Energy Laboratories Inc

ANALYTICAL RUN Summary

18-Feb-22

Run ID VARIAN1_211208B

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

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
14913447	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 12:3	1	R371516		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	221.786	221.786		168	0	0	3.55	20	0	132%	80	120	0%	S
Total Purgeable Hydrocarbons	A	ug/L	229.2002	229.2002		200	0	0	3.69	20	0	115%	80	120	0%	
Trifluorotoluene	S	ug/L	20.03532	20.03532		25	0	0	0.131	1	0	80%	80	120	0%	
GRO as Gasoline	X	ug/L	221.786	221.786		0	0	0	3.55	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
14913448	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 2:51:	1	R371516		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	19.36343	19.36343		16.8	0	0	3.55	20	0	115%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	22.86042	22.86042		20	0	0	3.69	20	0	114%	80	120	0%	
Trifluorotoluene	S	ug/L	1.200123	1.200123		1	0	0	0.131	1	0	120%	80	120	0%	
GRO as Gasoline	X	ug/L	19.36343	19.36343		0	0	0	3.55	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
14913449	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 3:25:	1	R371516		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	86.64822	86.64822		84	0	0	3.55	20	0	103%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	104.0397	104.0397		100	0	0	3.69	20	0	104%	80	120	0%	
Trifluorotoluene	S	ug/L	5.962319	5.962319		5	0	0	0.131	1	0	119%	80	120	0%	
GRO as Gasoline	X	ug/L	86.64822	86.64822		0	0	0	3.55	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
14913450	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 3:59:	1	R371516		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	171.1369	171.1369		168	0	0	3.55	20	0	102%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	202.5095	202.5095		200	0	0	3.69	20	0	101%	80	120	0%	
Trifluorotoluene	S	ug/L	22.84635	22.84635		25	0	0	0.131	1	0	91%	80	120	0%	
GRO as Gasoline	X	ug/L	171.1369	171.1369		0	0	0	3.55	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
14913451	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 4:33:	1	R371516		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	765.2867	765.2867		840	0	0	3.55	20	0	91%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	914.3724	914.3724		1000	0	0	3.69	20	0	91%	80	120	0%	
Trifluorotoluene	S	ug/L	85.18011	85.18011		100	0	0	0.131	1	0	85%	80	120	0%	
GRO as Gasoline	X	ug/L	765.2867	765.2867		0	0	0	3.55	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
14913452	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 5:08:	1	R371516		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	1488.75	1488.75		1680	0	0	3.55	20	0	89%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	1779.326	1779.326		2000	0	0	3.69	20	0	89%	80	120	0%	
Trifluorotoluene	S	ug/L	168.3369	168.3369		200	0	0	0.131	1	0	84%	80	120	0%	
GRO as Gasoline	X	ug/L	1488.75	1488.75		0	0	0	3.55	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
14913453	LCS_1208VAR7	HC-8015-GRO-	LCS		12/10/2021 6:16:	1	R371516		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	171.7639	171.7639		170	0	0	3.55	20	0	101%	70	130	0%	
Total Purgeable Hydrocarbons	A	ug/L	209.8679	209.8679		200	0	0	3.69	20	0	105%	70	130	0%	
Trifluorotoluene	S	ug/L	22.35714	22.35714		25	0	0	0.131	1	0	89%	70	130	0%	
GRO as Gasoline	X	ug/L	171.7639	171.7639		170	0	0	3.55	20	0	101%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
14913454	CCV_1208VAR	HC-8015-GRO-	CCV		12/10/2021 6:50:	1	R371516		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	167.6036	167.6036		168	0	0	3.55	20	0	100%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	199.8128	199.8128		200	0	0	3.69	20	0	100%	80	120	0%	
Trifluorotoluene	S	ug/L	22.63931	22.63931		25	0	0	0.131	1	0	91%	80	120	0%	
GRO as Gasoline	X	ug/L	167.6036	167.6036		0	0	0	3.55	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\VAR\DAT\VAR120821_b\1208VAR.60r	CCV_1208VAR60r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.61r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.62r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.63r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.64r	CCV_1208VAR64r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.65r	CCV_1208VAR65r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.66r	CCV_1208VAR66r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.67r	CCV_1208VAR67r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.68r	CCV_1208VAR68r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.69r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.70r	LCS_1208VAR70r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.71r	CCV_1208VAR71r, GQC ;1208VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR120821_b\1208VAR.72r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0

File Name: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Version: 3

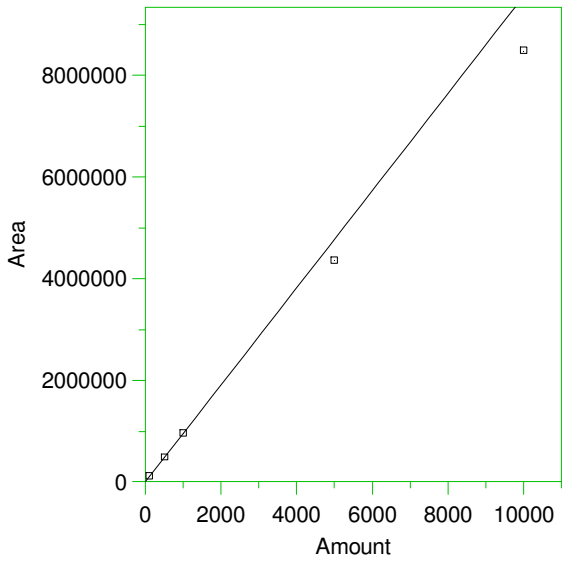
Creator: jmp
Description: Column Restex Rtx 502.2 12/8/21
Reason for change:

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: 4.87 minutes
Search window: 0.12 minutes
No retention time reference component
Group number: 1

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

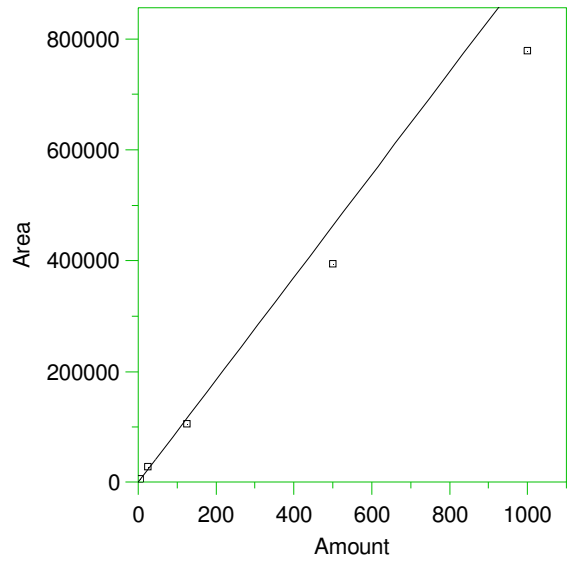
Single peak quantification by area

Y = 955.6747 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9748226
Average error: 7.839%
Average CF: 955.6747
RSD: 10.216%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	100	109235.6	1092.356	14.302	Manual	12/10/2021 7:35:02 AM
2	500	497140.5	994.281	4.040	Manual	12/10/2021 7:35:21 AM
3	1000	967665.8	967.6658	1.255	Manual	12/10/2021 7:35:40 AM
4	5000	4369213	873.8426	-8.563	Manual	12/10/2021 7:35:59 AM
5	10000	8502283	850.2283	-11.034	Manual	12/10/2021 7:36:14 AM

2 **Trifluorotoluene



Expected retention time: 9.01 minutes
Search window: 0.15 minutes
No retention time reference component
Group number: 1

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

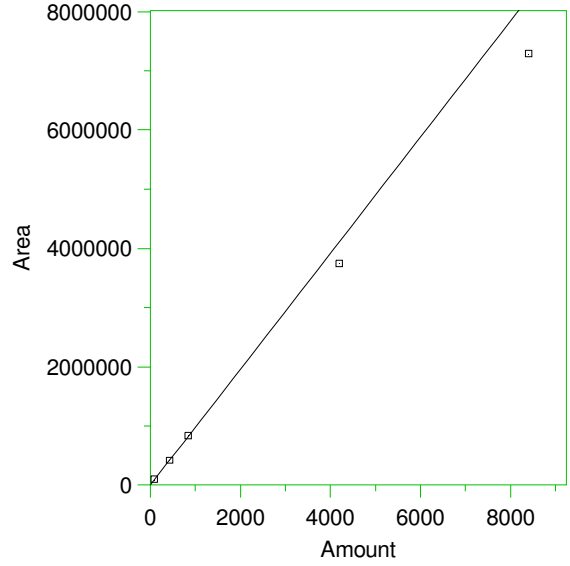
Single peak quantification by area

Y = 925.8474 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9388383
Average error: 15.706%
Average CF: 925.8474
RSD: 18.136%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	5	5556	1111.2	20.020	Manual	12/10/2021 7:33:35 AM
2	25	27601	1104.04	19.246	Manual	12/10/2021 7:28:46 AM
3	125	105761	846.088	-8.615	Manual	12/10/2021 7:29:43 AM
4	500	394319	788.638	-14.820	Manual	12/10/2021 7:31:11 AM
5	1000	779271	779.271	-15.832	Manual	12/10/2021 7:32:35 AM

3 GRO Range End



Expected retention time: 17.97 minutes
Search window: 0.12 minutes
No retention time reference component
Group number: 1

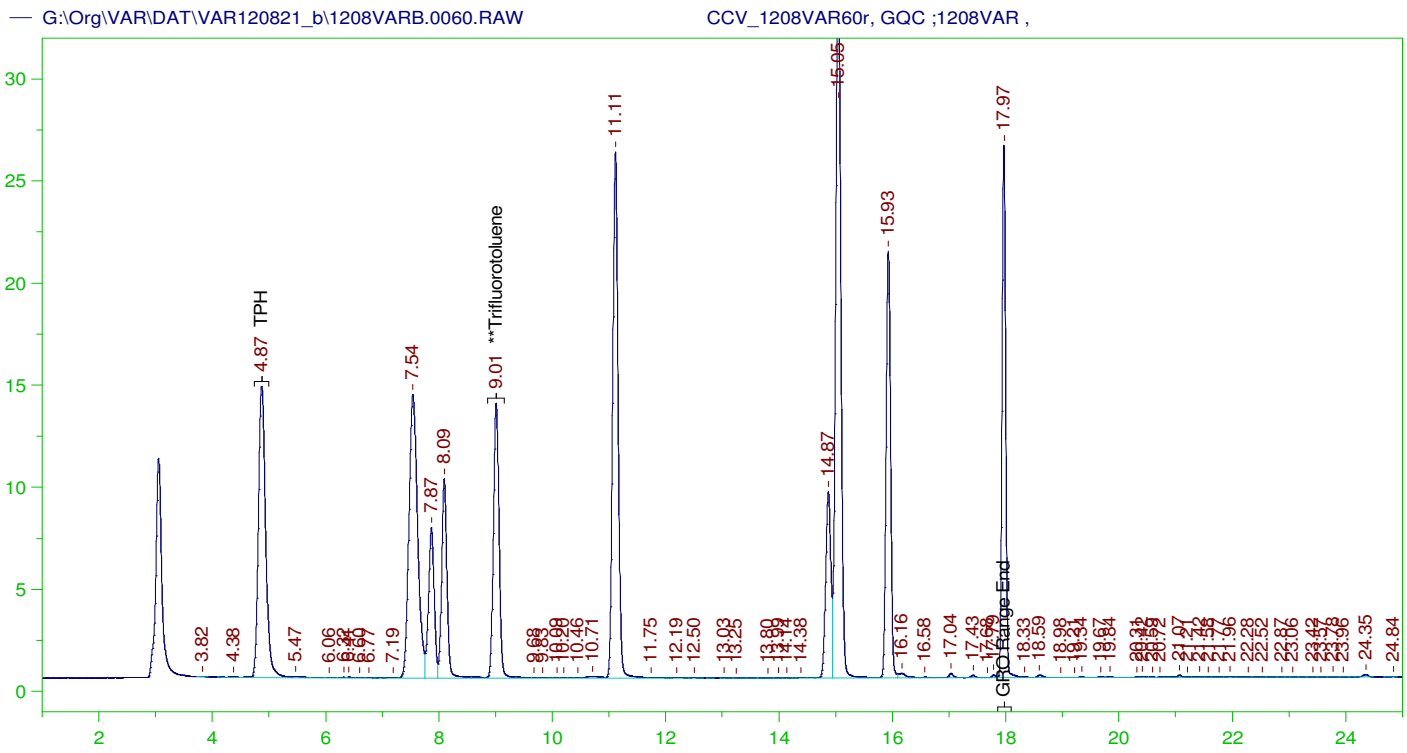
High alarm limit: 1000000
Low alarm limit: 1000
Component constant: 1

Single peak quantification by area

Y = 979.9788 X + 0

Average CF fit with equal weighting, forced to origin
Coefficient of determination: 0.9729225
Average error: 8.111%
Average CF: 979.9788
RSD: 10.665%

Level	Amount	Response	Cal Factor	Error, %	Source	Date and time
1	84	94878.77	1129.509	15.259	Manual	12/10/2021 7:35:09 AM
2	420	424567.1	1010.874	3.153	Manual	12/10/2021 7:35:26 AM
3	840	838552.8	998.2772	1.867	Manual	12/10/2021 7:35:45 AM
4	4200	3749824	892.8152	-8.894	Manual	12/10/2021 7:36:05 AM
5	8400	7294716	868.4186	-11.384	Manual	12/10/2021 7:36:20 AM



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208VAR60r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0060.RAW
Date & Time Acquired: 12/10/2021 12:35:18 AM
Method File: G:\Org\VAR\Methods\211208GROB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

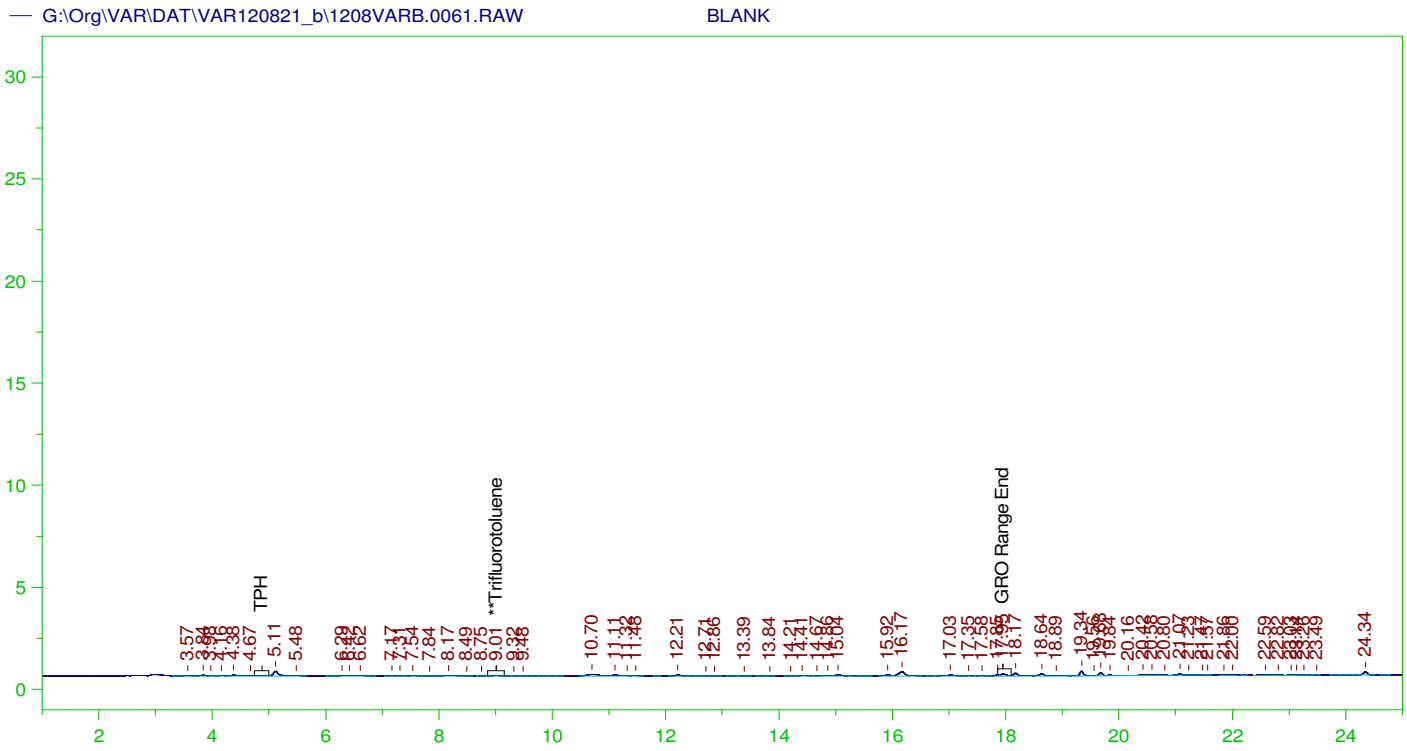
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	125.	100.177	80.14	-

GRO Area:1086728 GRO Amount: 1108.93
TPH Area:1095204 TPH Amount: 1146.001

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0060.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	1108.93	132.02	85-115
TPH	1000.	1146.	114.6	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.01	125.	100.177	80.14	85-115



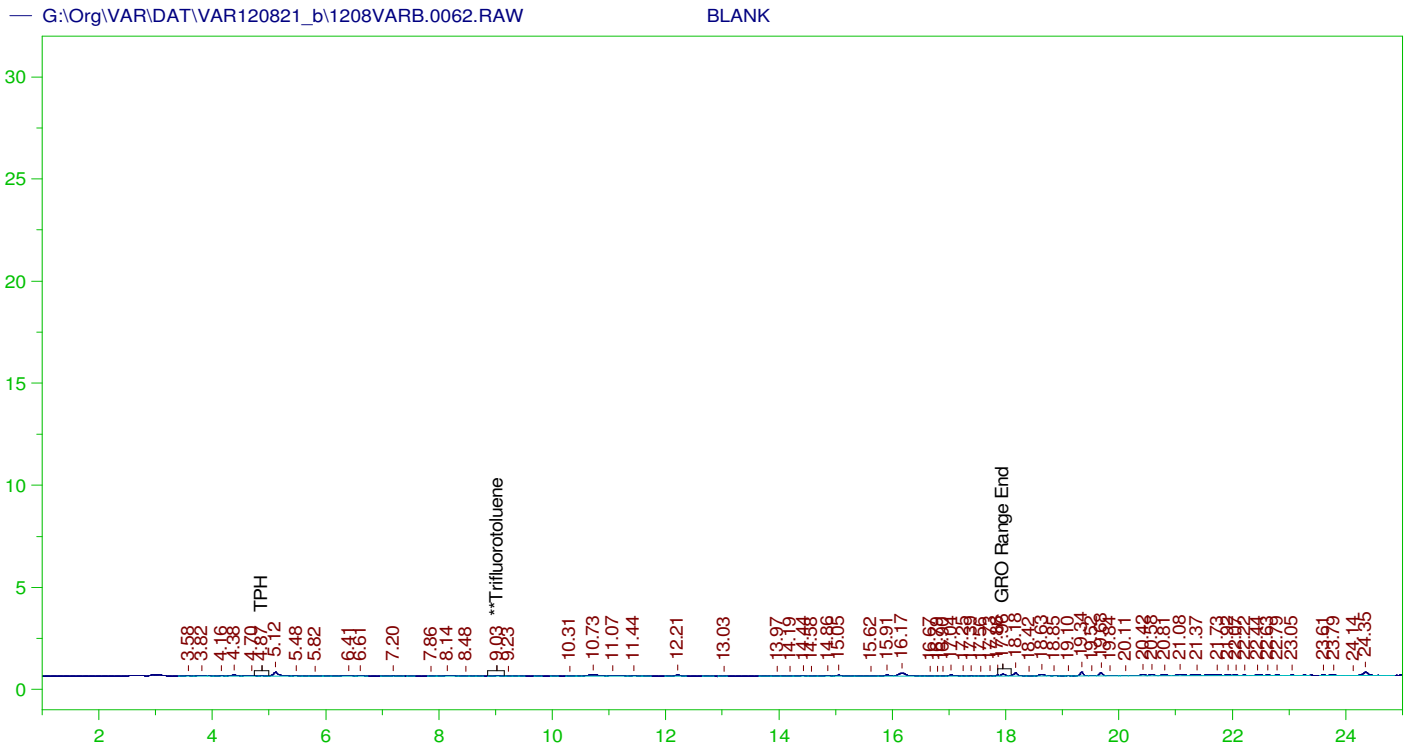
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0061.RAW
Date & Time Acquired: 12/10/2021 1:09:21 AM
Method File: G:\Org\VAR\Methods\211208GROB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.008	125.	.281	.23	-

GRO Area:12535.49 GRO Amount: 12.79159
TPH Area:22619.29 TPH Amount: 23.6684



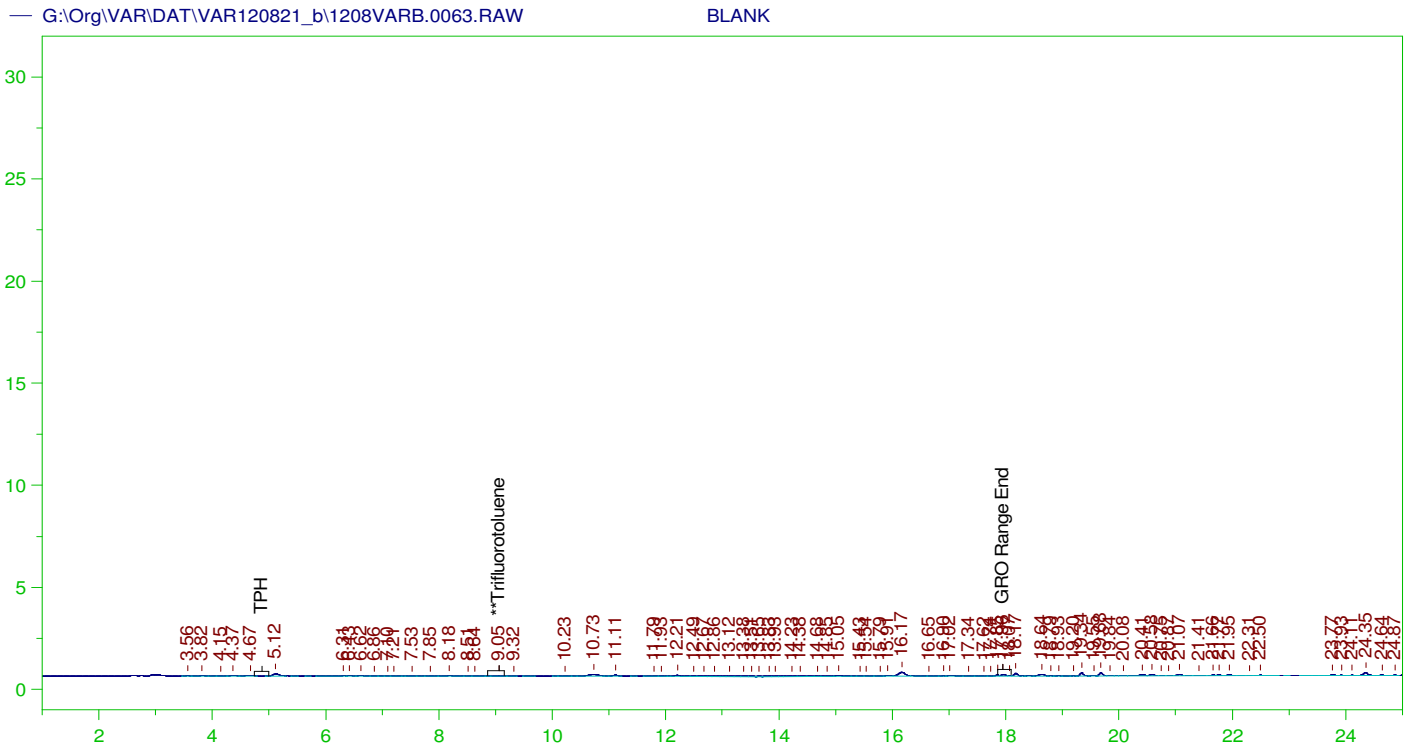
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0062.RAW
Date & Time Acquired: 12/10/2021 1:43:27 AM
Method File: G:\Org\VAR\Methods\211208GROB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.028	125.	.235	.19	-

GRO Area:12352.84 GRO Amount: 12.60521
TPH Area:24237.5 TPH Amount: 25.36166



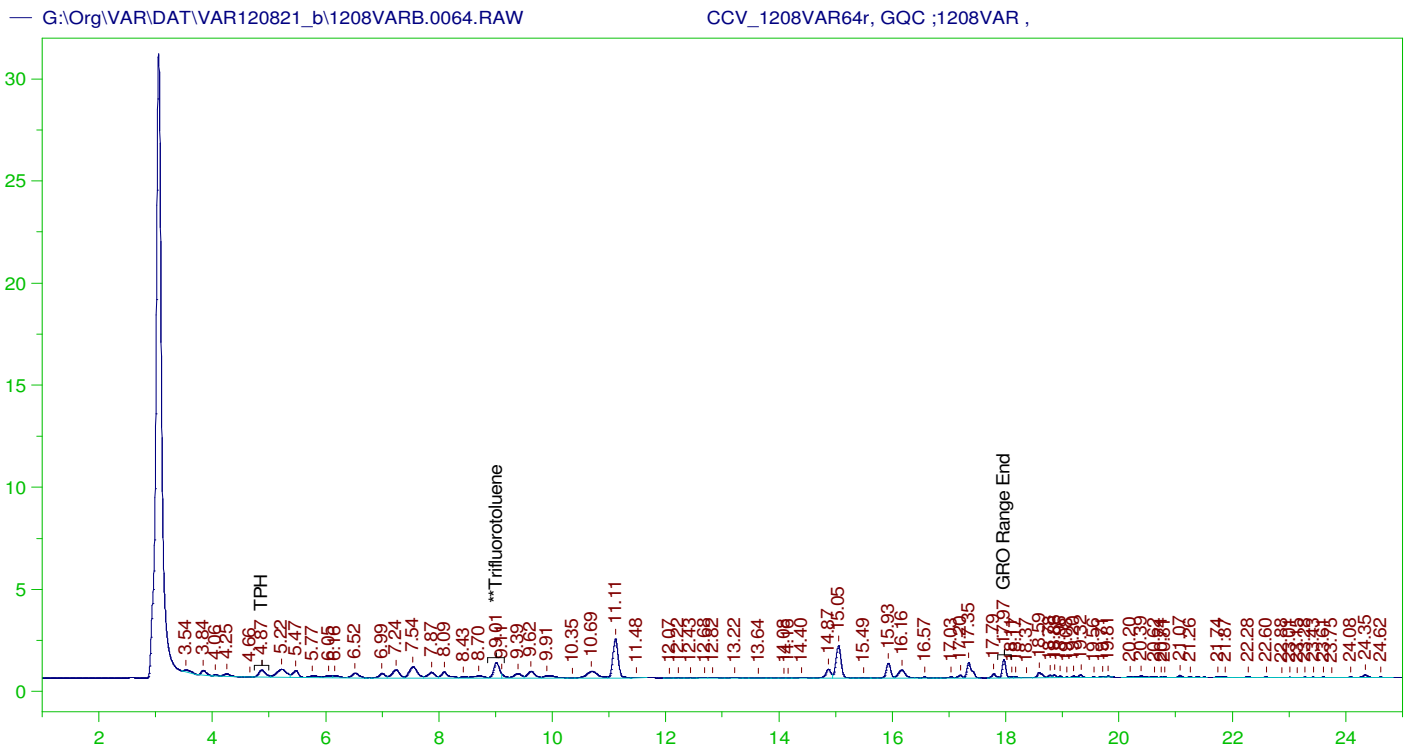
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0063.RAW
Date & Time Acquired: 12/10/2021 2:17:34 AM
Method File: G:\Org\VAR\Methods\211208GROB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.054	125.	.219	.18	-

GRO Area:12181.76 GRO Amount: 12.43063
TPH Area:21574.09 TPH Amount: 22.57472



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208VAR64r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0064.RAW
Date & Time Acquired: 12/10/2021 2:51:41 AM
Method File: G:\Org\VAR\Methods\211208GROG1B%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	125.	6.001	4.8	-

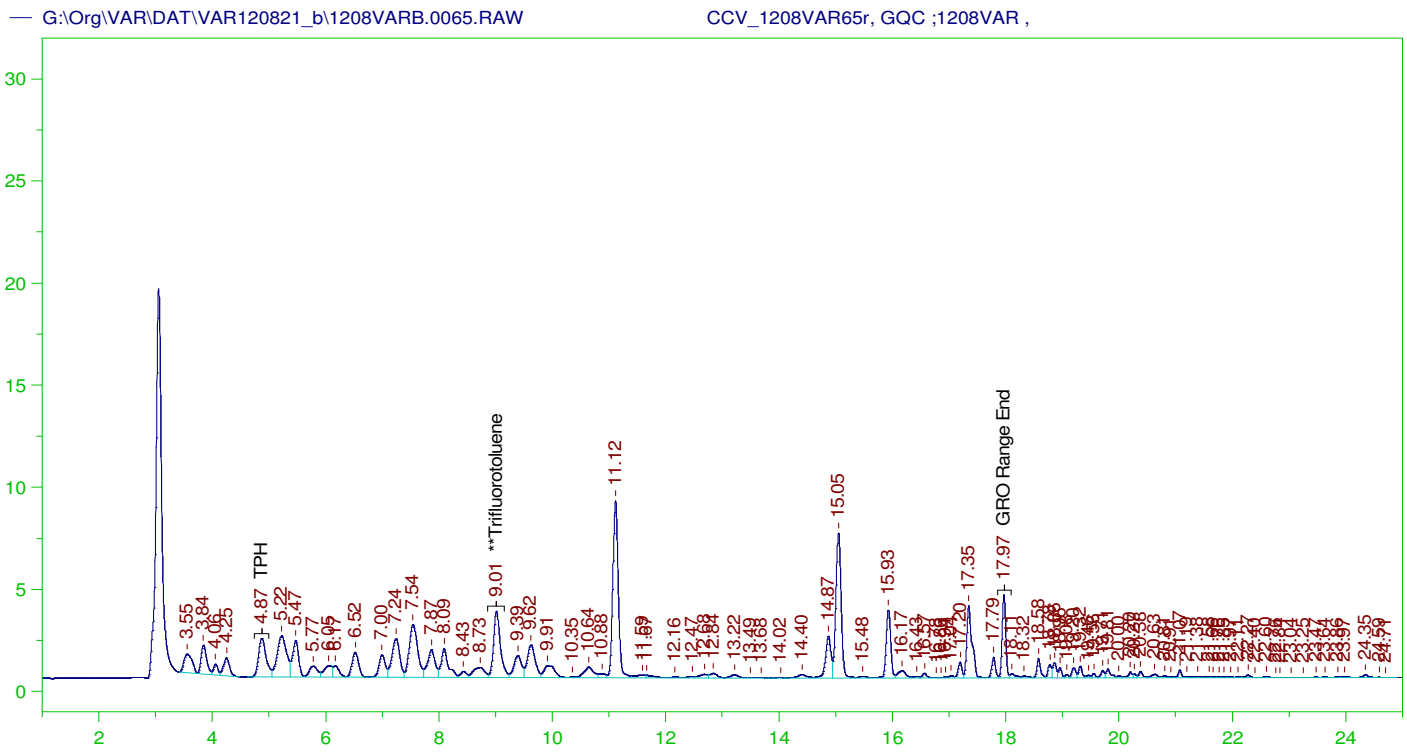
GRO Area:94878.77 GRO Amount: 96.81716
TPH Area:109235.6 TPH Amount: 114.3021

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0064.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	96.82	11.53	85-115
TPH	1000.	114.3	11.43	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.014	125.	6.001	4.8	85-115

G:\org\VAR\dat\VAR120821_b\Review\064_CCV_1208VAR64r_211208GROG1B%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208VAR65r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0065.RAW
Date & Time Acquired: 12/10/2021 3:25:47 AM
Method File: G:\Org\VAR\Methods\211208GROG2B%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

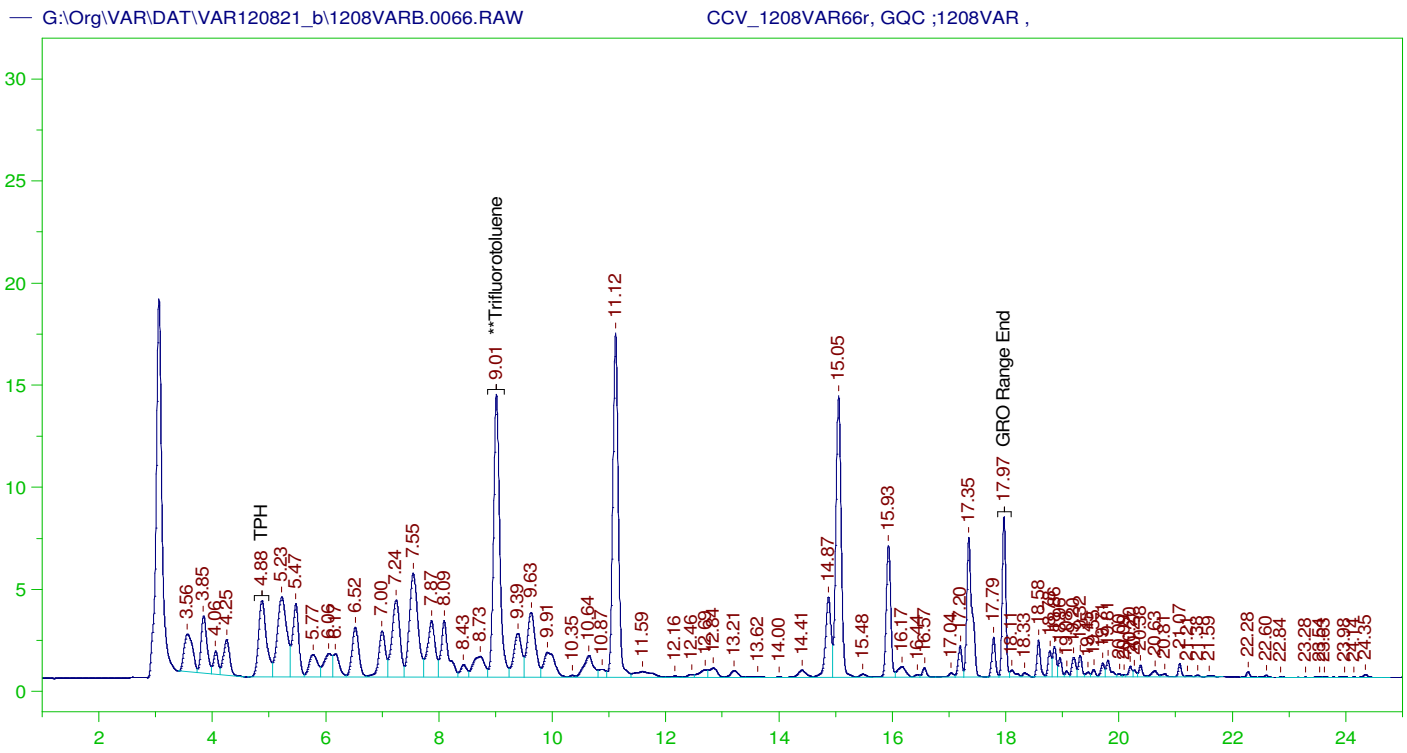
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.015	125.	29.812	23.85	-

GRO Area:424567.1 GRO Amount: 433.2411
TPH Area:497140.5 TPH Amount: 520.1984

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0065.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	433.24	51.58	85-115
TPH	1000.	520.2	52.02	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.015	125.	29.812	23.85	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208VAR66r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0066.RAW
Date & Time Acquired: 12/10/2021 3:59:53 AM
Method File: G:\Org\VAR\Methods\211208GROG3B%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	114.232	91.39	-

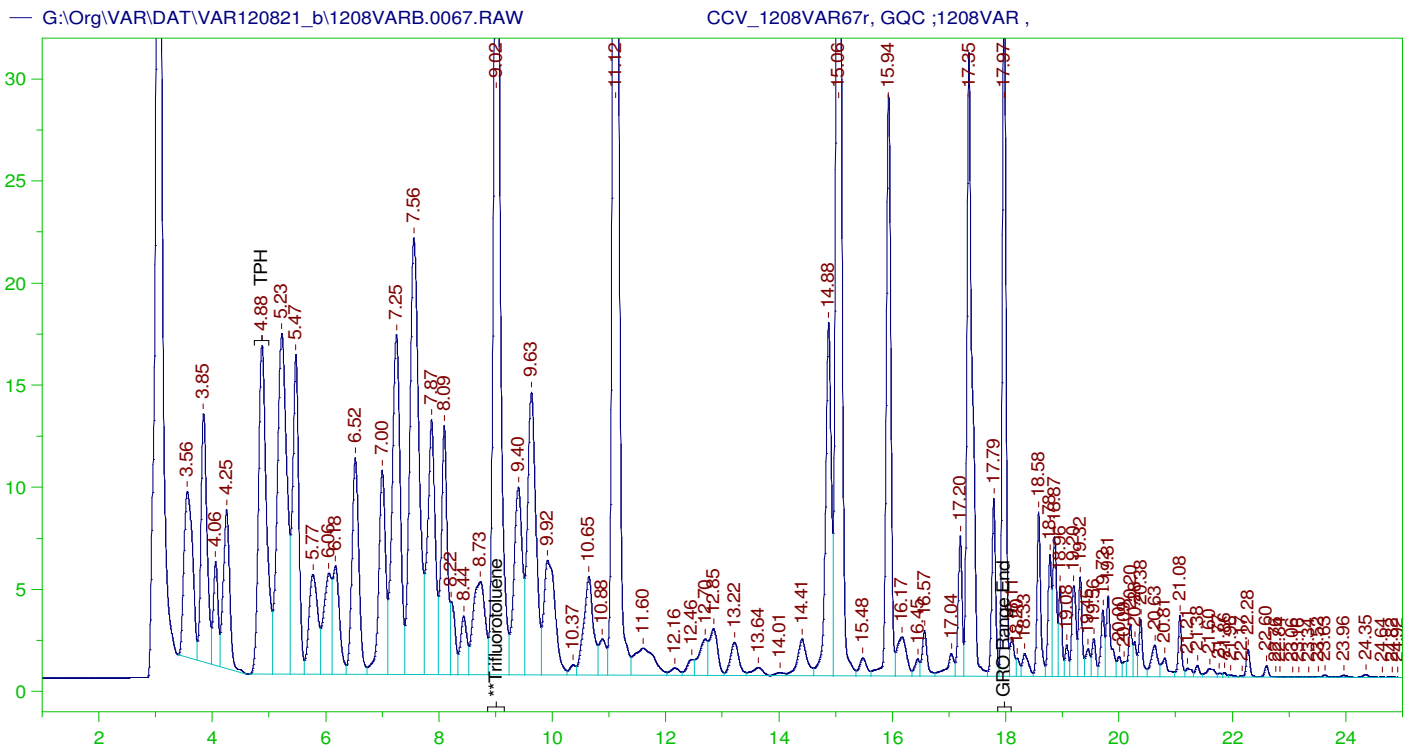
GRO Area:838552.8 GRO Amount: 855.6846
TPH Area:967665.8 TPH Amount: 1012.547

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0066.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	855.68	101.87	85-115
TPH	1000.	1012.55	101.25	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.013	125.	114.232	91.39	85-115

G:\org\VAR\dat\VAR120821_b\Review\066_CCV_1208VAR66r_211208GROG3B%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208VAR67r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0067.RAW
Date & Time Acquired: 12/10/2021 4:33:58 AM
Method File: G:\Org\VAR\Methods\211208GROG4B%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.016	125.	425.901	340.72	-

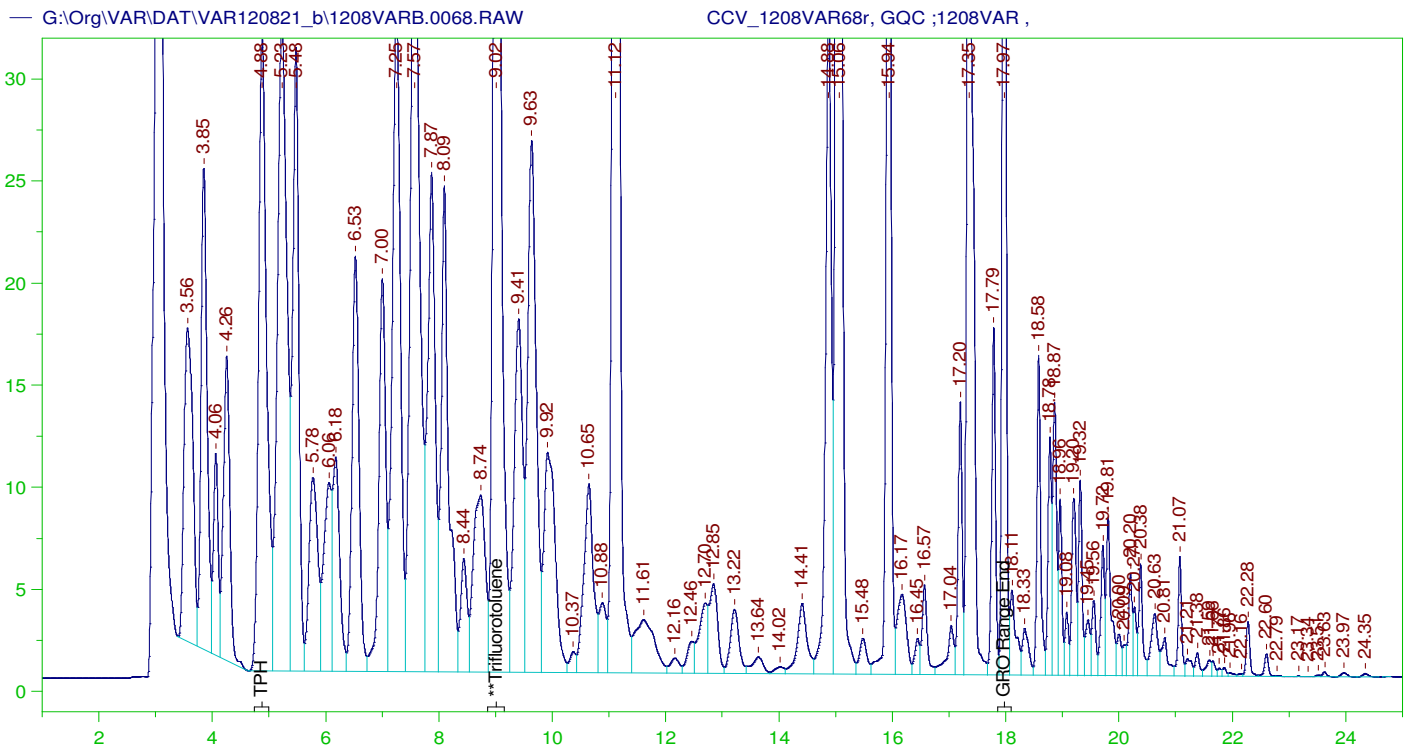
GRO Area:3749824 GRO Amount: 3826.434
TPH Area:4369213 TPH Amount: 4571.862

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0067.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	3826.43	455.53	85-115
TPH	1000.	4571.86	457.19	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.016	125.	425.901	340.72	85-115

G:\org\VAR\dat\VAR120821_b\Review\067_CCV_1208VAR67r_211208GROG4B%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_1208VAR68r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0068.RAW
Date & Time Acquired: 12/10/2021 5:08:06 AM
Method File: G:\Org\VAR\Methods\211208GROG5B%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

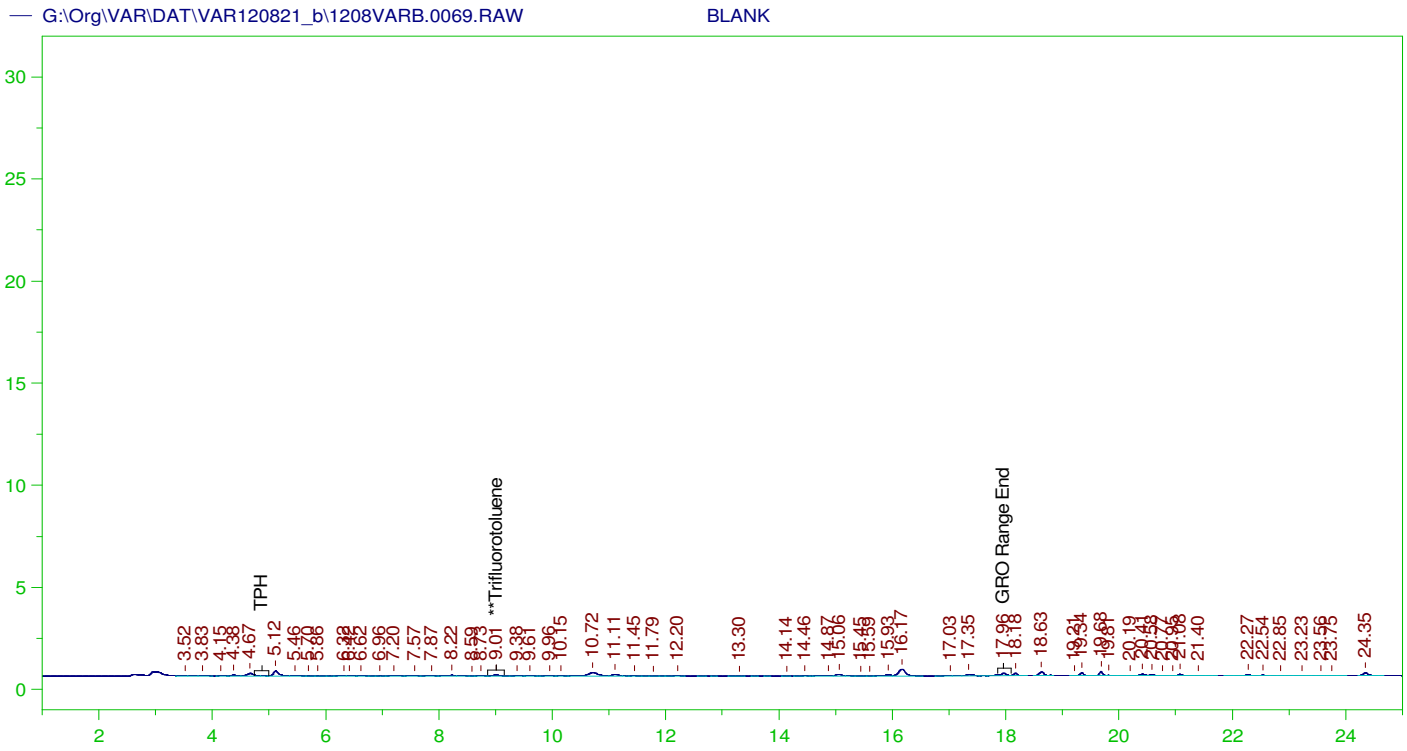
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.017	125.	841.684	673.35	-

GRO Area:7294716 GRO Amount: 7443.749
TPH Area:8502283 TPH Amount: 8896.629

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0068.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	7443.75	886.16	85-115
TPH	1000.	8896.63	889.66	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.017	125.	841.684	673.35	85-115



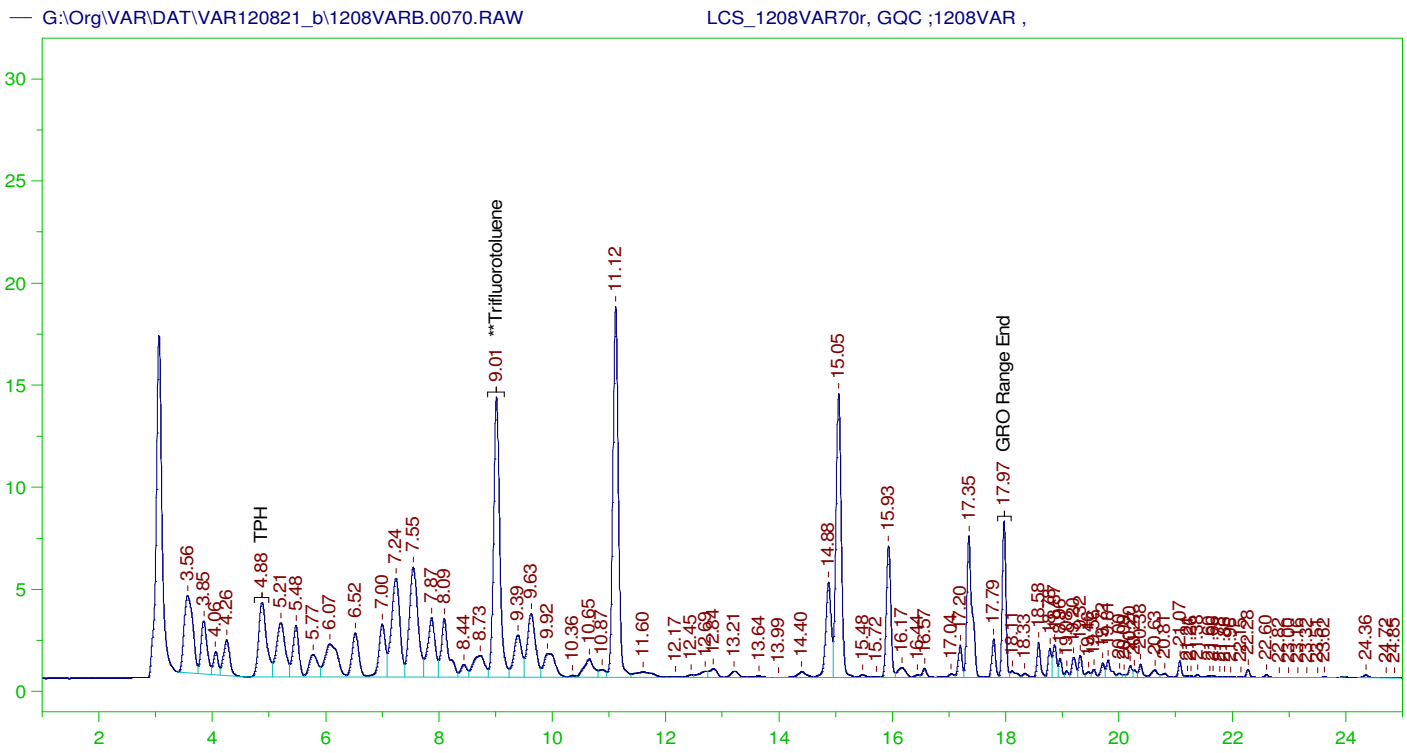
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0069.RAW
Date & Time Acquired: 12/10/2021 5:42:13 AM
Method File: G:\Org\VAR\Methods\211208GROB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.009	125.	.652	.52	-

GRO Area:18467.79 GRO Amount: 18.84509
TPH Area:28108.1 TPH Amount: 29.41179



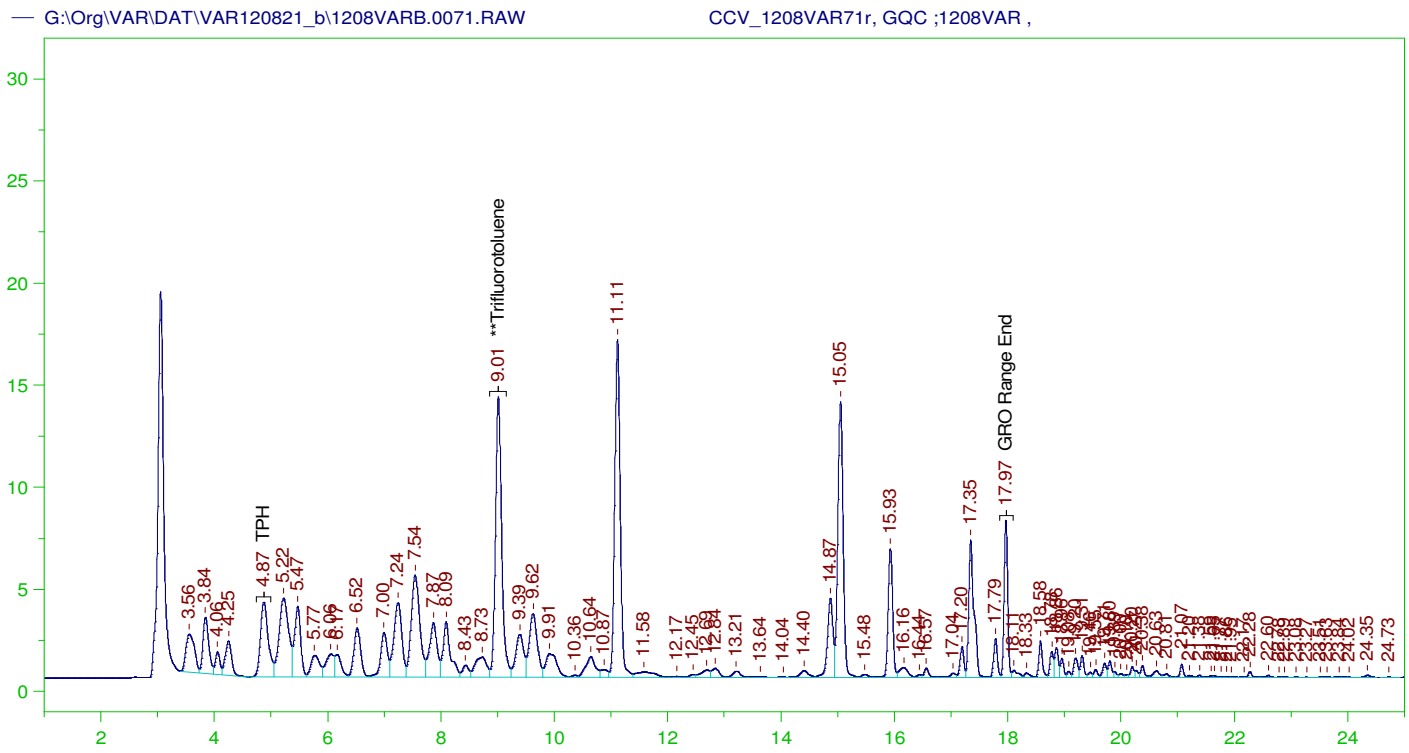
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_1208VAR70r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0070.RAW
Date & Time Acquired: 12/10/2021 6:16:20 AM
Method File: G:\Org\VAR\Methods\211208GROICVB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.015	25.	22.357	89.43	-

GRO Area:841624.8 GRO Amount: 171.7639
TPH Area:1002827 TPH Amount: 209.8679



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT
Sample Name: CCV_1208VAR71r, GQC ;1208VAR ,
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0071.RAW
Date & Time Acquired: 12/10/2021 6:50:26 AM
Method File: G:\Org\VAR\Methods\211208GROCCVB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	125.	113.197	90.56	-

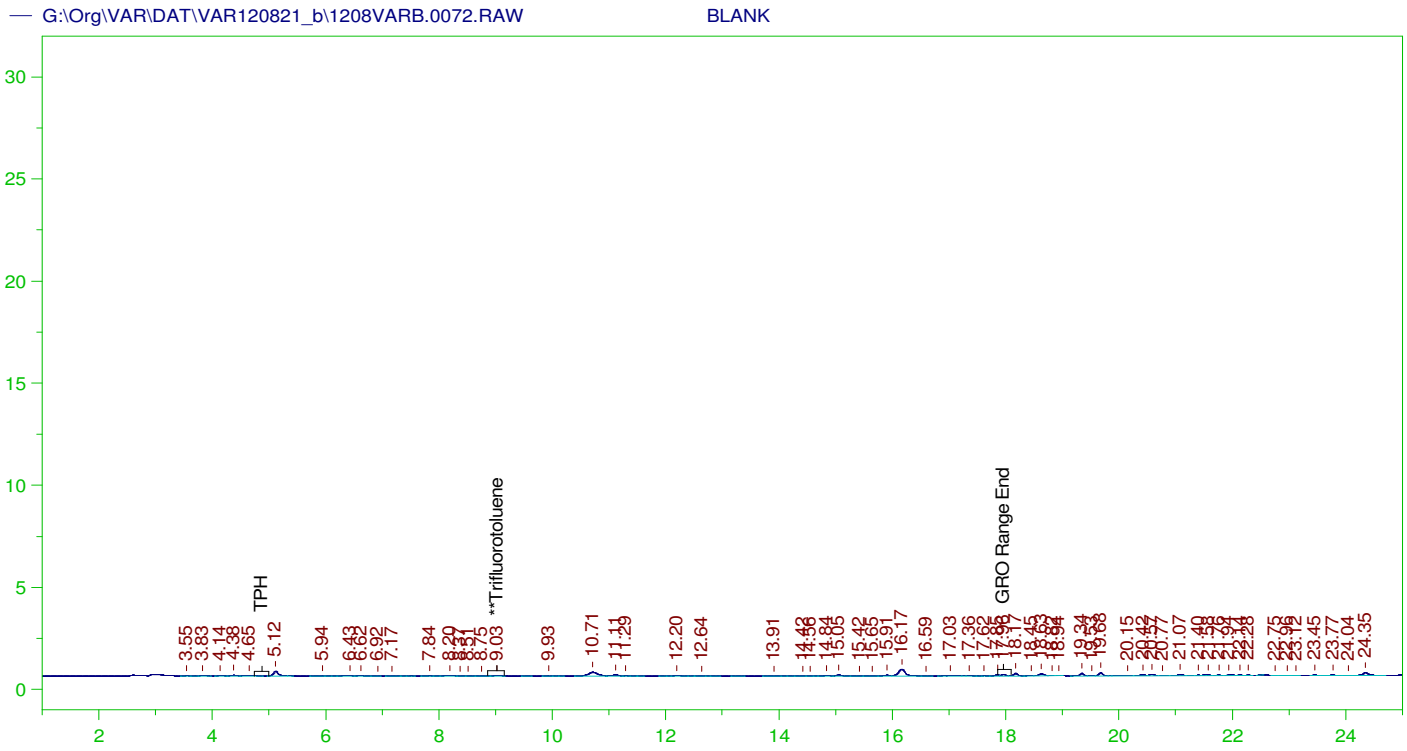
GRO Area:821239.7 GRO Amount: 838.0178
TPH Area:954780.1 TPH Amount: 999.064

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0071.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
GRO	840.	838.02	99.76	85-115
TPH	1000.	999.06	99.91	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.012	125.	113.197	90.56	85-115

G:\org\VAR\dat\VAR120821_b\Review\071_CCV_1208VAR71r_211208GROCCVB%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR120821_b\1208VARB.0072.RAW
Date & Time Acquired: 12/10/2021 7:24:31 AM
Method File: G:\Org\VAR\Methods\211208GROB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for GRO: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.026	125.	.179	.14	-

GRO Area:13332.14 GRO Amount: 13.60451
TPH Area:23127.14 TPH Amount: 24.19981

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\VAR\DAT\VAR120821_b\1208VAR.60r	CCV_1208VAR60r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.61r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.62r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.63r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.64r	CCV_1208VAR64r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.65r	CCV_1208VAR65r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.66r	CCV_1208VAR66r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.67r	CCV_1208VAR67r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.68r	CCV_1208VAR68r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.69r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR120821_b\1208VAR.70r	LCS_1208VAR70r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.71r	CCV_1208VAR71r, GQC ;1208VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR120821_b\1208VAR.72r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None

Josie M Pickard
Chemist

Digitally signed by
Josie Pickard
Date: 2022.02.19 09:19:25 -07:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

19-Feb-22

Run ID VARIAN1_220217A

Run Start Date:	2/17/2022
Analyst:	Josie Pickard
Ical:	0
Column ID:	Rtx-502.2
Comments:	Evaluated to include 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
GAS220104	Unleaded Gasoline Comp. Std.(2.0uL)	2	ul			CCV	6/7/2023
GQC211012	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
TFT220209	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
15043486	CCV_0217VAR	HC-8015-GRO-	SAMP		2/17/2022 9:35:1	1	R374900		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	196.9319	196.9319		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	203.0789	203.0789		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	19.25952	19.25952		25	0	0	0.147	1	0	77%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043487	CCV_0217VAR	HC-8015-GRO-	CCV		2/17/2022 10:09:	1	R374900		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	177.0465	177.0465		168	0	0	2.01	20	0	105%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	212.9392	212.9392		200	0	0	3.08	20	0	106%	80	120	0%	
Trifluorotoluene	S	ug/L	22.13131	22.13131		25	0	0	0.147	1	0	89%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043488	LCS_0217VAR0	HC-8015-GRO-	LCS		2/17/2022 10:43:	1	R374900		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	169.3348	169.3348		170	0	0	2.01	20	0	100%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	205.2413	205.2413		200	0	0	3.08	20	0	103%	70	130	0%	
Trifluorotoluene	S	ug/L	21.53225	21.53225		25	0	0	0.147	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
15043489	MBLK_0217VA	HC-8015-GRO-	MBLK		2/17/2022 11:51:	1	R374900		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	2.01	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	18.84675	18.84675		25	0	0	0.147	1	0	75%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043490	B22020962-031	HC-8015-GRO-	SAMP		2/17/2022 12:59:	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	3.043236	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.50311	18.50311		25	0	0	0.147	1	0	74%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043491	B22020962-028	HC-8015-GRO-	SAMP		2/17/2022 2:07:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.81641	18.81641		25	0	0	0.147	1	0	75%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043492	B22020962-002	HC-8015-GRO-	SAMP		2/17/2022 2:41:3	1	R374900		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
15043492	B22020962-002	HC-8015-GRO-	SAMP		2/17/2022 2:41:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.518823	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.26948	18.26948		25	0	0	0.147	1	0	73%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043493	B22020962-007	HC-8015-GRO-	SAMP		2/17/2022 3:15:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.01247	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.11809	18.11809		25	0	0	0.147	1	0	72%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043494	B22020962-012	HC-8015-GRO-	SAMP		2/17/2022 3:49:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.714752	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	19.03171	19.03171		25	0	0	0.147	1	0	76%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043495	B22020962-018	HC-8015-GRO-	SAMP		2/17/2022 4:23:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.2995	18.2995		25	0	0	0.147	1	0	73%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043496	B22020962-022	HC-8015-GRO-	SAMP		2/17/2022 4:57:3	1	R374900		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
15043496	B22020962-022	HC-8015-GRO-	SAMP		2/17/2022 4:57:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.617196	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.89817	18.89817		25	0	0	0.147	1	0	76%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043497	B22020962-033	HC-8015-GRO-	SAMP		2/17/2022 5:31:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	3.01866	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.54766	18.54766		25	0	0	0.147	1	0	74%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043498	B22020962-001	HC-8015-GRO-	SAMP		2/17/2022 6:05:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.01653	18.01653		25	0	0	0.147	1	0	72%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043499	B22020962-031	HC-8015-GRO-	MS		2/17/2022 7:13:3	1	R374900		2E+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	170.9322	170.9322		170	0	0	2.01	20	0	101%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	207.1263	207.1263		200	0	0	3.08	20	0	104%	70	130	0%	
Trifluorotoluene	S	ug/L	21.7241	21.7241		25	0	0	0.147	1	0	87%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043500	B22020962-031	HC-8015-GRO-	MSD		2/17/2022 7:47:4	1	R374900		2E+07	2E+07	

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
15043500	B22020962-031	HC-8015-GRO-	MSD		2/17/2022 7:47:4	1	R374900		2E+07	2E+07	

Analyte	T	Units	RAW	Final	Text	Spike	SPKref	RPDref	MDL	PQL	UQL	%REC	LOW	HIGH	%RPD	Q
C6 to C10	A	ug/L	167.9344	167.9344		170	0	170.9322	2.01	20	0	99%	78	122	2%	
Total Purgeable Hydrocarbons	A	ug/L	203.3998	203.3998		200	0	207.1263	3.08	20	0	102%	70	130	2%	
Trifluorotoluene	S	ug/L	21.2661	21.2661		25	0	0	0.147	1	0	85%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043501	CCV_0217VAR	HC-8015-GRO-	SAMP		2/17/2022 8:55:4	1	R374900		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	187.7906	187.7906		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	193.6517	193.6517		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	18.06055	18.06055		25	0	0	0.147	1	0	72%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043502	CCV_0217VAR	HC-8015-GRO-	CCV		2/17/2022 9:29:4	1	R374900		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	169.8907	169.8907		168	0	0	2.01	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	204.1049	204.1049		200	0	0	3.08	20	0	102%	80	120	0%	
Trifluorotoluene	S	ug/L	21.03843	21.03843		25	0	0	0.147	1	0	84%	80	120	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043503	LCS_0217VAR2	HC-8015-GRO-	LCS		2/17/2022 10:03:	1	R374900		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	165.7275	165.7275		170	0	0	2.01	20	0	97%	78	122	0%	
Total Purgeable Hydrocarbons	A	ug/L	200.8158	200.8158		200	0	0	3.08	20	0	100%	70	130	0%	
Trifluorotoluene	S	ug/L	20.89451	20.89451		25	0	0	0.147	1	0	84%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043504	MBLK_0217VA	HC-8015-GRO-	MBLK		2/17/2022 11:11:	1	R374900		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
15043504	MBLK_0217VA	HC-8015-GRO-	MBLK		2/17/2022 11:11:	1	R374900		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	2.01	10	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	10	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	18.3172	18.3172		25	0	0	0.147	1	0	73%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043505	B22020962-006	HC-8015-GRO-	SAMP		2/17/2022 11:45:	1	R374900		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	4.302615	4.302615		0	0	0	2.01	20	0	0%	0	0	0%	J
Total Purgeable Hydrocarbons	A	ug/L	39.47186	39.47186		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	17.96473	17.96473		25	0	0	0.147	1	0	72%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043506	B22020962-011	HC-8015-GRO-	SAMP		2/18/2022 12:53:	1	R374900		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	2.300686	2.300686		0	0	0	2.01	20	0	0%	0	0	0%	J
Total Purgeable Hydrocarbons	A	ug/L	4.001225	4.001225		0	0	0	3.08	20	0	0%	0	0	0%	J
Trifluorotoluene	S	ug/L	18.45672	18.45672		25	0	0	0.147	1	0	74%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043507	B22020962-016	HC-8015-GRO-	SAMP		2/18/2022 2:01:5	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	0	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.18432	18.18432		25	0	0	0.147	1	0	73%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043508	B22020962-021	HC-8015-GRO-	SAMP		2/18/2022 3:10:0	1	R374900		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
15043508	B22020962-021	HC-8015-GRO-	SAMP		2/18/2022 3:10:0	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	13.2309	13.2309		0	0	0	3.08	20	0	0%	0	0	0%	J
Trifluorotoluene	S	ug/L	18.17465	18.17465		25	0	0	0.147	1	0	73%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043509	B22020962-026	HC-8015-GRO-	SAMP		2/18/2022 4:18:2	1	R374900		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	27.34637	27.34637		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	495.2651	495.2651		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	18.27168	18.27168		25	0	0	0.147	1	0	73%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043510	B22020962-032	HC-8015-GRO-	SAMP		2/18/2022 5:26:3	1	R374900		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	2.01	20	0	0%	0	0	0%	U
Total Purgeable Hydrocarbons	A	ug/L	2.269109	0		0	0	0	3.08	20	0	0%	0	0	0%	U
Trifluorotoluene	S	ug/L	18.33562	18.33562		25	0	0	0.147	1	0	73%	70	130	0%	

Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043511	CCV_0217VAR	HC-8015-GRO-	SAMP		2/18/2022 6:34:3	1	R374900		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	198.9942	198.9942		0	0	0	2.01	20	0	0%	0	0	0%	
Total Purgeable Hydrocarbons	A	ug/L	205.1089	205.1089		0	0	0	3.08	20	0	0%	0	0	0%	
Trifluorotoluene	S	ug/L	18.62444	18.62444		25	0	0	0.147	1	0	74%	70	130	0%	

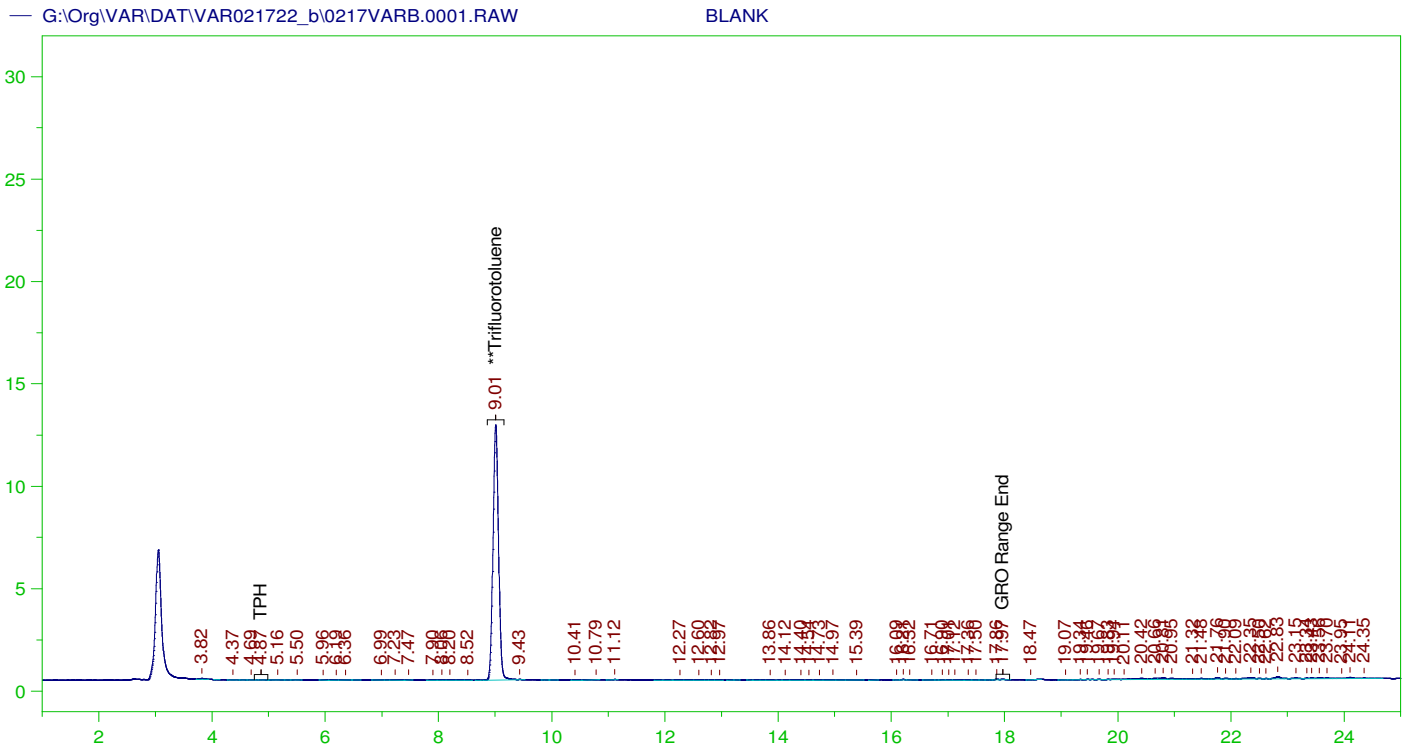
Seq No	Lab ID	Test Code	Sample Typ	File ID	Analysis Date	DF	Batch ID	Prep Date	SPKref	RPDref	pmoist
15043512	CCV_0217VAR	HC-8015-GRO-	CCV		2/18/2022 7:08:4	1	R374900		0	0	

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
15043512	CCV_0217VAR	HC-8015-GRO-	CCV		2/18/2022 7:08:4	1	R374900		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	169.9661	169.9661		168	0	0	2.01	20	0	101%	80	120	0%	
Total Purgeable Hydrocarbons	A	ug/L	205.4898	205.4898		200	0	0	3.08	20	0	103%	80	120	0%	
Trifluorotoluene	S	ug/L	21.16429	21.16429		25	0	0	0.147	1	0	85%	80	120	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\VAR\DAT\VAR021722_b\0217VAR.01r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.02r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.03r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.04r	CCV_0217VAR04r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.05r	CCV_0217VAR05r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.06r	LCS_0217VAR06r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.07r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.08r	MBLK_0217VAR08r, QC ;0217VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.09r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.10r	B22020962-031G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.11r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.12r	B22020962-028A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.13r	B22020962-002A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.14r	B22020962-007A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.15r	B22020962-012A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.16r	B22020962-018A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.17r	B22020962-022A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.18r	B22020962-033A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.19r	B22020962-001G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.20r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.21r	B22020962-031GMS, GQC ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.22r	B22020962-031GMSD, GQC ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.23r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.24r	CCV_0217VAR24r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.25r	CCV_0217VAR25r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.26r	LCS_0217VAR26r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.27r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.28r	MBLK_0217VAR28r, QC ;0217VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.29r	B22020962-006G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.30r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.31r	B22020962-011G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.32r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.33r	B22020962-016G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.34r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.35r	B22020962-021G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.36r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.37r	B22020962-026G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.38r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.39r	B22020962-032D ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.40r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.41r	CCV_0217VAR41r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.42r	CCV_0217VAR42r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0
G:\Org\VAR\DAT\VAR021722_b\0217VAR.43r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0



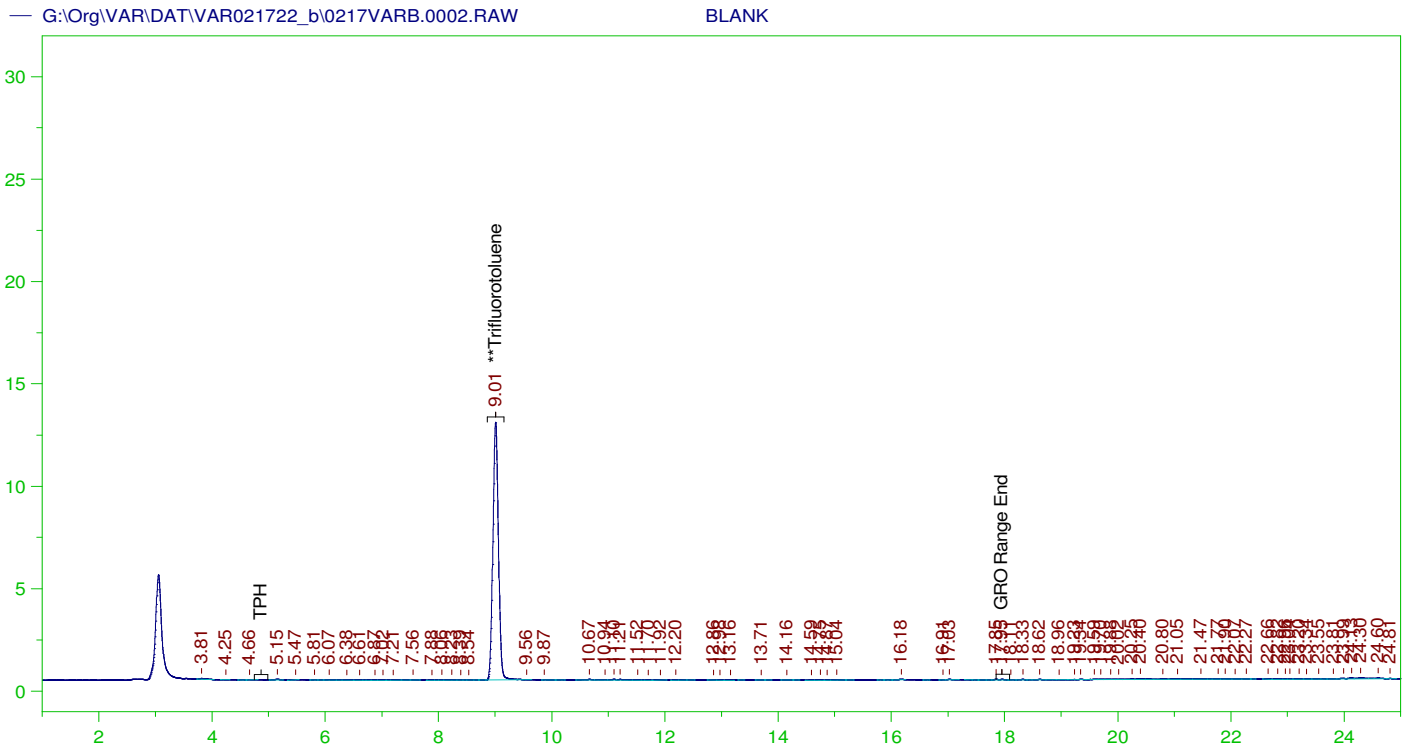
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0001.RAW
Date & Time Acquired: 2/17/2022 7:53:16 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	125.	92.389	73.91	-

C6 to C10 Area:4305.264 C6 to C10 Amount: 4.393221
TPH Area:12907.21 TPH Amount: 13.50586



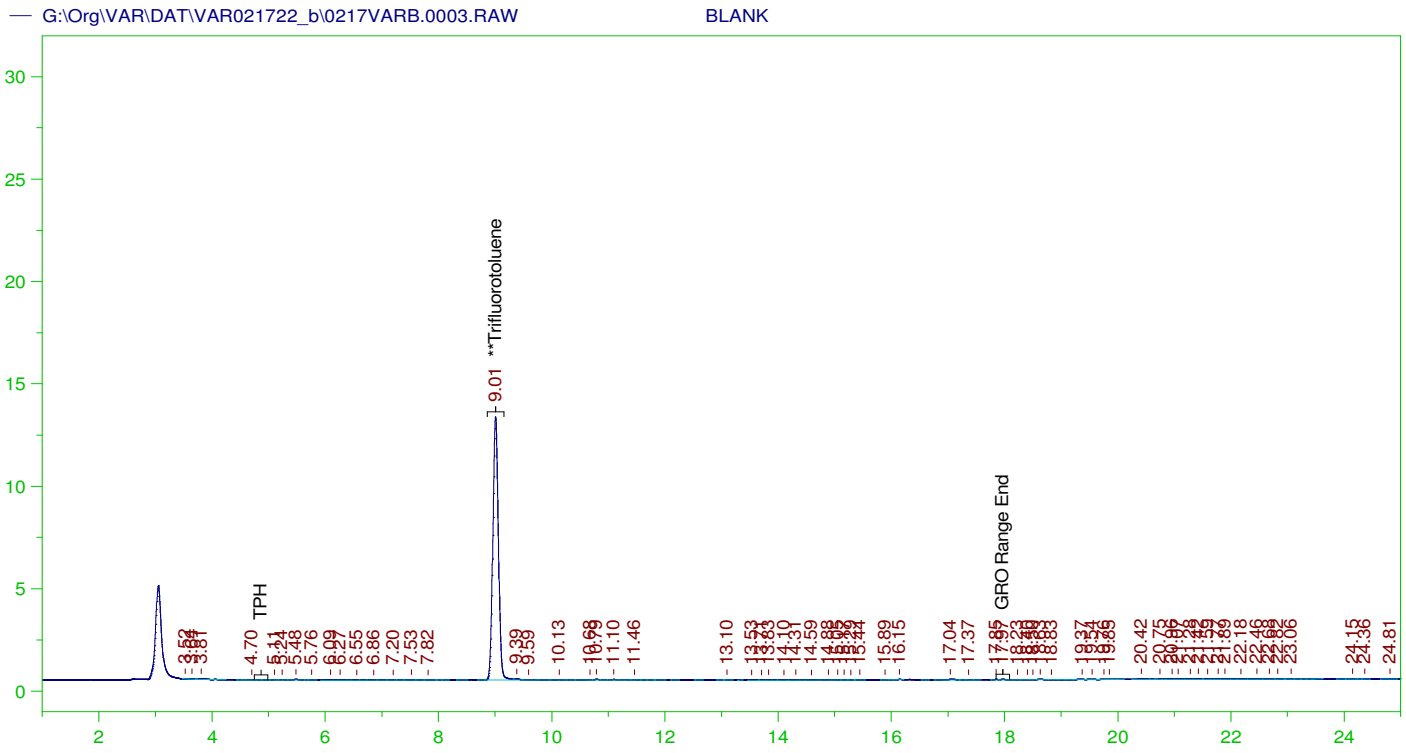
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0002.RAW
Date & Time Acquired: 2/17/2022 8:27:14 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	125.	93.399	74.72	-

C6 to C10 Area:5136.277 C6 to C10 Amount: 5.241212
TPH Area:10629.74 TPH Amount: 11.12276



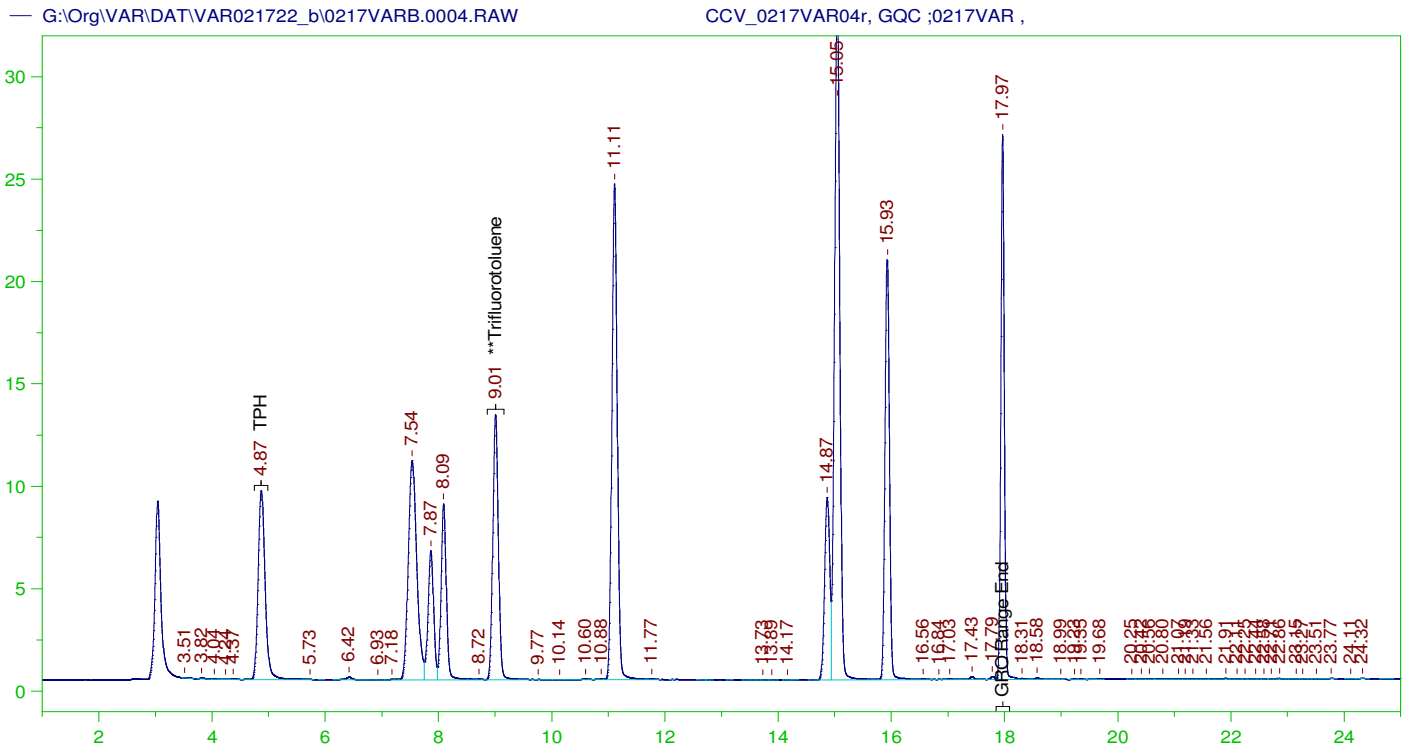
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0003.RAW
Date & Time Acquired: 2/17/2022 9:01:13 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	125.	95.262	76.21	-

C6 to C10 Area:5230.163 C6 to C10 Amount: 5.337016
TPH Area:9648.554 TPH Amount: 10.09606



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0217VAR04r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0004.RAW
Date & Time Acquired: 2/17/2022 9:35:14 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

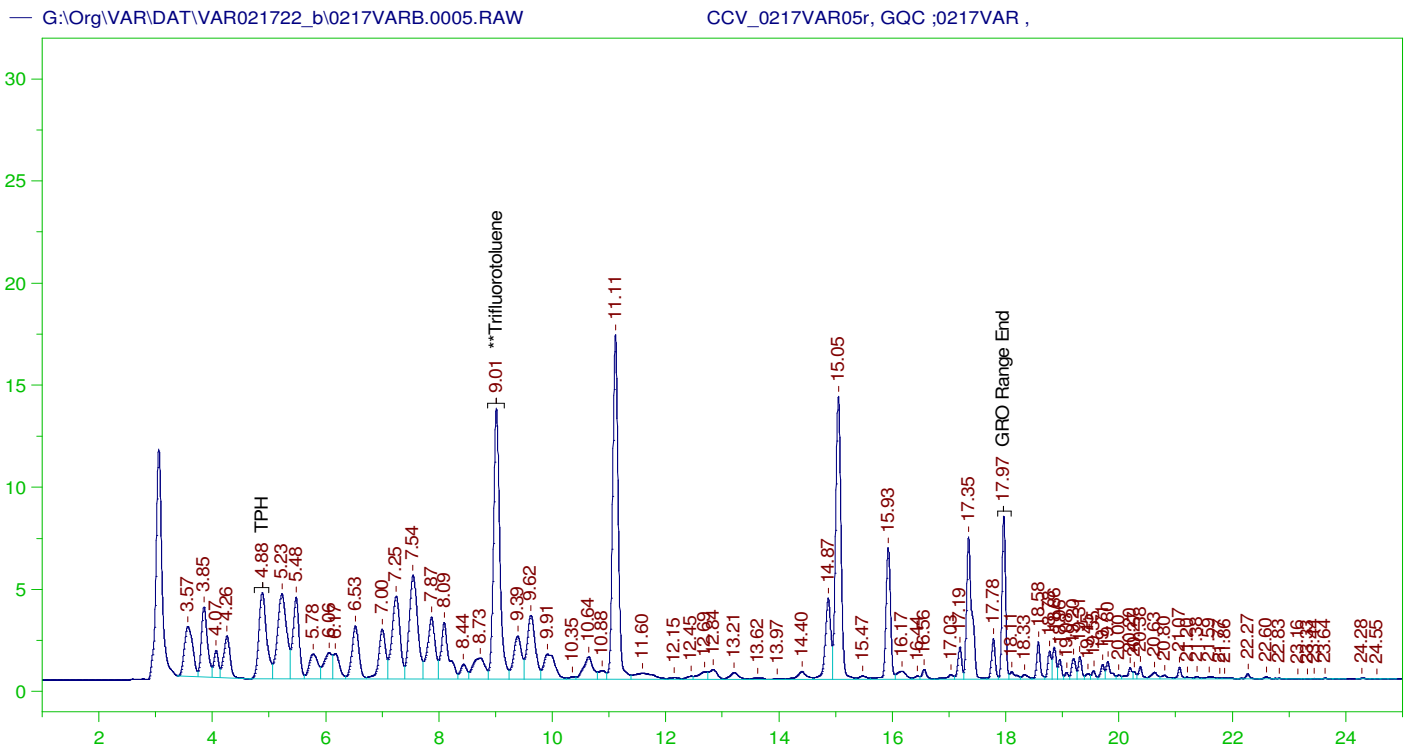
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.009	125.	96.298	77.04	-

C6 to C10 Area:964945.3 C6 to C10 Amount: 984.6594
TPH Area:970386.6 TPH Amount: 1015.394

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0004.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	984.66	117.22	85-115
TPH	1000.	1015.39	101.54	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.009	125.	96.298	77.04	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0217VAR05r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0005.RAW
Date & Time Acquired: 2/17/2022 10:09:15 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

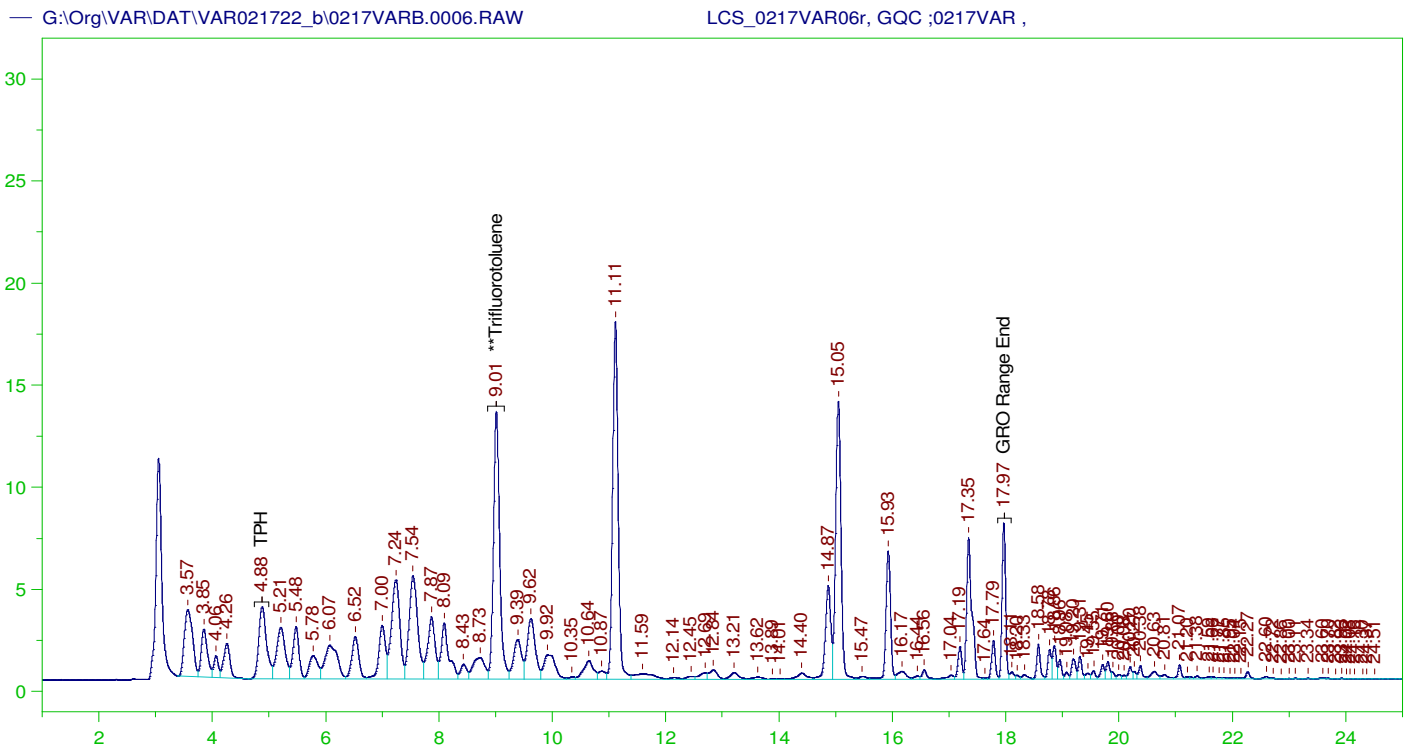
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	110.657	88.53	-

C6 to C10 Area:867509.1 C6 to C10 Amount: 885.2325
TPH Area:1017503 TPH Amount: 1064.696

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0005.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	885.23	105.38	85-115
TPH	1000.	1064.7	106.47	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.013	125.	110.657	88.53	85-115



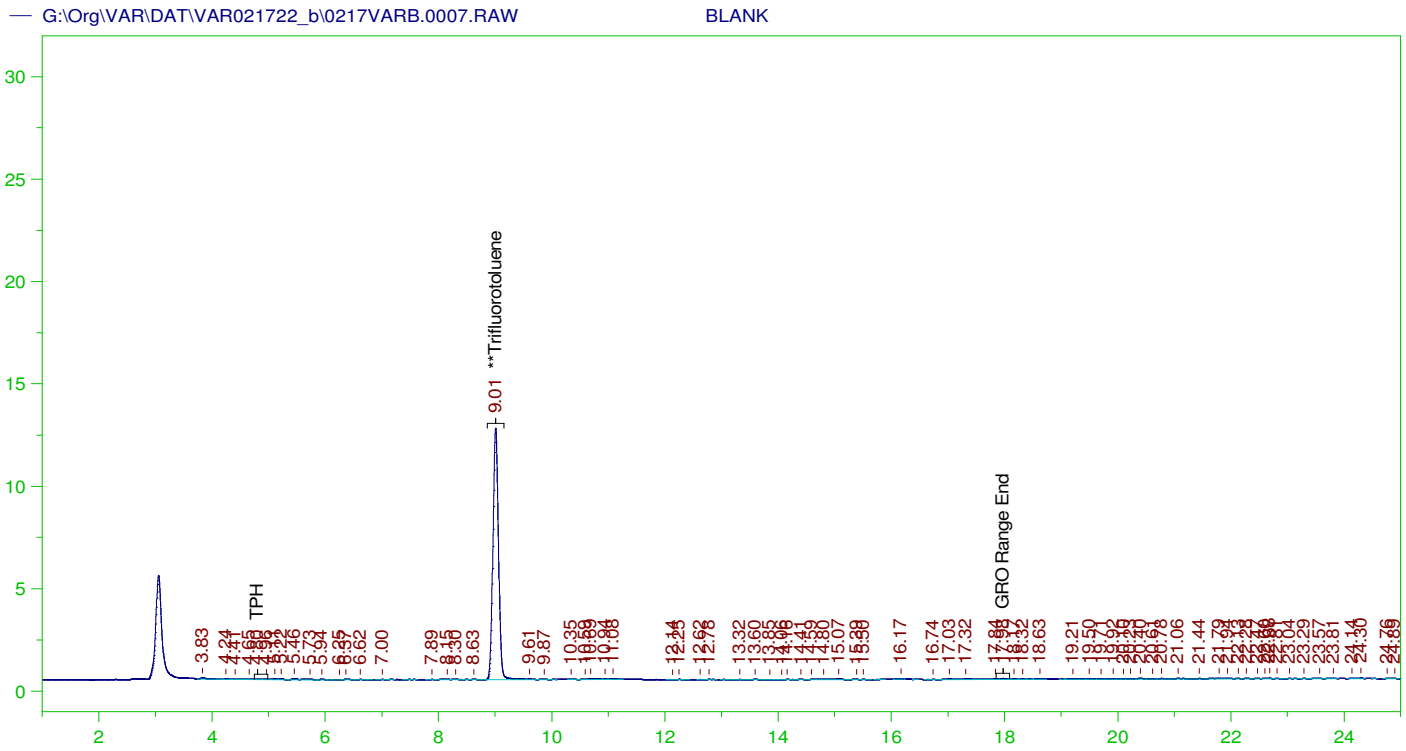
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_0217VAR06r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0006.RAW
Date & Time Acquired: 2/17/2022 10:43:12 AM
Method File: G:\Org\VAR\Methods\211208GLCS0217_06DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	25.	21.532	86.13	-

C6 to C10 Area:829722.6 C6 to C10 Amount: 169.3348
TPH Area:980719.6 TPH Amount: 205.2413



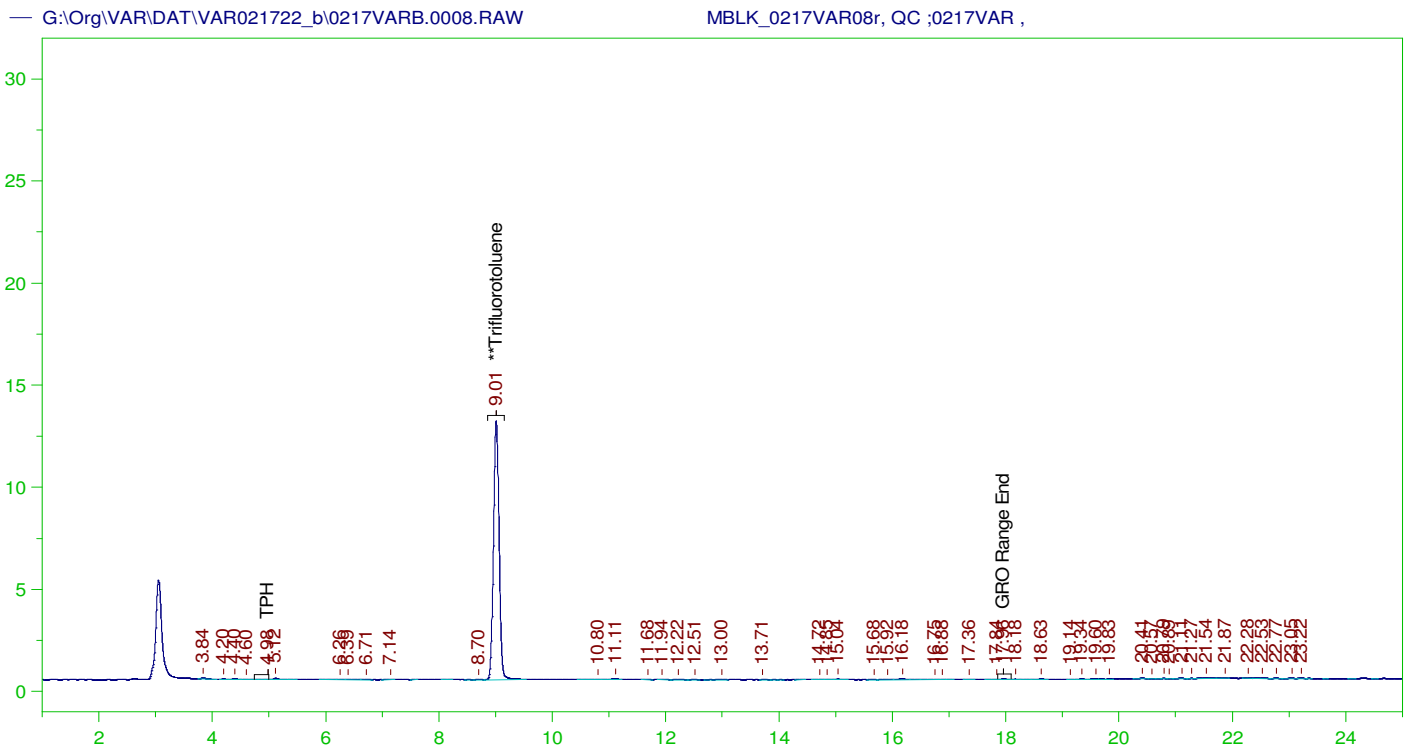
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0007.RAW
Date & Time Acquired: 2/17/2022 11:17:13 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	125.	91.271	73.02	-

C6 to C10 Area:6415.801 C6 to C10 Amount: 6.546877
TPH Area:11911.23 TPH Amount: 12.46369



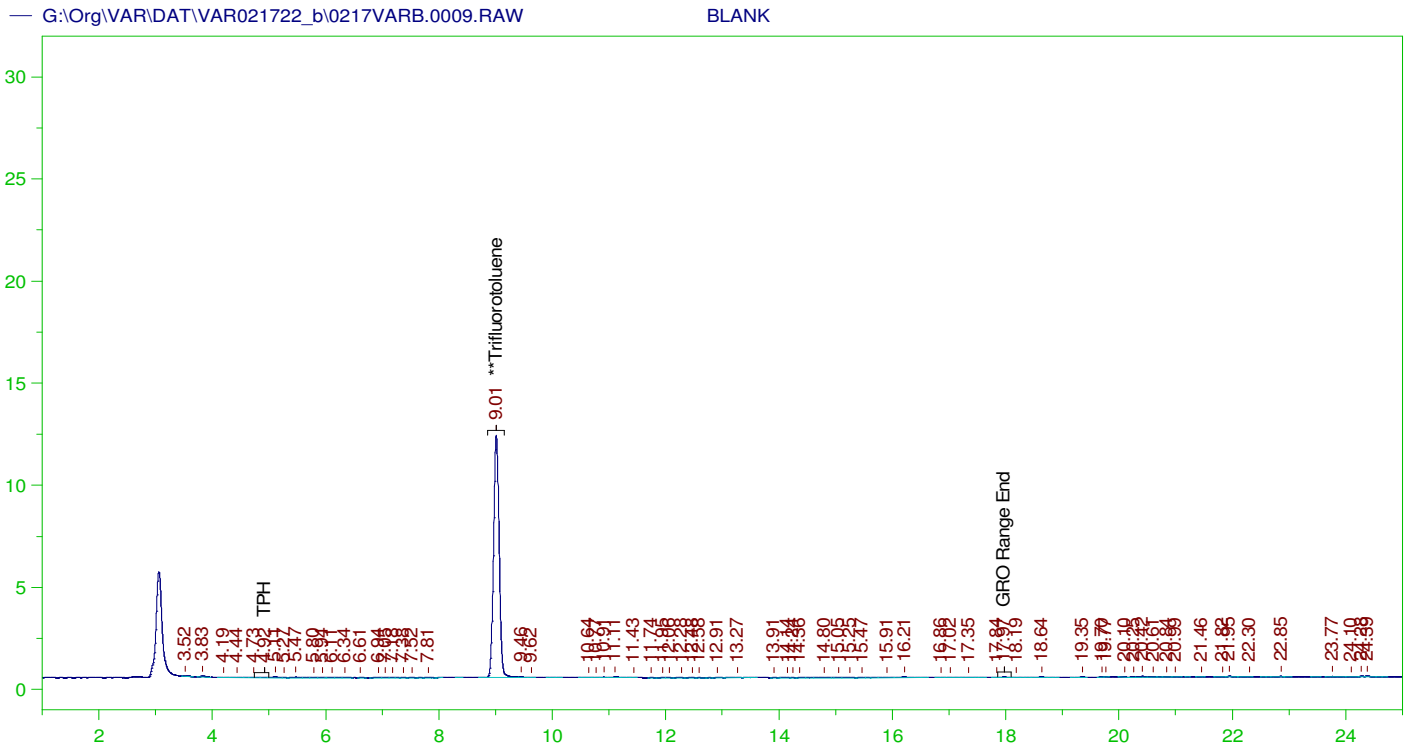
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_0217VAR08r, QC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0008.RAW
Date & Time Acquired: 2/17/2022 11:51:18 AM
Method File: G:\Org\VAR\Methods\211208GMB0217_08DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	25.	18.847	75.39	-

C6 to C10 Area:4341.068 C6 to C10 Amount: 0.8859514
TPH Area:8091.159 TPH Amount: 1.693287



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0009.RAW
Date & Time Acquired: 2/17/2022 12:25:20 PM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

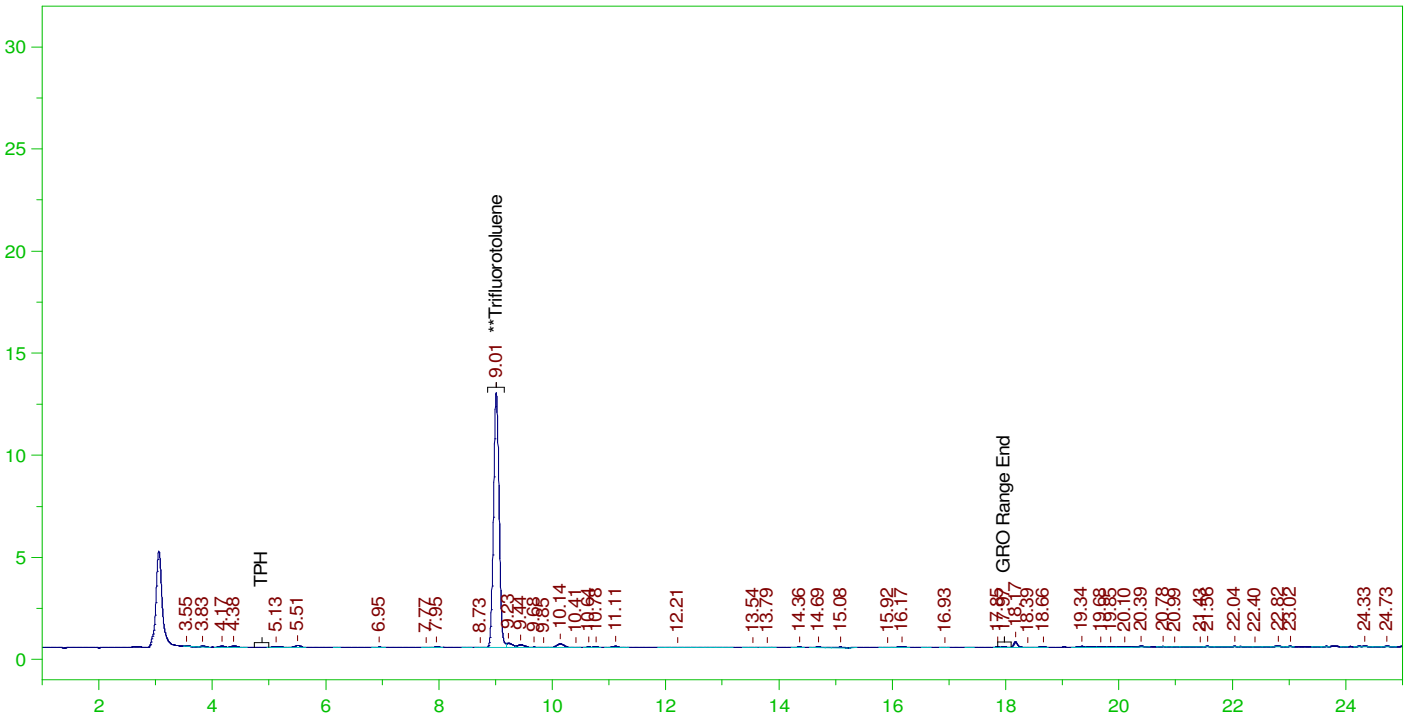
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	125.	88.391	70.71	-

C6 to C10 Area:6373.755 C6 to C10 Amount: 6.503972
TPH Area:9763.64 TPH Amount: 10.21649

ERH2526 (OWDFMW08A)

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0010.RAW B22020962-031G ;0217VAR , $HC-8015-GRO-W,



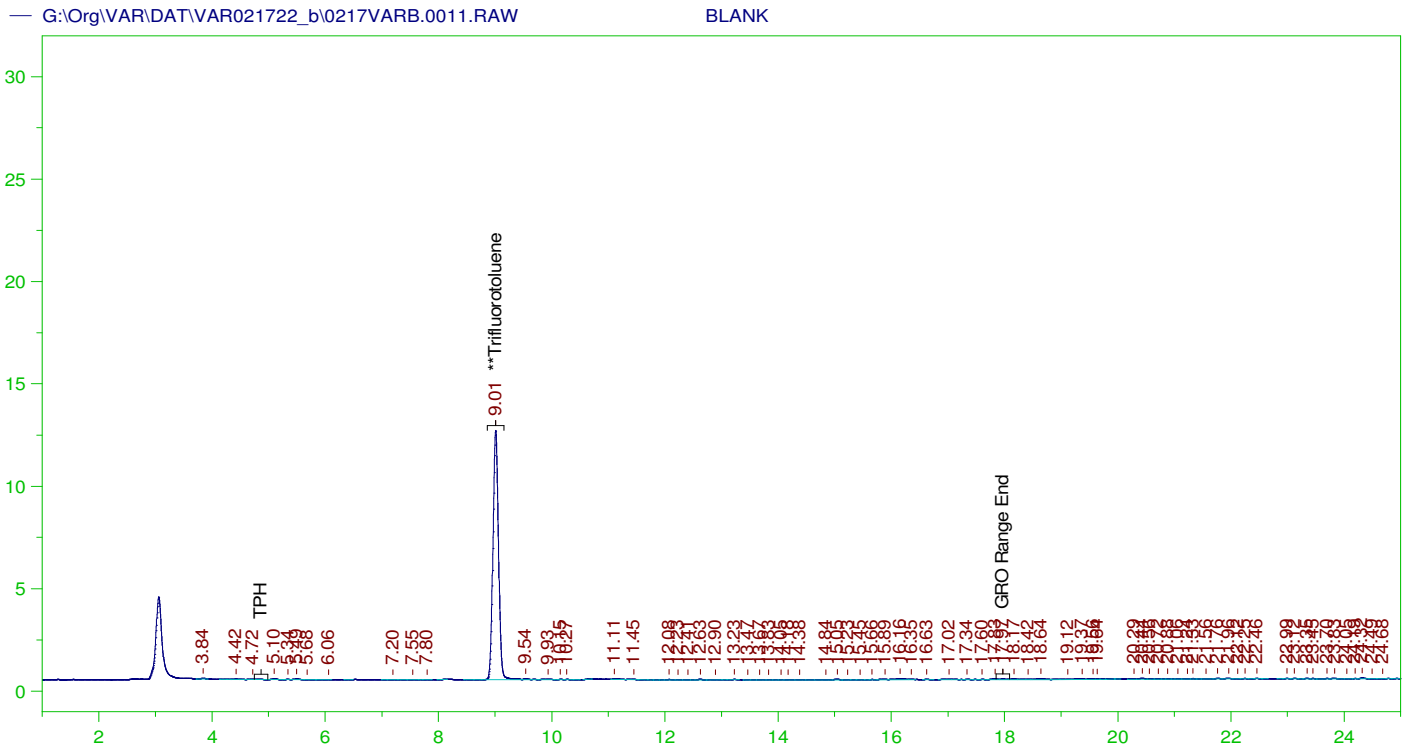
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-031G ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0010.RAW
Date & Time Acquired: 2/17/2022 12:59:26 PM
Method File: G:\Org\VAR\Methods\211208G962-31DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	25.	18.503	74.01	-

C6 to C10 Area:8746.21 C6 to C10 Amount: 1.784979
TPH Area:14541.72 TPH Amount: 3.043236



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0011.RAW
Date & Time Acquired: 2/17/2022 1:33:30 PM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

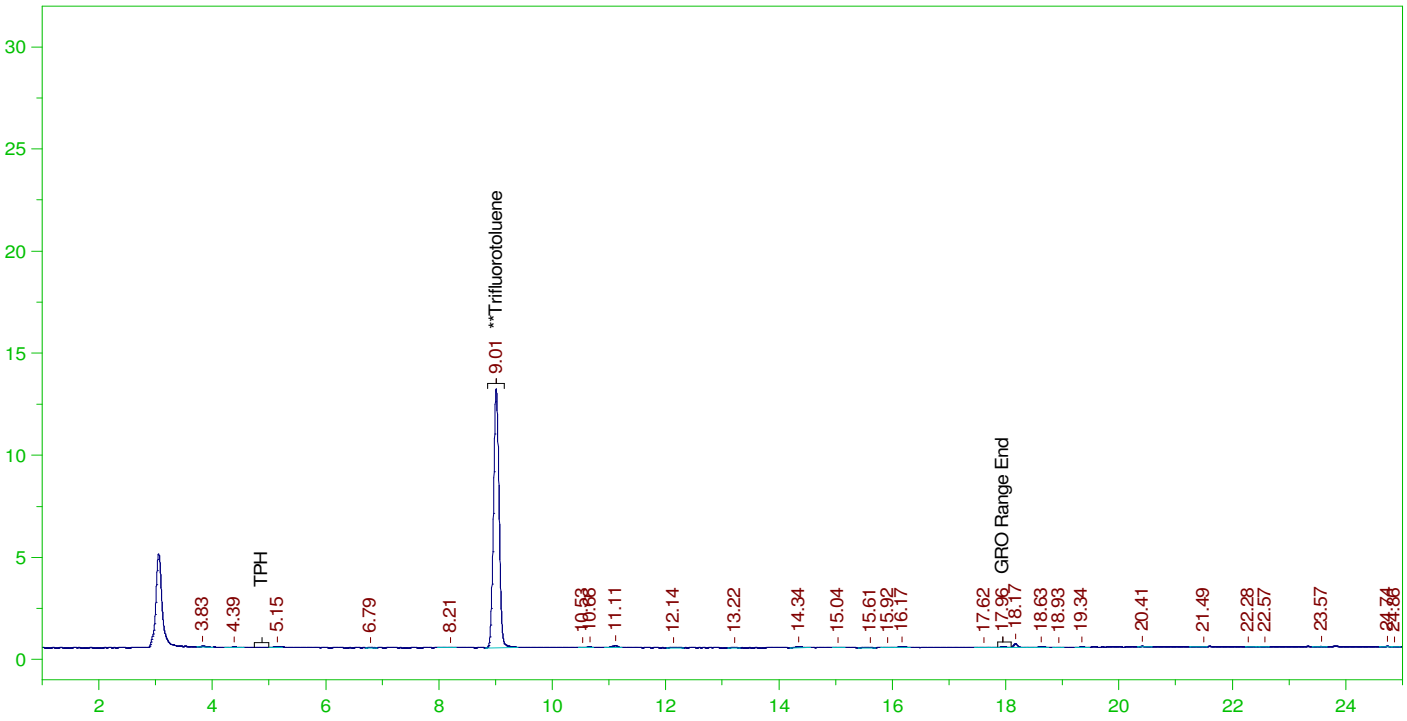
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	125.	90.698	72.56	-

C6 to C10 Area:5243.192 C6 to C10 Amount: 5.350312
TPH Area:10258.73 TPH Amount: 10.73454

ERH2536 (Trip Blank) 14754

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0012.RAW B22020962-028A ;0217VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-028A ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0012.RAW
Date & Time Acquired: 2/17/2022 2:07:33 PM
Method File: G:\Org\VAR\Methods\211208G962-28DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

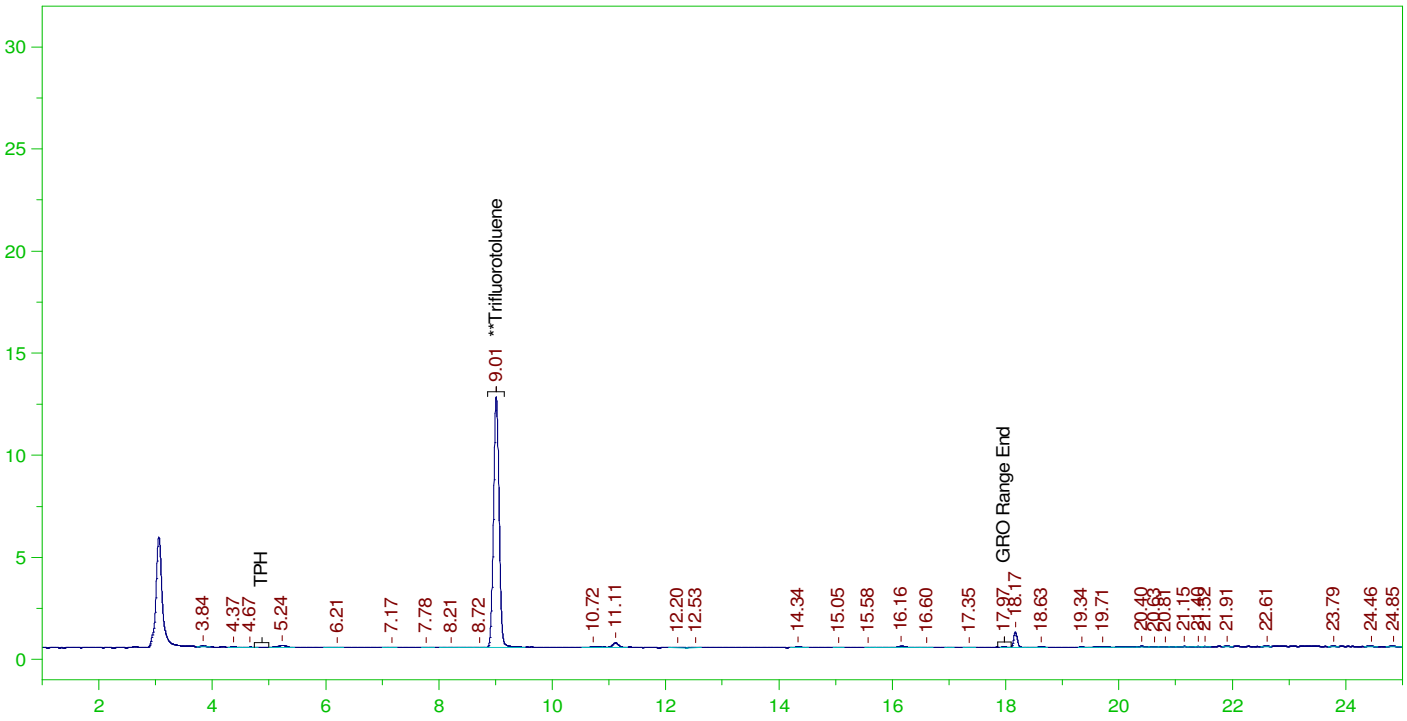
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.01	25.	18.816	75.27	-

C6 to C10 Area:3091.171 C6 to C10 Amount: 0.6308649
TPH Area:5769.81 TPH Amount: 1.207484

ERH2523 (Trip Blank) 14694

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0013.RAW B22020962-002A ;0217VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-002A ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0013.RAW
Date & Time Acquired: 2/17/2022 2:41:34 PM
Method File: G:\Org\VAR\Methods\211208G962-2DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

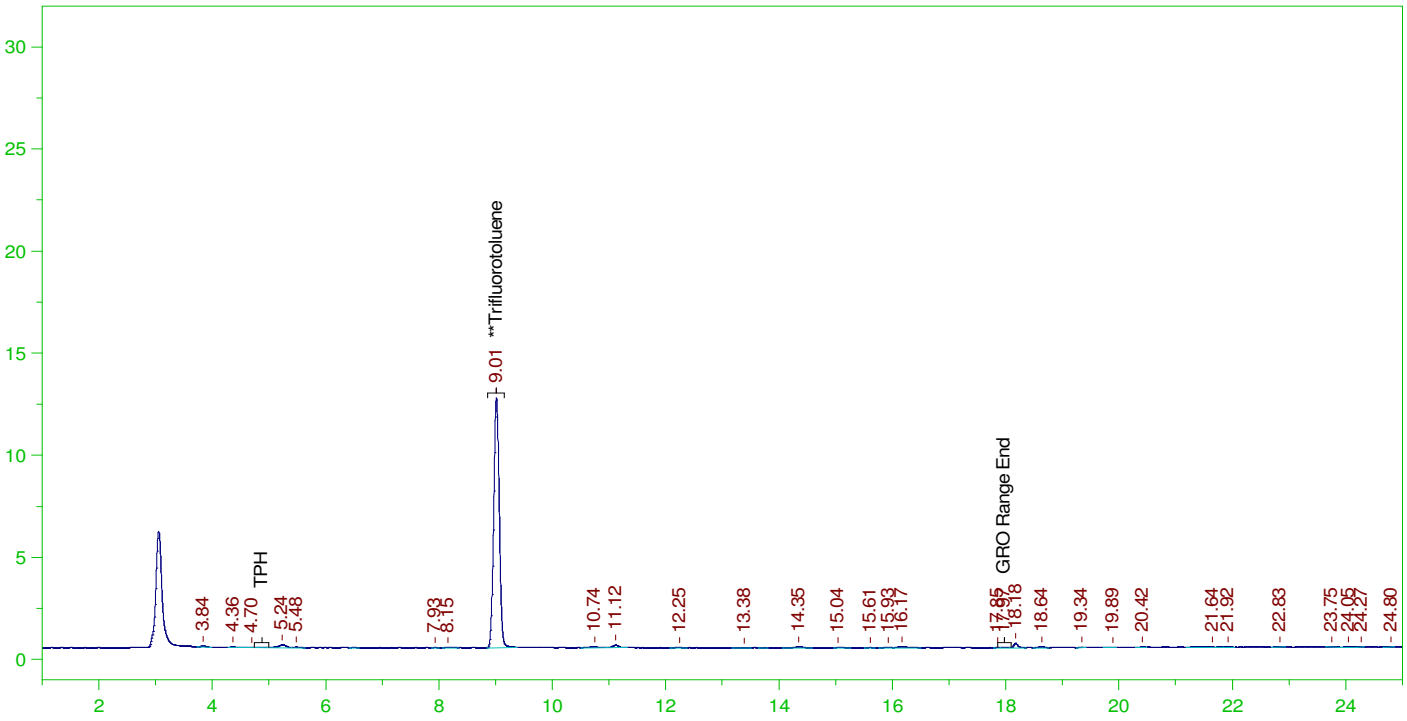
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	25.	18.269	73.08	-

C6 to C10 Area:5949.91 C6 to C10 Amount: 1.214293
TPH Area:12035.88 TPH Amount: 2.518823

ERH2530 (Trip Blank) 14694

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0014.RAW B22020962-007A ;0217VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-007A ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0014.RAW
Date & Time Acquired: 2/17/2022 3:15:36 PM
Method File: G:\Org\VAR\Methods\211208G962-7DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

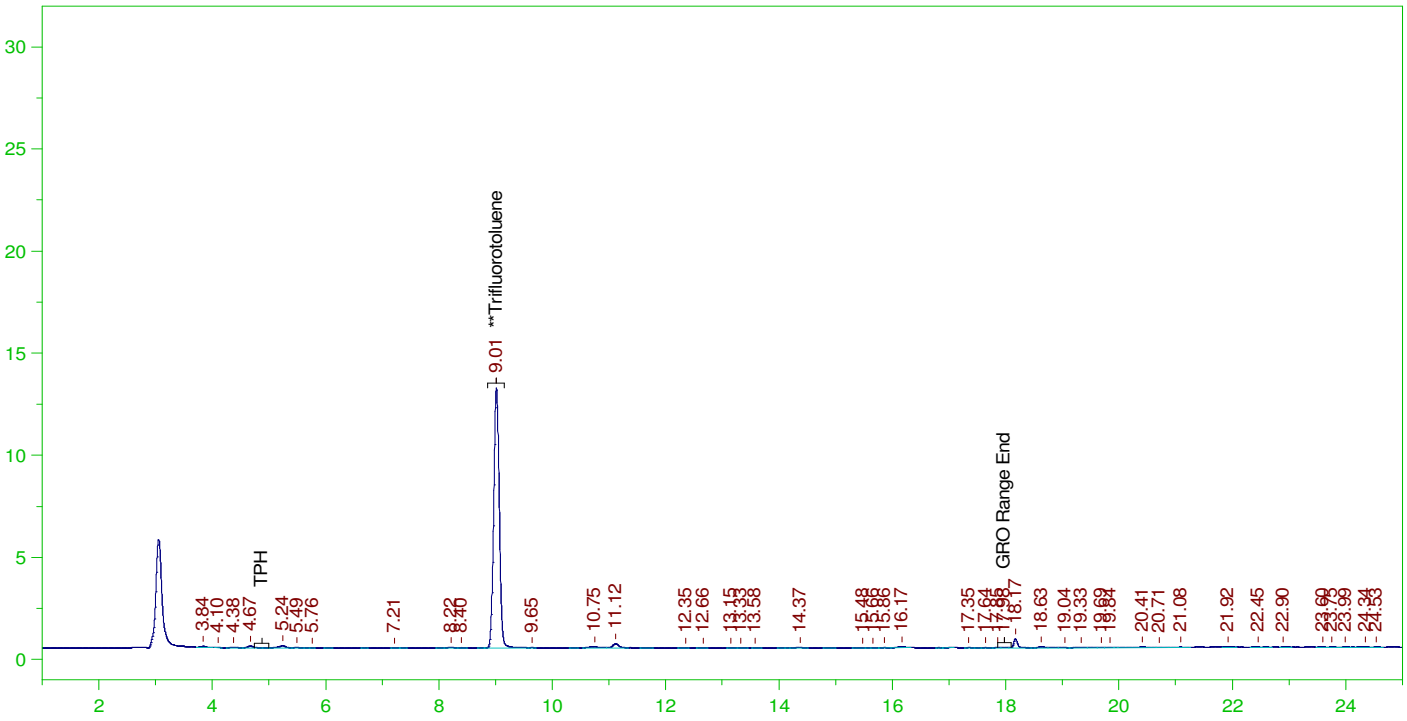
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	25.	18.118	72.47	-

C6 to C10 Area:5979.317 C6 to C10 Amount: 1.220295
TPH Area:9616.334 TPH Amount: 2.01247

ERH2528 (Trip Blank) 14694

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0015.RAW B22020962-012A ;0217VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-012A ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0015.RAW
Date & Time Acquired: 2/17/2022 3:49:37 PM
Method File: G:\Org\VAR\Methods\211208G962-12DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

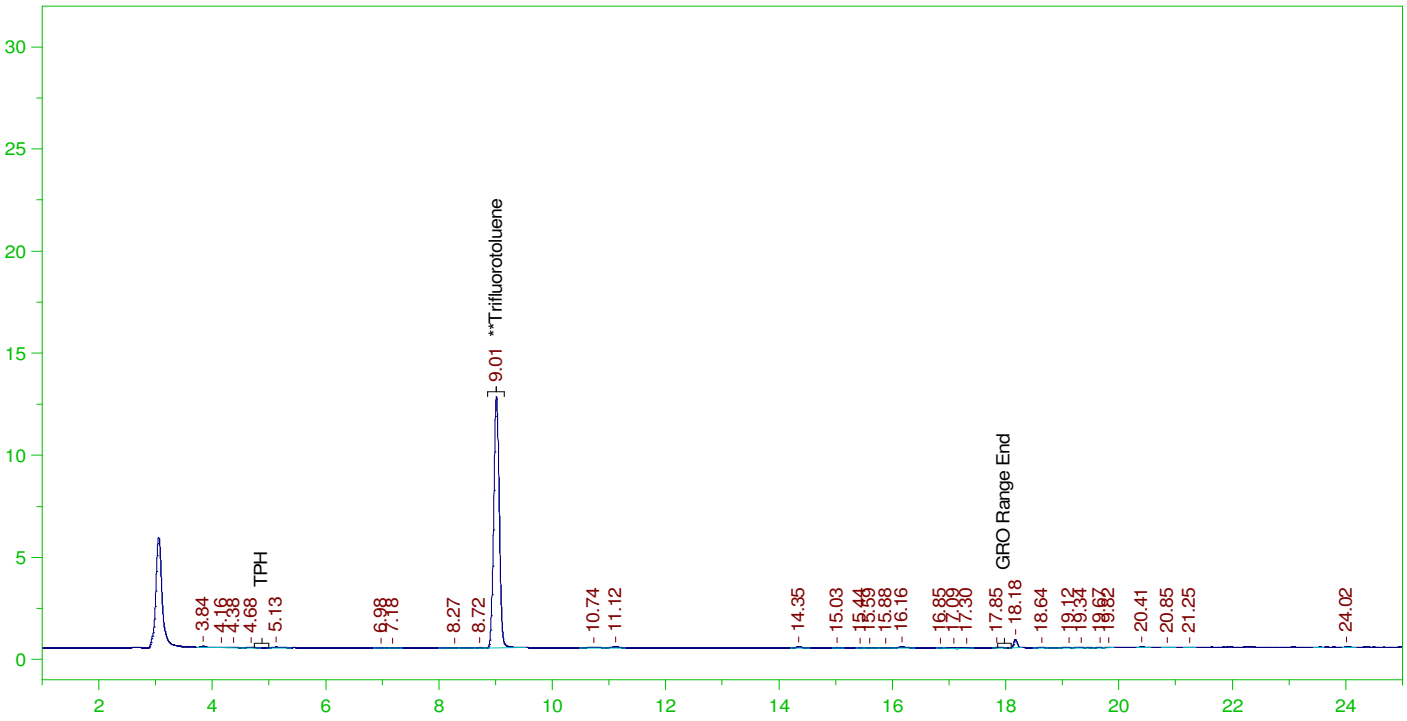
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	25.	19.032	76.13	-

C6 to C10 Area:6492.612 C6 to C10 Amount: 1.325052
TPH Area:12972.1 TPH Amount: 2.714752

ERH2534 (Trip Blank) 14754

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0016.RAW B22020962-018A ;0217VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-018A ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0016.RAW
Date & Time Acquired: 2/17/2022 4:23:38 PM
Method File: G:\Org\VAR\Methods\211208G962-18DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

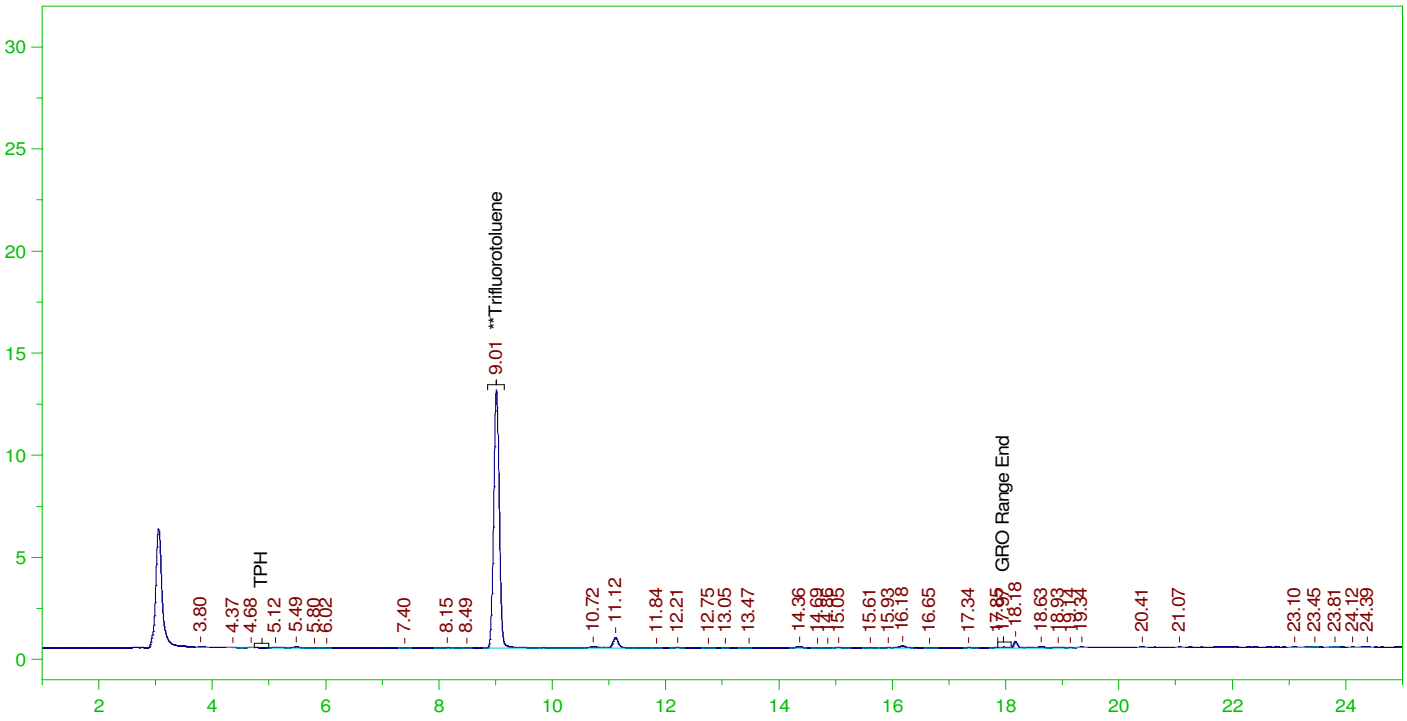
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	25.	18.3	73.2	-

C6 to C10 Area:4181.516 C6 to C10 Amount: 0.853389
TPH Area:8232.509 TPH Amount: 1.722868

ERH2532 (Trip Blank) 14694

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0017.RAW B22020962-022A ;0217VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-022A ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0017.RAW
Date & Time Acquired: 2/17/2022 4:57:36 PM
Method File: G:\Org\VAR\Methods\211208G962-22DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

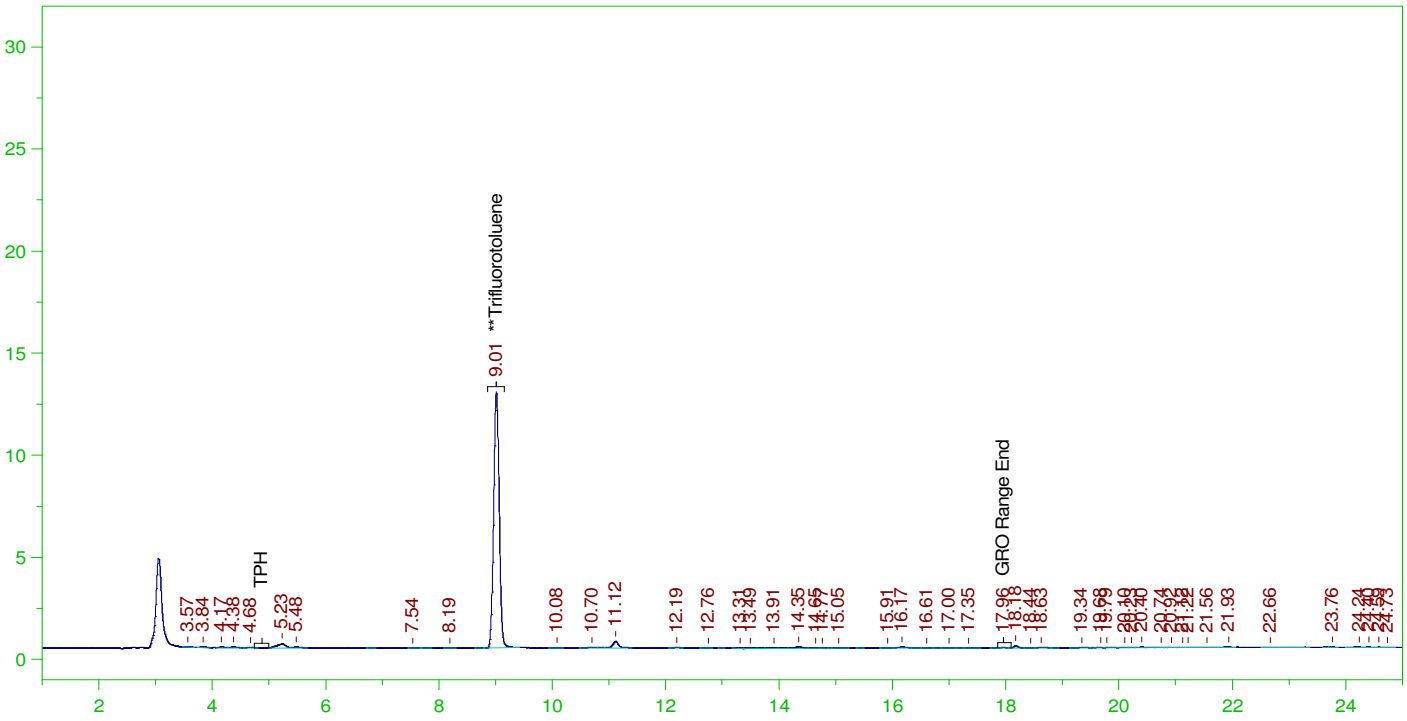
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	25.	18.898	75.59	-

C6 to C10 Area:8980.416 C6 to C10 Amount: 1.832778
TPH Area:12505.94 TPH Amount: 2.617196

ERH2525 (Trip Blank) 14694

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0018.RAW B22020962-033A ;0217VAR , $HC-8015-GRO-W,



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-033A ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0018.RAW
Date & Time Acquired: 2/17/2022 5:31:34 PM
Method File: G:\Org\VAR\Methods\211208G962-33DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

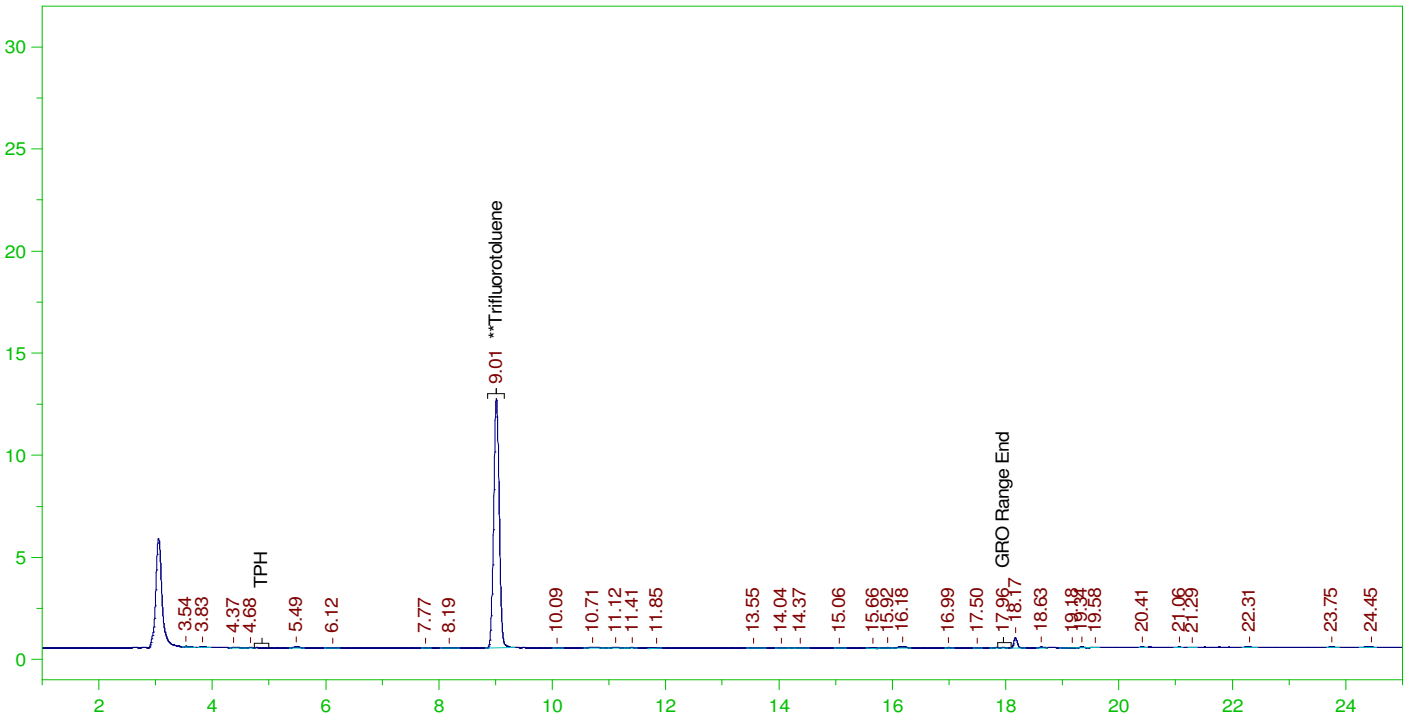
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	25.	18.548	74.19	-

C6 to C10 Area:8903.552 C6 to C10 Amount: 1.817091
TPH Area:14424.28 TPH Amount: 3.01866

ERH2524 (OWDFMW07A)

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0019.RAW B22020962-001G ;0217VAR , $HC-8015-GRO-W,



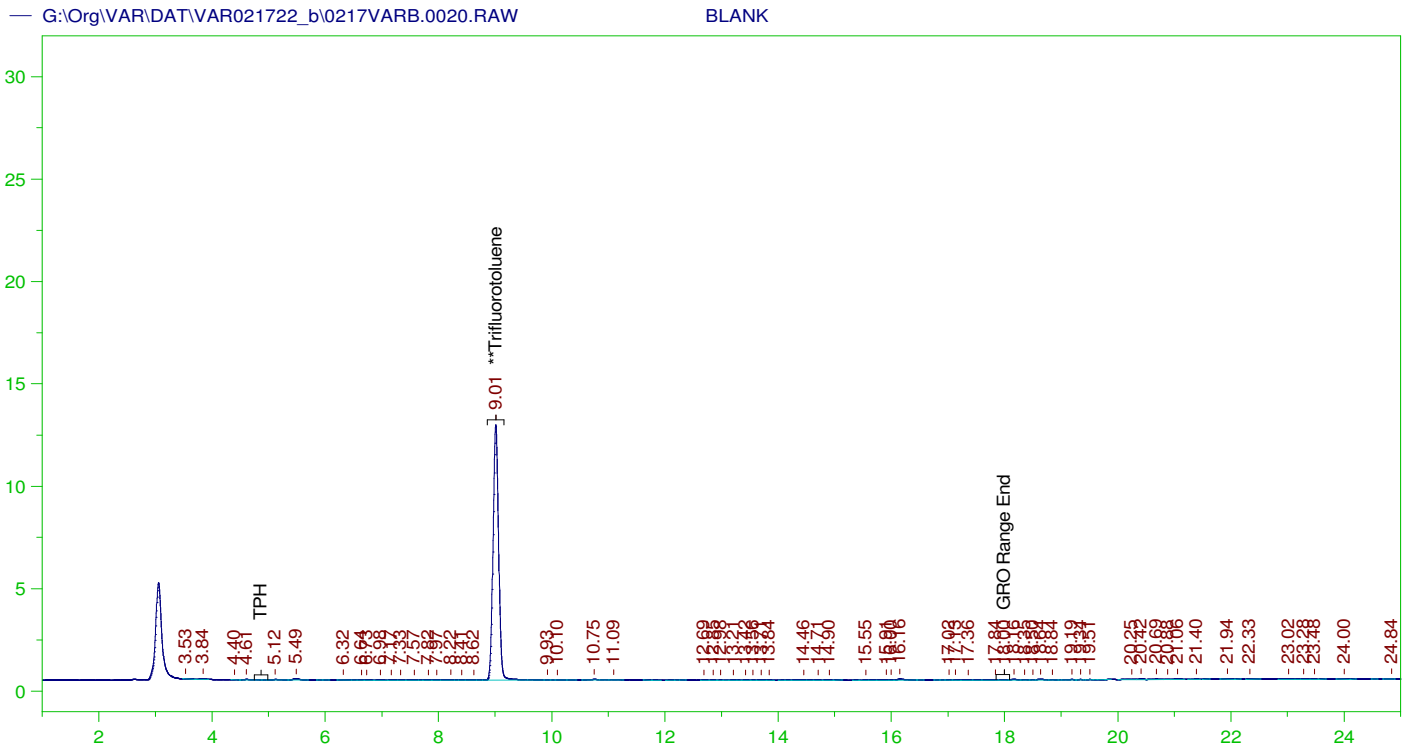
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-001G ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0019.RAW
Date & Time Acquired: 2/17/2022 6:05:37 PM
Method File: G:\Org\VAR\Methods\211208G962-1DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	25.	18.017	72.07	-

C6 to C10 Area:3698.134 C6 to C10 Amount: 0.7547376
TPH Area:7857.4 TPH Amount: 1.644367



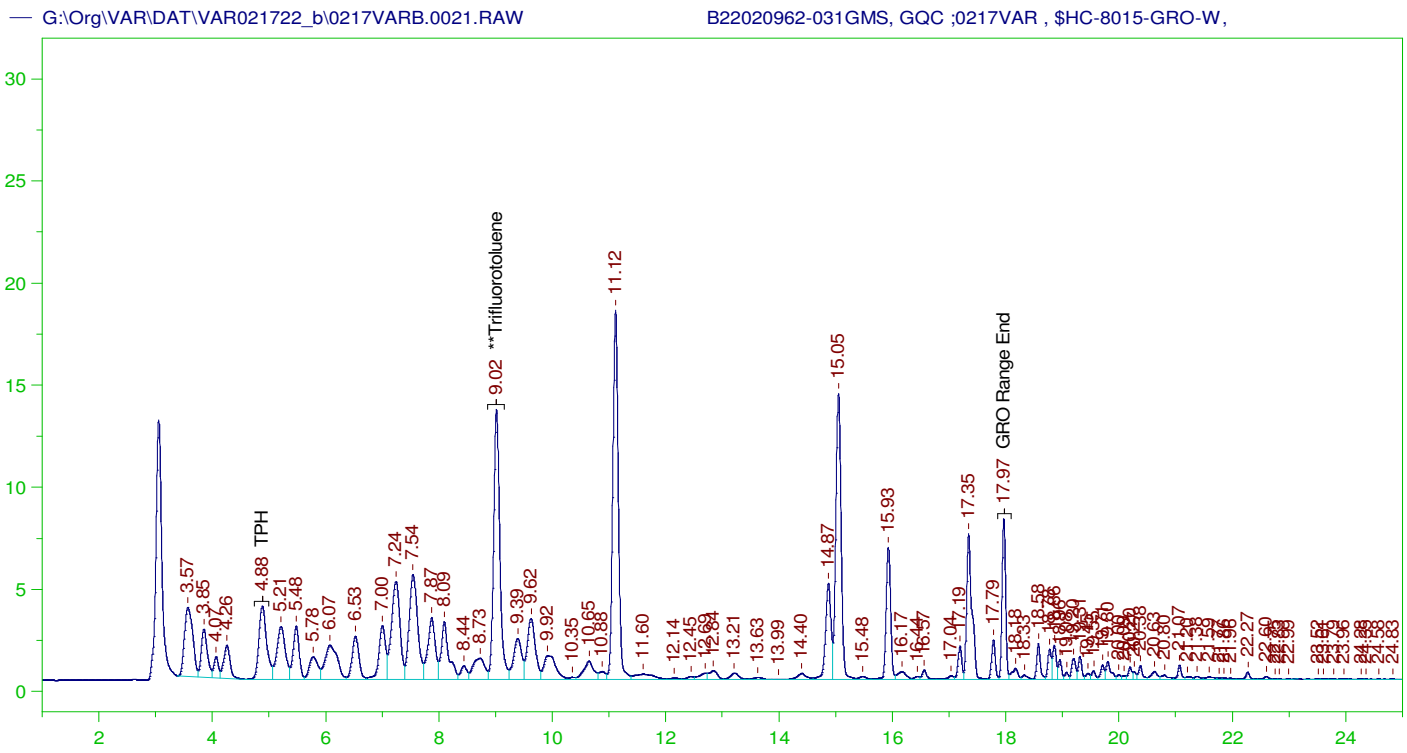
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0020.RAW
Date & Time Acquired: 2/17/2022 6:39:39 PM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	92.996	74.4	-

C6 to C10 Area:5580.654 C6 to C10 Amount: 5.694668
TPH Area:9530.059 TPH Amount: 9.972074



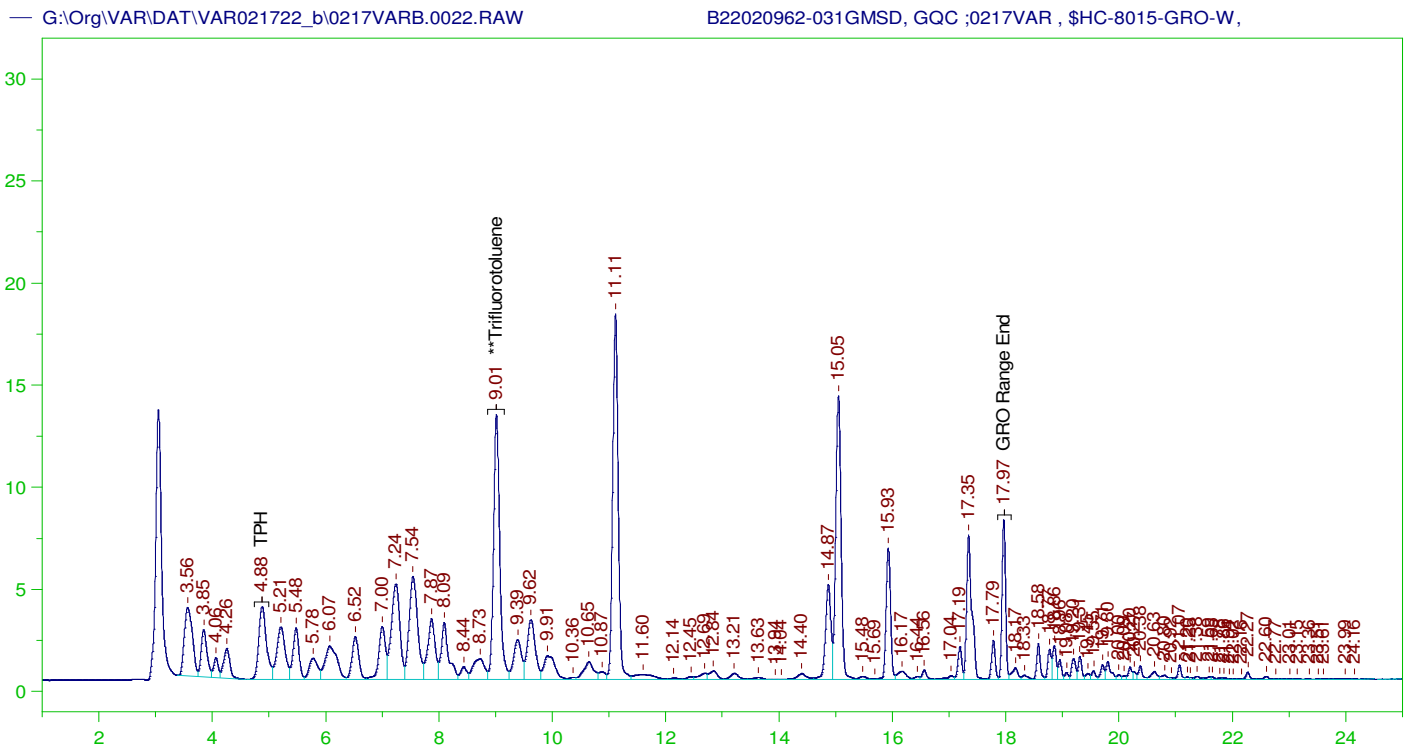
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-031GMS, GQC ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0021.RAW
Date & Time Acquired: 2/17/2022 7:13:39 PM
Method File: G:\Org\VAR\Methods\211208G962-31MSDoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.015	25.	21.724	86.9	-

C6 to C10 Area:837549.4 C6 to C10 Amount: 170.9322
TPH Area:989726.6 TPH Amount: 207.1263



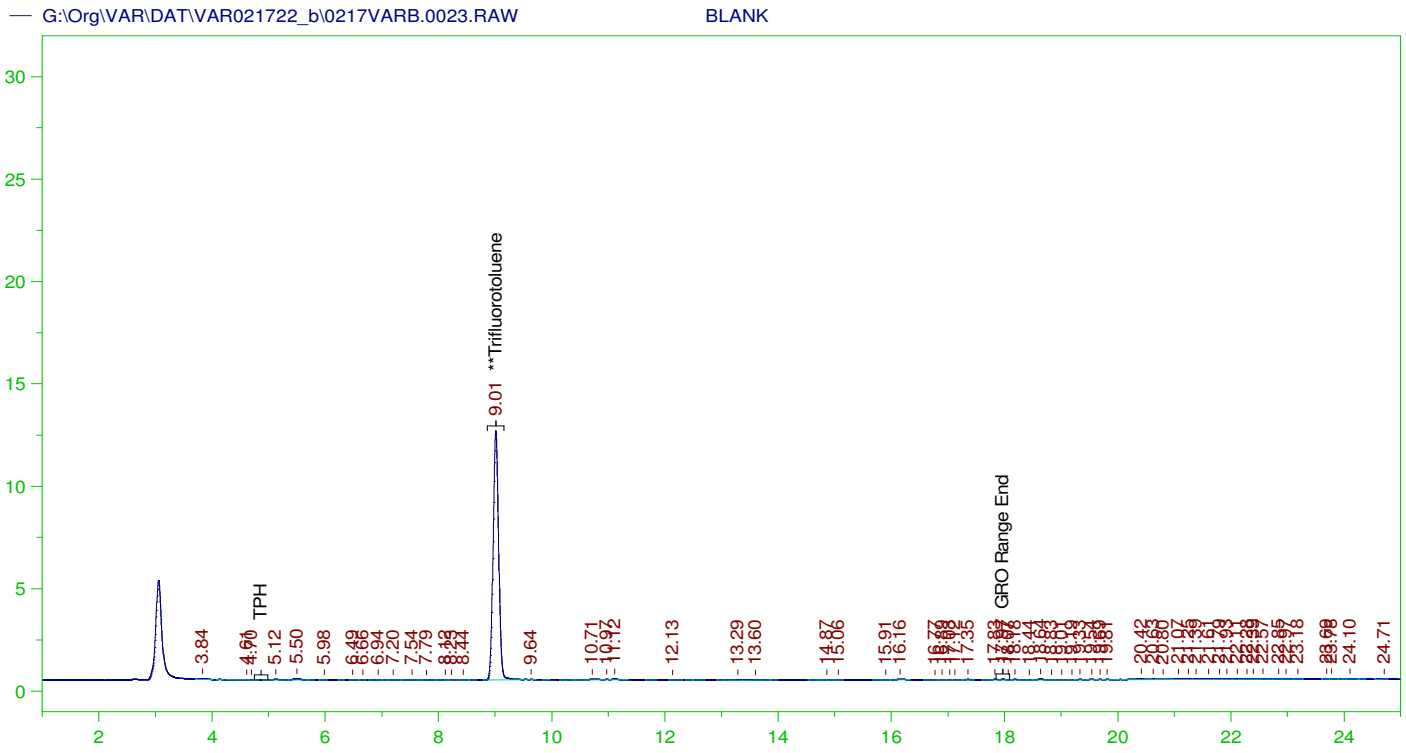
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-031GMSD, GQC ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0022.RAW
Date & Time Acquired: 2/17/2022 7:47:41 PM
Method File: G:\Org\VAR\Methods\211208G962-31MSDDoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	25.	21.266	85.06	-

C6 to C10 Area:822861 C6 to C10 Amount: 167.9344
TPH Area:971920.4 TPH Amount: 203.3998



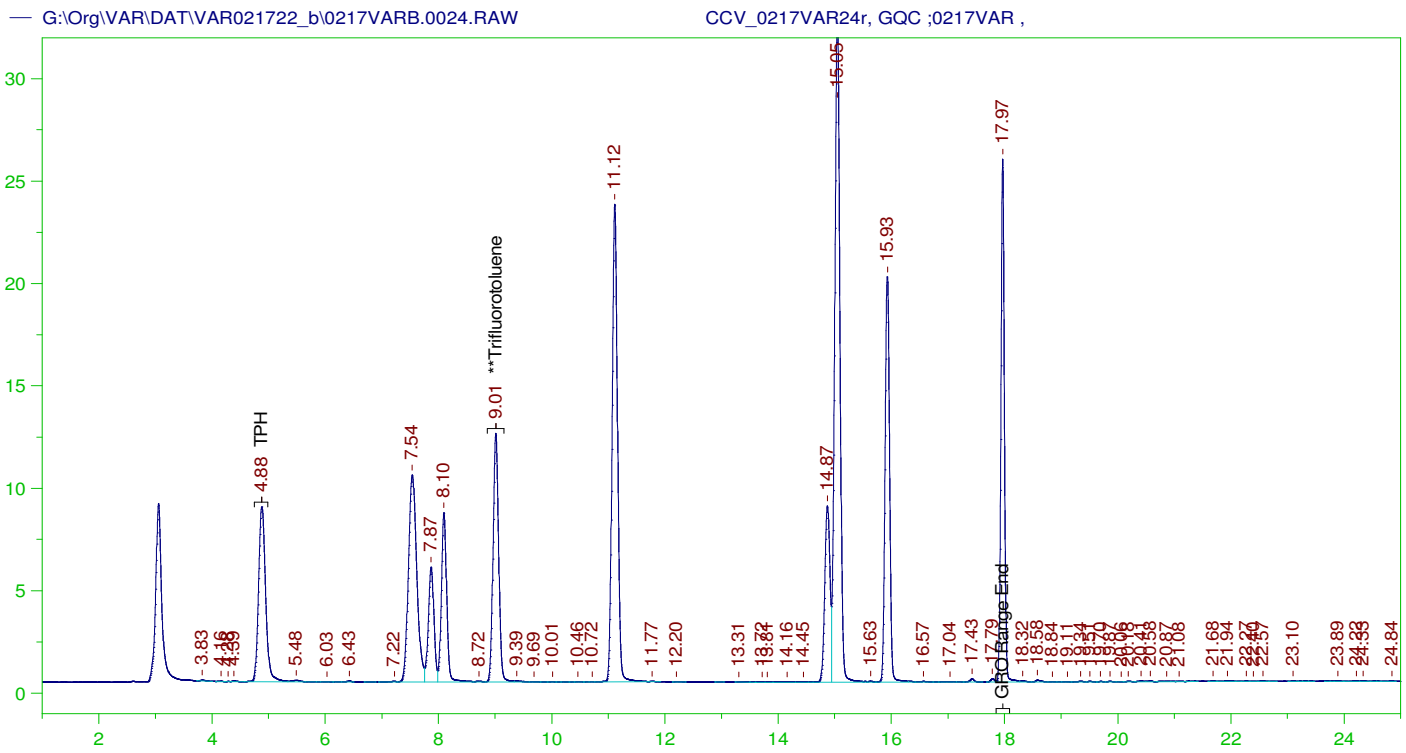
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0023.RAW
Date & Time Acquired: 2/17/2022 8:21:43 PM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	125.	90.451	72.36	-

C6 to C10 Area:4799.275 C6 to C10 Amount: 4.897325
TPH Area:9322.436 TPH Amount: 9.754821



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0217VAR24r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0024.RAW
Date & Time Acquired: 2/17/2022 8:55:44 PM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

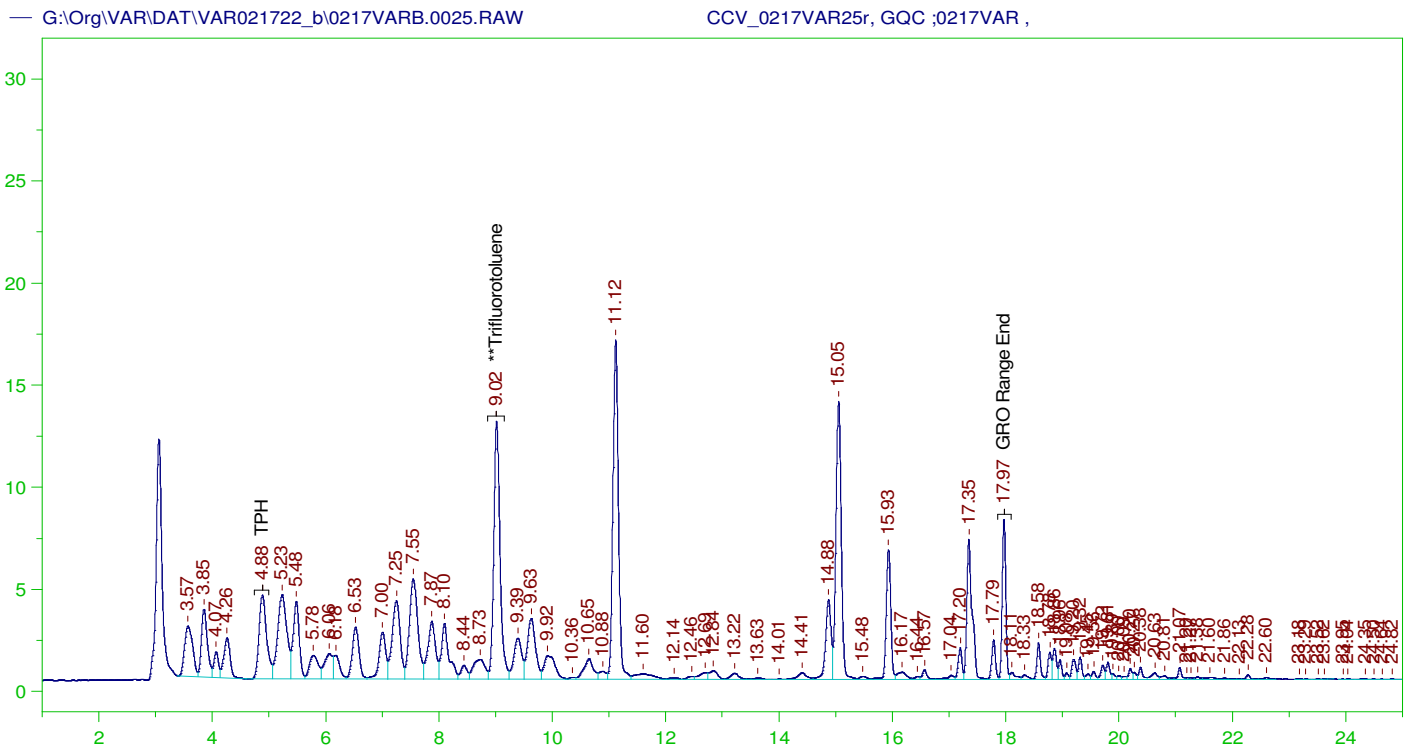
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.014	125.	90.303	72.24	-

C6 to C10 Area:920153.8 C6 to C10 Amount: 938.9528
TPH Area:925340 TPH Amount: 968.2584

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0024.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	938.95	111.78	85-115
TPH	1000.	968.26	96.83	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.014	125.	90.303	72.24	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0217VAR25r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0025.RAW
Date & Time Acquired: 2/17/2022 9:29:44 PM
Method File: G:\Org\VAR\Methods\211208GCCV0217_25DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

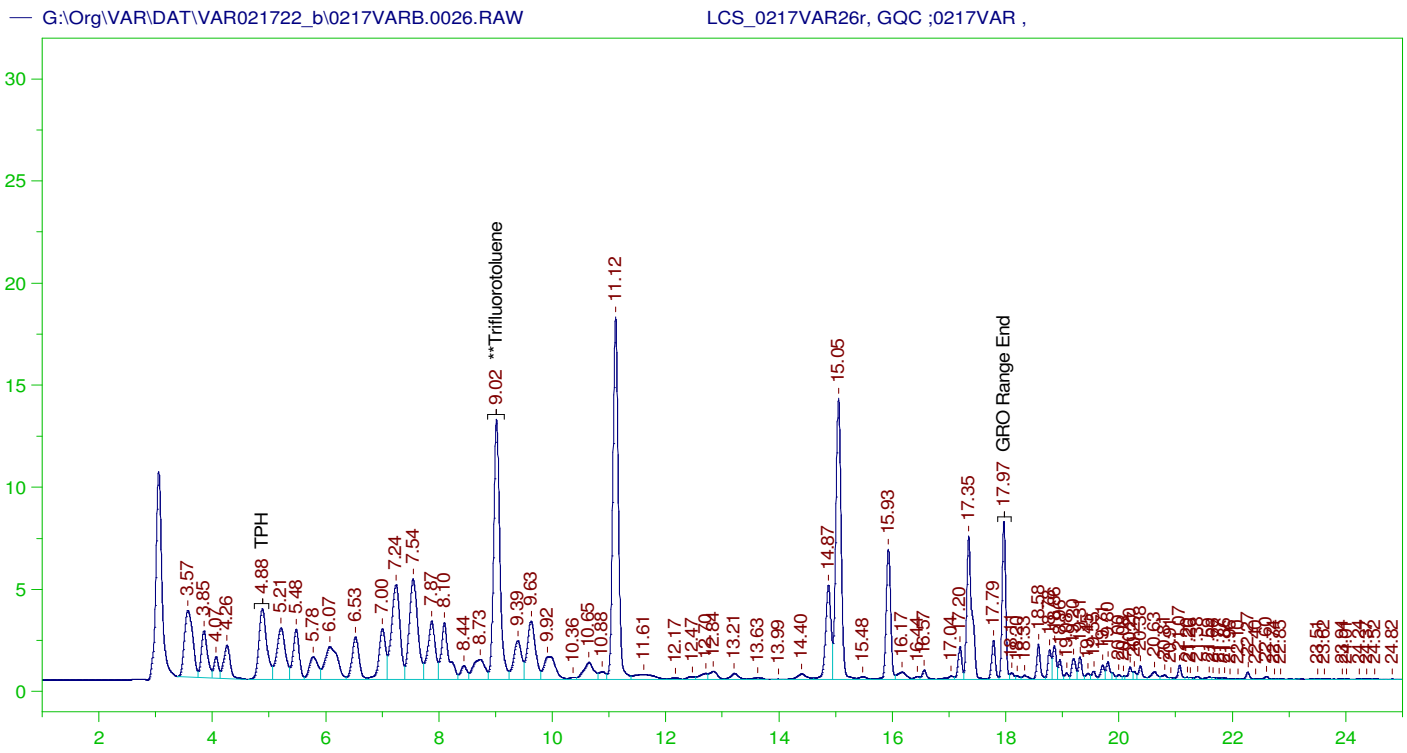
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.018	125.	105.192	84.15	-

C6 to C10 Area:832446.6 C6 to C10 Amount: 849.4537
TPH Area:975289.3 TPH Amount: 1020.524

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0025.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	849.45	101.13	85-115
TPH	1000.	1020.52	102.05	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.018	125.	105.192	84.15	85-115



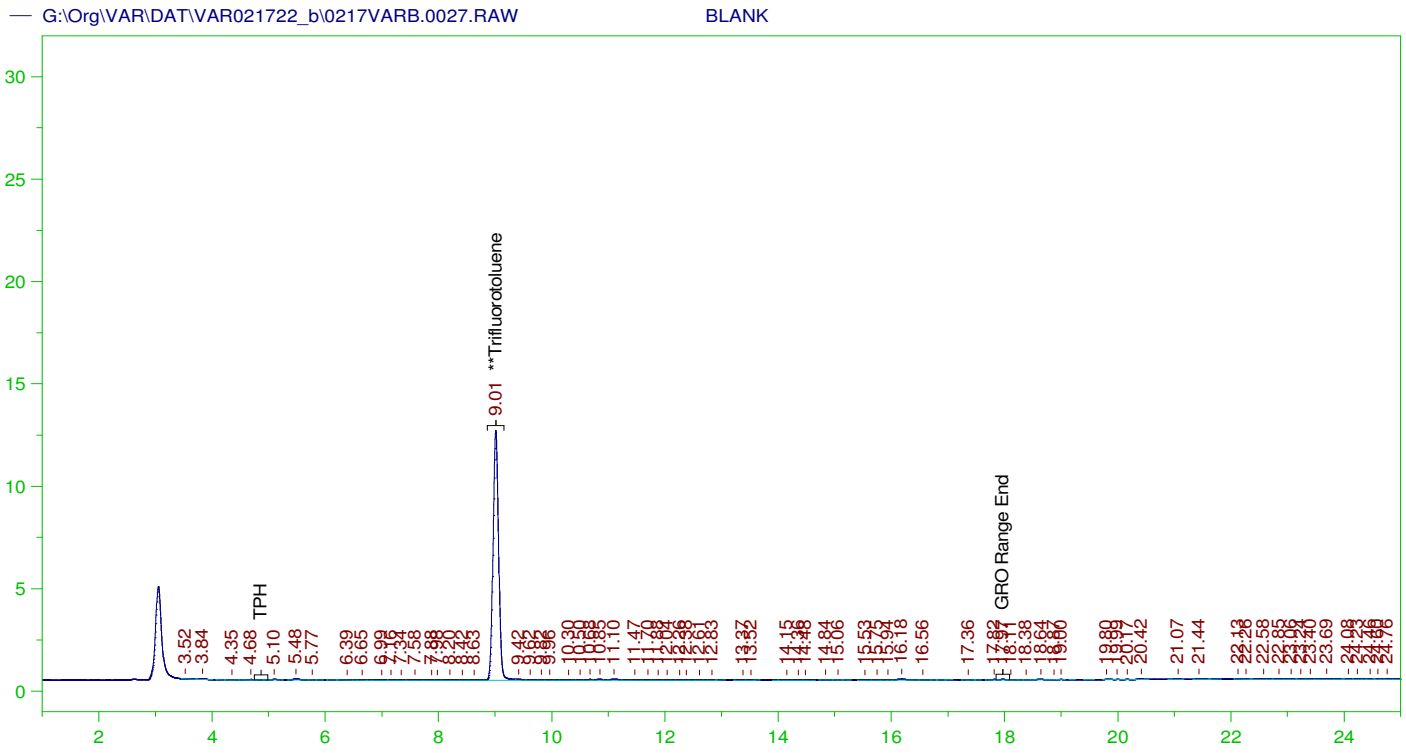
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS_0217VAR26r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0026.RAW
Date & Time Acquired: 2/17/2022 10:03:46 PM
Method File: G:\Org\VAR\Methods\211208GLCS0217_26DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.016	25.	20.895	83.58	-

C6 to C10 Area:812047.3 C6 to C10 Amount: 165.7275
TPH Area:959572.6 TPH Amount: 200.8158



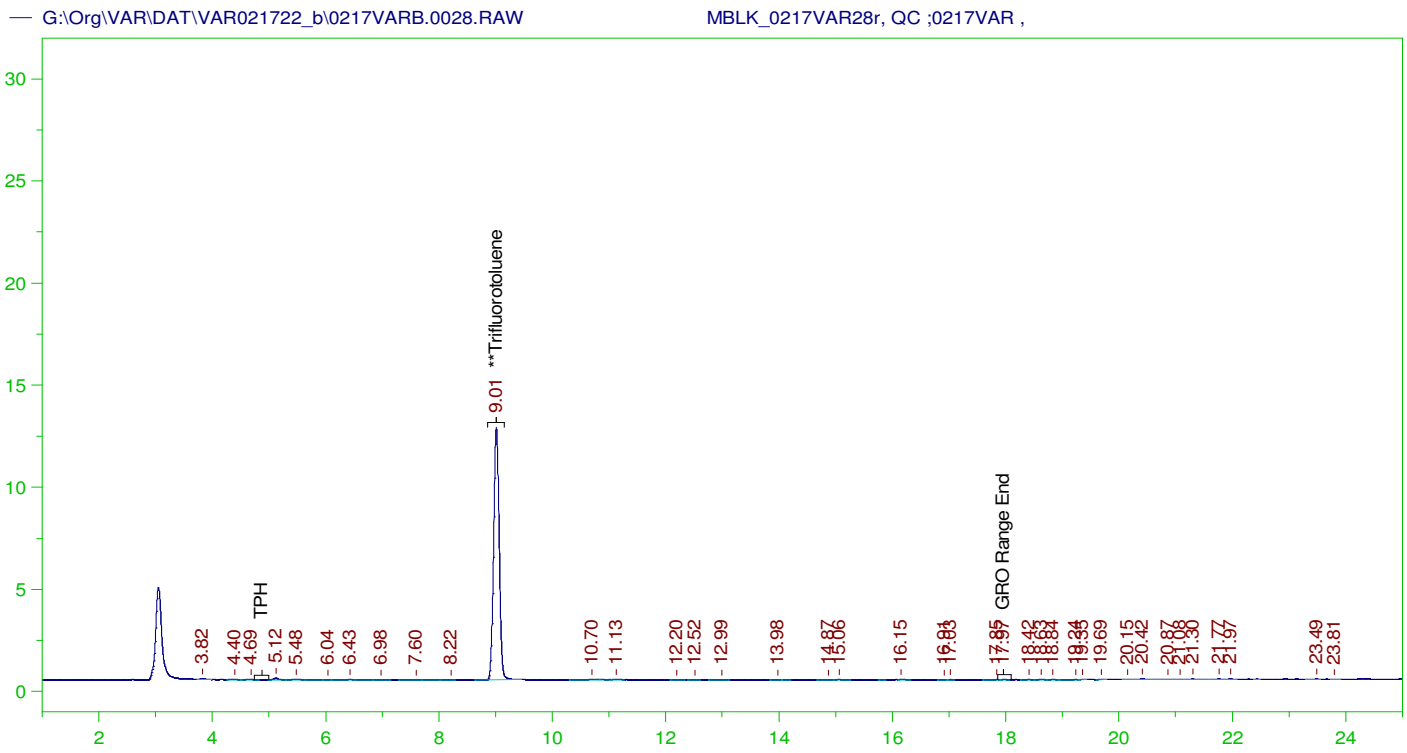
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0027.RAW
Date & Time Acquired: 2/17/2022 10:37:49 PM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	90.597	72.48	-

C6 to C10 Area:8403.917 C6 to C10 Amount: 8.575611
TPH Area:12532.18 TPH Amount: 13.11343



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MBLK_0217VAR28r, QC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0028.RAW
Date & Time Acquired: 2/17/2022 11:11:48 PM
Method File: G:\Org\VAR\Methods\211208GMB0217_28DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

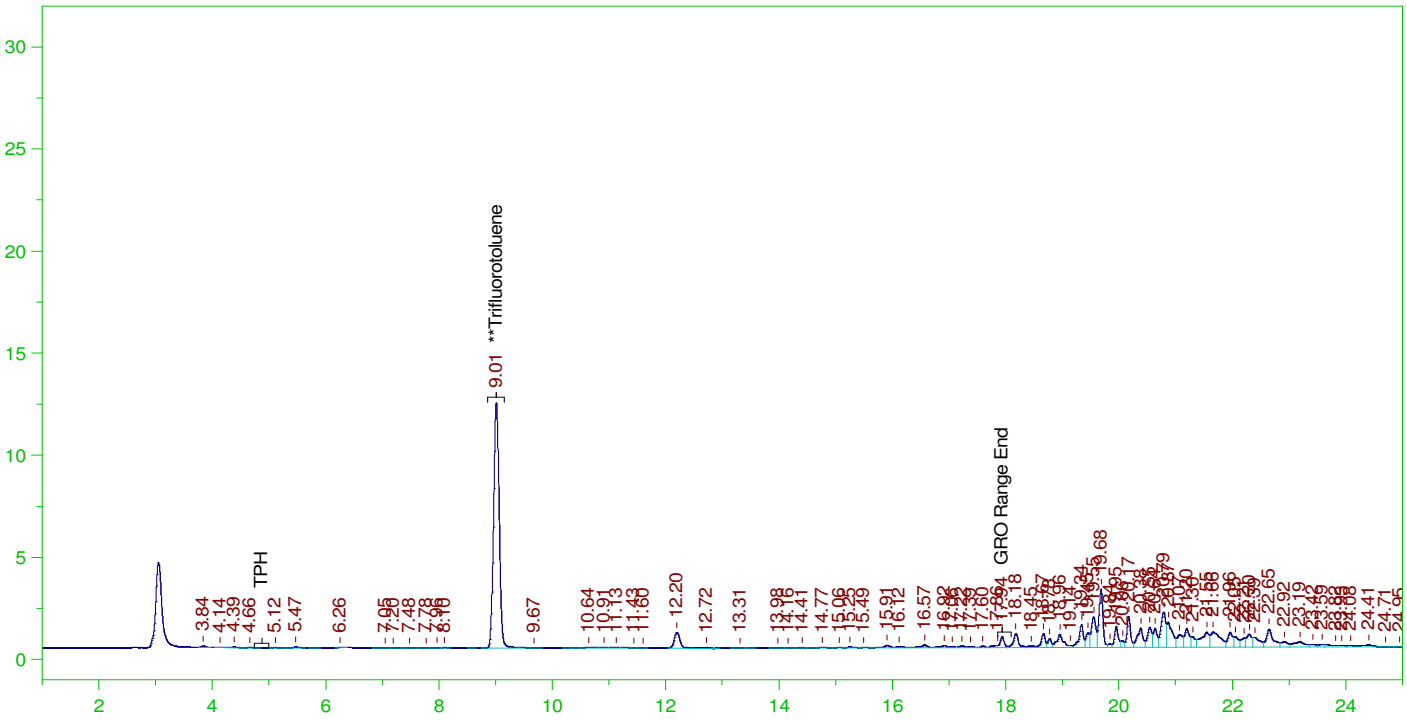
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	25.	18.317	73.27	-

C6 to C10 Area:4059.192 C6 to C10 Amount: 0.8284245
TPH Area:7266.765 TPH Amount: 1.520761

ERH2531 (RHMW01R)

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0029.RAW B22020962-006G ;0217VAR , $HC-8015-GRO-W,



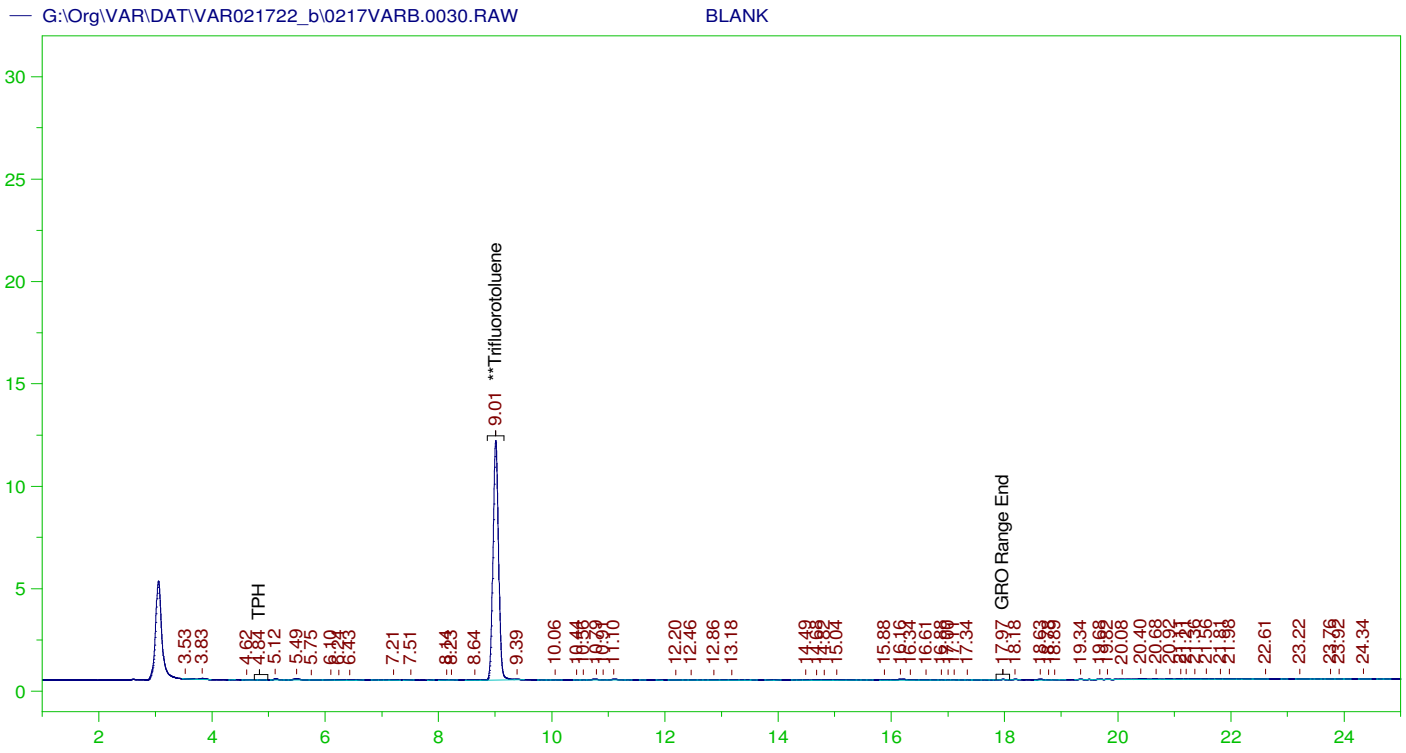
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-006G ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0029.RAW
Date & Time Acquired: 2/17/2022 11:45:49 PM
Method File: G:\Org\VAR\Methods\211208G962-6DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	25.	17.965	71.86	-

C6 to C10 Area:21082.36 C6 to C10 Amount: 4.302615
TPH Area:188611.3 TPH Amount: 39.47186



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0030.RAW
Date & Time Acquired: 2/18/2022 12:19:50 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

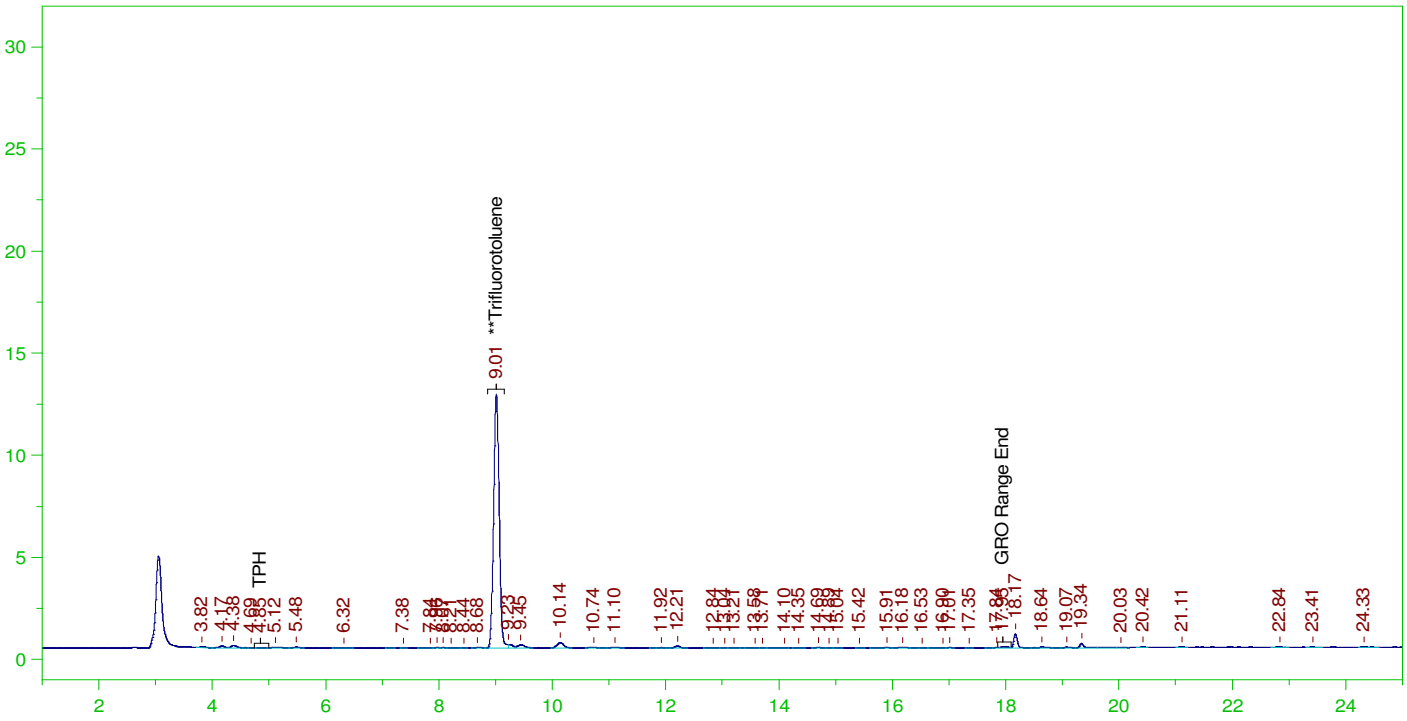
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	125.	86.51	69.21	-

C6 to C10 Area:5643.193 C6 to C10 Amount: 5.758485
TPH Area:9613.015 TPH Amount: 10.05888

ERH2529 (RHMW19)

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0031.RAW B22020962-011G ;0217VAR , $HC-8015-GRO-W,



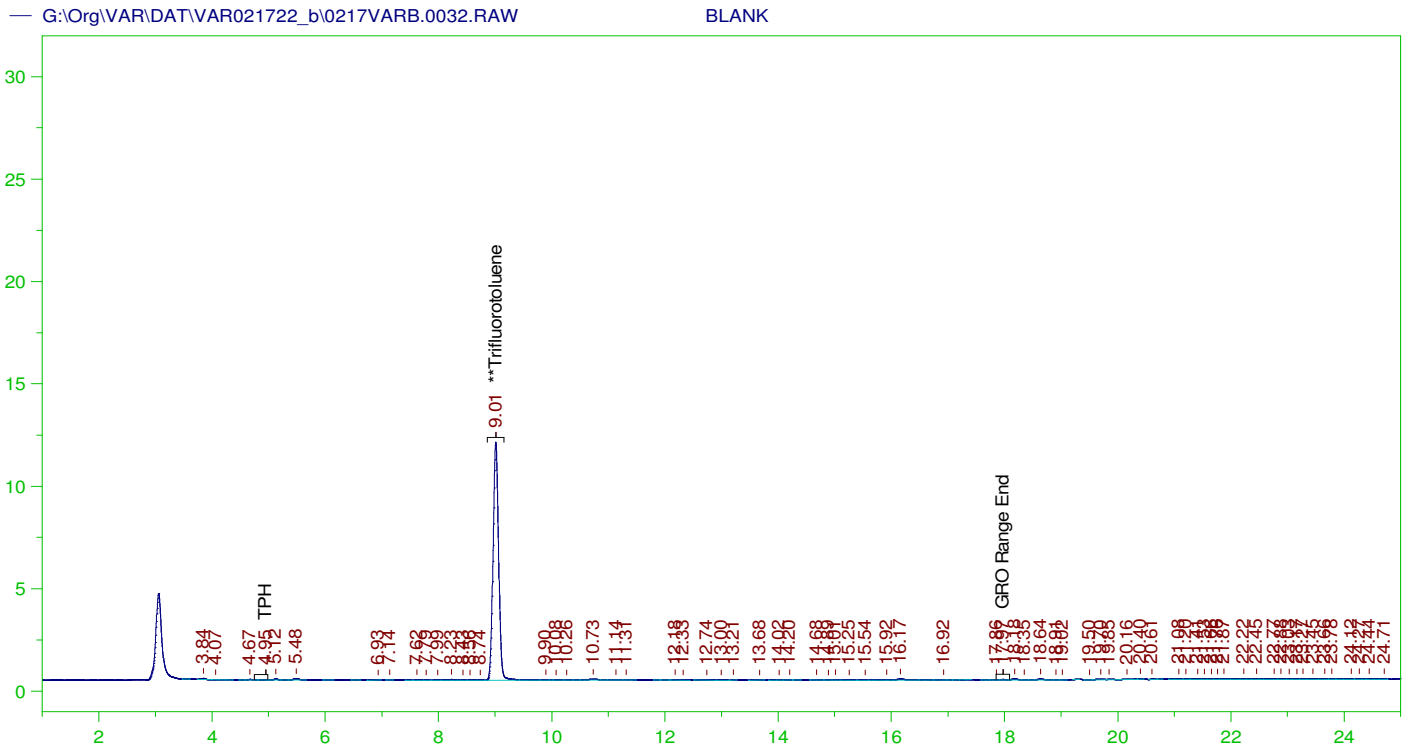
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-011G ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0031.RAW
Date & Time Acquired: 2/18/2022 12:53:53 AM
Method File: G:\Org\VAR\Methods\211208G962-11DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	25.	18.457	73.83	-

C6 to C10 Area:11273.12 C6 to C10 Amount: 2.300686
TPH Area:19119.35 TPH Amount: 4.001225



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0032.RAW
Date & Time Acquired: 2/18/2022 1:27:56 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

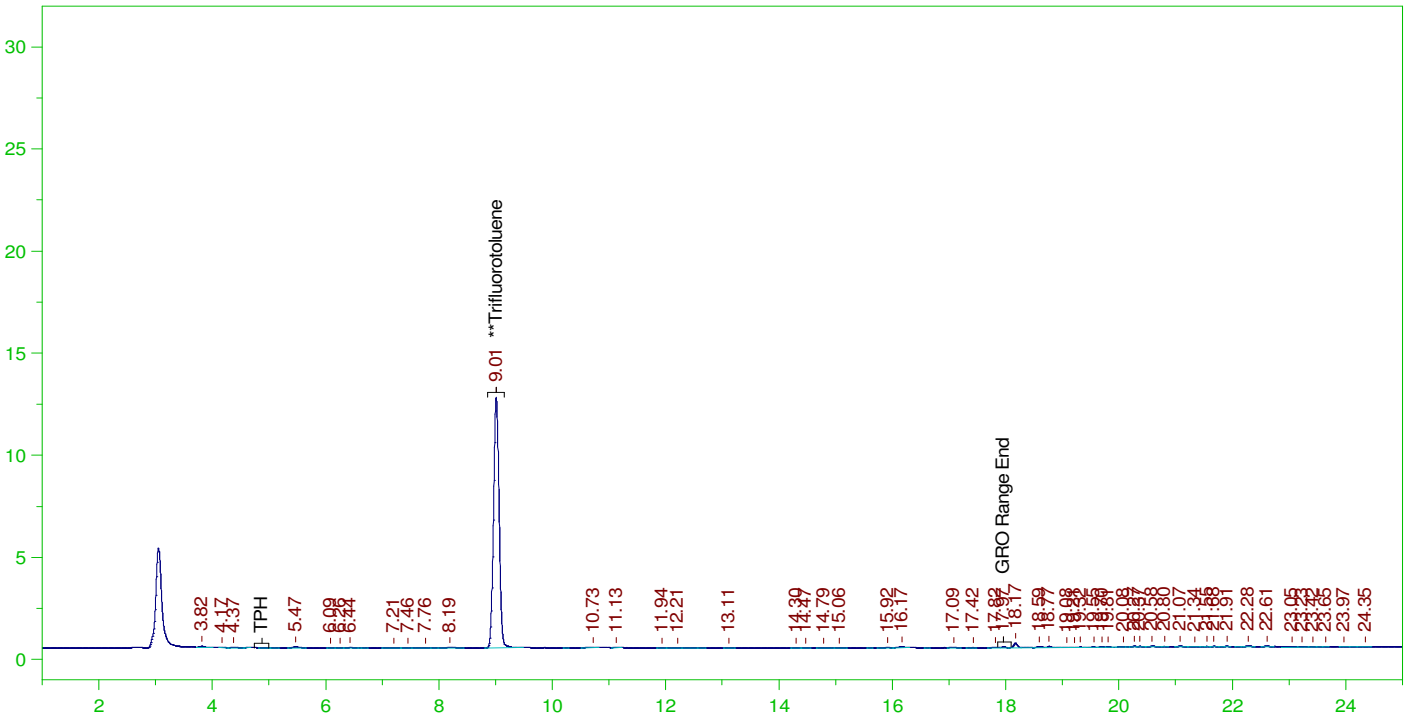
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	86.305	69.04	-

C6 to C10 Area:5919.178 C6 to C10 Amount: 6.040108
TPH Area:12106.52 TPH Amount: 12.66804

ERH2535 (RHMW2254-01) Low Flow

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0033.RAW B22020962-016G ;0217VAR , $HC-8015-GRO-W,



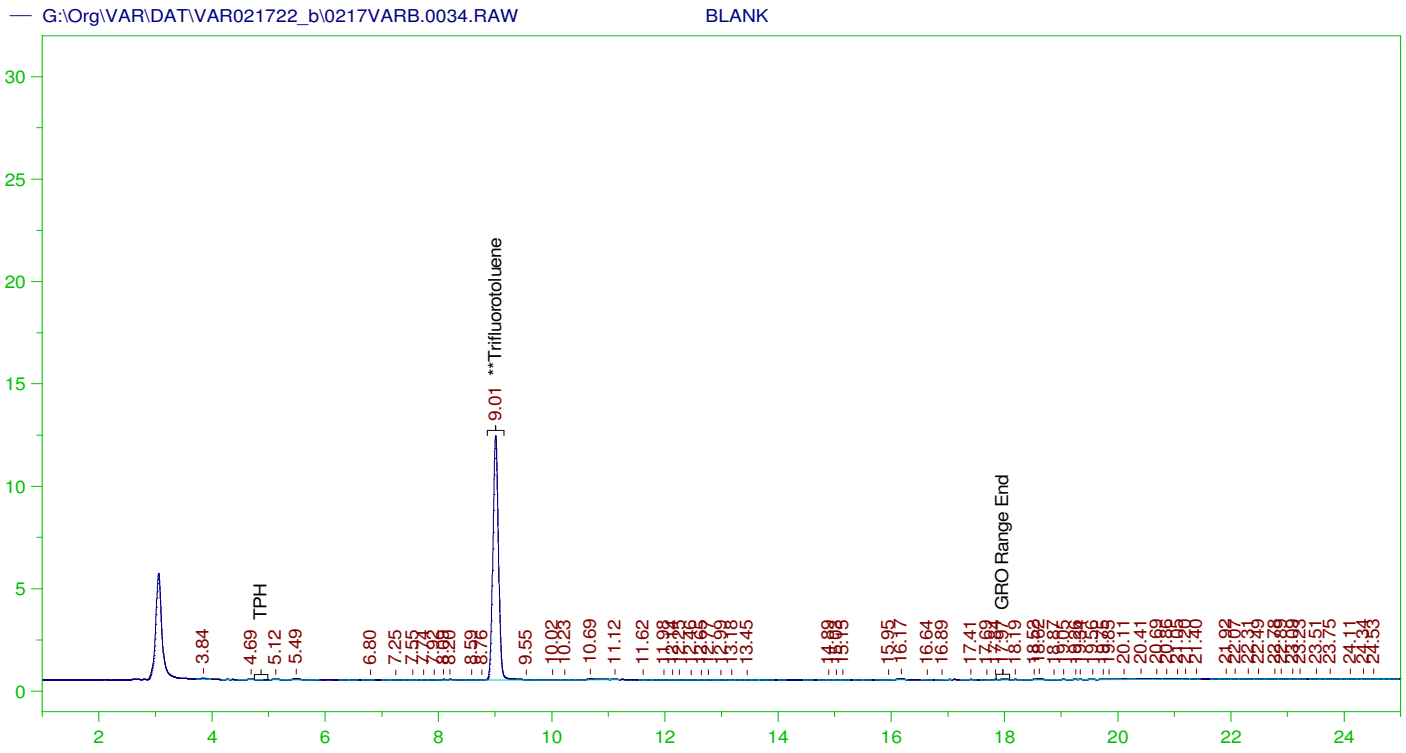
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-016G ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0033.RAW
Date & Time Acquired: 2/18/2022 2:01:59 AM
Method File: G:\Org\VAR\Methods\211208G962-16DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	25.	18.184	72.74	-

C6 to C10 Area:3739.933 C6 to C10 Amount: 0.7632681
TPH Area:9520.548 TPH Amount: 1.992424



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0034.RAW
Date & Time Acquired: 2/18/2022 2:36:03 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

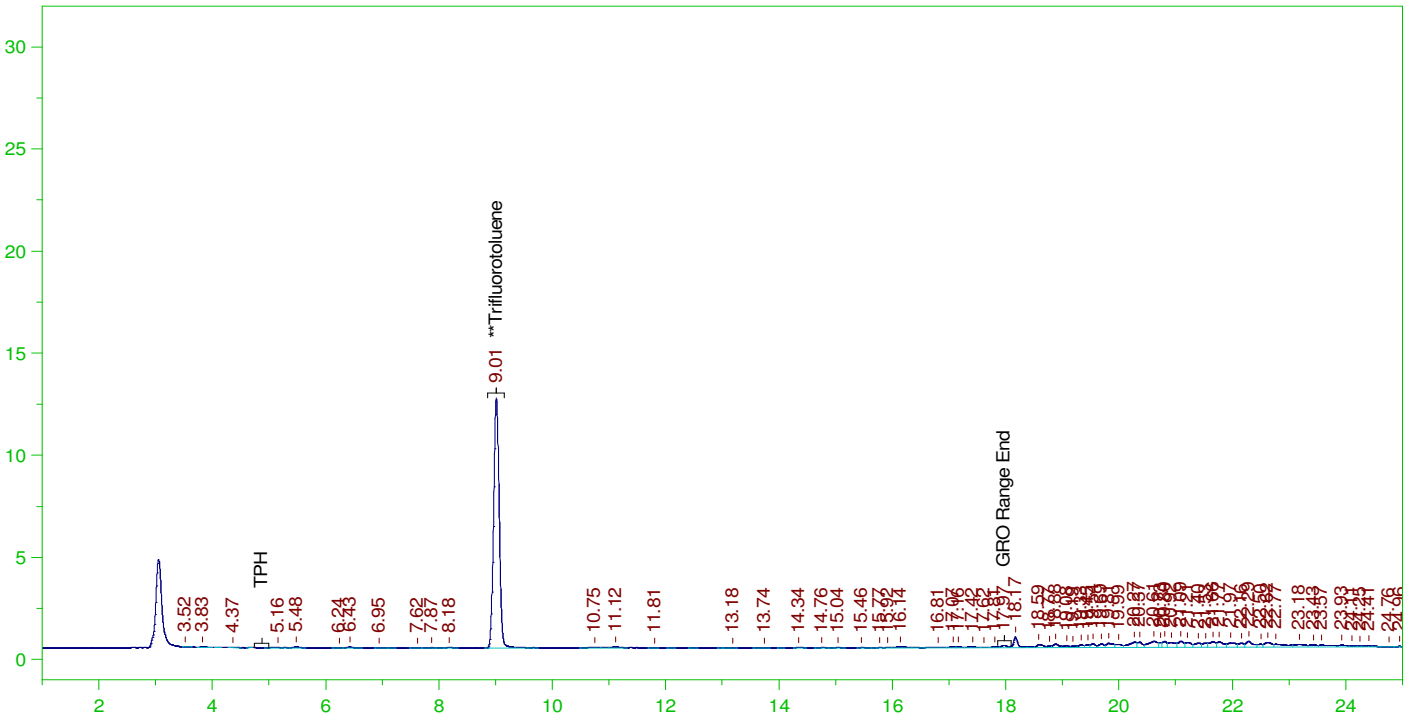
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	125.	88.703	70.96	-

C6 to C10 Area:5216.561 C6 to C10 Amount: 5.323136
TPH Area:9812.182 TPH Amount: 10.26728

ERH2533 (RHMW2254-01-Bailer)

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0035.RAW B22020962-021G ;0217VAR , $HC-8015-GRO-W,



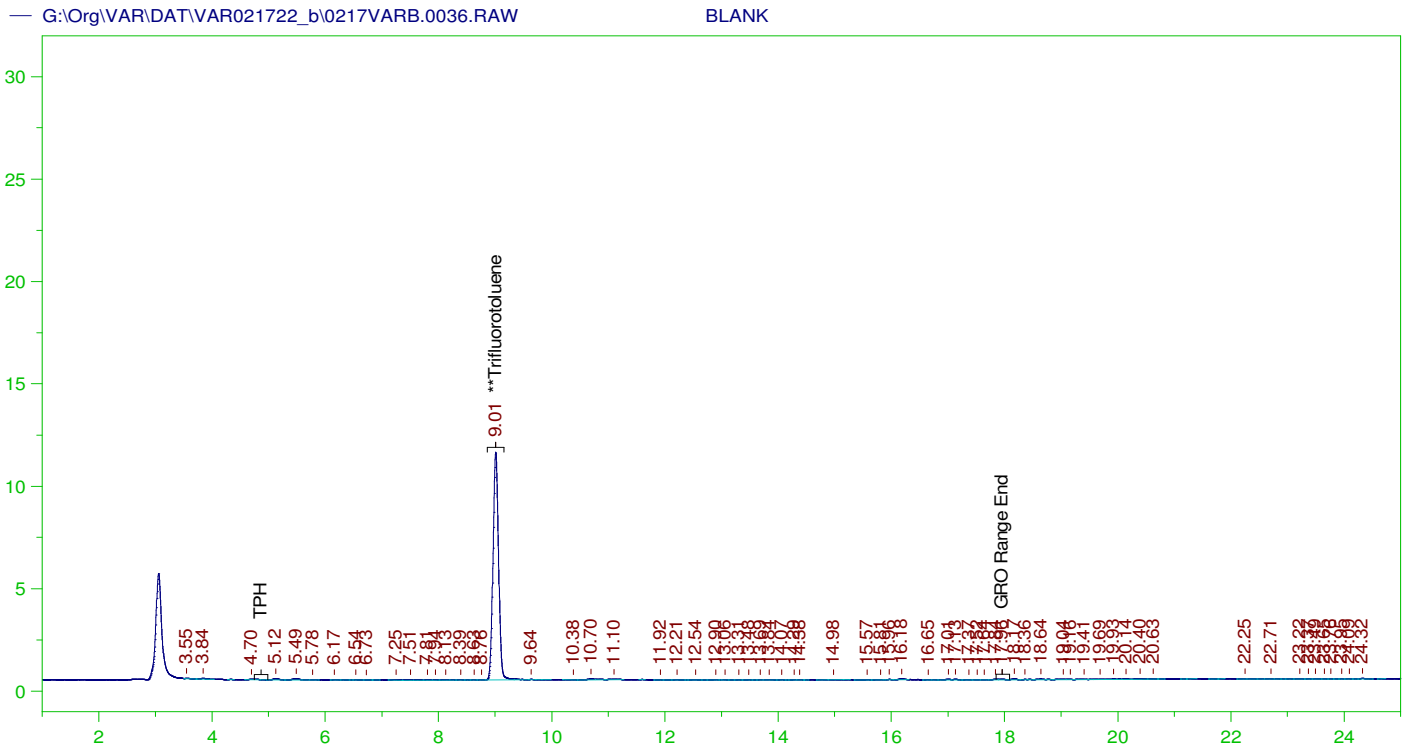
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-021G ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0035.RAW
Date & Time Acquired: 2/18/2022 3:10:08 AM
Method File: G:\Org\VAR\Methods\211208G962-21DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	25.	18.175	72.7	-

C6 to C10 Area:7122.173 C6 to C10 Amount: 1.453536
TPH Area:63222.18 TPH Amount: 13.2309



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0036.RAW
Date & Time Acquired: 2/18/2022 3:44:14 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

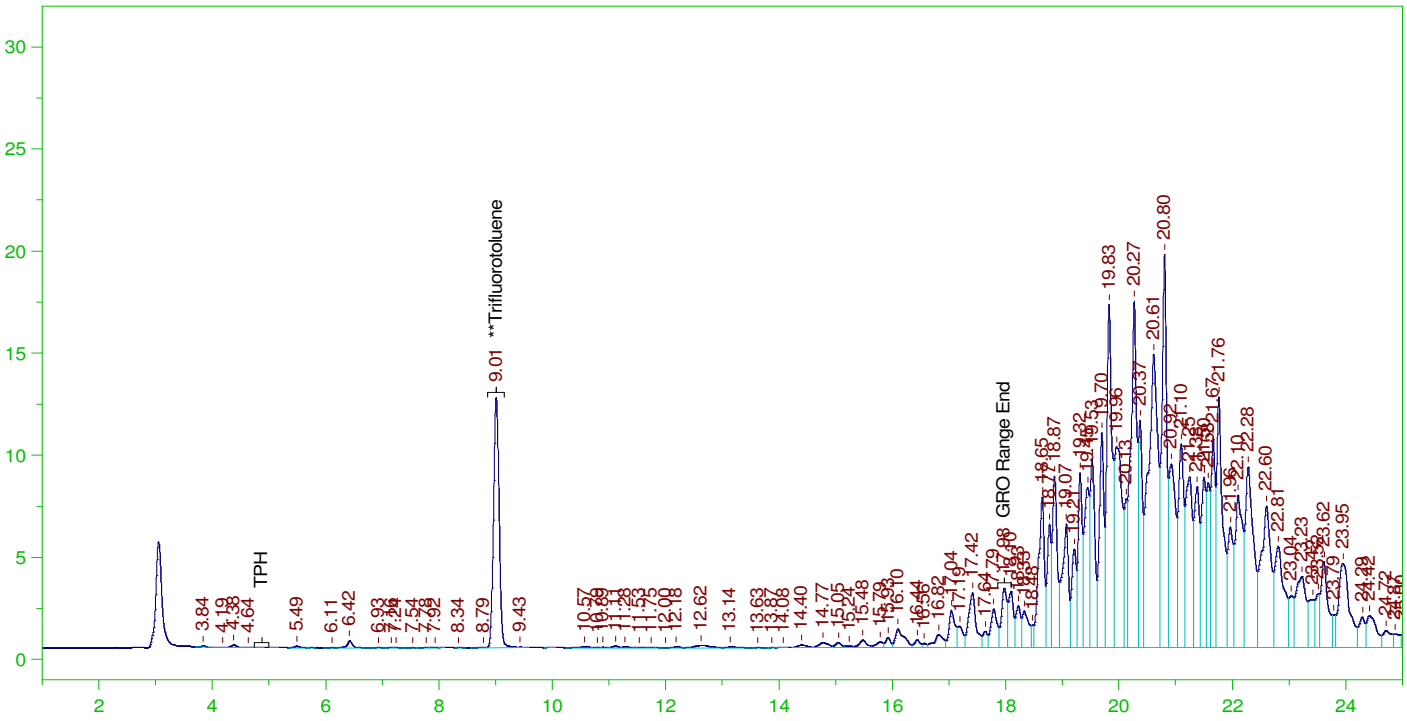
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.012	125.	82.474	65.98	-

C6 to C10 Area:6588.11 C6 to C10 Amount: 6.722706
TPH Area:10348.97 TPH Amount: 10.82897

ERH2537 (Sump Adit 3)

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0037.RAW B22020962-026G ;0217VAR , $HC-8015-GRO-W,



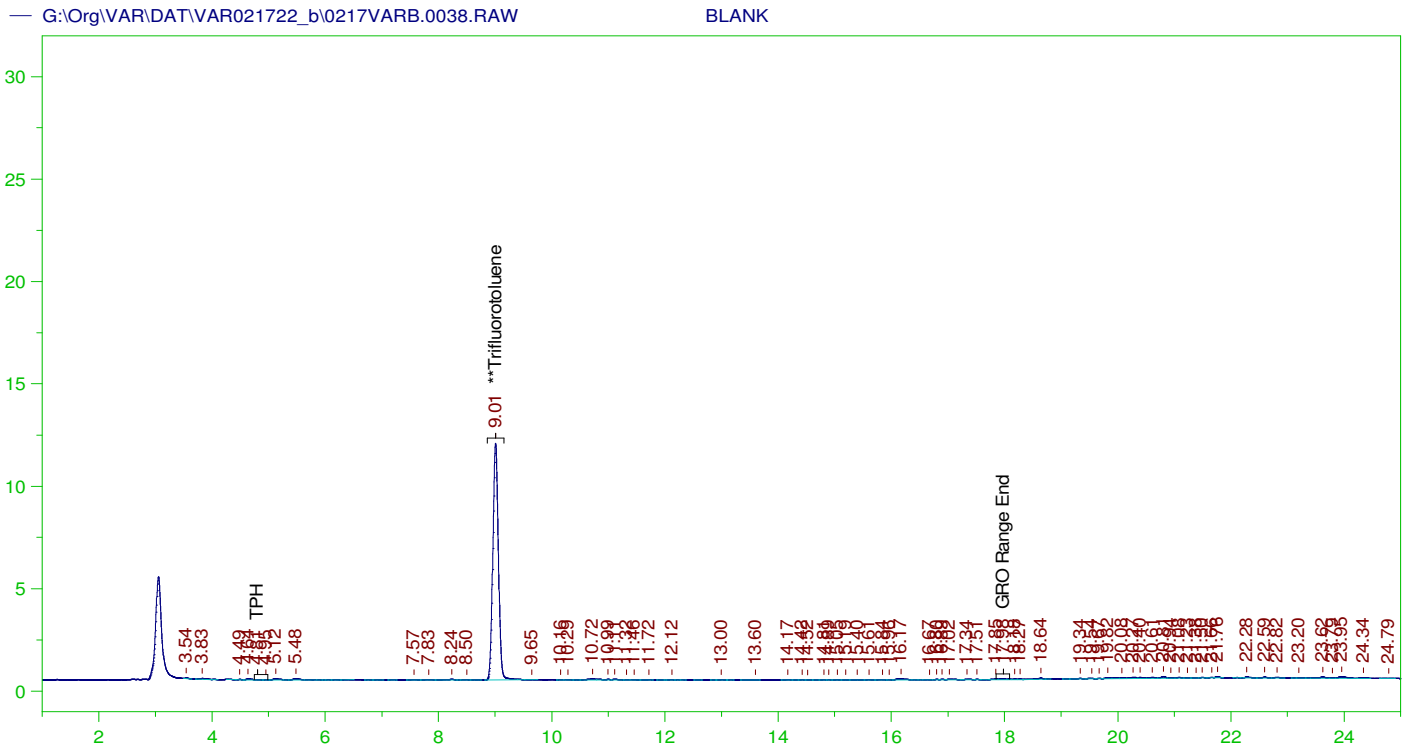
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-026G ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0037.RAW
Date & Time Acquired: 2/18/2022 4:18:21 AM
Method File: G:\Org\VAR\Methods\211208G962-26DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.011	25.	18.272	73.09	-

C6 to C10 Area:133994.3 C6 to C10 Amount: 27.34637
TPH Area:2366562 TPH Amount: 495.2651



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0038.RAW
Date & Time Acquired: 2/18/2022 4:52:25 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

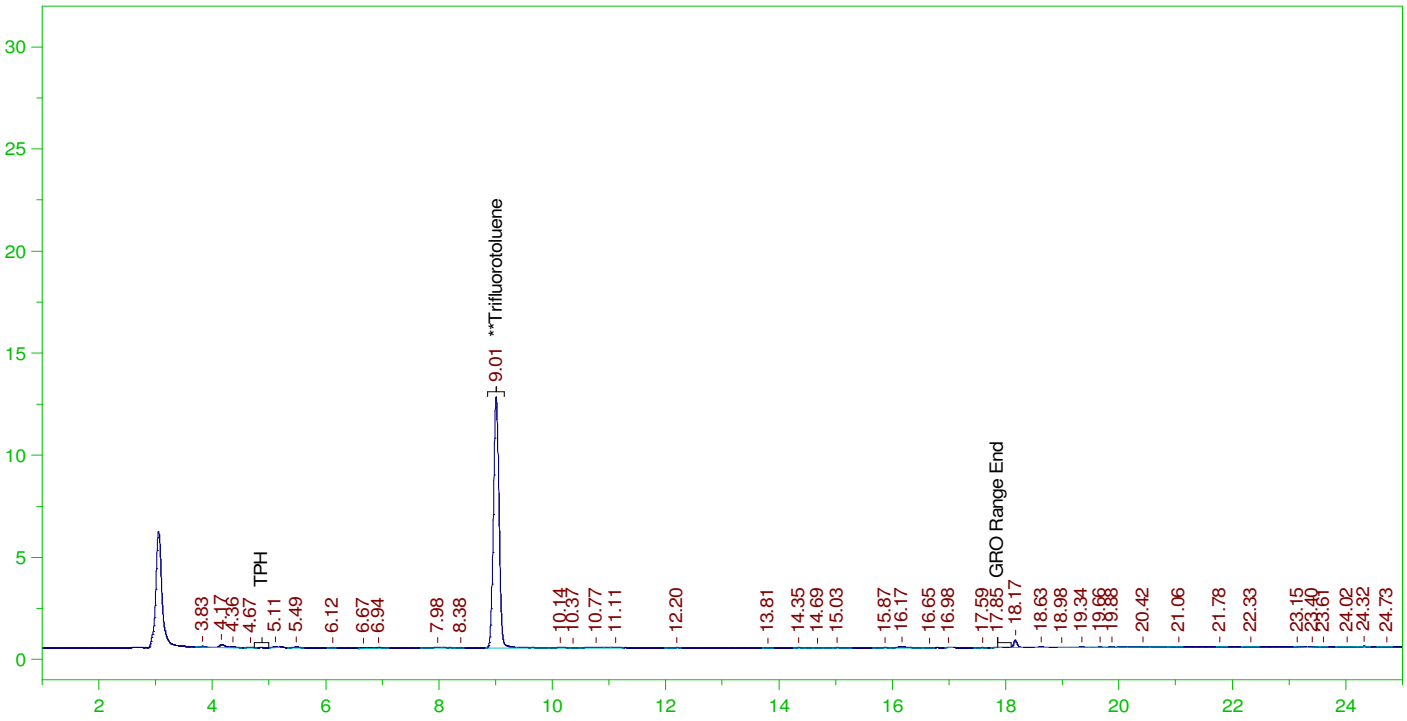
Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.009	125.	85.901	68.72	-

C6 to C10 Area:6953.759 C6 to C10 Amount: 7.095826
TPH Area:14721.28 TPH Amount: 15.40407

ERH2527 (OWDFMW08A-FD)

G:\Org\VAR\DAT\VAR021722_b\0217VARB.0039.RAW B22020962-032D ;0217VAR , $HC-8015-GRO-W,



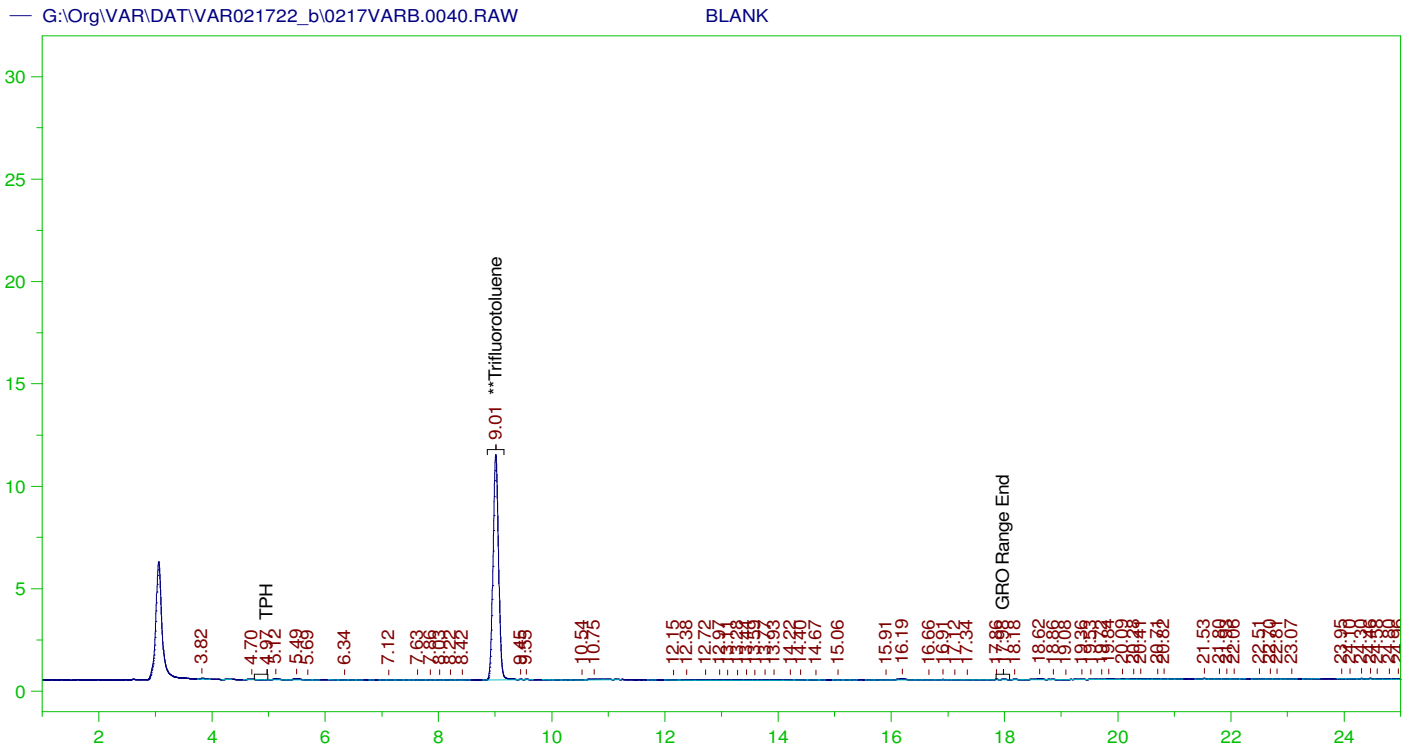
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22020962-032D ;0217VAR , $HC-8015-GRO-W,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0039.RAW
Date & Time Acquired: 2/18/2022 5:26:30 AM
Method File: G:\Org\VAR\Methods\211208G962-32DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 5 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.009	25.	18.336	73.34	-

C6 to C10 Area:4573.7 C6 to C10 Amount: 0.9334283
TPH Area:10842.65 TPH Amount: 2.269109



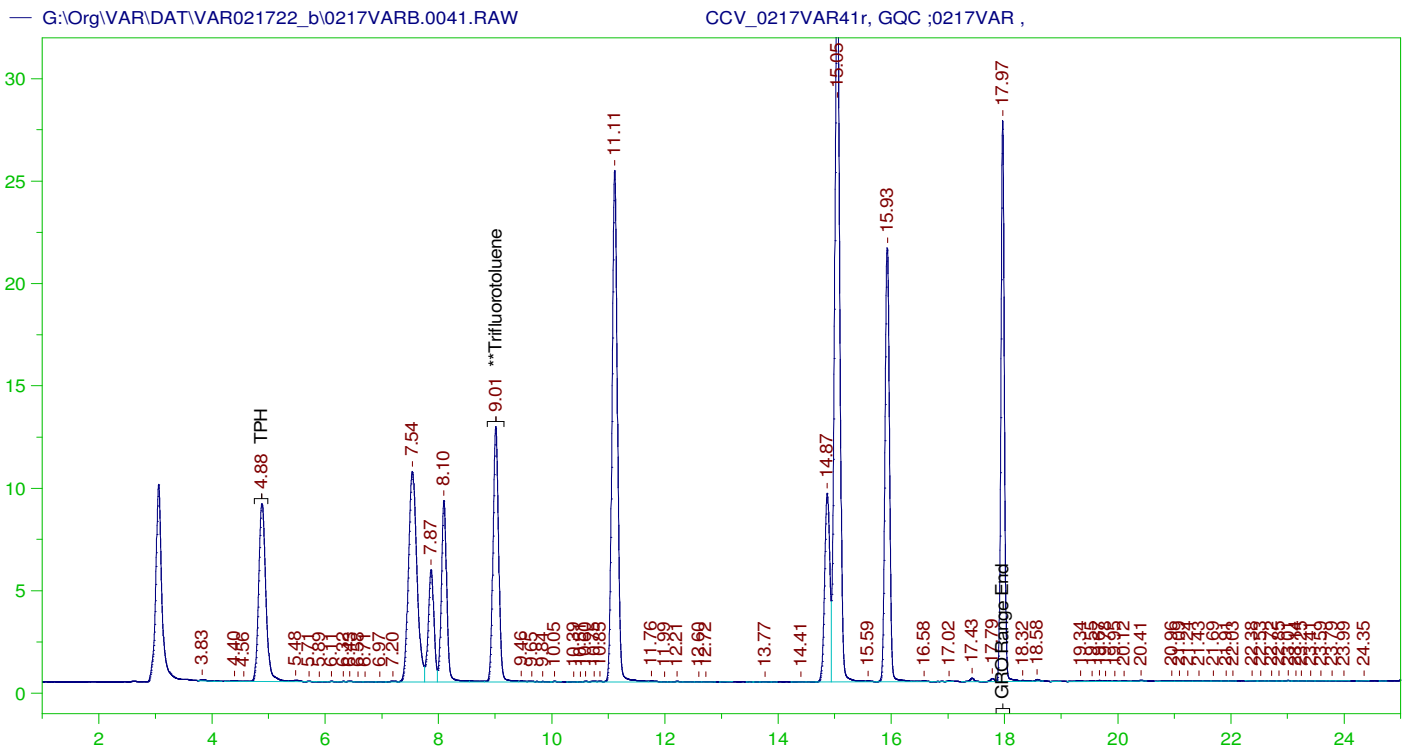
GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0040.RAW
Date & Time Acquired: 2/18/2022 6:00:34 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	81.522	65.22	-

C6 to C10 Area:5737.979 C6 to C10 Amount: 5.855207
TPH Area:10421.77 TPH Amount: 10.90514



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0217VAR41r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0041.RAW
Date & Time Acquired: 2/18/2022 6:34:39 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

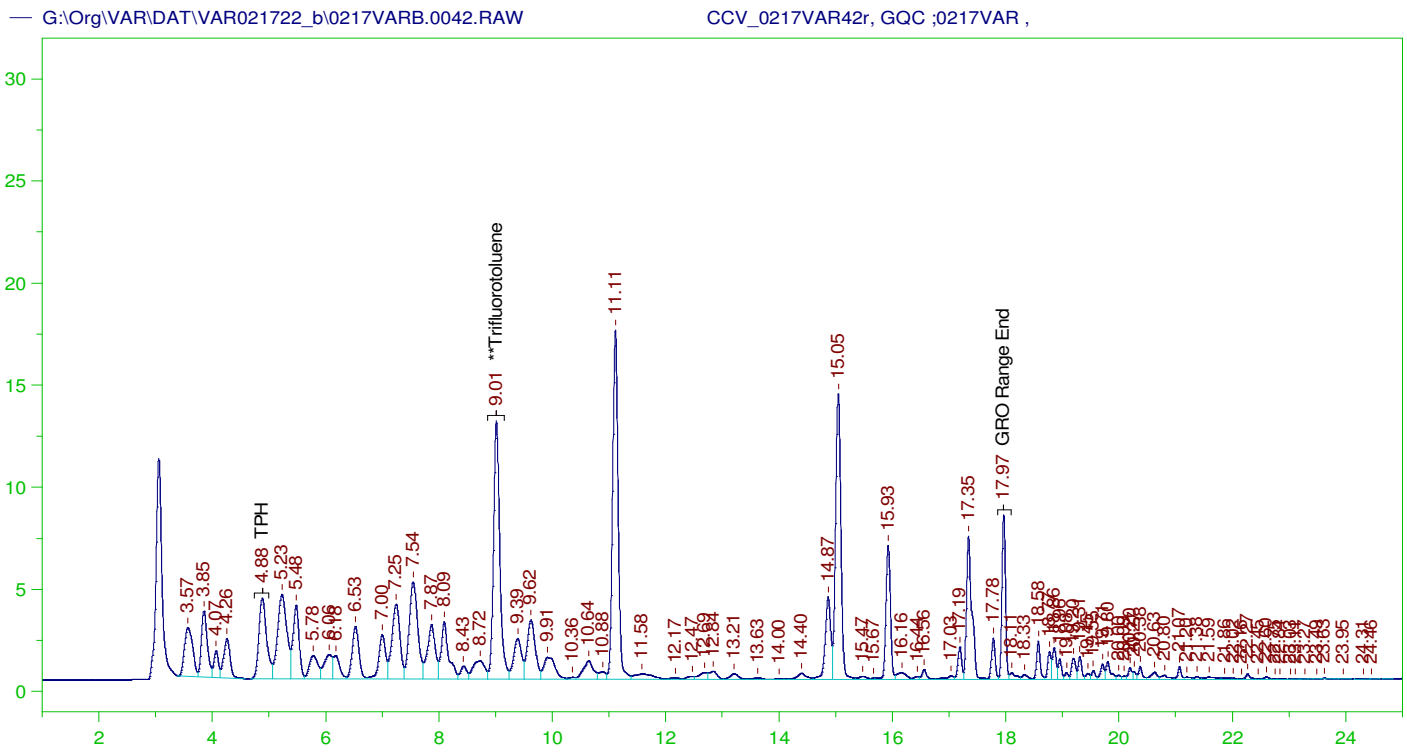
SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	93.122	74.5	-

C6 to C10 Area:975050.8 C6 to C10 Amount: 994.9713
TPH Area:980087.1 TPH Amount: 1025.545

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0041.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	994.97	118.45	85-115
TPH	1000.	1025.55	102.55	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.013	125.	93.122	74.5	85-115



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0217VAR42r, GQC ;0217VAR ,
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0042.RAW
Date & Time Acquired: 2/18/2022 7:08:46 AM
Method File: G:\Org\VAR\Methods\211208GCCV0217_42DoDB%.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.013	125.	105.821	84.66	-

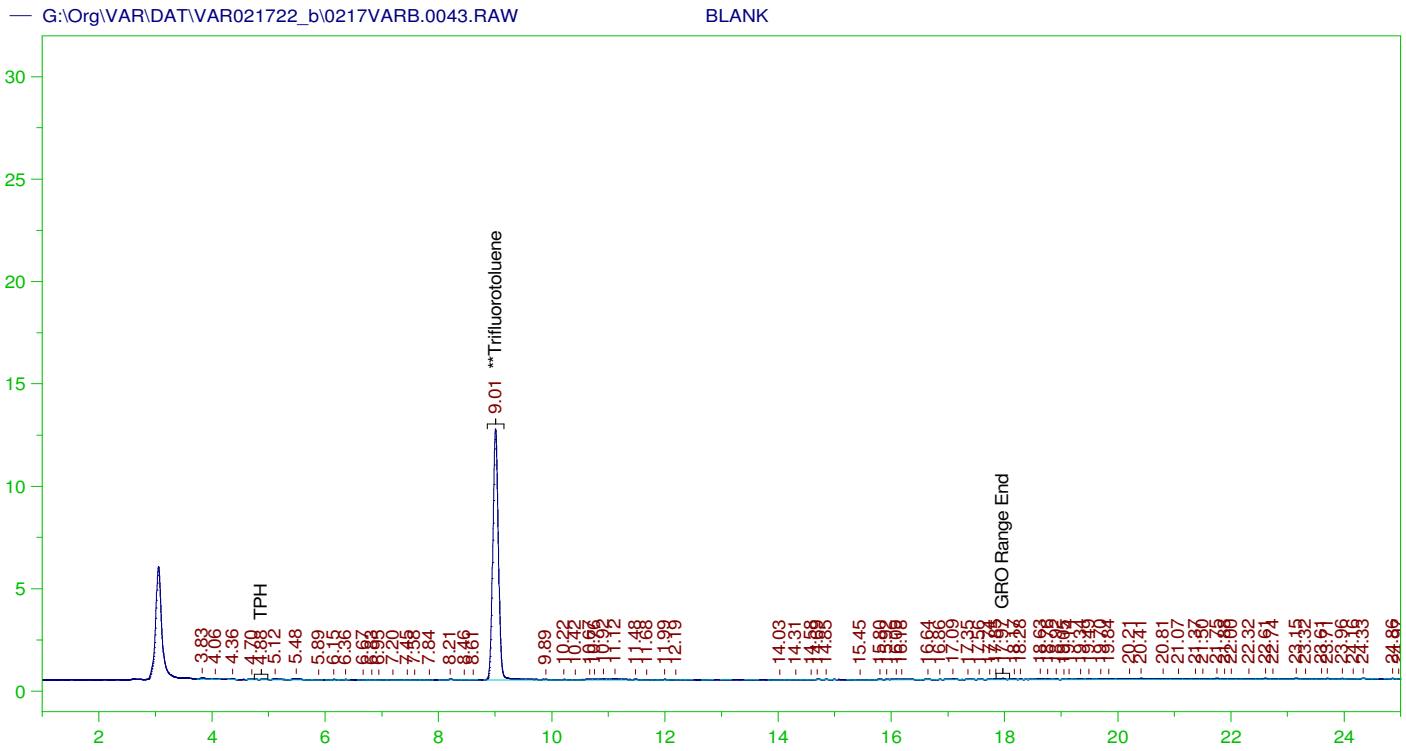
C6 to C10 Area:832815.8 C6 to C10 Amount: 849.8304
TPH Area:981907.1 TPH Amount: 1027.449

CONTINUING CALIBRATION REPORT: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0042.RAW

COMPOUND	ACTUAL(NG)	MEASURED(NG)	%RECOVERY	LIMITS
C6 to C10	840.	849.83	101.17	85-115
TPH	1000.	1027.45	102.74	85-115

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	LIMITS
**Trifluorotoluene	9.013	125.	105.821	84.66	85-115

G:\org\VAR\dat\VAR021722_b\Review\042_CCV_0217VAR42r_211208GCCV0217_42DoDB%.xls



GASOLINE RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: BLANK
Raw File: G:\Org\VAR\DAT\VAR021722_b\0217VARB.0043.RAW
Date & Time Acquired: 2/18/2022 7:42:51 AM
Method File: G:\Org\VAR\Methods\211208GRO_DoDB.MET
Calibration File: G:\Org\VAR\Cals\211208GRO8015CB.CAL
Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for C6 to C10: 979.9788
Mean RF for TPH: 955.6747
Rt range for Gasoline Range Organics: 4.75 to 18.09

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
**Trifluorotoluene	9.009	125.	91.745	73.4	-

C6 to C10 Area:7861.504 C6 to C10 Amount: 8.022117
TPH Area:15116.39 TPH Amount: 15.8175

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\VAR\DAT\VAR021722_b\0217VAR.01r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.02r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.03r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.04r	CCV_0217VAR04r, GQC ;0217VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.05r	CCV_0217VAR05r, GQC ;0217VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.06r	LCS_0217VAR06r, GQC ;0217VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.07r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.08r	MBLK_0217VAR08r, QC ;0217VAR ,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.09r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.10r	B22020962-031G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.11r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.12r	B22020962-028A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.13r	B22020962-002A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.14r	B22020962-007A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.15r	B22020962-012A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.16r	B22020962-018A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons

G:\Org\VAR\DAT\VAR021722_b\0217VAR.17r	B22020962-022A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.18r	B22020962-033A ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.19r	B22020962-001G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.20r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.21r	B22020962-031GMS, GQC ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.22r	B22020962-031GMSD, GQC ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.23r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.24r	CCV_0217VAR24r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.25r	CCV_0217VAR25r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.26r	LCS_0217VAR26r, GQC ;0217VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.27r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.28r	MBLK_0217VAR28r, QC ;0217VAR ,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.29r	B22020962-006G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\2112(	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.30r	BLANK	G:\Org\VAR\Methods\2112(	1	1	1	1	0	None

G:\Org\VAR\DAT\VAR021722_b\0217VAR.31r	B22020962-011G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.32r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.33r	B22020962-016G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.34r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.35r	B22020962-021G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.36r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.37r	B22020962-026G ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.38r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.39r	B22020962-032D ;0217VAR , $HC-8015-GRO-W,	G:\Org\VAR\Methods\21120	5	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.40r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.41r	CCV_0217VAR41r, GQC ;0217VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	To maintain continuous baseline and split closely eluting hydrocarbons
G:\Org\VAR\DAT\VAR021722_b\0217VAR.42r	CCV_0217VAR42r, GQC ;0217VAR ,	G:\Org\VAR\Methods\21120	1	1	1	1	0	None
G:\Org\VAR\DAT\VAR021722_b\0217VAR.43r	BLANK	G:\Org\VAR\Methods\21120	1	1	1	1	0	

Josie M Pickard
Chemist

Digitally signed by
Josie Pickard
Date: 2022.02.19 09:34:07 -07:00

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: 3GAS160127
Standard Name: Alaska Gasoline Calibration Mix Version 4/8/02
Type: Neat
Prep Date: 1/27/2016
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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	Bottle No	Amt	Units	Expires
Alaska Gasoline Calibration Mix Version 4/8/02	8120	5	mL	6/7/2023

Stock Source	Base Units	Amount Added

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: GAS210122
Standard Name: Unleaded Gasoline Comp. Std.(2.0uL)
Prep Date: 1/22/2021
Exp Date: 6/7/2023
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Concentration : 4.2ug/ul

Type: Secondary
Prep By: Josie Pickard
Status: New
Final Volume: 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap DZ880	13323	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
GASH210122	ug/mL	0.84 mL

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: GASH210122
Standard Name: Unleaded Gasoline Composite
Type: Primary
Prep Date: 1/22/2021
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor:
Final Volume: 10 mL
Lot Number:
Balance ID:
Comments: Concetration : 50,000 ug/ml

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap DZ880	13323	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
3GAS160127	ug/mL	0.5022 g

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: GASL211208
Standard Name: Low Gasoline Std.
Prep Date: 12/8/2021
Exp Date: 6/7/2023
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: concentration 0.42ug/ul

Type: Secondary
Prep By: Josie Pickard
Status: Open
Final Volume: 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	14400	0.9	mL	6/7/2023

Stock Source	Base Units	Amount Added
GAS210122	ug/mL	0.1 mL

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: GQC201214
Standard Name: Gasoline Composite Mix (1.68uL)
Type: Primary
Prep Date: 12/14/2020
Prep By: Josie Pickard
Exp Date: 4/2/2030
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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	Bottle No	Amt	Units	Expires
Gasoline Composite Mix	13338	5	mL	4/2/2030

Stock Source	Base Units	Amount Added
GQC201214	ug/mL	5 mL

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: GROS200921
Standard Name: Gro Stock Standard Mt.Gro
Type: Primary
Prep Date: 9/21/2020
Prep By: Josie Pickard
Exp Date: 3/28/2029
Status: Open
Department: GCVOA
Vendor: Accustandard
Final Volume: 2 mL
Lot Number: 219031408
Balance ID:
Comments: 10 Component Mix (varing concentrations) 100 mg/ml

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Standard	13090	2	mL	3/28/2029

Stock Source	Base Units	Amount Added
GROS200921	ug/mL	2 mL

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: TFT211208
Standard Name: TFT (1.05uL)
Prep Date: 12/8/2021
Exp Date: 9/10/2029
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Final concentration : 1.0mg/mL

Type: Secondary
Prep By: Josie Pickard
Status: New
Final Volume: 2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	14400	1.9	mL	9/10/2029

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

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: TFTL211208
Standard Name: TFTL
Type: Secondary
Prep Date: 12/8/2021
Prep By: Josie Pickard
Exp Date: 9/10/2029
Status: New
Department: GCVOA
Vendor:
Final Volume: 1 mL
Lot Number:
Balance ID:
Comments: Final concentration :0.01mg/mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	14400	0.9	mL	9/10/2029

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

Analytical RunID VARIAN1_211208B Standards Traceability Report

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

Type: Secondary
Prep By: Josie Pickard
Status: New
Final Volume: 1 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB199	14400	0.9	mL	9/10/2029

Stock Source	Base Units	Amount Added
TFT211208	ug/mL	0.1 mL

Analytical RunID VARIAN1_211208B Standards Traceability Report

Standard ID: TFTS210607
Standard Name: TFT Stock
Type: Primary
Prep Date: 6/7/2021
Prep By: Josie Pickard
Exp Date: 9/10/2029
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 10 mL
Lot Number: 219091095
Balance ID:
Comments: 20mg/ml in Meoh Date prepared is date received.

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
a,a,a-Trifluorotoluene	13921	10	mL	9/10/2029

Stock Source	Base Units	Amount Added

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

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

Josie

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

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.

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

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

For use in routine laboratory analysis.

Analytical RunID VARIAN1_220217A Standards Traceability Report

Standard ID: 3GAS160127
Standard Name: Alaska Gasoline Calibration Mix Version 4/8/02
Type: Neat
Prep Date: 1/27/2016
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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	Bottle No	Amt	Units	Expires
Alaska Gasoline Calibration Mix Version 4/8/02	8120	5	mL	6/7/2023

Stock Source	Base Units	Amount Added

Analytical RunID VARIAN1_220217A Standards Traceability Report

Standard ID: GAS220104
Standard Name: Unleaded Gasoline Comp. Std.(2.0uL)
Prep Date: 1/4/2022
Exp Date: 6/7/2023
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Concentration : 4.2ug/ul

Type: Secondary
Prep By: Josie Pickard
Status: New
Final Volume: 10 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB373	14519	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
GASH210122	ug/mL	0.84 mL

Analytical RunID VARIAN1_220217A Standards Traceability Report

Standard ID: GASH210122
Standard Name: Unleaded Gasoline Composite
Type: Primary
Prep Date: 1/22/2021
Prep By: Josie Pickard
Exp Date: 6/7/2023
Status: New
Department: GCVOA
Vendor:
Final Volume: 10 mL
Lot Number:
Balance ID:
Comments: Concetration : 50,000 ug/ml

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap DZ880	13323	10	mL	6/7/2023

Stock Source	Base Units	Amount Added
3GAS160127	ug/mL	0.5022 g

Analytical RunID VARIAN1_220217A Standards Traceability Report

Standard ID: GQC211012
Standard Name: Gasoline Composite Mix (1.68uL)
Type: Primary
Prep Date: 10/12/2021
Prep By: Josie Pickard
Exp Date: 4/2/2030
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 5 mL
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

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Composite Mix	14373	5	mL	4/2/2030

Stock Source	Base Units	Amount Added
GQC211012	ug/mL	

Analytical RunID VARIAN1_220217A Standards Traceability Report

Standard ID: GROS200921
Standard Name: Gro Stock Standard Mt.Gro
Type: Primary
Prep Date: 9/21/2020
Prep By: Josie Pickard
Exp Date: 3/28/2029
Status: Open
Department: GCVOA
Vendor: Accustandard
Final Volume: 2 mL
Lot Number: 219031408
Balance ID:
Comments: 10 Component Mix (varing concentrations) 100 mg/ml

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Gasoline Standard	13090	2	mL	3/28/2029

Stock Source	Base Units	Amount Added
GROS200921	ug/mL	2 mL

Analytical RunID VARIAN1_220217A Standards Traceability Report

Standard ID: TFT220209
Standard Name: TFT (1.05uL)
Prep Date: 2/9/2022
Exp Date: 9/10/2029
Department: GCVOA
Vendor:
Lot Number:
Balance ID:
Comments: Final concentration : 1.0mg/mL

Type: Secondary
Prep By: Josie Pickard
Status: New
Final Volume: 2 mL

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
Methanol, Purge and Trap EB373	14519	1.9	mL	9/10/2029

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

Analytical RunID VARIAN1_220217A Standards Traceability Report

Standard ID: TFTS210607
Standard Name: TFT Stock
Type: Primary
Prep Date: 6/7/2021
Prep By: Josie Pickard
Exp Date: 9/10/2029
Status: New
Department: GCVOA
Vendor: Accustandard
Final Volume: 10 mL
Lot Number: 219091095
Balance ID:
Comments: 20mg/ml in Meoh Date prepared is date received.

Chemical/Solvent Used	Bottle No	Amt	Units	Expires
a,a,a-Trifluorotoluene	13921	10	mL	9/10/2029

Stock Source	Base Units	Amount Added

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

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

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

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 #: 14373
Opened:_____
Gasoline Composite Mix
Expires: 4/2/2030
Rec'd: 10/12/2021
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

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

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

For use in routine laboratory analysis.