

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX101618\
 Data File : VX005366.D
 Acq On : 16 Oct 2018 14:09
 Operator : JC/MD
 Sample : J5524-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-1

Quant Time: Oct 17 04:56:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

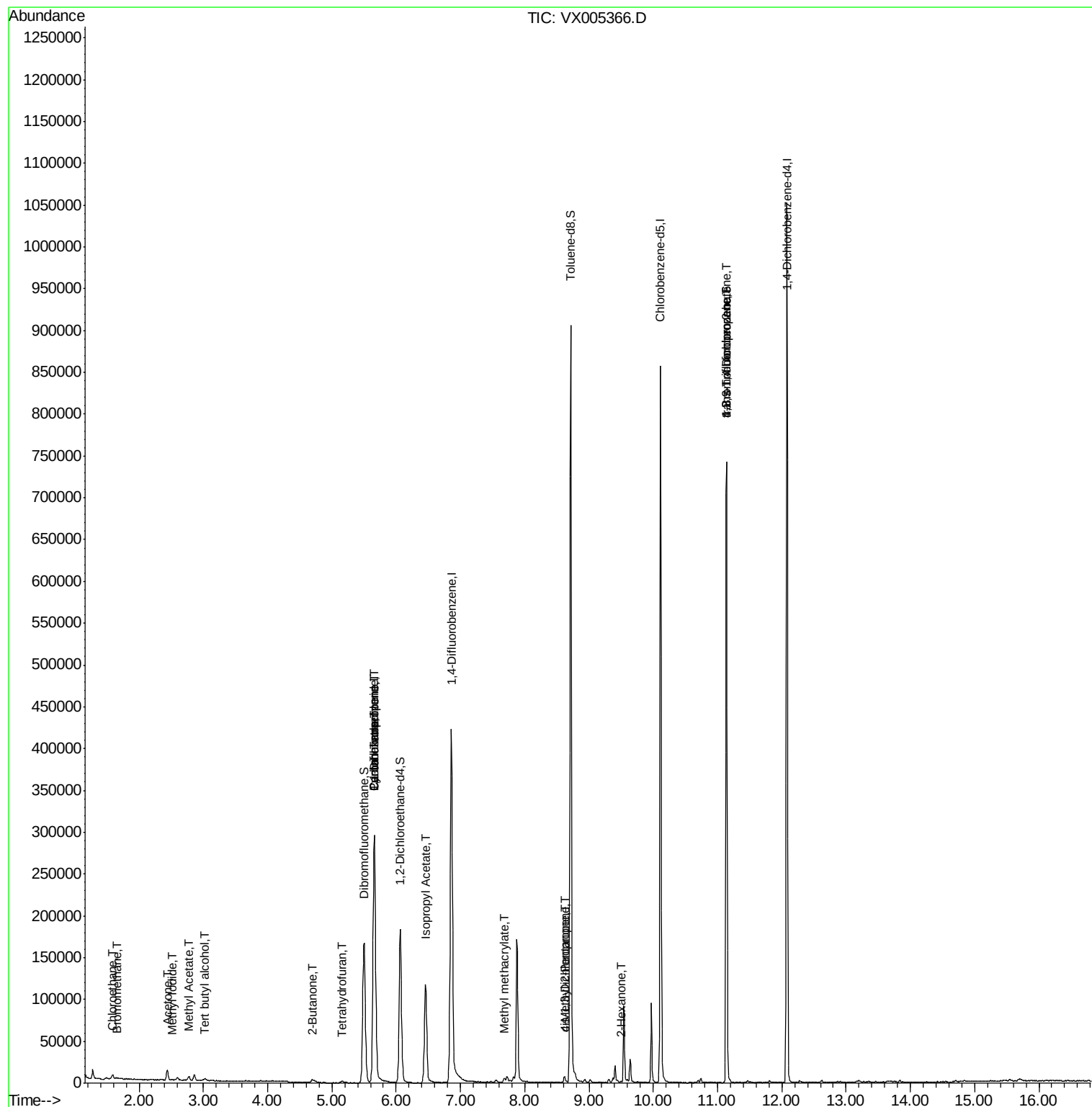
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	310609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	458844	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	425814	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	219224	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	176278	51.14	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	102.28%	
35) Dibromofluoromethane	5.49	113	142834	47.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.00%	
50) Toluene-d8	8.71	98	551052	52.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.64%	
62) 4-Bromofluorobenzene	11.14	95	193365	49.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.68%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.66	94	480	0.820	ug/l #	58
6) Chloroethane	1.58	64	3921	2.020	ug/l #	60
10) Methyl Iodide	2.52	142	122	2.527	ug/l #	74
11) Tert butyl alcohol	3.02	59	2042	2.100	ug/l #	82
13) Acrolein	2.28	56	44	Below Cal	#	16
16) Acetone	2.43	43	13401	6.723	ug/l	97
18) Methyl Acetate	2.78	43	5896	1.040	ug/l	95
20) Methylene Chloride	2.85	84	2713	Below Cal		95
25) 2-Butanone	4.70	43	6114	2.097	ug/l	97
29) Tetrahydrofuran	5.16	42	1660	0.892	ug/l #	80
31) Cyclohexane	5.66	56	5324	1.124	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20714	4.661	ug/l #	50
38) Carbon Tetrachloride	5.65	117	27890	6.246	ug/l #	15
43) Isopropyl Acetate	6.46	43	167360	21.984	ug/l	97
44) Trichloroethene	7.21	130	19	Below Cal		9
48) Methyl methacrylate	7.68	41	6938	1.757	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2385	0.452	ug/l #	83
54) cis-1,3-Dichloropropene	8.62	75	1119	0.239	ug/l #	75
59) 2-Hexanone	9.49	43	964	0.227	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	94306	22.178	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	94306	67.386	ug/l #	10

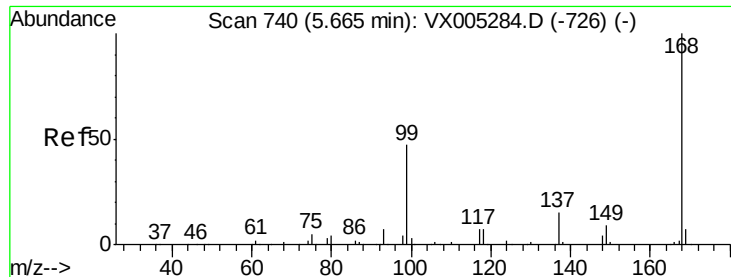
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

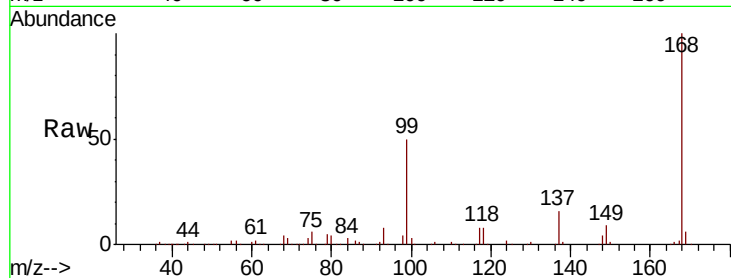
BS-SOIL-1

Tgt Ion:168 Resp: 310609

Ion Ratio Lower Upper

168 100

99 50.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VX005284.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX005284.D (-726) (-)

5.66

120000

100000

80000

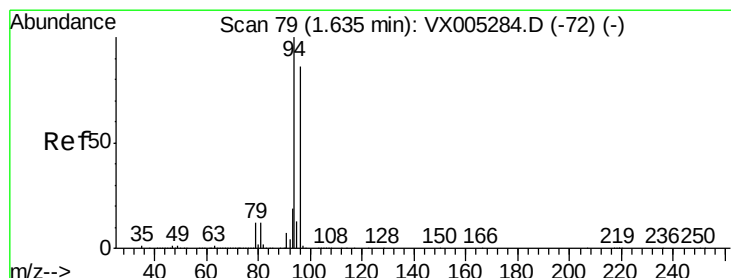
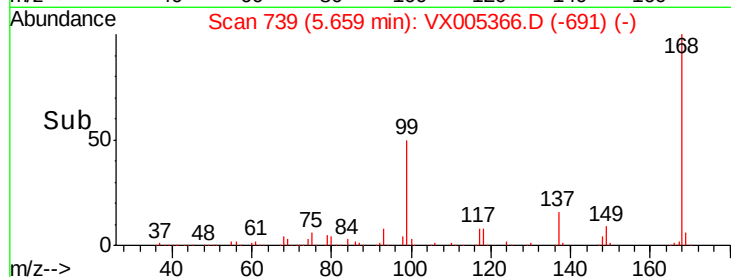
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.820 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX005366.D

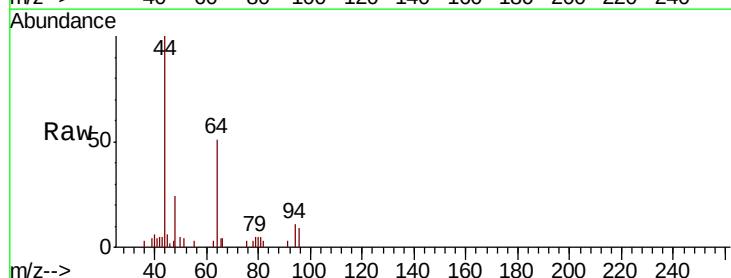
Acq: 16 Oct 2018 14:09

Tgt Ion: 94 Resp: 480

Ion Ratio Lower Upper

94 100

96 53.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX005284.D (-72) (-)

Ion 95.90 (95.60 to 96.60): VX005284.D (-72) (-)

1.66

250

200

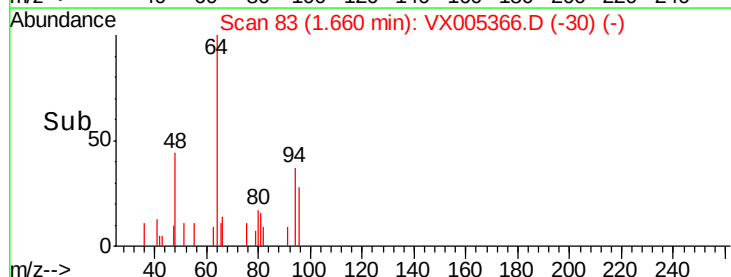
150

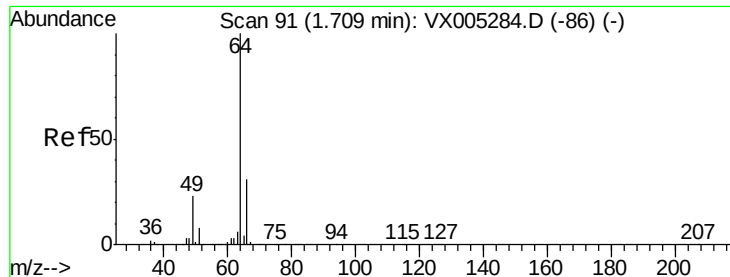
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 2.020 ug/l

RT: 1.58 min Scan# 70

Delta R.T. -0.13 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

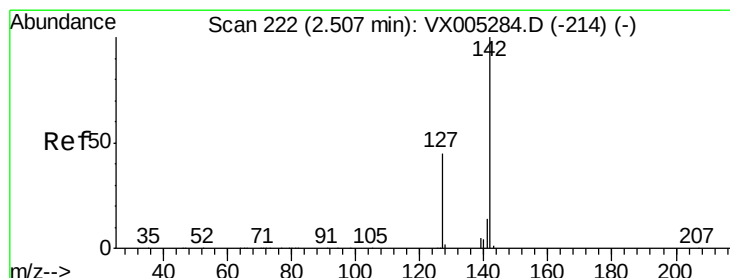
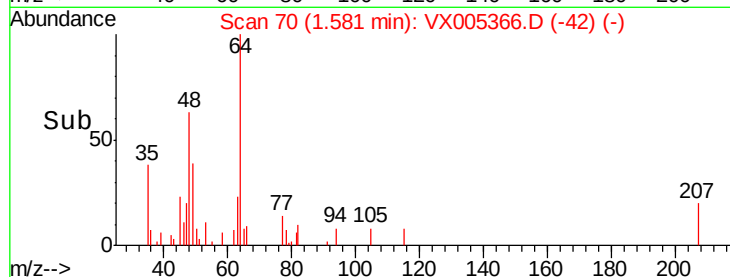
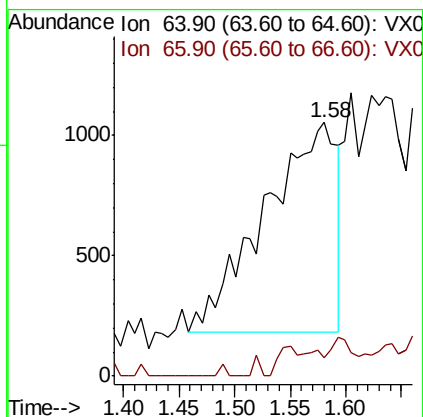
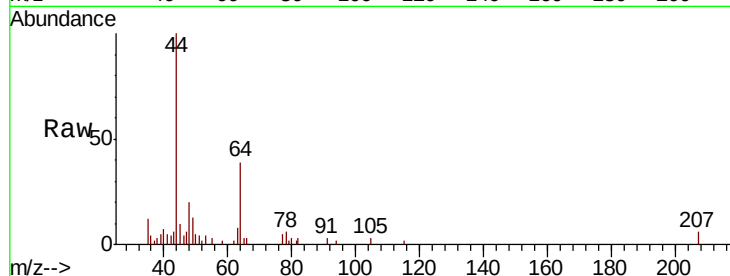
BS-SOIL-1

Tgt Ion: 64 Resp: 3921

Ion Ratio Lower Upper

64 100

66 8.8 24.6 36.8#



#10

Methyl Iodide

Concen: 2.527 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

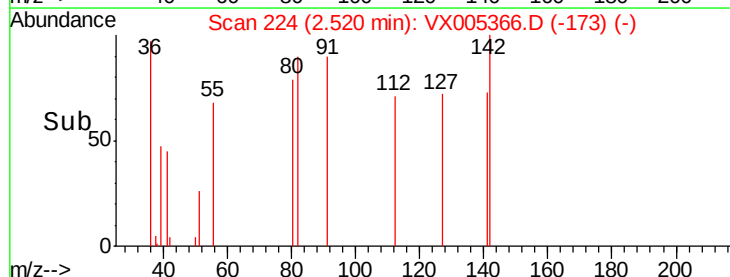
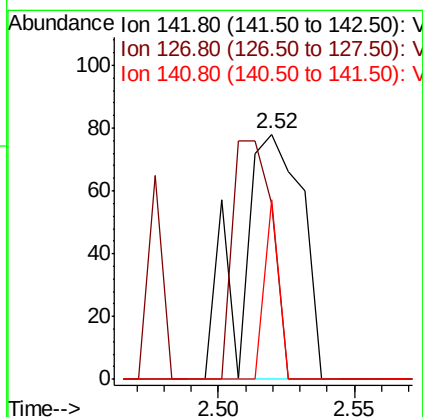
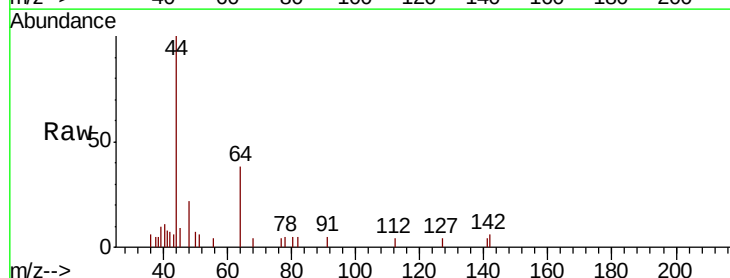
Tgt Ion: 142 Resp: 122

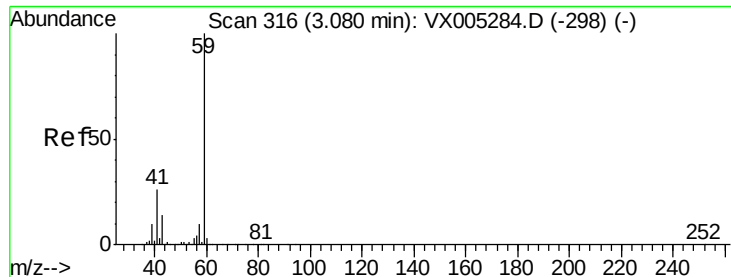
Ion Ratio Lower Upper

142 100

127 62.3 33.8 50.6#

141 17.2 11.4 17.0#

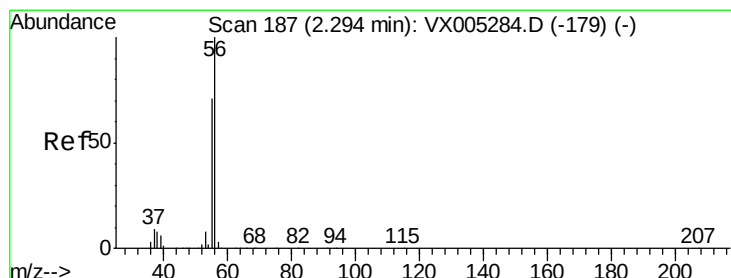
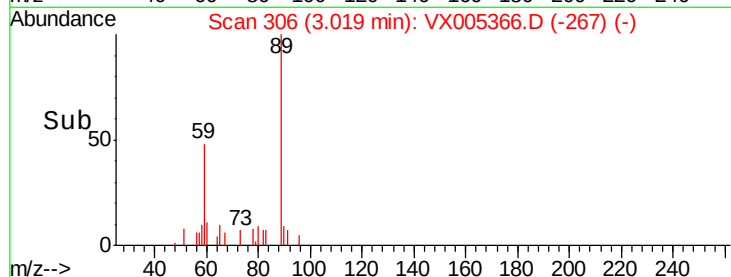
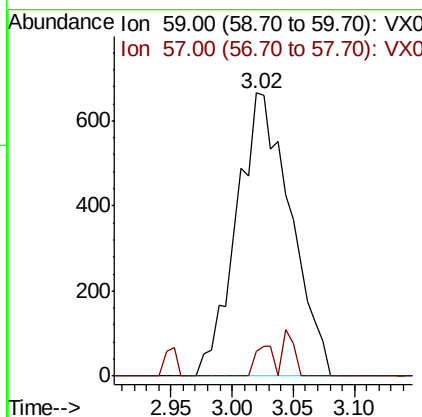
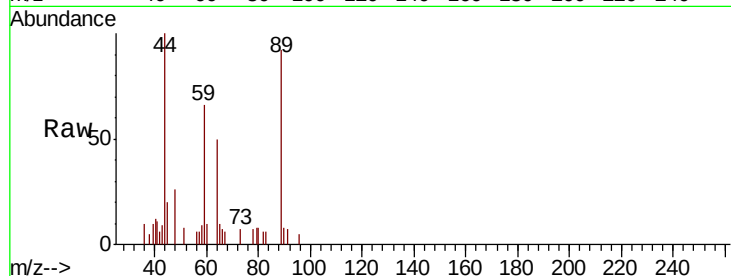




#11
Tert butyl alcohol
Concen: 2.100 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

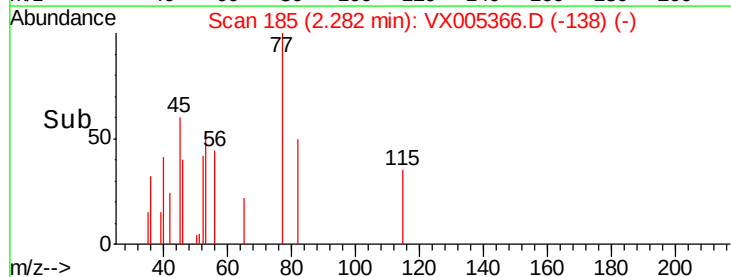
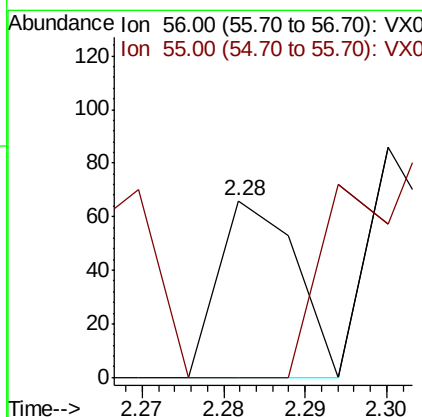
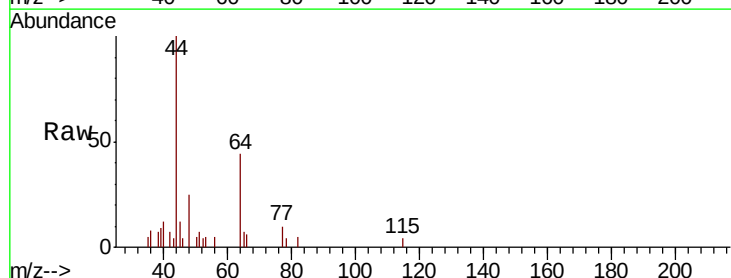
Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-1

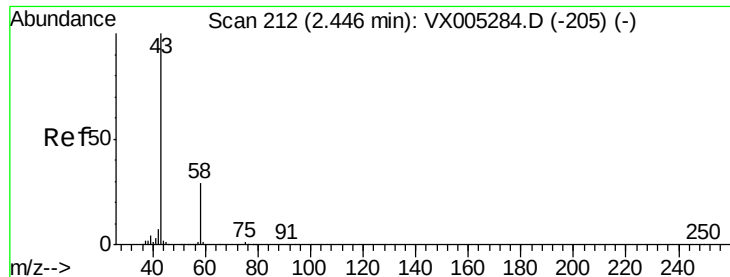
Tgt Ion: 59 Resp: 2042
Ion Ratio Lower Upper
59 100
57 3.6 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

Tgt Ion: 56 Resp: 44
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#





#16

Acetone

Concen: 6.723 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.01 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

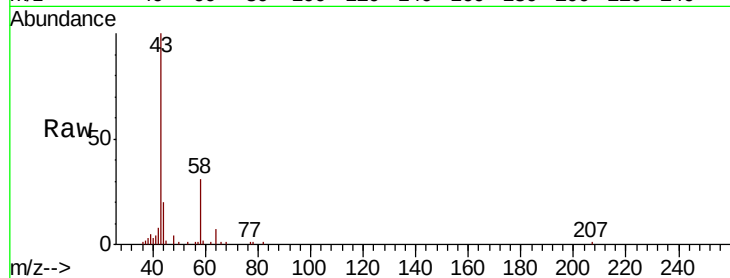
BS-SOIL-1

Tgt Ion: 43 Resp: 13401

Ion Ratio Lower Upper

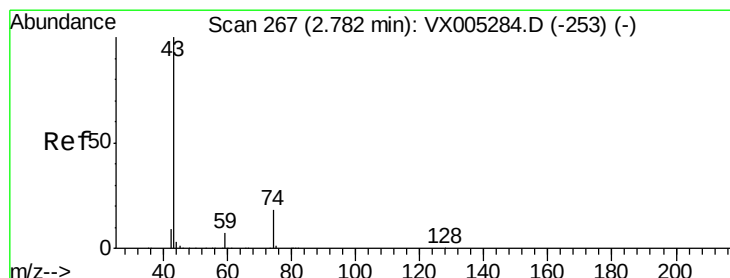
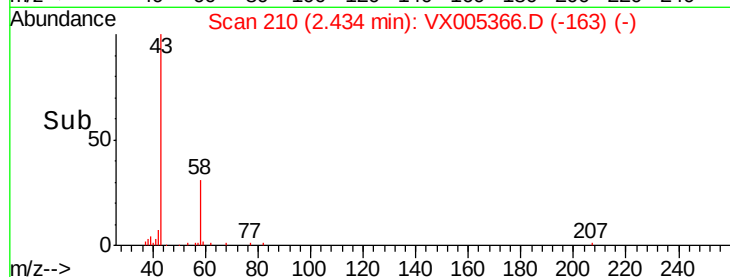
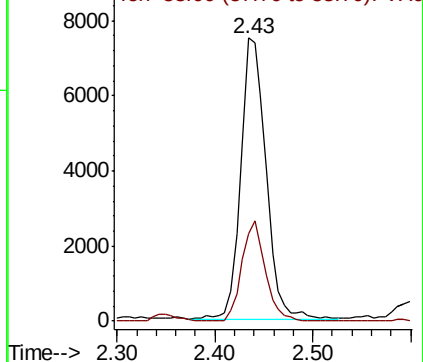
43 100

58 31.3 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.040 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005366.D

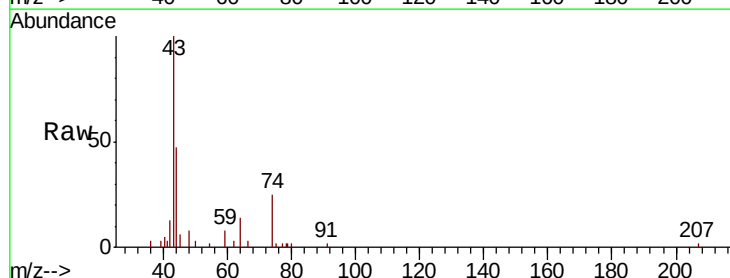
Acq: 16 Oct 2018 14:09

Tgt Ion: 43 Resp: 5896

Ion Ratio Lower Upper

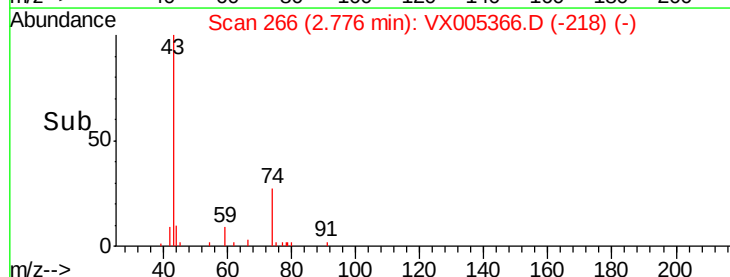
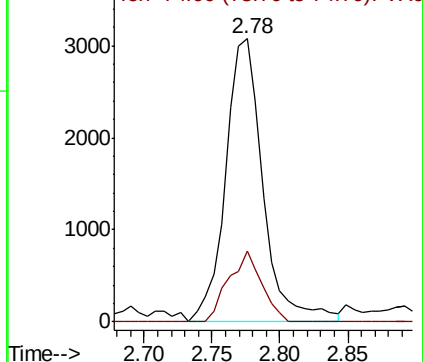
43 100

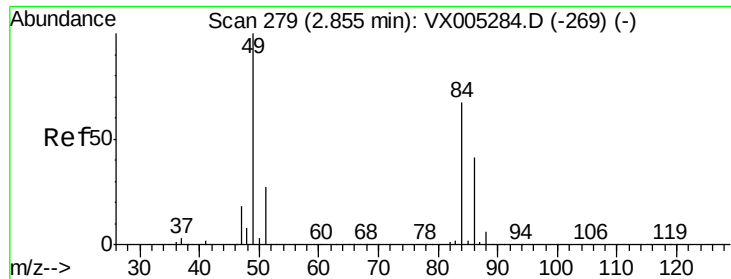
74 22.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

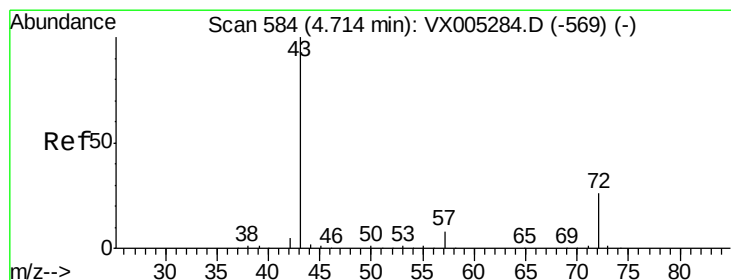
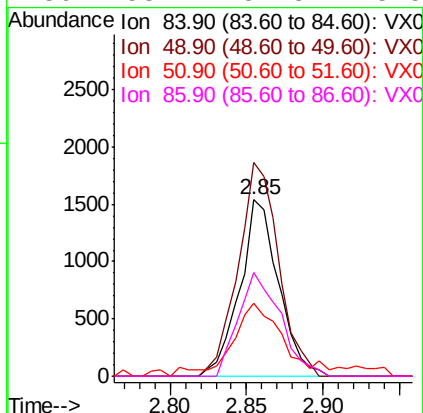
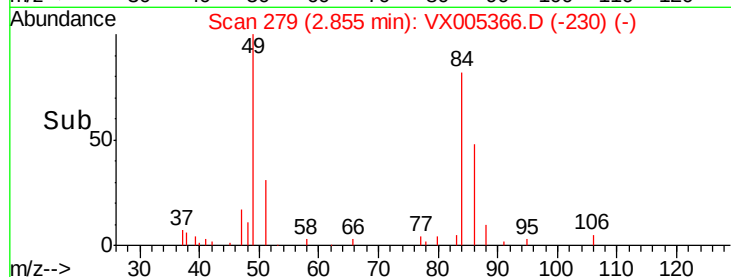
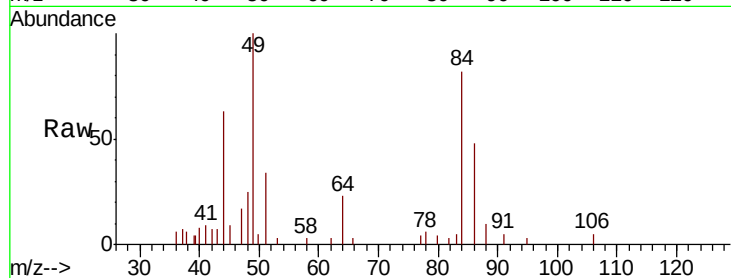




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

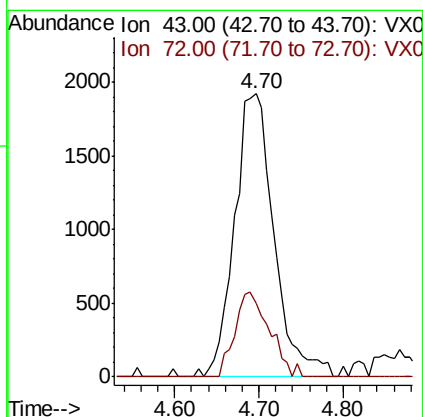
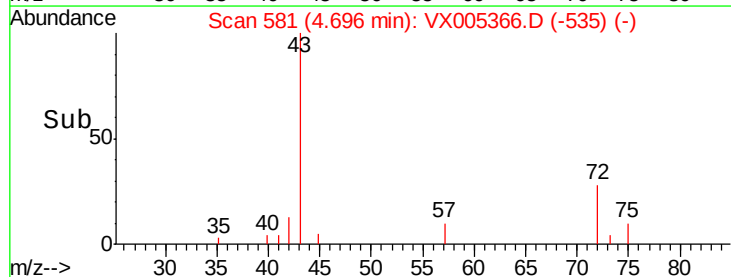
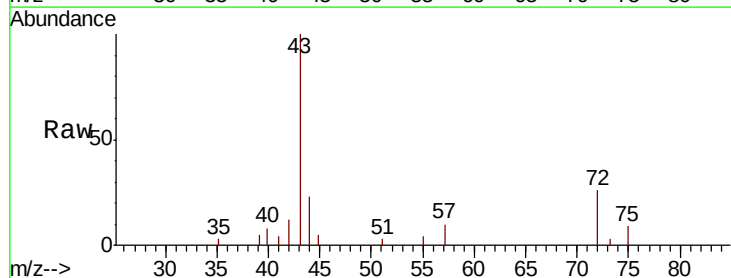
Instrument :
MSVOA_X
ClientSampled :
BS-SOIL-1

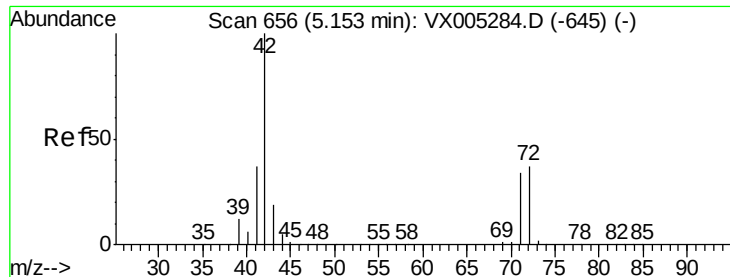
Tgt Ion:	84	Resp:	2713
Ion	Ratio	Lower	Upper
84	100		
49	121.4	101.2	151.8
51	38.4	29.5	44.3
86	58.7	52.3	78.5



#25
2-Butanone
Concen: 2.097 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.02 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

Tgt Ion:	43	Resp:	6114
Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.0	33.0

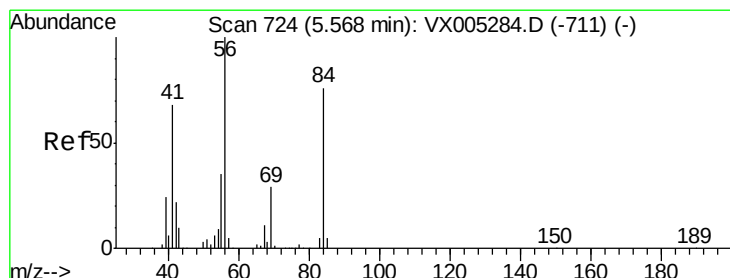
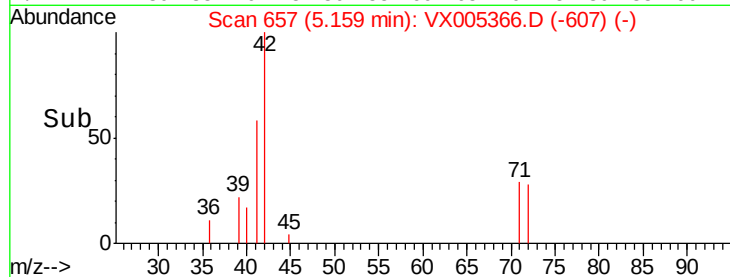
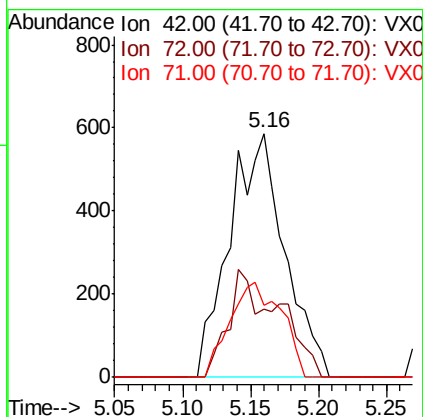
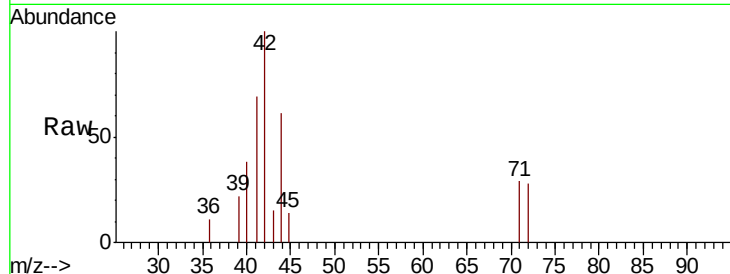




#29
Tetrahydrofuran
Concen: 0.892 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

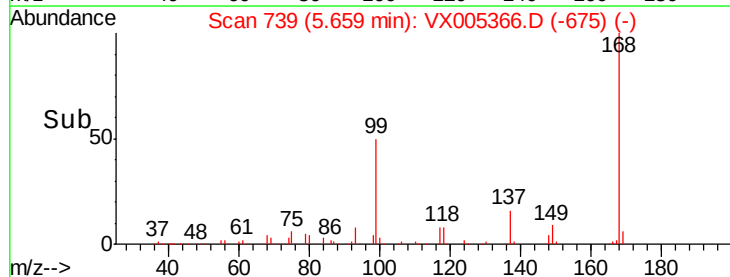
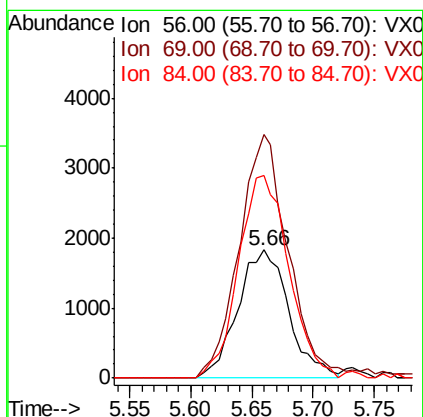
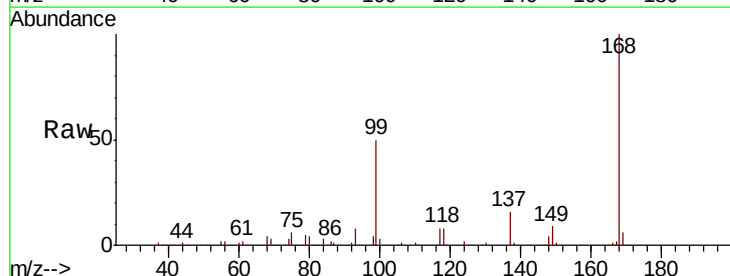
Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-1

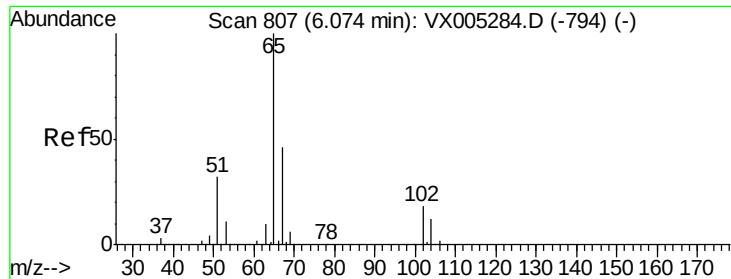
Tgt Ion: 42 Resp: 1660
Ion Ratio Lower Upper
42 100
72 27.4 37.4 56.0#
71 36.3 34.5 51.7



#31
Cyclohexane
Concen: 1.124 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

Tgt Ion: 56 Resp: 5324
Ion Ratio Lower Upper
56 100
69 190.0 25.4 38.2#
84 157.9 71.4 107.2#

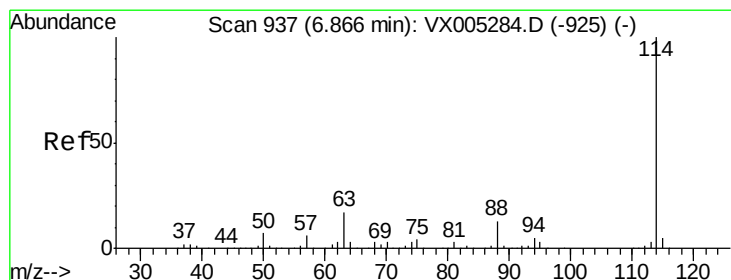
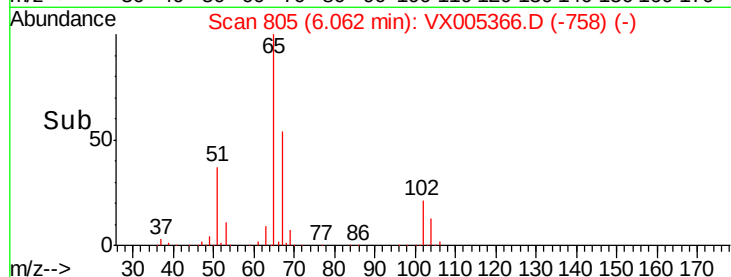
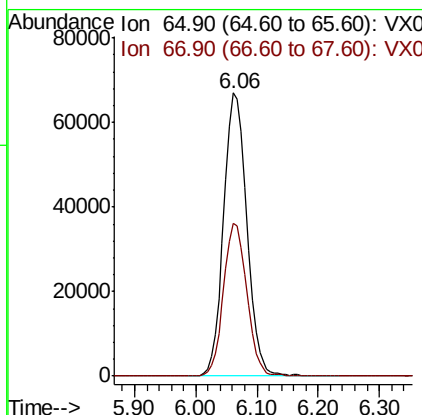
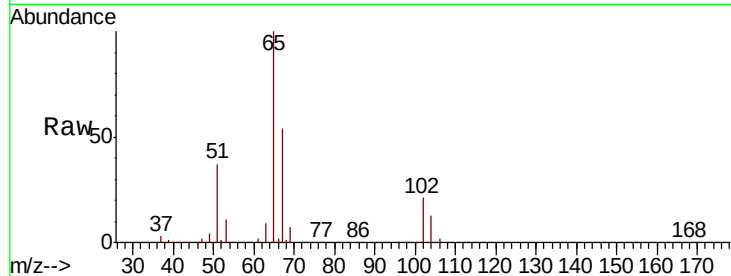




#33
 1,2-Dichloroethane-d4
 Concen: 51.135 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX005366.D
 Acq: 16 Oct 2018 14:09

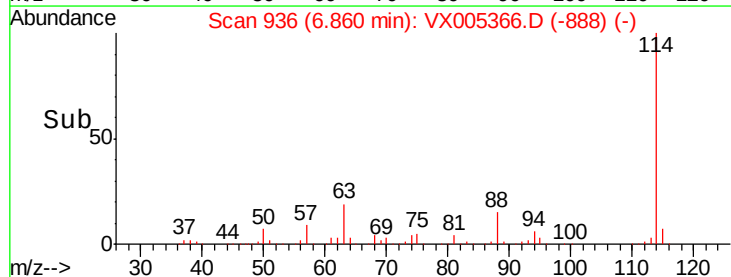
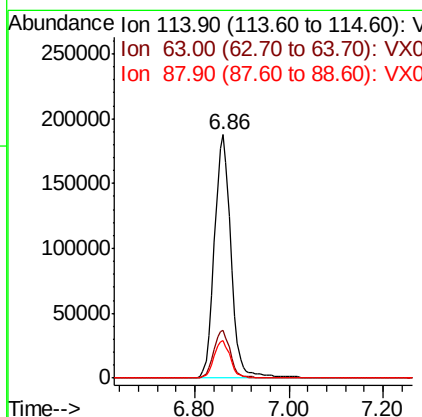
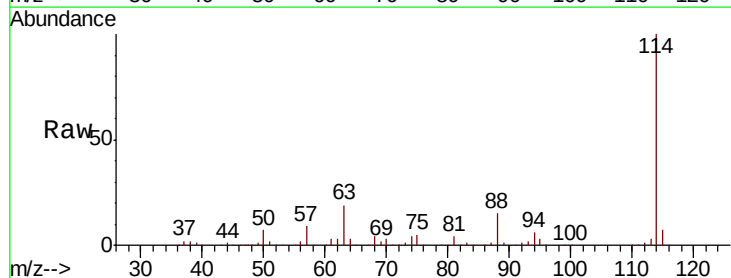
Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-1

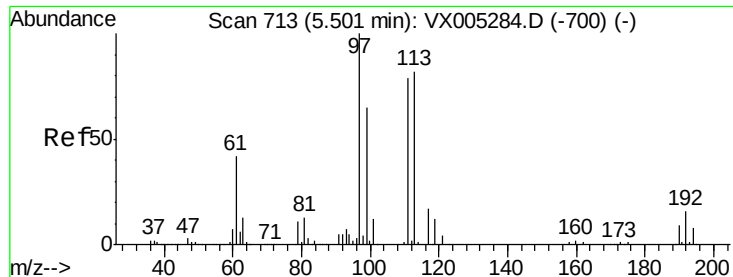
Tgt Ion: 65 Resp: 176278
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005366.D
 Acq: 16 Oct 2018 14:09

Tgt Ion: 114 Resp: 458844
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.0
 88 15.4 0.0 30.4





#35

Dibromofluoromethane

Concen: 47.000 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-1

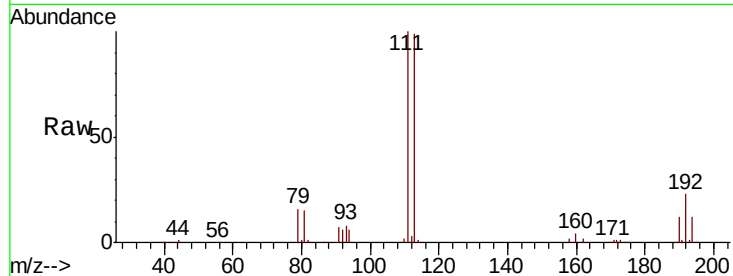
Tgt Ion:113 Resp: 142834

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

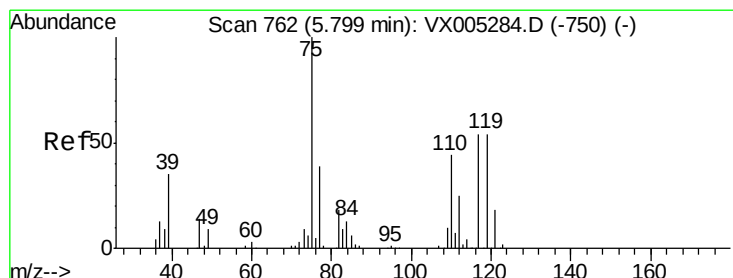
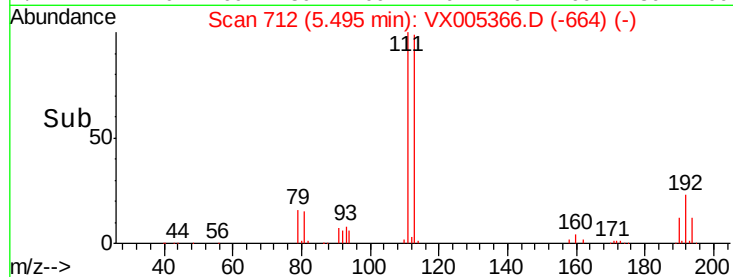
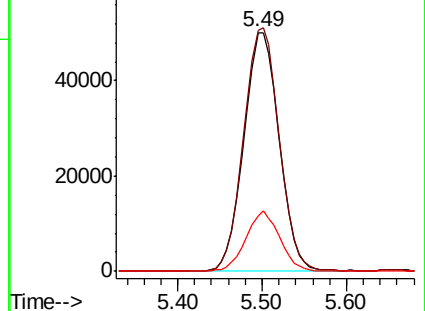
192 24.1 19.4 29.2



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: 4.661 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

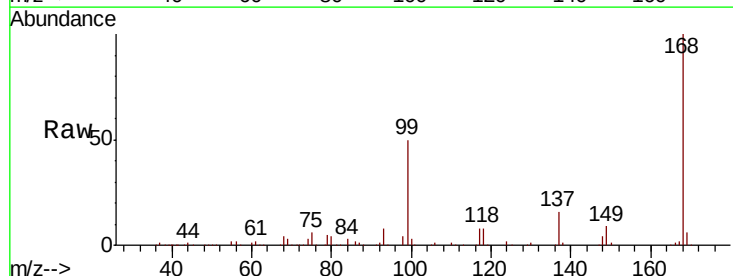
Tgt Ion: 75 Resp: 20714

Ion Ratio Lower Upper

75 100

110 9.2 18.0 54.0#

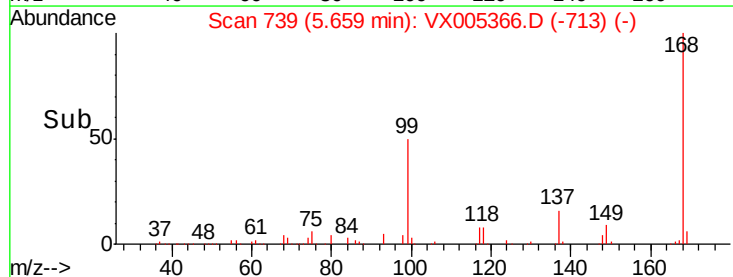
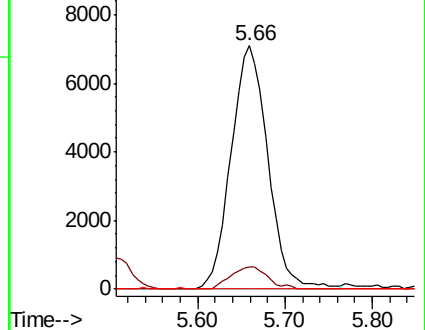
77 0.0 24.6 36.8#

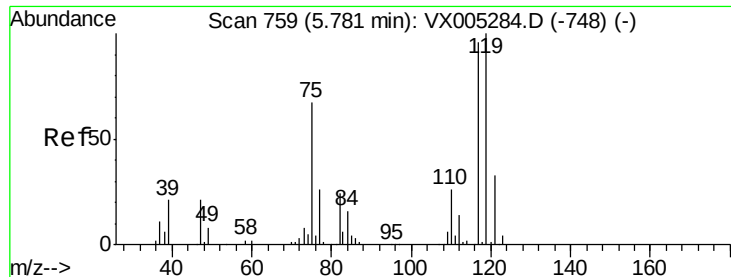


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.246 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampled :

BS-SOIL-1

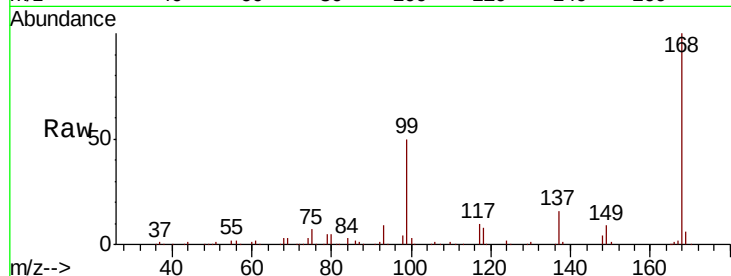
Tgt Ion:117 Resp: 27890

Ion Ratio Lower Upper

117 100

119 5.0 78.8 118.2#

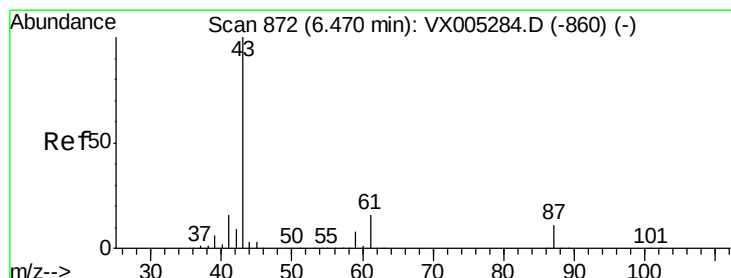
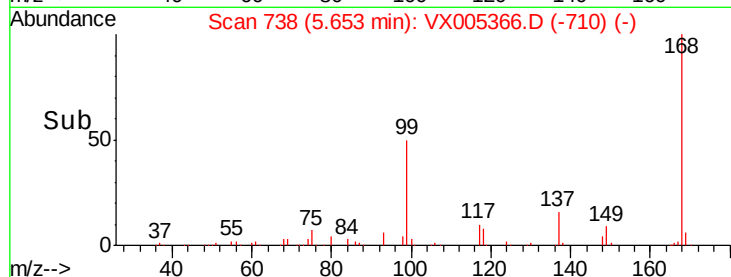
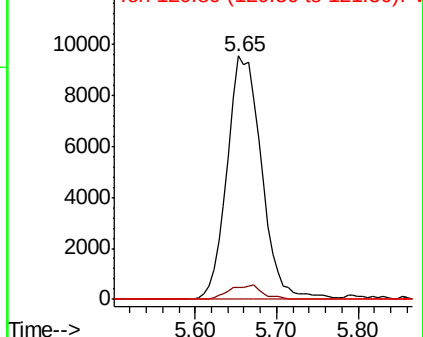
121 0.0 24.9 37.3#



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: 21.984 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

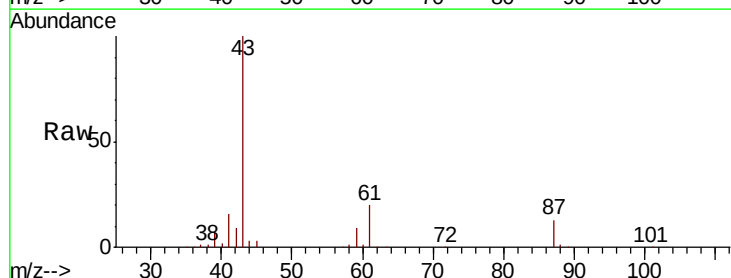
Tgt Ion: 43 Resp: 167360

Ion Ratio Lower Upper

43 100

61 19.6 17.0 25.4

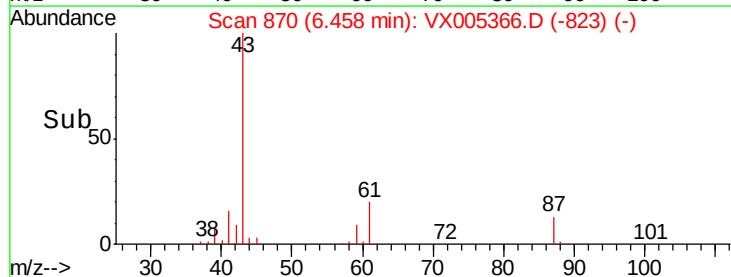
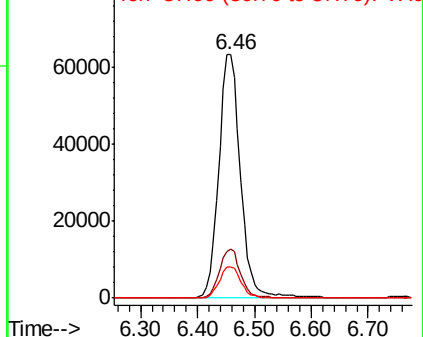
87 12.9 11.4 17.2

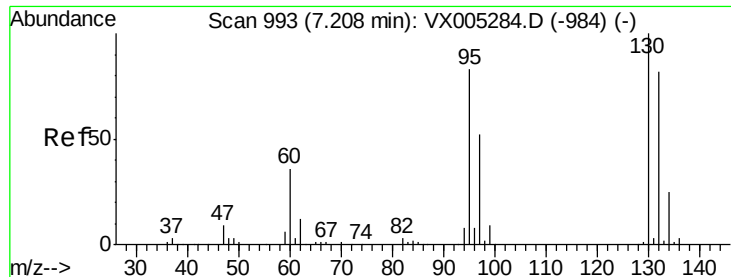


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

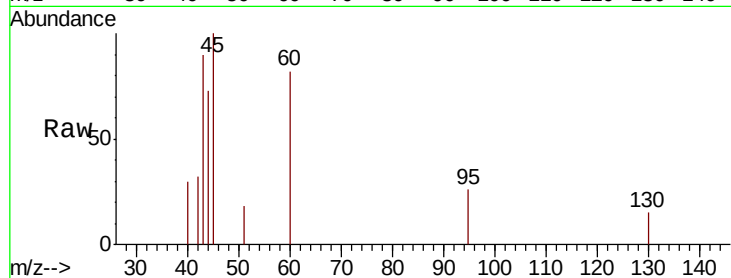
BS-SOIL-1

Tgt Ion:130 Resp: 19

Ion Ratio Lower Upper

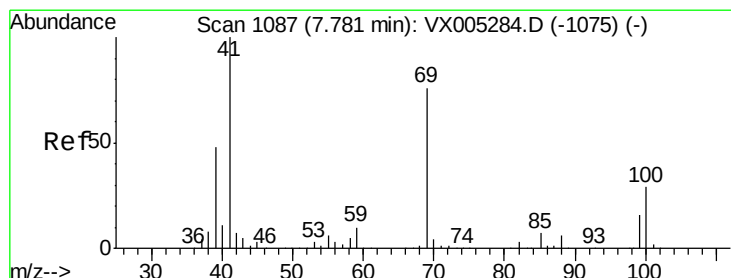
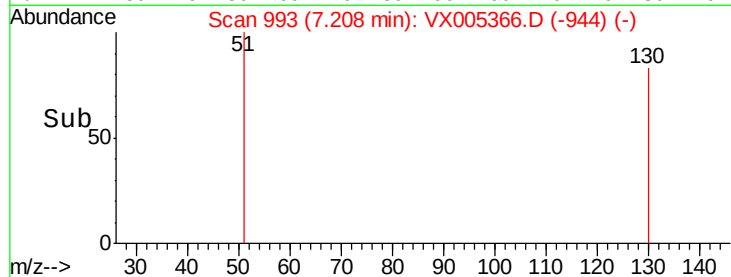
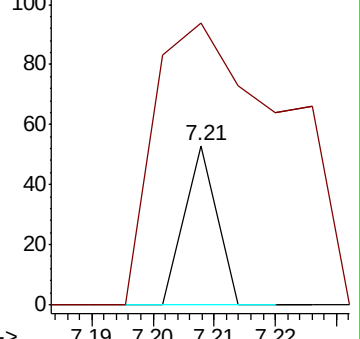
130 100

95 177.4 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 1.757 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

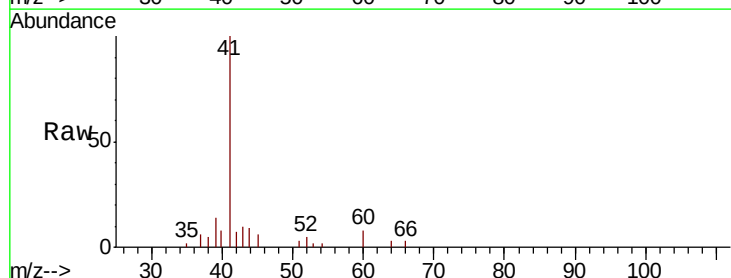
Tgt Ion: 41 Resp: 6938

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

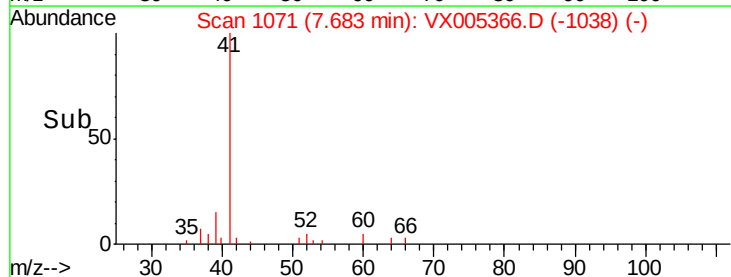
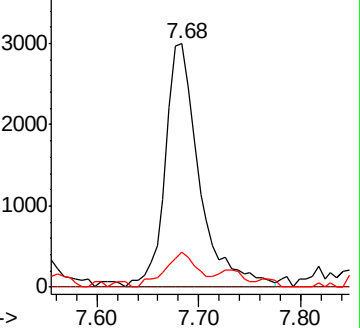
39 13.9 42.7 64.1#

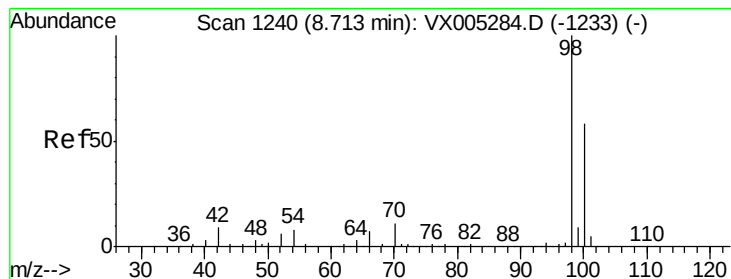


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 52.817 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

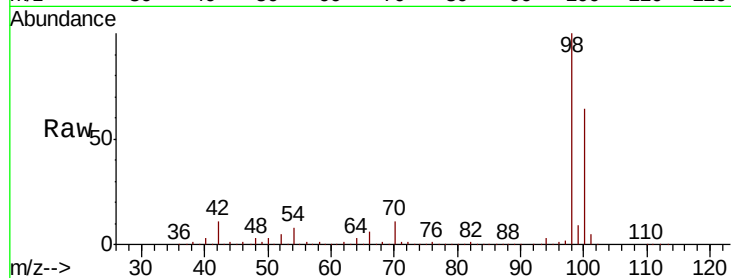
BS-SOIL-1

Tgt Ion: 98 Resp: 551052

Ion Ratio Lower Upper

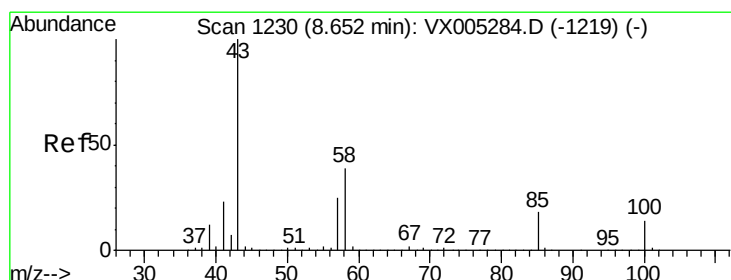
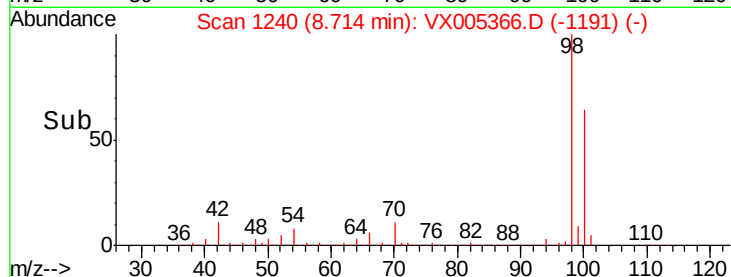
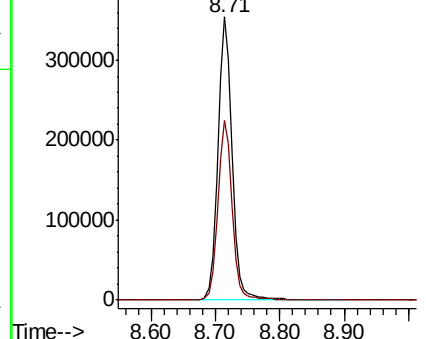
98 100

100 63.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.452 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005366.D

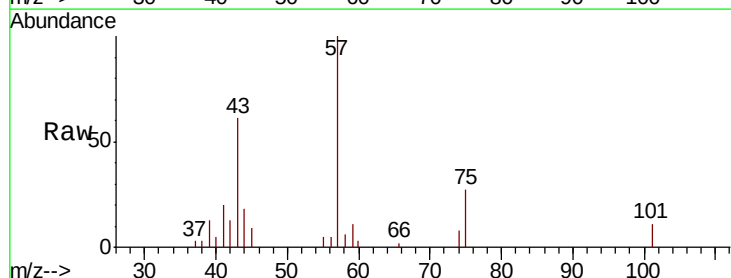
Acq: 16 Oct 2018 14:09

Tgt Ion: 43 Resp: 2385

Ion Ratio Lower Upper

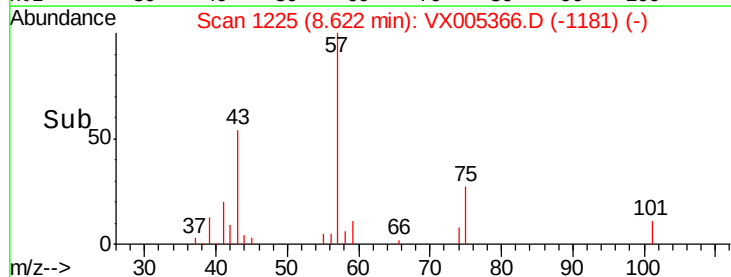
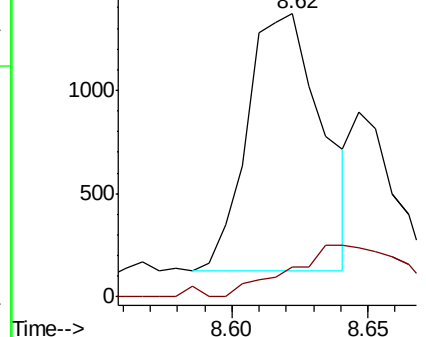
43 100

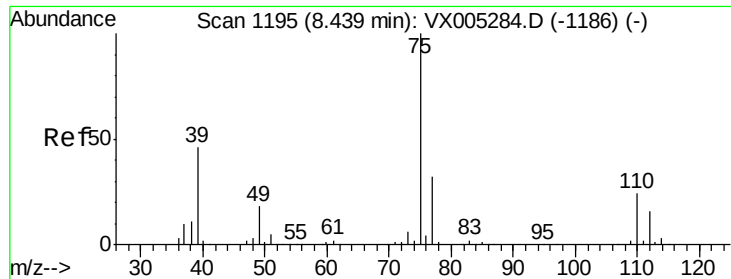
58 30.4 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 0.239 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-1

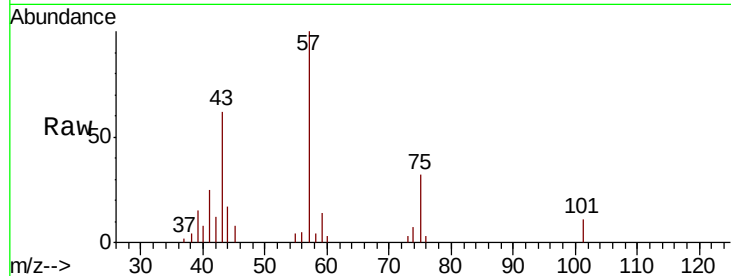
Tgt Ion: 75 Resp: 1119

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

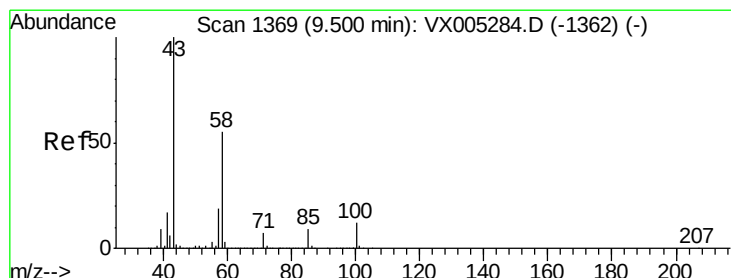
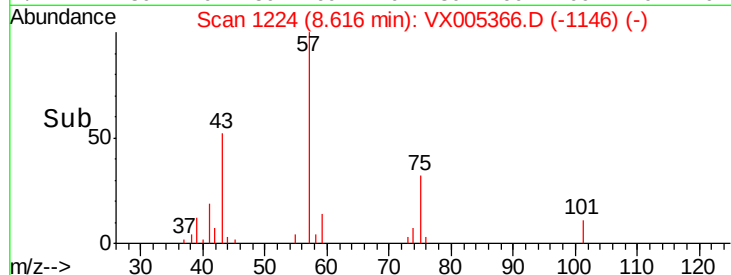
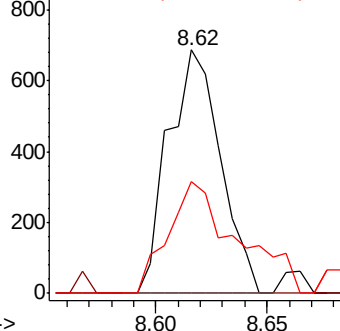
39 46.0 36.4 54.6



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 0.227 ug/l

RT: 9.49 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VX005366.D

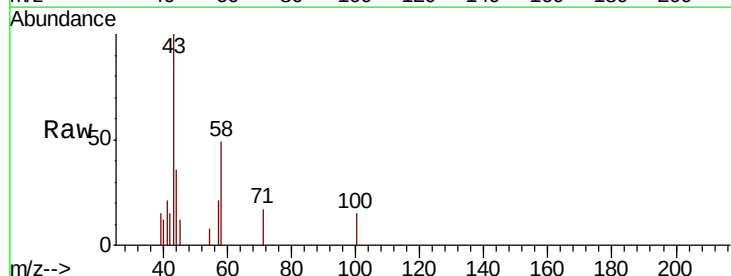
Acq: 16 Oct 2018 14:09

Tgt Ion: 43 Resp: 964

Ion Ratio Lower Upper

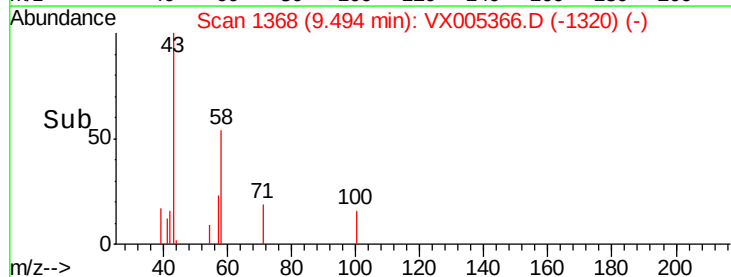
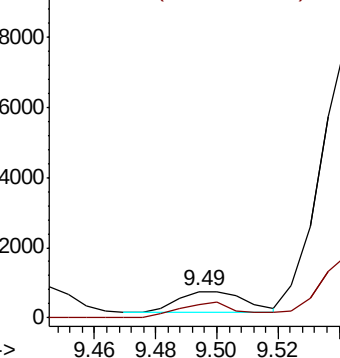
43 100

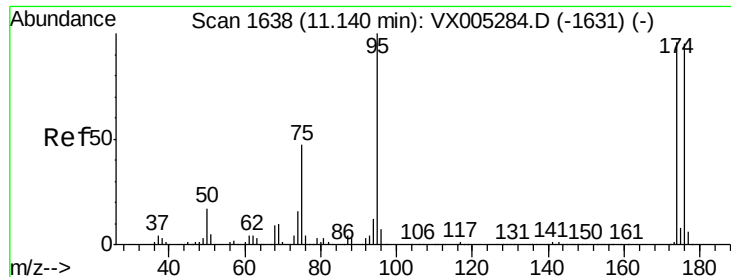
58 65.4 29.0 87.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

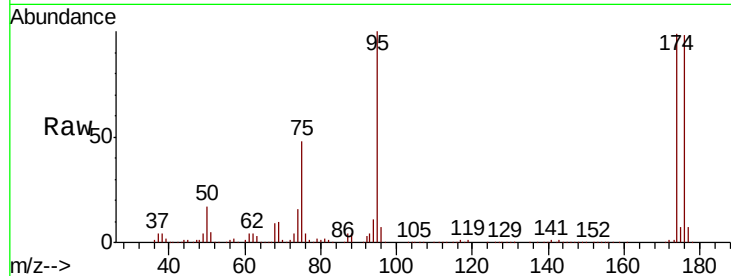




#62
4-Bromofluorobenzene
Concen: 49.336 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

Instrument :
MSVOA_X
ClientSampleId :
BS-SOIL-1

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.3	0.0	185.2
176	91.9	0.0	178.6

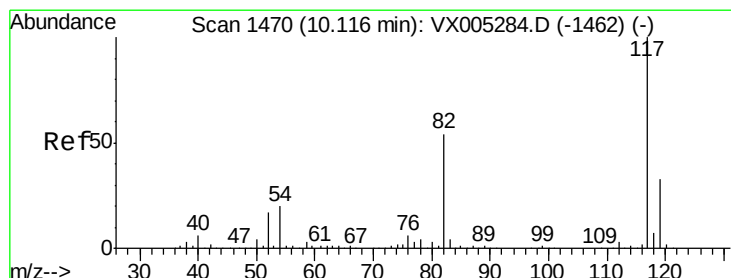
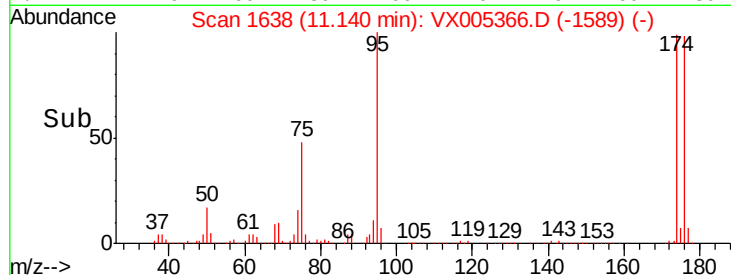
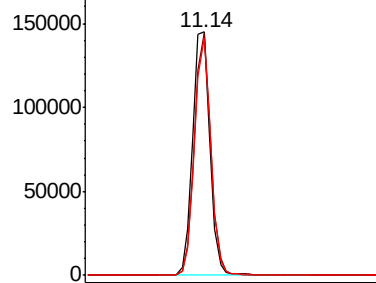


Abundance

Ion 94.90 (94.60 to 95.60): VX0

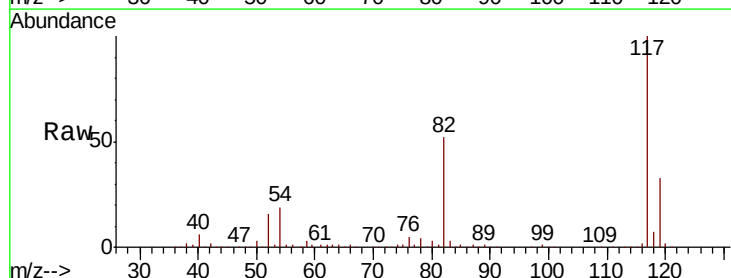
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005366.D
Acq: 16 Oct 2018 14:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.8	47.8	71.6
119	32.8	29.3	43.9

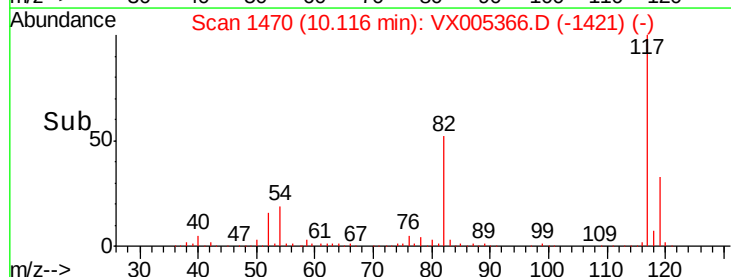
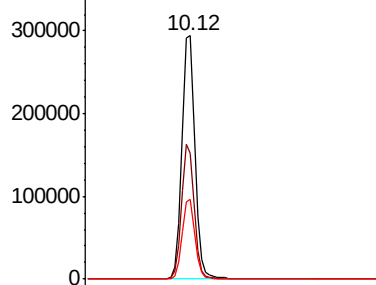


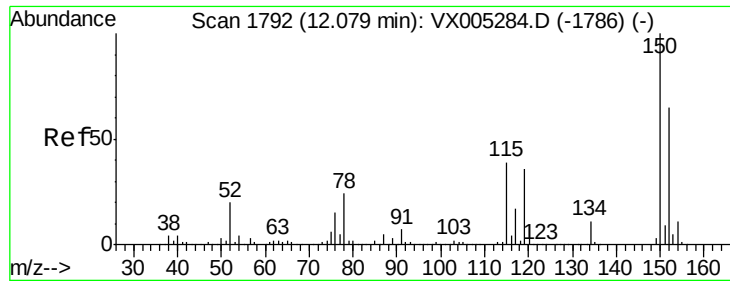
Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

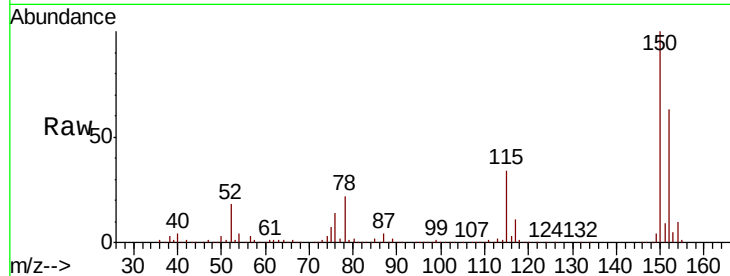




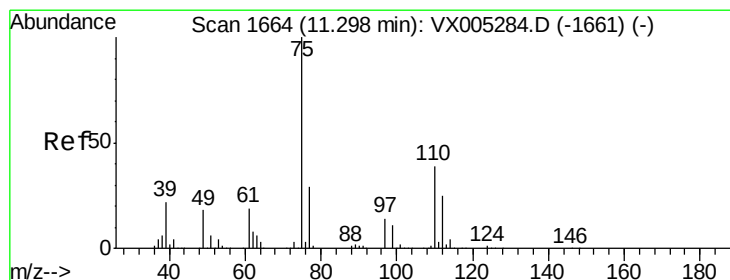
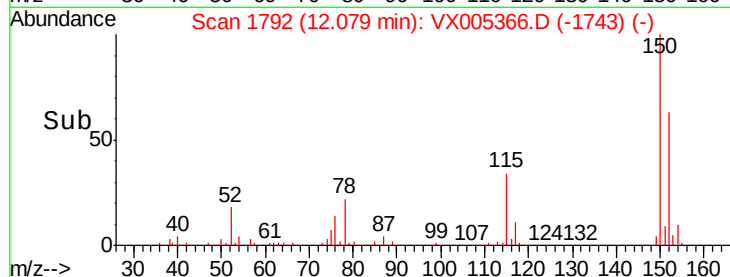
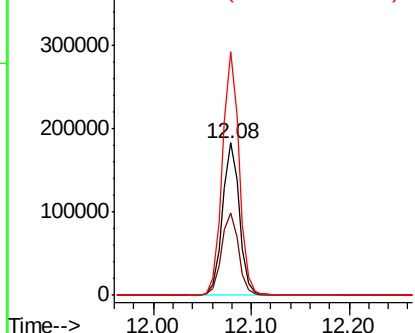
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX005366.D
 Acq: 16 Oct 2018 14:09

Instrument :
 MSVOA_X
 ClientSampleId :
 BS-SOIL-1

Tgt Ion:152 Resp: 219224
 Ion Ratio Lower Upper
 152 100
 115 55.0 39.0 117.0
 150 158.3 0.0 351.0

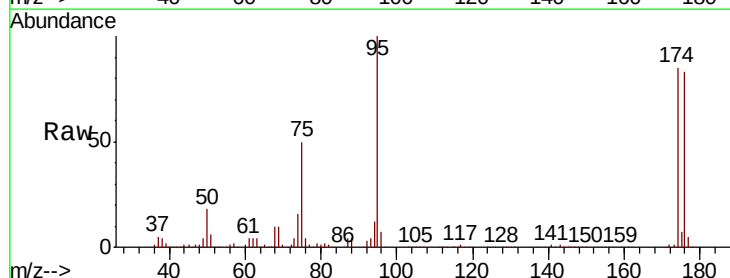


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

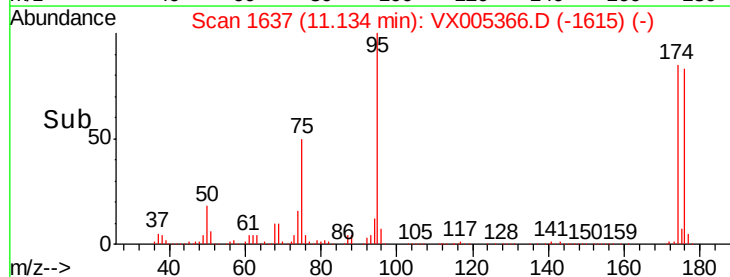
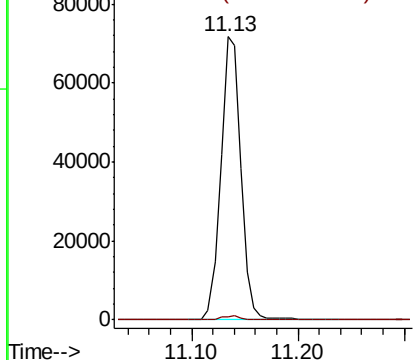


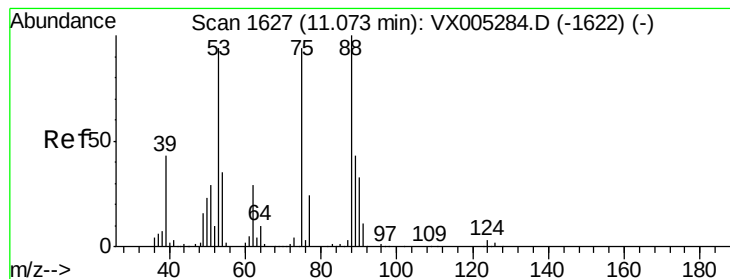
#76
 1,2,3-Trichloropropane
 Concen: 22.178 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX005366.D
 Acq: 16 Oct 2018 14:09

Tgt Ion: 75 Resp: 94306
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.386 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005366.D

Acq: 16 Oct 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

BS-SOIL-1

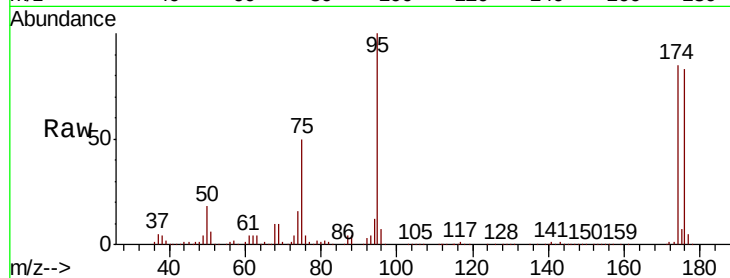
Tgt Ion: 75 Resp: 94306

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 37.2 55.8#



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

