

Data File : VX000540.D

Acq On : 30 Mar 2018 03:53

Operator : JC/MD

Sample : J2103-08 5X

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-2

Quant Time: Mar 30 07:04:22 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 21 04:52:42 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	106773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	195644	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	196348	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	106957	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	78521	56.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.68%	
35) Dibromofluoromethane	5.52	113	61322	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
50) Toluene-d8	8.73	98	254677	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
62) 4-Bromofluorobenzene	11.15	95	86676	41.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.78%	

Target Compounds

						Qvalue
3) Chloromethane	1.32	50	343	0.28	ug/l	88
5) Bromomethane	1.65	94	251	0.21	ug/l	99
6) Chloroethane	1.73	64	242	Below	Cal #	44
10) Methyl Iodide	2.51	142	40	4.30	ug/l #	37
11) Tert butyl alcohol	3.08	59	120	0.25	ug/l #	72
13) Acrolein	2.21	56	58	14.93	ug/l #	44
16) Acetone	2.45	43	6614	5.70	ug/l	91
18) Methyl Acetate	2.78	43	997	0.41	ug/l #	65
20) Methylene Chloride	2.87	84	6851	5.12	ug/l	91
25) 2-Butanone	4.73	43	902	0.69	ug/l #	84
29) Tetrahydrofuran	5.18	42	242	0.30	ug/l #	38
31) Cyclohexane	5.67	56	2594	1.48	ug/l #	44
36) 1,1-Dichloropropene	5.67	75	8489	4.63	ug/l #	51
38) Carbon Tetrachloride	5.67	117	10474	5.45	ug/l #	16
43) Isopropyl Acetate	6.49	43	1477	0.40	ug/l #	82
51) 4-Methyl-2-Pentanone	8.66	43	805	0.28	ug/l #	63
60) Dibromochloromethane	9.35	129	44	4.14	ug/l #	12
74) N-amyl acetate	6.49	43	1477	Below	Cal #	84
76) 1,2,3-Trichloropropane	11.15	75	51584	22.44	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	51584	72.66	ug/l #	9
95) Naphthalene	13.84	128	146799	16.80	ug/l	99

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

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Misc : 5.0mL/MSVOA_X/WATER

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Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-2

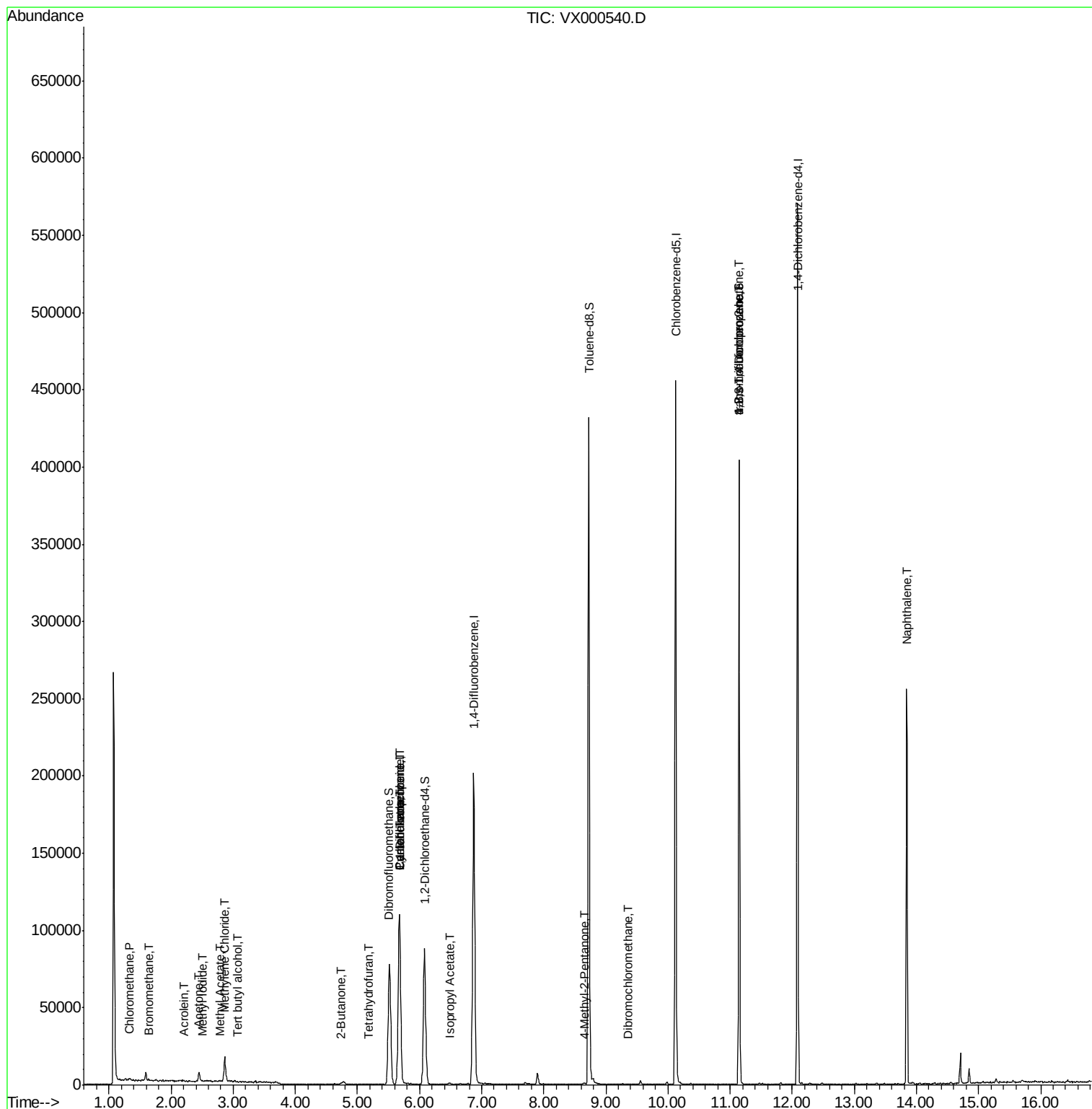
Quant Time: Mar 30 07:04:22 2018

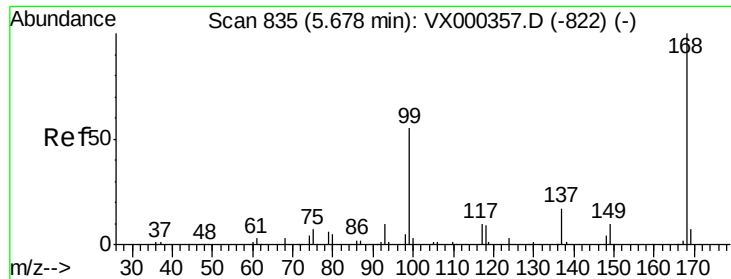
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M

Quant Title : SW846 8260

QLast Update : Wed Mar 21 04:52:42 2018

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampled :

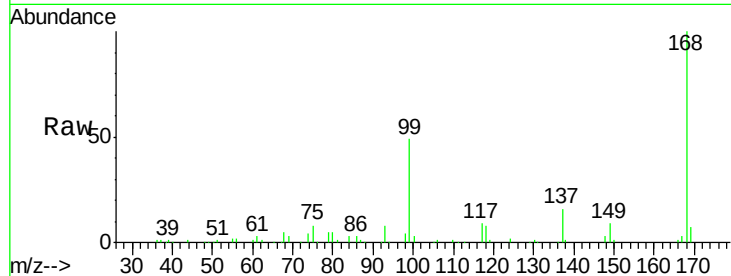
LS-SOIL-2

Tgt Ion:168 Resp: 106773

Ion Ratio Lower Upper

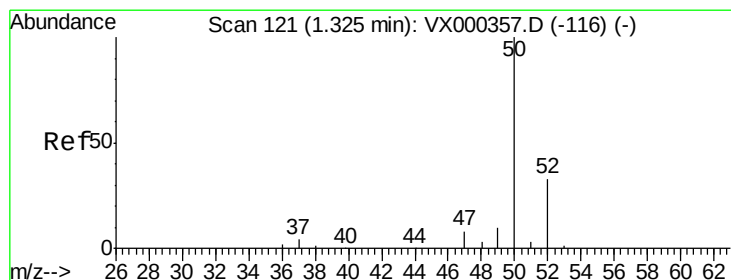
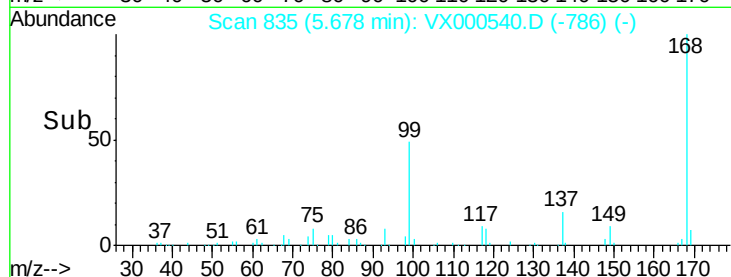
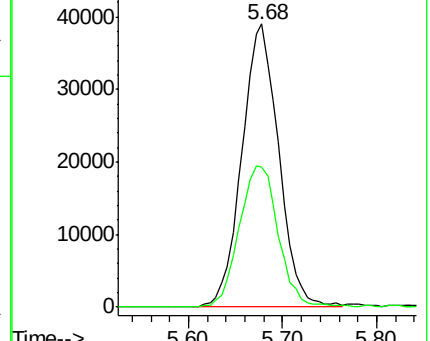
168 100

99 49.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX000540.D

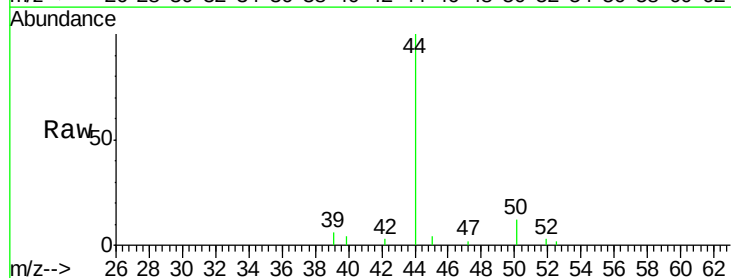
Acq: 30 Mar 2018 03:53

Tgt Ion: 50 Resp: 343

Ion Ratio Lower Upper

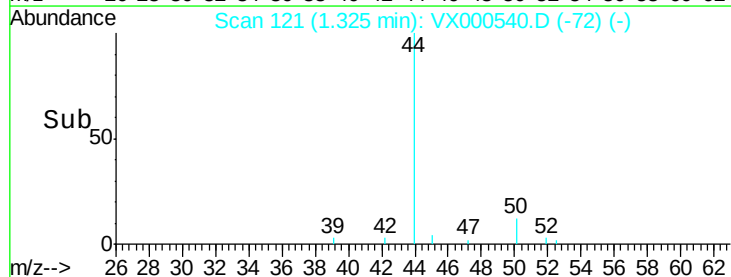
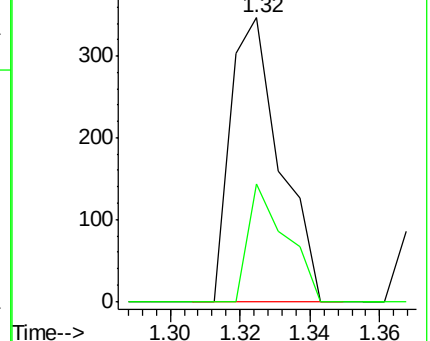
50 100

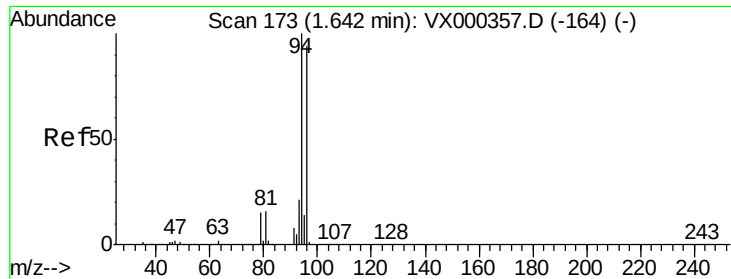
52 41.2 27.5 41.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.21 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampled :

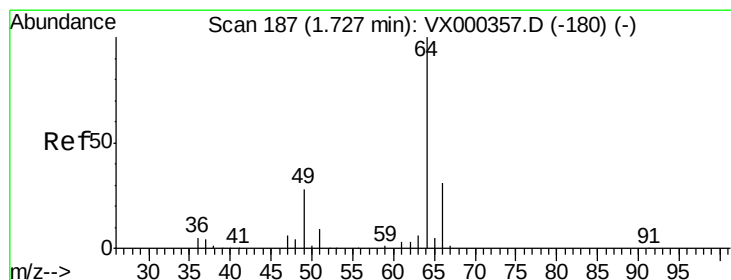
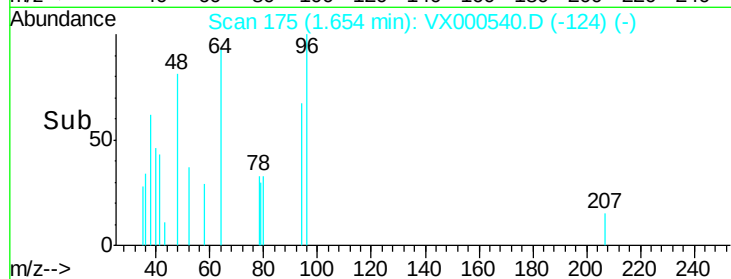
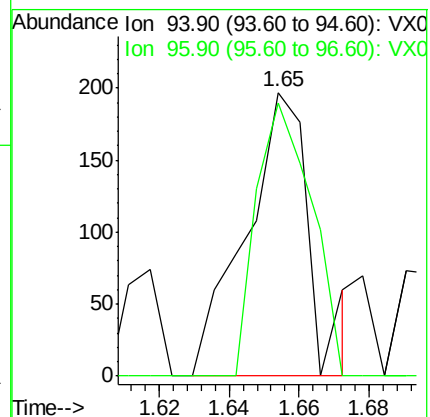
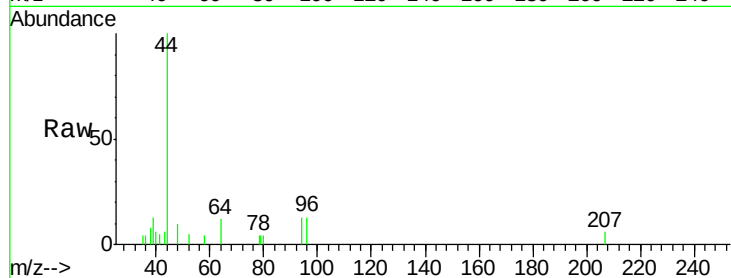
LS-SOIL-2

Tgt Ion: 94 Resp: 251

Ion Ratio Lower Upper

94 100

96 96.4 77.7 116.5



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX000540.D

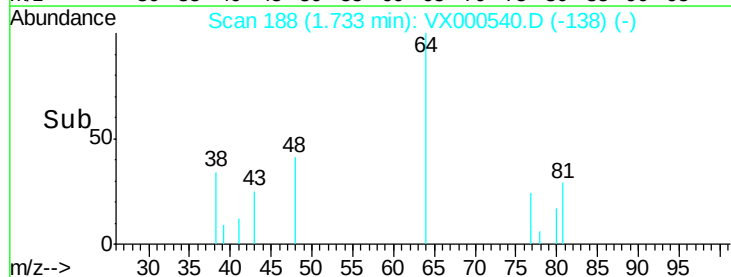
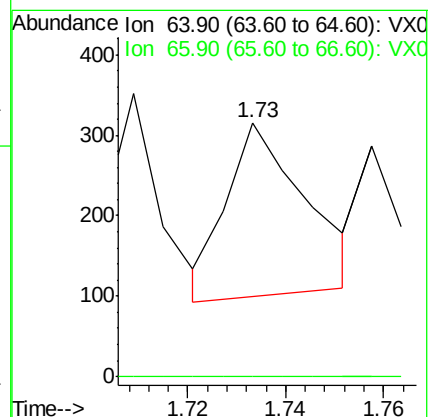
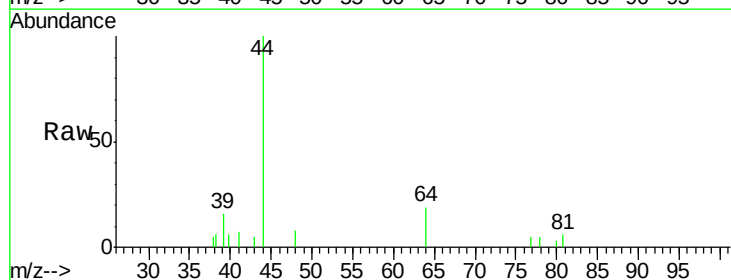
Acq: 30 Mar 2018 03:53

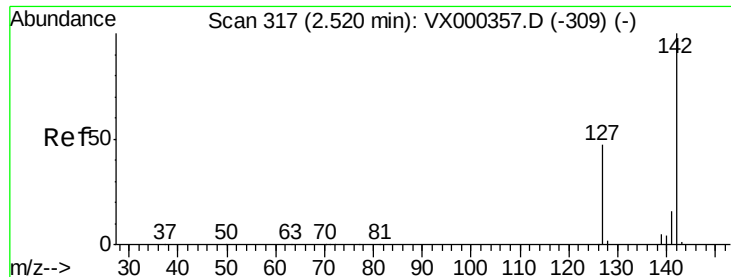
Tgt Ion: 64 Resp: 242

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#

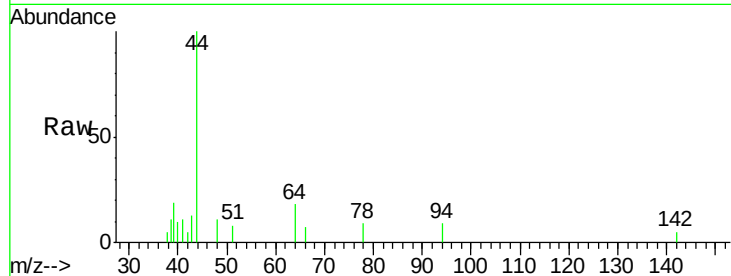




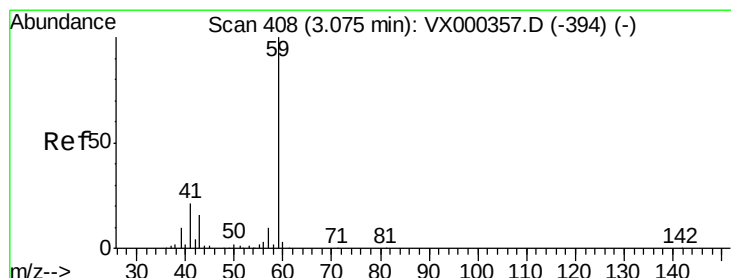
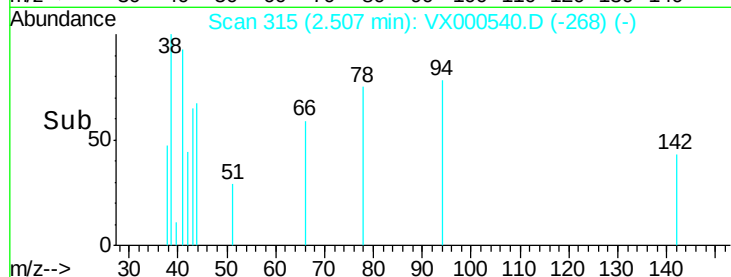
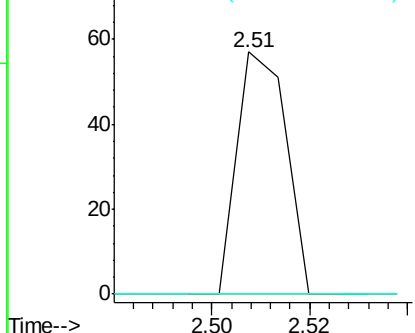
#10
Methyl Iodide
Concen: 4.30 ug/l
RT: 2.51 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX000540.D
Acq: 30 Mar 2018 03:53

Instrument :
MSVOA_X
ClientSampled :
LS-SOIL-2

Tgt Ion:142 Resp: 40
Ion Ratio Lower Upper
142 100
127 0.0 39.2 58.8#
141 0.0 11.7 17.5#

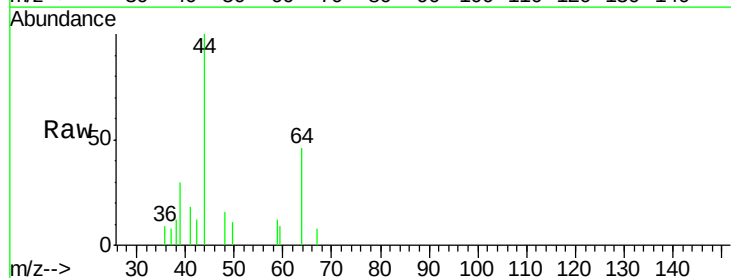


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

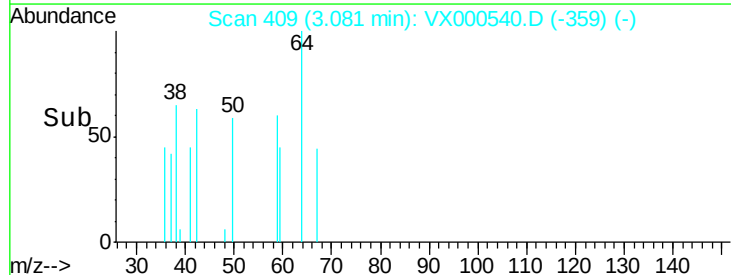
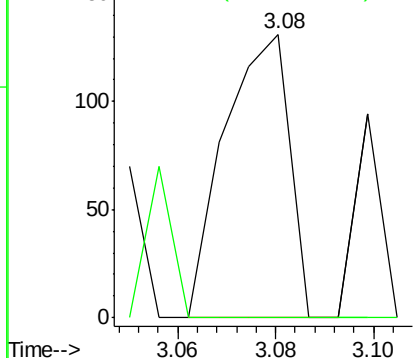


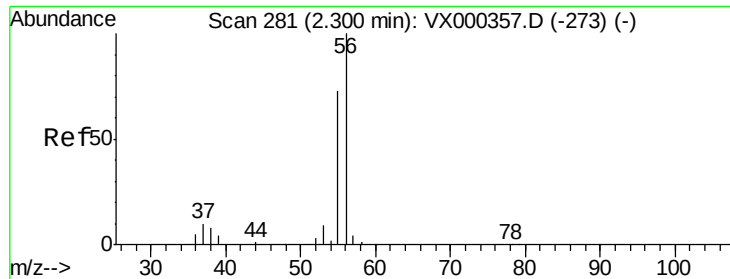
#11
Tert butyl alcohol
Concen: 0.25 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.01 min
Lab File: VX000540.D
Acq: 30 Mar 2018 03:53

Tgt Ion: 59 Resp: 120
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 14.93 ug/l

RT: 2.21 min Scan# 267

Delta R.T. -0.09 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampleId :

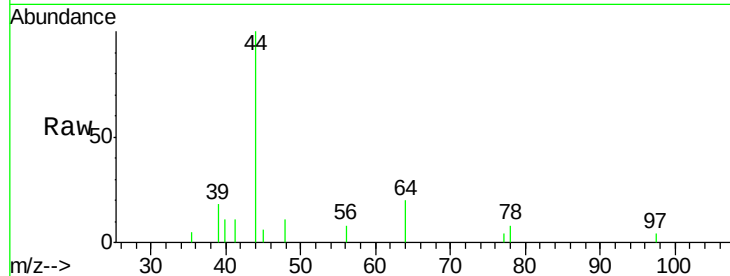
LS-SOIL-2

Tgt Ion: 56 Resp: 58

Ion Ratio Lower Upper

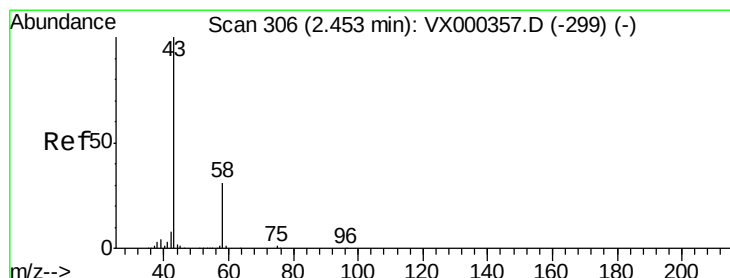
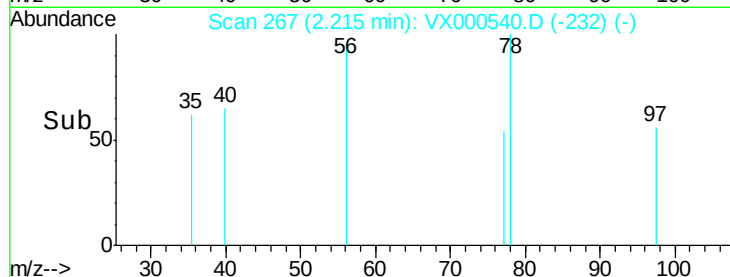
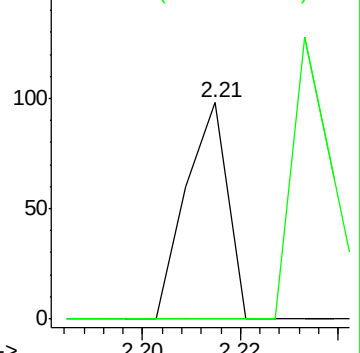
56 100

55 120.7 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.70 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000540.D

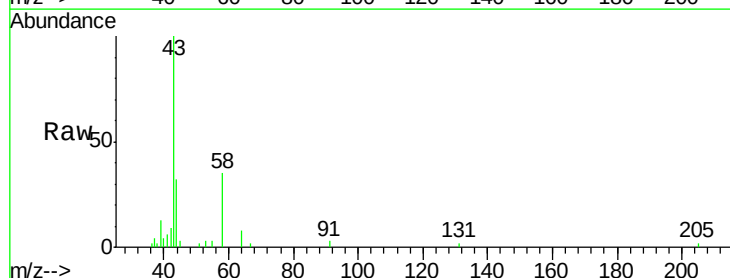
Acq: 30 Mar 2018 03:53

Tgt Ion: 43 Resp: 6614

Ion Ratio Lower Upper

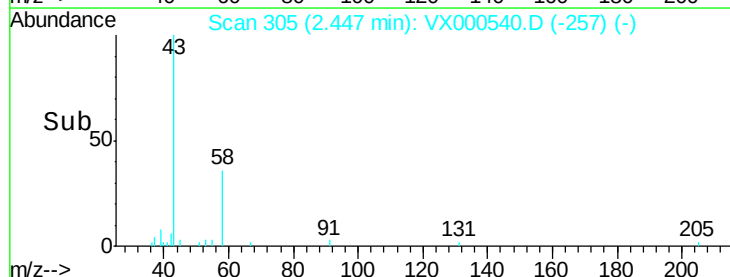
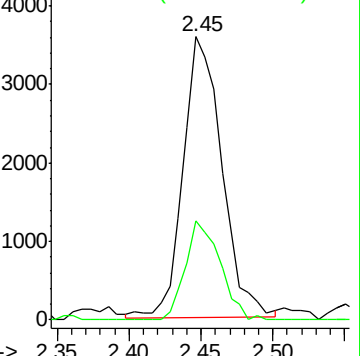
43 100

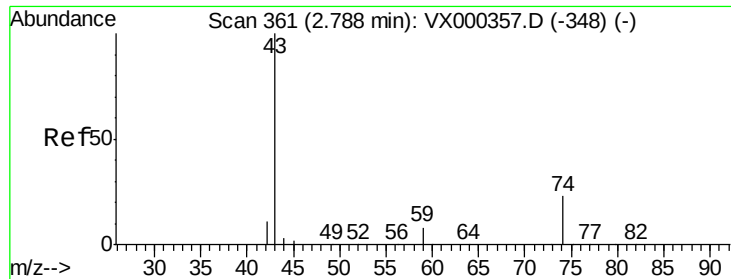
58 35.8 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

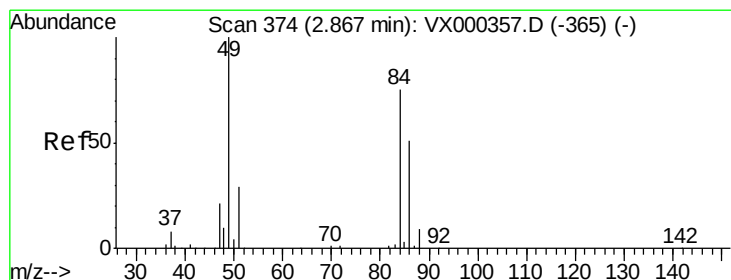
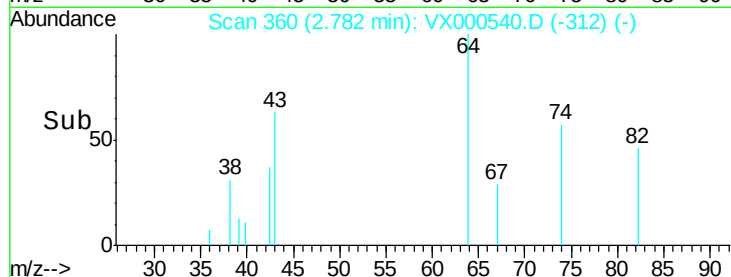
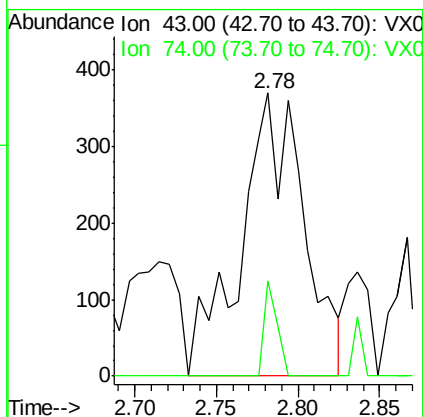
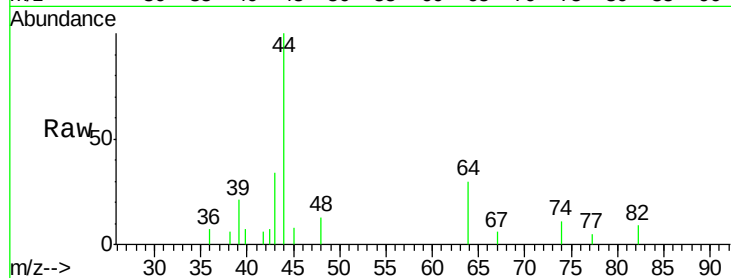




#18
Methyl Acetate
Concen: 0.41 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.01 min
Lab File: VX000540.D
Acq: 30 Mar 2018 03:53

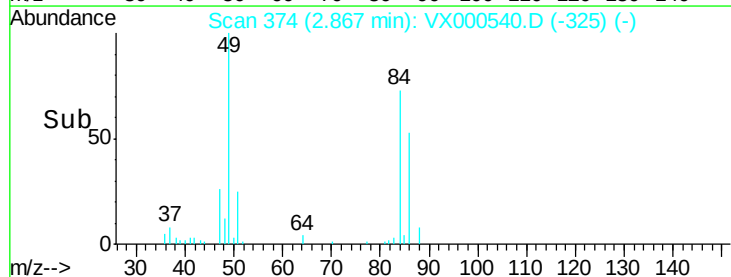
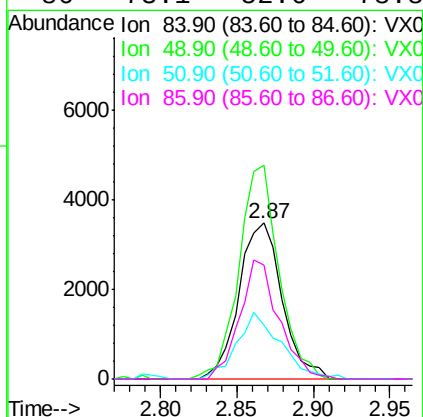
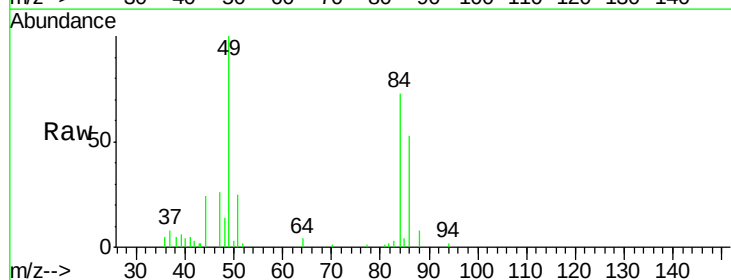
Instrument :
MSVOA_X
ClientSampled :
LS-SOIL-2

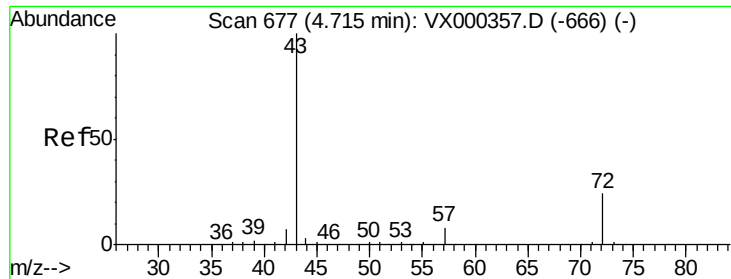
Tgt Ion: 43 Resp: 997
Ion Ratio Lower Upper
43 100
74 6.9 19.4 29.2#



#20
Methylene Chloride
Concen: 5.12 ug/l
RT: 2.87 min Scan# 374
Delta R.T. -0.00 min
Lab File: VX000540.D
Acq: 30 Mar 2018 03:53

Tgt Ion: 84 Resp: 6851
Ion Ratio Lower Upper
84 100
49 137.0 100.6 151.0
51 34.7 31.6 47.4
86 73.1 52.6 78.8





#25

2-Butanone

Concen: 0.69 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampled :

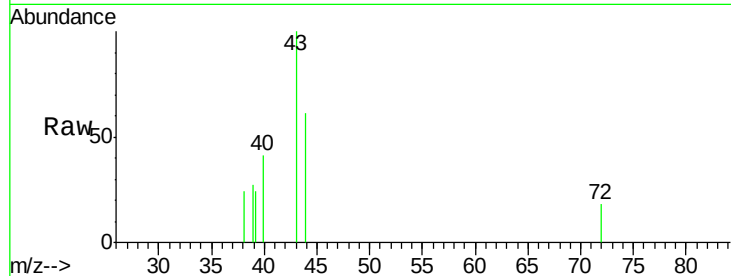
LS-SOIL-2

Tgt Ion: 43 Resp: 902

Ion Ratio Lower Upper

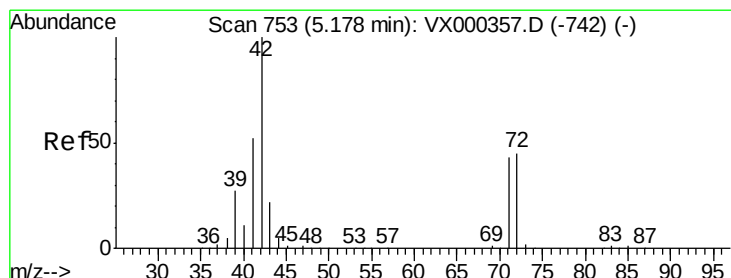
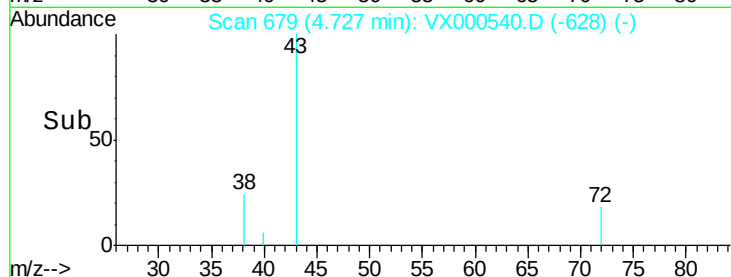
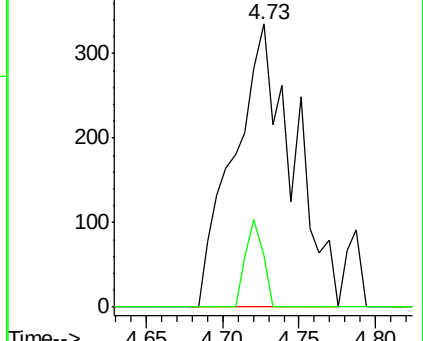
43 100

72 18.2 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.30 ug/l

RT: 5.18 min Scan# 753

Delta R.T. -0.00 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

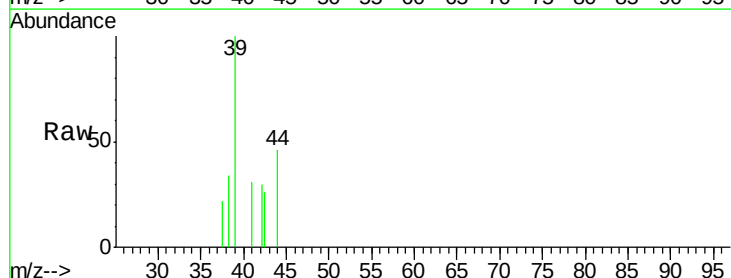
Tgt Ion: 42 Resp: 242

Ion Ratio Lower Upper

42 100

72 9.5 37.9 56.9#

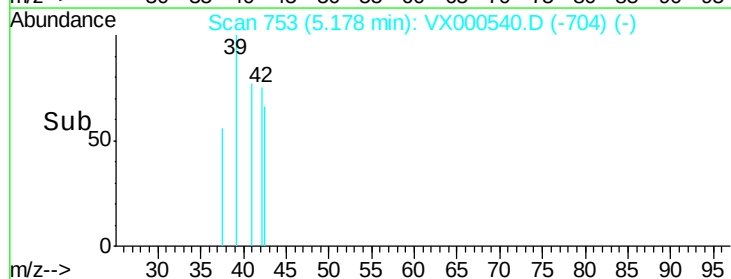
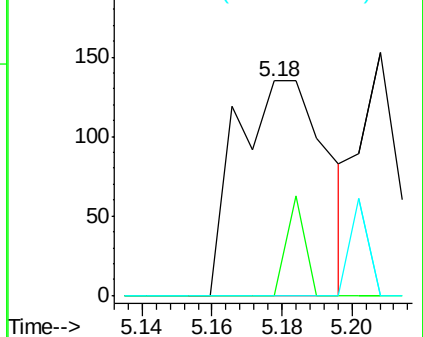
71 0.0 34.4 51.6#

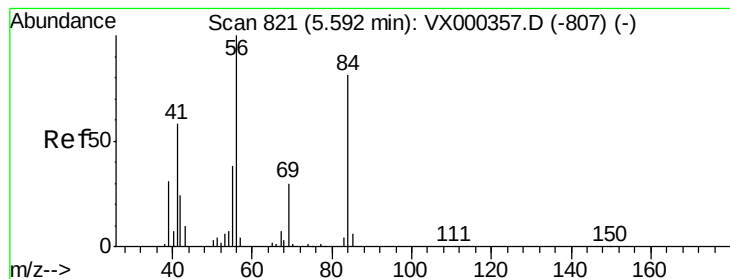


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.48 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.08 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-2

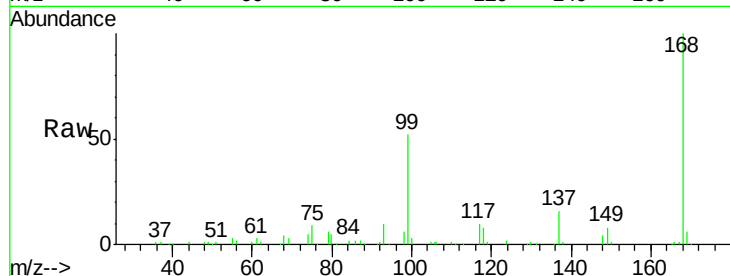
Tgt Ion: 56 Resp: 2594

Ion Ratio Lower Upper

56 100

69 130.5 23.4 35.0#

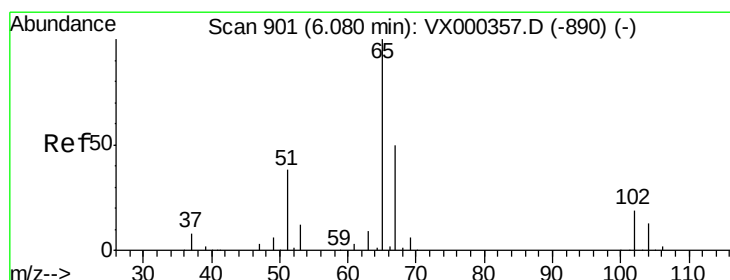
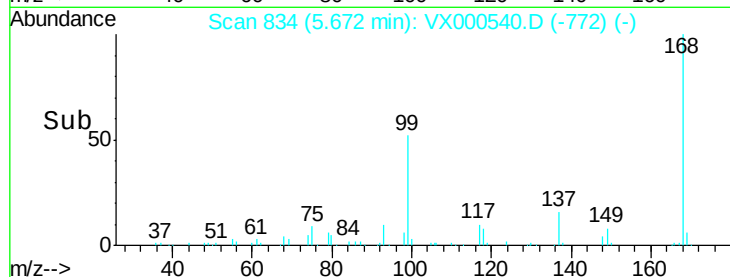
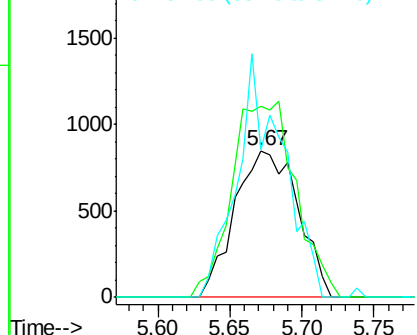
84 100.4 71.0 106.4



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: 56.34 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.00 min

Lab File: VX000540.D

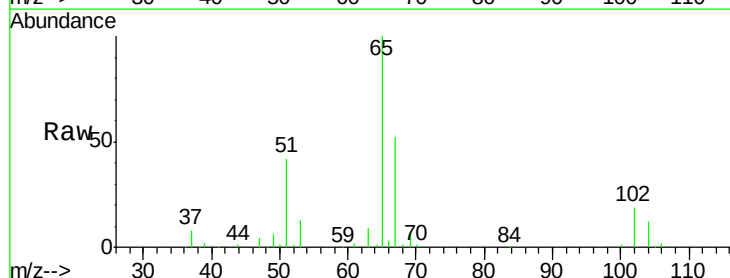
Acq: 30 Mar 2018 03:53

Tgt Ion: 65 Resp: 78521

Ion Ratio Lower Upper

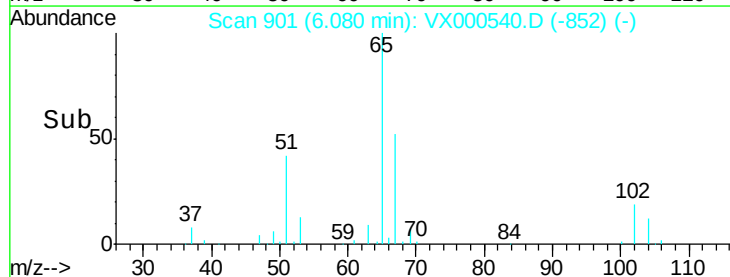
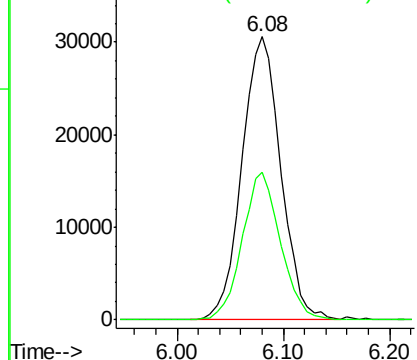
65 100

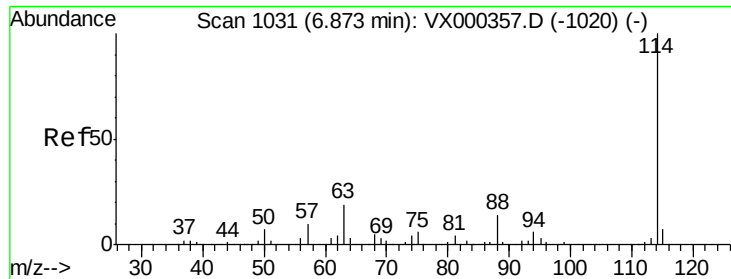
67 51.2 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

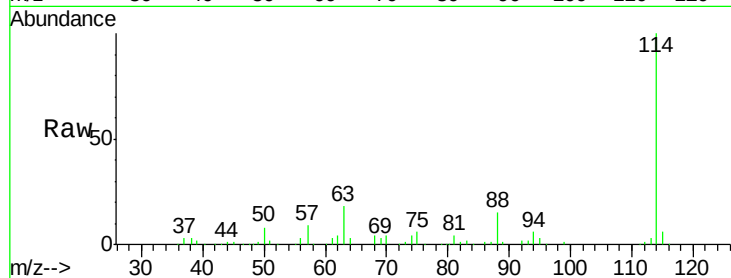




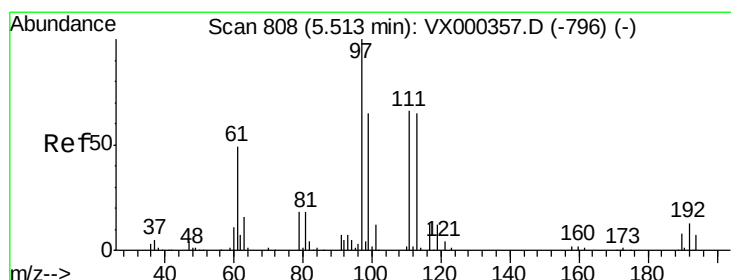
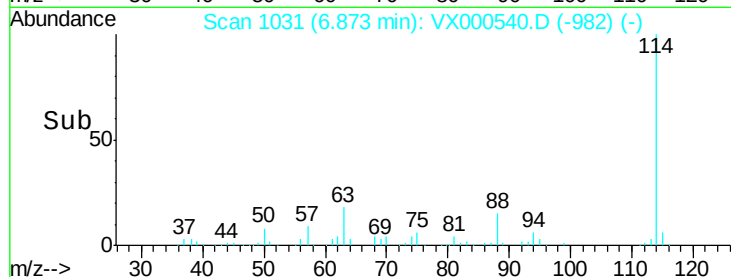
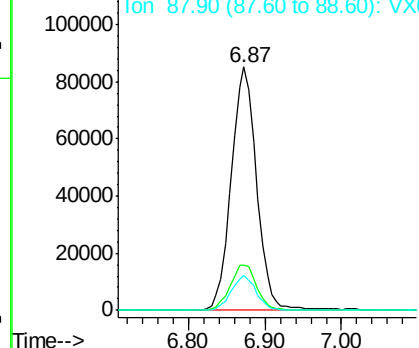
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000540.D
 Acq: 30 Mar 2018 03:53

Instrument :
 MSVOA_X
 ClientSampled :
 LS-SOIL-2

Tgt Ion:114 Resp: 195644
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 38.4
 88 14.6 0.0 27.0

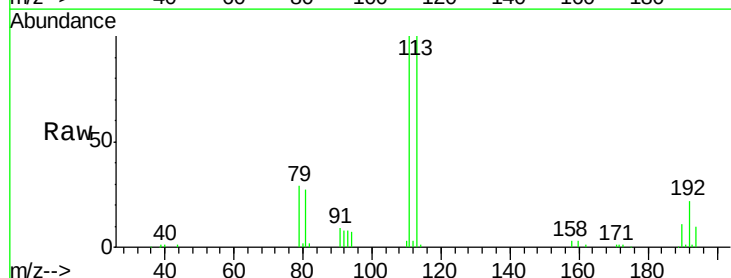


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

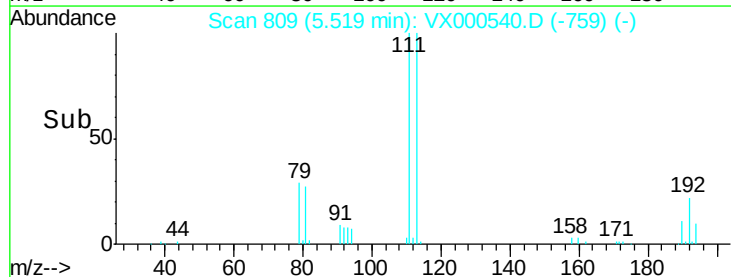
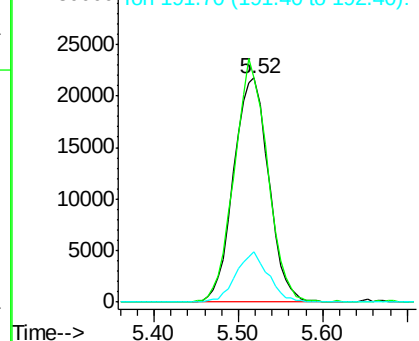


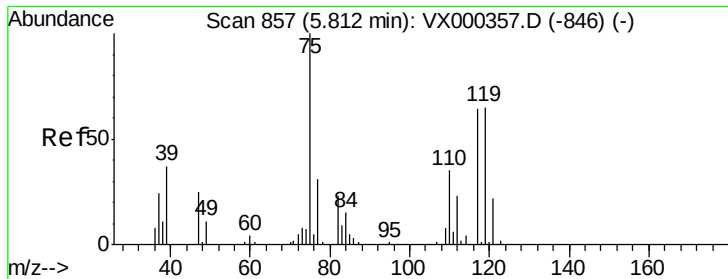
#35
 Dibromofluoromethane
 Concen: 49.75 ug/l
 RT: 5.52 min Scan# 809
 Delta R.T. 0.01 min
 Lab File: VX000540.D
 Acq: 30 Mar 2018 03:53

Tgt Ion:113 Resp: 61322
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.4 123.6
 192 20.7 15.8 23.6



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

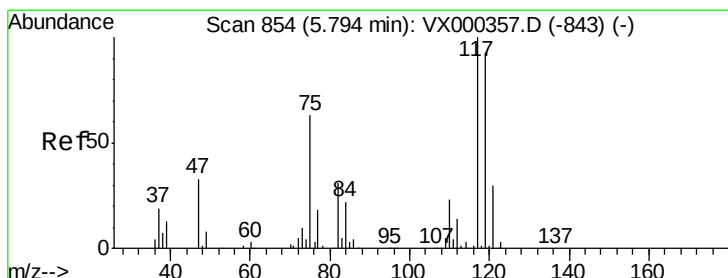
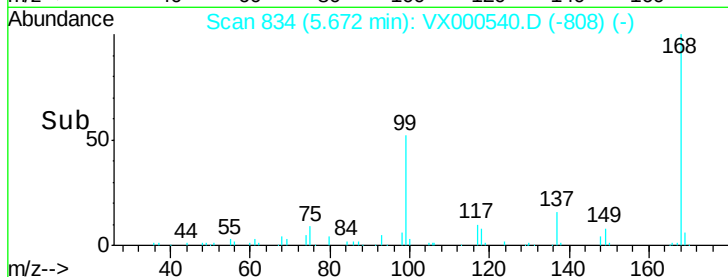
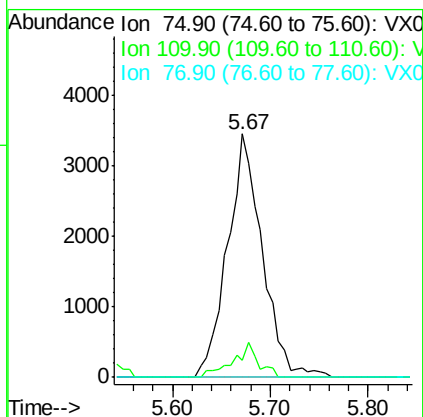
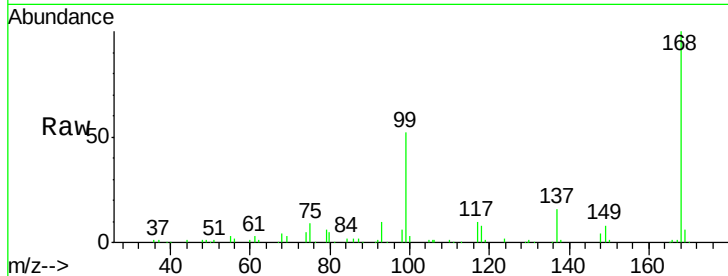




#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.14 min
 Lab File: VX000540.D
 Acq: 30 Mar 2018 03:53

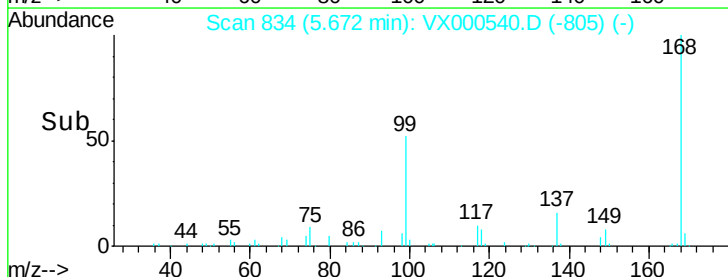
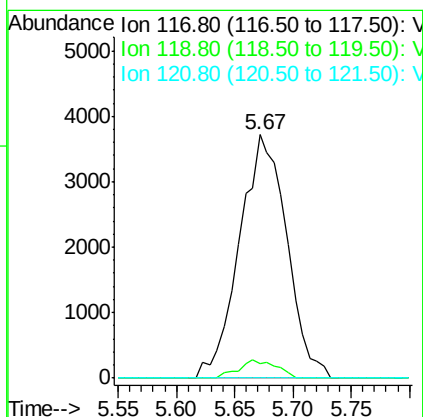
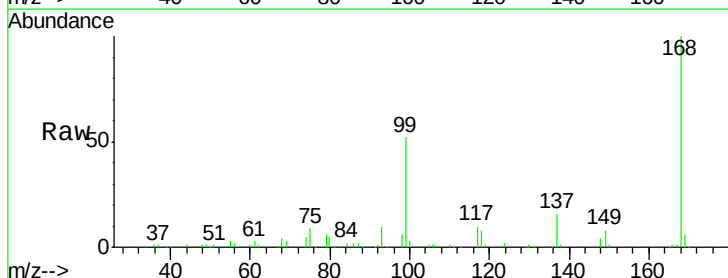
Instrument :
 MSVOA_X
 ClientSampleId :
 LS-SOIL-2

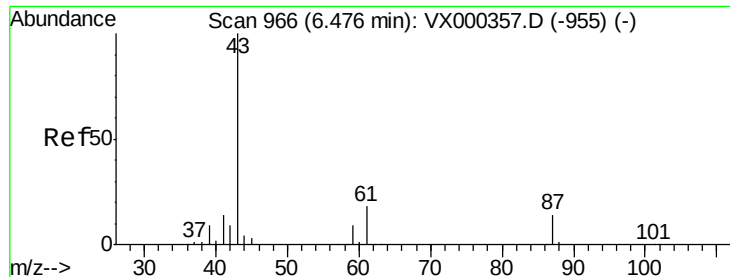
Tgt Ion: 75 Resp: 8489
 Ion Ratio Lower Upper
 75 100
 110 10.5 17.9 53.7#
 77 0.0 24.0 36.0#



#38
 Carbon Tetrachloride
 Concen: 5.45 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000540.D
 Acq: 30 Mar 2018 03:53

Tgt Ion: 117 Resp: 10474
 Ion Ratio Lower Upper
 117 100
 119 5.8 77.4 116.2#
 121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 0.40 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampled :

LS-SOIL-2

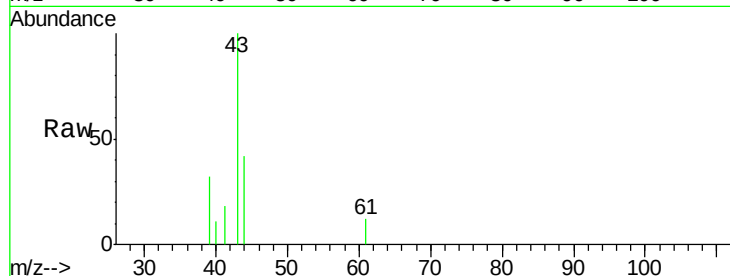
Tgt Ion: 43 Resp: 1477

Ion Ratio Lower Upper

43 100

61 11.0 14.4 21.6#

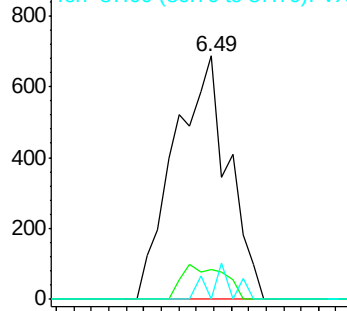
87 5.6 11.0 16.4#



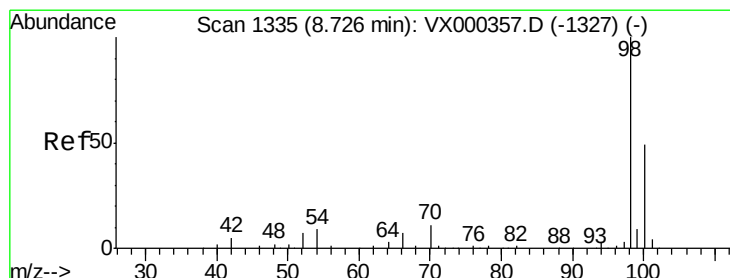
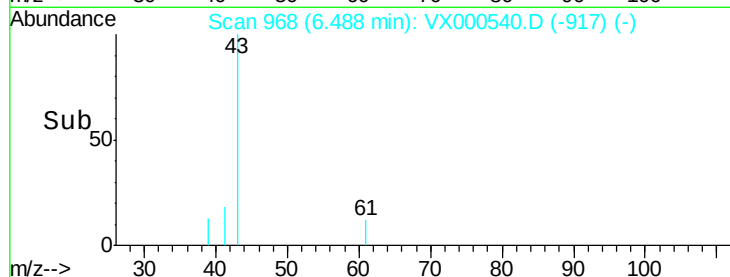
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



Time--> 6.40 6.45 6.50 6.55



#50

Toluene-d8

Concen: 49.88 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000540.D

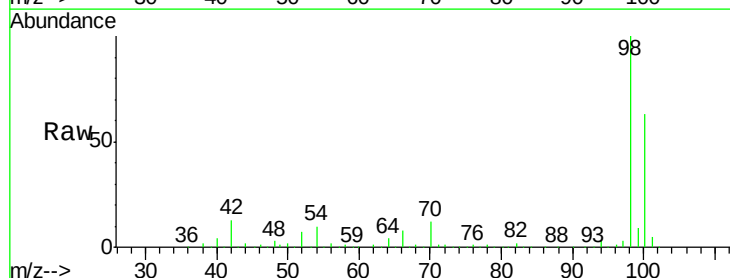
Acq: 30 Mar 2018 03:53

Tgt Ion: 98 Resp: 254677

Ion Ratio Lower Upper

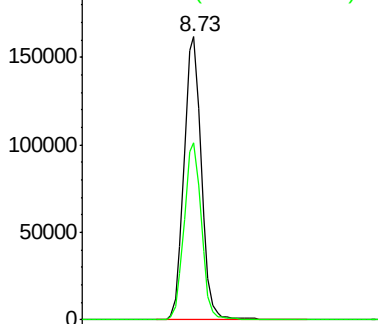
98 100

100 62.5 51.2 76.8

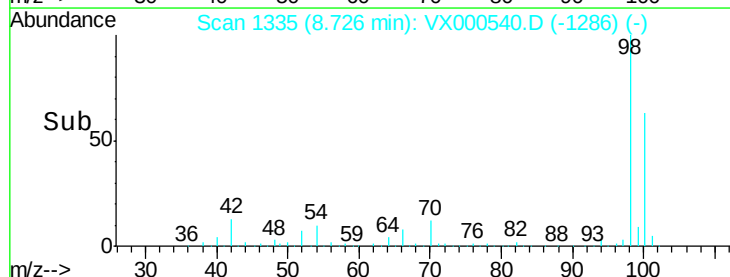


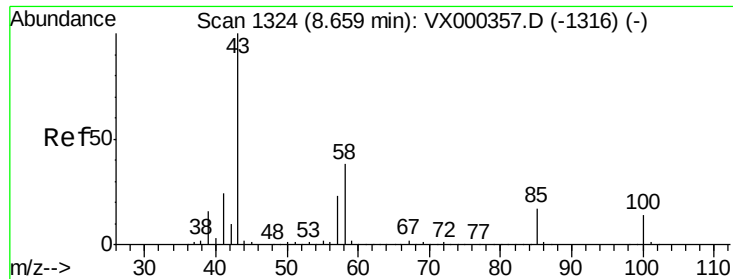
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time--> 8.60 8.70 8.80 8.90

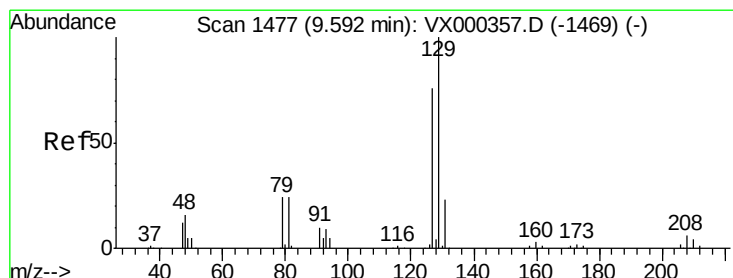
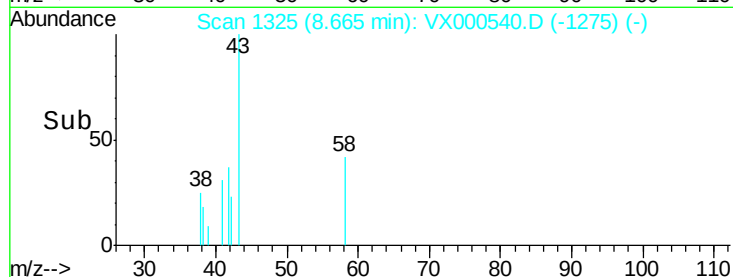
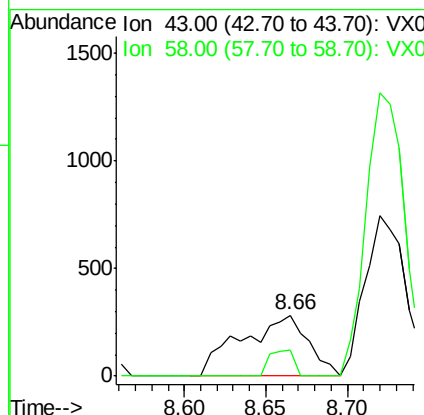
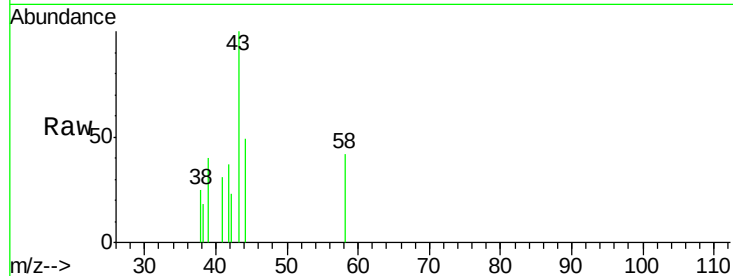




#51
 4-Methyl-2-Pentanone
 Concen: 0.28 ug/l
 RT: 8.66 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VX000540.D
 Acq: 30 Mar 2018 03:53

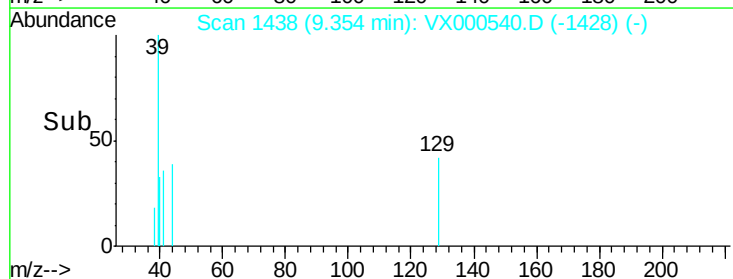
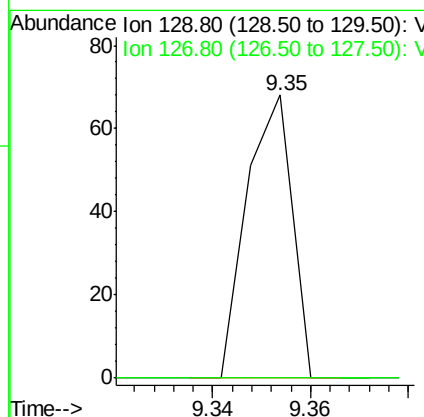
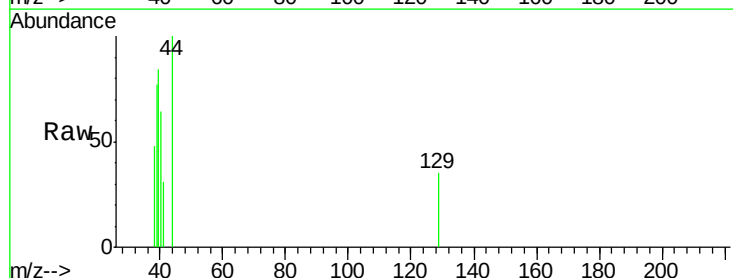
Instrument :
 MSVOA_X
 ClientSampled :
 LS-SOIL-2

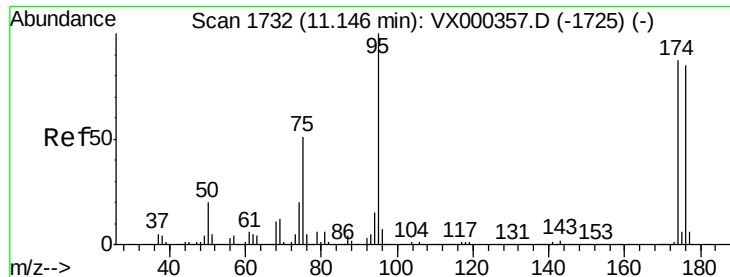
Tgt Ion: 43 Resp: 805
 Ion Ratio Lower Upper
 43 100
 58 15.4 30.3 45.5#



#60
 Dibromochloromethane
 Concen: 4.14 ug/l
 RT: 9.35 min Scan# 1438
 Delta R.T. -0.24 min
 Lab File: VX000540.D
 Acq: 30 Mar 2018 03:53

Tgt Ion: 129 Resp: 44
 Ion Ratio Lower Upper
 129 100
 127 0.0 37.9 113.6#





#62

4-Bromofluorobenzene

Concen: 41.39 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-2

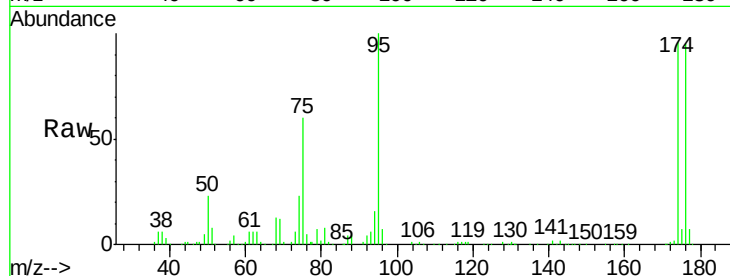
Tgt Ion: 95 Resp: 86676

Ion Ratio Lower Upper

95 100

174 94.4 0.0 173.6

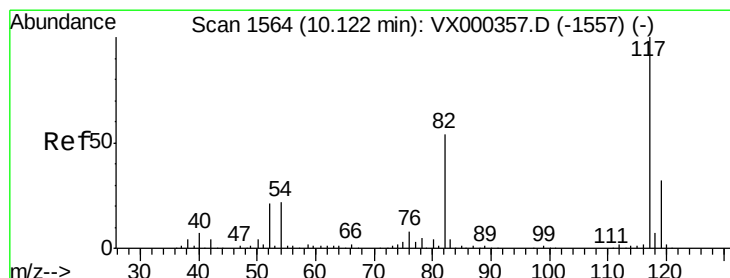
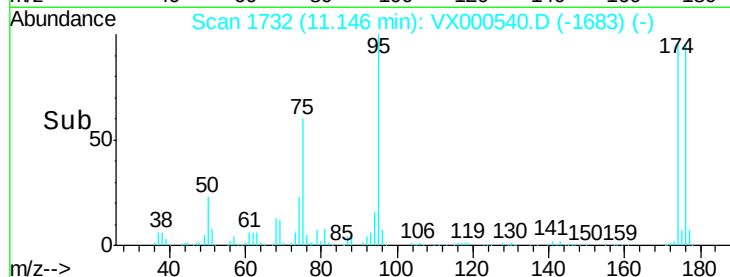
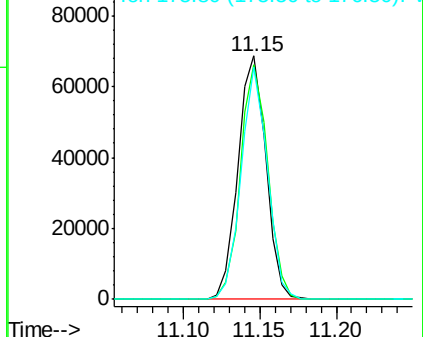
176 90.4 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX000540.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000540.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000540.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

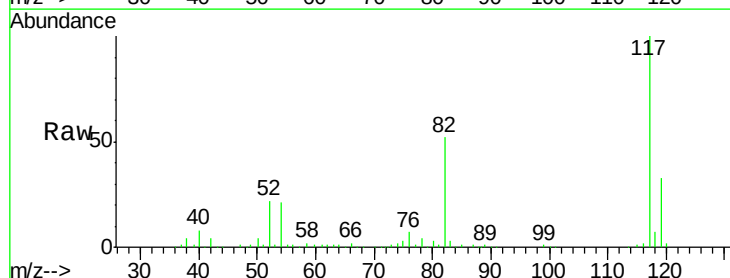
Tgt Ion: 117 Resp: 196348

Ion Ratio Lower Upper

117 100

82 51.8 43.8 65.8

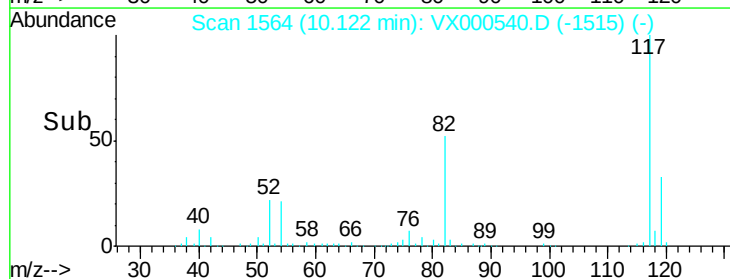
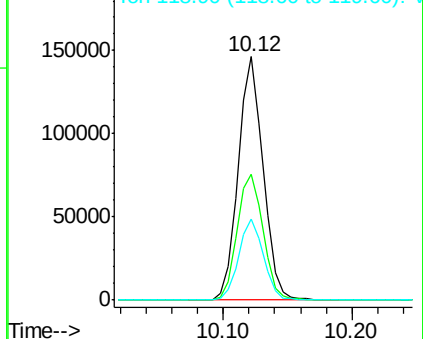
119 33.5 24.9 37.3

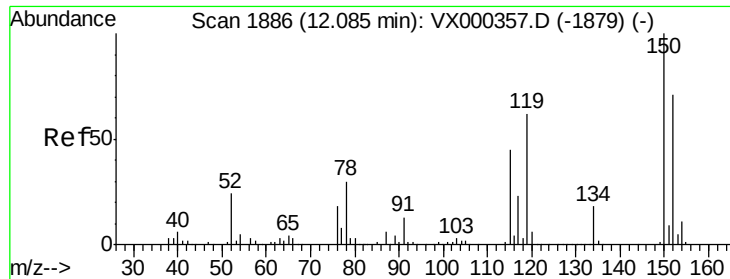


Abundance Ion 116.90 (116.60 to 117.60): VX000540.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000540.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000540.D (-1515) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampleId :

LS-SOIL-2

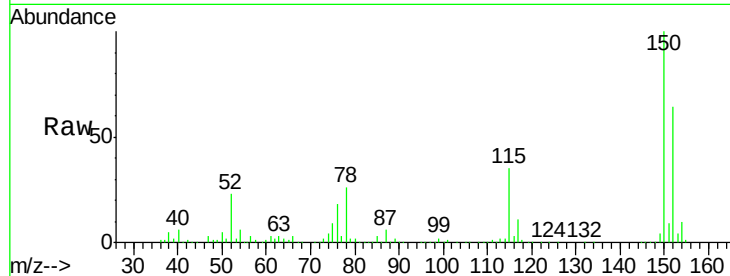
Tgt Ion:152 Resp: 106957

Ion Ratio Lower Upper

152 100

115 55.1 39.8 119.3

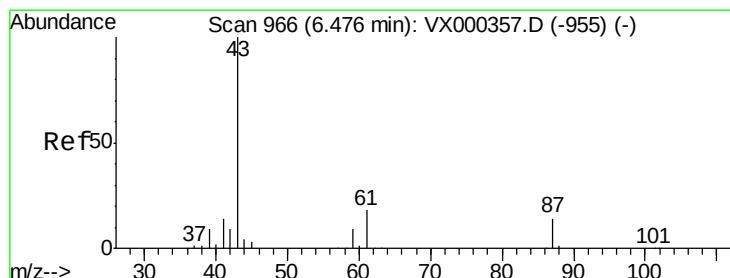
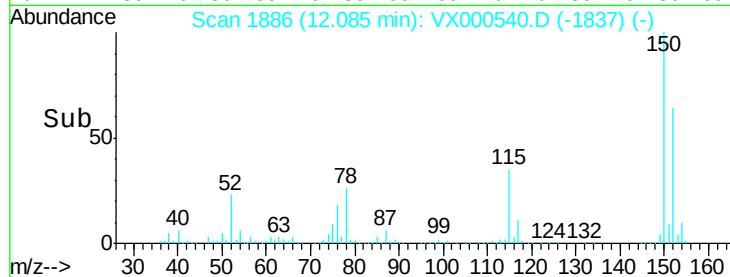
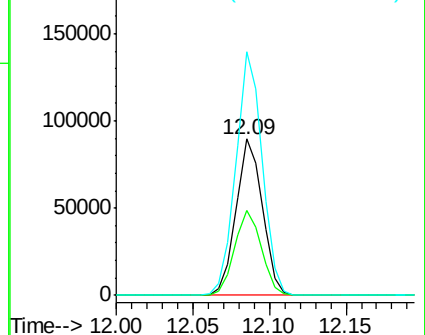
150 155.8 0.0 344.4



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



#74

N-amyl acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Tgt Ion: 43 Resp: 1477

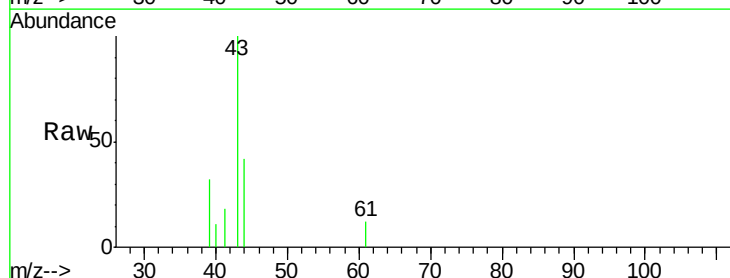
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 11.0 14.4 21.6#

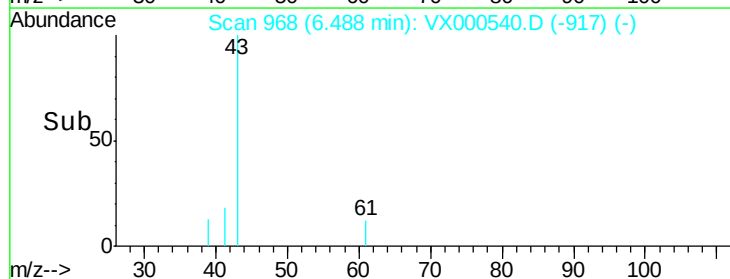
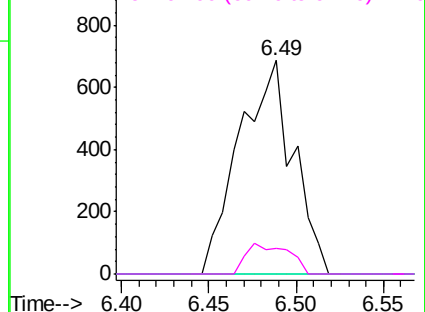


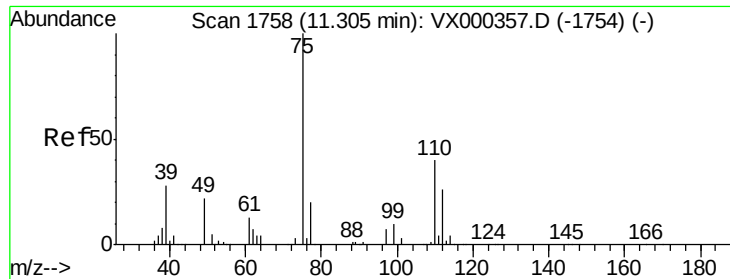
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.44 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

Instrument :

MSVOA_X

ClientSampleId :

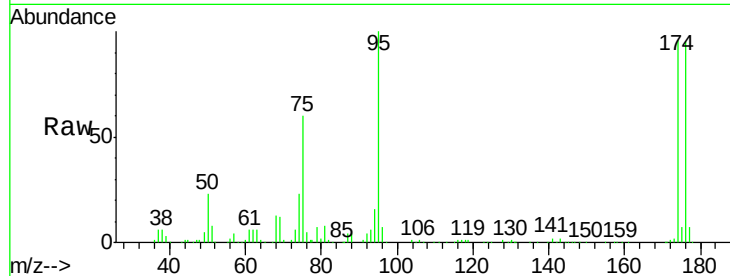
LS-SOIL-2

Tgt Ion: 75 Resp: 51584

Ion Ratio Lower Upper

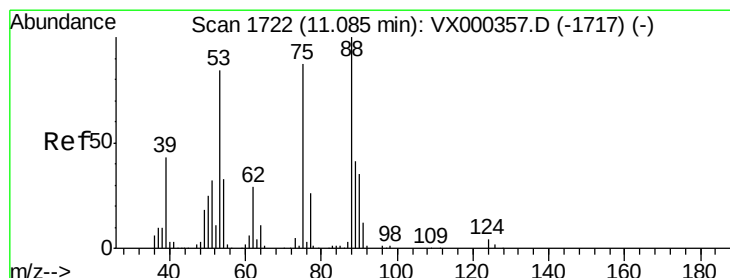
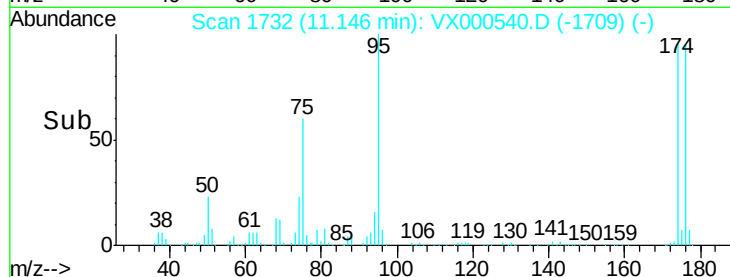
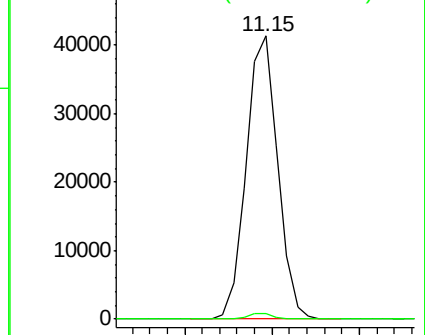
75 100

77 1.7 21.4 64.2#



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: 72.66 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000540.D

Acq: 30 Mar 2018 03:53

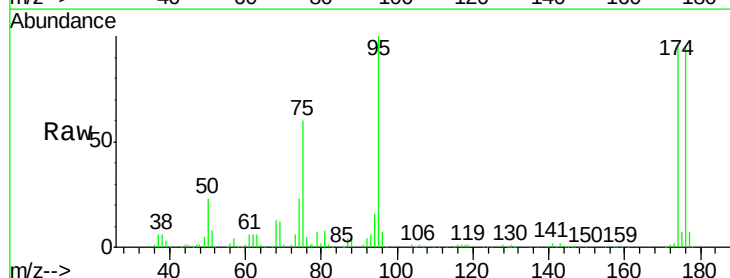
Tgt Ion: 75 Resp: 51584

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

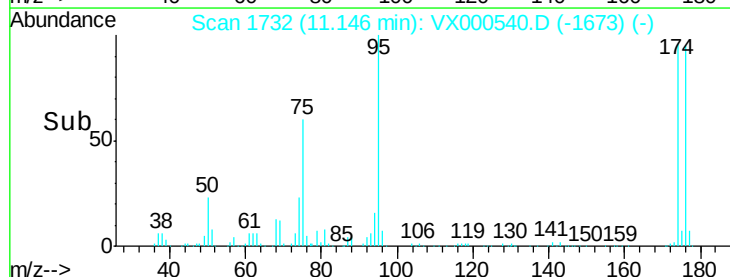
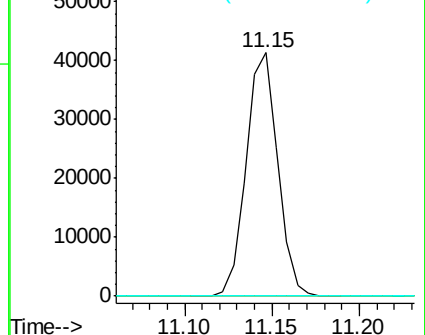
89 0.1 39.4 59.0#

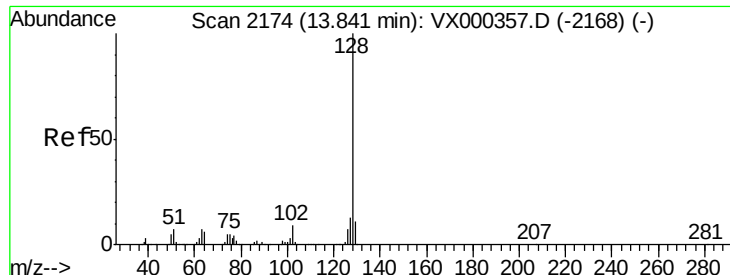


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 16.80 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000540.D
Acq: 30 Mar 2018 03:53

Instrument :
MSVOA_X
ClientSampleId :
LS-SOIL-2

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	15.8
129	11.2	8.9	13.3

