

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122019\
 Data File : VX014168.D
 Acq On : 20 Dec 2019 12:56
 Operator : JC/SP
 Sample : K6391-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

Quant Time: Dec 20 22:25:55 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	584810	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	884970	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	793464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	355720	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	317973	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
35) Dibromofluoromethane	5.49	113	266092	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
50) Toluene-d8	8.71	98	1039374	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	11.13	95	356148	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	

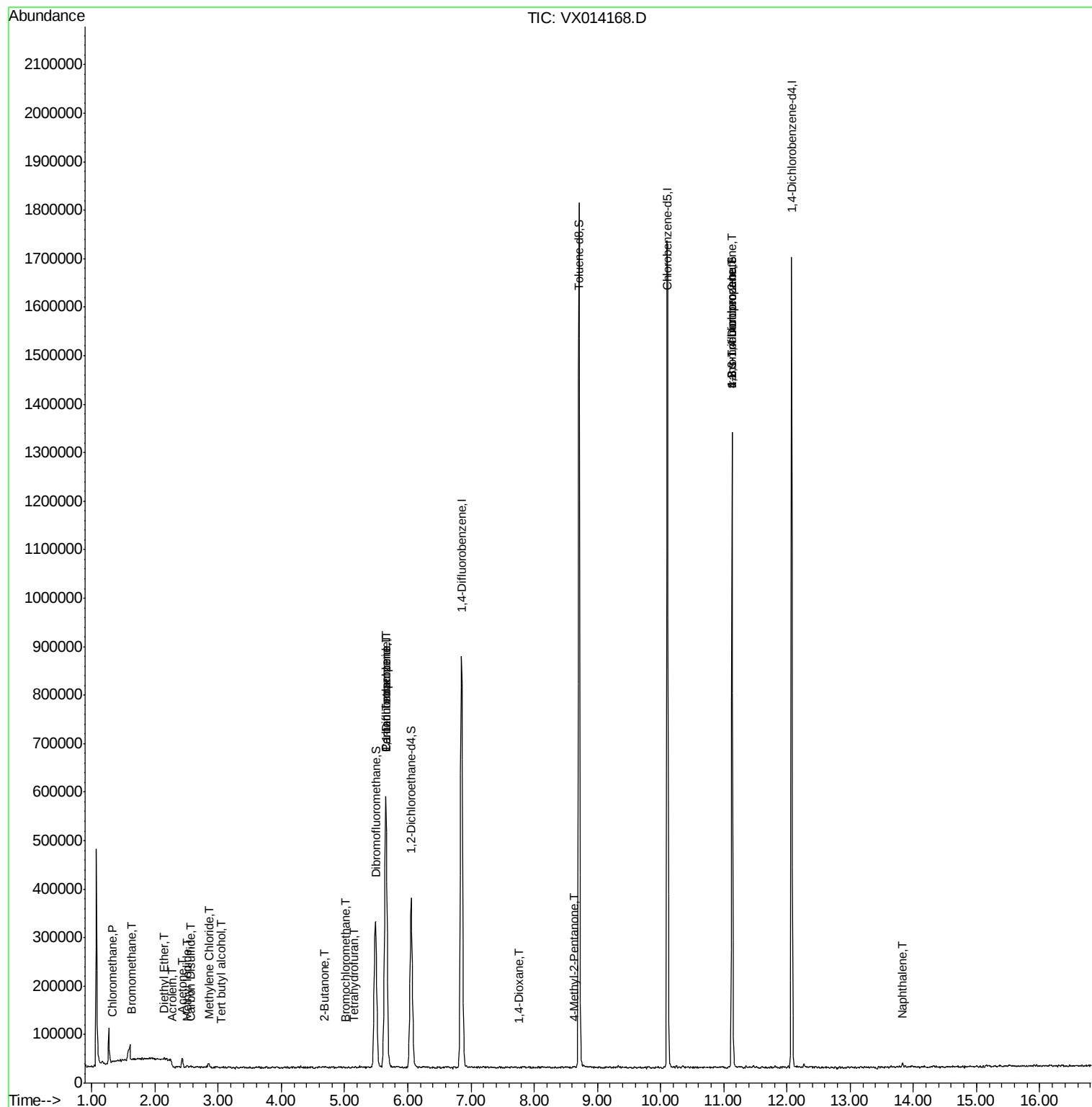
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1735	0.247	ug/l	99
5) Bromomethane	1.64	94	2293	0.436	ug/l #	64
8) Diethyl Ether	2.15	74	1218	0.283	ug/l #	14
10) Methyl Iodide	2.52	142	2570	2.955	ug/l #	83
11) Tert butyl alcohol	3.05	59	608	0.425	ug/l #	1
13) Acrolein	2.28	56	441	0.538	ug/l #	37
16) Acetone	2.43	43	21187	4.924	ug/l	92
17) Carbon Disulfide	2.56	76	2267	0.893	ug/l #	87
20) Methylene Chloride	2.84	84	5263	0.777	ug/l	84
25) 2-Butanone	4.68	43	3680	0.694	ug/l	98
28) Bromochloromethane	5.00	49	909	0.664	ug/l #	43
29) Tetrahydrofuran	5.14	42	2443	0.823	ug/l #	63
36) 1,1-Dichloropropene	5.65	75	38206	4.705	ug/l #	41
38) Carbon Tetrachloride	5.65	117	51345	6.941	ug/l #	16
49) 1,4-Dioxane	7.76	88	252	1.704	ug/l #	17
51) 4-Methyl-2-Pentanone	8.64	43	1923	0.206	ug/l #	68
76) 1,2,3-Trichloropropane	11.13	75	172655	22.357	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	172655	63.103	ug/l #	11
95) Naphthalene	13.83	128	5415	0.233	ug/l #	74

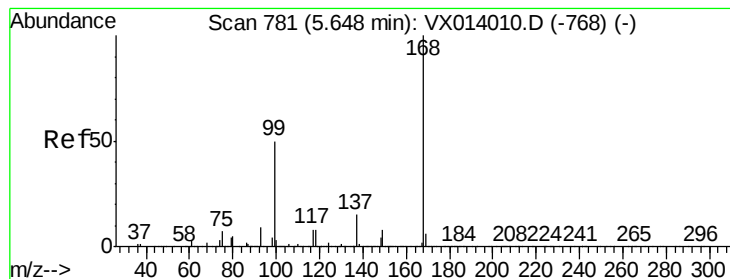
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 782

Delta R.T. 0.01 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

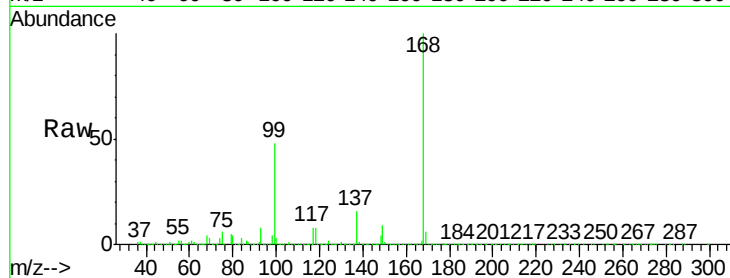
STORAGE-BLANK-WATER-REF-5

Tgt Ion:168 Resp: 584810

Ion Ratio Lower Upper

168 100

99 48.2 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

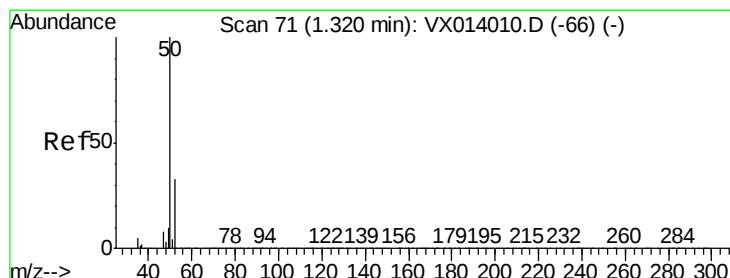
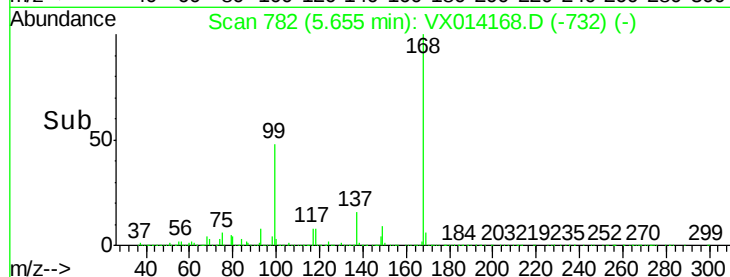
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.247 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014168.D

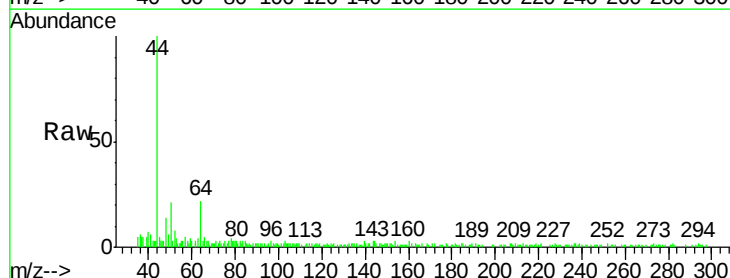
Acq: 20 Dec 2019 12:56

Tgt Ion: 50 Resp: 1735

Ion Ratio Lower Upper

50 100

52 32.3 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

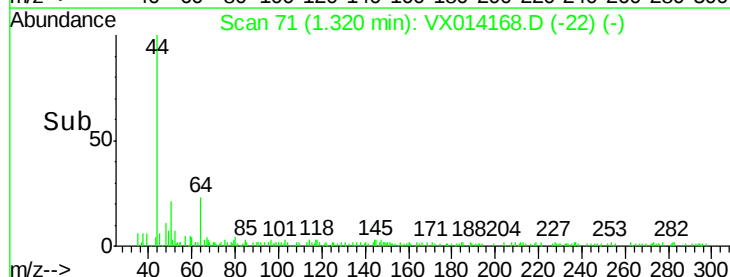
1500

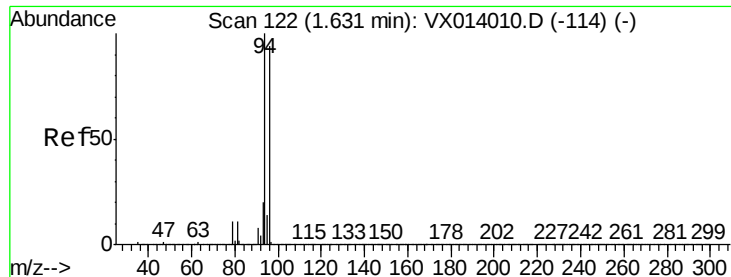
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.436 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

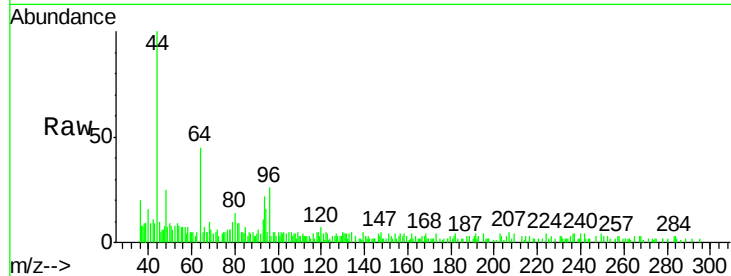
STORAGE-BLANK-WATER-REF-5

Tgt Ion: 94 Resp: 2293

Ion Ratio Lower Upper

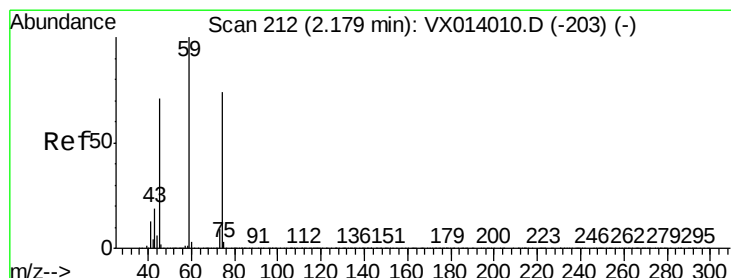
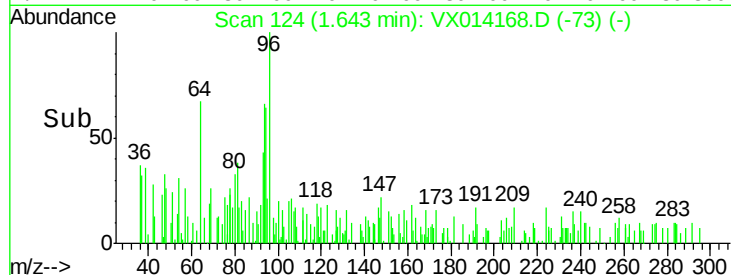
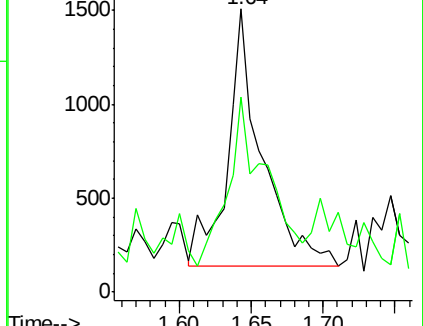
94 100

96 59.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.283 ug/l

RT: 2.15 min Scan# 207

Delta R.T. -0.03 min

Lab File: VX014168.D

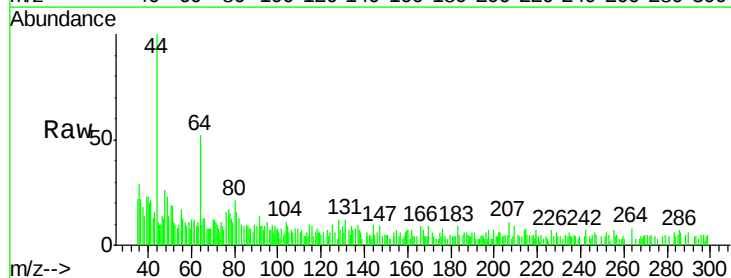
Acq: 20 Dec 2019 12:56

Tgt Ion: 74 Resp: 1218

Ion Ratio Lower Upper

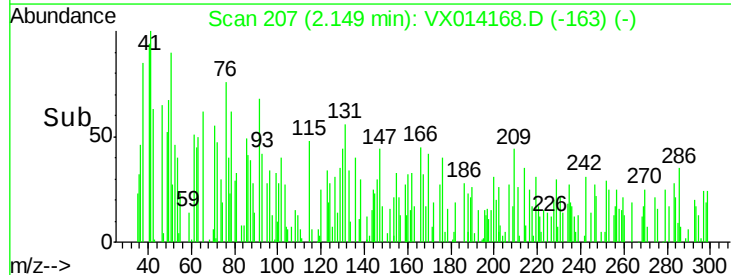
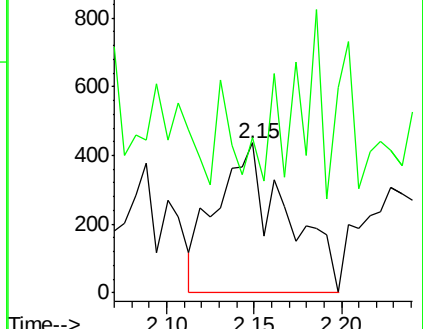
74 100

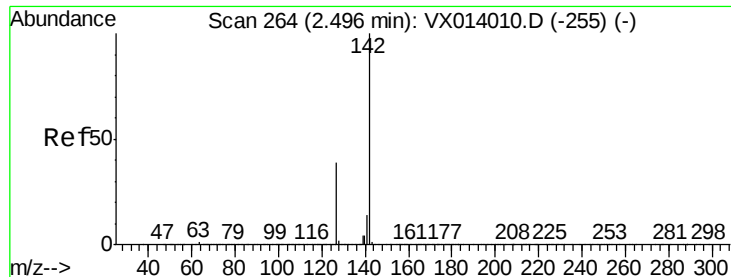
45 11.7 48.1 144.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 2.955 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

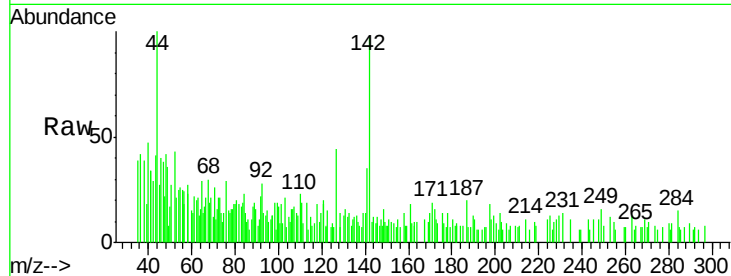
Tgt Ion: 142 Resp: 2570

Ion Ratio Lower Upper

142 100

127 32.6 31.6 47.4

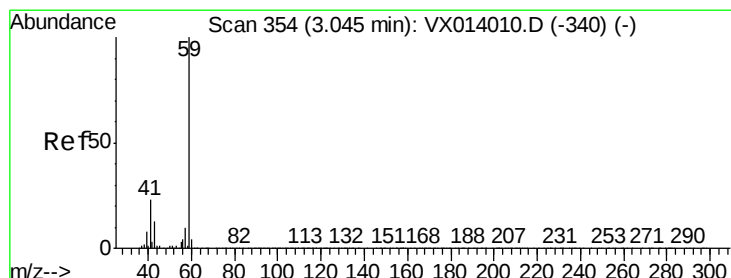
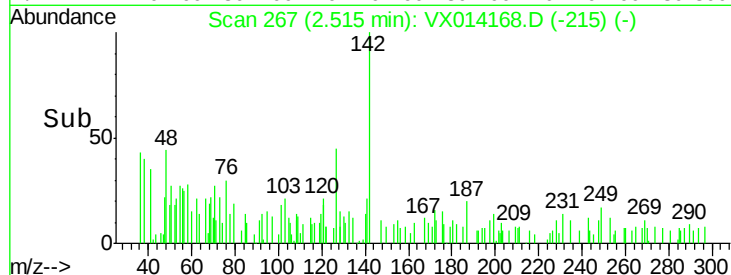
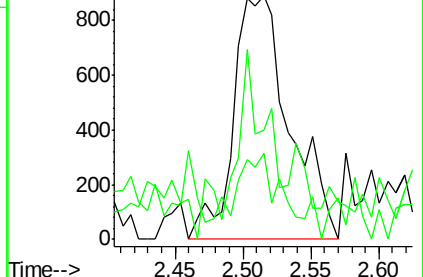
141 28.1 11.6 17.4#



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: 0.425 ug/l

RT: 3.05 min Scan# 354

Delta R.T. 0.00 min

Lab File: VX014168.D

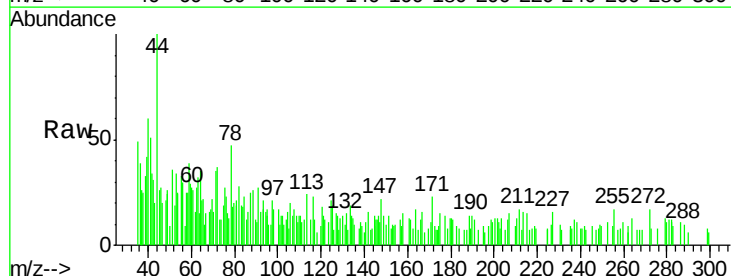
Acq: 20 Dec 2019 12:56

Tgt Ion: 59 Resp: 608

Ion Ratio Lower Upper

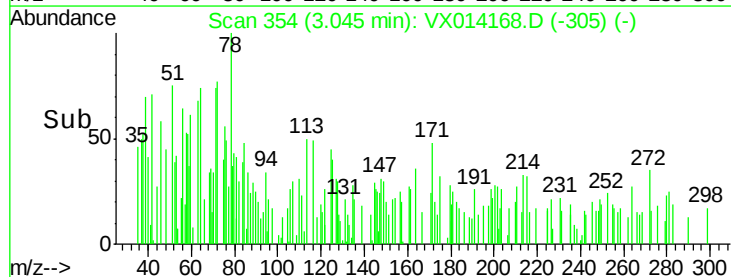
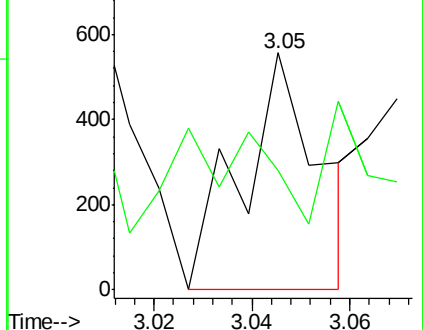
59 100

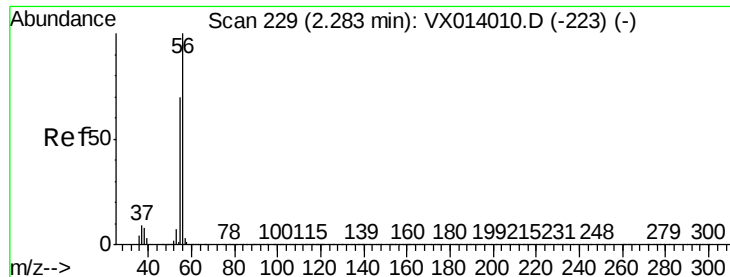
57 52.6 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.538 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

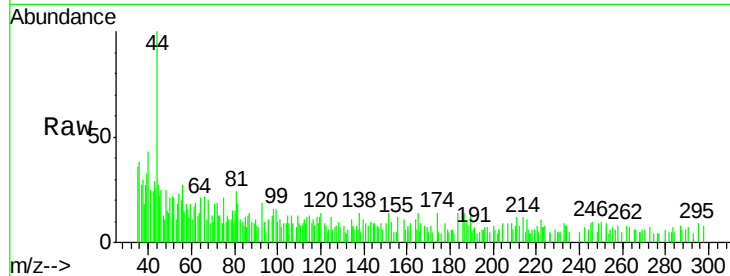
STORAGE-BLANK-WATER-REF-5

Tgt Ion: 56 Resp: 441

Ion Ratio Lower Upper

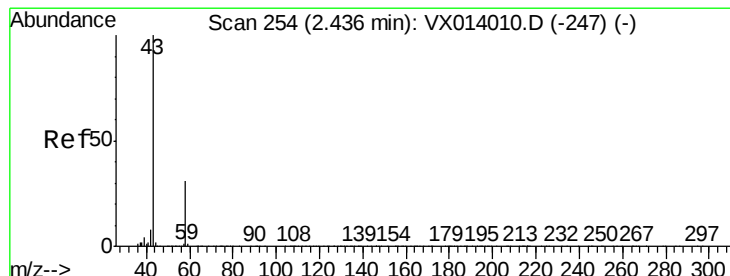
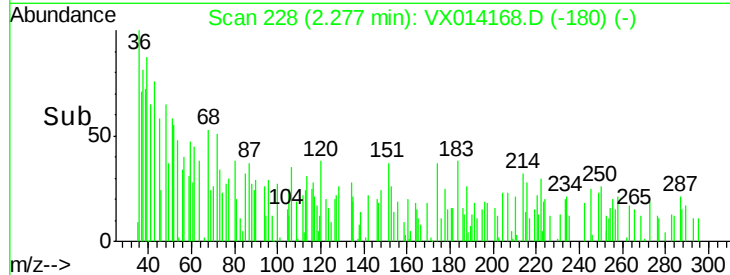
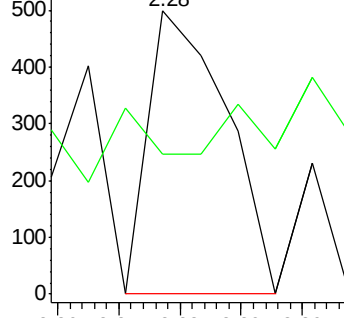
56 100

55 18.8 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 4.924 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014168.D

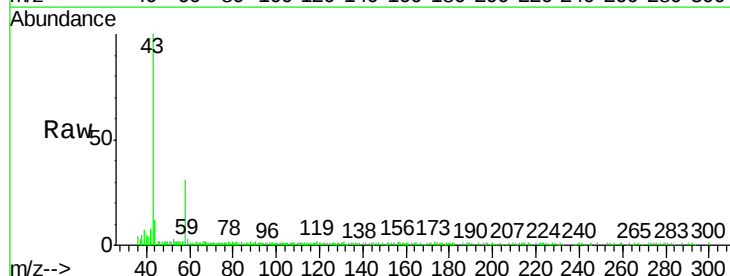
Acq: 20 Dec 2019 12:56

Tgt Ion: 43 Resp: 21187

Ion Ratio Lower Upper

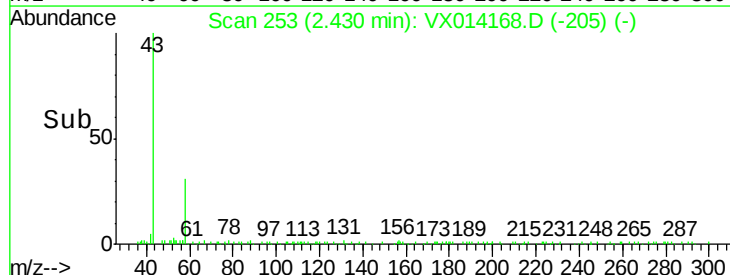
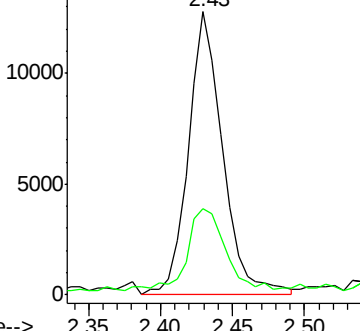
43 100

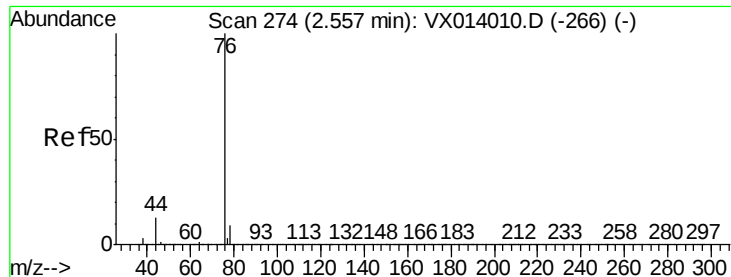
58 26.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.893 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

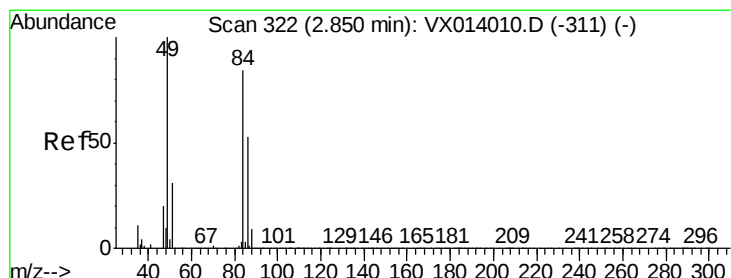
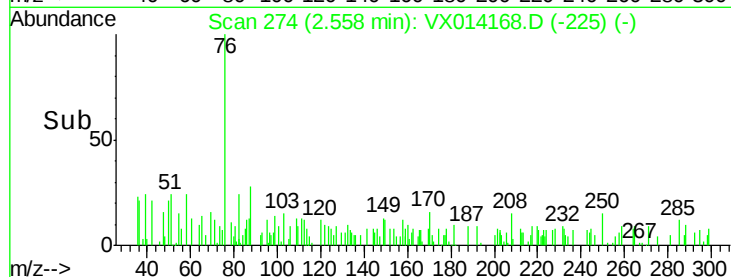
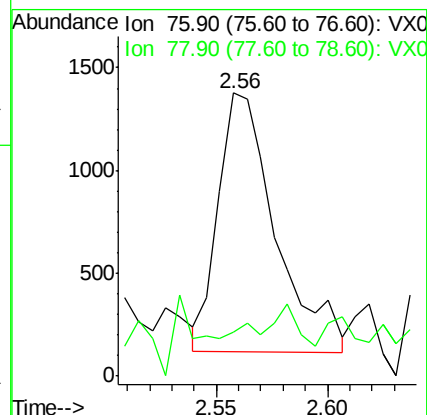
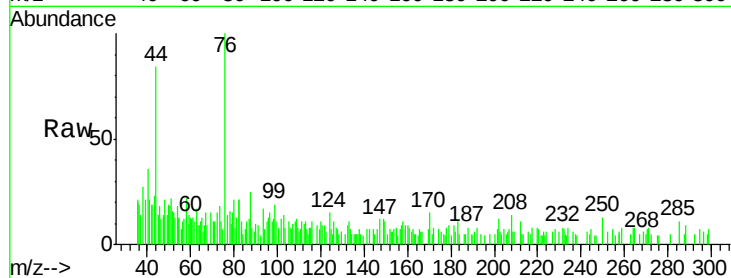
STORAGE-BLANK-WATER-REF-5

Tgt Ion: 76 Resp: 2267

Ion Ratio Lower Upper

76 100

78 13.7 7.2 10.8#



#20

Methylene Chloride

Concen: 0.777 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Tgt Ion: 84 Resp: 5263

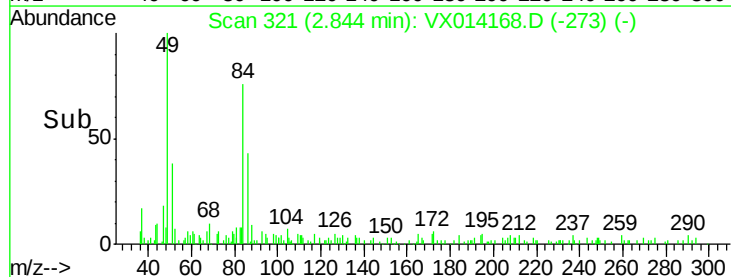
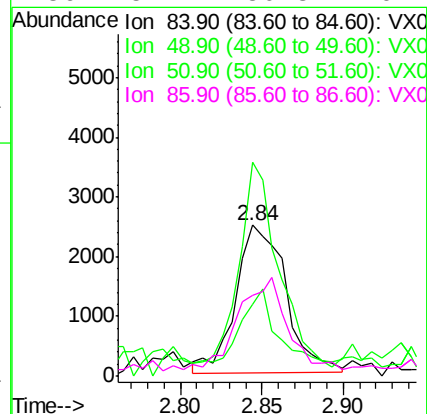
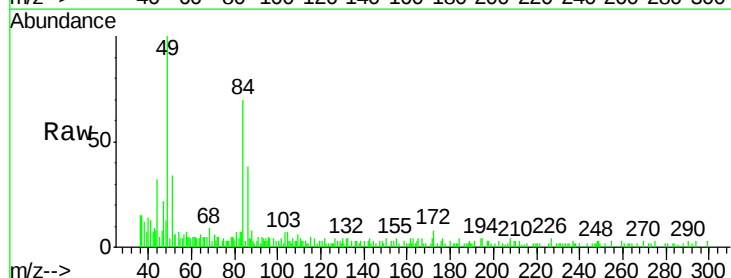
Ion Ratio Lower Upper

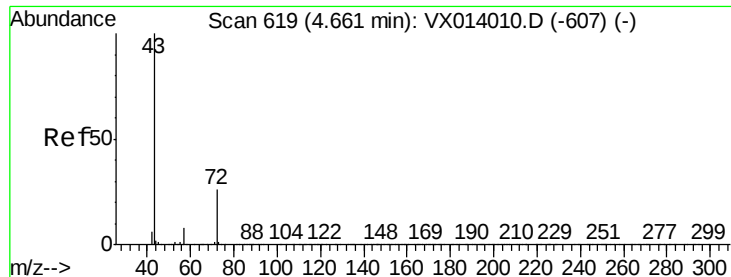
84 100

49 140.7 95.8 143.6

51 40.9 29.8 44.8

86 52.1 50.8 76.2





#25

2-Butanone

Concen: 0.694 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

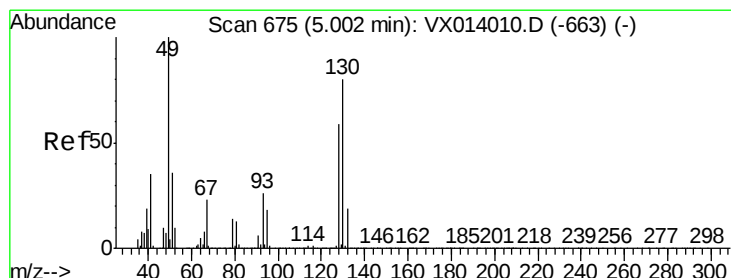
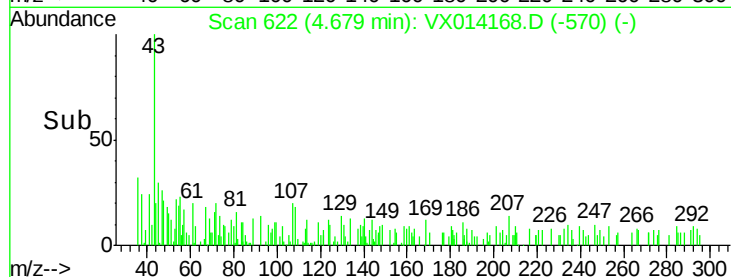
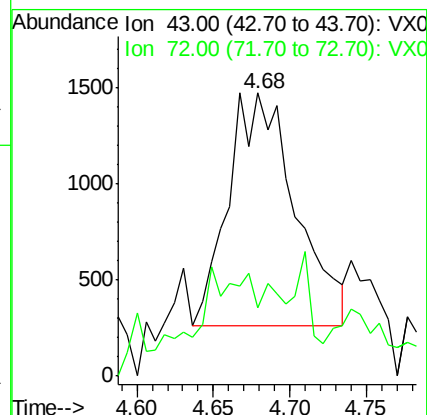
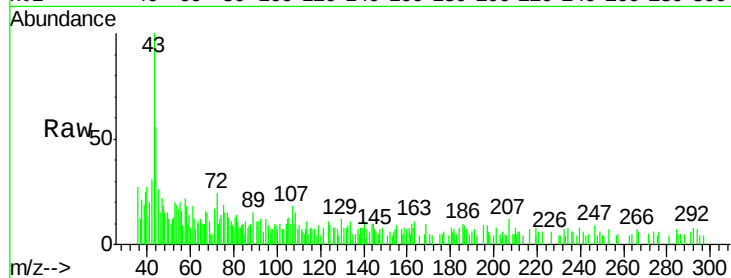
STORAGE-BLANK-WATER-REF-5

Tgt Ion: 43 Resp: 3680

Ion Ratio Lower Upper

43 100

72 25.0 21.0 31.4



#28

Bromochloromethane

Concen: 0.664 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

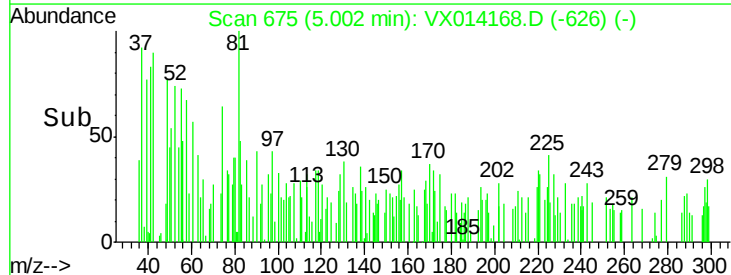
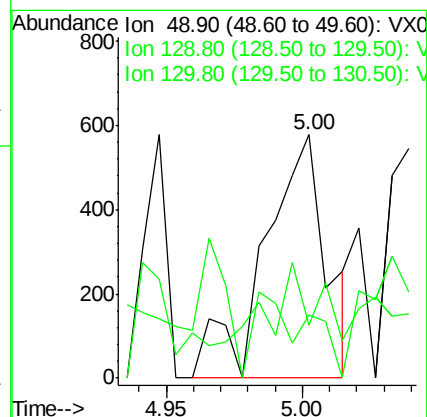
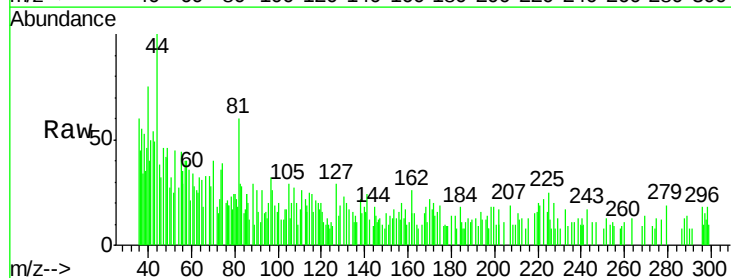
Tgt Ion: 49 Resp: 909

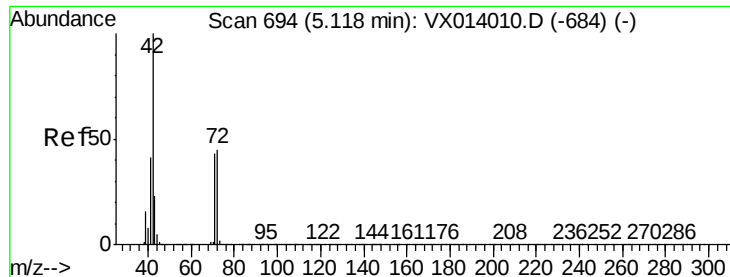
Ion Ratio Lower Upper

49 100

129 24.5 0.0 5.0#

130 30.1 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.823 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.02 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

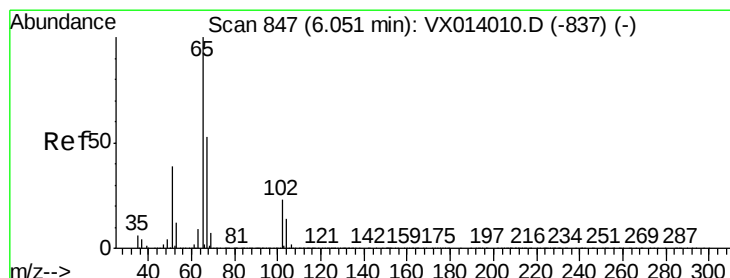
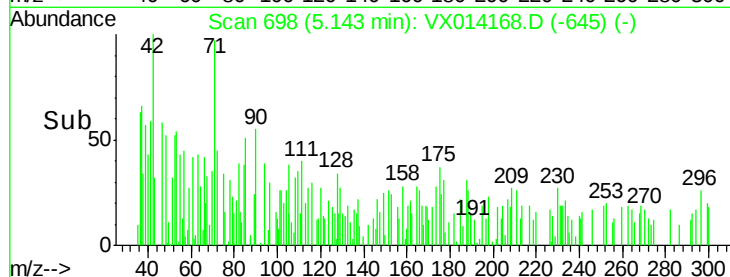
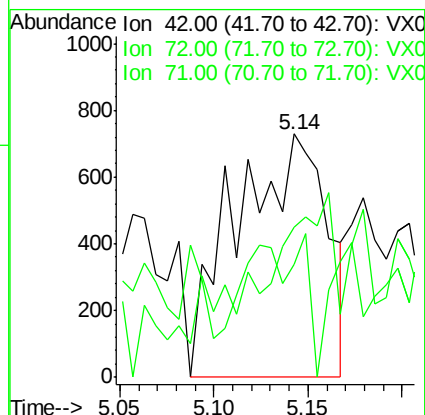
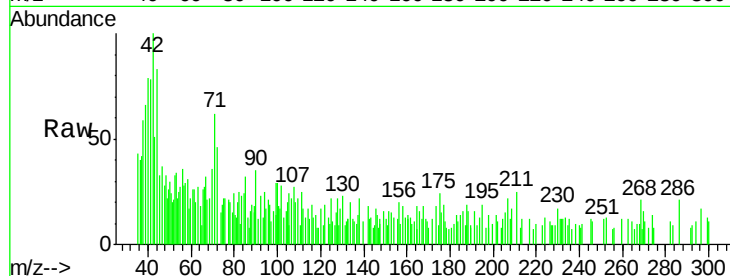
Tgt Ion: 42 Resp: 2443

Ion Ratio Lower Upper

42 100

72 38.5 35.8 53.8

71 0.0 33.6 50.4#



#33

1,2-Dichloroethane-d4

Concen: 47.974 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014168.D

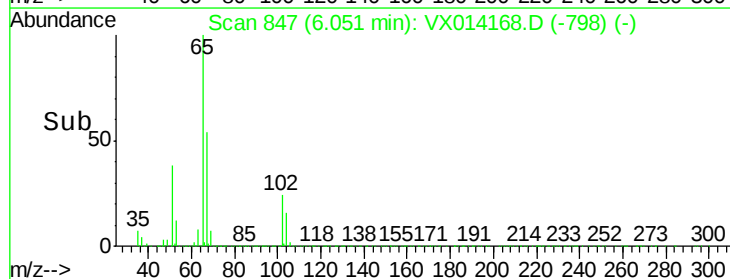
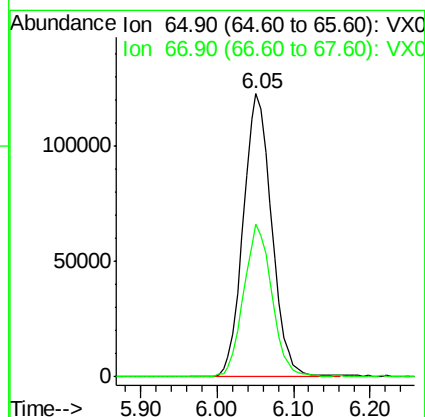
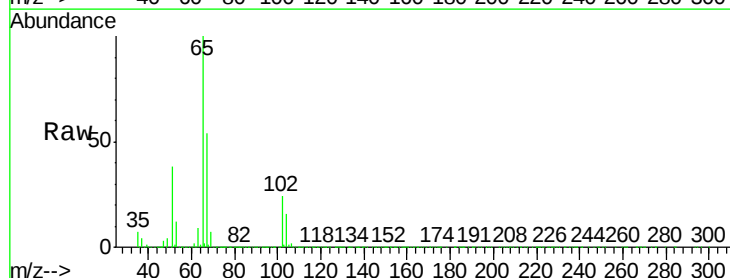
Acq: 20 Dec 2019 12:56

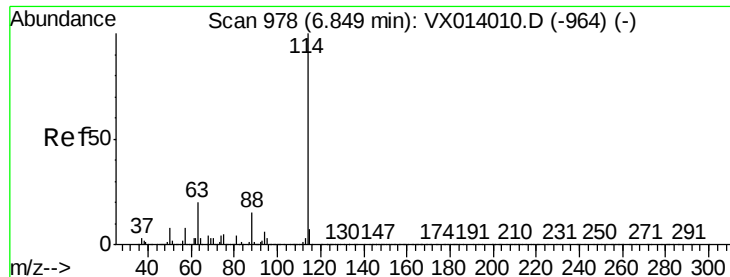
Tgt Ion: 65 Resp: 317973

Ion Ratio Lower Upper

65 100

67 52.9 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: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

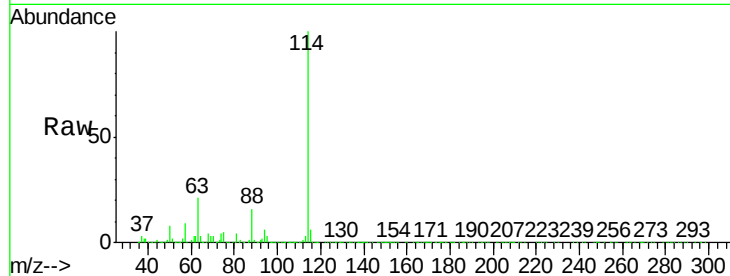
Tgt Ion:114 Resp: 884970

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 16.1 0.0 30.4



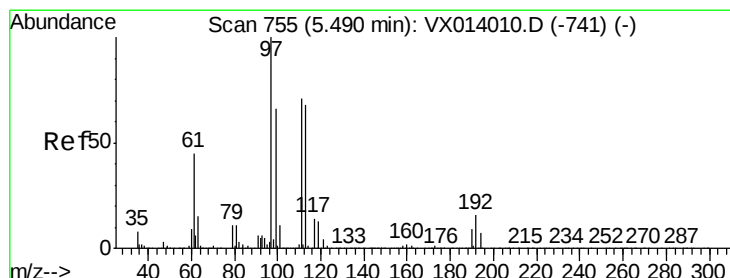
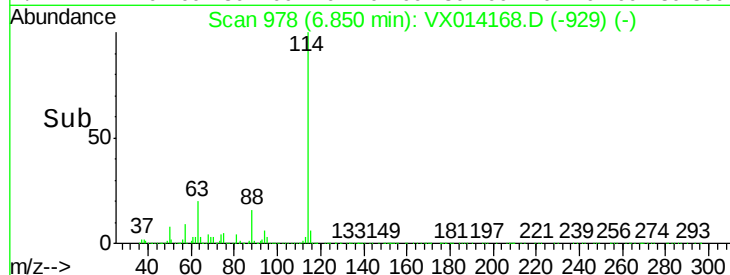
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

Time-->



#35

Dibromofluoromethane

Concen: 49.463 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

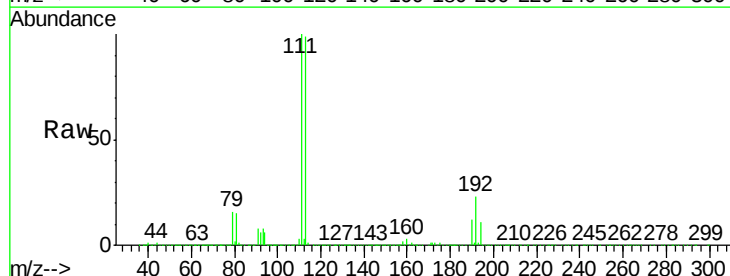
Tgt Ion:113 Resp: 266092

Ion Ratio Lower Upper

113 100

111 101.3 82.0 123.0

192 23.6 19.3 28.9



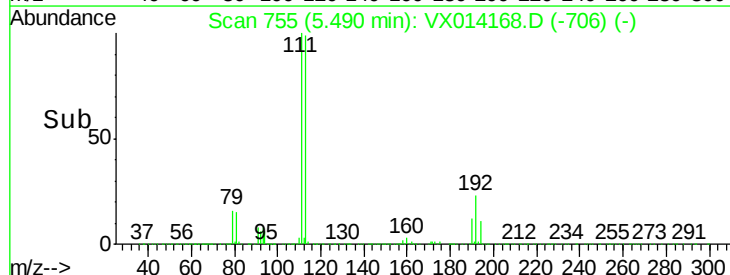
Abundance Ion 112.80 (112.50 to 113.50): V

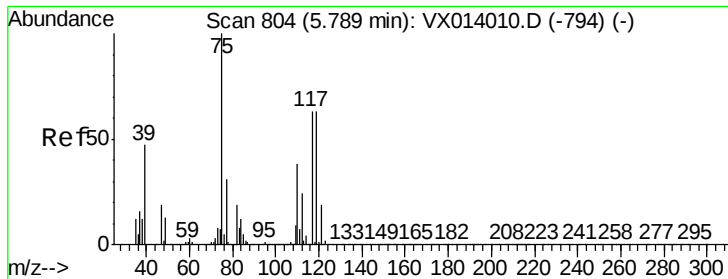
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

5.49

Time-->

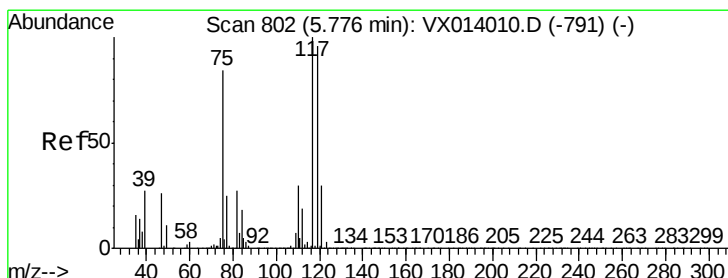
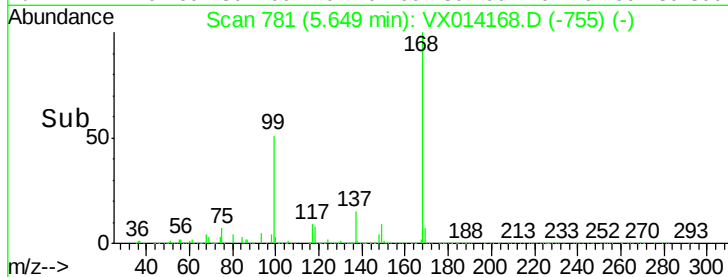
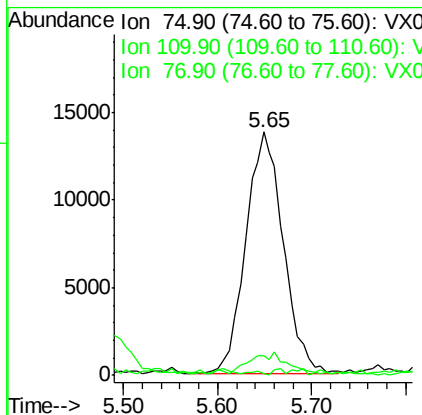
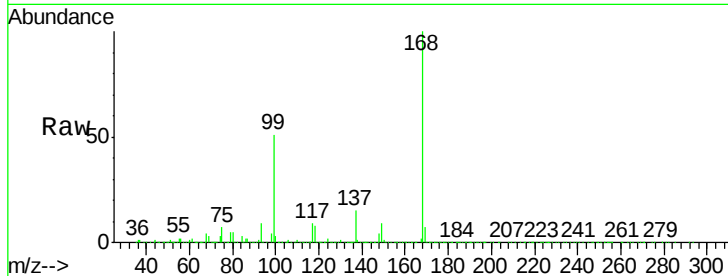




#36
 1,1-Dichloropropene
 Concen: 4.705 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014168.D
 Acq: 20 Dec 2019 12:56

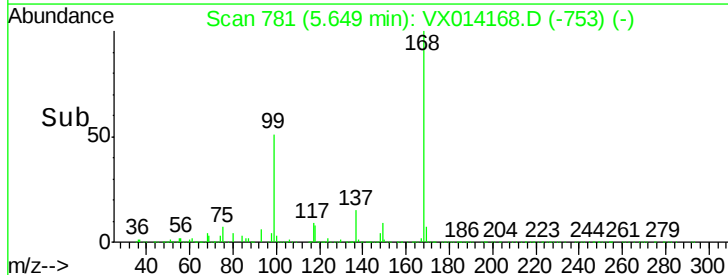
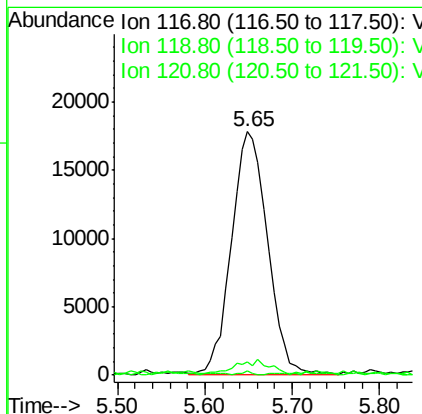
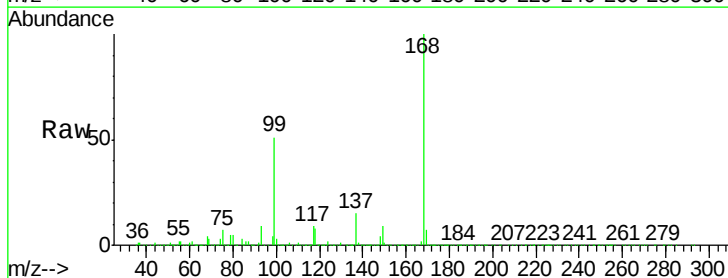
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

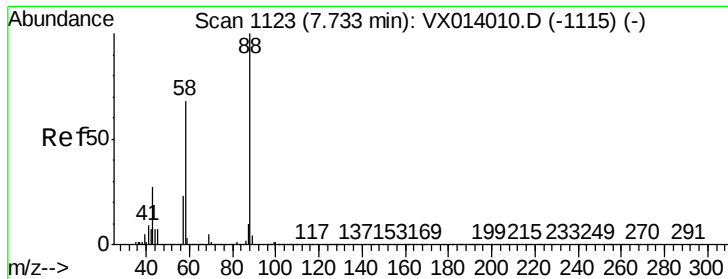
Tgt Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.3	54.9#
77	0.7	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.941 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014168.D
 Acq: 20 Dec 2019 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.2	114.4#
121	1.4	23.6	35.4#





#49

1,4-Dioxane

Concen: 1.704 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.03 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-5

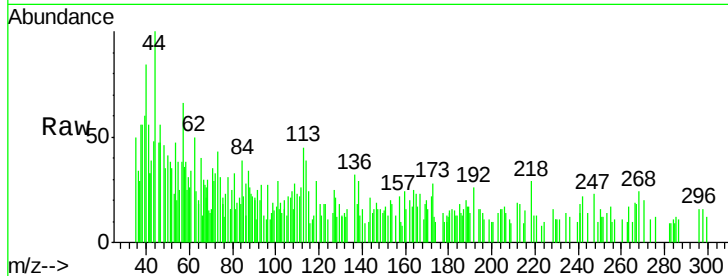
Tgt Ion: 88 Resp: 252

Ion Ratio Lower Upper

88 100

43 139.3 26.5 39.7#

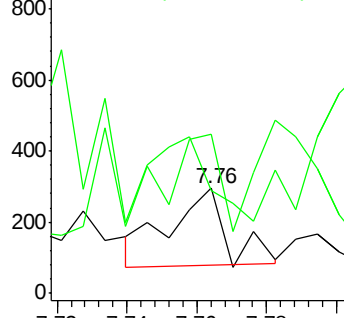
58 98.8 56.8 85.2#



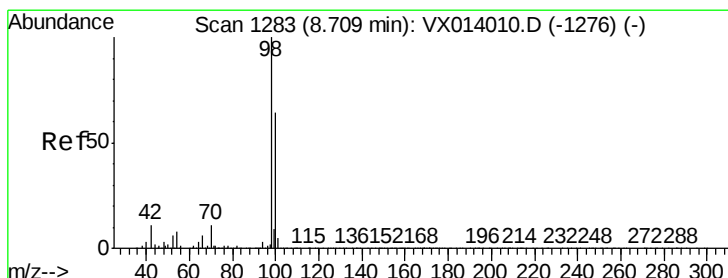
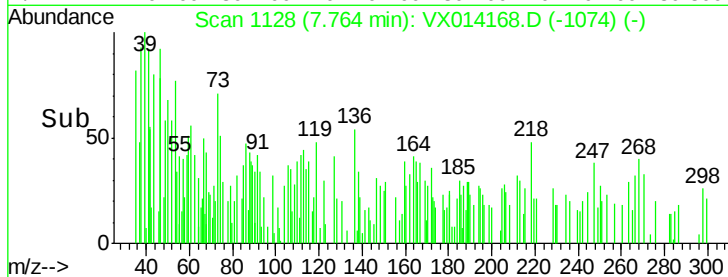
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 49.626 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014168.D

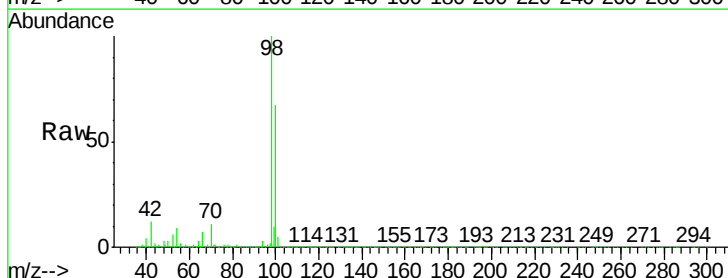
Acq: 20 Dec 2019 12:56

Tgt Ion: 98 Resp: 1039374

Ion Ratio Lower Upper

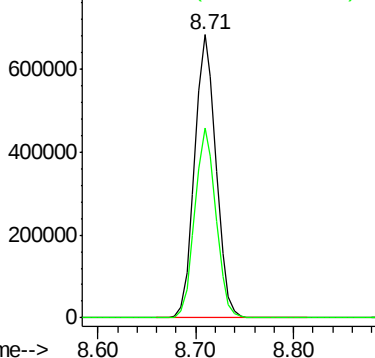
98 100

100 66.2 52.9 79.3

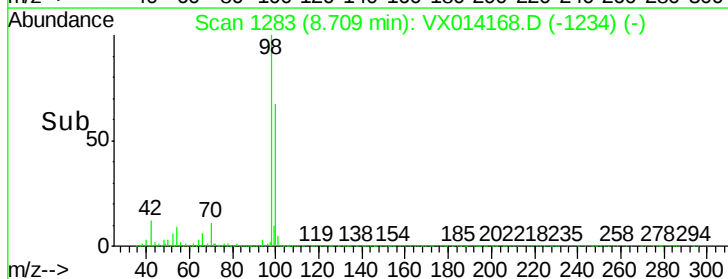


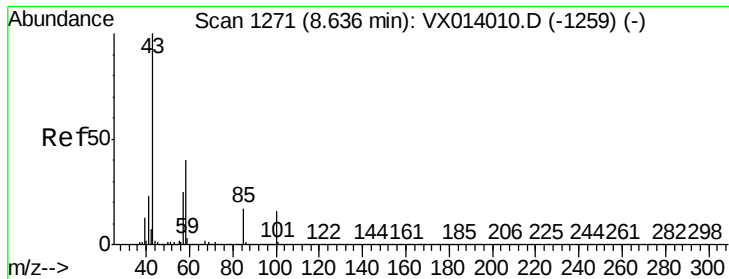
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->

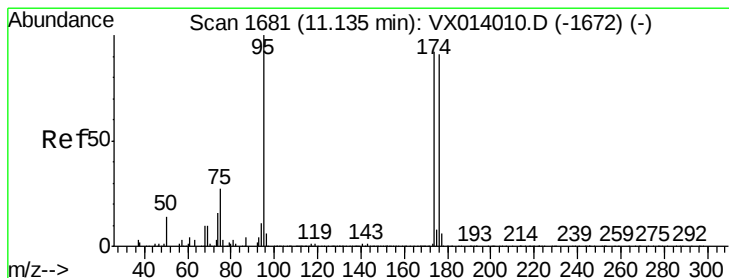
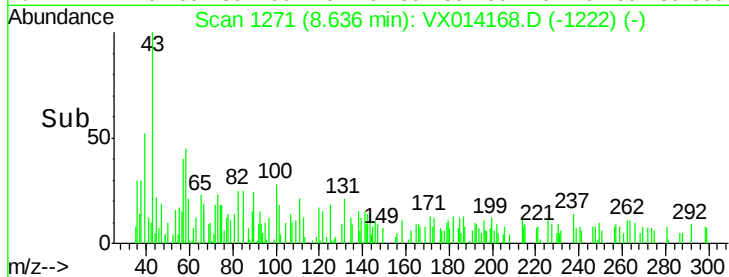
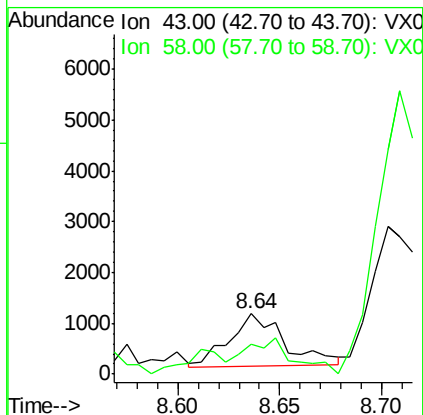
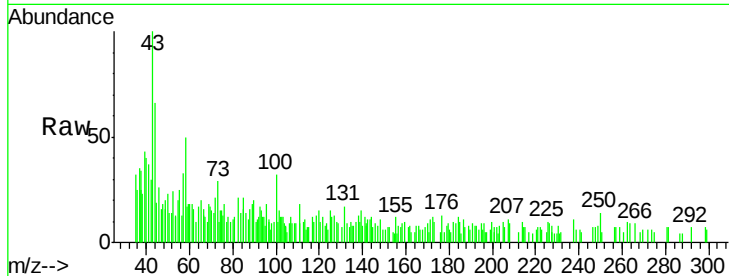




#51
 4-Methyl-2-Pentanone
 Concen: 0.206 ug/l
 RT: 8.64 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VX014168.D
 Acq: 20 Dec 2019 12:56

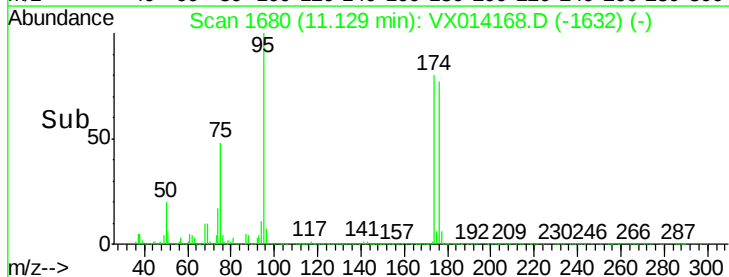
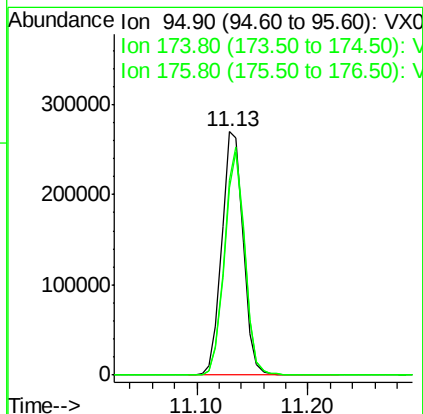
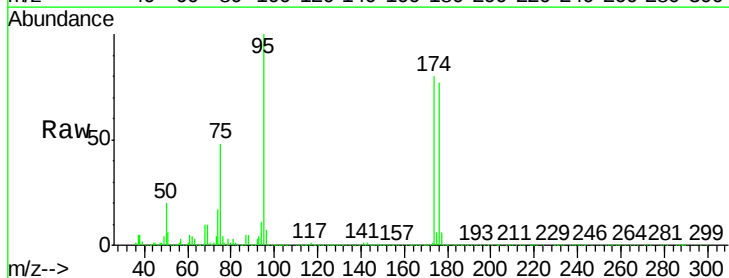
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-5

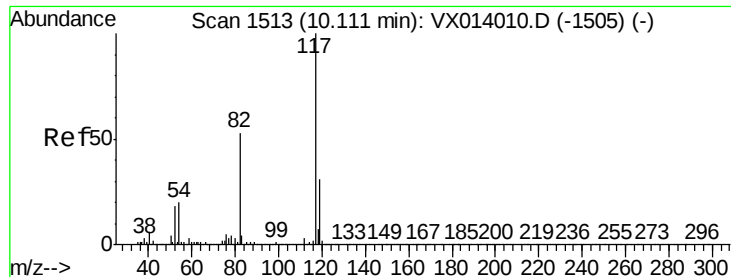
Tgt Ion: 43 Resp: 1923
 Ion Ratio Lower Upper
 43 100
 58 60.1 32.2 48.2#



#62
 4-Bromofluorobenzene
 Concen: 46.518 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.01 min
 Lab File: VX014168.D
 Acq: 20 Dec 2019 12:56

Tgt Ion: 95 Resp: 356148
 Ion Ratio Lower Upper
 95 100
 174 89.4 0.0 175.8
 176 87.0 0.0 173.0

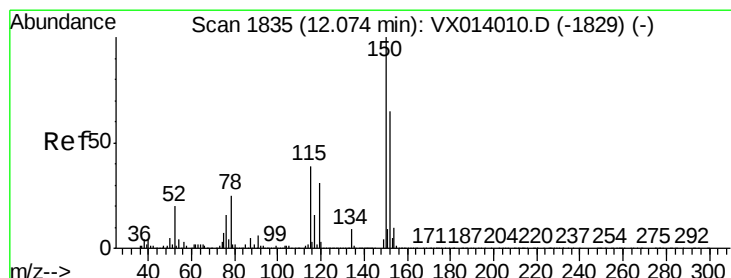
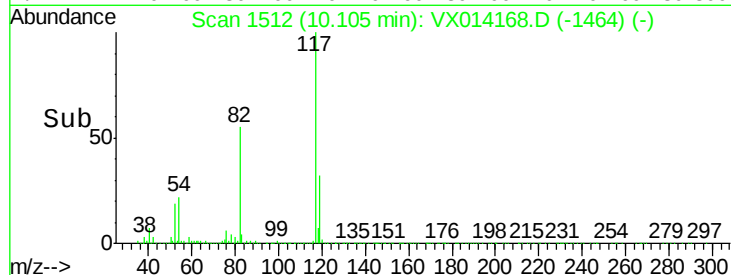
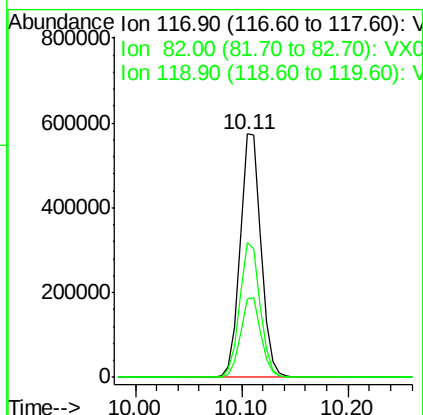
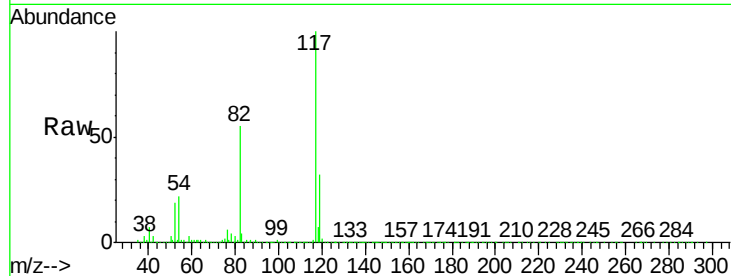




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014168.D
Acq: 20 Dec 2019 12:56

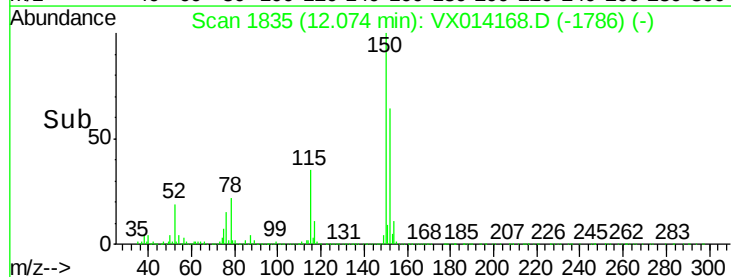
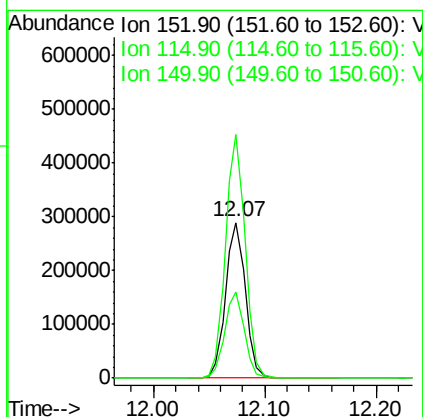
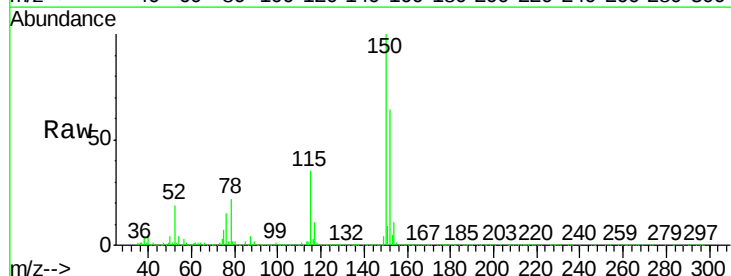
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

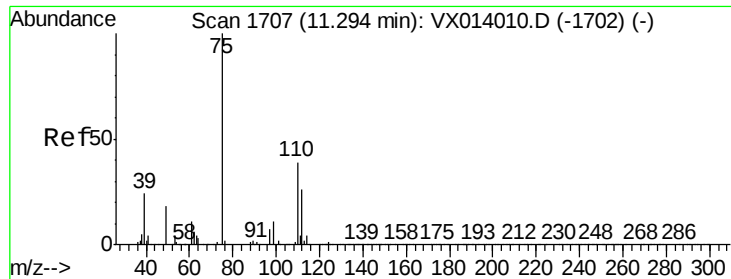
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.4	42.2	63.4
119	32.0	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014168.D
Acq: 20 Dec 2019 12:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.6	38.3	114.9
150	154.8	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 22.357 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

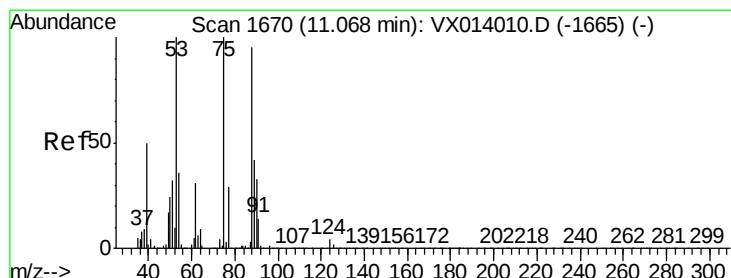
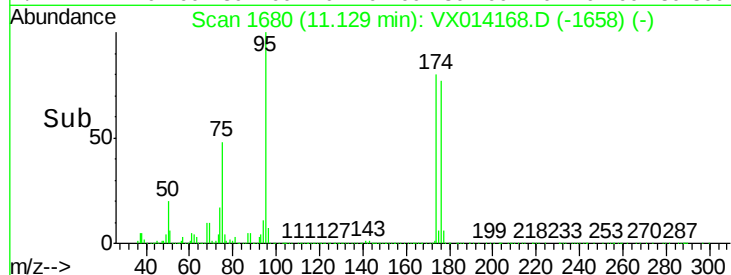
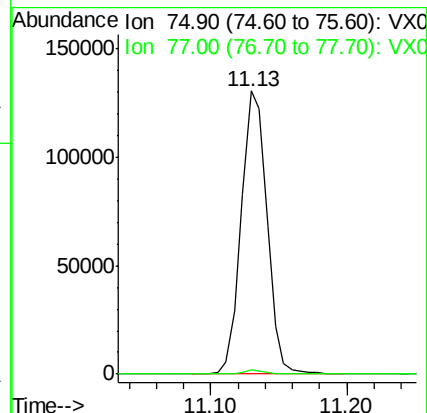
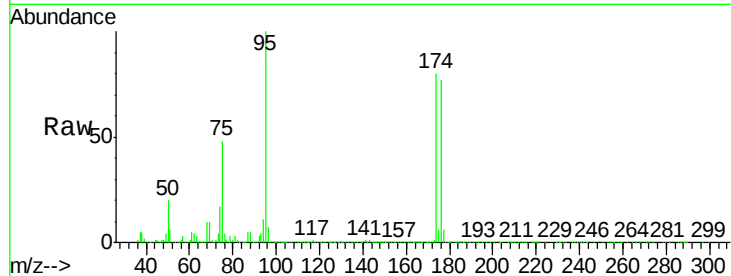
STORAGE-BLANK-WATER-REF-5

Tgt Ion: 75 Resp: 172655

Ion Ratio Lower Upper

75 100

77 1.7 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.103 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014168.D

Acq: 20 Dec 2019 12:56

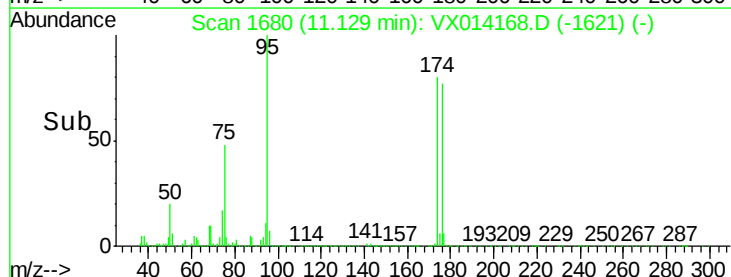
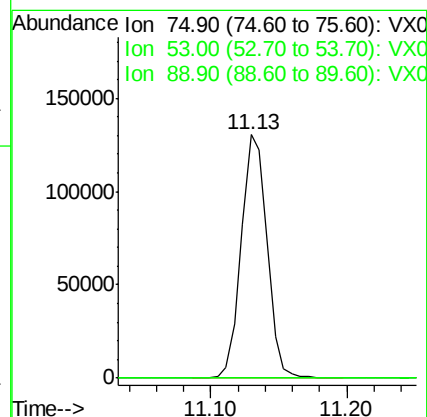
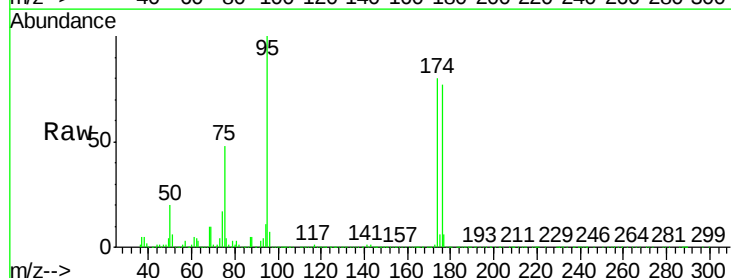
Tgt Ion: 75 Resp: 172655

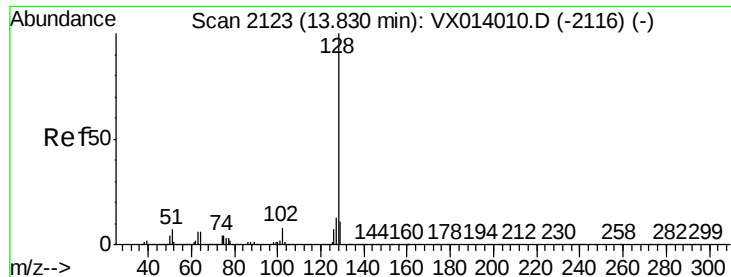
Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 34.6 51.8#

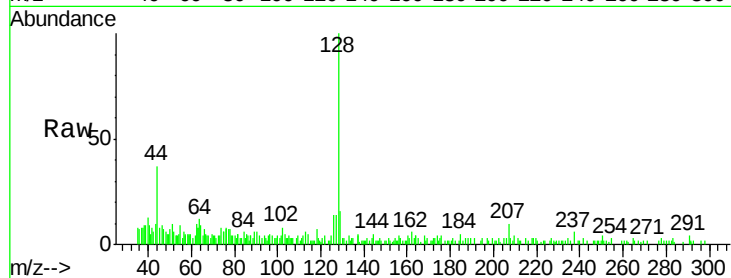




#95
Naphthalene
Concen: 0.233 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014168.D
Acq: 20 Dec 2019 12:56

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-5

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.9	10.2	15.4#
129	22.8	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

