) T	n-Hexatriacontane (C36)	20.152	3389119	35.044 ug/ml
21) T	n-Octatriacontane (C38)	20.909	3364543	38.602 ug/ml
22) T	n-Tetracontane (C40)	21.861	3288985	40.030 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

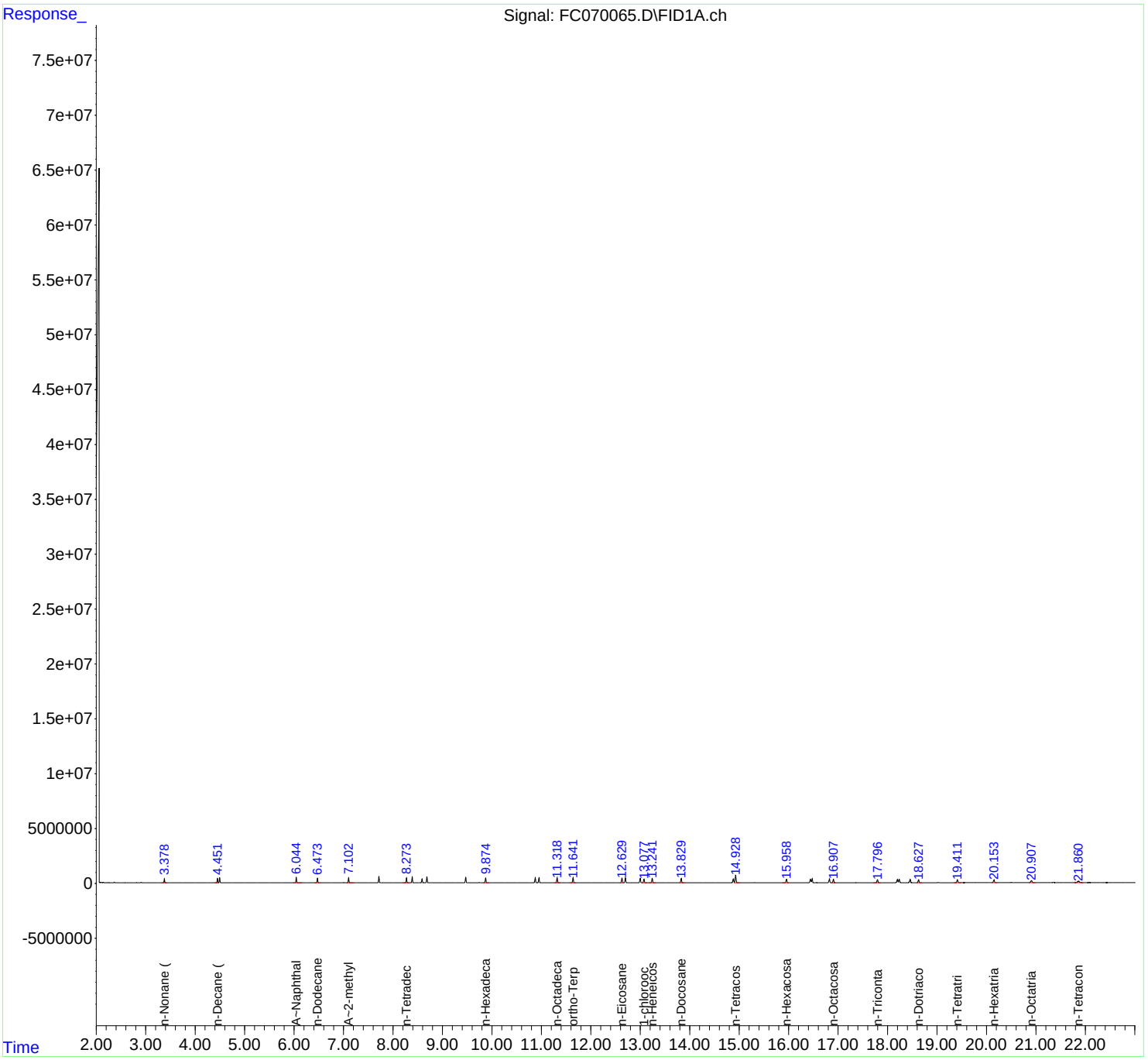
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070065.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 16:39
Operator : YP/AJ
Sample : Q3469-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
TP-13MS

Integration File: autoint1.e
Quant Time: Oct 29 07:48:26 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070065.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 16:39
Sample : Q3469-01MS
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	3.237	3.204	3.251	BV	276	2064	0.02%	0.001%
2	3.266	3.251	3.328	VV	578	9837	0.11%	0.005%
3	3.334	3.328	3.354	PV	35	502	0.01%	0.000%
4	3.378	3.354	3.489	PV	372733	3145662	34.03%	1.757%
5	3.503	3.489	3.516	VV	325	4220	0.05%	0.002%
6	3.529	3.516	3.551	VV	338	4233	0.05%	0.002%
7	3.559	3.551	3.609	VV	179	3512	0.04%	0.002%
8	3.621	3.609	3.630	PV	130	889	0.01%	0.000%
9	3.656	3.630	3.668	VV	306	4337	0.05%	0.002%
10	3.689	3.668	3.720	VV	550	10933	0.12%	0.006%
11	3.734	3.720	3.751	VV	625	6509	0.07%	0.004%
12	3.768	3.751	3.840	VV	5975	56871	0.62%	0.032%
13	3.866	3.840	3.909	VV	4695	45797	0.50%	0.026%
14	3.924	3.909	3.934	VV	258	2441	0.03%	0.001%
15	3.952	3.934	4.014	VV	366	8248	0.09%	0.005%
16	4.053	4.014	4.095	PV	452	13058	0.14%	0.007%
17	4.108	4.095	4.119	VV	213	1974	0.02%	0.001%
18	4.144	4.119	4.158	VV	275	3962	0.04%	0.002%
19	4.191	4.158	4.207	VV	266	5887	0.06%	0.003%
20	4.217	4.207	4.277	VV	333	8452	0.09%	0.005%
21	4.290	4.277	4.328	VV	210	4096	0.04%	0.002%
22	4.345	4.328	4.371	VV	127	2180	0.02%	0.001%
23	4.375	4.371	4.391	VV	198	1385	0.01%	0.001%
24	4.405	4.391	4.418	VV	118	1658	0.02%	0.001%
25	4.451	4.418	4.473	VV	411654	3591070	38.85%	2.005%
26	4.495	4.473	4.540	VV	464790	4119761	44.57%	2.301%
27	4.557	4.540	4.581	VV	4613	53827	0.58%	0.030%
28	4.603	4.581	4.693	VV	7177	87039	0.94%	0.049%
29	4.704	4.693	4.788	VV	312	10783	0.12%	0.006%
30	4.803	4.788	4.819	VV	157	2480	0.03%	0.001%
31	4.828	4.819	4.851	VV	144	1905	0.02%	0.001%
32	4.865	4.851	4.877	VV	118	1266	0.01%	0.001%
33	4.887	4.877	4.915	VV	147	2153	0.02%	0.001%
34	4.924	4.915	4.953	VV	126	1459	0.02%	0.001%
35	4.974	4.953	5.000	VV	101	2045	0.02%	0.001%
36	5.040	5.000	5.068	VV	223	4675	0.05%	0.003%

rteres

37	5.082	5.068	5.098	VV	181	2456	0.03%	0.001%
38	5.107	5.098	5.158	VV	160	4545	0.05%	0.003%
39	5.208	5.158	5.245	VV	240	5833	0.06%	0.003%
40	5.309	5.245	5.368	VV	357	11033	0.12%	0.006%
41	5.387	5.368	5.409	VV	167	2309	0.02%	0.001%
42	5.452	5.409	5.460	PV	163	2998	0.03%	0.002%
43	5.488	5.460	5.510	VV	1330	15697	0.17%	0.009%
44	5.528	5.510	5.587	VV	532	13512	0.15%	0.008%
45	5.599	5.587	5.636	VV	259	6138	0.07%	0.003%
46	5.649	5.636	5.696	VV	343	5596	0.06%	0.003%
47	5.725	5.696	5.773	VV	206	6894	0.07%	0.004%
48	5.785	5.773	5.814	VV	228	3677	0.04%	0.002%
49	5.835	5.814	5.891	VV	332	7869	0.09%	0.004%
50	5.900	5.891	5.958	VV	181	4592	0.05%	0.003%
51	5.965	5.958	5.977	VV	162	1686	0.02%	0.001%
52	5.991	5.977	5.999	VV	177	1762	0.02%	0.001%
53	6.045	5.999	6.173	VV	484821	4726987	51.13%	2.640%
54	6.189	6.173	6.258	VV	789	21087	0.23%	0.012%
55	6.321	6.258	6.365	VV	457	18975	0.21%	0.011%
56	6.380	6.365	6.418	VV	314	7673	0.08%	0.004%
57	6.431	6.418	6.440	VV	264	2758	0.03%	0.002%
58	6.473	6.440	6.534	VV	425140	4143993	44.83%	2.314%
59	6.550	6.534	6.601	VV	878	20087	0.22%	0.011%
60	6.621	6.601	6.656	VV	479	10395	0.11%	0.006%
61	6.677	6.656	6.708	VV	447	8820	0.10%	0.005%
62	6.724	6.708	6.781	VV	526	12287	0.13%	0.007%
63	6.795	6.781	6.848	VV	250	6071	0.07%	0.003%
64	6.896	6.848	6.928	VV	339	8732	0.09%	0.005%
65	6.957	6.928	6.986	VV	3559	52767	0.57%	0.029%
66	7.009	6.986	7.059	VV	12072	133844	1.45%	0.075%
67	7.103	7.059	7.219	VV	448908	4535948	49.07%	2.533%
68	7.239	7.219	7.273	VV	1562	30596	0.33%	0.017%
69	7.295	7.273	7.354	VV	2387	55453	0.60%	0.031%
70	7.370	7.354	7.383	VV	1199	14909	0.16%	0.008%
71	7.397	7.383	7.424	VV	1357	17972	0.19%	0.010%
72	7.460	7.424	7.480	VV	705	14404	0.16%	0.008%
73	7.491	7.480	7.514	VV	491	6474	0.07%	0.004%
74	7.524	7.514	7.547	VV	249	4050	0.04%	0.002%
75	7.575	7.547	7.592	VV	748	10267	0.11%	0.006%
76	7.621	7.592	7.671	VV	386	11604	0.13%	0.006%
77	7.815	7.793	7.844	VV	1028	26978	0.29%	0.015%
78	7.852	7.844	7.912	VV	873	21557	0.23%	0.012%
79	7.925	7.912	7.948	VV	383	6560	0.07%	0.004%
80	7.965	7.948	7.996	VV	520	10995	0.12%	0.006%
81	8.021	7.996	8.058	VV	630	12027	0.13%	0.007%
82	8.090	8.058	8.108	VV	281	6410	0.07%	0.004%
83	8.119	8.108	8.128	VV	240	2494	0.03%	0.001%
84	8.134	8.128	8.148	VV	311	3074	0.03%	0.002%
85	8.172	8.148	8.215	VV	404	10303	0.11%	0.006%
86	8.273	8.215	8.351	VV	456961	4646579	50.26%	2.595%
87	8.389	8.351	8.534	VV	529670	5340270	57.77%	2.982%
88	8.546	8.534	8.553	VV	290	2997	0.03%	0.002%
89	8.686	8.653	8.848	VV	524216	5389719	58.30%	3.010%

rteres

90	8.860	8.848	8.895	VV	399	9349	0.10%	0.005%
91	8.905	8.895	8.940	VV	379	7690	0.08%	0.004%
92	8.964	8.940	9.058	VV	745	29091	0.31%	0.016%
93	9.092	9.058	9.121	VV	1073	16675	0.18%	0.009%
94	9.149	9.121	9.180	VV	333	8706	0.09%	0.005%
95	9.195	9.180	9.234	VV	307	5203	0.06%	0.003%
96	9.244	9.234	9.253	VV	156	1394	0.02%	0.001%
97	9.282	9.253	9.303	VV	180	4023	0.04%	0.002%
98	9.328	9.303	9.353	VV	219	4030	0.04%	0.002%
99	9.368	9.353	9.410	VV	176	3044	0.03%	0.002%
100	9.471	9.410	9.638	PV	506291	5534880	59.87%	3.091%
101	9.683	9.638	9.720	VV	7291	103716	1.12%	0.058%
102	9.746	9.720	9.836	VV	28408	366822	3.97%	0.205%
103	9.874	9.836	9.908	VV	444192	4968558	53.75%	2.775%
104	9.918	9.908	9.958	VV	807	17742	0.19%	0.010%
105	9.978	9.958	10.074	VV	485	16794	0.18%	0.009%
106	10.098	10.074	10.138	VV	1062	14728	0.16%	0.008%
107	10.156	10.138	10.194	VV	364	6303	0.07%	0.004%
108	10.219	10.194	10.247	VV	3343	40257	0.44%	0.022%
109	10.259	10.247	10.284	VV	304	4664	0.05%	0.003%
110	10.318	10.284	10.335	VV	357	6315	0.07%	0.004%
111	10.347	10.335	10.377	VV	234	3628	0.04%	0.002%
112	10.397	10.377	10.437	PV	217	4956	0.05%	0.003%
113	10.445	10.437	10.453	VV	119	864	0.01%	0.000%
114	10.498	10.453	10.507	VV	205	4040	0.04%	0.002%
115	10.530	10.507	10.554	VV	311	5678	0.06%	0.003%
116	10.567	10.554	10.578	VV	247	2642	0.03%	0.001%
117	10.611	10.578	10.651	VV	535	10618	0.11%	0.006%
118	10.679	10.651	10.751	VV	3923	56670	0.61%	0.032%
119	10.762	10.751	10.798	VV	160	2498	0.03%	0.001%
120	10.877	10.798	10.919	VV	480421	5307206	57.41%	2.964%
121	10.953	10.919	11.098	VV	485837	5325705	57.61%	2.974%
122	11.119	11.098	11.150	VV	2869	40073	0.43%	0.022%
123	11.175	11.150	11.222	VV	2515	45257	0.49%	0.025%
124	11.246	11.222	11.274	VV	739	13901	0.15%	0.008%
125	11.319	11.274	11.379	VV	437971	5008876	54.18%	2.797%
126	11.404	11.379	11.444	VV	595	13342	0.14%	0.007%
127	11.478	11.444	11.496	VV	422	7223	0.08%	0.004%
128	11.510	11.496	11.589	VV	246	7819	0.08%	0.004%
129	11.641	11.589	11.701	VV	453455	4978406	53.85%	2.780%
130	11.735	11.701	11.756	VV	744	20102	0.22%	0.011%
131	11.779	11.756	11.816	VV	948	25004	0.27%	0.014%
132	11.830	11.816	11.845	VV	542	7372	0.08%	0.004%
133	11.859	11.845	11.893	VV	514	8232	0.09%	0.005%
134	11.928	11.893	11.938	VV	229	3432	0.04%	0.002%
135	11.984	11.938	12.024	VV	395	11686	0.13%	0.007%
136	12.045	12.024	12.068	VV	466	7619	0.08%	0.004%
137	12.078	12.068	12.104	VV	508	6430	0.07%	0.004%
138	12.113	12.104	12.188	VV	202	3849	0.04%	0.002%
139	12.195	12.188	12.220	VV	202	2172	0.02%	0.001%
140	12.238	12.220	12.301	VV	4174	67181	0.73%	0.038%
141	12.344	12.301	12.406	VV	1292	44383	0.48%	0.025%

rteres

142	12.451	12.406	12.518	VV	1158	27610	0.30%	0.015%
143	12.537	12.518	12.547	VV	384	4380	0.05%	0.002%
144	12.573	12.547	12.594	VV	625	12077	0.13%	0.007%
145	12.629	12.594	12.663	VV	429757	4944058	53.48%	2.761%
146	12.700	12.663	12.818	VV	448408	5110263	55.28%	2.854%
147	12.835	12.818	12.857	VV	839	11970	0.13%	0.007%
148	12.882	12.857	12.921	VV	5258	63811	0.69%	0.036%
149	12.942	12.921	12.959	VV	357	5259	0.06%	0.003%
150	12.999	12.959	13.035	VV	432109	5000442	54.09%	2.792%
151	13.076	13.035	13.156	VV	335379	4117566	44.54%	2.299%
152	13.181	13.156	13.208	VV	534	12147	0.13%	0.007%
153	13.242	13.208	13.318	VV	407870	4838880	52.34%	2.702%
154	13.331	13.318	13.351	VV	287	4110	0.04%	0.002%
155	13.459	13.384	13.541	PV	547	18640	0.20%	0.010%
156	13.588	13.541	13.607	VV	884	18169	0.20%	0.010%
157	13.616	13.607	13.641	VV	607	8405	0.09%	0.005%
158	13.667	13.641	13.685	VV	969	16449	0.18%	0.009%
159	13.694	13.685	13.716	VV	636	7999	0.09%	0.004%
160	13.738	13.716	13.754	VV	571	9142	0.10%	0.005%
161	13.777	13.754	13.791	VV	953	13049	0.14%	0.007%
162	13.829	13.791	13.897	VV	386565	4740652	51.28%	2.647%
163	13.907	13.897	13.930	VV	490	6816	0.07%	0.004%
164	13.954	13.930	13.981	VV	1066	15612	0.17%	0.009%
165	14.009	13.981	14.124	VV	683	19222	0.21%	0.011%
166	14.135	14.124	14.144	VV	116	964	0.01%	0.001%
167	14.221	14.144	14.241	VV	665	16330	0.18%	0.009%
168	14.265	14.241	14.312	VV	988	20665	0.22%	0.012%
169	14.330	14.312	14.364	VV	455	9506	0.10%	0.005%
170	14.389	14.364	14.441	VV	948	20502	0.22%	0.011%
171	14.456	14.441	14.474	VV	338	4992	0.05%	0.003%
172	14.504	14.474	14.542	VV	524	13918	0.15%	0.008%
173	14.565	14.542	14.602	VV	940	15975	0.17%	0.009%
174	14.623	14.602	14.662	VV	506	12353	0.13%	0.007%
175	14.678	14.662	14.718	VV	209	5098	0.06%	0.003%
176	14.784	14.718	14.807	VV	481	14749	0.16%	0.008%
177	14.832	14.807	14.841	PV	606	7168	0.08%	0.004%
178	14.882	14.841	14.901	VV	369472	4604804	49.81%	2.571%
179	14.928	14.901	15.020	VV	675485	9244384	100.00%	5.162%
180	15.039	15.020	15.090	VV	1090	28508	0.31%	0.016%
181	15.107	15.090	15.168	VV	548	15782	0.17%	0.009%
182	15.228	15.168	15.271	VV	722	18949	0.20%	0.011%
183	15.312	15.271	15.394	VV	11284	210296	2.27%	0.117%
184	15.408	15.394	15.421	VV	351	4834	0.05%	0.003%
185	15.451	15.421	15.494	VV	2003	33761	0.37%	0.019%
186	15.528	15.494	15.538	VV	640	10718	0.12%	0.006%
187	15.553	15.538	15.578	VV	897	13763	0.15%	0.008%
188	15.590	15.578	15.619	VV	460	6646	0.07%	0.004%
189	15.640	15.619	15.668	VV	435	6217	0.07%	0.003%
190	15.715	15.668	15.774	VV	520	17059	0.18%	0.010%
191	15.785	15.774	15.807	VV	193	3513	0.04%	0.002%
192	15.829	15.807	15.860	VV	481	7842	0.08%	0.004%
193	15.957	15.860	16.002	VV	332738	4318743	46.72%	2.412%
194	16.017	16.002	16.071	VV	179	4090	0.04%	0.002%

rteres

195	16.077	16.071	16.121	VV	117	1730	0.02%	0.001%
196	16.156	16.121	16.207	PV	820	13643	0.15%	0.008%
197	16.264	16.207	16.278	PV	237	6763	0.07%	0.004%
198	16.292	16.278	16.301	VV	193	2245	0.02%	0.001%
199	16.332	16.301	16.376	VV	1035	23620	0.26%	0.013%
200	16.442	16.376	16.458	VV	313123	4491408	48.59%	2.508%
201	16.477	16.458	16.542	VV	383948	4498027	48.66%	2.512%
202	16.570	16.542	16.663	VV	10469	165182	1.79%	0.092%
203	16.692	16.663	16.716	VV	2178	32195	0.35%	0.018%
204	16.760	16.716	16.782	VV	2548	50716	0.55%	0.028%
205	16.826	16.782	16.866	VV	342057	4330526	46.84%	2.418%
206	16.906	16.866	17.010	VV	329764	4230451	45.76%	2.362%
207	17.061	17.010	17.112	VV	386	15034	0.16%	0.008%
208	17.123	17.112	17.148	VV	180	2775	0.03%	0.002%
209	17.193	17.148	17.257	PV	519	19557	0.21%	0.011%
210	17.278	17.257	17.300	VV	484	9171	0.10%	0.005%
211	17.354	17.300	17.391	VV	7565	114564	1.24%	0.064%
212	17.440	17.391	17.457	PV	440	7592	0.08%	0.004%
213	17.481	17.457	17.498	VV	373	5611	0.06%	0.003%
214	17.520	17.498	17.568	VV	323	6107	0.07%	0.003%
215	17.584	17.568	17.619	PV	147	2167	0.02%	0.001%
216	17.685	17.619	17.718	PV	791	15094	0.16%	0.008%
217	17.796	17.718	17.858	PV	279556	3982573	43.08%	2.224%
218	17.883	17.858	17.942	VV	811	14699	0.16%	0.008%
219	17.989	17.942	18.018	PV	366	8209	0.09%	0.005%
220	18.062	18.018	18.081	VV	272	5094	0.06%	0.003%
221	18.200	18.081	18.216	PV	298272	4307847	46.60%	2.406%
222	18.236	18.216	18.344	VV	311483	4233618	45.80%	2.364%
223	18.356	18.344	18.409	VV	1232	31030	0.34%	0.017%
224	18.458	18.409	18.554	VV	295772	4238701	45.85%	2.367%
225	18.627	18.554	18.693	VV	283210	3887166	42.05%	2.171%
226	18.726	18.693	18.758	VV	729	16409	0.18%	0.009%
227	18.785	18.758	18.815	VV	278	5991	0.06%	0.003%
228	18.885	18.815	18.907	PV	667	10872	0.12%	0.006%
229	18.937	18.907	18.958	VV	517	10786	0.12%	0.006%
230	18.984	18.958	18.995	VV	2511	38172	0.41%	0.021%
231	19.022	18.995	19.078	VV	11371	188298	2.04%	0.105%
232	19.119	19.078	19.175	VV	609	24049	0.26%	0.013%
233	19.222	19.175	19.241	VV	757	18098	0.20%	0.010%
234	19.270	19.241	19.297	VV	1150	23047	0.25%	0.013%
235	19.319	19.297	19.348	VV	988	18767	0.20%	0.010%
236	19.412	19.348	19.496	VV	260431	3838758	41.53%	2.144%
237	19.516	19.496	19.546	VV	1496	38896	0.42%	0.022%
238	19.619	19.546	19.628	VV	1633	65982	0.71%	0.037%
239	19.648	19.628	19.666	VV	1922	39607	0.43%	0.022%
240	19.694	19.666	19.729	VV	2580	73779	0.80%	0.041%
241	19.783	19.729	19.814	VV	9286	206500	2.23%	0.115%
242	19.843	19.814	19.865	VV	2262	63904	0.69%	0.036%
243	20.012	19.865	20.041	VV	3995	300638	3.25%	0.168%
244	20.060	20.041	20.082	VV	3863	89582	0.97%	0.050%
245	20.152	20.082	20.241	VV	240219	3817071	41.29%	2.132%
246	20.292	20.241	20.301	VV	6274	178082	1.93%	0.099%

rteres

247	20.312	20.301	20.351	VV	6296	161773	1.75%	0.090%
248	20.385	20.351	20.395	VV	5173	132715	1.44%	0.074%
249	20.420	20.395	20.448	VV	5375	160499	1.74%	0.090%
250	20.508	20.448	20.568	VV	9025	423527	4.58%	0.237%
251	20.592	20.568	20.611	VV	4925	126340	1.37%	0.071%
252	20.685	20.611	20.736	VV	5004	362627	3.92%	0.203%
253	20.759	20.736	20.787	VV	4745	139867	1.51%	0.078%
254	20.808	20.787	20.850	VV	4552	168597	1.82%	0.094%
255	20.909	20.850	20.994	VV	181093	3723848	40.28%	2.079%
256	21.012	20.994	21.044	VV	4117	122095	1.32%	0.068%
257	21.110	21.044	21.132	VV	3999	208580	2.26%	0.116%
258	21.157	21.132	21.191	VV	3855	132316	1.43%	0.074%
259	21.246	21.191	21.310	VV	3723	255009	2.76%	0.142%
260	21.353	21.310	21.419	VV	4858	248071	2.68%	0.139%
261	21.429	21.419	21.434	VV	3159	27925	0.30%	0.016%
262	21.443	21.434	21.454	VV	3131	36778	0.40%	0.021%
263	21.469	21.454	21.481	VV	3137	50100	0.54%	0.028%
264	21.507	21.481	21.518	VV	2973	65382	0.71%	0.037%
265	21.557	21.518	21.604	VV	2864	142643	1.54%	0.080%
266	21.615	21.604	21.637	VV	2629	51420	0.56%	0.029%
267	21.673	21.637	21.697	VV	2622	89116	0.96%	0.050%
268	21.720	21.697	21.764	VV	2374	93486	1.01%	0.052%
269	21.861	21.764	21.979	VV	139718	3521330	38.09%	1.966%
270	21.990	21.979	22.024	VV	1487	37197	0.40%	0.021%
271	22.071	22.024	22.128	VV	1714	86201	0.93%	0.048%
272	22.138	22.128	22.188	VV	992	30616	0.33%	0.017%
273	22.204	22.188	22.267	VV	737	26340	0.28%	0.015%
274	22.278	22.267	22.291	VV	490	5664	0.06%	0.003%
275	22.296	22.291	22.348	VV	397	7027	0.08%	0.004%
276	22.360	22.348	22.374	VV	159	1287	0.01%	0.001%

Sum of corrected areas: 179074367

Aliphatic EPH 100725.M Wed Oct 29 08:14:17 2025

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	TP-13MSD			SDG No.:	Q3466
Lab Sample ID:	Q3469-01MSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	91.1
Sample Wt/Vol:	30.04 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date :	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	28.1		1	1.29	2.19	mg/kg	FC070066.D	10/28/25 17:20	PB170266
Aliphatic C9-C28	Aliphatic C9-C28	62.6		1	1.00	4.39	mg/kg	FC070066.D	10/28/25 17:20	PB170266
Total AliphaticEPH	Total AliphaticEPH	90.7			2.29	6.58	mg/kg			
Total EPH	Total EPH	90.7			2.29	6.58	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

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

Report of Analysis

Client:	HDR, Inc.			Date Collected:	
Project:	PVWC Linear Construction			Date Received:	
Client Sample ID:	TP-13MSD			SDG No.:	Q3466
Lab Sample ID:	Q3469-01MSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	91.1
Sample Wt/Vol:	30.04 g	Final Vol:	2000 uL	Test:	EPH_NF
Prep Method :		Prep Date	10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	62.6		1	1.00	4.39	mg/kg	10/28/25	PB170266
Aliphatic C28-C40	Aliphatic C28-C40	28.1		1	1.29	2.19	mg/kg	10/28/25	PB170266
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	31.0			40 - 140	62%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	28.9			40 - 140	58%	SPK: 50		

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3469-01MSD	Acq On:	28 Oct 2025 17:20
Client Sample ID:	TP-13MSD	Operator:	YP/AJ
Data file:	FC070066.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	3.277	6.572	21023509	145.205	300	ug/ml
Aliphatic C12-C16	6.573	9.973	32328594	197.388	200	ug/ml
Aliphatic C16-C21	9.974	13.340	36901594	227.864	300	ug/ml
Aliphatic C21-C28	13.341	17.005	42064279	285.875	400	ug/ml
Aliphatic C28-C40	17.006	21.959	41376676	384.542	600	ug/ml
Aliphatic EPH	3.277	21.959	173694652	1240		ug/ml
ortho-Terphenyl (SURR)	11.641	11.641	5084075	28.95		ug/ml
1-chlorooctadecane (SURR)	13.075	13.075	4213167	31.04		ug/ml
Aliphatic C9-C28	3.277	17.005	132317976	856.332	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070066.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 17:20
Operator : YP/AJ
Sample : Q3469-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
TP-13MSD

Integration File: autoint1.e
Quant Time: Oct 29 07:48:53 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)	11.641	5084075	28.952 ug/ml
Spiked Amount	50.000		Recovery =	57.90%
12) S	1-chlorooctadecane (S...	13.075	4213167	31.038 ug/ml
Spiked Amount	50.000		Recovery =	62.08%
	Target Compounds			
1) T	n-Nonane (C9)	3.378	3242709	23.615 ug/ml
2) T	n-Decane (C10)	4.451	3732234	25.961 ug/ml
3) T	A~Naphthalene (C11.7)	6.045	4824004	29.849 ug/ml
4) T	n-Dodecane (C12)	6.473	4287539	27.973 ug/ml
5) T	A~2-methylnaphthalene...	7.104	4620728	28.961 ug/ml
6) T	n-Tetradecane (C14)	8.273	4788295	30.107 ug/ml
7) T	n-Hexadecane (C16)	9.874	5107307	30.307 ug/ml
8) T	n-Octadecane (C18)	11.319	5125206	30.125 ug/ml
10) T	n-Eicosane (C20)	12.630	5069086	31.596 ug/ml
11) T	n-Heneicosane (C21)	13.242	4936650	31.793 ug/ml
13) T	n-Docosane (C22)	13.829	4831521	31.395 ug/ml
14) T	n-Tetracosane (C24)	14.928	9358370	61.718 ug/ml
15) T	n-Hexacosane (C26)	15.957	4404523	30.431 ug/ml
16) T	n-Octacosane (C28)	16.906	4218447	30.501 ug/ml
17) T	n-Tricontane (C30)	17.796	4071402	29.820 ug/ml
18) T	n-Dotriacontane (C32)	18.628	3919298	30.398 ug/ml
19) T	n-Tetratriacontane (C34)	19.413	3880168	34.007 ug/ml
20) T	n-Hexatriacontane (C36)	20.153	3468003	35.859 ug/ml
21) T	n-Octatriacontane (C38)	20.910	3413736	39.167 ug/ml
22) T	n-Tetracontane (C40)	21.861	3323968	40.456 ug/ml

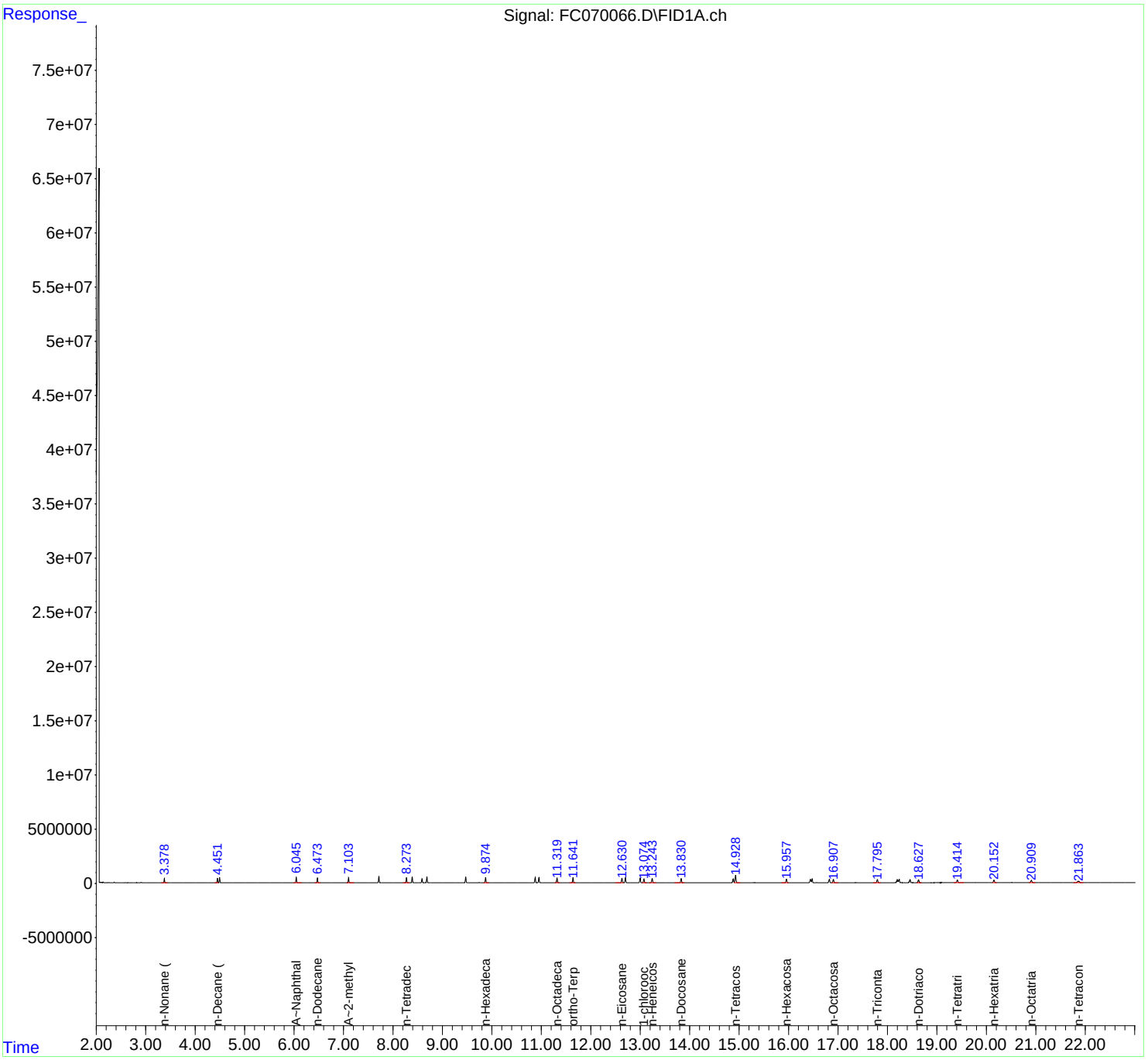
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070066.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 17:20
Operator : YP/AJ
Sample : Q3469-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
TP-13MSD

Integration File: autoint1.e
Quant Time: Oct 29 07:48:53 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102825AL\
Data File : FC070066.D
Signal(s) : FID1A.ch
Acq On : 28 Oct 2025 17:20
Sample : Q3469-01MSD
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	3.265	3.204	3.321	BV	751	15777	0.17%	0.009%
2	3.333	3.321	3.347	VV	134	908	0.01%	0.000%
3	3.378	3.347	3.473	PV	387635	3261944	34.72%	1.780%
4	3.504	3.473	3.519	VV	378	8403	0.09%	0.005%
5	3.530	3.519	3.545	VV	459	4764	0.05%	0.003%
6	3.558	3.545	3.569	VV	226	2790	0.03%	0.002%
7	3.581	3.569	3.608	VV	269	3647	0.04%	0.002%
8	3.620	3.608	3.633	VV	227	2443	0.03%	0.001%
9	3.657	3.633	3.667	VV	261	4620	0.05%	0.003%
10	3.688	3.667	3.720	VV	693	13319	0.14%	0.007%
11	3.734	3.720	3.748	VV	775	8508	0.09%	0.005%
12	3.768	3.748	3.837	VV	7777	72853	0.78%	0.040%
13	3.865	3.837	3.911	VV	6033	59381	0.63%	0.032%
14	3.926	3.911	3.935	VV	337	3612	0.04%	0.002%
15	3.951	3.935	4.004	VV	500	11929	0.13%	0.007%
16	4.052	4.004	4.071	VV	546	11420	0.12%	0.006%
17	4.076	4.071	4.121	VV	418	6740	0.07%	0.004%
18	4.144	4.121	4.162	VV	377	5428	0.06%	0.003%
19	4.229	4.162	4.248	VV	404	13743	0.15%	0.008%
20	4.258	4.248	4.268	VV	291	3103	0.03%	0.002%
21	4.290	4.268	4.333	VV	285	6879	0.07%	0.004%
22	4.368	4.333	4.388	PV	219	5651	0.06%	0.003%
23	4.393	4.388	4.420	VV	206	3282	0.03%	0.002%
24	4.451	4.420	4.473	VV	416550	3739138	39.80%	2.041%
25	4.495	4.473	4.540	VV	479417	4265137	45.40%	2.328%
26	4.556	4.540	4.580	VV	4816	55316	0.59%	0.030%
27	4.603	4.580	4.658	VV	7336	84732	0.90%	0.046%
28	4.668	4.658	4.724	VV	429	12052	0.13%	0.007%
29	4.734	4.724	4.775	VV	294	6631	0.07%	0.004%
30	4.784	4.775	4.860	VV	257	7946	0.08%	0.004%
31	4.870	4.860	4.894	VV	121	2233	0.02%	0.001%
32	4.906	4.894	4.964	VV	156	4074	0.04%	0.002%
33	4.971	4.964	5.034	VV	123	3896	0.04%	0.002%
34	5.042	5.034	5.059	VV	163	2009	0.02%	0.001%
35	5.107	5.059	5.119	PV	191	4310	0.05%	0.002%
36	5.129	5.119	5.174	VV	177	3245	0.03%	0.002%

rteres

37	5.182	5.174	5.188	VV	124	741	0.01%	0.000%
38	5.196	5.188	5.243	VV	138	2486	0.03%	0.001%
39	5.259	5.243	5.268	VV	112	1124	0.01%	0.001%
40	5.278	5.268	5.288	VV	100	969	0.01%	0.001%
41	5.312	5.288	5.361	VV	327	6660	0.07%	0.004%
42	5.391	5.361	5.403	VV	109	2027	0.02%	0.001%
43	5.488	5.403	5.511	VV	1433	17259	0.18%	0.009%
44	5.527	5.511	5.564	VV	549	10112	0.11%	0.006%
45	5.603	5.564	5.634	VV	227	6765	0.07%	0.004%
46	5.647	5.634	5.706	VV	172	3992	0.04%	0.002%
47	5.741	5.706	5.774	VV	159	4057	0.04%	0.002%
48	5.788	5.774	5.813	VV	252	3002	0.03%	0.002%
49	5.835	5.813	5.891	VV	258	6125	0.07%	0.003%
50	5.899	5.891	5.911	VV	171	1246	0.01%	0.001%
51	5.923	5.911	5.971	VV	185	3772	0.04%	0.002%
52	5.991	5.971	6.014	VV	168	2587	0.03%	0.001%
53	6.045	6.014	6.171	VV	515090	4863739	51.77%	2.654%
54	6.189	6.171	6.254	VV	719	21974	0.23%	0.012%
55	6.264	6.254	6.305	VV	328	7747	0.08%	0.004%
56	6.321	6.305	6.388	VV	500	14945	0.16%	0.008%
57	6.411	6.388	6.438	VV	323	7526	0.08%	0.004%
58	6.473	6.438	6.533	VV	451235	4308019	45.85%	2.351%
59	6.549	6.533	6.604	VV	897	20549	0.22%	0.011%
60	6.621	6.604	6.664	VV	426	10513	0.11%	0.006%
61	6.677	6.664	6.703	VV	535	7935	0.08%	0.004%
62	6.723	6.703	6.744	VV	549	8536	0.09%	0.005%
63	6.762	6.744	6.785	VV	322	5889	0.06%	0.003%
64	6.793	6.785	6.849	VV	234	6400	0.07%	0.003%
65	6.893	6.849	6.934	VV	311	11098	0.12%	0.006%
66	6.957	6.934	6.986	VV	3750	55385	0.59%	0.030%
67	7.009	6.986	7.063	VV	12599	140487	1.50%	0.077%
68	7.104	7.063	7.219	VV	469323	4663174	49.63%	2.545%
69	7.239	7.219	7.273	VV	1673	31760	0.34%	0.017%
70	7.294	7.273	7.347	VV	2539	56173	0.60%	0.031%
71	7.369	7.347	7.382	VV	1215	16605	0.18%	0.009%
72	7.398	7.382	7.426	VV	1402	19147	0.20%	0.010%
73	7.462	7.426	7.480	VV	705	14855	0.16%	0.008%
74	7.490	7.480	7.513	VV	518	7030	0.07%	0.004%
75	7.525	7.513	7.552	VV	272	4998	0.05%	0.003%
76	7.576	7.552	7.601	VV	776	12030	0.13%	0.007%
77	7.614	7.601	7.664	VV	357	10545	0.11%	0.006%
78	7.817	7.791	7.844	VV	1016	29478	0.31%	0.016%
79	7.851	7.844	7.924	VV	922	25766	0.27%	0.014%
80	7.965	7.946	7.992	VV	569	11521	0.12%	0.006%
81	8.021	7.992	8.102	VV	623	21476	0.23%	0.012%
82	8.131	8.102	8.148	VV	278	6148	0.07%	0.003%
83	8.172	8.148	8.201	VV	393	9541	0.10%	0.005%
84	8.273	8.201	8.336	VV	474827	4811149	51.21%	2.626%
85	8.348	8.336	8.354	VV	473	4363	0.05%	0.002%
86	8.389	8.354	8.553	VV	531467	5467224	58.19%	2.984%
87	8.687	8.653	8.863	VV	548368	5513313	58.68%	3.009%
88	8.904	8.863	8.936	VV	404	13719	0.15%	0.007%
89	8.963	8.936	8.984	VV	750	14505	0.15%	0.008%

rteres

90	8.992	8.984	9.067	VV	568	16088	0.17%	0.009%
91	9.093	9.067	9.126	VV	1108	17898	0.19%	0.010%
92	9.150	9.126	9.185	VV	382	9827	0.10%	0.005%
93	9.195	9.185	9.261	VV	341	8857	0.09%	0.005%
94	9.280	9.261	9.317	VV	257	5301	0.06%	0.003%
95	9.338	9.317	9.358	VV	275	3683	0.04%	0.002%
96	9.375	9.358	9.418	PV	132	3001	0.03%	0.002%
97	9.472	9.418	9.584	VV	527956	5623264	59.85%	3.069%
98	9.588	9.584	9.611	VV	491	7105	0.08%	0.004%
99	9.620	9.611	9.640	VV	449	7272	0.08%	0.004%
100	9.683	9.640	9.721	VV	7412	106204	1.13%	0.058%
101	9.747	9.721	9.838	VV	29502	378711	4.03%	0.207%
102	9.874	9.838	9.909	VV	472259	5114102	54.43%	2.791%
103	9.918	9.909	9.958	VV	855	16518	0.18%	0.009%
104	9.974	9.958	10.078	VV	521	18479	0.20%	0.010%
105	10.098	10.078	10.132	VV	1234	15013	0.16%	0.008%
106	10.159	10.132	10.191	VV	440	6970	0.07%	0.004%
107	10.219	10.191	10.245	VV	3544	41180	0.44%	0.022%
108	10.263	10.245	10.277	VV	351	5002	0.05%	0.003%
109	10.286	10.277	10.299	VV	217	2360	0.03%	0.001%
110	10.318	10.299	10.342	VV	348	5465	0.06%	0.003%
111	10.358	10.342	10.380	VV	194	3062	0.03%	0.002%
112	10.395	10.380	10.454	PV	229	5183	0.06%	0.003%
113	10.469	10.454	10.481	VV	432	3043	0.03%	0.002%
114	10.487	10.481	10.510	VV	233	3881	0.04%	0.002%
115	10.532	10.510	10.557	VV	352	7046	0.07%	0.004%
116	10.569	10.557	10.593	VV	299	5028	0.05%	0.003%
117	10.611	10.593	10.645	VV	444	7784	0.08%	0.004%
118	10.679	10.645	10.761	VV	3946	59433	0.63%	0.032%
119	10.770	10.761	10.782	VV	138	1146	0.01%	0.001%
120	10.792	10.782	10.799	VV	93	714	0.01%	0.000%
121	10.877	10.799	10.918	VV	490998	5387166	57.34%	2.940%
122	10.953	10.918	11.092	VV	490767	5403180	57.51%	2.949%
123	11.119	11.092	11.154	VV	3024	42237	0.45%	0.023%
124	11.176	11.154	11.228	VV	2554	45868	0.49%	0.025%
125	11.246	11.228	11.271	VV	728	12773	0.14%	0.007%
126	11.319	11.271	11.381	VV	448512	5142620	54.74%	2.807%
127	11.402	11.381	11.458	VV	640	16151	0.17%	0.009%
128	11.480	11.458	11.495	VV	474	6290	0.07%	0.003%
129	11.512	11.495	11.544	VV	298	5325	0.06%	0.003%
130	11.574	11.544	11.585	VV	180	2872	0.03%	0.002%
131	11.641	11.585	11.698	VV	468702	5109563	54.38%	2.789%
132	11.712	11.698	11.725	VV	809	11131	0.12%	0.006%
133	11.736	11.725	11.756	VV	813	11438	0.12%	0.006%
134	11.797	11.756	11.818	VV	1141	30216	0.32%	0.016%
135	11.829	11.818	11.844	VV	624	7839	0.08%	0.004%
136	11.861	11.844	11.896	VV	610	10130	0.11%	0.006%
137	11.919	11.896	11.942	VV	210	4131	0.04%	0.002%
138	11.981	11.942	12.024	VV	506	13900	0.15%	0.008%
139	12.048	12.024	12.064	VV	494	8616	0.09%	0.005%
140	12.079	12.064	12.129	VV	679	9628	0.10%	0.005%
141	12.160	12.129	12.188	PV	228	3920	0.04%	0.002%

rteres

142	12.203	12.188	12.214	VV	176	2082	0.02%	0.001%
143	12.238	12.214	12.300	VV	4092	67361	0.72%	0.037%
144	12.344	12.300	12.408	VV	1330	46195	0.49%	0.025%
145	12.452	12.408	12.505	VV	1223	27982	0.30%	0.015%
146	12.533	12.505	12.546	VV	390	6209	0.07%	0.003%
147	12.574	12.546	12.591	VV	674	13826	0.15%	0.008%
148	12.630	12.591	12.663	VV	416001	5067330	53.93%	2.766%
149	12.700	12.663	12.814	VV	470496	5180055	55.13%	2.827%
150	12.835	12.814	12.858	VV	851	13331	0.14%	0.007%
151	12.882	12.858	12.920	VV	5320	65503	0.70%	0.036%
152	12.940	12.920	12.959	VV	386	6640	0.07%	0.004%
153	13.000	12.959	13.038	VV	447938	5066253	53.92%	2.765%
154	13.075	13.038	13.148	VV	351833	4233763	45.06%	2.311%
155	13.181	13.148	13.204	VV	555	12702	0.14%	0.007%
156	13.242	13.204	13.321	VV	390053	4954140	52.73%	2.704%
157	13.336	13.321	13.375	VV	255	5765	0.06%	0.003%
158	13.419	13.375	13.431	VV	209	5272	0.06%	0.003%
159	13.455	13.431	13.501	VV	539	11588	0.12%	0.006%
160	13.588	13.501	13.606	VV	961	19110	0.20%	0.010%
161	13.618	13.606	13.637	VV	616	7940	0.08%	0.004%
162	13.668	13.637	13.686	VV	1020	17574	0.19%	0.010%
163	13.695	13.686	13.721	VV	580	8636	0.09%	0.005%
164	13.740	13.721	13.758	VV	569	8712	0.09%	0.005%
165	13.777	13.758	13.791	VV	821	11858	0.13%	0.006%
166	13.829	13.791	13.895	VV	390753	4848383	51.60%	2.646%
167	13.907	13.895	13.932	VV	555	8625	0.09%	0.005%
168	13.955	13.932	13.987	VV	1070	16148	0.17%	0.009%
169	14.009	13.987	14.121	VV	658	18552	0.20%	0.010%
170	14.125	14.121	14.141	VV	112	919	0.01%	0.001%
171	14.151	14.141	14.159	VV	107	795	0.01%	0.000%
172	14.223	14.159	14.244	PV	785	15118	0.16%	0.008%
173	14.264	14.244	14.314	VV	971	19356	0.21%	0.011%
174	14.331	14.314	14.361	VV	524	9153	0.10%	0.005%
175	14.391	14.361	14.440	VV	1026	20888	0.22%	0.011%
176	14.455	14.440	14.478	VV	337	5697	0.06%	0.003%
177	14.501	14.478	14.541	VV	555	13565	0.14%	0.007%
178	14.565	14.541	14.601	VV	855	15888	0.17%	0.009%
179	14.624	14.601	14.661	VV	475	12350	0.13%	0.007%
180	14.672	14.661	14.707	VV	199	4741	0.05%	0.003%
181	14.780	14.707	14.806	VV	419	14588	0.16%	0.008%
182	14.833	14.806	14.841	VV	581	7189	0.08%	0.004%
183	14.881	14.841	14.901	VV	360860	4658970	49.59%	2.543%
184	14.928	14.901	15.021	VV	685650	9395479	100.00%	5.128%
185	15.040	15.021	15.088	VV	1021	27050	0.29%	0.015%
186	15.107	15.088	15.165	VV	597	15921	0.17%	0.009%
187	15.230	15.165	15.271	VV	704	18908	0.20%	0.010%
188	15.312	15.271	15.391	VV	11810	215905	2.30%	0.118%
189	15.408	15.391	15.428	VV	331	5835	0.06%	0.003%
190	15.451	15.428	15.491	VV	1874	32585	0.35%	0.018%
191	15.512	15.491	15.536	VV	543	9479	0.10%	0.005%
192	15.553	15.536	15.578	VV	971	14143	0.15%	0.008%
193	15.587	15.578	15.613	VV	478	6729	0.07%	0.004%
194	15.641	15.613	15.667	VV	499	7397	0.08%	0.004%

rteres

195	15.714	15.667	15.764	VV	547	16235	0.17%	0.009%
196	15.782	15.764	15.801	VV	215	3832	0.04%	0.002%
197	15.830	15.801	15.861	VV	519	9220	0.10%	0.005%
198	15.957	15.861	16.034	VV	332940	4414985	46.99%	2.410%
199	16.046	16.034	16.064	VV	190	2593	0.03%	0.001%
200	16.079	16.064	16.106	VV	135	2219	0.02%	0.001%
201	16.156	16.106	16.211	PV	773	14876	0.16%	0.008%
202	16.229	16.211	16.238	PV	222	2334	0.02%	0.001%
203	16.262	16.238	16.280	VV	308	5654	0.06%	0.003%
204	16.332	16.280	16.369	VV	1144	27049	0.29%	0.015%
205	16.442	16.369	16.459	VV	321043	4528270	48.20%	2.471%
206	16.477	16.459	16.544	VV	383618	4555800	48.49%	2.486%
207	16.570	16.544	16.662	VV	10466	169598	1.81%	0.093%
208	16.692	16.662	16.718	VV	2120	33412	0.36%	0.018%
209	16.759	16.718	16.783	VV	2577	49537	0.53%	0.027%
210	16.825	16.783	16.867	VV	335061	4375296	46.57%	2.388%
211	16.906	16.867	17.015	VV	310639	4322323	46.00%	2.359%
212	17.072	17.015	17.105	VV	372	13904	0.15%	0.008%
213	17.114	17.105	17.150	VV	138	3224	0.03%	0.002%
214	17.189	17.150	17.224	VV	540	14034	0.15%	0.008%
215	17.243	17.224	17.253	VV	308	4661	0.05%	0.003%
216	17.279	17.253	17.299	VV	561	11165	0.12%	0.006%
217	17.354	17.299	17.391	VV	8609	130677	1.39%	0.071%
218	17.439	17.391	17.464	VV	373	9349	0.10%	0.005%
219	17.482	17.464	17.498	VV	338	4849	0.05%	0.003%
220	17.522	17.498	17.563	VV	350	5556	0.06%	0.003%
221	17.578	17.563	17.591	PV	170	2001	0.02%	0.001%
222	17.685	17.591	17.710	VV	913	18375	0.20%	0.010%
223	17.796	17.710	17.861	VV	292381	4080233	43.43%	2.227%
224	17.884	17.861	17.934	VV	873	16863	0.18%	0.009%
225	17.995	17.934	18.041	VV	407	13972	0.15%	0.008%
226	18.063	18.041	18.081	VV	315	4769	0.05%	0.003%
227	18.101	18.081	18.113	PV	494	7263	0.08%	0.004%
228	18.200	18.113	18.216	VV	298994	4375345	46.57%	2.388%
229	18.237	18.216	18.379	VV	319380	4387886	46.70%	2.395%
230	18.387	18.379	18.411	VV	764	12731	0.14%	0.007%
231	18.457	18.411	18.553	VV	299417	4274364	45.49%	2.333%
232	18.628	18.553	18.695	VV	275464	3989656	42.46%	2.177%
233	18.728	18.695	18.755	VV	870	18333	0.20%	0.010%
234	18.785	18.755	18.817	VV	338	7949	0.08%	0.004%
235	18.883	18.817	18.907	PV	817	15246	0.16%	0.008%
236	18.938	18.907	18.954	VV	597	12181	0.13%	0.007%
237	18.987	18.954	18.997	VV	2635	41970	0.45%	0.023%
238	19.022	18.997	19.077	VV	13228	220181	2.34%	0.120%
239	19.106	19.077	19.154	VV	637	21554	0.23%	0.012%
240	19.225	19.154	19.243	VV	841	26785	0.29%	0.015%
241	19.272	19.243	19.298	VV	1328	27561	0.29%	0.015%
242	19.318	19.298	19.352	VV	1028	22796	0.24%	0.012%
243	19.413	19.352	19.499	VV	254128	3929797	41.83%	2.145%
244	19.519	19.499	19.546	VV	1651	38964	0.41%	0.021%
245	19.652	19.546	19.665	VV	2058	115822	1.23%	0.063%
246	19.696	19.665	19.725	VV	2700	78856	0.84%	0.043%

rteres

247	19.785	19.725	19.818	VV	11136	243378	2.59%	0.133%
248	19.844	19.818	19.861	VV	2346	56797	0.60%	0.031%
249	20.013	19.861	20.041	VV	4263	318793	3.39%	0.174%
250	20.061	20.041	20.088	VV	4025	103698	1.10%	0.057%
251	20.153	20.088	20.238	VV	241397	3862980	41.12%	2.108%
252	20.314	20.238	20.334	VV	7363	331756	3.53%	0.181%
253	20.378	20.334	20.456	VV	8135	472792	5.03%	0.258%
254	20.466	20.456	20.471	VV	4992	44684	0.48%	0.024%
255	20.510	20.471	20.567	VV	9748	363745	3.87%	0.199%
256	20.588	20.567	20.640	VV	4942	210235	2.24%	0.115%
257	20.691	20.640	20.726	VV	5084	250120	2.66%	0.137%
258	20.756	20.726	20.788	VV	4783	171294	1.82%	0.093%
259	20.811	20.788	20.851	VV	4629	168266	1.79%	0.092%
260	20.910	20.851	21.000	VV	198879	3778083	40.21%	2.062%
261	21.010	21.000	21.034	VV	4105	84118	0.90%	0.046%
262	21.079	21.034	21.103	VV	4042	162647	1.73%	0.089%
263	21.114	21.103	21.157	VV	3923	121477	1.29%	0.066%
264	21.186	21.157	21.205	VV	3692	104746	1.11%	0.057%
265	21.235	21.205	21.300	VV	3750	203275	2.16%	0.111%
266	21.353	21.300	21.423	VV	5069	273410	2.91%	0.149%
267	21.434	21.423	21.447	VV	3099	43773	0.47%	0.024%
268	21.473	21.447	21.524	VV	3073	133504	1.42%	0.073%
269	21.532	21.524	21.544	VV	2770	33996	0.36%	0.019%
270	21.585	21.544	21.636	VV	2722	141771	1.51%	0.077%
271	21.664	21.636	21.721	VV	2484	118891	1.27%	0.065%
272	21.861	21.721	22.001	VV	129902	3619575	38.52%	1.975%
273	22.076	22.001	22.242	VV	1783	154854	1.65%	0.085%
274	22.250	22.242	22.328	VV	524	18561	0.20%	0.010%
275	22.338	22.328	22.349	VV	202	1904	0.02%	0.001%
276	22.354	22.349	22.374	VV	124	972	0.01%	0.001%

Sum of corrected areas: 183230043

Aliphatic EPH 100725.M Wed Oct 29 08:14:48 2025

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

Manual Integration Report

Sequence:	FC100725AL	Instrument	FID_c

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:	FC102825AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC070069.D	n-Dotriacontane (C32)	yogesh	10/29/2025 8:59:43 AM	Sohil	10/29/2025 4:08:32	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC070069.D	n-Tetratriacontane (C34)	yogesh	10/29/2025 8:59:43 AM	Sohil	10/29/2025 4:08:32	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FE101725AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FE102825AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE056532.D	n-Dotriacontane (C32)	yogesh	10/29/2025 8:33:32 AM	Sohil	10/29/2025 4:07:42	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056532.D	n-Octacosane (C28)	yogesh	10/29/2025 8:33:32 AM	Sohil	10/29/2025 4:07:42	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056532.D	n-Octatriacontane (C38)	yogesh	10/29/2025 8:33:32 AM	Sohil	10/29/2025 4:07:42	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056532.D	n-Tetracontane (C40)	yogesh	10/29/2025 8:33:32 AM	Sohil	10/29/2025 4:07:42	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056535.D	n-Dotriacontane (C32)	yogesh	10/29/2025 8:33:34 AM	Sohil	10/29/2025 4:07:44	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056535.D	n-Octacosane (C28)	yogesh	10/29/2025 8:33:34 AM	Sohil	10/29/2025 4:07:44	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056535.D	n-Octatriacontane (C38)	yogesh	10/29/2025 8:33:34 AM	Sohil	10/29/2025 4:07:44	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056535.D	n-Tetracontane (C40)	yogesh	10/29/2025 8:33:34 AM	Sohil	10/29/2025 4:07:44	Peak Integrated by Software
Q3452-02	FE056537.D	ortho-Terphenyl (SURR)	yogesh	10/29/2025 8:33:35 AM	Sohil	10/29/2025 4:07:45	Peak Integrated by Software
Q3465-01	FE056538.D	ortho-Terphenyl (SURR)	yogesh	10/29/2025 8:33:37 AM	Sohil	10/29/2025 4:07:47	Peak Integrated by Software
Q3465-02	FE056539.D	ortho-Terphenyl (SURR)	yogesh	10/29/2025 8:33:38 AM	Sohil	10/29/2025 4:07:49	Peak Integrated by Software
Q3472-12	FE056547.D	ortho-Terphenyl (SURR)	yogesh	10/29/2025 8:33:40 AM	Sohil	10/29/2025 4:07:51	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056550.D	n-Dotriacontane (C32)	yogesh	10/29/2025 8:33:42 AM	Sohil	10/29/2025 4:07:53	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FE102825AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE056550.D	n-Octacosane (C28)	yogesh	10/29/2025 8:33:42 AM	Sohil	10/29/2025 4:07:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056550.D	n-Octatriacontane (C38)	yogesh	10/29/2025 8:33:42 AM	Sohil	10/29/2025 4:07:53	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056550.D	n-Tetracontane (C40)	yogesh	10/29/2025 8:33:42 AM	Sohil	10/29/2025 4:07:53	Peak Integrated by Software

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch 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	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102825AL

Review By	yogesh	Review On	10/28/2025 11:27:07 AM		
Supervise By	Sohil	Supervise On	10/29/2025 4:08:37 PM		
SubDirectory	FC102825AL	HP Acquire Method		HP Processing Method	FC100725AL

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC070057.D	28 Oct 2025 08:33	YP/AJ	Ok
2	I.BLK	FC070058.D	28 Oct 2025 11:20	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC070059.D	28 Oct 2025 11:59	YP/AJ	Ok
4	PB170266BL	FC070060.D	28 Oct 2025 13:19	YP/AJ	Ok
5	PB170266BS	FC070061.D	28 Oct 2025 13:58	YP/AJ	Ok
6	PB170266BSD	FC070062.D	28 Oct 2025 14:38	YP/AJ	Ok
7	Q3469-01	FC070063.D	28 Oct 2025 15:18	YP/AJ	Ok
8	Q3469-01D	FC070064.D	28 Oct 2025 15:59	YP/AJ	Ok
9	Q3469-01MS	FC070065.D	28 Oct 2025 16:39	YP/AJ	Ok
10	Q3469-01MSD	FC070066.D	28 Oct 2025 17:20	YP/AJ	Ok
11	Q3469-02	FC070067.D	28 Oct 2025 18:01	YP/AJ	Ok
12	I.BLK	FC070068.D	28 Oct 2025 19:22	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC070069.D	28 Oct 2025 20:03	YP/AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE101725AL

Review By	yogesh	Review On	10/16/2025 2:50:14 PM		
Supervise By	Sohil	Supervise On	10/17/2025 1:12:44 PM		
SubDirectory	FE101725AL	HP Acquire Method		HP Processing Method	FE101725AL

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056349.D	16 Oct 2025 16:29	YP\AJ	Ok
2	I.BLK	FE056350.D	16 Oct 2025 16:59	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE056351.D	16 Oct 2025 17:30	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE056352.D	16 Oct 2025 18:00	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE056353.D	16 Oct 2025 18:30	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE056354.D	16 Oct 2025 19:00	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE056355.D	16 Oct 2025 19:31	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE056356.D	16 Oct 2025 20:01	YP\AJ	Ok
9	I.BLK	FE056357.D	16 Oct 2025 21:01	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE056358.D	16 Oct 2025 21:32	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE102825AL

Review By	yogesh	Review On	10/28/2025 10:23:15 AM		
Supervise By	Sohil	Supervise On	10/29/2025 4:08:02 PM		
SubDirectory	FE102825AL	HP Acquire Method		HP Processing Method	FE101725AL

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

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056530.D	28 Oct 2025 08:07	YP\AJ	Ok
2	I.BLK	FE056531.D	28 Oct 2025 08:37	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE056532.D	28 Oct 2025 09:08	YP\AJ	Ok,M
4	PP25012	FE056533.D	28 Oct 2025 09:45	YP\AJ	Ok
5	I.BLK	FE056534.D	28 Oct 2025 11:49	YP\AJ	Ok
6	20 PPM ALIPHATIC HC STD	FE056535.D	28 Oct 2025 12:49	YP\AJ	Ok,M
7	Q3452-01	FE056536.D	28 Oct 2025 13:24	YP\AJ	Ok
8	Q3452-02	FE056537.D	28 Oct 2025 13:54	YP\AJ	Ok,M
9	Q3465-01	FE056538.D	28 Oct 2025 14:24	YP\AJ	Ok,M
10	Q3465-02	FE056539.D	28 Oct 2025 14:54	YP\AJ	Ok,M
11	Q3466-02	FE056540.D	28 Oct 2025 15:24	YP\AJ	Ok
12	Q3466-05	FE056541.D	28 Oct 2025 15:55	YP\AJ	ReRun
13	Q3466-07	FE056542.D	28 Oct 2025 16:25	YP\AJ	Ok
14	Q3472-04DL	FE056543.D	28 Oct 2025 16:55	YP\AJ	Ok
15	Q3472-06	FE056544.D	28 Oct 2025 17:25	YP\AJ	Dilution
16	Q3472-08	FE056545.D	28 Oct 2025 17:55	YP\AJ	Dilution
17	Q3472-10	FE056546.D	28 Oct 2025 18:26	YP\AJ	Dilution
18	Q3472-12	FE056547.D	28 Oct 2025 18:56	YP\AJ	Dilution
19	Q3472-14	FE056548.D	28 Oct 2025 19:26	YP\AJ	Dilution
20	I.BLK	FE056549.D	28 Oct 2025 20:57	YP\AJ	Ok
21	20 PPM ALIPHATIC HC STD	FE056550.D	28 Oct 2025 21:27	YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch 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	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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 H	100 PPM ALIPHATIC H	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

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC102825AL

Review By	yogesh	Review On	10/28/2025 11:27:07 AM		
Supervise By	Sohil	Supervise On	10/29/2025 4:08:37 PM		
SubDirectory	FC102825AL	HP Acquire Method		HP Processing Method	FC100725AL

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

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC070057.D	28 Oct 2025 08:33		YP/AJ	Ok
2	I.BLK	I.BLK	FC070058.D	28 Oct 2025 11:20		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC070059.D	28 Oct 2025 11:59		YP/AJ	Ok
4	PB170266BL	PB170266BL	FC070060.D	28 Oct 2025 13:19		YP/AJ	Ok
5	PB170266BS	PB170266BS	FC070061.D	28 Oct 2025 13:58		YP/AJ	Ok
6	PB170266BSD	PB170266BSD	FC070062.D	28 Oct 2025 14:38		YP/AJ	Ok
7	Q3469-01	TP-13	FC070063.D	28 Oct 2025 15:18		YP/AJ	Ok
8	Q3469-01D	Q3469-01D	FC070064.D	28 Oct 2025 15:59		YP/AJ	Ok
9	Q3469-01MS	TP-13MS	FC070065.D	28 Oct 2025 16:39	FC070063.D	YP/AJ	Ok
10	Q3469-01MSD	TP-13MSD	FC070066.D	28 Oct 2025 17:20	FC070063.D!FC070065.D	YP/AJ	Ok
11	Q3469-02	TP-13-EPH	FC070067.D	28 Oct 2025 18:01		YP/AJ	Ok
12	I.BLK	I.BLK	FC070068.D	28 Oct 2025 19:22		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC070069.D	28 Oct 2025 20:03		YP/AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE101725AL

Review By	yogesh	Review On	10/16/2025 2:50:14 PM		
Supervise By	Sohil	Supervise On	10/17/2025 1:12:44 PM		
SubDirectory	FE101725AL	HP Acquire Method		HP Processing Method	FE101725AL

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

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056349.D	16 Oct 2025 16:29		YP\AJ	Ok
2	I.BLK	I.BLK	FE056350.D	16 Oct 2025 16:59		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE056351.D	16 Oct 2025 17:30		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE056352.D	16 Oct 2025 18:00		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056353.D	16 Oct 2025 18:30		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE056354.D	16 Oct 2025 19:00		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE056355.D	16 Oct 2025 19:31		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056356.D	16 Oct 2025 20:01		YP\AJ	Ok
9	I.BLK	I.BLK	FE056357.D	16 Oct 2025 21:01		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056358.D	16 Oct 2025 21:32		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE102825AL

Review By	yogesh	Review On	10/28/2025 10:23:15 AM		
Supervise By	Sohil	Supervise On	10/29/2025 4:08:02 PM		
SubDirectory	FE102825AL	HP Acquire Method		HP Processing Method	FE101725AL

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

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056530.D	28 Oct 2025 08:07		YP\AJ	Ok
2	I.BLK	I.BLK	FE056531.D	28 Oct 2025 08:37		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056532.D	28 Oct 2025 09:08		YP\AJ	Ok,M
4	PP25012	PP25012	FE056533.D	28 Oct 2025 09:45		YP\AJ	Ok
5	I.BLK	I.BLK	FE056534.D	28 Oct 2025 11:49		YP\AJ	Ok
6	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056535.D	28 Oct 2025 12:49		YP\AJ	Ok,M
7	Q3452-01	JB-1	FE056536.D	28 Oct 2025 13:24		YP\AJ	Ok
8	Q3452-02	JB-1-EPH	FE056537.D	28 Oct 2025 13:54		YP\AJ	Ok,M
9	Q3465-01	SU-03-10242025	FE056538.D	28 Oct 2025 14:24		YP\AJ	Ok,M
10	Q3465-02	SU-03-10242025-E2	FE056539.D	28 Oct 2025 14:54		YP\AJ	Ok,M
11	Q3466-02	B8-0.0-1.0-20251023	FE056540.D	28 Oct 2025 15:24		YP\AJ	Ok
12	Q3466-05	Q3466-05	FE056541.D	28 Oct 2025 15:55	Surrogate fail	YP\AJ	ReRun
13	Q3466-07	B7-1.0-2.0-20251023	FE056542.D	28 Oct 2025 16:25		YP\AJ	Ok
14	Q3472-04DL	COMP-1DL	FE056543.D	28 Oct 2025 16:55		YP\AJ	Ok
15	Q3472-06	COMP-2	FE056544.D	28 Oct 2025 17:25	Need Further 50X	YP\AJ	Dilution
16	Q3472-08	COMP-3	FE056545.D	28 Oct 2025 17:55	Need further 10X	YP\AJ	Dilution
17	Q3472-10	COMP-4	FE056546.D	28 Oct 2025 18:26	Need Further 50X	YP\AJ	Dilution
18	Q3472-12	COMP-5	FE056547.D	28 Oct 2025 18:56	Need Further 5X	YP\AJ	Dilution

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE102825AL

Review By	yogesh	Review On	10/28/2025 10:23:15 AM		
Supervise By	Sohil	Supervise On	10/29/2025 4:08:02 PM		
SubDirectory	FE102825AL	HP Acquire Method		HP Processing Method	FE101725AL

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

19	Q3472-14	155	FE056548.D	28 Oct 2025 19:26	Need Further 20X,50X	YP\AJ	Dilution
20	I.BLK	I.BLK	FE056549.D	28 Oct 2025 20:57		YP\AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056550.D	28 Oct 2025 21:27		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 10/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:27
Out Date: 10/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137661

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
Q3459-01	Y2404-0071-END-1-1	1	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-02	Y2404-0071-END-1-2	2	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-03	Y2404-0071-END-2-1	3	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-04	Y2404-0071-END-2-2	4	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-05	BC259240LOK-END-1-1	5	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-06	BC259240LOK-END-1-2	6	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-07	BC271327-END-1-1	7	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-08	BC271327-END-1-2	8	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-09	BC271327-END-2-1	9	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-10	BC271327-END-2-2	10	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-11	BC283118LOK-END-1-1	11	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-12	BC283118LOK-END-1-2	12	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-13	BC283118LOK-END-2-1	13	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-14	BC283118LOK-END-2-2	14	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-15	BC283118LOK-END-3-1	15	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-16	BC283118LOK-END-3-2	16	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-17	BC283118LOK-END-4-1	17	1.00	1.00	2.00	2.00	100.0	PILC
Q3459-18	BC283118LOK-END-4-2	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3461-01	SS-9R(4.5-5.0)	19	1.18	10.38	11.56	10.34	88.2	
Q3461-02	SS-9R(5.0-5.5)	20	1.19	10.46	11.65	10.07	84.9	
Q3461-03	SS-25(4.5-5.0)	21	1.19	10.39	11.58	9.76	82.5	
Q3461-04	SS-25(5.0-5.5)	22	1.12	11.10	12.22	10.89	88.0	
Q3465-01	SU-03-10242025	23	1.16	10.29	11.45	10.74	93.1	
Q3465-02	SU-03-10242025-E2	24	1.18	10.49	11.67	10.23	86.3	
Q3466-01	B8-0.5-1.0-20251023	25	1.17	10.34	11.51	9.6	81.5	
Q3466-02	B8-0.0-1.0-20251023	26	1.16	10.36	11.52	10.00	85.3	
Q3466-04	B9-0.5-1.0-20251023	27	1.17	10.38	11.55	9.85	83.6	
Q3466-05	B9-0.0-1.0-20251023	28	1.18	10.42	11.6	9.85	83.2	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 10/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:27
Out Date: 10/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137661

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
Q3466-06	B7-1.5-2.0-20251023	29	1.14	10.35	11.49	10.57	91.1	
Q3466-07	B7-1.0-2.0-20251023	30	1.16	10.65	11.81	10.66	89.2	
Q3469-01	TP-13	31	1.18	10.10	11.28	10.38	91.1	
Q3469-02	TP-13-EPH	32	1.12	11.10	12.22	10.21	81.9	
Q3469-03	TP-13-VOC	33	1.11	10.41	11.52	10.52	90.4	
Q3470-01	PILC-1	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3470-02	PILC-2	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3472-04	COMP-1	36	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3472-06	COMP-2	37	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3472-08	COMP-3	38	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3472-10	COMP-4	39	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3472-12	COMP-5	40	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3472-14	155	41	1.00	1.00	2.00	2.00	100.0	debris
Q3472-16	142	42	1.00	1.00	2.00	2.00	100.0	oil sample
Q3472-18	137	43	1.00	1.00	2.00	2.00	100.0	oil sample
Q3474-01	WASTE	44	1.18	10.39	11.57	10.24	87.2	
Q3474-02	VOC	45	1.11	10.43	11.54	10.14	86.6	
Q3474-03	1	46	1.18	10.32	11.5	9.87	84.2	
Q3474-04	2	47	1.19	10.47	11.66	9.97	83.9	
Q3474-05	3	48	1.16	10.56	11.72	10.32	86.7	
Q3474-06	4	49	1.18	10.27	11.45	10.1	86.9	
Q3474-07	5	50	1.16	10.61	11.77	10.27	85.9	

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

WORKLIST(Hardcopy Internal Chain)

WR 13766

WorkList Name : %1-102725 **WorkList ID :** 192686 **Department :** Wet-Chemistry **Date :** 10-27-2025 08:17:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3459-01	Y2404-0071-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-02	Y2404-0071-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-03	Y2404-0071-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-04	Y2404-0071-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-05	BC259240LOK-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-06	BC259240LOK-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-07	BC271327-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-08	BC271327-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-09	BC271327-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-10	BC271327-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-11	BC283118LOK-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-12	BC283118LOK-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-13	BC283118LOK-END-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-14	BC283118LOK-END-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-15	BC283118LOK-END-3-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-16	BC283118LOK-END-3-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-17	BC283118LOK-END-4-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3459-18	BC283118LOK-END-4-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3461-01	SS-9R(4.5-5.0)	Solid	Percent Solids	Cool 4 deg C	MATR02	D41	10/24/2025	Chemtech -SO
Q3461-02	SS-9R(5.0-5.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	D41	10/24/2025	Chemtech -SO
Q3461-03	SS-25(4.5-5.0)	Solid	Percent Solids	Cool 4 deg C	MATR02	D41	10/24/2025	Chemtech -SO

Date/Time 10/27/25 15:30

Raw Sample Received by: JB WQC

Raw Sample Relinquished by:

Date/Time 10/27/25 17:45

Raw Sample Received by:

Raw Sample Relinquished by: JB WQC

WORKLIST(Hardcopy Internal Chain)

WF137661

WorkList Name : %1-102725 **WorkList ID :** 192686 **Department :** Wet-Chemistry **Date :** 10-27-2025 08:17:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3461-04	SS-25(5.0-5.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	D41	10/24/2025	Chemtech -SO
Q3465-01	SU-03-10242025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/24/2025	Chemtech -SO
Q3465-02	SU-03-10242025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/24/2025	Chemtech -SO
Q3466-01	B8-0.5-1.0-20251023	Solid	Percent Solids	Cool 4 deg C	HDRI08	D41	10/23/2025	Chemtech -SO
Q3466-02	B8-0.0-1.0-20251023	Solid	Percent Solids	Cool 4 deg C	HDRI08	D41	10/23/2025	Chemtech -SO
Q3466-04	B9-0.5-1.0-20251023	Solid	Percent Solids	Cool 4 deg C	HDRI08	D41	10/23/2025	Chemtech -SO
Q3466-05	B9-0.0-1.0-20251023	Solid	Percent Solids	Cool 4 deg C	HDRI08	D41	10/23/2025	Chemtech -SO
Q3466-06	B7-1.5-2.0-20251023	Solid	Percent Solids	Cool 4 deg C	HDRI08	D41	10/23/2025	Chemtech -SO
Q3466-07	B7-1.0-2.0-20251023	Solid	Percent Solids	Cool 4 deg C	HDRI08	D41	10/23/2025	Chemtech -SO
Q3469-01	TP-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/25/2025	Chemtech -SO
Q3469-02	TP-13-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/25/2025	Chemtech -SO
Q3469-03	TP-13-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/25/2025	Chemtech -SO
Q3470-01	PILC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3470-02	PILC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3472-04	COMP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3472-06	COMP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3472-08	COMP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3472-10	COMP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3472-12	COMP-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3472-14	155	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3472-16	142	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO

Date/Time 10/27/25 15:30

Raw Sample Received by: TB WDC

Raw Sample Relinquished by: CP

Date/Time 10/27/25 17:45

Raw Sample Received by: CP

Raw Sample Relinquished by: TB WDC

WORKLIST(Hardcopy Internal Chain)

UB 137661

WorkList Name : %1-102725 **WorkList ID :** 192686 **Department :** Wet-Chemistry **Date :** 10-27-2025 08:17:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3472-18	137	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/27/2025	Chemtech -SO
Q3474-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	J31	10/27/2025	Chemtech -SO
Q3474-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	J31	10/27/2025	Chemtech -SO
Q3474-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	J31	10/27/2025	Chemtech -SO
Q3474-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	J31	10/27/2025	Chemtech -SO
Q3474-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	J31	10/27/2025	Chemtech -SO
Q3474-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	J31	10/27/2025	Chemtech -SO
Q3474-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	J31	10/27/2025	Chemtech -SO

Date/Time 10/27/25 13:30

Raw Sample Received by: MC

Raw Sample Relinquished by:

Date/Time 10/27/25 17:45

Raw Sample Received by:

Raw Sample Relinquished by: MC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB170266

SOP ID:	MNJDEP-EPH-8				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/28/2025
Matrix :	Solid			**Extraction Start Time :**	09:05
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/28/2025
Balance check:	EH	**Filter By:**	RJ	**Extraction End Time :**	13:10
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP25005
Surrogate	1.0ML	100 PPM	PP24941
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	E3978
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:

Q3472 all samples 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
10/28/25	RS (Ext lab)	R. Patel / PLB Lab
13:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB170266

Analytical Method: MNJDEP-EPH-8 **Concentration Date:** 10/28/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170266BL	PB170266BL	EPH_NF	30.01	N/A	ritesh	Evelyn	2			U1-1
PB170266BS	PB170266BS	EPH_NF	30.03	N/A	ritesh	Evelyn	2			2
PB170266BSD	PB170266BSD	EPH_NF	30.02	N/A	ritesh	Evelyn	2			3
Q3452-01	JB-1	EPH_NF	30.04	N/A	ritesh	Evelyn	2	D		4
Q3452-02	JB-1-EPH	EPH_NF	30.08	N/A	ritesh	Evelyn	2			5
Q3465-01	SU-03-10242025	EPH_NF	30.07	N/A	ritesh	Evelyn	2	E		6
Q3465-02	SU-03-10242025-E2	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U2-1
Q3466-02	B8-0.0-1.0-20251023	EPH_NF	30.05	N/A	ritesh	Evelyn	2	B		2
Q3466-05	B9-0.0-1.0-20251023	EPH_NF	30.01	N/A	ritesh	Evelyn	2	A		3
Q3466-07	B7-1.0-2.0-20251023	EPH_NF	30.06	N/A	ritesh	Evelyn	2	B		4
Q3469-01	TP-13	EPH_NF	30.09	N/A	ritesh	Evelyn	2	B		5
Q3469-01DUP	TP-13DUP	EPH_NF	30.06	N/A	ritesh	Evelyn	2	B		6
Q3469-01MS	TP-13MS	EPH_NF	30.03	N/A	ritesh	Evelyn	2	B		U3-1
Q3469-01MSD	TP-13MSD	EPH_NF	30.04	N/A	ritesh	Evelyn	2	B		2
Q3469-02	TP-13-EPH	EPH_NF	30.05	N/A	ritesh	Evelyn	2			3
Q3472-04	COMP-1	EPH_NF	5.02	N/A	ritesh	Evelyn	2	C	Oily Debris	4
Q3472-06	COMP-2	EPH_NF	5.06	N/A	ritesh	Evelyn	2	B	Oily Debris	5
Q3472-08	COMP-3	EPH_NF	5.07	N/A	ritesh	Evelyn	2	B	Oily Debris	6
Q3472-10	COMP-4	EPH_NF	5.05	N/A	ritesh	Evelyn	2	B	Oily Debris	U4-1
Q3472-12	COMP-5	EPH_NF	5.03	N/A	ritesh	Evelyn	2	B	Oily Debris	2
Q3472-14	155	EPH_NF	5.04	N/A	ritesh	Evelyn	2	B	Oily Debris	3

RS 10/28

* **Extracts relinguished on the same date as received.**

1702669:05

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3465 **WorkList ID :** 192724 **Department :** Extraction **Date :** 10-28-2025 08:33:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3452-01	JB-1	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/24/2025	NJEPH
Q3452-02	JB-1-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/24/2025	NJEPH
Q3465-01	SU-03-10242025	Solid	EPH_NF	Cool 4 deg C	PSEG05	D31	10/24/2025	NJEPH
Q3465-02	SU-03-10242025-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	D31	10/24/2025	NJEPH
Q3466-02	B8-0.0-1.0-20251023	Solid	EPH_NF	Cool 4 deg C	HDRI08	D41	10/23/2025	NJEPH
Q3466-05	B9-0.0-1.0-20251023	Solid	EPH_NF	Cool 4 deg C	HDRI08	D41	10/23/2025	NJEPH
Q3466-07	B7-1.0-2.0-20251023	Solid	EPH_NF	Cool 4 deg C	HDRI08	D41	10/23/2025	NJEPH
Q3469-01	TP-13	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/25/2025	NJEPH
Q3469-02	TP-13-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/25/2025	NJEPH
Q3472-04	COMP-1	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/27/2025	NJEPH
Q3472-06	COMP-2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/27/2025	NJEPH
Q3472-08	COMP-3	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/27/2025	NJEPH
Q3472-10	COMP-4	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/27/2025	NJEPH
Q3472-12	COMP-5	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/27/2025	NJEPH
Q3472-14	155	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	10/27/2025	NJEPH

Date/Time 10/28/25 9:00
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by:

Date/Time 10/28/25 9:30
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ext-Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : Q3466

Test : EPH_NF

Prepbatch ID : PB170266,

Sequence ID/Qc Batch ID: FC102825AL,FE102825AL,FE102925AL,

Standard ID :
EP2641,EP2655,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24941,PP24994,PP25005,

Chemical ID :
E3875,E3951,E3956,E3972,E3973,E3974,E3978,P12364,P13280,P13281,P13620,P13690,P14029,P14030,P14031,P14032,P14127,P14128,P14129,P14130,P14131,P14132,P14133,P14134,P14135,P14136,P14147,P14148,P14149,P14150,P14170,P14171,P14172,P14173,P14195,P14196,P14197,P14198,P14199,P14200,P14201,P14202,P14203,P14204,W3234,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/24/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
781	100 PPM Aliphatic HC Working STD (Restek)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2900	100 PPM Aliphatic HC STD (Absolute)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2901	20 PPM Aliphaitic 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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1339	100 PPM NJEPH Surrogate Spike	PP24941	09/24/2025	03/24/2026	Abdul Mirza	None	None	Yogesh Patel 10/03/2025

FROM 1.25000ml of P14029 + 1.25000ml of P14030 + 1.25000ml of P14031 + 1.25000ml of P14032 + 1.25000ml of P14147 + 1.25000ml of P14148 + 1.25000ml of P14149 + 1.25000ml of P14150 + 490.00000ml of E3972 = Final Quantity: 500.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	PP25005	10/22/2025	04/22/2026	Abdul Mirza	None	None	Yogesh Patel 11/04/2025

FROM 5.00000ml of P14127 + 5.00000ml of P14128 + 5.00000ml of P14129 + 5.00000ml of P14130 + 5.00000ml of P14131 + 5.00000ml of P14132 + 5.00000ml of P14133 + 5.00000ml of P14134 + 5.00000ml of P14135 + 5.00000ml of P14136 + 5.00000ml of P14195 + 5.00000ml of P14196 + 5.00000ml of P14197 + 5.00000ml of P14198 + 5.00000ml of P14199 + 5.00000ml of P14200 + 5.00000ml of P14201 + 5.00000ml of P14202 + 5.00000ml of P14203 + 5.00000ml of P14204 = Final Quantity: 100.000 ml

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

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 #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/13/2026	10/13/2025 / RUPESH	10/08/2025 / Riteshkumar	E3978

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

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

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 #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14031

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14032

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

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 #
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

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

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 #
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	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14147

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14150

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 #
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

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

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 #
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

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

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 #
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

avantor™ | J.T.Baker

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) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Darkened by H_2SO_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

E 3974

JCroak
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

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE **RMB3375)**	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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.

E 3875

VWR®
BDH® CHEMICALS

Certificate of Analysis

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	SiO2
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 7/9/25.

E3951

Internal ID #: 793

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

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

avantor™ | J.T.Baker

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) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_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

Recieved on 7/16/25

E3956

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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

JCroak
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

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

avantor™ | J.T.Baker

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) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Darkened by H_2SO_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

E 3978

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14127 (13) → P14141 / 9/16/25

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

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

P12361 ↓ P12370 } Y.P. 03/16/23

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) **CAS #** 111-84-2 (Lot SHBN5361) **Purity** 99%	2,014.0 µg/mL	+/- 11.8193 µg/mL +/- 50.0027 µg/mL +/- 59.9491 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 50.0193 µg/mL +/- 59.9689 µg/mL	Gravimetric Unstressed Stressed
3	Naphthalene **CAS #** 91-20-3 (Lot MKCH0219) **Purity** 99%	2,015.3 µg/mL	+/- 11.8271 µg/mL +/- 50.0358 µg/mL +/- 59.9888 µg/mL	Gravimetric Unstressed Stressed
4	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 49.8538 µg/mL +/- 59.7705 µg/mL	Gravimetric Unstressed Stressed
5	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBK0259) **Purity** 96%	2,007.0 µg/mL	+/- 11.7784 µg/mL +/- 49.8299 µg/mL +/- 59.7419 µg/mL	Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	2,016.7 µg/mL	+/- 11.8349 µg/mL +/- 50.0689 µg/mL +/- 60.0284 µg/mL	Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	2,014.9 µg/mL	+/- 11.8244 µg/mL +/- 50.0246 µg/mL +/- 59.9753 µg/mL	Gravimetric Unstressed Stressed

8	n-Octadecane (C18) **CAS #** 593-45-3 **Purity** 97%	(Lot VZKOJ)	2,004.7	µg/mL	+/- 11.7645 +/- 49.7710 +/- 59.6712	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Heneicosane (C21) **CAS #** 629-94-7 **Purity** 99%	(Lot MKCL3226)	2,000.7	µg/mL	+/- 11.7410 +/- 49.6717 +/- 59.5522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	2,005.3	µg/mL	+/- 11.7684 +/- 49.7876 +/- 59.6911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	2,014.0	µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	2,002.0	µg/mL	+/- 11.7489 +/- 49.7048 +/- 59.5919	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 97%	(Lot MKCQ9436)	2,011.1	µg/mL	+/- 11.8025 +/- 49.9316 +/- 59.8637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	2,012.0	µg/mL	+/- 11.8075 +/- 49.9531 +/- 59.8895	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	2,006.7	µg/mL	+/- 11.7762 +/- 49.8207 +/- 59.7308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot Z27H018)	2,017.3	µg/mL	+/- 11.8388 +/- 50.0855 +/- 60.0483	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 96%	(Lot 0000145137)	2,017.3	µg/mL	+/- 11.8385 +/- 50.0842 +/- 60.0467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 99%	(Lot BSBME)	2,008.7	µg/mL	+/- 11.7880 +/- 49.8703 +/- 59.7903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Carbon disulfide (80:20)
CAS # 110-54-3/75-15-0
Purity 99%

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

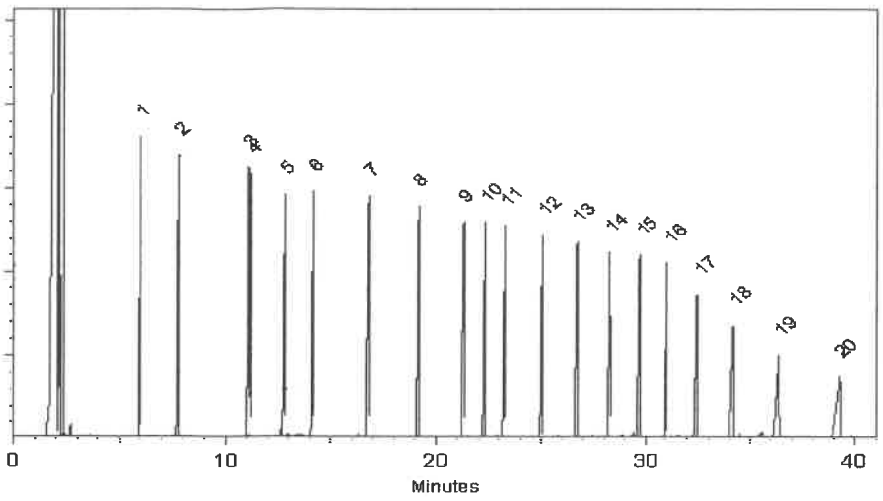
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

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:

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

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.

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

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95899
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

Solvent(s):	Lot#
Cyclohexane	28930

P13278 & P13287 } Y.P. 04111124

Formulated By:	Anthony Mahoney	040524 DATE
Reviewed By:	Pedro L. Rentas	040524 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Flask Uncertainty
CAUTION: Sonicate Before Use

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	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	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	orl-rat 1630mg/kg
2.	Naphthalene	(0222)	MKBZ8680V	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m3/8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	**120222**	1.00	25.00	1000.9	1000	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	NA	NA	1000.3	4.1	593-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Heneicosane	95708	120222	1.00	25.00	1002.4	1000	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetratriacontane	95708	120222	1.00	25.00	1000.4	1000	NA	NA	0.013	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	NA	NA	0.013	NA	NA	1000.8	4.2	630-06-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7194-85-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	NA	NA	0.013	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 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).

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

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95899
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

Solvent(s):	Lot#
Cyclohexane	28930

P13278 & P13287 } Y.P. 04111124

Formulated By:	Anthony Mahoney	040524 DATE
Reviewed By:	Pedro L. Rentas	040524 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Flask Uncertainty
CAUTION: Sonicate Before Use

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	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	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	orl-rat 1630mg/kg
2.	Naphthalene	(0222)	MKBZ8680V	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m3/8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	**120222**	1.00	25.00	1000.9	1000	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	NA	NA	1000.3	4.1	593-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Heneicosane	95708	120222	1.00	25.00	1002.4	1000	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	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	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetratriacontane	95708	120222	1.00	25.00	1000.4	1000	NA	NA	0.013	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	NA	NA	0.013	NA	NA	1000.8	4.2	630-06-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7194-85-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	NA	NA	0.013	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 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).

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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-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.)

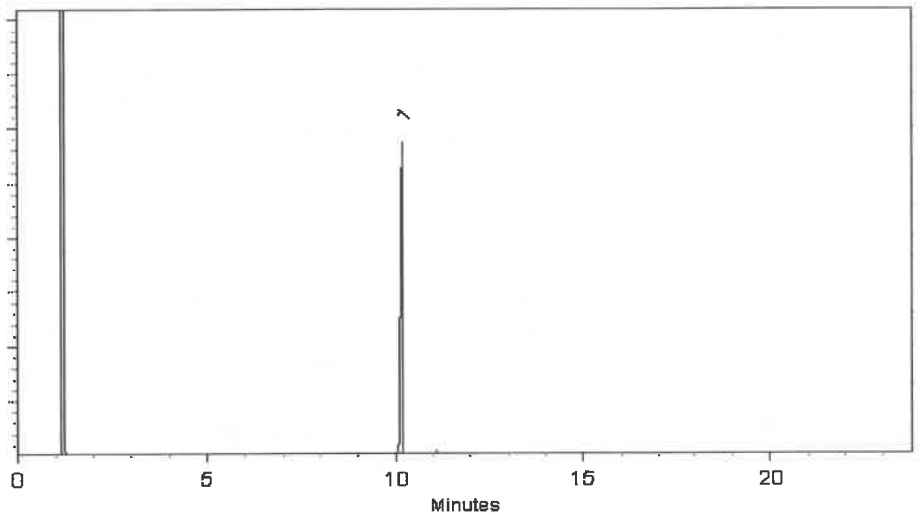
Inj. Temp:
250°C

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.

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:

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

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

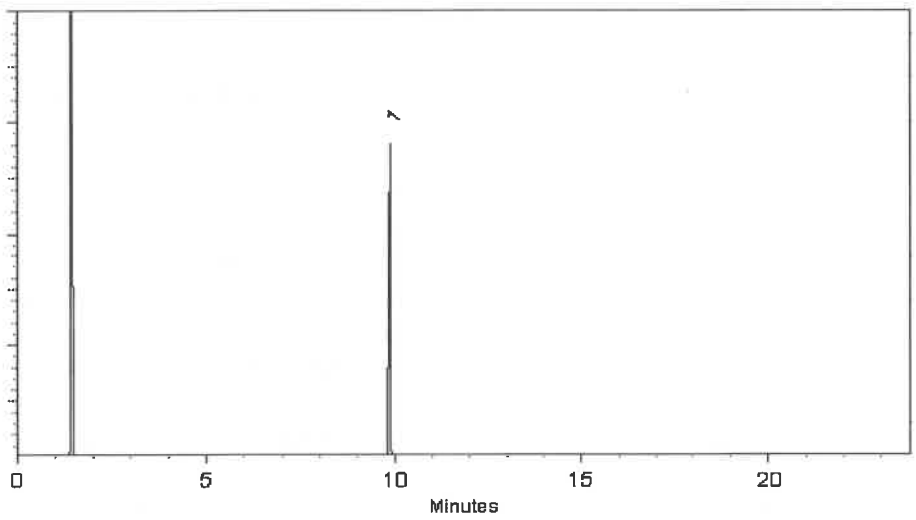
Inj. Temp:
250°C

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:

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

  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.

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P140028 ↓ P140042 RC 6/2/25

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

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.)

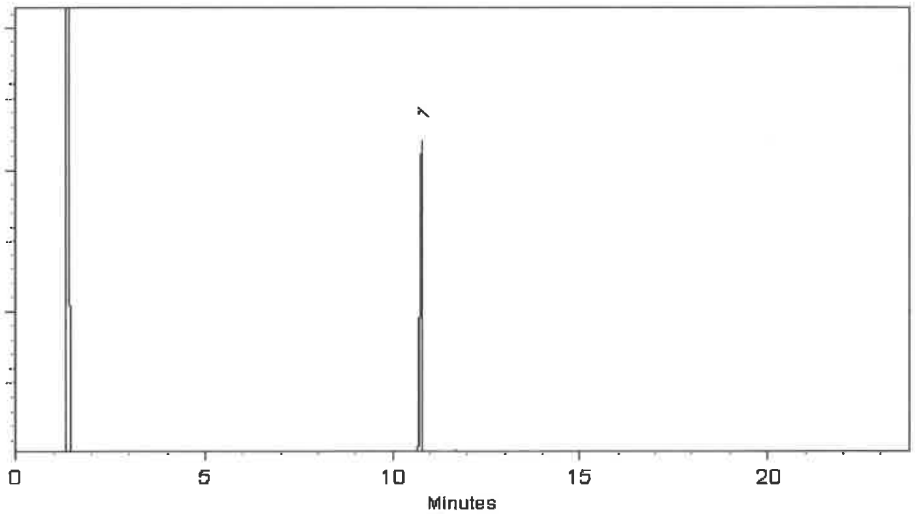
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P140028 ↓ P140042 RC 6/2/25

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

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.)

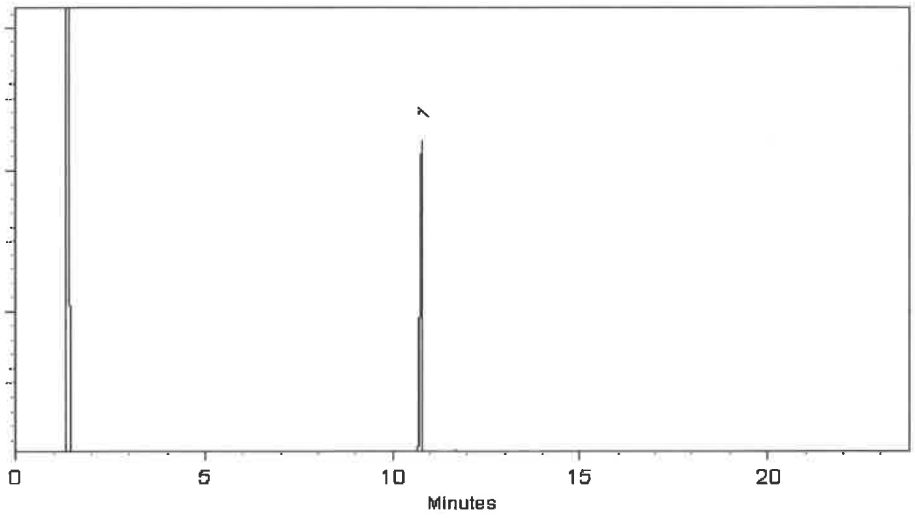
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P140028 ↓ P140042 RC 6/2/25

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

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.)

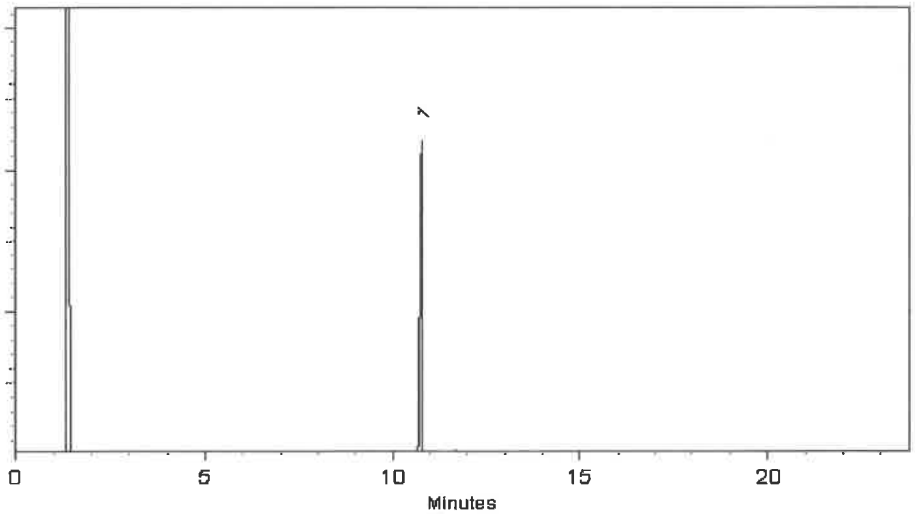
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P140028 ↓ P140042 RC 6/2/25

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

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.)

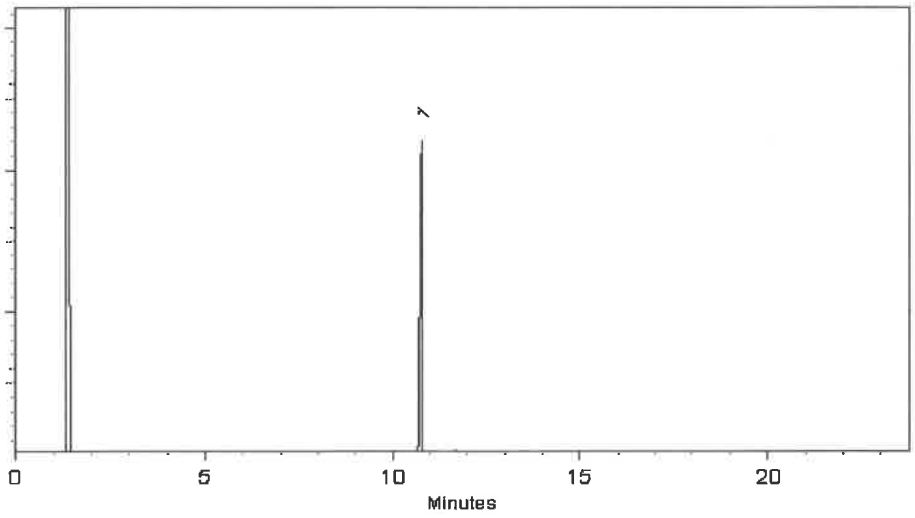
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 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
(20)

10/3/2025

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 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
(20)

10/3/2025

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 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
(20)

10/3/2025

RESTEK
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

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 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
(20)

10/3/2025

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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.

P14195 (40) → P14234

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

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

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

avantor™ | J.T.Baker

W3234 JB
Update: 07/28/2025

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) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_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

JCroak
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

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

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

ALLIANCE PROJECT NO.
QUOTE NO. Q34666
COC Number 2044567

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: HDR
ADDRESS: 50 Tice Blvd Suite 210
CITY Woodcliff Lake STATE: NJ ZIP: 07677
ATTENTION: Andrew Wadden
PHONE: 201-312-0752 FAX: N/A

CLIENT PROJECT INFORMATION

PROJECT NAME: PVWC
PROJECT NO.: 10367568 LOCATION: Passaic, NJ
PROJECT MANAGER: Andrew Wadden
e-mail: Andrew.Wadden@HDRInc.com
PHONE: 201-312-0752 FAX: N/A

CLIENT BILLING INFORMATION

BILL TO: HDR PO#:
ADDRESS: 50 Tice Blvd Suite 210
CITY Woodcliff Lake STATE: NJ ZIP: 07677
ATTENTION: Andrew Wadden PHONE: 201-312-0752

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STANDARD TAT DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☒ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: TCL VOCs
2: TCL SVOCs
3: Pesticides, Cyanide
4: Polychlorinated Biphenyls, TAL Metals
5: TCLP for Metals, Hexavalent Chromium
6: Mercury; EPH; Ignitability
7: Reactive Cyanide and Sulfide, Corrosivity
8: 2,3,7,8 Tetrachloro-dibenzo-P-dioxin
9: Paint filter

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B8-0.5-1.0-20251023	S		X	10/23	1015	4	X									
2.	B8-0.0-1.0-20251023			X		1030	6		X	X	X	X	X	X	X	X	
3.	B9-0.5-1.0-20251023			X		1140	4	X									
4.	B9-0.0-1.0-20251023			X		1150	3		X	X	X						
5.	B7-1.5-2.0-20251023			X		1340	4	X									
6.	B7-1.0-2.0-20251023			X		1350	3		X	X	X						
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	10-24-25 1417	1.	10-24-25 1417
2.		2.	
3.	10-24-25 1944	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3 °C
Comments:

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3466 HDRI08
Client Name : HDR, Inc.
Client Contact : Andrew Wadden
Invoice Name : HDR, Inc.
Invoice Contact : Andrew Wadden

Order Date : 10/24/2025 3:18:10 PM
Project Name : PVWC Linear Construction
Receive DateTime : 10/24/2025 12~~:00:00 AM~~ 7:49PM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3466-01	B8-0.5-1.0-20251023	Solid	10/23/2025	10:15	VOC-TCLVOA-10		8260D		10 Bus. Days
Q3466-04	B9-0.5-1.0-20251023	Solid	10/23/2025	11:40 ~~10:15~~	VOC-TCLVOA-10		8260D		10 Bus. Days
Q3466-06	B7-1.5-2.0-20251023	Solid	10/23/2025	13:40 ~~10:15~~	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By :
Date / Time : 10/27/25 0855

Received By :
Date / Time : 10/27/25 1755
Storage Area : VOA Refridgerator Room