Energy Laboratories Inc

ANALYTICAL RUN Summary

14-Jan-22

Run ID PE 1_211208B

Run Start Date: 12/8/2021
Analyst: Josie Pickard
Ical: 0
Column ID: Rtx-502.2
Comments:

Instrument ID	Description
VOC1-14	2-Place Balance

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
GAS210122	Unleaded Gasoline Comp. Std.(2.0uL)						6/7/2023
GASL211208	Low Gasoline Std.						6/7/2023
GQC201214	Gasoline Composite Mix (1.68uL)	1.68	ul			ICV	4/2/2030
GROS200921	Gro Stock Standard Mt.Gro	0.84	ul			Marker	3/28/2029
SHP0292	VOA 1:1 HCl:H2O Solution	3	drops			ALL	12/15/2025
TFT211208	TFT (1.05uL)						9/10/2029
TFTL211208	TFTL						9/10/2029
TFTM211208	TFTM						9/10/2029

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910960	CCV_1208PE12	HC-8015-GRO-	CCV		12/8/2021 10:39:	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	245.5184	245.5184		168	0	0	2.32	20	0	146%	80	120	0%	S
Total Purgeable Hydrocarbons	A	ug/L	256.3839	256.3839		200	0	0	3.56	20	0	128%	80	120	0%	S
Trifluorotoluene	S	ug/L	21.39915	21.39915		25	0	0	0.0743	1	0	86%	80	120	0%	
GRO as Gasoline	X	ug/L	245.5184	245.5184		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910961	CCV_1208PE12	HC-8015-GRO-	CCV		12/9/2021 12:59:	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	16.13485	16.13485		16.8	0	0	2.32	20	0	96%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	18.94534	18.94534		20	0	0	3.56	20	0	95%	80	120	0%	
Trifluorotoluene	S	ug/L	1.062791	1.062791		1	0	0	0.0743	1	0	106%	80	120	0%	
GRO as Gasoline	X	ug/L	16.13485	16.13485		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910962	CCV_1208PE12	HC-8015-GRO-	CCV		12/9/2021 1:34:2	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	84.50686	84.50686		84	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	100.3098	100.3098		100	0	0	3.56	20	0	100%	80	120	0%	
Trifluorotoluene	S	ug/L	5.58406	5.58406		5	0	0	0.0743	1	0	112%	80	120	0%	
GRO as Gasoline	X	ug/L	84.50686	84.50686		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910963	CCV_1208PE12	HC-8015-GRO-	CCV		12/9/2021 2:09:2	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	169.3677	169.3677		168	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	201.89	201.89		200	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	23.42411	23.42411		25	0	0	0.0743	1	0	94%	80	120	0%	
GRO as Gasoline	X	ug/L	169.3677	169.3677		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910964	CCV_1208PE12	HC-8015-GRO-	CCV		12/9/2021 2:44:2	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	849.1638	849.1638		840	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	1017.955	1017.955		1000	0	0	3.56	20	0	102%	80	120	0%	
Trifluorotoluene	S	ug/L	93.30469	93.30469		100	0	0	0.0743	1	0	93%	80	120	0%	
GRO as Gasoline	X	ug/L	849.1638	849.1638		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910965	CCV_1208PE13	HC-8015-GRO-	CCV		12/9/2021 3:19:3	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	1704.373	1704.373		1680	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	2044.461	2044.461		2000	0	0	3.56	20	0	102%	80	120	0%	
Trifluorotoluene	S	ug/L	190.0902	190.0902		200	0	0	0.0743	1	0	95%	80	120	0%	
GRO as Gasoline	X	ug/L	1704.373	1704.373		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910966	LCS_1208PE13	HC-8015-GRO-	LCS		12/9/2021 4:29:4	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	170.5147	170.5147		170	0	0	2.32	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	208.3308	208.3308		200	0	0	3.56	20	0	104%	80	120	0%	
Trifluorotoluene	S	ug/L	22.09964	22.09964		25	0	0	0.0743	1	0	88%	80	120	0%	
GRO as Gasoline	X	ug/L	170.5147	170.5147		170	0	0	2.32	20	0	100%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14910967	CCV_1208PE13	HC-8015-GRO-	CCV		12/9/2021 5:04:4	1	R371441		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	169.2249	169.2249		168	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.0202	202.0202		200	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	23.20175	23.20175		25	0	0	0.0743	1	0	93%	80	120	0%	
GRO as Gasoline	X	ug/L	169.2249	169.2249		0	0	0	2.32	20	0	0%	0	0	0%	

Write Sequence | Insert Entries(Have the first cell for entries selecte

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\PE1\DAT\PE1120821_b\1208PE1.22r	CCV_1208PE122r, GQC ;1208PE1 , 8015 Marker	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.23r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.24r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.25r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.26r	CCV_1208PE126r, GQC ;1208PE1 , G1	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.27r	CCV_1208PE127r, GQC ;1208PE1 , G2	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.28r	CCV_1208PE128r, GQC ;1208PE1 , G3	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.29r	CCV_1208PE129r, GQC ;1208PE1 , G4	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.30r	CCV_1208PE130r, GQC ;1208PE1 , G5	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.31r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.32r	LCS_1208PE132r, GQC ;1208PE1 , ICV	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.33r	CCV_1208PE133r, GQC ;1208PE1 , CCV	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1120821_b\1208PE1.34r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0

File Name: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Version: 4

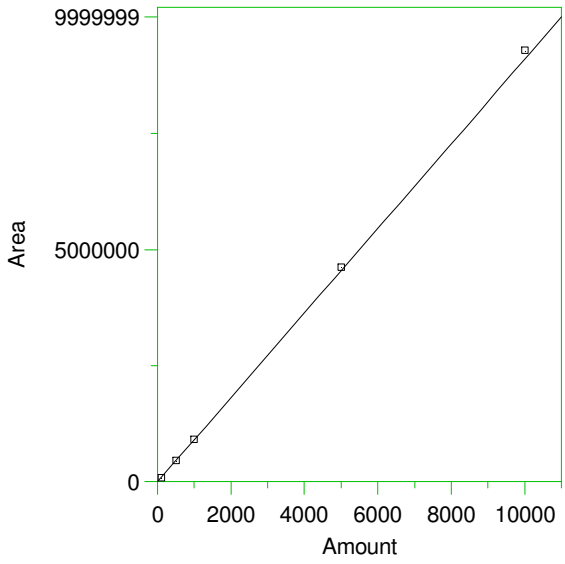
Creator: jmp
Description: 8015 GRO Composite Gasoline Std 12/8/21
Reason for change:

External standard calibration
Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 50
Reference peak area reject threshold: 15000
Amount units: nanograms
No default component

Method of calculating data point averages: Current update equal to cal data
Print calibration update report

All levels are normal data points.

1 TPH



Expected retention time: 4.55 minutes
Search window: 0.1 minutes
No retention time reference component
Group number: 1

High alarm limit: 1000000
Low alarm limit: 1000
Component constant: 1

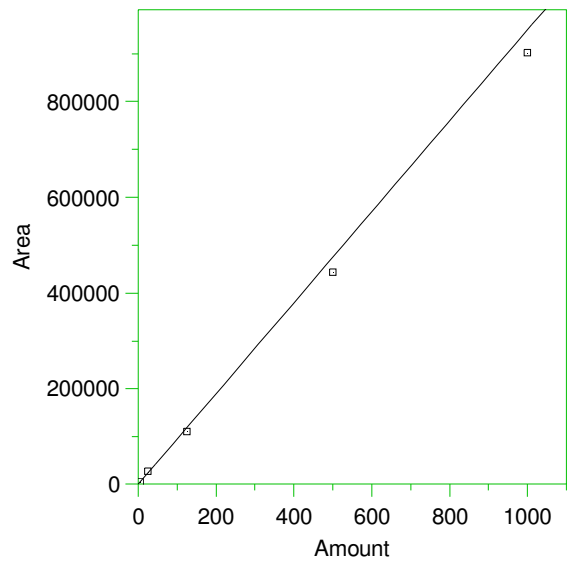
Single peak quantification by area

Y = 909.3915 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9992262
Average error: 2.109%
Average CF: 909.3915
RSD: 3.040%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	100	86143.63	861.4363	-5.273	Manual	12/9/2021 7:44:50 AM
2	500	456104.3	912.2086	0.310	Manual	12/9/2021 7:45:04 AM
3	1000	917985.1	917.9851	0.945	Manual	12/9/2021 7:45:17 AM
4	5000	4628599	925.7198	1.796	Manual	12/9/2021 7:45:32 AM
5	10000	9296078	929.6078	2.223	Manual	12/9/2021 7:45:57 AM

2 **Trifluorotoluene



Expected retention time:	8.7 minutes
Search window:	0.1 minutes
No retention time reference component	
Group number:	1
High alarm limit:	1000000
Low alarm limit:	1000
Component constant:	1

Single peak quantification by area

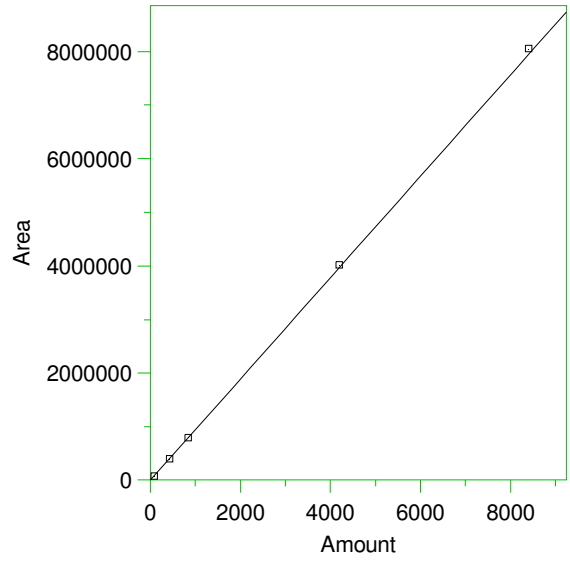
Y = 949.8164 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9943398
Average error:	7.181%
Average CF:	949.8164
RSD:	8.439%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5	5047	1009.4	6.273	Manual	12/9/2021 7:37:16 AM
2	25	26519	1060.76	11.681	Manual	12/9/2021 7:40:13 AM
3	125	111243	889.944	-6.304	Manual	12/9/2021 7:41:25 AM
4	500	443112	886.224	-6.695	Manual	12/9/2021 7:42:24 AM
5	1000	902754	902.754	-4.955	Manual	12/9/2021 7:43:15 AM

3 GRO Range End



Expected retention time:	17.83 minutes
Search window:	0.1 minutes
No retention time reference component	
Group number:	1
High alarm limit:	1000000
Low alarm limit:	1000
Component constant:	1

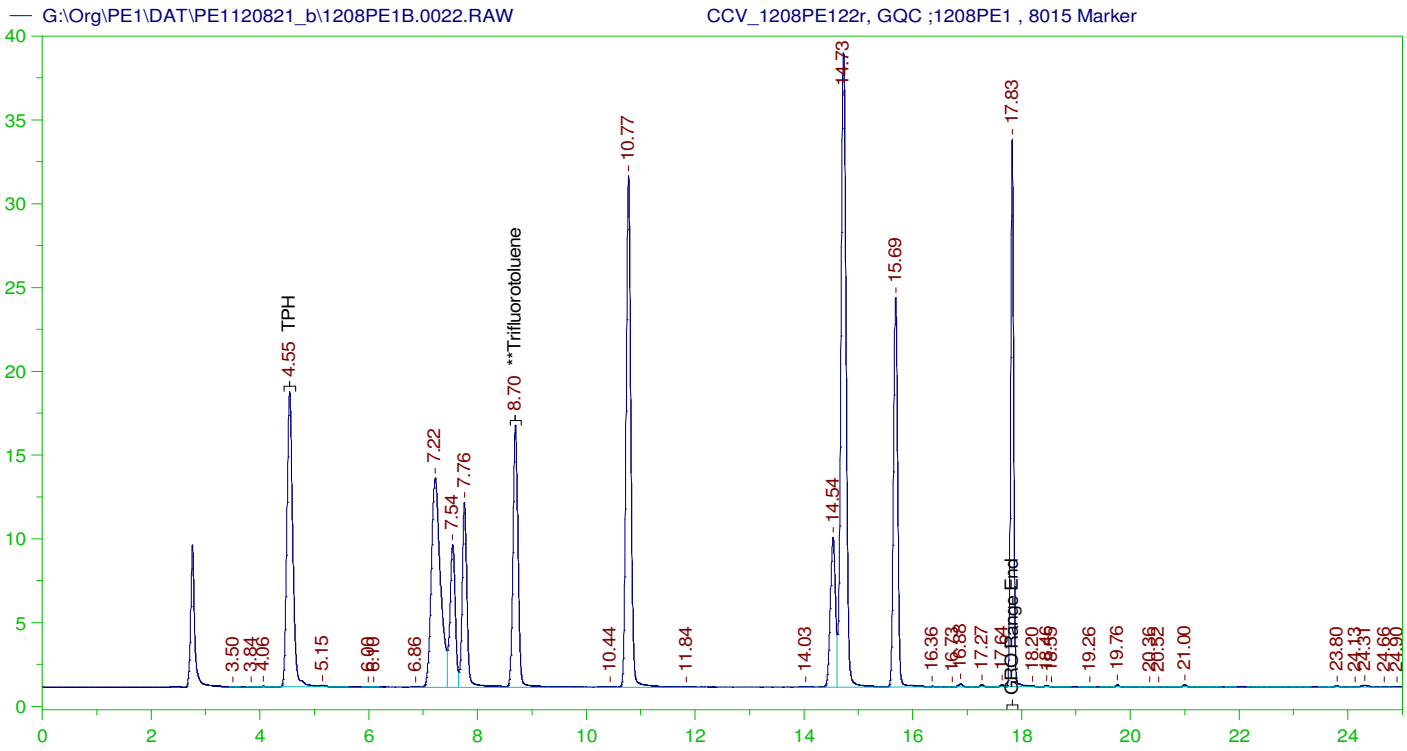
Single peak quantification by area

Y = 945.9678 X + 0

Average CF fit with equal weighting, forced to origin

Coefficient of determination:	0.9996708
Average error:	1.584%
Average CF:	945.9678
RSD:	2.236%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	84	76315.23	908.5146	-3.959	Manual	12/9/2021 7:44:54 AM
2	420	399703.8	951.6757	0.603	Manual	12/9/2021 7:45:09 AM
3	840	801082.1	953.6692	0.814	Manual	12/9/2021 7:45:23 AM
4	4200	4016408	956.2876	1.091	Manual	12/9/2021 7:45:44 AM
5	8400	8061411	959.6918	1.451	Manual	12/9/2021 7:46:02 AM



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208PE122r, GQC ;1208PE1 , 8015 Marker
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0022.RAW
Date & Time Acquired: 12/8/2021 10:39:19 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

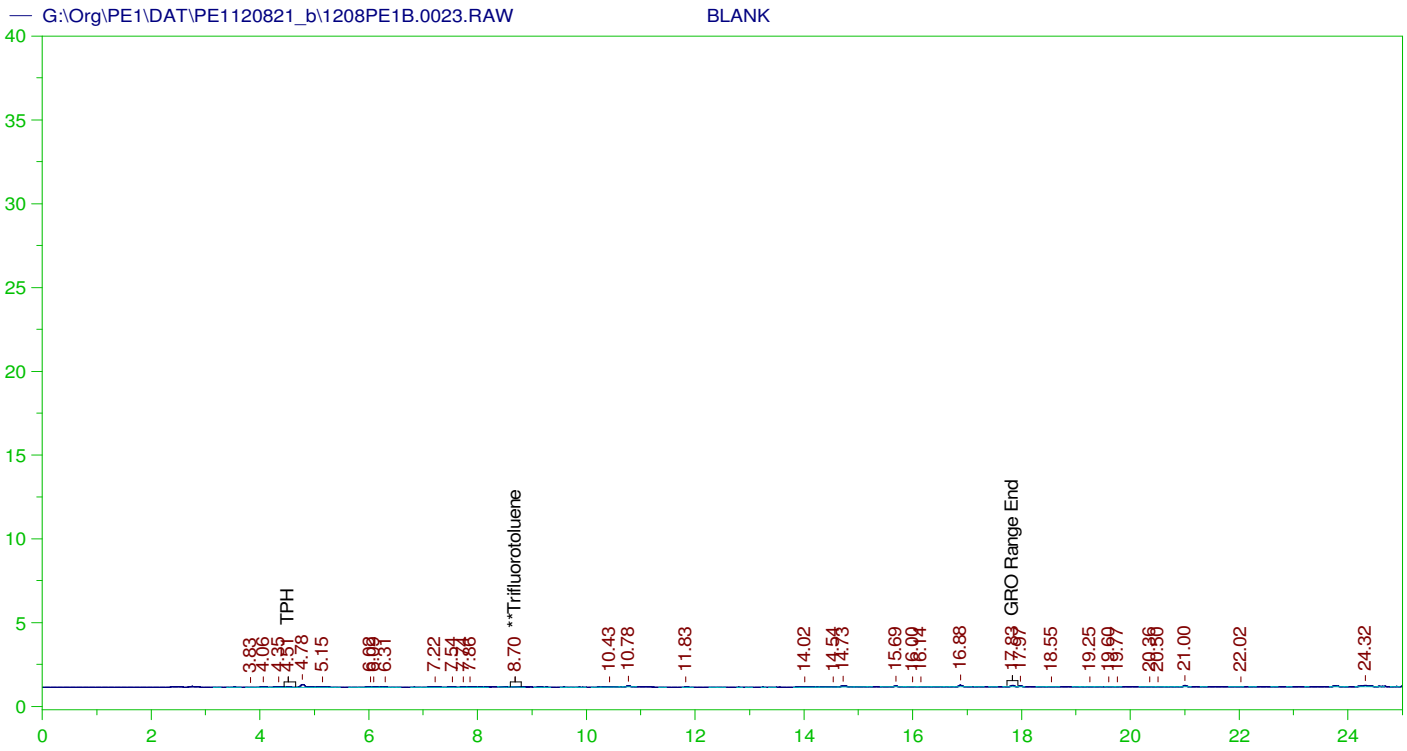
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.697	125.	106.996	85.6	-

GRO Area:1161262 GRO Amount: 1227.592
TPH Area:1165767 TPH Amount: 1281.92

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0022.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	1227.59	146.14	85-115
TPH	1000.	1281.92	128.19	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.697	125.	106.996	85.6	85-115



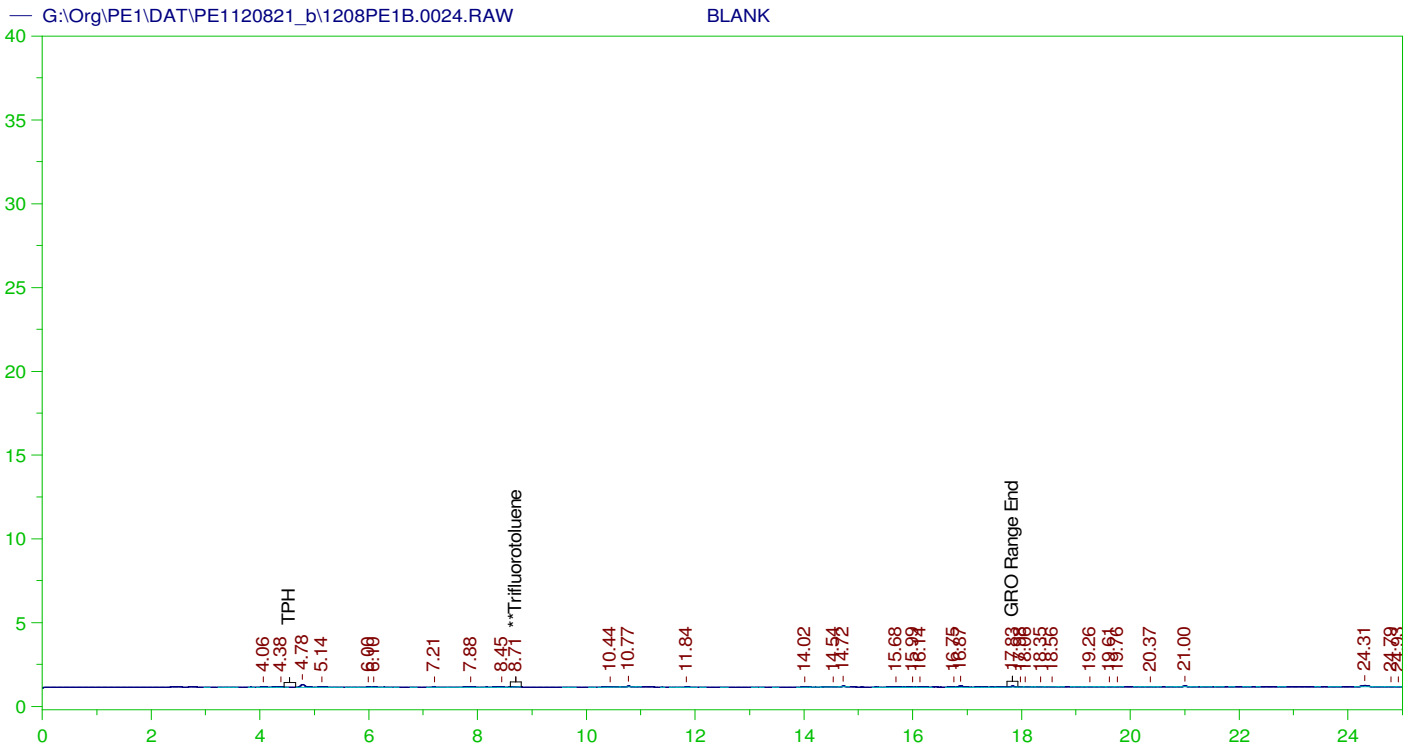
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0023.RAW
Date & Time Acquired: 12/8/2021 11:14:25 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.696	125.	.173	.14	-

GRO Area:6425.571 GRO Amount: 6.79259
TPH Area:8542.397 TPH Amount: 9.393532



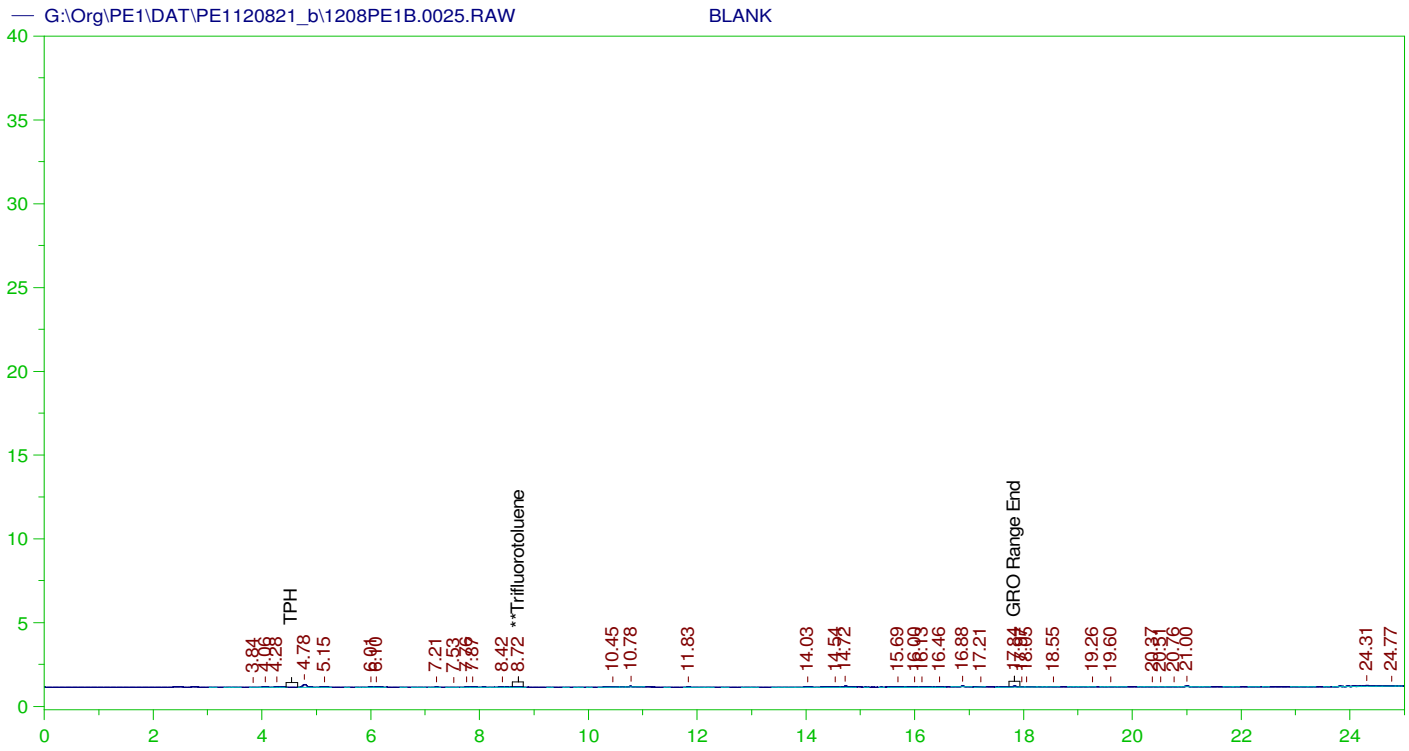
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0024.RAW
Date & Time Acquired: 12/8/2021 11:49:21 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.709	125.	.078	.06	-

GRO Area:5165.113 GRO Amount: 5.460136
TPH Area:7678.714 TPH Amount: 8.443793



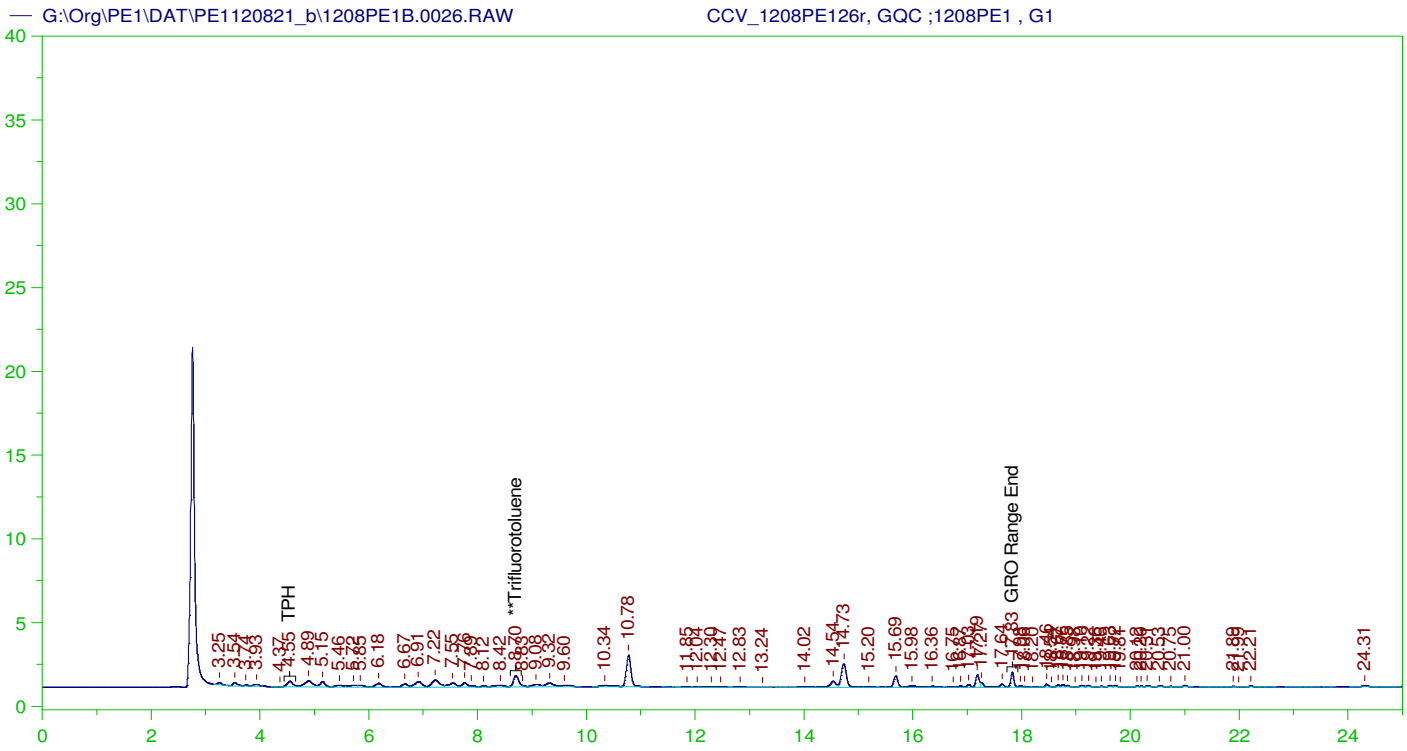
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0025.RAW
Date & Time Acquired: 12/9/2021 12:24:28 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.721	125.	.148	.12	-

GRO Area:5271.259 GRO Amount: 5.572345
TPH Area:7787.289 TPH Amount: 8.563187



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208PE126r, GQC ;1208PE1 , G1
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0026.RAW
Date & Time Acquired: 12/9/2021 12:59:27 AM
Method File: G:\Org\PE1\Methods\211208GROG1B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

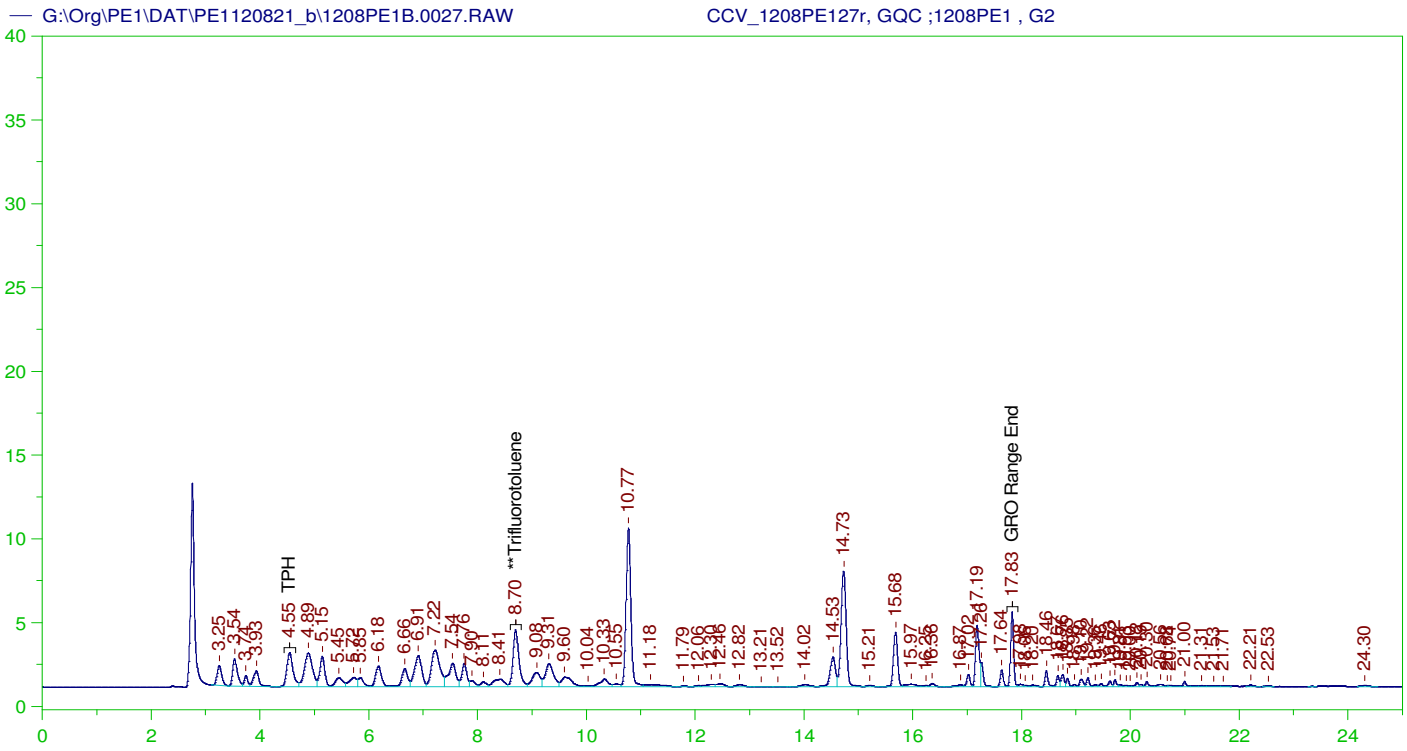
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.703	125.	5.314	4.25	-

GRO Area:76315.23 GRO Amount: 80.67424
TPH Area:86143.63 TPH Amount: 94.72668

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0026.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	80.67	9.6	85-115
TPH	1000.	94.73	9.47	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.703	125.	5.314	4.25	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208PE127r, GQC ;1208PE1 , G2
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0027.RAW
Date & Time Acquired: 12/9/2021 1:34:28 AM
Method File: G:\Org\PE1\Methods\211208GROG2B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

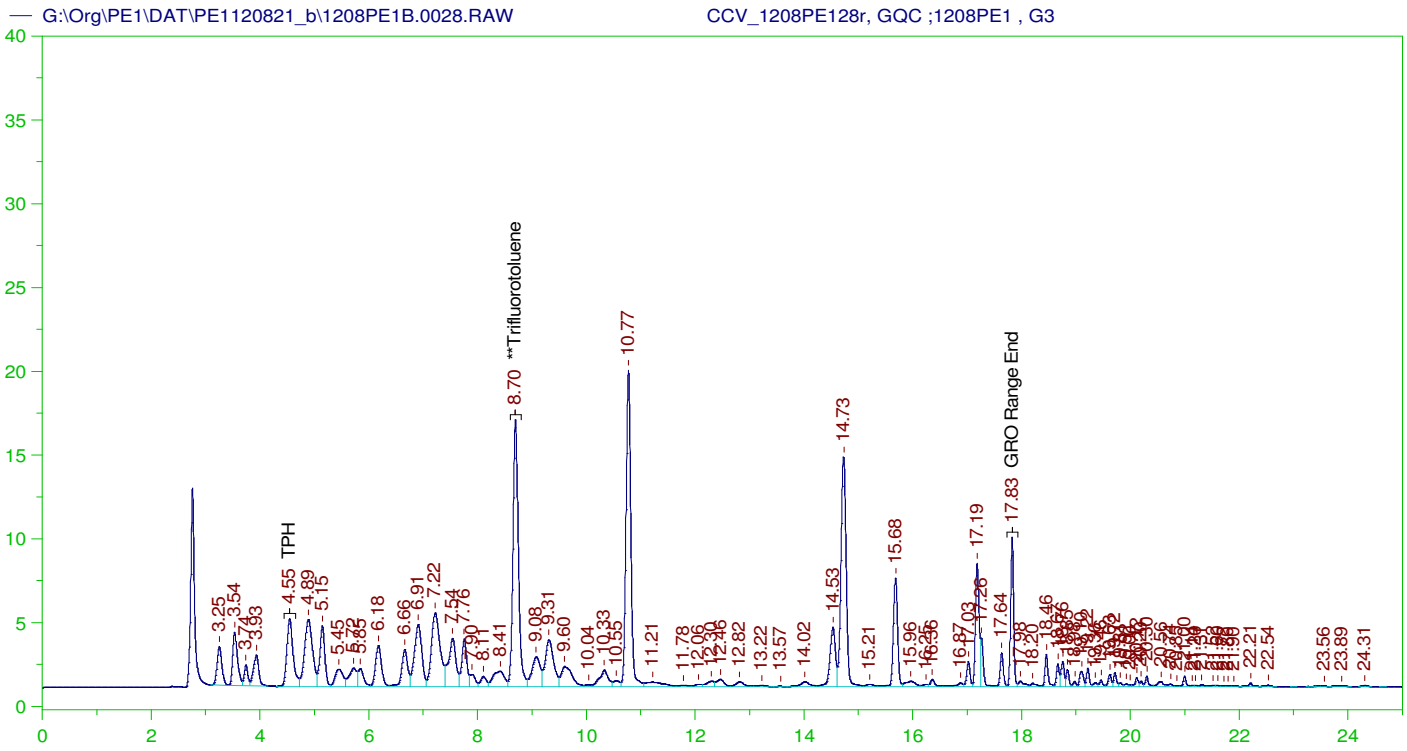
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.701	125.	27.92	22.34	-

GRO Area:399703.8 GRO Amount: 422.5343
TPH Area:456104.3 TPH Amount: 501.549

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0027.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	422.53	50.3	85-115
TPH	1000.	501.55	50.15	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.701	125.	27.92	22.34	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208PE128r, GQC ;1208PE1 , G3
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0028.RAW
Date & Time Acquired: 12/9/2021 2:09:28 AM
Method File: G:\Org\PE1\Methods\211208GROG3B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

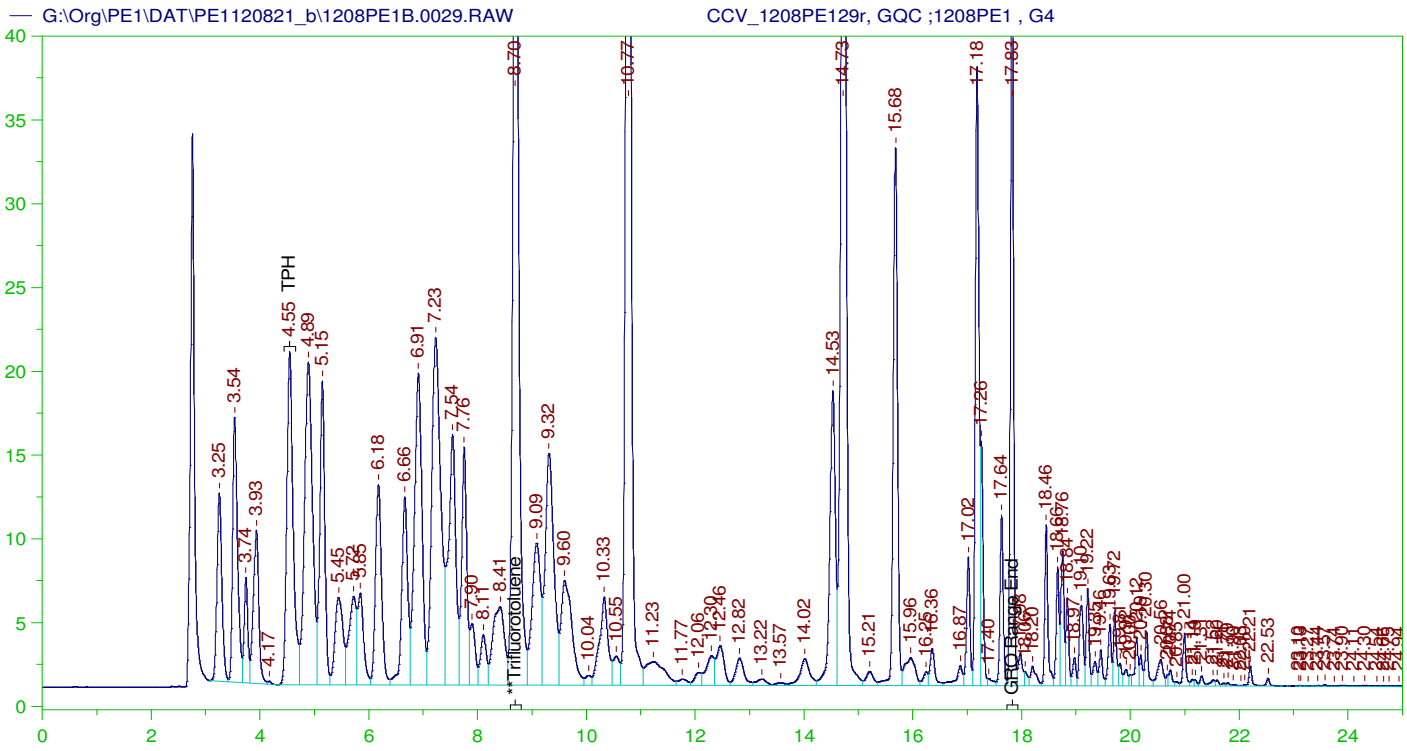
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.698	125.	117.121	93.7	-

GRO Area:801082.1 GRO Amount: 846.8386
TPH Area:917985.1 TPH Amount: 1009.45

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0028.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	846.84	100.81	85-115
TPH	1000.	1009.45	100.95	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.698	125.	117.121	93.7	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208PE129r, GQC ;1208PE1 , G4
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0029.RAW
Date & Time Acquired: 12/9/2021 2:44:28 AM
Method File: G:\Org\PE1\Methods\211208GROG4B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

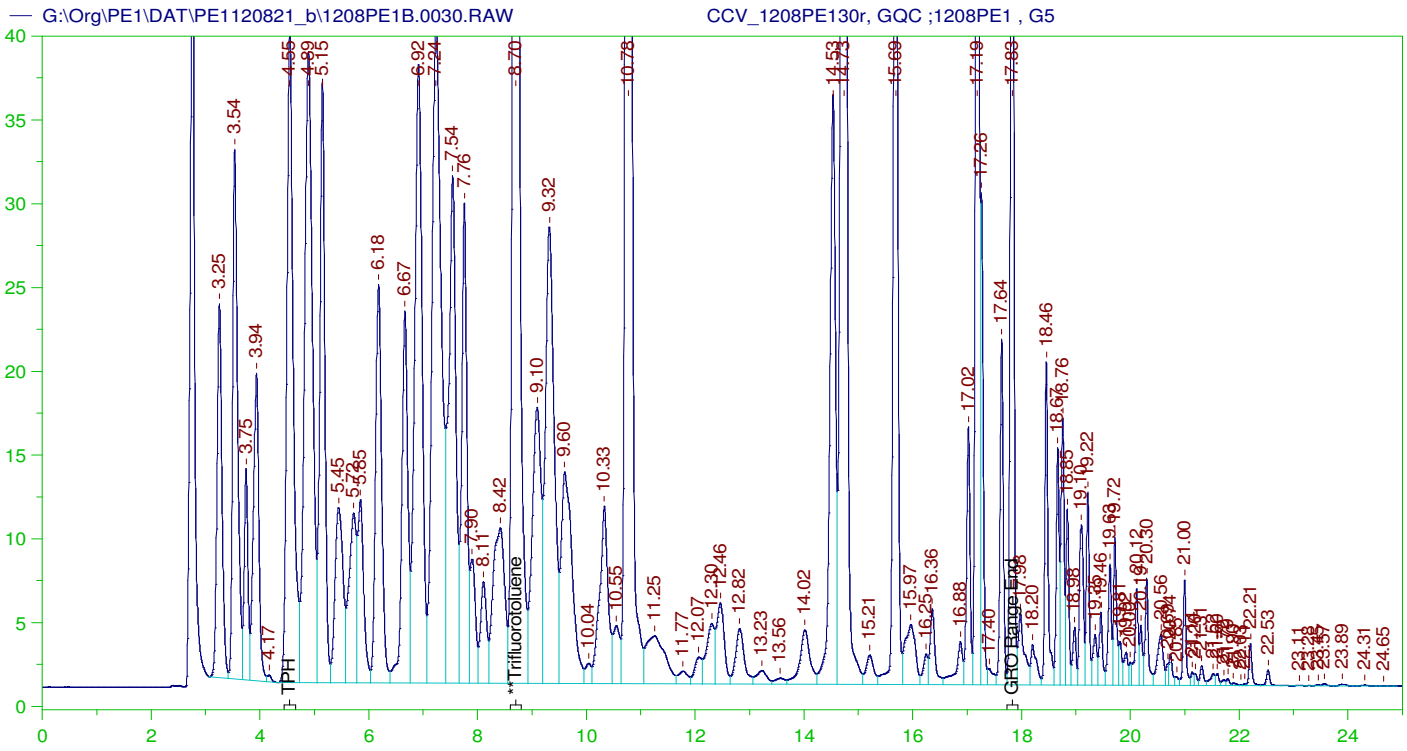
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.698	125.	466.523	373.22	-

GRO Area:4016408 GRO Amount: 4245.819
TPH Area:4628599 TPH Amount: 5089.775

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0029.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	4245.82	505.45	85-115
TPH	1000.	5089.78	508.98	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.698	125.	466.523	373.22	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208PE130r, GQC ;1208PE1 , G5
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0030.RAW
Date & Time Acquired: 12/9/2021 3:19:32 AM
Method File: G:\Org\PE1\Methods\211208GROG5B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

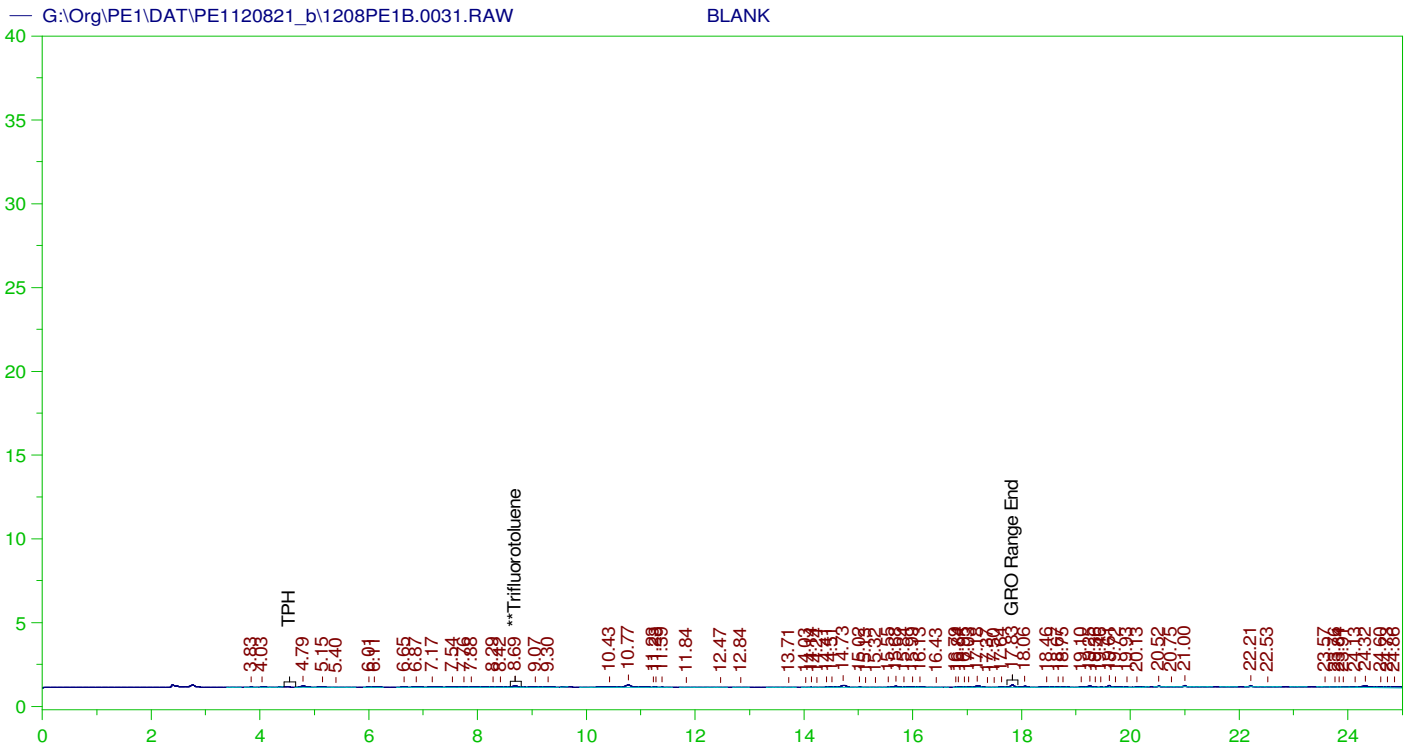
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.7	125.	950.451	760.36	-

GRO Area:8061411 GRO Amount: 8521.866
TPH Area:9296078 TPH Amount: 10222.31

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0030.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	8521.87	1014.51	85-115
TPH	1000.	10222.31	1022.23	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.7	125.	950.451	760.36	85-115



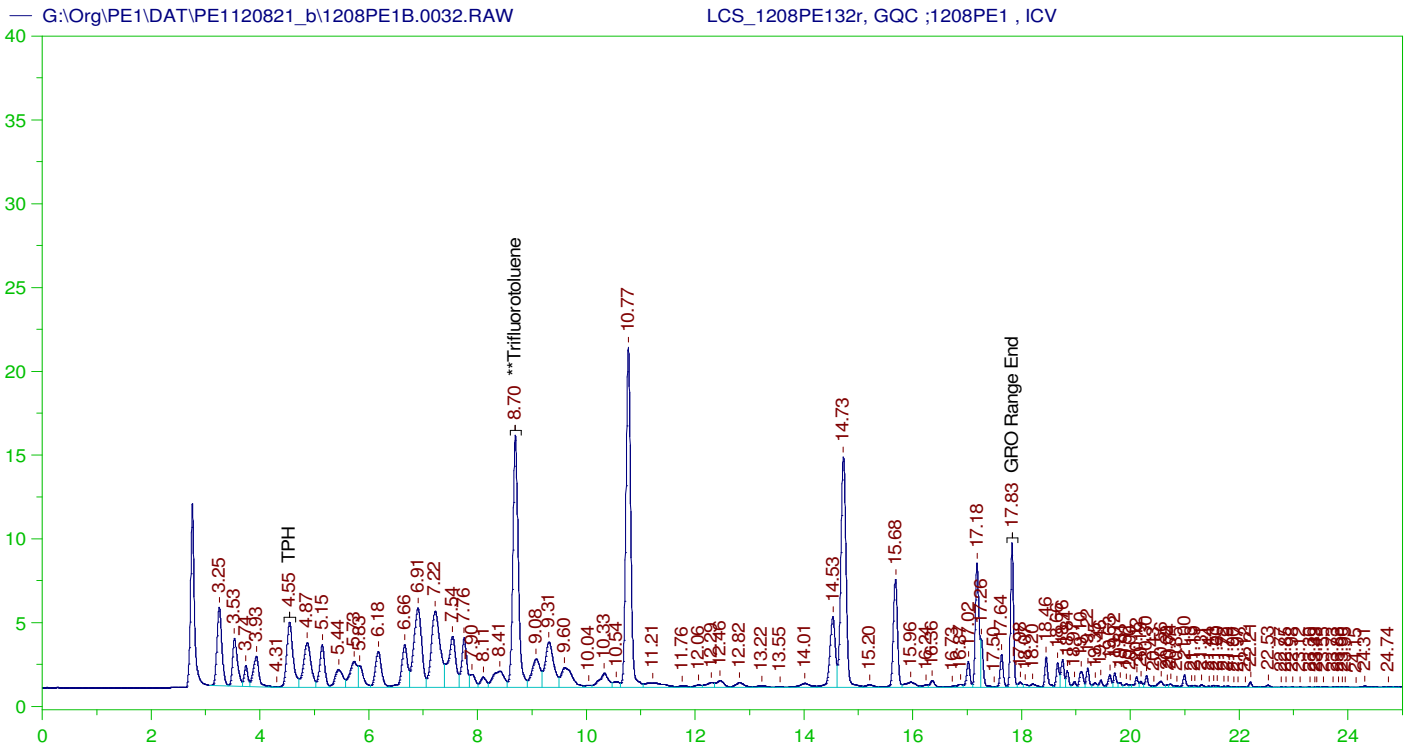
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0031.RAW
Date & Time Acquired: 12/9/2021 3:54:35 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.691	125.	.572	.46	-

GRO Area:11585.88 GRO Amount: 12.24764
TPH Area:18600.47 TPH Amount: 20.45375



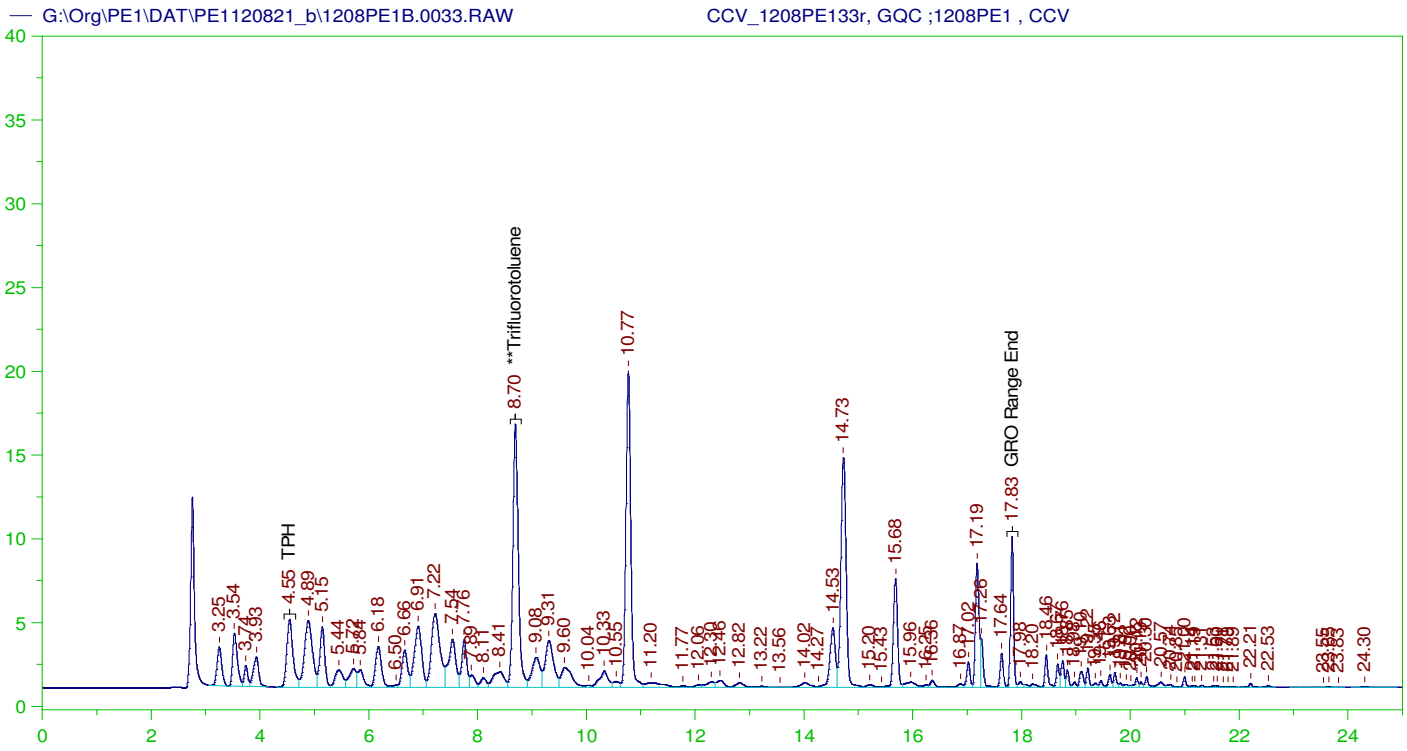
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_1208PE132r, GQC ;1208PE1 , ICV
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0032.RAW
Date & Time Acquired: 12/9/2021 4:29:41 AM
Method File: G:\Org\PE1\Methods\211208GROICVB%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.696	25.	22.1	88.4	-

GRO Area:806507.1 GRO Amount: 170.5147
TPH Area:947271.2 TPH Amount: 208.3308



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208PE133r, GQC ;1208PE1 , CCV
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0033.RAW
Date & Time Acquired: 12/9/2021 5:04:40 AM
Method File: G:\Org\PE1\Methods\211208GROCCVB%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

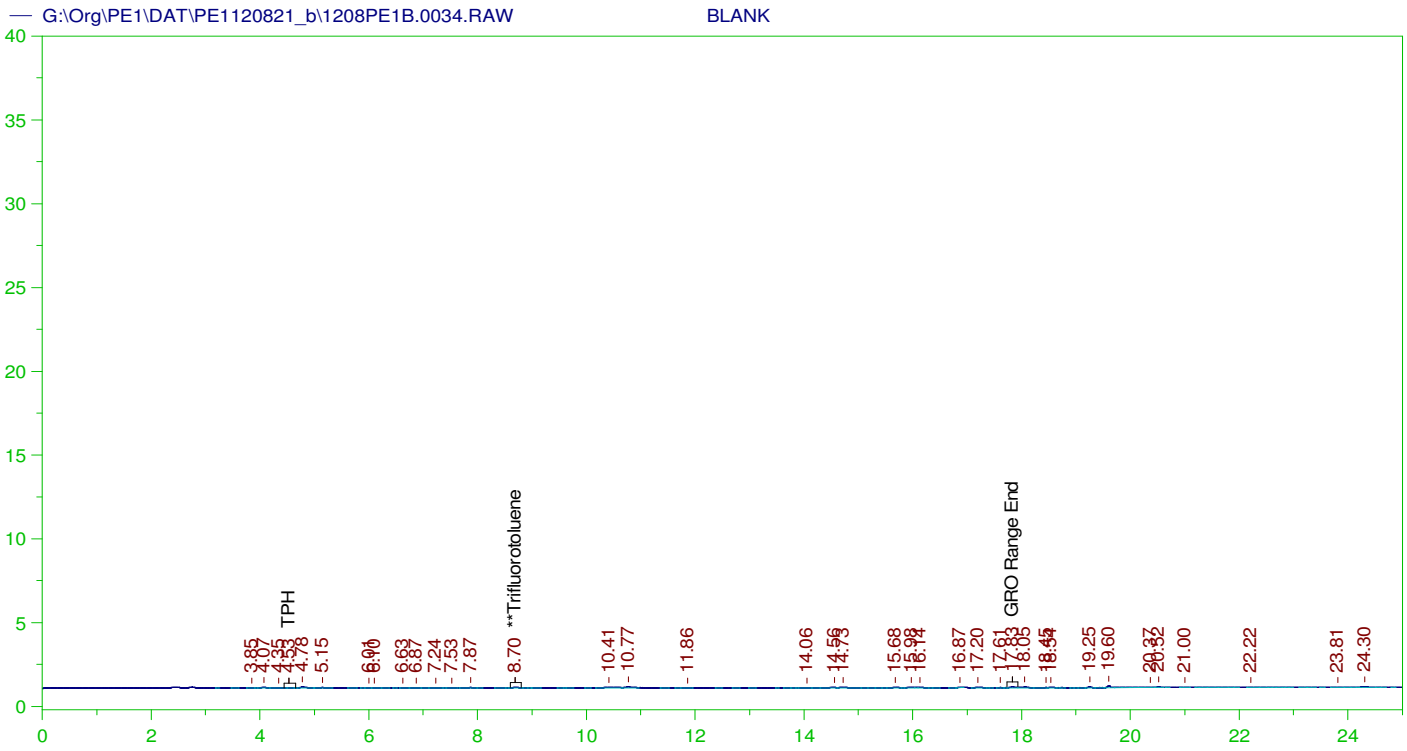
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.697	125.	116.009	92.81	-

GRO Area:800406.4 GRO Amount: 846.1245
TPH Area:918577.3 TPH Amount: 1010.101

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0033.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	846.12	100.73	85-115
TPH	1000.	1010.1	101.01	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.697	125.	116.009	92.81	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0034.RAW
Date & Time Acquired: 12/9/2021 5:39:46 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.696	125.	.2	.16	-

GRO Area:5202.292 GRO Amount: 5.499439
TPH Area:8381.664 TPH Amount: 9.216784

Write Sequence Data File	Insert Entries(Have the first cell for entries selecte Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\PE1\DAT\PE1120821_b\1208PE1.22r	CCV_1208PE122r, GQC ;1208PE1 , 8015 Marker	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.23r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.24r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.25r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.26r	CCV_1208PE126r, GQC ;1208PE1 , G1	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120821_b\1208PE1.27r	CCV_1208PE127r, GQC ;1208PE1 , G2	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120821_b\1208PE1.28r	CCV_1208PE128r, GQC ;1208PE1 , G3	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120821_b\1208PE1.29r	CCV_1208PE129r, GQC ;1208PE1 , G4	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120821_b\1208PE1.30r	CCV_1208PE130r, GQC ;1208PE1 , G5	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.31r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.32r	LCS_1208PE132r, GQC ;1208PE1 , ICV	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120821_b\1208PE1.33r	CCV_1208PE133r, GQC ;1208PE1 , CCV	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1120821_b\1208PE1.34r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None

Chemist

Digitally signed by
Josie Pickard
Date: 2022.01.14 14:30:01 -07:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

14-Jan-22

Run ID PE 1_211217A

Run Start Date: 12/17/2021
Analyst: Josie Pickard
Ical: 0
Column ID: Rtx-502.2
Comments: Manually added numbers that are above the MDL and below the LOD per QA and client request

Instrument ID	Description
VOC1-14	2-Place Balance

Std ID	Std Name	Std Amount	Std Units	Samp Amount	Samp Units	SampType	Expiration Date
GAS210122	Unleaded Gasoline Comp. Std.(2.0uL)	2	ul			CCV	6/7/2023
GQC201214	Gasoline Composite Mix (1.68uL)	1.68	ul			LCS, MS/M	4/2/2030
GROS200921	Gro Stock Standard Mt.Gro	0.84	ul			Marker	3/28/2029
SHP0292	VOA 1:1 HCl:H2O Solution	3	drops			CCV, LCS,	12/15/2025
TFT211214	TFT (1.05uL)	1.05	ul			SURR	9/10/2029

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935075	CCV_1217PE10	HC-8015-GRO-	SAMP		12/17/2021 8:48:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	237.2264	237.2264		0	0	0	2.32	20	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	237.2264	237.2264		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	248.1193	248.1193		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.11053	20.11053		25	0	0	0.0743	1	0	80%	70	130	0%	
GRO as Gasoline	X	ug/L	237.2264	237.2264		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935076	CCV_1217PE10	HC-8015-GRO-	CCV		12/17/2021 9:22:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	169.2626	169.2626		168	0	0	2.32	20	0	101%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	169.2626	169.2626		168	0	0	2.32	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.9897	202.9897		200	0	0	3.56	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	23.52052	23.52052		25	0	0	0.0743	1	0	94%	80	120	0%	
GRO as Gasoline	X	ug/L	169.2626	169.2626		0	0	0	2.32	20	0	0%	0	0	0%	

1

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935076	CCV_1217PE10	HC-8015-GRO-	CCV		12/17/2021 9:22:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935077	LCS_1217PE10	HC-8015-GRO-	LCS		12/17/2021 9:56:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	174.6655	174.6655		170	0	0	2.32	20	0	103%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	174.6655	174.6655		170	0	0	2.32	20	0	103%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	210.7439	210.7439		200	0	0	3.56	20	0	105%	70	130	0%	
Trifluorotoluene	S	ug/L	22.82058	22.82058		25	0	0	0.0743	1	0	91%	70	130	0%	
GRO as Gasoline	X	ug/L	174.6655	174.6655		170	0	0	2.32	20	0	103%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935078	MBLK_1217PE	HC-8015-GRO-	MBLK		12/17/2021 10:3	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	2.32	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.62352	20.62352		25	0	0	0.0743	1	0	82%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	10	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935079	B21121402-001	HC-8015-GRO-	SAMP		12/17/2021 11:0	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.92663	19.92663		25	0	0	0.0743	1	0	80%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935080	B21121402-002	HC-8015-GRO-	SAMP		12/17/2021 12:1	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935080	B21121402-002	HC-8015-GRO-	SAMP		12/17/2021 12:1	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.82339	19.82339		25	0	0	0.0743	1	0	79%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935081	B21121402-003	HC-8015-GRO-	SAMP		12/17/2021 3:04:	5	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	27.73955	138.69775		0	0	0	11.6	100	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	11.6	100	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	910.7868	4553.934		0	0	0	17.8	100	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.45167	97.25835		125	0	0	0.3715	5	0	78%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	11.6	100	0	0%	0	0	0%	U

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935082	B21121402-006	HC-8015-GRO-	SAMP		12/17/2021 4:13:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.91517	19.91517		25	0	0	0.0743	1	0	80%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935083	B21121402-002	HC-8015-GRO-	MS		12/17/2021 5:22:	1	R372029		1E+07	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	181.3972	181.3972		170	0	0	2.32	20	0	107%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	181.3972	181.3972		170	0	0	2.32	20	0	107%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	227.129	227.129		200	0	0	3.56	20	0	114%	70	130	0%	
Trifluorotoluene	S	ug/L	22.86884	22.86884		25	0	0	0.0743	1	0	91%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935083	B21121402-002	HC-8015-GRO-	MS		12/17/2021 5:22:	1	R372029		1E+07	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
GRO as Gasoline	X	ug/L	181.3972	181.3972		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935084	B21121402-002	HC-8015-GRO-	MSD		12/17/2021 5:56:	1	R372029		1E+07	1E+07	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	179.4749	179.4749		170	0	181.3972	2.32	20	0	106%	78	122	1%	
Gasoline Range Organics (GRO)	A	ug/L	179.4749	179.4749		170	0	181.3972	2.32	20	0	106%	70	130	1%	
Total Purgeable Hydrocarbons	A	ug/L	219.86	219.86		200	0	227.129	3.56	20	0	110%	70	130	3%	
Trifluorotoluene	S	ug/L	23.23499	23.23499		25	0	0	0.0743	1	0	93%	70	130	0%	
GRO as Gasoline	X	ug/L	179.4749	179.4749		0	0	181.3972	2.32	20	0	0%	0	0	1%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935085	CCV_1217PE12	HC-8015-GRO-	SAMP		12/17/2021 6:30:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	258.5399	258.5399		0	0	0	2.32	20	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	258.5399	258.5399		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	277.1394	277.1394		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.70461	20.70461		25	0	0	0.0743	1	0	83%	70	130	0%	
GRO as Gasoline	X	ug/L	258.5399	258.5399		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935086	CCV_1217PE12	HC-8015-GRO-	CCV		12/17/2021 7:05:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	184.6869	184.6869		168	0	0	2.32	20	0	110%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	184.6869	184.6869		168	0	0	2.32	20	0	110%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	220.0081	220.0081		200	0	0	3.56	20	0	110%	80	120	0%	
Trifluorotoluene	S	ug/L	23.79256	23.79256		25	0	0	0.0743	1	0	95%	80	120	0%	
GRO as Gasoline	X	ug/L	184.6869	184.6869		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935087	CCV_1217PE12	HC-8015-GRO-	SAMP		12/18/2021 10:1	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	230.2373	230.2373		0	0	0	2.32	20	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	230.2373	230.2373		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	240.1628	240.1628		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.60726	19.60726		25	0	0	0.0743	1	0	78%	70	130	0%	
GRO as Gasoline	X	ug/L	230.2373	230.2373		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935088	CCV_1217PE12	HC-8015-GRO-	CCV		12/18/2021 10:5	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	168.1832	168.1832		168	0	0	2.32	20	0	100%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	168.1832	168.1832		168	0	0	2.32	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	200.6243	200.6243		200	0	0	3.56	20	0	100%	80	120	0%	
Trifluorotoluene	S	ug/L	23.21519	23.21519		25	0	0	0.0743	1	0	93%	80	120	0%	
GRO as Gasoline	X	ug/L	168.1832	168.1832		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935089	LCS_1217PE12	HC-8015-GRO-	LCS		12/18/2021 11:2	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	168.252	168.252		170	0	0	2.32	20	0	99%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	168.252	168.252		170	0	0	2.32	20	0	99%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.8252	202.8252		200	0	0	3.56	20	0	101%	70	130	0%	
Trifluorotoluene	S	ug/L	22.69854	22.69854		25	0	0	0.0743	1	0	91%	70	130	0%	
GRO as Gasoline	X	ug/L	168.252	168.252		170	0	0	2.32	20	0	99%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935090	MBLK_1217PE	HC-8015-GRO-	MBLK		12/18/2021 12:0	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.32	10	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	2.32	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.42344	20.42344		25	0	0	0.0743	1	0	82%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935090	MBLK_1217PE	HC-8015-GRO-	MBLK		12/18/2021 12:0	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	10	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935091	B21121402-012	HC-8015-GRO-	SAMP		12/18/2021 1:08:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Gasoline Range Organics (GRO)	A	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.54996	19.54996		25	0	0	0.0743	1	0	78%	70	130	0%	
GRO as Gasoline	X	ug/L	0	0		0	0	0	2.32	20	0	0%	0	0	0%	U

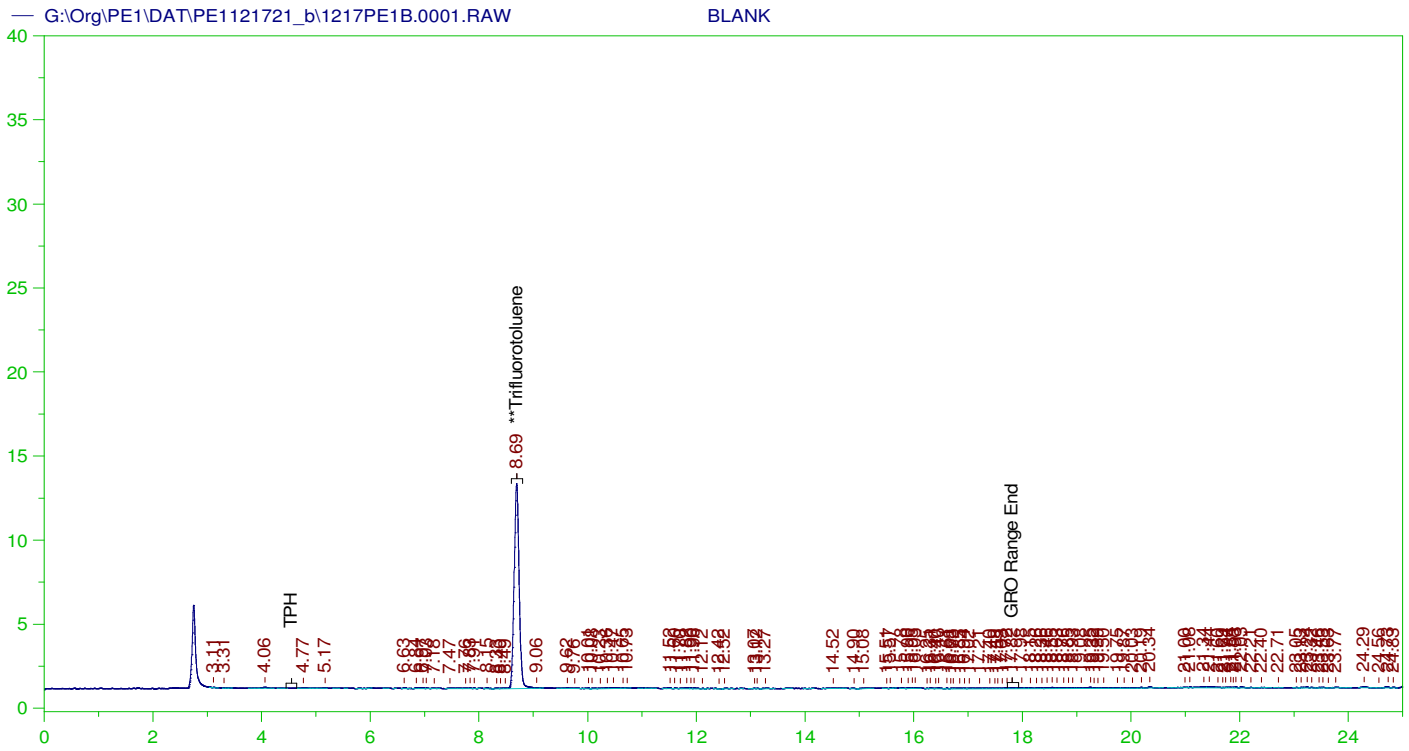
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935092	CCV_1217PE13	HC-8015-GRO-	SAMP		12/18/2021 2:17:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	231.4353	231.4353		0	0	0	2.32	20	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	231.4353	231.4353		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	241.3057	241.3057		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	20.13852	20.13852		25	0	0	0.0743	1	0	81%	70	130	0%	
GRO as Gasoline	X	ug/L	231.4353	231.4353		0	0	0	2.32	20	0	0%	0	0	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14935093	CCV_1217PE13	HC-8015-GRO-	CCV		12/18/2021 2:51:	1	R372029		0	0	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	171.0477	171.0477		168	0	0	2.32	20	0	102%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	171.0477	171.0477		168	0	0	2.32	20	0	102%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	204.0888	204.0888		200	0	0	3.56	20	0	102%	80	120	0%	
Trifluorotoluene	S	ug/L	23.58021	23.58021		25	0	0	0.0743	1	0	94%	80	120	0%	
GRO as Gasoline	X	ug/L	171.0477	171.0477		0	0	0	2.32	20	0	0%	0	0	0%	

Write Sequence Data File	Insert Entries(Have the first cell for entries selecte Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\PE1\DAT\PE1121721_b\1217PE1.01r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.02r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.03r	CCV_1217PE103r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.04r	CCV_1217PE104r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.05r	LCS_1217PE105r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.06r	MBLK_1217PE106r, QC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.07r	B21121402-001E ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.08r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.09r	B21121402-002E ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.10r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.11r	B21121402-003E ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.12r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.13r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.14r	B21121402-003E ;1217PE1 , $HC-8015-GRO-W,,(1,5)	G:\Org\PE1\Methods\21120	5	5	1	5	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.15r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.16r	B21121402-006A ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.17r	*B21121402-012A ;1217PE1 , $HC-8015-GRO-W,*	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.18r	B21121402-002EMS, GQC ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.19r	B21121402-002EMSD, GQC ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.20r	CCV_1217PE120r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.21r	CCV_1217PE121r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.22r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.23r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.24r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.25r	CCV_1217PE125r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.26r	CCV_1217PE126r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.27r	LCS_1217PE127r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.28r	MBLK_1217PE128r, QC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.29r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.30r	B21121402-012A ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.31r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.32r	CCV_1217PE132r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.33r	CCV_1217PE133r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1121721_b\1217PE1.34r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0



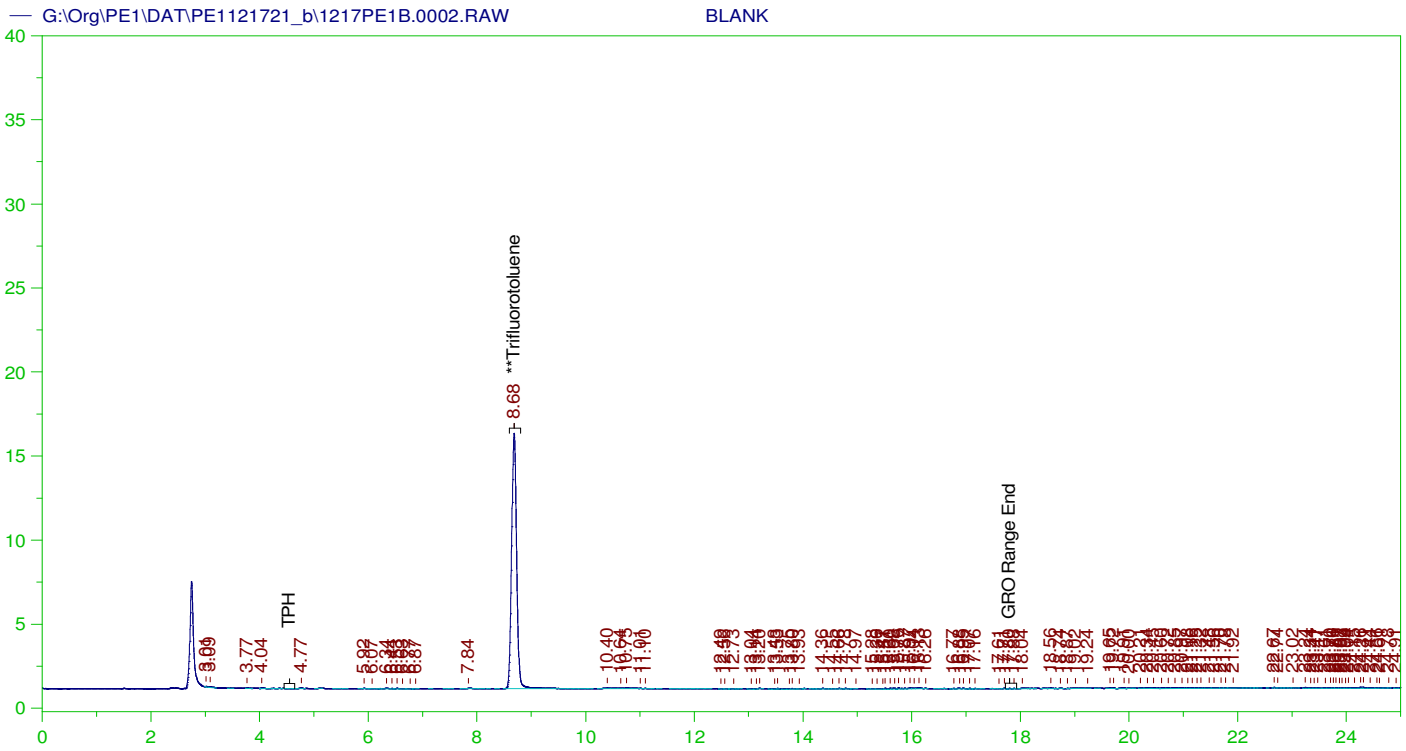
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0001.RAW
Date & Time Acquired: 12/17/2021 7:40:05 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.693	125.	82.582	66.07	-

GRO Area:9597.063 GRO Amount: 10.14523
TPH Area:17943.92 TPH Amount: 19.73178



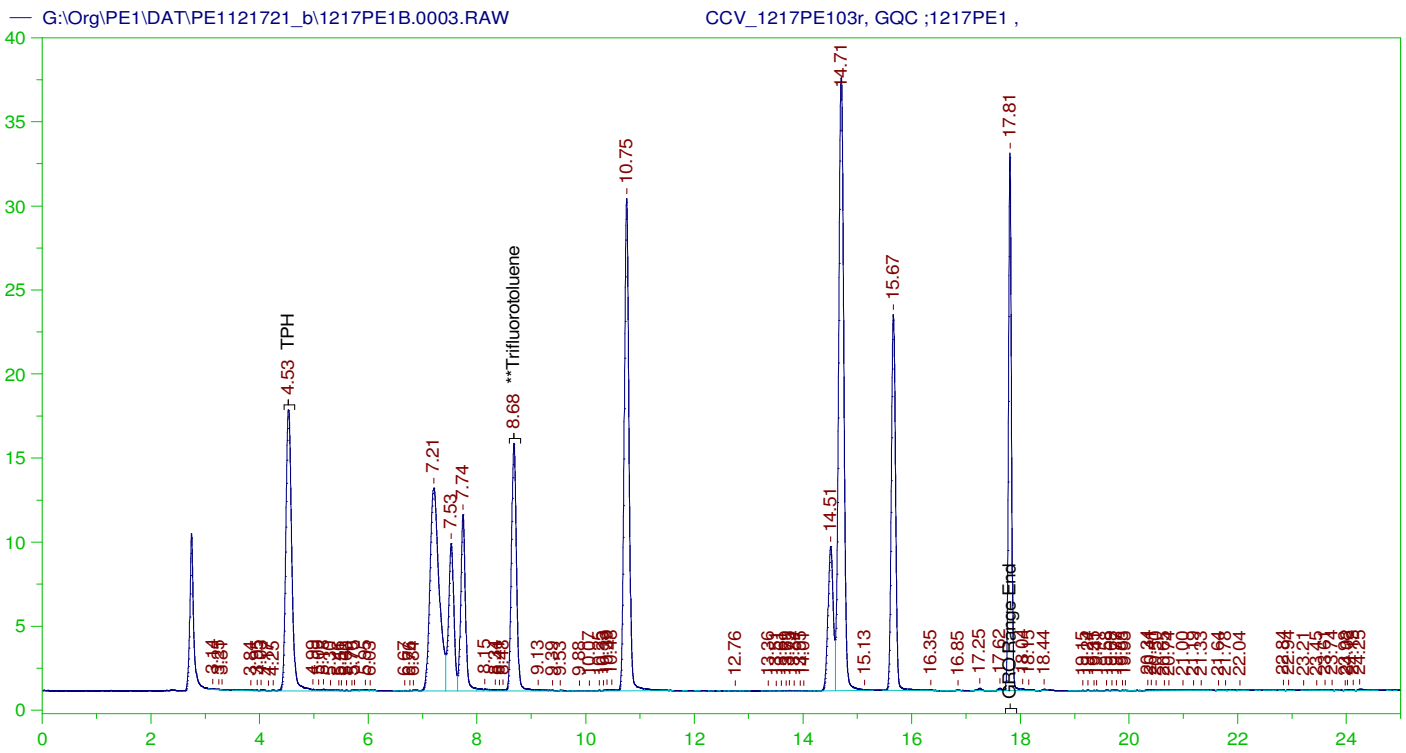
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0002.RAW
Date & Time Acquired: 12/17/2021 8:14:14 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.684	125.	103.37	82.7	-

GRO Area:7300.143 GRO Amount: 7.717116
TPH Area:14418.44 TPH Amount: 15.85504



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_1217PE103r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0003.RAW
Date & Time Acquired: 12/17/2021 8:48:23 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.68	125.	100.553	80.44	-

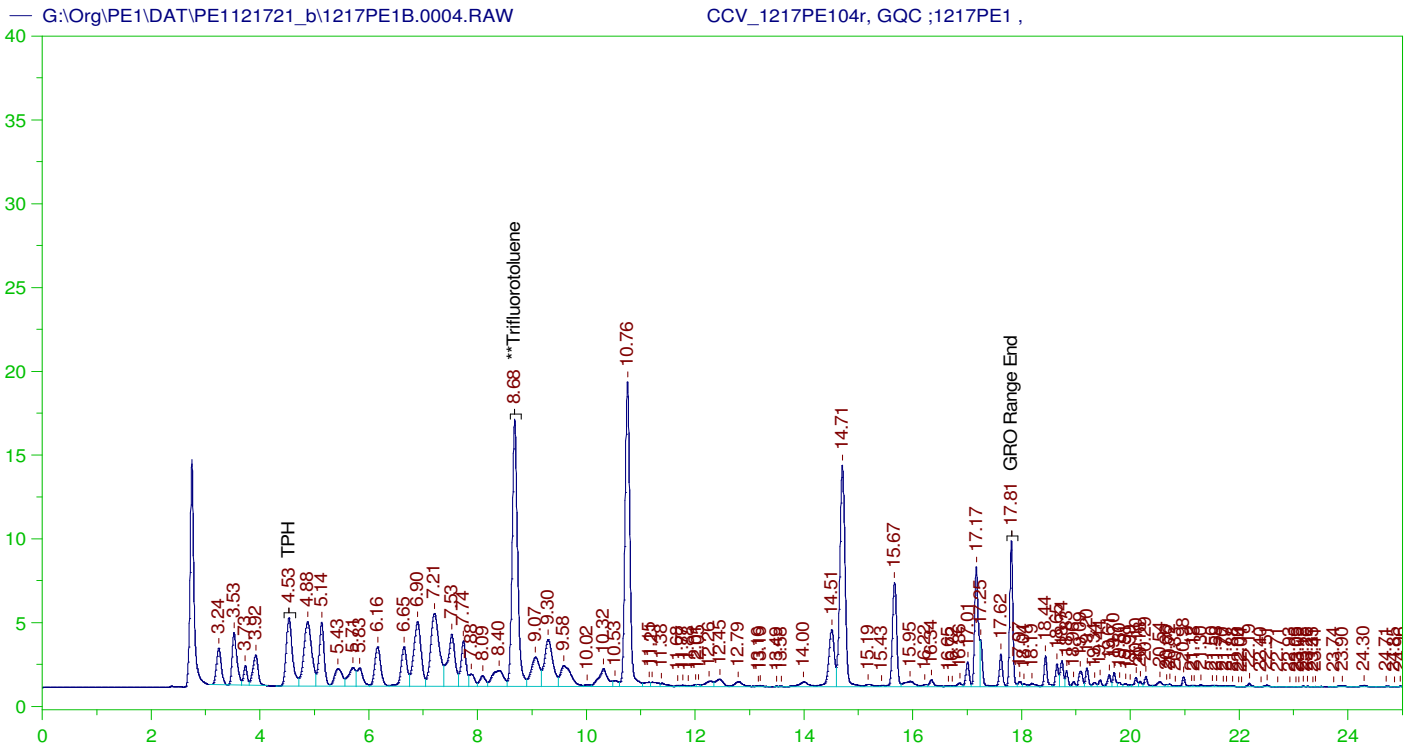
GRO Area:1122043 GRO Amount: 1186.132
TPH Area:1128188 TPH Amount: 1240.596

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0003.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	1186.13	141.21	85-115
TPH	1000.	1240.6	124.06	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.68	125.	100.553	80.44	85-115

G:\org\PE1\dat\PE1121721_b\Review\003_CCV_1217PE103r_211208GROB.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_1217PE104r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0004.RAW
Date & Time Acquired: 12/17/2021 9:22:34 AM
Method File: G:\Org\PE1\Methods\211208GCCV1217_04B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.683	125.	117.603	94.08	-

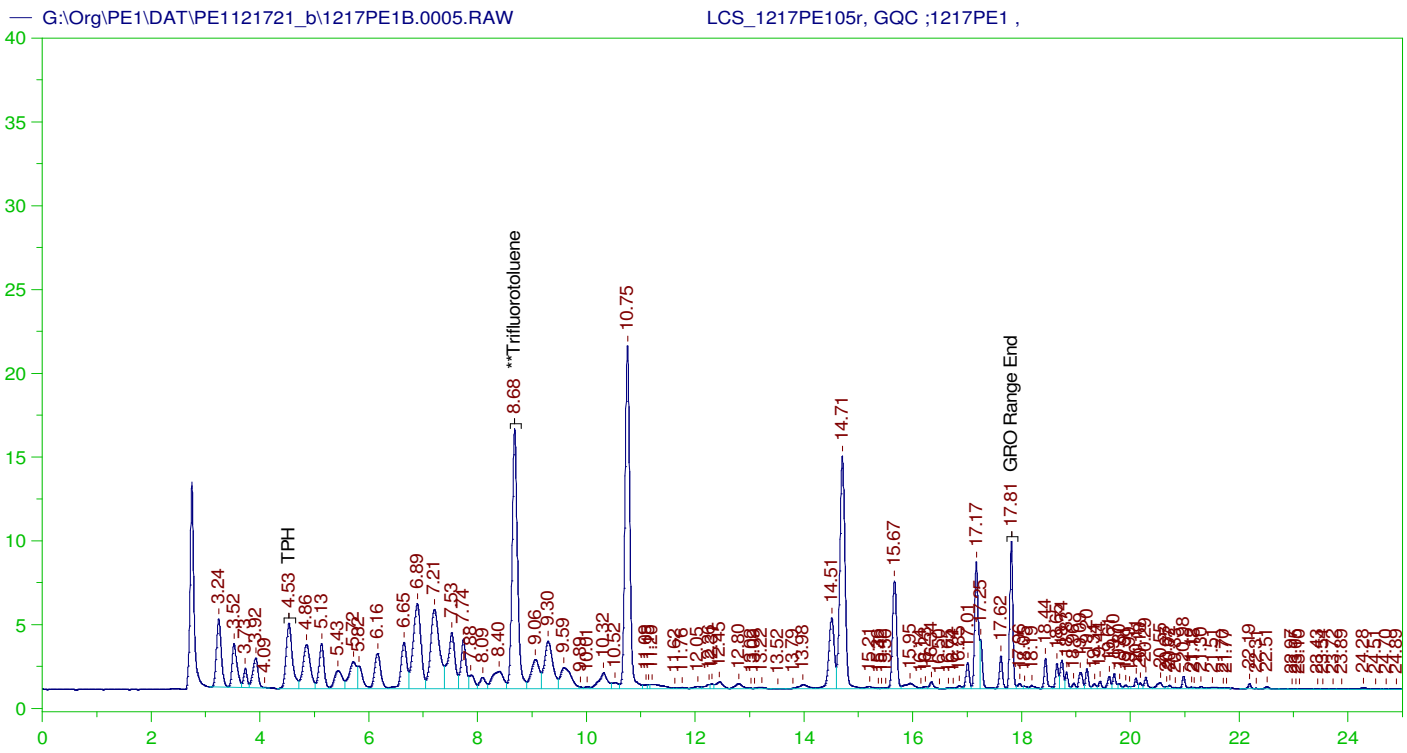
GRO Area:800585 GRO Amount: 846.3132
TPH Area:922985.4 TPH Amount: 1014.948

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0004.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	846.31	100.75	85-115
TPH	1000.	1014.95	101.49	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.683	125.	117.603	94.08	85-115

G:\org\PE1\dat\PE1121721_b\Review\004_CCV_1217PE104r_211208GCCV1217_04B%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_1217PE105r, GQC ;1217PE1 ,
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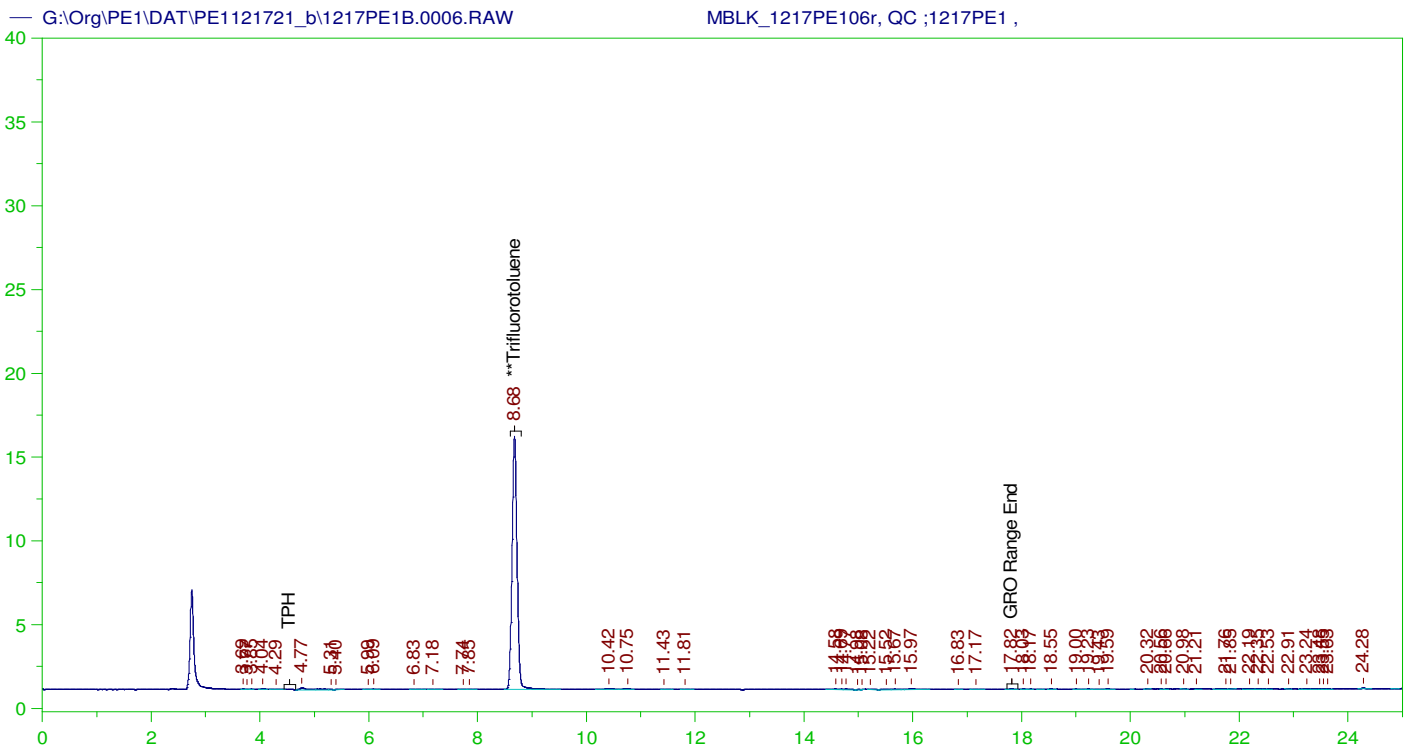
Date & Time Acquired: 12/17/2021 9:56:45 AM
Method File: G:\Org\PE1\Methods\211208GLCS1217_05B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.682	25.	22.821	91.28	-

GRO Area:826139.6 GRO Amount: 174.6655
TPH Area:958243.7 TPH Amount: 210.7439



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_1217PE106r, QC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0006.RAW
Date & Time Acquired: 12/17/2021 10:30:59 AM
Method File: G:\Org\PE1\Methods\211208GMB1217_06B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.68	25.	20.624	82.49	-

GRO Area:5481.282 GRO Amount: 1.158873
TPH Area:9060.308 TPH Amount: 1.992609

ERH2186 (RHMW06)

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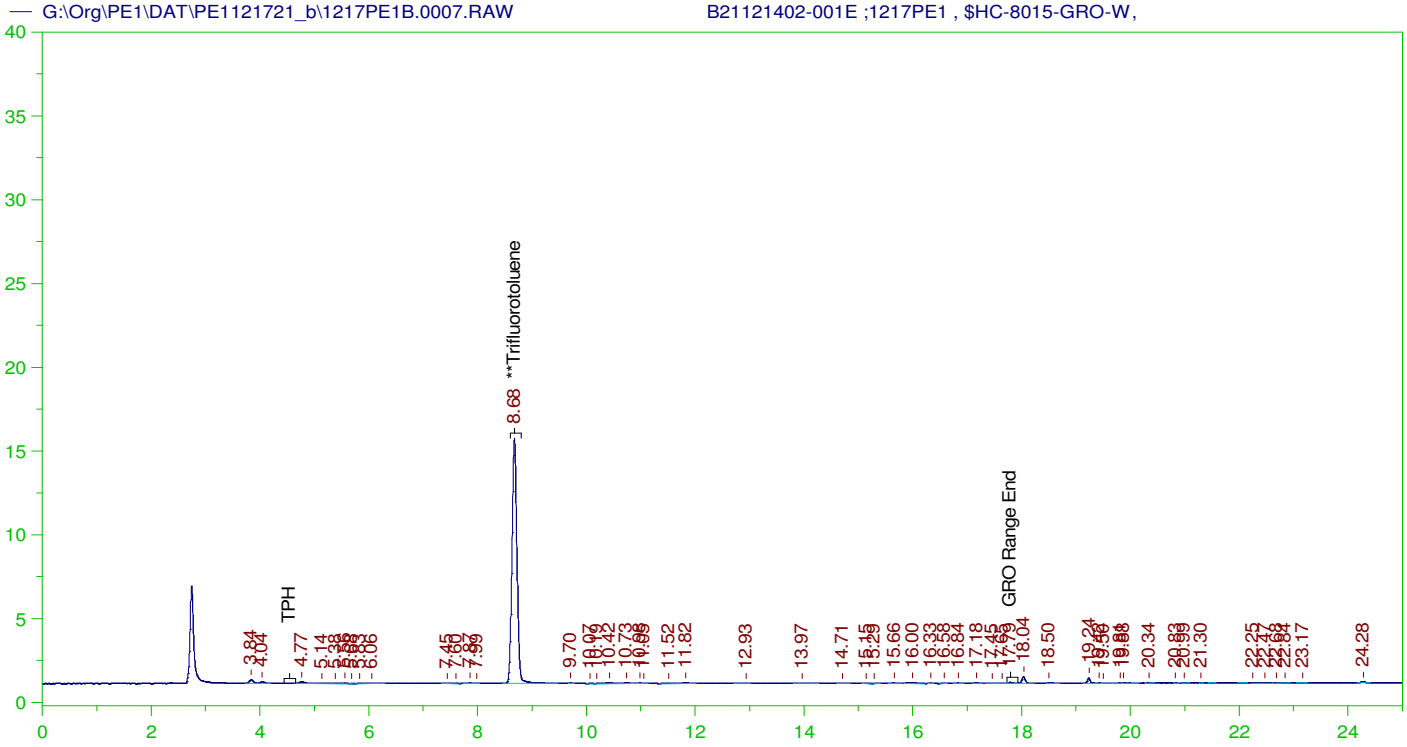


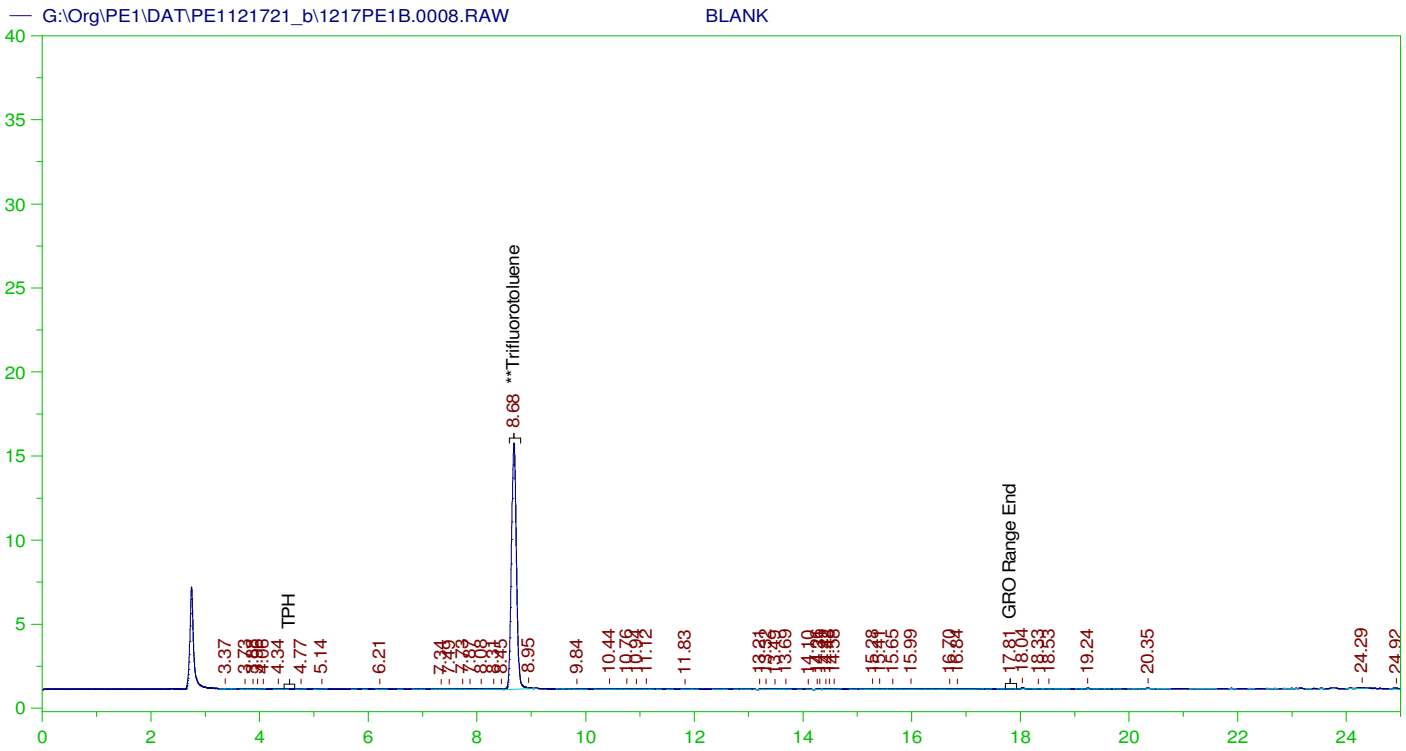
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-001E ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0007.RAW
Date & Time Acquired: 12/17/2021 11:05:14 AM
Method File: G:\Org\PE1\Methods\211208G1402-1B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.678	25.	19.927	79.71	-

GRO Area:7593.114 GRO Amount: 1.605364
TPH Area:14735.34 TPH Amount: 3.240703



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0008.RAW
Date & Time Acquired: 12/17/2021 11:39:32 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.681	125.	98.691	78.95	-

GRO Area:5560.917 GRO Amount: 5.878548
TPH Area:8266.952 TPH Amount: 9.090642

ERH2197 (OWDFMW01)

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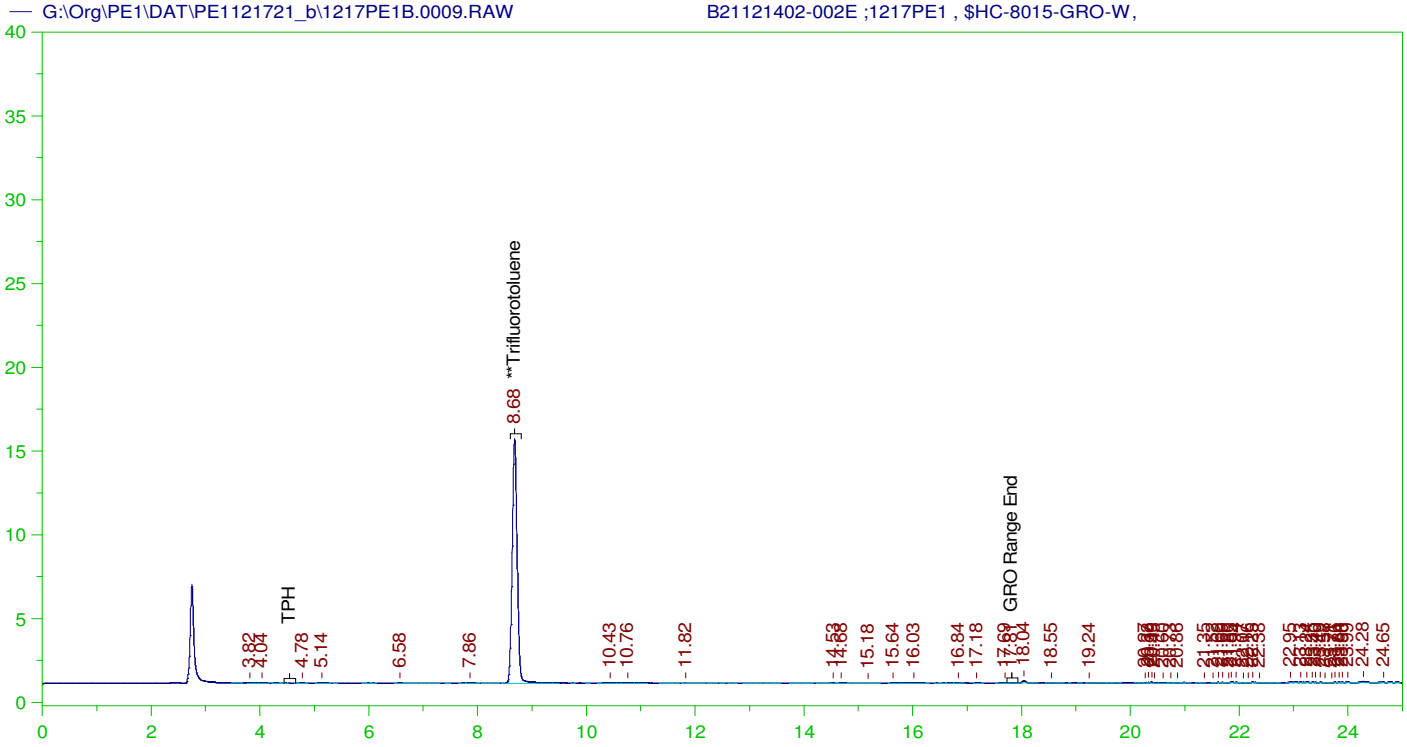


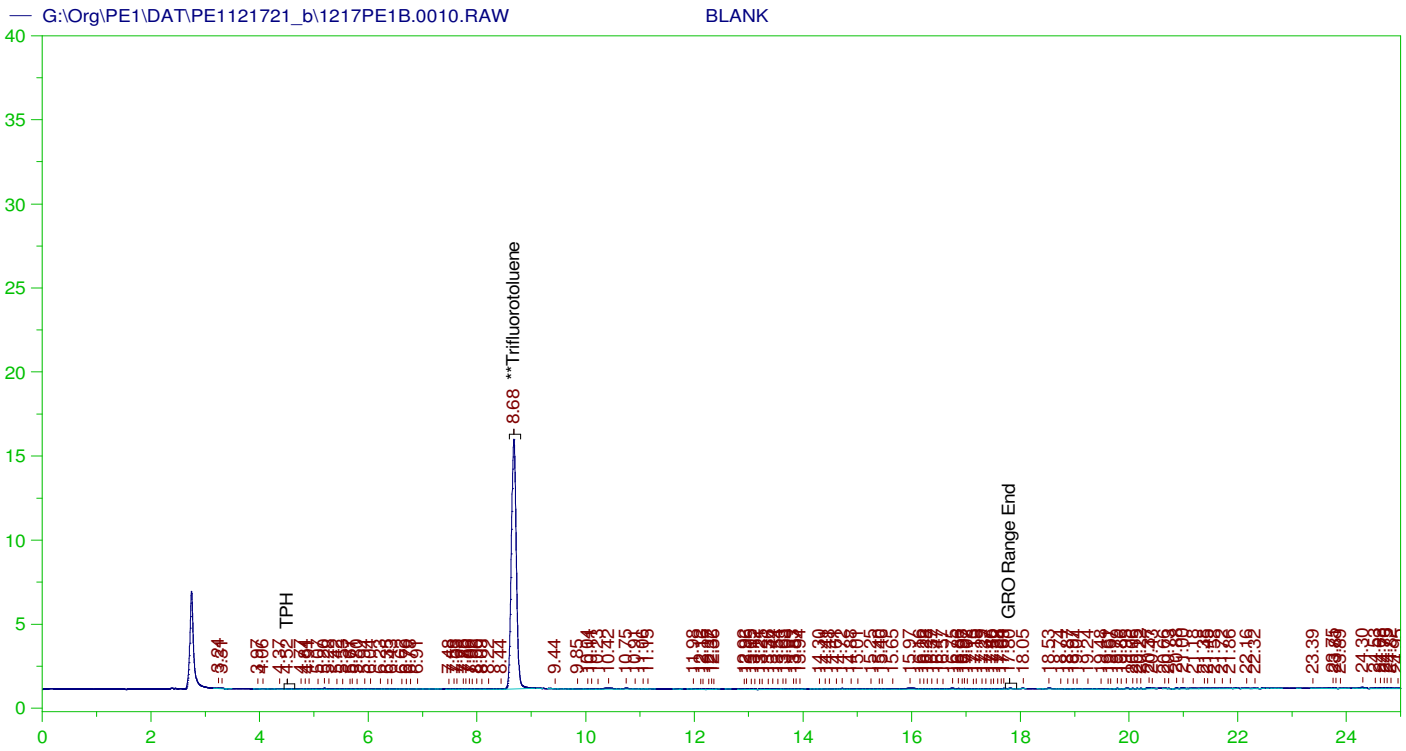
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-002E ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0009.RAW
Date & Time Acquired: 12/17/2021 12:13:52 PM
Method File: G:\Org\PE1\Methods\211208GROB%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.682	25.	19.823	79.29	-

GRO Area:3258.308 GRO Amount: 0.6888836
TPH Area:8339.294 TPH Amount: 1.834038



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
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Date & Time Acquired: 12/17/2021 12:48:13 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.679	125.	100.129	80.1	-

GRO Area:12975 GRO Amount: 13.71611
TPH Area:18889.77 TPH Amount: 20.77188

ERH2203 (RHMW14-03)

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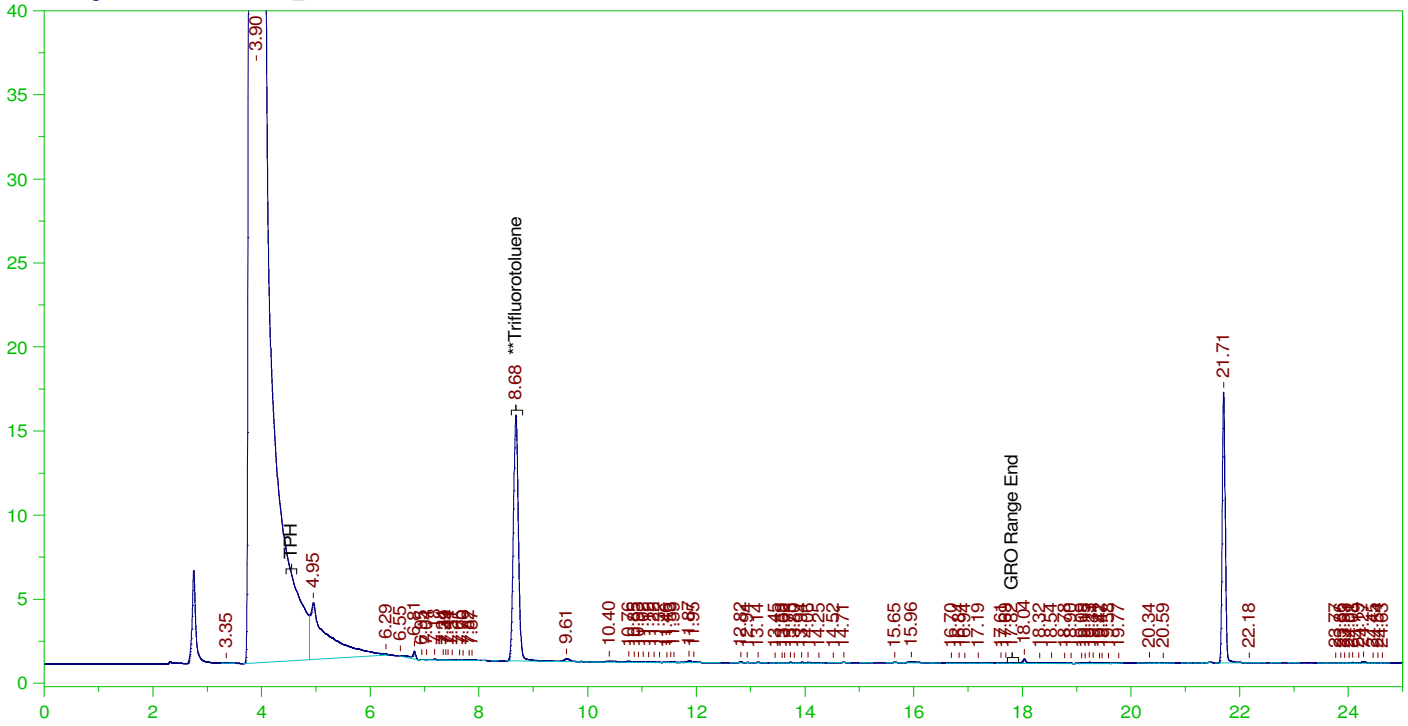


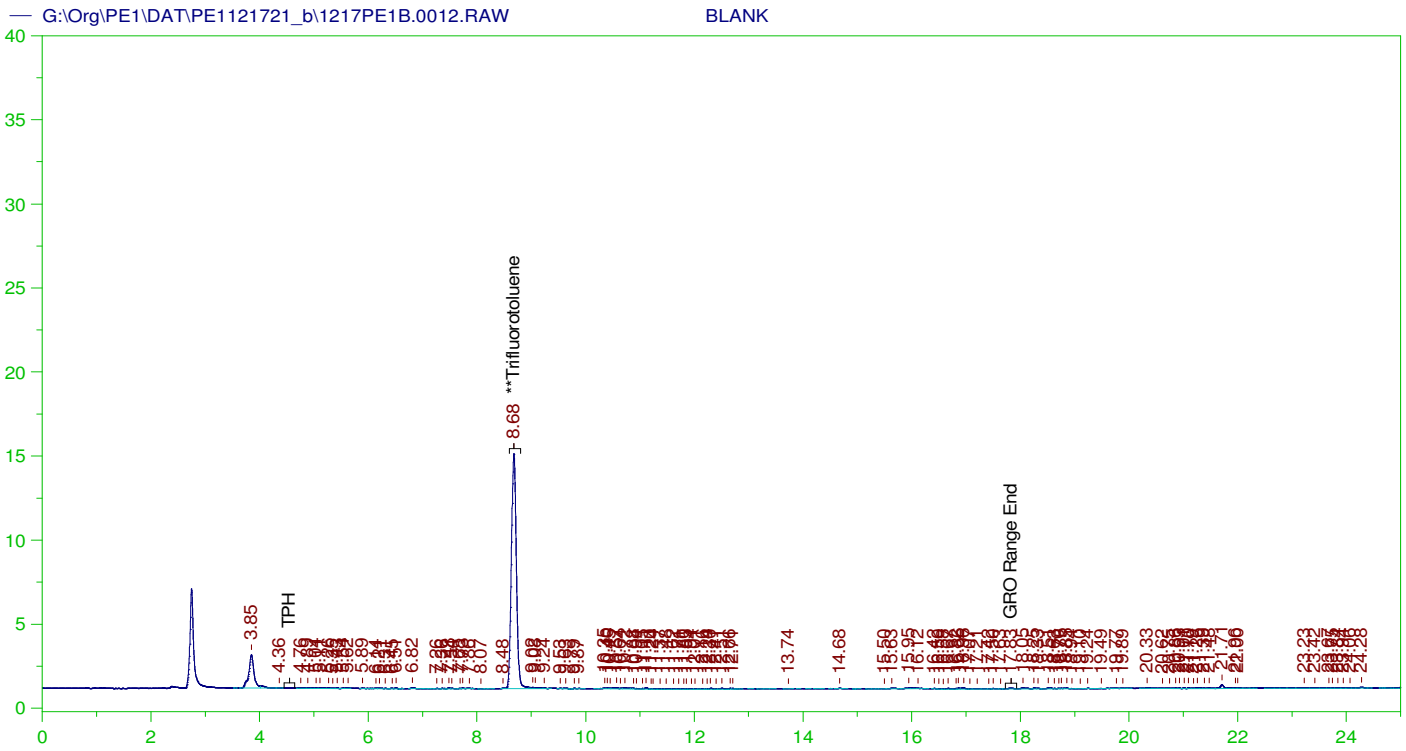
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-003E ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0011.RAW
Date & Time Acquired: 12/17/2021 1:22:22 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.68	25.	19.836	79.35	-

GRO Area:89562.26 GRO Amount: 18.93558
TPH Area:1.000876E+07 TPH Amount: 2201.198



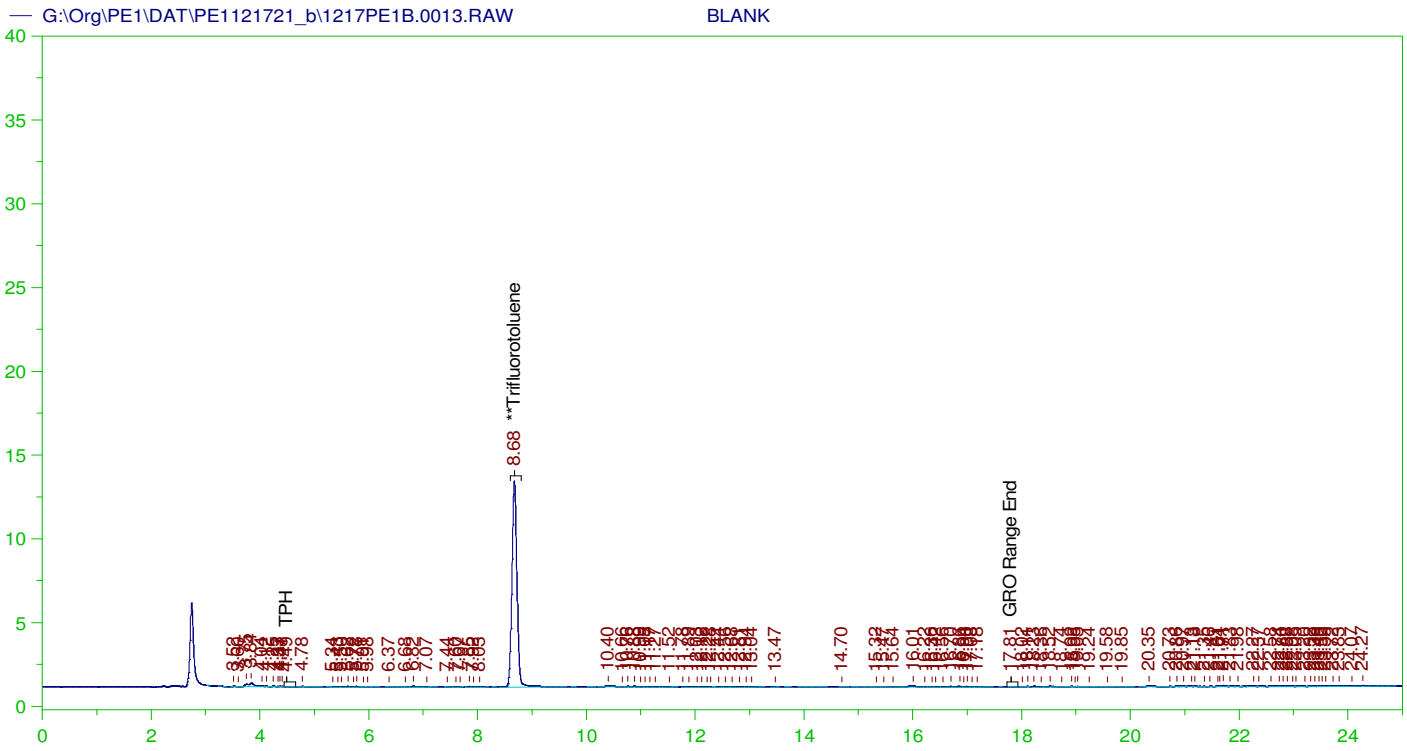
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0012.RAW
Date & Time Acquired: 12/17/2021 1:56:34 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.679	125.	94.327	75.46	-

GRO Area:11856.73 GRO Amount: 12.53397
TPH Area:30807.6 TPH Amount: 33.87716



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
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Date & Time Acquired: 12/17/2021 2:30:45 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

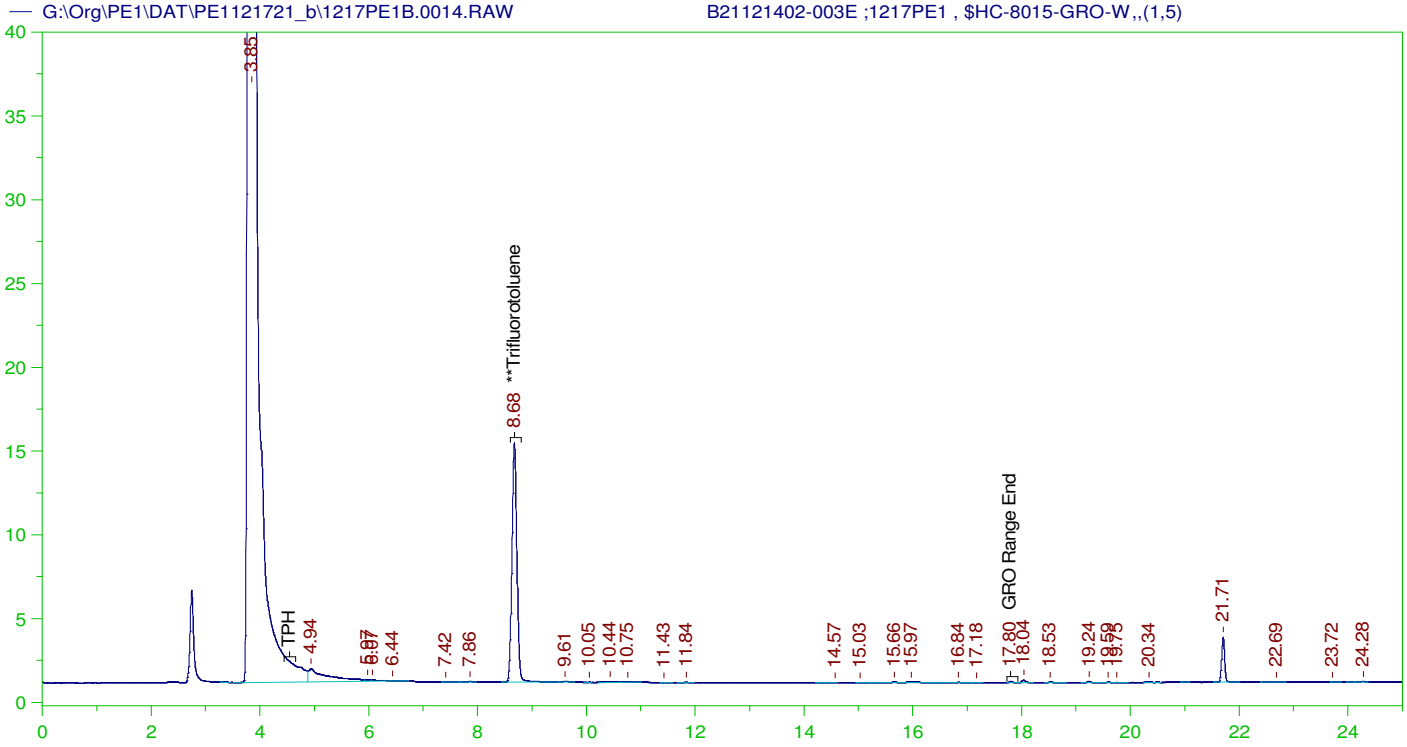
Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.678	125.	84.352	67.48	-

GRO Area:9208.093 GRO Amount: 9.734045
TPH Area:18197.79 TPH Amount: 20.01096

ERH2203 (RHMW14-03)

G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0014.RAW B21121402-003E ;1217PE1 , $HC-8015-GRO-W,,(1,5)



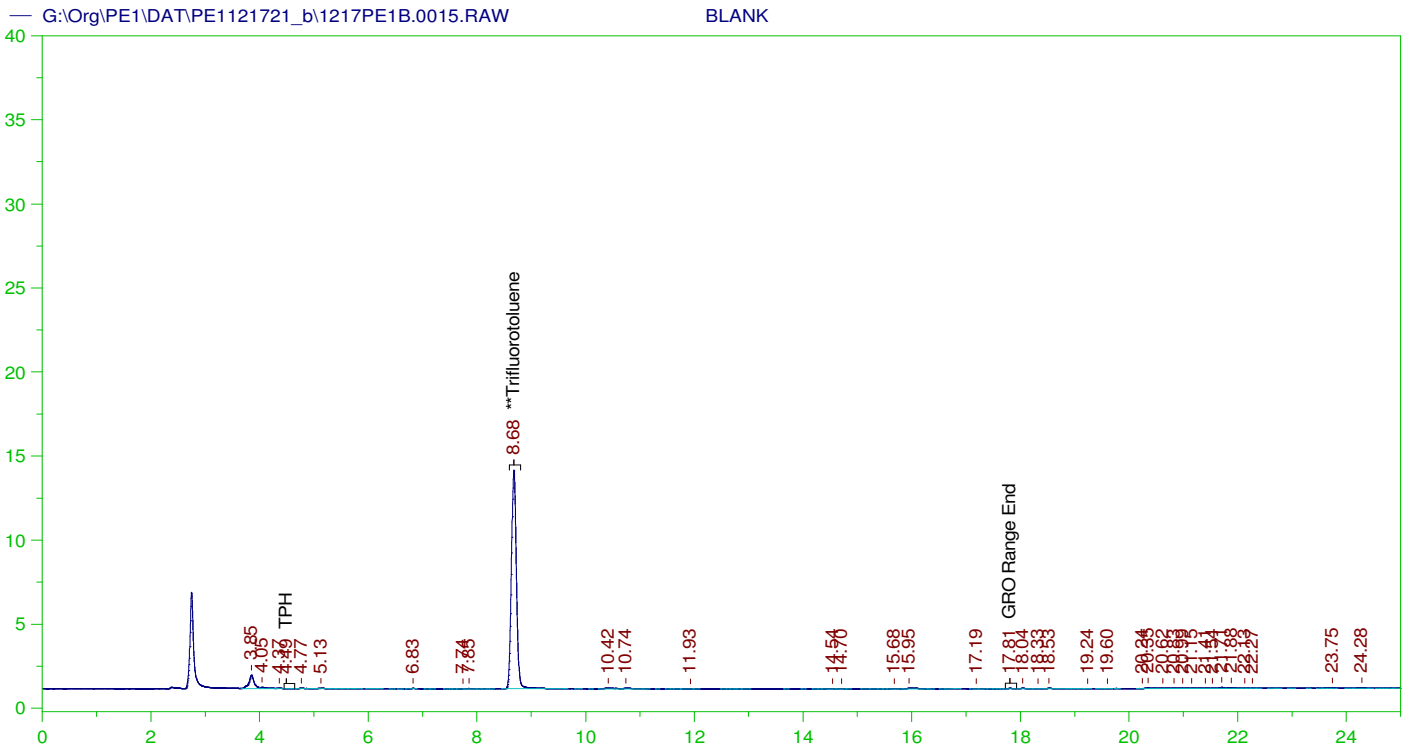
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-003E ;1217PE1 , $HC-8015-GRO-W,,(1,5)
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0014.RAW
Date & Time Acquired: 12/17/2021 3:04:59 PM
Method File: G:\Org\PE1\Methods\211208G1402-3B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 5 S.A.: 5

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.678	125.	97.258	77.81	-

GRO Area:26240.72 GRO Amount: 27.73955
TPH Area:4141309 TPH Amount: 4553.934



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0015.RAW
Date & Time Acquired: 12/17/2021 3:39:15 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

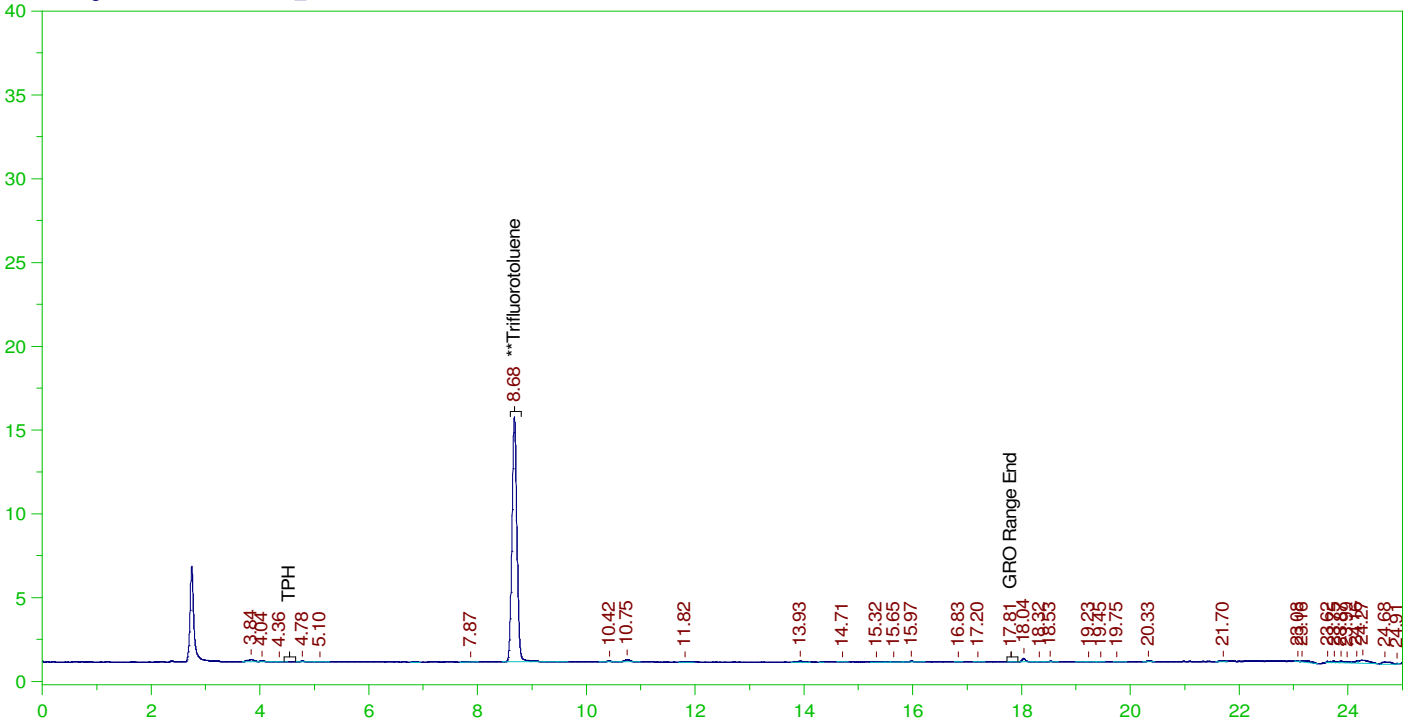
Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.68	125.	88.269	70.61	-

GRO Area:3737.5 GRO Amount: 3.950981
TPH Area:12623.22 TPH Amount: 13.88095

ERH2196 Trip Blank-14525 GRO

G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0016.RAW B21121402-006A ;1217PE1 , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-006A ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0016.RAW
Date & Time Acquired: 12/17/2021 4:13:29 PM
Method File: G:\Org\PE1\Methods\211208G1402-6B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.678	25.	19.915	79.66	-

GRO Area:3966.852 GRO Amount: 0.8386865
TPH Area:14430.41 TPH Amount: 3.173641

ERH2203 Client Trip Blank GRO

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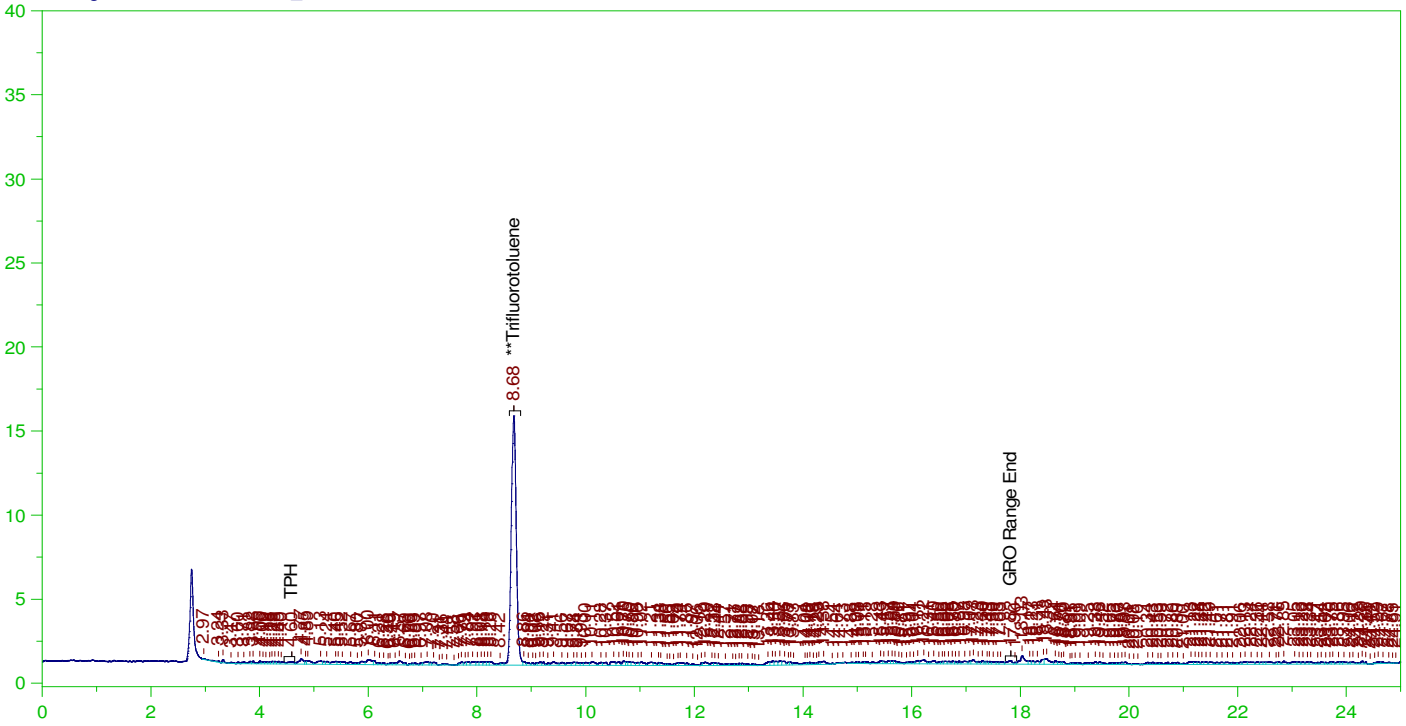


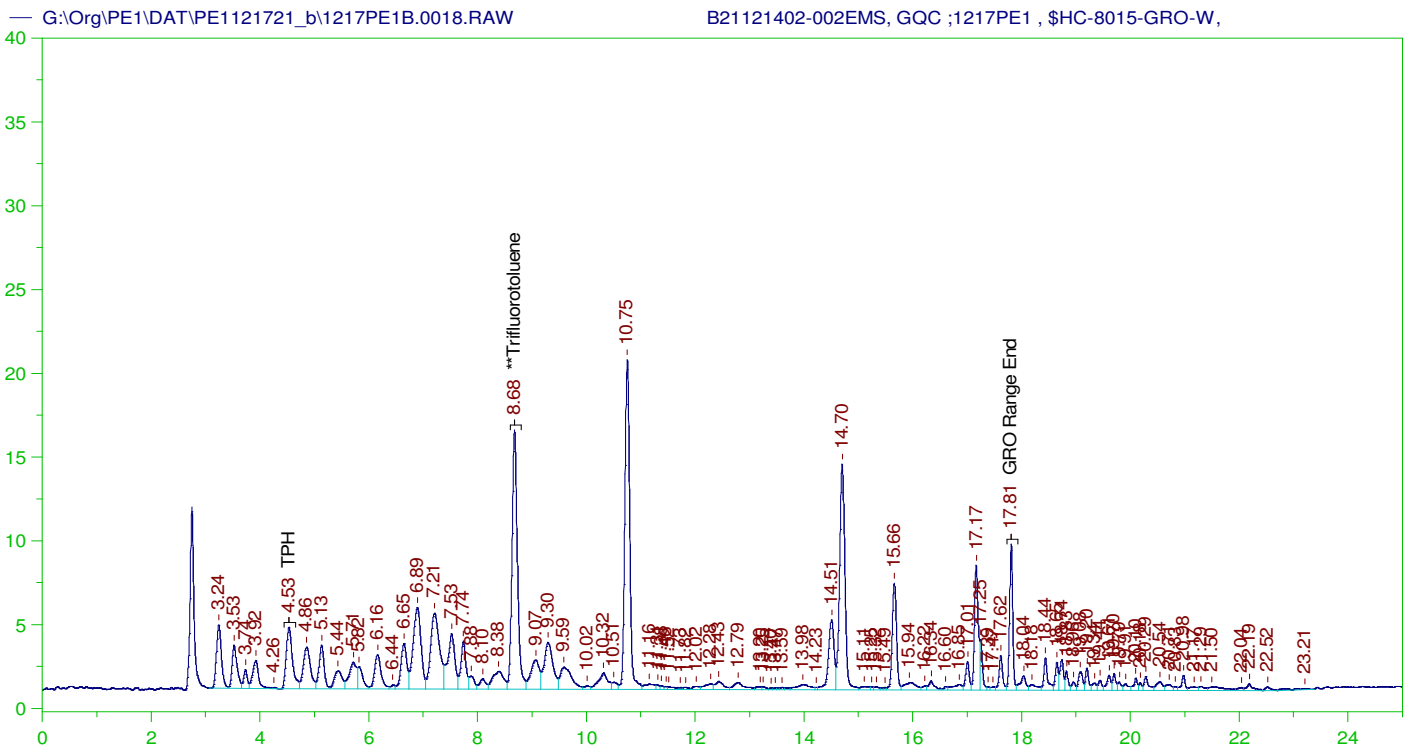
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-012A ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0017.RAW
Date & Time Acquired: 12/17/2021 4:47:47 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.678	25.	20.158	80.63	-

GRO Area:95198.84 GRO Amount: 20.12729
TPH Area:145818.8 TPH Amount: 32.06953



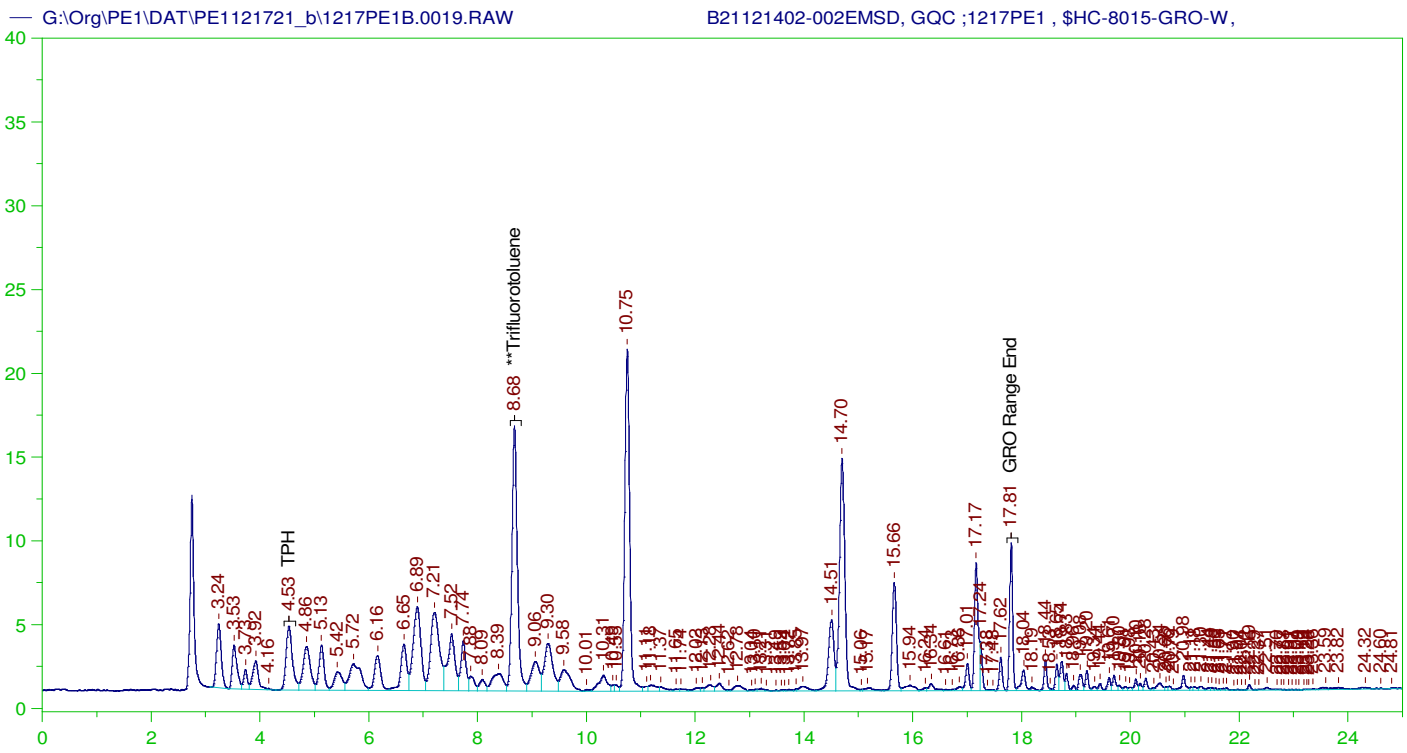
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-002EMS, GQC ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0018.RAW
Date & Time Acquired: 12/17/2021 5:22:06 PM
Method File: G:\Org\PE1\Methods\211208G1402-2MSB%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.681	25.	22.869	91.48	-

GRO Area:857979.8 GRO Amount: 181.3972
TPH Area:1032746 TPH Amount: 227.129



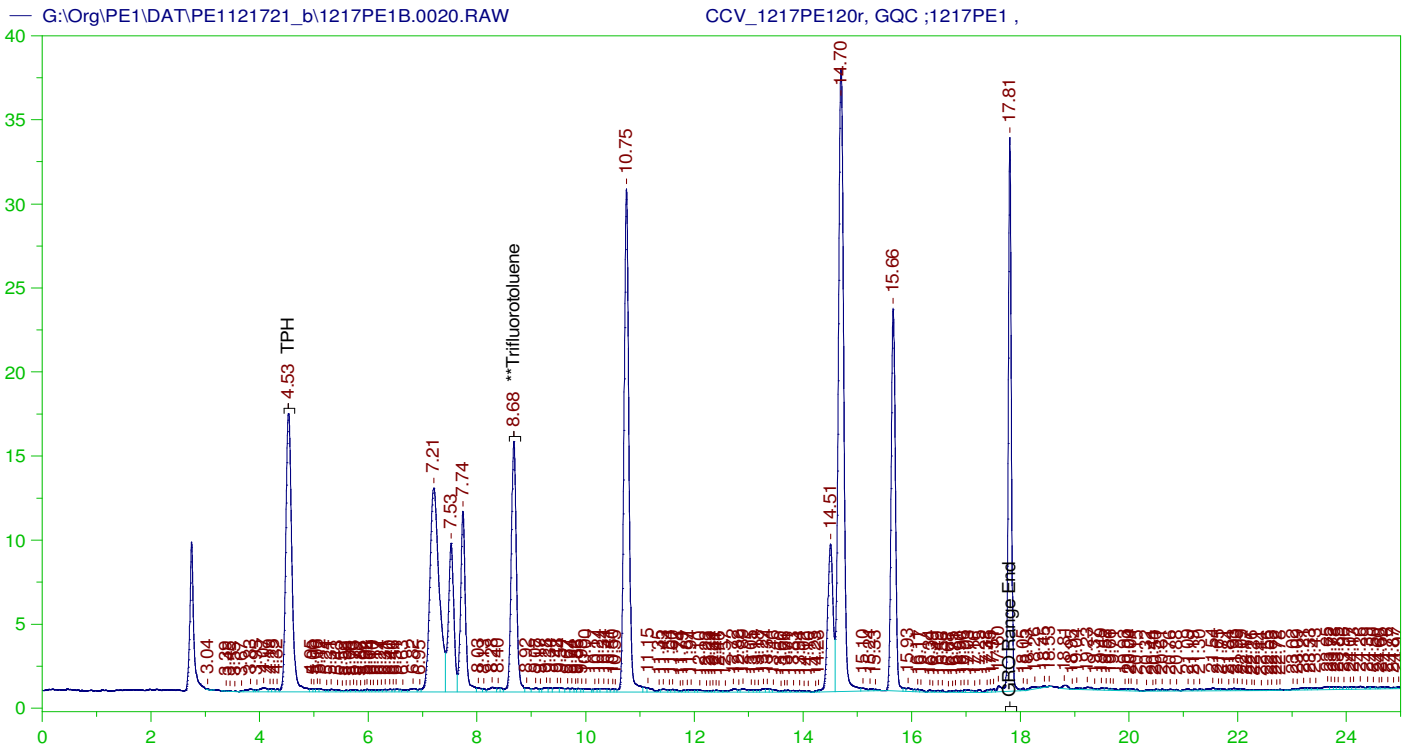
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-002EMSD, GQC ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0019.RAW
Date & Time Acquired: 12/17/2021 5:56:28 PM
Method File: G:\Org\PE1\Methods\211208G1402-2MSDB%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.68	25.	23.235	92.94	-

GRO Area:848887.4 GRO Amount: 179.4749
TPH Area:999694 TPH Amount: 219.86



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1217PE120r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0020.RAW
Date & Time Acquired: 12/17/2021 6:30:49 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

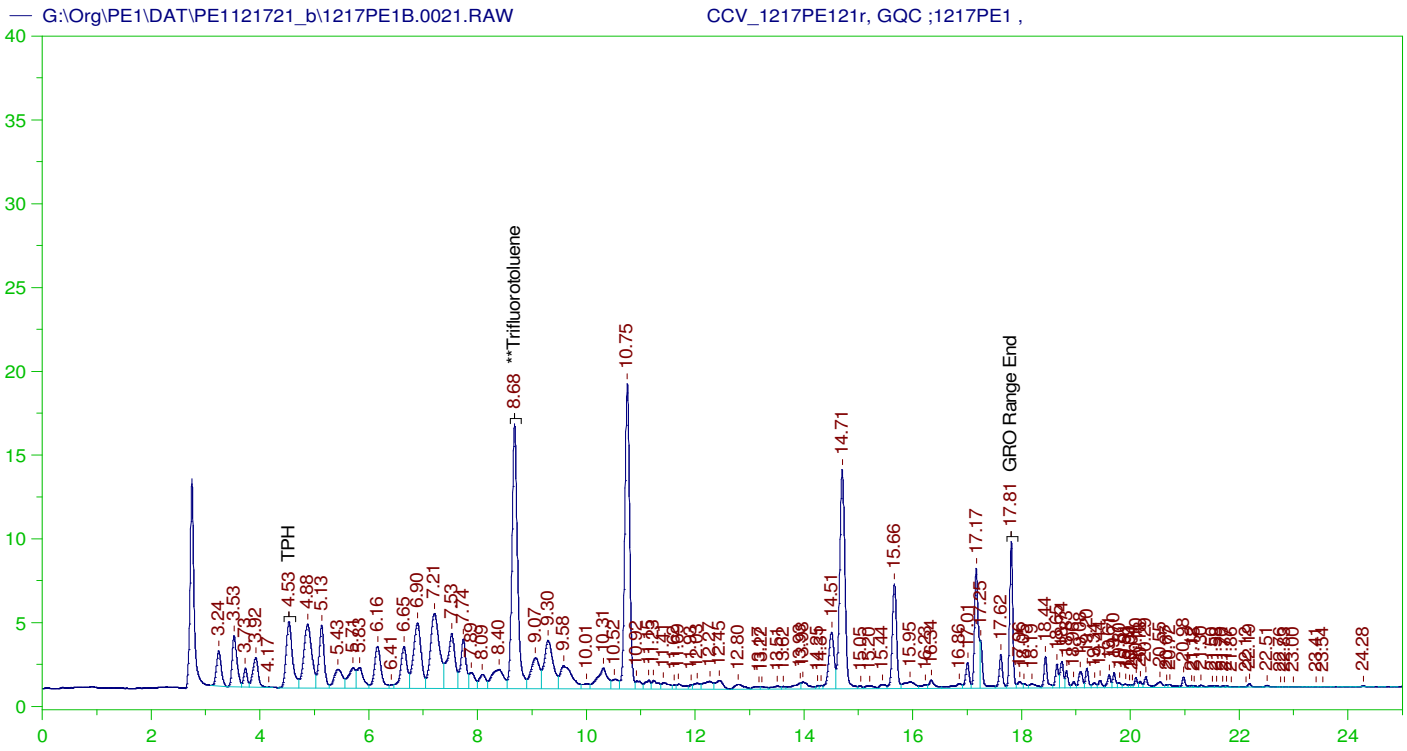
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.678	125.	103.523	82.82	-

GRO Area:1222852 GRO Amount: 1292.7
TPH Area:1260141 TPH Amount: 1385.697

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0020.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	1292.7	153.89	85-115
TPH	1000.	1385.7	138.57	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.678	125.	103.523	82.82	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1217PE121r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0021.RAW
Date & Time Acquired: 12/17/2021 7:05:01 PM
Method File: G:\Org\PE1\Methods\211208GCCV1217_21B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.681	125.	118.963	95.17	-

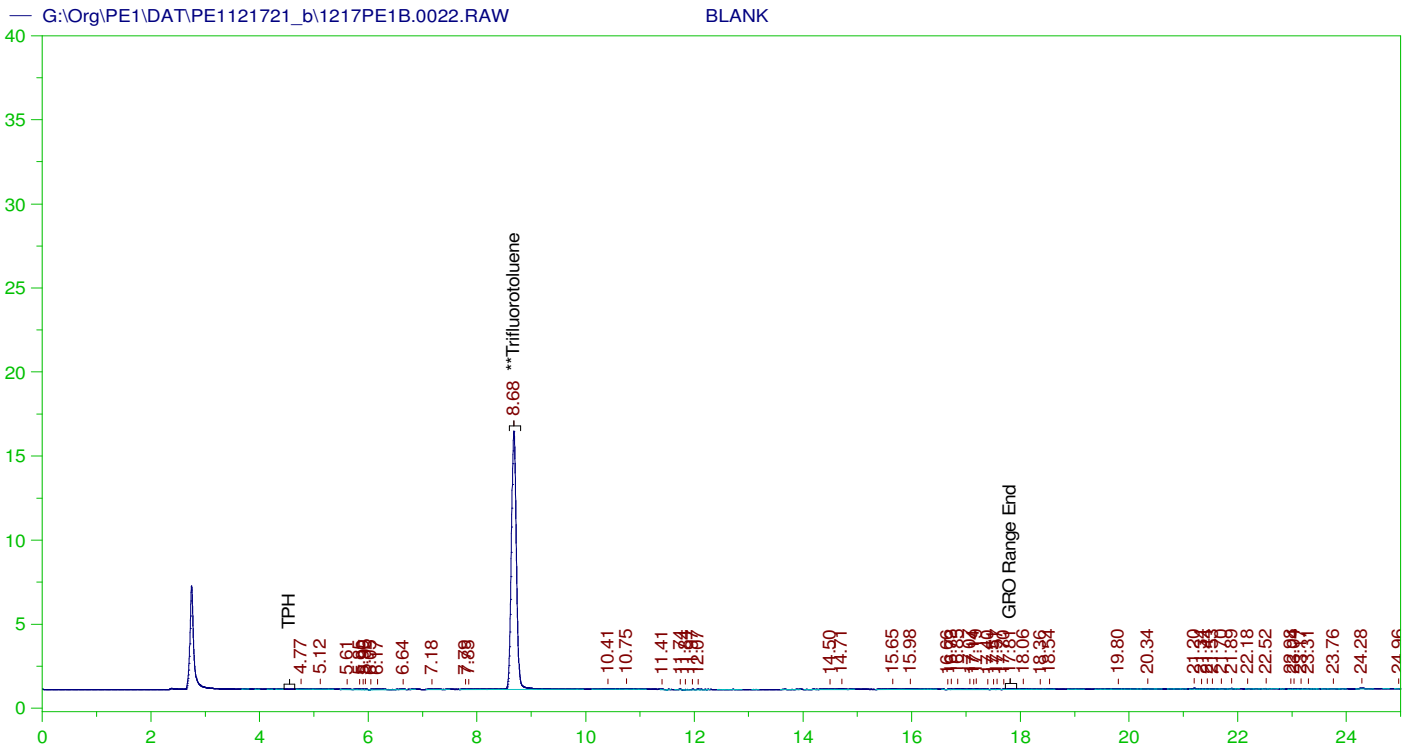
GRO Area:873539.1 GRO Amount: 923.4343
TPH Area:1000367 TPH Amount: 1100.04

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0021.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	923.43	109.93	85-115
TPH	1000.	1100.04	110.	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.681	125.	118.963	95.17	85-115

G:\org\PE1\dat\PE1121721_b\Review\021_CCV_1217PE121r_211208GCCV1217_21B%.xls



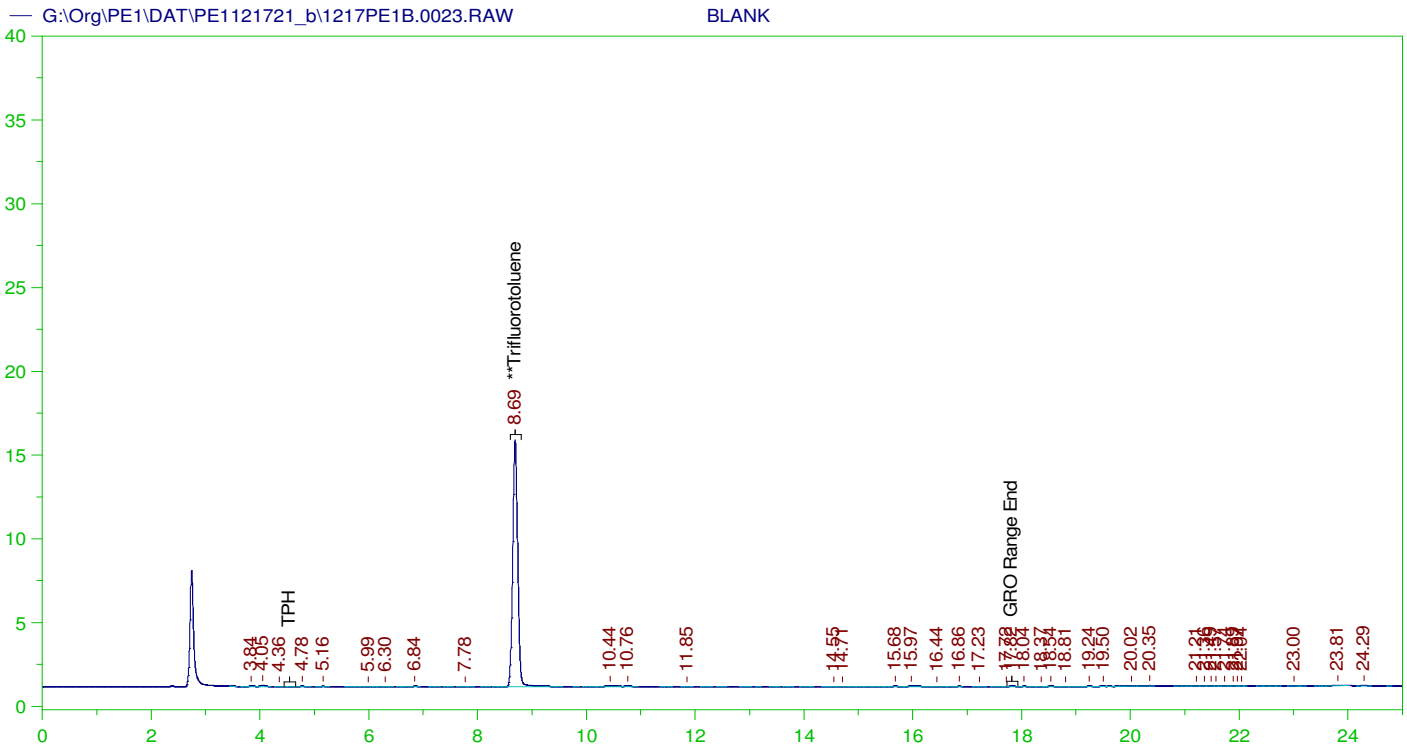
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0022.RAW
Date & Time Acquired: 12/17/2021 7:39:12 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.679	125.	104.553	83.64	-

GRO Area:6071.677 GRO Amount: 6.418482
TPH Area:9205.616 TPH Amount: 10.12283



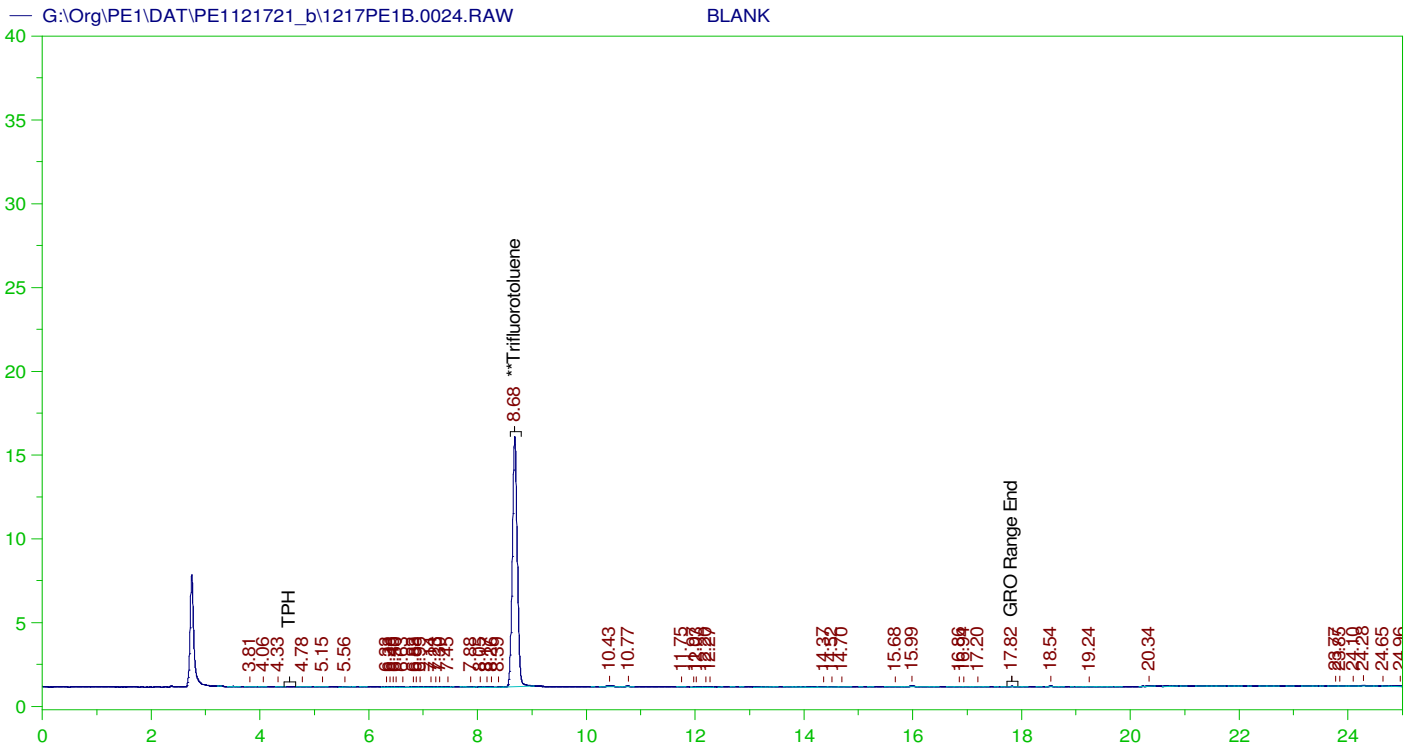
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0023.RAW
Date & Time Acquired: 12/18/2021 9:09:44 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.692	125.	100.319	80.26	-

GRO Area:4335.112 GRO Amount: 4.582727
TPH Area:7506.186 TPH Amount: 8.254076



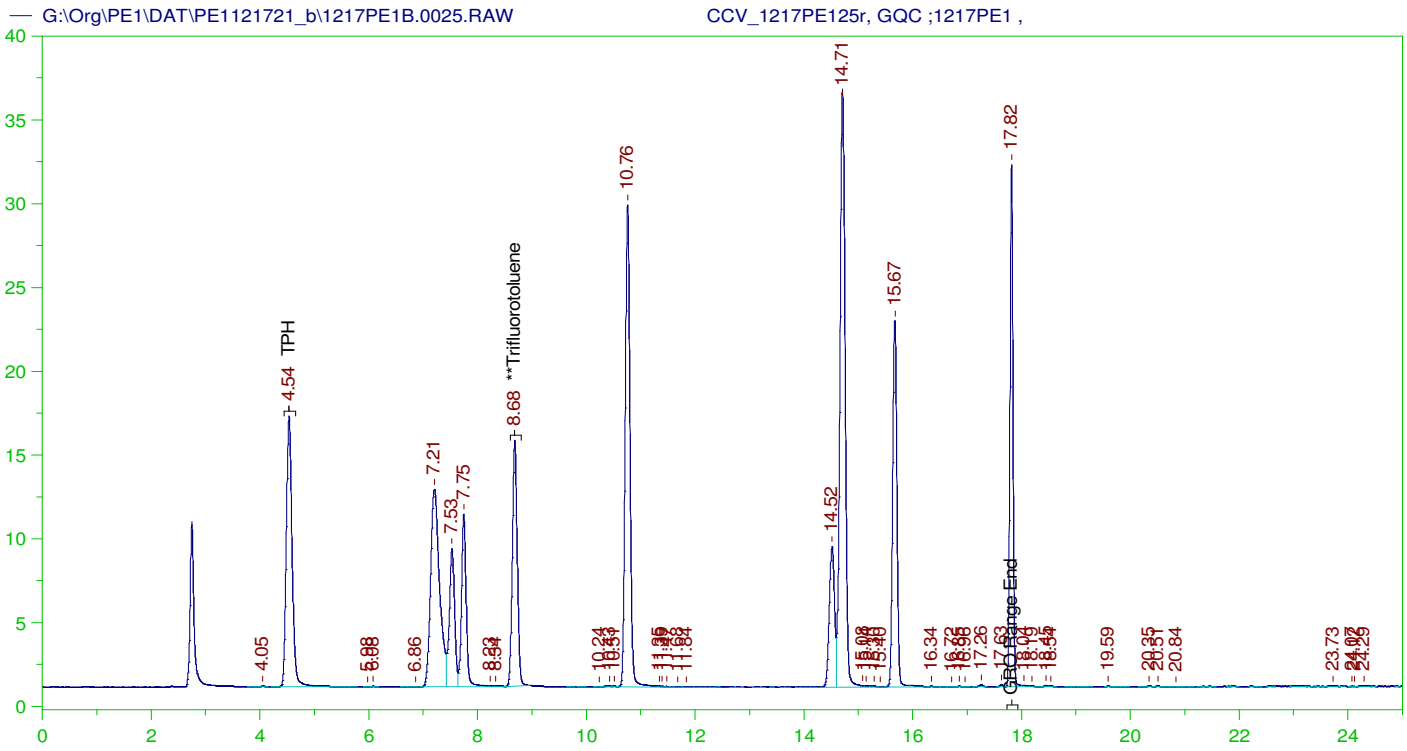
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0024.RAW
Date & Time Acquired: 12/18/2021 9:43:48 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.685	125.	100.28	80.22	-

GRO Area:4872.033 GRO Amount: 5.150316
TPH Area:6994.456 TPH Amount: 7.691359



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1217PE125r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0025.RAW
Date & Time Acquired: 12/18/2021 10:17:54 AM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

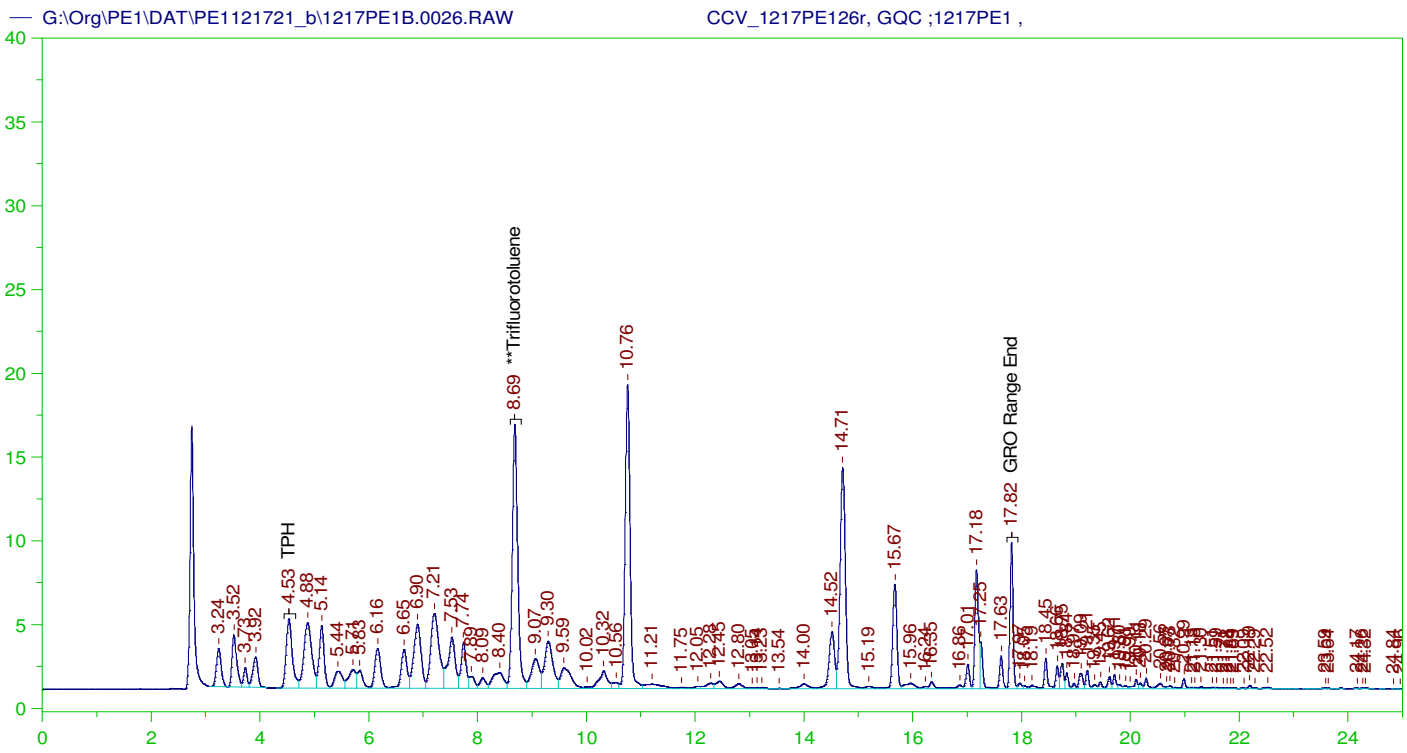
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.685	125.	98.036	78.43	-

GRO Area:1088985 GRO Amount: 1151.186
TPH Area:1092010 TPH Amount: 1200.814

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0025.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	1151.19	137.05	85-115
TPH	1000.	1200.81	120.08	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.685	125.	98.036	78.43	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1217PE126r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0026.RAW
Date & Time Acquired: 12/18/2021 10:52:00 AM
Method File: G:\Org\PE1\Methods\211208GCCV1217_26B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.686	125.	116.076	92.86	-

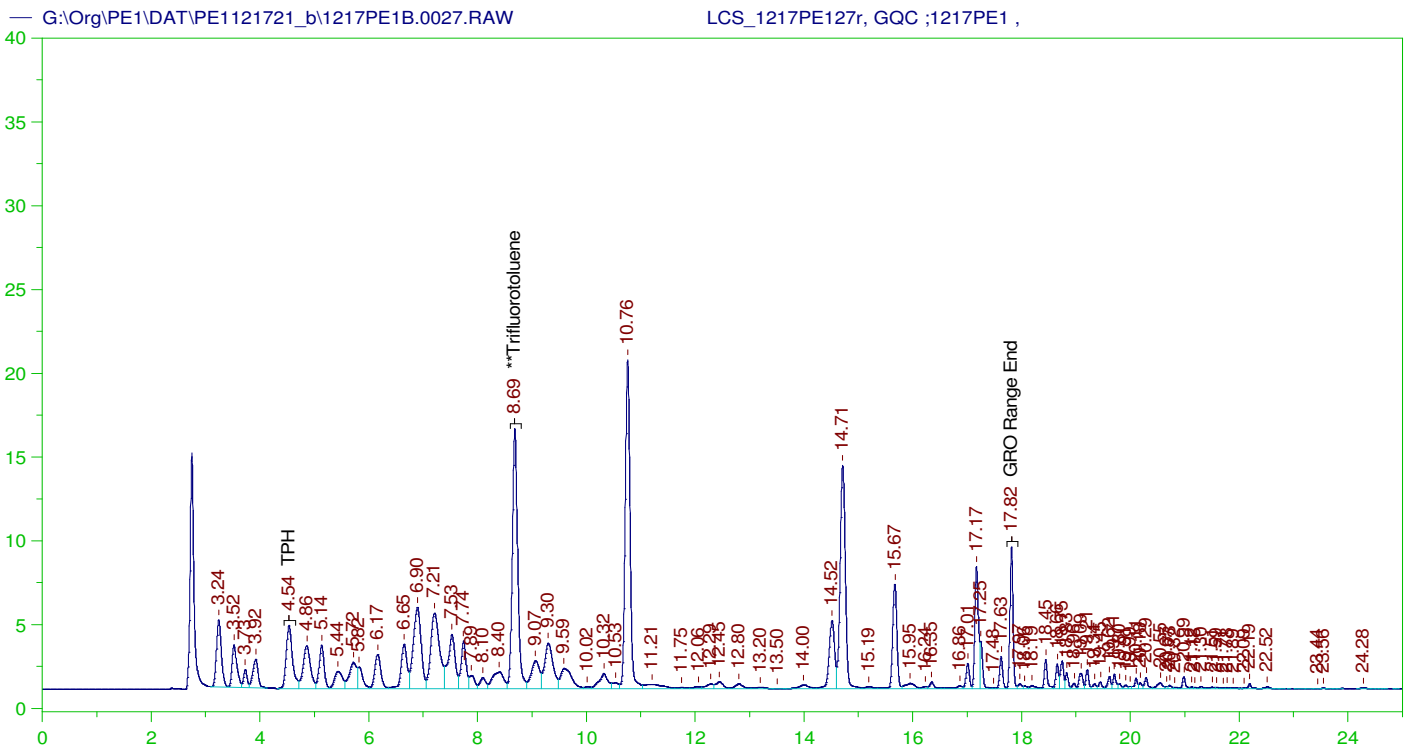
GRO Area:795479.5 GRO Amount: 840.9161
TPH Area:912230.1 TPH Amount: 1003.121

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0026.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	840.92	100.11	85-115
TPH	1000.	1003.12	100.31	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.686	125.	116.076	92.86	85-115

G:\org\PE1\dat\PE1121721_b\Review\026_CCV_1217PE126r_211208GCCV1217_26B%.xls



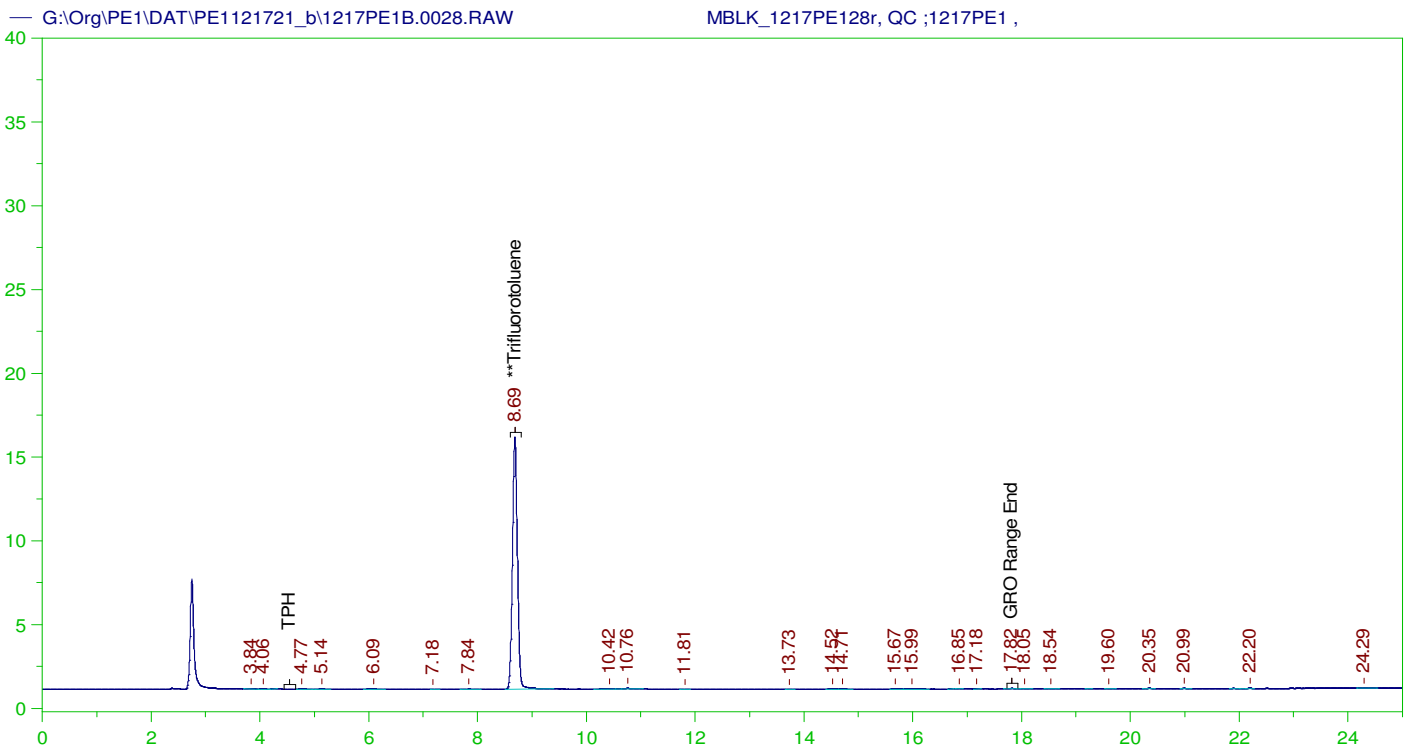
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_1217PE127r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0027.RAW
Date & Time Acquired: 12/18/2021 11:26:08 AM
Method File: G:\Org\PE1\Methods\211208GLCS1217_27B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.686	25.	22.699	90.79	-

GRO Area:795805.1 GRO Amount: 168.252
TPH Area:922237.5 TPH Amount: 202.8252



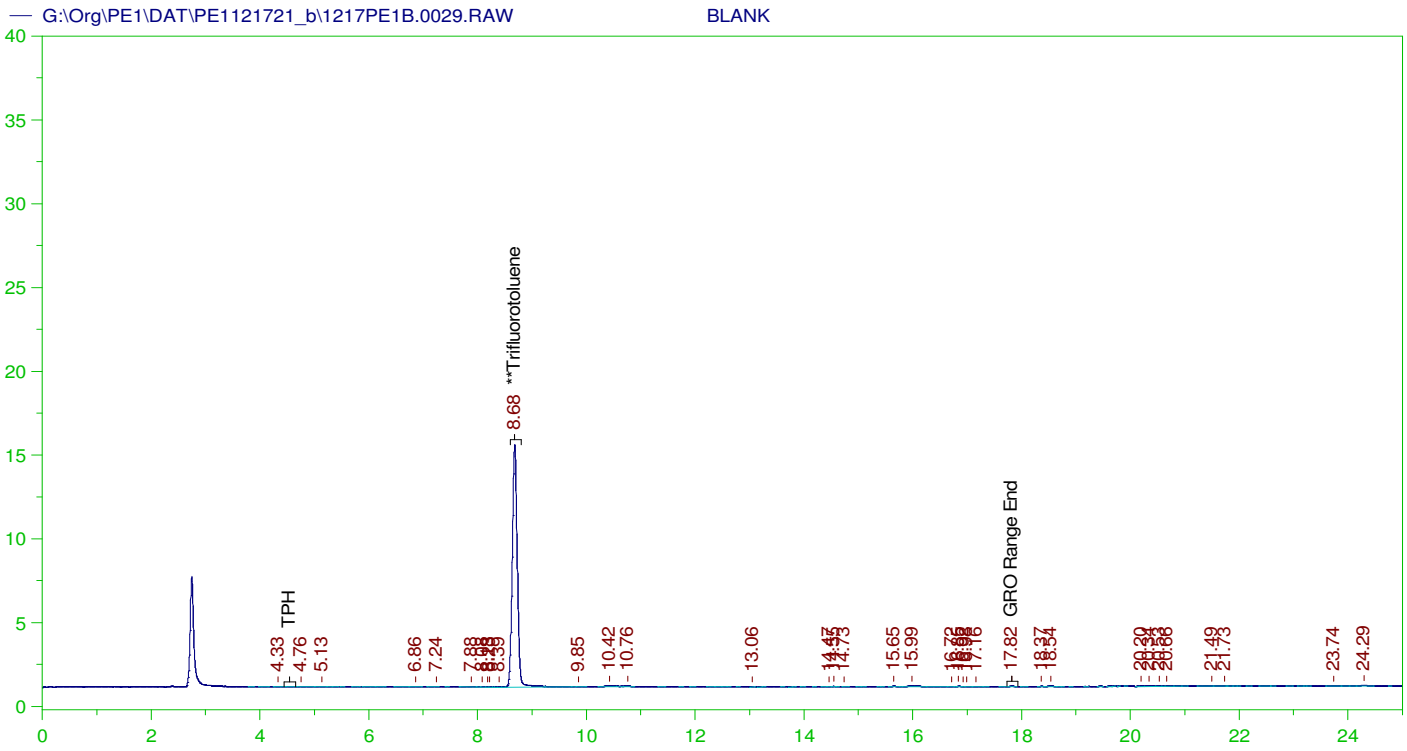
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_1217PE128r, QC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0028.RAW
Date & Time Acquired: 12/18/2021 12:00:17 PM
Method File: G:\Org\PE1\Methods\211208GMB1217_28B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.687	25.	20.423	81.69	-

GRO Area:3001.985 GRO Amount: 0.6346907
TPH Area:4193.227 TPH Amount: 0.922205



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

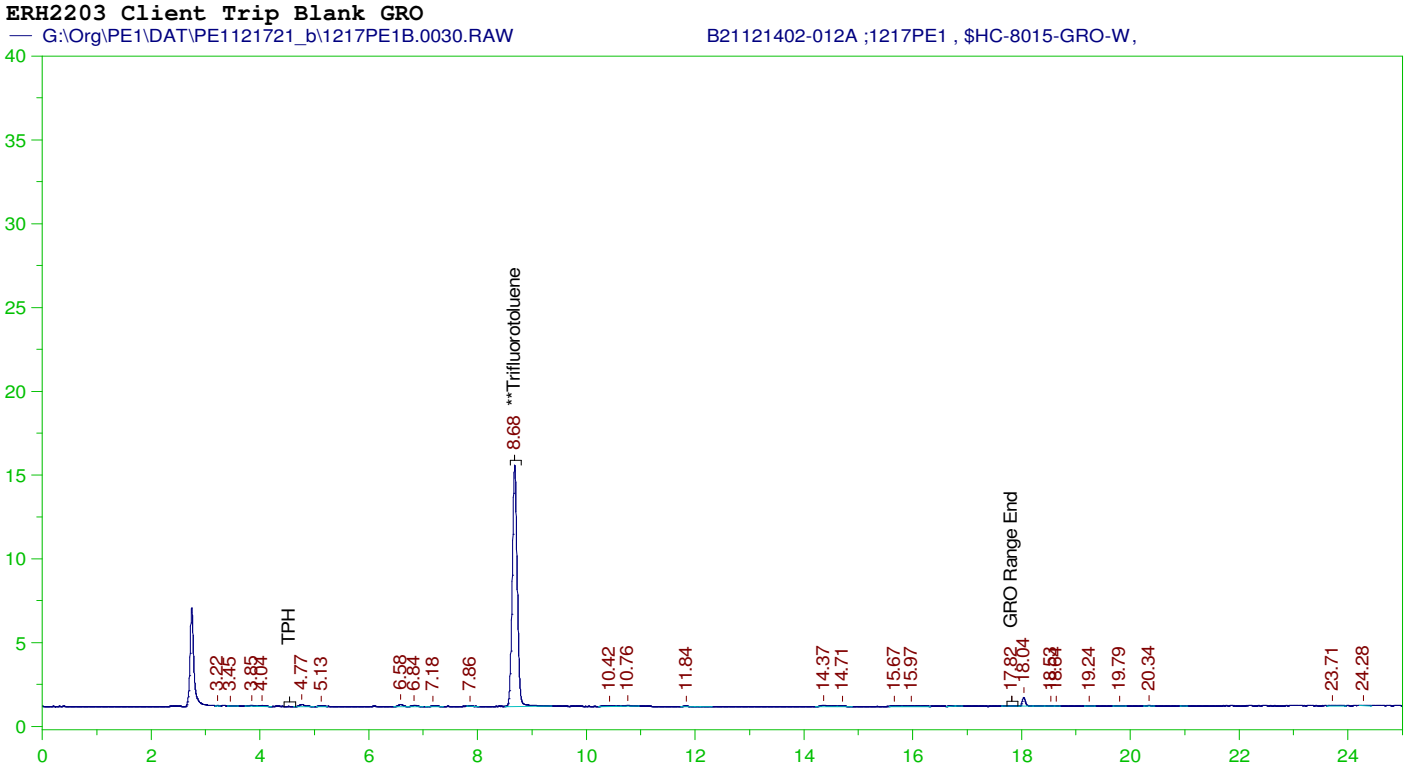
Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0029.RAW
Date & Time Acquired: 12/18/2021 12:34:27 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.684	125.	98.856	79.08	-

GRO Area:4377.309 GRO Amount: 4.627334
TPH Area:6126.057 TPH Amount: 6.736435

ERH2203 Client Trip Blank GRO



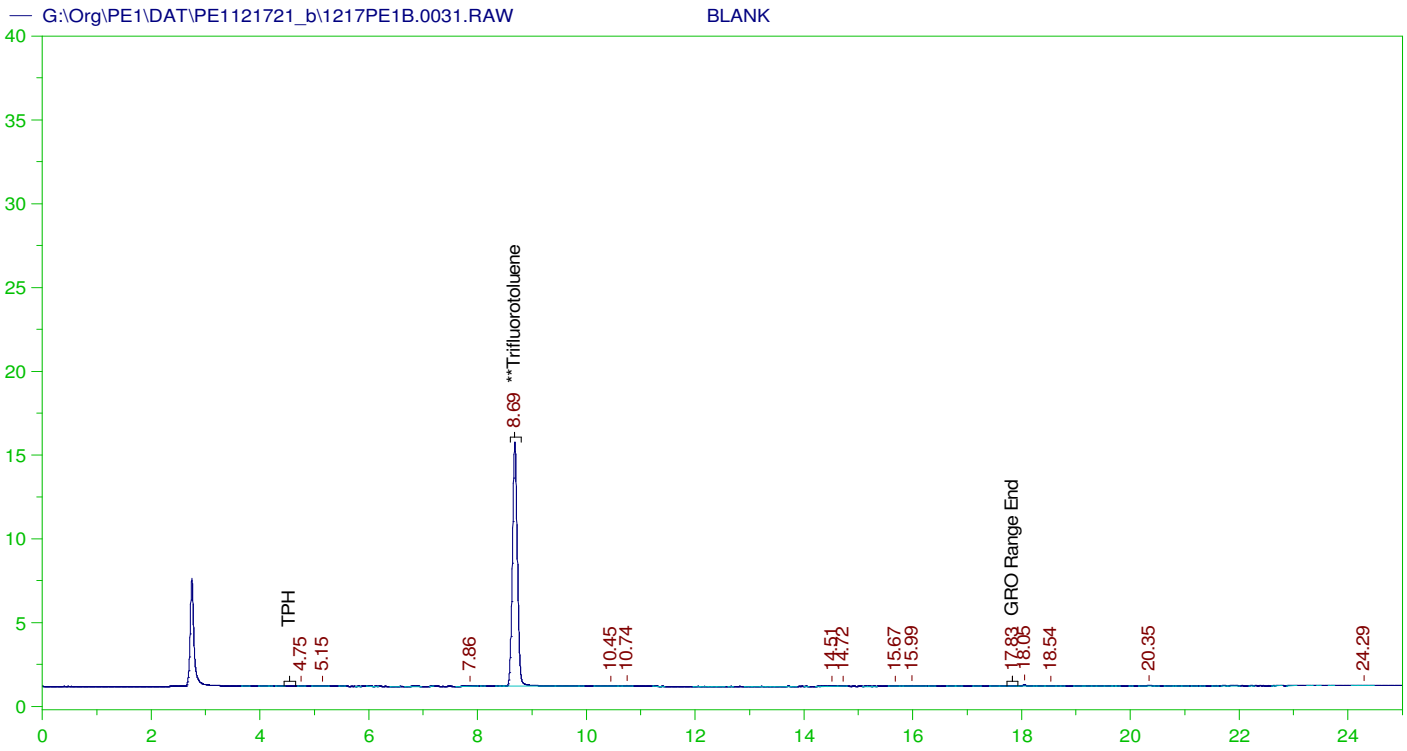
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21121402-012A ;1217PE1 , $HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0030.RAW
Date & Time Acquired: 12/18/2021 1:08:40 PM
Method File: G:\Org\PE1\Methods\211208G1402-12B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.683	25.	19.55	78.2	-

GRO Area:4668.586 GRO Amount: 0.9870497
TPH Area:8316.489 TPH Amount: 1.829023



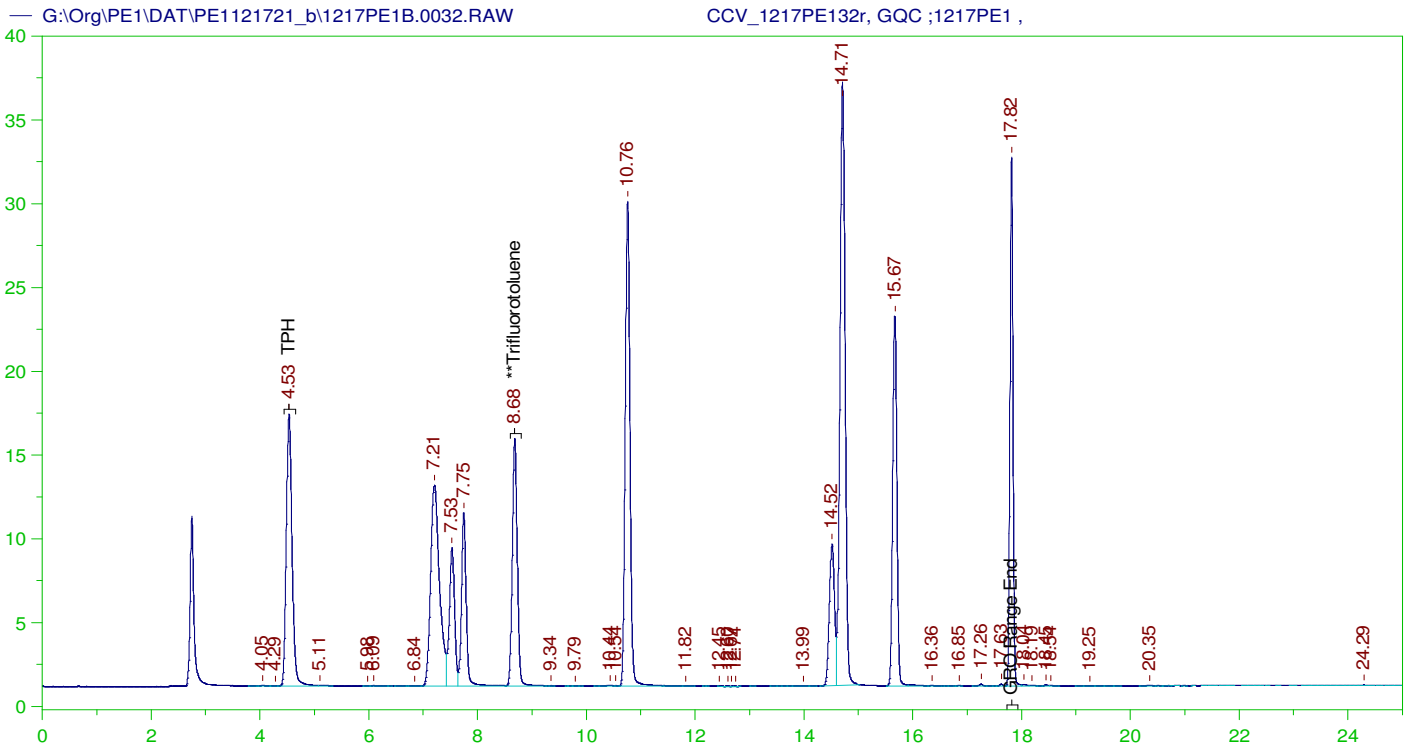
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0031.RAW
Date & Time Acquired: 12/18/2021 1:42:58 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.686	125.	99.353	79.48	-

GRO Area:2449.972 GRO Amount: 2.58991
TPH Area:3839.166 TPH Amount: 4.221687



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1217PE132r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0032.RAW
Date & Time Acquired: 12/18/2021 2:17:16 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

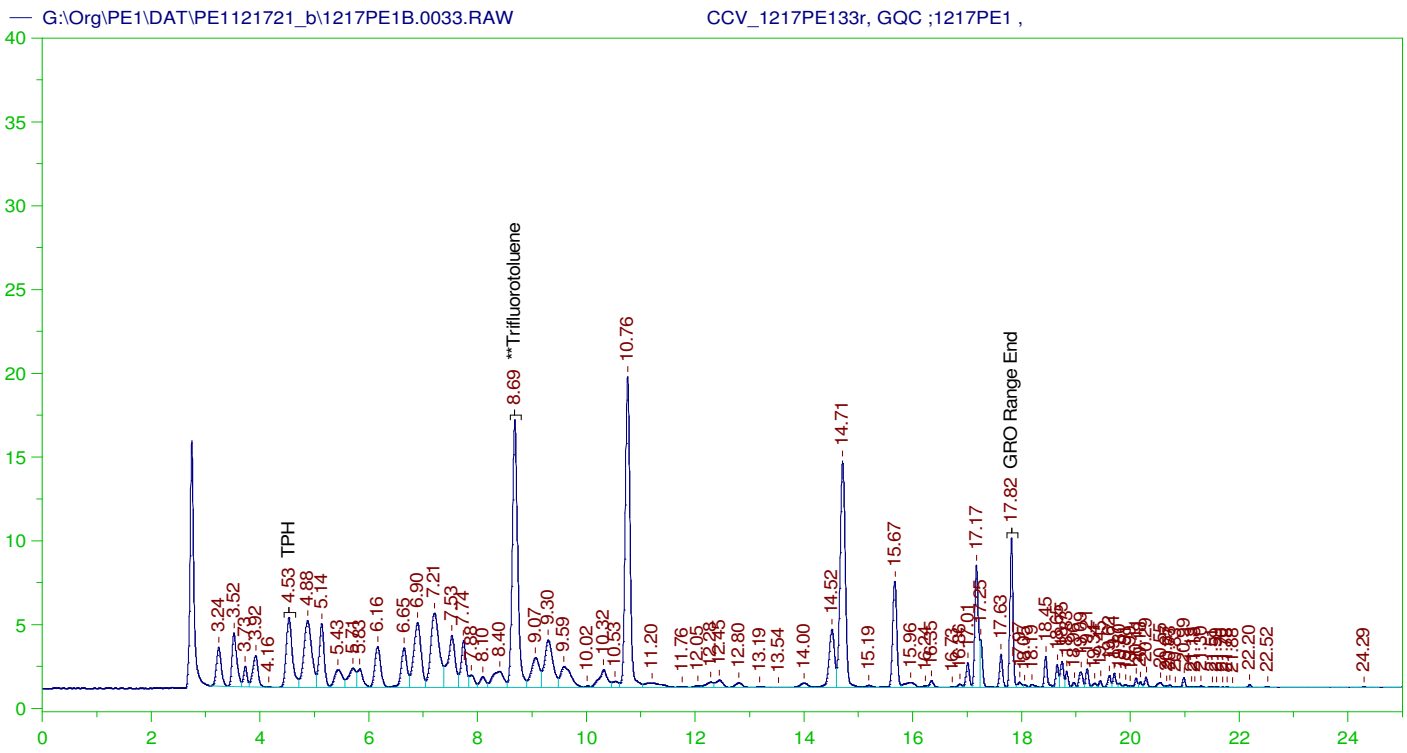
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.684	125.	100.693	80.55	-

GRO Area:1094652 GRO Amount: 1157.177
TPH Area:1097207 TPH Amount: 1206.529

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0032.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	1157.18	137.76	85-115
TPH	1000.	1206.53	120.65	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.684	125.	100.693	80.55	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1217PE133r, GQC ;1217PE1 ,
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0033.RAW
Date & Time Acquired: 12/18/2021 2:51:21 PM
Method File: G:\Org\PE1\Methods\211208GCCV1217_33B%.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.685	125.	117.901	94.32	-

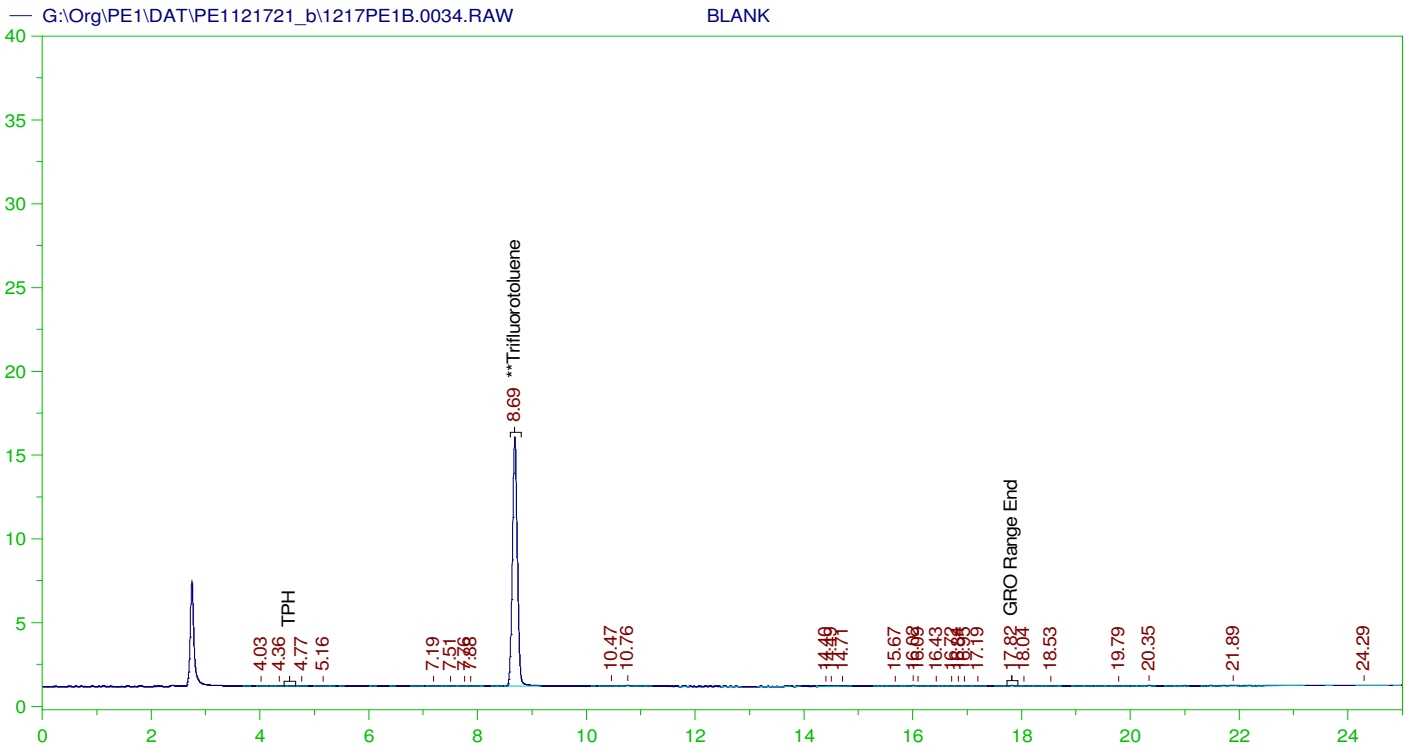
GRO Area:809028 GRO Amount: 855.2385
TPH Area:927983.1 TPH Amount: 1020.444

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0033.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	855.24	101.81	85-115
TPH	1000.	1020.44	102.04	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.685	125.	117.901	94.32	85-115

G:\org\PE1\dat\PE1121721_b\Review\033_CCV_1217PE133r_211208GCCV1217_33B%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\PE1\DAT\PE1121721_b\1217PE1B.0034.RAW
Date & Time Acquired: 12/18/2021 3:25:27 PM
Method File: G:\Org\PE1\Methods\211208GROB.MET
Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 945.9678
Mean RF for TPH: 909.3915
Rt range for Gasoline Range Organics: 4.45 to 17.93

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.686	125.	100.126	80.1	-

GRO Area:3702.327 GRO Amount: 3.913799
TPH Area:5252.099 TPH Amount: 5.7754

Write Sequence / Data File	Insert Entries(Have the first cell for entries selecte / Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\PE1\DAT\PE1121721_b\1217PE1.01r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.02r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.03r	CCV_1217PE103r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.04r	CCV_1217PE104r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.05r	LCS_1217PE105r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.06r	MBLK_1217PE106r, QC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.07r	B21121402-001E ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.08r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.09r	B21121402-002E ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	None
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G:\Org\PE1\DAT\PE1121721_b\1217PE1.11r	B21121402-003E ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.12r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.13r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.14r	B21121402-003E ;1217PE1 , $HC-8015-GRO-W,,(1,5)	G:\Org\PE1\Methods\21120	5	5	1	5	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.15r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.16r	B21121402-006A ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.17r	*B21121402-012A ;1217PE1 , $HC-8015-GRO-W,*	G:\Org\PE1\Methods\21120	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.18r	B21121402-002EMS, GQC ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.19r	B21121402-002EMSD, GQC ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.20r	CCV_1217PE120r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	None

G:\Org\PE1\DAT\PE1121721_b\1217PE1.21r	CCV_1217PE121r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.22r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.23r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.24r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.25r	CCV_1217PE125r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.26r	CCV_1217PE126r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.27r	LCS_1217PE127r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.28r	MBLK_1217PE128r, QC ;1217PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.29r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.30r	B21121402-012A ;1217PE1 , $HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.31r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.32r	CCV_1217PE132r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1121721_b\1217PE1.33r	CCV_1217PE133r, GQC ;1217PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1121721_b\1217PE1.34r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None

Josie M Pickard
Chemist

Digitally signed by
Josie Pickard
Date: 2022.01.17 10:29:18 -07:00

Energy Laboratories Inc

Standard LOG

Standard ID:	GASL211208		
Standard Name	Low Gasoline Std.	Type:	Secondary
Date Prepared	12/8/2021	BY:	Josie Pickard
Date Expires:	6/7/2023		
Department	GCVOA	Status:	Open
Vendor:			
Lot Number:			
Balance ID:			
Comments:	concentration 0.42ug/ul		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EB199	14400	0.9	mL	3/20/

Final Volume: 1 mL

Stock Source		**Base Units**	**Amount Added**
GAS210122	Unleaded Gasoline Comp. Std.(2.0uL)	ug/mL	0.1 mL

Analytes	**CAS**	Conc:	**ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID:	GAS210122		
Standard Name	Unleaded Gasoline Comp. Std.(2.0uL)	Type:	Secondary
Date Prepared	1/22/2021	BY:	Josie Pickard
Date Expires:	6/7/2023		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			
Comments:	Concentration : 4.2ug/ul		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

Stock Source		Base Units	Amount Added
GASH210122	Unleaded Gasoline Composite	ug/mL	0.84 mL

Analytes	CAS	Conc:	ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID:	GASH210122		
Standard Name	Unleaded Gasoline Composite	Type:	Primary
Date Prepared	1/22/2021	BY:	Josie Pickard
Date Expires:	6/7/2023		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			

Comments: Concetration : 50,000 ug/ml

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

Stock Source		**Base Units**	**Amount Added**
3GAS160127	Alaska Gasoline Calibration Mix Versio	ug/mL	0.5022 g

Analytes	**CAS**	Conc:	**ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID:	3GAS160127		
Standard Name	Alaska Gasoline Calibration Mix Version 4/8/0	Type:	Neat
Date Prepared	1/27/2016	BY:	Josie Pickard
Date Expires:	6/7/2023		
Department	GCVOA	Status:	New
Vendor:	Accustandard		
Lot Number:	213051468		
Balance ID:			

Comments: 33% of each gasoline Date prepared is date received Assay ran 2/1/16 on PE1; GRO equals 84% of TPH jmp 2/1/16

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Alaska Gasoline Calibration Mix Versio	8120	5	mL	6/7/2

Final Volume: 5 mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**

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CERTIFICATE OF ANALYSIS

Catalog No: GRO-AK-101-GCS-R1
Description: Alaska Gasoline Calibration Mix Version 4/8/02
Lot: 213051468
Solvent: N/A
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jun 7, 2013
Expiration: Jun 7, 2023
Sample Size: 1 mL
Components: 3
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (%w/w)	Certified Analyte Concentration[2] (%w/w)
Gasoline - Regular, unleaded	8006-61-9	Tech Mix	33.30	33.30
Gasoline - Plus, unleaded	8006-61-9	Tech Mix	33.40	33.40
Gasoline - Premium, unleaded	8006-61-9	Tech Mix	33.30	33.30

ID #: 8120
Opened:
Alaska Gasoline Calibration Mix Version 4/8/0
Expires: 6/7/2023
Rec'd: 1/27/2016
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weighs are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Energy Laboratories Inc

Standard LOG

Standard ID:	TFTL211208		
Standard Name	TFTL	Type:	Secondary
Date Prepared	12/8/2021	BY:	Josie Pickard
Date Expires:	9/10/2029		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			
Comments:	Final concentration :0.01mg/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EB199	14400	0.9	mL	3/20/

Final Volume: 1 mL

Stock Source		**Base Units**	**Amount Added**
TFTM211208	TFTM	ug/mL	0.1 mL

Analytes	**CAS**	Conc:	**ug/mL**

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	TFTM211208		
Standard Name	TFTM	Type:	Secondary
Date Prepared	12/8/2021	BY:	Josie Pickard
Date Expires:	9/10/2029		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			
Comments:	Final concentration :0.1mg/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EB199	14400	0.9	mL	3/20/

Final Volume: 1 mL

Stock Source		**Base Units**	**Amount Added**
TFT211208	TFT (1.05uL)	ug/mL	0.1 mL

Analytes	**CAS**	Conc:	**ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID:	TFT211208		
Standard Name	TFT (1.05uL)	Type:	Secondary
Date Prepared	12/8/2021	BY:	Josie Pickard
Date Expires:	9/10/2029		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			

Comments: Final concentration : 1.0mg/mL

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EB199	14400	1.9	mL	3/20/

Final Volume: 2 mL

Stock Source		**Base Units**	**Amount Added**
TFTS210607	TFT Stock	ug/mL	0.1 mL

Analytes	**CAS**	Conc:	**ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID:	TFTS210607		
Standard Name	TFT Stock	Type:	Primary
Date Prepared	6/7/2021	BY:	Josie Pickard
Date Expires:	9/10/2029		
Department	GCVOA	Status:	New
Vendor:	Accustandard		
Lot Number:	219091095		
Balance ID:			

Comments: 20mg/ml in Meoh Date prepared is date received.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
a,a,a-Trifluorotoluene	13921	10	mL	9/10/

Final Volume: 10 mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**

Page: *1 of 1*

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CERTIFICATE OF ANALYSIS

Catalog No: M-602-SS-100X
Description: a,a,a-Trifluorotoluene
Lot: 219091095
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Sep 10, 2019
Expiration: Sep 10, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (mg/mL)	Certified Analyte Concentration[1] (mg/mL)
a,a,a-Trifluorotoluene	98-08-8	99.9	20.01	19.99

ID #: 13921
Opened:_____
a,a,a-Trifluorotoluene
Expires: 9/10/2029
Rec'd: 6/7/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Energy Laboratories Inc

Standard LOG

Standard ID:	GQC201214		
Standard Name	Gasoline Composite Mix (1.68uL)	Type:	Primary
Date Prepared	12/14/2020	BY:	Josie Pickard
Date Expires:	4/2/2030		
Department	GCVOA	Status:	New
Vendor:	Accustandard		
Lot Number:	220031562		
Balance ID:			

Comments: 5000 ug/mL in MeOH Date prepared is date received; Assay run 4/1/21 on Pe1 GRO range equals 85% jmp, mistyped the date received. The date received was 12/17/20 jmp

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Gasoline Composite Mix	13338	5	mL	4/2/2

Final Volume: 5 mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**

Page: *1 of 1*

Josie

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CERTIFICATE OF ANALYSIS

Catalog No: GRO-AK-101-GCS
Description: Gasoline Composite Mix
Lot: 220031562
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 2, 2020
Expiration: Apr 2, 2030
Sample Size: 1 mL
Components: 3
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Gasoline - Premium, unleaded	N/A	Tech Mix	1660	1660
Gasoline - Regular, leaded	N/A	Tech Mix	1674	1674
Gasoline - Regular, unleaded	N/A	Tech Mix	1673	1673

ID #: 13338
Opened:_____
Gasoline Composite Mix
Expires: 4/2/2030
Rec'd: 12/17/2020
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Energy Laboratories Inc

Standard LOG

Standard ID:	GAS210122		
Standard Name	Unleaded Gasoline Comp. Std.(2.0uL)	Type:	Secondary
Date Prepared	1/22/2021	BY:	Josie Pickard
Date Expires:	6/7/2023		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			
Comments:	Concentration : 4.2ug/ul		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

Stock Source		Base Units	Amount Added
GASH210122	Unleaded Gasoline Composite	ug/mL	0.84 mL

Analytes	CAS	Conc:	ug/mL

Page: *1 of 1*

Energy Laboratories Inc

Standard LOG

Standard ID:	GASH210122		
Standard Name	Unleaded Gasoline Composite	Type:	Primary
Date Prepared	1/22/2021	BY:	Josie Pickard
Date Expires:	6/7/2023		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			

Comments: Concetration : 50,000 ug/ml

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap DZ880	13323	10	mL	9/18/

Final Volume: 10 mL

Stock Source		**Base Units**	**Amount Added**
3GAS160127	Alaska Gasoline Calibration Mix Versio	ug/mL	0.5022 g

Analytes	**CAS**	Conc:	**ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID:	3GAS160127		
Standard Name	Alaska Gasoline Calibration Mix Version 4/8/0	Type:	Neat
Date Prepared	1/27/2016	BY:	Josie Pickard
Date Expires:	6/7/2023		
Department	GCVOA	Status:	New
Vendor:	Accustandard		
Lot Number:	213051468		
Balance ID:			

Comments: 33% of each gasoline Date prepared is date received Assay ran 2/1/16 on PE1; GRO equals 84% of TPH jmp 2/1/16

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Alaska Gasoline Calibration Mix Versio	8120	5	mL	6/7/2

Final Volume: 5 mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**

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CERTIFICATE OF ANALYSIS

Catalog No: GRO-AK-101-GCS-R1
Description: Alaska Gasoline Calibration Mix Version 4/8/02
Lot: 213051468
Solvent: N/A
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jun 7, 2013
Expiration: Jun 7, 2023
Sample Size: 1 mL
Components: 3
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (%w/w)	Certified Analyte Concentration[2] (%w/w)
Gasoline - Regular, unleaded	8006-61-9	Tech Mix	33.30	33.30
Gasoline - Plus, unleaded	8006-61-9	Tech Mix	33.40	33.40
Gasoline - Premium, unleaded	8006-61-9	Tech Mix	33.30	33.30

ID #: 8120
Opened:_____
Alaska Gasoline Calibration Mix Version 4/8/0
Expires: 6/7/2023
Rec'd: 1/27/2016
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weighs are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Energy Laboratories Inc

Standard LOG

Standard ID:	TFT211214		
Standard Name	TFT (1.05uL)	Type:	Secondary
Date Prepared	12/14/2021	BY:	Josie Pickard
Date Expires:	9/10/2029		
Department	GCVOA	Status:	New
Vendor:			
Lot Number:			
Balance ID:			
Comments:	Final concentration : 1.0mg/mL		

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
Methanol, Purge and Trap EB199	14400	1.9	mL	3/20/

Final Volume: 2 mL

Stock Source		**Base Units**	**Amount Added**
TFTS210607	TFT Stock	ug/mL	0.1 mL

Analytes	**CAS**	Conc:	**ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID:	TFTS210607		
Standard Name	TFT Stock	Type:	Primary
Date Prepared	6/7/2021	BY:	Josie Pickard
Date Expires:	9/10/2029		
Department	GCVOA	Status:	New
Vendor:	Accustandard		
Lot Number:	219091095		
Balance ID:			

Comments: 20mg/ml in Meoh Date prepared is date received.

Chemical / Solvent Used	BottleNo	Amt	Units	Exp
a,a,a-Trifluorotoluene	13921	10	mL	9/10/

Final Volume: 10 mL

Stock Source	**Base Units**	**Amount Added**
Analytes	**CAS**	Conc: **ug/mL**

Page: *1 of 1*

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CERTIFICATE OF ANALYSIS

Catalog No: M-602-SS-100X
Description: a,a,a-Trifluorotoluene
Lot: 219091095
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Sep 10, 2019
Expiration: Sep 10, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (mg/mL)	Certified Analyte Concentration[1] (mg/mL)
a,a,a-Trifluorotoluene	98-08-8	99.9	20.01	19.99

ID #: 13921
Opened:_____
a,a,a-Trifluorotoluene
Expires: 9/10/2029
Rec'd: 6/7/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: _____
Larry Decker, Organic QC Manager

Page 1 of 1

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