

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101918\
 Data File : VX005454.D
 Acq On : 19 Oct 2018 13:26
 Operator : JC/MD
 Sample : J5590-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LS-SOIL-1

Quant Time: Oct 20 04:19:24 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	5.67	168	275097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	413080	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	362197	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	173680	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	164209	53.78	ug/l	0.00
Spiked Amount			Recovery	=	107.56%	
35) Dibromofluoromethane	5.51	113	132187	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.71	98	476170	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	11.14	95	155137	43.97	ug/l	0.00
Spiked Amount			Recovery	=	87.94%	

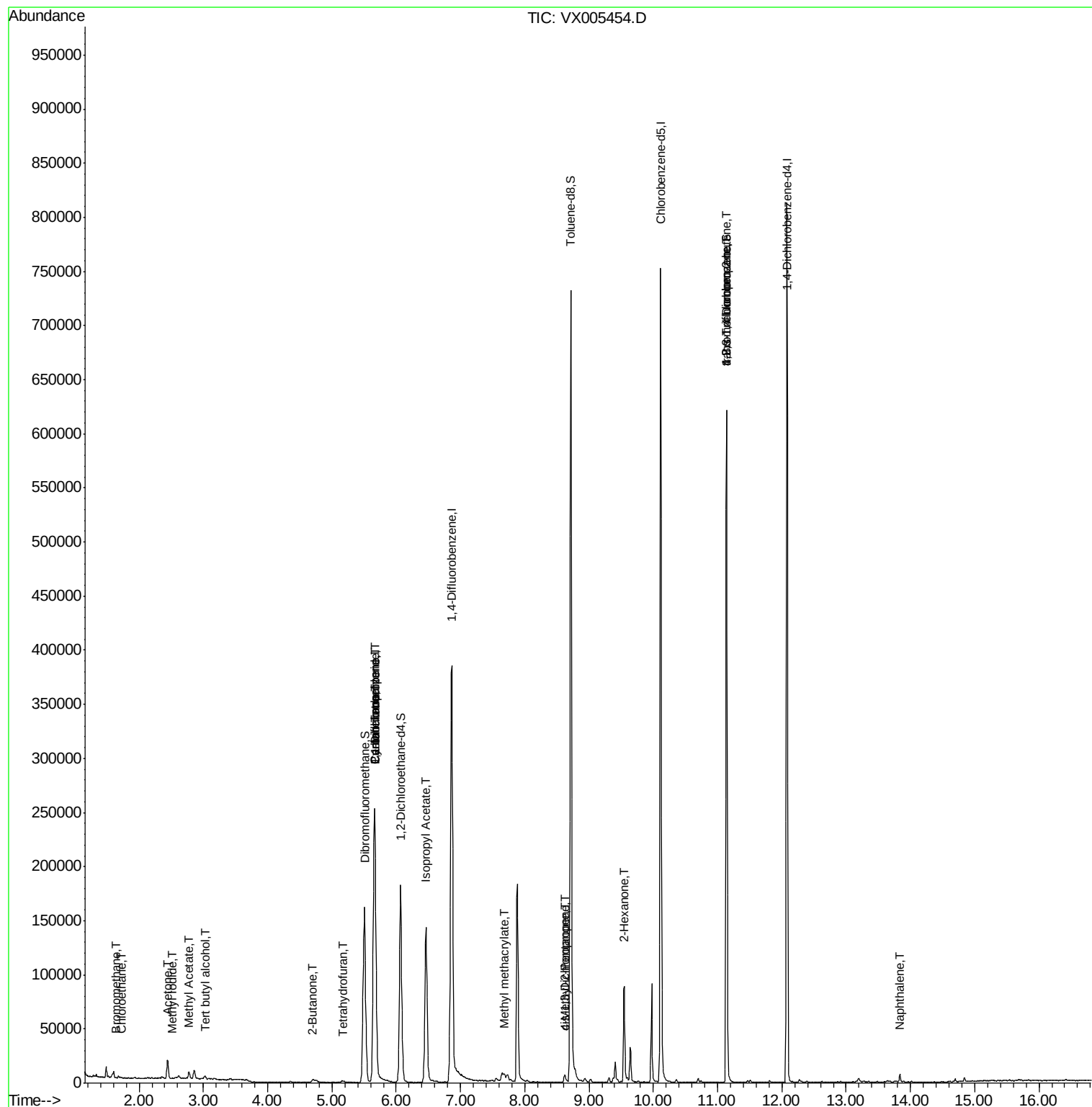
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	493	0.857	ug/l #	74
6) Chloroethane	1.73	64	112	0.389	ug/l #	44
10) Methyl Iodide	2.52	142	225	2.569	ug/l #	63
11) Tert butyl alcohol	3.02	59	2211	2.567	ug/l #	78
13) Acrolein	2.30	56	346	Below Cal	#	83
16) Acetone	2.44	43	18757	10.625	ug/l	90
18) Methyl Acetate	2.78	43	7965	1.586	ug/l	93
20) Methylene Chloride	2.86	84	3257	Below Cal		87
25) 2-Butanone	4.70	43	5292	2.049	ug/l	94
29) Tetrahydrofuran	5.17	42	1528	0.927	ug/l	94
31) Cyclohexane	5.67	56	4762	1.135	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18665	4.665	ug/l #	49
38) Carbon Tetrachloride	5.66	117	24012	5.973	ug/l #	16
43) Isopropyl Acetate	6.46	43	186294	27.182	ug/l	96
48) Methyl methacrylate	7.68	41	6844	1.925	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2335	0.492	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1034	0.245	ug/l #	71
59) 2-Hexanone	9.54	43	10112	2.649	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	76886	22.822	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	76886	69.345	ug/l #	10
95) Naphthalene	13.83	128	4489	0.375	ug/l	96

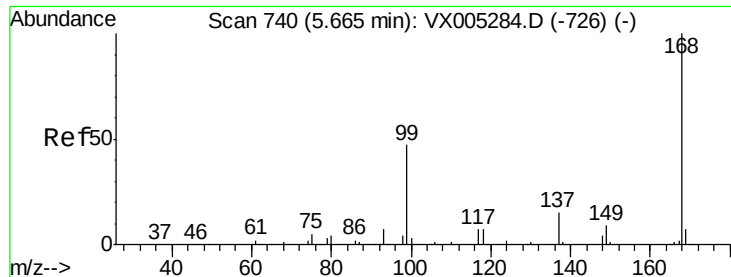
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA X/WATER
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Instrument :
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ClientSampleId :
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Quant Time: Oct 20 04:19:24 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 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: VX005454.D

Acq: 19 Oct 2018 13:26

Instrument :

MSVOA_X

ClientSampleId :

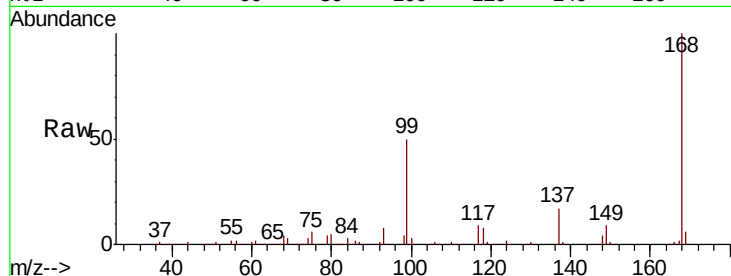
LS-SOIL-1

Tot Ion:168 Resp: 275097

Ion Ratio Lower Upper

168 100

99 49.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

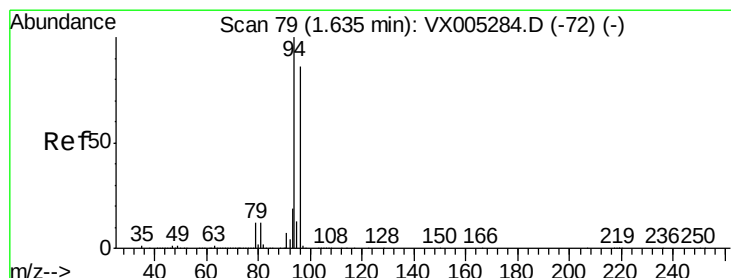
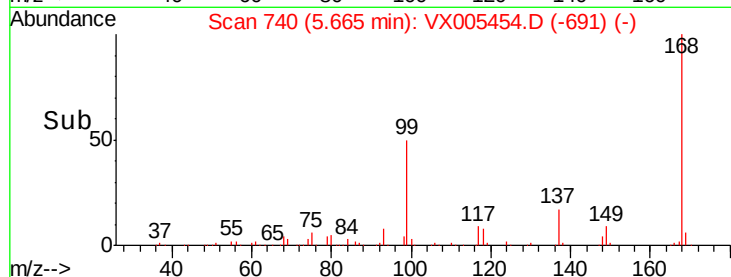
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.857 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005454.D

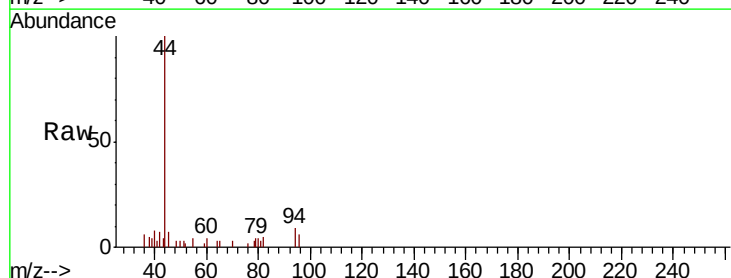
Acq: 19 Oct 2018 13:26

Tgt Ion: 94 Resp: 493

Ion Ratio Lower Upper

94 100

96 68.6 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

150

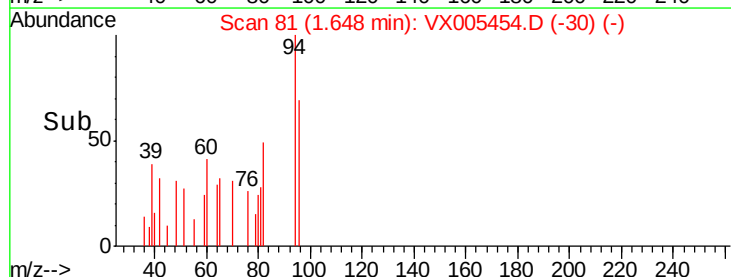
100

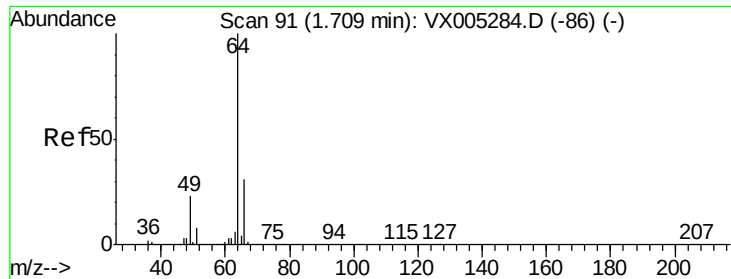
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.389 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

Instrument :

MSVOA_X

ClientSampled :

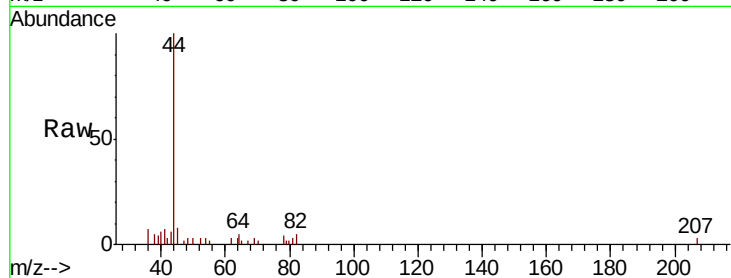
LS-SOIL-1

Tot Ion: 64 Resp: 112

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

200

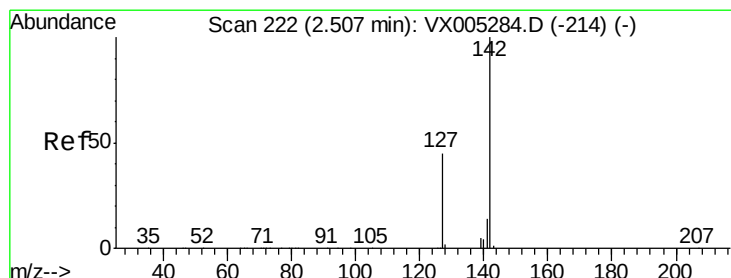
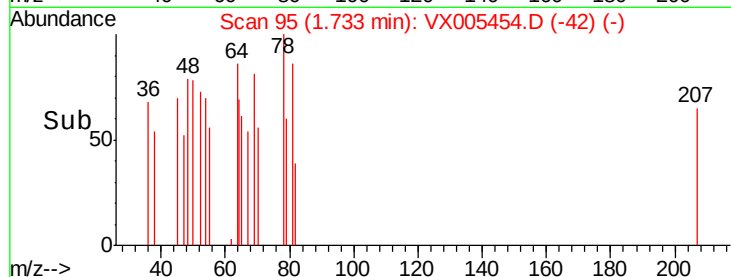
150

100

50

0

Time-->



#10

Methyl Iodide

Concen: 2.569 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

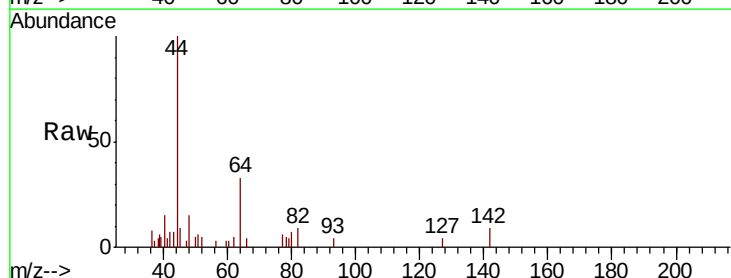
Tgt Ion: 142 Resp: 225

Ion Ratio Lower Upper

142 100

127 18.2 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

200

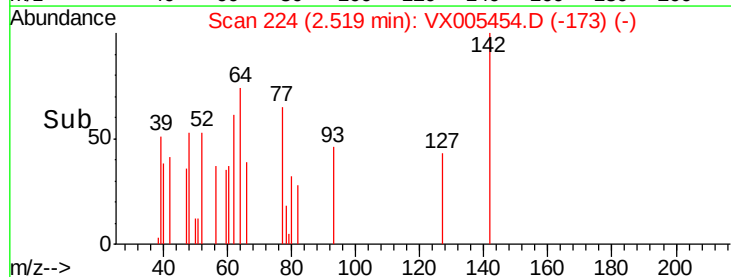
150

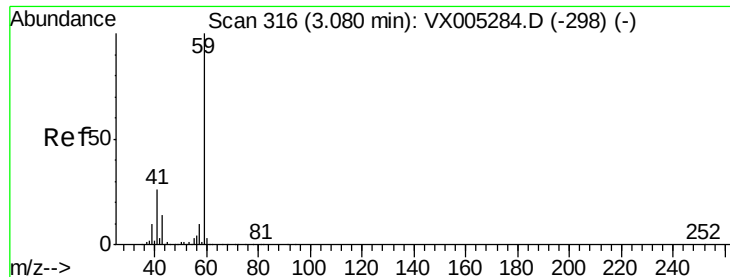
100

50

0

Time-->

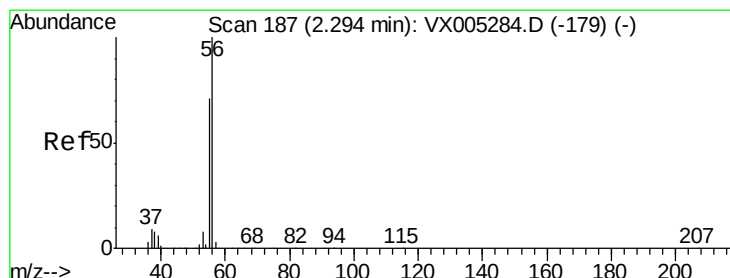
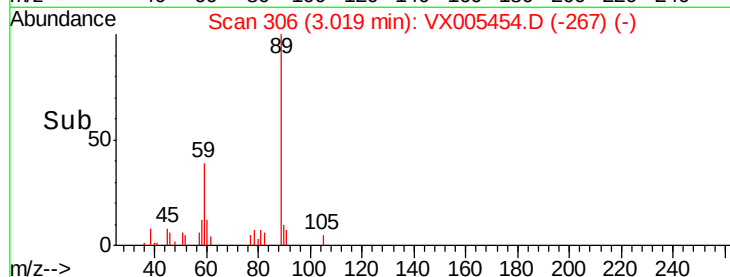
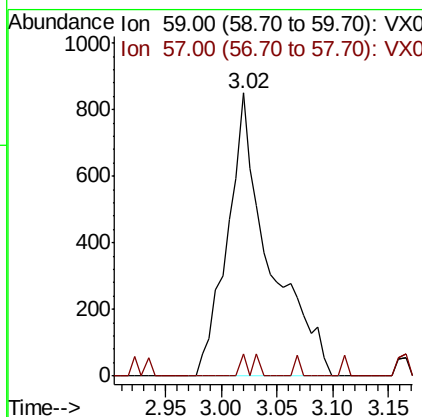
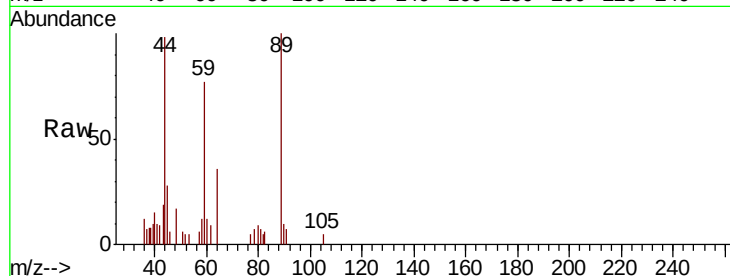




#11
Tert butyl alcohol
Concen: 2.567 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

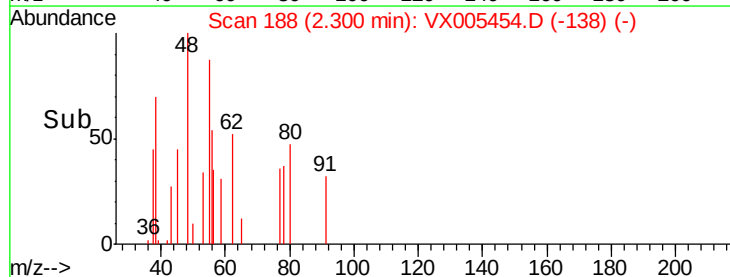
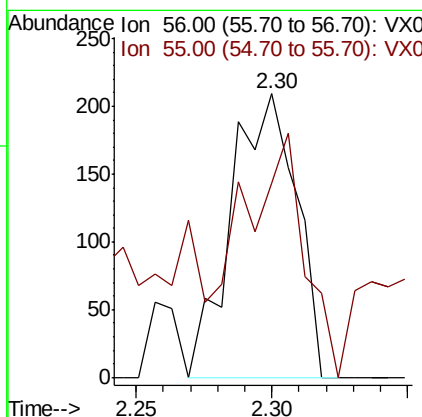
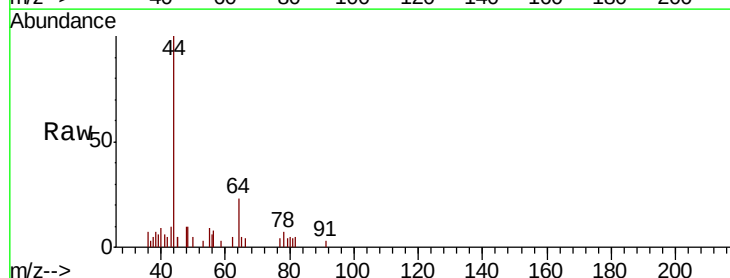
Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-1

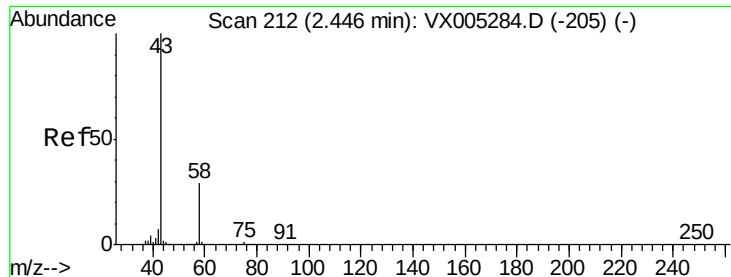
Tot Ion: 59 Resp: 2211
Ion Ratio Lower Upper
59 100
57 2.2 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Tgt Ion: 56 Resp: 346
Ion Ratio Lower Upper
56 100
55 82.4 54.7 82.1#

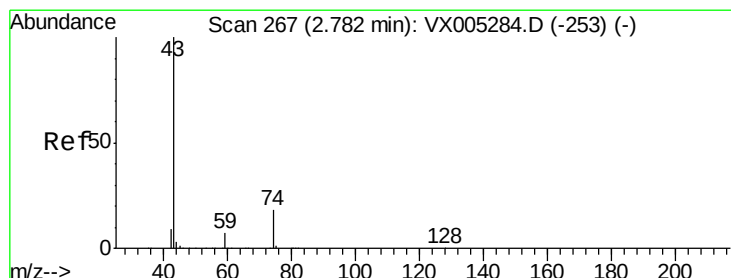
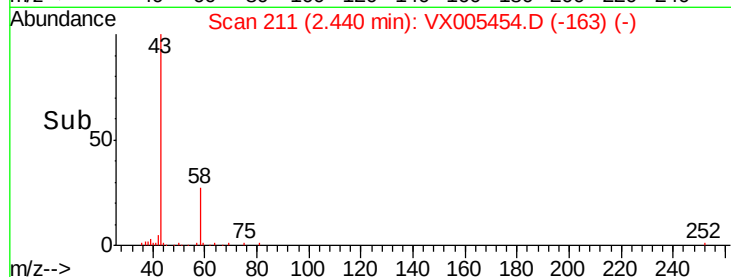
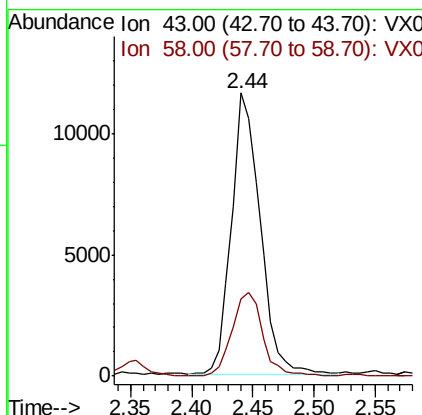
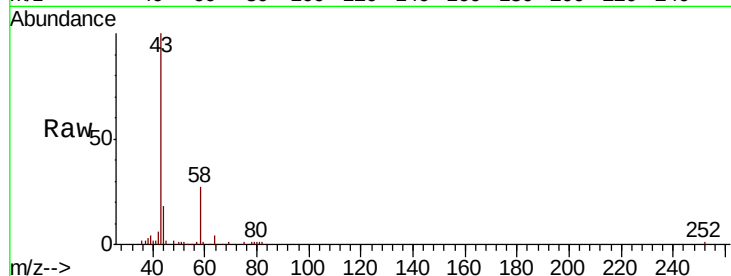




#16
Acetone
Concen: 10.625 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

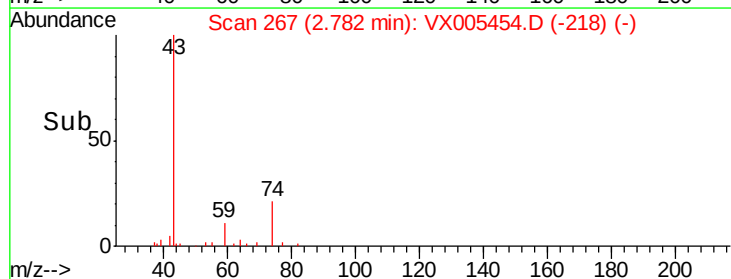
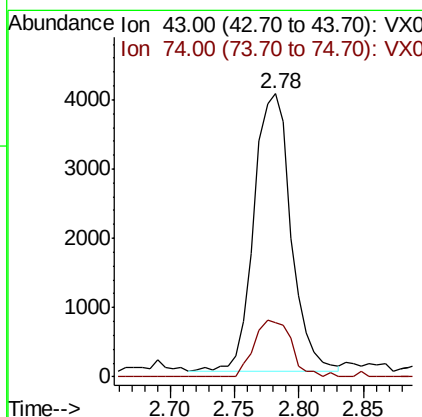
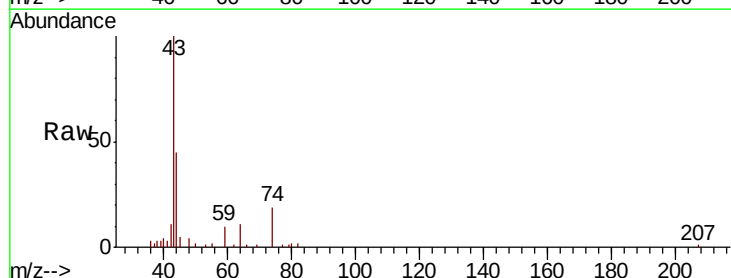
Instrument :
MSVOA_X
ClientSampled :
LS-SOIL-1

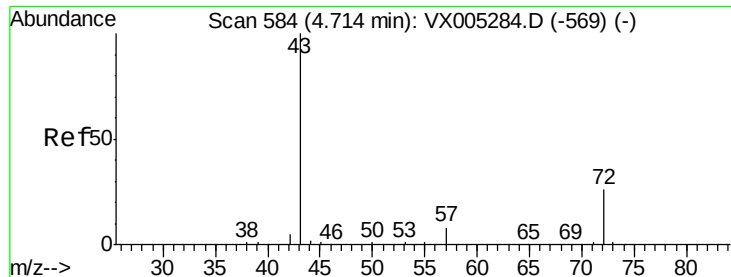
Tot Ion: 43 Resp: 18757
Ion Ratio Lower Upper
43 100
58 27.4 26.2 39.4



#18
Methyl Acetate
Concen: 1.586 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Tgt Ion: 43 Resp: 7965
Ion Ratio Lower Upper
43 100
74 20.6 19.4 29.2





#25

2-Butanone

Concen: 2.049 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.02 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

Instrument :

MSVOA_X

ClientSampled :

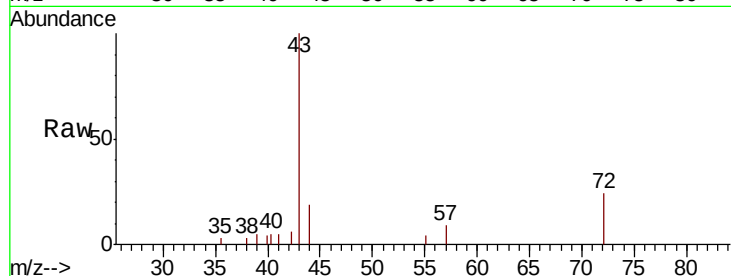
LS-SOIL-1

Tot Ion: 43 Resp: 5292

Ion Ratio Lower Upper

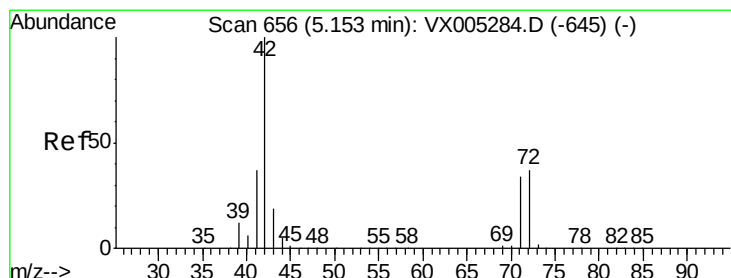
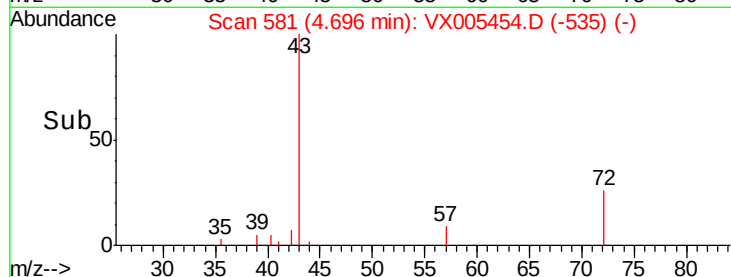
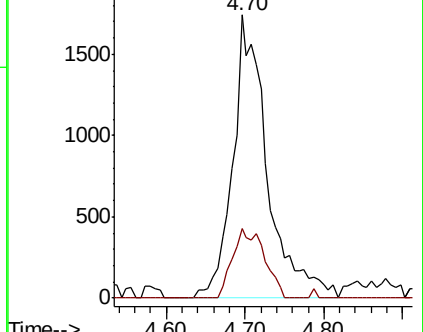
43 100

72 24.5 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.927 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

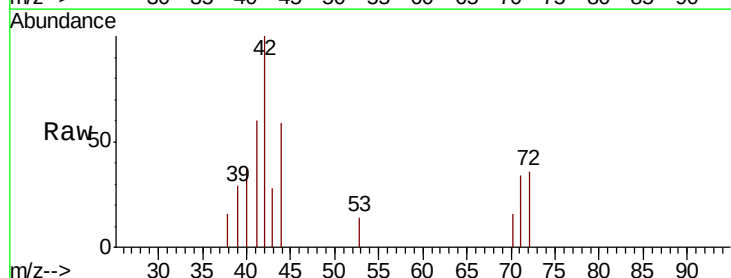
Tgt Ion: 42 Resp: 1528

Ion Ratio Lower Upper

42 100

72 39.3 37.4 56.0

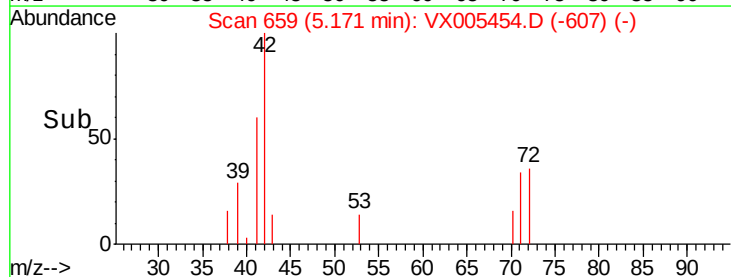
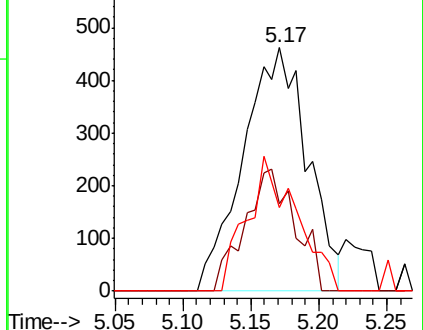
71 42.5 34.5 51.7

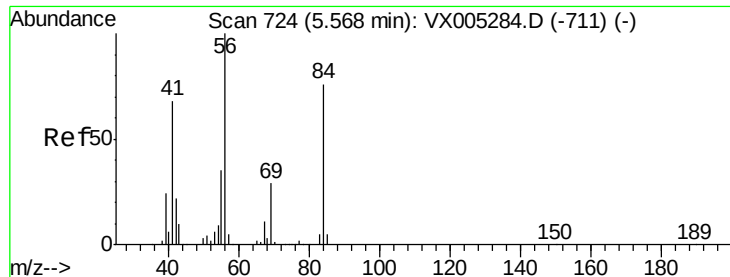


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

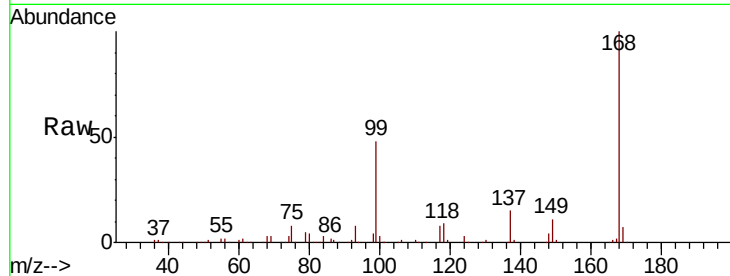




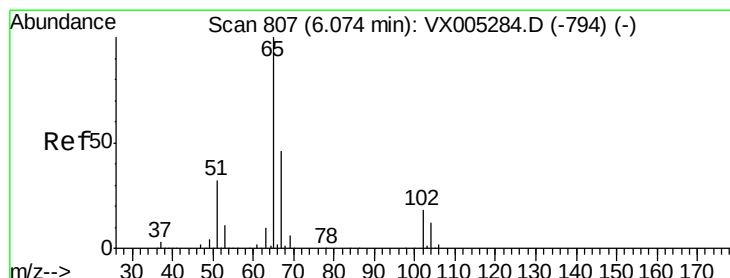
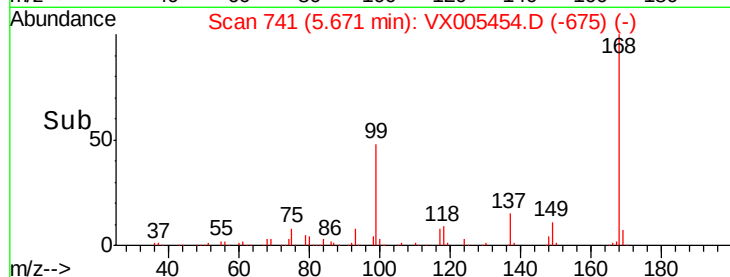
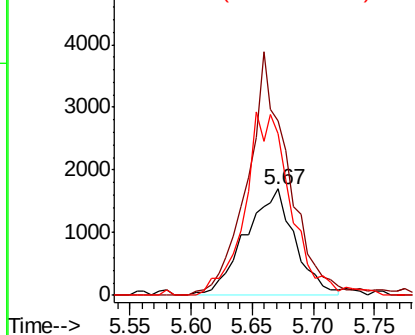
#31
Cyclohexane
Concen: 1.135 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Instrument :
MSVOA_X
ClientSampled :
LS-SOIL-1

Tot Ion: 56 Resp: 4762
Ion Ratio Lower Upper
56 100
69 165.0 25.4 38.2#
84 153.0 71.4 107.2#

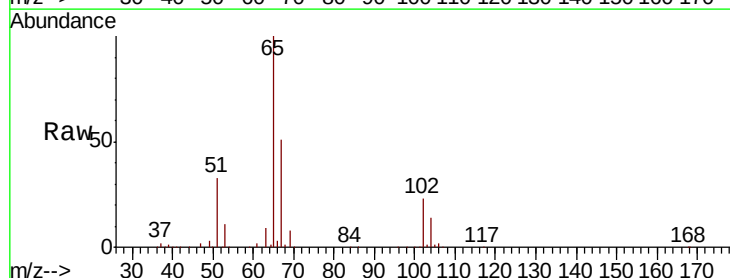


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

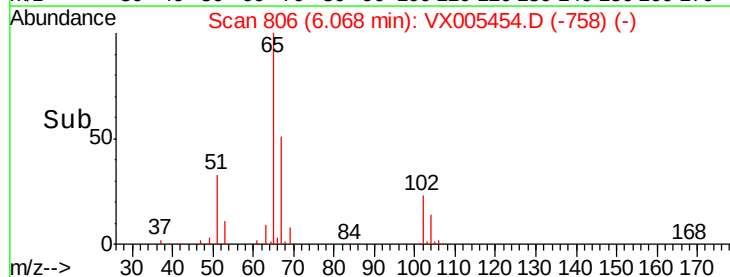
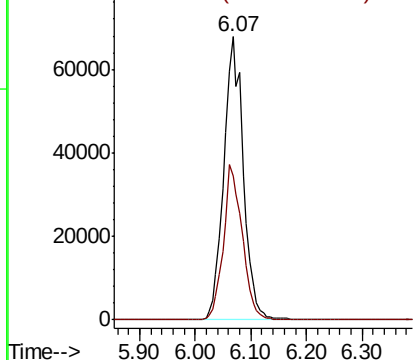


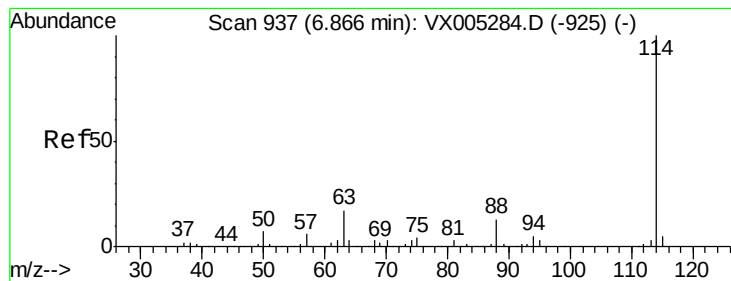
#33
1,2-Dichloroethane-d4
Concen: 53.783 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Tgt Ion: 65 Resp: 164209
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. -0.00 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-1

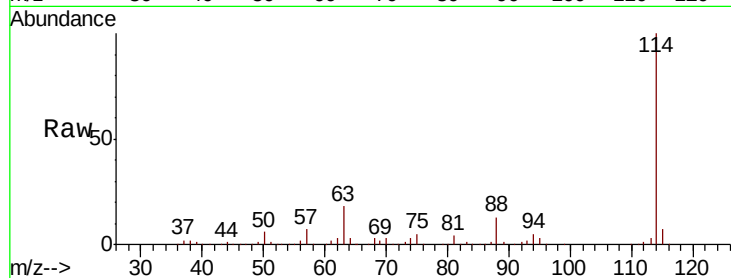
Tot Ion:114 Resp: 413080

Ion Ratio Lower Upper

114 100

63 17.5 0.0 39.0

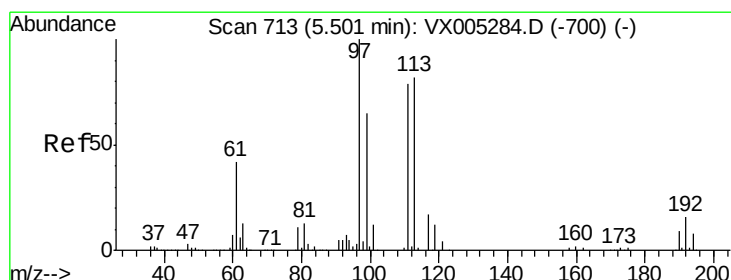
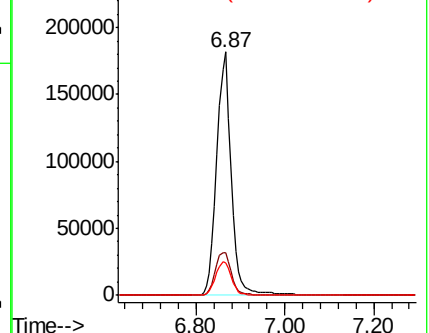
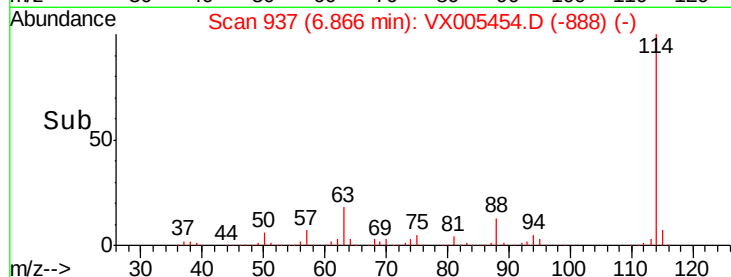
88 13.2 0.0 30.4



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



#35

Dibromofluoromethane

Concen: 48.315 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

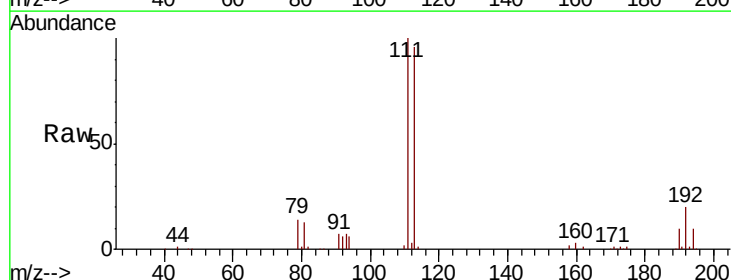
Tgt Ion:113 Resp: 132187

Ion Ratio Lower Upper

113 100

111 100.5 82.4 123.6

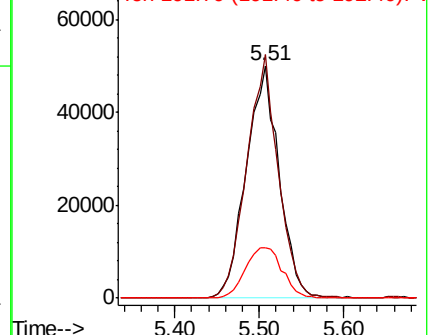
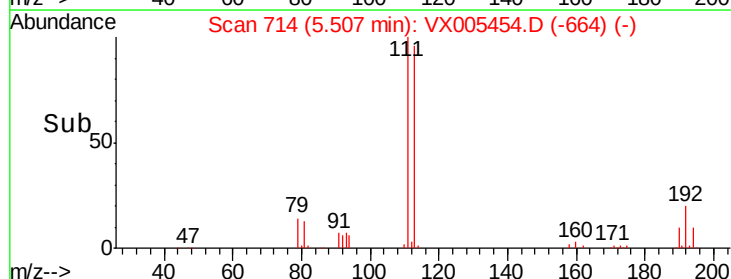
192 24.3 19.4 29.2

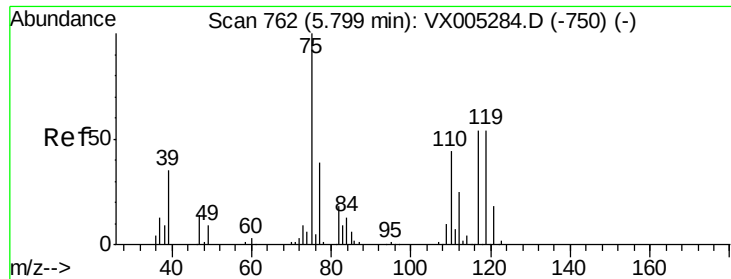


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.665 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-1

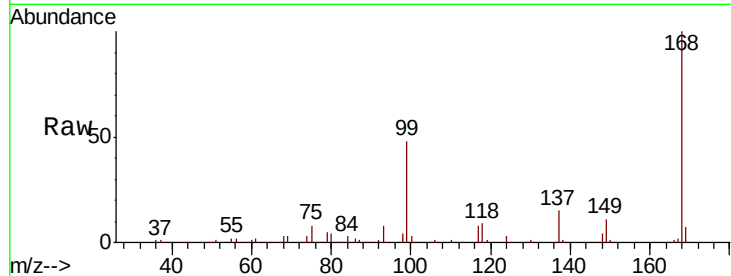
Tot Ion: 75 Resp: 18665

Ion Ratio Lower Upper

75 100

110 9.0 18.0 54.0#

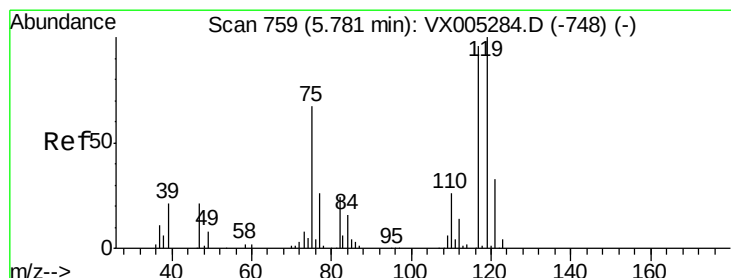
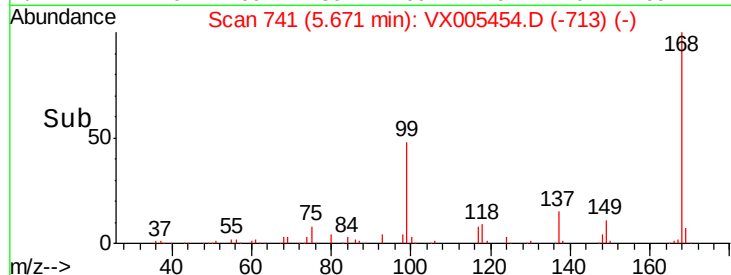
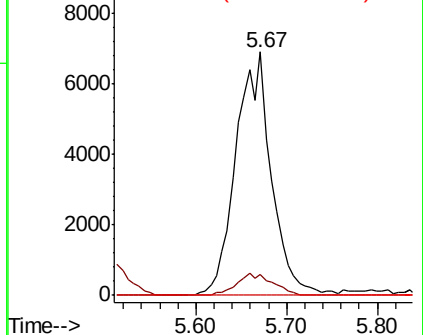
77 0.0 24.6 36.8#



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: 5.973 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

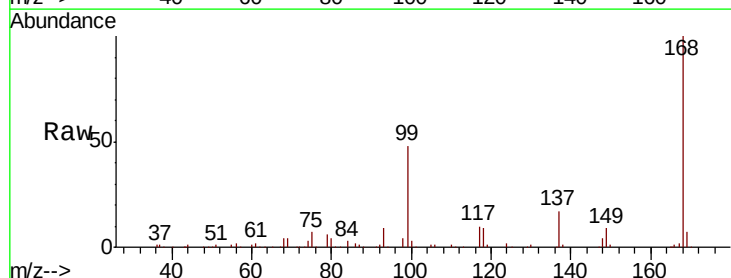
Tgt Ion: 117 Resp: 24012

Ion Ratio Lower Upper

117 100

119 6.6 78.8 118.2#

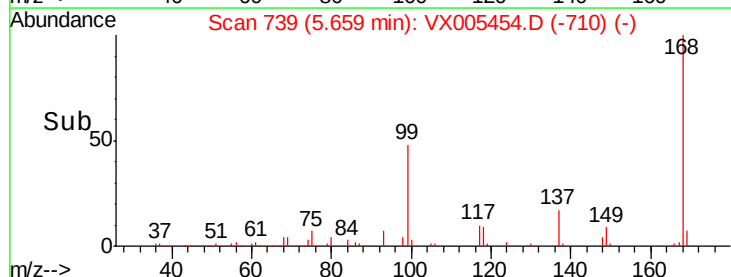
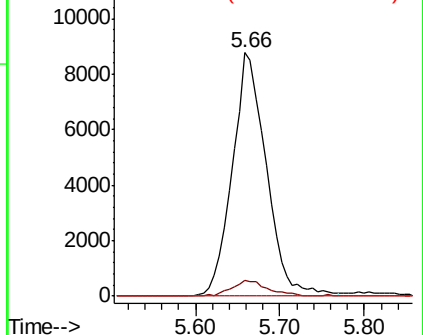
121 0.0 24.9 37.3#

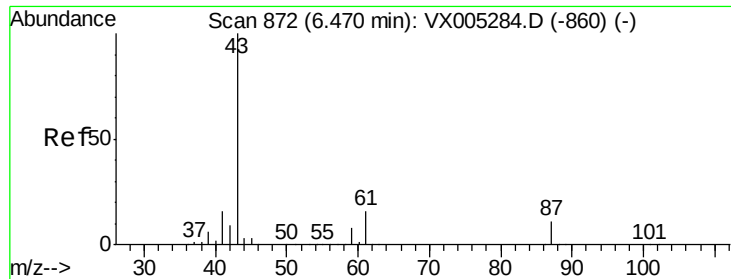


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 27.182 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

Instrument :

MSVOA_X

ClientSampled :

LS-SOIL-1

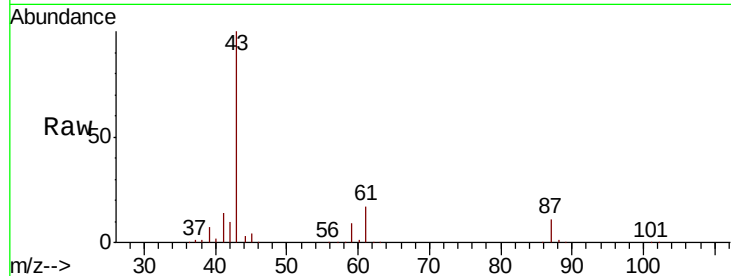
Tot Ion: 43 Resp: 186294

Ion Ratio Lower Upper

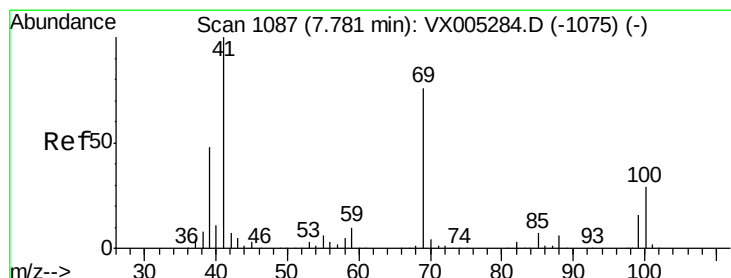
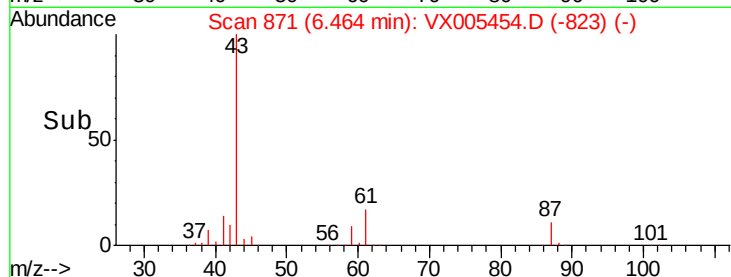
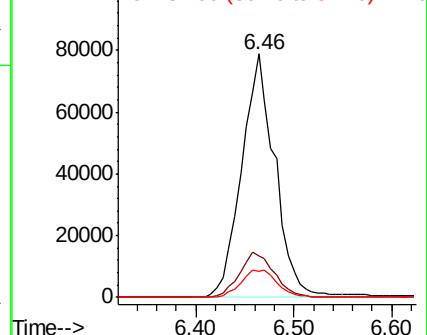
43 100

61 19.6 17.0 25.4

87 12.5 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



#48

Methyl methacrylate

Concen: 1.925 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005454.D

Acq: 19 Oct 2018 13:26

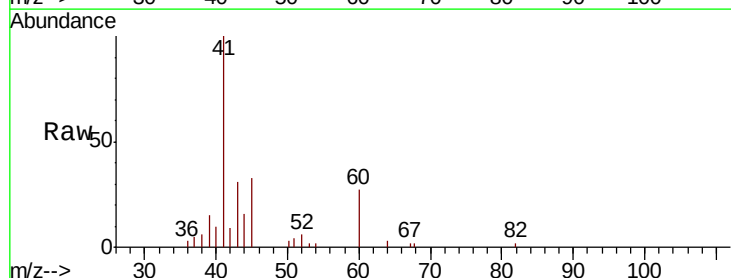
Tgt Ion: 41 Resp: 6844

Ion Ratio Lower Upper

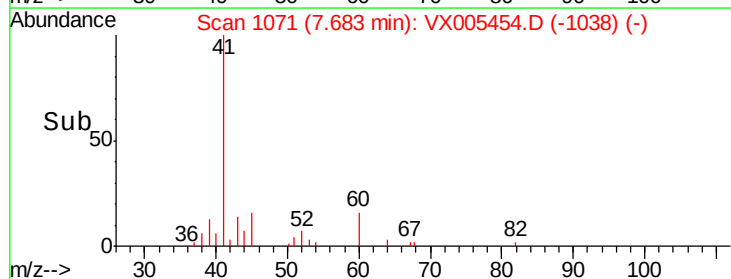
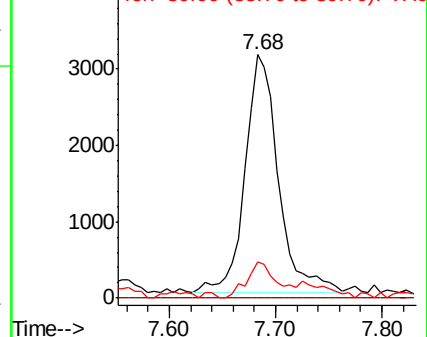
41 100

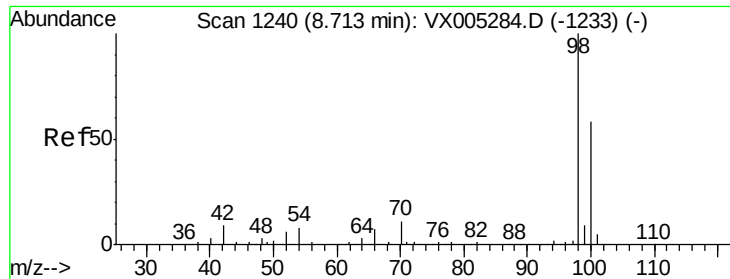
69 0.0 70.2 105.4#

39 14.1 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

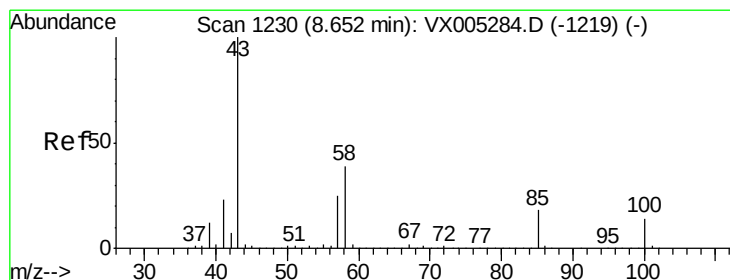
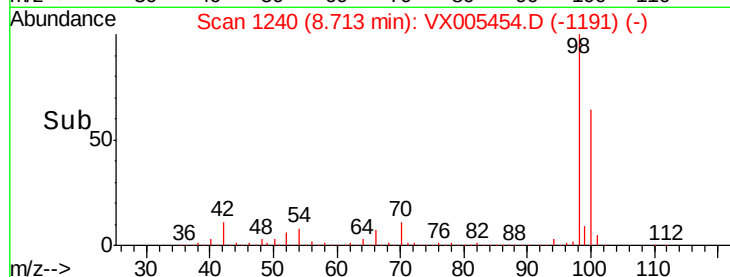
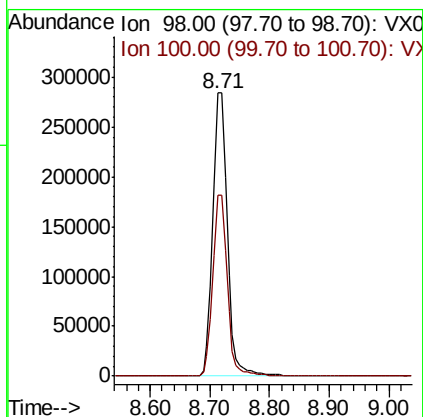
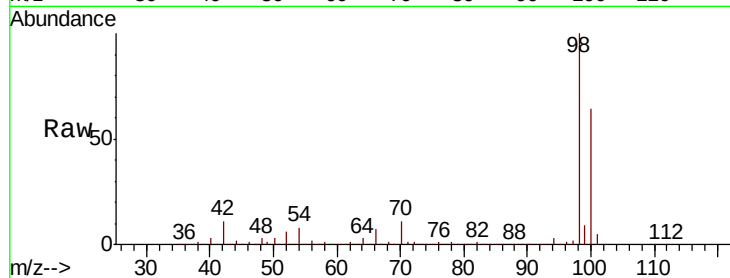




#50
Toluene-d8
Concen: 50.696 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

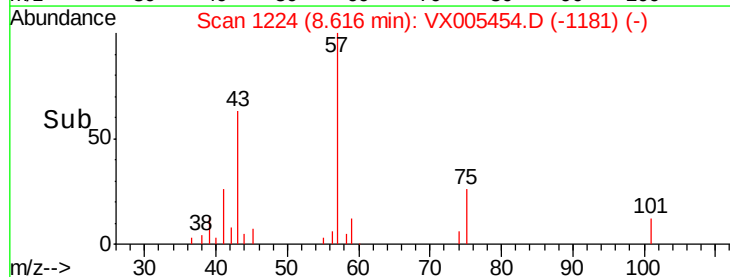
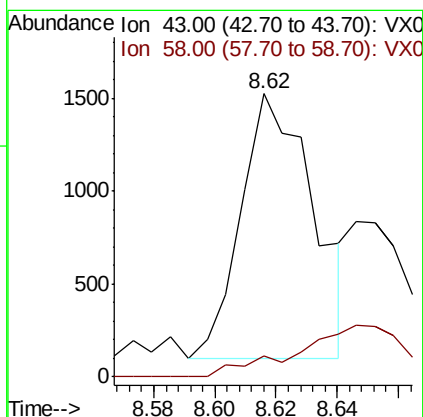
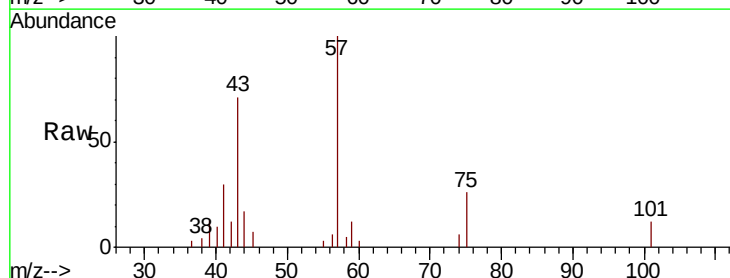
Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-1

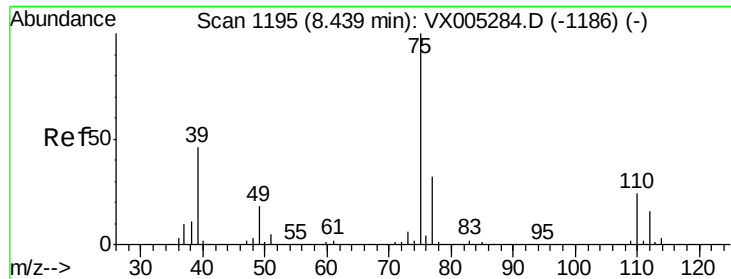
Tot Ion: 98 Resp: 476170
Ion Ratio Lower Upper
98 100
100 63.5 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.492 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.04 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Tgt Ion: 43 Resp: 2335
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



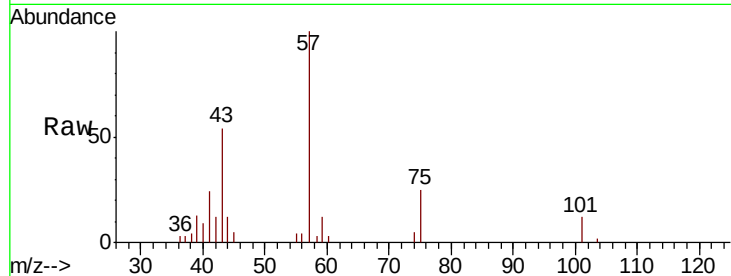


#54

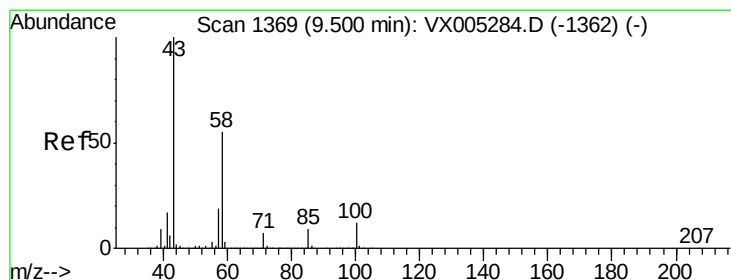
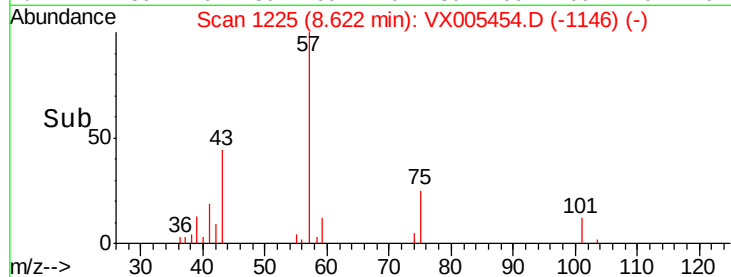
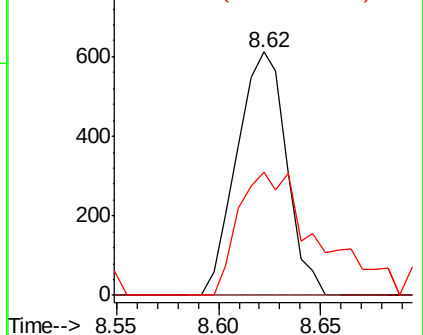
cis-1,3-Dichloropropene
 Concen: 0.245 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005454.D
 Acq: 19 Oct 2018 13:26

Instrument :
 MSVOA_X
 ClientSampled :
 LS-SOIL-1

Tot Ion: 75 Resp: 1034
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 50.7 36.4 54.6



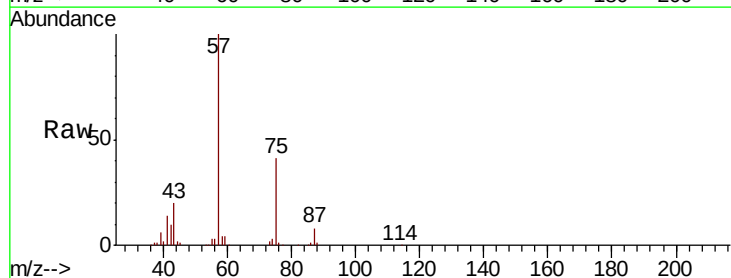
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



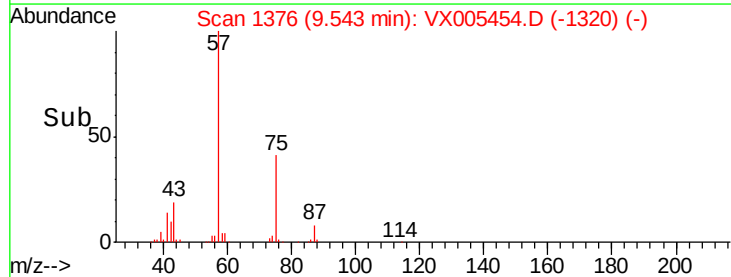
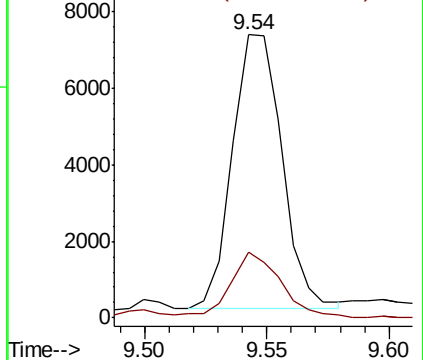
#59

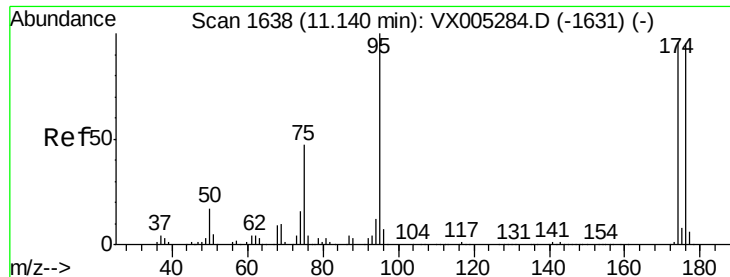
2-Hexanone
 Concen: 2.649 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.04 min
 Lab File: VX005454.D
 Acq: 19 Oct 2018 13:26

Tgt Ion: 43 Resp: 10112
 Ion Ratio Lower Upper
 43 100
 58 24.4 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

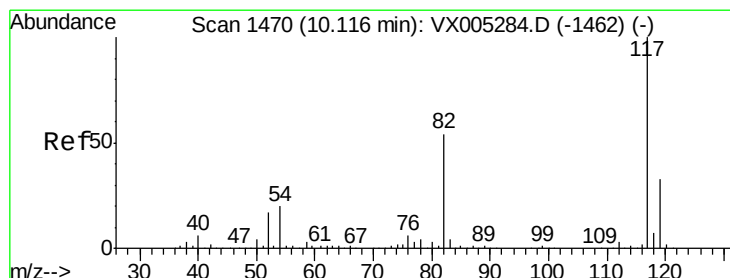
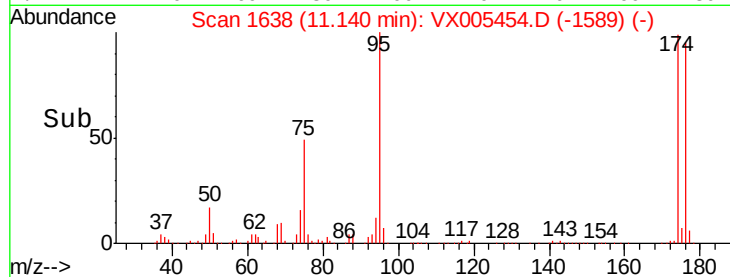
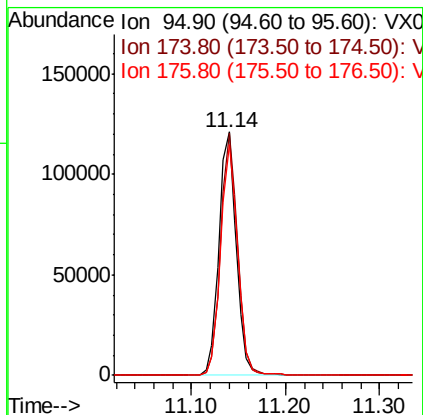
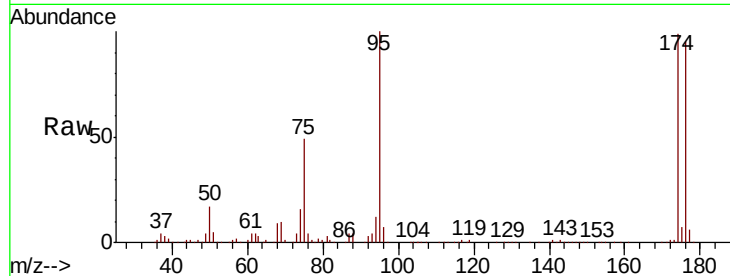




#62
4-Bromofluorobenzene
Concen: 43.967 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

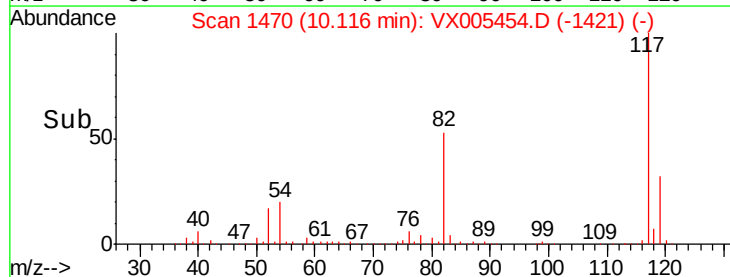
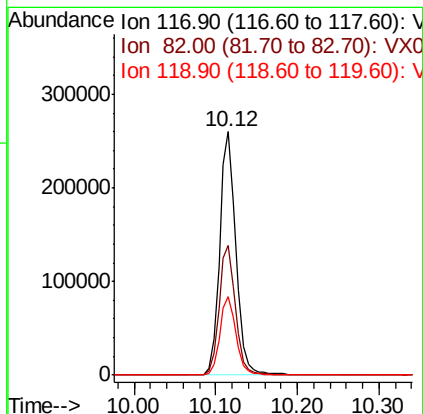
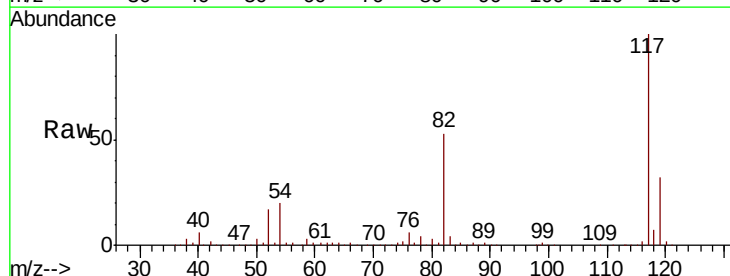
Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-1

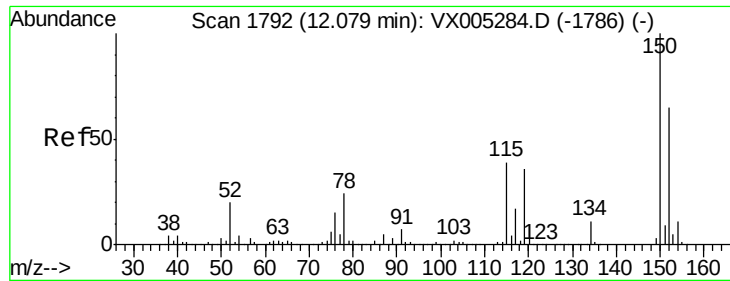
Tot Ion	95	Resp	155137
Ion Ratio	100		
Lower			
Upper			
174	97.4	0.0	185.2
176	93.3	0.0	178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Tgt Ion	117	Resp	362197
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	53.2	47.8	71.6
119	32.5	29.3	43.9

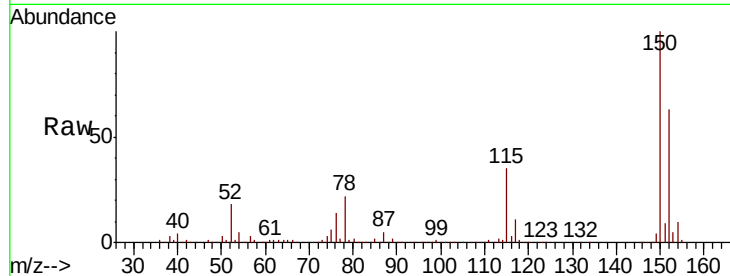




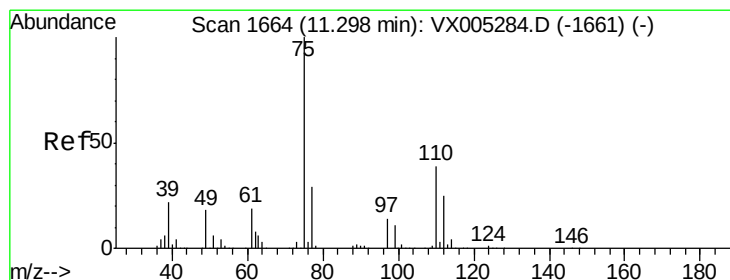
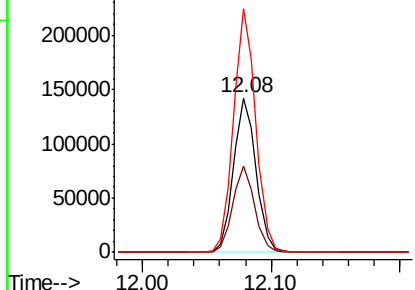
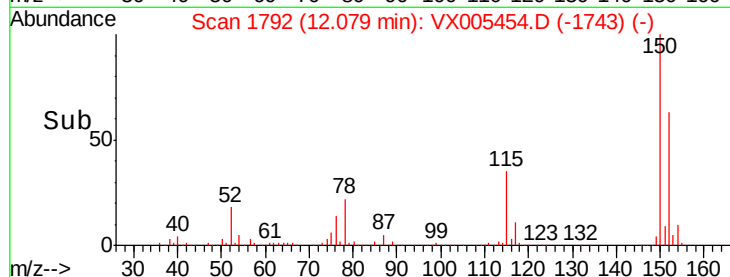
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX005454.D
 Acq: 19 Oct 2018 13:26

Instrument :
 MSVOA_X
 ClientSampled :
 LS-SOIL-1

Tot Ion:152 Resp: 173680
 Ion Ratio Lower Upper
 152 100
 115 54.6 39.0 117.0
 150 156.1 0.0 351.0

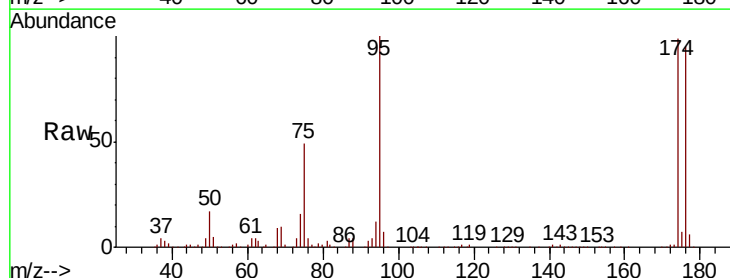


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

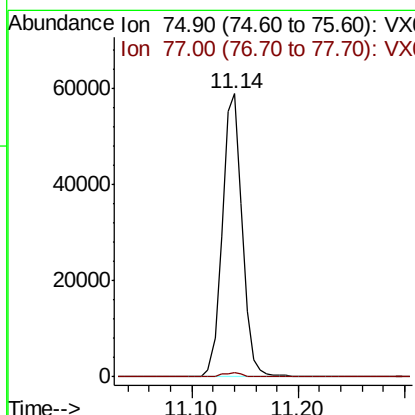
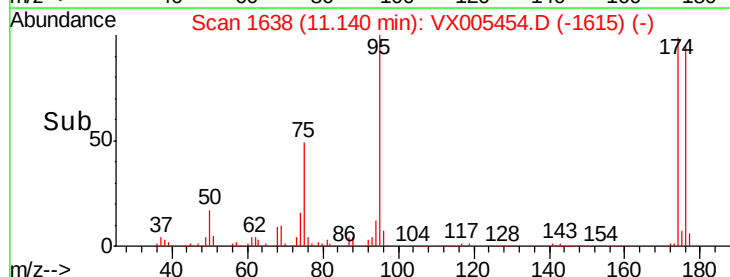


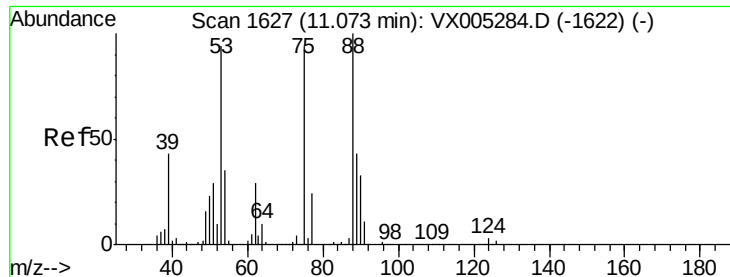
#76
 1,2,3-Trichloropropane
 Concen: 22.822 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005454.D
 Acq: 19 Oct 2018 13:26

Tgt Ion: 75 Resp: 76886
 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

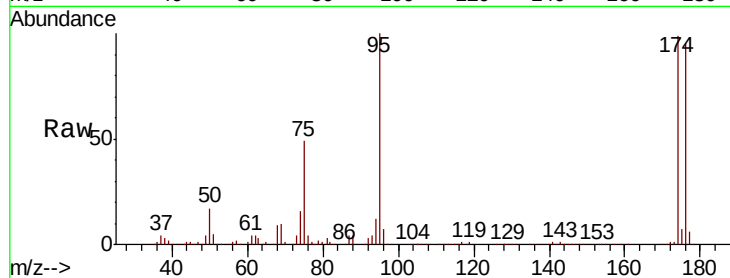




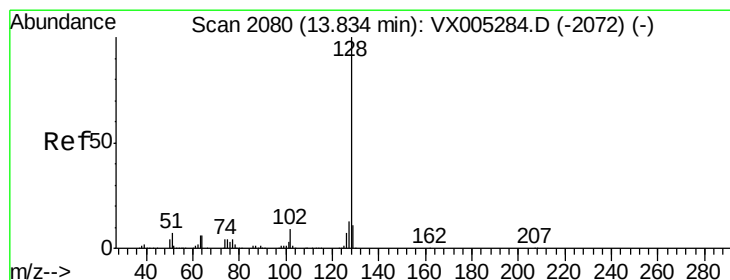
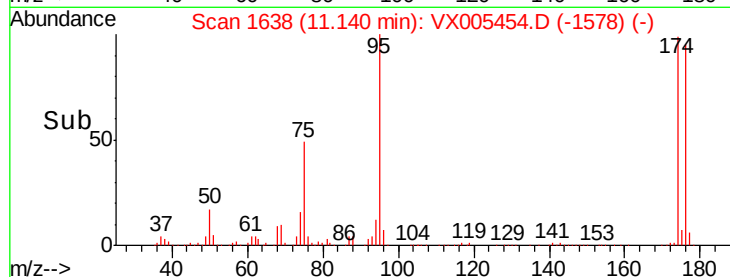
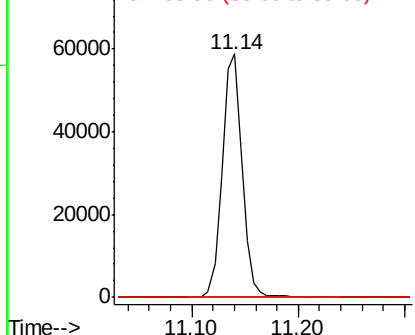
#81
trans-1,4-Dichloro-2-butene
Concen: 69.345 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-1

Tot Ion: 75 Resp: 76886
Ion Ratio Lower Upper
75 100
53 0.2 80.1 120.1#
89 0.0 37.2 55.8#

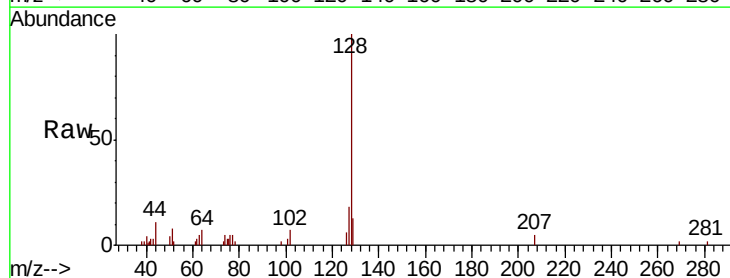


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 0.375 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005454.D
Acq: 19 Oct 2018 13:26

Tgt Ion: 128 Resp: 4489
Ion Ratio Lower Upper
128 100
127 14.1 10.2 15.2
129 12.1 8.6 12.8



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

