

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121218\
 Data File : VX006476.D
 Acq On : 13 Dec 2018 05:59
 Operator : JC/MD
 Sample : J6354-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL

Quant Time: Dec 13 07:46:26 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	671900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1052880	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	973735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	470562	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	354318	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
35) Dibromofluoromethane	5.51	113	317626	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
50) Toluene-d8	8.71	98	1243924	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	11.13	95	461291	49.37	ug/l	0.00
Spiked Amount			Recovery	=	98.74%	

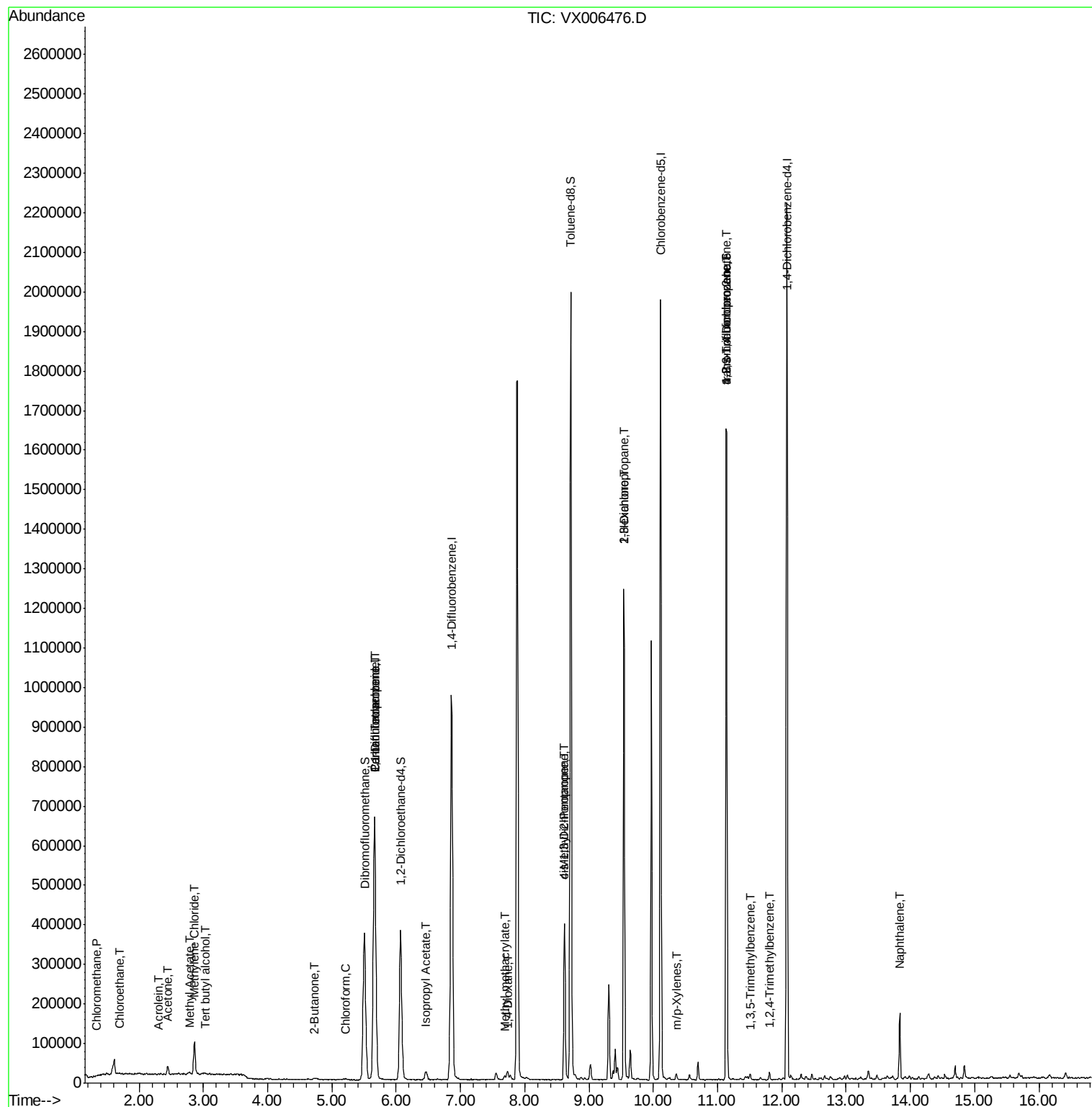
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1501	0.222	ug/l #	64
6) Chloroethane	1.70	64	1084	0.243	ug/l #	78
11) Tert butyl alcohol	3.03	59	1804	0.962	ug/l #	11
13) Acrolein	2.29	56	234	0.228	ug/l #	77
16) Acetone	2.45	43	22886	7.110	ug/l #	83
18) Methyl Acetate	2.78	43	7697	0.715	ug/l #	77
20) Methylene Chloride	2.86	84	39006	5.694	ug/l	89
25) 2-Butanone	4.71	43	2504	0.545	ug/l #	77
30) Chloroform	5.21	83	2568	0.228	ug/l	85
36) 1,1-Dichloropropene	5.67	75	43025	4.853	ug/l #	50
38) Carbon Tetrachloride	5.67	117	63965	6.132	ug/l #	16
43) Isopropyl Acetate	6.46	43	28060	1.695	ug/l	95
48) Methyl methacrylate	7.68	41	12428	1.543	ug/l #	12
49) 1,4-Dioxane	7.74	88	160	0.806	ug/l #	27
51) 4-Methyl-2-Pentanone	8.62	43	125902	13.064	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	68079	5.939	ug/l #	58
57) 1,3-Dichloropropane	9.55	76	11611	1.035	ug/l #	47
59) 2-Hexanone	9.54	43	137842	18.721	ug/l #	50
68) m/p-Xylenes	10.35	106	3544	0.257	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	207501	22.846	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.51	105	6412	0.237	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.13	75	207501	53.613	ug/l #	15
84) 1,2,4-Trimethylbenzene	11.80	105	9596	0.344	ug/l	98
95) Naphthalene	13.83	128	103820	2.873	ug/l	99

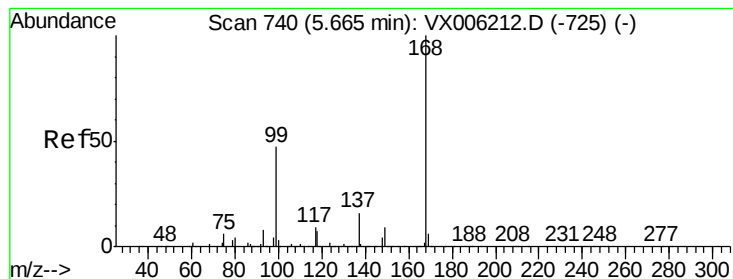
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampled :

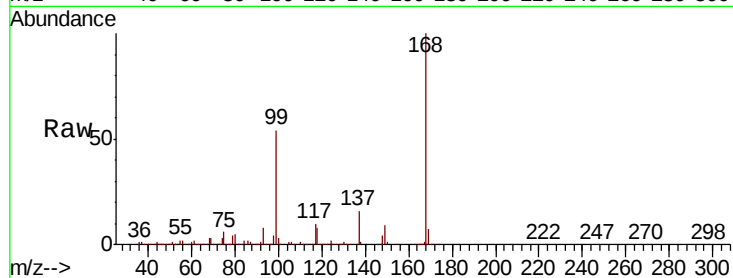
SOIL

Tot Ion:168 Resp: 671900

Ion Ratio Lower Upper

168 100

99 53.6 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

100000

50000

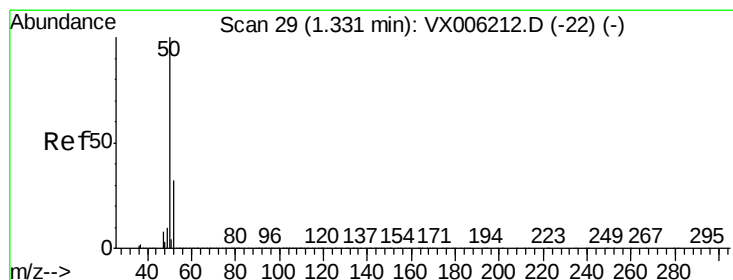
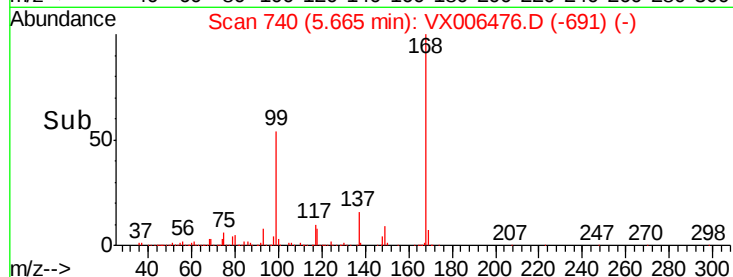
0

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: 0.222 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX006476.D

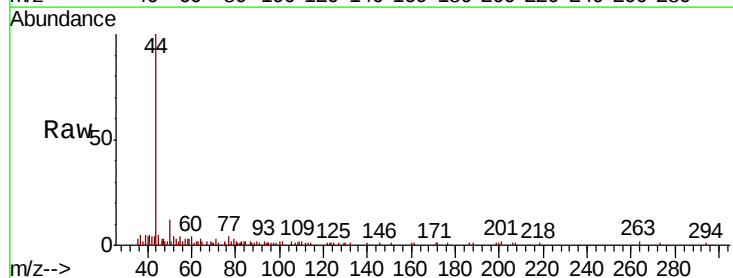
Acq: 13 Dec 2018 05:59

Tgt Ion: 50 Resp: 1501

Ion Ratio Lower Upper

50 100

52 11.8 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

600

400

200

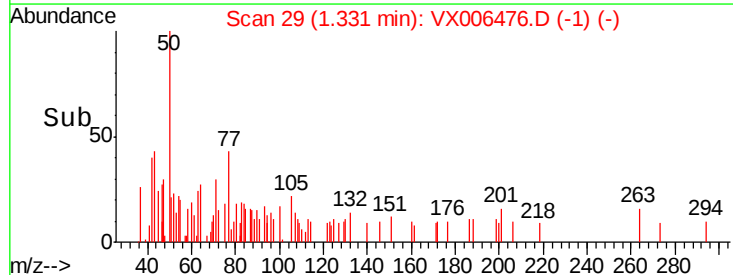
0

1.25

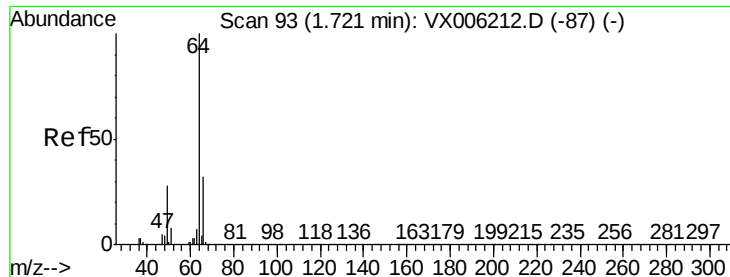
1.30

1.35

1.40



Time-->



#6

Chloroethane

Concen: 0.243 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

Client Sampled :

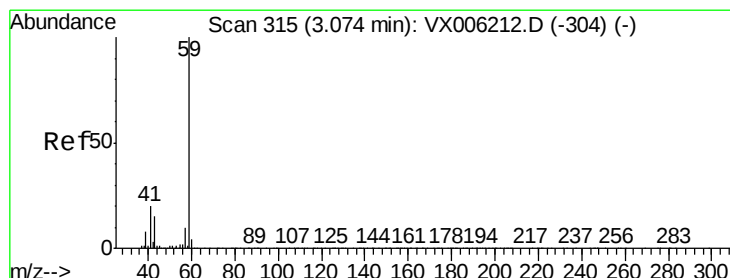
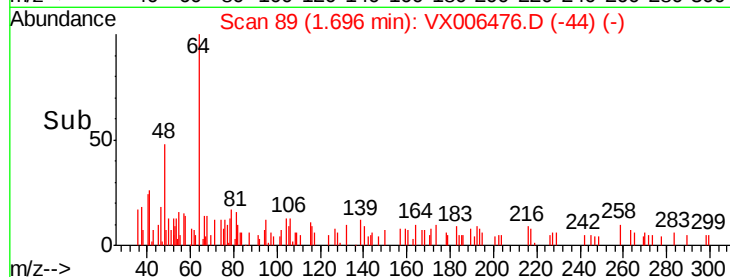
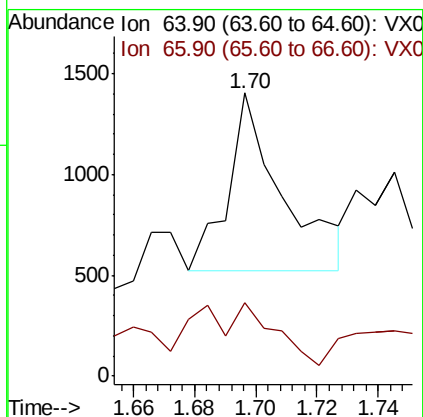
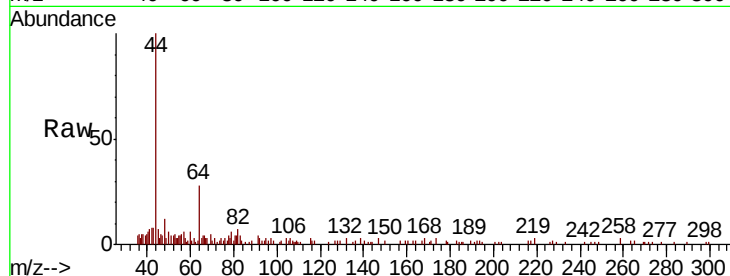
SOIL

Tot Ion: 64 Resp: 1084

Ion Ratio Lower Upper

64 100

66 19.9 25.9 38.9#



#11

Tert butyl alcohol

Concen: 0.962 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.04 min

Lab File: VX006476.D

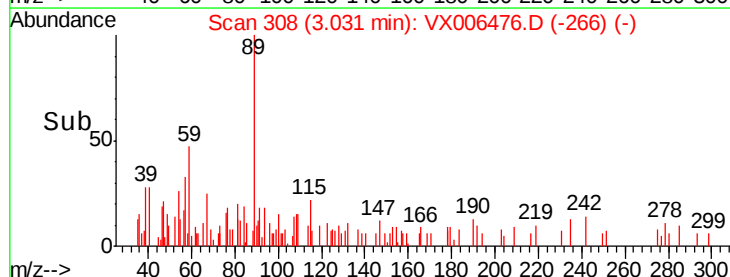
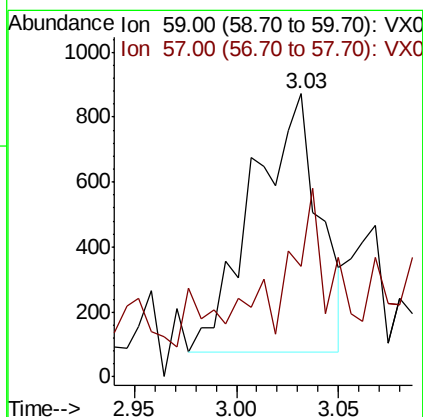
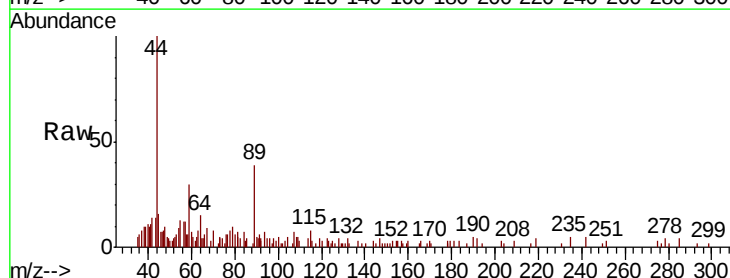
Acq: 13 Dec 2018 05:59

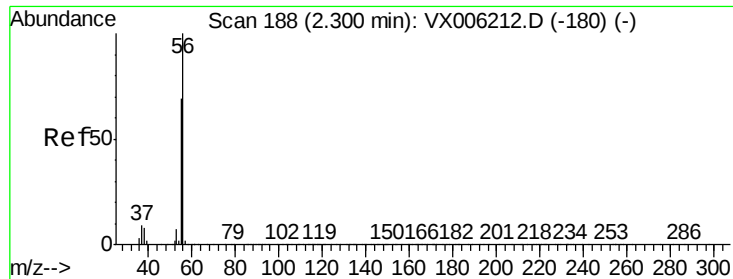
Tgt Ion: 59 Resp: 1804

Ion Ratio Lower Upper

59 100

57 43.3 8.2 12.2#

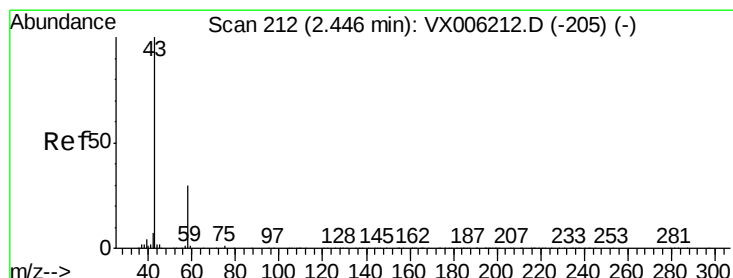
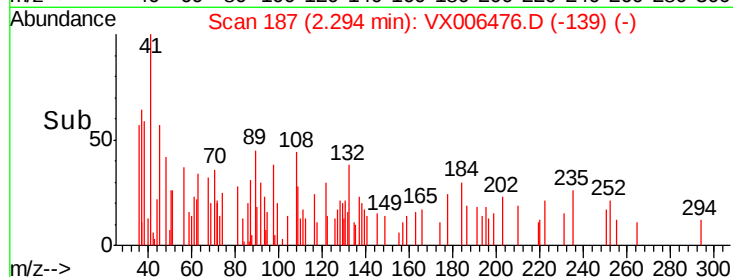
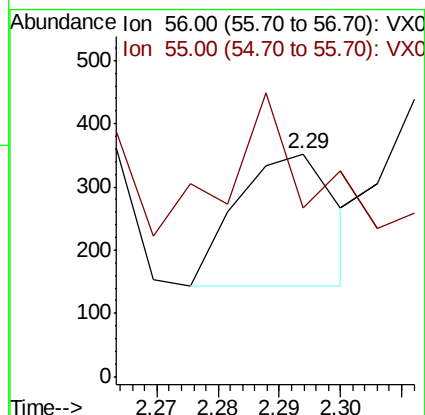
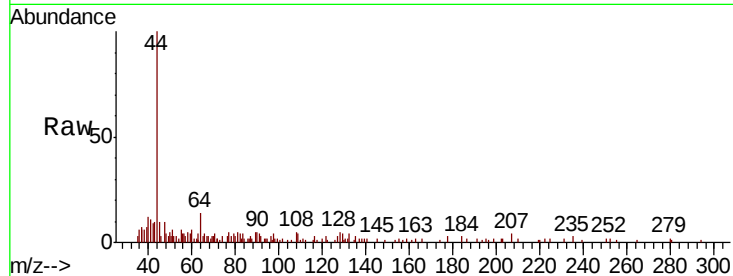




#13
Acrolein
Concen: 0.228 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.01 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

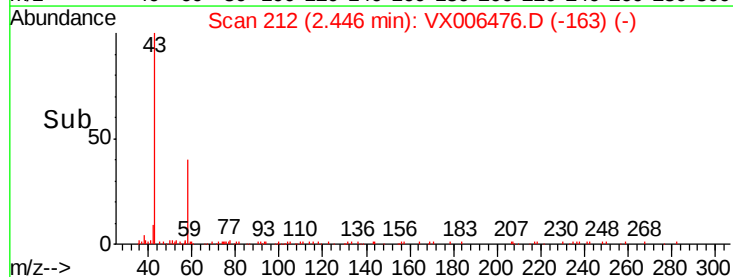
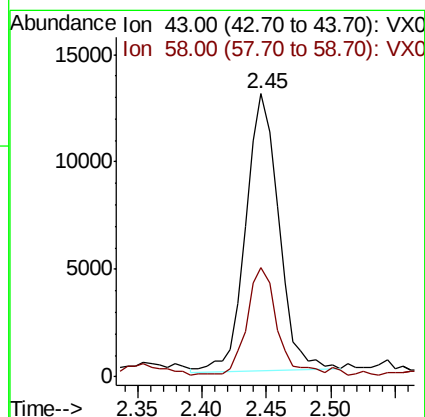
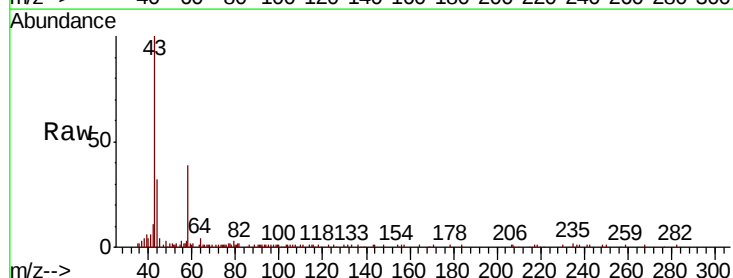
Instrument :
MSVOA_X
ClientSampleId :
SOIL

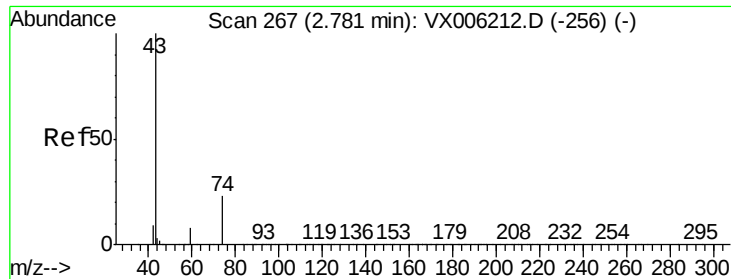
Tot Ion: 56 Resp: 234
Ion Ratio Lower Upper
56 100
55 91.5 57.8 86.6#



#16
Acetone
Concen: 7.110 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

Tgt Ion: 43 Resp: 22886
Ion Ratio Lower Upper
43 100
58 39.2 24.0 36.0#

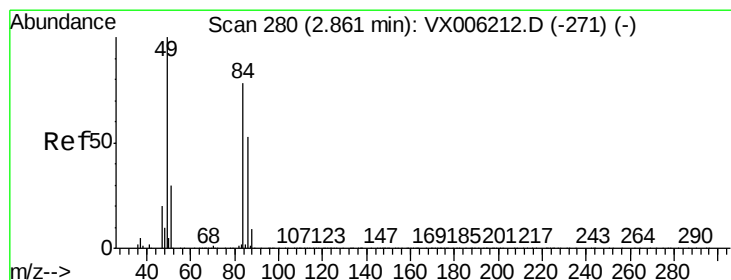
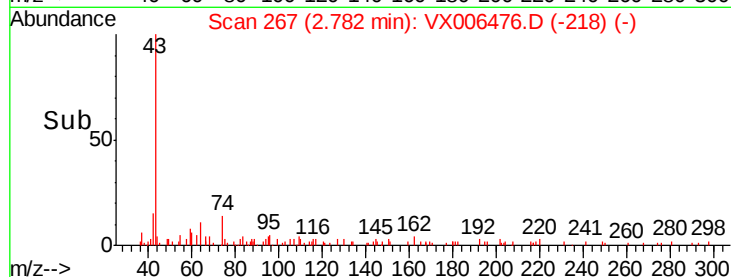
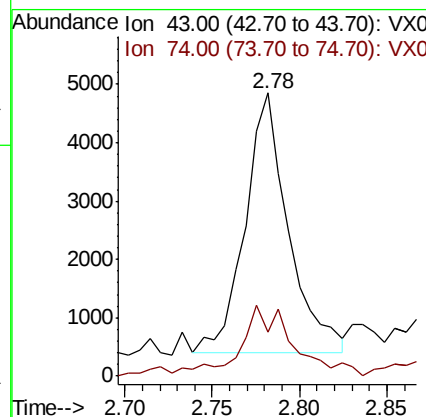
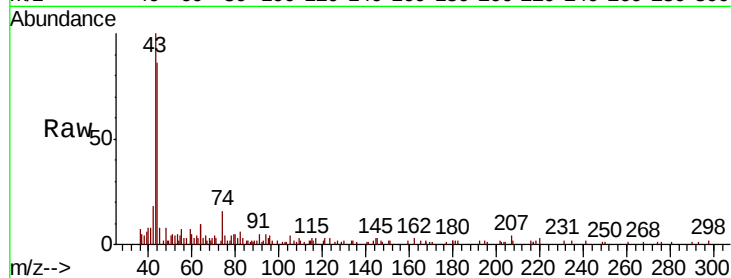




#18
Methvl Acetate
Concen: 0.715 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

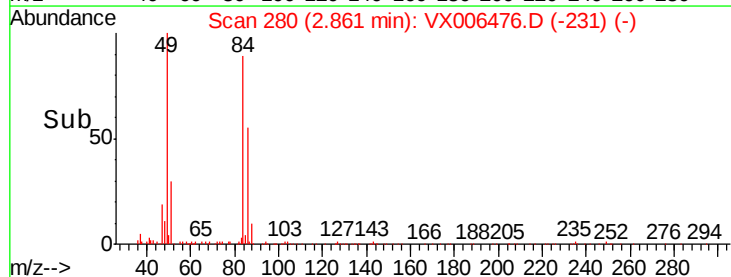
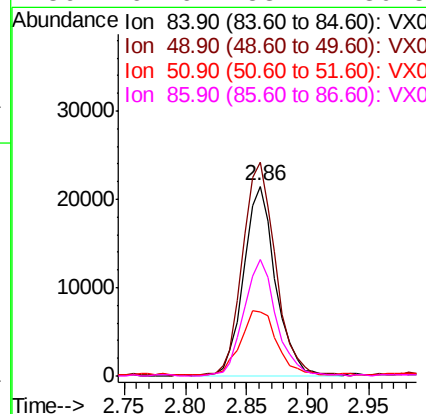
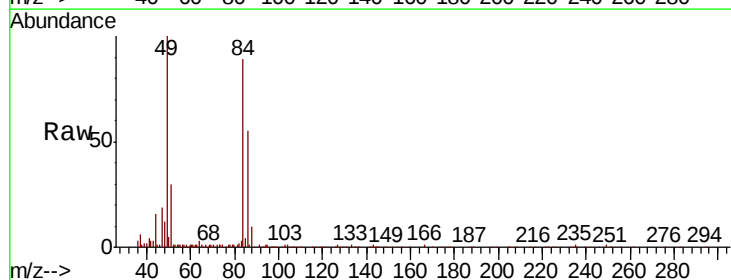
Instrument :
MSVOA_X
ClientSampled :
SOIL

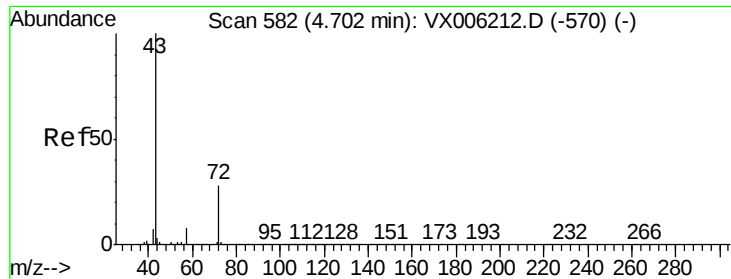
Tot Ion: 43 Resp: 7697
Ion Ratio Lower Upper
43 100
74 33.6 17.9 26.9#



#20
Methylene Chloride
Concen: 5.694 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

Tgt Ion: 84 Resp: 39006
Ion Ratio Lower Upper
84 100
49 112.2 102.2 153.4
51 32.9 31.1 46.7
86 61.6 53.7 80.5





#25

2-Butanone

Concen: 0.545 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampled :

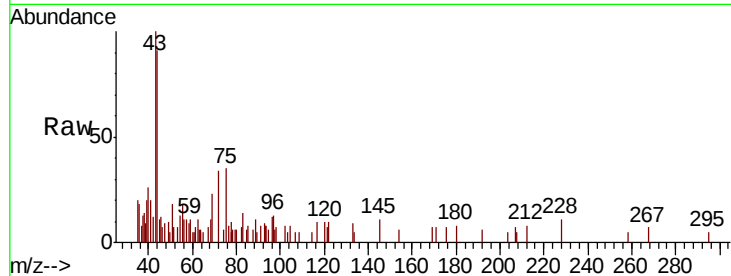
SOIL

Tot Ion: 43 Resp: 2504

Ion Ratio Lower Upper

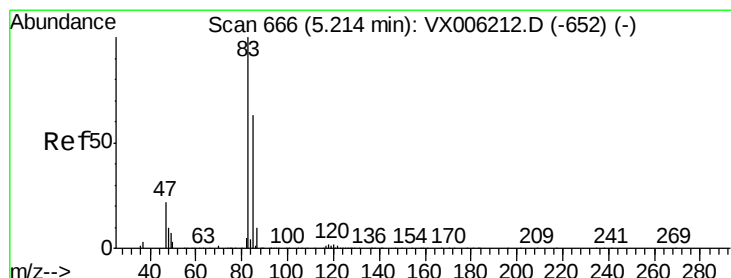
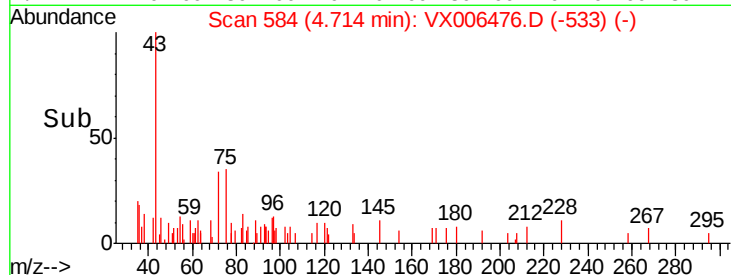
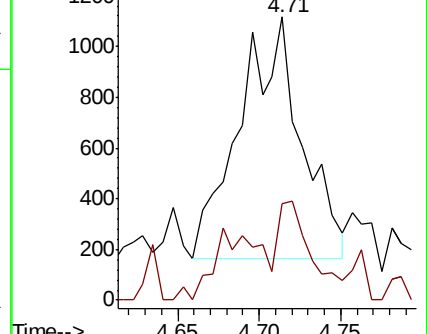
43 100

72 40.1 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#30

Chloroform

Concen: 0.228 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX006476.D

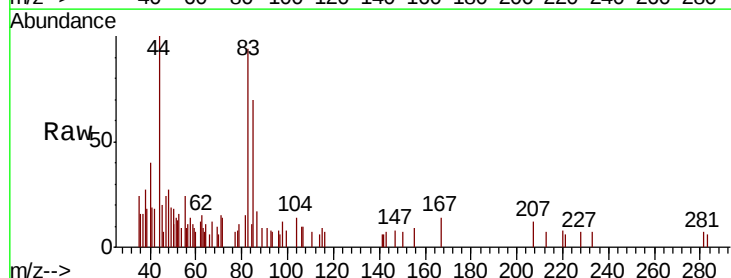
Acq: 13 Dec 2018 05:59

Tgt Ion: 83 Resp: 2568

Ion Ratio Lower Upper

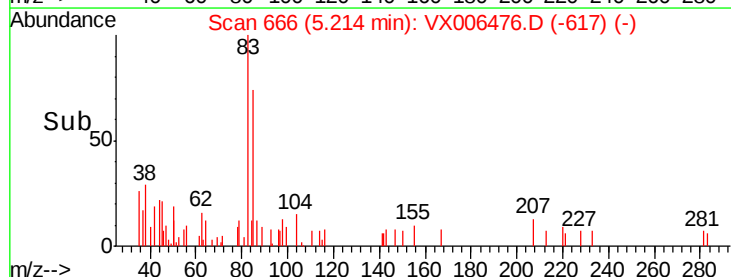
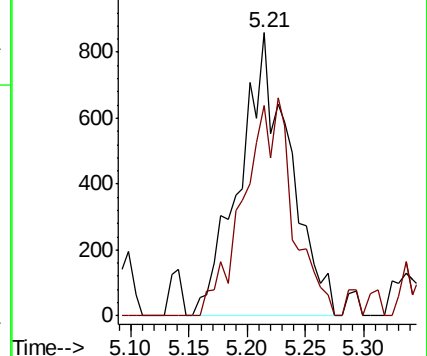
83 100

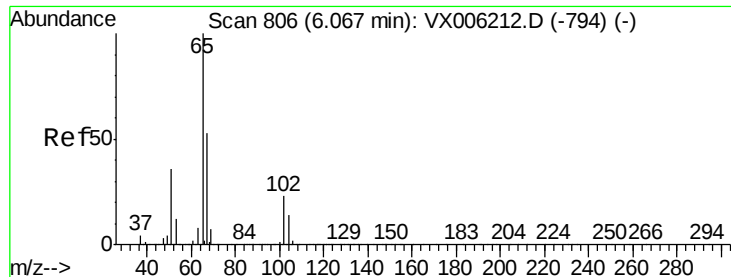
85 74.2 50.3 75.5



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.657 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampled :

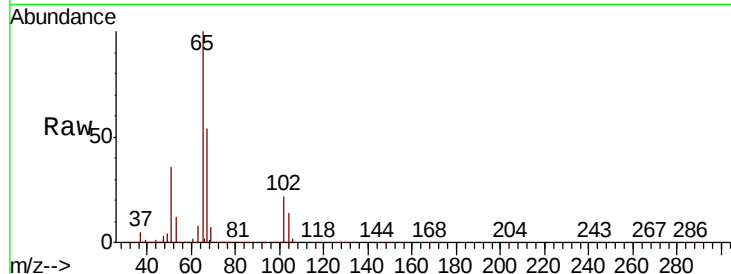
SOIL

Tot Ion: 65 Resp: 354318

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

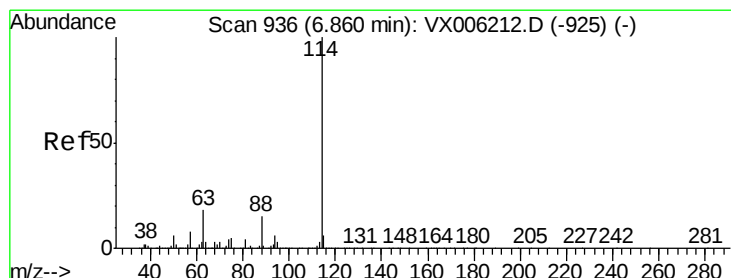
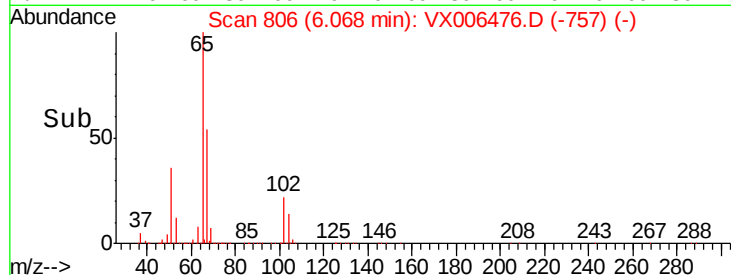
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

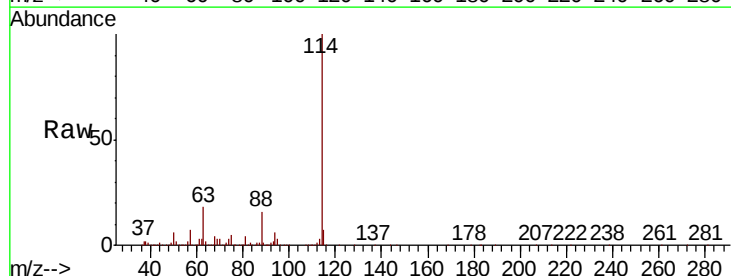
Tgt Ion: 114 Resp: 1052880

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.6

88 16.0 0.0 29.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

600000

500000

400000

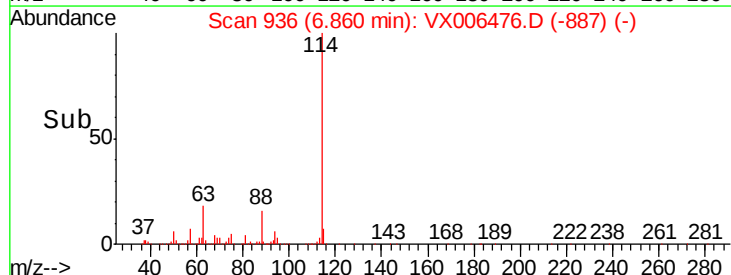
300000

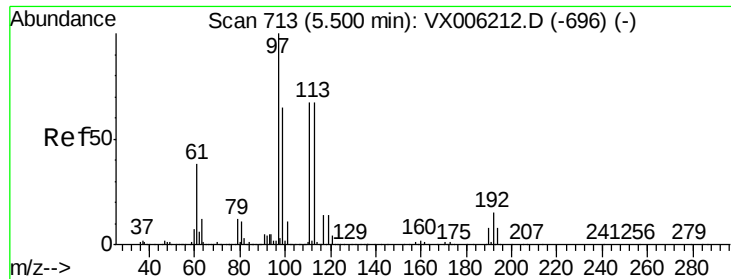
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.593 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampleId :

SOIL

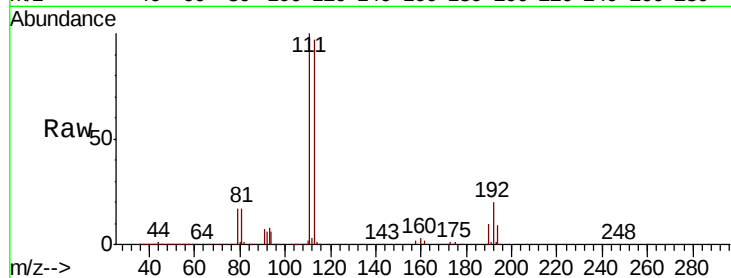
Tot Ion:113 Resp: 317626

Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

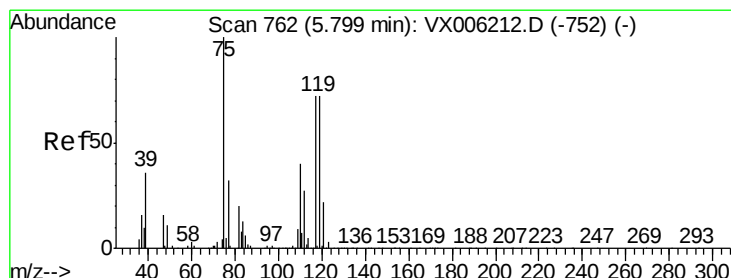
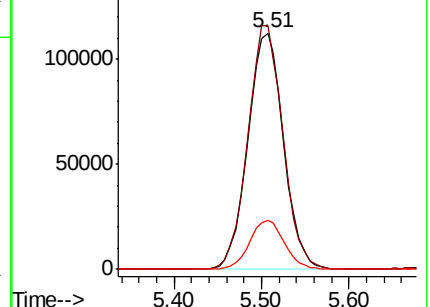
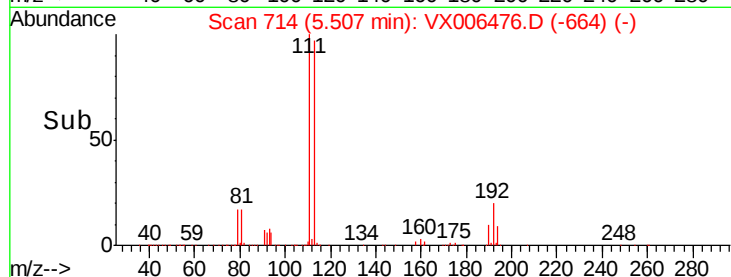
192 20.4 18.2 27.2



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: 4.853 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

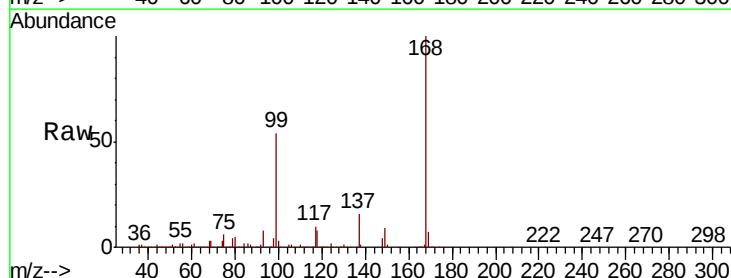
Tgt Ion: 75 Resp: 43025

Ion Ratio Lower Upper

75 100

110 11.3 20.4 61.3#

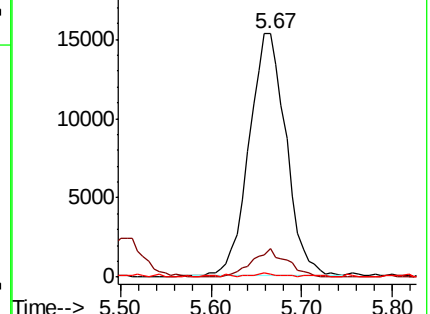
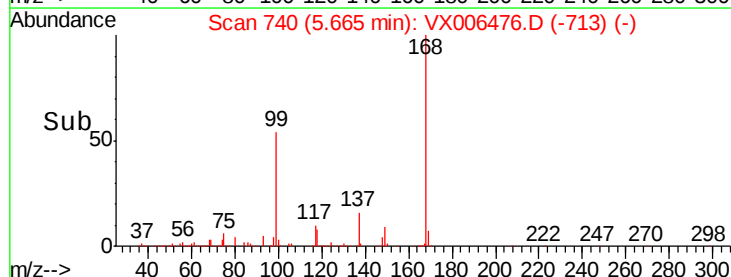
77 1.3 24.9 37.3#

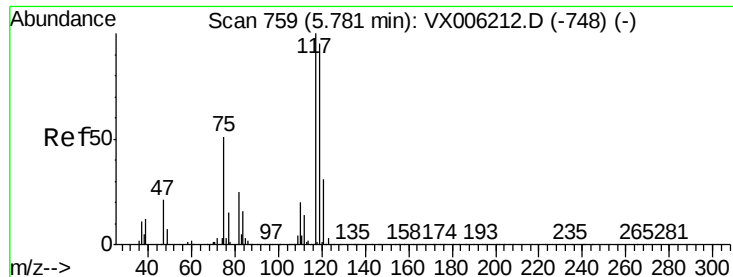


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.132 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampleId :

SOIL

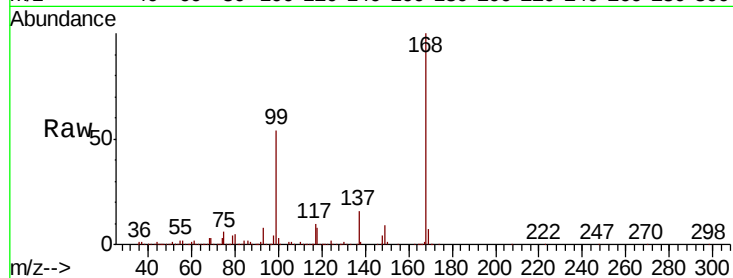
Tot Ion:117 Resp: 63965

Ion Ratio Lower Upper

117 100

119 4.0 75.8 113.8#

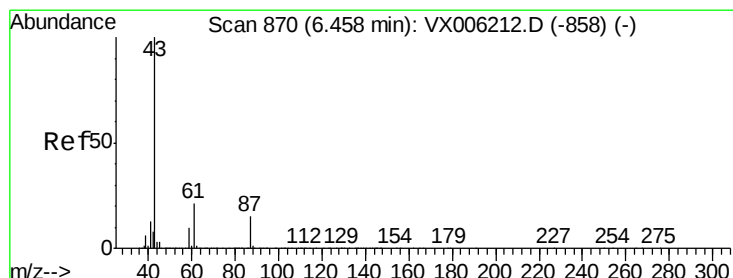
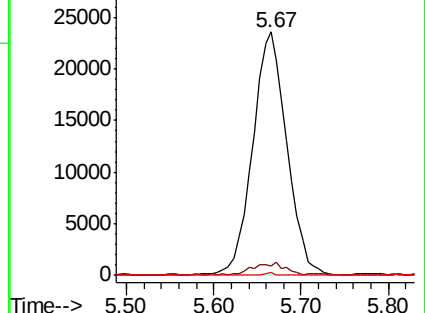
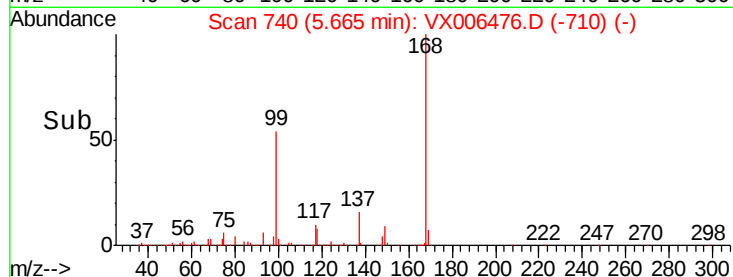
121 1.3 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 1.695 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

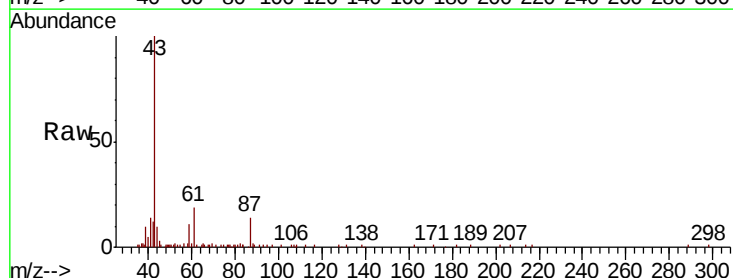
Tgt Ion: 43 Resp: 28060

Ion Ratio Lower Upper

43 100

61 24.4 16.8 25.2

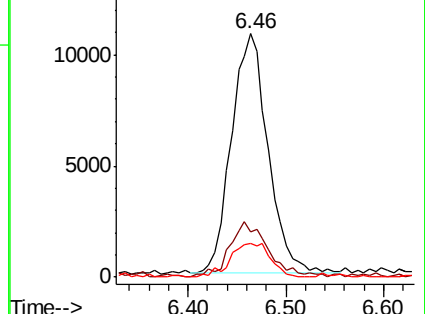
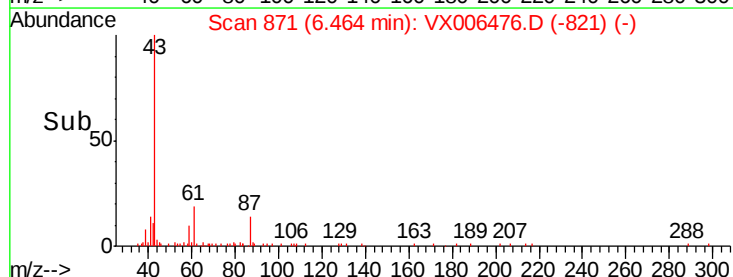
87 15.4 11.9 17.9

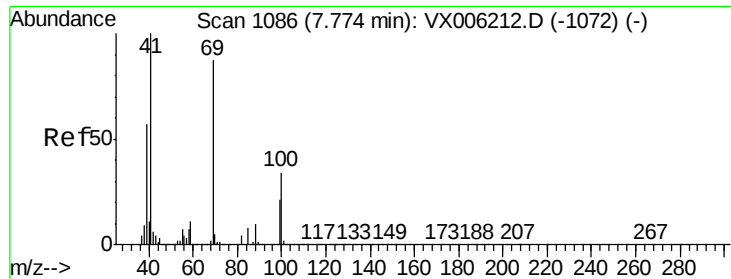


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

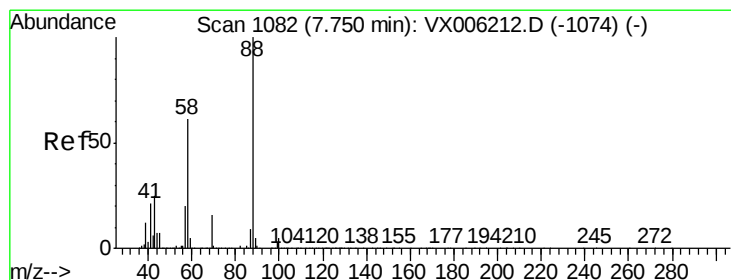
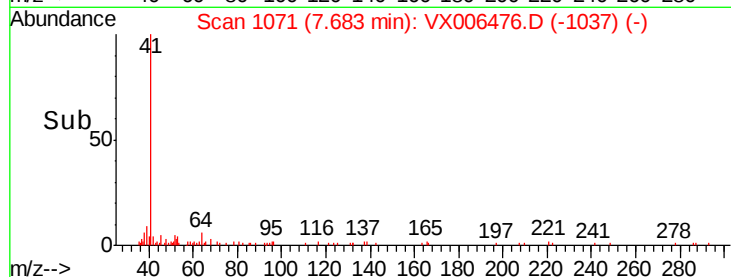
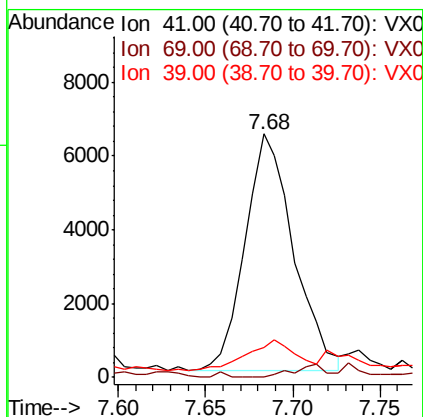
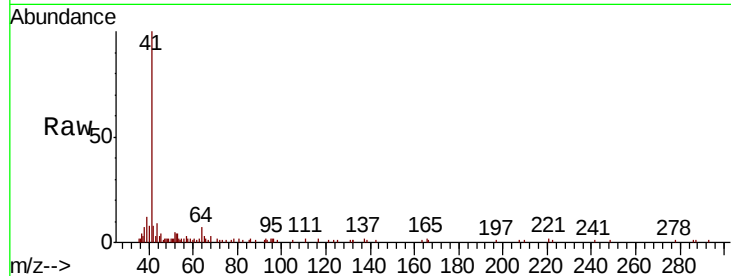




#48
Methvl methacrylate
Concen: 1.543 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

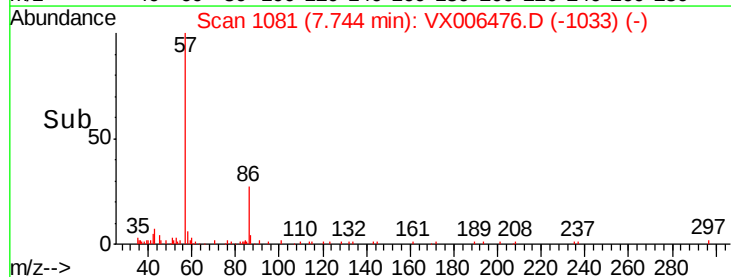
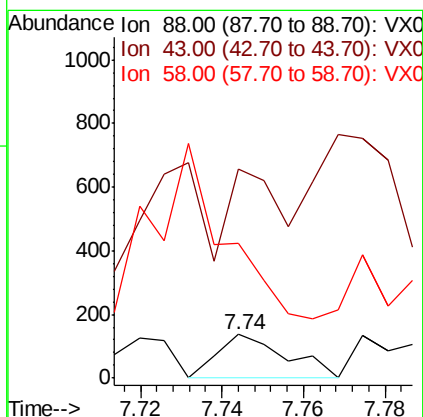
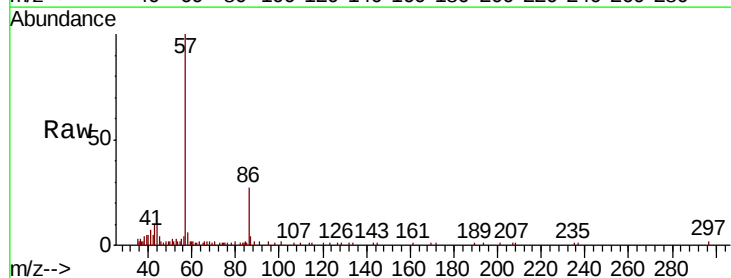
Instrument :
MSVOA_X
ClientSampleId :
SOIL

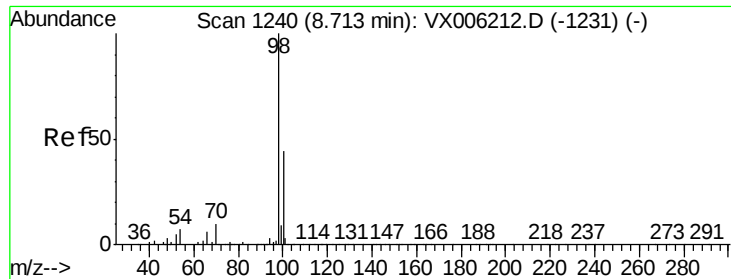
Tot Ion: 41 Resp: 12428
Ion Ratio Lower Upper
41 100
69 0.0 70.3 105.5#
39 0.0 45.3 67.9#



#49
1,4-Dioxane
Concen: 0.806 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

Tgt Ion: 88 Resp: 160
Ion Ratio Lower Upper
88 100
43 0.0 23.2 34.8#
58 0.0 51.4 77.0#

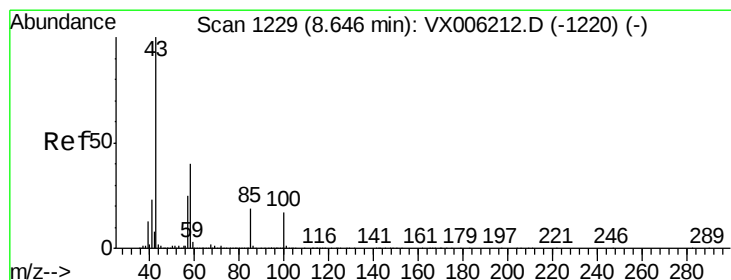
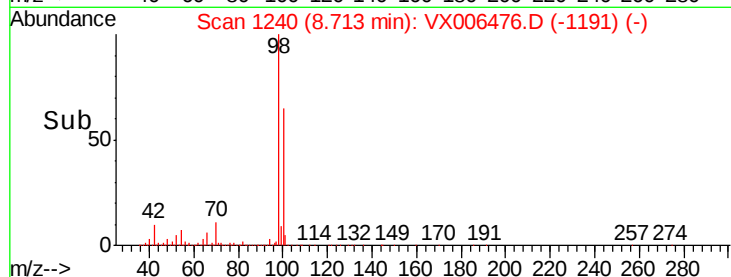
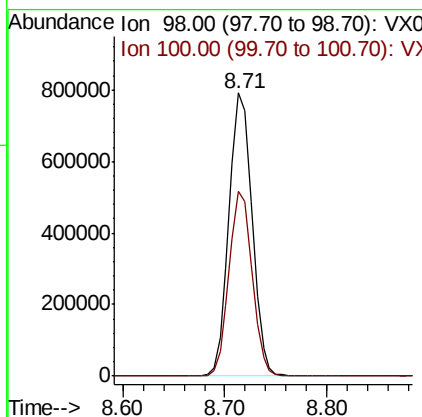
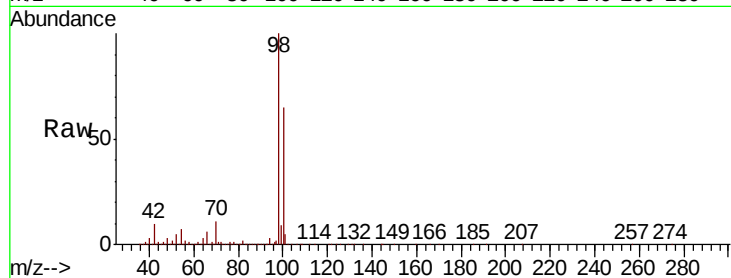




#50
Toluene-d8
Concen: 50.166 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

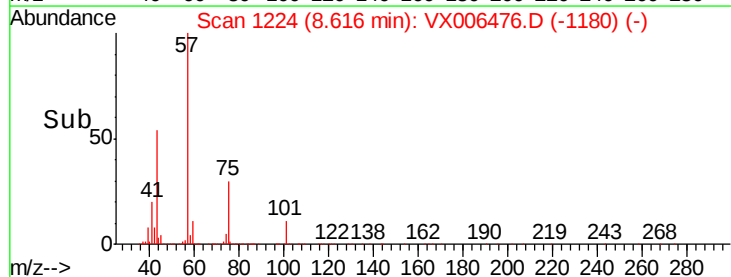
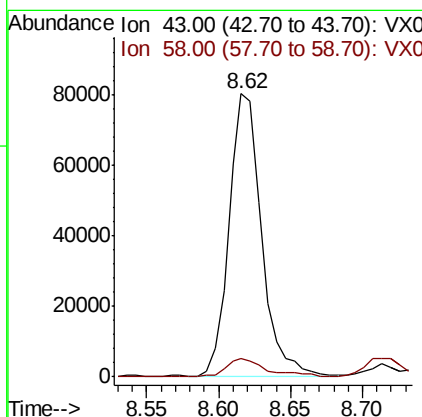
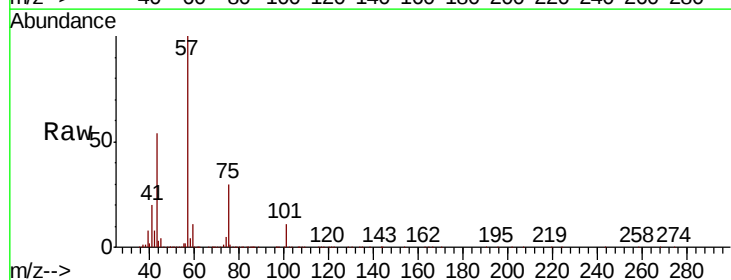
Instrument :
MSVOA_X
ClientSampled :
SOIL

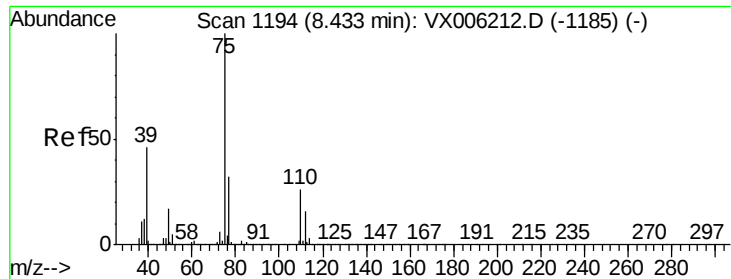
Tot Ion: 98 Resp: 1243924
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 13.064 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

Tgt Ion: 43 Resp: 125902
Ion Ratio Lower Upper
43 100
58 8.1 31.3 46.9#





#54

cis-1,3-Dichloropropene

Concen: 5.939 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampleId :

SOIL

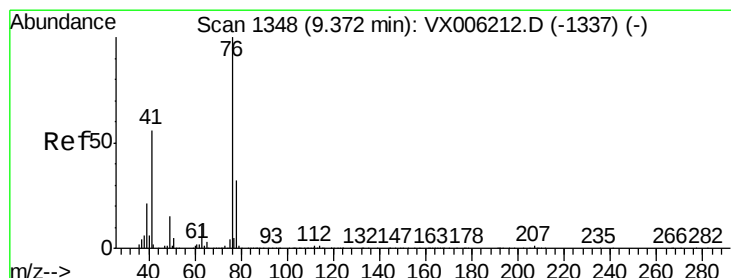
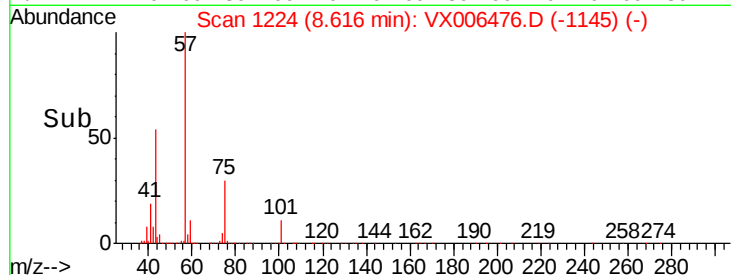
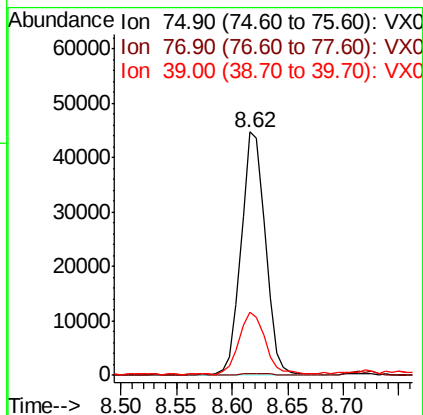
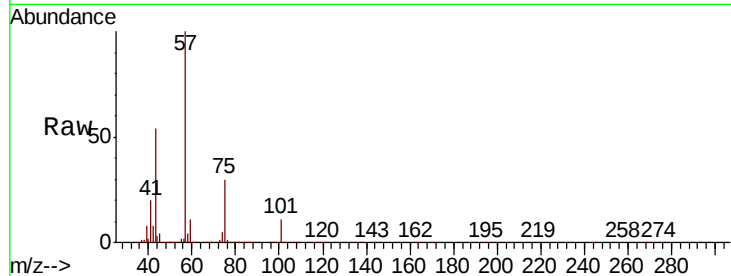
Tot Ion: 75 Resp: 68079

Ion Ratio Lower Upper

75 100

77 0.5 25.6 38.4#

39 25.0 36.5 54.7#



#57

1,3-Dichloropropane

Concen: 1.035 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.18 min

Lab File: VX006476.D

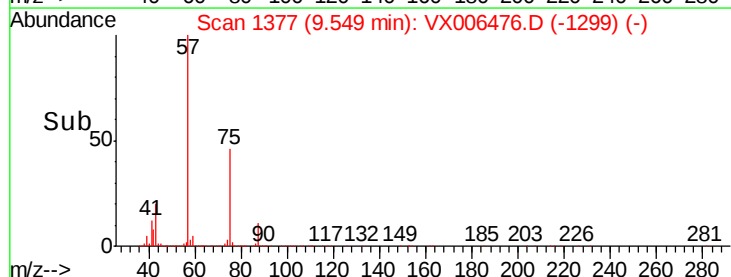
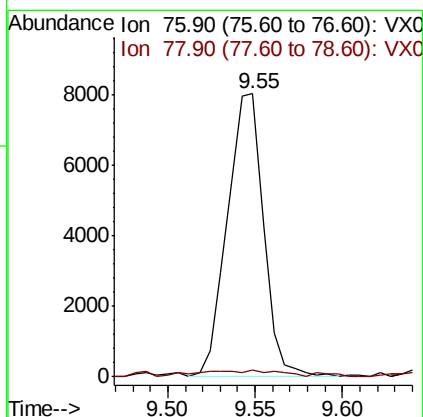
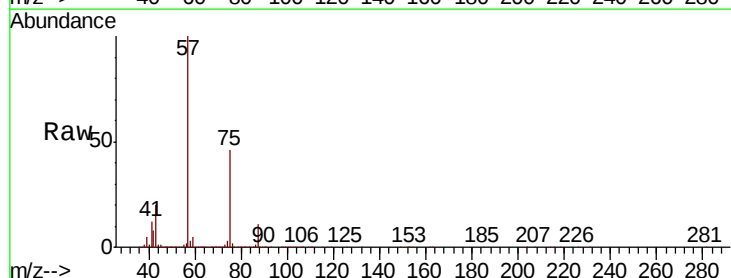
Acq: 13 Dec 2018 05:59

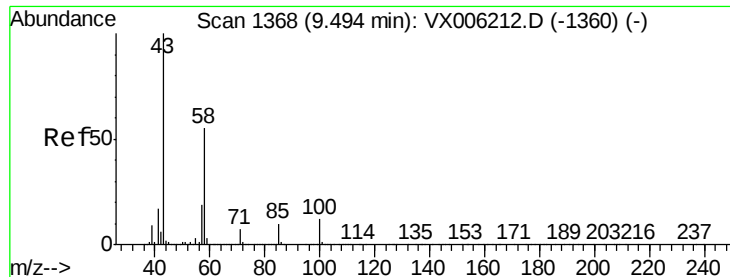
Tgt Ion: 76 Resp: 11611

Ion Ratio Lower Upper

76 100

78 3.0 26.1 39.1#





#59

2-Hexanone

Concen: 18.721 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampleId :

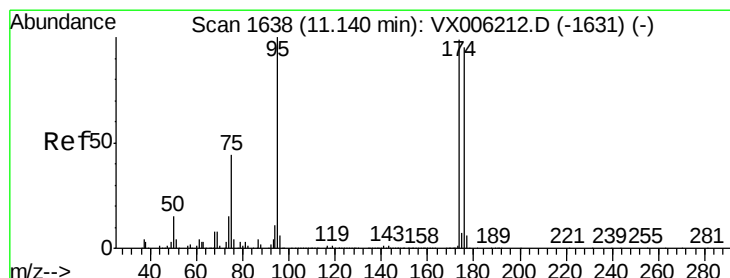
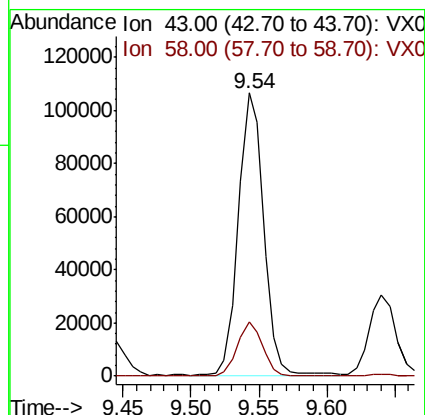
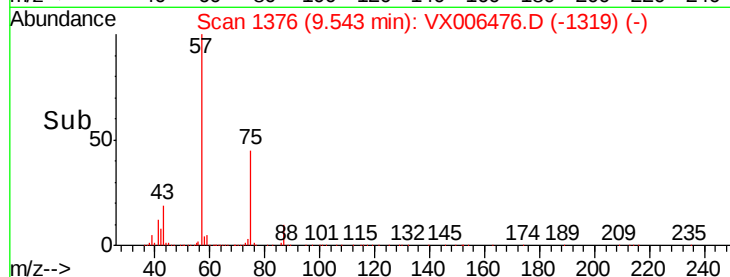
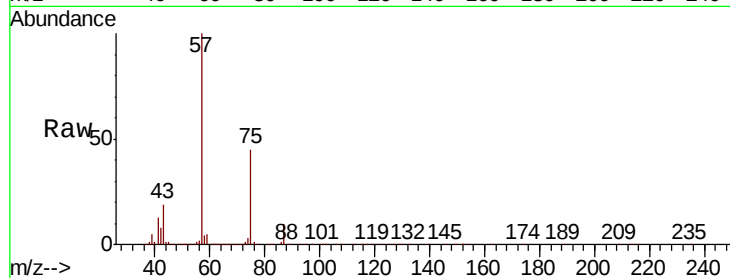
SOIL

Tot Ion: 43 Resp: 137842

Ion Ratio Lower Upper

43 100

58 19.3 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 49.368 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

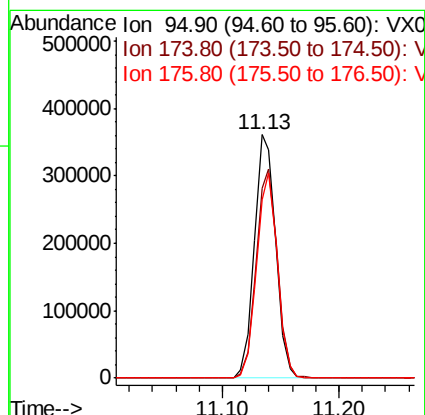
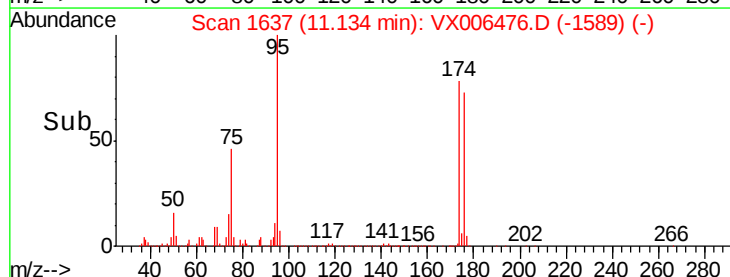
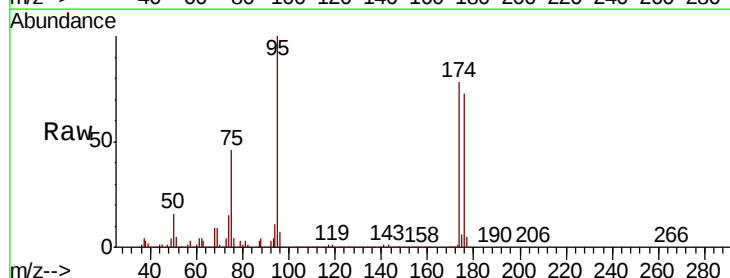
Tgt Ion: 95 Resp: 461291

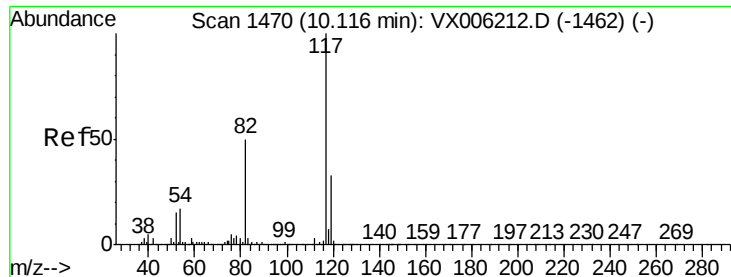
Ion Ratio Lower Upper

95 100

174 85.9 0.0 187.0

176 82.5 0.0 181.8

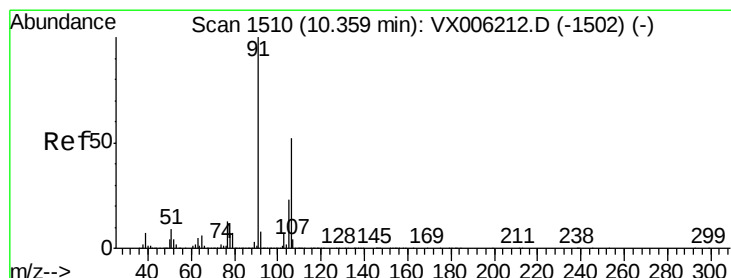
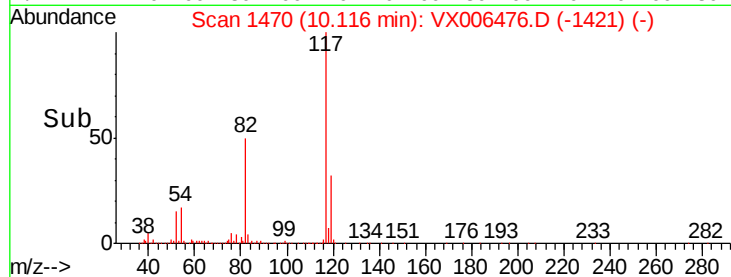
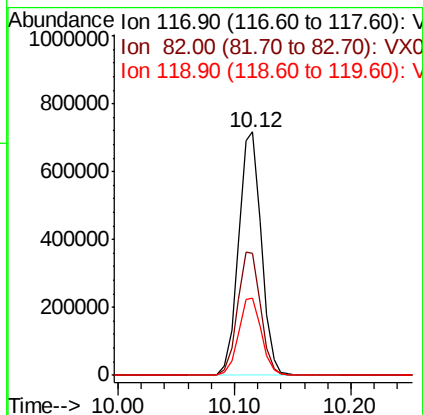
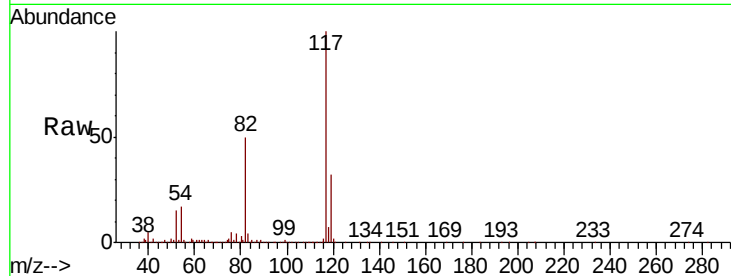




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

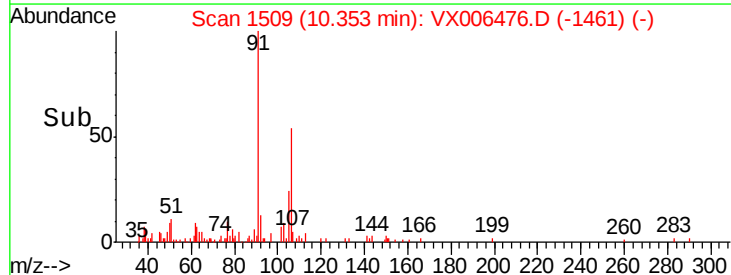
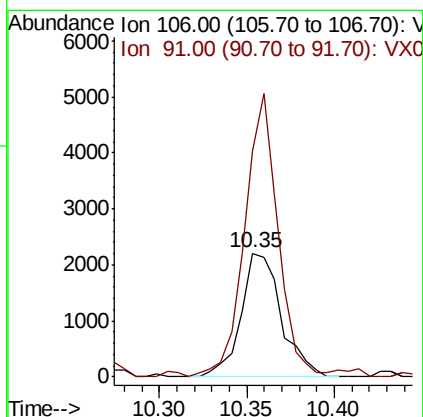
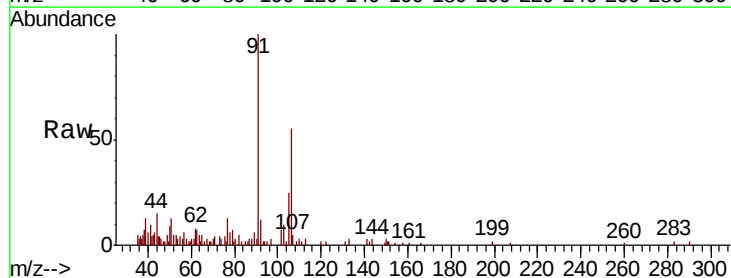
Instrument :
MSVOA_X
ClientSampleId :
SOIL

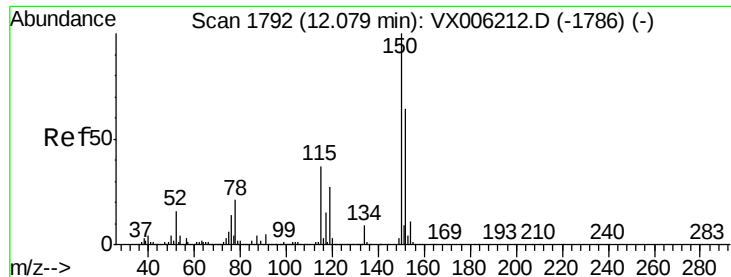
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.4	39.6	59.4
119	31.9	26.3	39.5



#68
m/p-Xylenes
Concen: 0.257 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

Tgt Ion	Ratio	Lower	Upper
106	100		
91	188.7	155.2	232.8



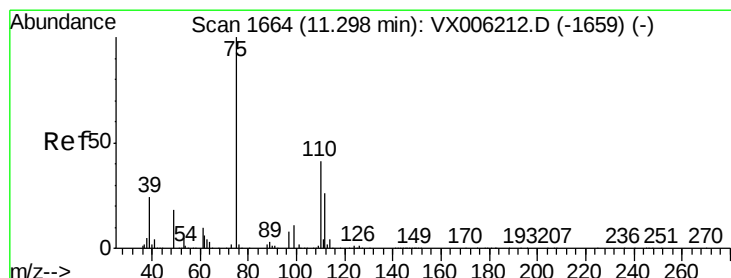
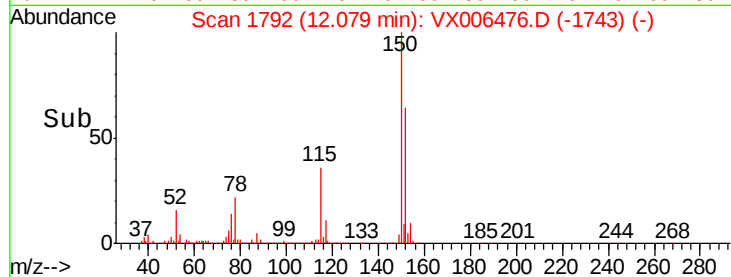
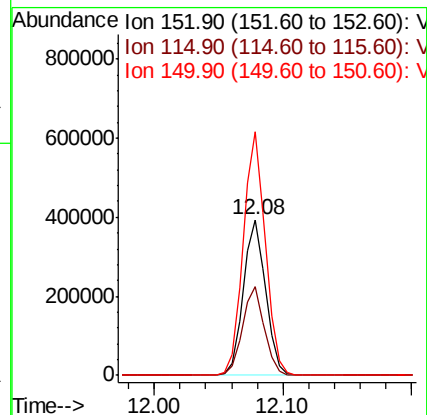
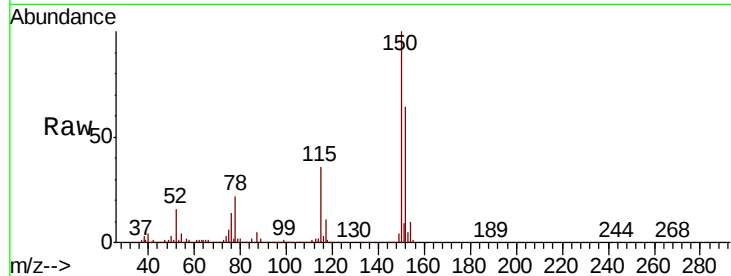


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

Instrument :
MSVOA_X
ClientSampleId :
SOIL

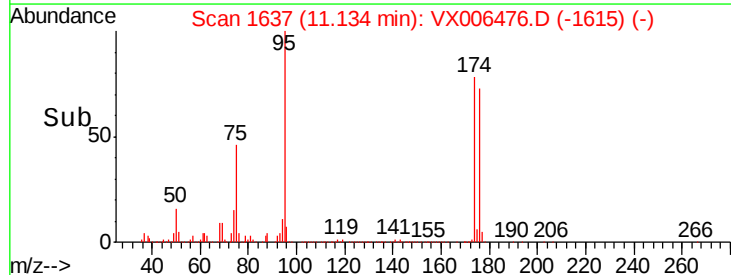
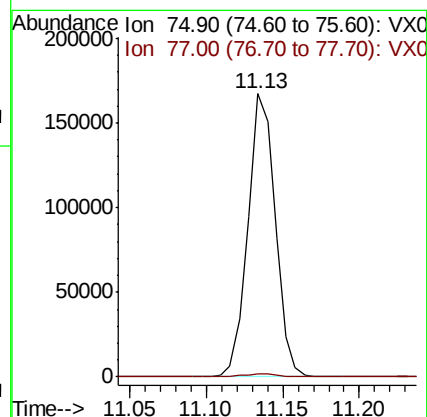
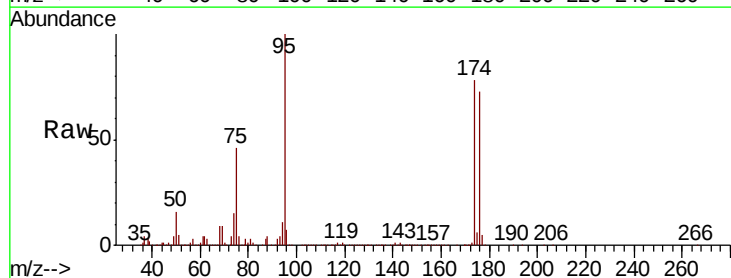
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.9	39.0	116.9
150	155.3	0.0	345.8

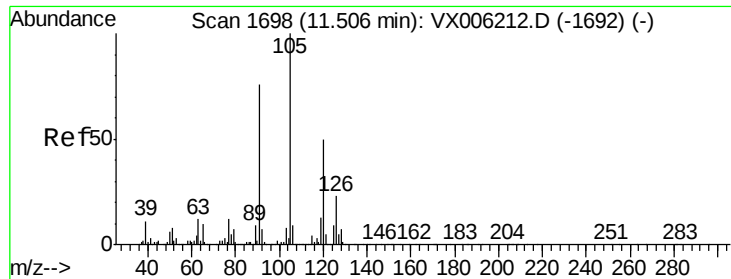


#76

1,2,3-Trichloropropane
Concen: 22.846 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006476.D
Acq: 13 Dec 2018 05:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.9	59.7#

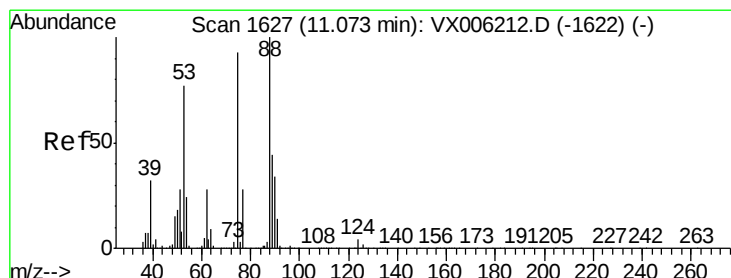
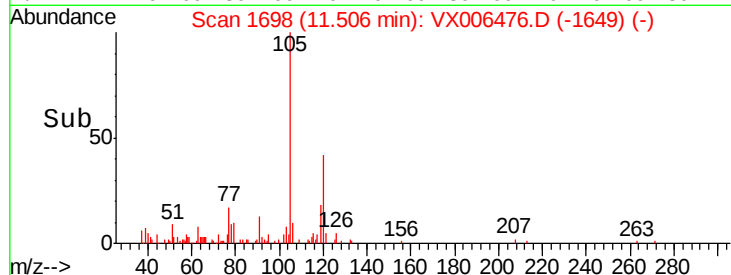
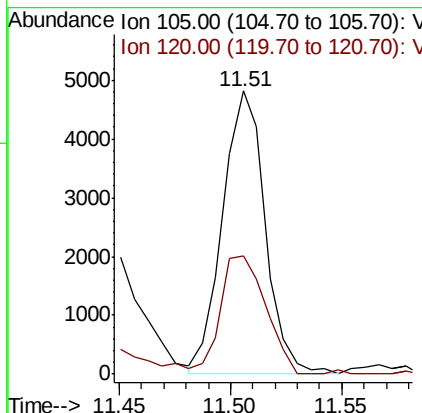
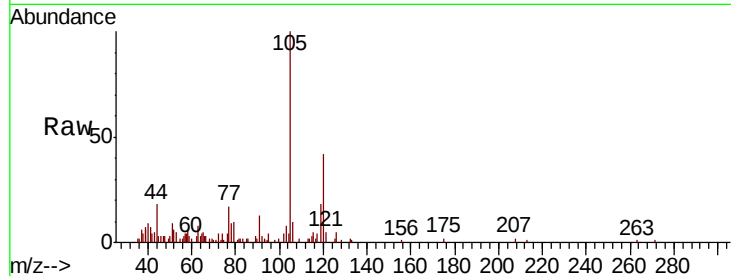




#80
 1,3,5-Trimethylbenzene
 Concen: 0.237 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006476.D
 Acq: 13 Dec 2018 05:59

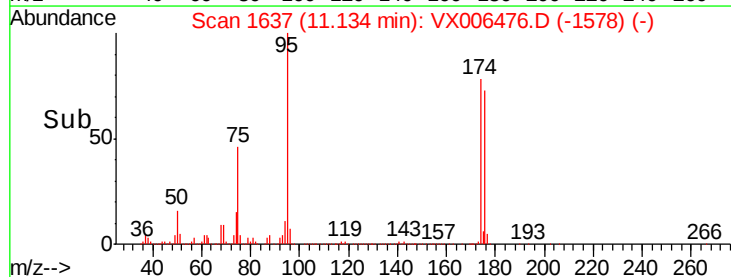
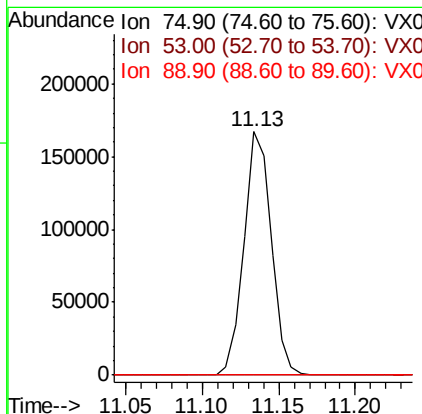
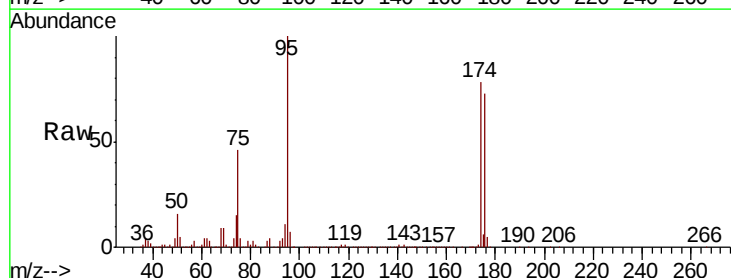
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL

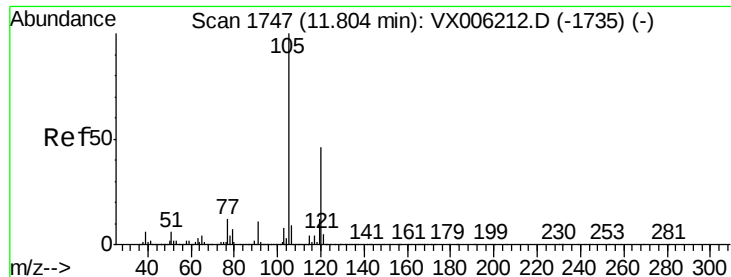
Tot Ion:105 Resp: 6412
 Ion Ratio Lower Upper
 105 100
 120 44.2 25.4 76.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.613 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006476.D
 Acq: 13 Dec 2018 05:59

Tgt Ion: 75 Resp: 207501
 Ion Ratio Lower Upper
 75 100
 53 0.1 64.4 96.6#
 89 0.1 44.2 66.4#





#84

1,2,4-Trimethylbenzene

Concen: 0.344 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

Instrument :

MSVOA_X

ClientSampleId :

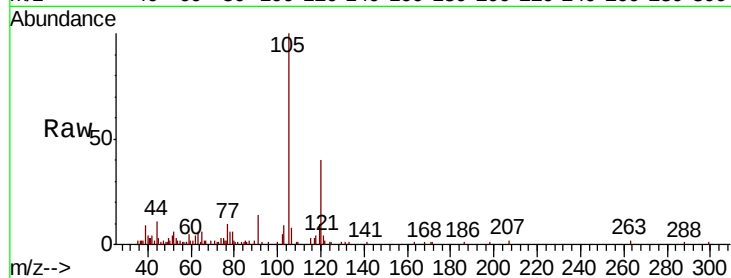
SOIL

Tot Ion:105 Resp: 9596

Ion Ratio Lower Upper

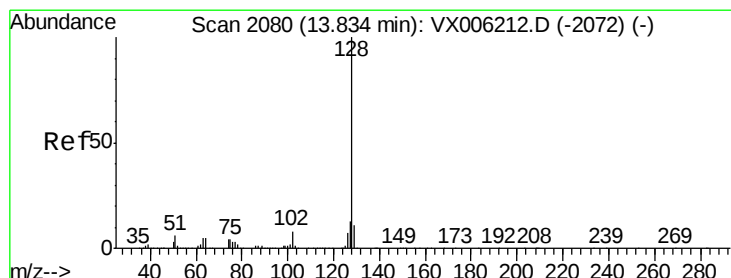
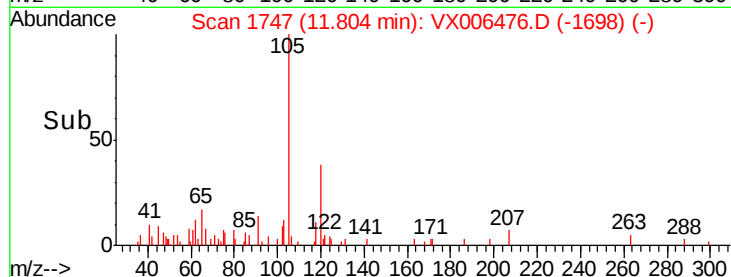
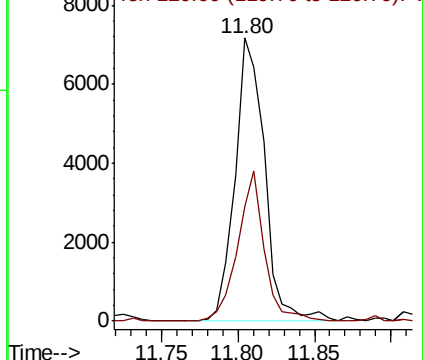
105 100

120 48.1 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: 2.873 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006476.D

Acq: 13 Dec 2018 05:59

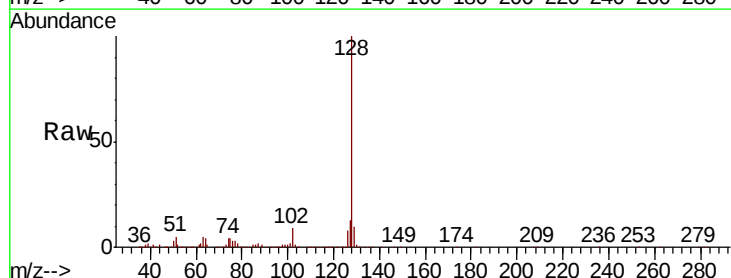
Tgt Ion:128 Resp: 103820

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.4

129 10.8 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

