

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073118\
 Data File : VX003756.D
 Acq On : 31 Jul 2018 17:50
 Operator : JC/SP
 Sample : J4217-01
 Misc : 6.48G/5.0mL/MSVOA X/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-1

Quant Time: Aug 01 01:29:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 11:17:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	71596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	124271	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	96283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	45617	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	37901	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
35) Dibromofluoromethane	5.51	113	29948	40.93	ug/l	0.00
Spiked Amount			Recovery	=	81.86%	
50) Toluene-d8	8.72	98	111041	36.40	ug/l	0.00
Spiked Amount			Recovery	=	72.80%	
62) 4-Bromofluorobenzene	11.14	95	37531	33.36	ug/l	0.00
Spiked Amount			Recovery	=	66.72%	

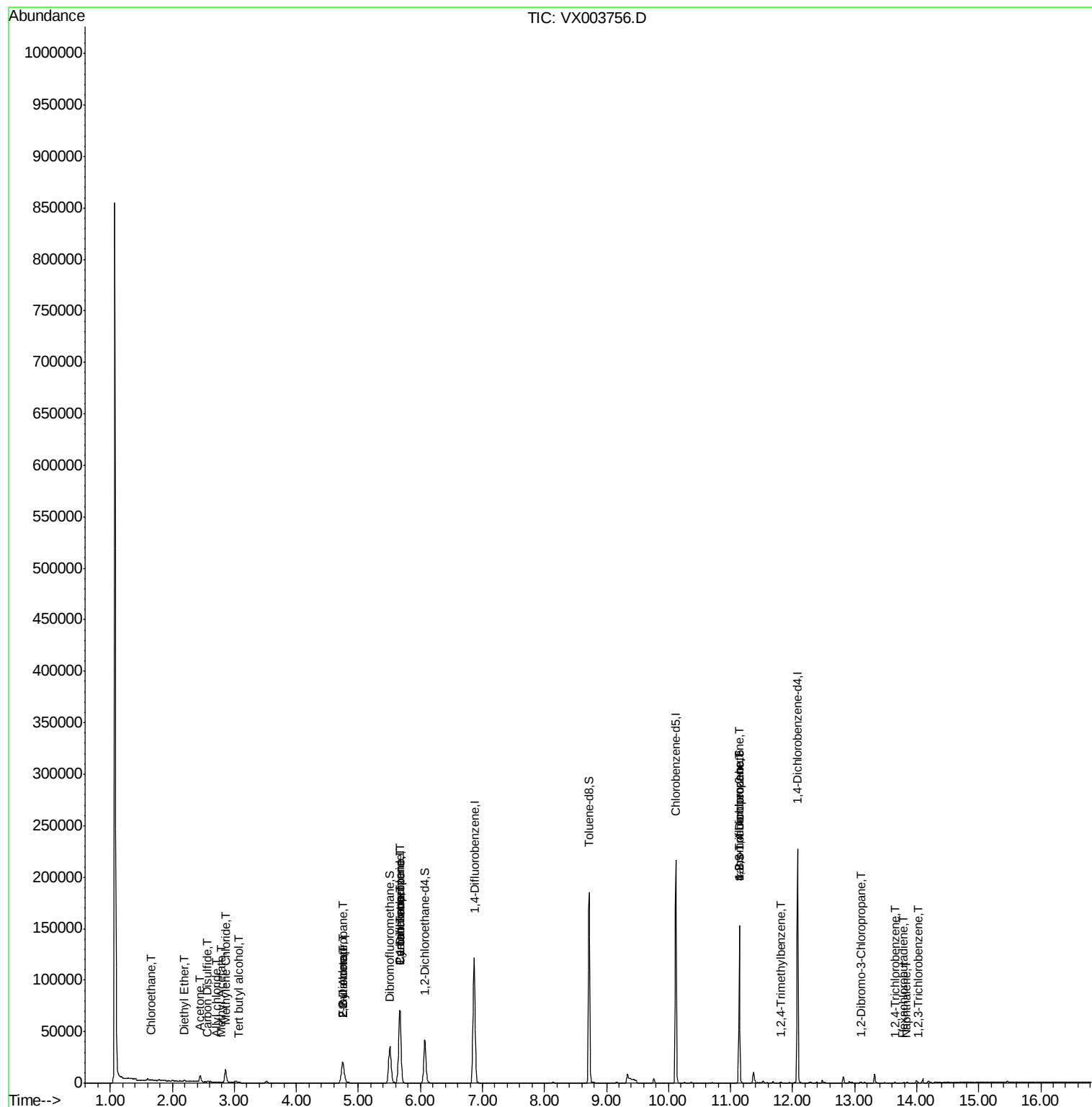
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	80	Below Cal	#	2
6) Chloroethane	1.66	64	317	0.59	ug/l #	42
8) Diethyl Ether	2.19	74	305	0.75	ug/l #	46
11) Tert butyl alcohol	3.07	59	274	2.34	ug/l #	73
14) Allyl chloride	2.71	41	262	0.23	ug/l #	44
16) Acetone	2.45	43	6127	22.15	ug/l	95
17) Carbon Disulfide	2.57	76	757	0.36	ug/l #	67
18) Methyl Acetate	2.78	43	320	0.41	ug/l #	52
20) Methylene Chloride	2.85	84	5617	4.83	ug/l	90
25) 2-Butanone	4.74	43	1448	3.59	ug/l #	49
26) 2,2-Dichloropropane	4.74	77	1622	1.72	ug/l #	51
31) Cyclohexane	5.66	56	1406	1.22	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	5371	4.62	ug/l #	48
37) Ethyl Acetate	4.74	43	1448	1.62	ug/l #	6
38) Carbon Tetrachloride	5.67	117	6620	6.15	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	18645	29.65	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	18645	87.83	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	545	0.22	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.10	75	39	0.26	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	263	0.24	ug/l	93
94) Hexachlorobutadiene	13.79	225	161	0.23	ug/l	78
95) Naphthalene	13.83	128	681	0.29	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.02	180	212	0.21	ug/l #	85

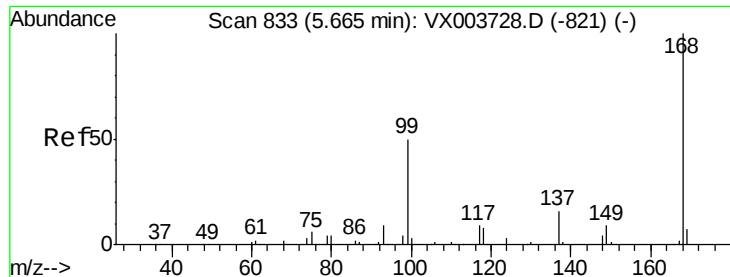
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX073118\
Data File : VX003756.D
Acq On : 31 Jul 2018 17:50
Operator : JC/SP
Sample : J4217-01
Misc : 6.48G/5.0mL/MSVOA X/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SOIL-1

Quant Time: Aug 01 01:29:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X073018S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 31 11:17:41 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampleId :

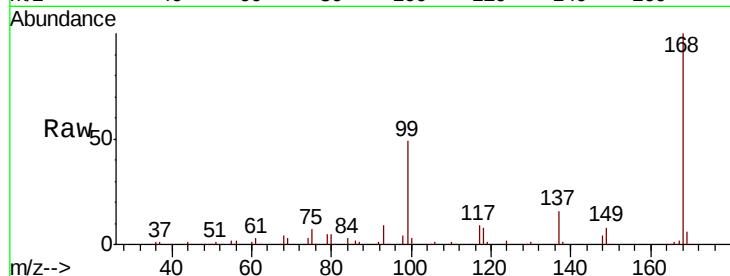
SOIL-1

Tot Ion:168 Resp: 71596

Ion Ratio Lower Upper

168 100

99 49.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

25000

20000

15000

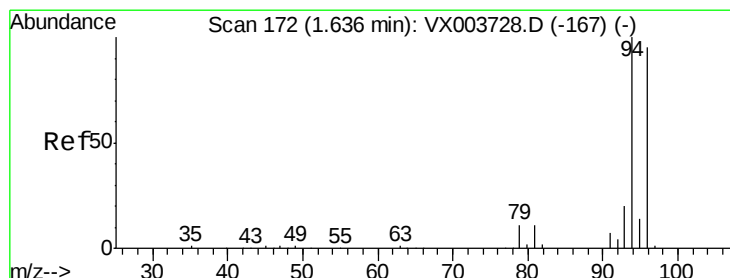
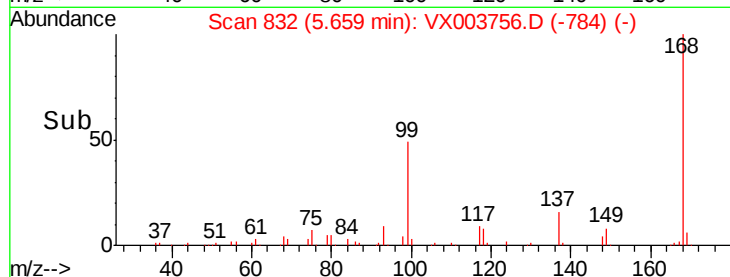
10000

5000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003756.D

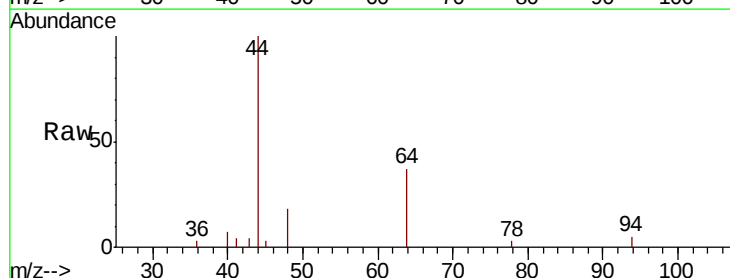
Acq: 31 Jul 2018 17:50

Tgt Ion: 94 Resp: 80

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

100

80

60

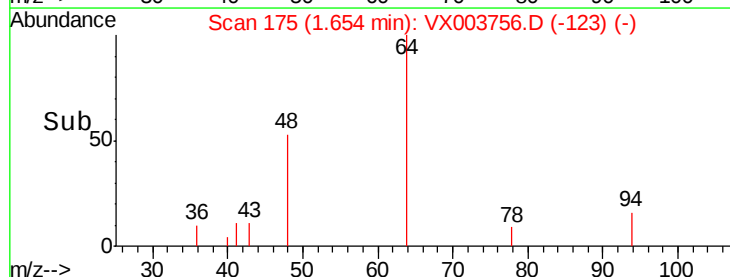
40

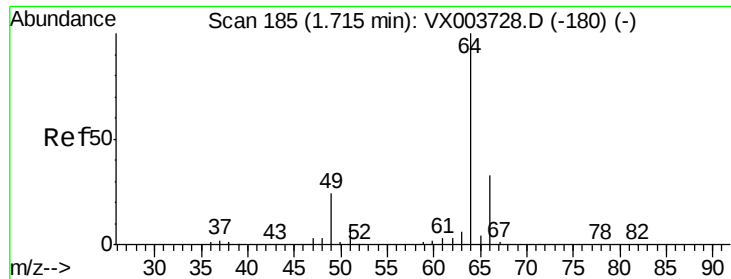
20

0

Time-->

1.62 1.64 1.66





#6

Chloroethane

Concen: 0.59 ug/l

RT: 1.66 min Scan# 176

Delta R.T. -0.05 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampled :

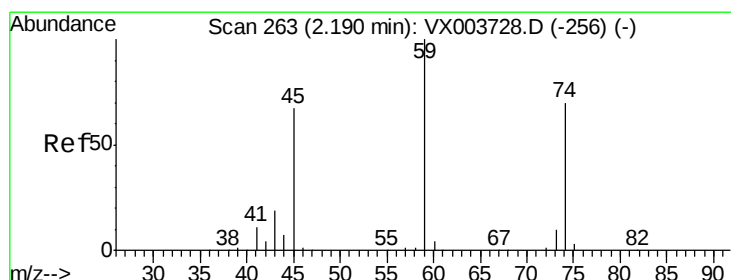
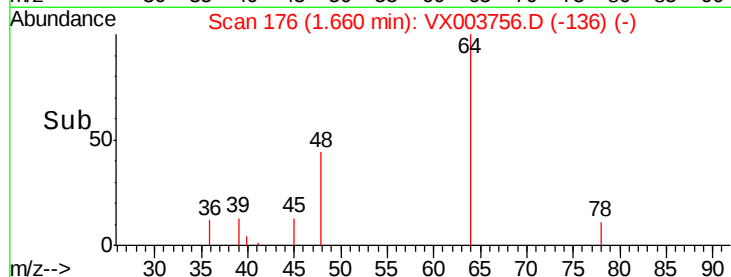
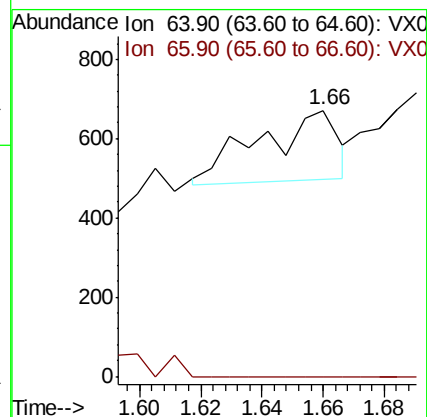
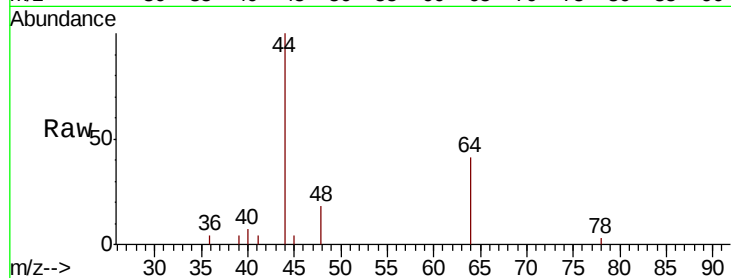
SOIL-1

Tot Ion: 64 Resp: 317

Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#



#8

Diethyl Ether

Concen: 0.75 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003756.D

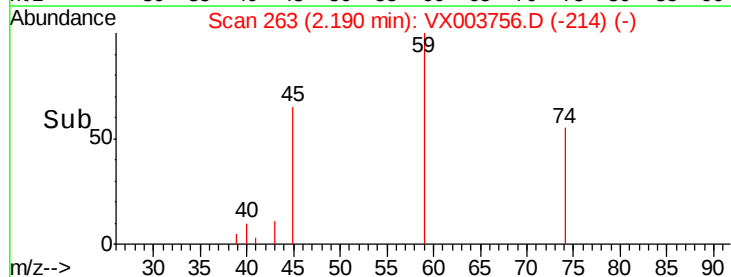
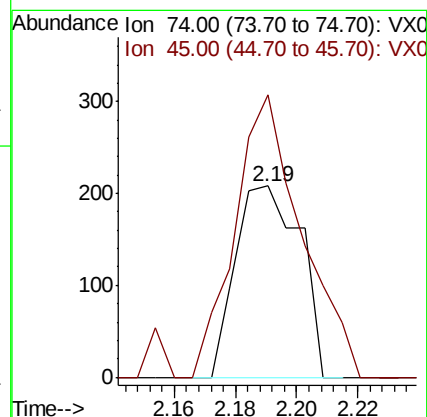
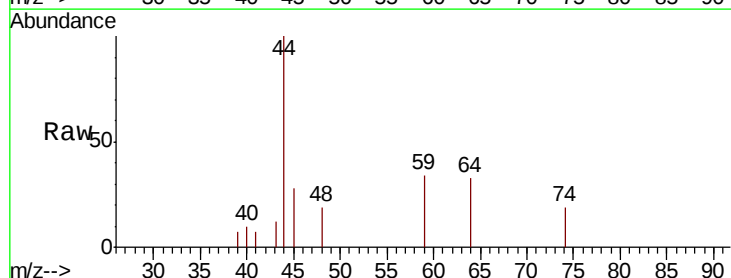
Acq: 31 Jul 2018 17:50

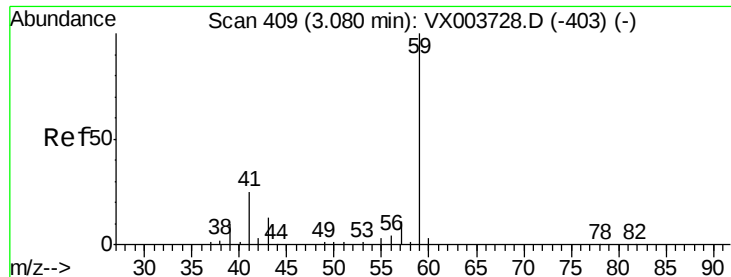
Tgt Ion: 74 Resp: 305

Ion Ratio Lower Upper

74 100

45 152.5 49.5 148.7#



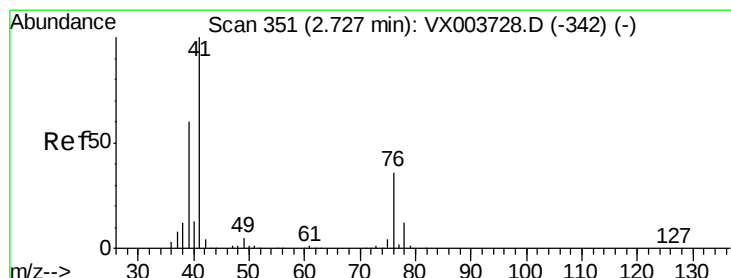
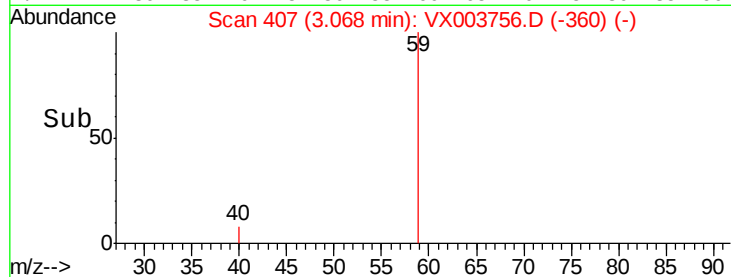
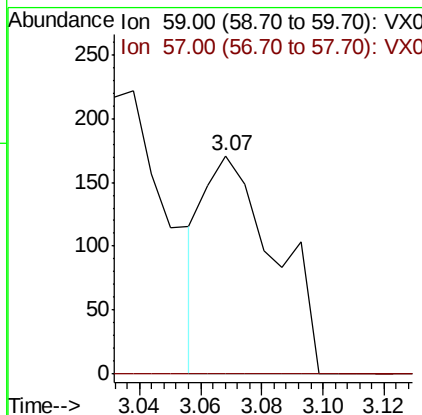
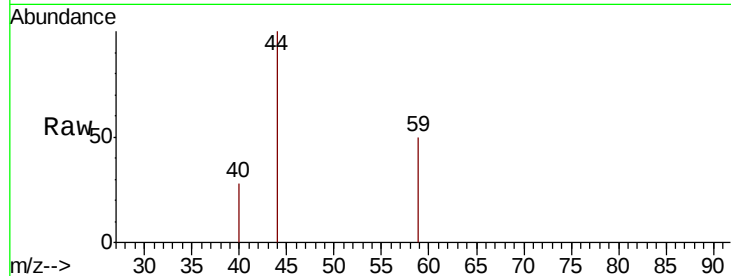


#11

Tert butyl alcohol
 Concen: 2.34 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX003756.D
 Acq: 31 Jul 2018 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-1

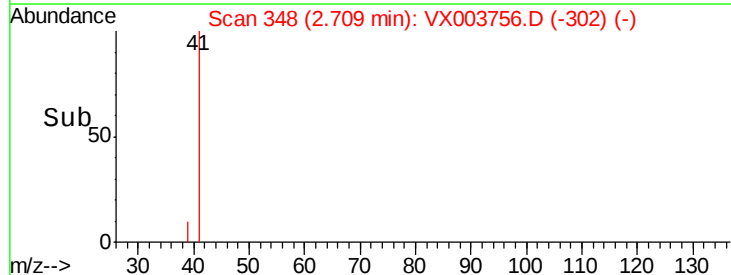
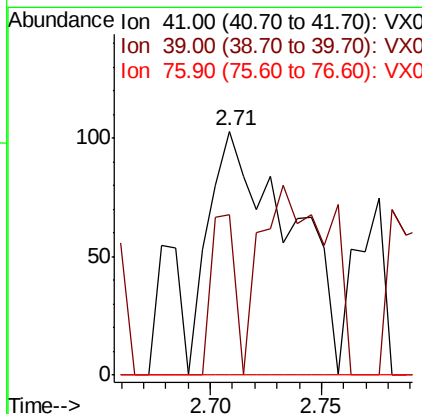
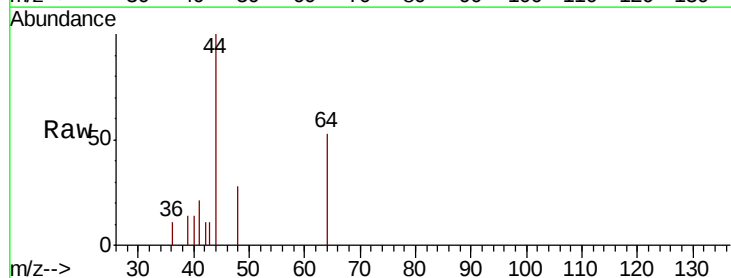
Tot Ion: 59 Resp: 274
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#

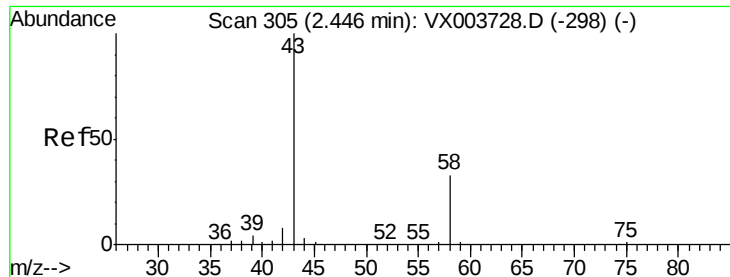


#14

Allyl chloride
 Concen: 0.23 ug/l
 RT: 2.71 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VX003756.D
 Acq: 31 Jul 2018 17:50

Tgt Ion: 41 Resp: 262
 Ion Ratio Lower Upper
 41 100
 39 18.7 47.7 71.5#
 76 0.0 27.0 40.6#





#16

Acetone

Concen: 22.15 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampled :

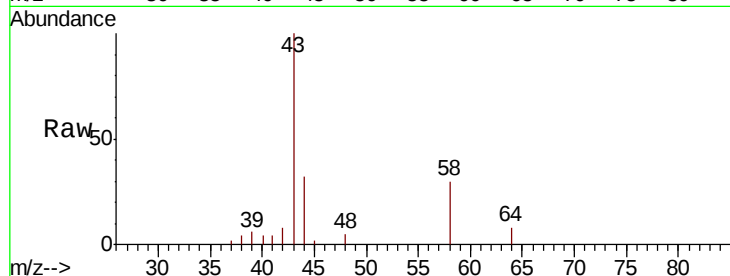
SOIL-1

Tot Ion: 43 Resp: 6127

Ion Ratio Lower Upper

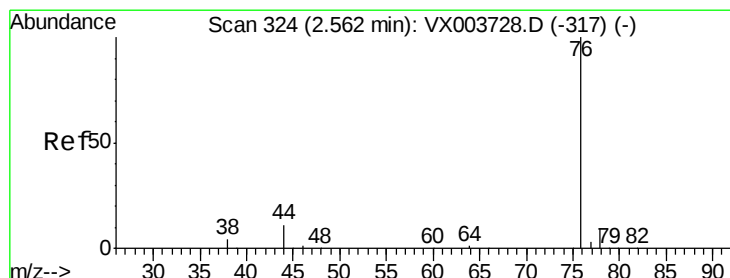
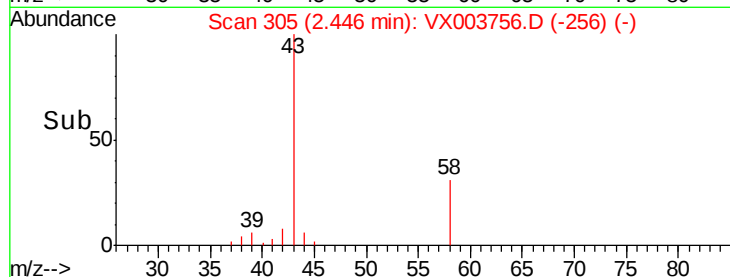
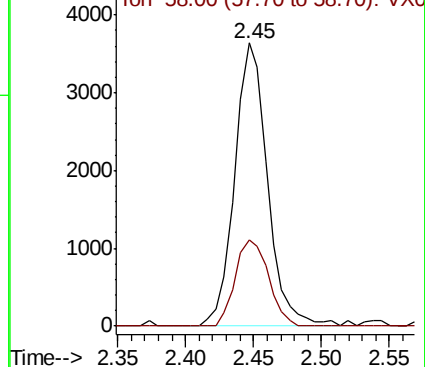
43 100

58 30.5 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.36 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003756.D

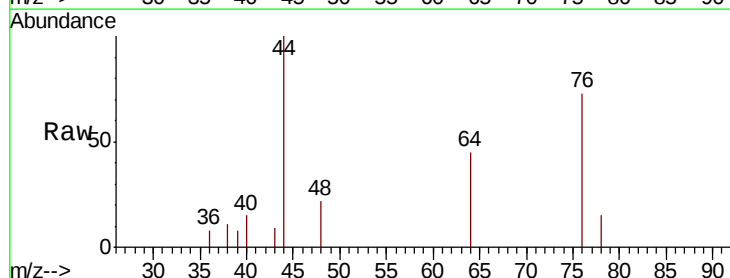
Acq: 31 Jul 2018 17:50

Tgt Ion: 76 Resp: 757

Ion Ratio Lower Upper

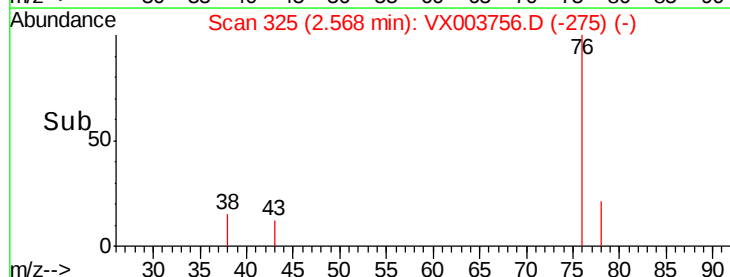
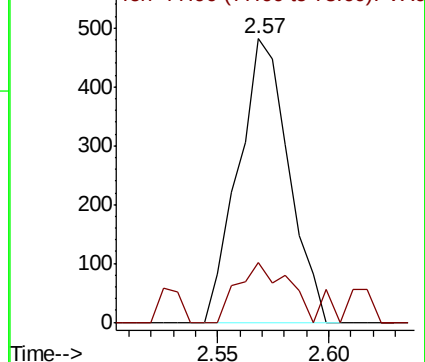
76 100

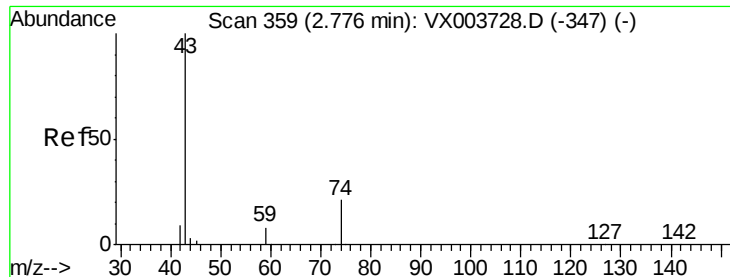
78 21.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

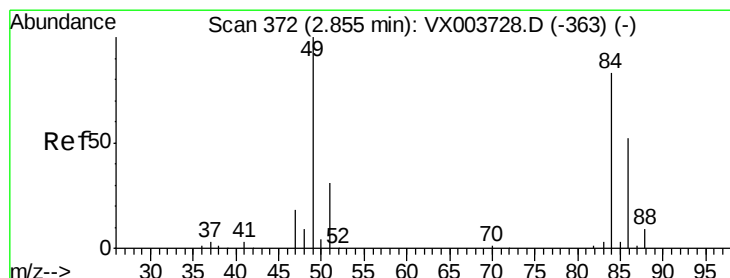
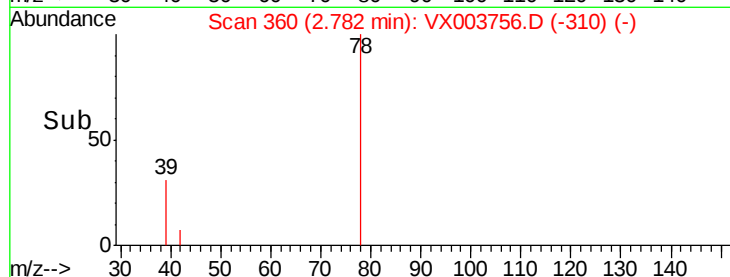
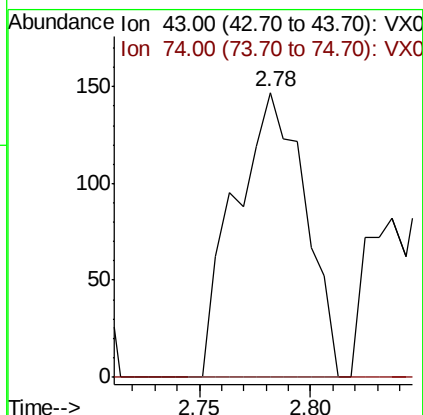
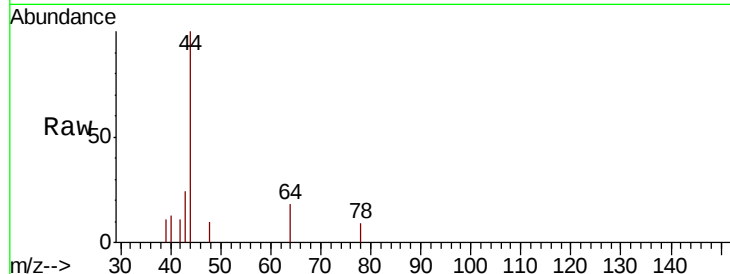




#18
Methyl Acetate
Concen: 0.41 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.01 min
Lab File: VX003756.D
Acq: 31 Jul 2018 17:50

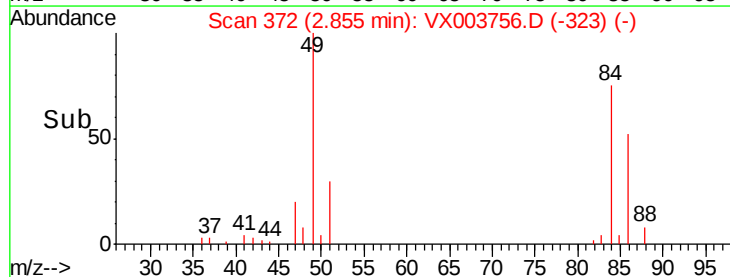
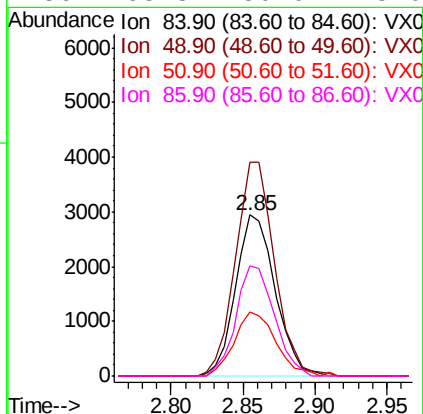
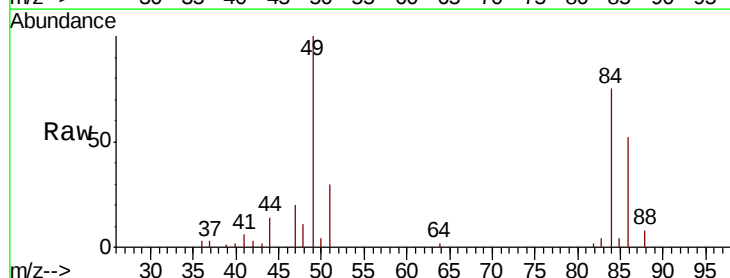
Instrument :
MSVOA_X
ClientSampled :
SOIL-1

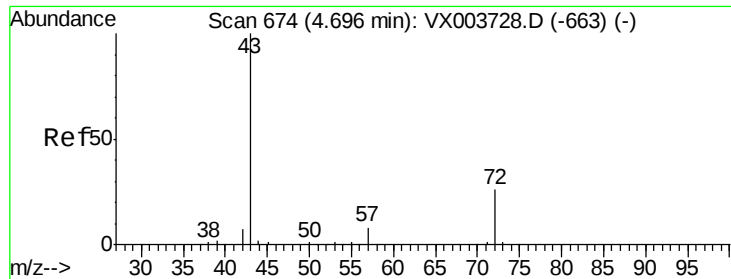
Tot Ion: 43 Resp: 320
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#20
Methylene Chloride
Concen: 4.83 ug/l
RT: 2.85 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003756.D
Acq: 31 Jul 2018 17:50

Tgt Ion: 84 Resp: 5617
Ion Ratio Lower Upper
84 100
49 132.9 95.8 143.8
51 40.1 29.6 44.4
86 68.8 50.0 75.0





#25

2-Butanone

Concen: 3.59 ug/l

RT: 4.74 min Scan# 682

Delta R.T. 0.05 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampled :

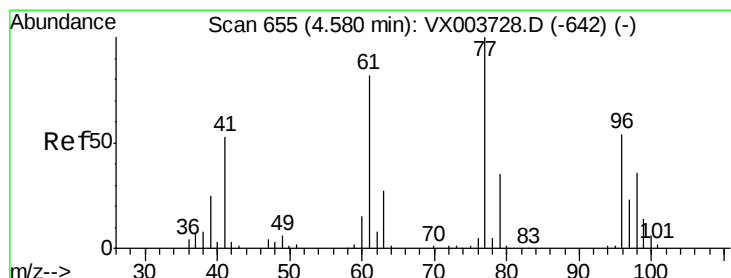
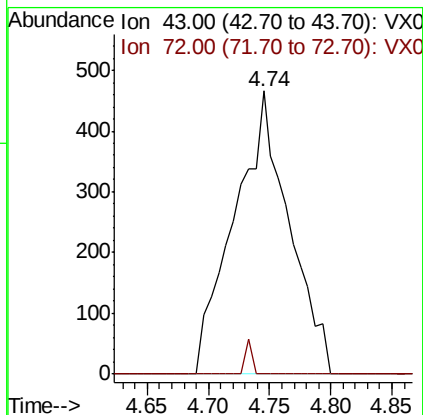
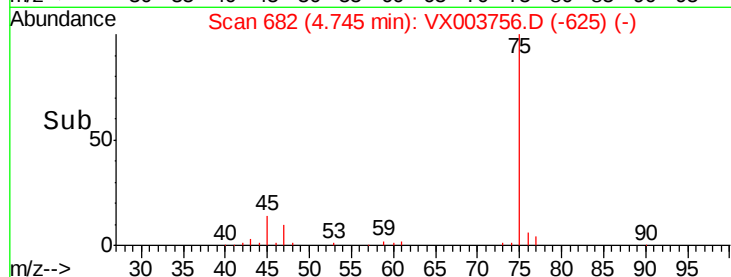
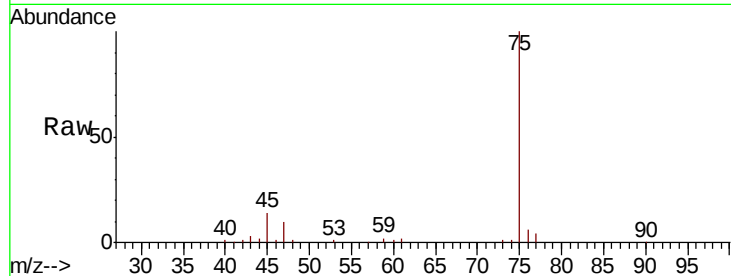
SOIL-1

Tot Ion: 43 Resp: 1448

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



#26

2,2-Dichloropropane

Concen: 1.72 ug/l

RT: 4.74 min Scan# 682

Delta R.T. 0.16 min

Lab File: VX003756.D

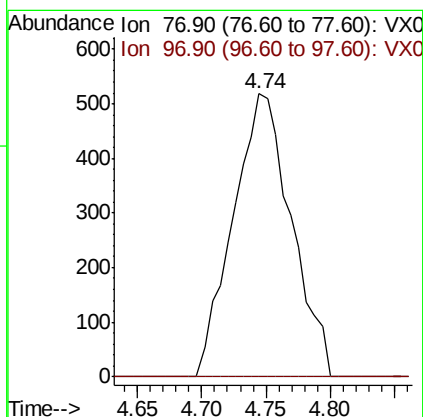
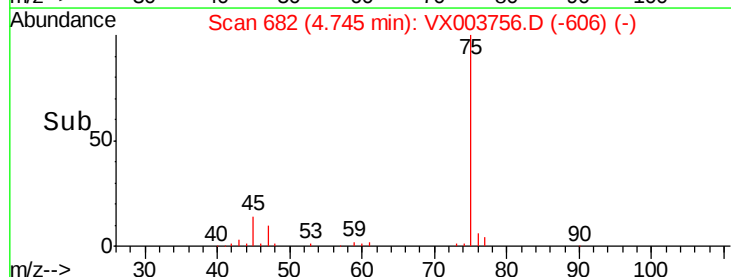
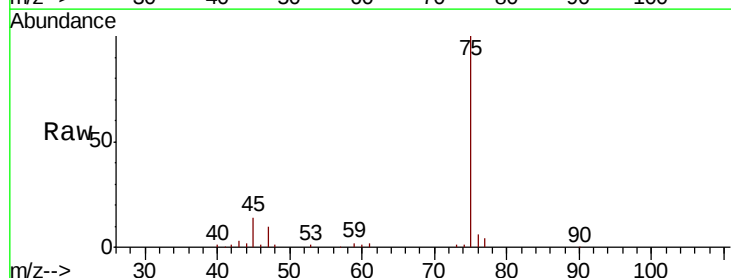
Acq: 31 Jul 2018 17:50

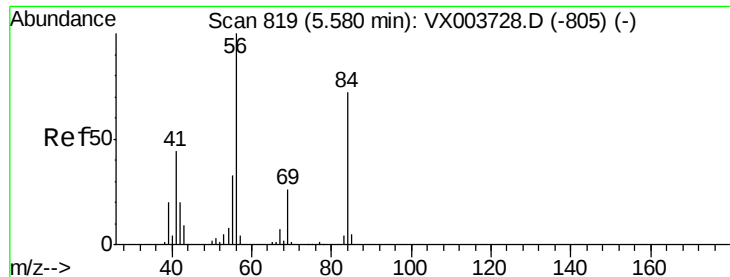
Tgt Ion: 77 Resp: 1622

Ion Ratio Lower Upper

77 100

97 0.0 12.2 36.6#

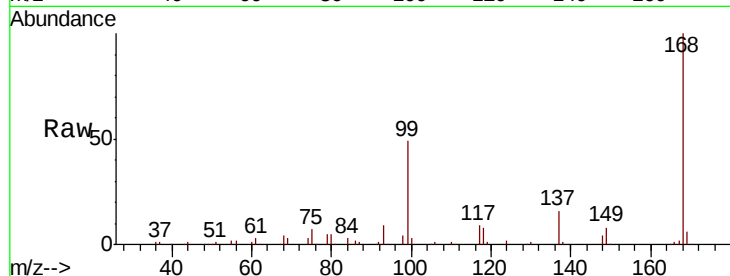




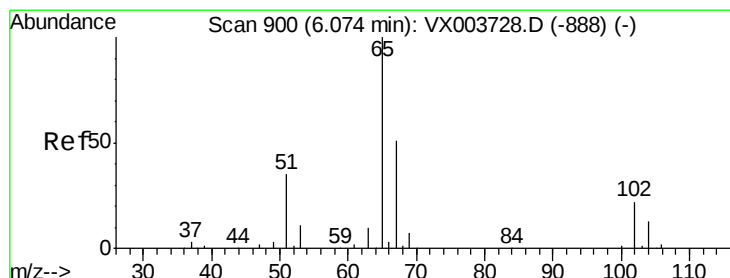
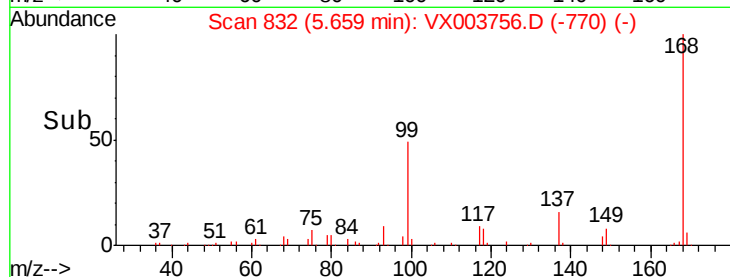
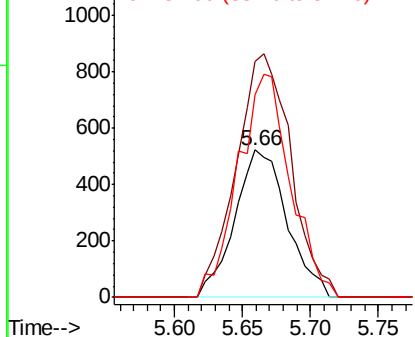
#31
Cvclohexane
Concen: 1.22 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX003756.D
Acq: 31 Jul 2018 17:50

Instrument :
MSVOA_X
ClientSampled :
SOIL-1

Tot Ion: 56 Resp: 1406
Ion Ratio Lower Upper
56 100
69 160.2 20.6 30.8#
84 137.9 57.9 86.9#

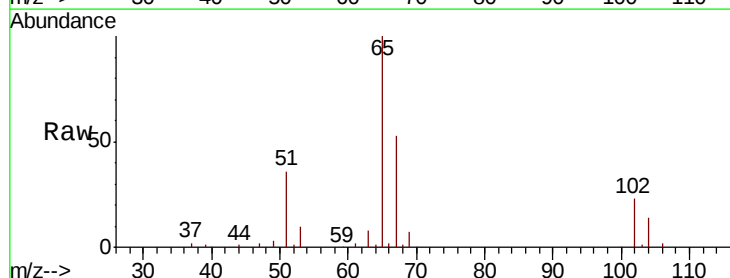


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

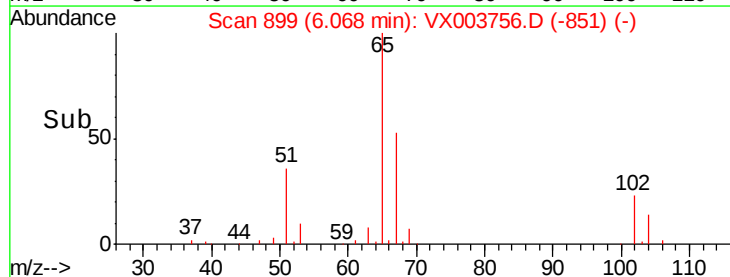
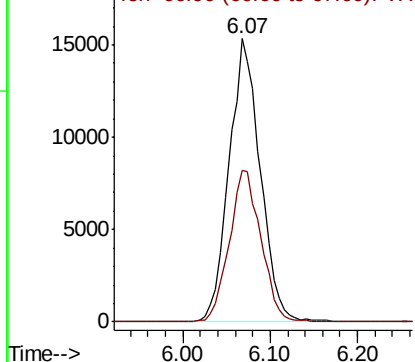


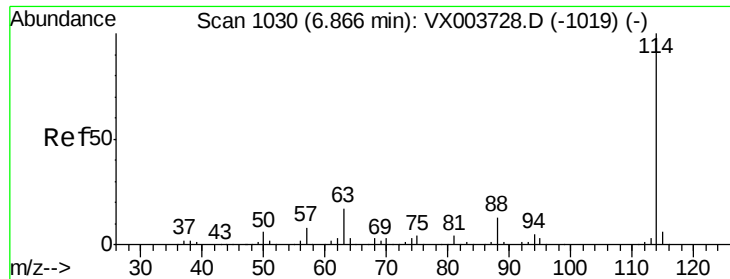
#33
1,2-Dichloroethane-d4
Concen: 52.34 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.01 min
Lab File: VX003756.D
Acq: 31 Jul 2018 17:50

Tgt Ion: 65 Resp: 37901
Ion Ratio Lower Upper
65 100
67 54.3 0.0 107.0



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

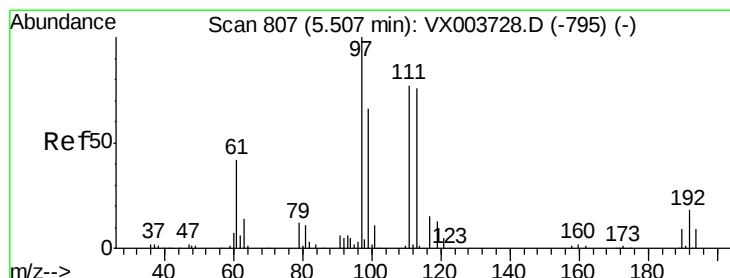
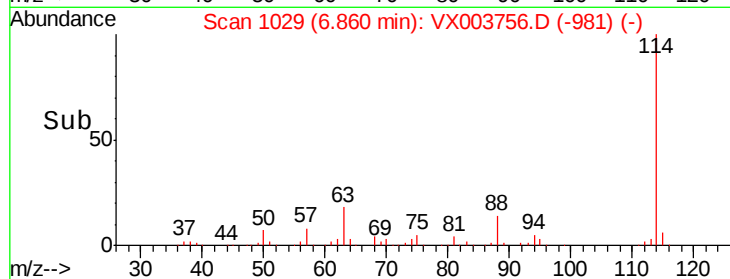
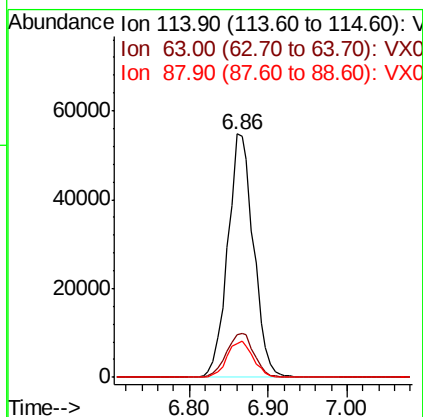
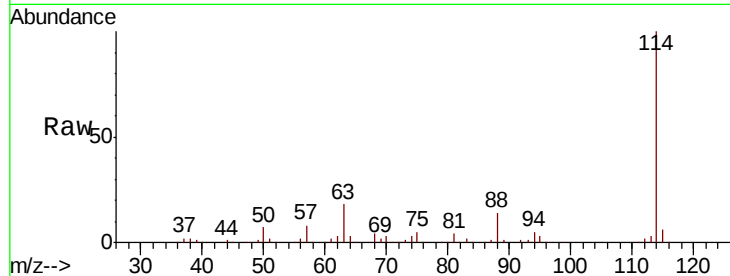




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX003756.D
 Acq: 31 Jul 2018 17:50

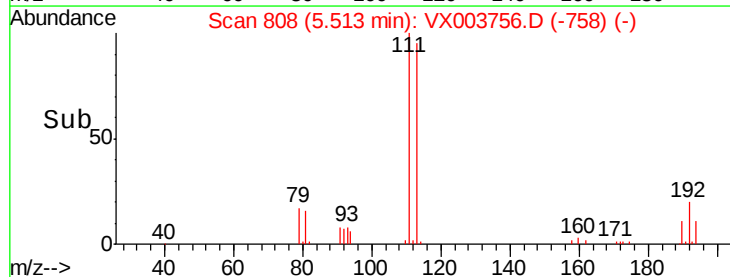
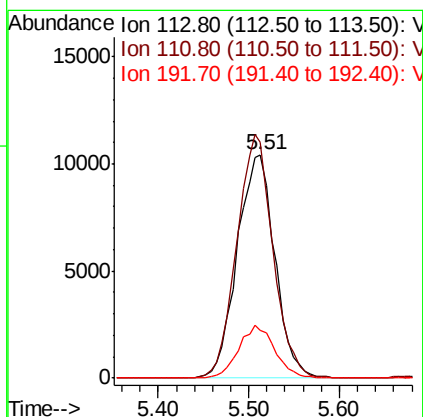
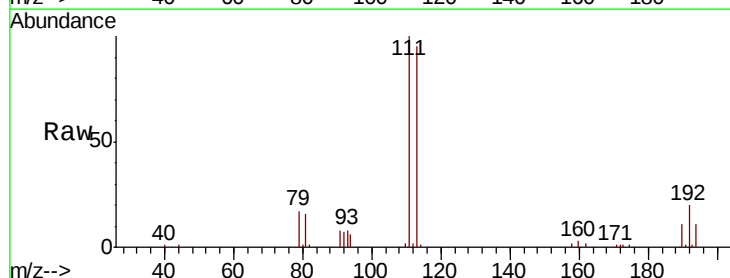
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-1

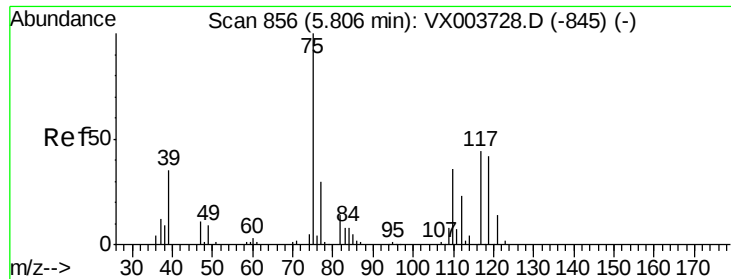
Tot Ion:114 Resp: 124271
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 34.0
 88 13.9 0.0 26.4



#35
 Dibromofluoromethane
 Concen: 40.93 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX003756.D
 Acq: 31 Jul 2018 17:50

Tgt Ion:113 Resp: 29948
 Ion Ratio Lower Upper
 113 100
 111 104.6 81.8 122.6
 192 22.5 18.8 28.2

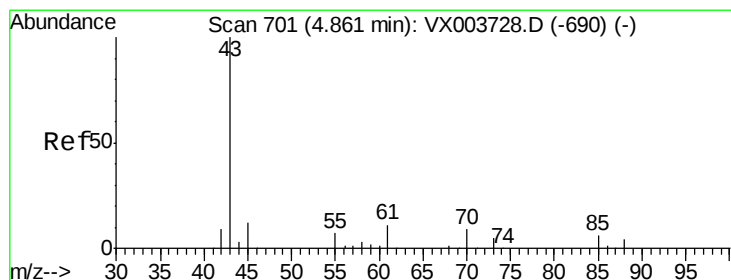
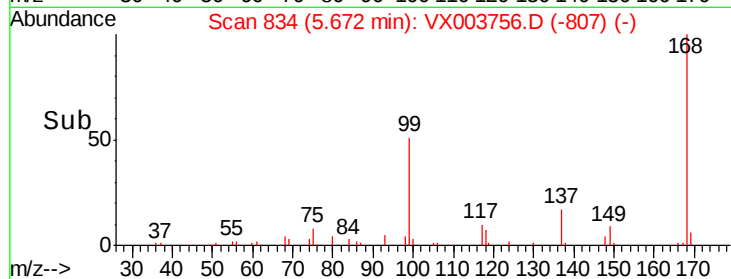
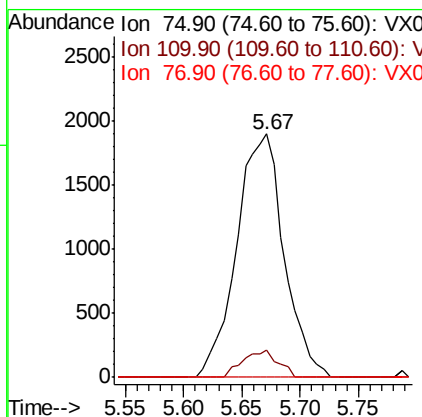
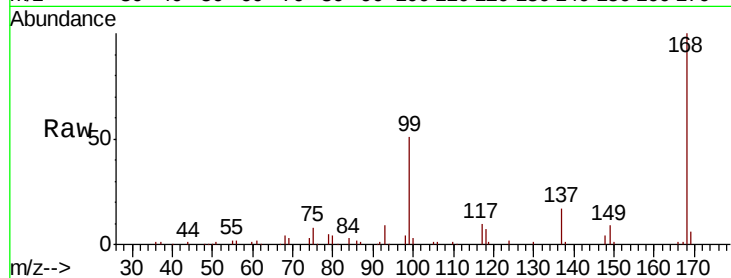




#36
 1,1-Dichloropropene
 Concen: 4.62 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX003756.D
 Acq: 31 Jul 2018 17:50

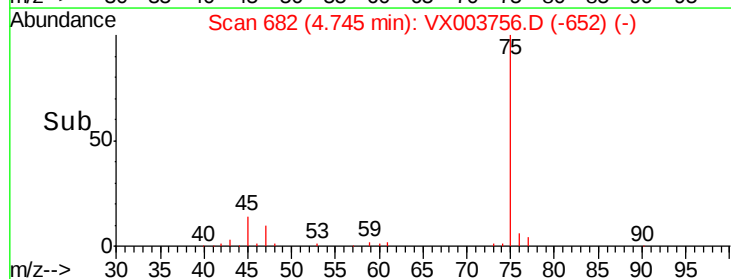
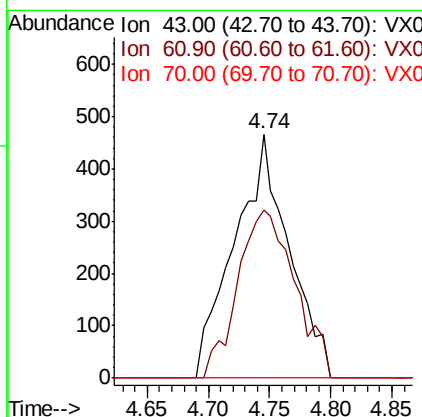
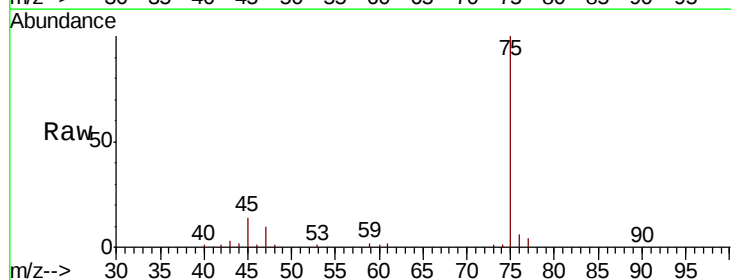
Instrument :
 MSVOA_X
 ClientSampled :
 SOIL-1

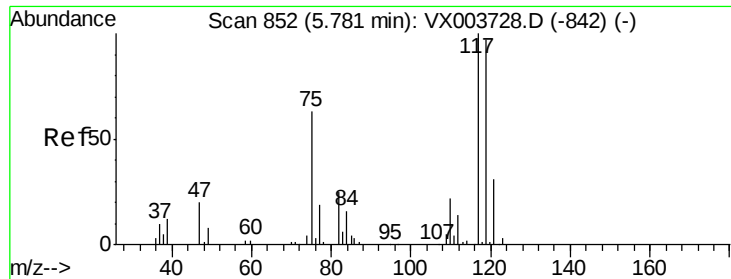
Tot Ion: 75 Resp: 5371
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.3 54.8#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 1.62 ug/l
 RT: 4.74 min Scan# 682
 Delta R.T. -0.12 min
 Lab File: VX003756.D
 Acq: 31 Jul 2018 17:50

Tgt Ion: 43 Resp: 1448
 Ion Ratio Lower Upper
 43 100
 61 72.1 11.4 17.0#
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: 6.15 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampled :

SOIL-1

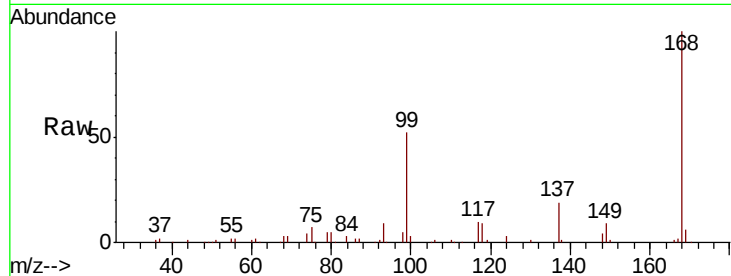
Tot Ion:117 Resp: 6620

Ion Ratio Lower Upper

117 100

119 5.1 77.2 115.8#

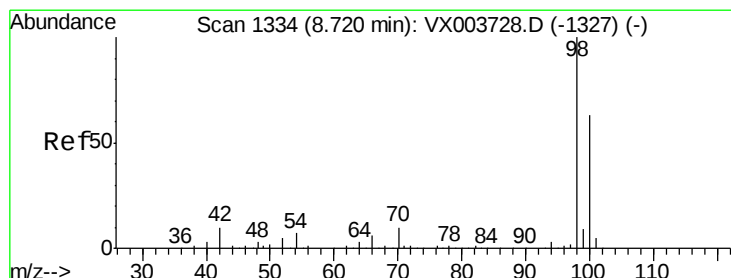
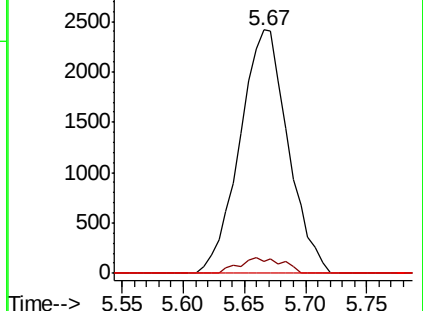
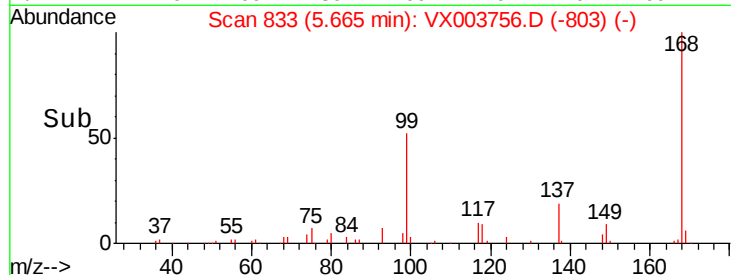
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 36.40 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003756.D

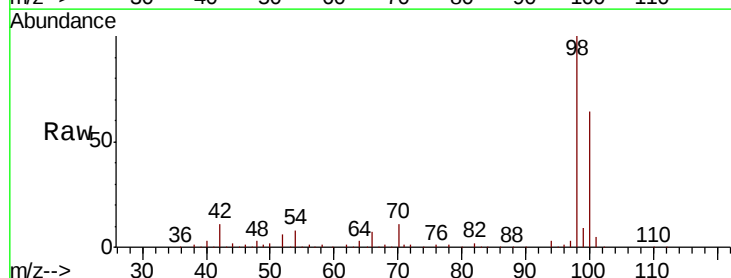
Acq: 31 Jul 2018 17:50

Tgt Ion: 98 Resp: 111041

Ion Ratio Lower Upper

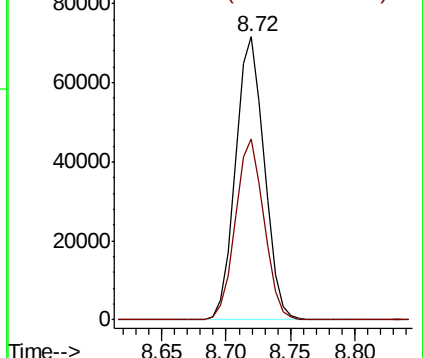
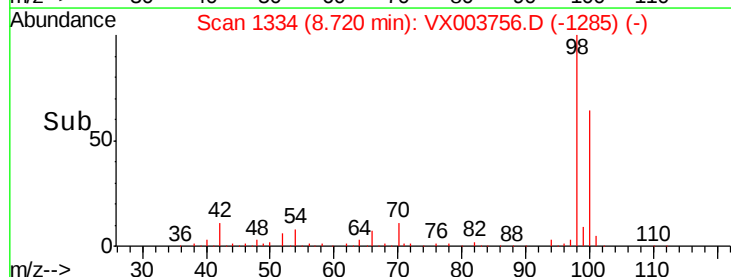
98 100

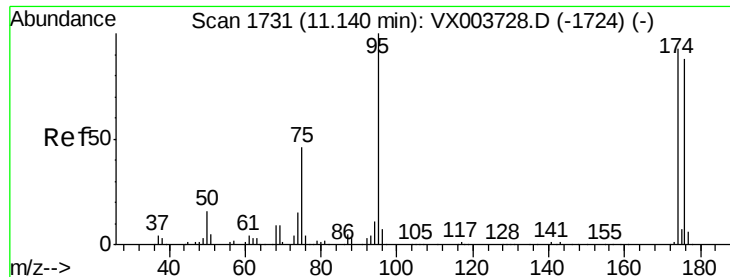
100 63.6 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

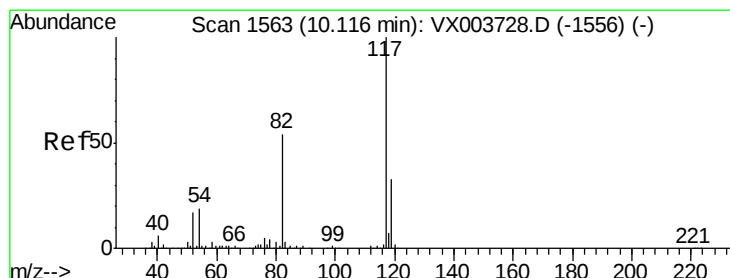
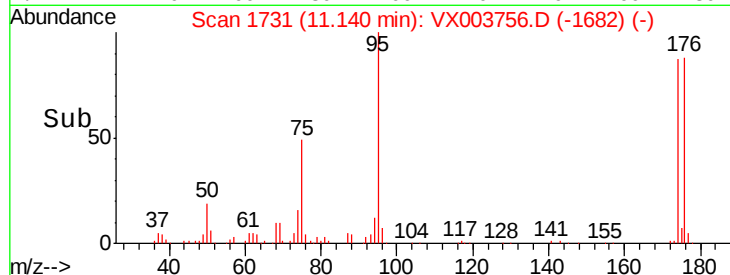
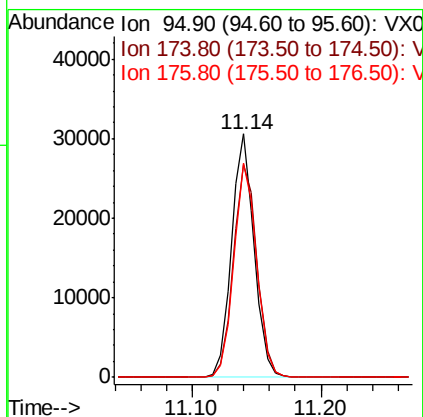
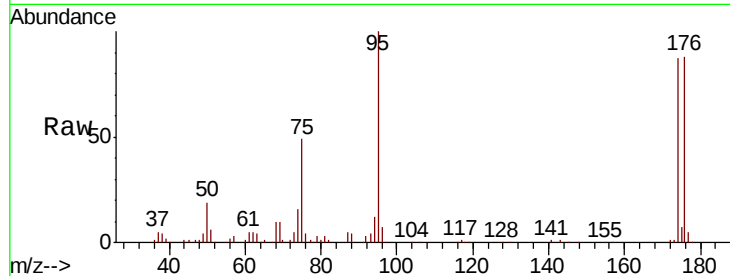




#62
4-Bromofluorobenzene
Concen: 33.36 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003756.D
Acq: 31 Jul 2018 17:50

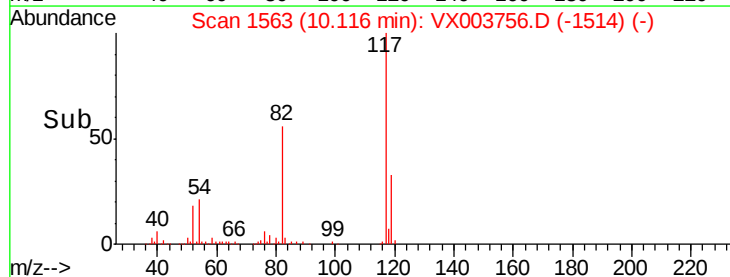
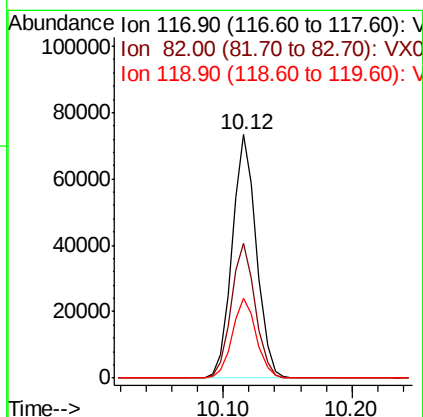
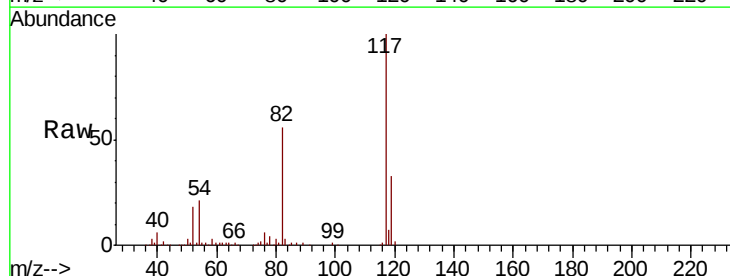
Instrument :
MSVOA_X
ClientSampleId :
SOIL-1

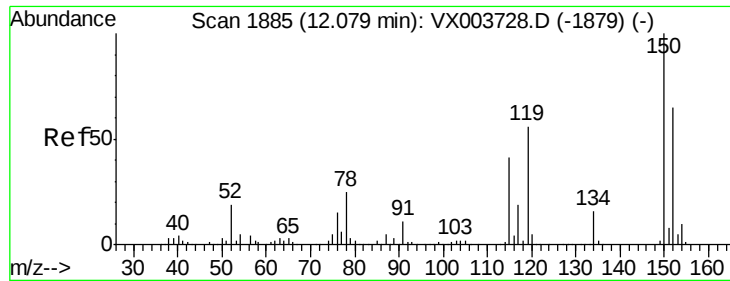
Tot Ion: 95 Resp: 37531
Ion Ratio Lower Upper
95 100
174 91.4 0.0 186.2
176 88.5 0.0 179.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003756.D
Acq: 31 Jul 2018 17:50

Tgt Ion: 117 Resp: 96283
Ion Ratio Lower Upper
117 100
82 55.6 43.2 64.8
119 32.6 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampled :

SOIL-1

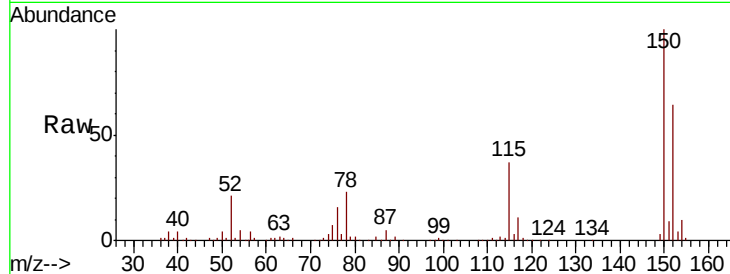
Tot Ion:152 Resp: 45617

Ion Ratio Lower Upper

152 100

115 56.1 38.5 115.3

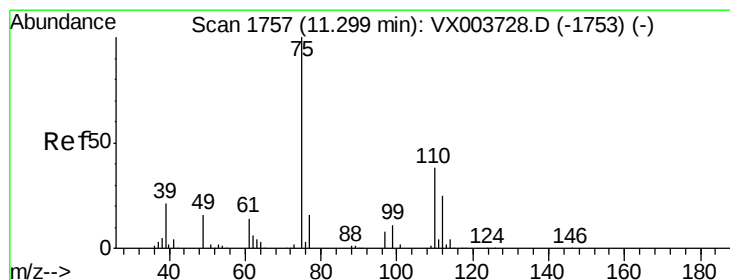
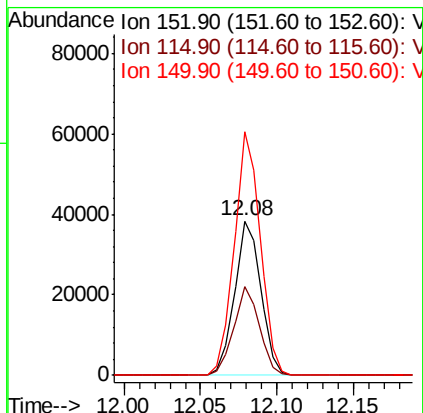
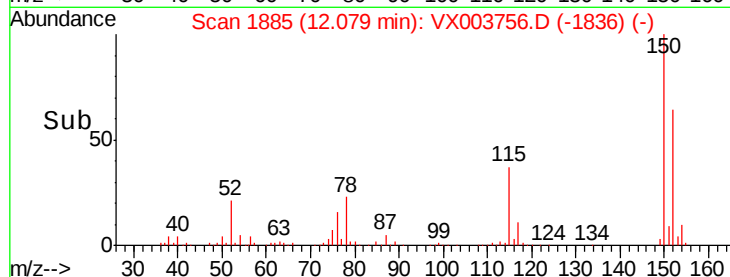
150 156.7 0.0 346.2



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: 29.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003756.D

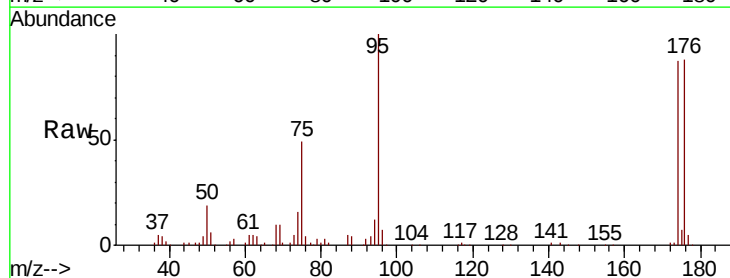
Acq: 31 Jul 2018 17:50

Tgt Ion: 75 Resp: 18645

Ion Ratio Lower Upper

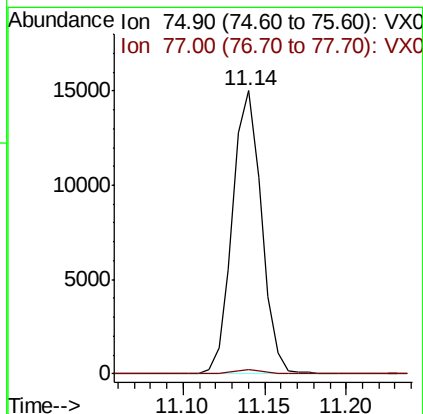
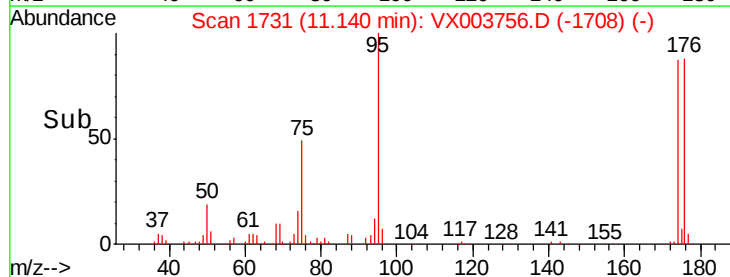
75 100

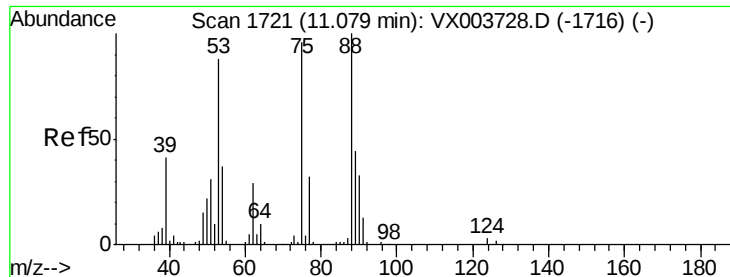
77 1.4 21.6 65.0#



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: 87.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampled :

SOIL-1

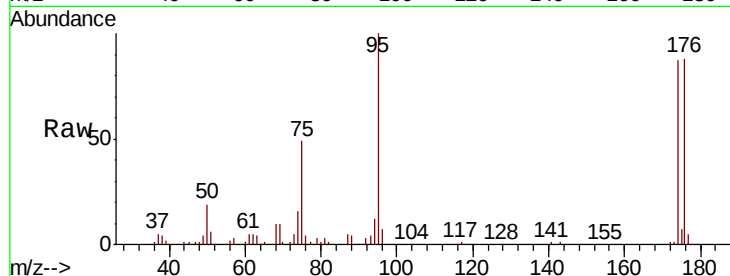
Tot Ion: 75 Resp: 18645

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

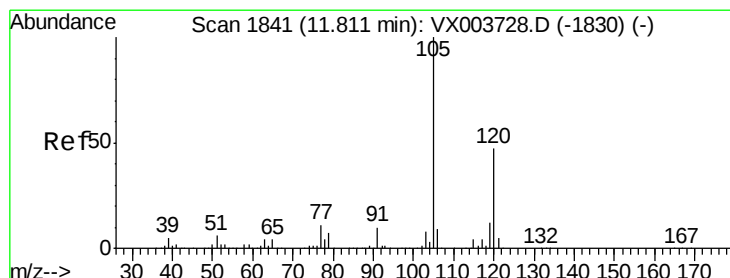
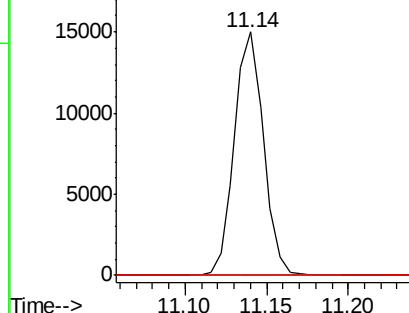
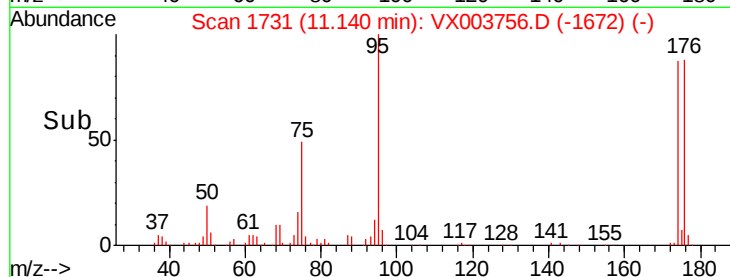
89 0.0 39.1 58.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.22 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003756.D

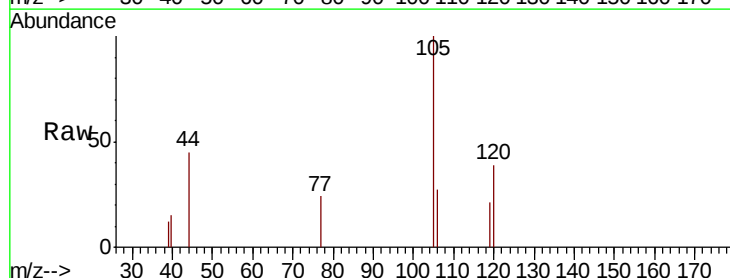
Acq: 31 Jul 2018 17:50

Tgt Ion: 105 Resp: 545

Ion Ratio Lower Upper

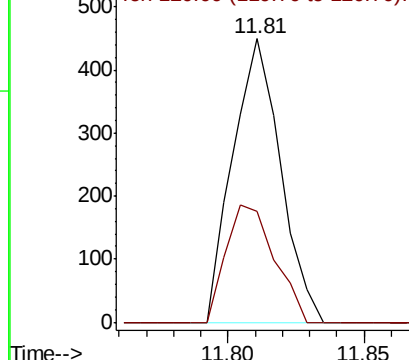
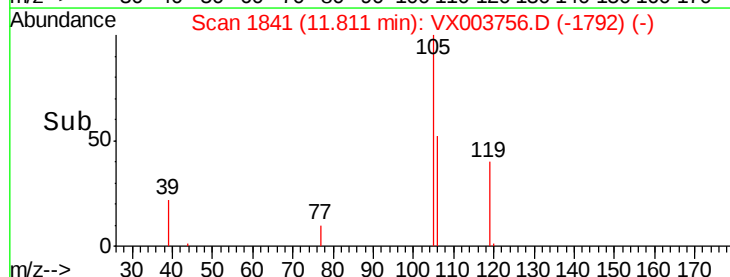
105 100

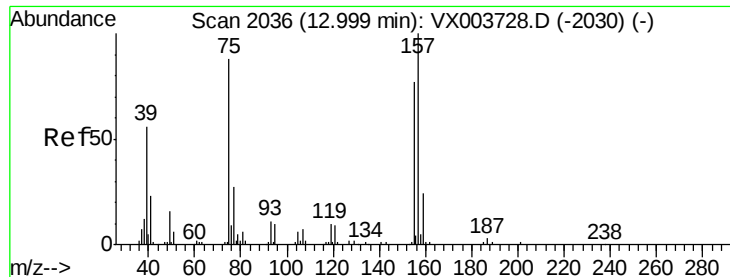
120 42.0 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.26 ug/l

RT: 13.10 min Scan# 2052

Delta R.T. 0.10 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampleId :

SOIL-1

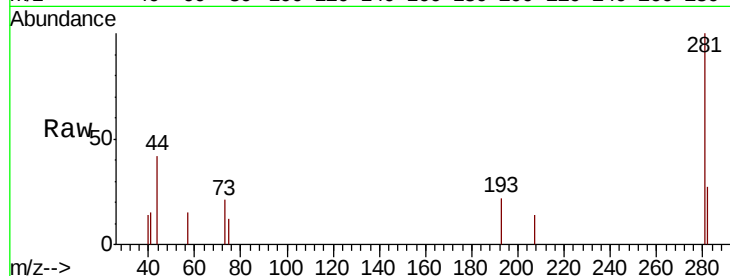
Tot Ion: 75 Resp: 39

Ion Ratio Lower Upper

75 100

155 0.0 48.9 146.7#

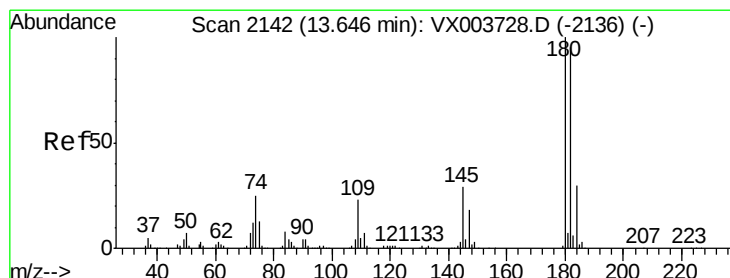
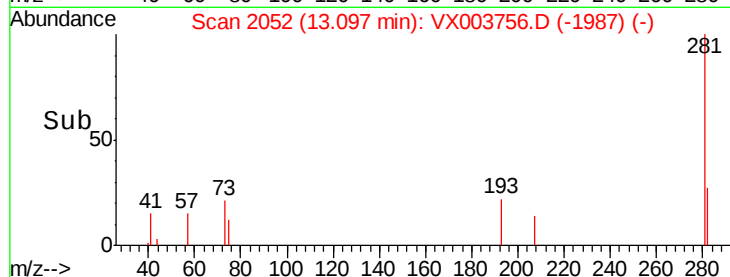
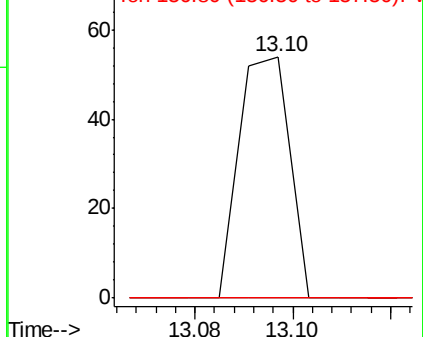
157 0.0 63.7 191.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.24 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

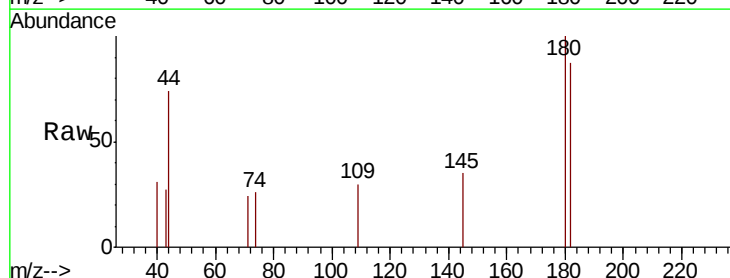
Tgt Ion: 180 Resp: 263

Ion Ratio Lower Upper

180 100

182 90.5 47.6 142.9

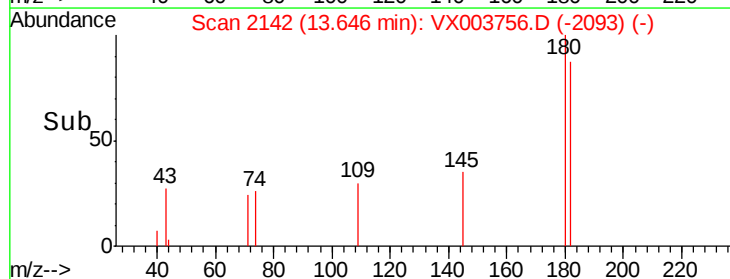
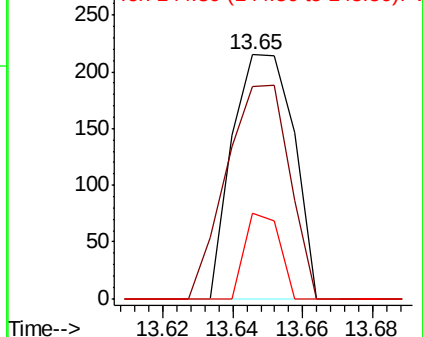
145 20.2 14.1 42.2

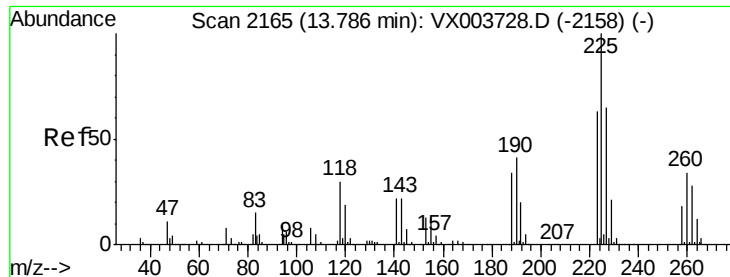


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.23 ug/l

RT: 13.79 min Scan# 2166

Delta R.T. 0.01 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

Instrument :

MSVOA_X

ClientSampled :

SOIL-1

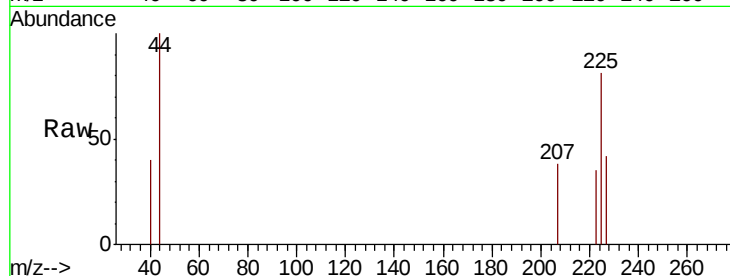
Tot Ion:225 Resp: 161

Ion Ratio Lower Upper

225 100

223 45.3 31.1 93.5

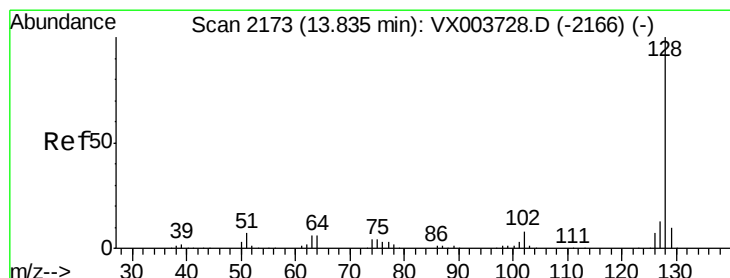
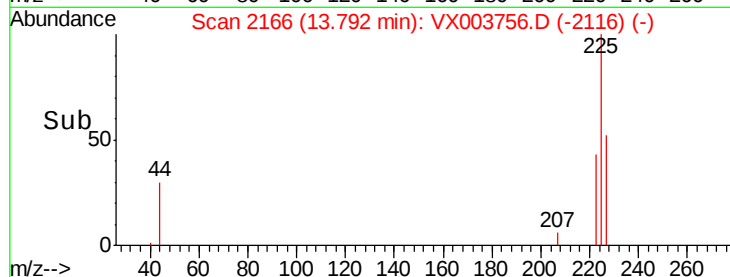
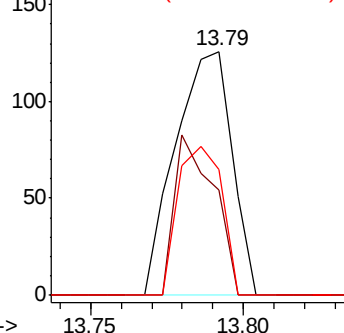
227 47.2 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.29 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003756.D

Acq: 31 Jul 2018 17:50

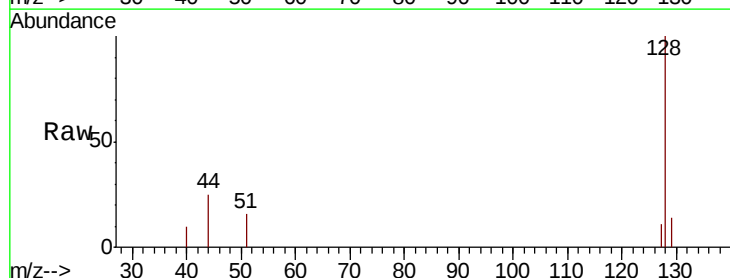
Tgt Ion:128 Resp: 681

Ion Ratio Lower Upper

128 100

127 7.2 10.2 15.2#

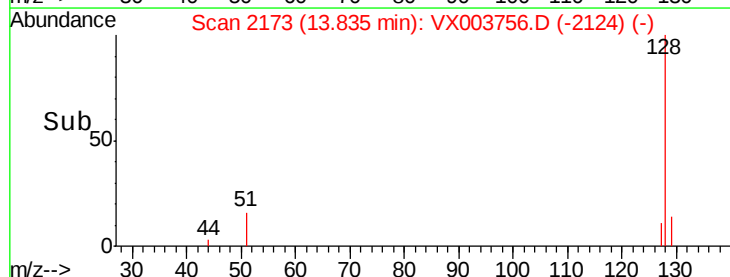
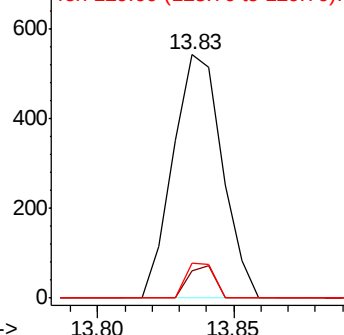
129 8.2 8.7 13.1#

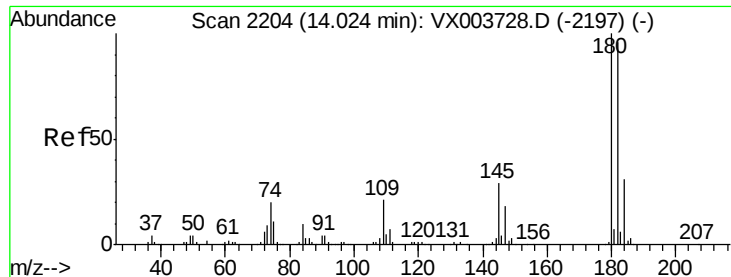


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.21 ug/l
 RT: 14.02 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VX003756.D
 Acq: 31 Jul 2018 17:50

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-1

Tot Ion:180 Resp: 212
 Ion Ratio Lower Upper
 180 100
 182 98.1 47.9 143.8
 145 0.0 14.7 44.1#

