

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122019\
 Data File : VX014167.D
 Acq On : 20 Dec 2019 12:33
 Operator : JC/SP
 Sample : K6391-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Quant Time: Dec 20 22:25:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	589391	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	896958	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	783356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	347001	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	321319	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	5.49	113	264348	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	8.71	98	1052278	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.13	95	348737	44.94	ug/l	0.00
Spiked Amount			Recovery	=	89.88%	

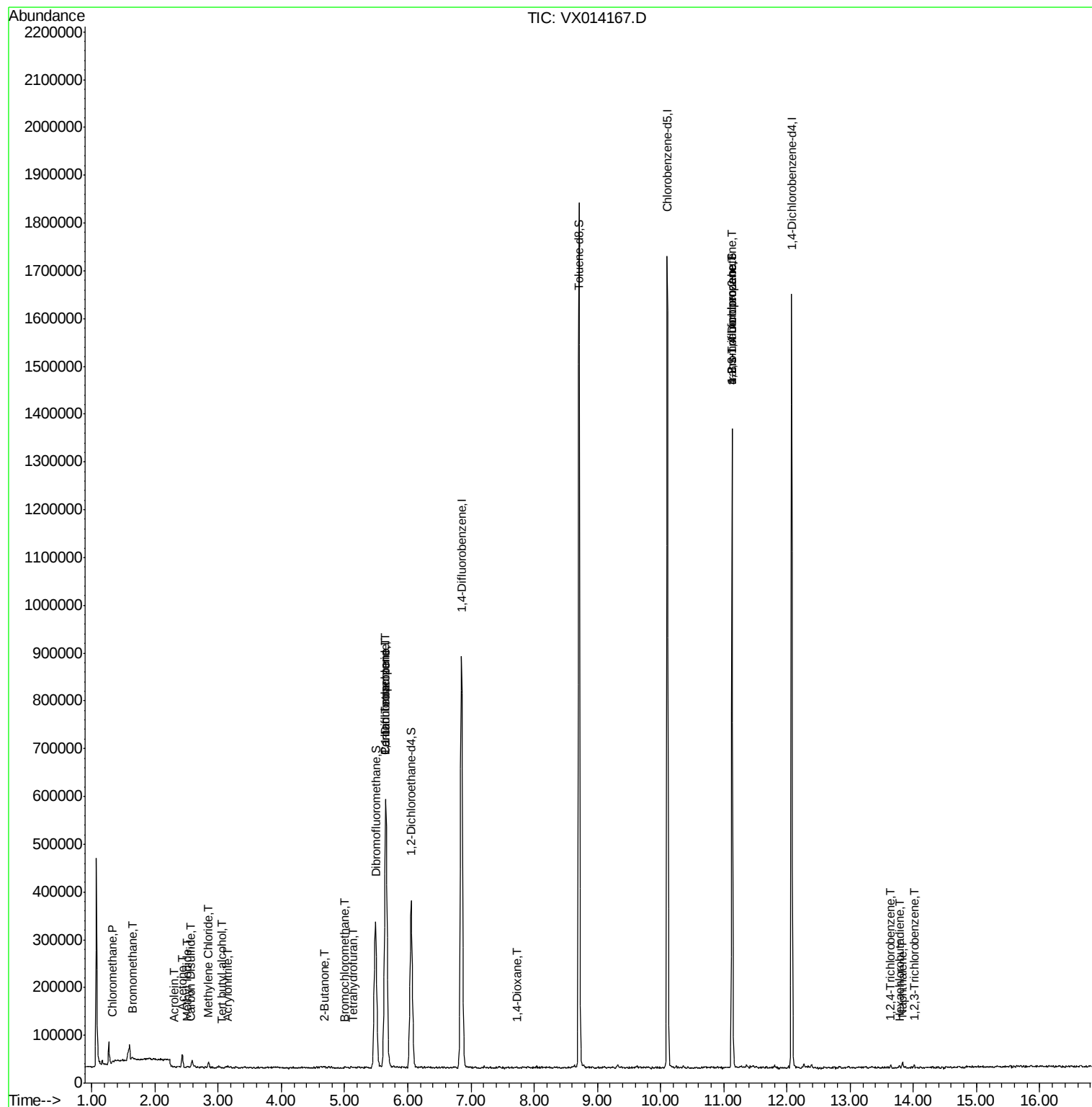
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2190	0.309	ug/l #	85
5) Bromomethane	1.64	94	2344	0.442	ug/l #	58
10) Methyl Iodide	2.51	142	3823	3.114	ug/l	91
11) Tert butyl alcohol	3.07	59	365	0.253	ug/l #	1
13) Acrolein	2.30	56	238	0.288	ug/l #	14
15) Acrylonitrile	3.14	53	989	0.294	ug/l #	40
16) Acetone	2.43	43	28701	6.618	ug/l	96
17) Carbon Disulfide	2.56	76	3863	0.992	ug/l #	91
20) Methylene Chloride	2.85	84	7155	1.048	ug/l #	94
25) 2-Butanone	4.67	43	4114	0.769	ug/l #	65
28) Bromochloromethane	5.00	49	1034	0.691	ug/l #	26
29) Tetrahydrofuran	5.14	42	1479	0.495	ug/l #	68
36) 1,1-Dichloropropene	5.65	75	39272	4.772	ug/l #	50
38) Carbon Tetrachloride	5.65	117	50673	6.759	ug/l #	16
49) 1,4-Dioxane	7.72	88	542	3.616	ug/l #	80
76) 1,2,3-Trichloropropane	11.13	75	169587	22.512	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	169587	63.539	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.64	180	1858	0.241	ug/l #	83
94) Hexachlorobutadiene	13.78	225	807	0.218	ug/l	84
95) Naphthalene	13.83	128	8512	0.376	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.01	180	2068	0.272	ug/l	83

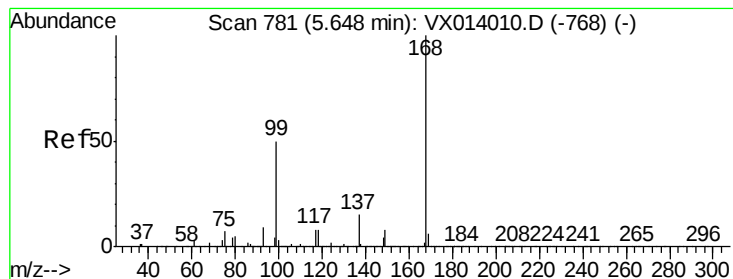
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

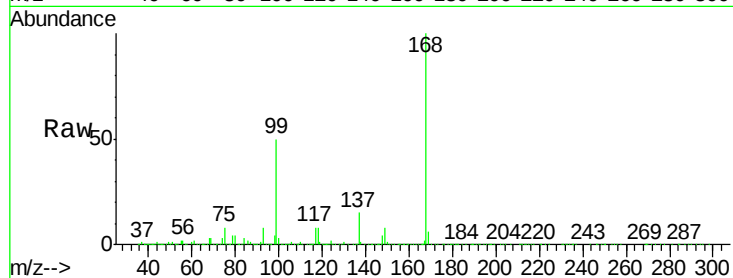
STORAGE-BLANK-SOIL-REF-6

Tgt Ion:168 Resp: 589391

Ion Ratio Lower Upper

168 100

99 49.5 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

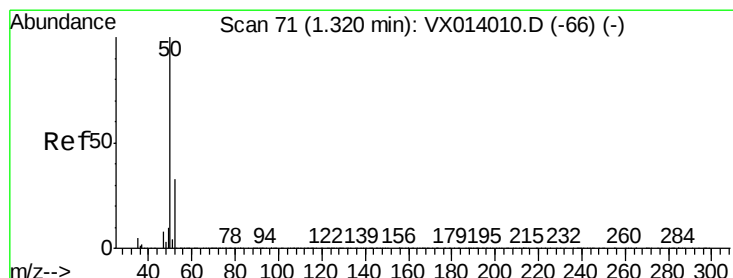
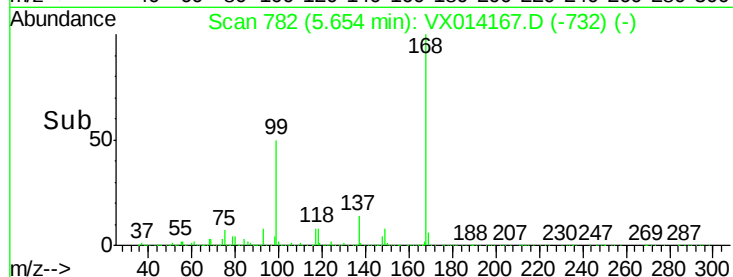
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.309 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014167.D

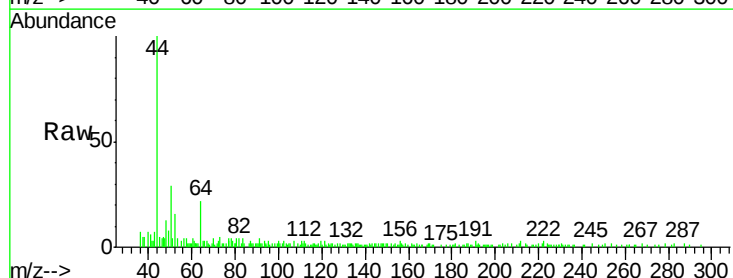
Acq: 20 Dec 2019 12:33

Tgt Ion: 50 Resp: 2190

Ion Ratio Lower Upper

50 100

52 41.5 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

1500

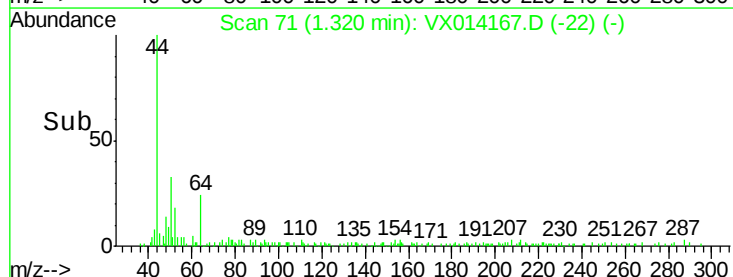
1000

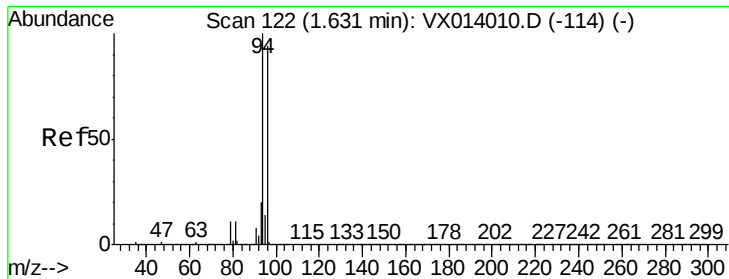
500

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.442 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

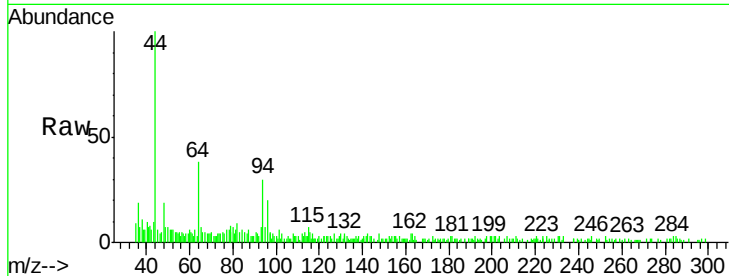
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 94 Resp: 2344

Ion Ratio Lower Upper

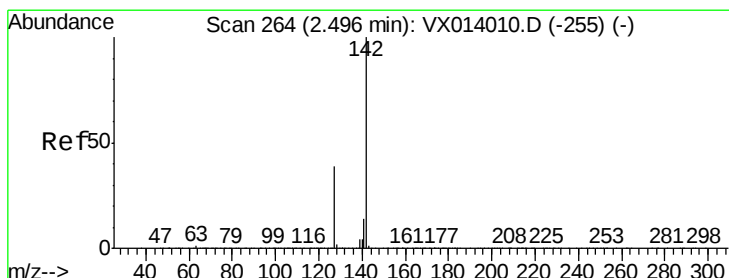
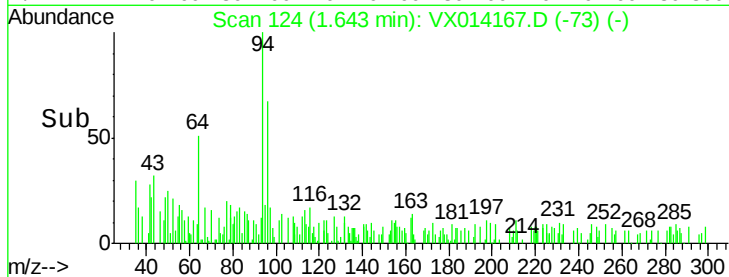
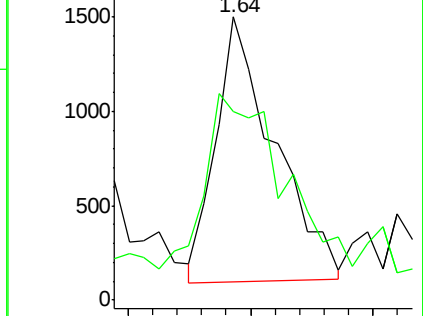
94 100

96 53.2 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 3.114 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

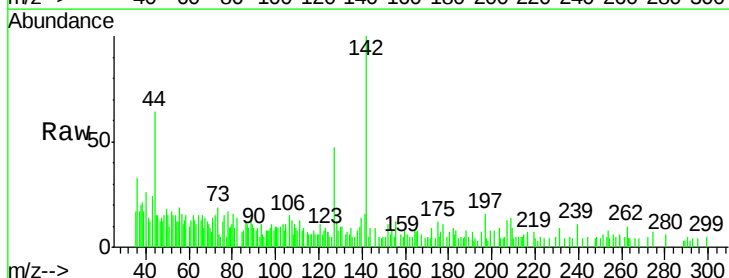
Tgt Ion: 142 Resp: 3823

Ion Ratio Lower Upper

142 100

127 46.3 31.6 47.4

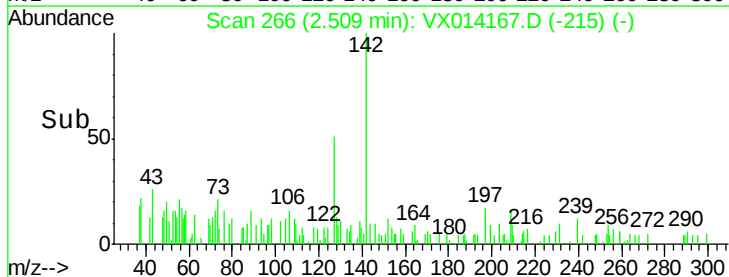
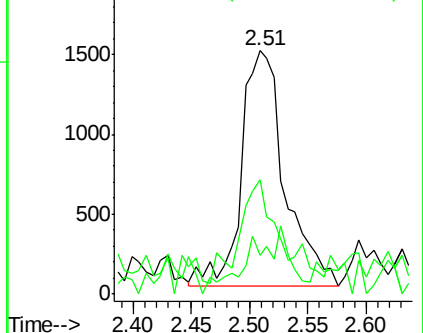
141 12.4 11.6 17.4

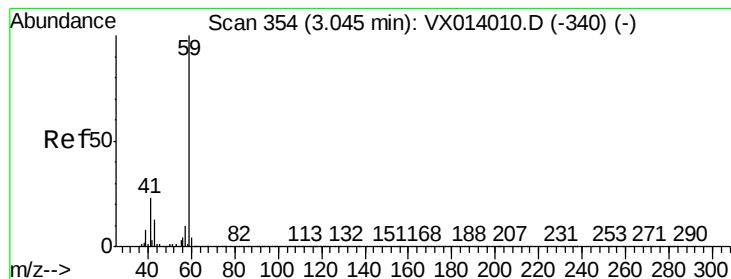


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



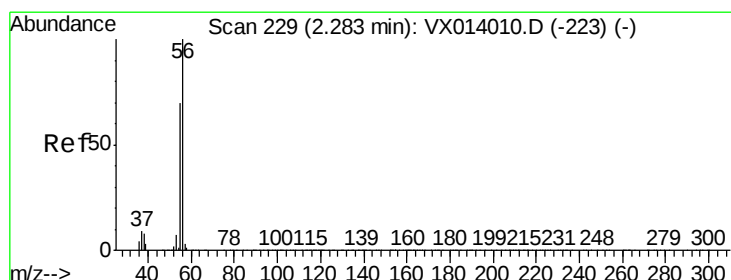
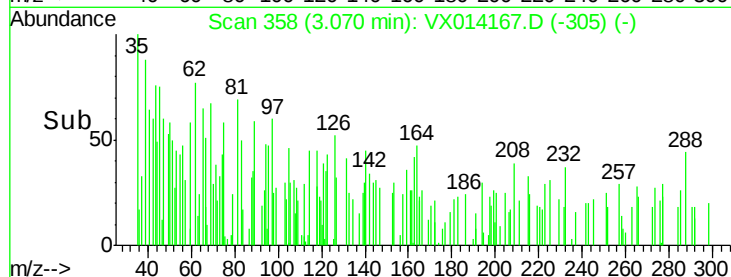
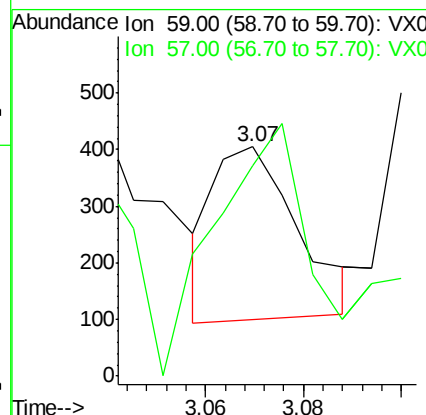
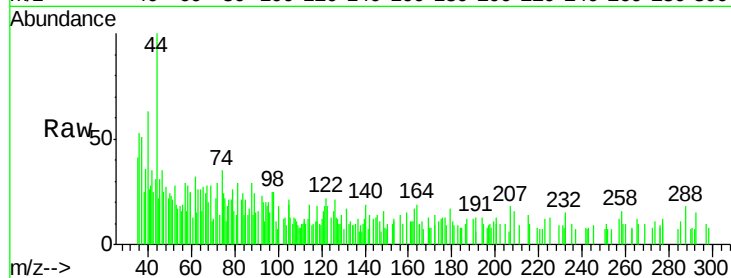


#11

Tert butyl alcohol
Concen: 0.253 ug/l
RT: 3.07 min Scan# 358
Delta R.T. 0.02 min
Lab File: VX014167.D
Acq: 20 Dec 2019 12:33

Instrument :
MSVOA_X
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STORAGE-BLANK-SOIL-REF-6

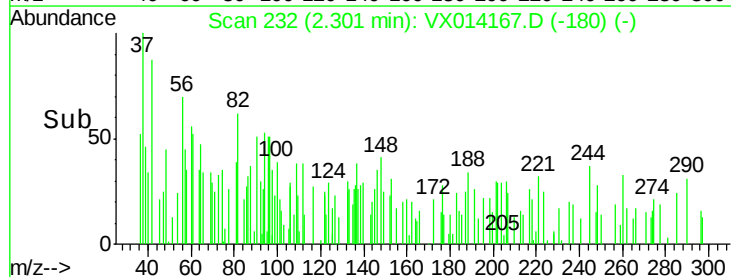
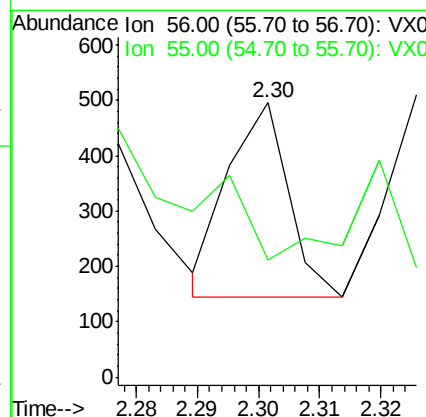
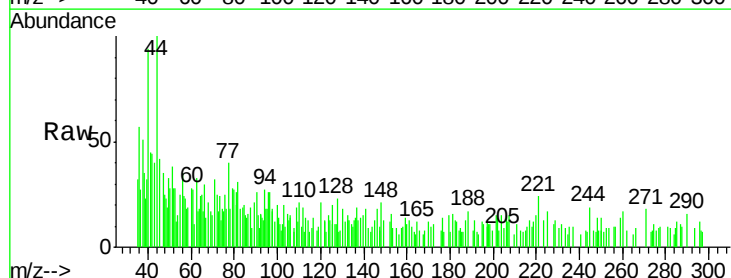
Tgt Ion: 59 Resp: 365
Ion Ratio Lower Upper
59 100
57 160.5 8.4 12.6#

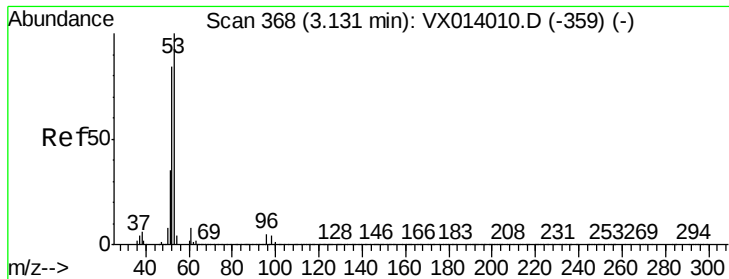


#13

Acrolein
Concen: 0.288 ug/l
RT: 2.30 min Scan# 232
Delta R.T. 0.02 min
Lab File: VX014167.D
Acq: 20 Dec 2019 12:33

Tgt Ion: 56 Resp: 238
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.294 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

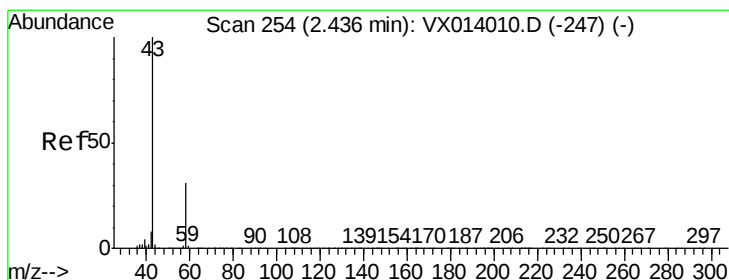
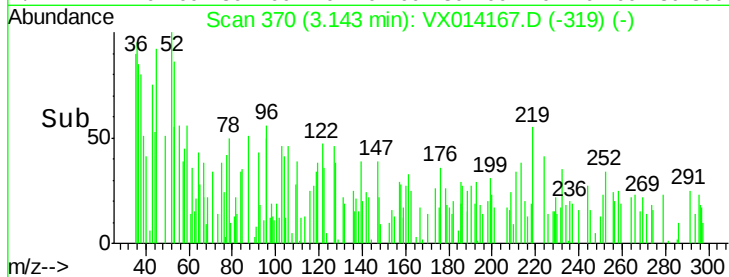
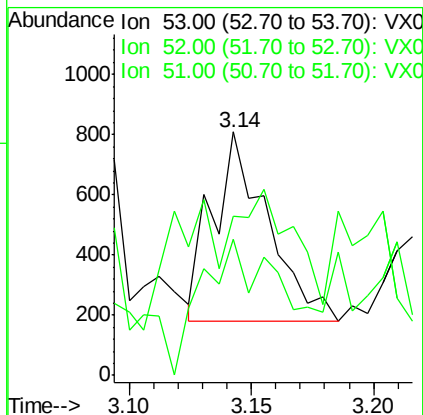
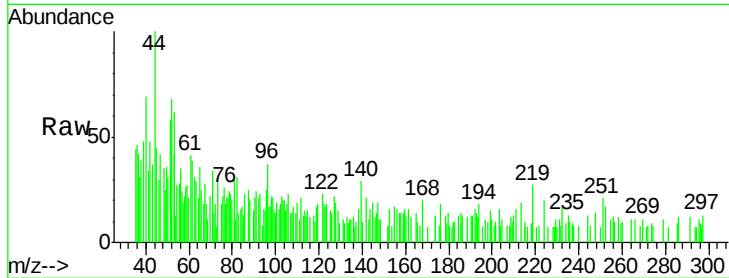
Tgt Ion: 53 Resp: 989

Ion Ratio Lower Upper

53 100

52 55.6 66.5 99.7#

51 110.8 28.1 42.1#



#16

Acetone

Concen: 6.618 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014167.D

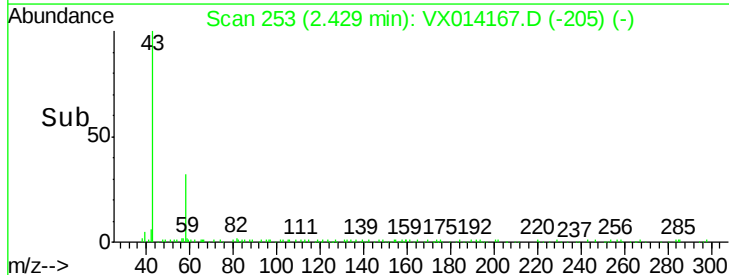
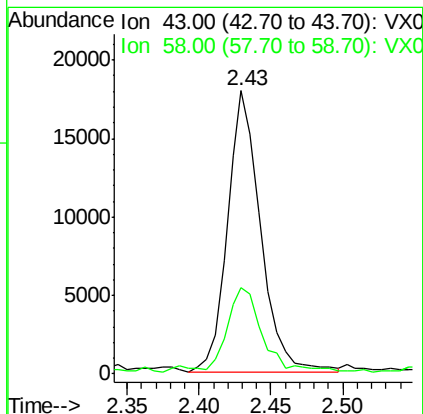
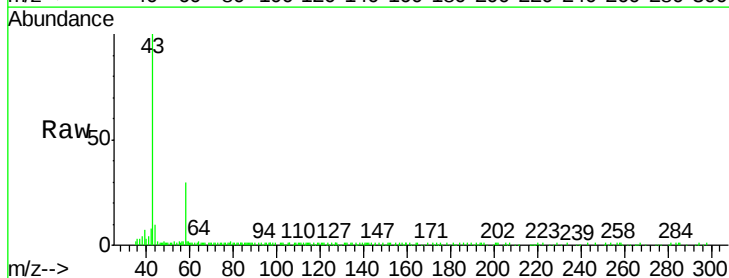
Acq: 20 Dec 2019 12:33

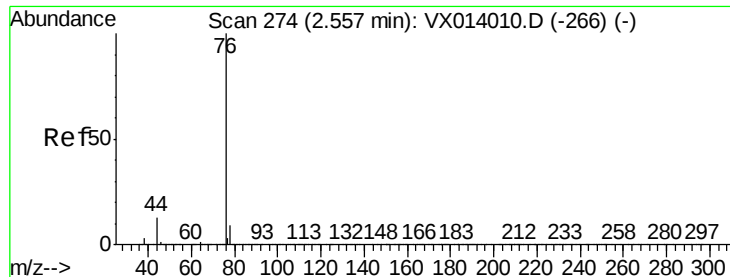
Tgt Ion: 43 Resp: 28701

Ion Ratio Lower Upper

43 100

58 28.8 24.9 37.3





#17

Carbon Disulfide

Concen: 0.992 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

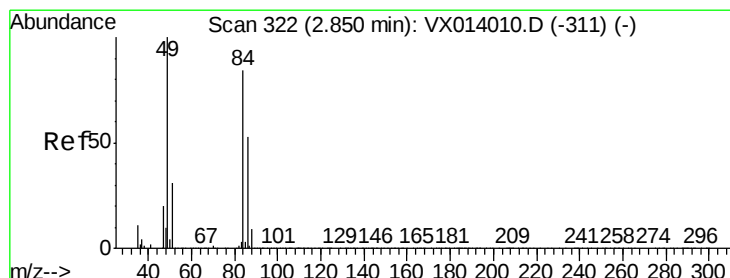
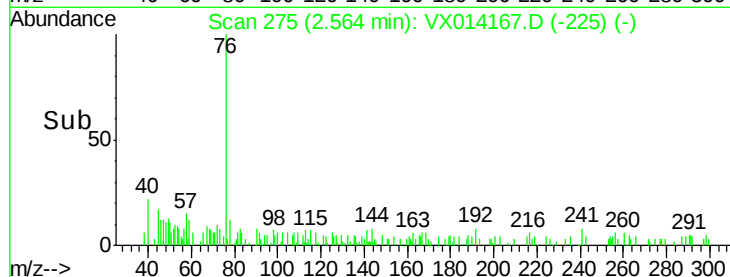
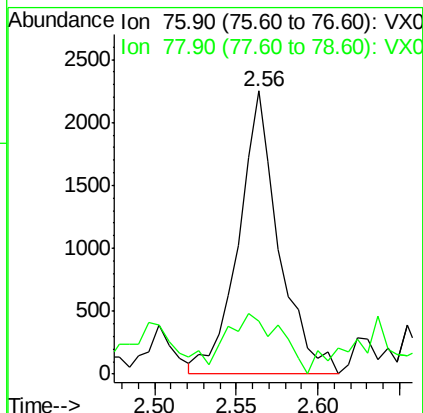
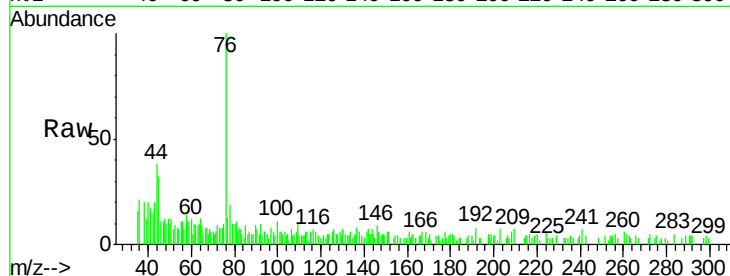
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 76 Resp: 3863

Ion Ratio Lower Upper

76 100

78 12.3 7.2 10.8#



#20

Methylene Chloride

Concen: 1.048 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Tgt Ion: 84 Resp: 7155

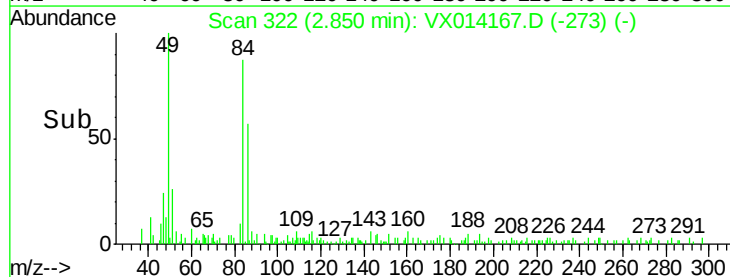
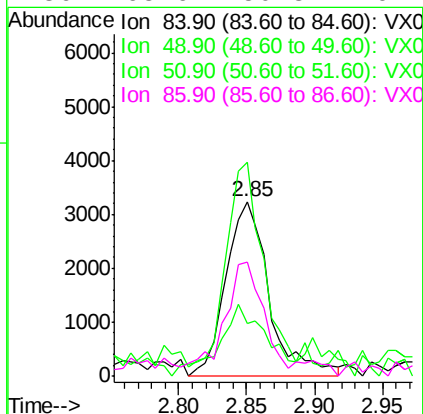
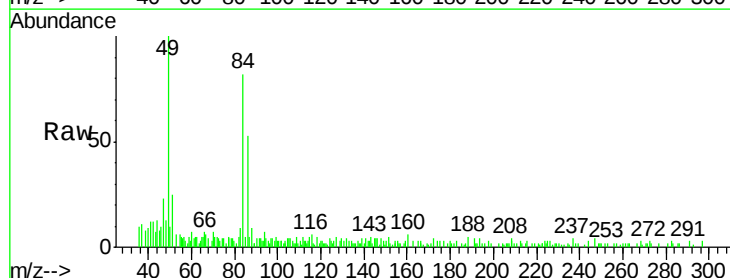
Ion Ratio Lower Upper

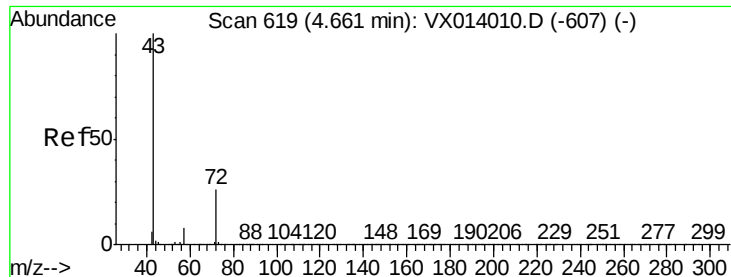
84 100

49 117.8 95.8 143.6

51 23.1 29.8 44.8#

86 65.6 50.8 76.2





#25

2-Butanone

Concen: 0.769 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

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ClientSampleId :

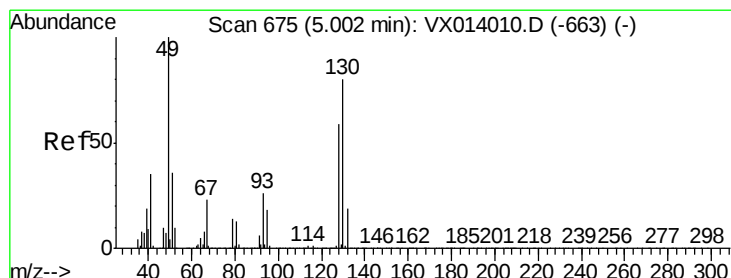
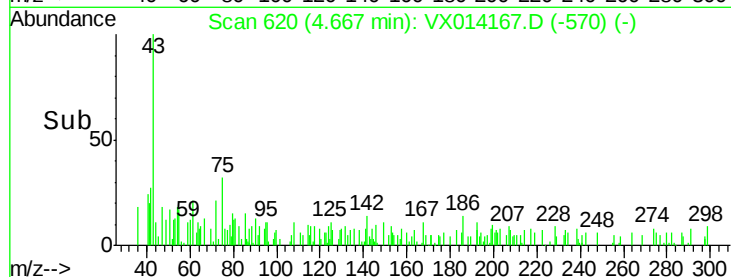
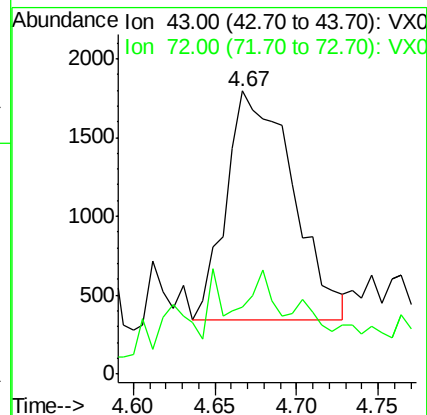
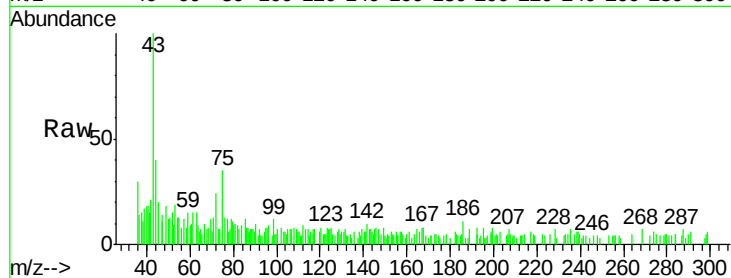
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 43 Resp: 4114

Ion Ratio Lower Upper

43 100

72 8.3 21.0 31.4#



#28

Bromochloromethane

Concen: 0.691 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

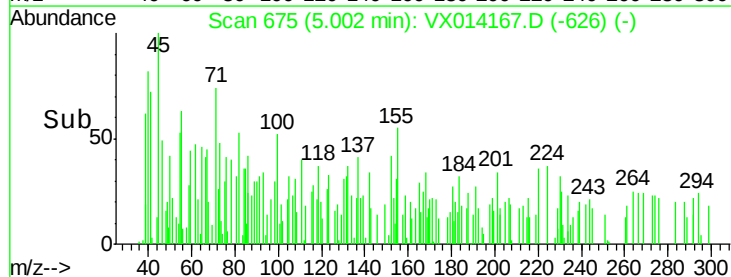
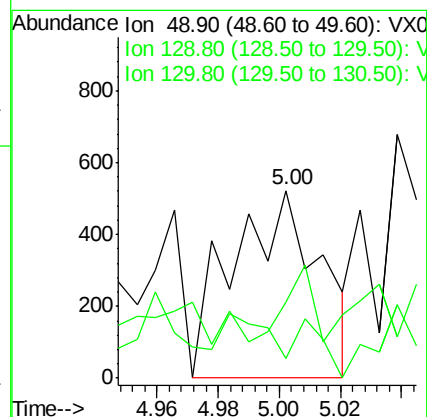
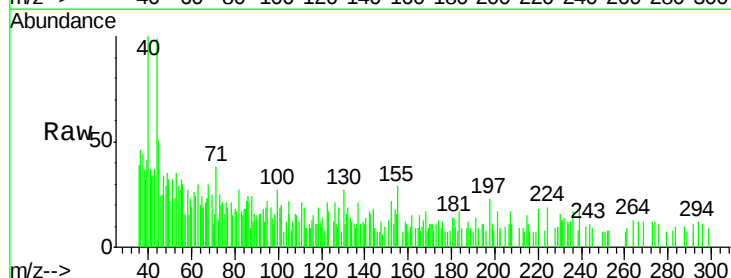
Tgt Ion: 49 Resp: 1034

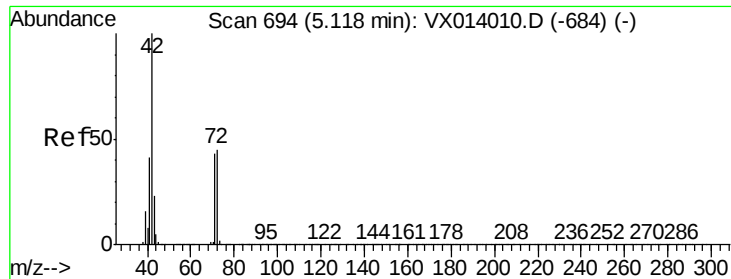
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 12.9 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.495 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

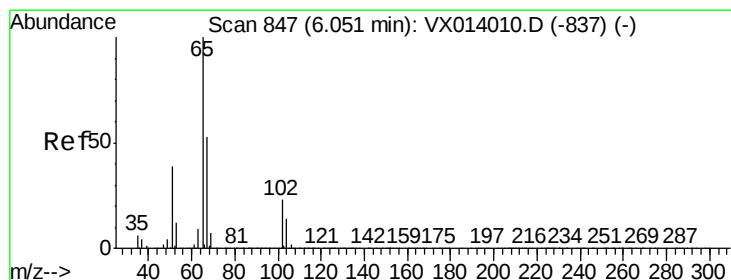
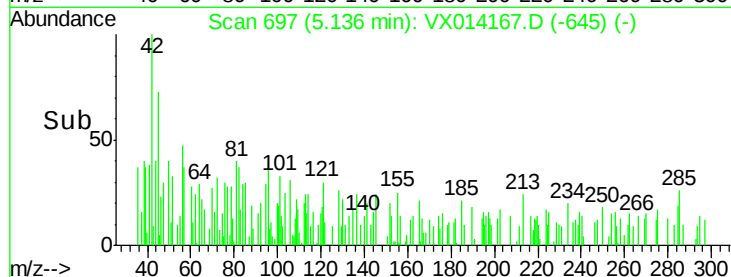
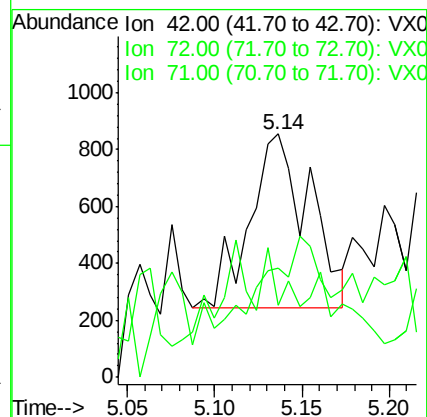
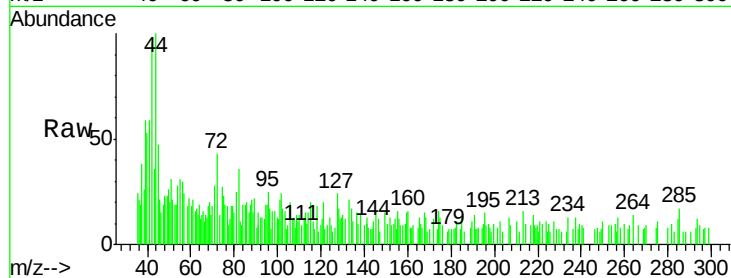
Tgt Ion: 42 Resp: 1479

Ion Ratio Lower Upper

42 100

72 35.8 35.8 53.8#

71 9.8 33.6 50.4#



#33

1,2-Dichloroethane-d4

Concen: 48.102 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014167.D

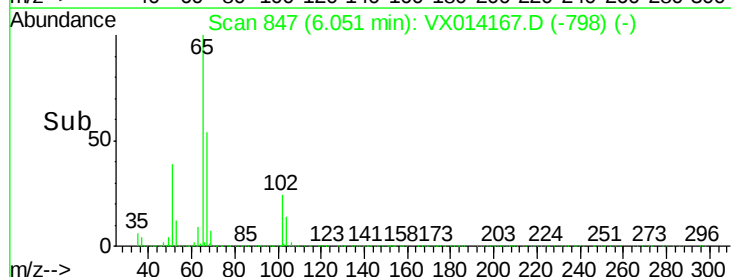
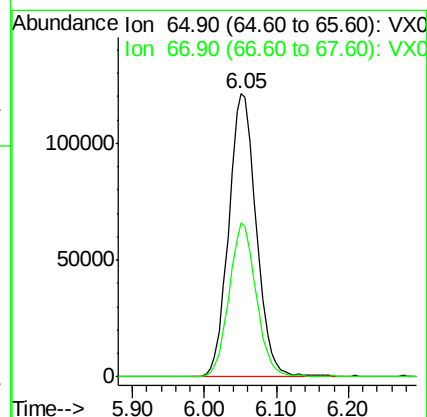
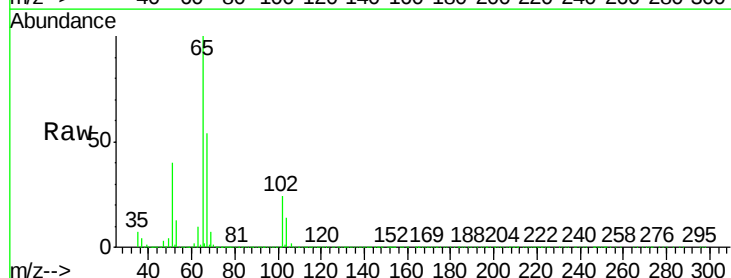
Acq: 20 Dec 2019 12:33

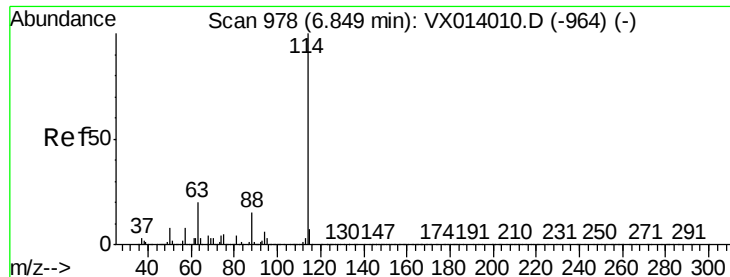
Tgt Ion: 65 Resp: 321319

Ion Ratio Lower Upper

65 100

67 53.3 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

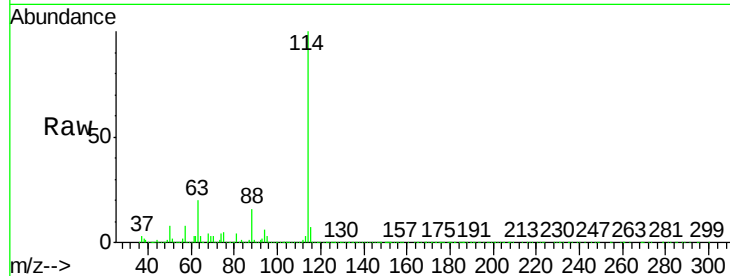
Tgt Ion:114 Resp: 896958

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.8

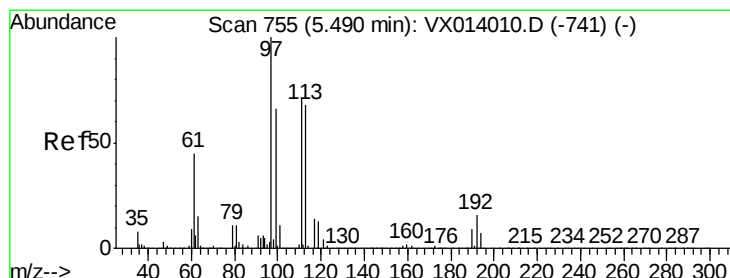
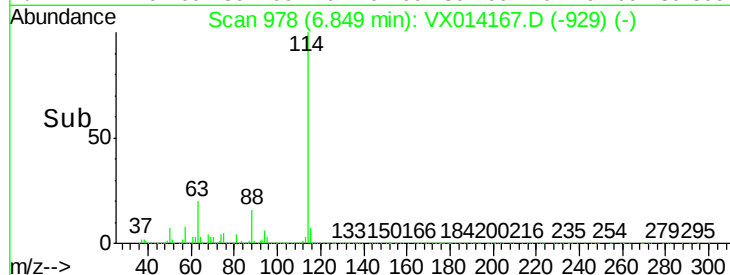
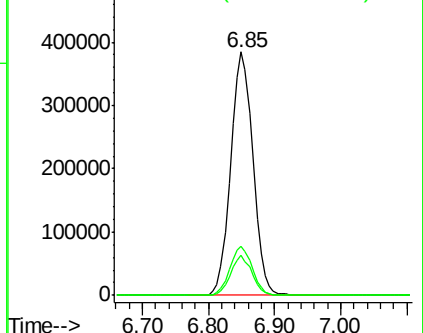
88 16.2 0.0 30.4



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: 48.482 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

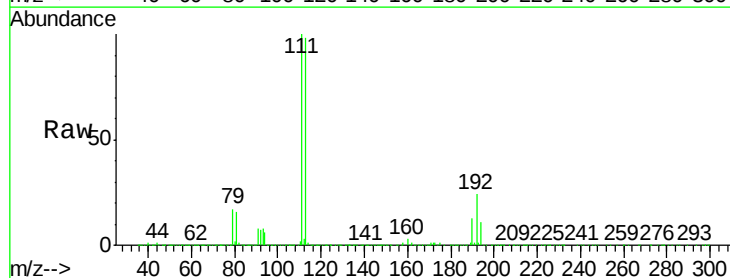
Tgt Ion:113 Resp: 264348

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

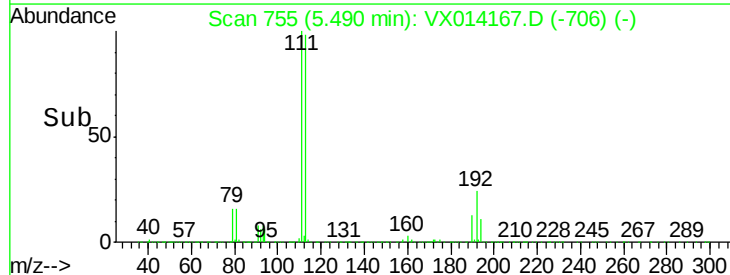
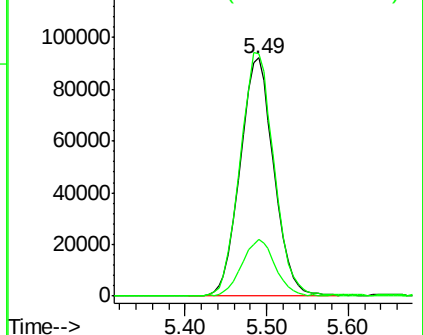
192 23.8 19.3 28.9

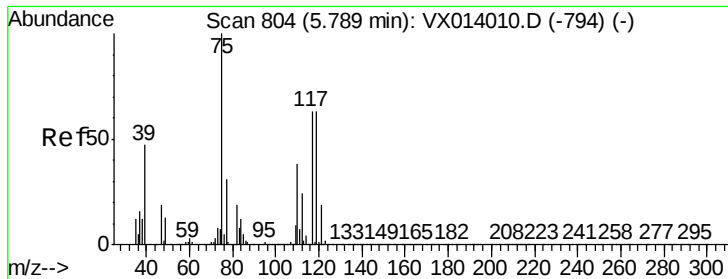


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

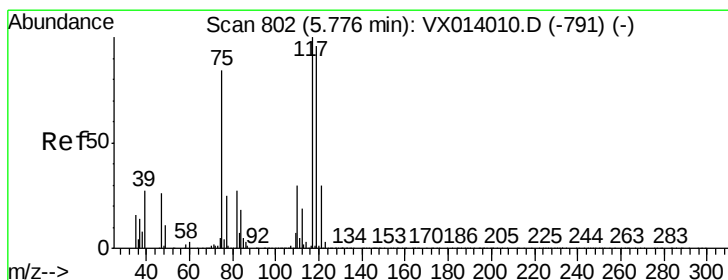
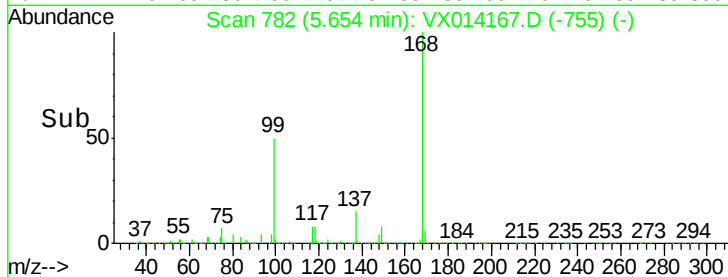
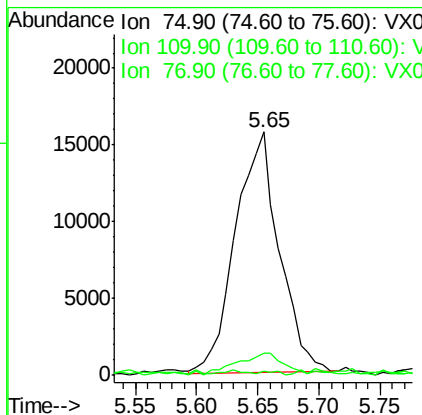
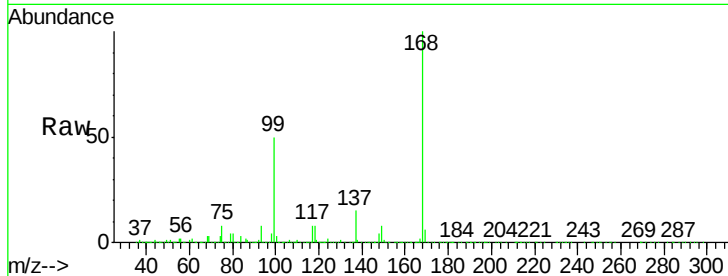




#36
 1,1-Dichloropropene
 Concen: 4.772 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX014167.D
 Acq: 20 Dec 2019 12:33

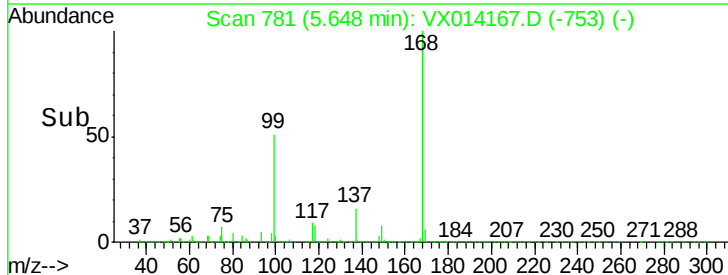
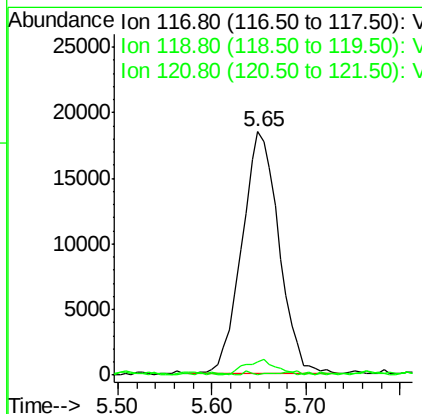
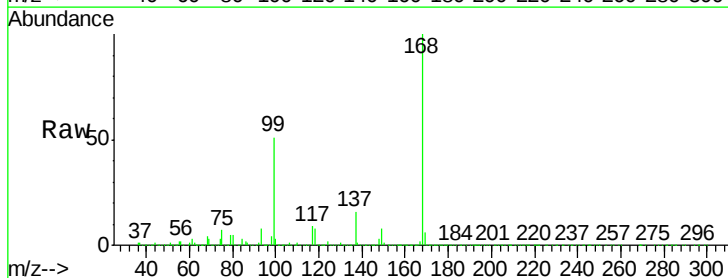
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

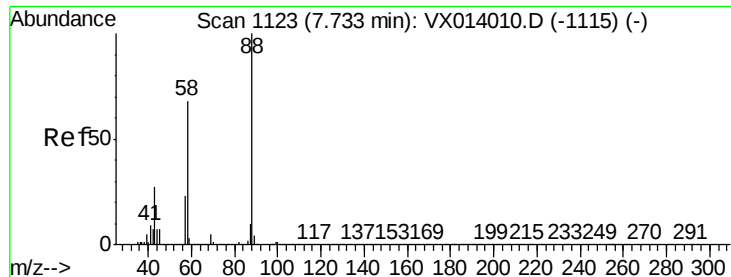
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.3	54.9#
77	0.7	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.759 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014167.D
 Acq: 20 Dec 2019 12:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	76.2	114.4#
121	0.3	23.6	35.4#





#49

1,4-Dioxane

Concen: 3.616 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

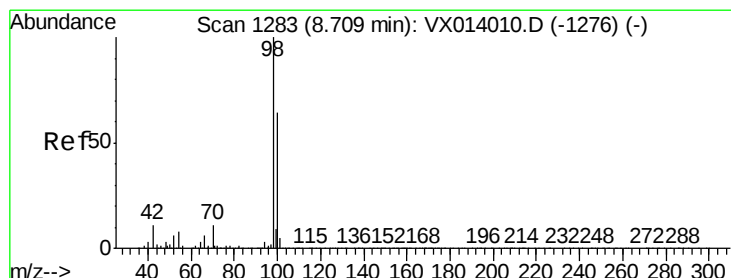
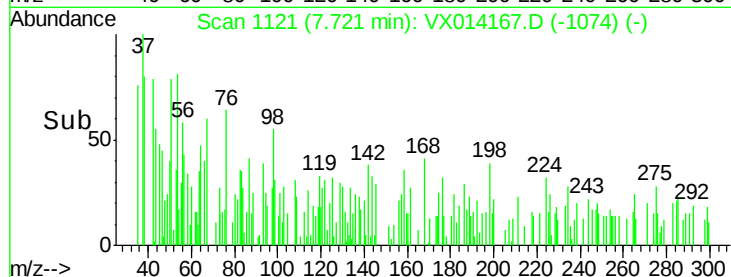
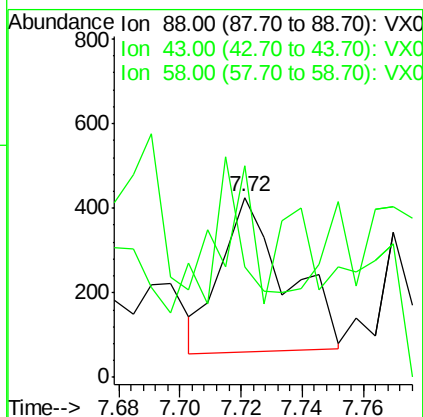
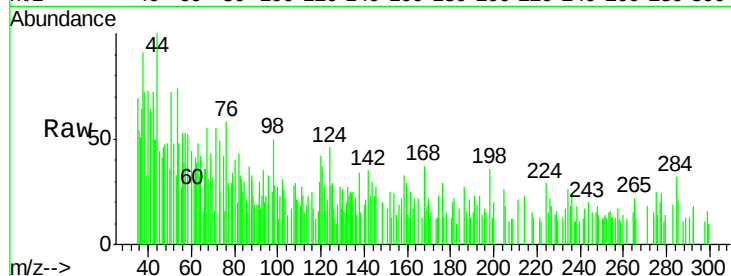
Tgt Ion: 88 Resp: 542

Ion Ratio Lower Upper

88 100

43 40.0 26.5 39.7#

58 51.3 56.8 85.2#



#50

Toluene-d8

Concen: 49.570 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014167.D

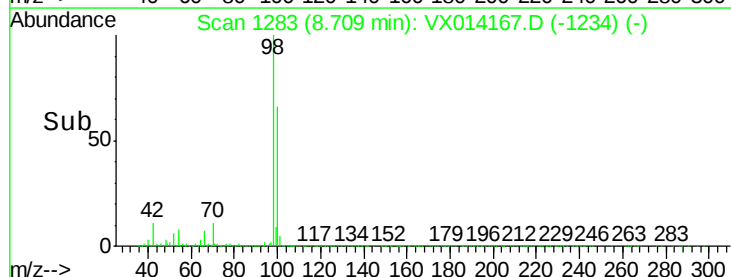
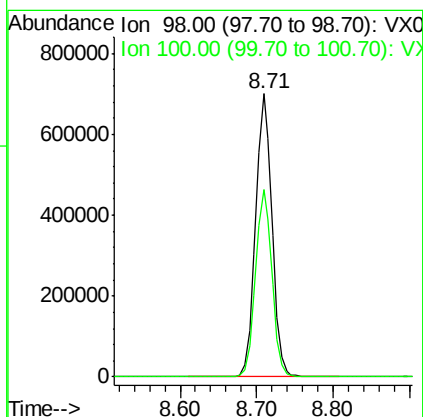
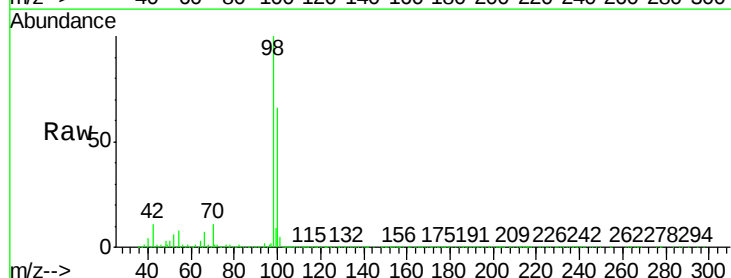
Acq: 20 Dec 2019 12:33

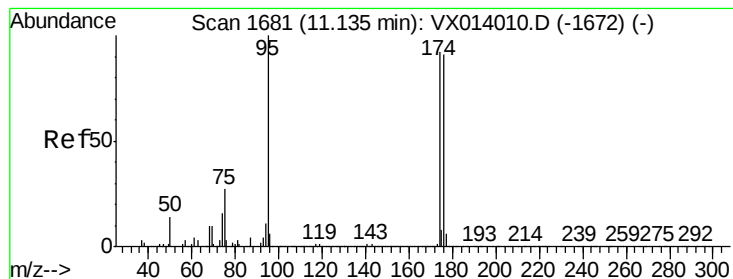
Tgt Ion: 98 Resp: 1052278

Ion Ratio Lower Upper

98 100

100 66.0 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 44.942 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

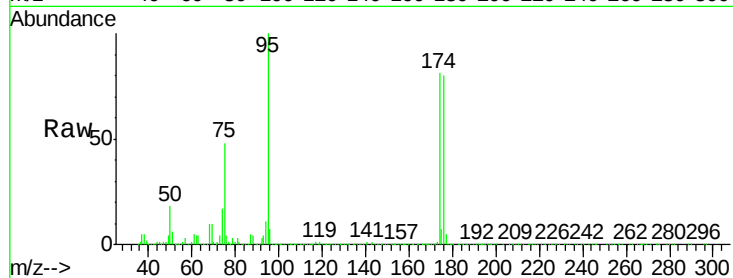
Tgt Ion: 95 Resp: 348737

Ion Ratio Lower Upper

95 100

174 90.9 0.0 175.8

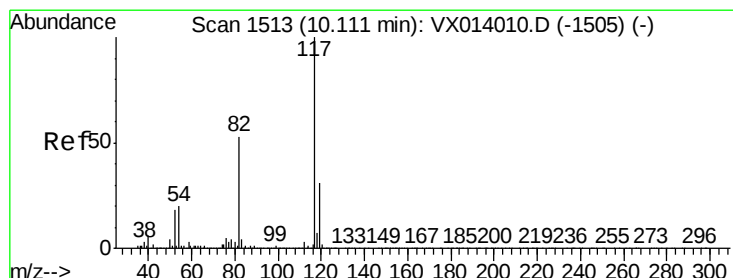
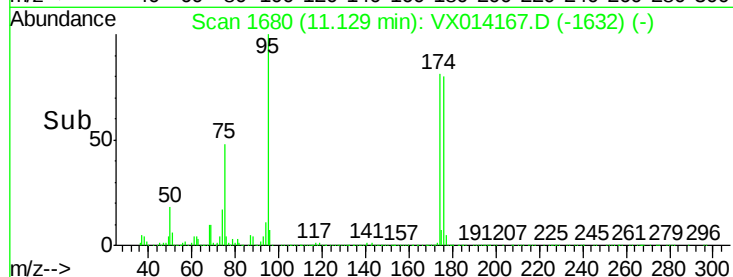
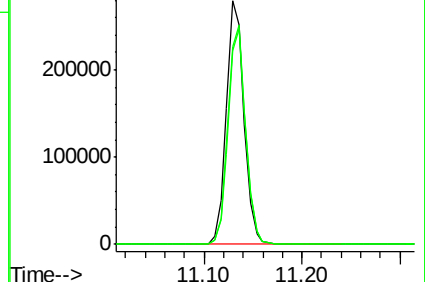
176 88.3 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX014010.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX014010.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX014010.D (-1672) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

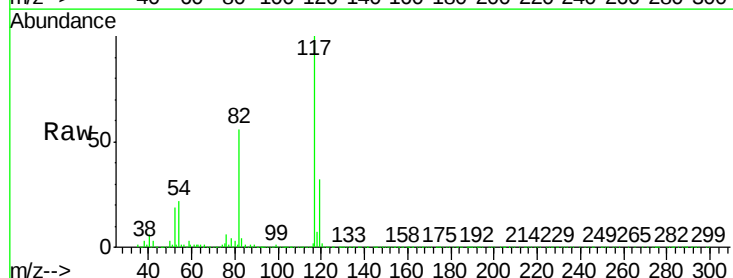
Tgt Ion: 117 Resp: 783356

Ion Ratio Lower Upper

117 100

82 56.4 42.2 63.4

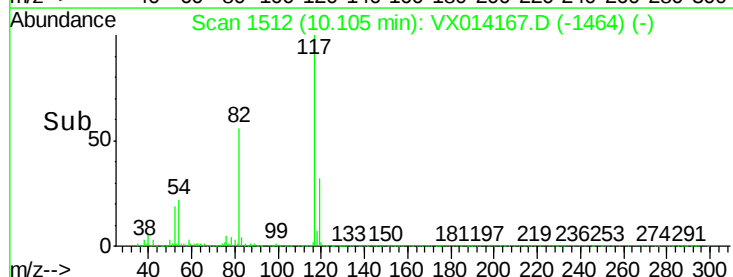
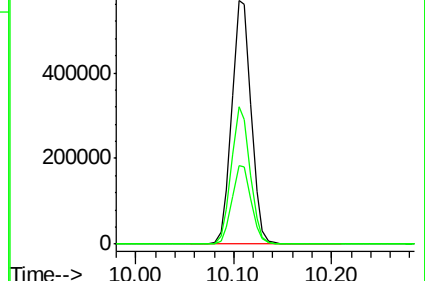
119 32.2 25.1 37.7

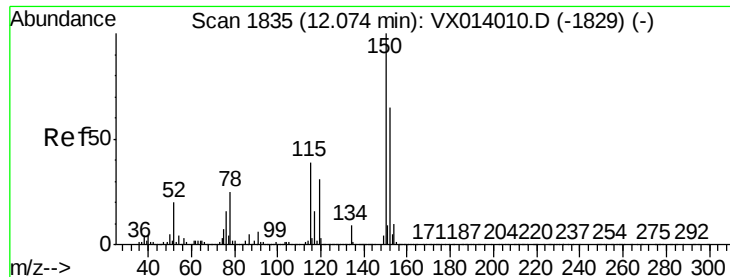


Abundance Ion 116.90 (116.60 to 117.60): VX014010.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX014010.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX014010.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

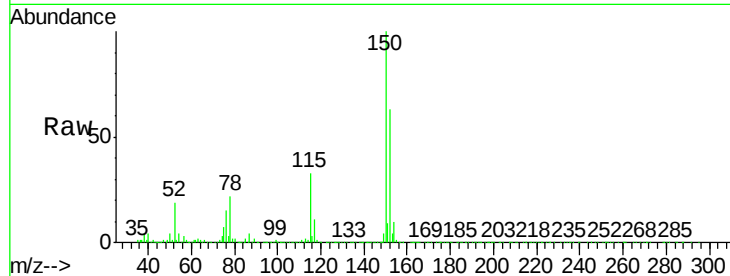
Tgt Ion: 152 Resp: 347001

Ion Ratio Lower Upper

152 100

115 54.5 38.3 114.9

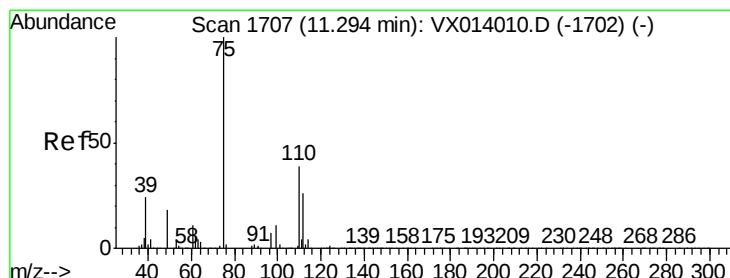
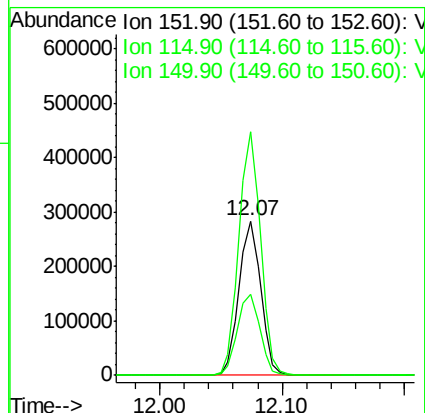
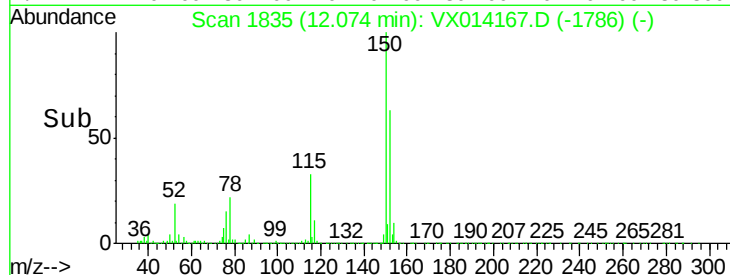
150 157.3 0.0 345.4



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



#76

1,2,3-Trichloropropane

Concen: 22.512 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014167.D

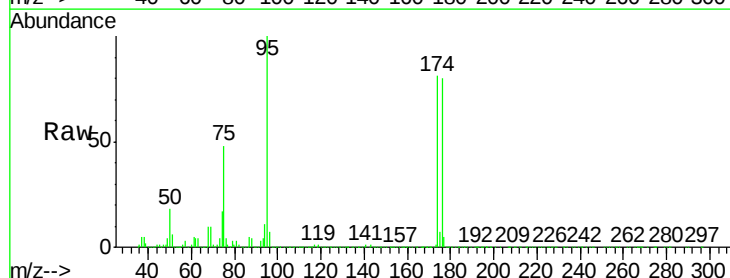
Acq: 20 Dec 2019 12:33

Tgt Ion: 75 Resp: 169587

Ion Ratio Lower Upper

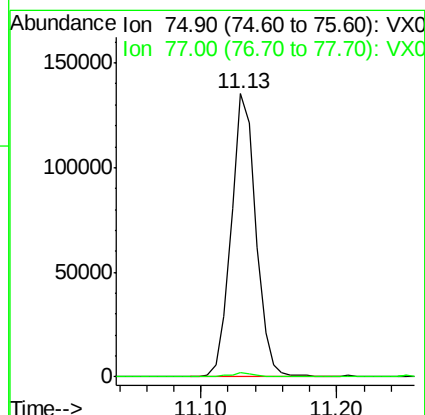
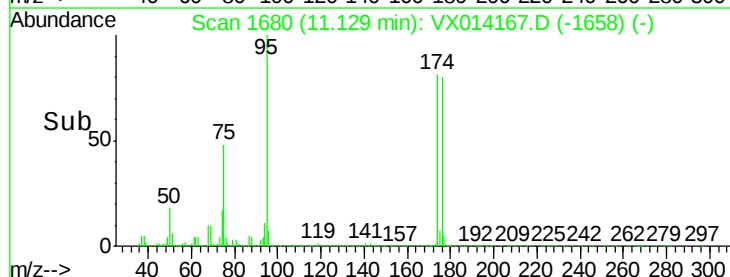
75 100

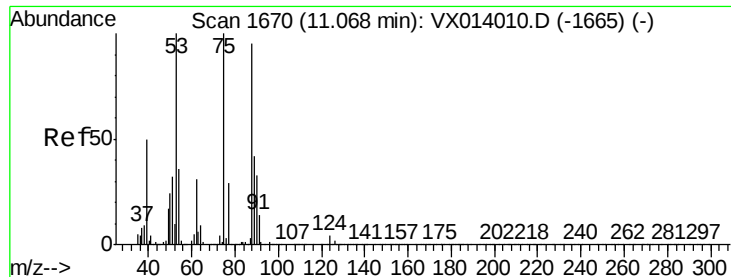
77 1.3 19.3 57.8#



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: 63.539 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

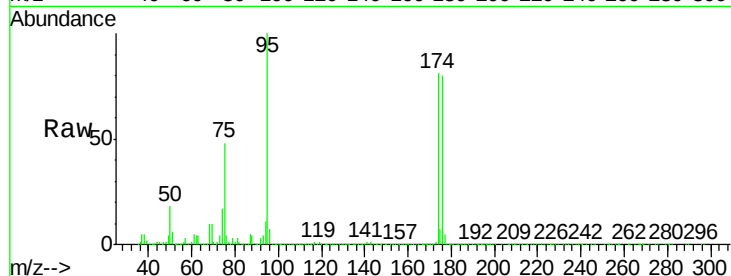
Tgt Ion: 75 Resp: 169587

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

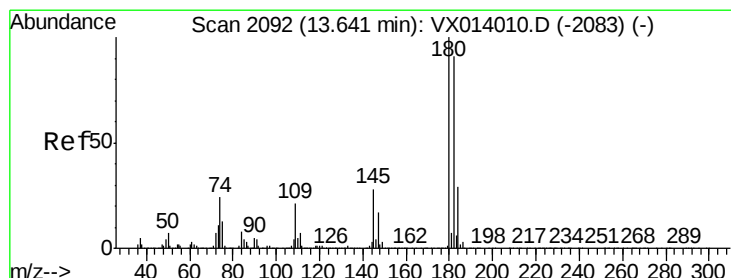
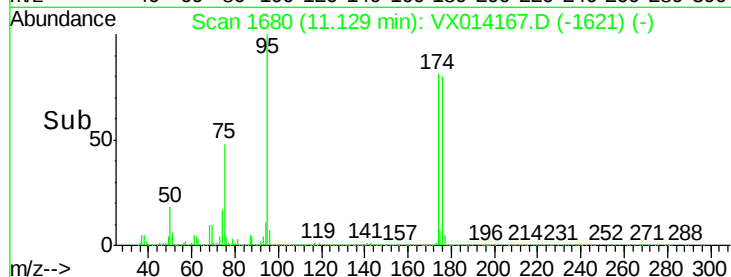
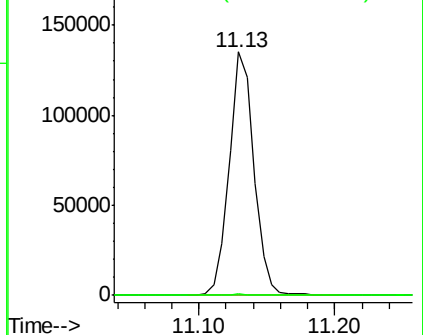
89 0.1 34.6 51.8#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.241 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

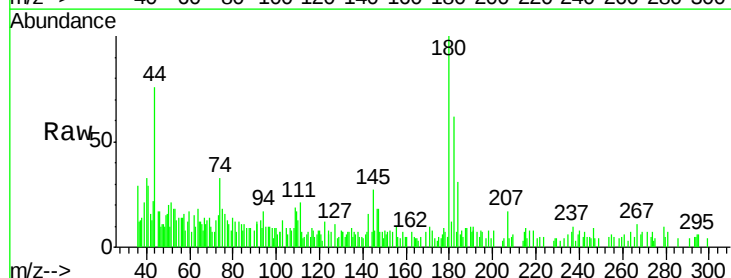
Tgt Ion:180 Resp: 1858

Ion Ratio Lower Upper

180 100

182 89.0 46.6 139.8

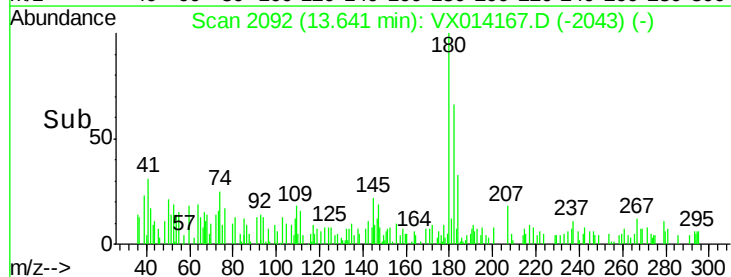
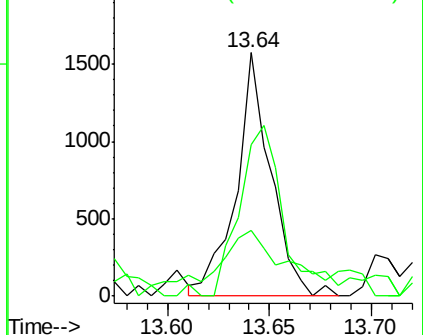
145 59.0 14.2 42.6#

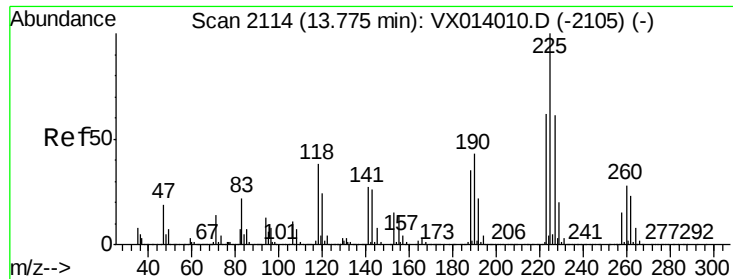


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.218 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014167.D

Acq: 20 Dec 2019 12:33

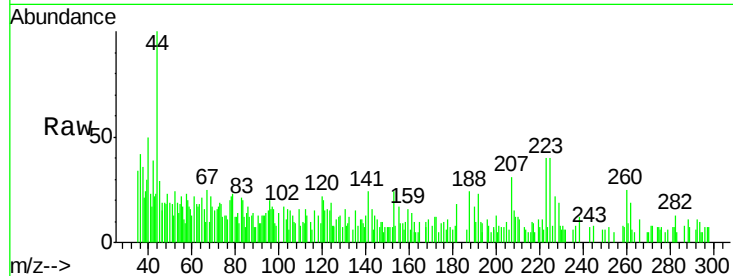
Instrument :

MSVOA_X

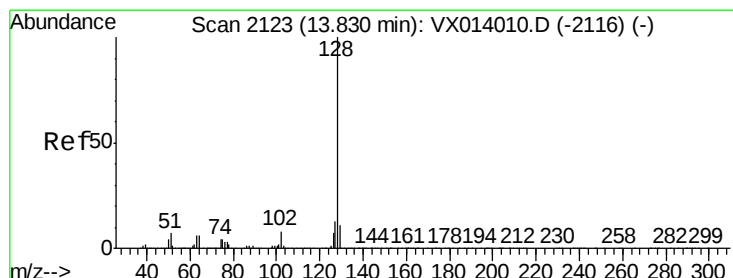
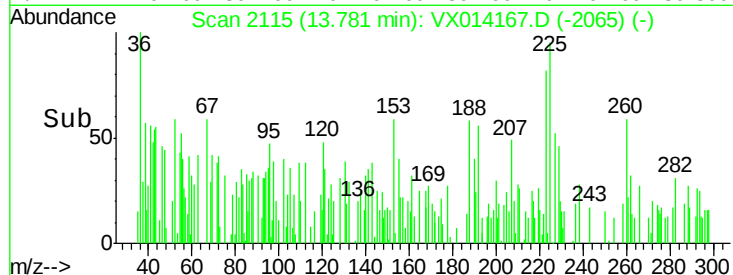
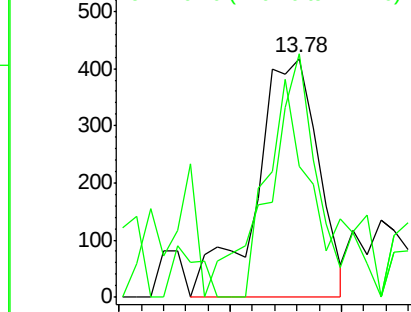
ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

Tgt Ion:	225	Resp:	807
Ion	Ratio	Lower	Upper
225	100		
223	75.8	30.9	92.5
227	72.7	30.9	92.7



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: 0.376 ug/l

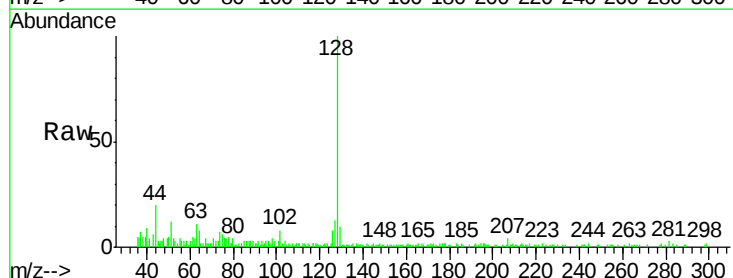
RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

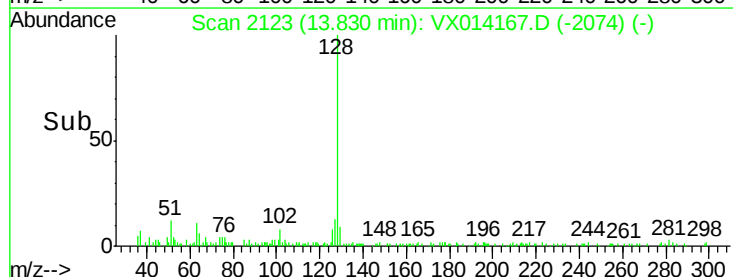
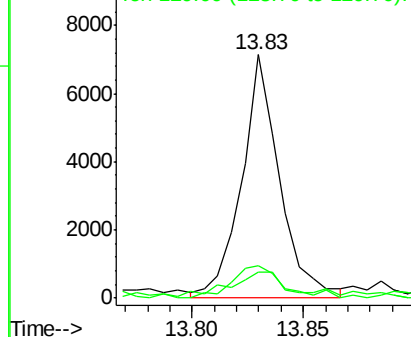
Lab File: VX014167.D

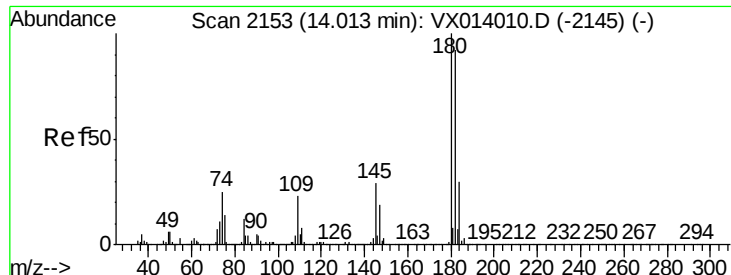
Acq: 20 Dec 2019 12:33

Tgt Ion:	128	Resp:	8512
Ion	Ratio	Lower	Upper
128	100		
127	18.2	10.2	15.4#
129	12.3	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

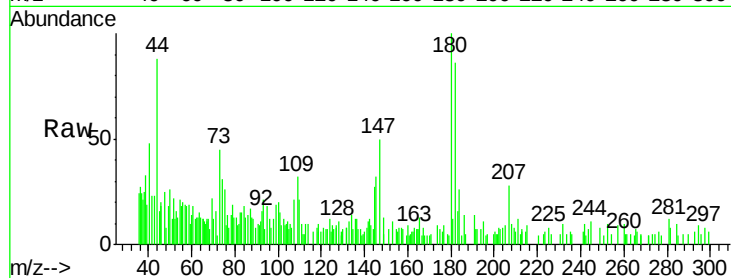




#96
 1,2,3-Trichlorobenzene
 Concen: 0.272 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014167.D
 Acq: 20 Dec 2019 12:33

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

Tgt Ion	Ratio	Lower	Upper
180	100		
182	106.7	46.8	140.3
145	44.2	14.8	44.4



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

