

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121318\
 Data File : VX006500.D
 Acq On : 13 Dec 2018 17:31
 Operator : JC/MD
 Sample : J6372-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FP-SOIL-1

Quant Time: Dec 14 00:17:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	633035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1012095	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	921848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	428776	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	346693	53.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.30%	
35) Dibromofluoromethane	5.50	113	274377	41.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.74%	
50) Toluene-d8	8.71	98	1198187	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.13	95	437210	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	

Target Compounds

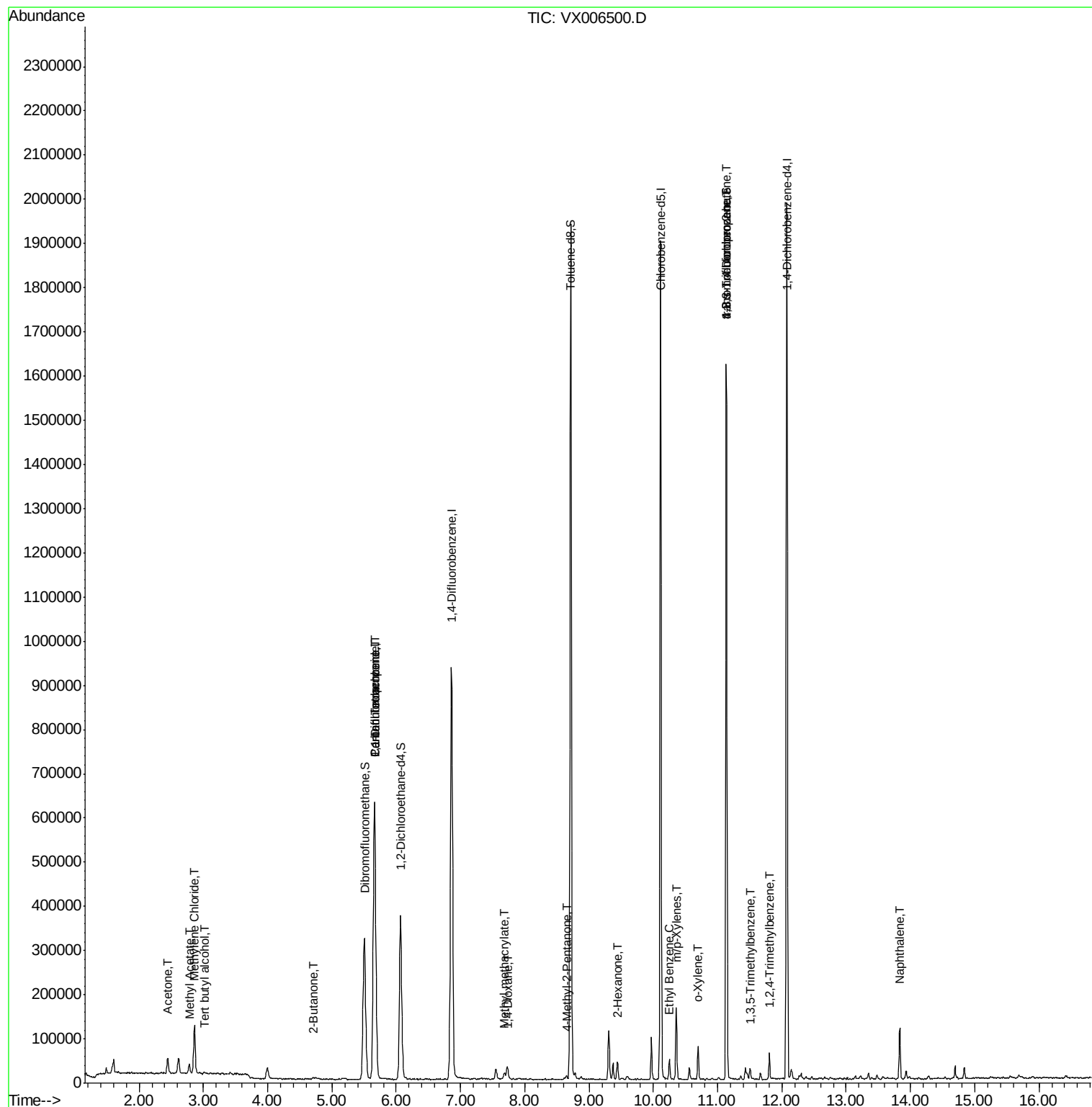
						Qvalue
11) Tert butyl alcohol	3.03	59	2308	1.306	ug/l	96
16) Acetone	2.45	43	38121	12.570	ug/l	97
18) Methyl Acetate	2.78	43	25205	2.485	ug/l #	87
20) Methylene Chloride	2.86	84	50340	7.799	ug/l	96
25) 2-Butanone	4.71	43	5635	1.302	ug/l #	83
36) 1,1-Dichloropropene	5.67	75	43604	5.116	ug/l #	49
38) Carbon Tetrachloride	5.67	117	59935	5.978	ug/l #	16
48) Methyl methacrylate	7.68	41	18169	2.347	ug/l #	18
49) 1,4-Dioxane	7.75	88	74	0.388	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	6670	0.720	ug/l	100
59) 2-Hexanone	9.44	43	23766	3.358	ug/l #	26
67) Ethyl Benzene	10.25	91	25429	0.781	ug/l	96
68) m/p-Xylenes	10.36	106	41504	3.183	ug/l	94
69) o-Xylene	10.69	106	18135	1.408	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	200394	24.214	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	10855	0.441	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	200394	56.823	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	26112	1.026	ug/l	98
95) Naphthalene	13.83	128	76454	2.322	ug/l	99

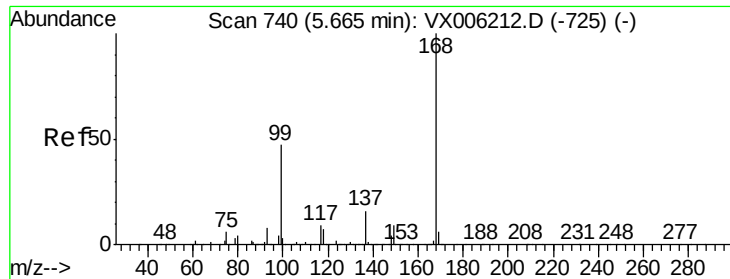
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampled :

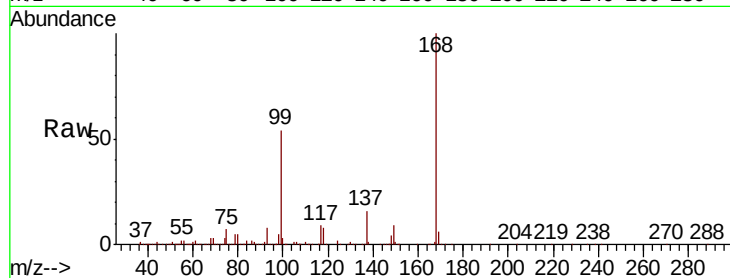
FP-SOIL-1

Tot Ion:168 Resp: 633035

Ion Ratio Lower Upper

168 100

99 53.5 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

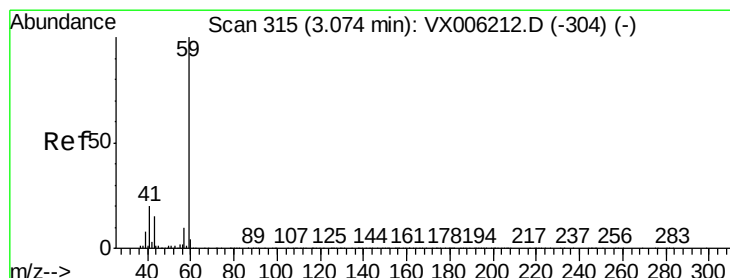
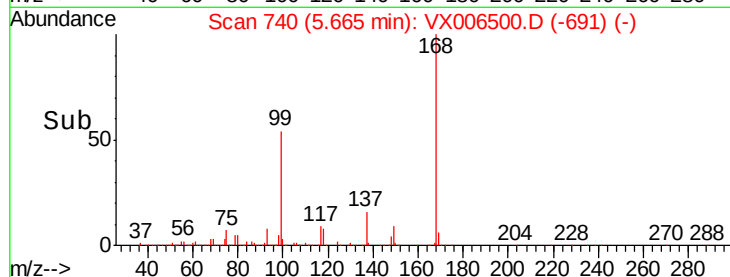
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 1.306 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006500.D

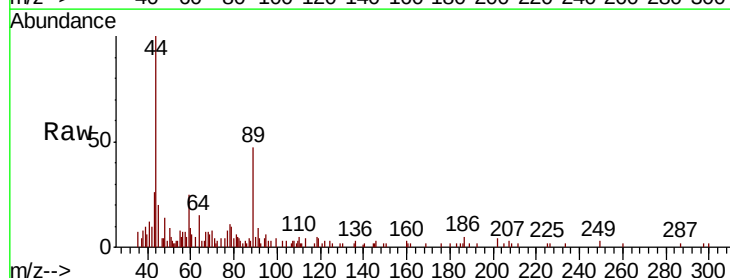
Acq: 13 Dec 2018 17:31

Tgt Ion: 59 Resp: 2308

Ion Ratio Lower Upper

59 100

57 8.7 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

1000

800

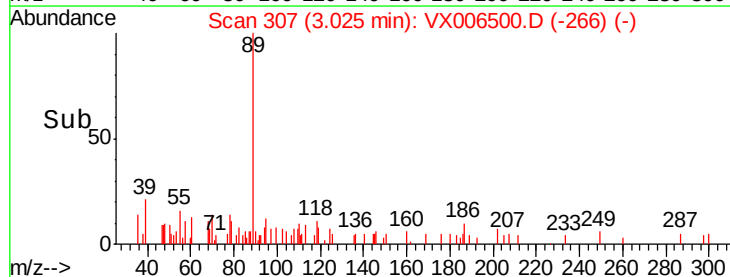
600

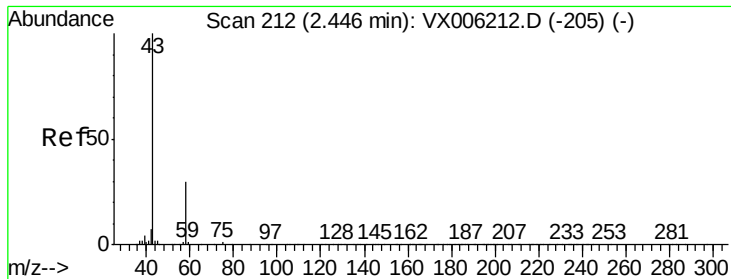
400

200

0

Time--> 2.95 3.00 3.05 3.10

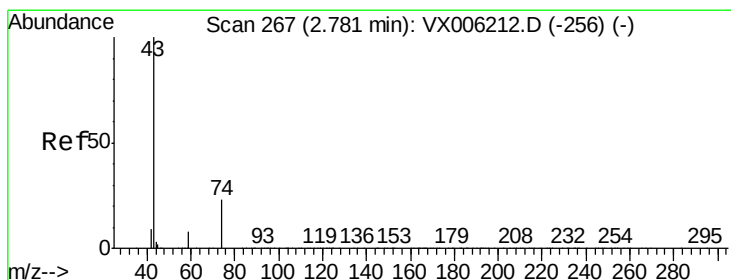
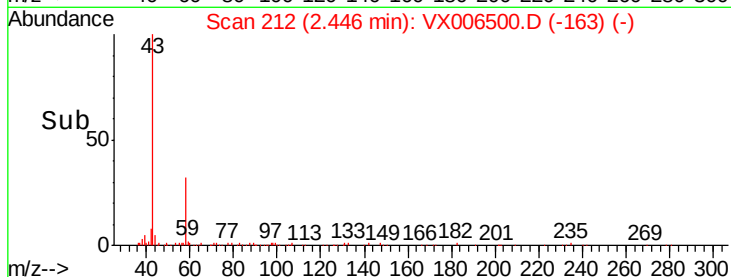
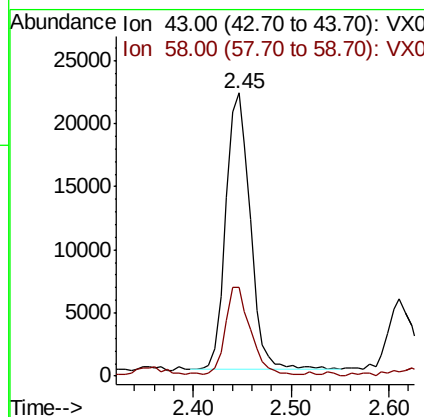
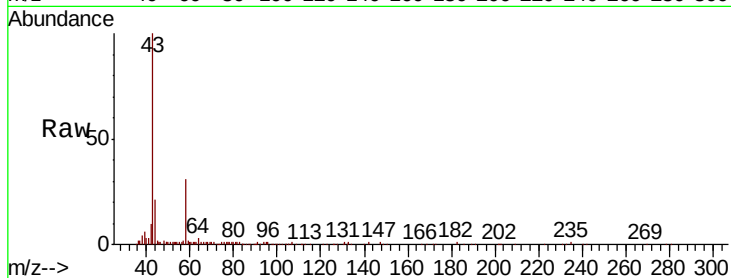




#16
Acetone
Concen: 12.570 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006500.D
Acq: 13 Dec 2018 17:31

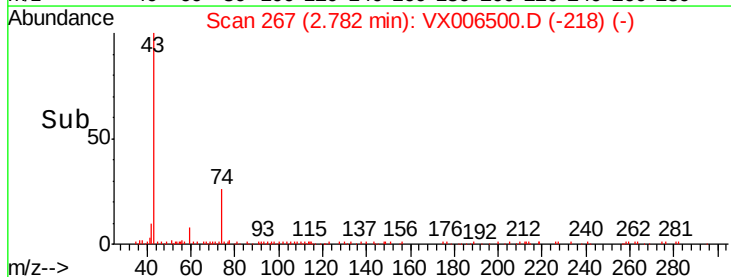
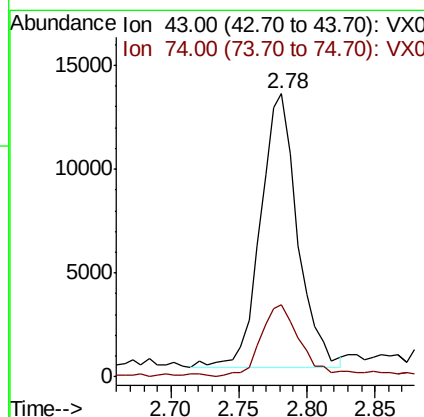
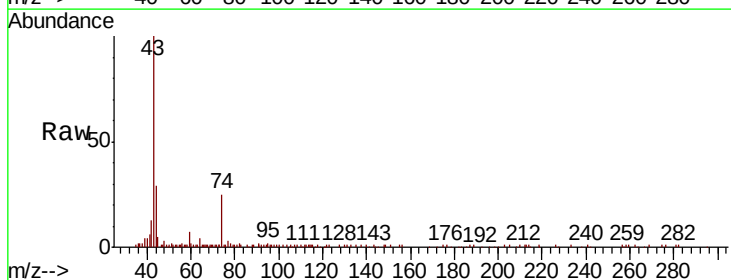
Instrument :
MSVOA_X
ClientSampleId :
FP-SOIL-1

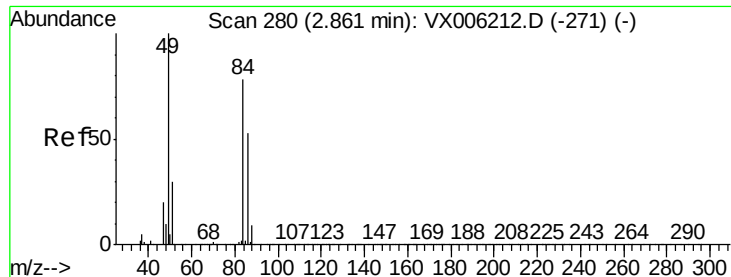
Tot Ion: 43 Resp: 38121
Ion Ratio Lower Upper
43 100
58 31.7 24.0 36.0



#18
Methyl Acetate
Concen: 2.485 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX006500.D
Acq: 13 Dec 2018 17:31

Tgt Ion: 43 Resp: 25205
Ion Ratio Lower Upper
43 100
74 28.7 17.9 26.9#

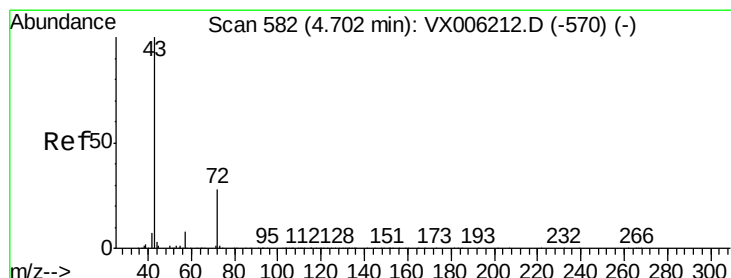
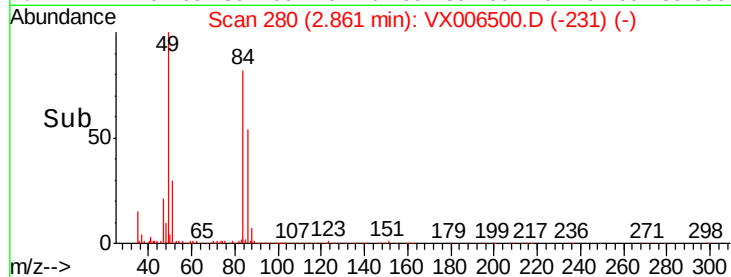
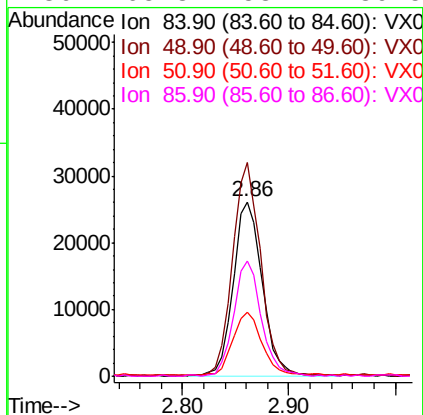
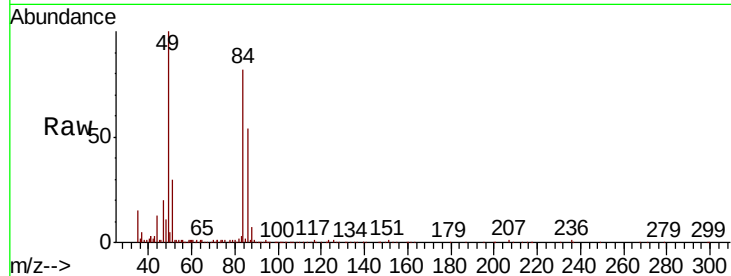




#20
Methylene Chloride
Concen: 7.799 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006500.D
Acq: 13 Dec 2018 17:31

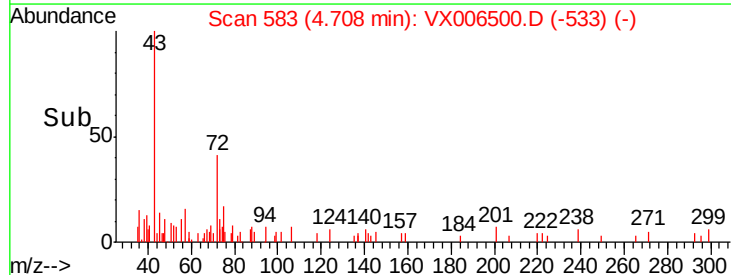
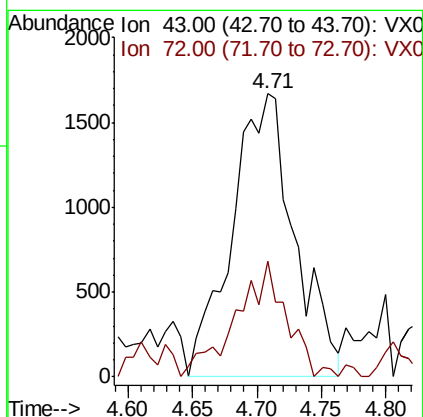
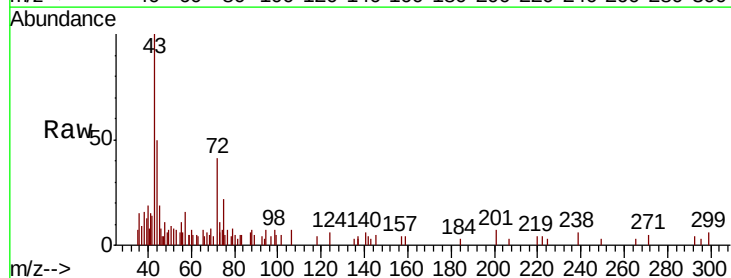
Instrument :
MSVOA_X
ClientSampleId :
FP-SOIL-1

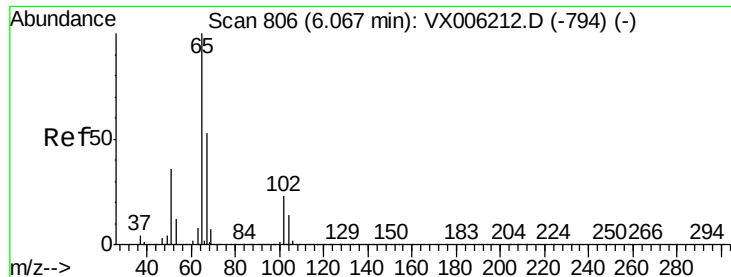
Tot Ion:	84	Resp:	50340
Ion	Ratio	Lower	Upper
84	100		
49	122.0	102.2	153.4
51	35.9	31.1	46.7
86	65.8	53.7	80.5



#25
2-Butanone
Concen: 1.302 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006500.D
Acq: 13 Dec 2018 17:31

Tgt Ion:	43	Resp:	5635
Ion	Ratio	Lower	Upper
43	100		
72	37.2	22.6	33.8#





#33

1,2-Dichloroethane-d4

Concen: 53.649 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampleId :

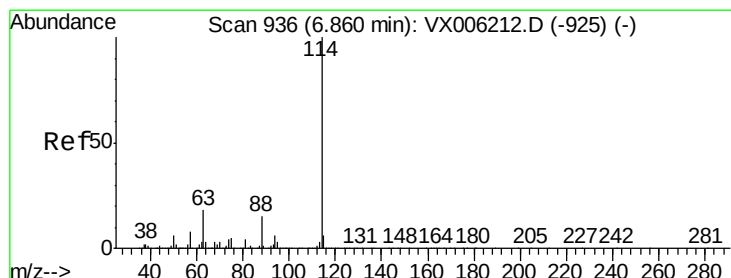
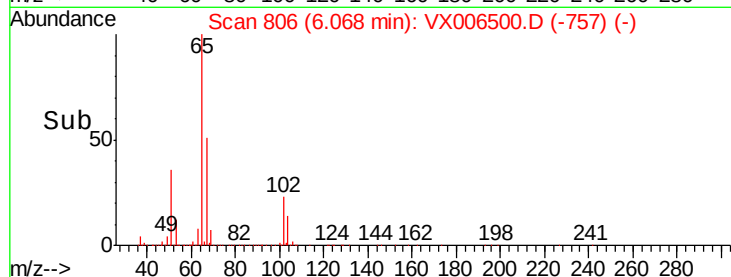
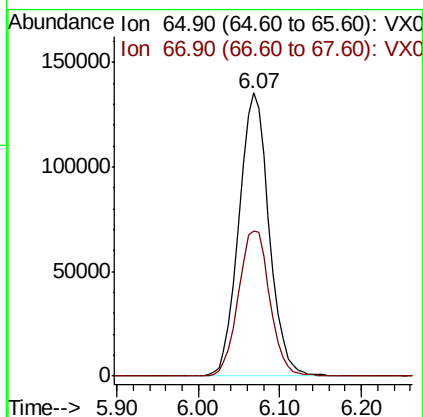
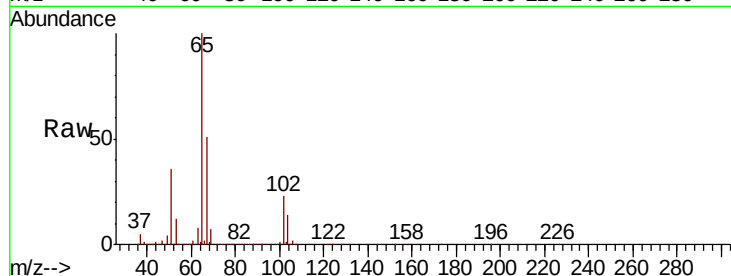
FP-SOIL-1

Tot Ion: 65 Resp: 346693

Ion Ratio Lower Upper

65 100

67 53.4 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

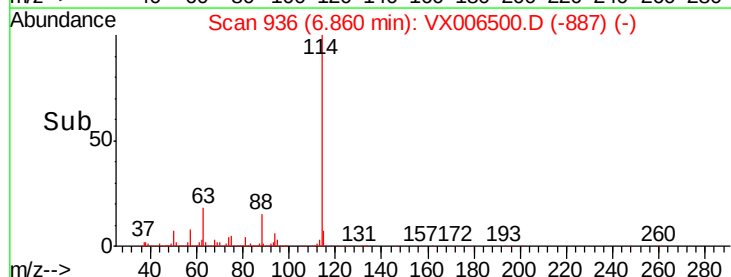
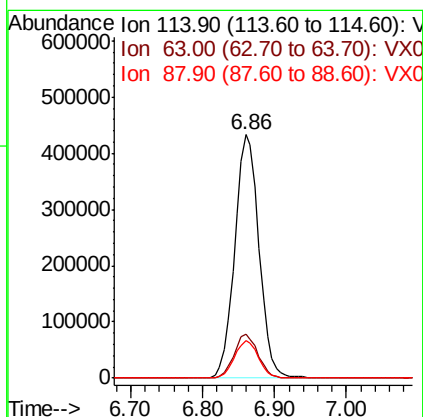
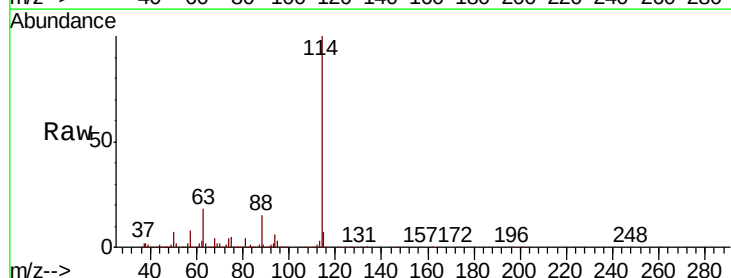
Tgt Ion: 114 Resp: 1012095

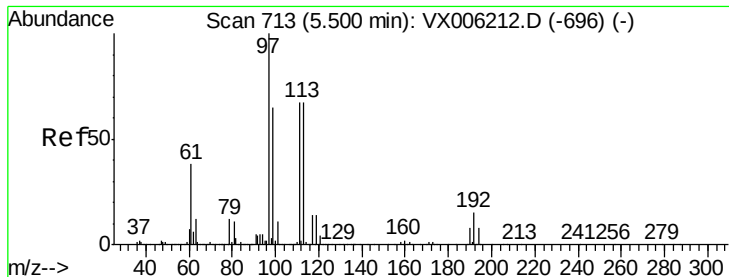
Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.6

88 15.3 0.0 29.0





#35

Dibromofluoromethane

Concen: 41.871 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampled :

FP-SOIL-1

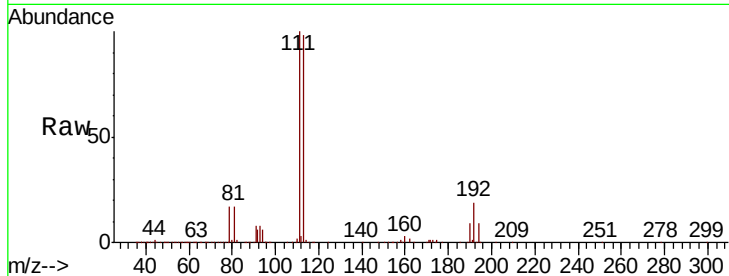
Tot Ion:113 Resp: 274377

Ion Ratio Lower Upper

113 100

111 103.0 81.1 121.7

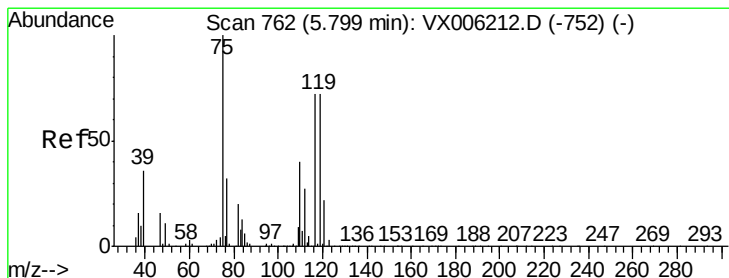
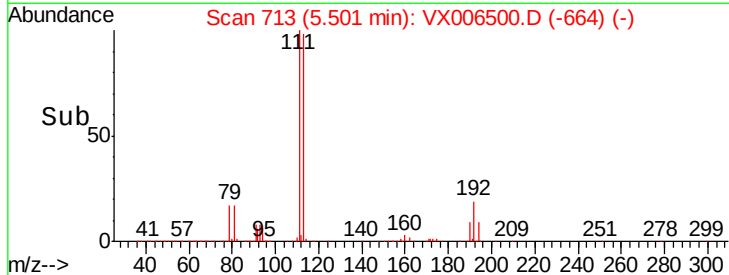
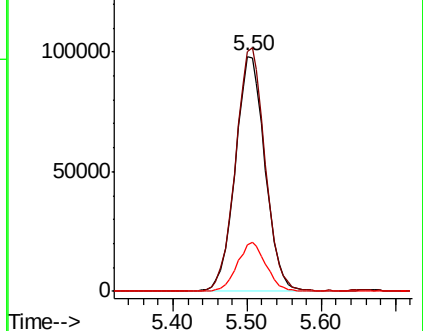
192 20.3 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.116 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

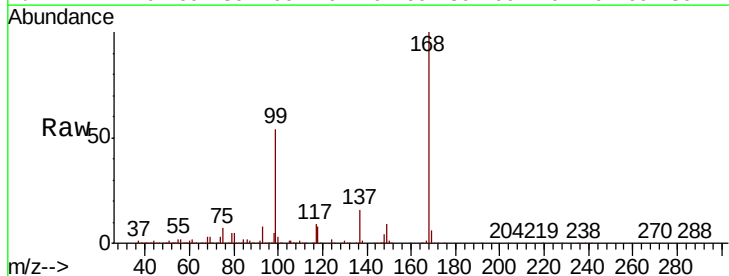
Tgt Ion: 75 Resp: 43604

Ion Ratio Lower Upper

75 100

110 11.2 20.4 61.3#

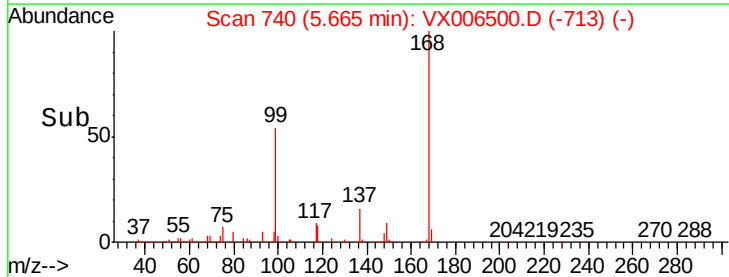
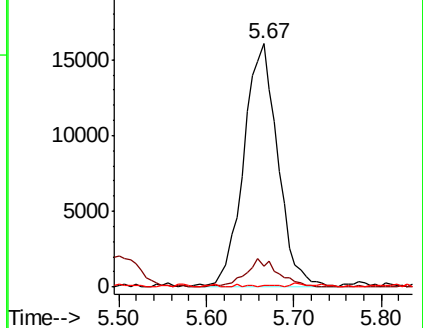
77 0.0 24.9 37.3#

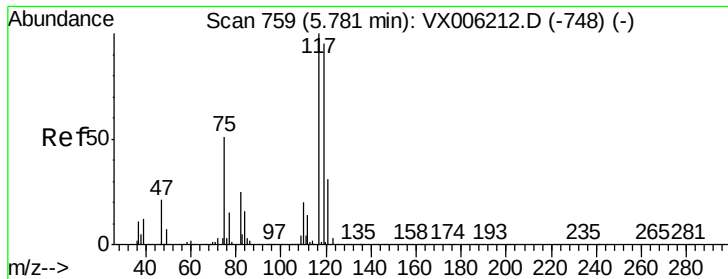


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.978 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampleId :

FP-SOIL-1

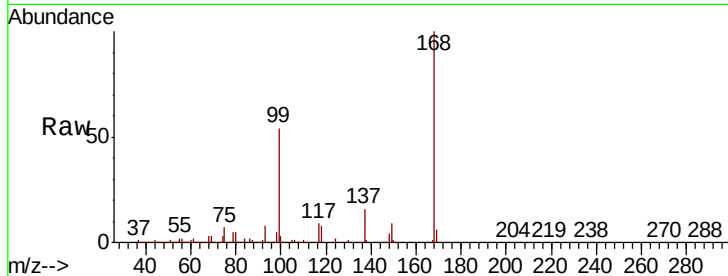
Tot Ion:117 Resp: 59935

Ion Ratio Lower Upper

117 100

119 4.7 75.8 113.8#

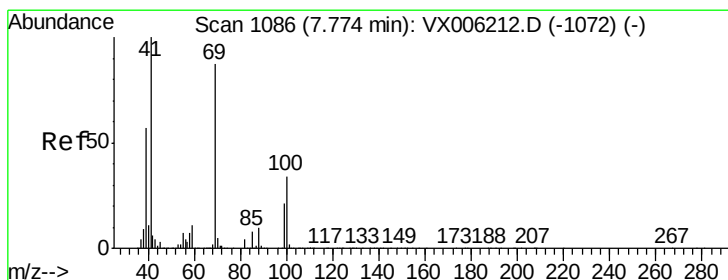
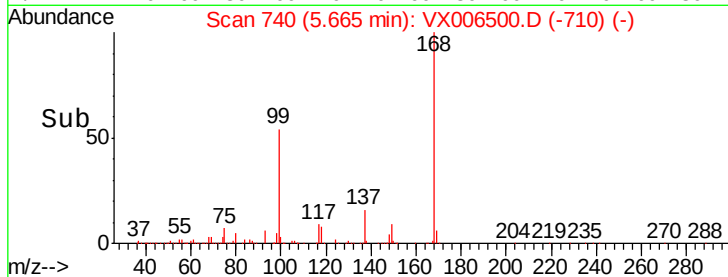
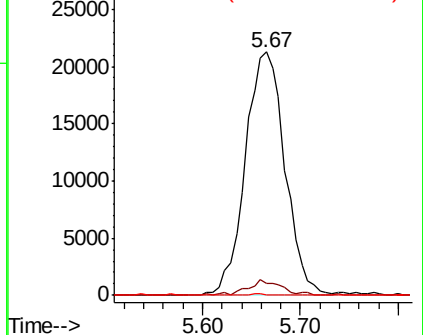
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 2.347 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

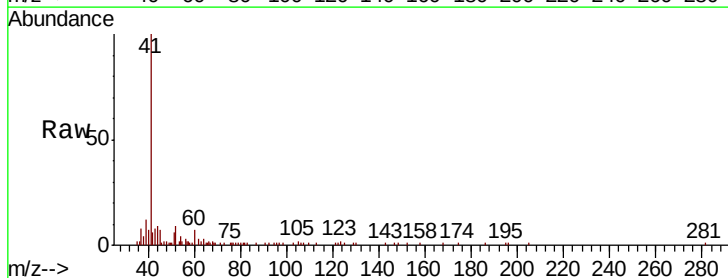
Tgt Ion: 41 Resp: 18169

Ion Ratio Lower Upper

41 100

69 0.8 70.3 105.5#

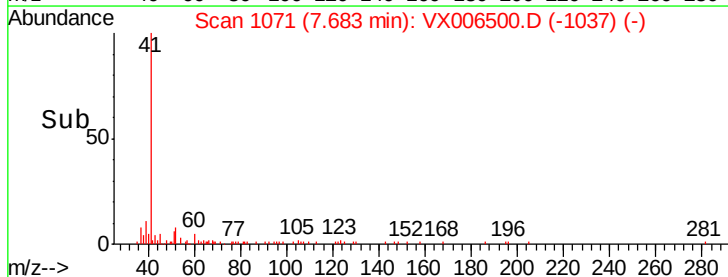
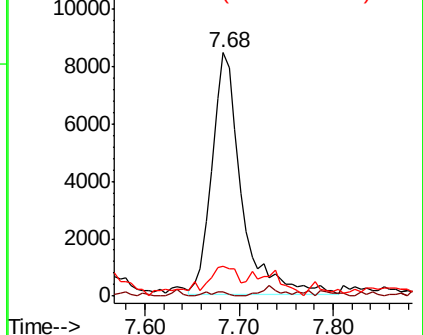
39 9.0 45.3 67.9#

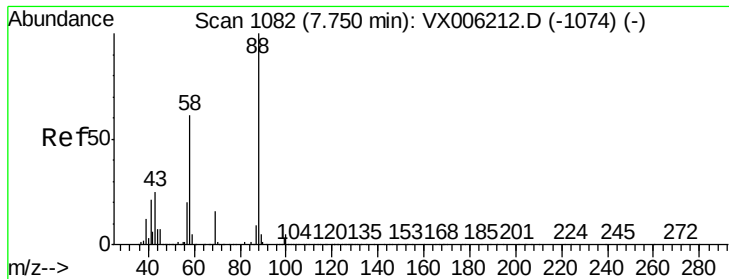


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.388 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampleId :

FP-SOIL-1

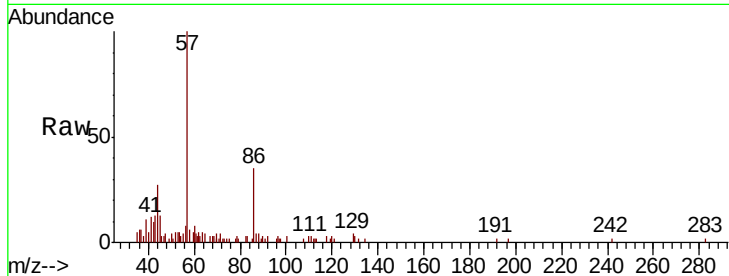
Tot Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 0.0 23.2 34.8#

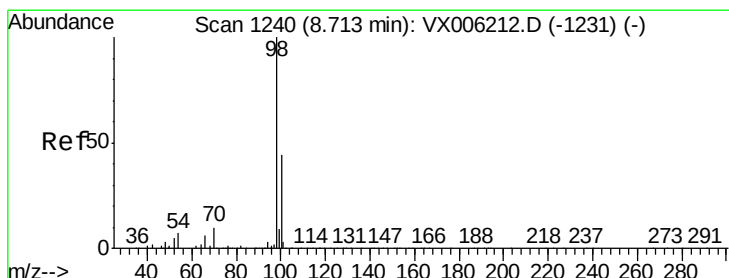
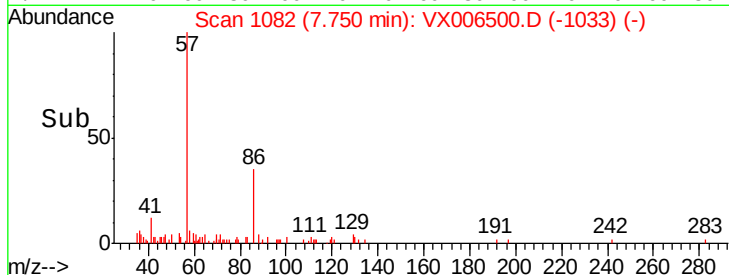
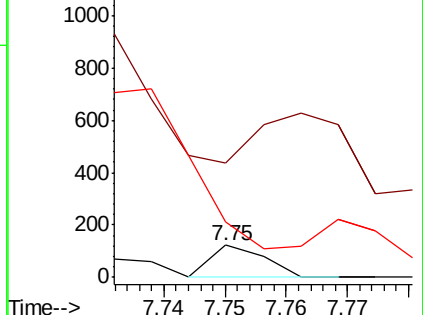
58 1758.1 51.4 77.0#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.269 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006500.D

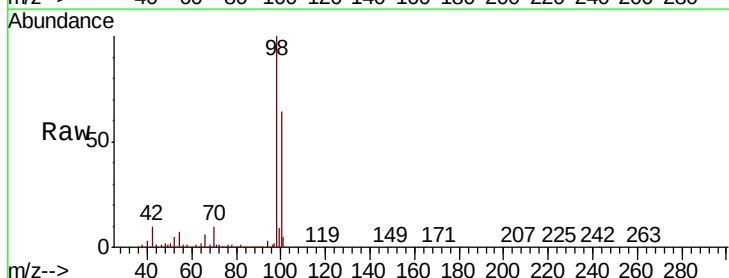
Acq: 13 Dec 2018 17:31

Tgt Ion: 98 Resp: 1198187

Ion Ratio Lower Upper

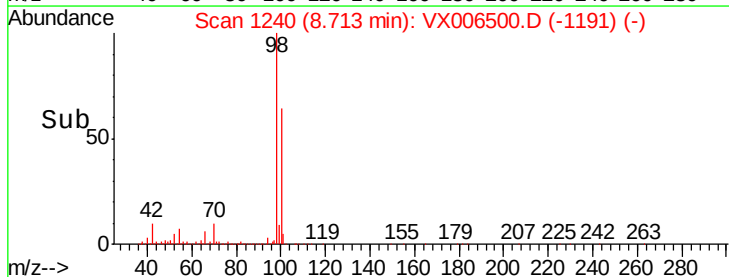
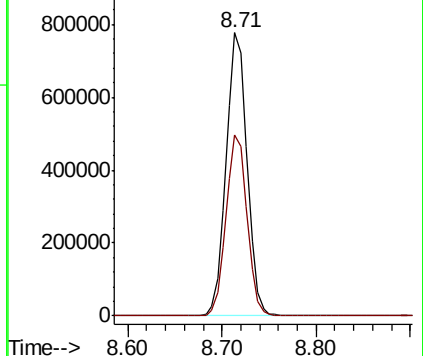
98 100

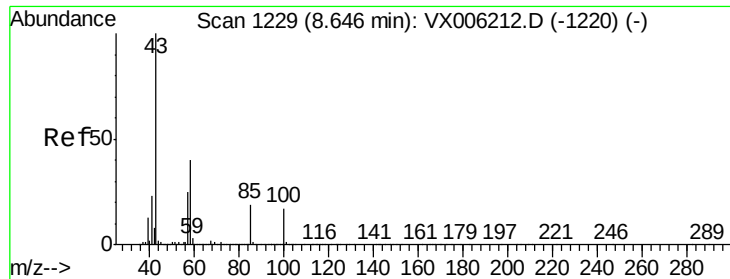
100 64.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

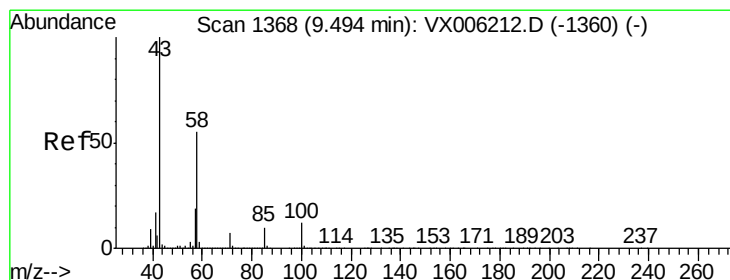
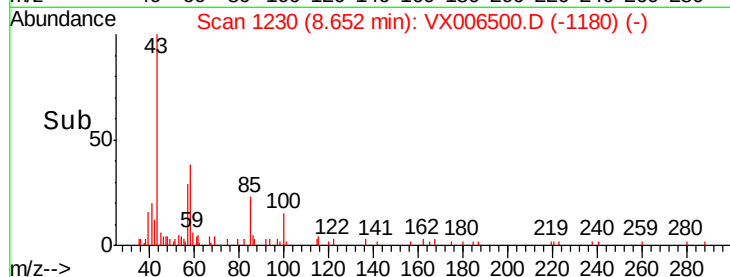
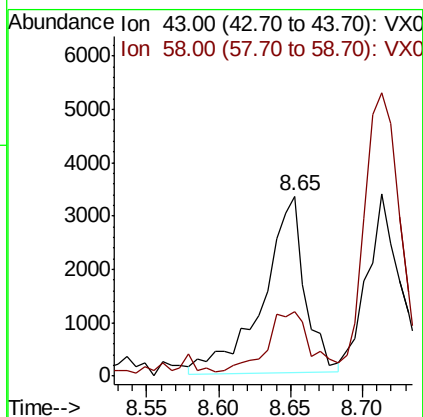
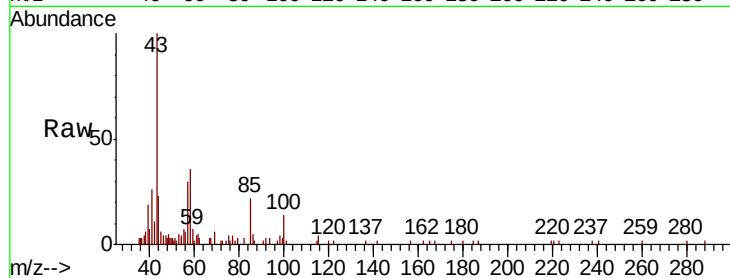




#51
 4-Methyl-2-Pentanone
 Concen: 0.720 ug/l
 RT: 8.65 min Scan# 1230
 Delta R.T. 0.01 min
 Lab File: VX006500.D
 Acq: 13 Dec 2018 17:31

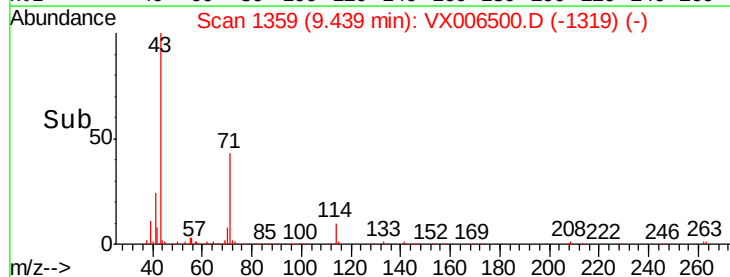
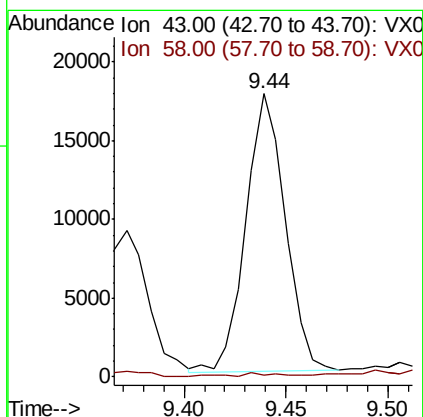
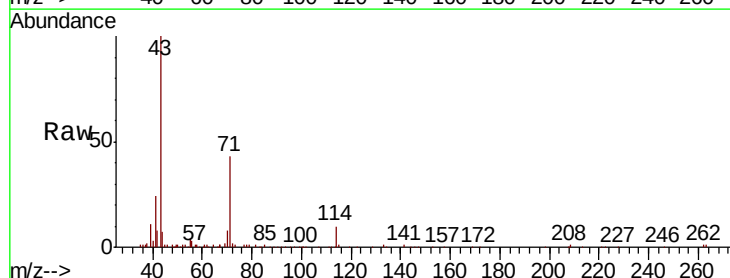
Instrument :
 MSVOA_X
 ClientSampleId :
 FP-SOIL-1

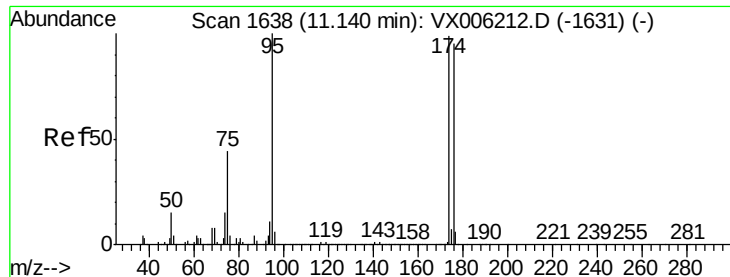
Tot Ion: 43 Resp: 6670
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.3 46.9



#59
 2-Hexanone
 Concen: 3.358 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. -0.05 min
 Lab File: VX006500.D
 Acq: 13 Dec 2018 17:31

Tgt Ion: 43 Resp: 23766
 Ion Ratio Lower Upper
 43 100
 58 1.6 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 48.676 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampleId :

FP-SOIL-1

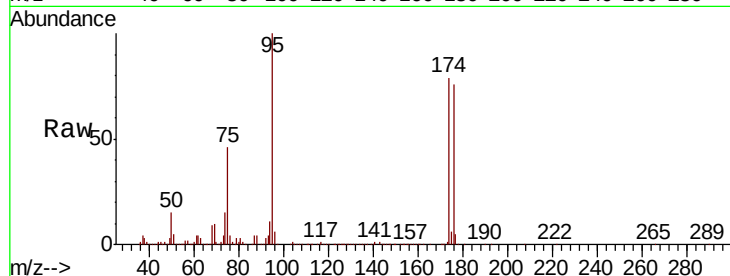
Tot Ion: 95 Resp: 437210

Ion Ratio Lower Upper

95 100

174 84.6 0.0 187.0

176 82.9 0.0 181.8

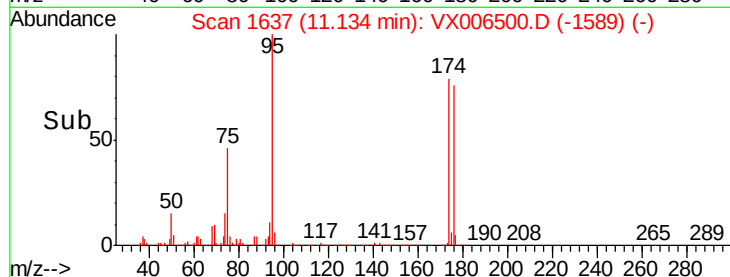


Abundance Ion 94.90 (94.60 to 95.60): VX006212.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006212.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006212.D (-1631) (-)

Time-->



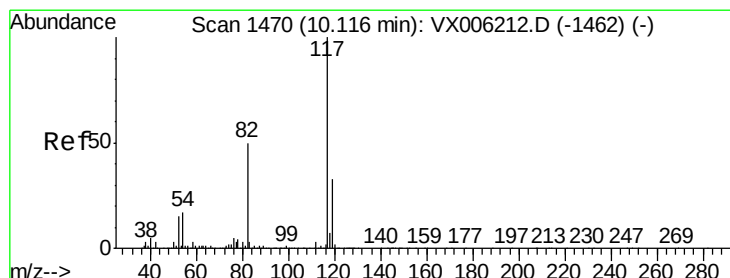
Abundance

Ion 94.90 (94.60 to 95.60): VX006500.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX006500.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX006500.D (-1589) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

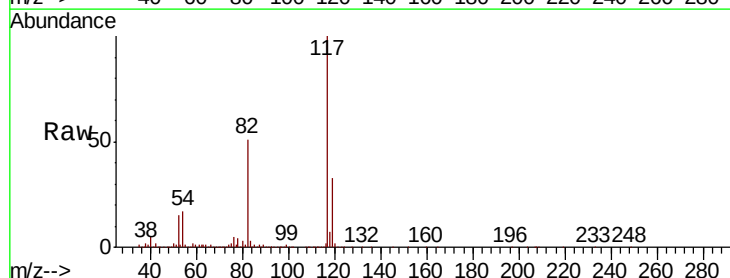
Tgt Ion: 117 Resp: 921848

Ion Ratio Lower Upper

117 100

82 51.3 39.6 59.4

119 33.3 26.3 39.5

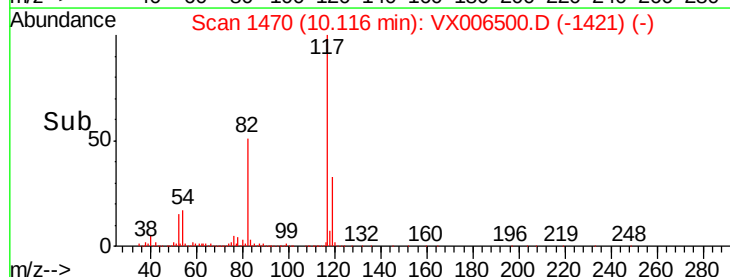


Abundance Ion 116.90 (116.60 to 117.60): VX006212.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006212.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006212.D (-1462) (-)

Time-->



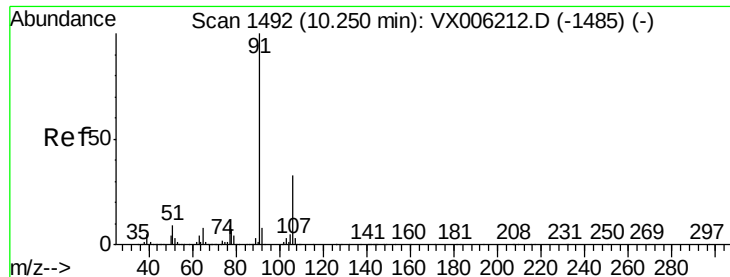
Abundance

Ion 116.90 (116.60 to 117.60): VX006500.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX006500.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX006500.D (-1421) (-)

Time-->



#67

Ethyl Benzene

Concen: 0.781 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampled :

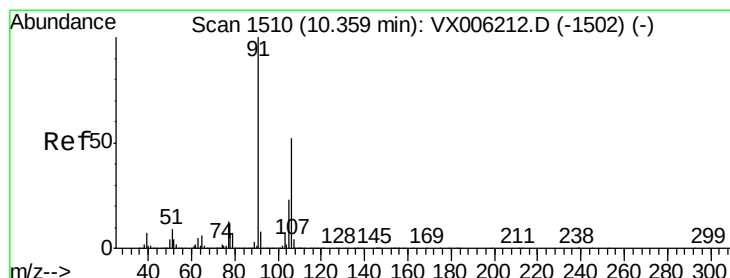
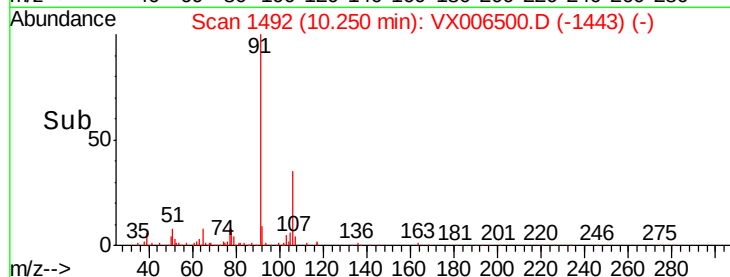
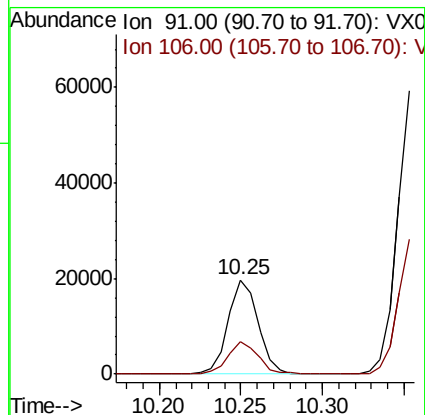
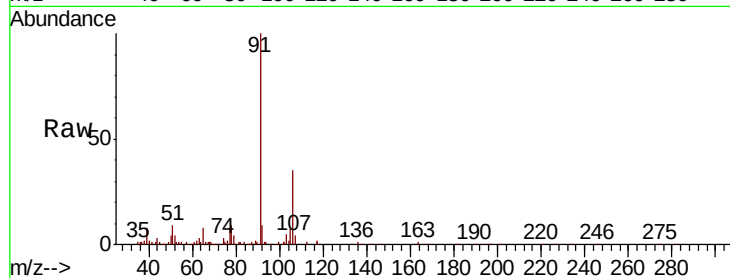
FP-SOIL-1

Tot Ion: 91 Resp: 25429

Ion Ratio Lower Upper

91 100

106 35.2 26.5 39.7



#68

m/p-Xylenes

Concen: 3.183 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX006500.D

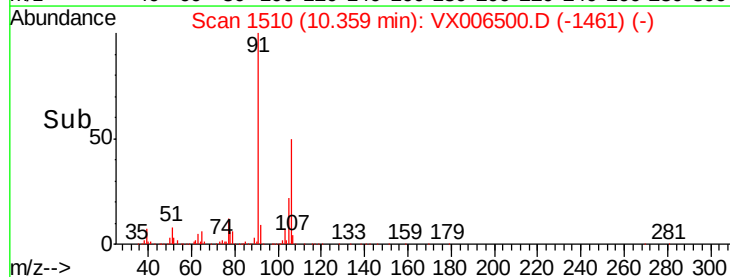
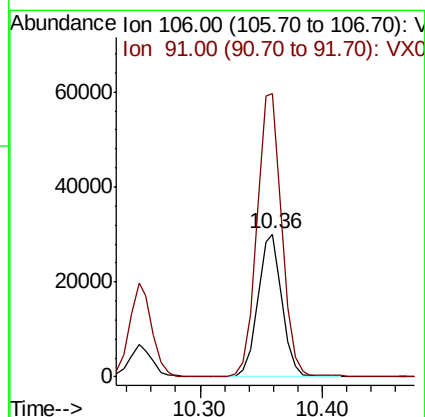
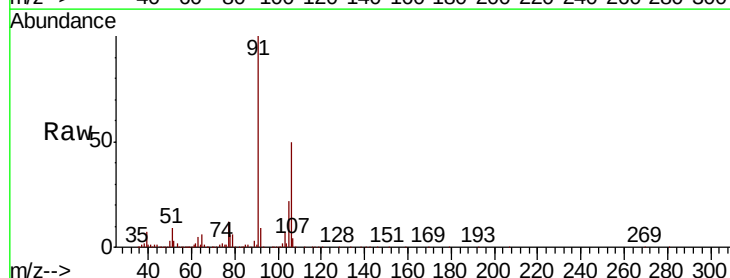
Acq: 13 Dec 2018 17:31

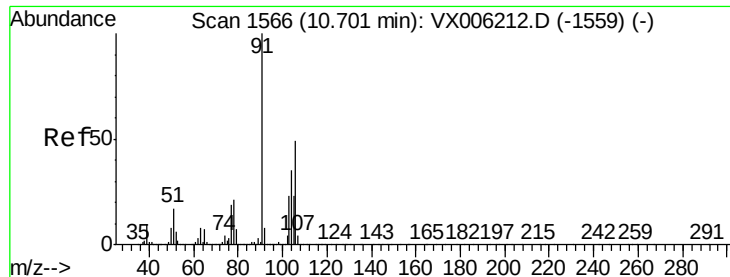
Tgt Ion: 106 Resp: 41504

Ion Ratio Lower Upper

106 100

91 203.5 155.2 232.8





#69

o-Xylene

Concen: 1.408 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampleId :

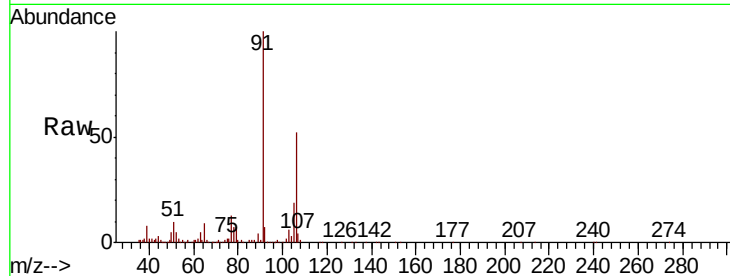
FP-SOIL-1

Tot Ion:106 Resp: 18135

Ion Ratio Lower Upper

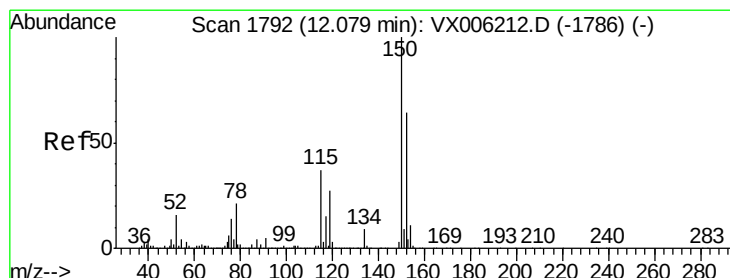
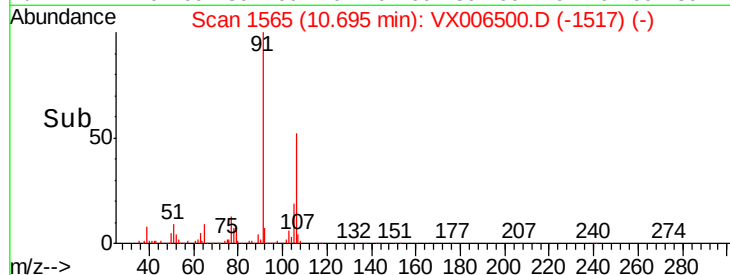
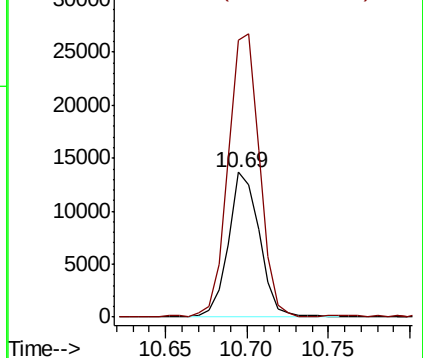
106 100

91 197.7 101.8 305.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

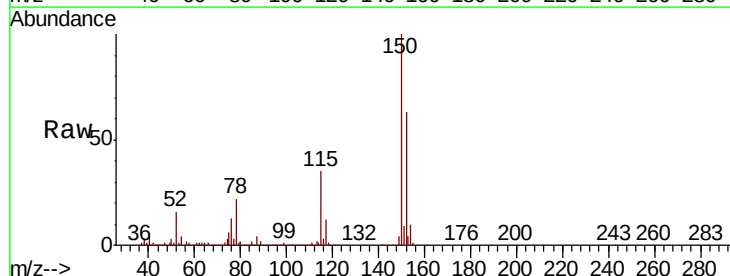
Tgt Ion:152 Resp: 428776

Ion Ratio Lower Upper

152 100

115 58.0 39.0 116.9

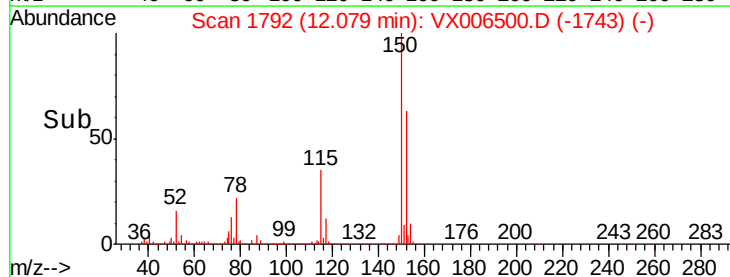
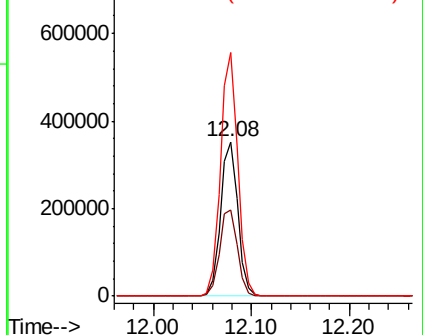
150 157.7 0.0 345.8

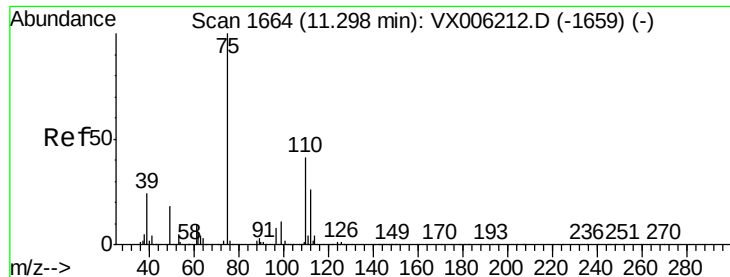


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

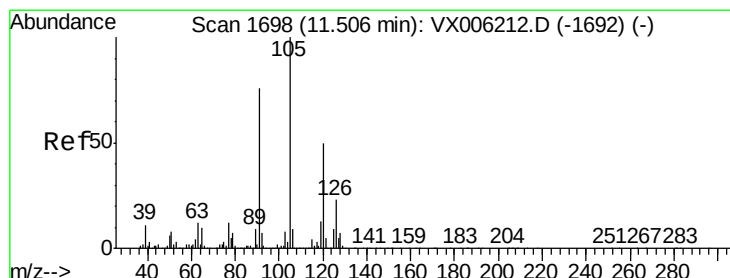
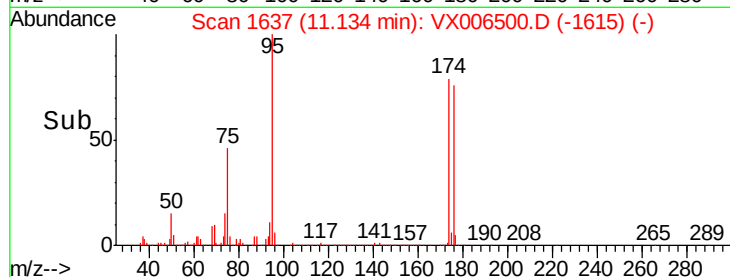
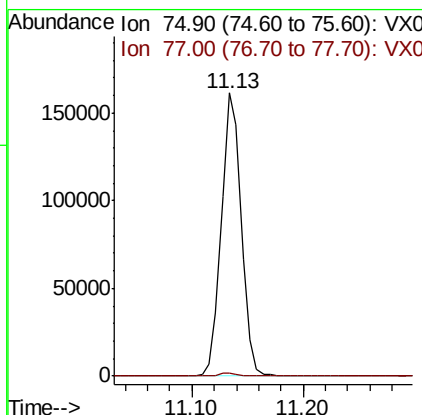
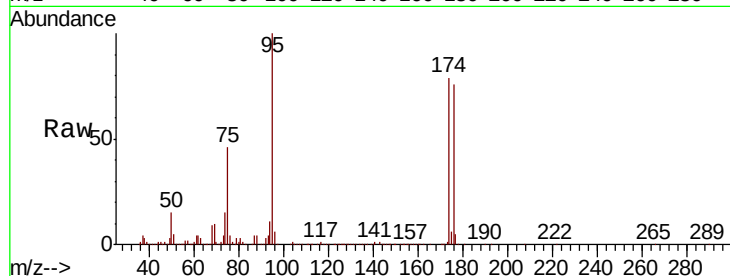




#76
 1,2,3-Trichloropropane
 Concen: 24.214 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006500.D
 Acq: 13 Dec 2018 17:31

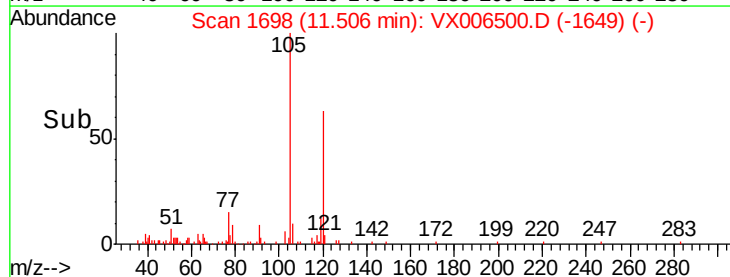
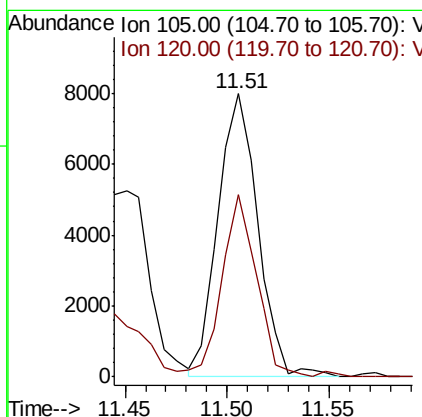
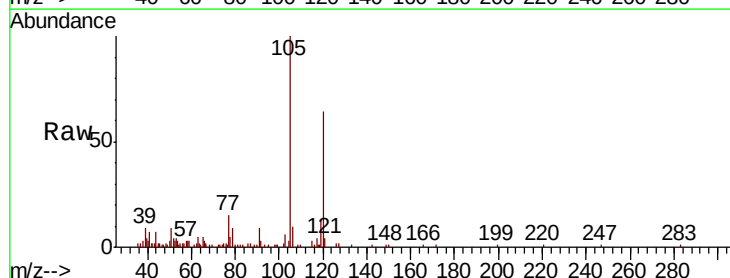
Instrument :
 MSVOA_X
 ClientSampleId :
 FP-SOIL-1

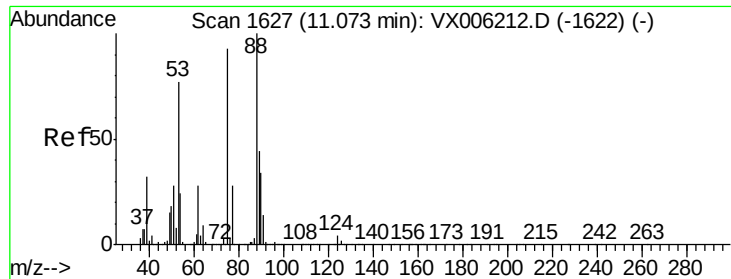
Tot Ion: 75 Resp: 200394
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.9 59.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.441 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006500.D
 Acq: 13 Dec 2018 17:31

Tgt Ion:105 Resp: 10855
 Ion Ratio Lower Upper
 105 100
 120 55.8 25.4 76.0





#81

trans-1,4-Dichloro-2-butene

Concen: 56.823 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006500.D

Acq: 13 Dec 2018 17:31

Instrument :

MSVOA_X

ClientSampleId :

FP-SOIL-1

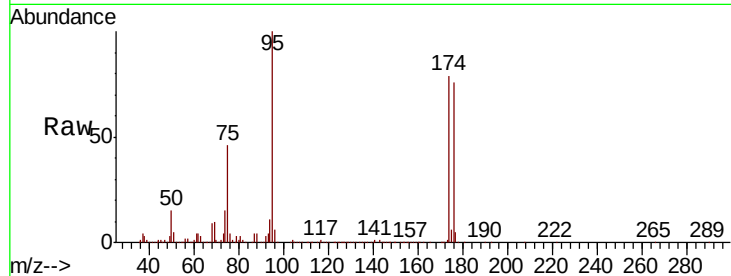
Tot Ion: 75 Resp: 200394

Ion Ratio Lower Upper

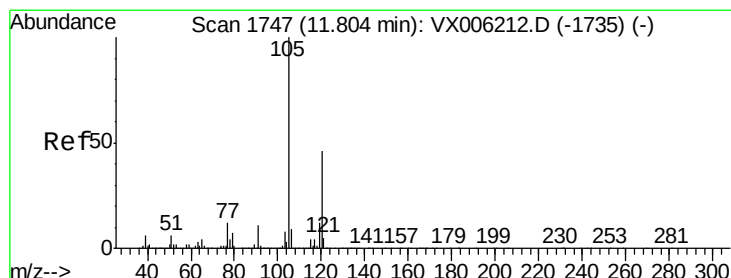
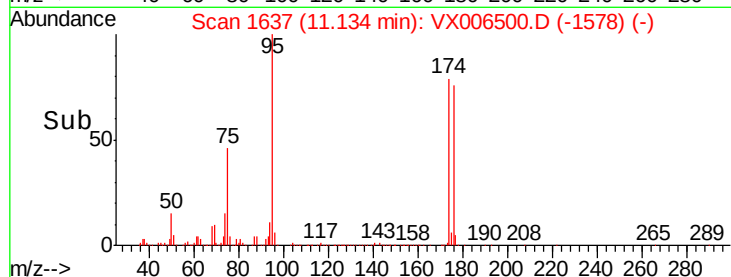
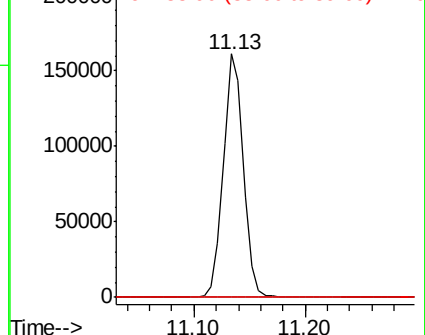
75 100

53 0.1 64.4 96.6#

89 0.0 44.2 66.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 1.026 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX006500.D

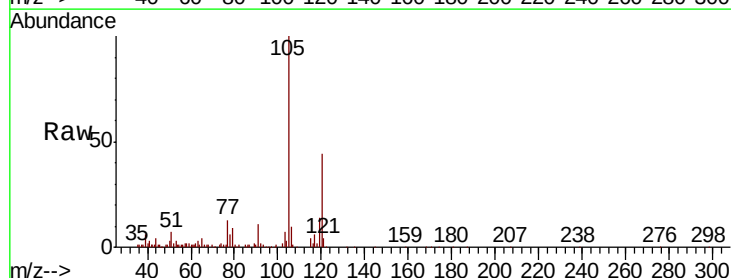
Acq: 13 Dec 2018 17:31

Tgt Ion:105 Resp: 26112

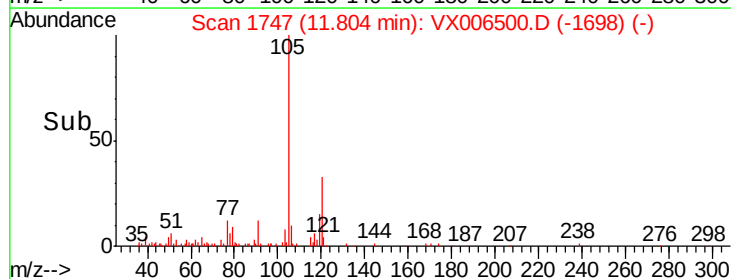
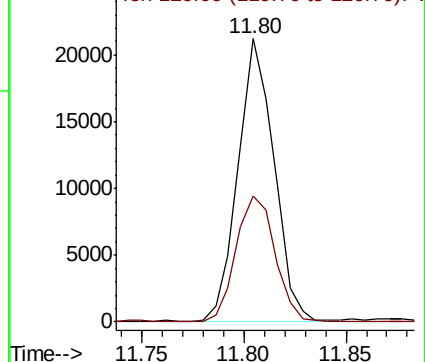
Ion Ratio Lower Upper

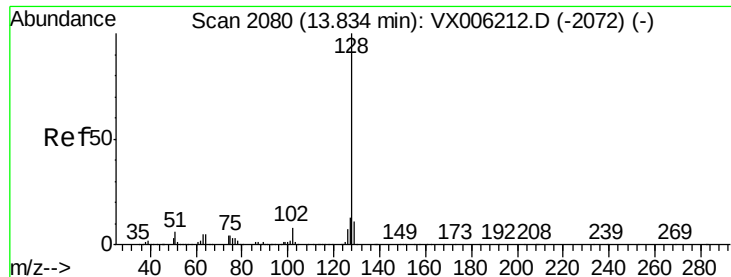
105 100

120 47.8 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#95
Naphthalene
Concen: 2.322 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006500.D
Acq: 13 Dec 2018 17:31

Instrument :
MSVOA_X
ClientSampleId :
FP-SOIL-1

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	11.5	8.9	13.3

