

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122019\
 Data File : VX014169.D
 Acq On : 20 Dec 2019 13:20
 Operator : JC/SP
 Sample : K6391-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

Quant Time: Dec 20 22:26:15 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	579441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	878131	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	776077	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	344485	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	311330	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
35) Dibromofluoromethane	5.49	113	258243	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
50) Toluene-d8	8.71	98	1030654	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
62) 4-Bromofluorobenzene	11.13	95	351545	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	

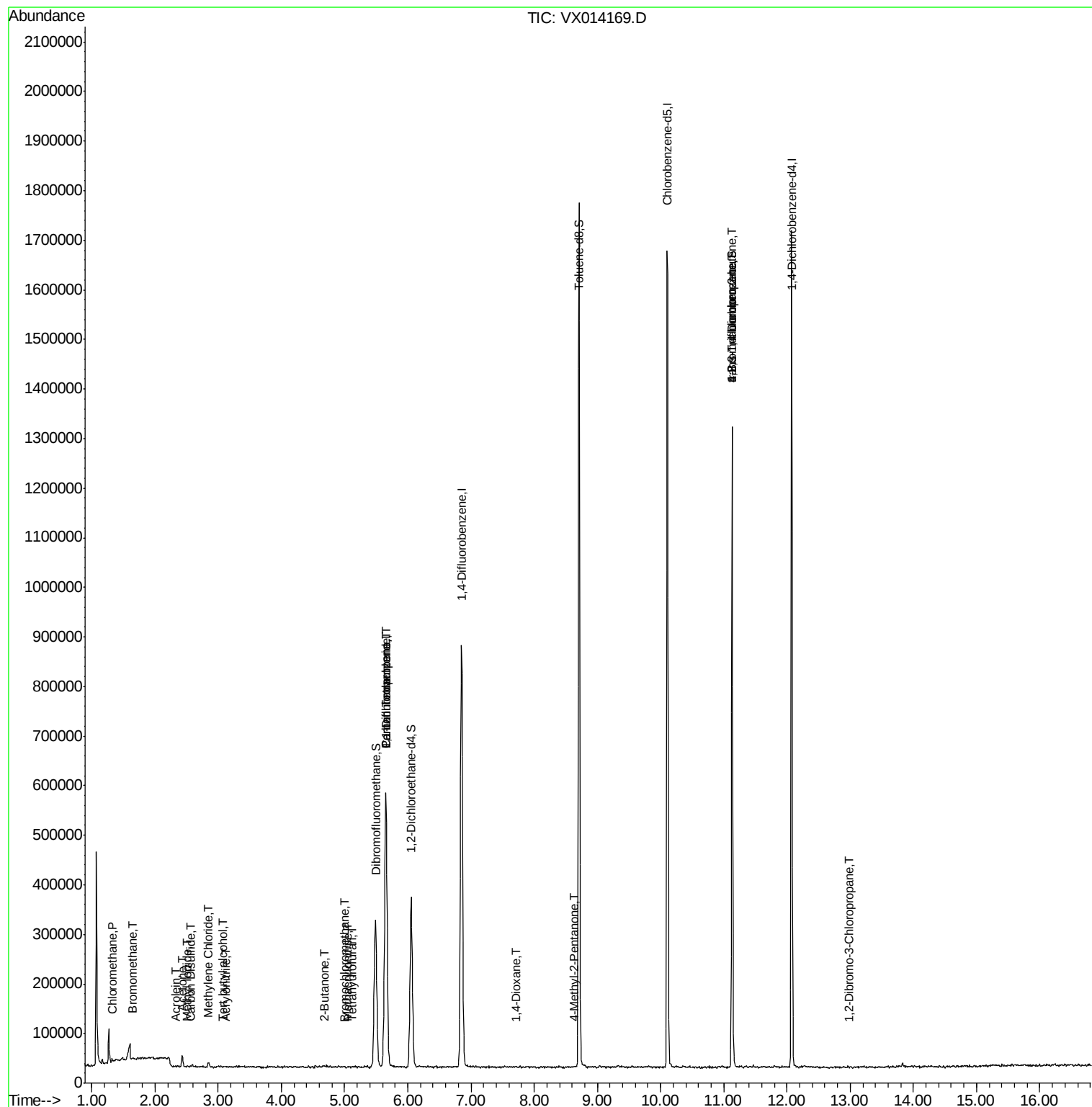
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	3592	0.516	ug/l #	86
5) Bromomethane	1.64	94	1321	0.254	ug/l #	66
10) Methyl Iodide	2.51	142	1082	2.763	ug/l #	69
11) Tert butyl alcohol	3.08	59	453	0.319	ug/l #	72
13) Acrolein	2.32	56	867	1.067	ug/l #	14
15) Acrylonitrile	3.13	53	699	0.211	ug/l #	1
16) Acetone	2.43	43	25729	6.035	ug/l	95
17) Carbon Disulfide	2.56	76	2144	0.887	ug/l #	89
20) Methylene Chloride	2.85	84	5789	0.862	ug/l #	92
25) 2-Butanone	4.67	43	5300	1.008	ug/l	97
28) Bromochloromethane	5.00	49	261	0.515	ug/l #	1
29) Tetrahydrofuran	5.12	42	1141	0.388	ug/l #	80
36) 1,1-Dichloropropene	5.65	75	38486	4.777	ug/l #	50
38) Carbon Tetrachloride	5.65	117	50484	6.878	ug/l #	17
41) Methacrylonitrile	5.05	41	1425	0.289	ug/l #	37
49) 1,4-Dioxane	7.72	88	455	3.101	ug/l #	25
51) 4-Methyl-2-Pentanone	8.64	43	2713	0.293	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	169798	22.704	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	169798	64.083	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	662	0.356	ug/l #	25

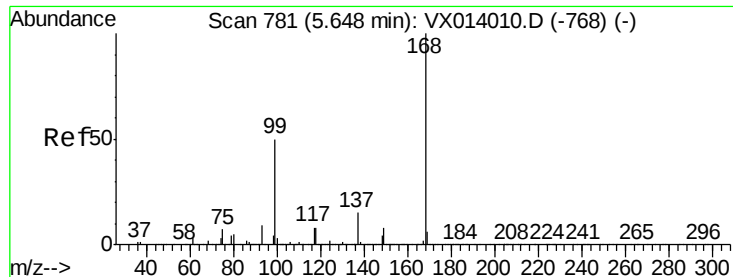
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

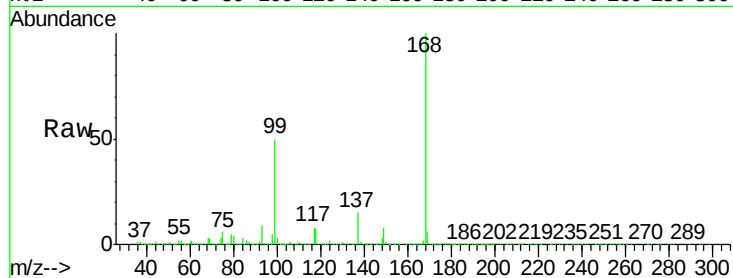
STORAGE-BLANK-WATER-REF-4

Tgt Ion:168 Resp: 579441

Ion Ratio Lower Upper

168 100

99 49.3 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

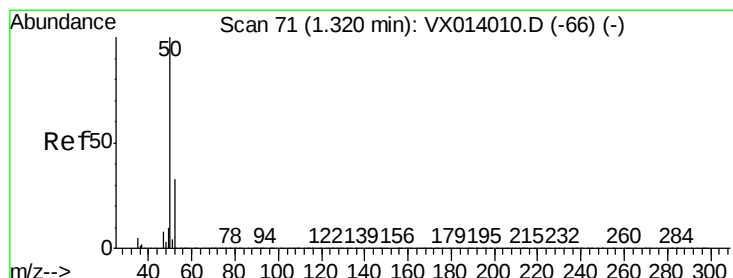
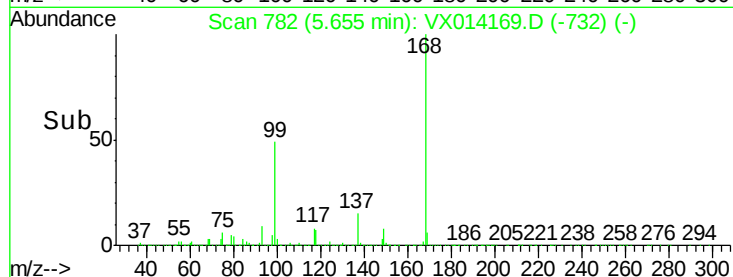
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.516 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014169.D

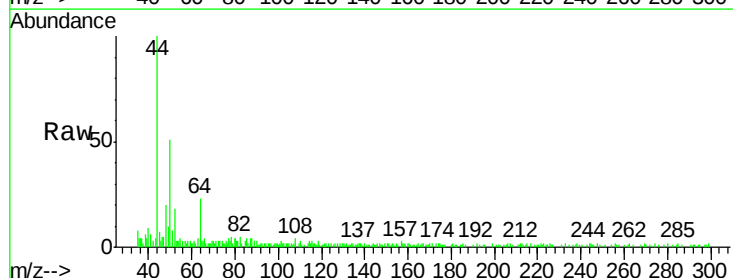
Acq: 20 Dec 2019 13:20

Tgt Ion: 50 Resp: 3592

Ion Ratio Lower Upper

50 100

52 25.1 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

4000

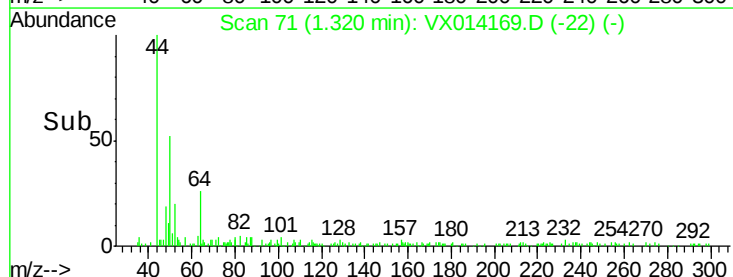
3000

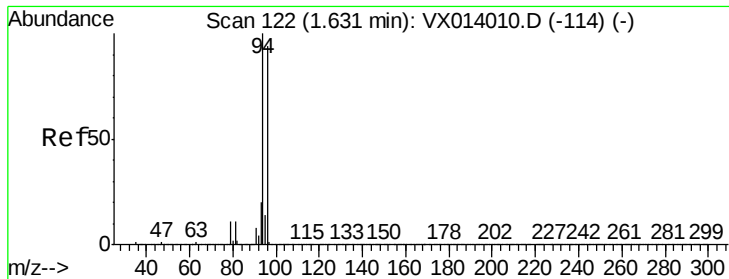
2000

1000

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.254 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

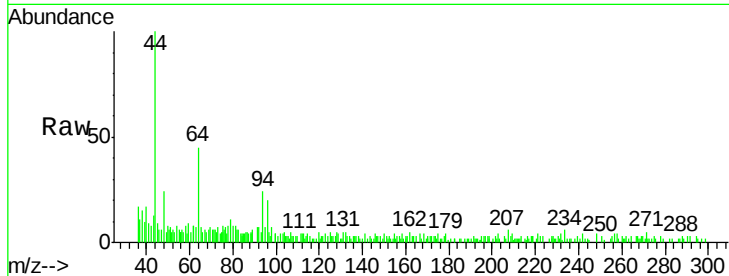
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 94 Resp: 1321

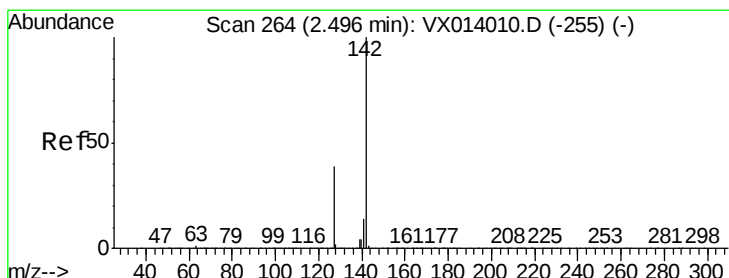
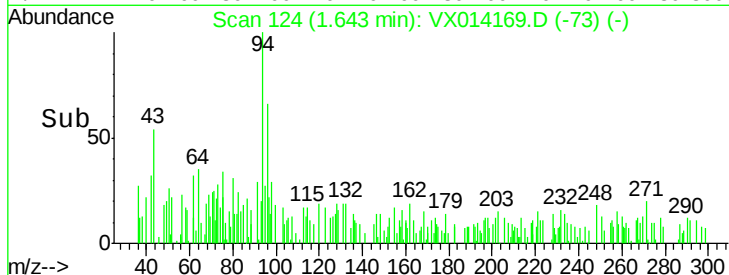
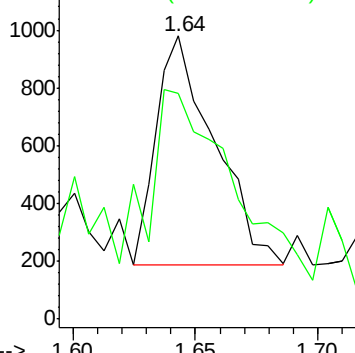
Ion Ratio Lower Upper

94 100

96 61.3 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX014010.D (-114) (-)



#10

Methyl Iodide

Concen: 2.763 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

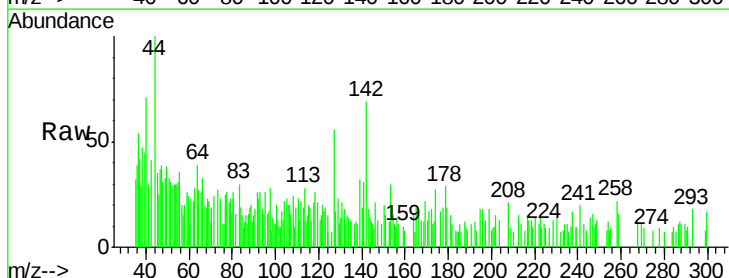
Tgt Ion: 142 Resp: 1082

Ion Ratio Lower Upper

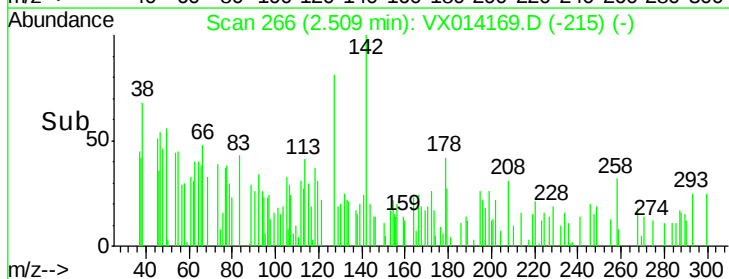
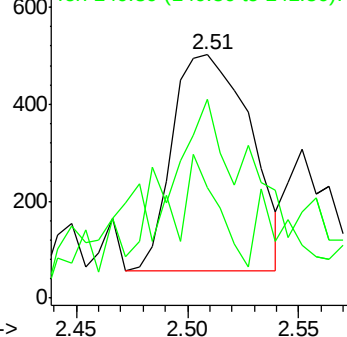
142 100

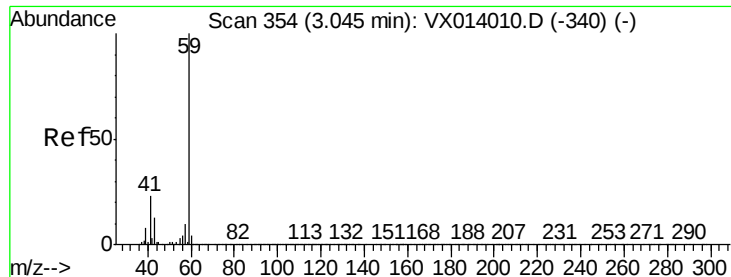
127 63.1 31.6 47.4#

141 19.2 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VX014010.D (-255) (-)



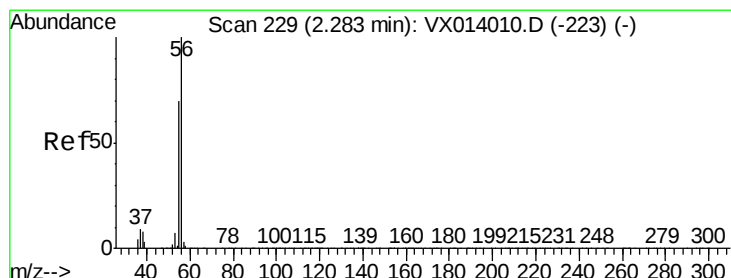
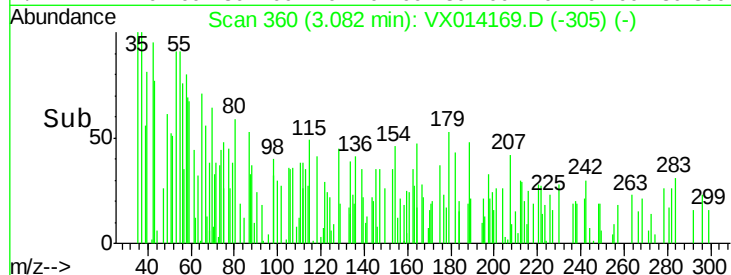
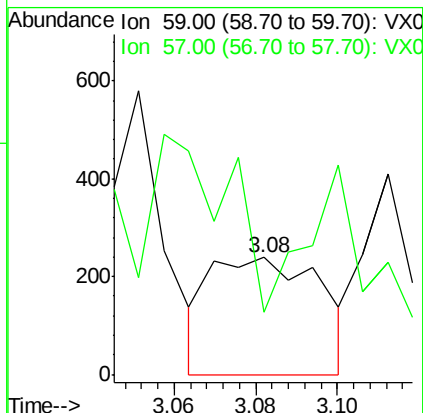
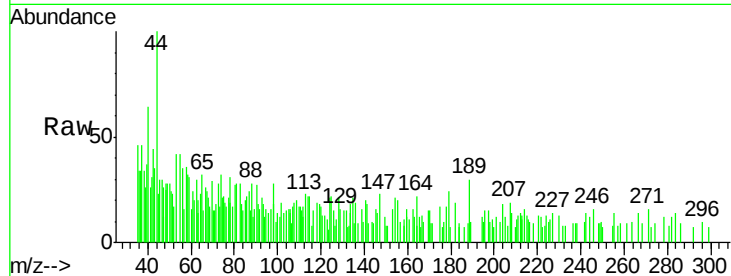


#11

Tert butyl alcohol
Concen: 0.319 ug/l
RT: 3.08 min Scan# 360
Delta R.T. 0.04 min
Lab File: VX014169.D
Acq: 20 Dec 2019 13:20

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

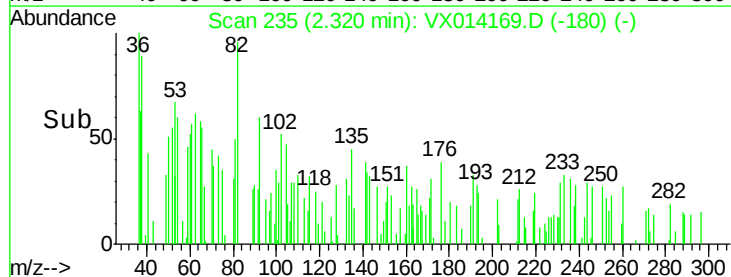
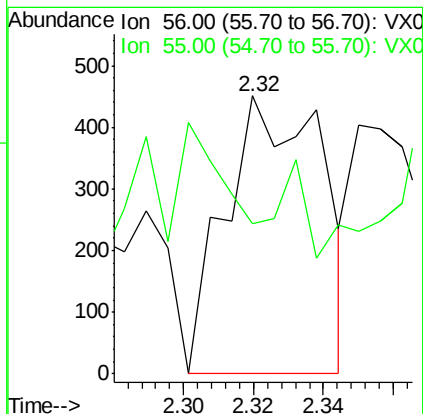
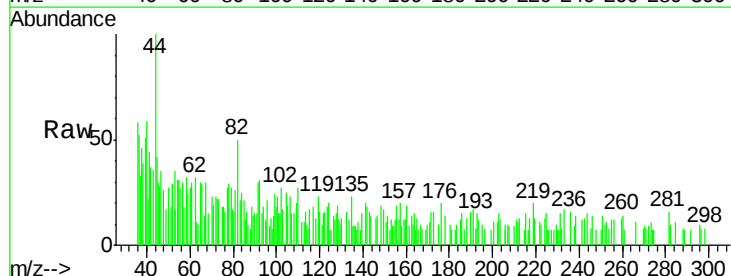
Tgt Ion: 59 Resp: 453
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

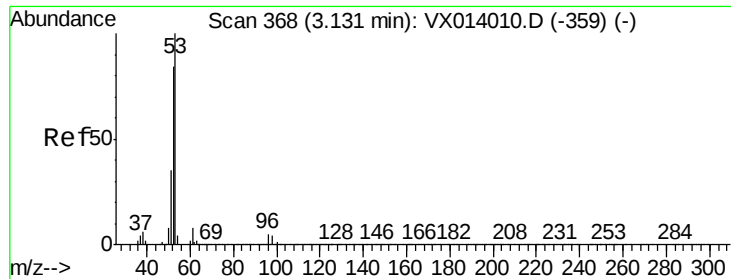


#13

Acrolein
Concen: 1.067 ug/l
RT: 2.32 min Scan# 235
Delta R.T. 0.04 min
Lab File: VX014169.D
Acq: 20 Dec 2019 13:20

Tgt Ion: 56 Resp: 867
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#

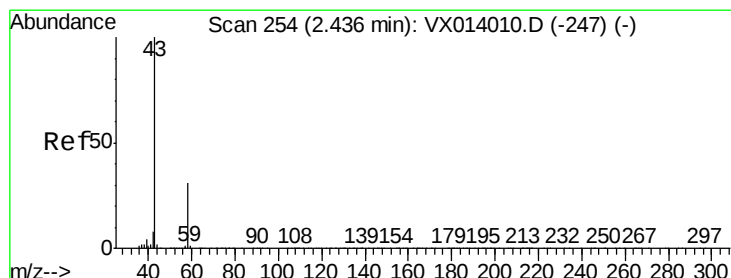
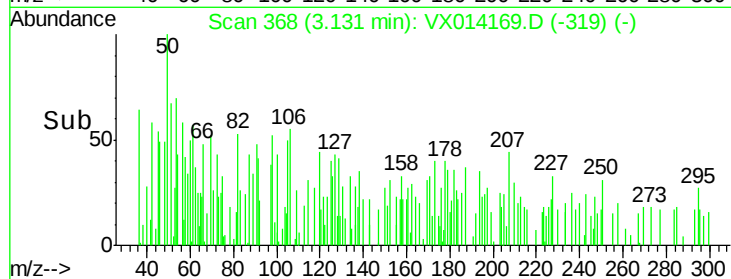
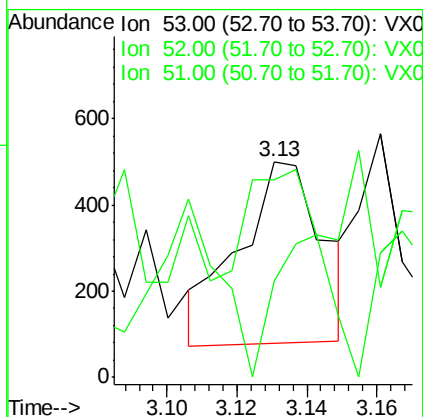
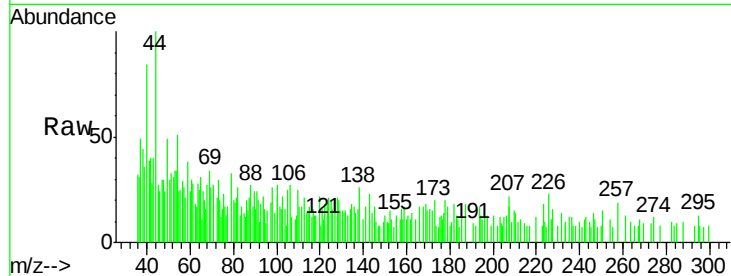




#15
Acrylonitrile
Concen: 0.211 ug/l
RT: 3.13 min Scan# 368
Delta R.T. 0.00 min
Lab File: VX014169.D
Acq: 20 Dec 2019 13:20

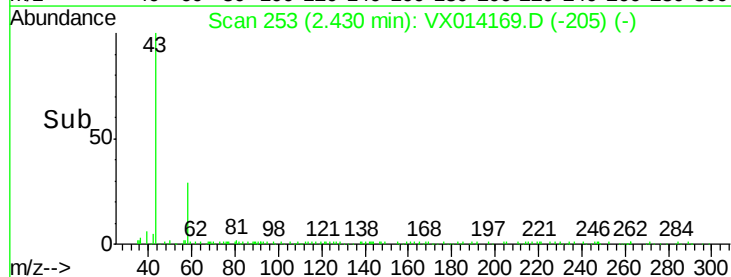
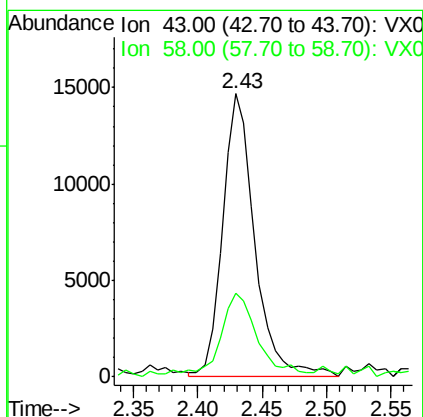
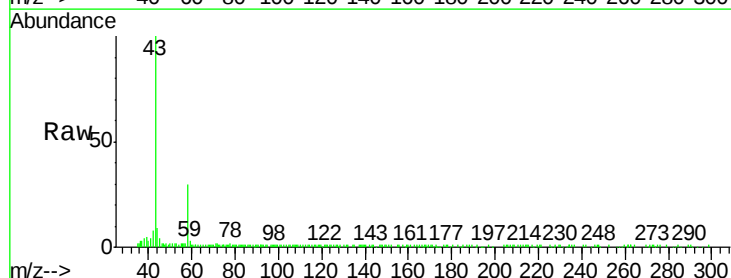
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

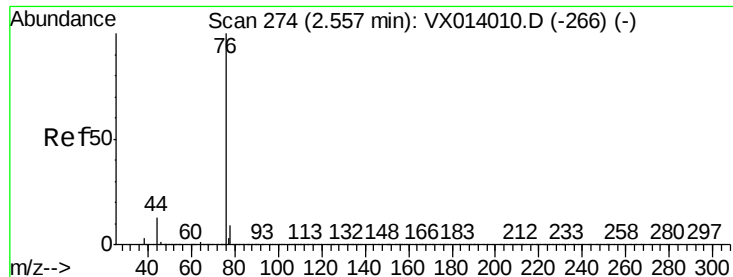
Tgt Ion: 53 Resp: 699
Ion Ratio Lower Upper
53 100
52 0.0 66.5 99.7#
51 111.2 28.1 42.1#



#16
Acetone
Concen: 6.035 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014169.D
Acq: 20 Dec 2019 13:20

Tgt Ion: 43 Resp: 25729
Ion Ratio Lower Upper
43 100
58 28.5 24.9 37.3





#17

Carbon Disulfide

Concen: 0.887 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

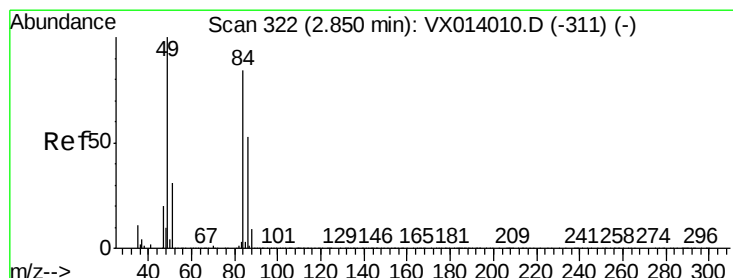
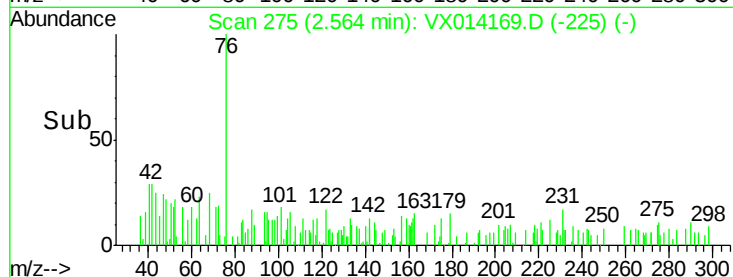
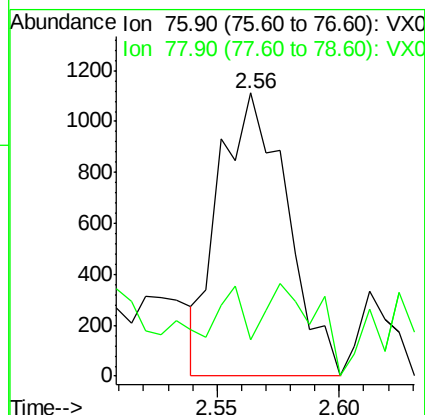
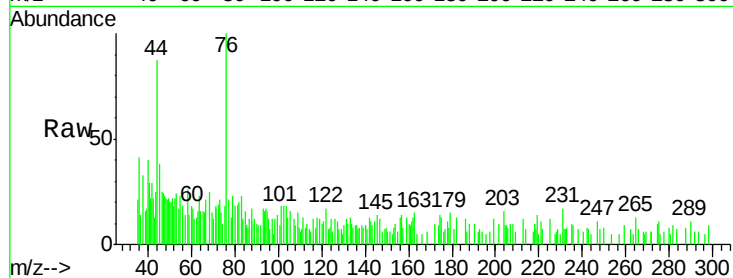
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 76 Resp: 2144

Ion Ratio Lower Upper

76 100

78 12.9 7.2 10.8#



#20

Methylene Chloride

Concen: 0.862 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Tgt Ion: 84 Resp: 5789

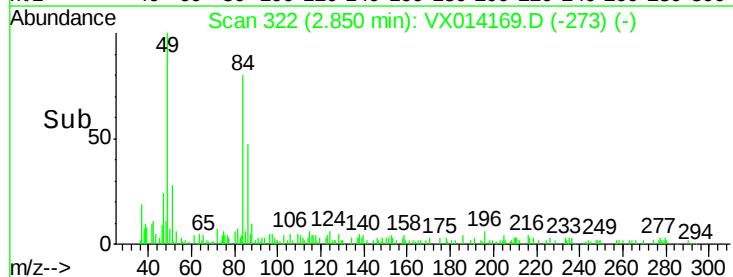
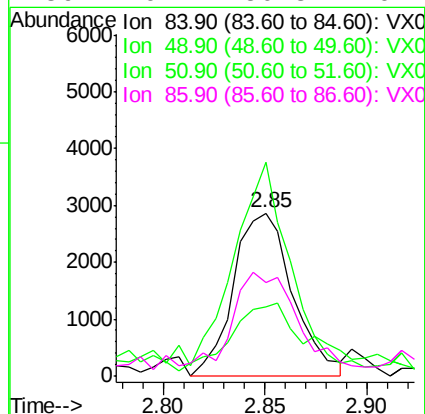
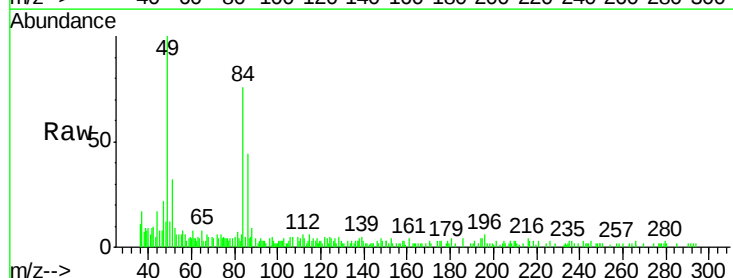
Ion Ratio Lower Upper

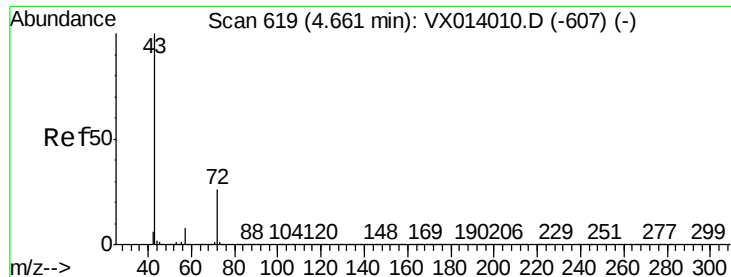
84 100

49 116.6 95.8 143.6

51 34.4 29.8 44.8

86 49.4 50.8 76.2#





#25

2-Butanone

Concen: 1.008 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

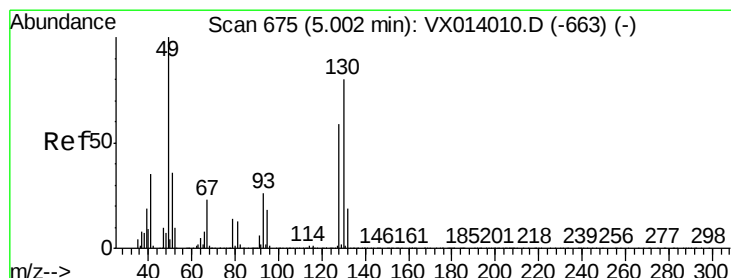
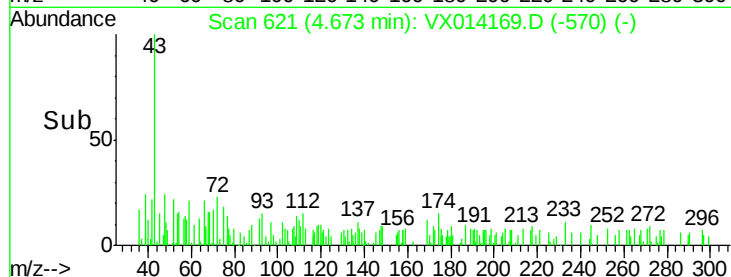
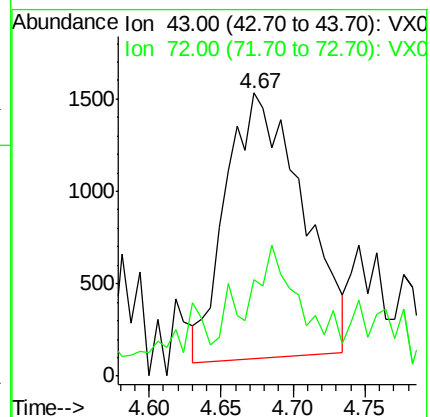
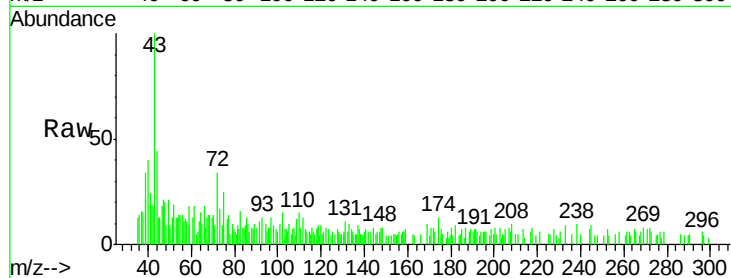
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 43 Resp: 5300

Ion Ratio Lower Upper

43 100

72 27.5 21.0 31.4



#28

Bromochloromethane

Concen: 0.515 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

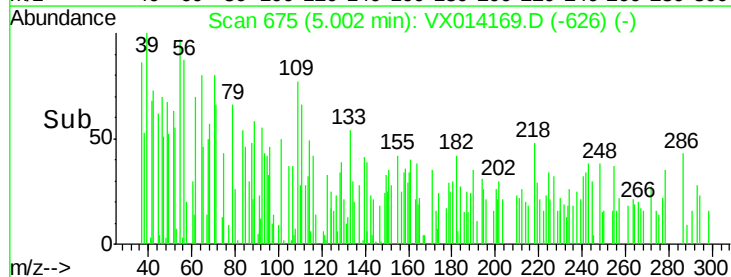
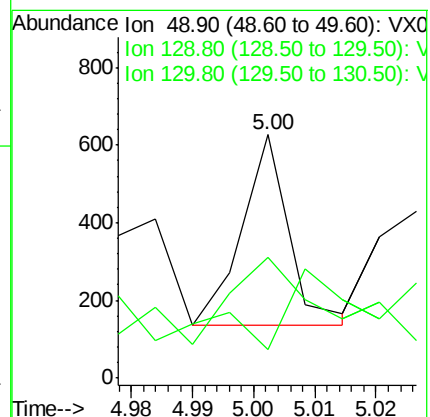
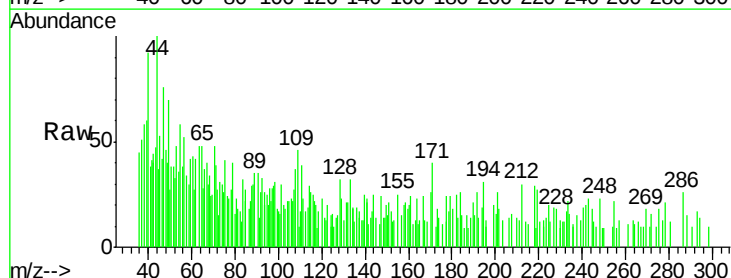
Tgt Ion: 49 Resp: 261

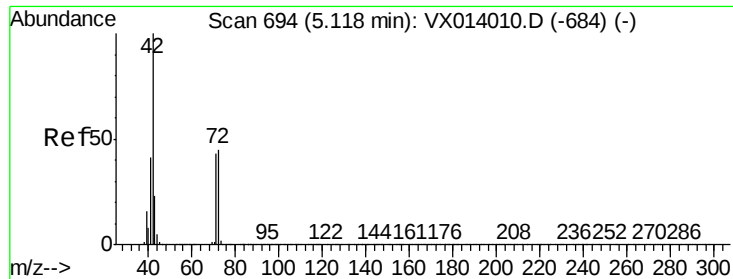
Ion Ratio Lower Upper

49 100

129 218.4 0.0 5.0#

130 168.2 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.388 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.00 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

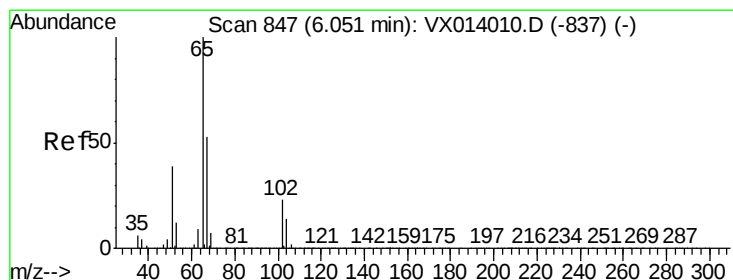
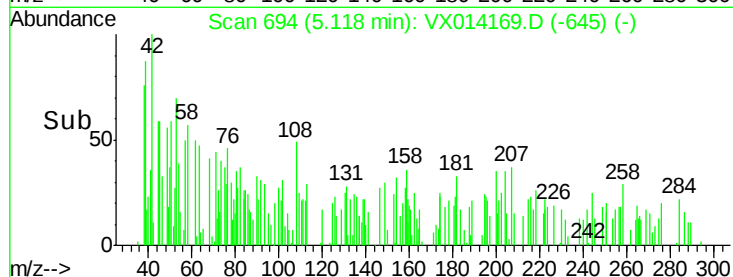
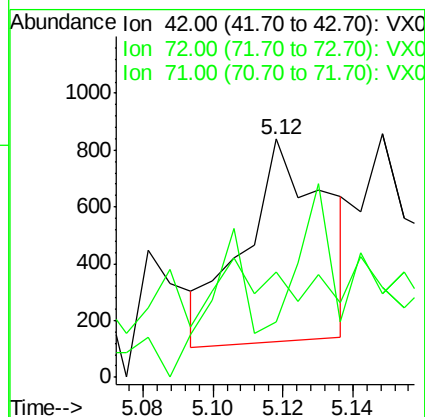
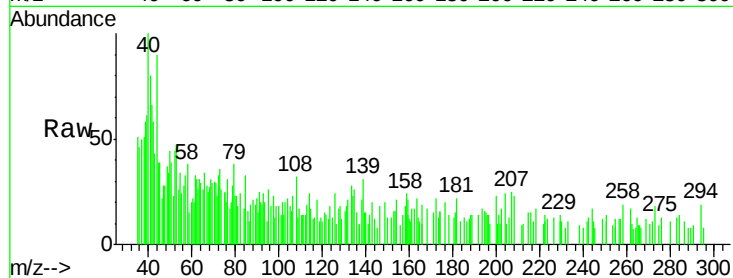
Tgt Ion: 42 Resp: 1141

Ion Ratio Lower Upper

42 100

72 25.9 35.8 53.8#

71 35.2 33.6 50.4



#33

1,2-Dichloroethane-d4

Concen: 47.407 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014169.D

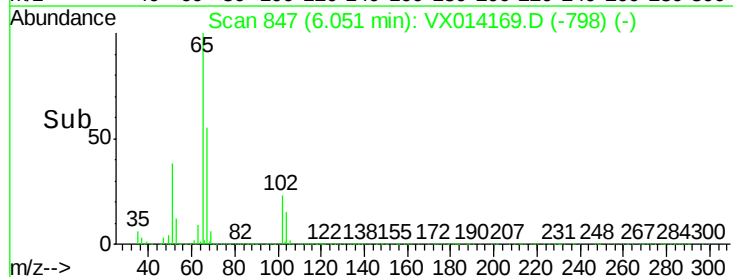
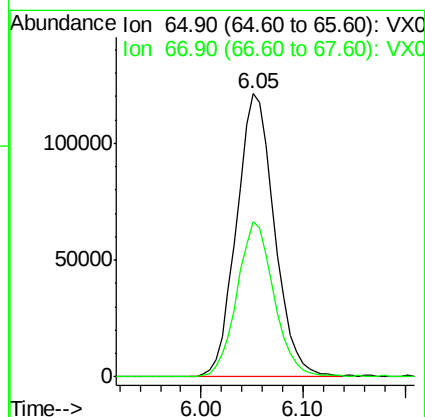
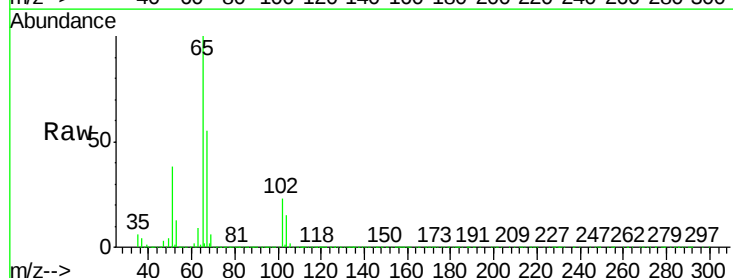
Acq: 20 Dec 2019 13:20

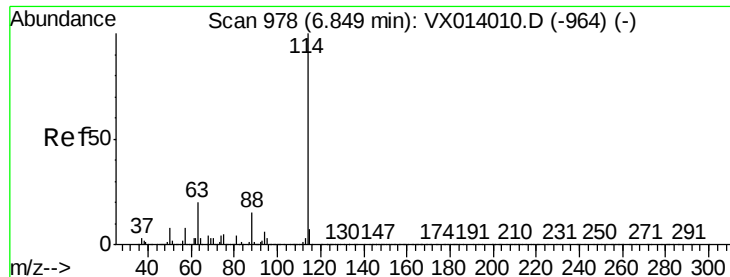
Tgt Ion: 65 Resp: 311330

Ion Ratio Lower Upper

65 100

67 53.2 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: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

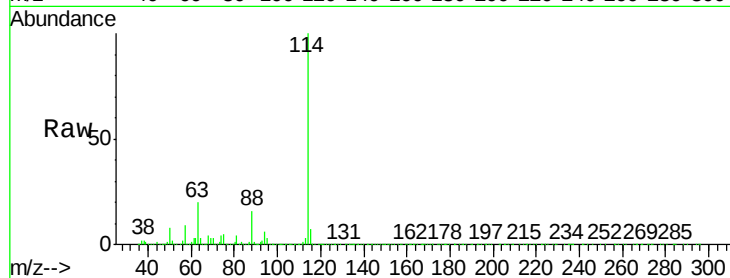
Tgt Ion:114 Resp: 878131

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

88 15.7 0.0 30.4



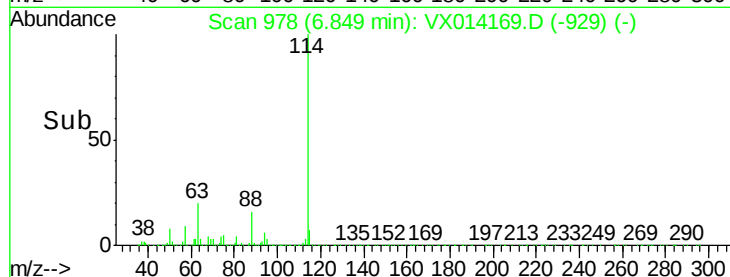
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

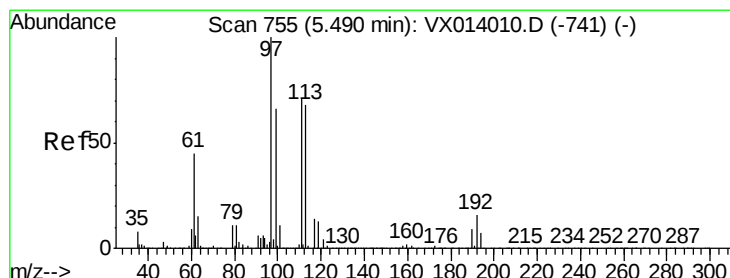
Ion 87.90 (87.60 to 88.60): VX0

6.85

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 48.378 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

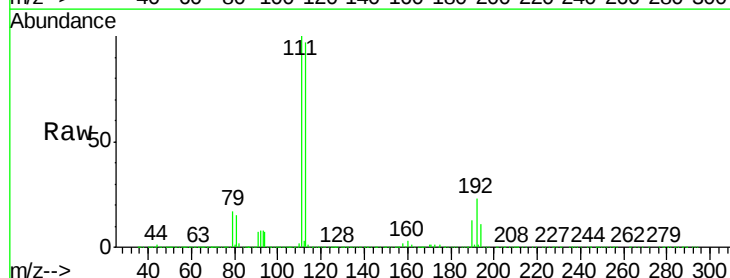
Tgt Ion:113 Resp: 258243

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

192 23.5 19.3 28.9



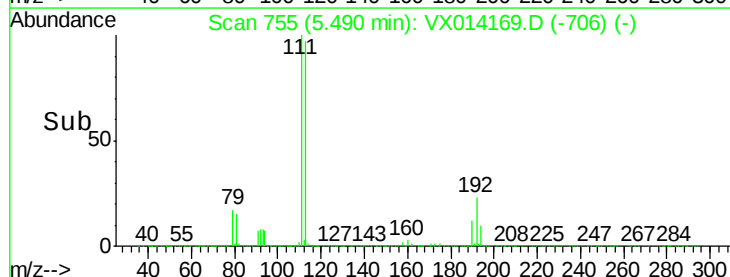
Abundance Ion 112.80 (112.50 to 113.50): V

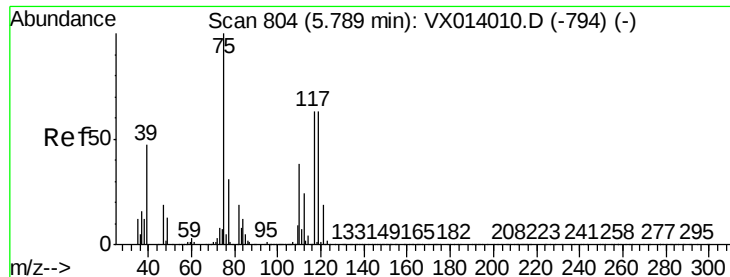
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

5.49

Time-->

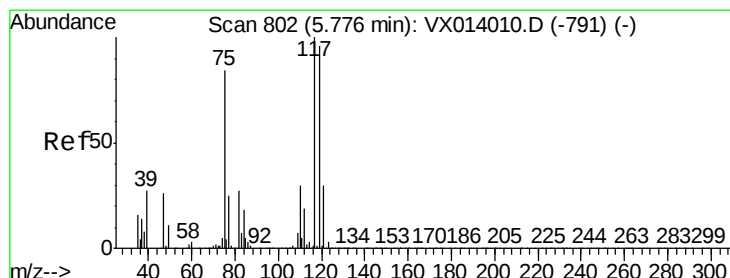
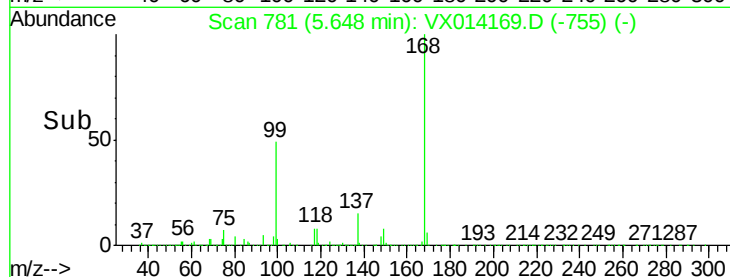
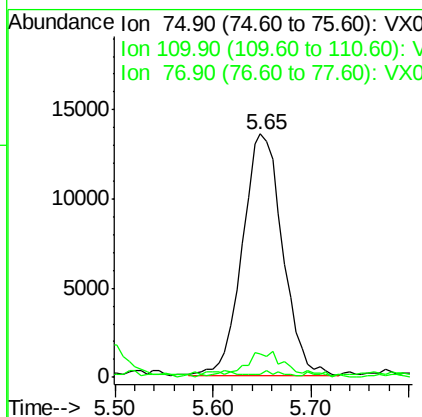
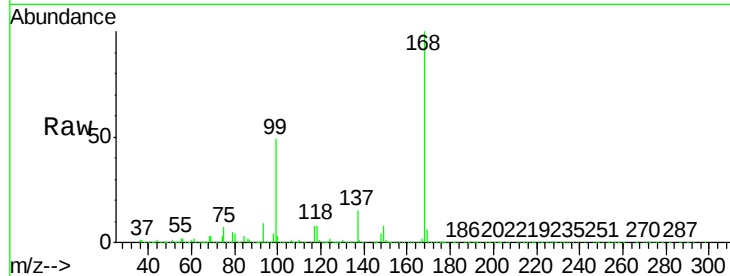




#36
 1,1-Dichloropropene
 Concen: 4.777 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014169.D
 Acq: 20 Dec 2019 13:20

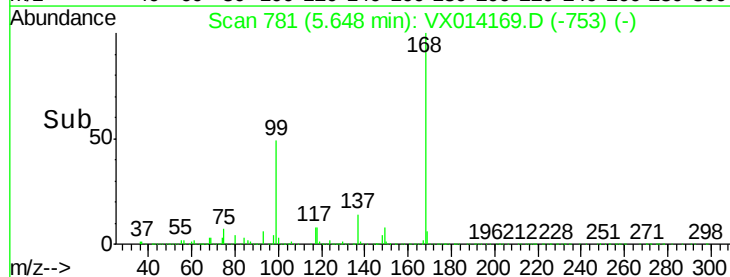
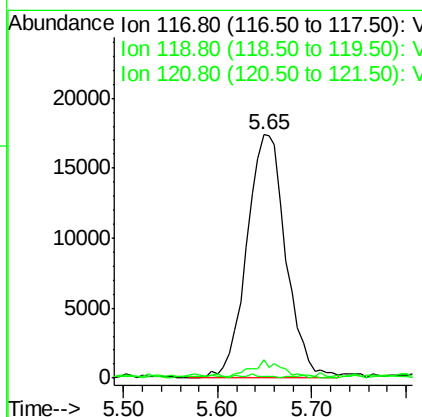
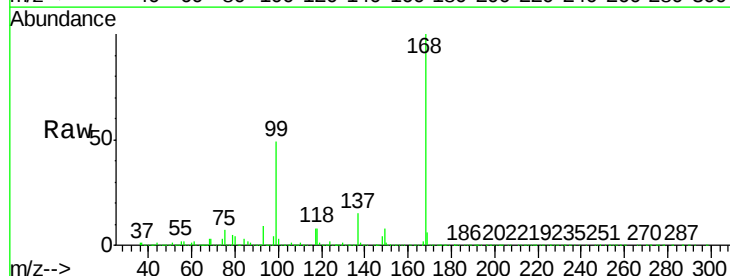
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-WATER-REF-4

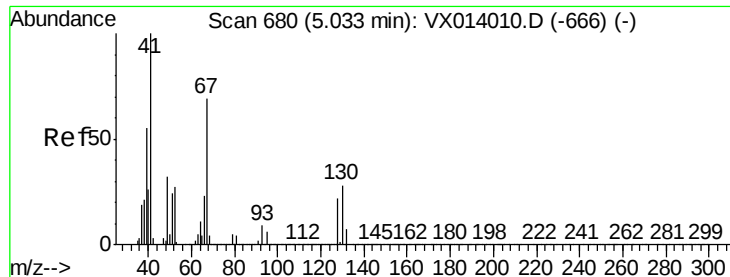
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.0	18.3	54.9#
77	0.6	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.878 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014169.D
 Acq: 20 Dec 2019 13:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	76.2	114.4#
121	0.1	23.6	35.4#





#41

Methacrylonitrile

Concen: 0.289 ug/l

RT: 5.05 min Scan# 683

Delta R.T. 0.02 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

Tgt Ion: 41 Resp: 1425

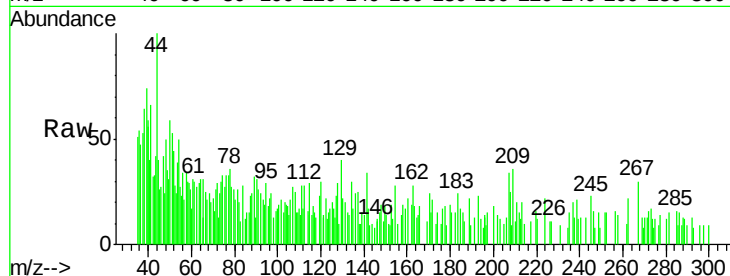
Ion Ratio Lower Upper

41 100

39 27.9 44.5 66.7#

67 0.0 57.4 86.0#

52 0.0 23.0 34.4#

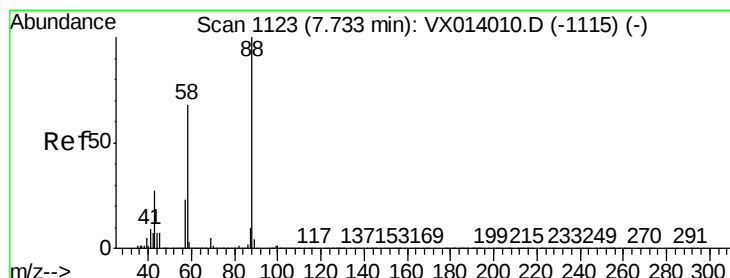
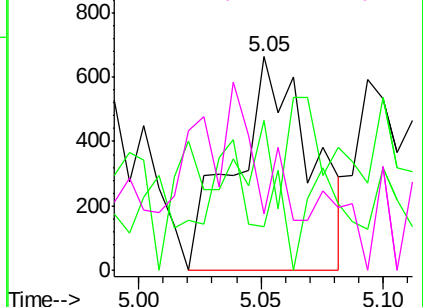
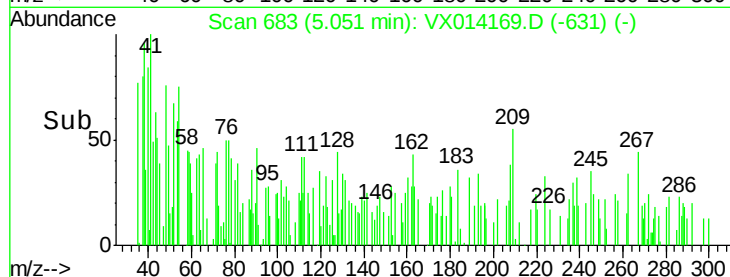


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#49

1,4-Dioxane

Concen: 3.101 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

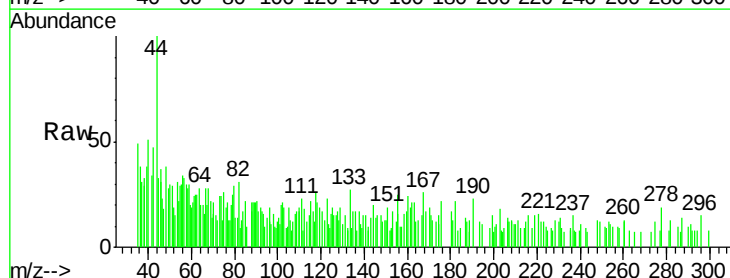
Tgt Ion: 88 Resp: 455

Ion Ratio Lower Upper

88 100

43 159.6 26.5 39.7#

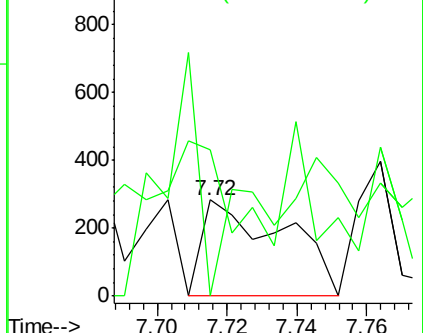
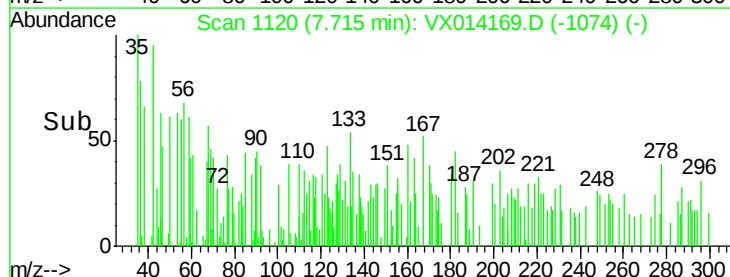
58 75.6 56.8 85.2

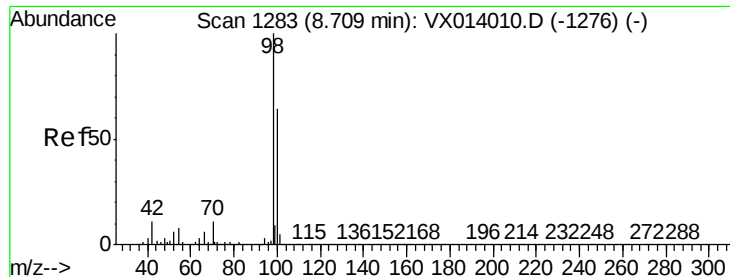


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.593 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

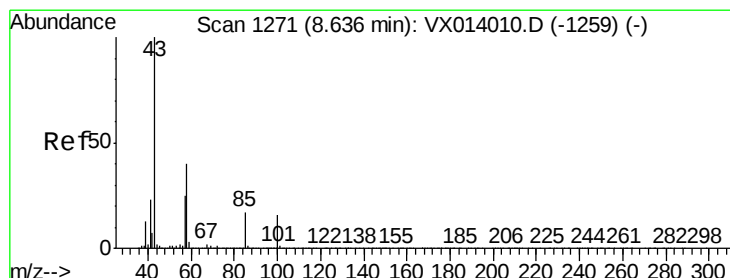
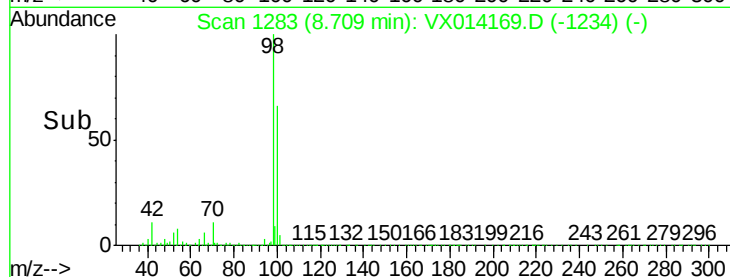
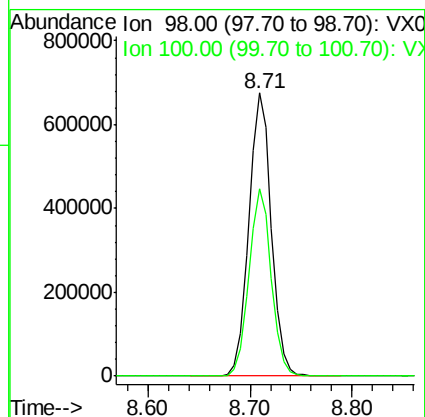
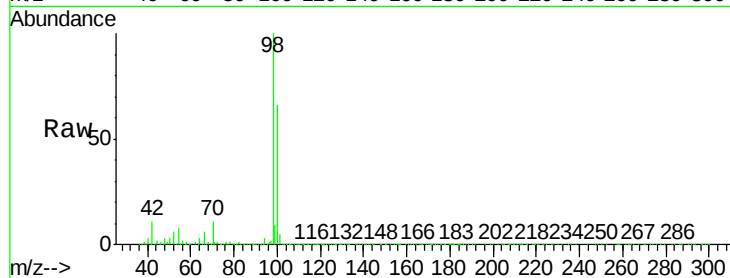
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 98 Resp: 1030654

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.293 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014169.D

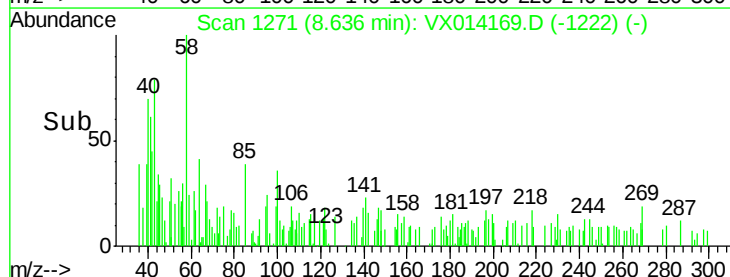
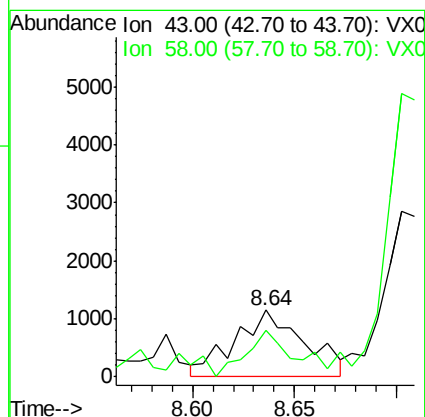
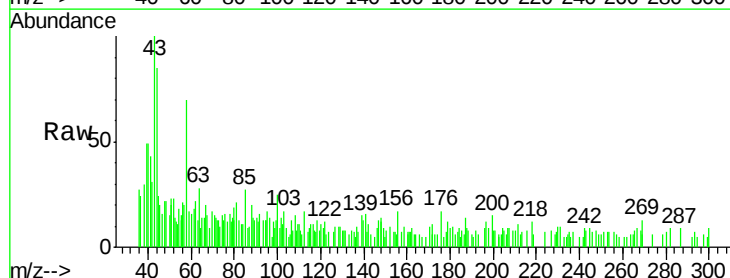
Acq: 20 Dec 2019 13:20

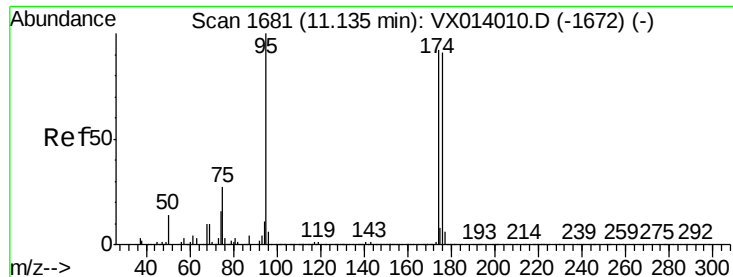
Tgt Ion: 43 Resp: 2713

Ion Ratio Lower Upper

43 100

58 41.0 32.2 48.2





#62

4-Bromofluorobenzene

Concen: 46.275 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

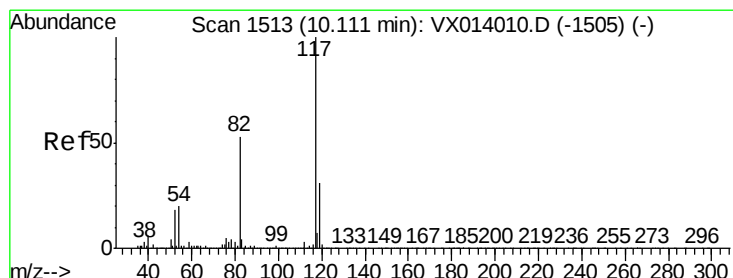
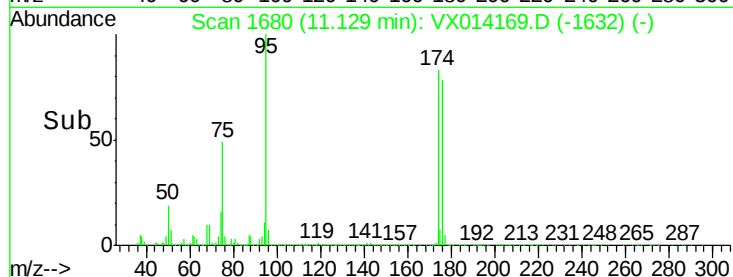
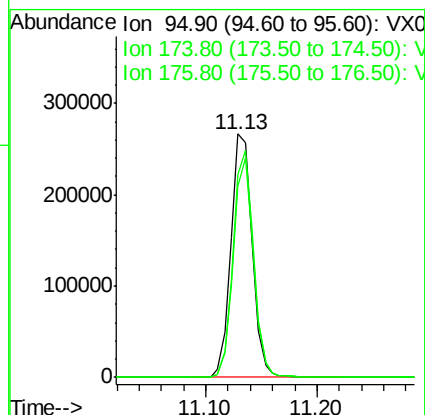
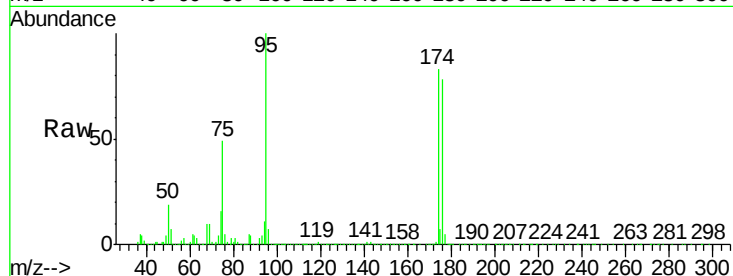
Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

Tgt Ion:	95	Resp:	351545
Ion	Ratio	Lower	Upper
95	100		
174	89.9	0.0	175.8
176	85.6	0.0	173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

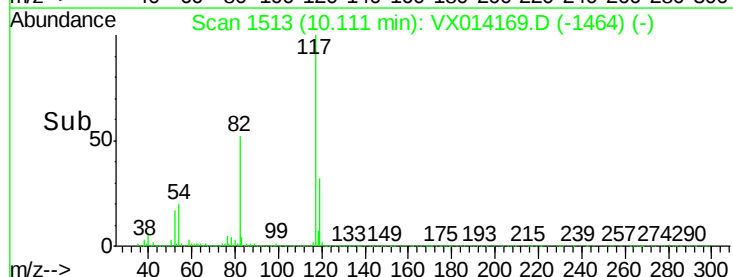
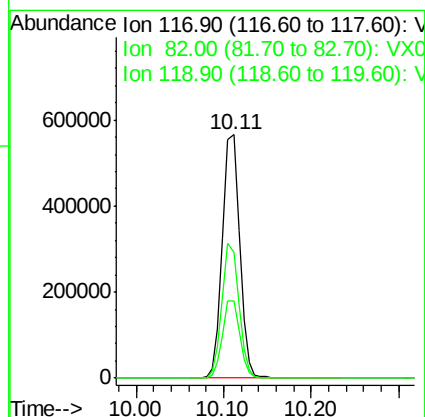
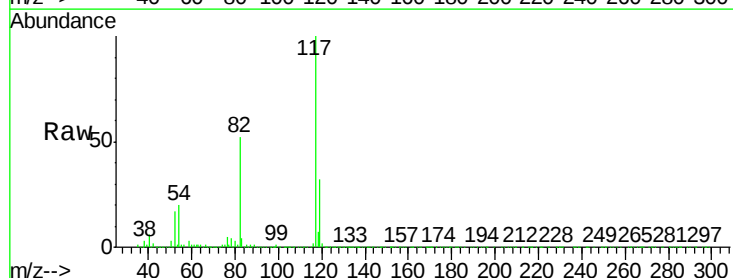
RT: 10.11 min Scan# 1513

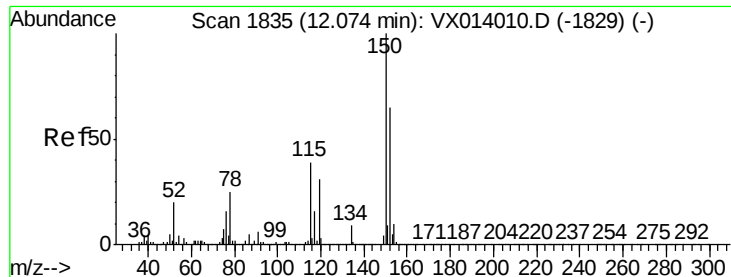
Delta R.T. 0.00 min

Lab File: VX014169.D

Acq: 20 Dec 2019 13:20

Tgt Ion:	117	Resp:	776077
Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.2	63.4
119	31.6	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: VX014169.D

Acq: 20 Dec 2019 13:20

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

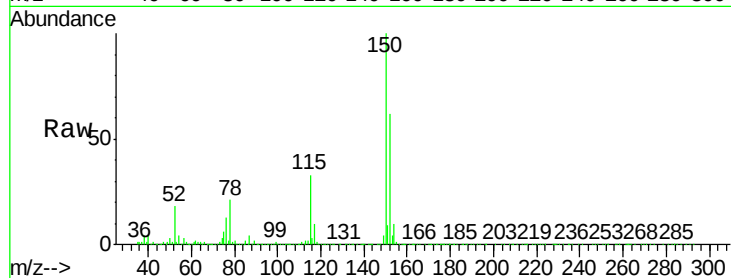
Tgt Ion: 152 Resp: 344485

Ion Ratio Lower Upper

152 100

115 55.1 38.3 114.9

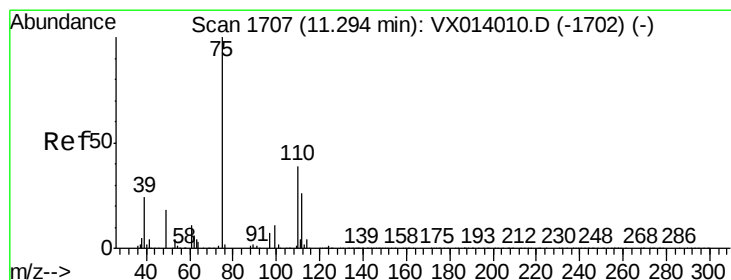
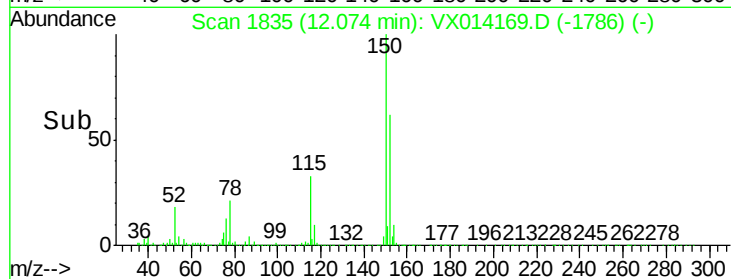
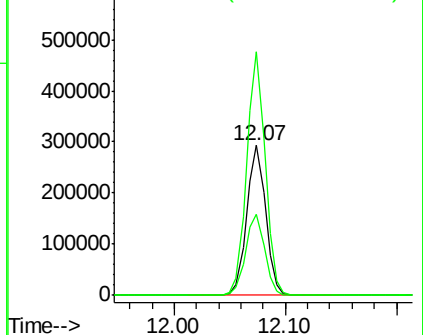
150 159.1 0.0 345.4



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: 22.704 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014169.D

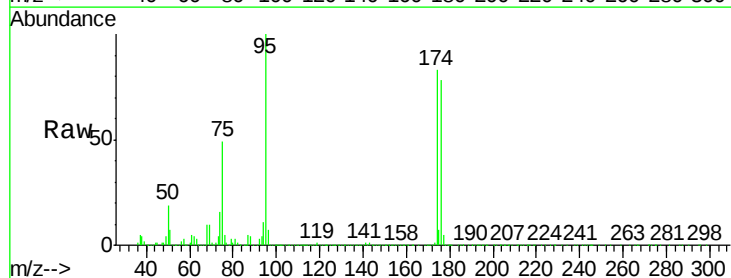
Acq: 20 Dec 2019 13:20

Tgt Ion: 75 Resp: 169798

Ion Ratio Lower Upper

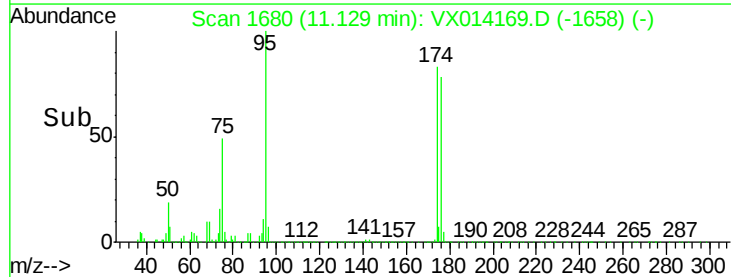
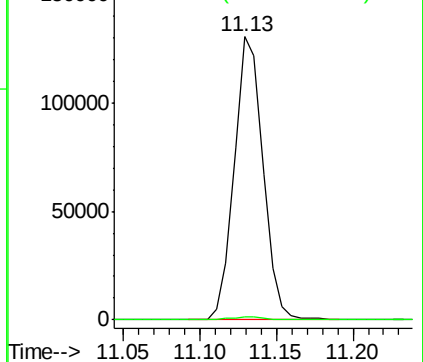
75 100

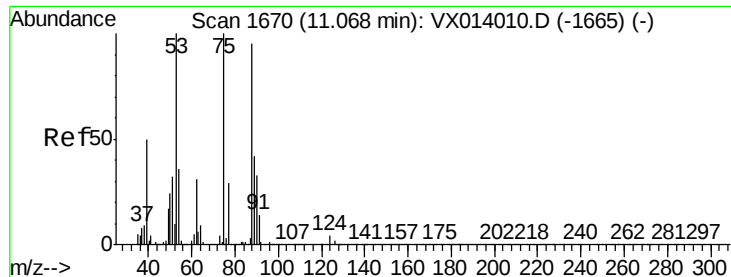
77 1.5 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

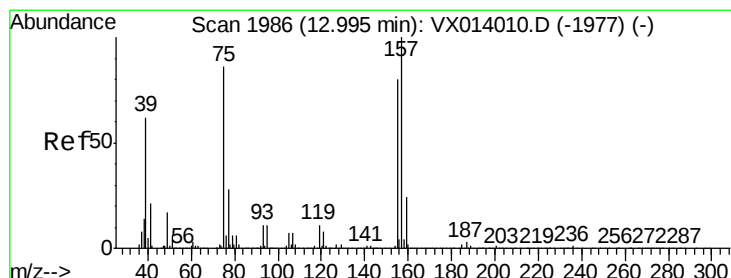
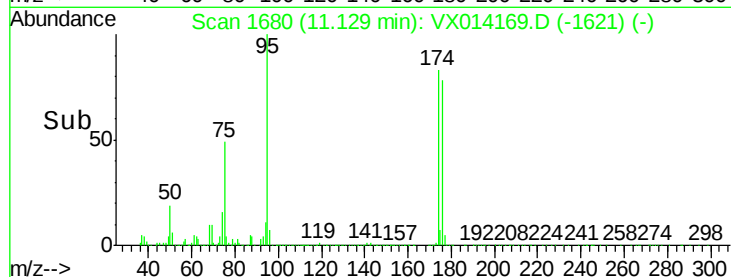
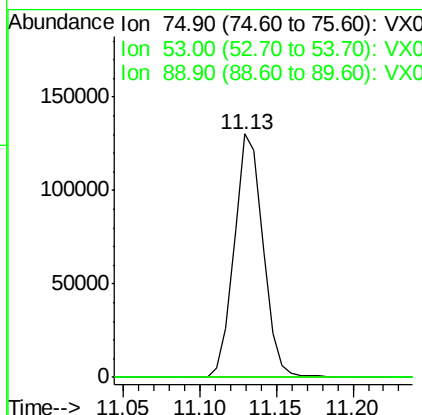
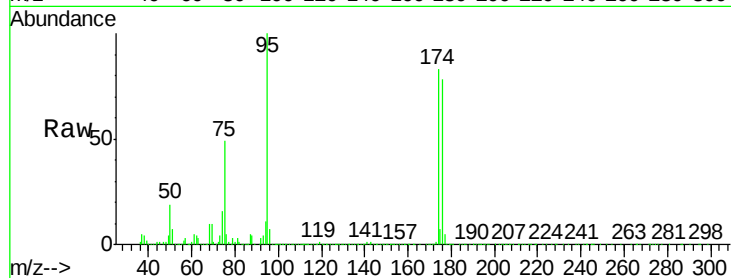




#81
trans-1,4-Dichloro-2-butene
Concen: 64.083 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014169.D
Acq: 20 Dec 2019 13:20

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 75 Resp: 169798
Ion Ratio Lower Upper
75 100
53 0.2 76.7 115.1#
89 0.2 34.6 51.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.356 ug/l
RT: 12.99 min Scan# 1985
Delta R.T. -0.01 min
Lab File: VX014169.D
Acq: 20 Dec 2019 13:20

Tgt Ion: 75 Resp: 662
Ion Ratio Lower Upper
75 100
155 36.7 46.9 140.6#
157 24.3 60.8 182.4#

