

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012819\
 Data File : VX007271.D
 Acq On : 28 Jan 2019 19:52
 Operator : JC/SP
 Sample : K1254-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-1

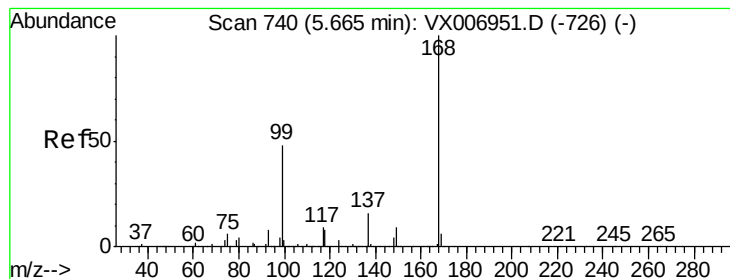
Quant Time: Jan 29 00:21:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	522157	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	799114	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	764579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	360768	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	277059	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
35) Dibromofluoromethane	5.51	113	249868	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
50) Toluene-d8	8.71	98	986232	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
62) 4-Bromofluorobenzene	11.13	95	340525	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1447	0.290	ug/l #	43
11) Tert butyl alcohol	3.07	59	616	0.479	ug/l #	45
13) Acrolein	2.31	56	651	4.242	ug/l #	64
16) Acetone	2.45	43	42045	15.585	ug/l	100
18) Methyl Acetate	2.78	43	9529	1.220	ug/l #	87
20) Methylene Chloride	2.86	84	38645	7.045	ug/l	97
25) 2-Butanone	4.70	43	10512	2.723	ug/l	97
29) Tetrahydrofuran	5.17	42	2722	1.085	ug/l #	81
30) Chloroform	5.21	83	2535	0.280	ug/l	96
36) 1,1-Dichloropropene	5.66	75	33388	4.806	ug/l #	50
38) Carbon Tetrachloride	5.67	117	47113	6.740	ug/l #	14
43) Isopropyl Acetate	6.46	43	24385	2.075	ug/l	95
48) Methyl methacrylate	7.68	41	12130	2.010	ug/l #	11
49) 1,4-Dioxane	7.73	88	161	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	132270	17.518	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	63821	8.174	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	14345	1.606	ug/l #	44
59) 2-Hexanone	9.54	43	188268	32.720	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	164332	22.478	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	164332	66.486	ug/l #	10
90) Hexachloroethane	12.58	117	91	2.932	ug/l #	6
95) Naphthalene	13.83	128	14297	0.550	ug/l #	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampled :

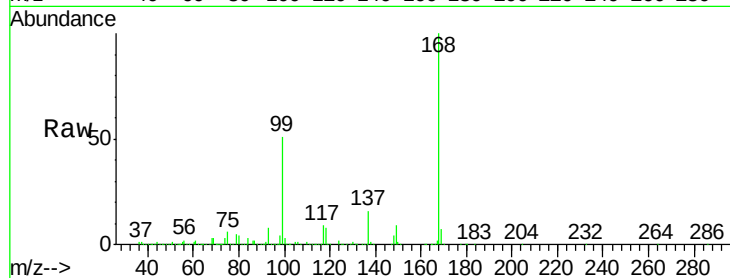
SOIL-1

Tot Ion:168 Resp: 522157

Ion Ratio Lower Upper

168 100

99 50.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

150000

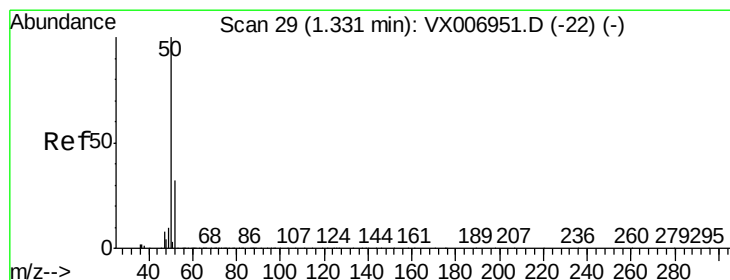
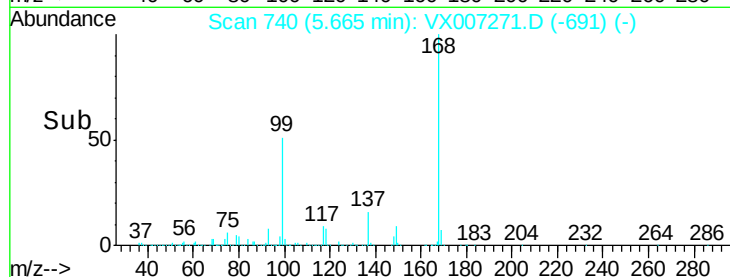
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.290 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007271.D

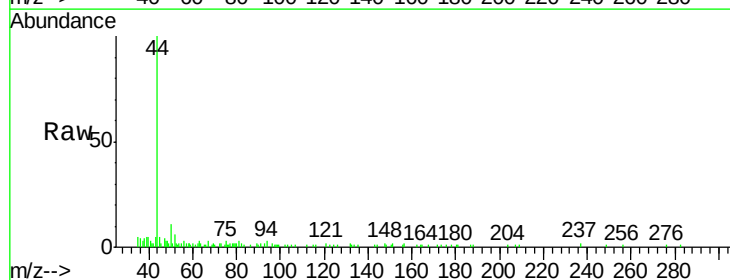
Acq: 28 Jan 2019 19:52

Tgt Ion: 50 Resp: 1447

Ion Ratio Lower Upper

50 100

52 63.7 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

600

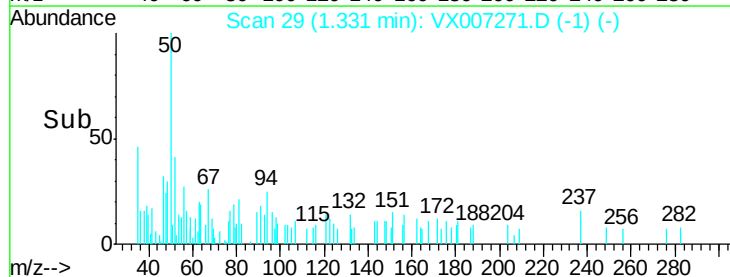
400

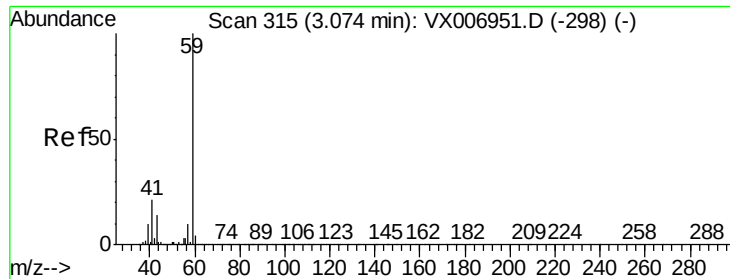
200

0

Time-->

1.30 1.35



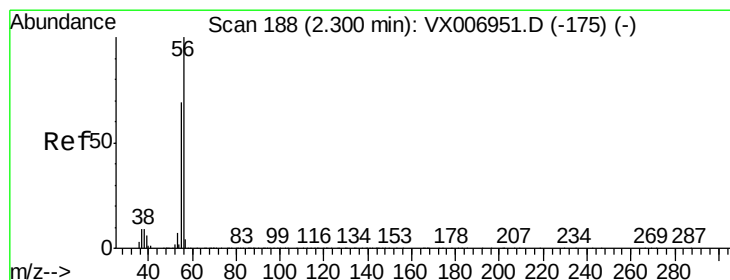
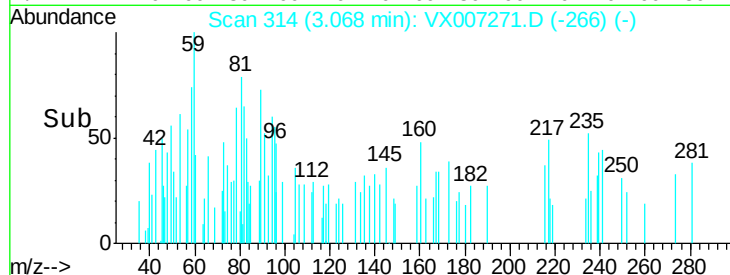
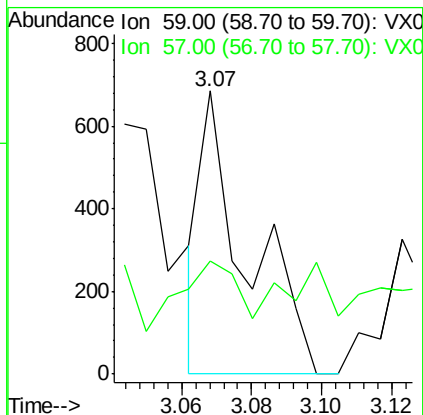
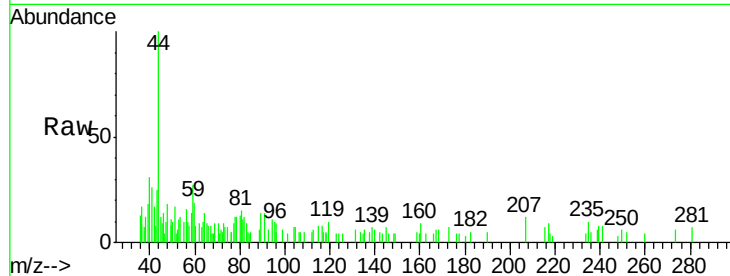


#11

Tert butyl alcohol
Concen: 0.479 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

Instrument :
MSVOA_X
ClientSampled :
SOIL-1

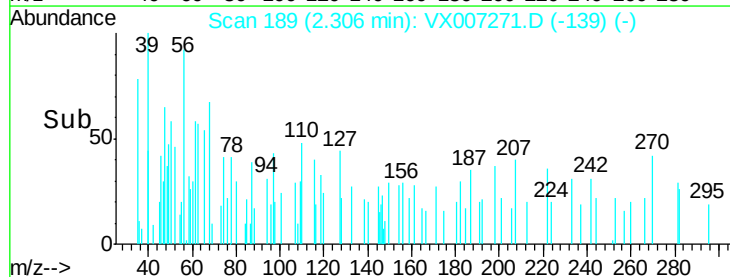
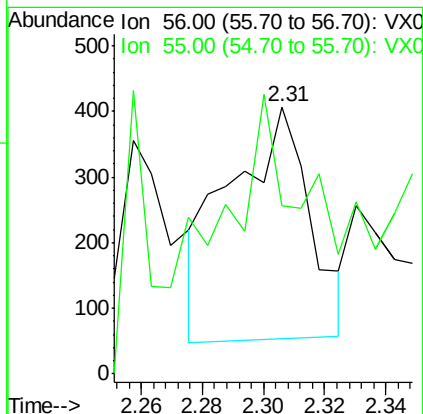
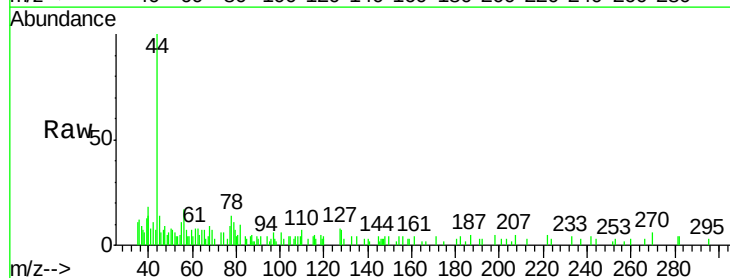
Tot Ion: 59 Resp: 616
Ion Ratio Lower Upper
59 100
57 31.2 8.5 12.7#

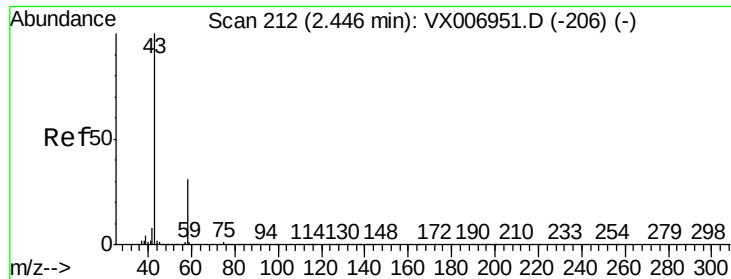


#13

Acrolein
Concen: 4.242 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

Tgt Ion: 56 Resp: 651
Ion Ratio Lower Upper
56 100
55 103.1 58.2 87.4#

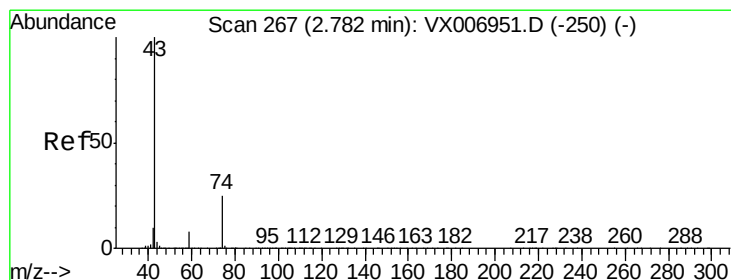
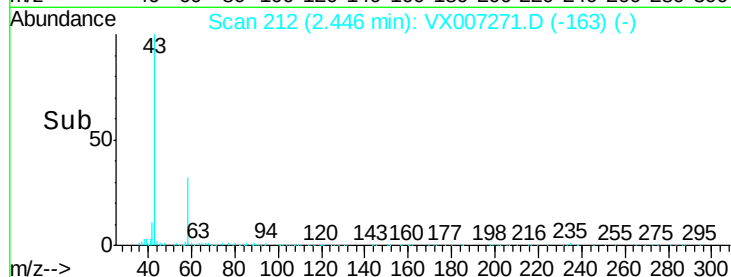
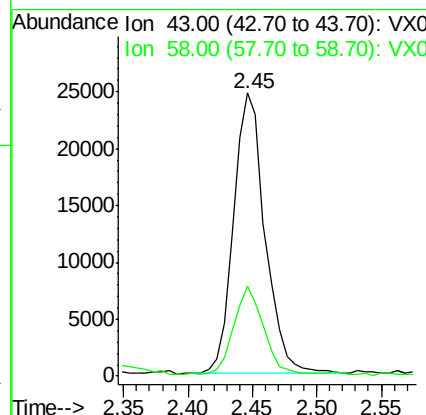
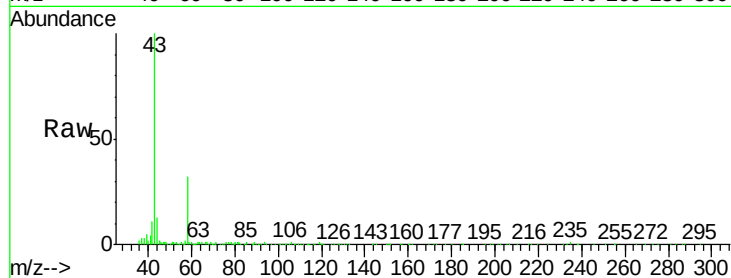




#16
Acetone
Concen: 15.585 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

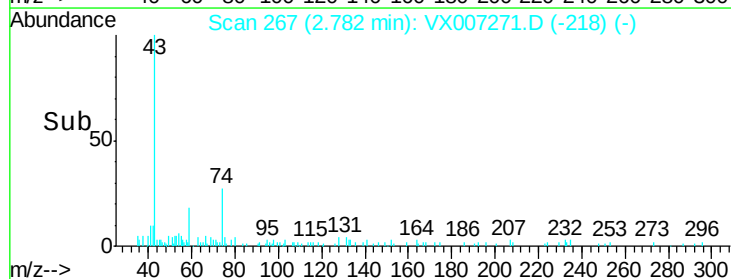
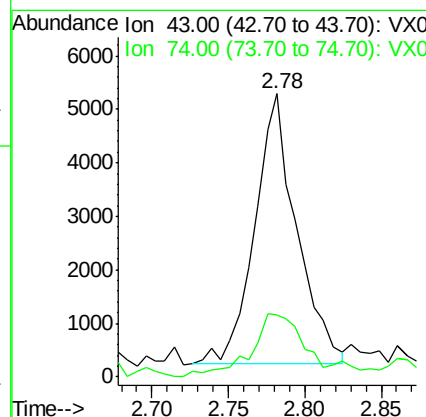
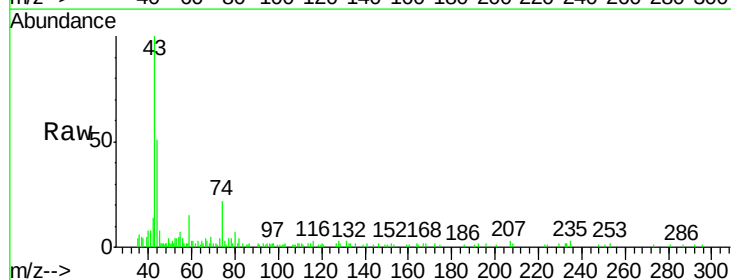
Instrument :
MSVOA_X
ClientSampled :
SOIL-1

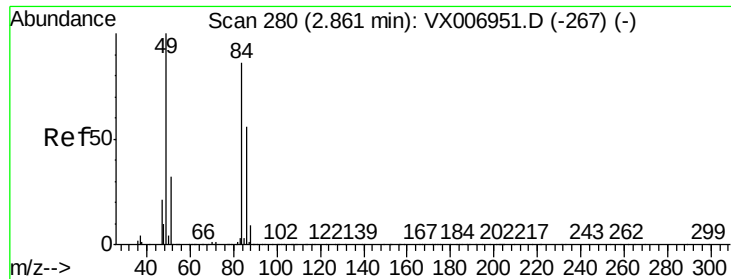
Tot Ion: 43 Resp: 42045
Ion Ratio Lower Upper
43 100
58 31.1 25.0 37.6



#18
Methyl Acetate
Concen: 1.220 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

Tgt Ion: 43 Resp: 9529
Ion Ratio Lower Upper
43 100
74 29.6 18.6 28.0#

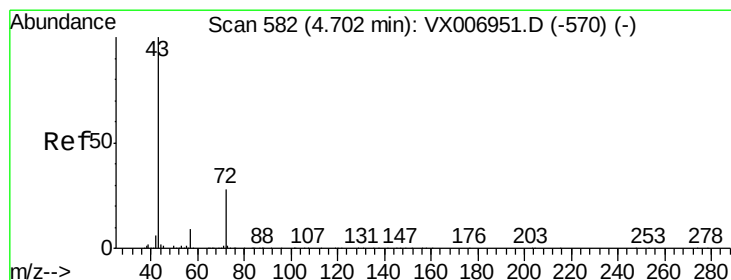
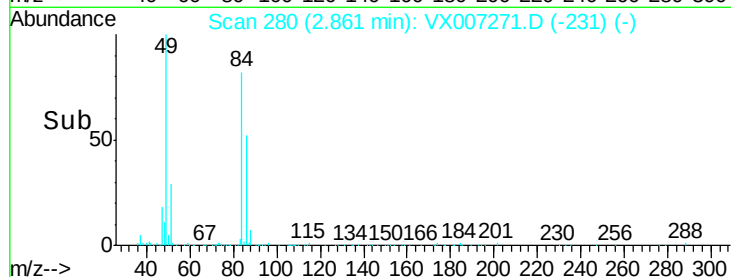
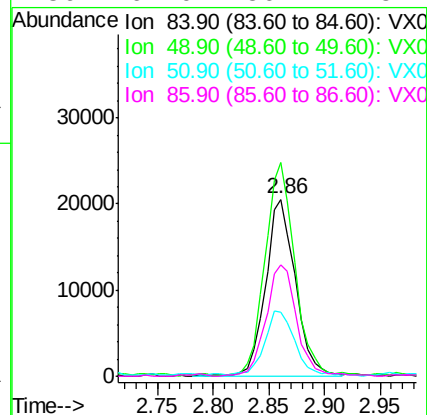
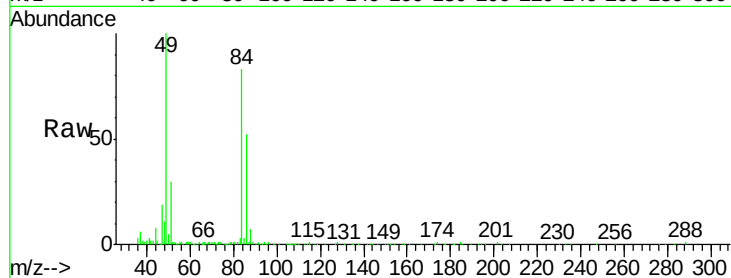




#20
Methvlene Chloride
Concen: 7.045 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

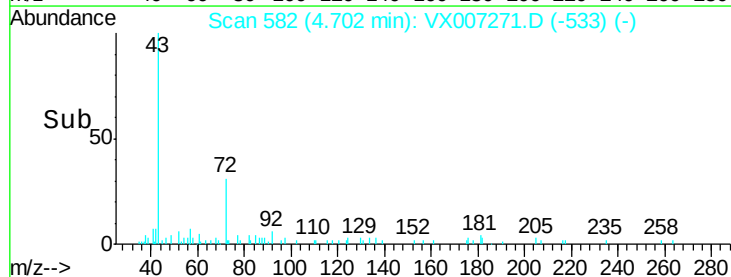
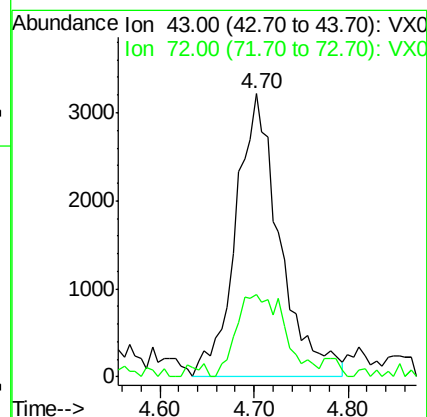
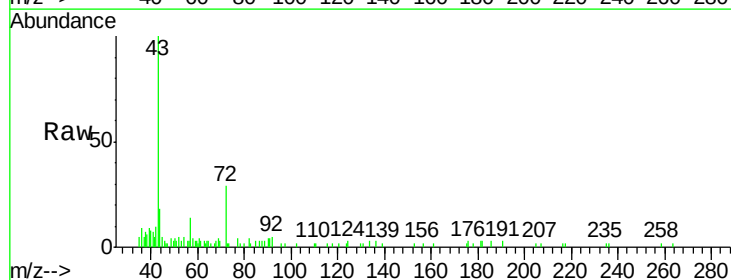
Instrument :
MSVOA_X
ClientSampled :
SOIL-1

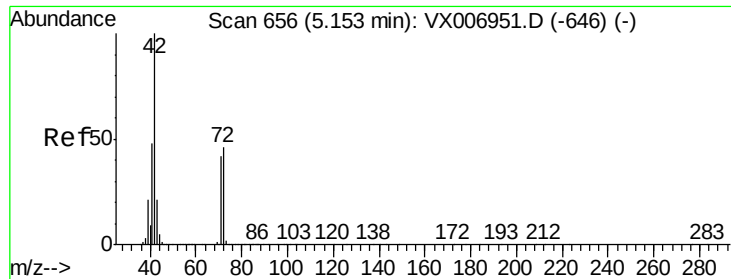
Tot Ion:	84	Resp:	38645
Ion	Ratio	Lower	Upper
84	100		
49	119.5	91.8	137.6
51	34.8	28.5	42.7
86	62.0	50.2	75.2



#25
2-Butanone
Concen: 2.723 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

Tgt Ion:	43	Resp:	10512
Ion	Ratio	Lower	Upper
43	100		
72	26.5	22.4	33.6





#29

Tetrahydrofuran

Concen: 1.085 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampled :

SOIL-1

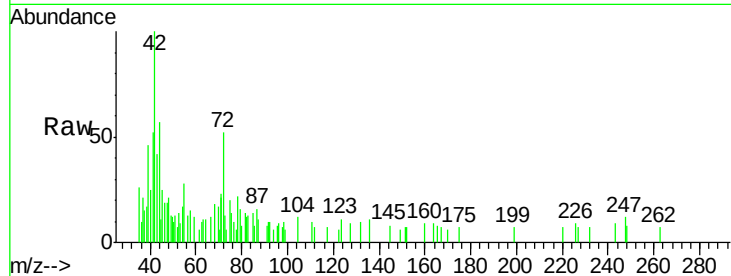
Tot Ion: 42 Resp: 2722

Ion Ratio Lower Upper

42 100

72 41.1 38.9 58.3

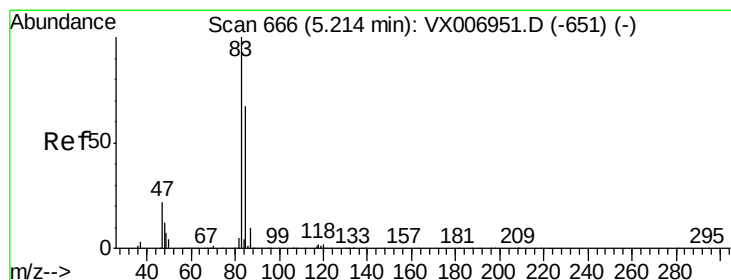
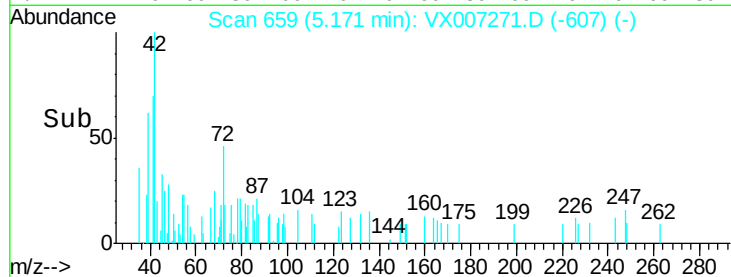
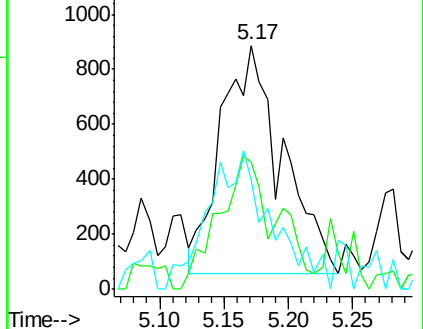
71 63.2 36.2 54.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.280 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX007271.D

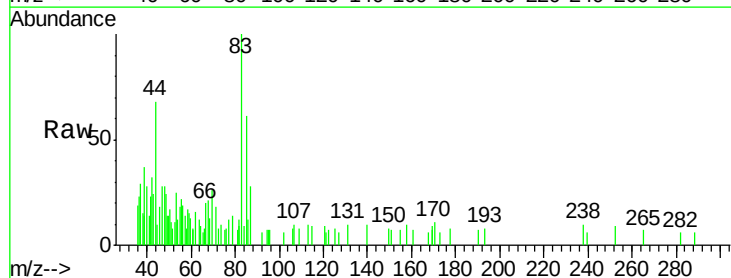
Acq: 28 Jan 2019 19:52

Tgt Ion: 83 Resp: 2535

Ion Ratio Lower Upper

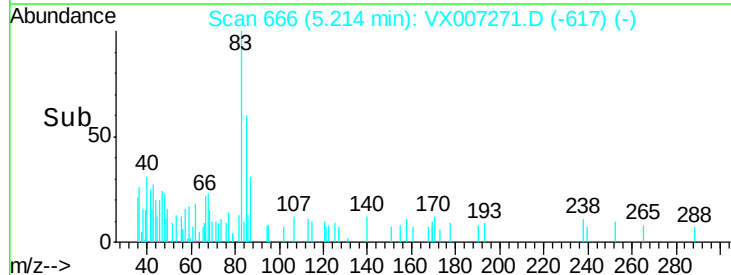
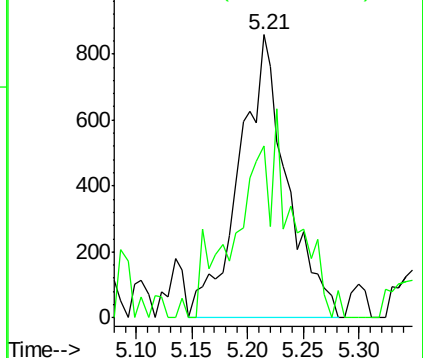
83 100

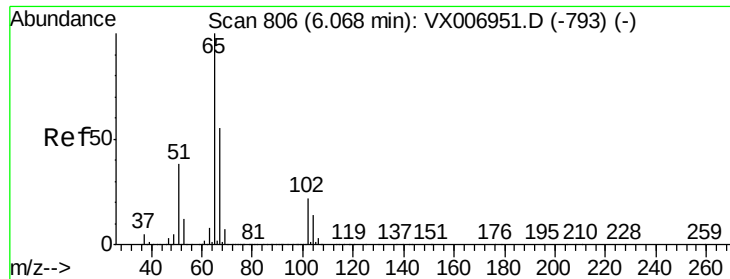
85 60.6 51.2 76.8



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

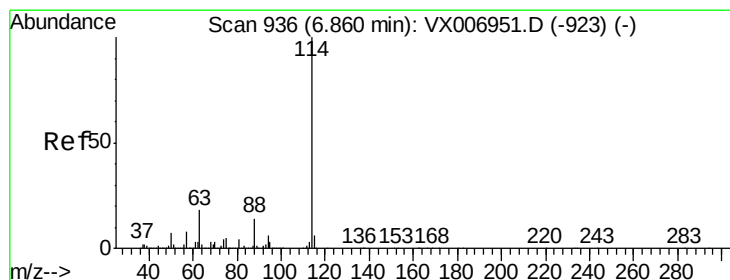
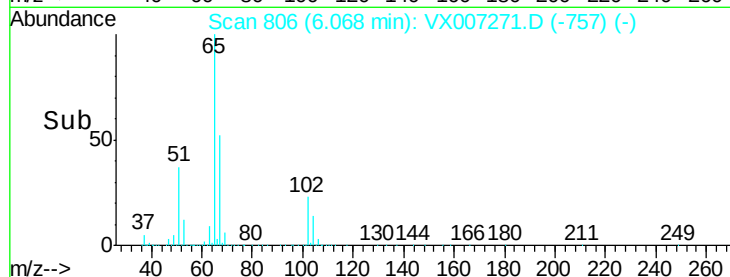
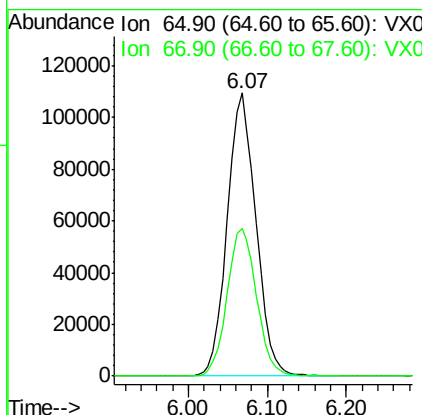
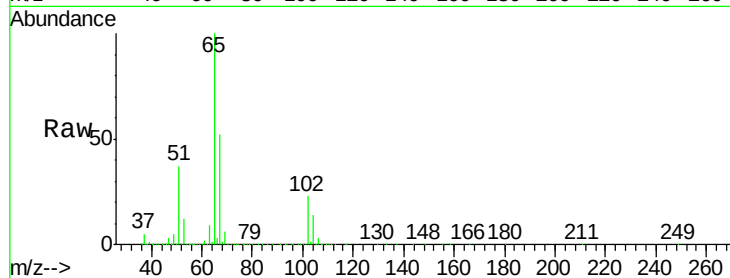




#33
 1,2-Dichloroethane-d4
 Concen: 50.771 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX007271.D
 Acq: 28 Jan 2019 19:52

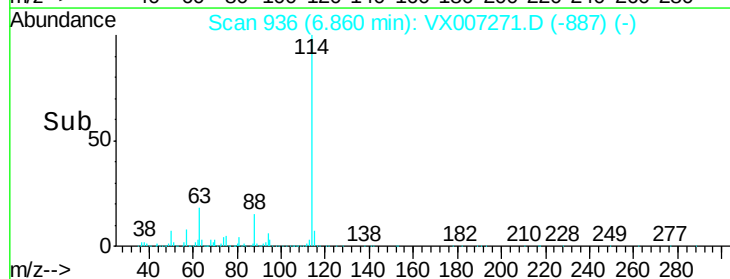
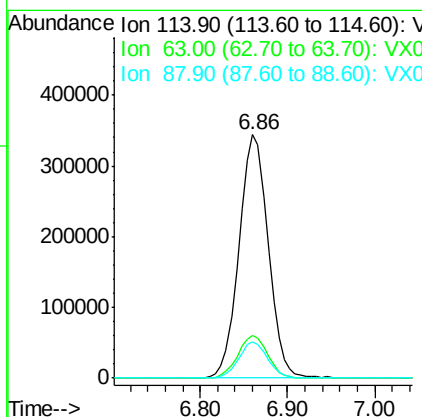
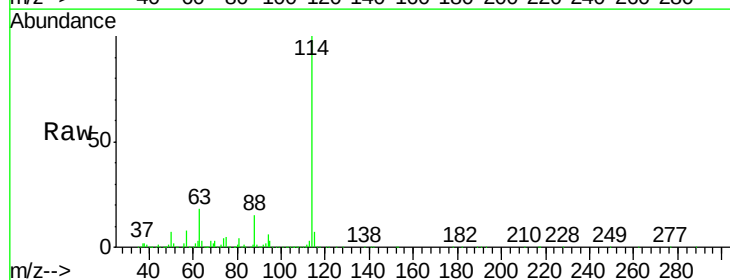
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-1

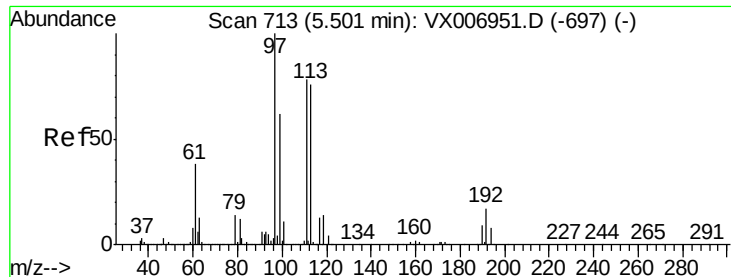
Tot Ion: 65 Resp: 277059
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007271.D
 Acq: 28 Jan 2019 19:52

Tgt Ion: 114 Resp: 799114
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 34.8
 88 14.7 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.826 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

SOIL-1

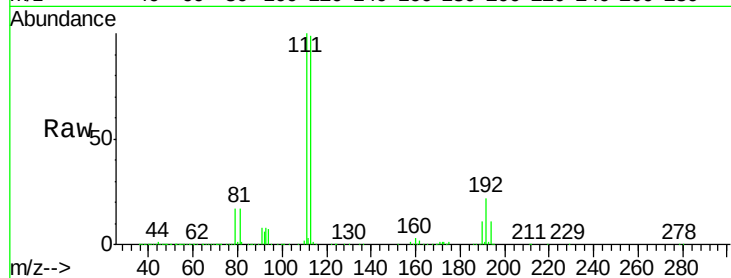
Tot Ion:113 Resp: 249868

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

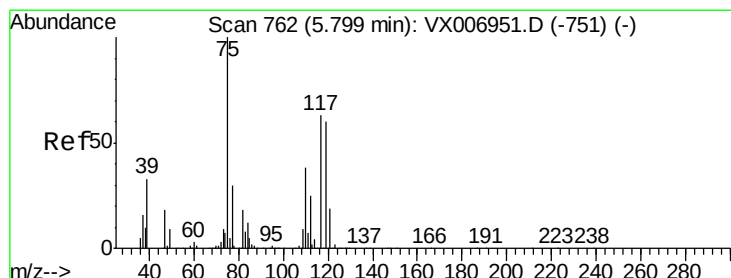
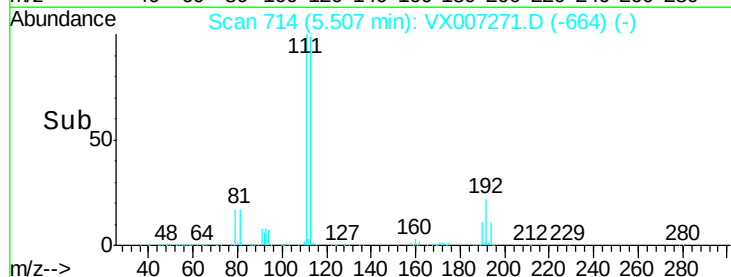
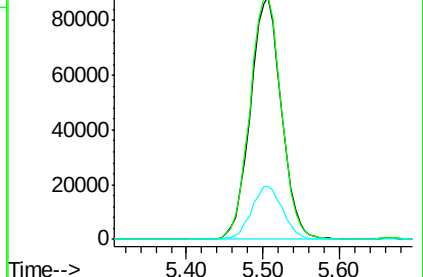
192 22.0 16.7 25.1



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: 4.806 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

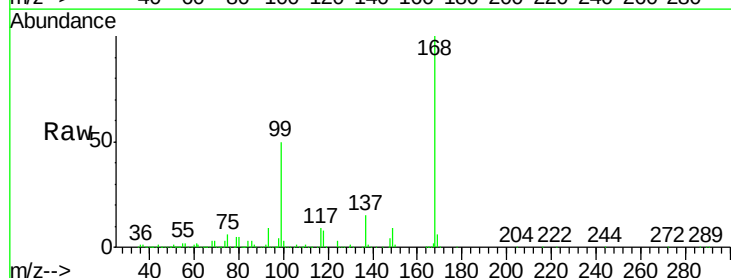
Tgt Ion: 75 Resp: 33388

Ion Ratio Lower Upper

75 100

110 11.8 20.2 60.5#

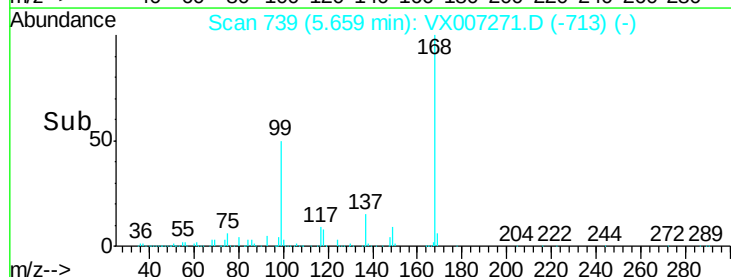
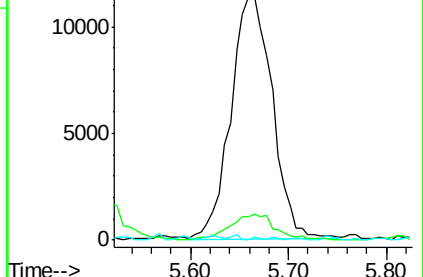
77 0.2 24.8 37.2#

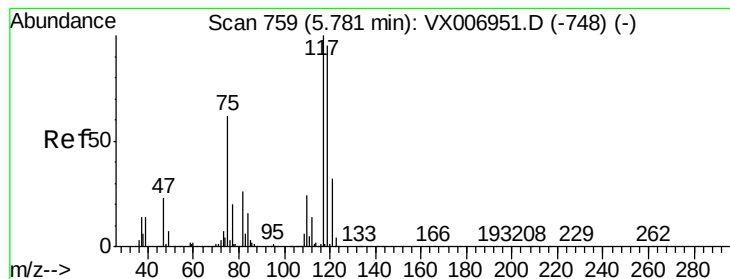


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.740 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

SOIL-1

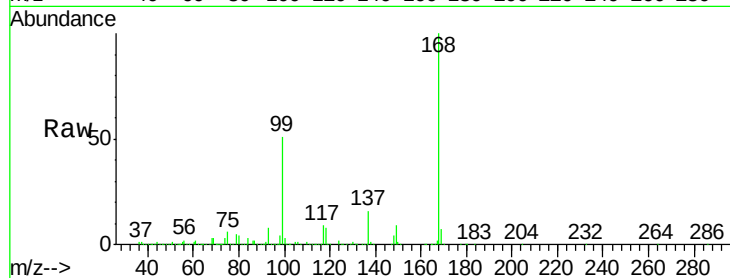
Tot Ion:117 Resp: 47113

Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

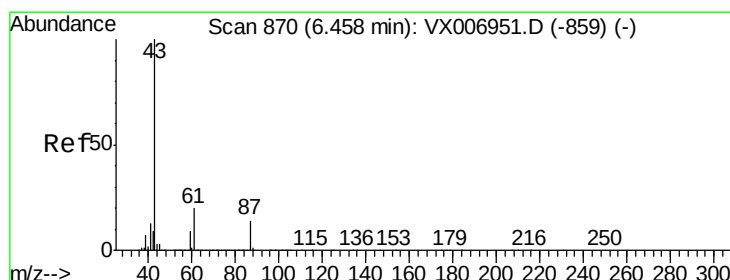
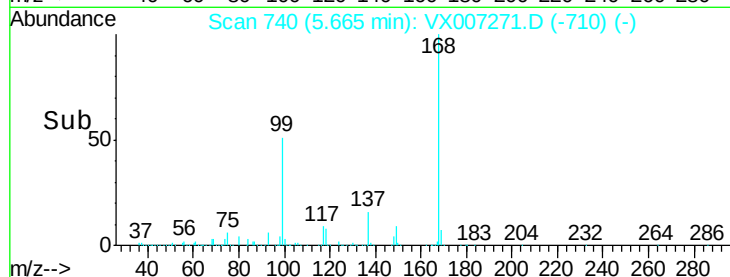
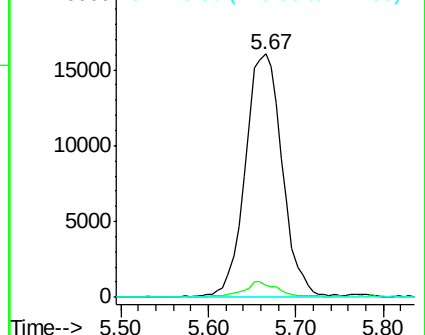
121 0.0 24.0 36.0#



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: 2.075 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

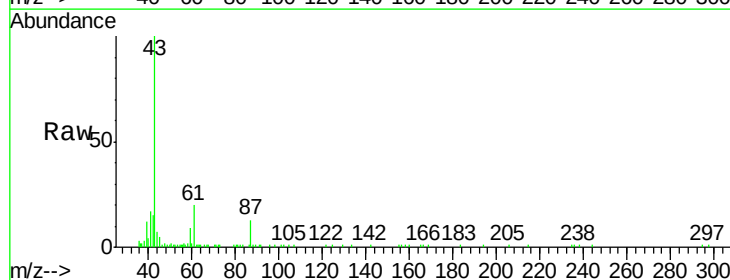
Tgt Ion: 43 Resp: 24385

Ion Ratio Lower Upper

43 100

61 23.7 16.8 25.2

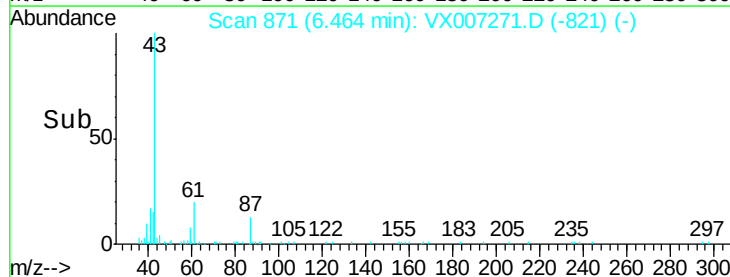
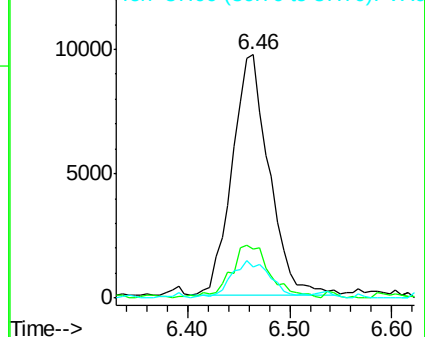
87 16.7 12.4 18.6

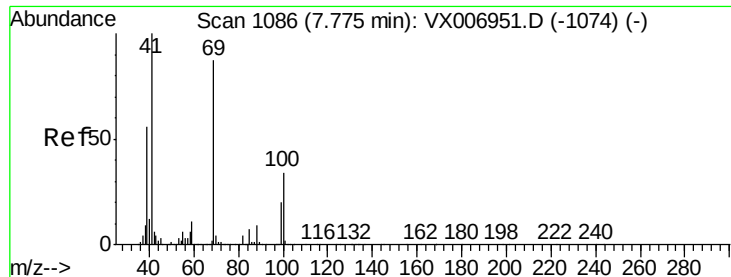


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

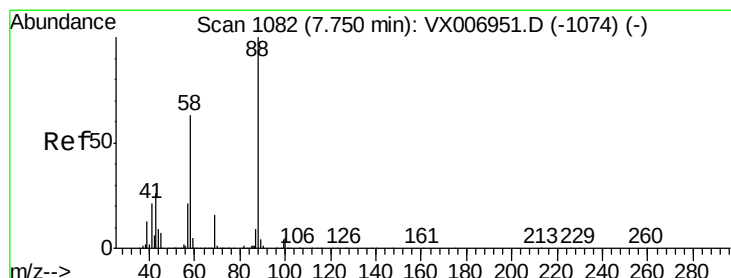
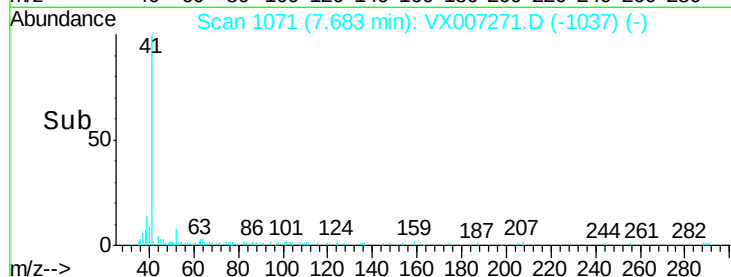
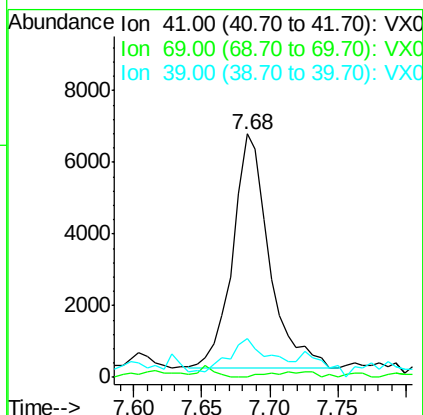
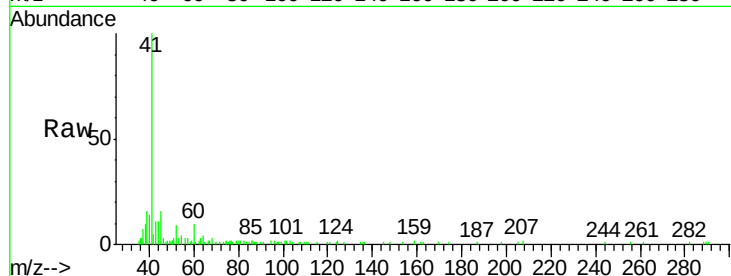




#48
Methvl methacrylate
Concen: 2.010 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

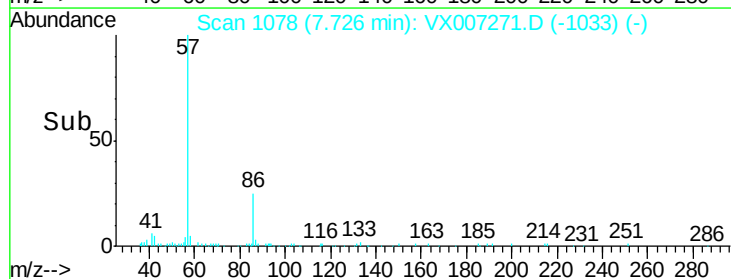
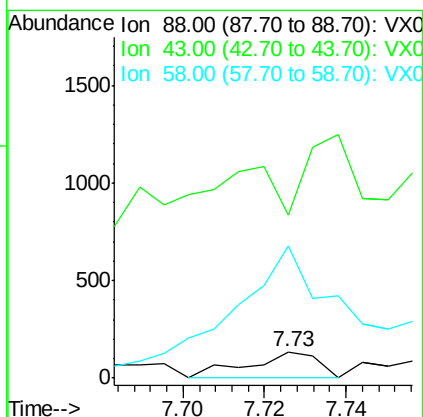
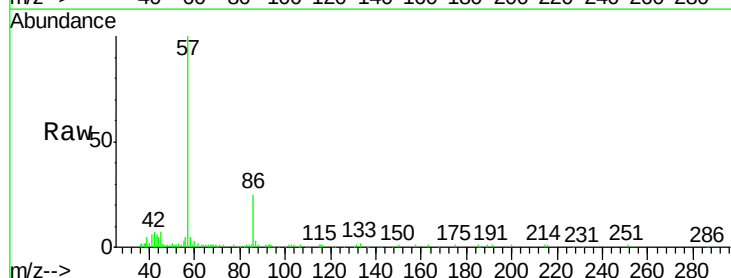
Instrument :
MSVOA_X
ClientSampled :
SOIL-1

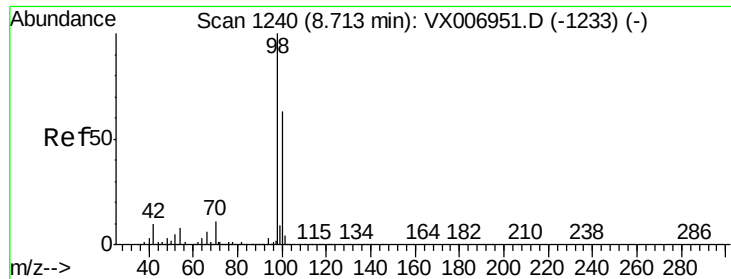
Tot Ion: 41 Resp: 12130
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.73 min Scan# 1078
Delta R.T. -0.02 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

Tgt Ion: 88 Resp: 161
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 655.3 51.0 76.4#





#50

Toluene-d8

Concen: 52.651 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

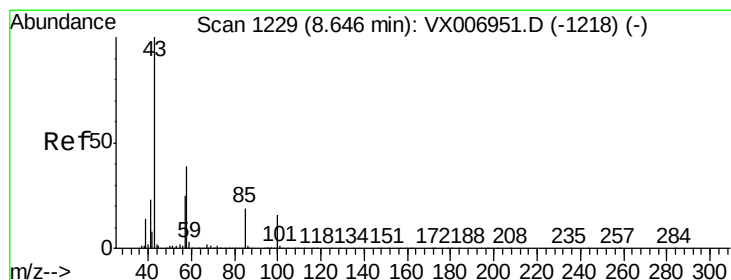
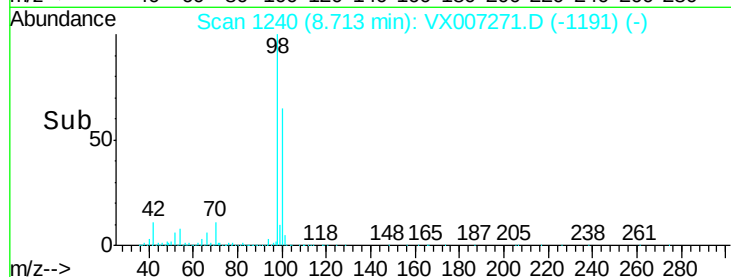
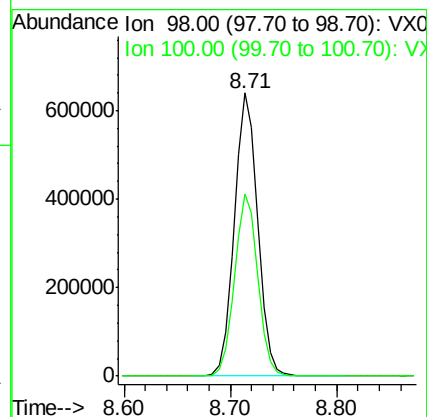
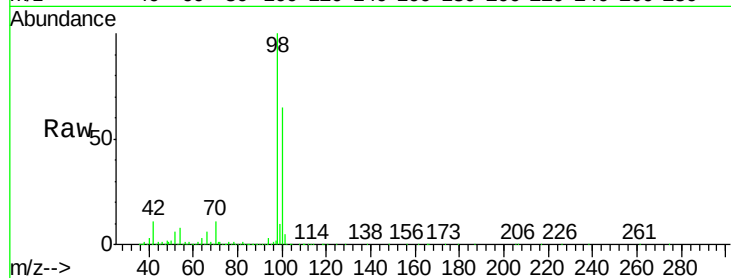
SOIL-1

Tot Ion: 98 Resp: 986232

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 17.518 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007271.D

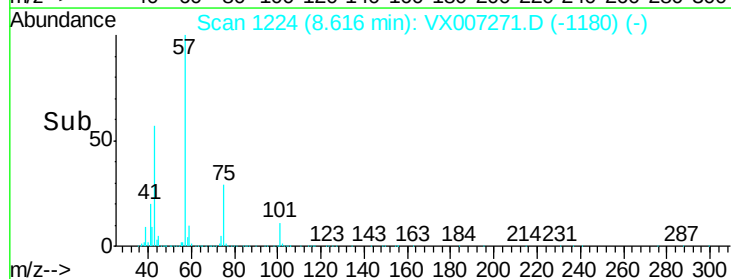
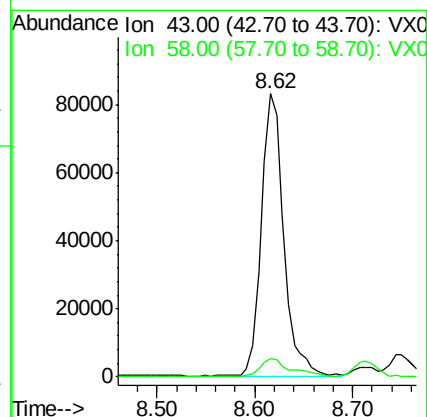
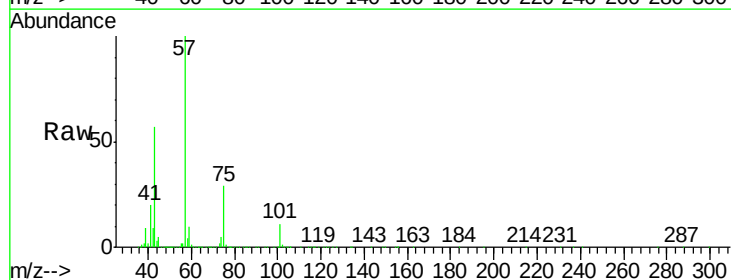
Acq: 28 Jan 2019 19:52

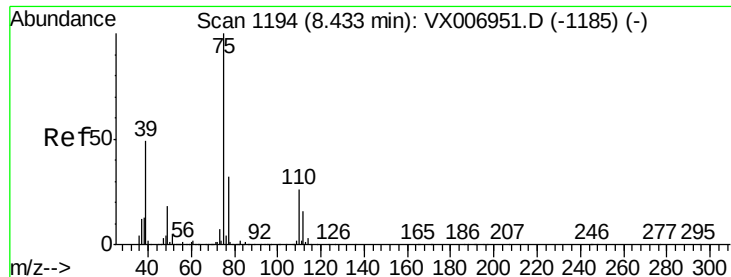
Tgt Ion: 43 Resp: 132270

Ion Ratio Lower Upper

43 100

58 8.9 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 8.174 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampled :

SOIL-1

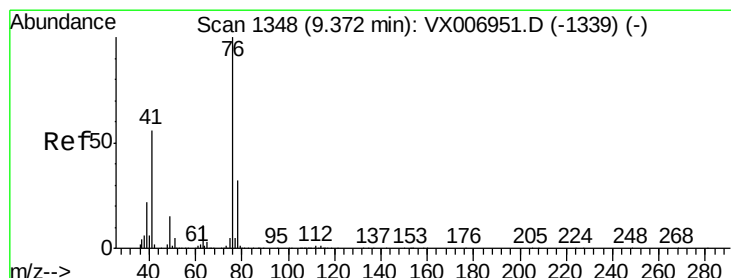
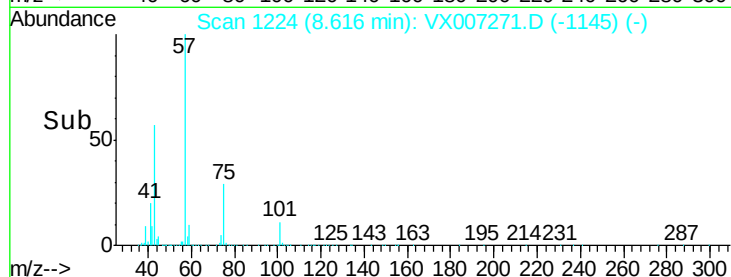
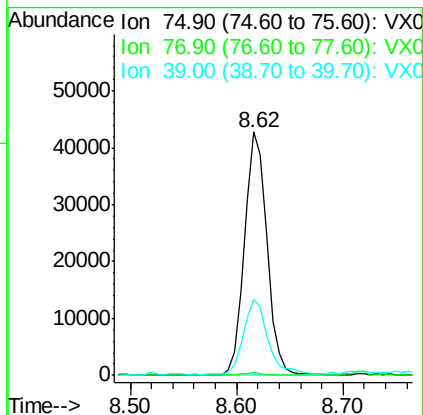
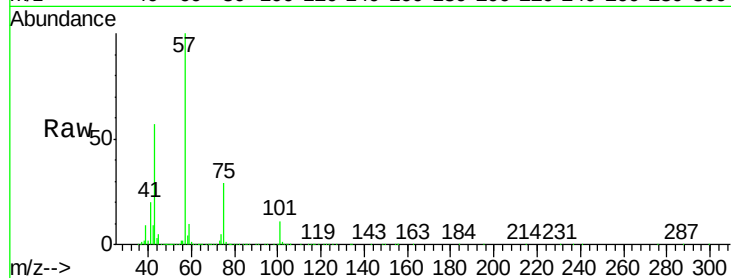
Tot Ion: 75 Resp: 63821

Ion Ratio Lower Upper

75 100

77 0.8 26.2 39.2#

39 31.2 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.606 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007271.D

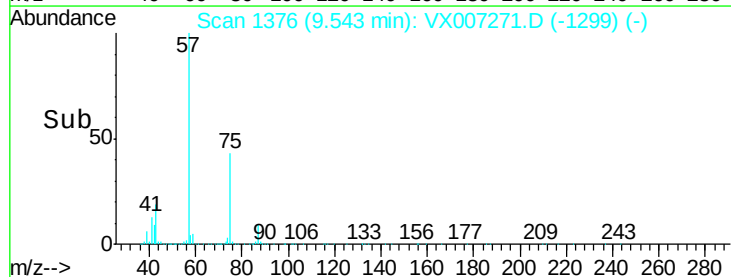
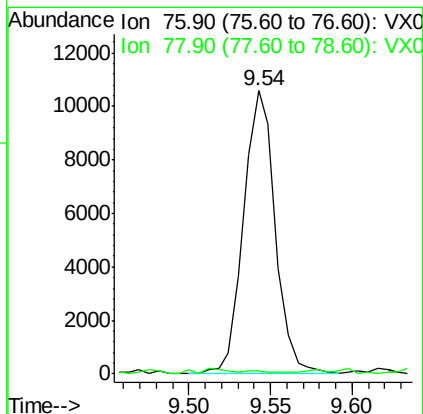
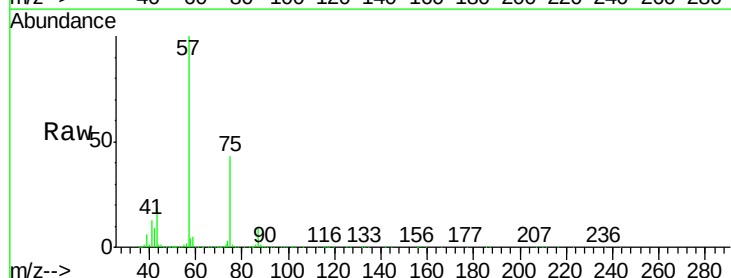
Acq: 28 Jan 2019 19:52

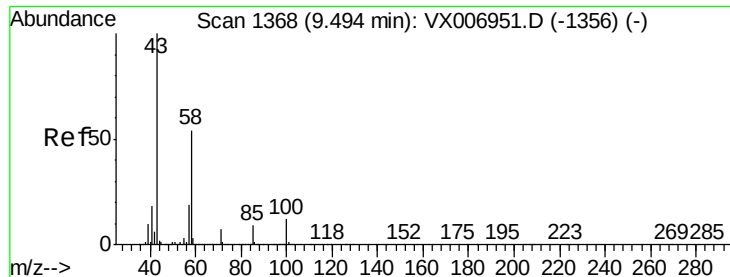
Tgt Ion: 76 Resp: 14345

Ion Ratio Lower Upper

76 100

78 1.2 26.0 39.0#

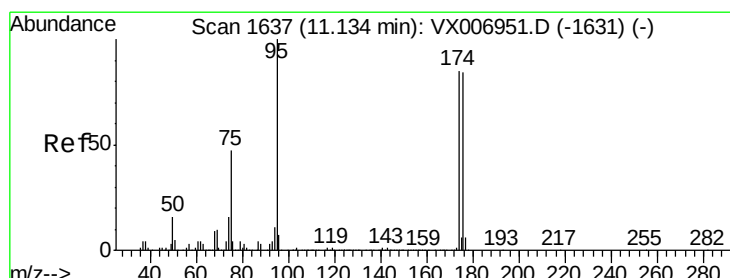
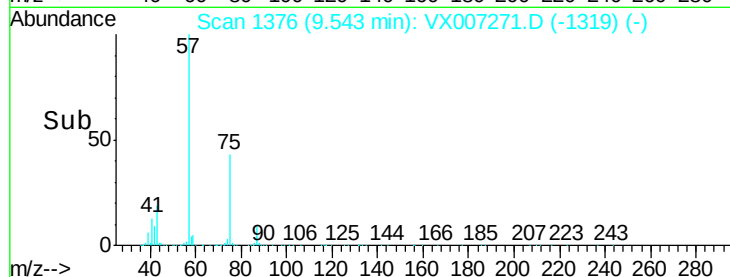
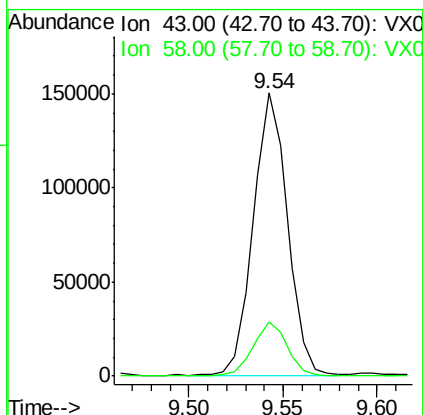
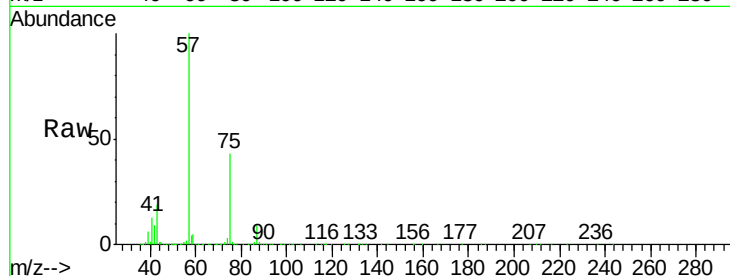




#59
2-Hexanone
Concen: 32.720 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

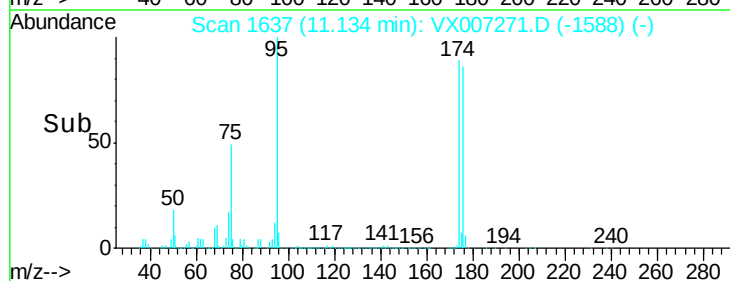
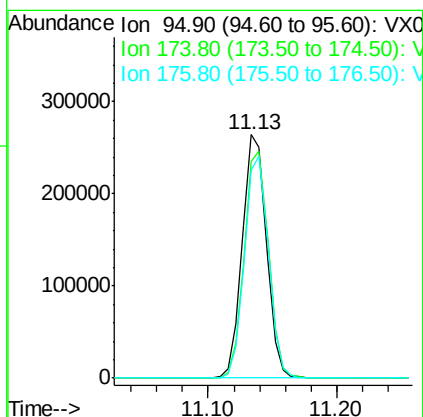
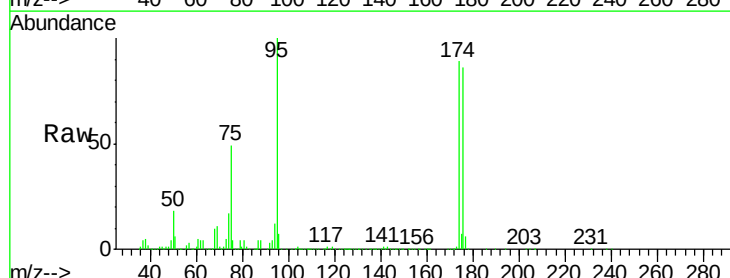
Instrument :
MSVOA_X
ClientSampleId :
SOIL-1

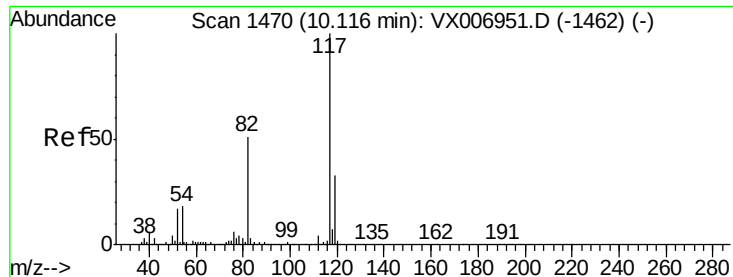
Tot Ion: 43 Resp: 188268
Ion Ratio Lower Upper
43 100
58 19.8 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 52.146 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

Tgt Ion: 95 Resp: 340525
Ion Ratio Lower Upper
95 100
174 93.9 0.0 182.2
176 90.5 0.0 178.8

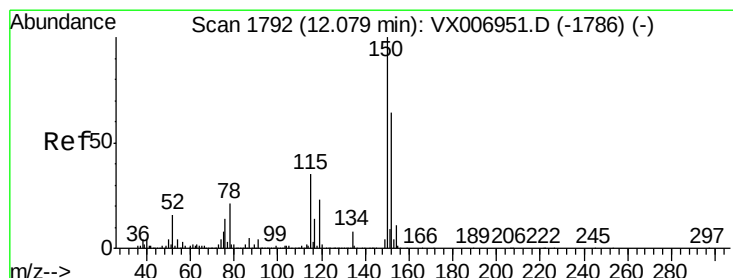
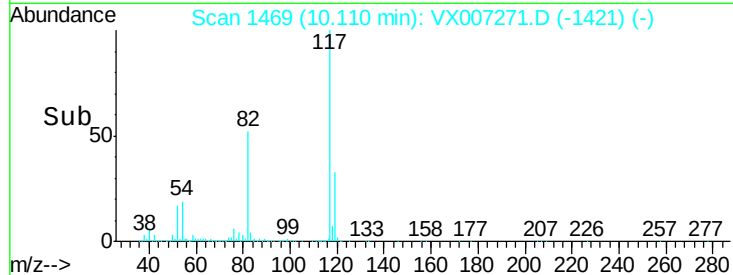
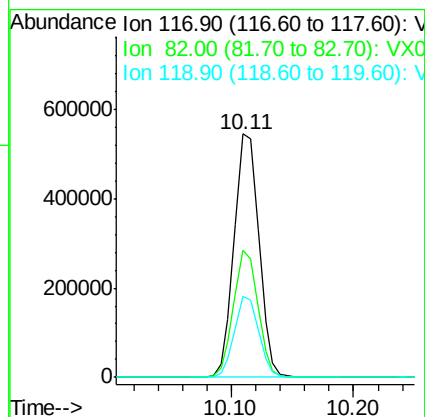
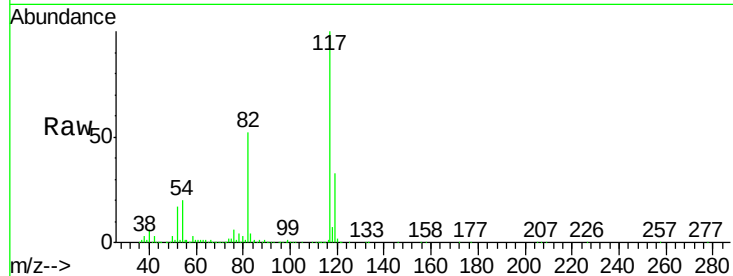




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

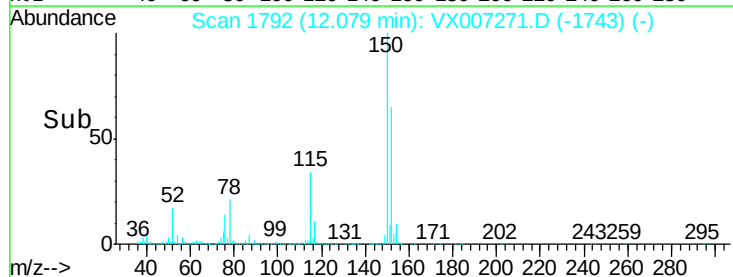
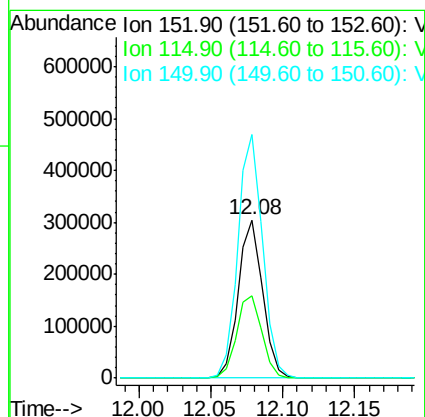
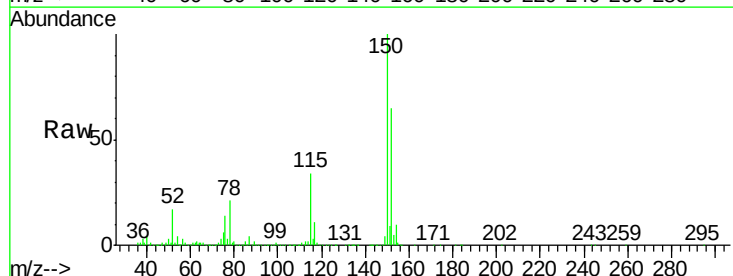
Instrument :
MSVOA_X
ClientSampleId :
SOIL-1

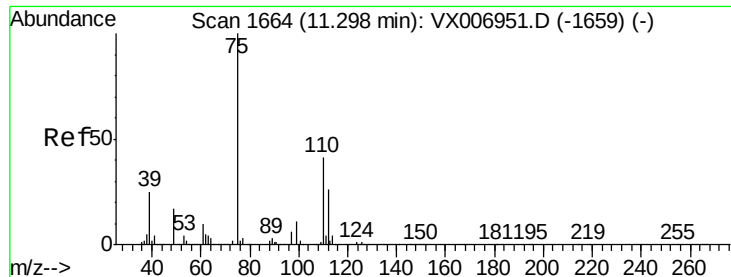
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.0	41.0	61.6
119	33.1	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007271.D
Acq: 28 Jan 2019 19:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.3	39.1	117.2
150	156.4	0.0	344.8





#76

1,2,3-Trichloropropane

Concen: 22.478 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampleId :

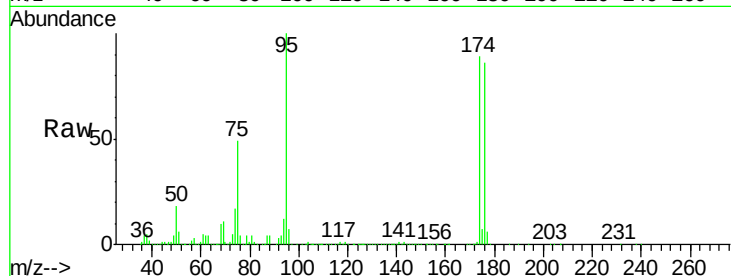
SOIL-1

Tot Ion: 75 Resp: 164332

Ion Ratio Lower Upper

75 100

77 1.4 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

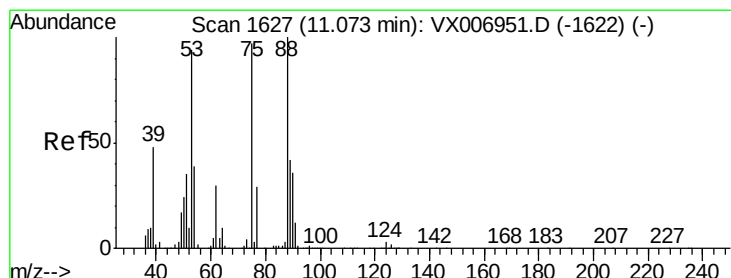
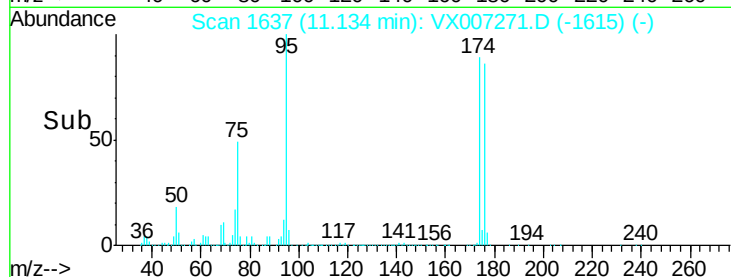
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 66.486 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

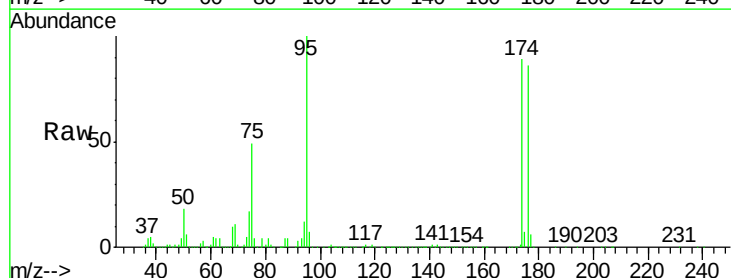
Tgt Ion: 75 Resp: 164332

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#



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

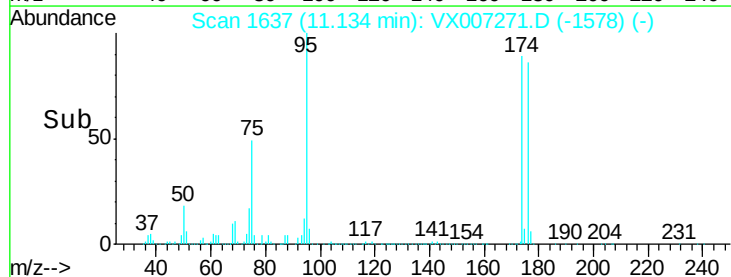
150000

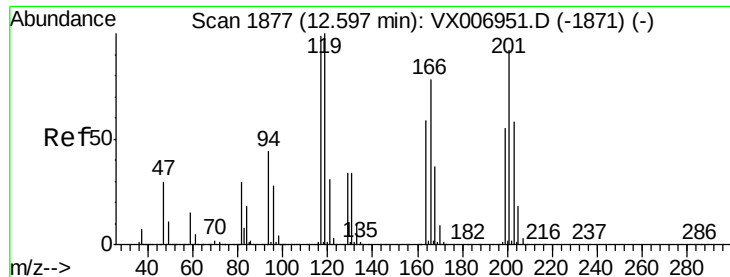
100000

50000

0

Time-->





#90

Hexachloroethane

Concen: 2.932 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

Instrument :

MSVOA_X

ClientSampled :

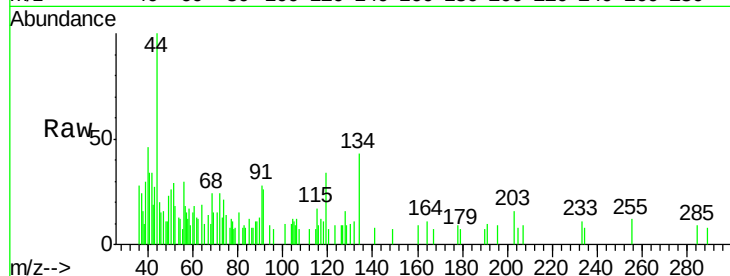
SOIL-1

Tot Ion:117 Resp: 91

Ion Ratio Lower Upper

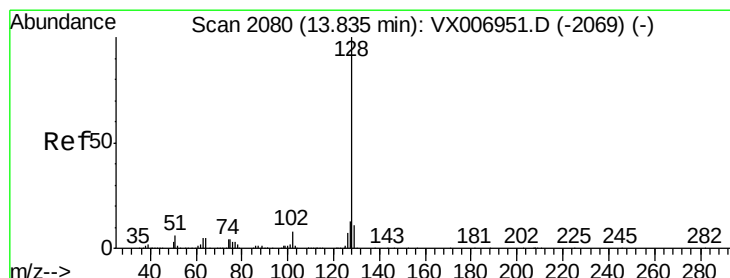
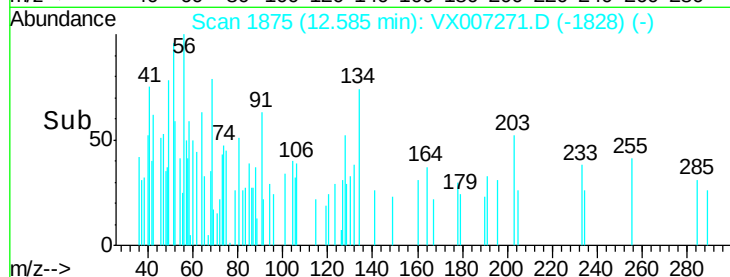
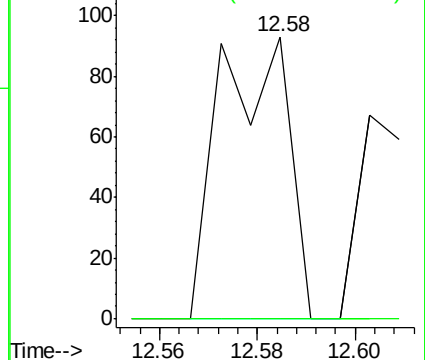
117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.550 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007271.D

Acq: 28 Jan 2019 19:52

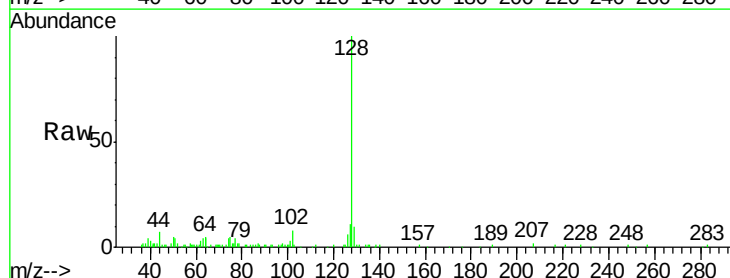
Tgt Ion:128 Resp: 14297

Ion Ratio Lower Upper

128 100

127 15.8 10.1 15.1#

129 12.2 8.6 13.0



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

