

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082219\
 Data File : VX011774.D
 Acq On : 22 Aug 2019 20:03
 Operator : JC/SP
 Sample : K4402-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FRAC-TANK-MUD

Quant Time: Aug 23 02:05:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	453963	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	627888	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	564733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	285595	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	215401	47.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.46%	
35) Dibromofluoromethane	5.49	113	133622	32.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.82%	
50) Toluene-d8	8.71	98	715322	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	
62) 4-Bromofluorobenzene	11.13	95	248506	44.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.78%	

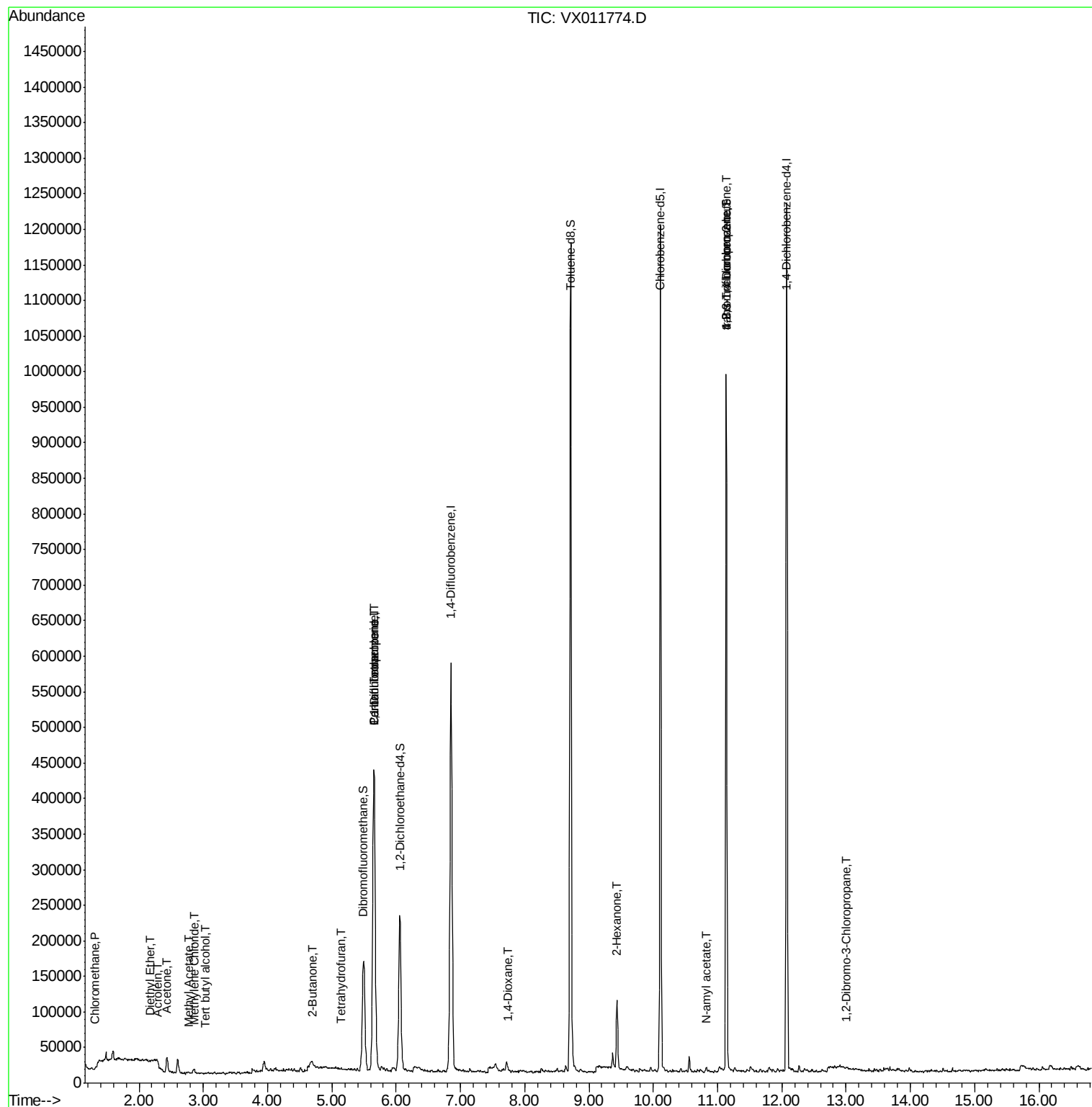
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	917	0.247	ug/l	98
8) Diethyl Ether	2.17	74	1141	0.567	ug/l	85
11) Tert butyl alcohol	3.03	59	423	0.469	ug/l #	1
13) Acrolein	2.29	56	490	1.407	ug/l #	83
16) Acetone	2.43	43	22700	11.443	ug/l	93
18) Methyl Acetate	2.78	43	1442	0.268	ug/l #	8
20) Methylene Chloride	2.85	84	3852	0.950	ug/l #	90
25) 2-Butanone	4.68	43	5517	1.938	ug/l	100
29) Tetrahydrofuran	5.14	42	714	0.391	ug/l #	65
36) 1,1-Dichloropropene	5.65	75	25378	5.154	ug/l #	53
38) Carbon Tetrachloride	5.65	117	39193	7.024	ug/l #	16
49) 1,4-Dioxane	7.74	88	304	2.614	ug/l #	61
59) 2-Hexanone	9.43	43	64307	15.077	ug/l #	24
74) N-amyl acetate	10.83	43	3360	0.504	ug/l #	58
76) 1,2,3-Trichloropropane	11.13	75	115026	22.953	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	115026	69.223	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.01	75	305	0.230	ug/l	57

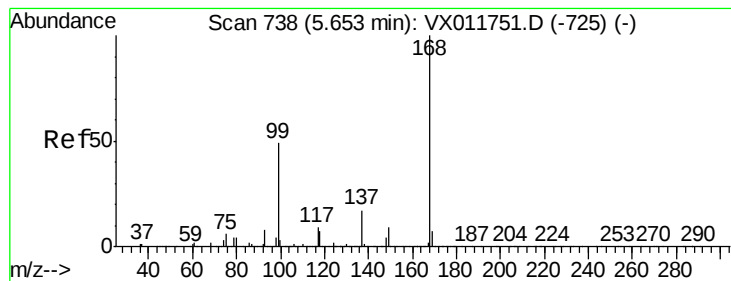
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

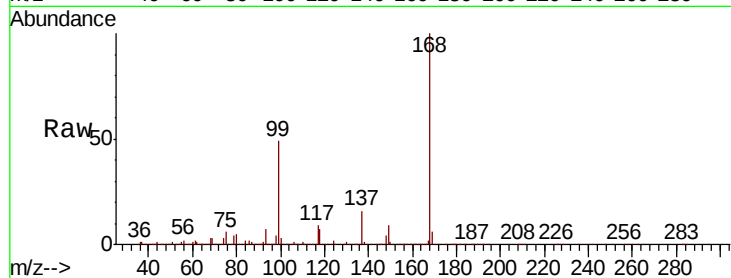
FRAC-TANK-MUD

Tgt Ion:168 Resp: 453963

Ion Ratio Lower Upper

168 100

99 48.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

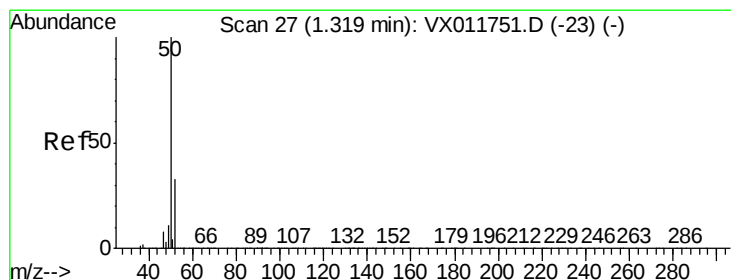
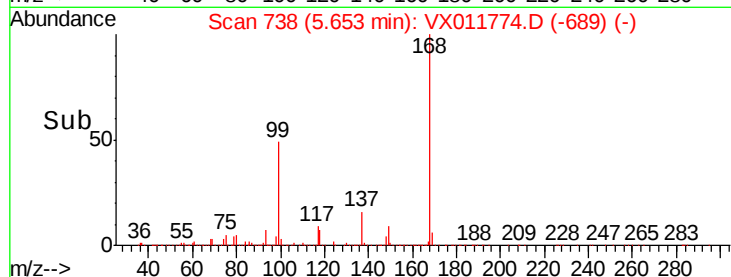
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.247 ug/l

RT: 1.31 min Scan# 25

Delta R.T. -0.01 min

Lab File: VX011774.D

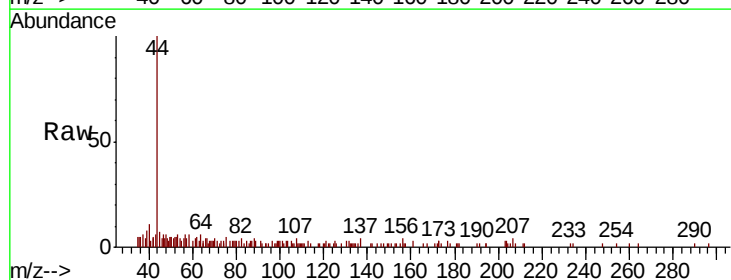
Acq: 22 Aug 2019 20:03

Tgt Ion: 50 Resp: 917

Ion Ratio Lower Upper

50 100

52 34.5 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

600

500

400

300

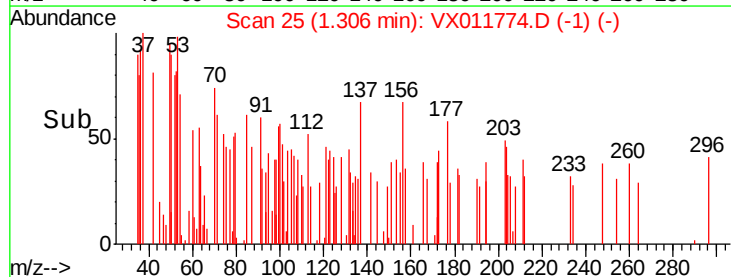
200

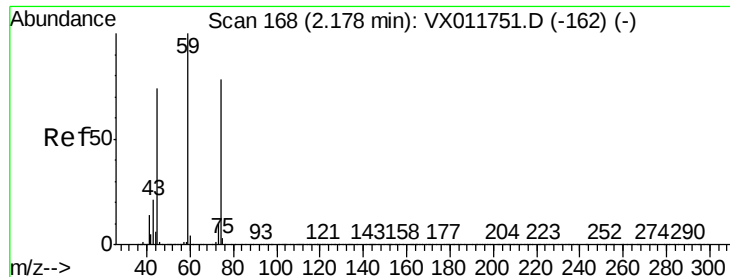
100

0

Time-->

1.30 1.35





#8

Diethyl Ether

Concen: 0.567 ug/l

RT: 2.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

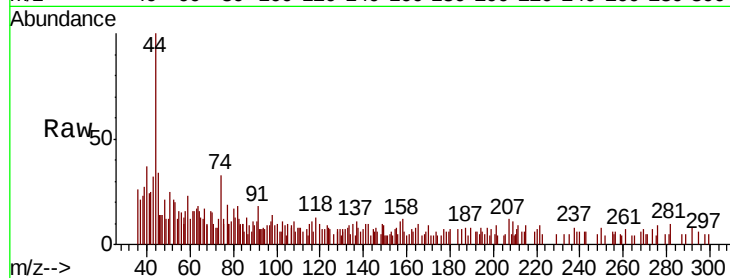
FRAC-TANK-MUD

Tgt Ion: 74 Resp: 1141

Ion Ratio Lower Upper

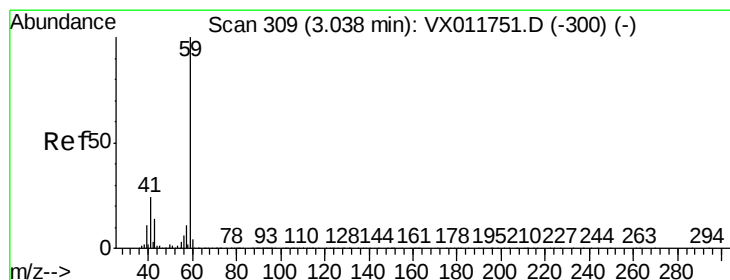
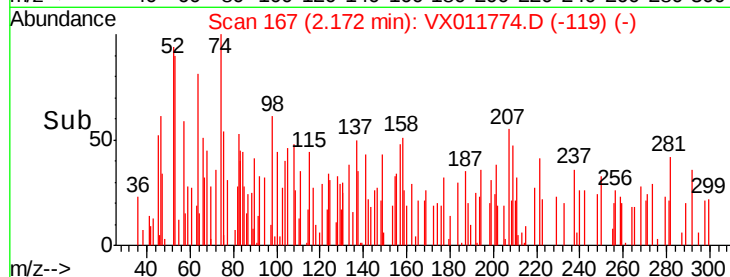
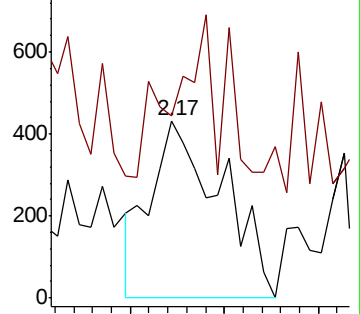
74 100

45 79.0 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.469 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.01 min

Lab File: VX011774.D

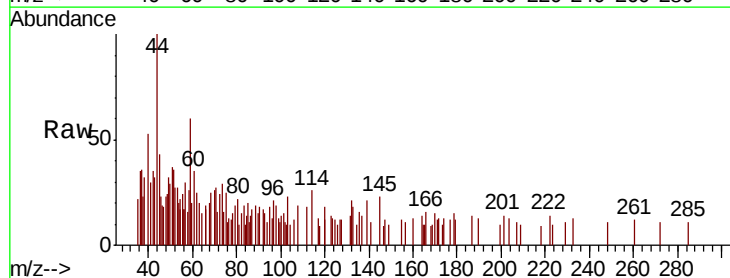
Acq: 22 Aug 2019 20:03

Tgt Ion: 59 Resp: 423

Ion Ratio Lower Upper

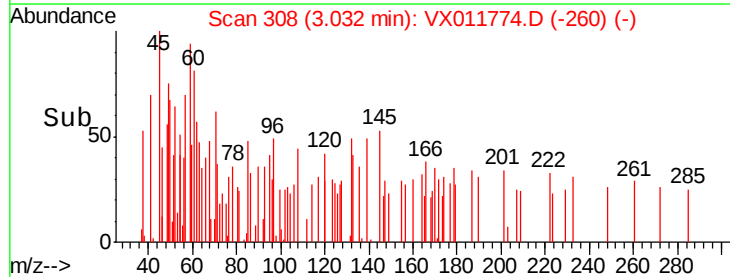
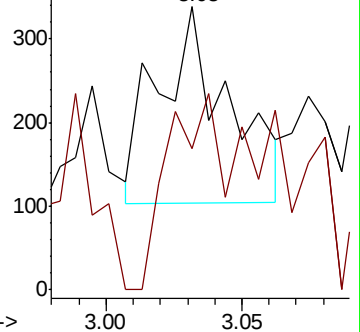
59 100

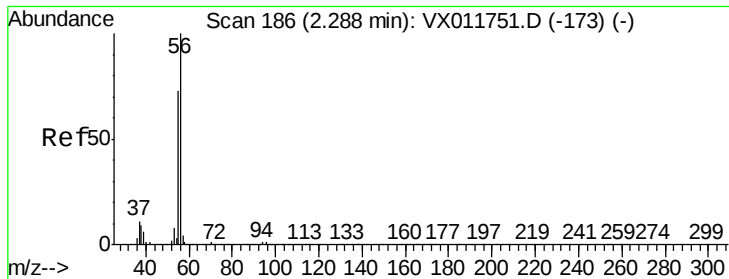
57 74.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.407 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

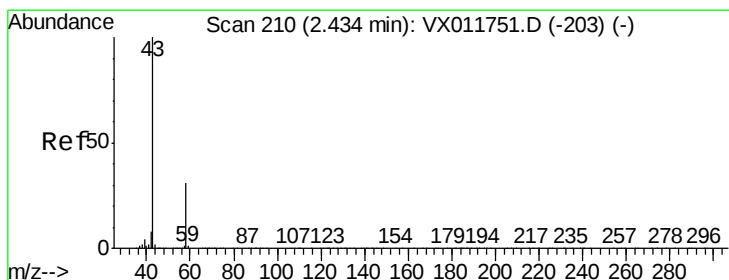
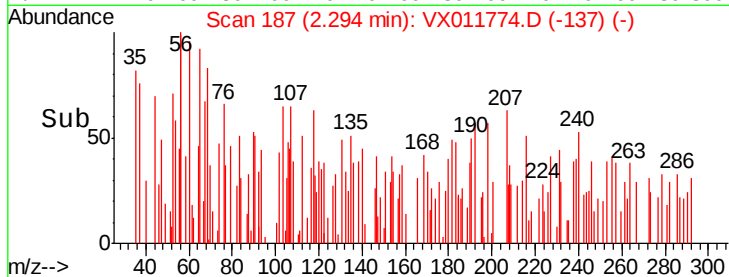
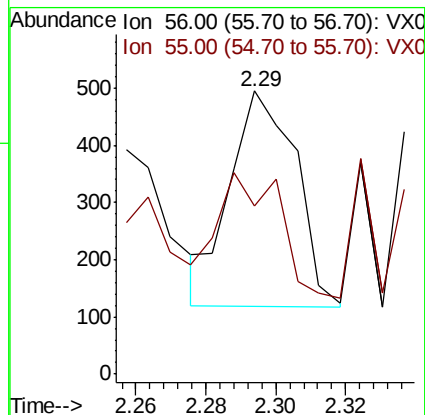
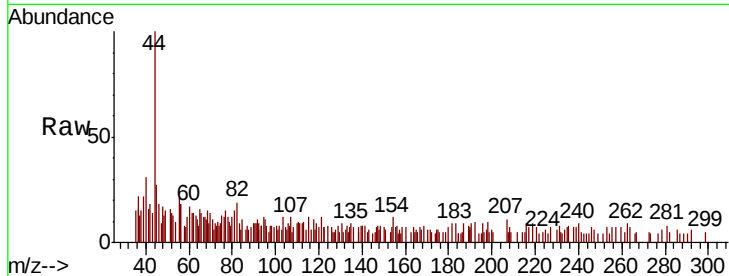
FRAC-TANK-MUD

Tgt Ion: 56 Resp: 490

Ion Ratio Lower Upper

56 100

55 54.7 54.8 82.2#



#16

Acetone

Concen: 11.443 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011774.D

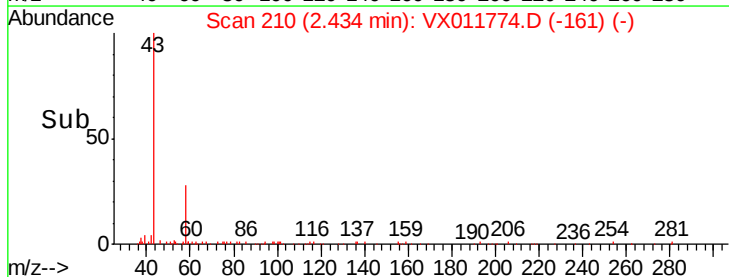
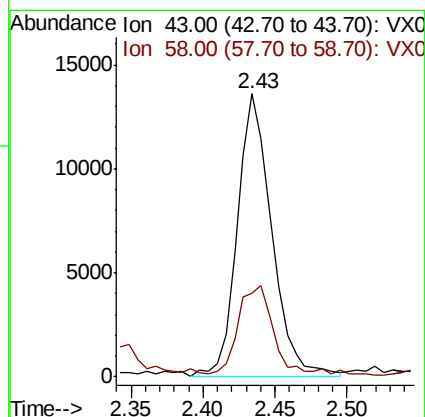
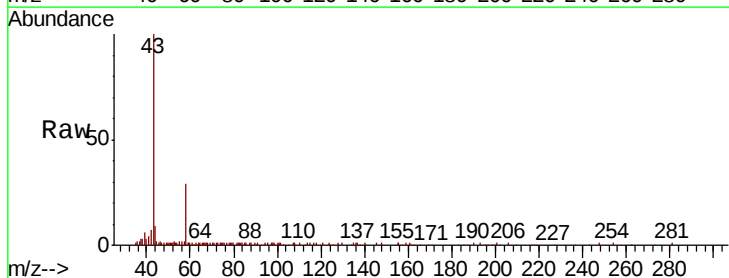
Acq: 22 Aug 2019 20:03

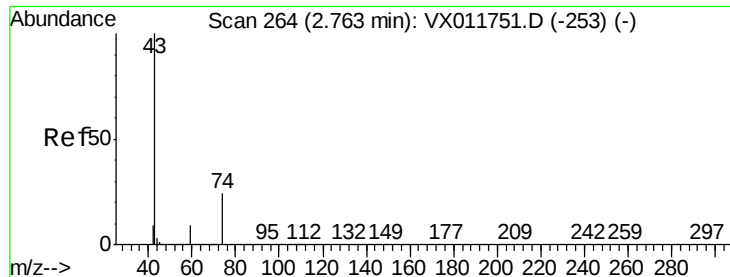
Tgt Ion: 43 Resp: 22700

Ion Ratio Lower Upper

43 100

58 26.9 24.4 36.6

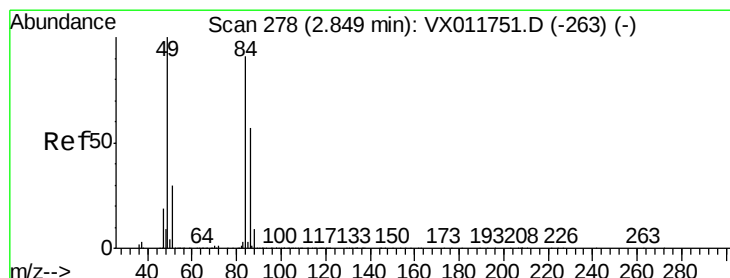
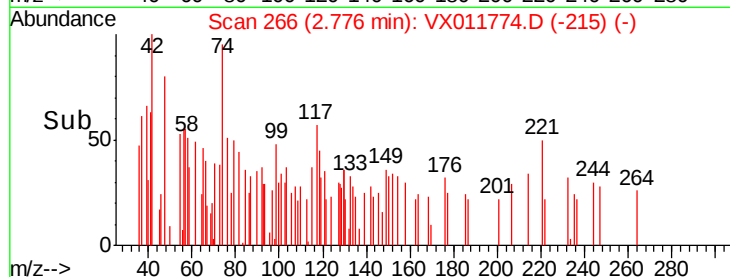
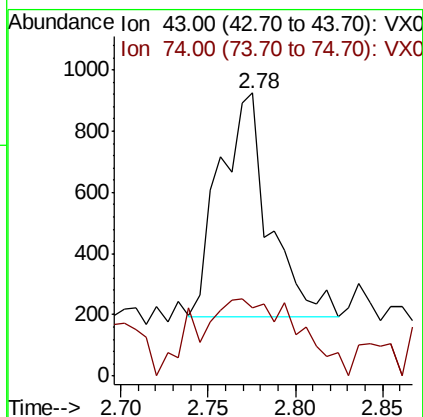
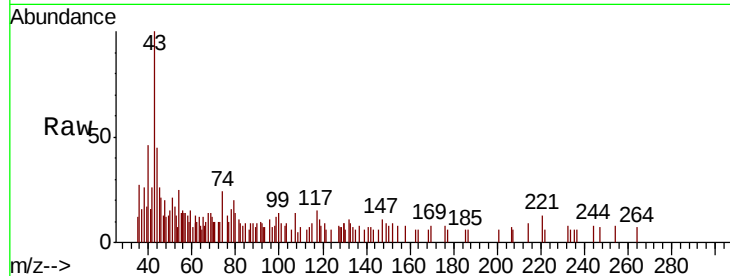




#18
Methyl Acetate
Concen: 0.268 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX011774.D
Acq: 22 Aug 2019 20:03

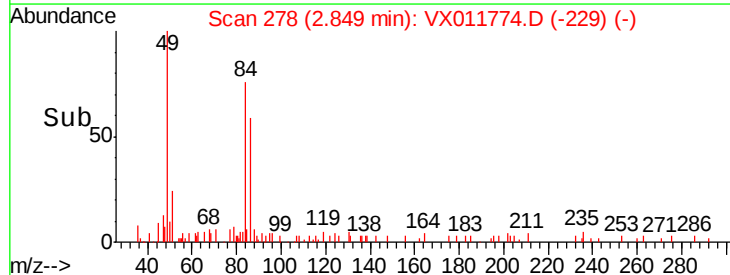
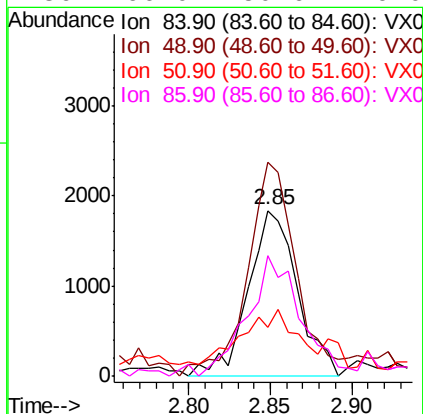
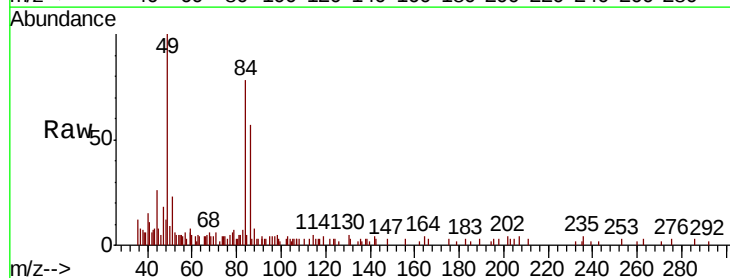
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-MUD

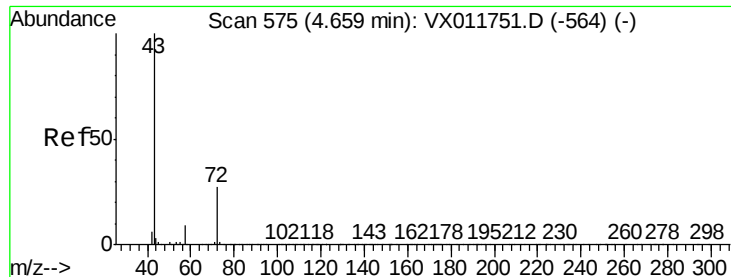
Tgt Ion: 43 Resp: 1442
Ion Ratio Lower Upper
43 100
74 70.2 19.5 29.3#



#20
Methylene Chloride
Concen: 0.950 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011774.D
Acq: 22 Aug 2019 20:03

Tgt Ion: 84 Resp: 3852
Ion Ratio Lower Upper
84 100
49 122.0 88.3 132.5
51 20.9 26.2 39.2#
86 66.0 50.6 76.0





#25

2-Butanone

Concen: 1.938 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

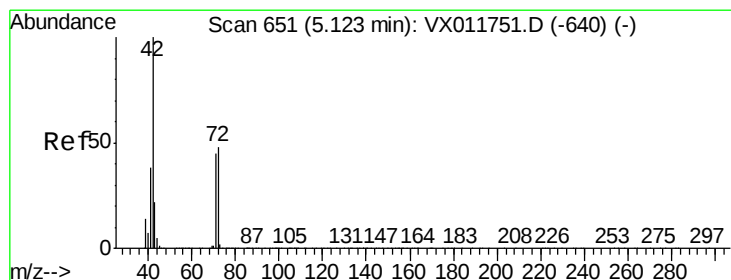
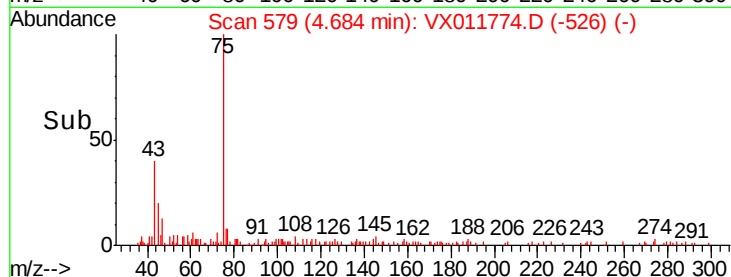
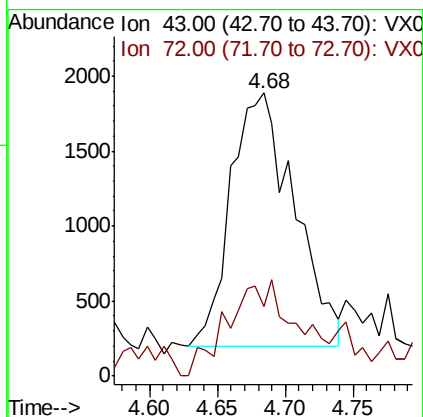
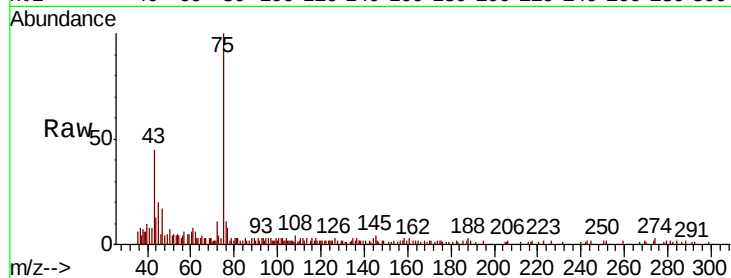
FRAC-TANK-MUD

Tgt Ion: 43 Resp: 5517

Ion Ratio Lower Upper

43 100

72 27.2 21.8 32.6



#29

Tetrahydrofuran

Concen: 0.391 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.02 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

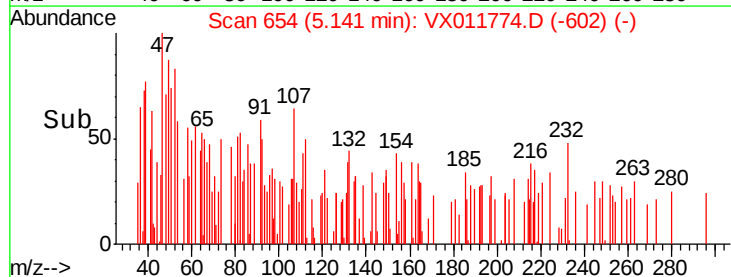
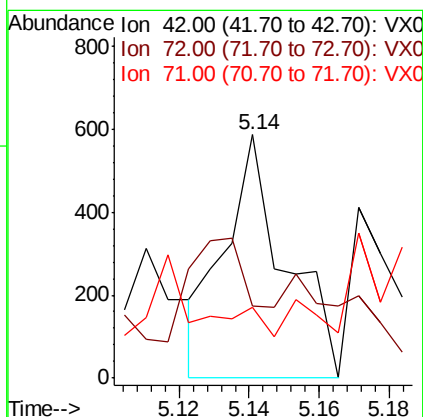
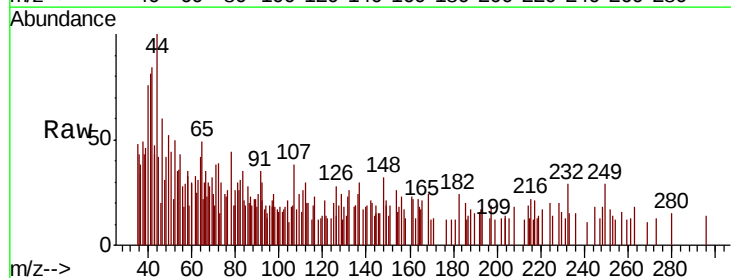
Tgt Ion: 42 Resp: 714

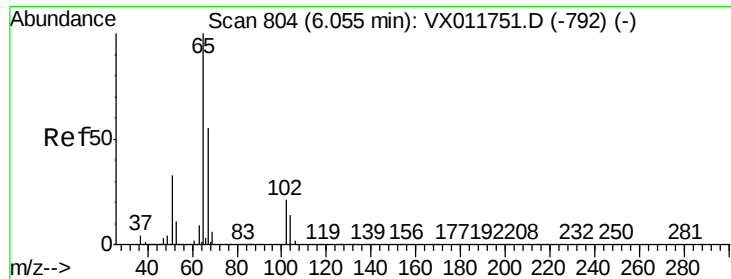
Ion Ratio Lower Upper

42 100

72 43.1 37.6 56.4

71 0.0 34.6 51.8#





#33

1,2-Dichloroethane-d4

Concen: 47.234 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

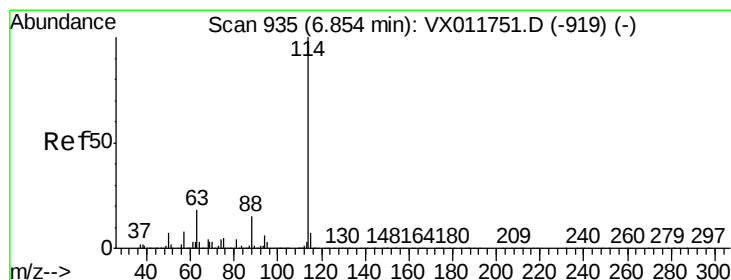
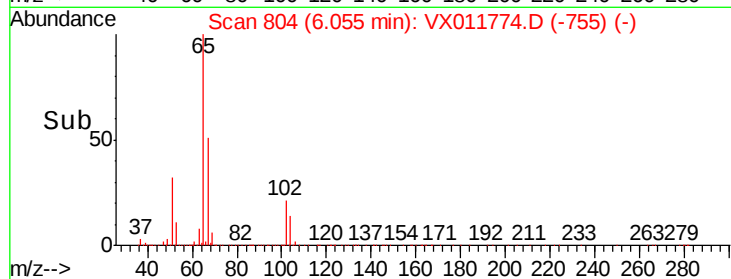
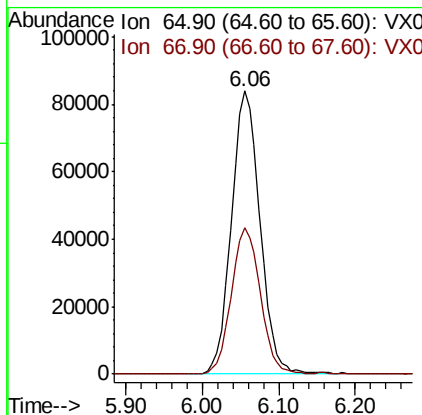
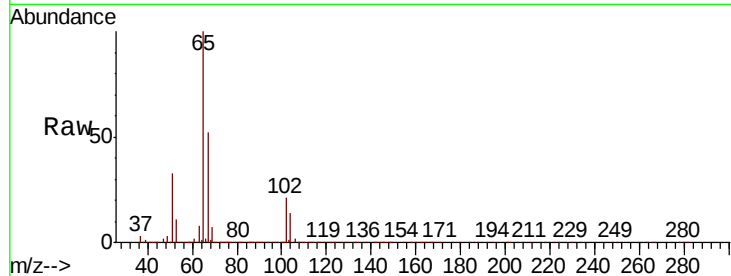
FRAC-TANK-MUD

Tgt Ion: 65 Resp: 215401

Ion Ratio Lower Upper

65 100

67 52.3 0.0 107.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

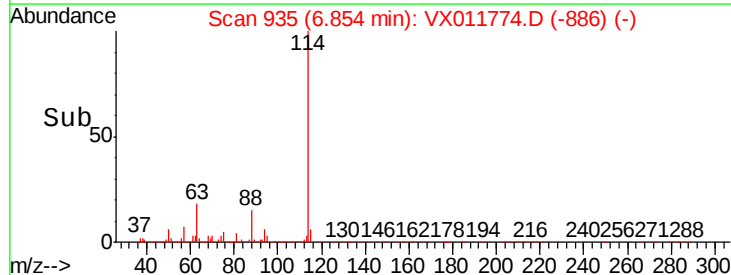
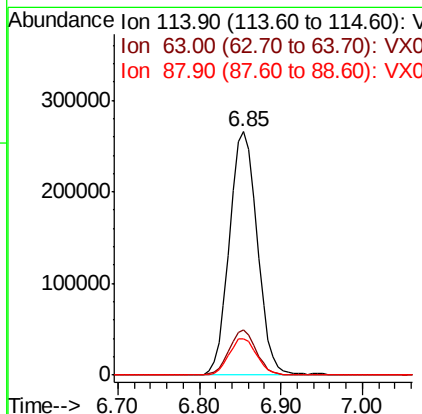
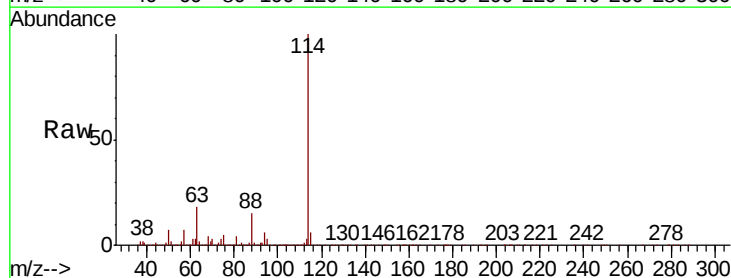
Tgt Ion: 114 Resp: 627888

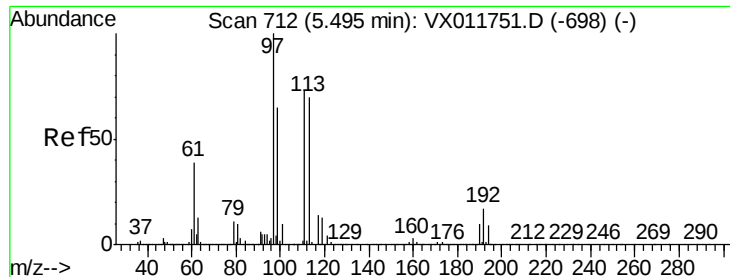
Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.8

88 14.9 0.0 30.2

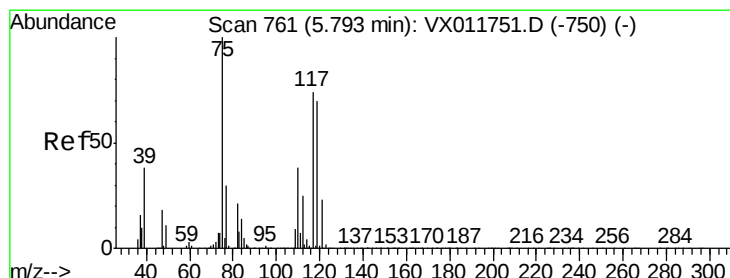
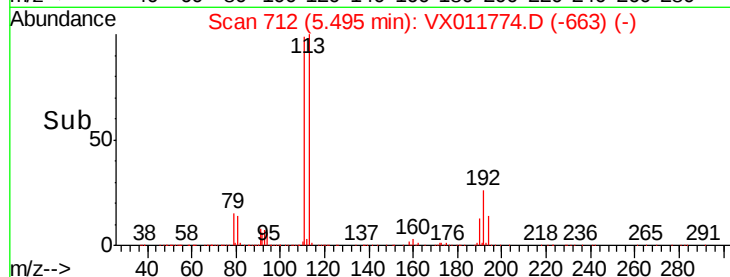
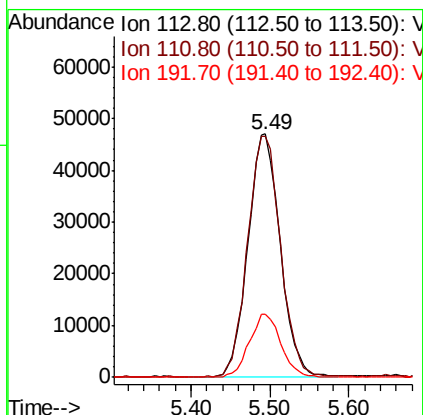
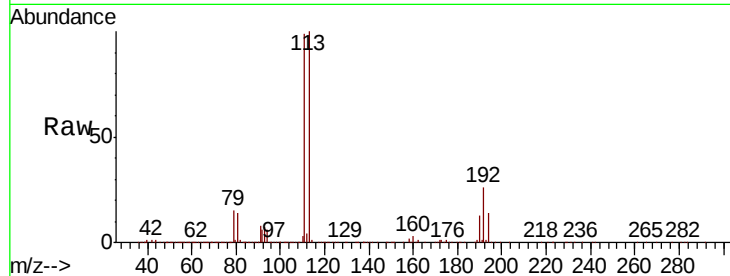




#35
 Dibromofluoromethane
 Concen: 32.910 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011774.D
 Acq: 22 Aug 2019 20:03

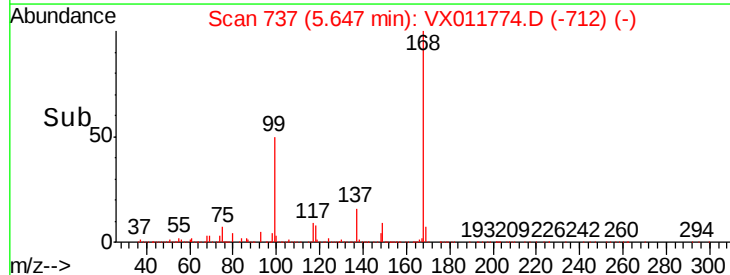
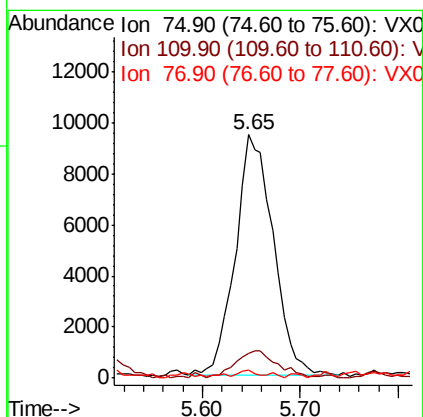
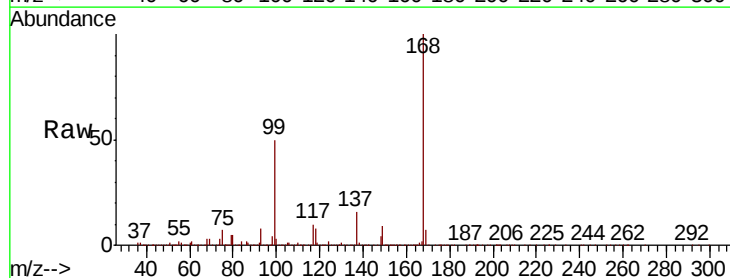
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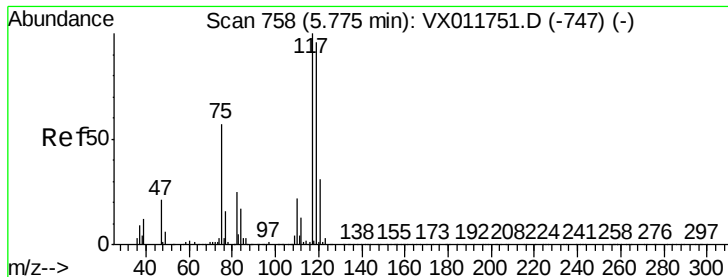
Tgt Ion: 113 Resp: 133622
 Ion Ratio Lower Upper
 113 100
 111 101.4 81.0 121.4
 192 25.6 19.9 29.9



#36
 1,1-Dichloropropene
 Concen: 5.154 ug/l
 RT: 5.65 min Scan# 737
 Delta R.T. -0.15 min
 Lab File: VX011774.D
 Acq: 22 Aug 2019 20:03

Tgt Ion: 75 Resp: 25378
 Ion Ratio Lower Upper
 75 100
 110 12.9 19.0 57.0#
 77 1.9 24.6 36.8#

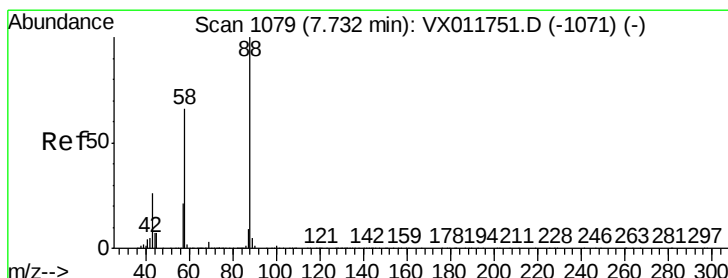
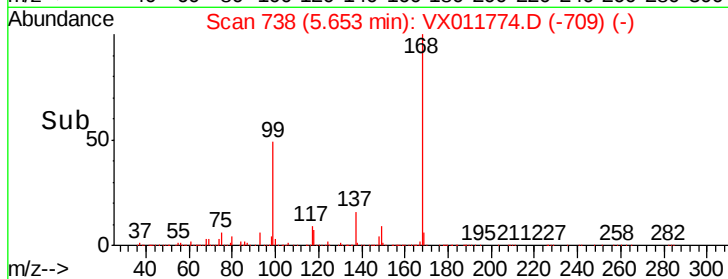
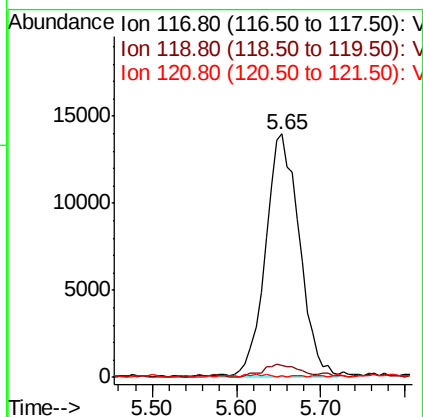
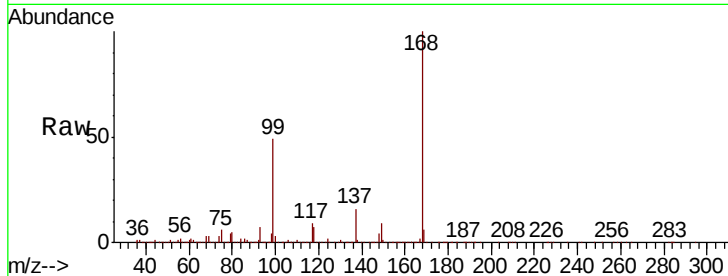




#38
Carbon Tetrachloride
Concen: 7.024 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.12 min
Lab File: VX011774.D
Acq: 22 Aug 2019 20:03

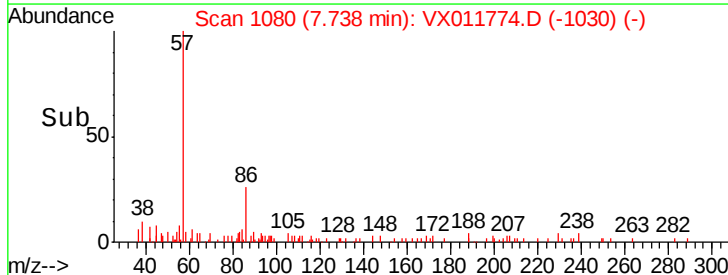
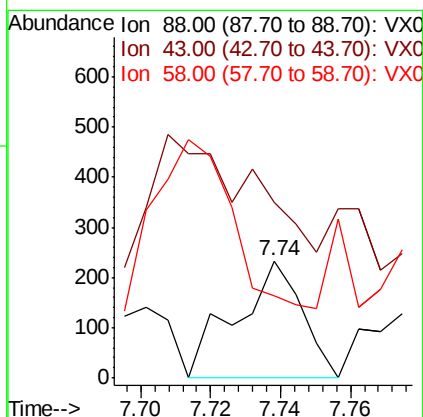
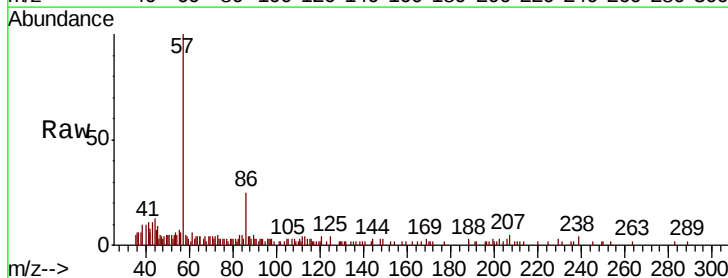
Instrument :
MSVOA_X
ClientSampleId :
FRAC-TANK-MUD

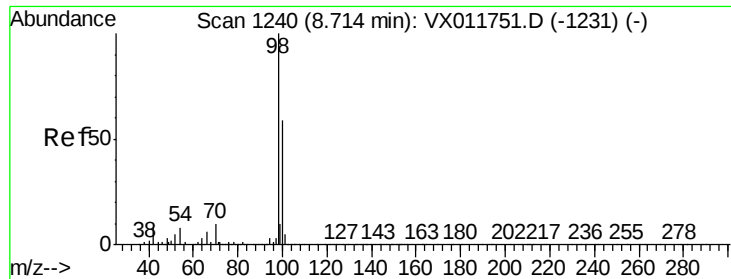
Tgt Ion: 117 Resp: 39193
Ion Ratio Lower Upper
117 100
119 4.9 76.6 114.8#
121 0.3 25.2 37.8#



#49
1,4-Dioxane
Concen: 2.614 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VX011774.D
Acq: 22 Aug 2019 20:03

Tgt Ion: 88 Resp: 304
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 40.5 51.4 77.2#





#50

Toluene-d8

Concen: 50.510 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

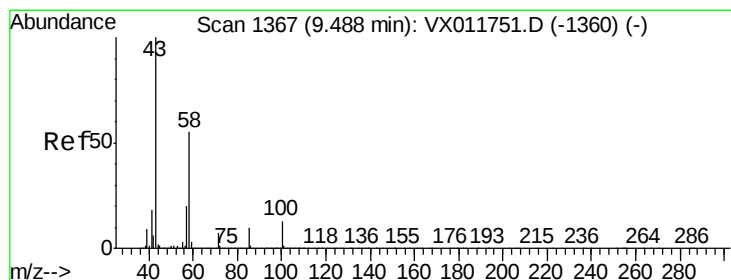
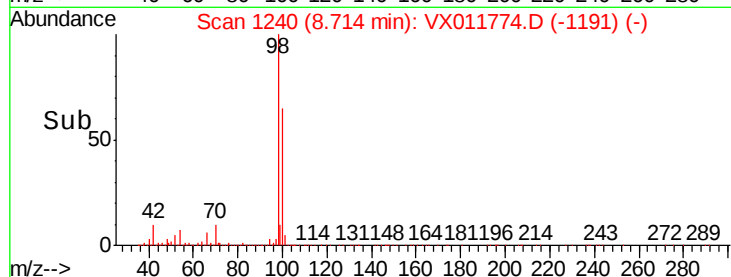
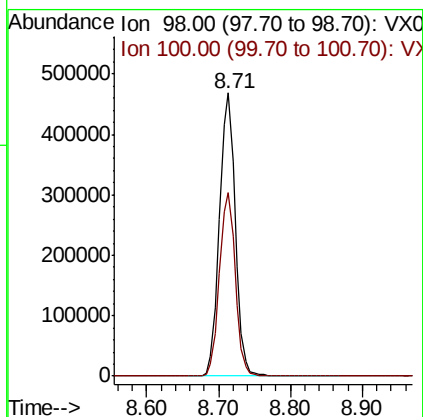
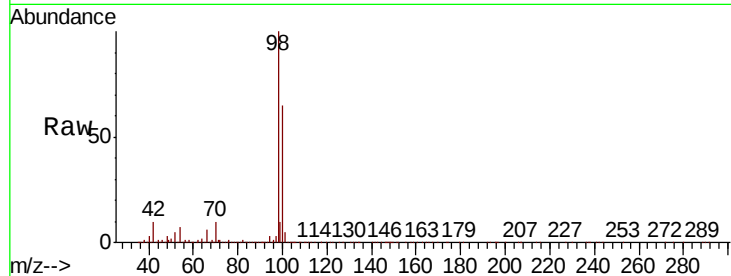
FRAC-TANK-MUD

Tgt Ion: 98 Resp: 715322

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1



#59

2-Hexanone

Concen: 15.077 ug/l

RT: 9.43 min Scan# 1358

Delta R.T. -0.05 min

Lab File: VX011774.D

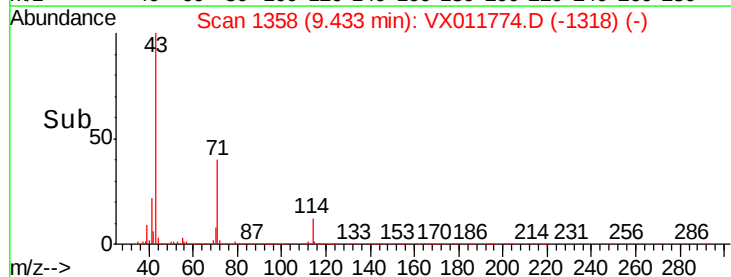
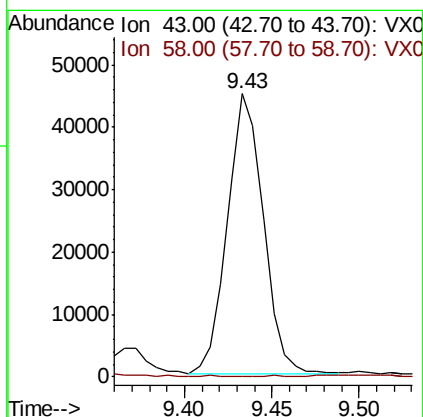
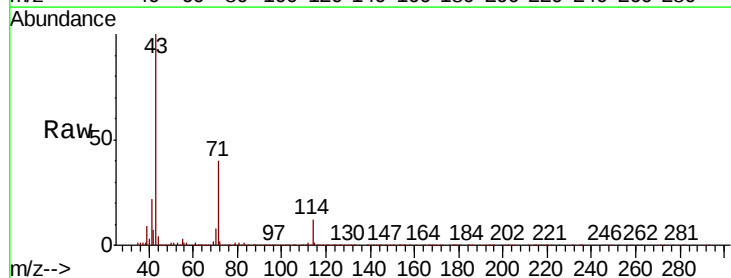
Acq: 22 Aug 2019 20:03

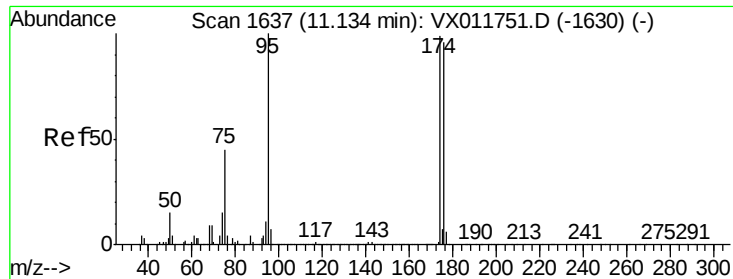
Tgt Ion: 43 Resp: 64307

Ion Ratio Lower Upper

43 100

58 0.2 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 44.395 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

FRAC-TANK-MUD

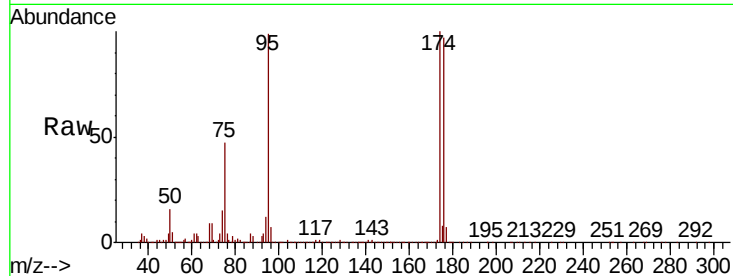
Tgt Ion: 95 Resp: 248506

Ion Ratio Lower Upper

95 100

174 102.0 0.0 197.4

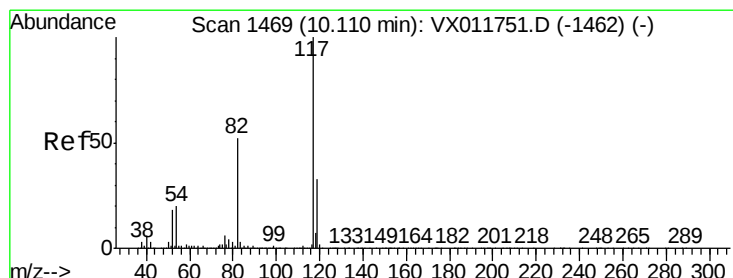
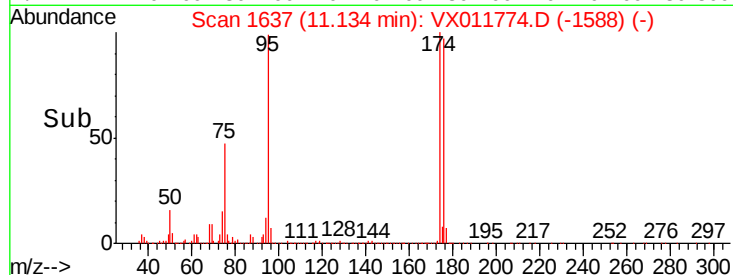
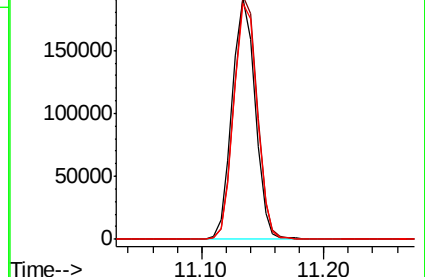
176 99.0 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX011751.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX011751.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX011751.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

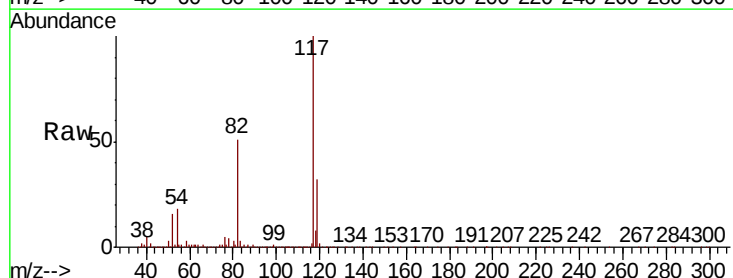
Tgt Ion: 117 Resp: 564733

Ion Ratio Lower Upper

117 100

82 51.1 41.7 62.5

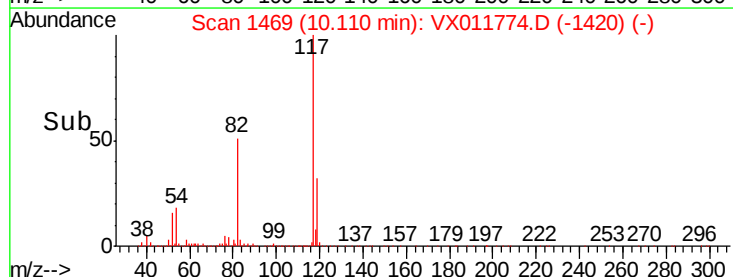
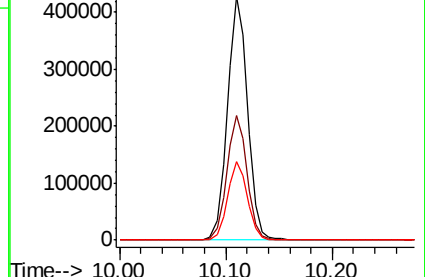
119 32.1 26.2 39.2

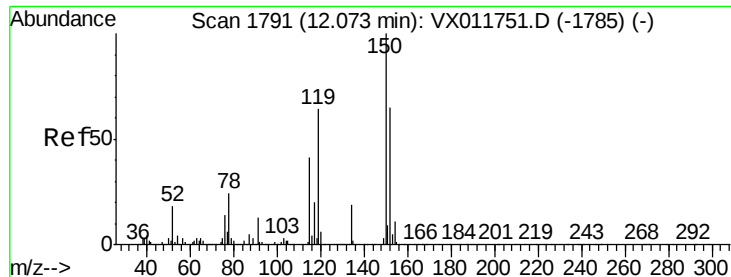


Abundance Ion 116.90 (116.60 to 117.60): VX011751.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011751.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011751.D (-1462) (-)

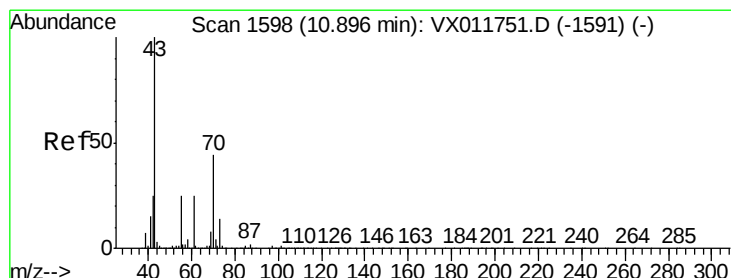
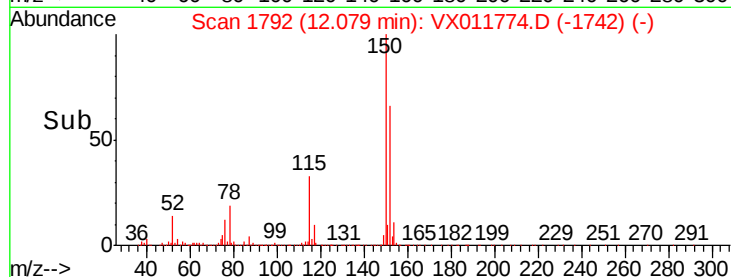
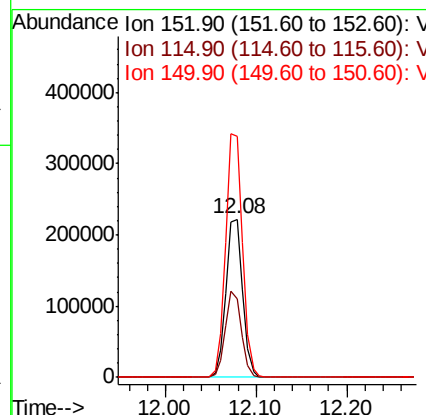
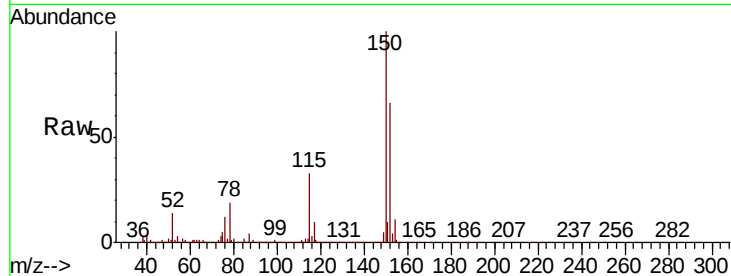




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.01 min
 Lab File: VX011774.D
 Acq: 22 Aug 2019 20:03

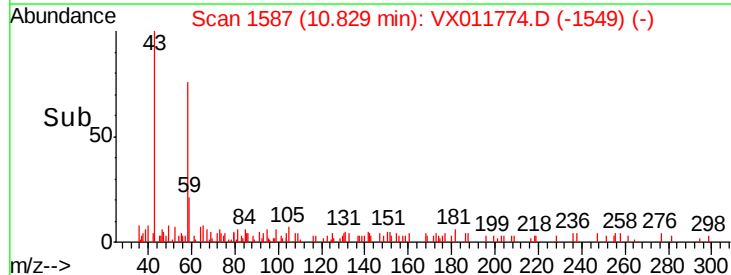
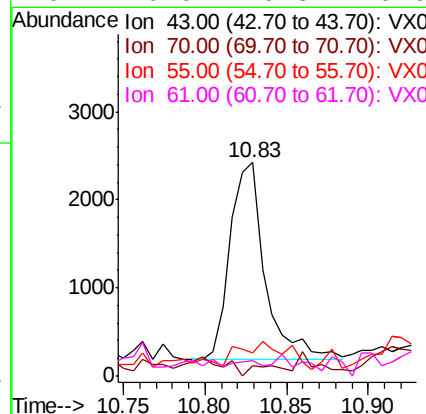
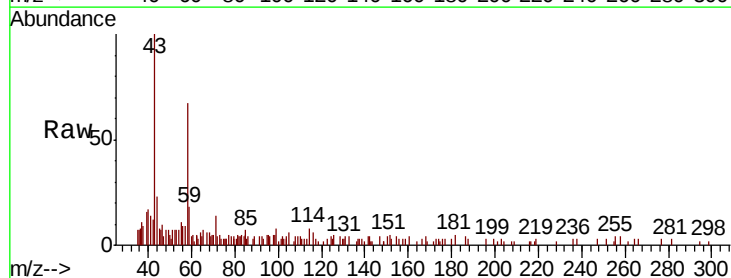
Instrument :
 MSVOA_X
 ClientSampleId :
 FRAC-TANK-MUD

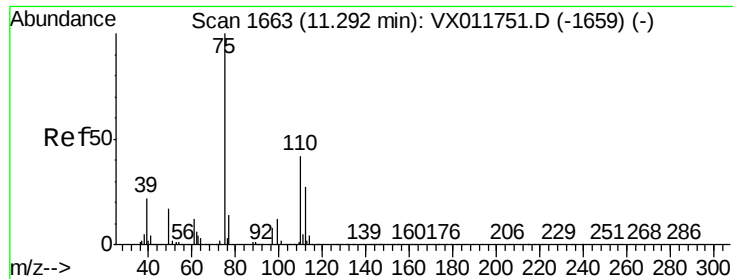
Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.7	37.3	111.8
150	154.9	0.0	343.0



#74
 N-ethyl acetate
 Concen: 0.504 ug/l
 RT: 10.83 min Scan# 1587
 Delta R.T. -0.07 min
 Lab File: VX011774.D
 Acq: 22 Aug 2019 20:03

Tgt Ion	Ratio	Lower	Upper
43	100		
70	4.6	34.8	52.2#
55	23.0	19.5	29.3
61	0.0	19.8	29.6#





#76

1,2,3-Trichloropropane

Concen: 22.953 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

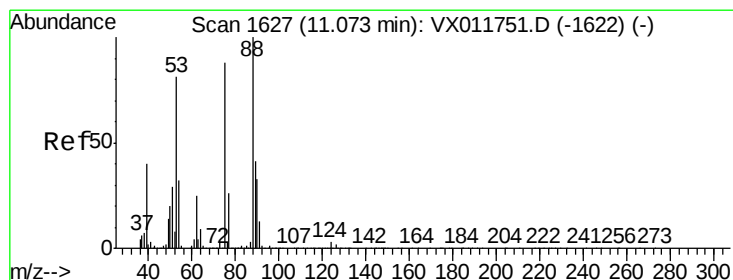
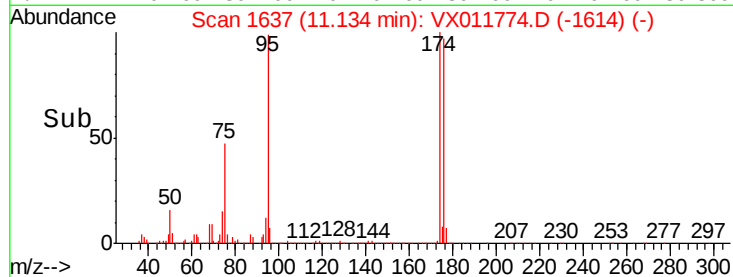
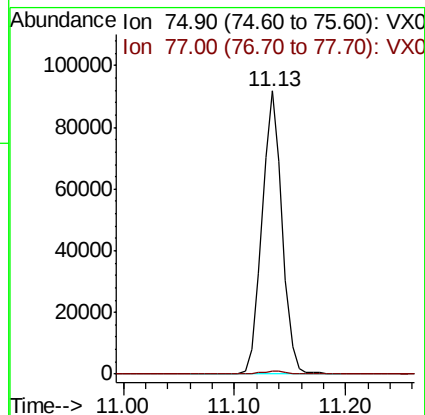
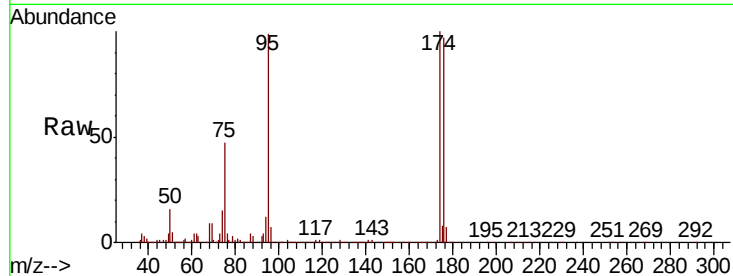
FRAC-TANK-MUD

Tgt Ion: 75 Resp: 115026

Ion Ratio Lower Upper

75 100

77 1.5 21.1 63.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.223 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011774.D

Acq: 22 Aug 2019 20:03

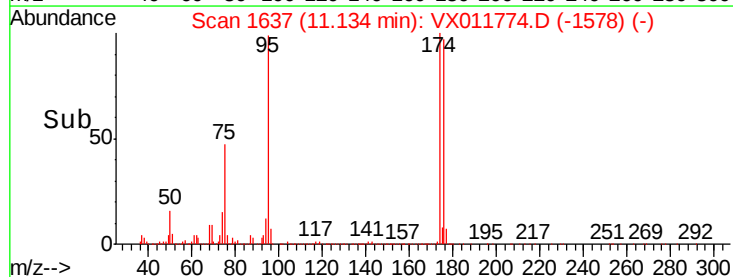
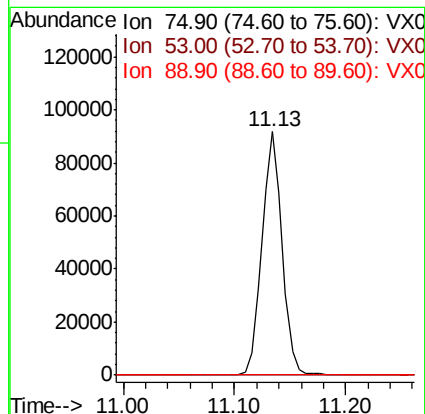
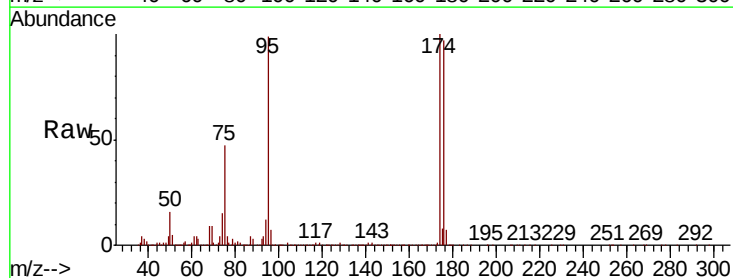
Tgt Ion: 75 Resp: 115026

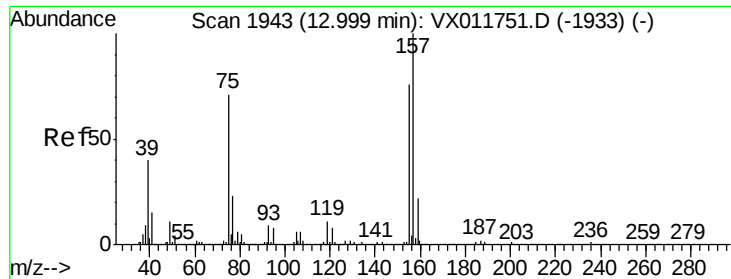
Ion Ratio Lower Upper

75 100

53 0.4 77.1 115.7#

89 0.0 38.5 57.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.230 ug/l
 RT: 13.01 min Scan# 1944
 Delta R.T. 0.01 min
 Lab File: VX011774.D
 Acq: 22 Aug 2019 20:03

Instrument :
 MSVOA_X
 ClientSampleId :
 FRAC-TANK-MUD

Tgt Ion: 75 Resp: 305
 Ion Ratio Lower Upper
 75 100
 155 66.6 52.6 157.9
 157 81.0 68.3 204.9

