

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014305.D
 Acq On : 27 Dec 2019 13:48
 Operator : JC/SP
 Sample : K6457-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

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

Quant Time: Dec 30 05:34:14 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	530551	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	821365	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	738311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	316093	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	295114	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
35) Dibromofluoromethane	5.48	113	246046	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
50) Toluene-d8	8.71	98	973279	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	11.13	95	324055	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	

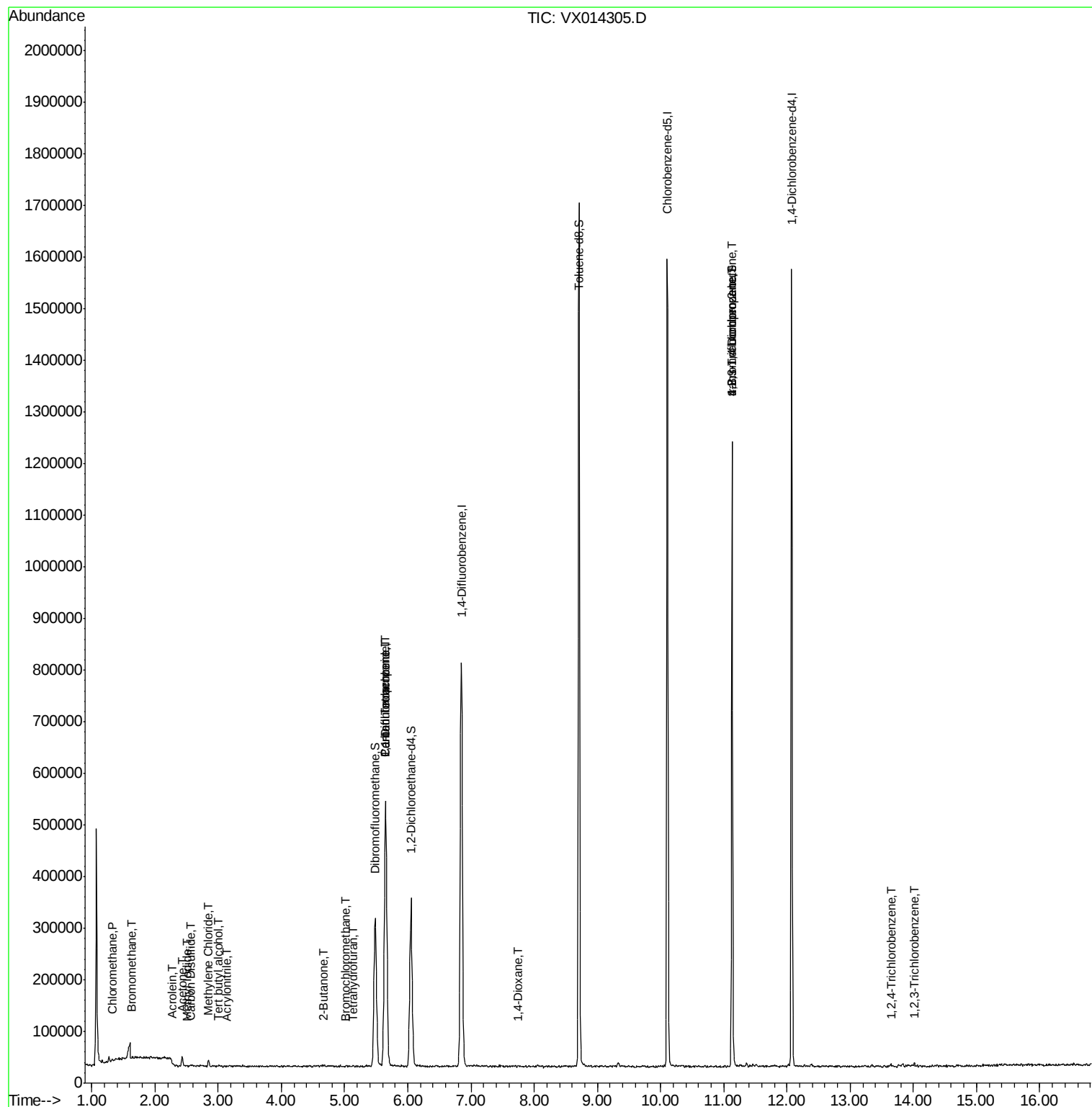
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1381	0.217	ug/l #	86
5) Bromomethane	1.64	94	1397	0.293	ug/l	87
10) Methyl Iodide	2.51	142	2256	2.944	ug/l #	71
11) Tert butyl alcohol	3.00	59	344	0.265	ug/l #	1
13) Acrolein	2.28	56	294	0.395	ug/l #	14
15) Acrylonitrile	3.13	53	931	0.307	ug/l #	34
16) Acetone	2.43	43	17878	4.580	ug/l	98
17) Carbon Disulfide	2.56	76	2307	0.911	ug/l #	87
20) Methylene Chloride	2.84	84	5596	0.910	ug/l #	94
25) 2-Butanone	4.67	43	4896	1.017	ug/l #	75
28) Bromochloromethane	5.01	49	739	0.642	ug/l #	94
29) Tetrahydrofuran	5.14	42	1710	0.635	ug/l #	53
36) 1,1-Dichloropropene	5.64	75	35740	4.742	ug/l #	51
38) Carbon Tetrachloride	5.65	117	46451	6.766	ug/l #	17
49) 1,4-Dioxane	7.73	88	298	2.171	ug/l #	34
76) 1,2,3-Trichloropropane	11.13	75	156878	22.861	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	156878	64.525	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.64	180	1935	0.276	ug/l	85
96) 1,2,3-Trichlorobenzene	14.02	180	1601	0.231	ug/l	85

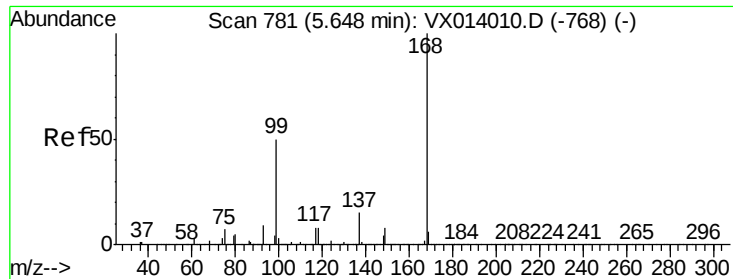
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

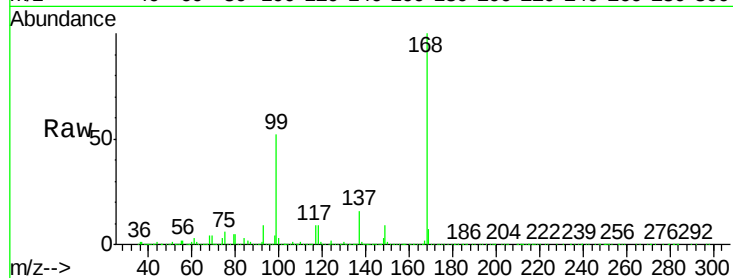
STORAGE-BLANK-SOIL-REF-6

Tgt Ion:168 Resp: 530551

Ion Ratio Lower Upper

168 100

99 51.6 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

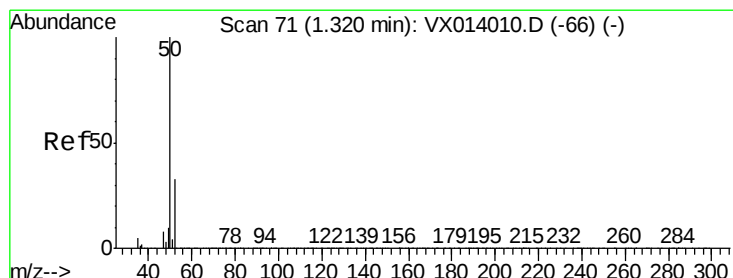
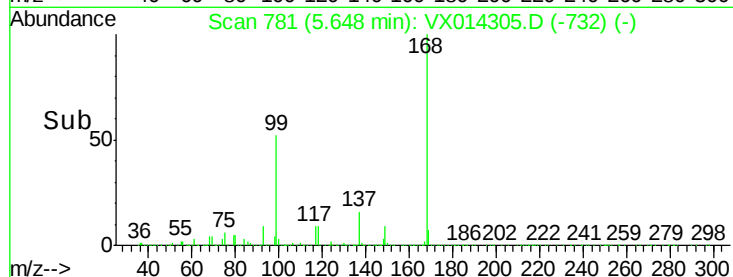
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014305.D

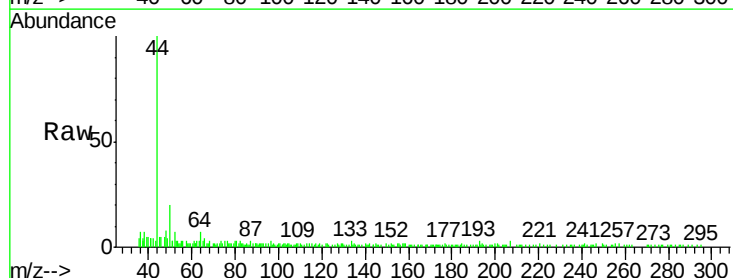
Acq: 27 Dec 2019 13:48

Tgt Ion: 50 Resp: 1381

Ion Ratio Lower Upper

50 100

52 40.4 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

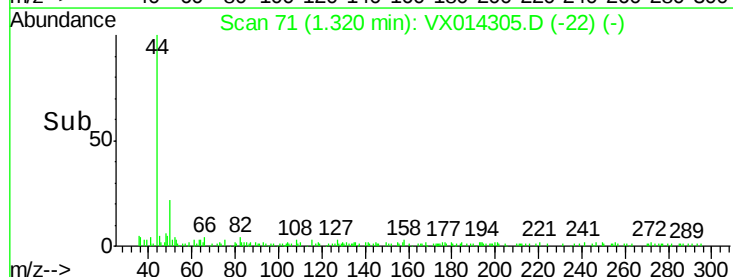
1500

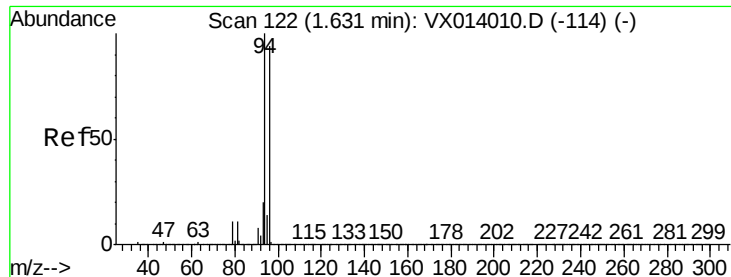
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.293 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

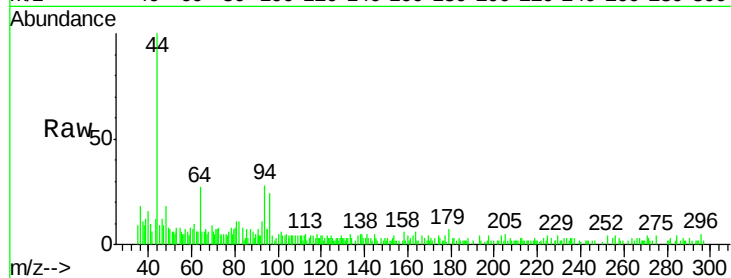
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 94 Resp: 1397

Ion Ratio Lower Upper

94 100

96 81.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1200

1000

800

600

400

200

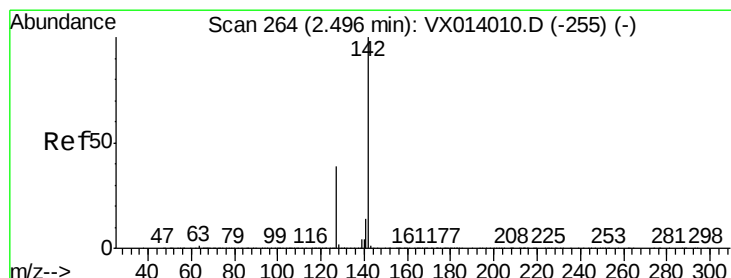
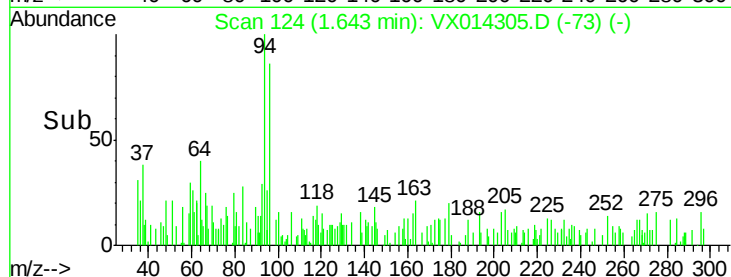
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Time-->

1.60

1.65

1.70



#10

Methyl Iodide

Concen: 2.944 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

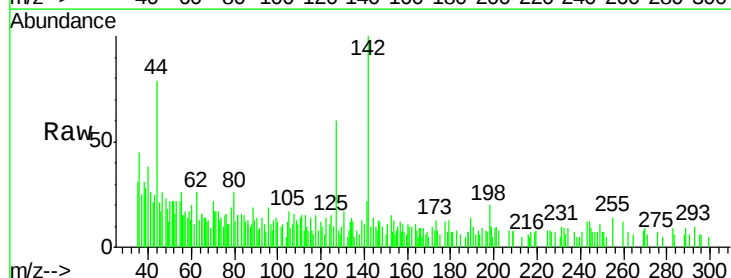
Tgt Ion: 142 Resp: 2256

Ion Ratio Lower Upper

142 100

127 58.0 31.6 47.4#

141 24.4 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

1500

1000

500

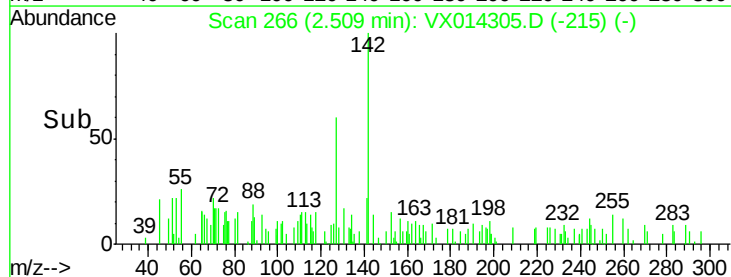
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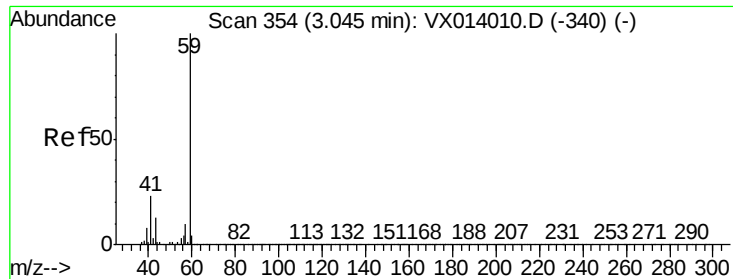
Time-->

2.45

2.50

2.55



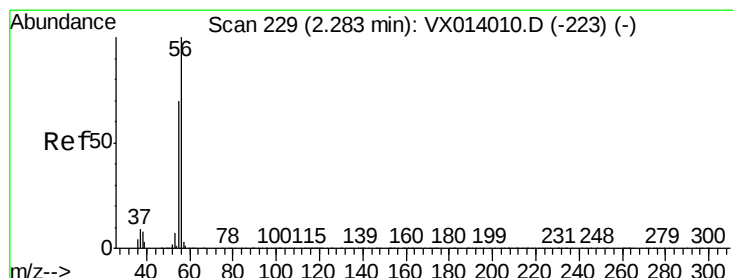
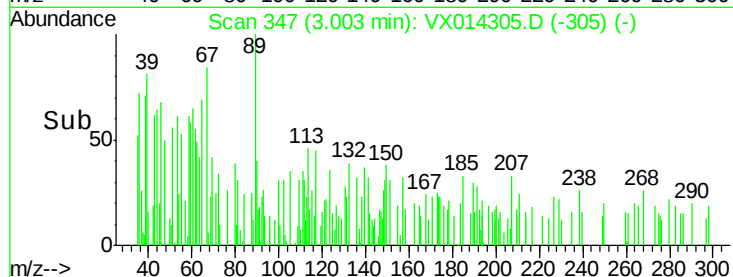
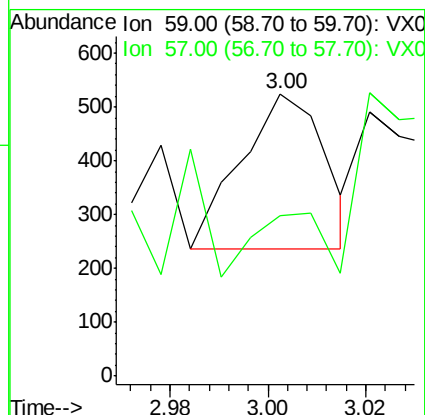
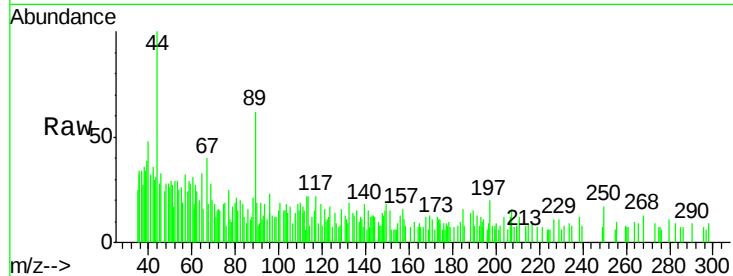


#11

Tert butyl alcohol
 Concen: 0.265 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX014305.D
 Acq: 27 Dec 2019 13:48

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

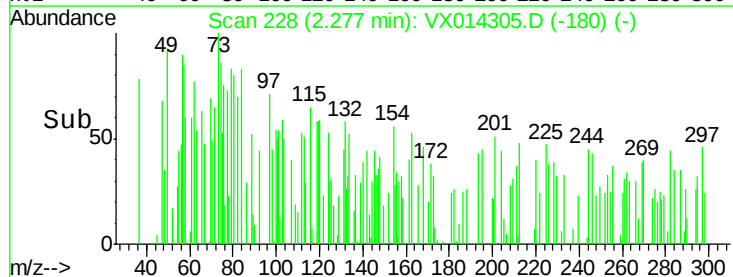
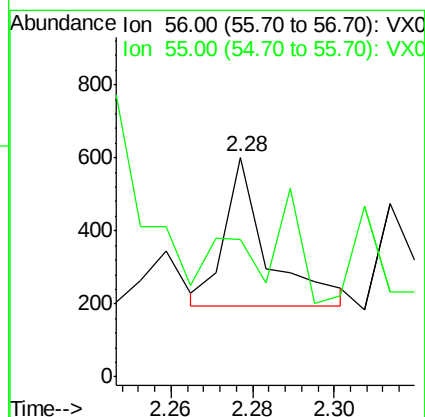
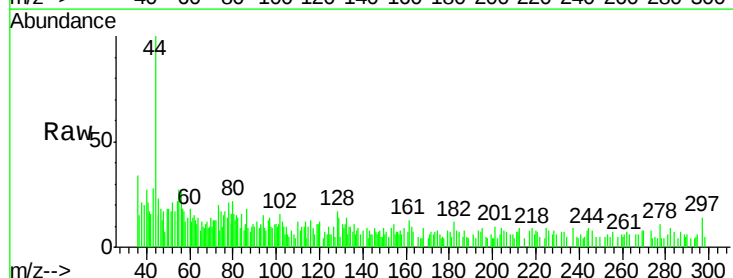
Tgt Ion: 59 Resp: 344
 Ion Ratio Lower Upper
 59 100
 57 137.8 8.4 12.6#

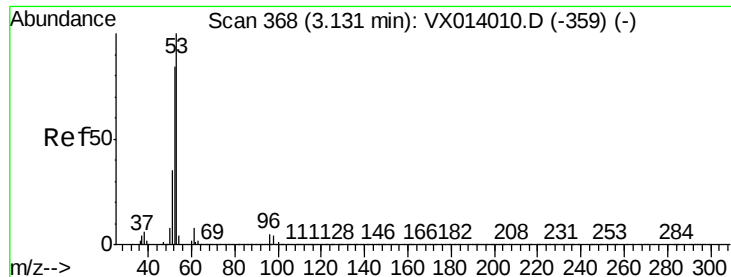


#13

Acrolein
 Concen: 0.395 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX014305.D
 Acq: 27 Dec 2019 13:48

Tgt Ion: 56 Resp: 294
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.307 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

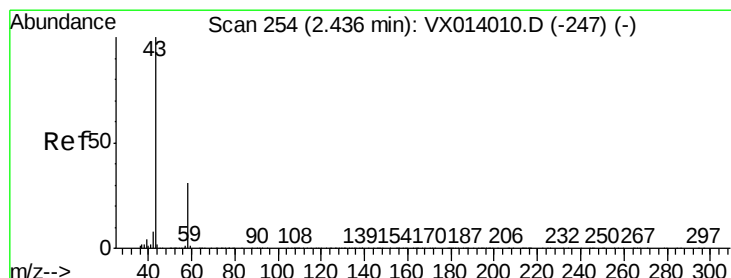
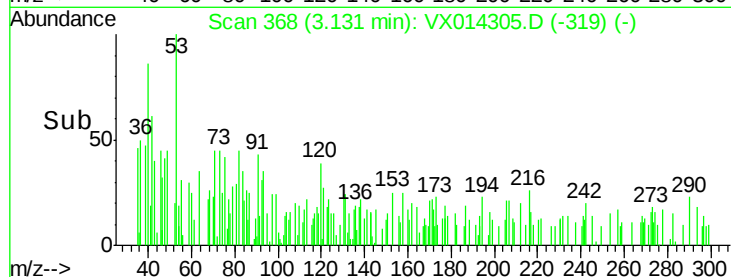
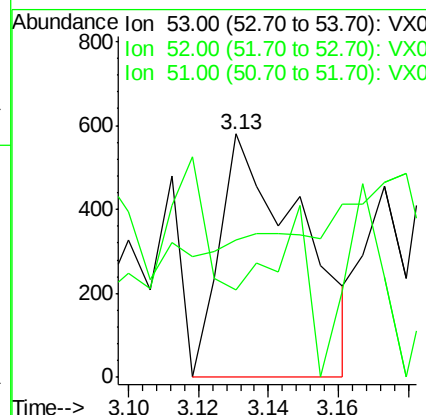
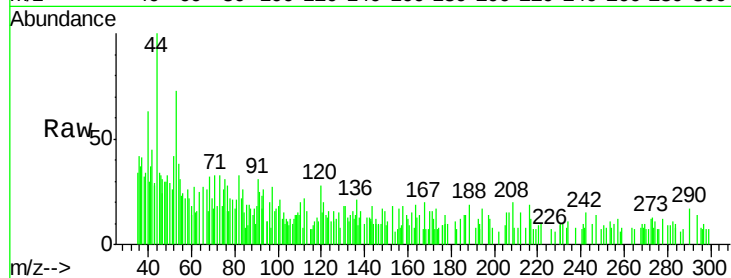
Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

Tgt Ion:	53	Resp:	931
Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.5	99.7#
51	36.6	28.1	42.1



#16

Acetone

Concen: 4.580 ug/l

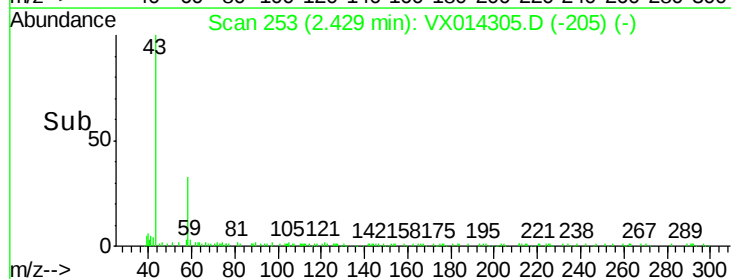
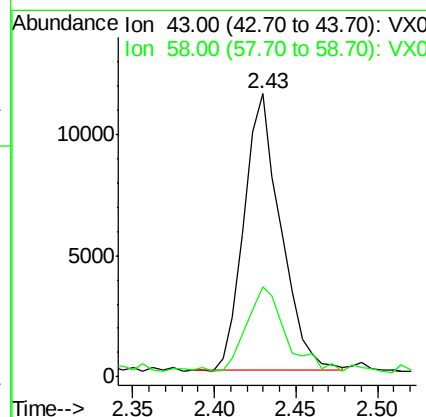
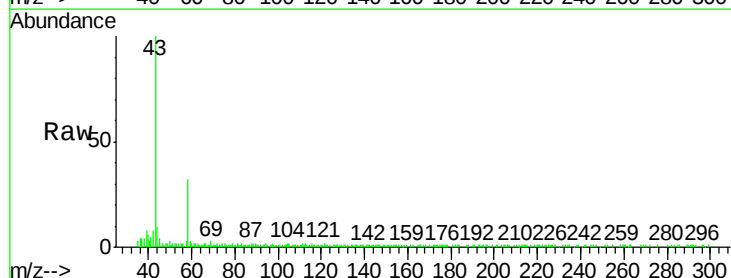
RT: 2.43 min Scan# 253

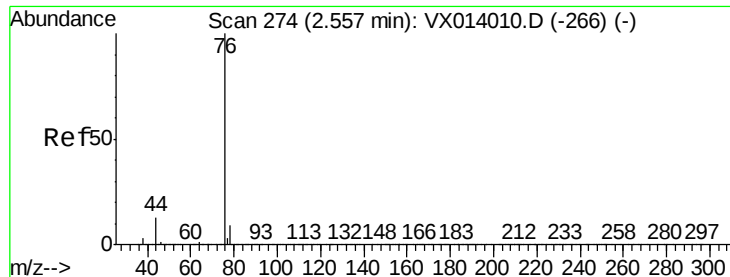
Delta R.T. -0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Tgt Ion:	43	Resp:	17878
Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.9	37.3





#17

Carbon Disulfide

Concen: 0.911 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

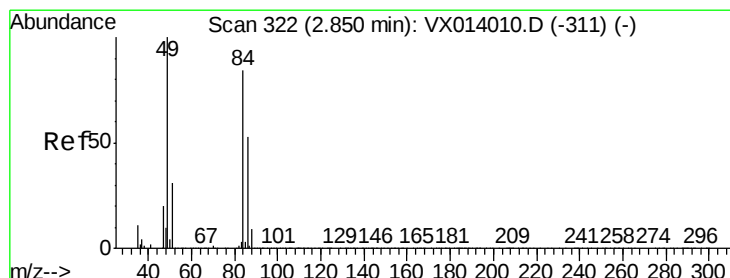
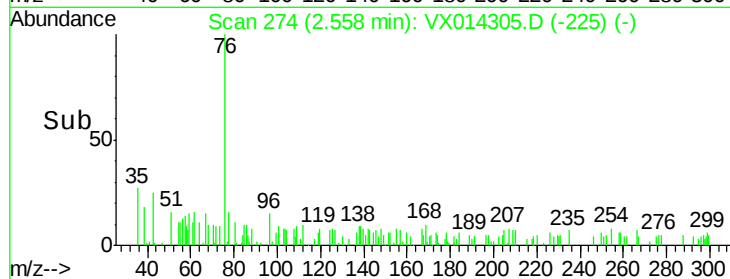
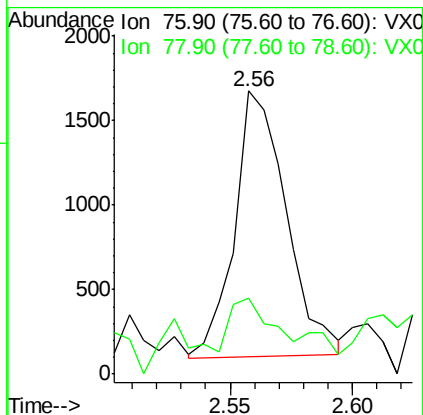
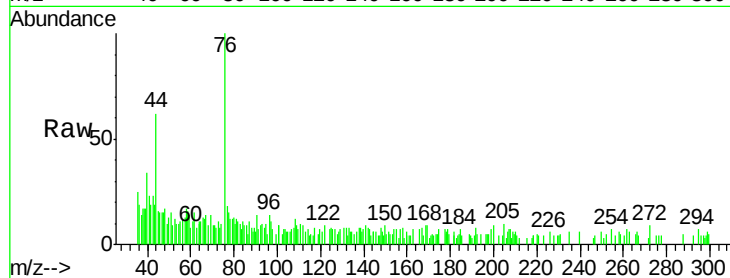
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 76 Resp: 2307

Ion Ratio Lower Upper

76 100

78 13.9 7.2 10.8#



#20

Methylene Chloride

Concen: 0.910 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Tgt Ion: 84 Resp: 5596

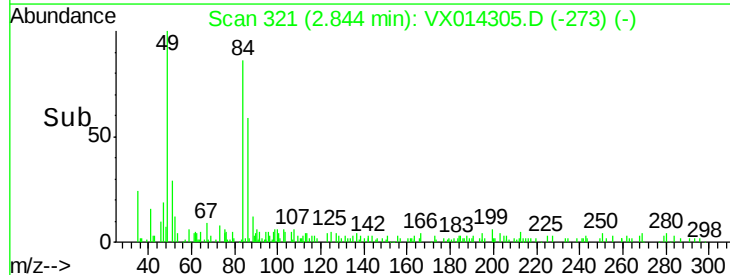
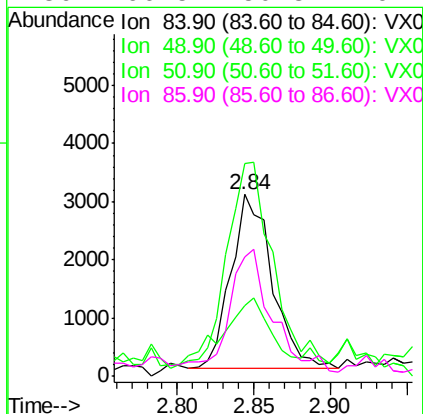
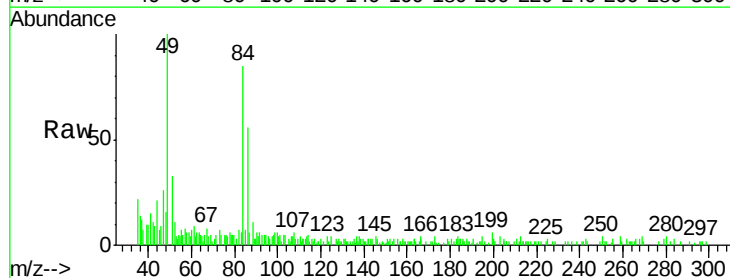
Ion Ratio Lower Upper

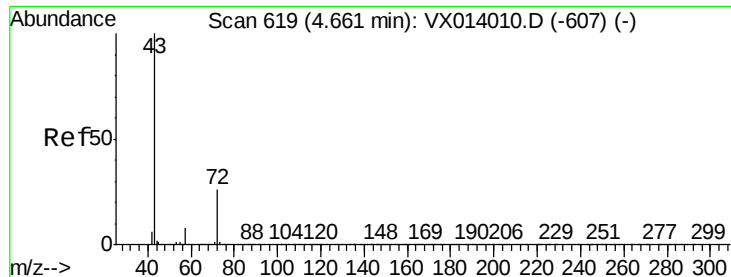
84 100

49 114.1 95.8 143.6

51 28.3 29.8 44.8#

86 66.5 50.8 76.2





#25

2-Butanone

Concen: 1.017 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

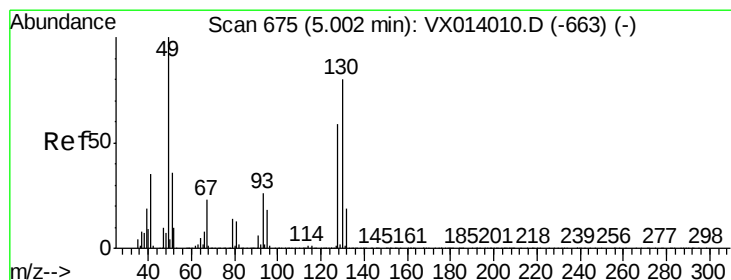
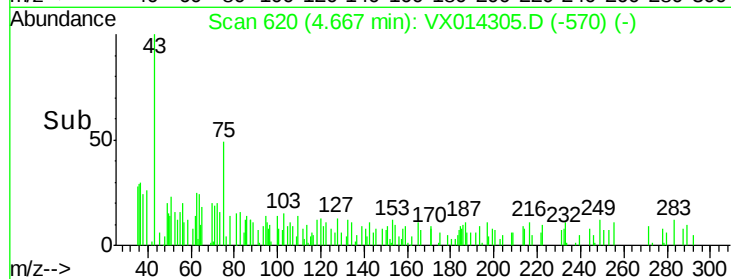
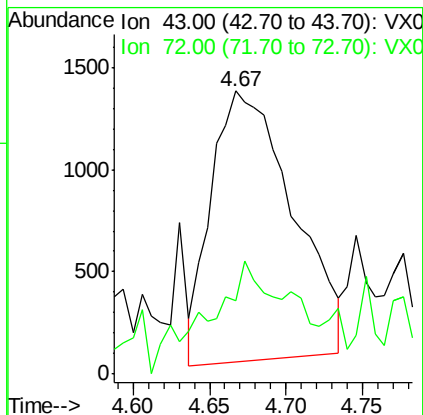
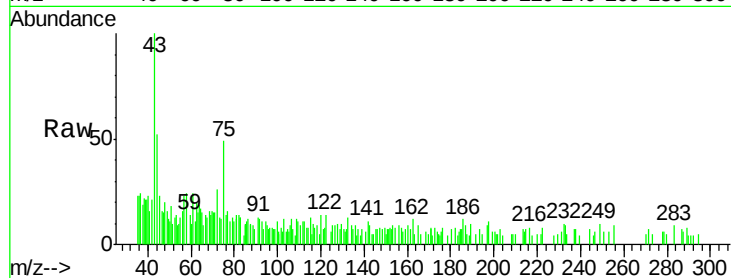
STORAGE-BLANK-SOIL-REF-6

Tgt Ion: 43 Resp: 4896

Ion Ratio Lower Upper

43 100

72 13.5 21.0 31.4#



#28

Bromochloromethane

Concen: 0.642 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

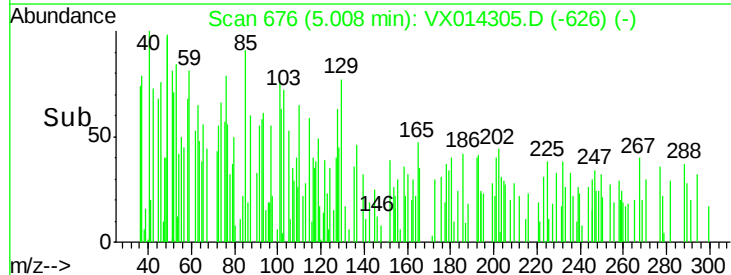
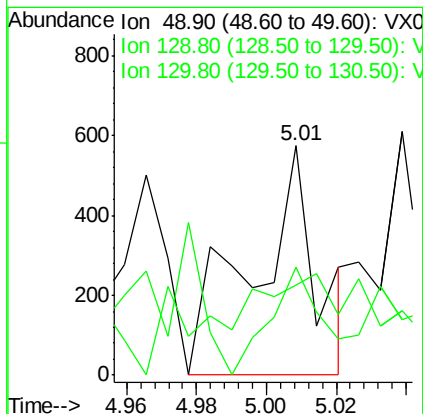
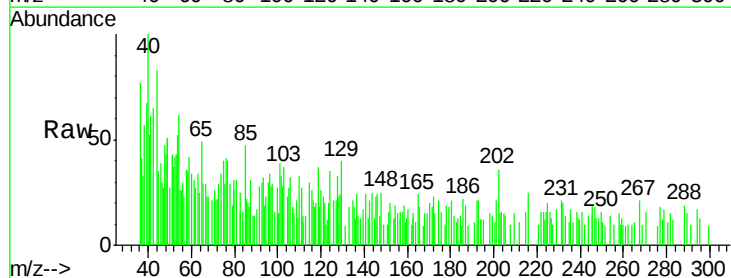
Tgt Ion: 49 Resp: 739

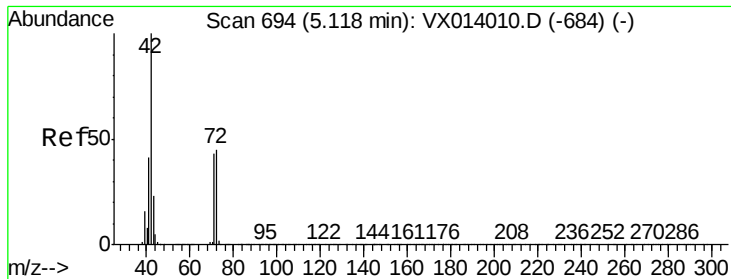
Ion Ratio Lower Upper

49 100

129 37.5 0.0 5.0#

130 83.1 64.6 97.0





#29

Tetrahydrofuran

Concen: 0.635 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

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STORAGE-BLANK-SOIL-REF-6

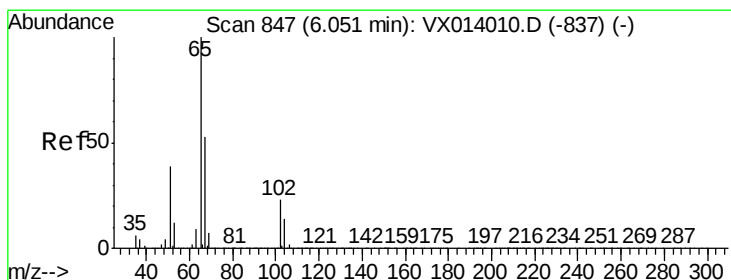
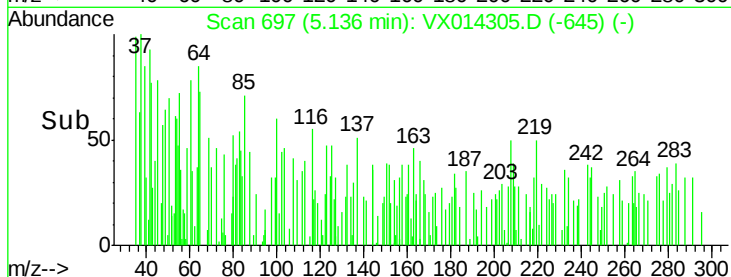
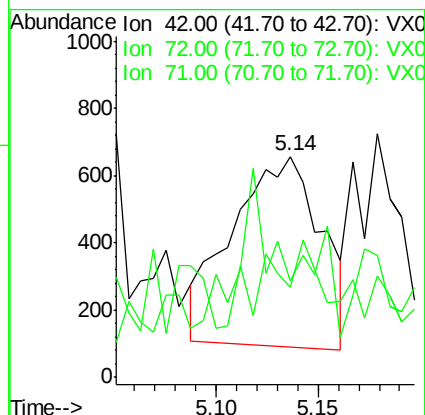
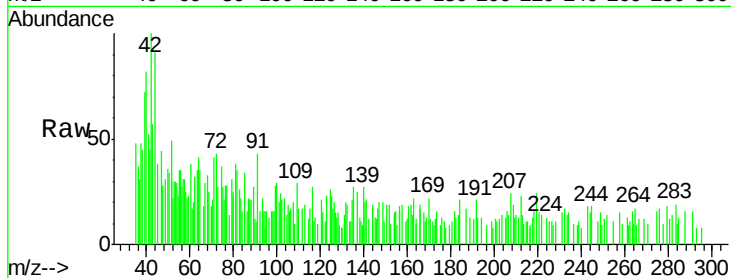
Tgt Ion: 42 Resp: 1710

Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.8#

71 26.6 33.6 50.4#



#33

1,2-Dichloroethane-d4

Concen: 49.079 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014305.D

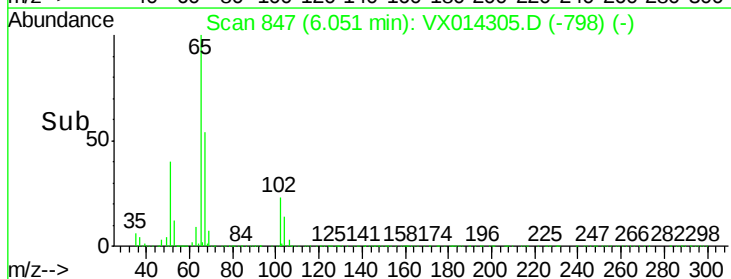
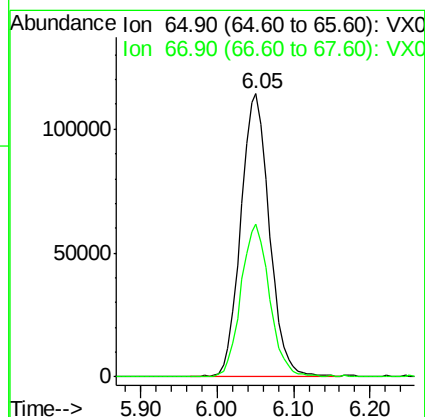
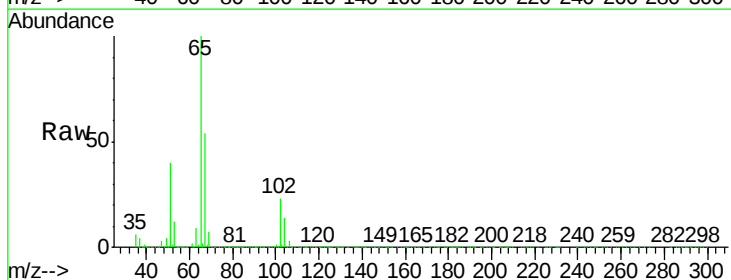
Acq: 27 Dec 2019 13:48

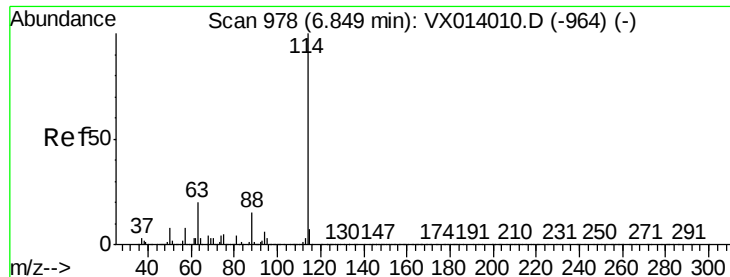
Tgt Ion: 65 Resp: 295114

Ion Ratio Lower Upper

65 100

67 53.5 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: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

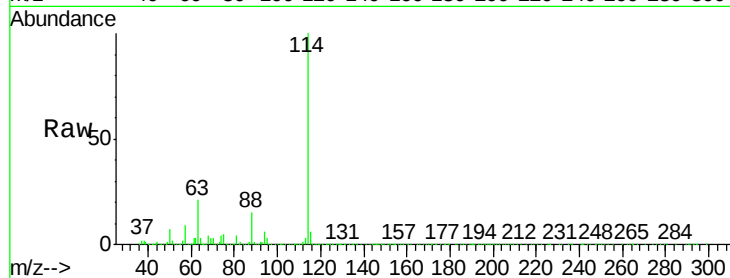
Tgt Ion:114 Resp: 821365

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

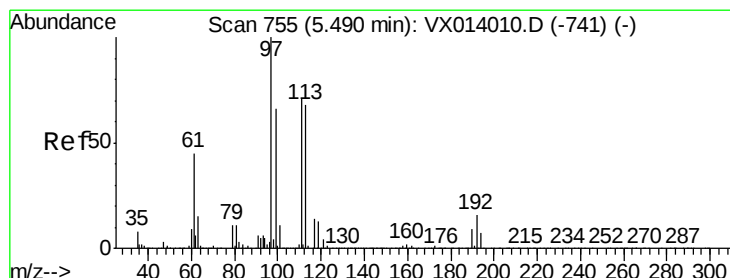
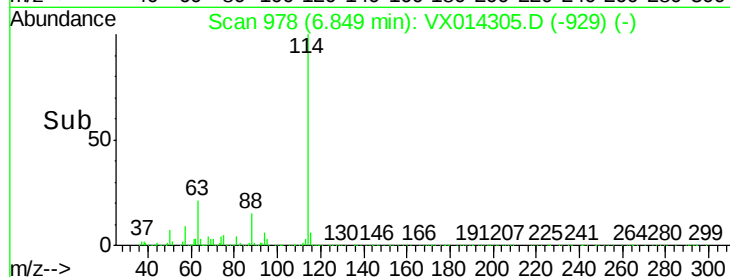
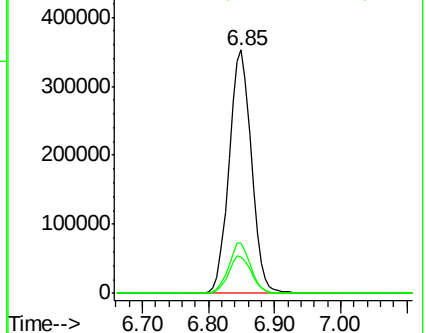
88 14.9 0.0 30.4



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: 49.278 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

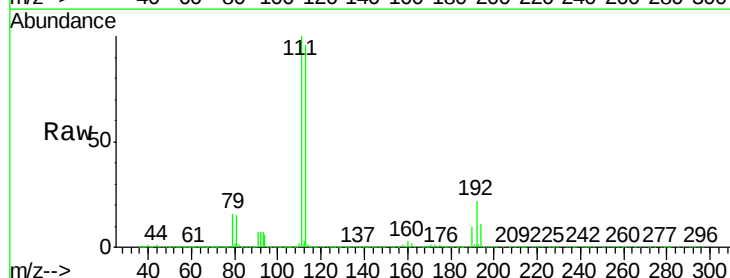
Tgt Ion:113 Resp: 246046

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

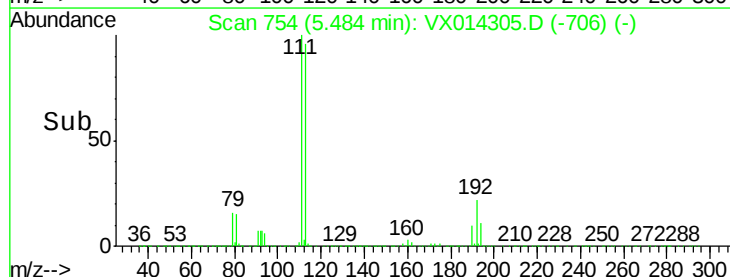
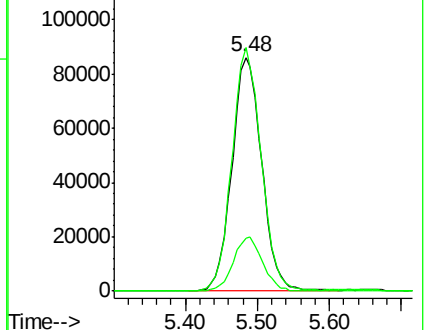
192 23.0 19.3 28.9

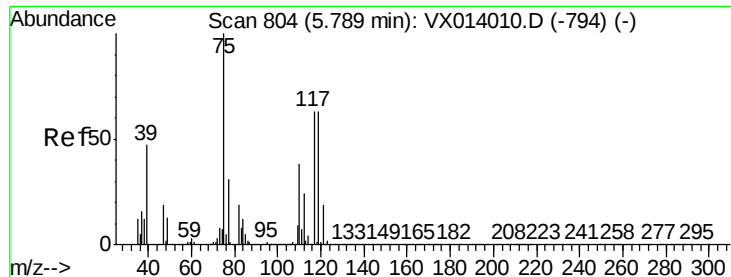


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

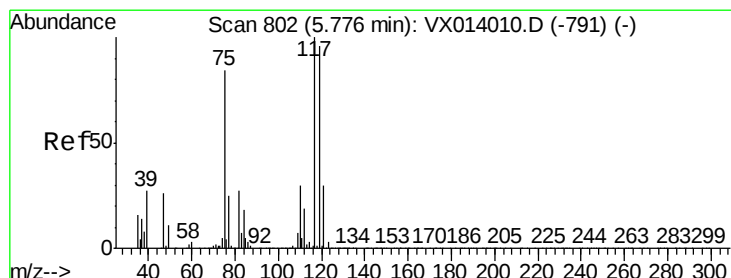
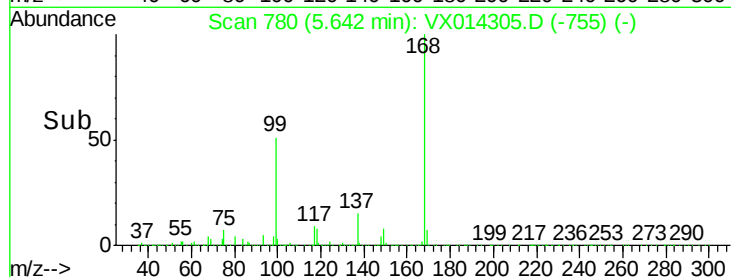
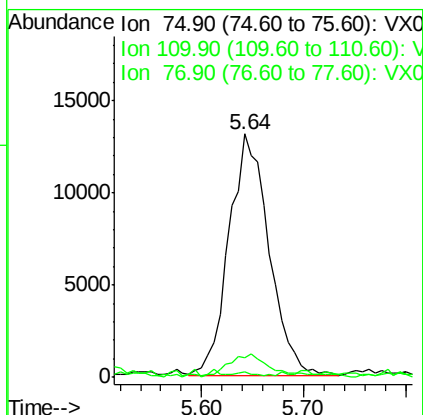
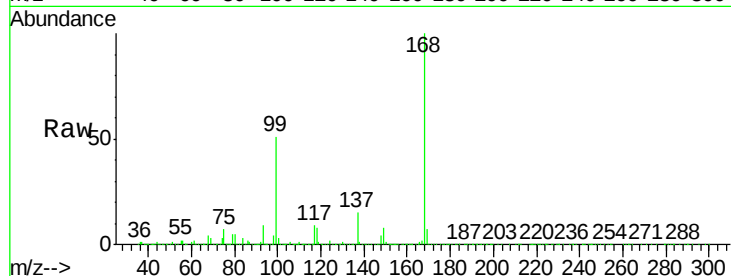




#36
 1,1-Dichloropropene
 Concen: 4.742 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX014305.D
 Acq: 27 Dec 2019 13:48

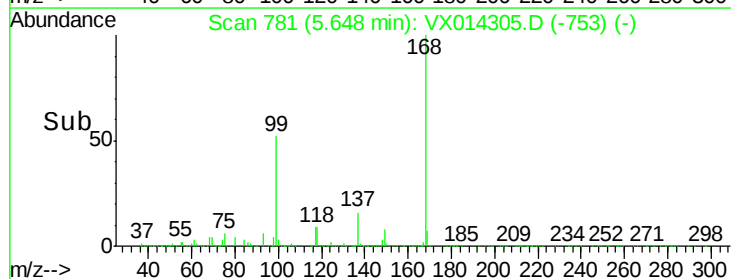
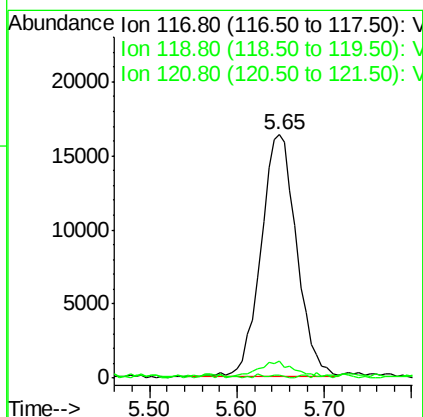
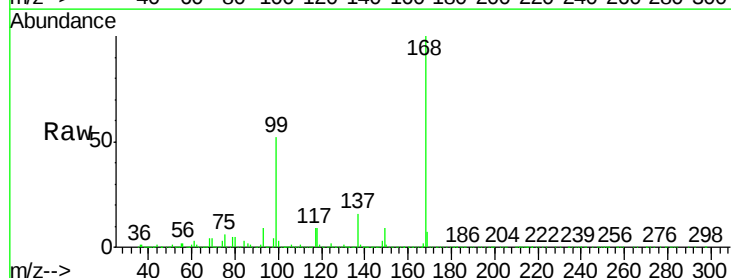
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SOIL-REF-6

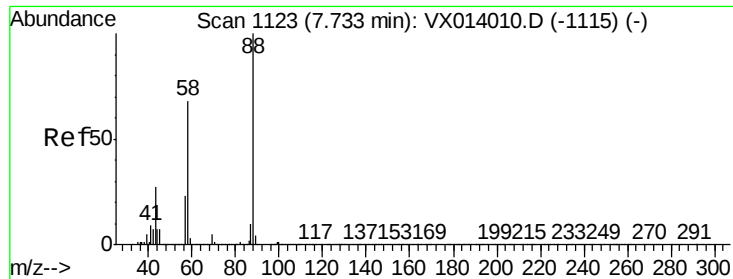
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	18.3	54.9#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.766 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014305.D
 Acq: 27 Dec 2019 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.2	114.4#
121	0.1	23.6	35.4#





#49

1,4-Dioxane

Concen: 2.171 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

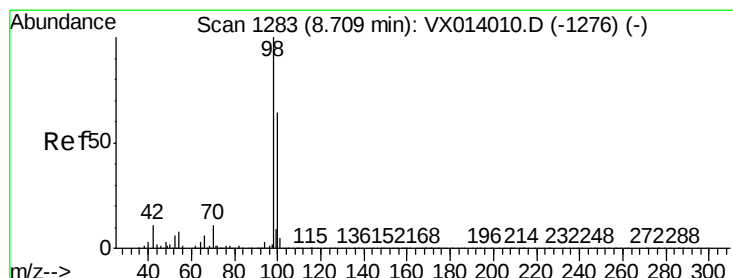
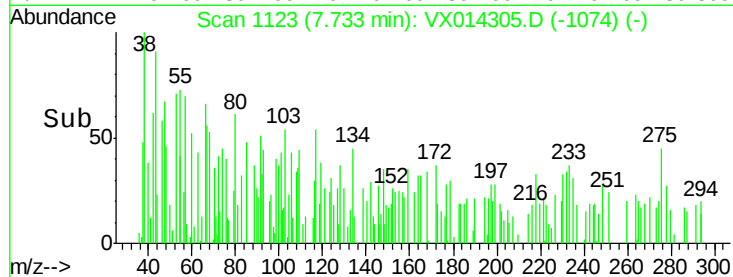
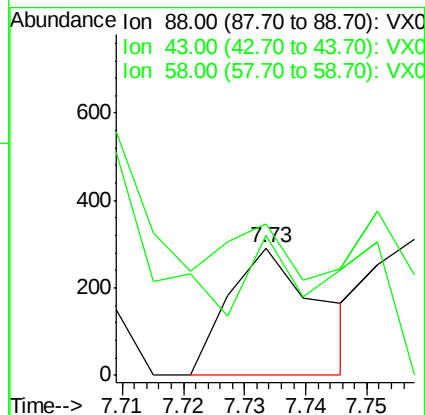
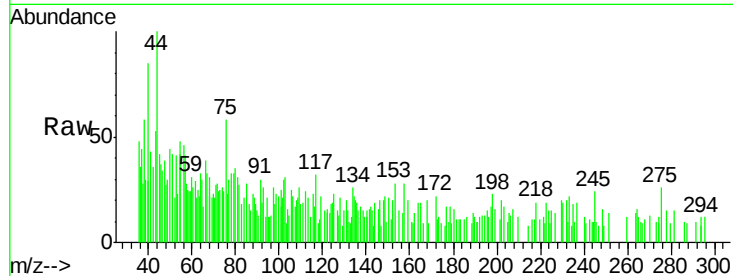
Tgt Ion: 88 Resp: 298

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 128.5 56.8 85.2#



#50

Toluene-d8

Concen: 50.069 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014305.D

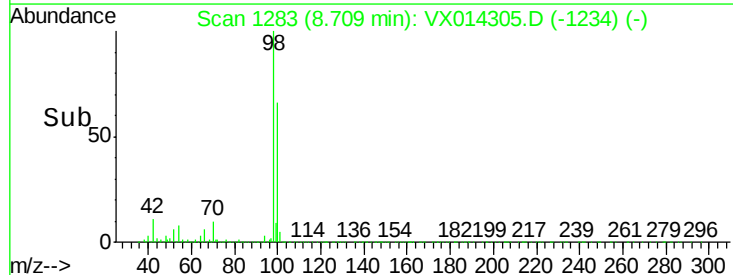
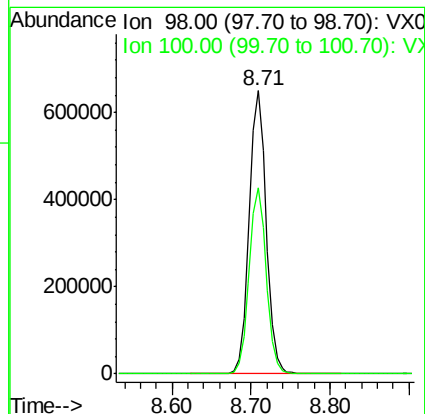
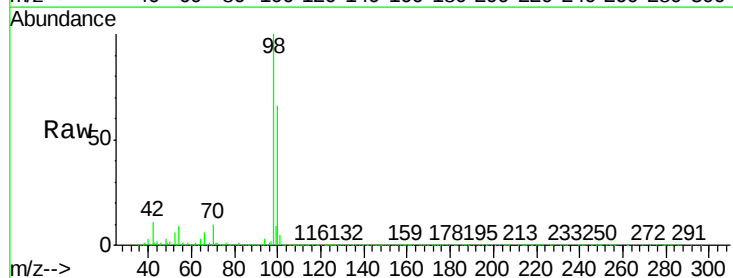
Acq: 27 Dec 2019 13:48

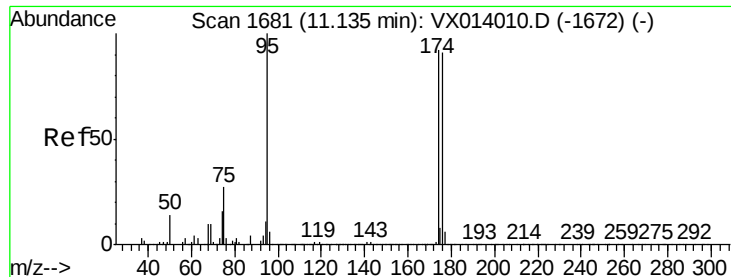
Tgt Ion: 98 Resp: 973279

Ion Ratio Lower Upper

98 100

100 66.2 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 45.604 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

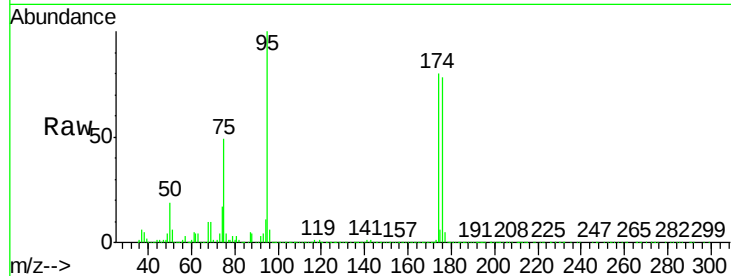
Tgt Ion: 95 Resp: 324055

Ion Ratio Lower Upper

95 100

174 87.7 0.0 175.8

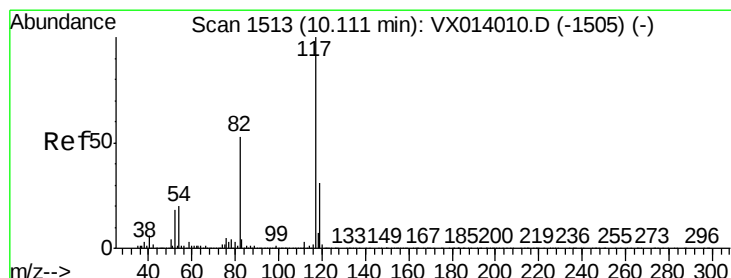
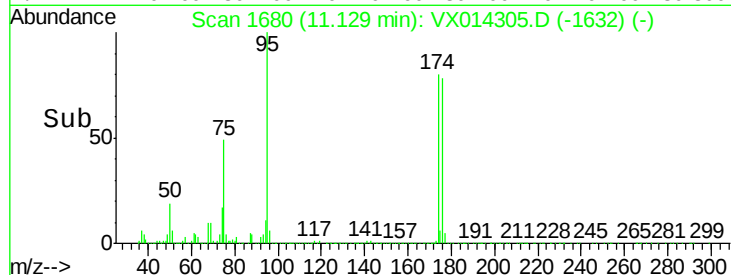
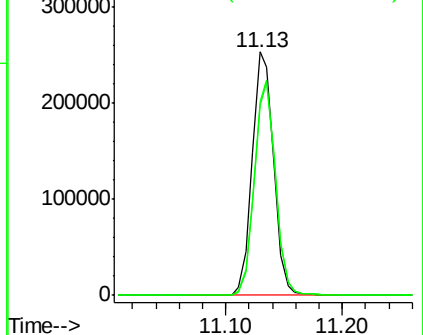
176 86.4 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

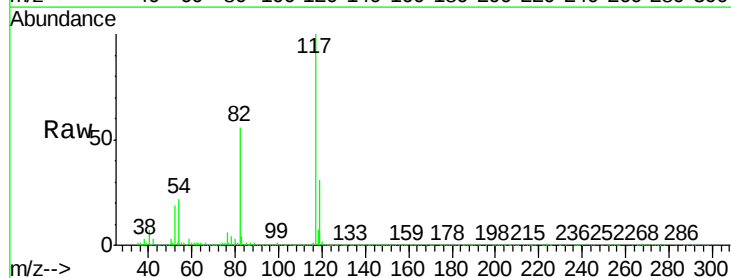
Tgt Ion: 117 Resp: 738311

Ion Ratio Lower Upper

117 100

82 55.6 42.2 63.4

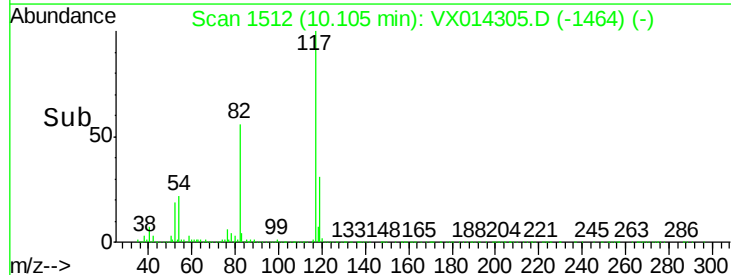
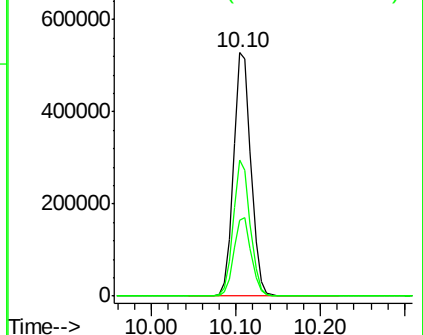
119 31.4 25.1 37.7

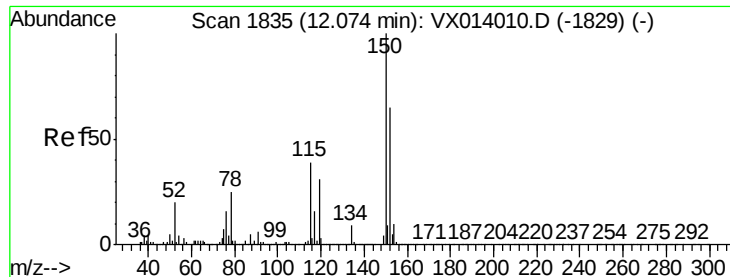


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

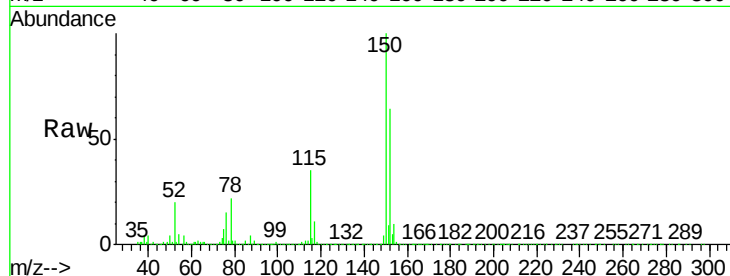
Tgt Ion: 152 Resp: 316093

Ion Ratio Lower Upper

152 100

115 54.4 38.3 114.9

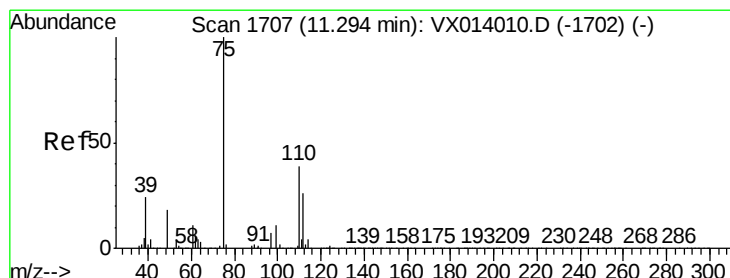
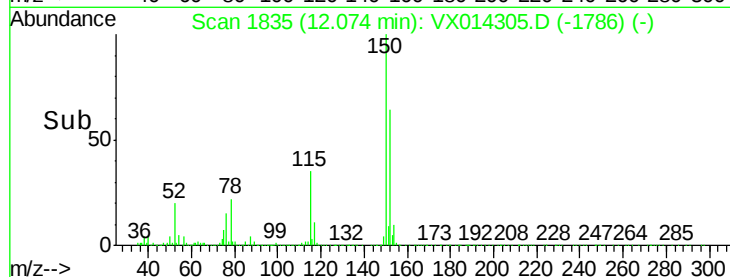
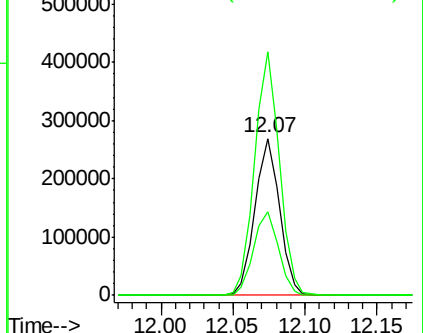
150 155.9 0.0 345.4



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: 22.861 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014305.D

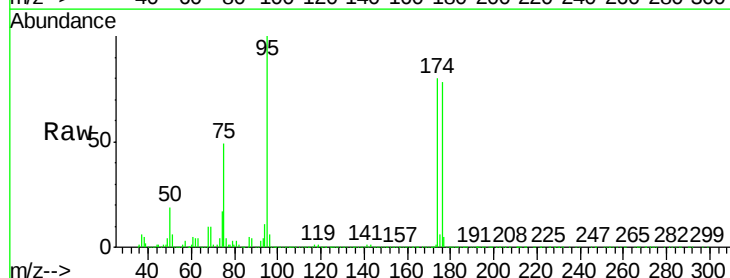
Acq: 27 Dec 2019 13:48

Tgt Ion: 75 Resp: 156878

Ion Ratio Lower Upper

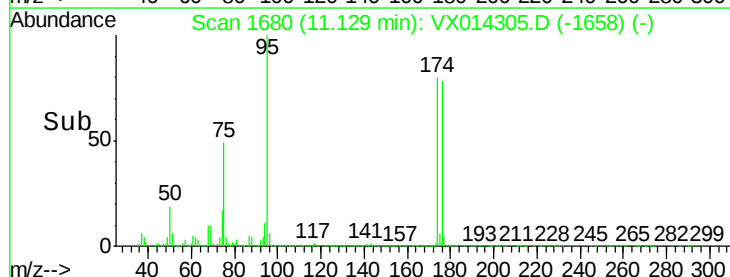
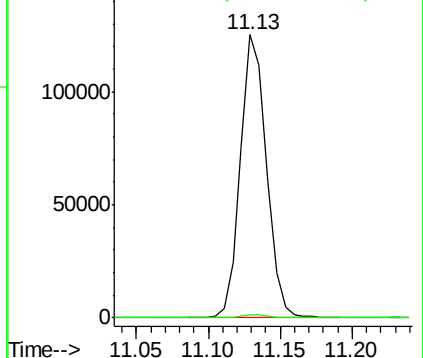
75 100

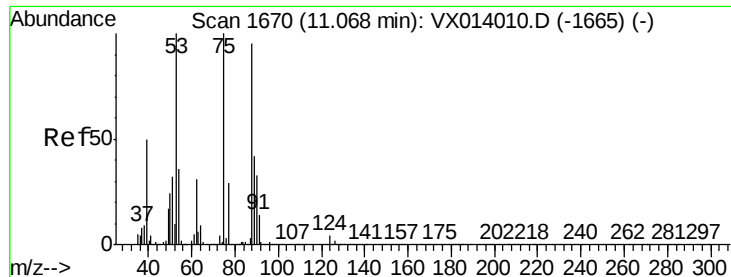
77 1.1 19.3 57.8#



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: 64.525 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-6

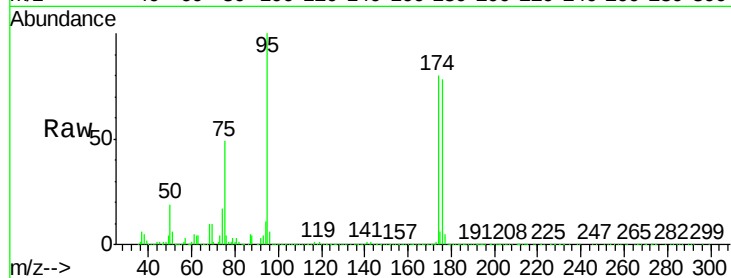
Tgt Ion: 75 Resp: 156878

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

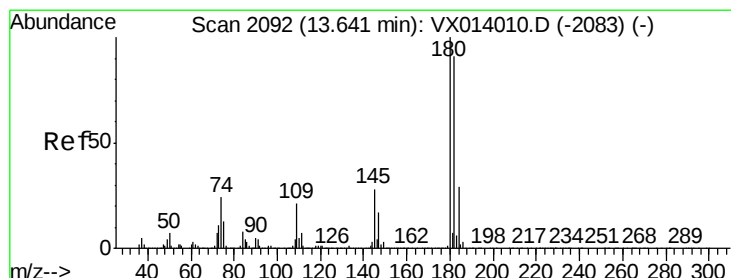
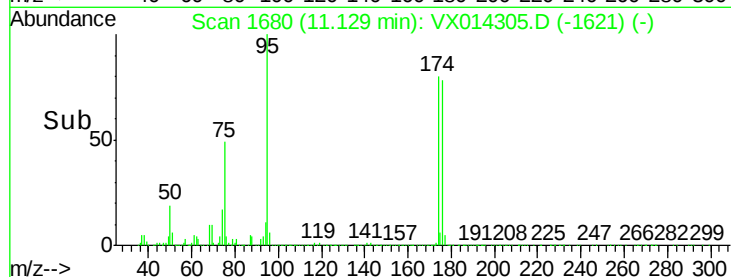
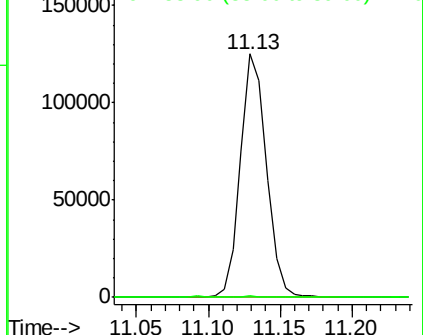
89 0.0 34.6 51.8#



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: 0.276 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014305.D

Acq: 27 Dec 2019 13:48

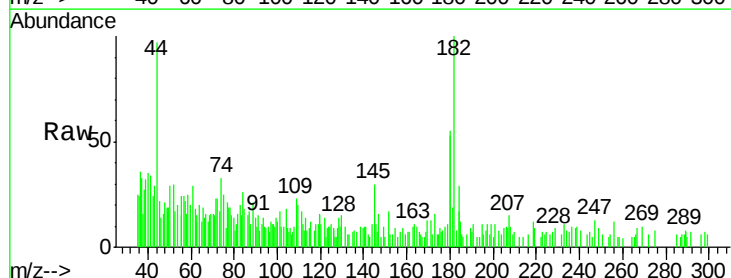
Tgt Ion: 180 Resp: 1935

Ion Ratio Lower Upper

180 100

182 75.5 46.6 139.8

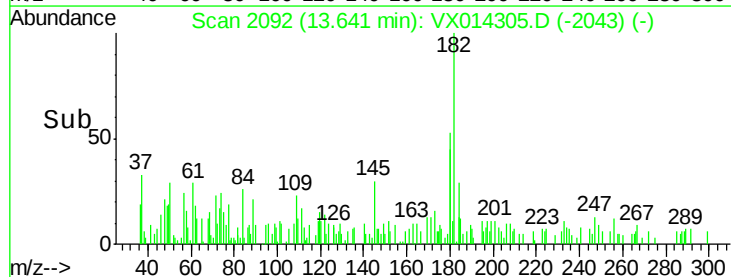
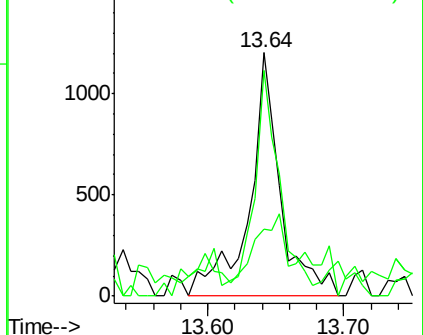
145 26.7 14.2 42.6

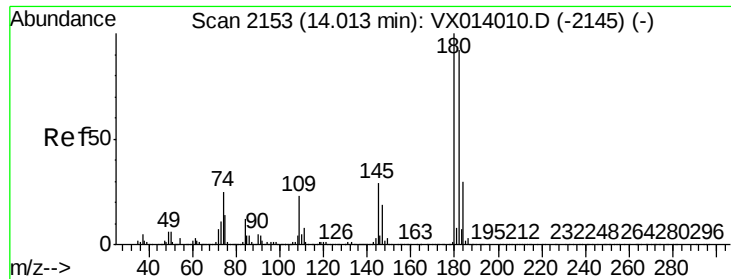


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

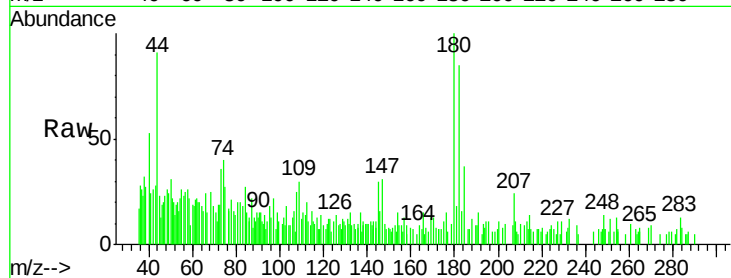




#96
 1,2,3-Trichlorobenzene
 Concen: 0.231 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX014305.D
 Acq: 27 Dec 2019 13:48

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

Tgt Ion	Ratio	Lower	Upper
180	100		
182	80.0	46.8	140.3
145	38.6	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

