

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 selected)

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:

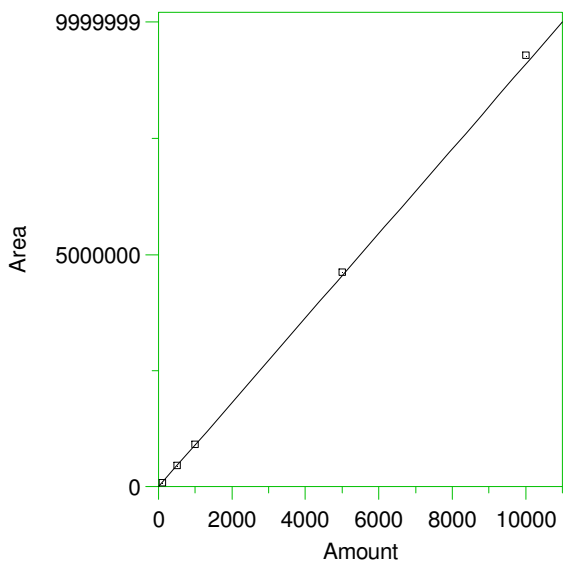
External standard calibration

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.

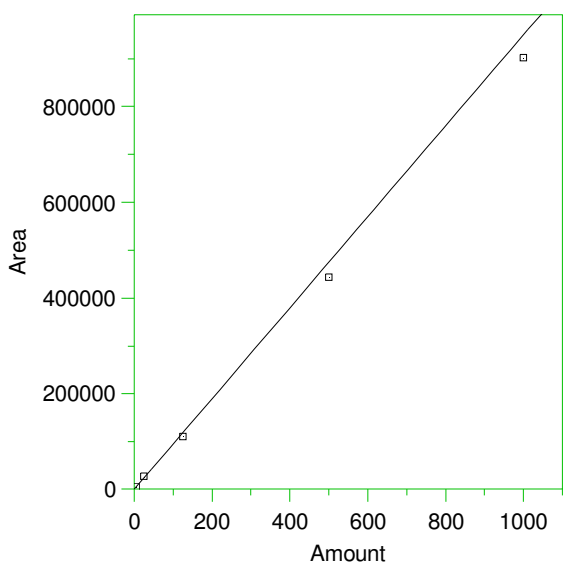
1 TPH



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

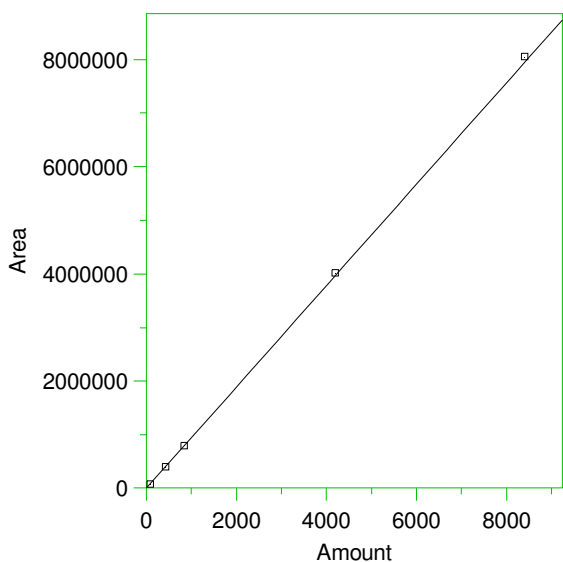
2 **Trifluorotoluene



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%

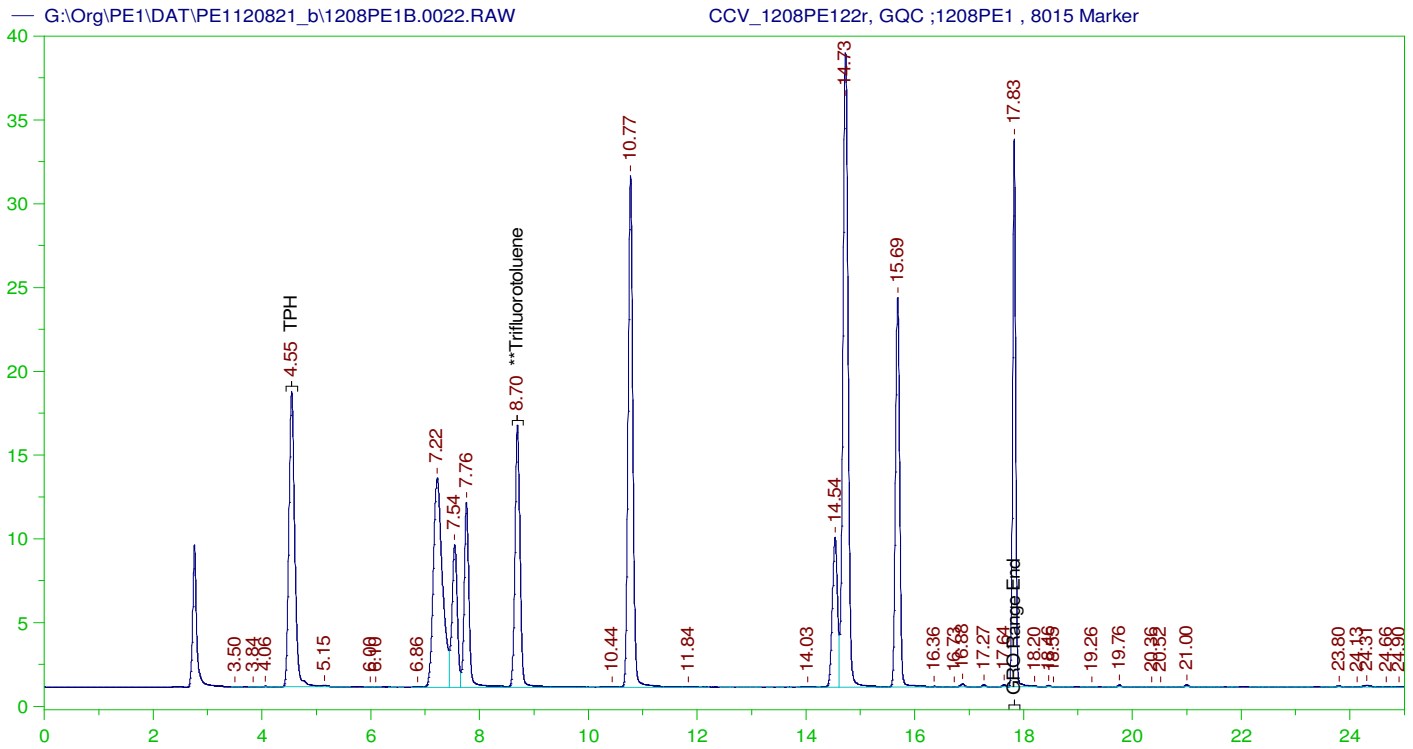
Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5	5047	1009.4	6.273	Manual	12/9/2021 7:37:16 AM
2	25	26519	1060.76	11.681	Manual	12/9/2021 7:40:13 AM
3	125	111243	889.944	-6.304	Manual	12/9/2021 7:41:25 AM
4	500	443112	886.224	-6.695	Manual	12/9/2021 7:42:24 AM
5	1000	902754	902.754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

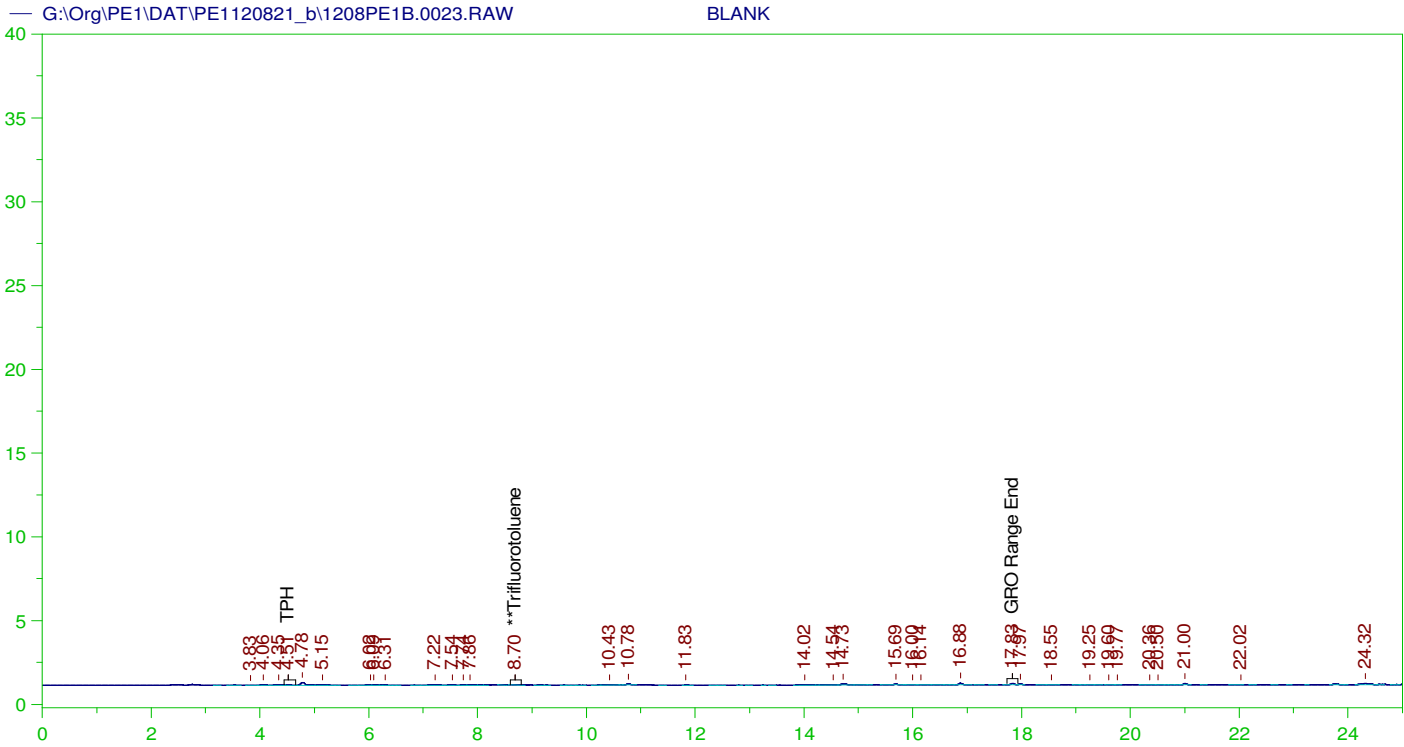
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.697	125.	106.996	85.6

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



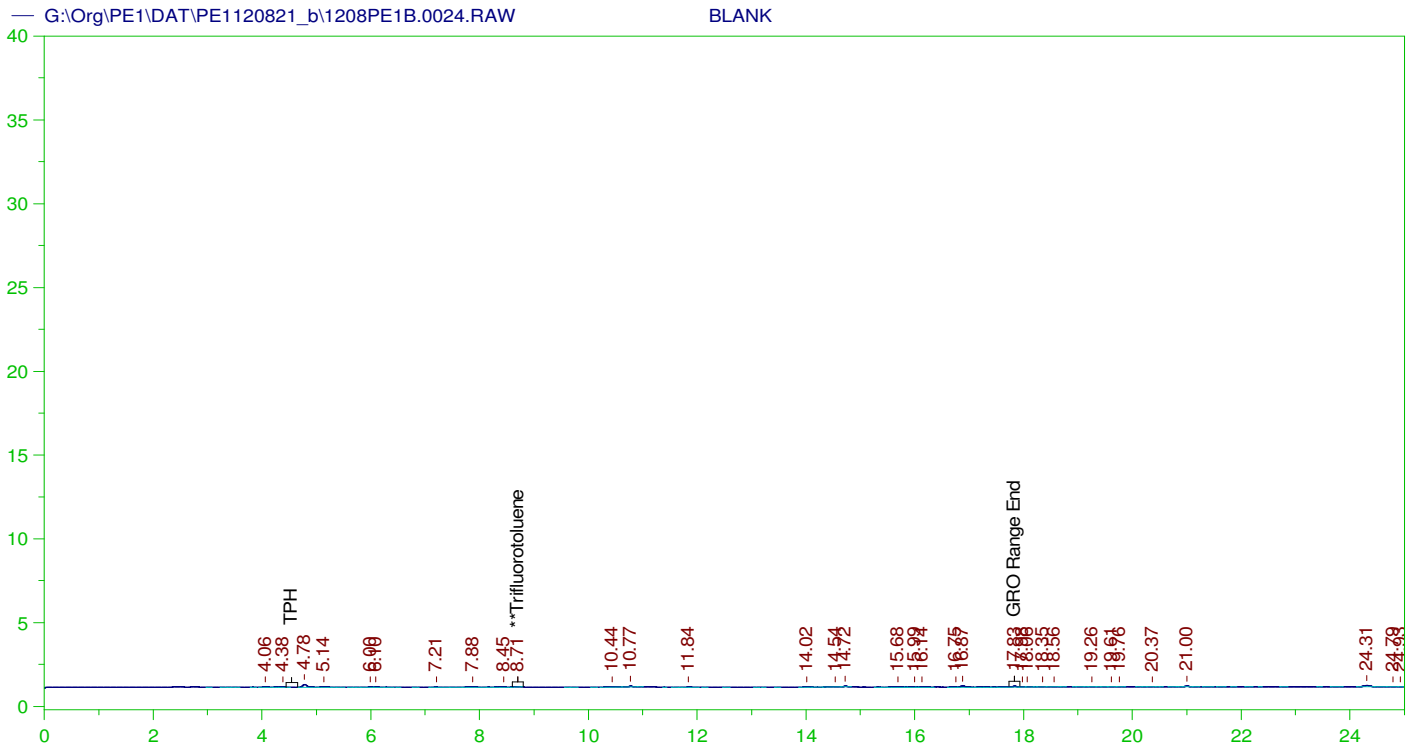
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

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



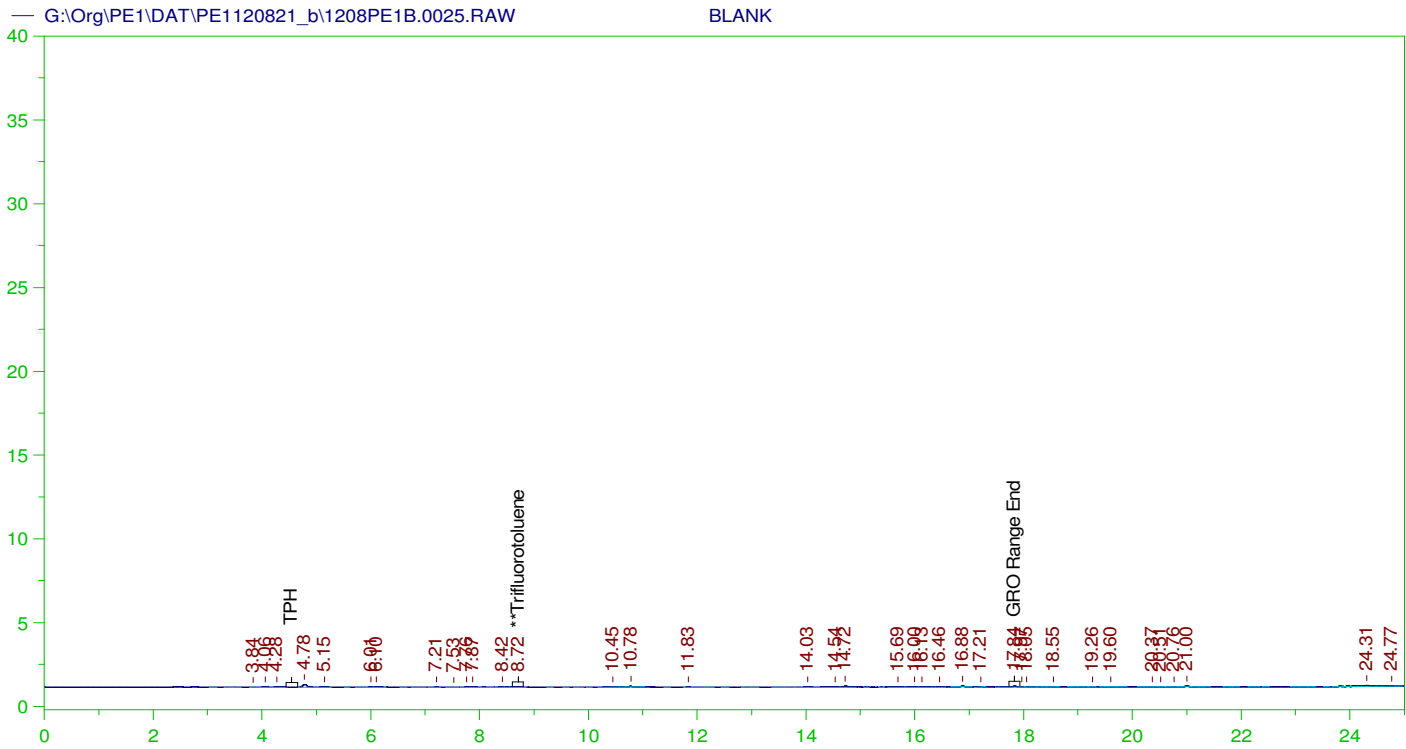
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

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



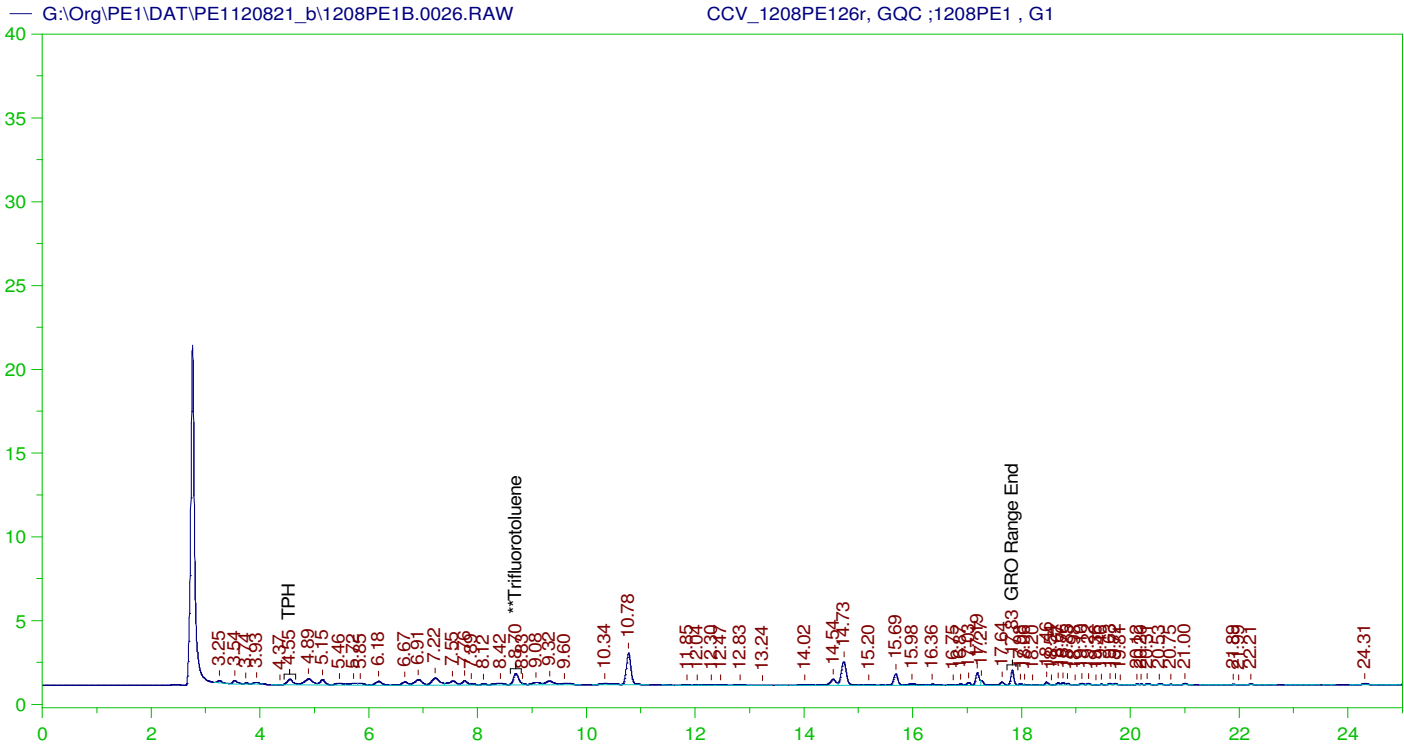
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

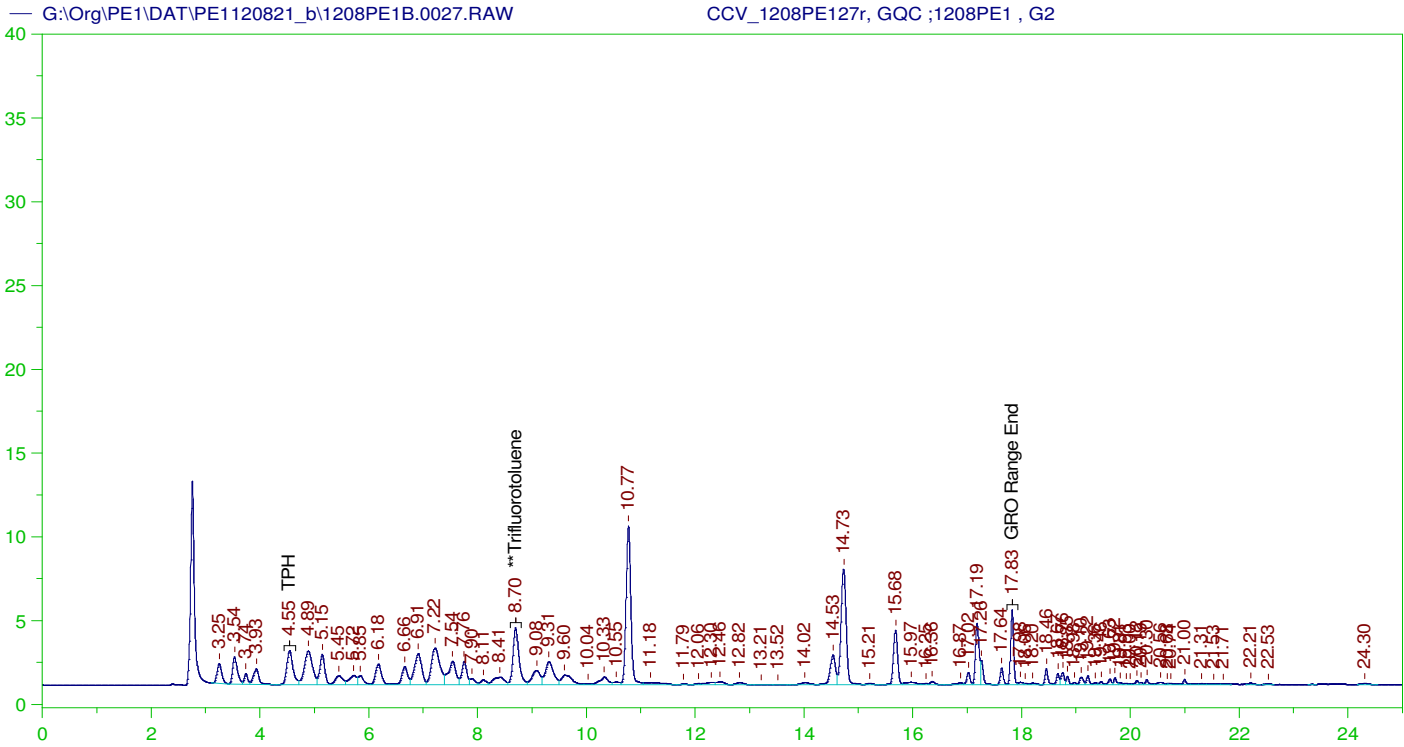
Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0025.RAW
 Date & Time Acquired: 12/9/2021 12:24:28 AM
 Method File: G:\Org\PE1\Methods\211208GROB.MET
 Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

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_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

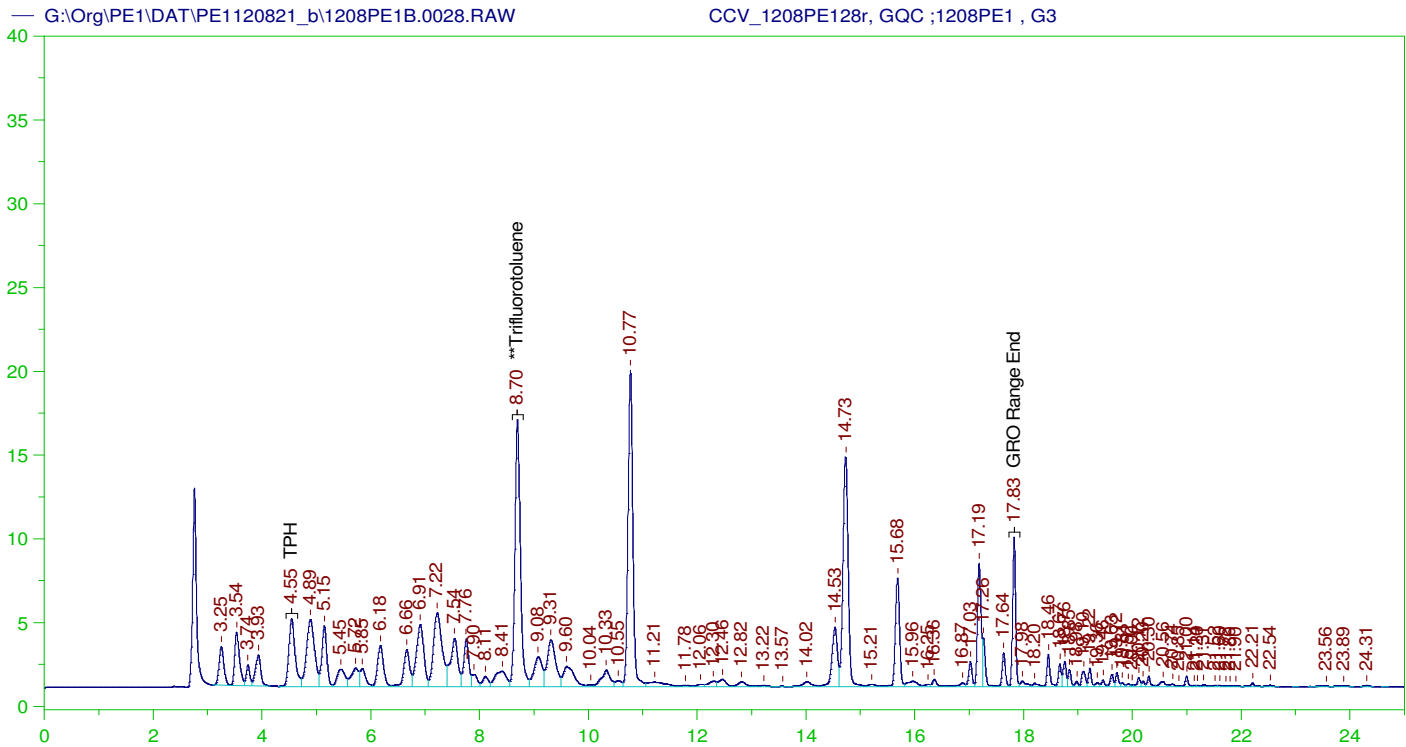
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.701	125.	27.92	22.34

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

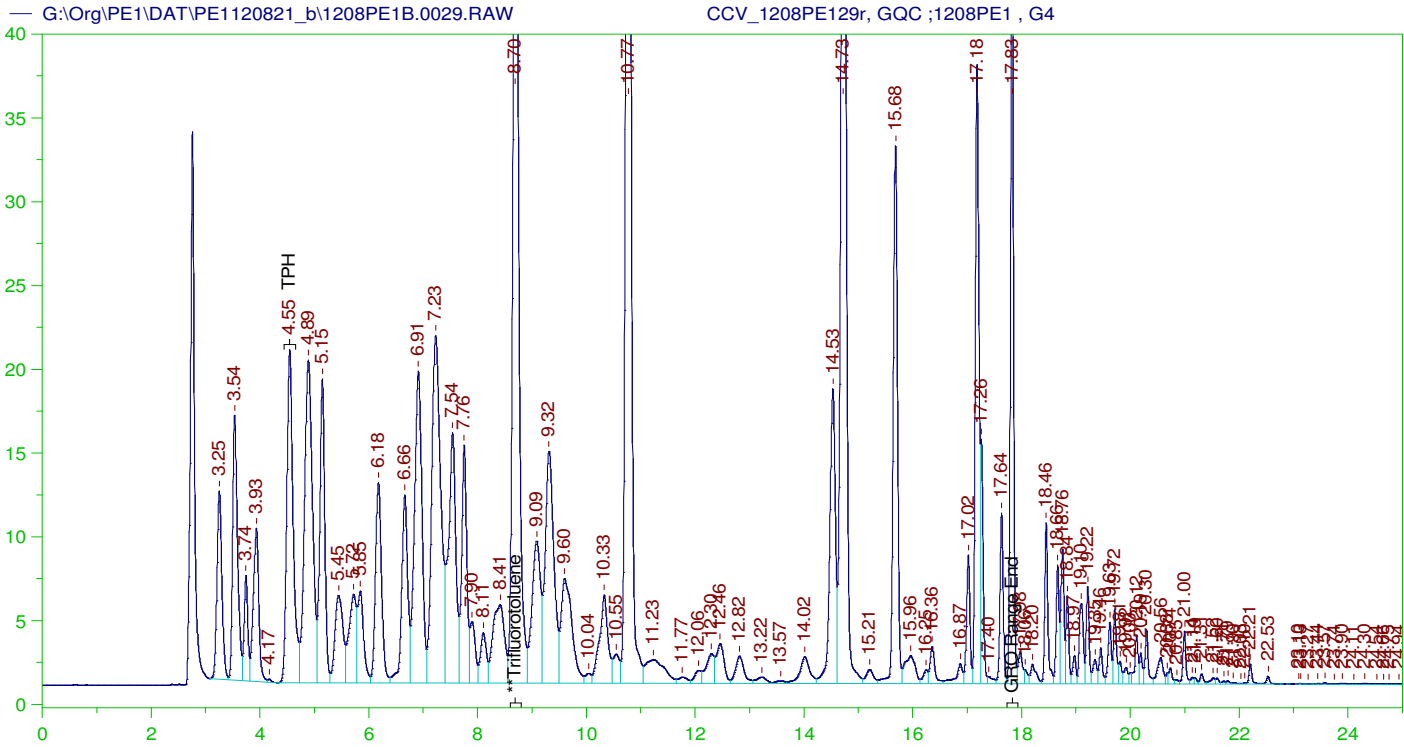
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.698	125.	117.121	93.7

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

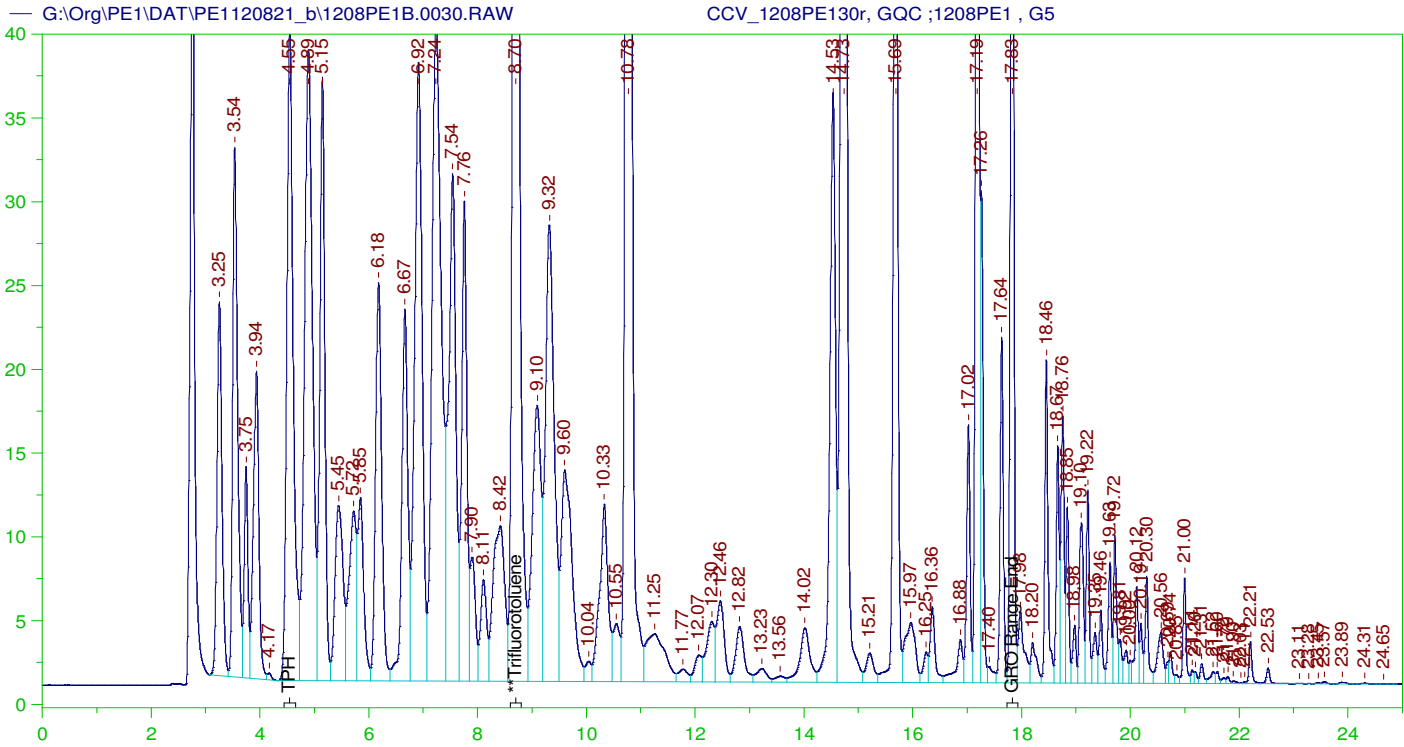
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.698	125.	466.523	373.22	-

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

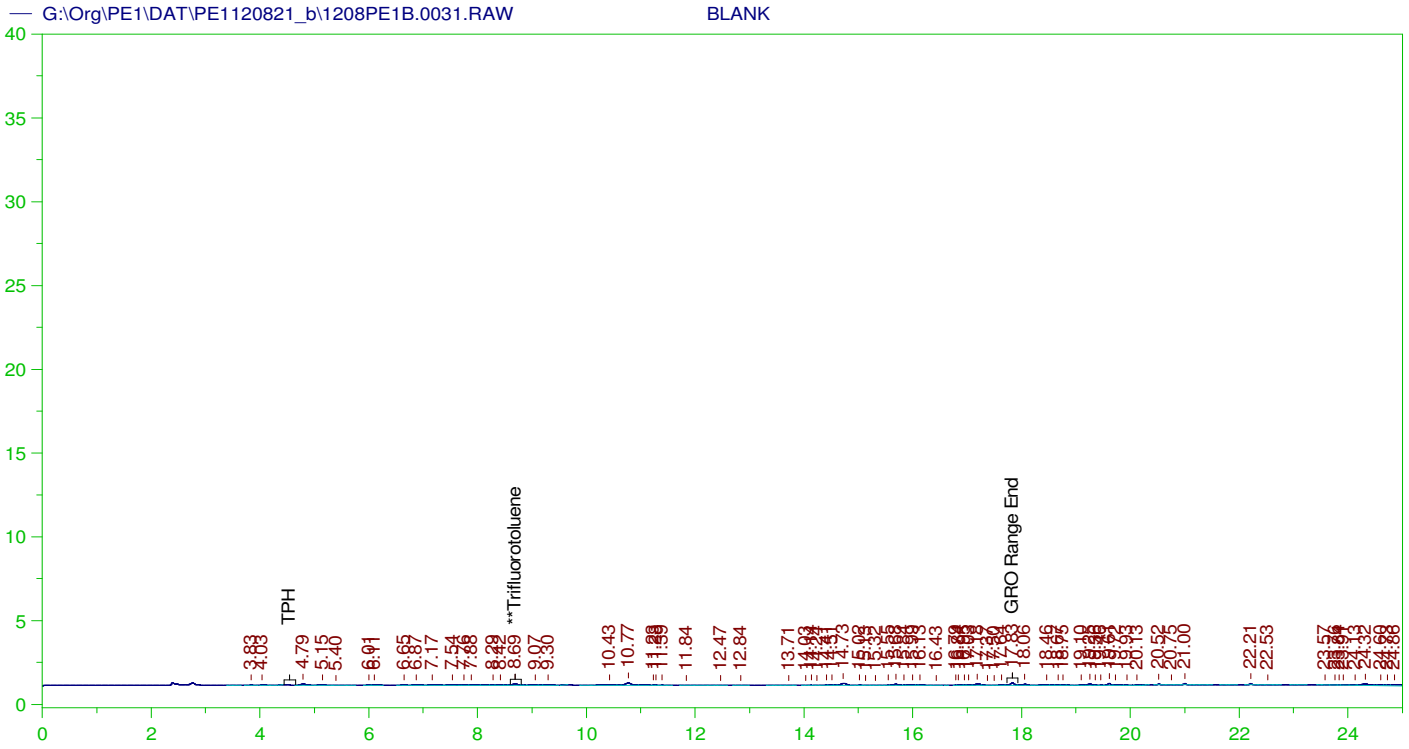
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.7	125.	950.451	760.36

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



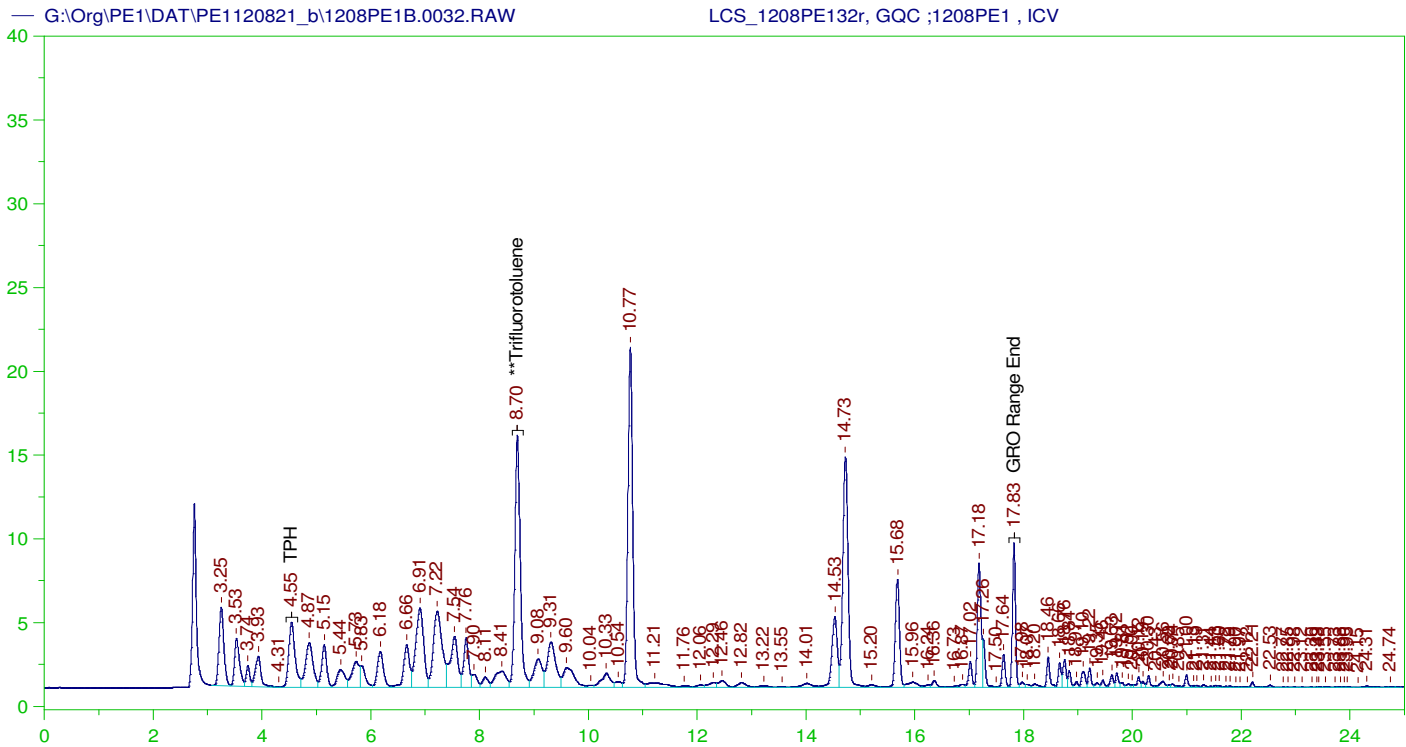
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

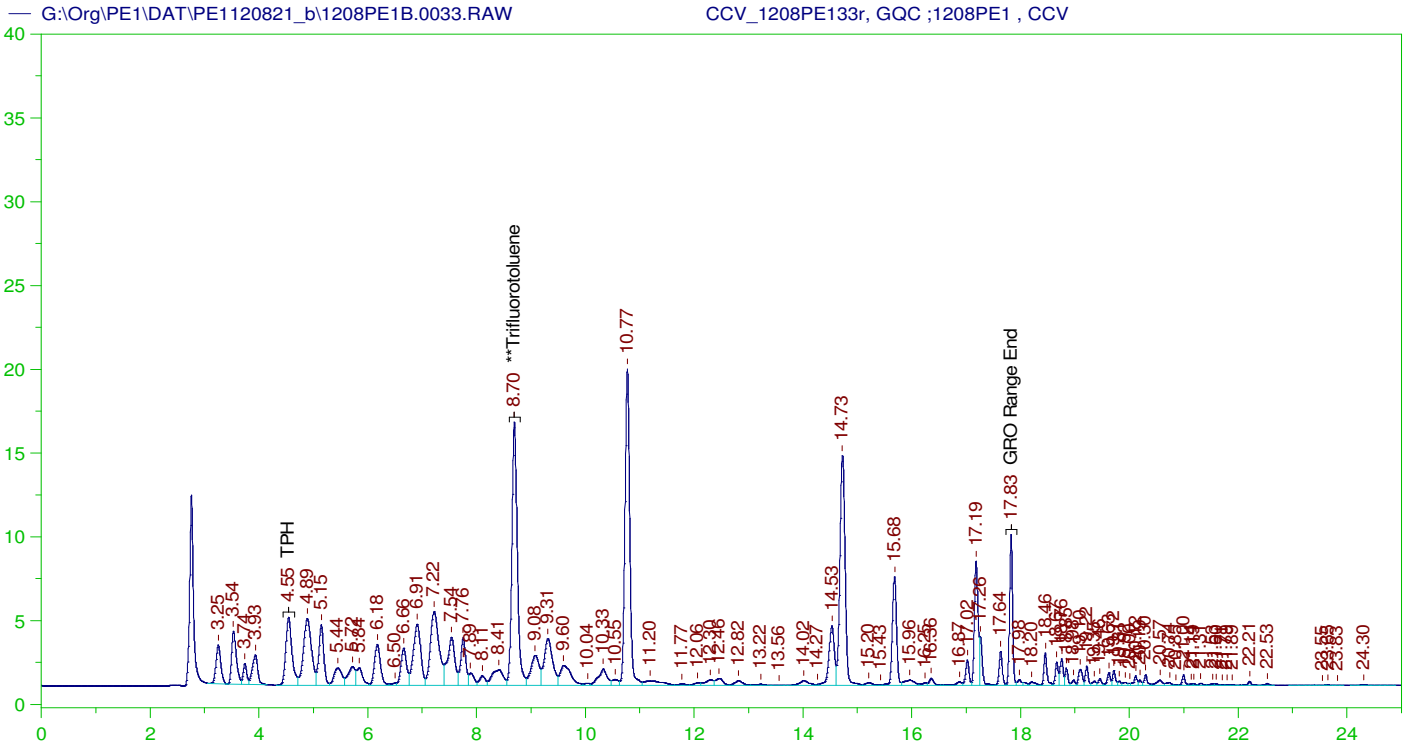
Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1120821_b\1208PE1B.0031.RAW
 Date & Time Acquired: 12/9/2021 3:54:35 AM
 Method File: G:\Org\PE1\Methods\211208GROB.MET
 Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

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: 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

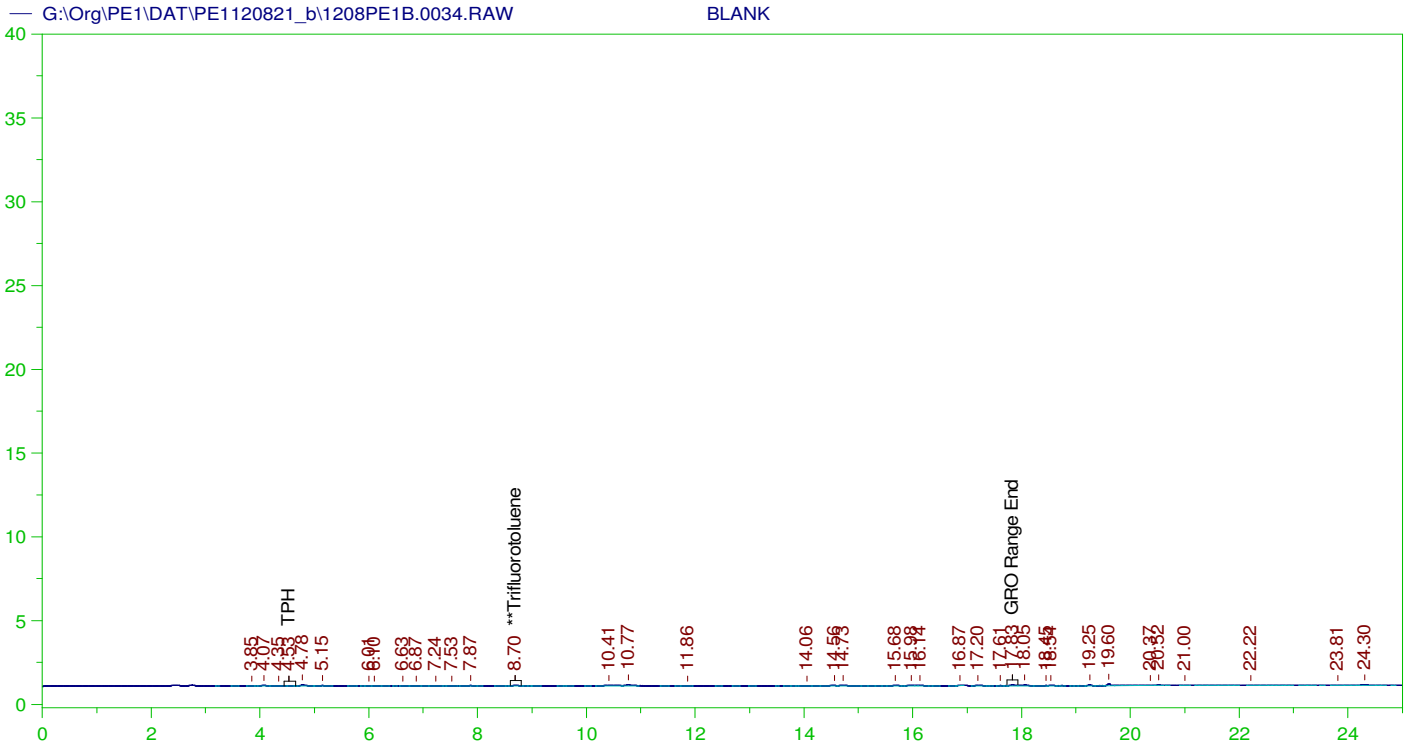
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.697	125.	116.009	92.81

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	Insert Entries(Have the first cell for entries selecter)	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
Data File	Sample Name							
G:\Org\PE1\DAT\PE1120821_b\1208PE1.22r	CCV_1208PE122r, GQC ;1208PE1 , 8015 Marker	G:\Org\PE1\Methods\211204	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.23r	BLANK	G:\Org\PE1\Methods\211204	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.24r	BLANK	G:\Org\PE1\Methods\211204	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.25r	BLANK	G:\Org\PE1\Methods\211204	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.26r	CCV_1208PE126r, GQC ;1208PE1 , G1	G:\Org\PE1\Methods\211204	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\211204	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\211204	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\211204	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\211204	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.31r	BLANK	G:\Org\PE1\Methods\211204	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1120821_b\1208PE1.32r	LCS_1208PE132r, GQC ;1208PE1 , ICV	G:\Org\PE1\Methods\211204	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\211204	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\211204	1	1	1	1	0	None

Josie M Pickard
Chemist

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

Energy Laboratories Inc

ANALYTICAL RUN Summary

04-Feb-22

Run ID PE 1_211230A

Run Start Date: 12/30/2021
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

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
TFT211227	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				
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14958510	CCV_1230PE10	HC-8015-GRO-	SAMP		12/30/2021 8:18:	1	R372587		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	220.3757	220.3757		0	0	0	2.32	20	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	220.3757	220.3757		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	229.8498	229.8498		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.82906	19.82906		25	0	0	0.0743	1	0	79%	70	130	0%	
GRO as Gasoline	X	ug/L	220.3757	220.3757		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				
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14958511	CCV_1230PE10	HC-8015-GRO-	CCV		12/30/2021 8:53:	1	R372587		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	155.1707	155.1707		168	0	0	2.32	20	0	92%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	155.1707	155.1707		168	0	0	2.32	20	0	92%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	184.5489	184.5489		200	0	0	3.56	20	0	92%	80	120	0%	
Trifluorotoluene	S	ug/L	22.2993	22.2993		25	0	0	0.0743	1	0	89%	80	120	0%	
GRO as Gasoline	X	ug/L	155.1707	155.1707		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					
14958511	CCV_1230PE10	HC-8015-GRO-	CCV		12/30/2021 8:53:	1	R372587		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					
14958512	LCS_1230PE10	HC-8015-GRO-	LCS		12/30/2021 9:27:	1	R372587		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	150.8875	150.8875		170	0	0	2.32	20	0	89%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	150.8875	150.8875		170	0	0	2.32	20	0	89%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	179.792	179.792		200	0	0	3.56	20	0	90%	70	130	0%	
Trifluorotoluene	S	ug/L	22.3411	22.3411		25	0	0	0.0743	1	0	89%	70	130	0%	
GRO as Gasoline	X	ug/L	150.8875	150.8875		170	0	0	2.32	20	0	89%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14958513	MBLK_1230PE	HC-8015-GRO-	MBLK		12/30/2021 10:0	1	R372587		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	19.53914	19.53914		25	0	0	0.0743	1	0	78%	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					
14958514	B21122090-003	HC-8015-GRO-	SAMP		12/30/2021 10:3	1	R372587		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	18.97758	18.97758		25	0	0	0.0743	1	0	76%	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					
14958515	B21122105-003	HC-8015-GRO-	SAMP		12/30/2021 11:0	1	R372587		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	19.71354	19.71354		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					
14958516	B21122090-001	HC-8015-GRO-	SAMP		12/30/2021 11:4	1	R372587		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	288.2546	288.2546		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.22555	19.22555		25	0	0	0.0743	1	0	77%	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					
14958517	B21122105-001	HC-8015-GRO-	SAMP		12/30/2021 12:5	1	R372587		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	19.52278	19.52278		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					
14958519	B21122105-001	HC-8015-GRO-	MS		12/30/2021 2:01:	1	R372587		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	152.1865	152.1865		170	0	0	2.32	20	0	90%	78	122	0%	
Gasoline Range Organics (GRO)	A	ug/L	152.1865	152.1865		170	0	0	2.32	20	0	90%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	182.5542	182.5542		200	0	0	3.56	20	0	91%	70	130	0%	
Trifluorotoluene	S	ug/L	21.51406	21.51406		25	0	0	0.0743	1	0	86%	70	130	0%	

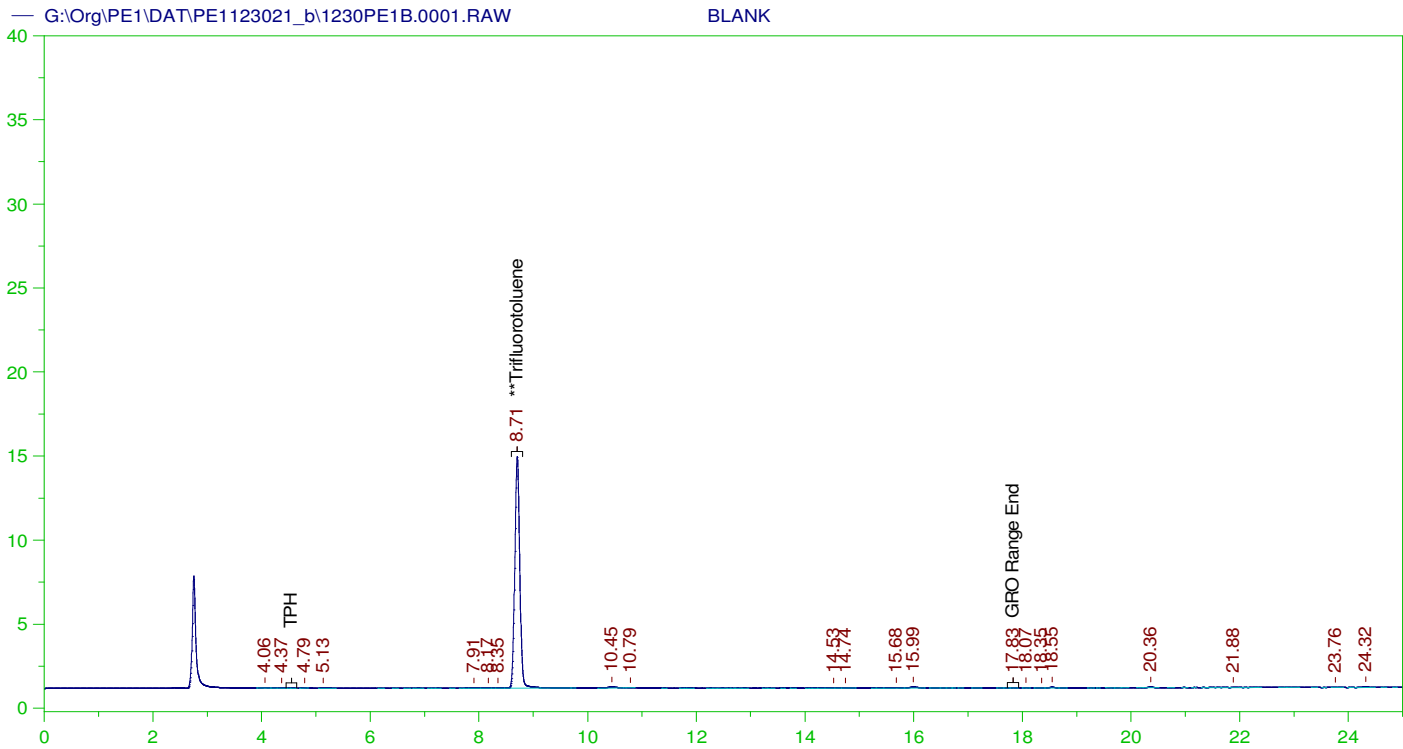
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14958519	B21122105-001	HC-8015-GRO-	MS		12/30/2021 2:01:	1	R372587		1E+07	0						
Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
GRO as Gasoline	X	ug/L	152.1865	152.1865		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					
14958520	B21122105-001	HC-8015-GRO-	MSD		12/30/2021 2:35:	1	R372587		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	155.3177	155.3177		170	0	152.1865	2.32	20	0	91%	78	122	2%	
Gasoline Range Organics (GRO)	A	ug/L	155.3177	155.3177		170	0	152.1865	2.32	20	0	91%	70	130	2%	
Total Purgeable Hydrocarbons	A	ug/L	185.5141	185.5141		200	0	182.5542	3.56	20	0	93%	70	130	2%	
Trifluorotoluene	S	ug/L	21.94778	21.94778		25	0	0	0.0743	1	0	88%	70	130	0%	
GRO as Gasoline	X	ug/L	155.3177	155.3177		0	0	152.1865	2.32	20	0	0%	0	0	2%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14958521	CCV_1230PE11	HC-8015-GRO-	SAMP		12/30/2021 3:43:	1	R372587			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	222.9428	222.9428		0	0	0	2.32	20	0	0%	0	0	0%	
Gasoline Range Organics (GRO)	A	ug/L	222.9428	222.9428		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	232.4881	232.4881		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.56797	19.56797		25	0	0	0.0743	1	0	78%	70	130	0%	
GRO as Gasoline	X	ug/L	222.9428	222.9428		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					
14958522	CCV_1230PE11	HC-8015-GRO-	CCV		12/30/2021 4:18:	1	R372587			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	152.2594	152.2594		168	0	0	2.32	20	0	91%	80	120	0%	
Gasoline Range Organics (GRO)	A	ug/L	152.2594	152.2594		168	0	0	2.32	20	0	91%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	180.7311	180.7311		200	0	0	3.56	20	0	90%	80	120	0%	
Trifluorotoluene	S	ug/L	22.36437	22.36437		25	0	0	0.0743	1	0	89%	80	120	0%	
GRO as Gasoline	X	ug/L	152.2594	152.2594		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					
14958523	LCS_1230PE11	HC-8015-GRO-	LCS		12/30/2021 4:52:	1	R372587		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	153.1322	153.1322		170	0	0	2.32	20	0	90%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	183.1684	183.1684		200	0	0	3.56	20	0	92%	70	130	0%	
Trifluorotoluene	S	ug/L	22.00008	22.00008		25	0	0	0.0743	1	0	88%	70	130	0%	
GRO as Gasoline	X	ug/L	153.1322	153.1322		170	0	0	2.32	20	0	90%	70	130	0%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14958524	MBLK_1230PE	HC-8015-GRO-	MBLK		12/30/2021 5:26:	1	R372587		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	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.53677	19.53677		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%	
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist					
14958525	B21122112-001	HC-8015-GRO-	SAMP		12/30/2021 6:01:	50	R372587		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	124.46034	6223.017		0	0	0	116	1000	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	161.75262	8087.631		0	0	0	178	1000	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.840716	992.0358		1250	0	0	3.715	50	0	79%	70	130	0%	
GRO as Gasoline	X	ug/L	124.46034	6223.017		0	0	0	116	1000	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					
14958526	B21122114-001	HC-8015-GRO-	SAMP		12/30/2021 7:09:	200	R372587		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	143.4914	28698.28		0	0	0	464	4000	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	168.0418	33608.36		0	0	0	712	4000	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.506675	3901.335		5000	0	0	14.86	200	0	78%	70	130	0%	
GRO as Gasoline	X	ug/L	143.4914	28698.28		0	0	0	464	4000	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					
14958527	CCV_1230PE12	HC-8015-GRO-	SAMP		12/30/2021 8:18:	1	R372587		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	216.3664	216.3664		0	0	0	2.32	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	225.6791	225.6791		0	0	0	3.56	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.11443	19.11443		25	0	0	0.0743	1	0	76%	70	130	0%	
GRO as Gasoline	X	ug/L	216.3664	216.3664		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					
14958528	CCV_1230PE12	HC-8015-GRO-	CCV		12/30/2021 8:52:	1	R372587		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	151.5154	151.5154		168	0	0	2.32	20	0	90%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	180.3354	180.3354		200	0	0	3.56	20	0	90%	80	120	0%	
Trifluorotoluene	S	ug/L	21.67848	21.67848		25	0	0	0.0743	1	0	87%	80	120	0%	
GRO as Gasoline	X	ug/L	151.5154	151.5154		0	0	0	2.32	20	0	0%	0	0	0%	

Data File	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID
G:\Org\PE1\DAT\PE1123021_b\1230PE1.01r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.02r	CCV_1230PE102r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.03r	CCV_1230PE103r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.04r	LCS_1230PE104r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.05r	MBLK_1230PE105r, QC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.06r	B21122090-003A ;1230PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.07r	B21122105-003A ;1230PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.08r	B21122090-001F ;1230PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.09r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.10r	B21122105-001F ;1230PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.11r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.12r	B21122105-001FMS, GQC ;1230PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.13r	B21122105-001FMSD, GQC ;1230PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.14r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.15r	CCV_1230PE115r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.16r	CCV_1230PE116r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.17r	LCS_1230PE117r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.18r	MBLK_1230PE118r, QC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.19r	B21122112-001F ;1230PE1 , \$HC-8015-GRO-W,,(1,50)	G:\Org\PE1\Methods\21120	5	50	1	50	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.20r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.21r	B21122114-001F ;1230PE1 , \$HC-8015-GRO-W,,(1,200)	G:\Org\PE1\Methods\21120	5	200	1	200	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.22r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.23r	CCV_1230PE123r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
G:\Org\PE1\DAT\PE1123021_b\1230PE1.24r	CCV_1230PE124r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0
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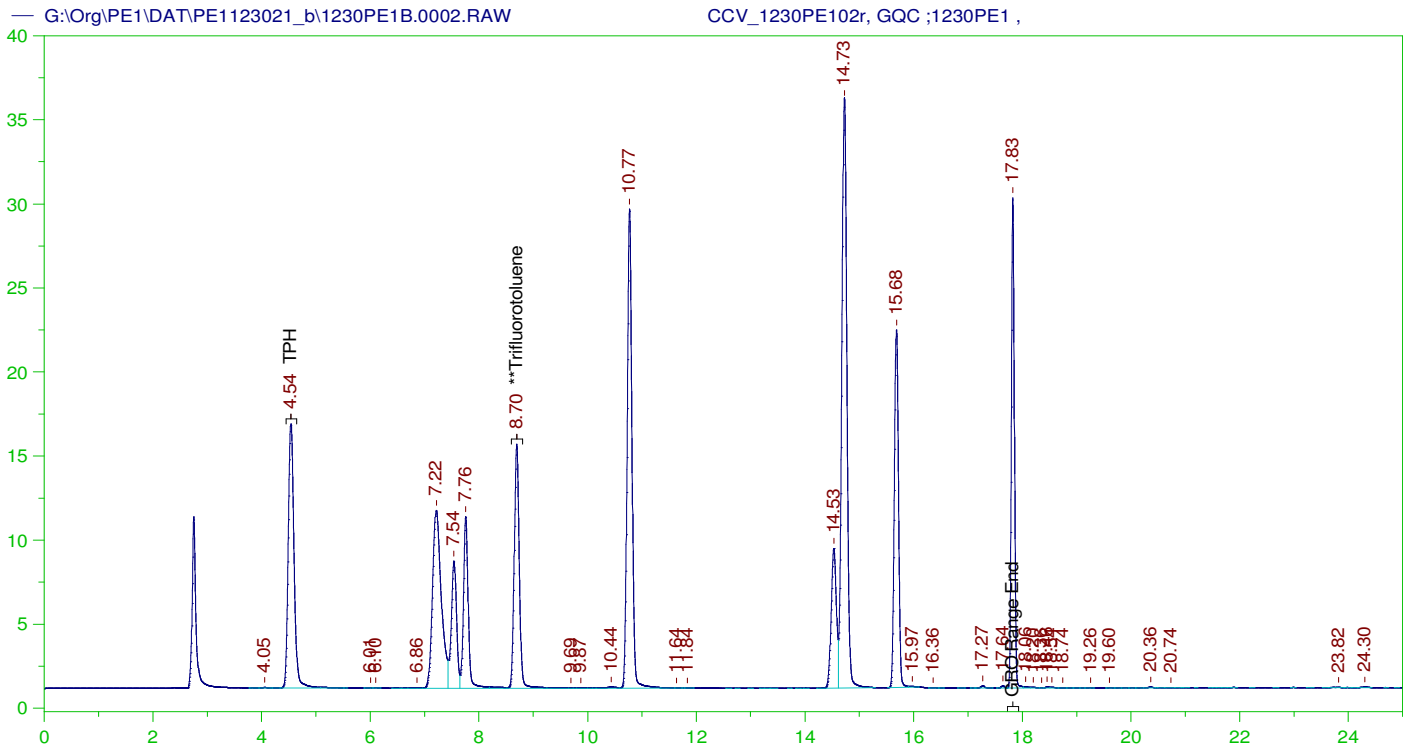
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0001.RAW
 Date & Time Acquired: 12/30/2021 7:44:47 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	8.705	125.	93.565	74.85

GRO Area:3126.667 GRO Amount: 3.305257
 TPH Area:4933.914 TPH Amount: 5.425511



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1230PE102r, GQC ;1230PE1 ,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0002.RAW
Date & Time Acquired: 12/30/2021 8:18:54 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

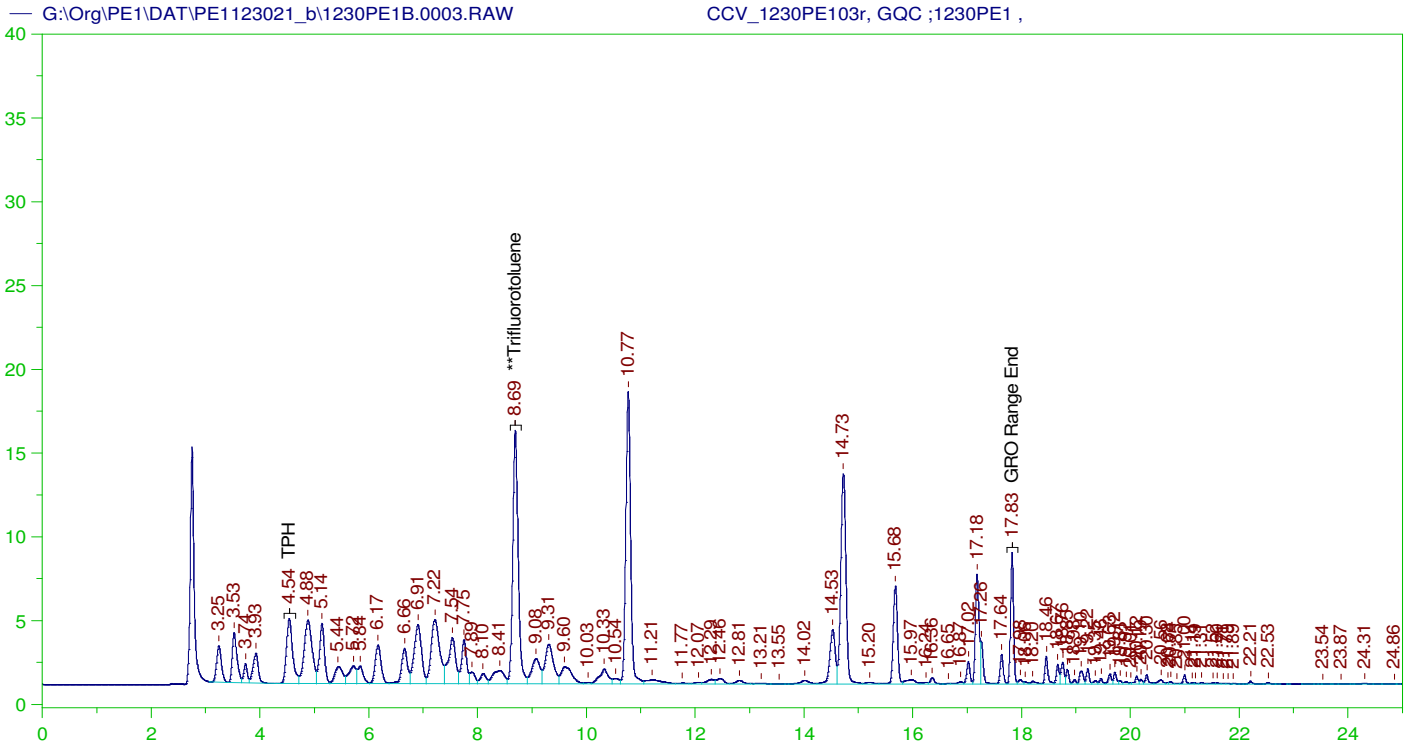
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.695	125.	99.145	79.32	-

GRO Area:1042342 GRO Amount: 1101.879
TPH Area:1045117 TPH Amount: 1149.249

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0002.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1101.88	131.18	85-115
TPH	1000.	1149.25	114.92	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.695	125.	99.145	79.32	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1230PE103r, GQC ;1230PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0003.RAW
 Date & Time Acquired: 12/30/2021 8:53:03 AM
 Method File: G:\Org\PE1\Methods\211208GCCV1230_03B%.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

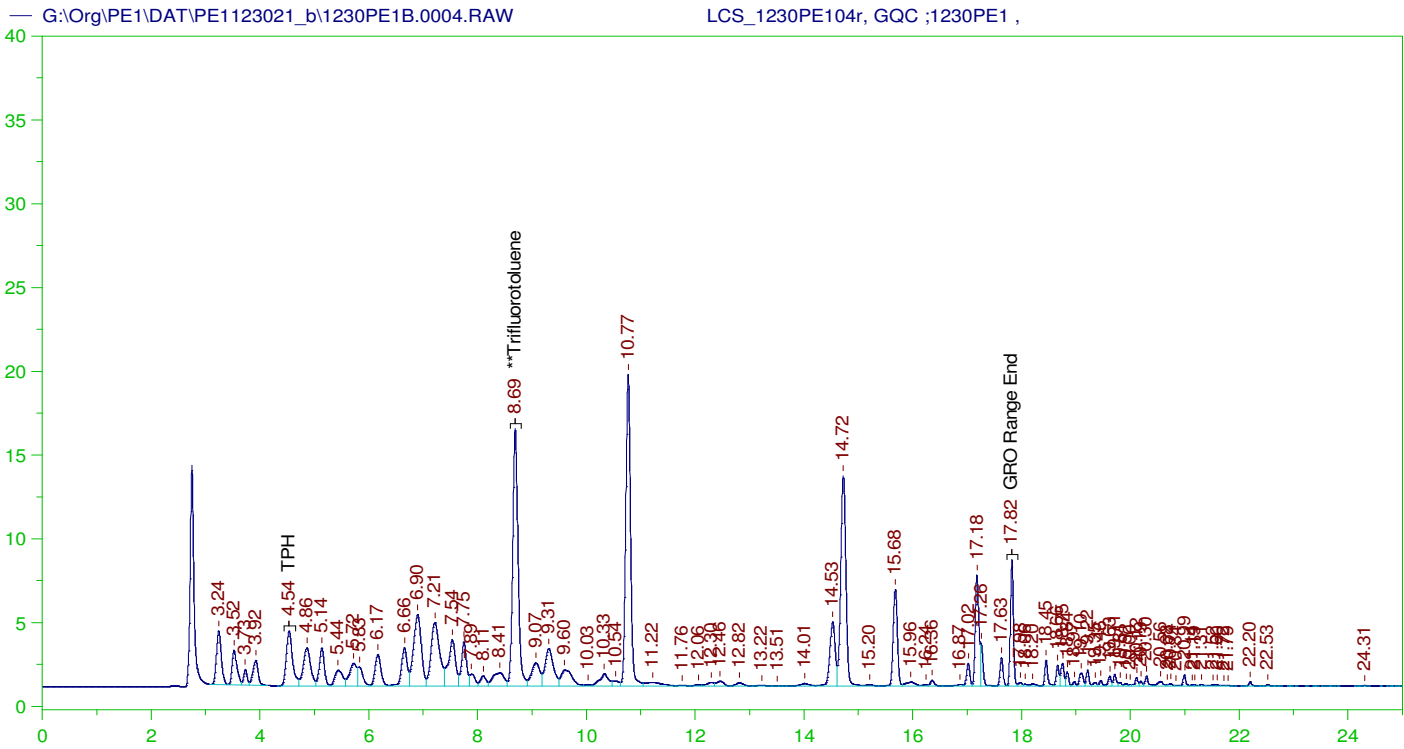
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.695	125.	111.497	89.2

GRO Area:733932.2 GRO Amount: 775.8533
 TPH Area:839136.1 TPH Amount: 922.7446

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0003.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	775.85	92.36	85-115
TPH	1000.	922.74	92.27	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.695	125.	111.497	89.2	85-115



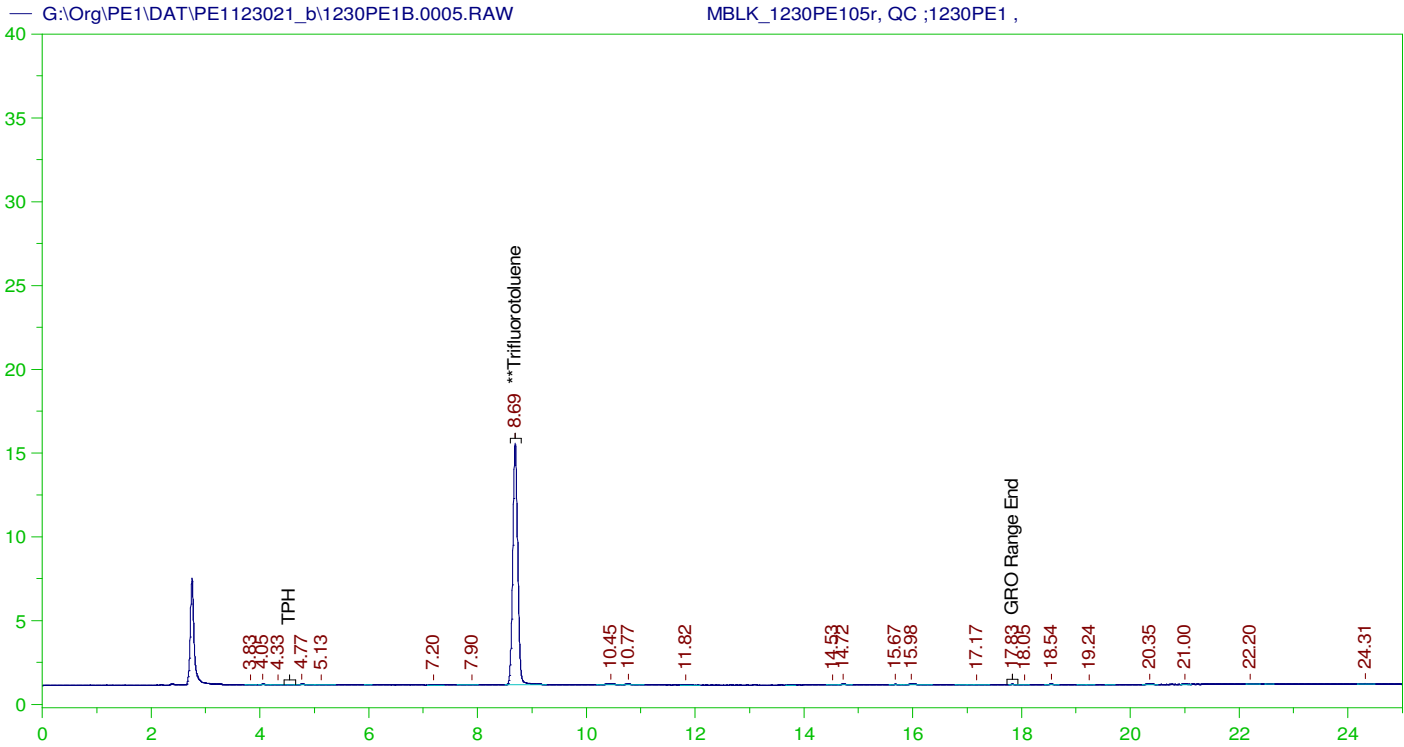
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_1230PE104r, GQC ;1230PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0004.RAW
 Date & Time Acquired: 12/30/2021 9:27:14 AM
 Method File: G:\Org\PE1\Methods\211208GLCS1230_04B%.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	8.693	25.	22.341	89.36

GRO Area:713673.8 GRO Amount: 150.8875
 TPH Area:817506.6 TPH Amount: 179.792



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_1230PE105r, QC ;1230PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0005.RAW
 Date & Time Acquired: 12/30/2021 10:01:27 AM
 Method File: G:\Org\PE1\Methods\211208GMB1230_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

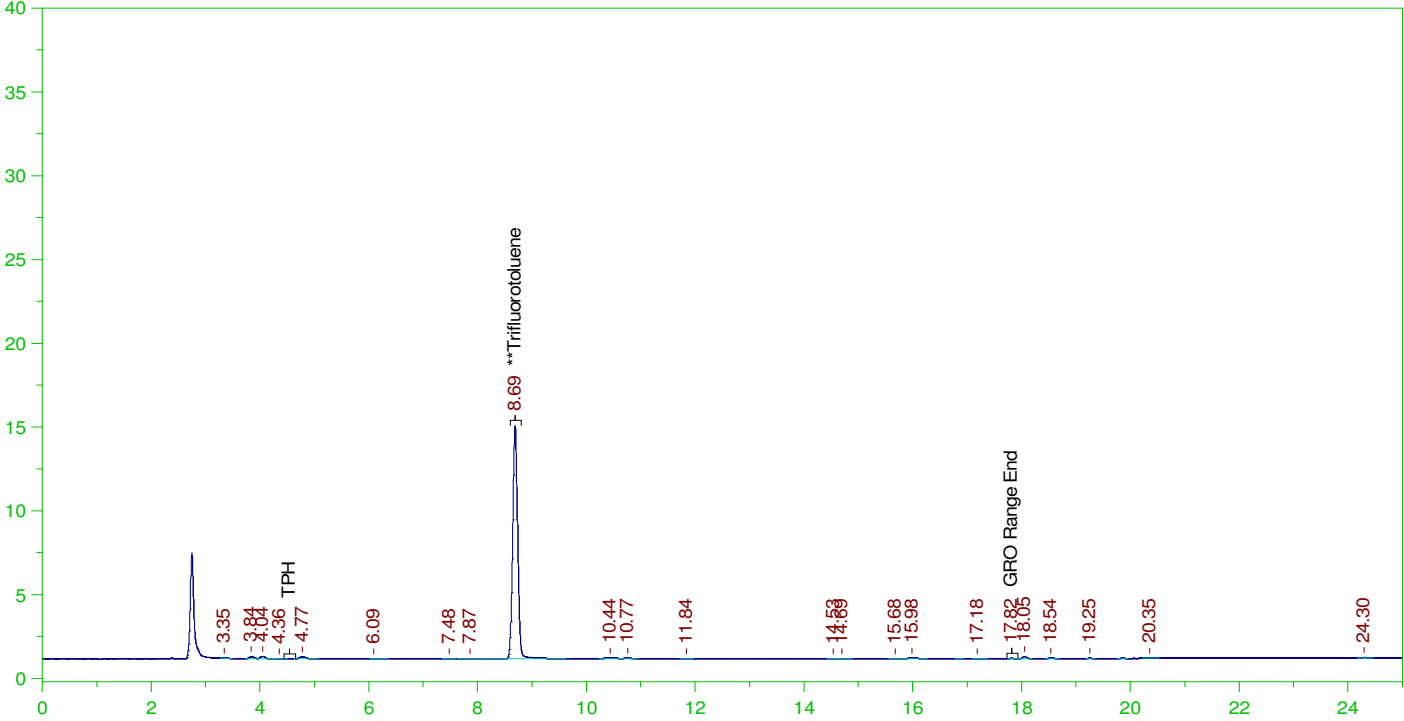
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.693	25.	19.539	78.16

GRO Area:3561.437 GRO Amount: 0.7529721
 TPH Area:5025.622 TPH Amount: 1.105271

ERH2257 Client Trip Blank

G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0006.RAW

B21122090-003A ;1230PE1 , \$HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122090-003A ;1230PE1 , \$HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0006.RAW
Date & Time Acquired: 12/30/2021 10:35:40 AM
Method File: G:\Org\PE1\Methods\211208G1290-3B%.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

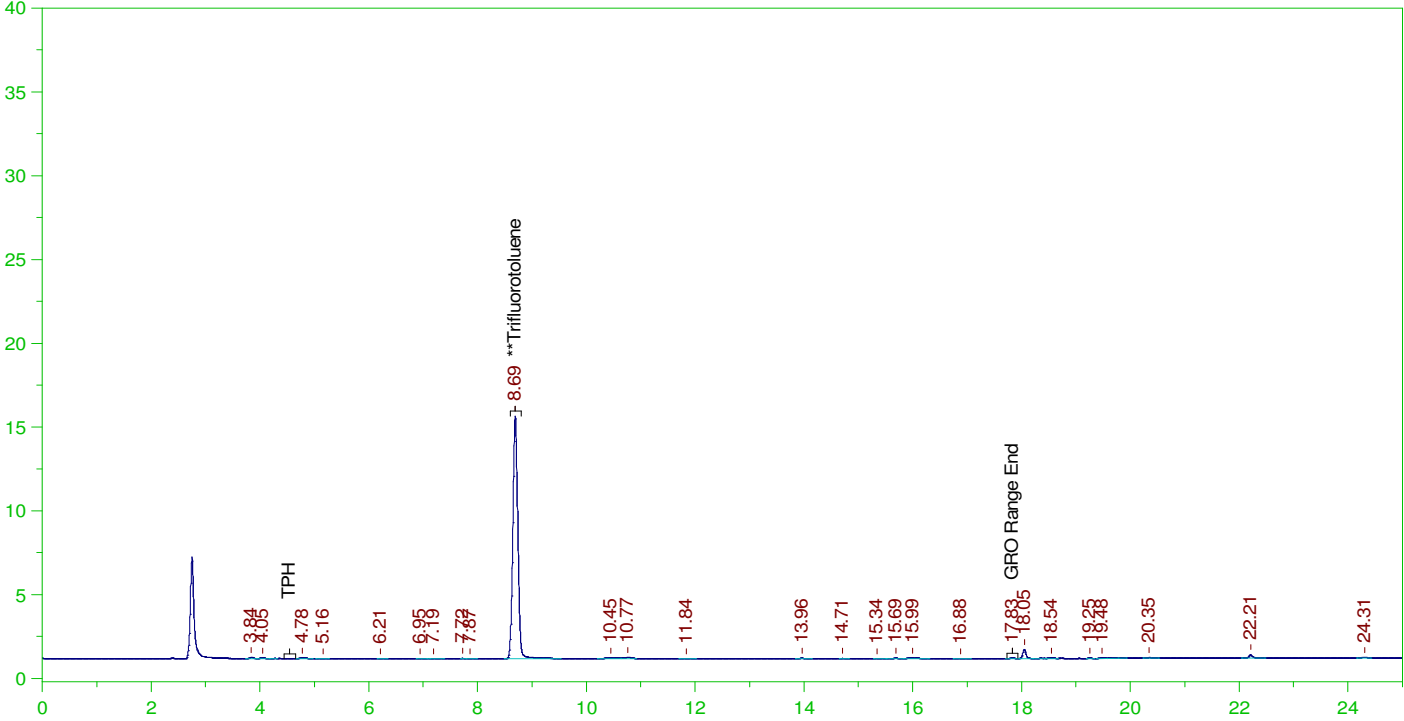
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.691	25.	18.978	75.91

GRO Area:3439.82 GRO Amount: 0.7272595
TPH Area:6524.58 TPH Amount: 1.434933

ERH2248 Trip Blank-14575

G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0007.RAW

B21122105-003A ;1230PE1 , \$HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122105-003A ;1230PE1 , \$HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0007.RAW
Date & Time Acquired: 12/30/2021 11:09:54 AM
Method File: G:\Org\PE1\Methods\211208G2105-3B%.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

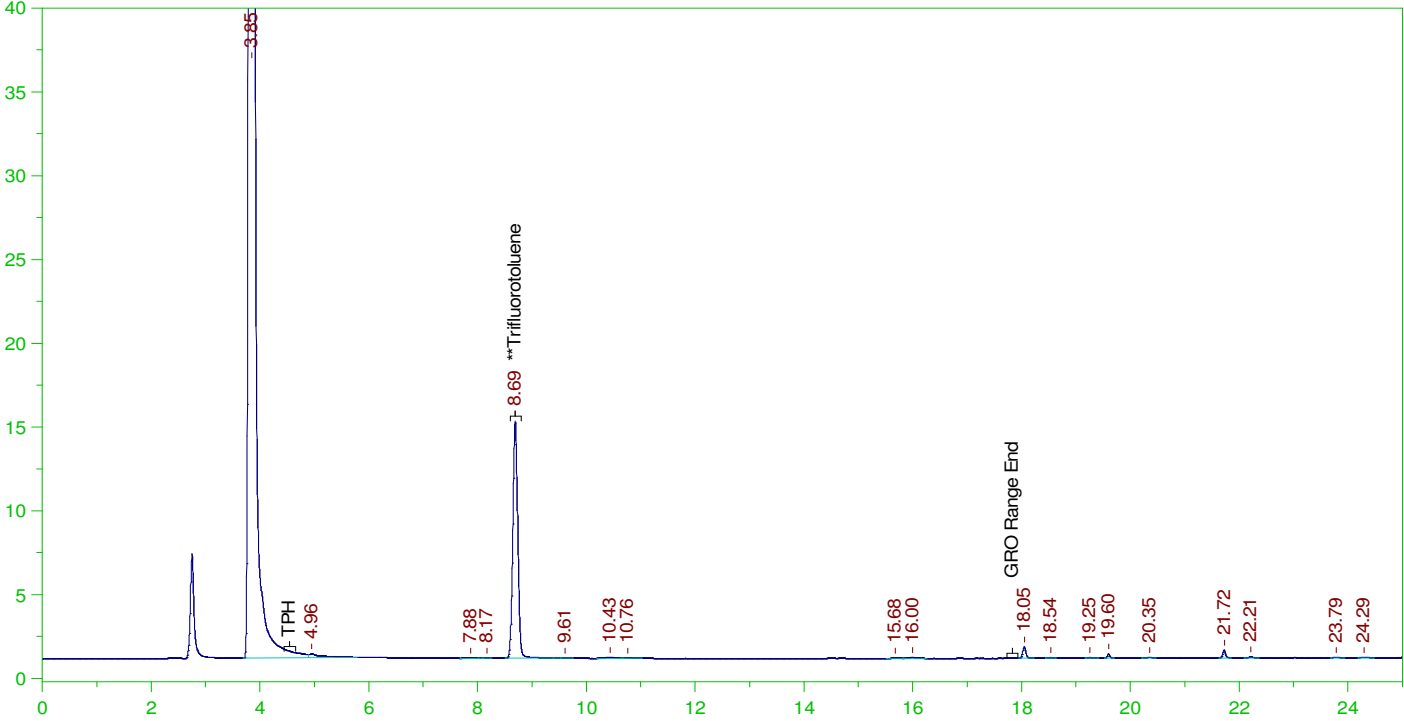
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.694	25.	19.714	78.85

GRO Area:3529.65 GRO Amount: 0.7462517
TPH Area:8265.615 TPH Amount: 1.817834

ERH2256 (RHMW13 Zone 5)

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B21122090-001F ;1230PE1 , \$HC-8015-GRO-W,



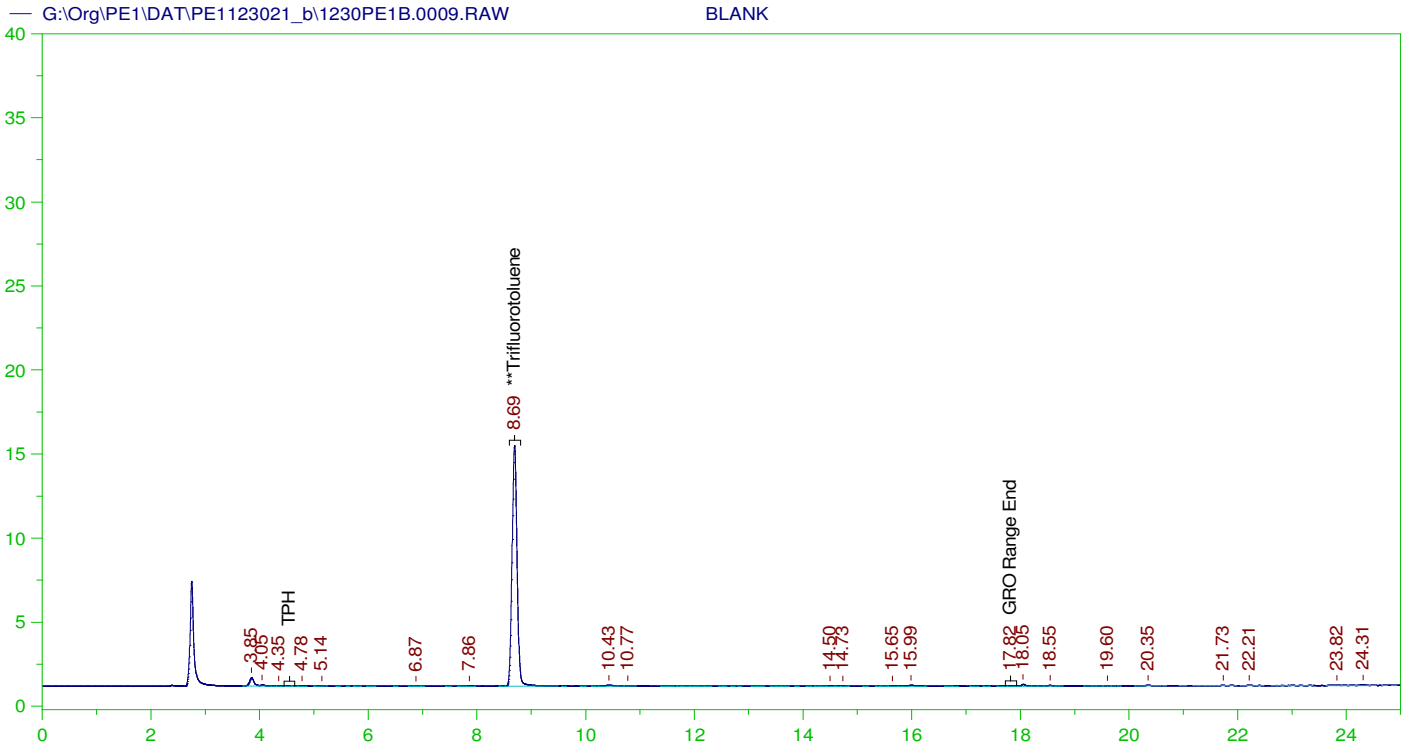
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122090-001F ;1230PE1 , \$HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0008.RAW
Date & Time Acquired: 12/30/2021 11:44:09 AM
Method File: G:\Org\PE1\Methods\211208G2090-1B%.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	8.693	25.	19.226	76.9

GRO Area:6658.807 GRO Amount: 1.40783
TPH Area:1310681 TPH Amount: 288.2546



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0009.RAW
 Date & Time Acquired: 12/30/2021 12:18:31 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

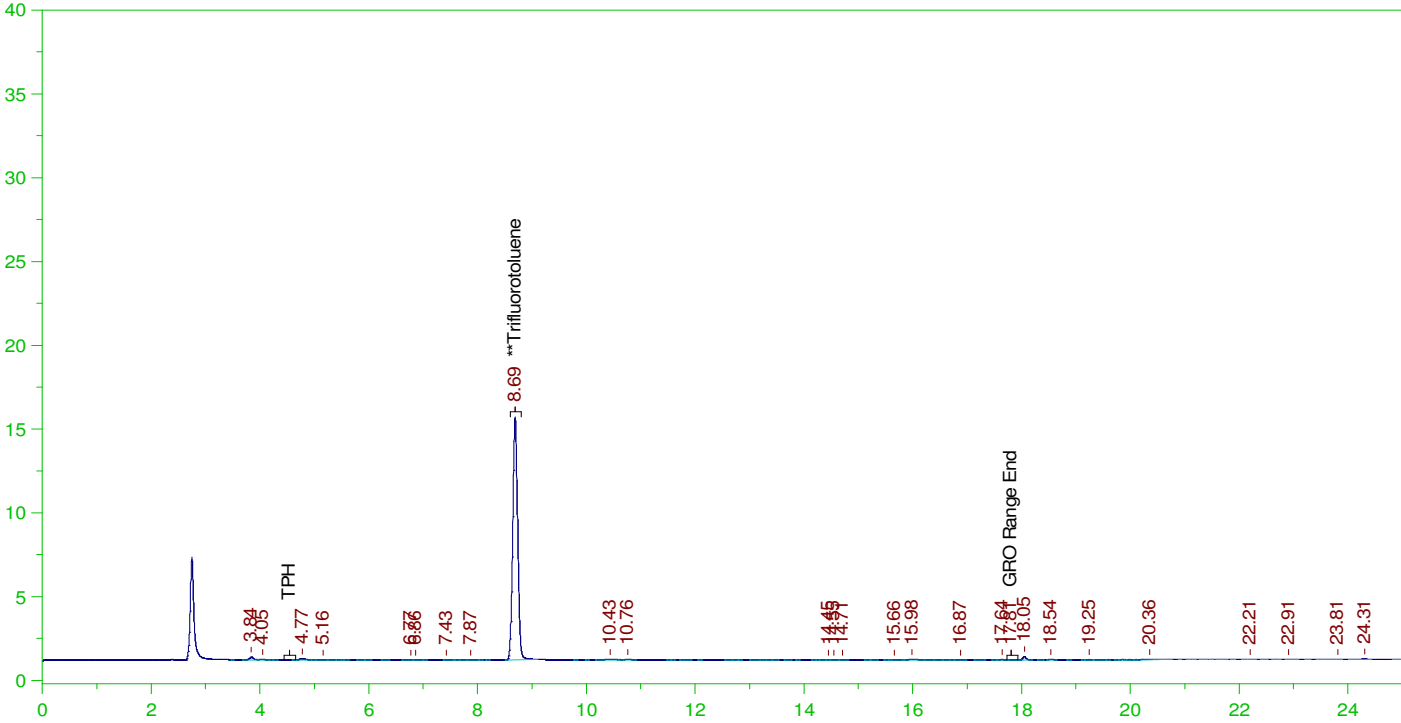
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.692	125.	97.541	78.03

GRO Area:2773.888 GRO Amount: 2.932328
 TPH Area:8452.663 TPH Amount: 9.294856

ERH2249 (RHMW12A)

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B21122105-001F ;1230PE1 , \$HC-8015-GRO-W,



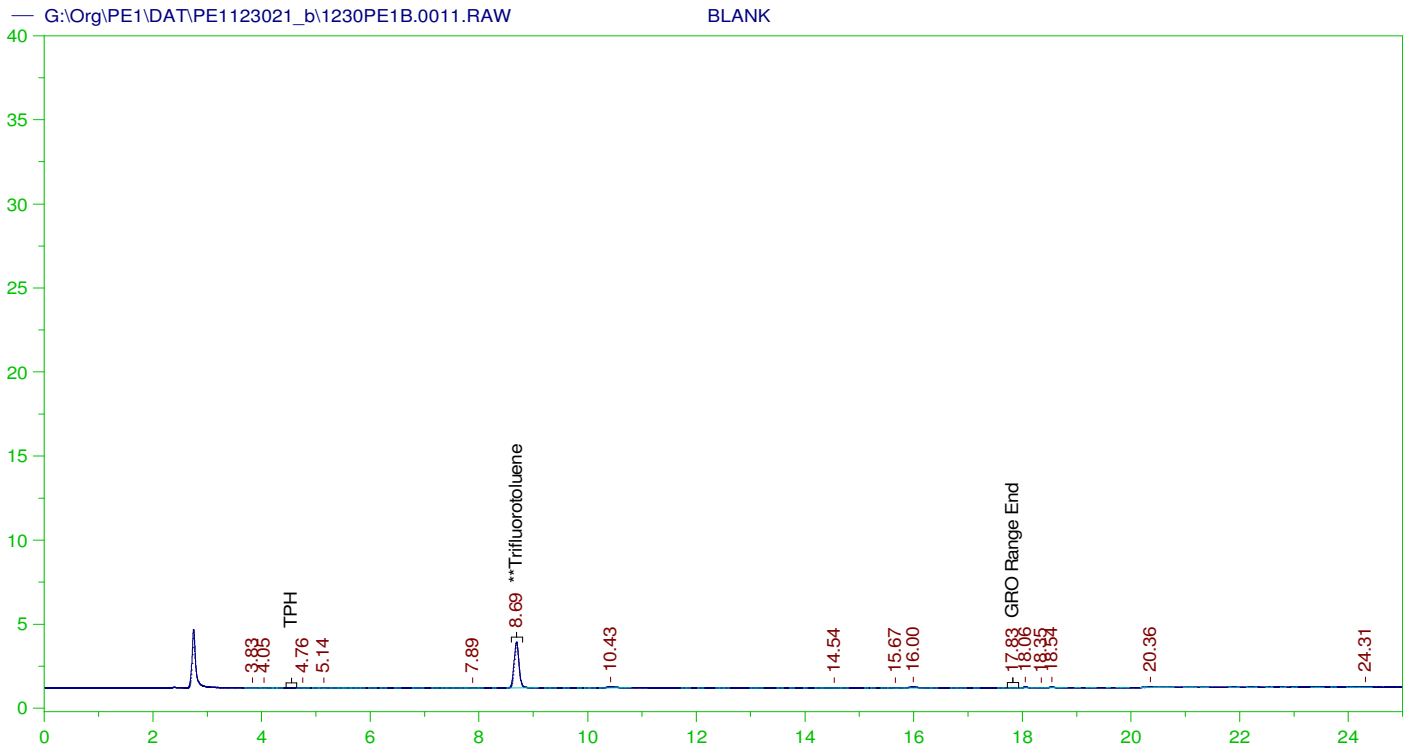
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122105-001F ;1230PE1 , \$HC-8015-GRO-W,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0010.RAW
Date & Time Acquired: 12/30/2021 12:52:52 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	8.692	25.	19.523	78.09

GRO Area:4283.616 GRO Amount: 0.9056579
TPH Area:8010.968 TPH Amount: 1.76183



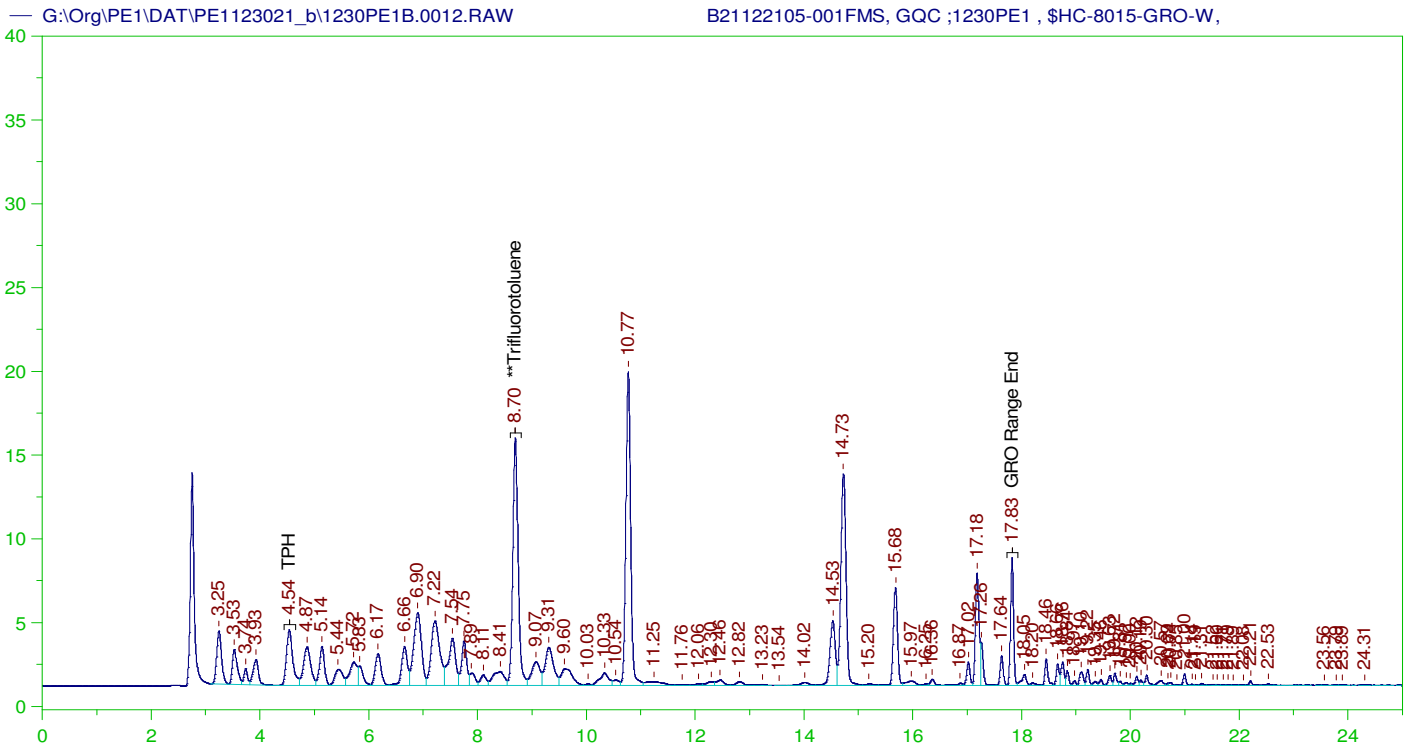
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0011.RAW
 Date & Time Acquired: 12/30/2021 1:27:02 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	8.691	125.	18.29	14.63

GRO Area: 2873.473 GRO Amount: 3.037602
 TPH Area: 4545.766 TPH Amount: 4.99869



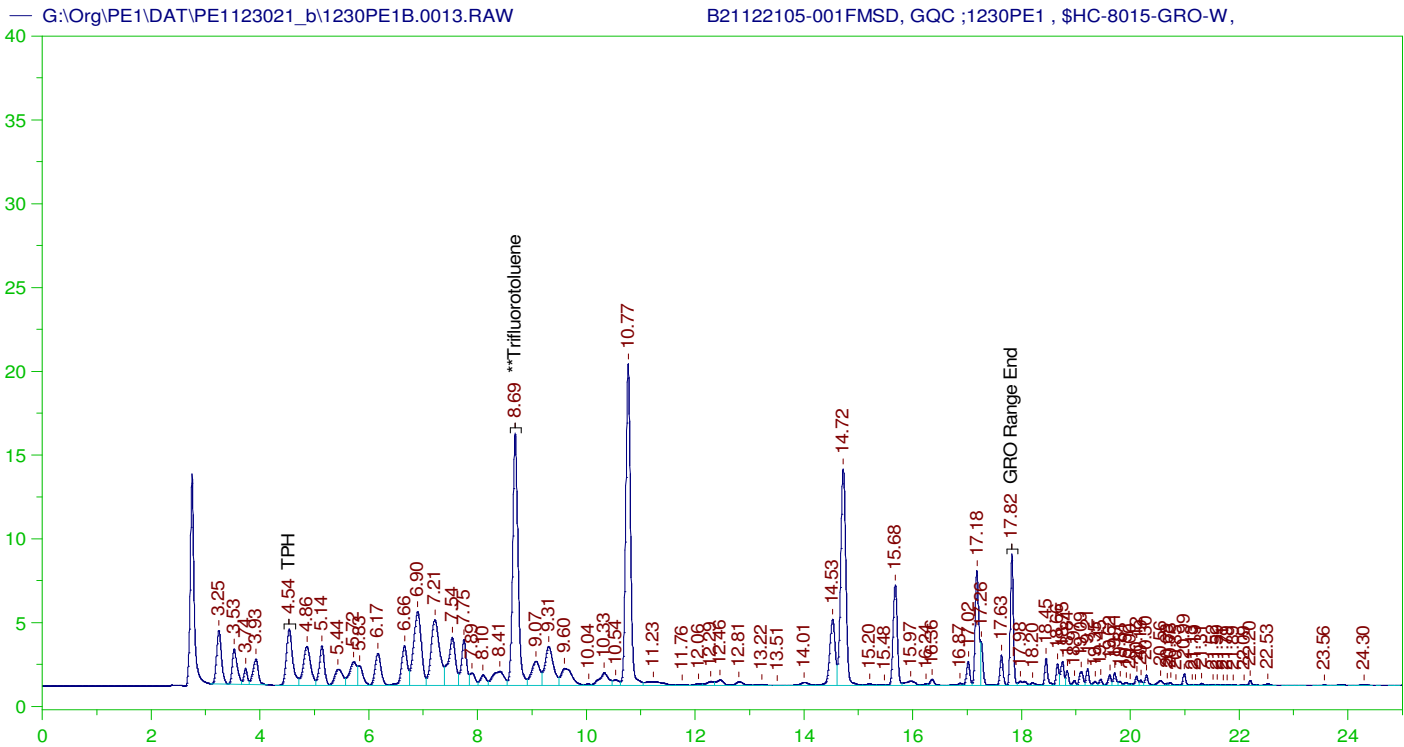
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122105-001FMS, GQC ;1230PE1 , \$HC-8015-GRO-W,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0012.RAW
 Date & Time Acquired: 12/30/2021 2:01:12 PM
 Method File: G:\Org\PE1\Methods\211208G2105-1MSB%.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	8.695	25.	21.514	86.06

GRO Area:719817.5 GRO Amount: 152.1865
 TPH Area:830066.1 TPH Amount: 182.5542



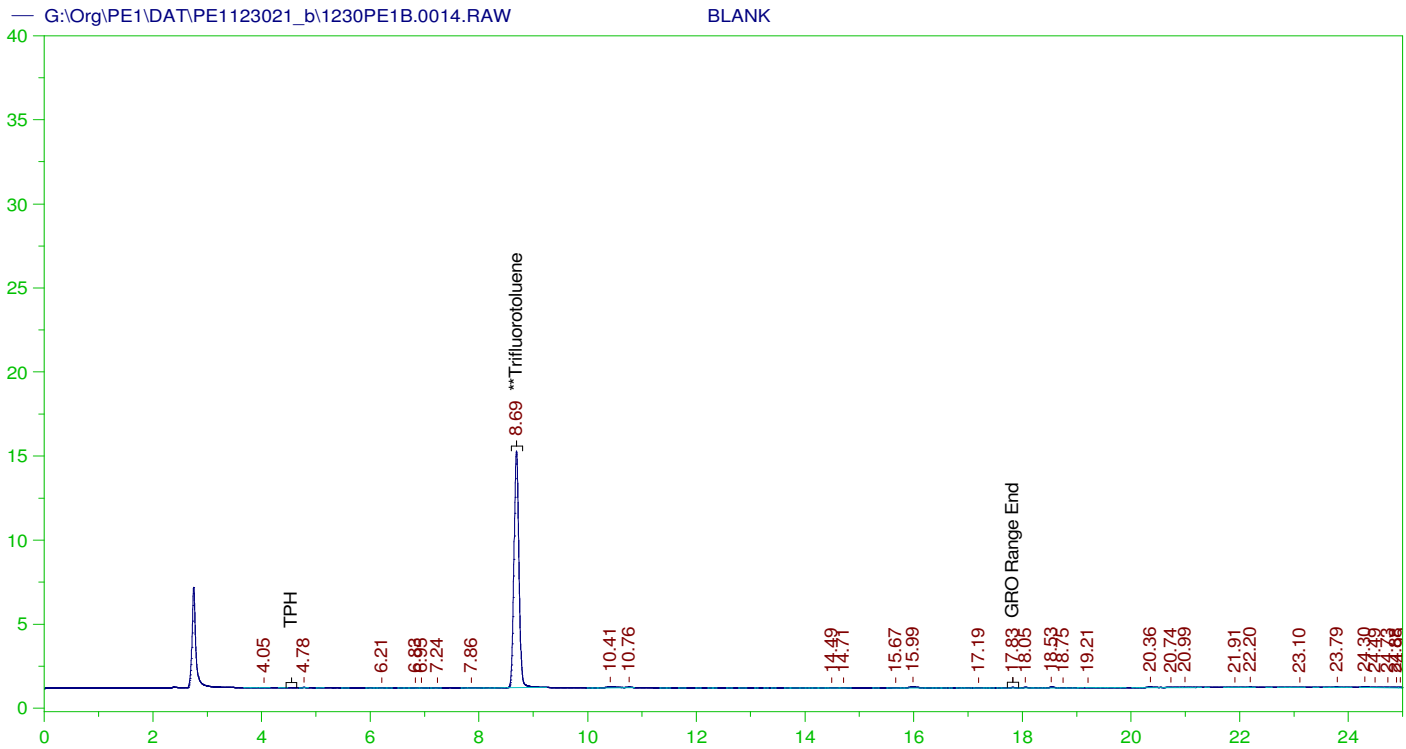
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122105-001FMSD, GQC ;1230PE1 , \$HC-8015-GRO-W,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0013.RAW
 Date & Time Acquired: 12/30/2021 2:35:24 PM
 Method File: G:\Org\PE1\Methods\211208G2105-1MSDB%.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	8.693	25.	21.948	87.79

GRO Area:734627.8 GRO Amount: 155.3177
 TPH Area:843524.8 TPH Amount: 185.5141



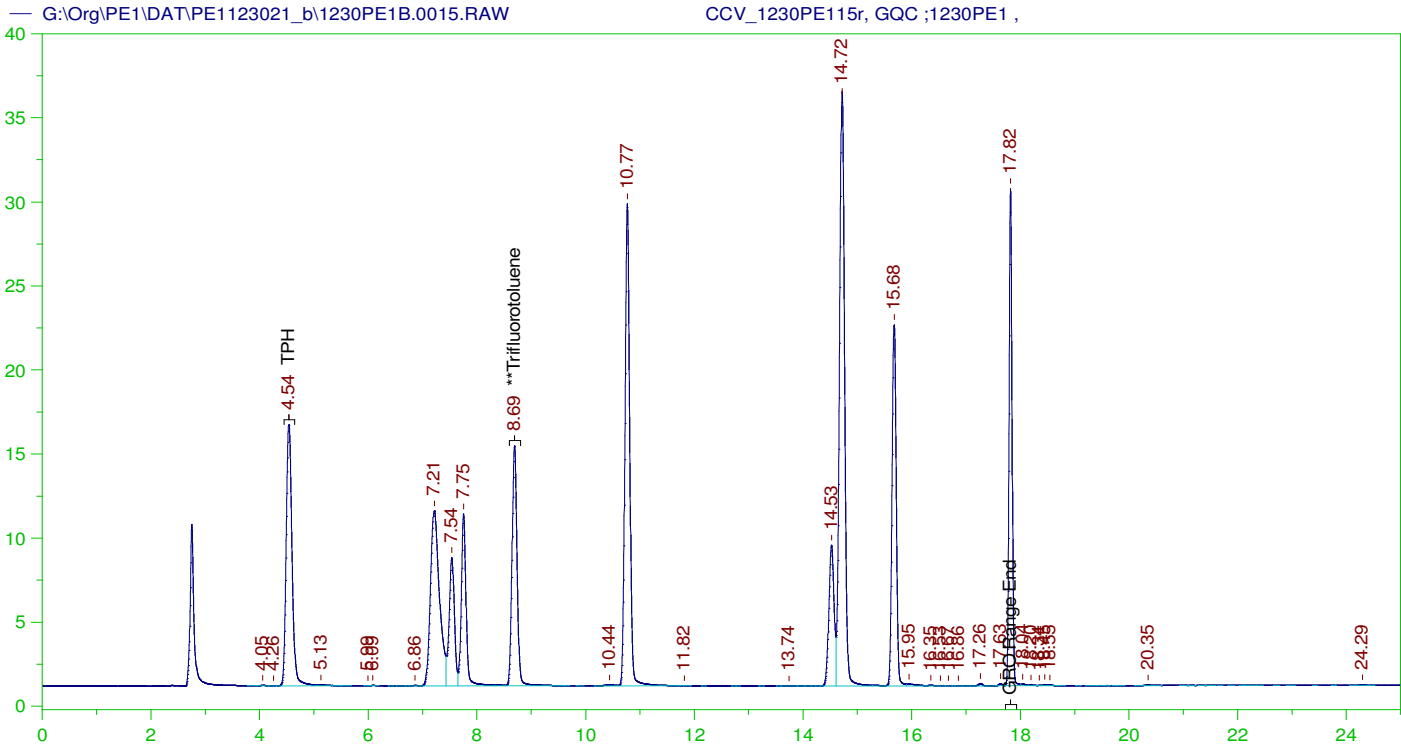
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0014.RAW
 Date & Time Acquired: 12/30/2021 3:09:38 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	8.69	125.	95.205	76.16

GRO Area:3660.928 GRO Amount: 3.870034
 TPH Area:6796.634 TPH Amount: 7.473827



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1230PE115r, GQC ;1230PE1 ,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0015.RAW
Date & Time Acquired: 12/30/2021 3:43:54 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

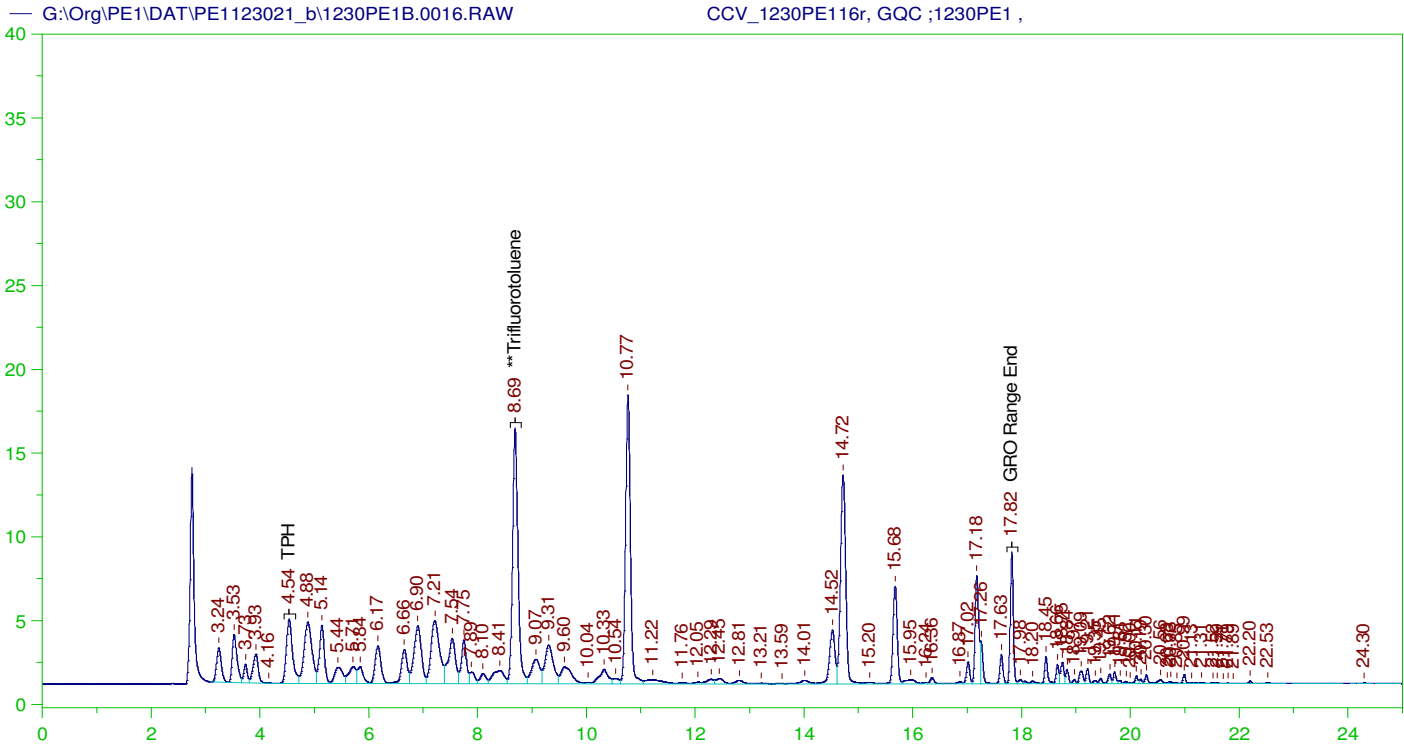
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.692	125.	97.84	78.27

GRO Area:1054484 GRO Amount: 1114.714
TPH Area:1057114 TPH Amount: 1162.441

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0015.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1114.71	132.7	85-115
TPH	1000.	1162.44	116.24	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.692	125.	97.84	78.27	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1230PE116r, GQC ;1230PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0016.RAW
 Date & Time Acquired: 12/30/2021 4:18:09 PM
 Method File: G:\Org\PE1\Methods\211208GCCV1230_16B%.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

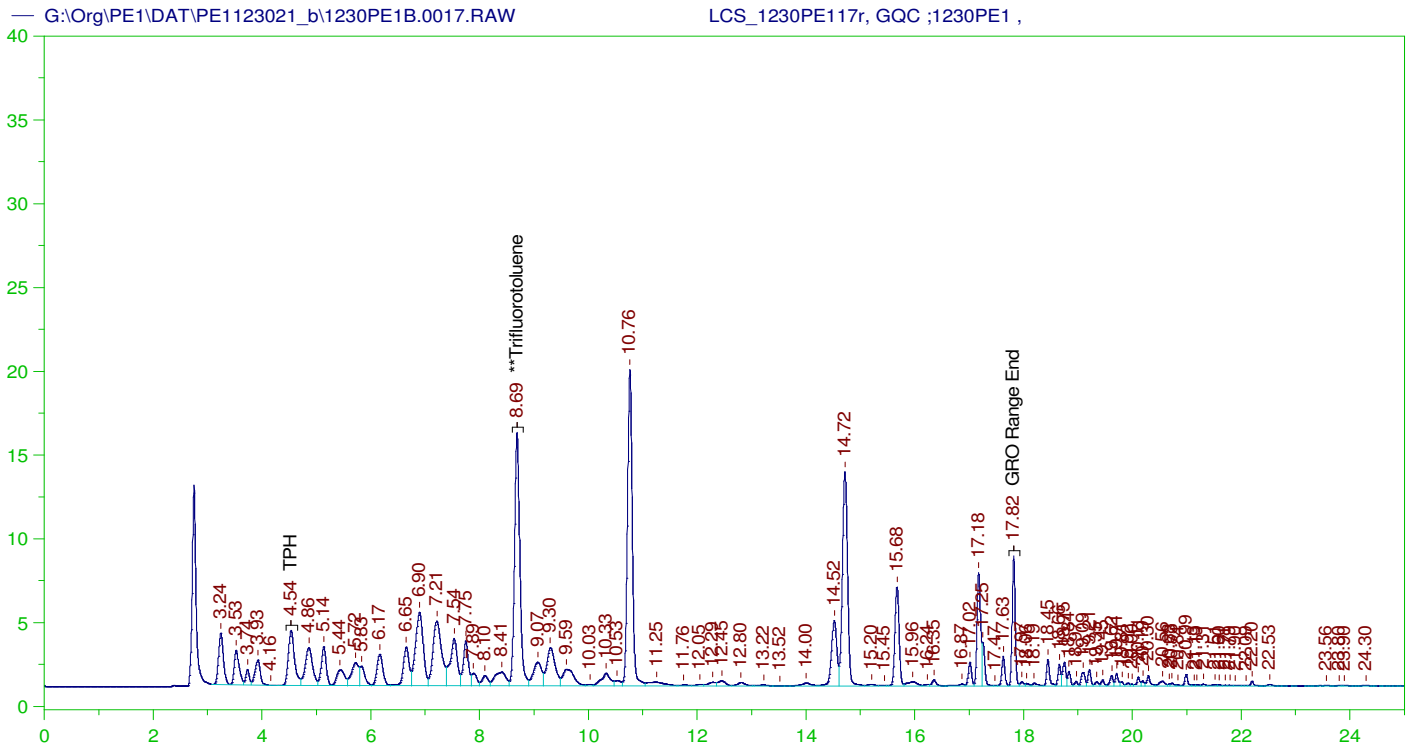
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.691	125.	111.822	89.46

GRO Area: 720162.6 GRO Amount: 761.2972
 TPH Area: 821776.6 TPH Amount: 903.6555

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0016.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	761.3	90.63	85-115
TPH	1000.	903.66	90.37	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.691	125.	111.822	89.46	85-115



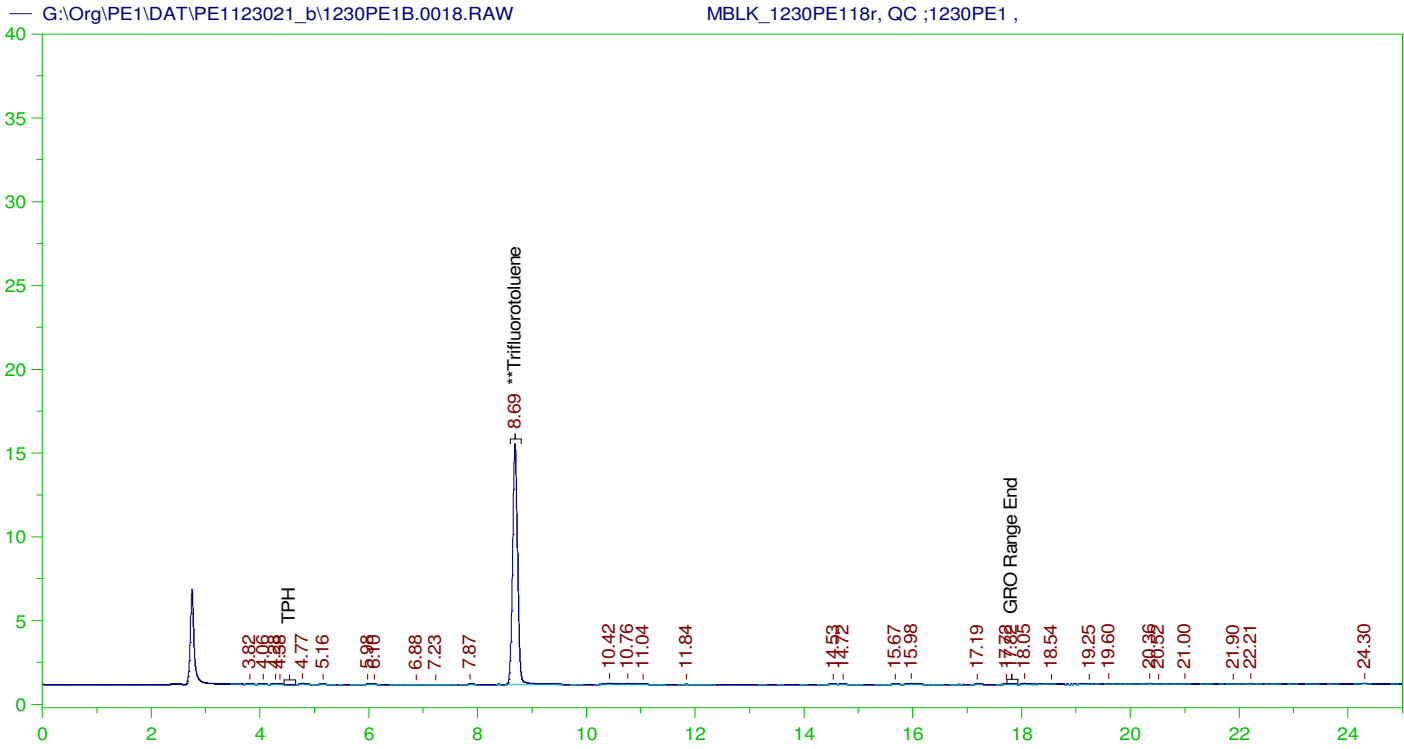
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_1230PE117r, GQC ;1230PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0017.RAW
 Date & Time Acquired: 12/30/2021 4:52:26 PM
 Method File: G:\Org\PE1\Methods\211208GLCS1230_17B%.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	8.689	25.	22.	88.

GRO Area:724290.7 GRO Amount: 153.1322
 TPH Area:832858.8 TPH Amount: 183.1684



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_1230PE118r, QC ;1230PE1 ,
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0018.RAW
 Date & Time Acquired: 12/30/2021 5:26:47 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

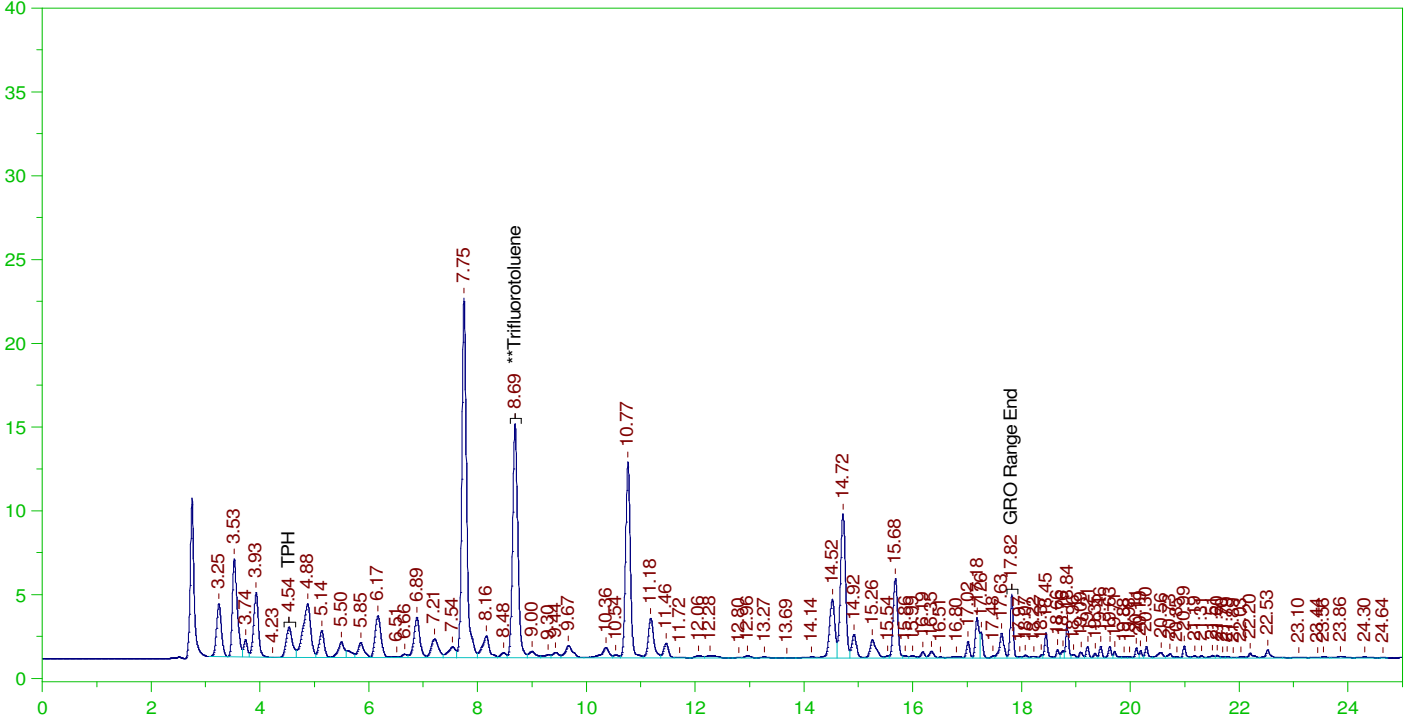
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.689	25.	19.537	78.15

GRO Area:5114.286 GRO Amount: 1.081281
 TPH Area:7563.779 TPH Amount: 1.663481

Groundwater Recovery 53-21

G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0019.RAW

B21122112-001F ;1230PE1 , \$HC-8015-GRO-W,,(1,50)



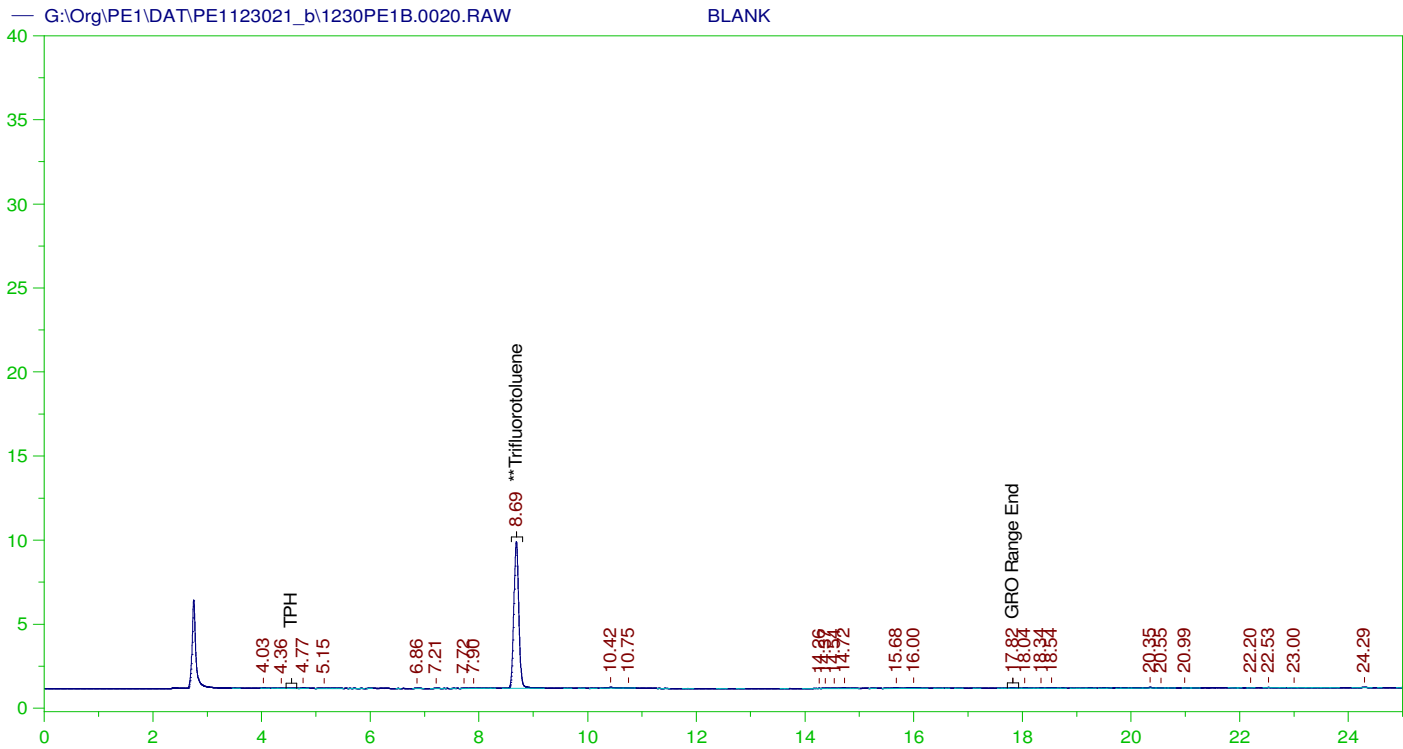
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122112-001F ;1230PE1 , \$HC-8015-GRO-W,, (1,50)
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0019.RAW
 Date & Time Acquired: 12/30/2021 6:01:08 PM
 Method File: G:\Org\PE1\Methods\211208GROB%.MET
 Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
 Sample Weight: 5 Dilution: 50 S.A.: 50

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	8.69	1250.	992.036	79.36	-

GRO Area:588677.3 GRO Amount: 6223.017
 TPH Area:735482.3 TPH Amount: 8087.631



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0020.RAW
 Date & Time Acquired: 12/30/2021 6:35:32 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

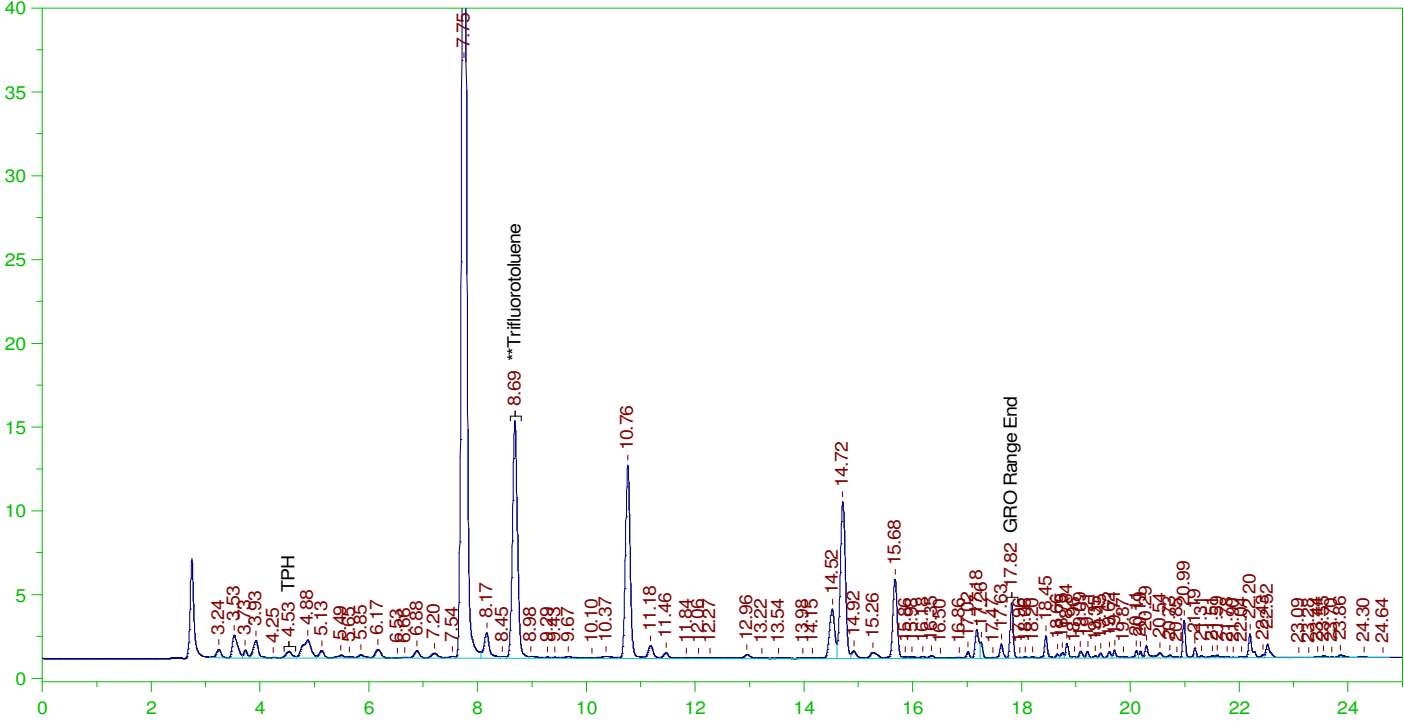
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.688	125.	58.847	47.08

GRO Area:3256.154 GRO Amount: 3.44214
 TPH Area:5217.108 TPH Amount: 5.736922

CTB Recovery 53-21

G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0021.RAW

B21122114-001F ;1230PE1 , \$HC-8015-GRO-W,,(1,200)



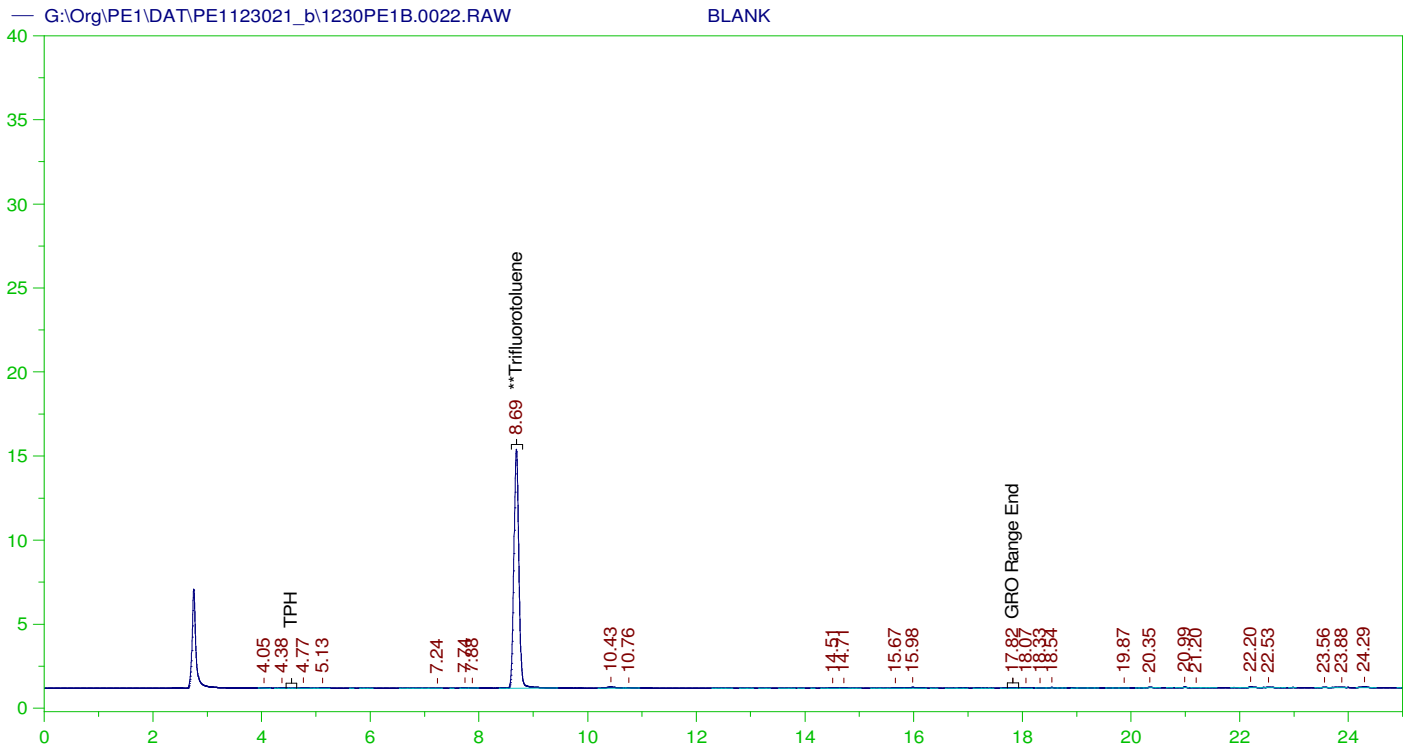
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21122114-001F ;1230PE1 , \$HC-8015-GRO-W,, (1,200)
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0021.RAW
 Date & Time Acquired: 12/30/2021 7:09:47 PM
 Method File: G:\Org\PE1\Methods\211208G2114-1B%.MET
 Calibration File: G:\Org\PE1\Cals\211208GRO8015CB.CAL
 Sample Weight: 5 Dilution: 200 S.A.: 200

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	5000.	3901.335	78.03

GRO Area:678691.3 GRO Amount: 28698.28
 TPH Area:764078.8 TPH Amount: 33608.36



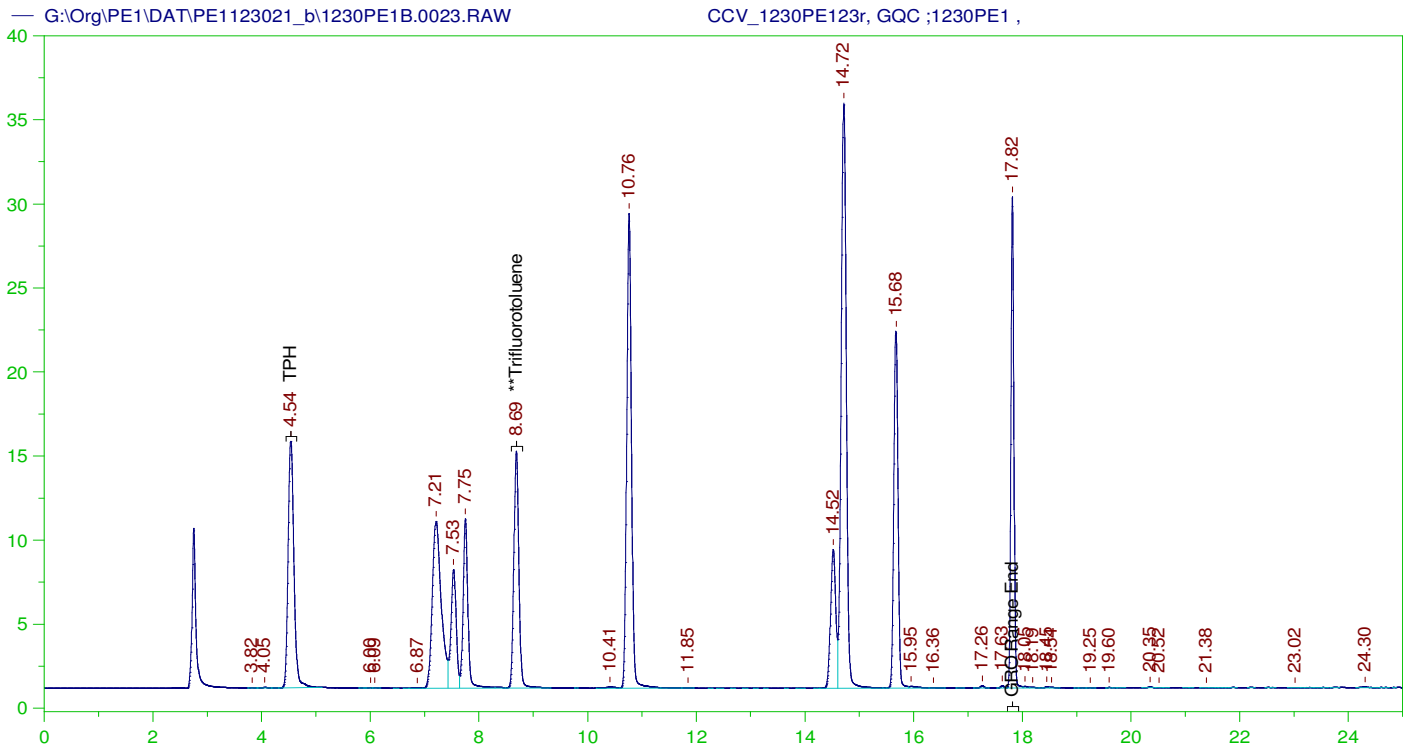
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0022.RAW
 Date & Time Acquired: 12/30/2021 7:44:03 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	8.689	125.	96.473	77.18

GRO Area:3441.784 GRO Amount: 3.638374
 TPH Area:5844.417 TPH Amount: 6.426734



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1230PE123r, GQC ;1230PE1 ,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0023.RAW
Date & Time Acquired: 12/30/2021 8:18:15 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

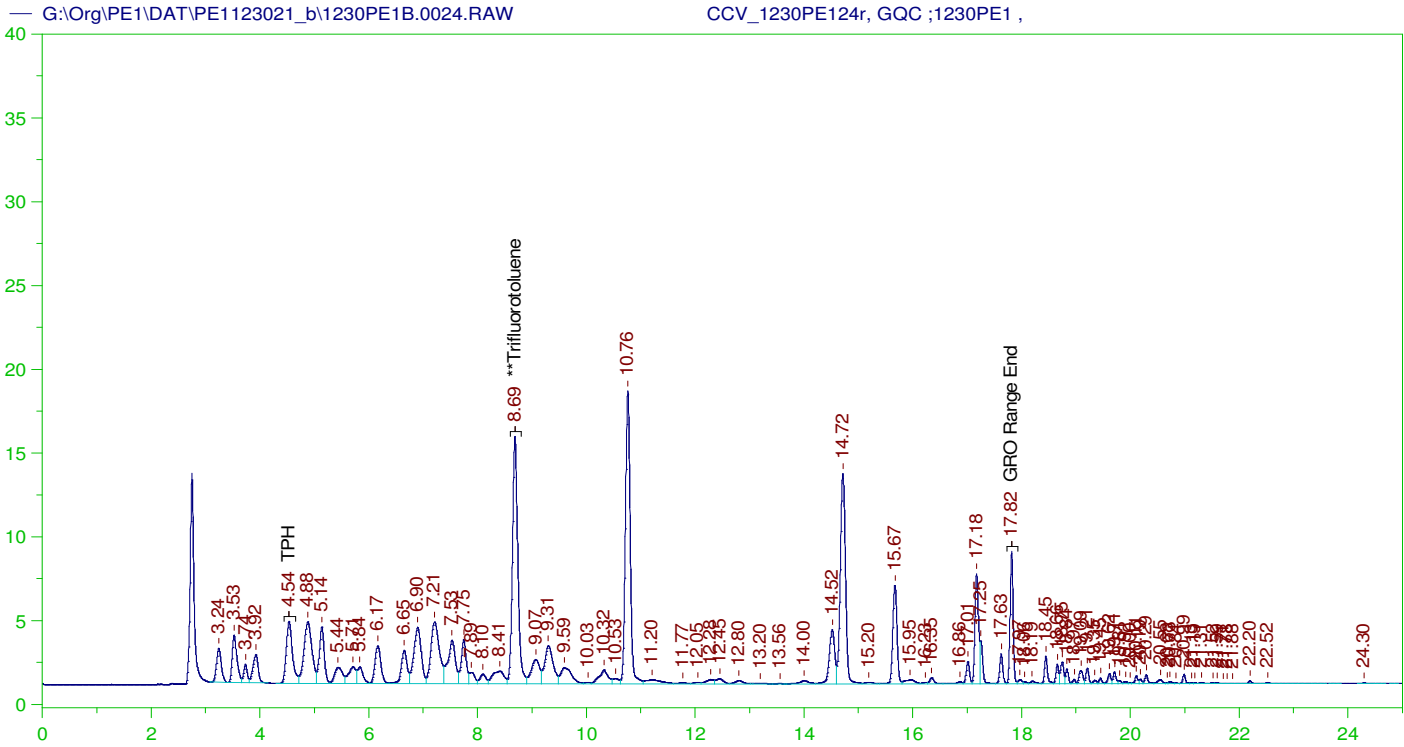
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
**Trifluorotoluene	8.688	125.	95.572	76.46

GRO Area:1023378 GRO Amount: 1081.832
TPH Area:1026153 TPH Amount: 1128.396

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0023.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	1081.83	128.79	85-115
TPH	1000.	1128.4	112.84	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.688	125.	95.572	76.46	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1230PE124r, GQC ;1230PE1 ,
Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0024.RAW
Date & Time Acquired: 12/30/2021 8:52:28 PM
Method File: G:\Org\PE1\Methods\211208GCCV1230_24B%.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

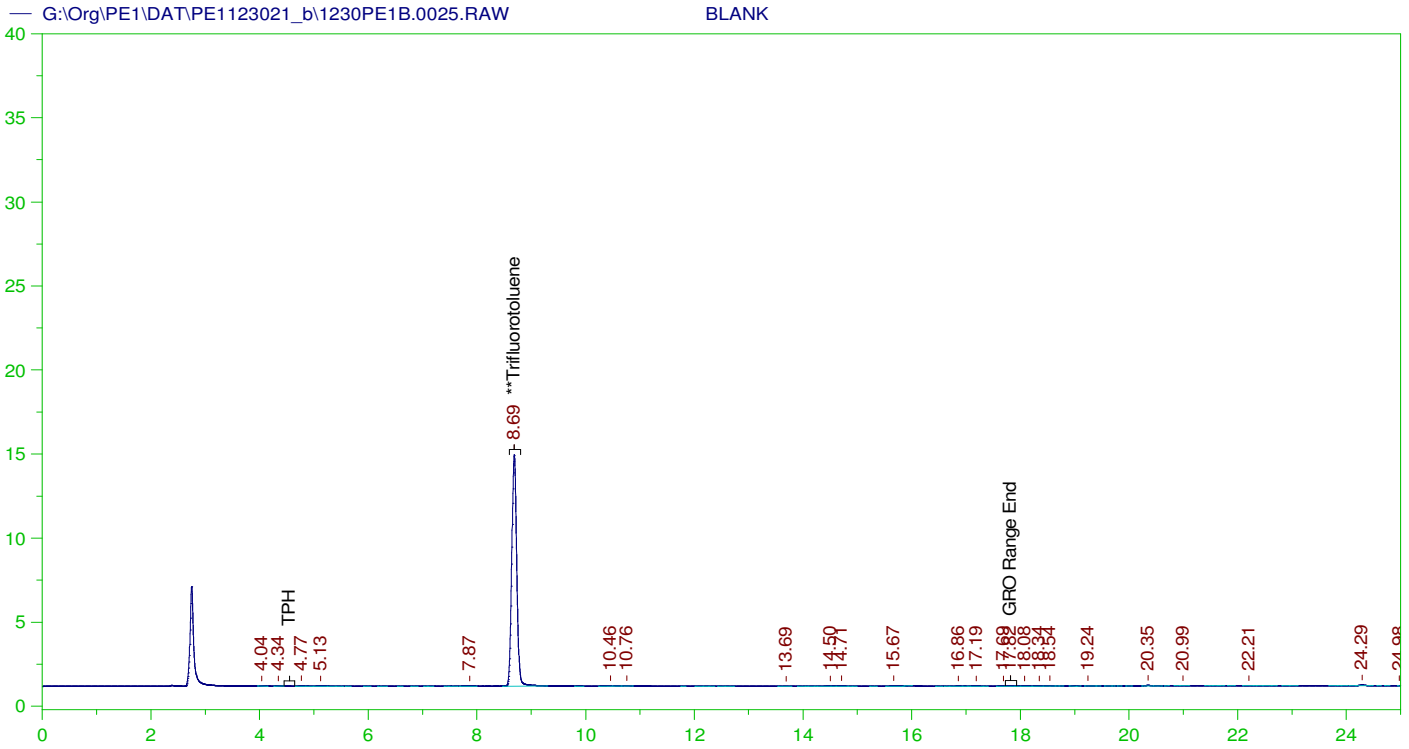
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	8.688	125.	108.392	86.71	-

GRO Area: 716643.4 GRO Amount: 757.577
TPH Area: 819977.3 TPH Amount: 901.6769

CONTINUING CALIBRATION REPORT: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0024.RAW

COMPOUND	ACTUAL (NG)	MEASURED (NG)	%RECOVERY	LIMITS
GRO	840.	757.58	90.19	85-115
TPH	1000.	901.68	90.17	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	8.688	125.	108.392	86.71	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
 Raw File: G:\Org\PE1\DAT\PE1123021_b\1230PE1B.0025.RAW
 Date & Time Acquired: 12/30/2021 9:26:47 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.	93.197	74.56

GRO Area: 2472.745 GRO Amount: 2.613984
 TPH Area: 4115.857 TPH Amount: 4.525946

Write Sequence	Sample Name	Method	Weight	Dil Factor	Amt Inj.	IS	Cal ID	Manual Integrations
G:\Org\PE1\DAT\PE1123021_b\1230PE1.01r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.02r	CCV_1230PE102r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.03r	CCV_1230PE103r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1123021_b\1230PE1.04r	LCS_1230PE104r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1123021_b\1230PE1.05r	MBLK_1230PE105r, QC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1123021_b\1230PE1.06r	B21122090-003A ;1230PE1 , \$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\PE1123021_b\1230PE1.07r	B21122105-003A ;1230PE1 , \$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\PE1123021_b\1230PE1.08r	B21122090-001F ;1230PE1 , \$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\PE1123021_b\1230PE1.09r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.10r	B21122105-001F ;1230PE1 , \$HC-8015-GRO-W,	G:\Org\PE1\Methods\21120	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.11r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.12r	B21122105-001FMS, GQC ;1230PE1 , \$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\PE1123021_b\1230PE1.13r	B21122105-001FMSD, GQC ;1230PE1 , \$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\PE1123021_b\1230PE1.14r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.15r	CCV_1230PE115r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	None

G:\Org\PE1\DAT\PE1123021_b\1230PE1.16r	CCV_1230PE116r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1123021_b\1230PE1.17r	LCS_1230PE117r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1123021_b\1230PE1.18r	MBLK_1230PE118r, QC ;1230PE1 ,	G:\Org\PE1\Methods\21120	5	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.19r	B21122112-001F ;1230PE1 , \$HC-8015-GRO-W,,(1,50)	G:\Org\PE1\Methods\21120	5	50	1	50	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.20r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.21r	B21122114-001F ;1230PE1 , \$HC-8015-GRO-W,,(1,200)	G:\Org\PE1\Methods\21120	5	200	1	200	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1123021_b\1230PE1.22r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.23r	CCV_1230PE123r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	None
G:\Org\PE1\DAT\PE1123021_b\1230PE1.24r	CCV_1230PE124r, GQC ;1230PE1 ,	G:\Org\PE1\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\PE1\DAT\PE1123021_b\1230PE1.25r	BLANK	G:\Org\PE1\Methods\21120	1	1	1	1	0	None

Josie M Pickard
Chemist

Digitally signed by
Josie Pickard
Date: 2022.02.04 09:49:57 -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
GAS210122 Unleaded Gasoline Comp. Std.(2.0uL)

Base Units
ug/mL

Amount Added
0.1 mL

Analtes

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

GASH210122 Unleaded Gasoline Composite

Base Units

ug/mL

Amount Added

0.84 mL

Analtes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: GASH210122
 Standard Name: Unleaded Gasoline Composite
 Date Prepared: 1/22/2021
 Date Expires: 6/7/2023
 Department: GCVOA
 Vendor:
 Lot Number:
 Balance ID:
 Comments: Concentration : 50,000 ug/ml

Type: Primary
 BY: Josie Pickard
 Status: New

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

Final Volume: 10 mL

Stock Source
 3GAS160127 Alaska Gasoline Calibration Mix Versio

Base Units
 ug/mL

Amount Added
 0.5022 g

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

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

Type: Neat
BY: Josie Pickard
Status: New

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	6/7/2023

Final Volume: 5 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/mL**

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New Haven, CT 06513
USA



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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

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



Danger 2

Component	CAS #	Purity % (GC/FID)	Prepared Concentration* (%w/w)	Certified Analyte Concentration* (%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 4/8/02

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.

* All weights are traceable through NIST, Test No. 822-275872-11

† 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

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For use in routine laboratory analysis.

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

OR-OR-010-001
Rev. 01/11

Energy Laboratories Inc

Standard LOG

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

Type: Secondary
BY: Josie Pickard
Status: New

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

Final Volume: 1 mL

<u>Stock Source</u>		Base Units	Amount Added
TFTM211208	TFTM	ug/mL	0.1 mL
<u>Analtes</u>		CAS	Conc: ug/mL

Energy Laboratories Inc

Standard LOG

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

Type: Secondary
 BY: Josie Pickard
 Status: New

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

Final Volume: 1 mL

<u>Stock Source</u>		Base Units	Amount Added
TFT211208	TFT (1.05uL)	ug/mL	0.1 mL
<u>Analtes</u>		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

TFTS210607 TFT Stock

Base Units

ug/mL

Amount Added

0.1 mL

Analtes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: TFTS210607
 Standard Name: TFT Stock
 Date Prepared: 6/7/2021
 Date Expires: 9/10/2029
 Department: GCVOA
 Vendor: Accustandard
 Lot Number: 219091095
 Balance ID:
 Comments: 20mg/ml in Meoh Date prepared is date received.

Type: Primary
 BY: Josie Pickard
 Status: New

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

Analvtes

CAS

Conc: **ug/mL**

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

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



Signal Word: Danger

Certified Reference Material



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

Enerav 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 $\pm 2.4\%$. 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.

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The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

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

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	4/2/2030

Final Volume: 5 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

Tosiu

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

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



Signal Word: Danger

Certified Reference Material



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

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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.

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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
GASH210122 Unleaded Gasoline Composite

Base Units
ug/mL

Amount Added
0.84 mL

Analtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID: GASH210122
Standard Name: Unleaded Gasoline Composite
Date Prepared: 1/22/2021
Date Expires: 6/7/2023
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Concentration : 50,000 ug/ml

Type: Primary
BY: Josie Pickard
Status: New

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

Final Volume: 10 mL

Stock Source
3GAS160127 Alaska Gasoline Calibration Mix Versio

Base Units
ug/mL

Amount Added
0.5022 g

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

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

Type: Neat
BY: Josie Pickard
Status: New

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	6/7/2023

Final Volume: 5 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **ug/mL**

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New Haven, CT 06513
USA



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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

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



Danger 2

Component	CAS #	Purity % (GC/FID)	Prepared Concentration* (%w/w)	Certified Analyte Concentration* (%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 4/8/02

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.

* All weights are traceable through NIST, Test No. 822-275872-11

† 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.

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Certified by:

Larry Decker, Organic QC Manager

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

OR-OR-010-001
Rev. 011

Energy Laboratories Inc

Standard LOG

Standard ID: TFT211227
Standard Name: TFT (1.05uL) Type: Secondary
Date Prepared: 12/27/2021 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

<u>Stock Source</u>		Base Units	Amount Added
TFTS210607	TFT Stock	ug/mL	0.1 mL
<u>Analtes</u>		CAS	Conc: ug/mL

Energy Laboratories Inc

Standard LOG

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

Analvtes

CAS

Conc: **ug/mL**

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

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



Signal Word: Danger

Certified Reference Material



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

Enerav Laboratories Inc 1120 So. 27th Street
Billings MT 59107

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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 $\pm 2.4\%$. 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.

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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