

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014307.D
 Acq On : 27 Dec 2019 14:35
 Operator : JC/SP
 Sample : K6457-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Dec 30 05:35:03 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	526735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	817568	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	723118	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	312236	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	294192	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
35) Dibromofluoromethane	5.49	113	244892	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
50) Toluene-d8	8.71	98	970106	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.13	95	317934	44.95	ug/l	0.00
Spiked Amount			Recovery	=	89.90%	

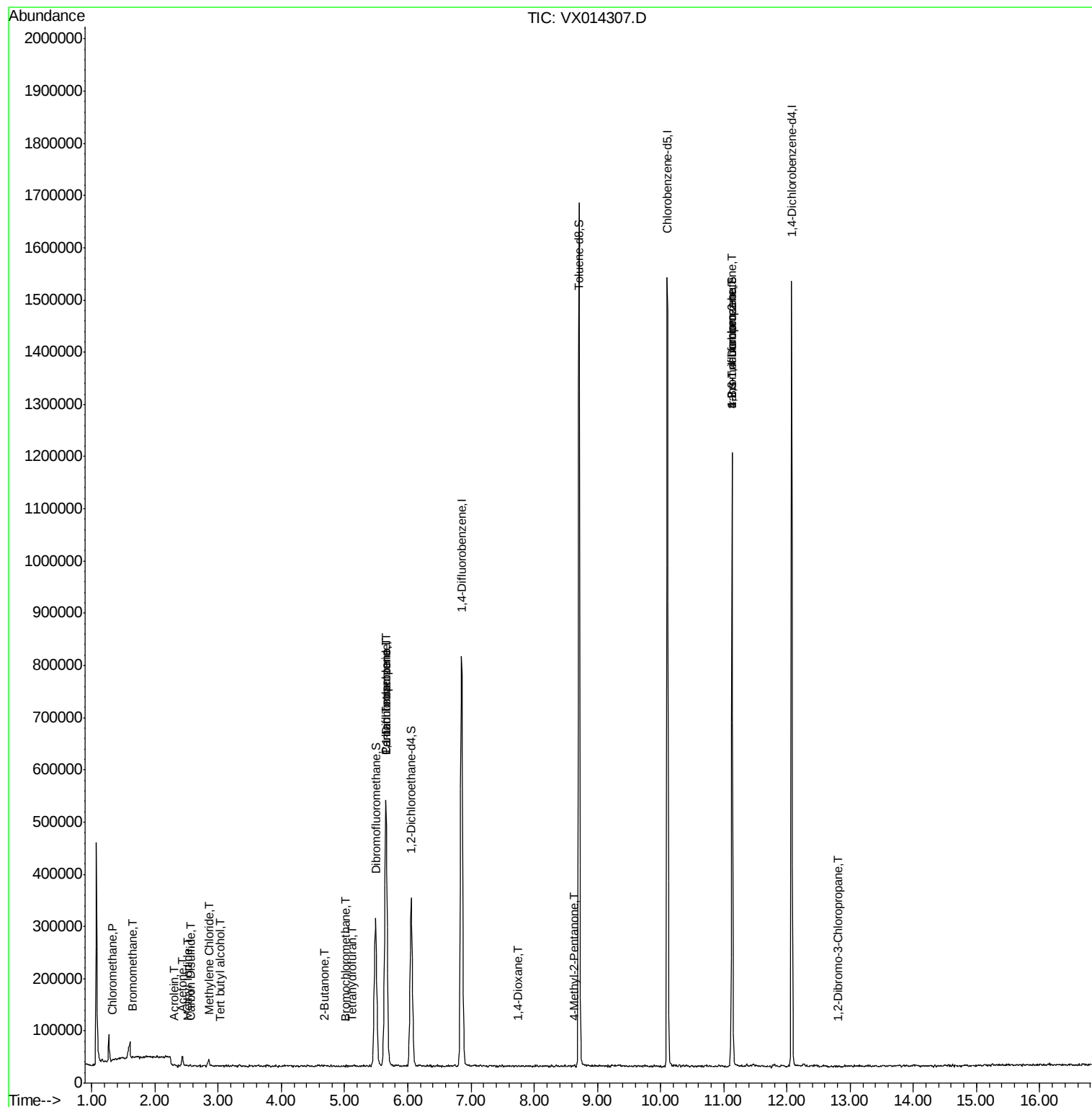
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2077	0.328	ug/l	97
5) Bromomethane	1.64	94	1963	0.414	ug/l #	60
10) Methyl Iodide	2.52	142	1070	2.775	ug/l #	51
11) Tert butyl alcohol	3.03	59	963	0.747	ug/l #	1
13) Acrolein	2.29	56	186	0.252	ug/l #	14
16) Acetone	2.44	43	19116	4.932	ug/l	89
17) Carbon Disulfide	2.56	76	1054	0.824	ug/l	96
20) Methylene Chloride	2.84	84	5947	0.974	ug/l	94
25) 2-Butanone	4.67	43	3112	0.651	ug/l	95
28) Bromochloromethane	5.00	49	129	0.487	ug/l #	5
29) Tetrahydrofuran	5.13	42	585	0.219	ug/l #	18
36) 1,1-Dichloropropene	5.65	75	35568	4.741	ug/l #	50
38) Carbon Tetrachloride	5.65	117	47375	6.932	ug/l #	16
49) 1,4-Dioxane	7.75	88	138	1.010	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2135	0.248	ug/l #	86
76) 1,2,3-Trichloropropane	11.13	75	156187	23.041	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	156187	65.034	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.81	75	349	0.207	ug/l	69

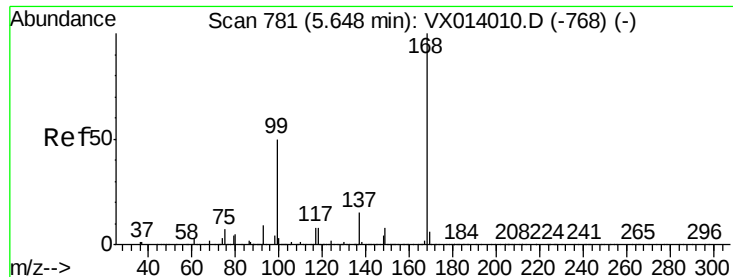
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

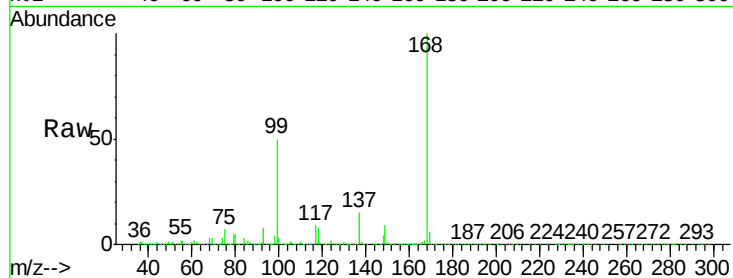
STORAGE-BLANK-WATER-REF-4

Tgt Ion:168 Resp: 526735

Ion Ratio Lower Upper

168 100

99 49.7 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

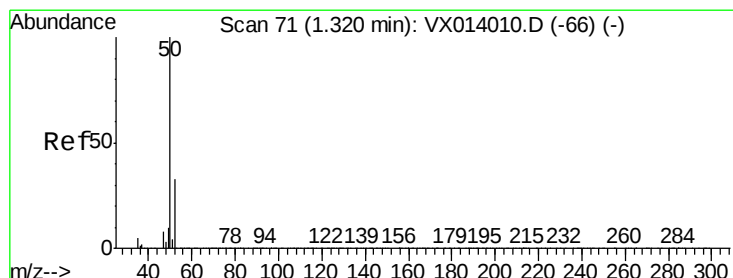
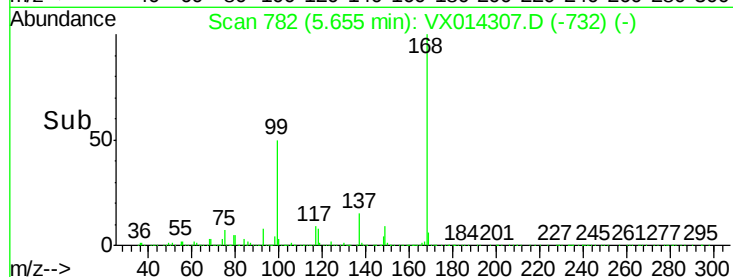
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.328 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014307.D

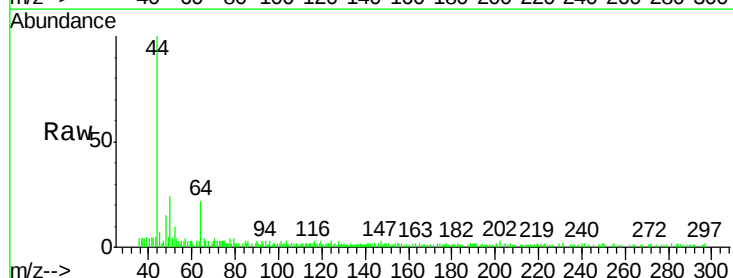
Acq: 27 Dec 2019 14:35

Tgt Ion: 50 Resp: 2077

Ion Ratio Lower Upper

50 100

52 31.2 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

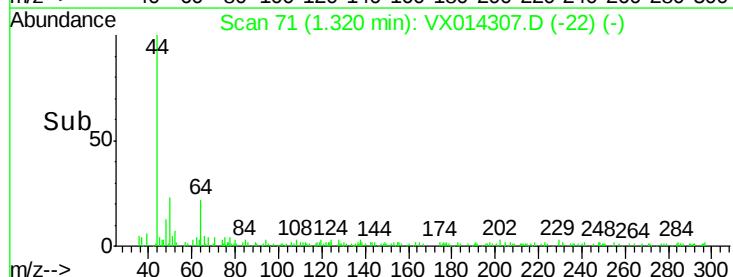
1500

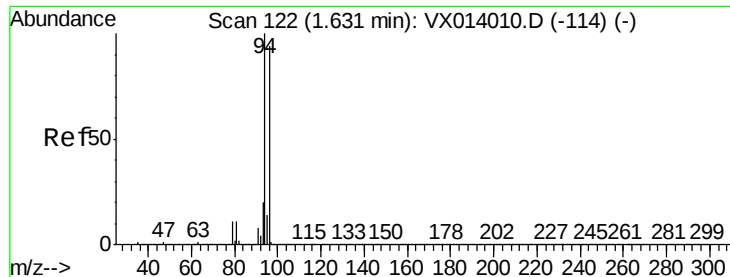
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.414 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

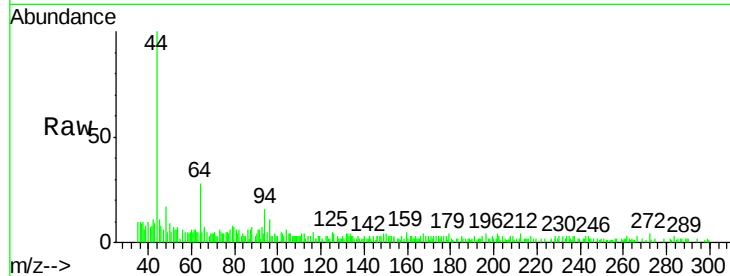
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 94 Resp: 1963

Ion Ratio Lower Upper

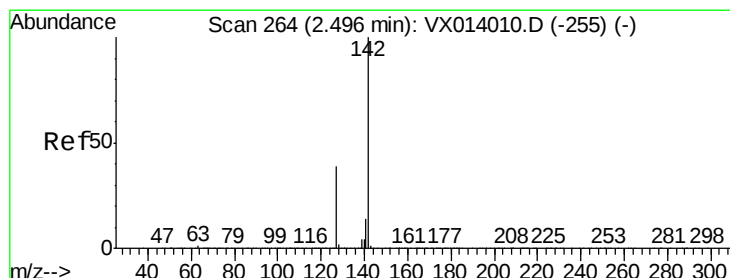
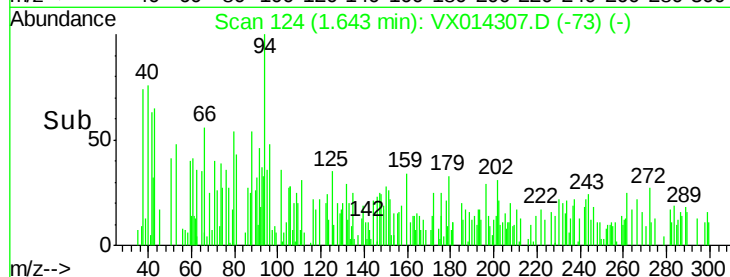
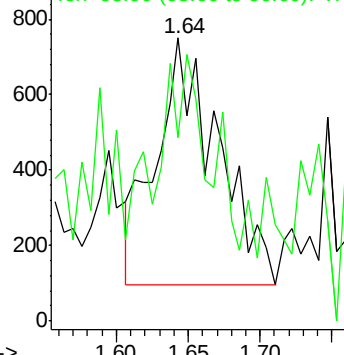
94 100

96 55.2 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: 2.775 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

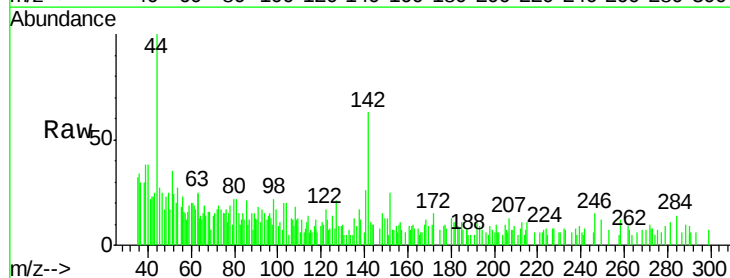
Tgt Ion: 142 Resp: 1070

Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

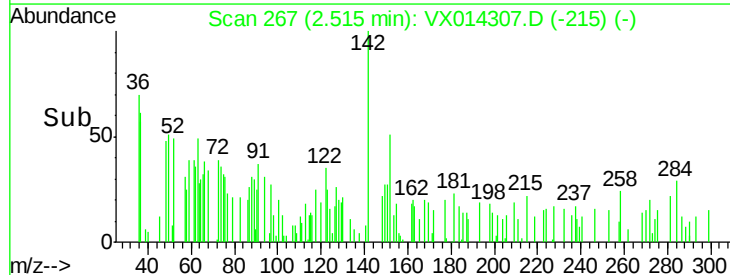
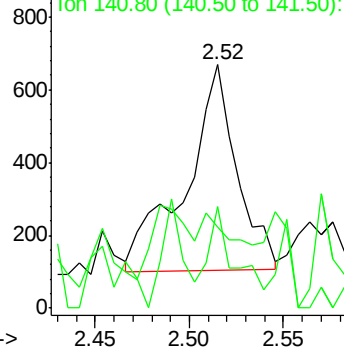
141 16.7 11.6 17.4

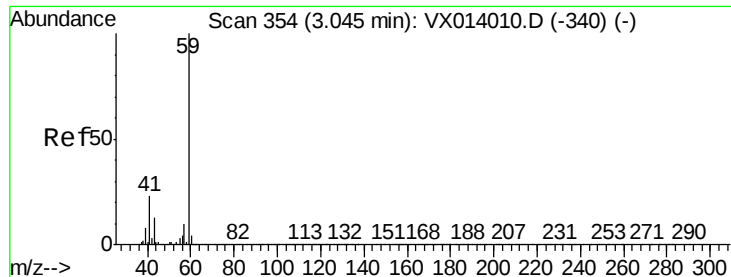


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



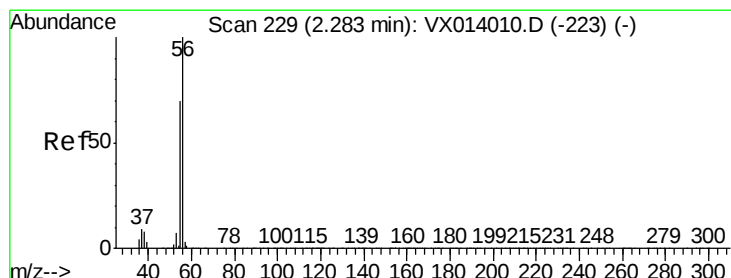
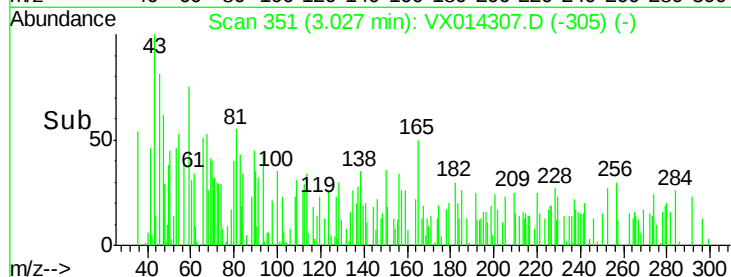
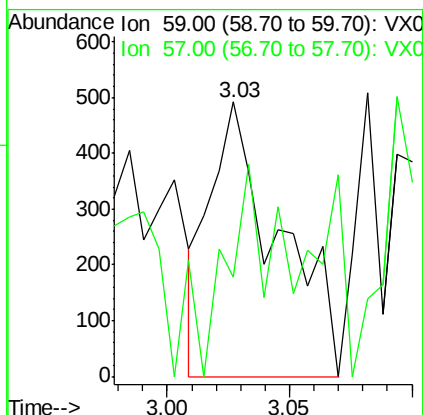
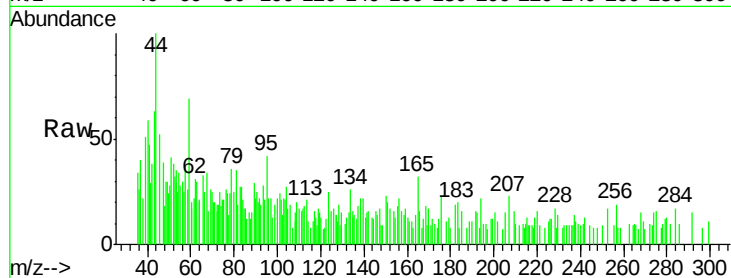


#11

Tert butyl alcohol
Concen: 0.747 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.02 min
Lab File: VX014307.D
Acq: 27 Dec 2019 14:35

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

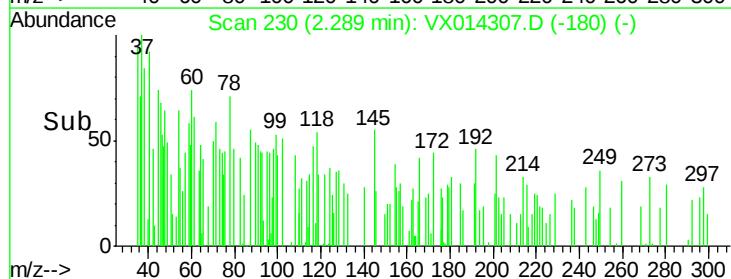
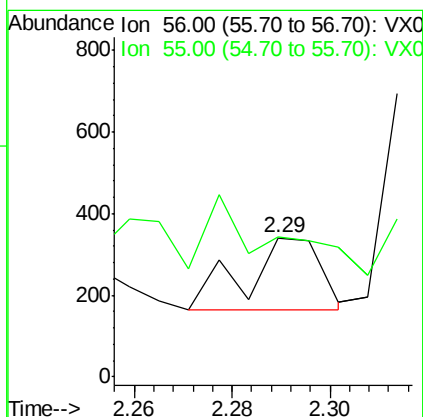
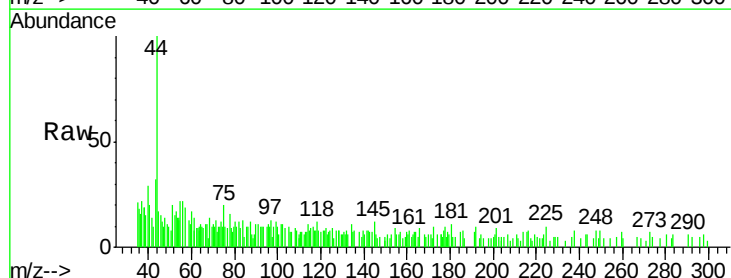
Tgt Ion: 59 Resp: 963
Ion Ratio Lower Upper
59 100
57 60.3 8.4 12.6#

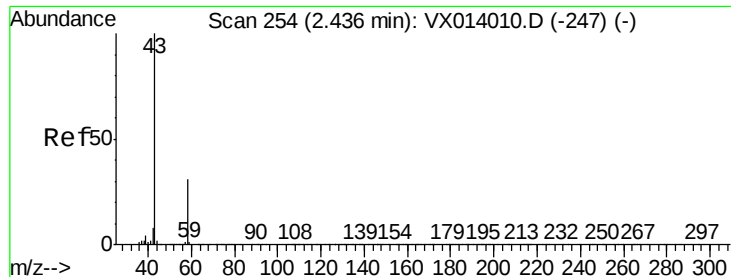


#13

Acrolein
Concen: 0.252 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014307.D
Acq: 27 Dec 2019 14:35

Tgt Ion: 56 Resp: 186
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#16

Acetone

Concen: 4.932 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

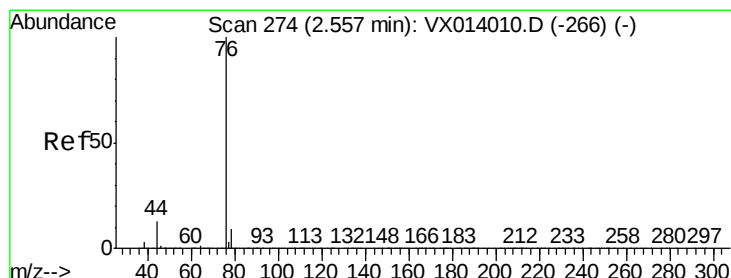
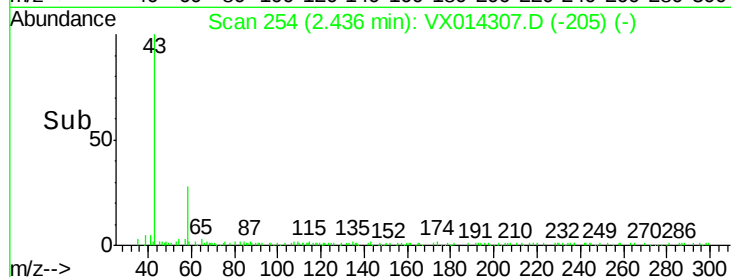
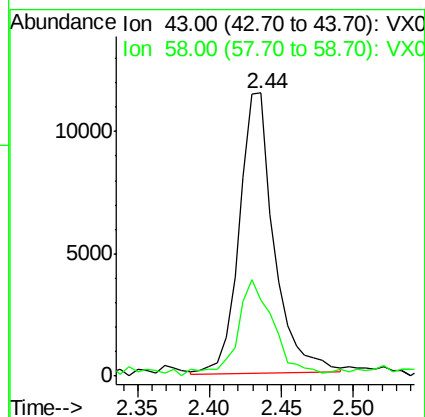
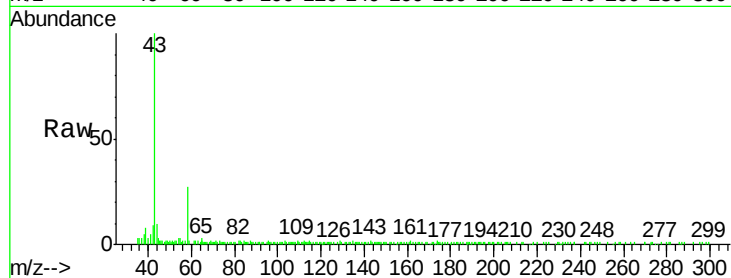
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 43 Resp: 19116

Ion Ratio Lower Upper

43 100

58 25.2 24.9 37.3



#17

Carbon Disulfide

Concen: 0.824 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014307.D

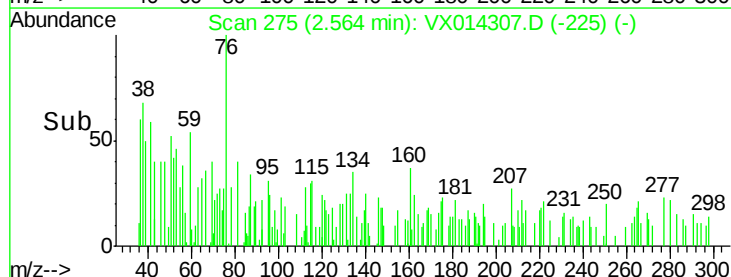
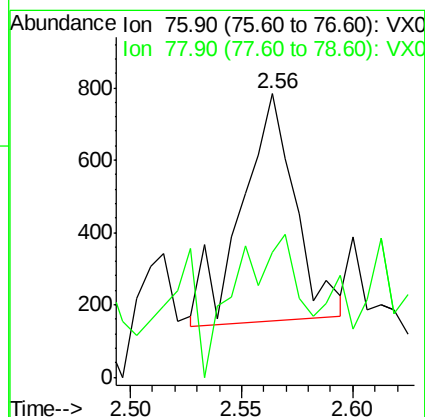
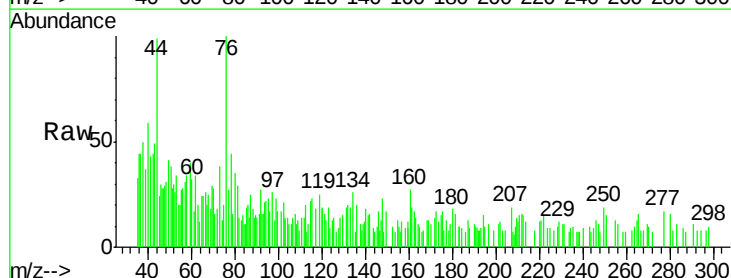
Acq: 27 Dec 2019 14:35

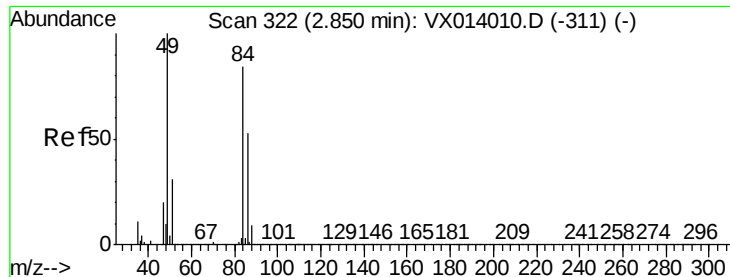
Tgt Ion: 76 Resp: 1054

Ion Ratio Lower Upper

76 100

78 10.4 7.2 10.8

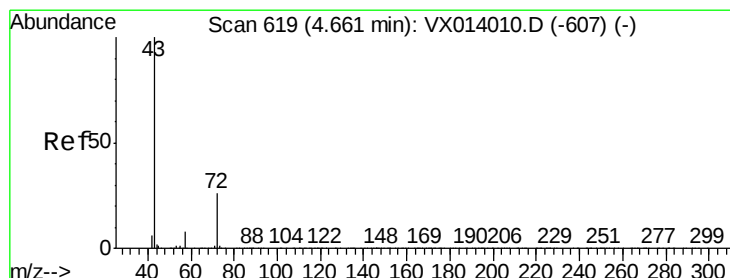
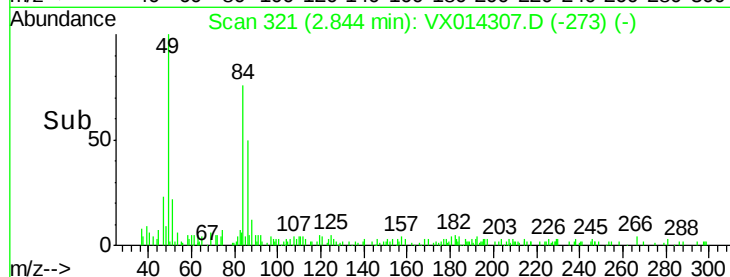
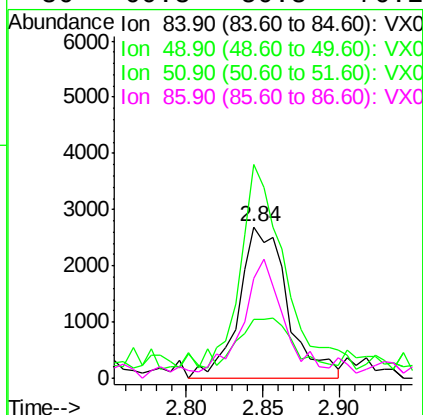
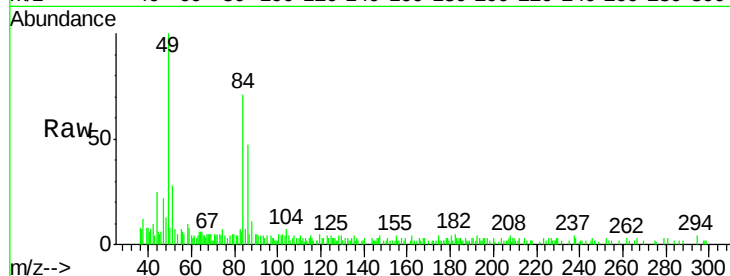




#20
Methylene Chloride
Concen: 0.974 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014307.D
Acq: 27 Dec 2019 14:35

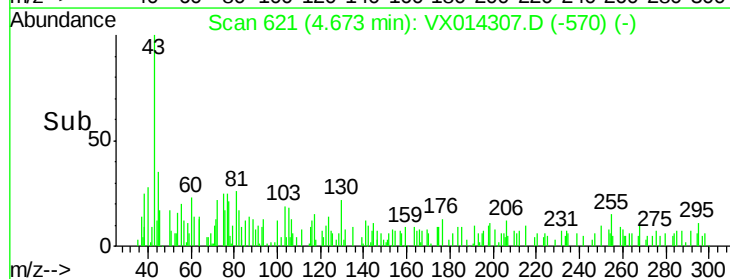
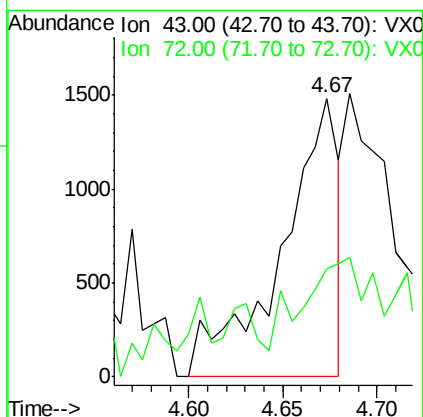
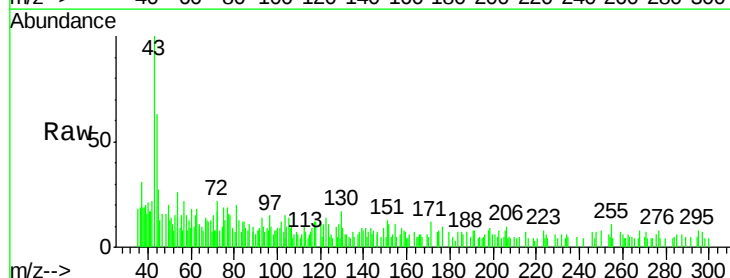
Instrument :
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ClientSampleId :
STORAGE-BLANK-WATER-REF-4

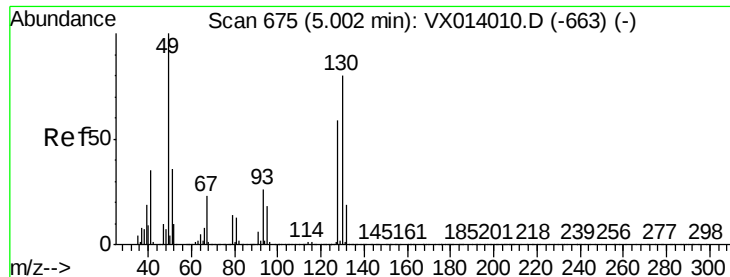
Tgt Ion:	84	Resp:	5947
Ion	Ratio	Lower	Upper
84	100		
49	125.3	95.8	143.6
51	30.8	29.8	44.8
86	60.8	50.8	76.2



#25
2-Butanone
Concen: 0.651 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014307.D
Acq: 27 Dec 2019 14:35

Tgt Ion:	43	Resp:	3112
Ion	Ratio	Lower	Upper
43	100		
72	23.4	21.0	31.4





#28

Bromochloromethane

Concen: 0.487 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

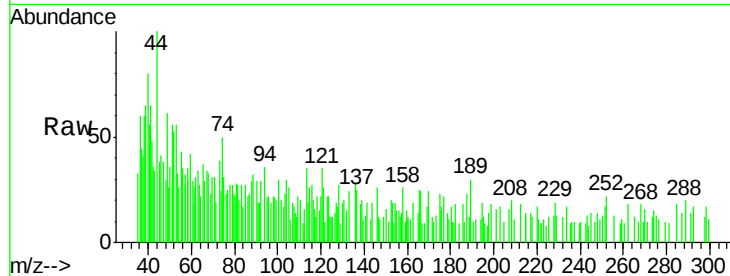
Tgt Ion: 49 Resp: 129

Ion Ratio Lower Upper

49 100

129 78.3 0.0 5.0#

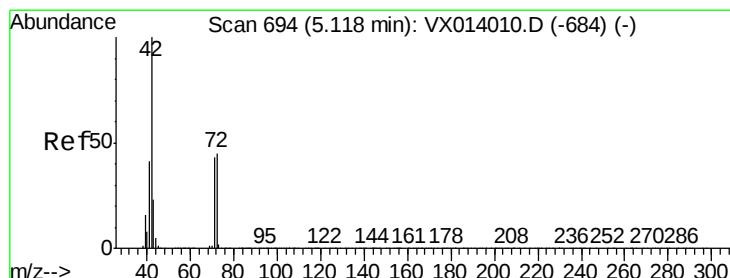
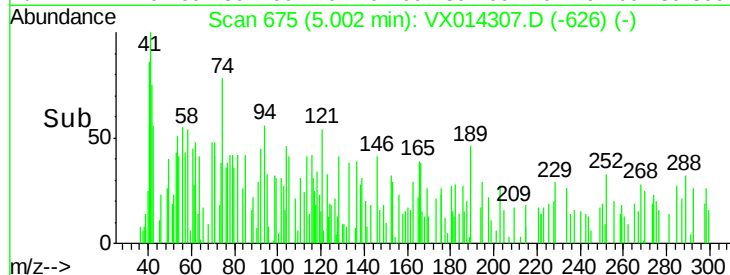
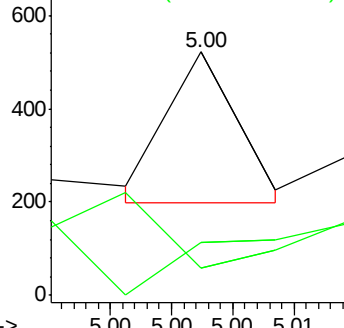
130 0.0 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.219 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

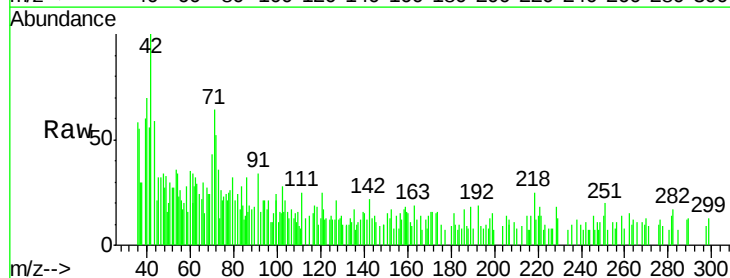
Tgt Ion: 42 Resp: 585

Ion Ratio Lower Upper

42 100

72 108.2 35.8 53.8#

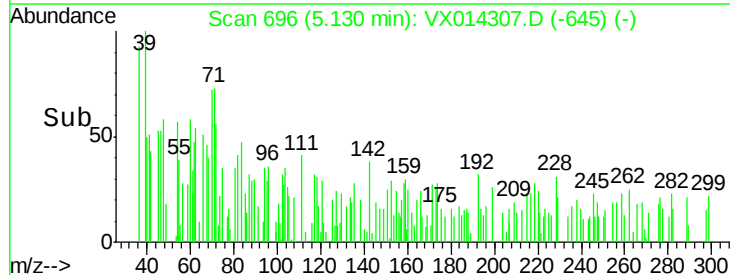
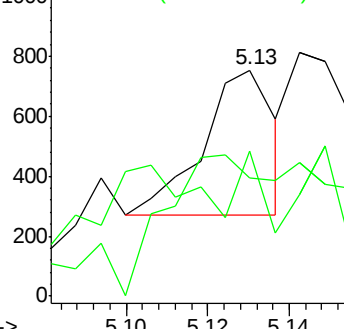
71 0.0 33.6 50.4#

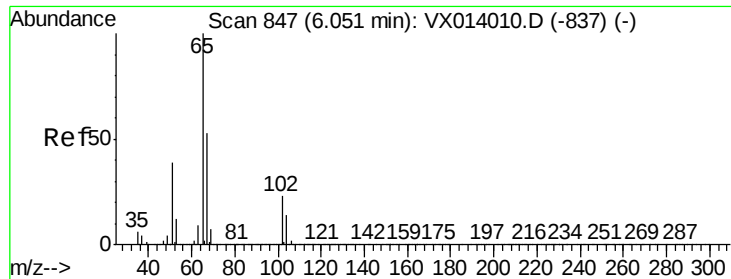


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.280 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

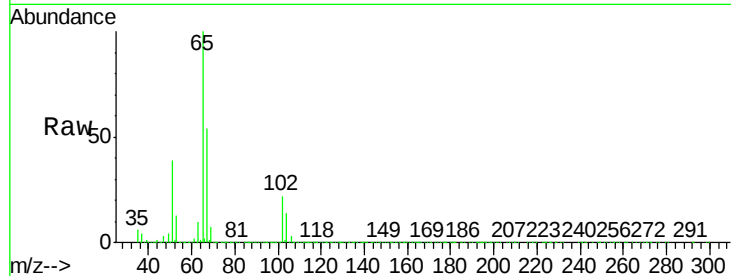
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 65 Resp: 294192

Ion Ratio Lower Upper

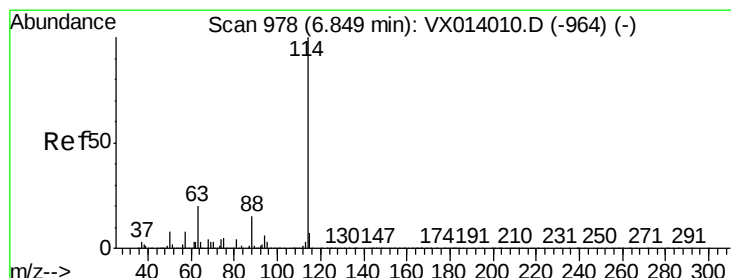
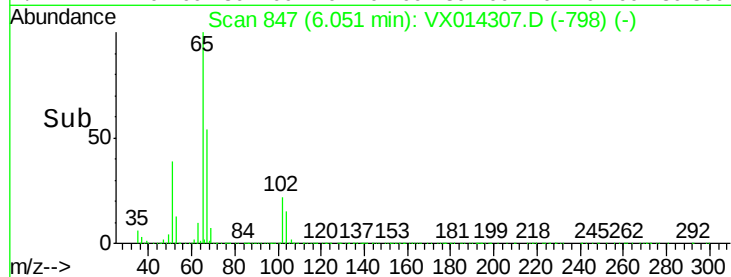
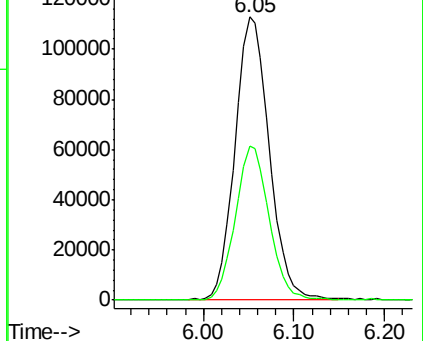
65 100

67 54.1 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

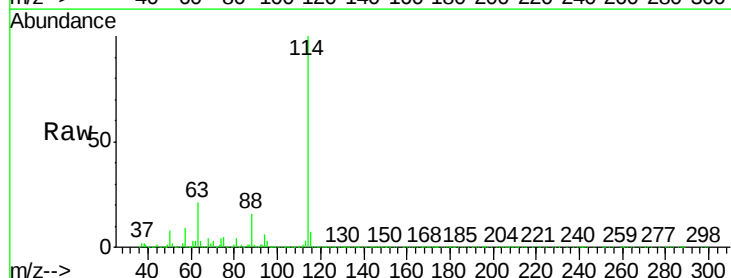
Tgt Ion: 114 Resp: 817568

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

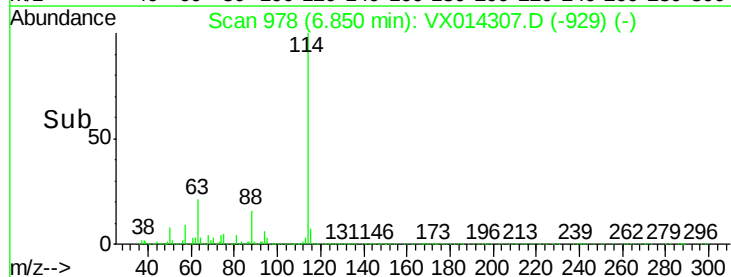
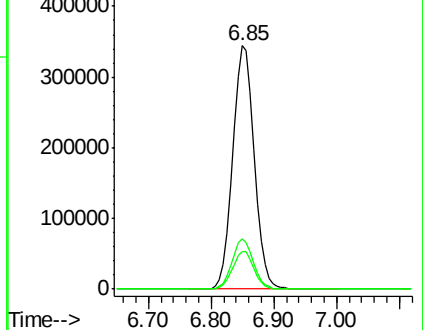
88 15.6 0.0 30.4

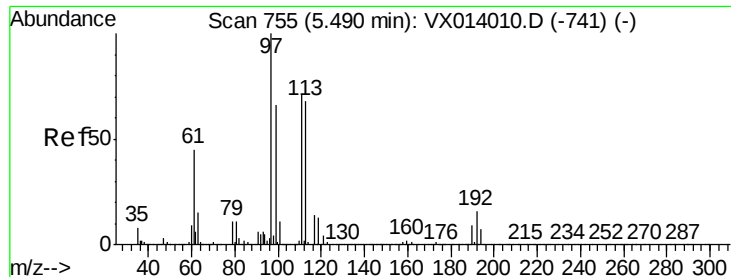


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.275 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

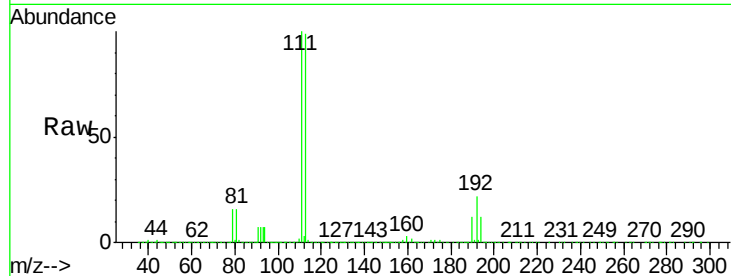
Tgt Ion:113 Resp: 244892

Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

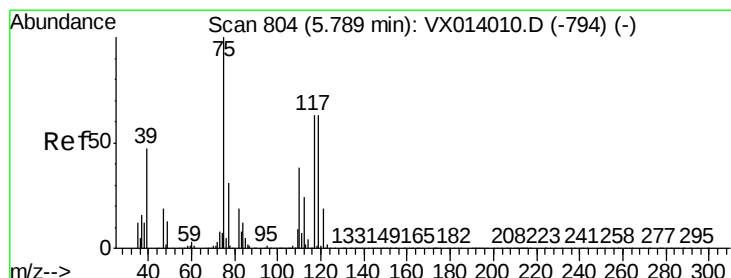
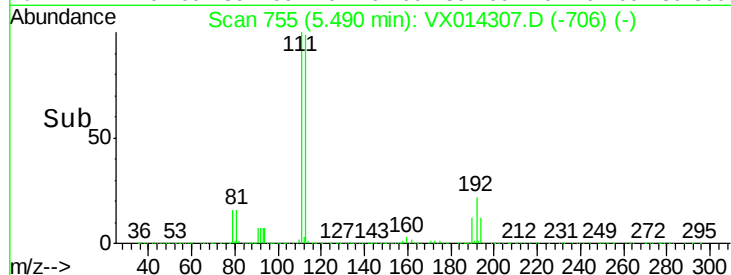
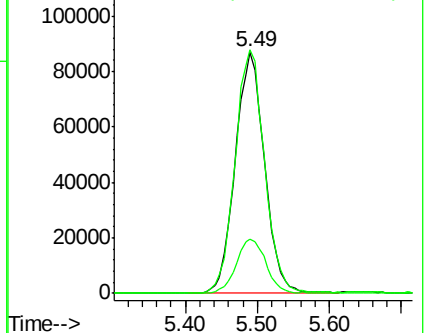
192 23.1 19.3 28.9



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: 4.741 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

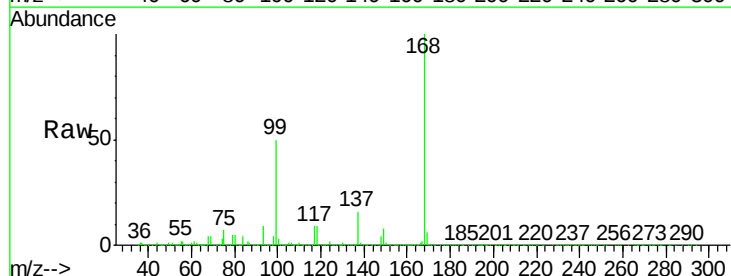
Tgt Ion: 75 Resp: 35568

Ion Ratio Lower Upper

75 100

110 9.7 18.3 54.9#

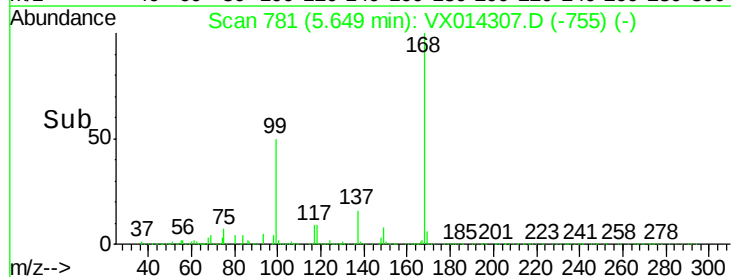
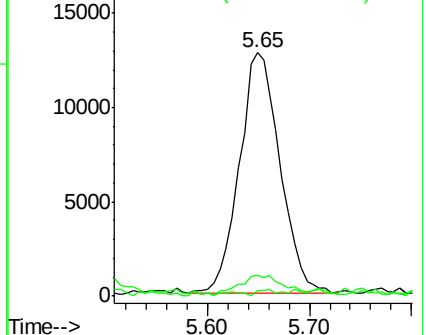
77 1.1 24.8 37.2#

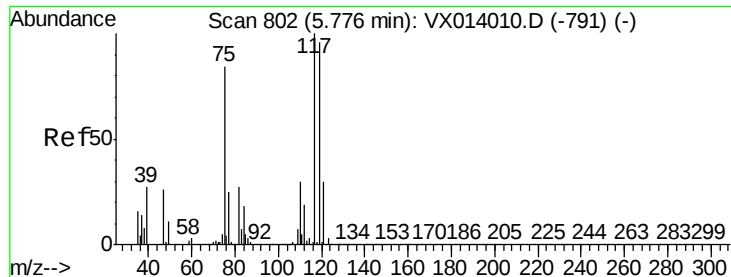


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

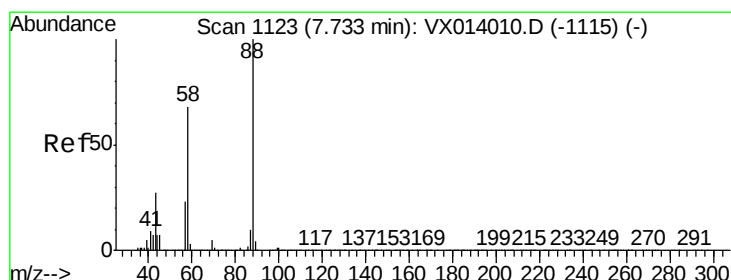
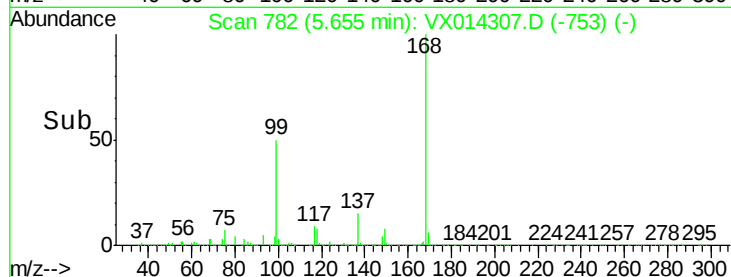
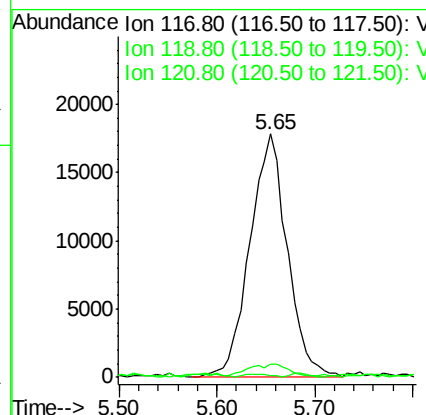
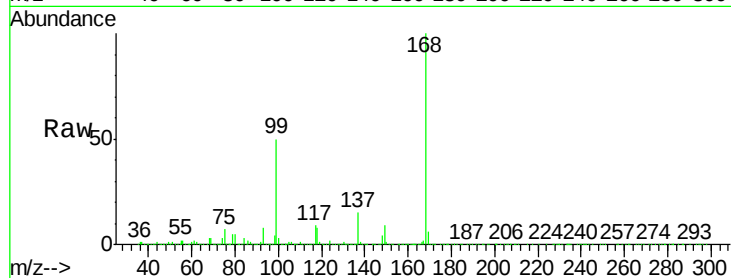




#38
Carbon Tetrachloride
Concen: 6.932 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014307.D
Acq: 27 Dec 2019 14:35

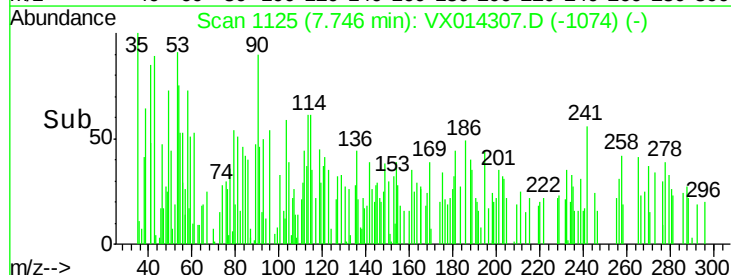
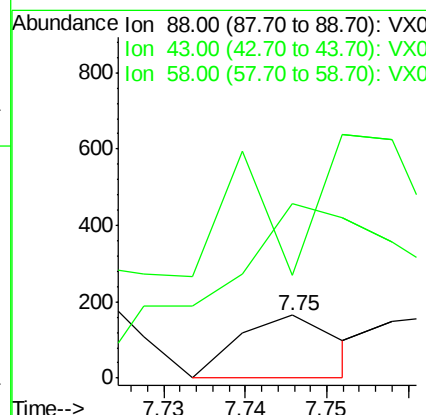
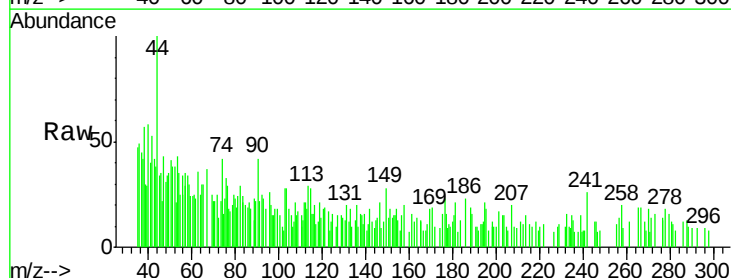
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-WATER-REF-4

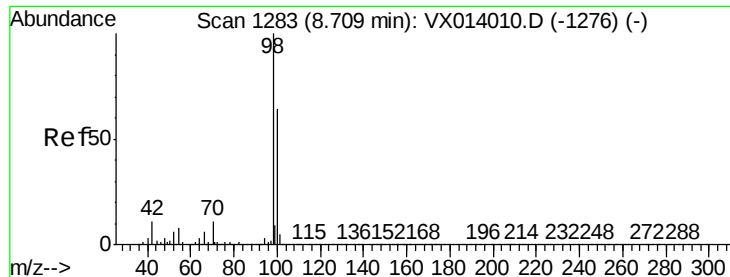
Tgt Ion: 117 Resp: 47375
Ion Ratio Lower Upper
117 100
119 4.5 76.2 114.4#
121 0.6 23.6 35.4#



#49
1,4-Dioxane
Concen: 1.010 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.01 min
Lab File: VX014307.D
Acq: 27 Dec 2019 14:35

Tgt Ion: 88 Resp: 138
Ion Ratio Lower Upper
88 100
43 386.2 26.5 39.7#
58 793.5 56.8 85.2#





#50

Toluene-d8

Concen: 50.137 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

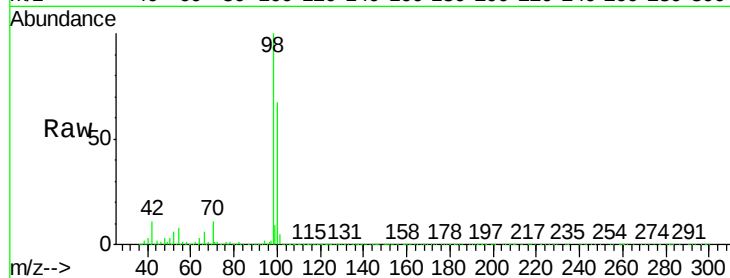
STORAGE-BLANK-WATER-REF-4

Tgt Ion: 98 Resp: 970106

Ion Ratio Lower Upper

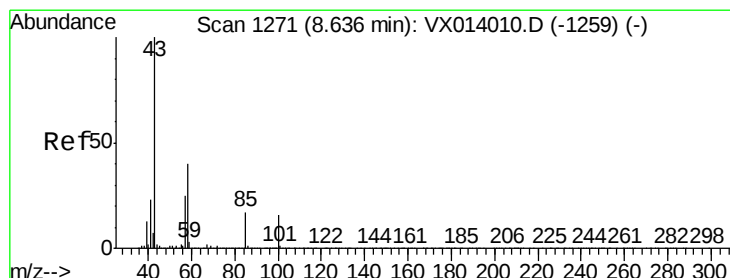
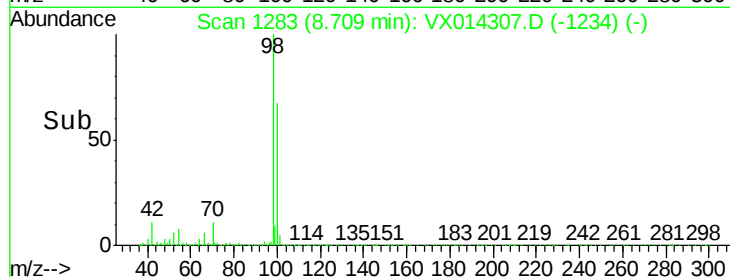
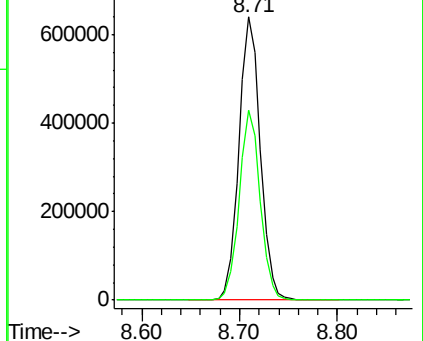
98 100

100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.248 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014307.D

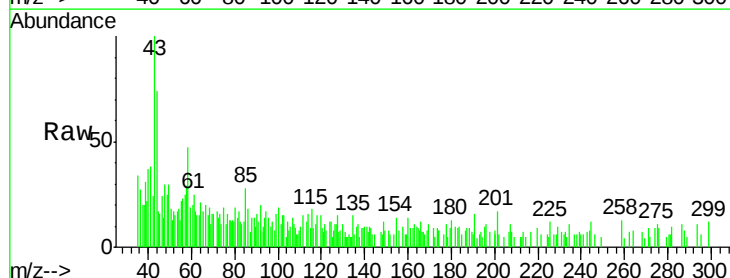
Acq: 27 Dec 2019 14:35

Tgt Ion: 43 Resp: 2135

Ion Ratio Lower Upper

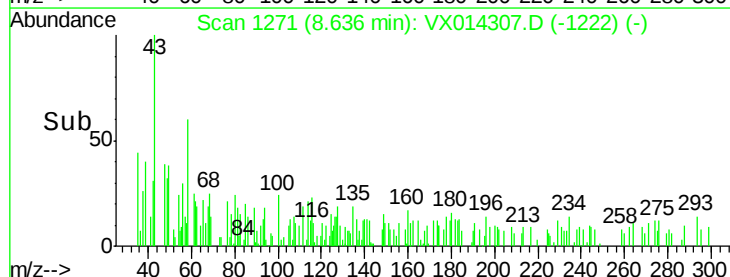
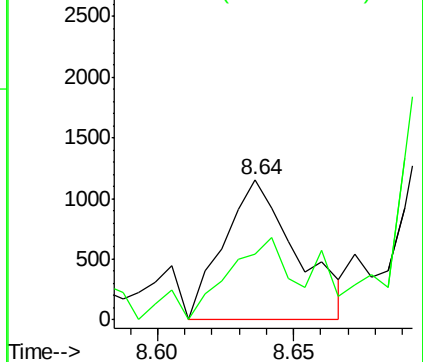
43 100

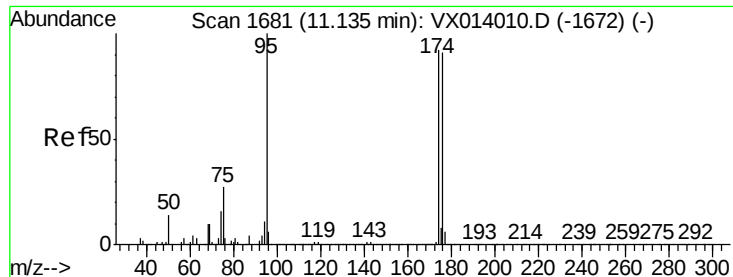
58 48.9 32.2 48.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.951 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

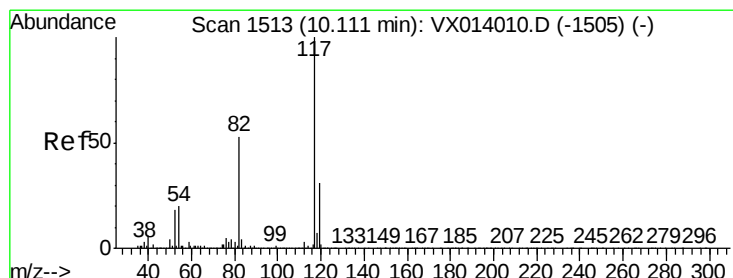
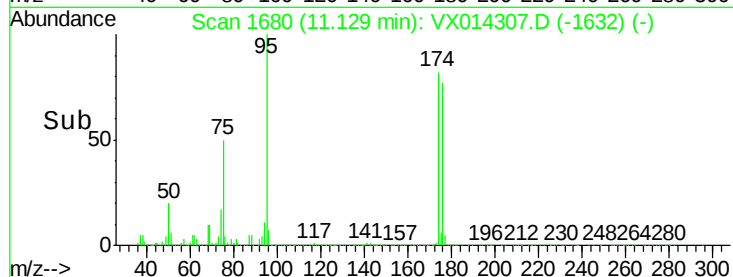
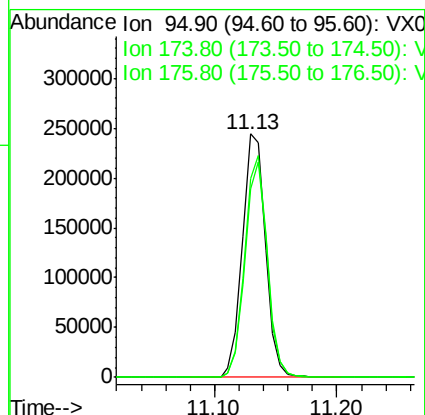
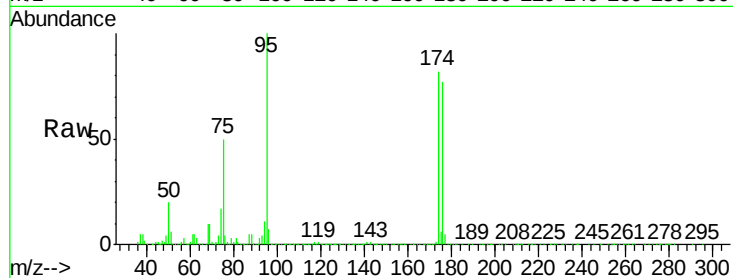
Tgt Ion: 95 Resp: 317934

Ion Ratio Lower Upper

95 100

174 89.8 0.0 175.8

176 85.7 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: VX014307.D

Acq: 27 Dec 2019 14:35

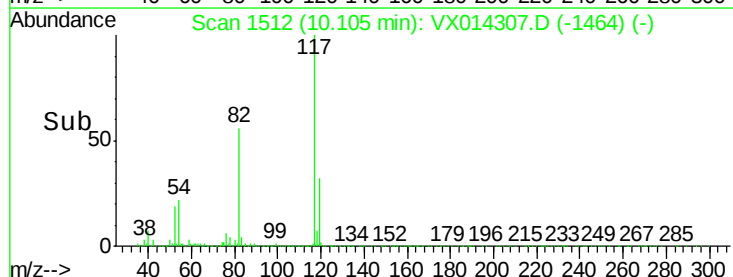
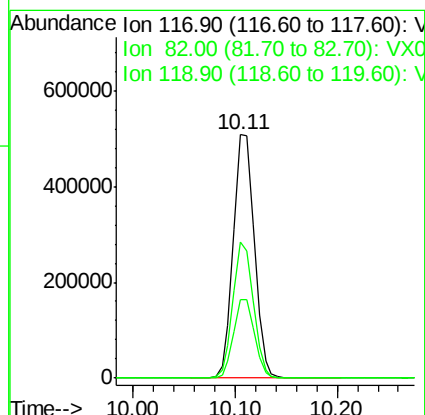
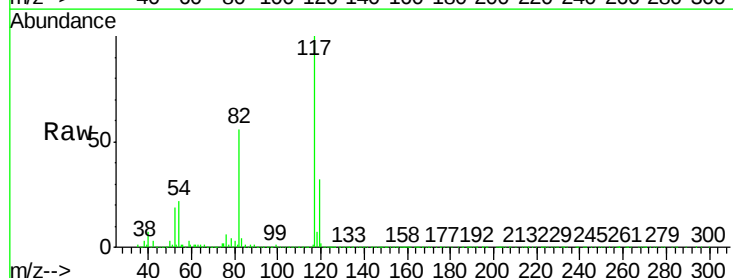
Tgt Ion: 117 Resp: 723118

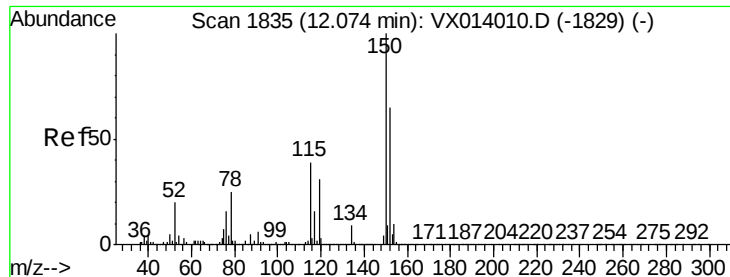
Ion Ratio Lower Upper

117 100

82 55.6 42.2 63.4

119 32.4 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: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

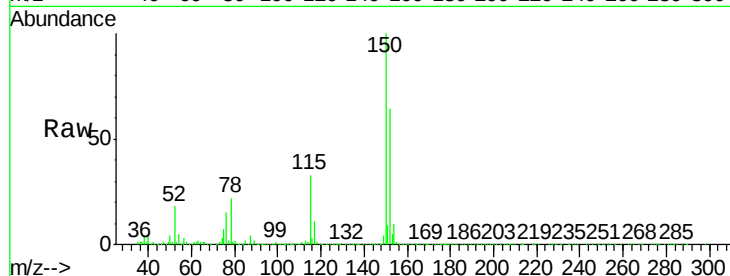
Tgt Ion: 152 Resp: 312236

Ion Ratio Lower Upper

152 100

115 54.6 38.3 114.9

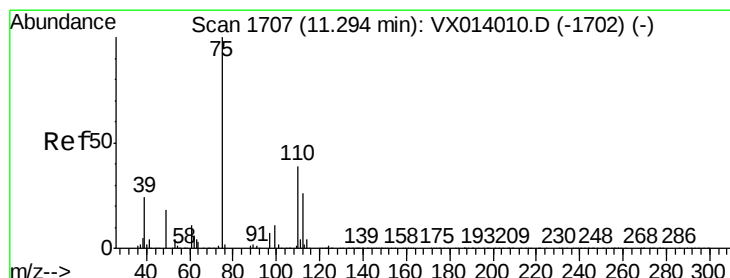
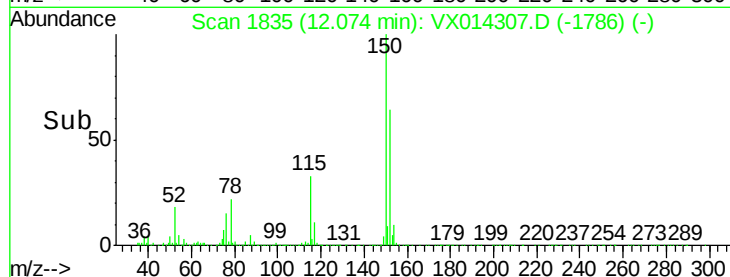
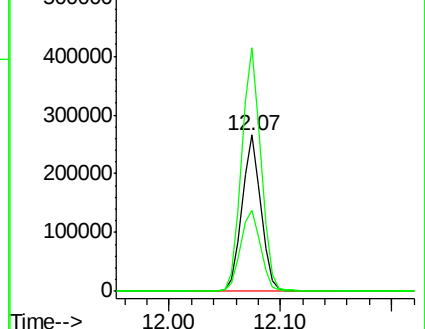
150 158.6 0.0 345.4



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: 23.041 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014307.D

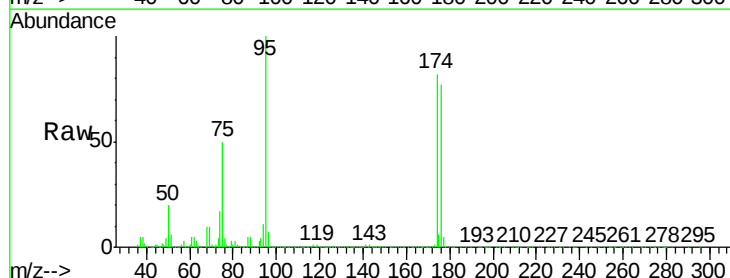
Acq: 27 Dec 2019 14:35

Tgt Ion: 75 Resp: 156187

Ion Ratio Lower Upper

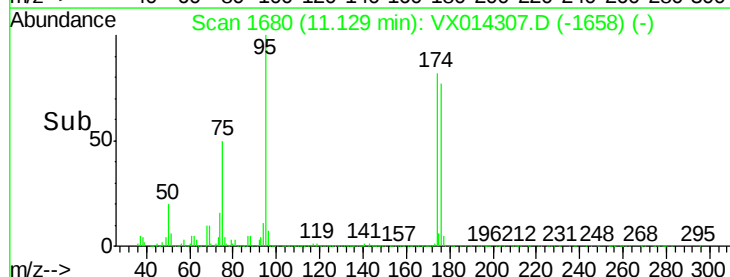
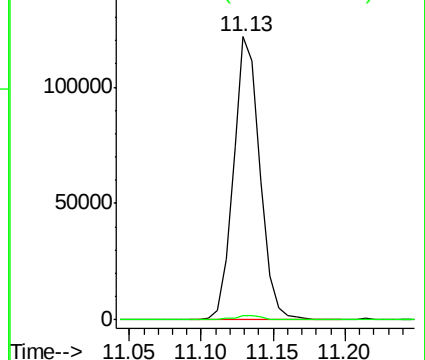
75 100

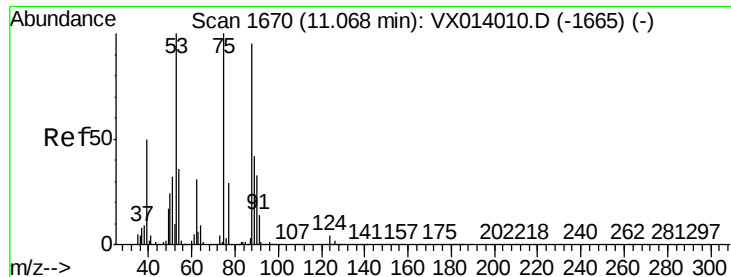
77 1.5 19.3 57.8#



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: 65.034 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-WATER-REF-4

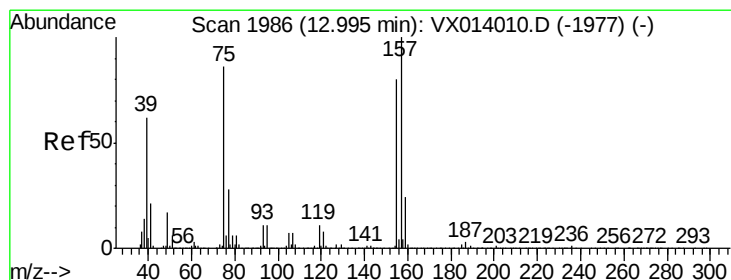
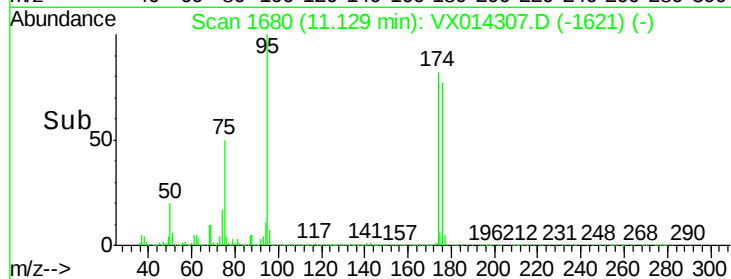
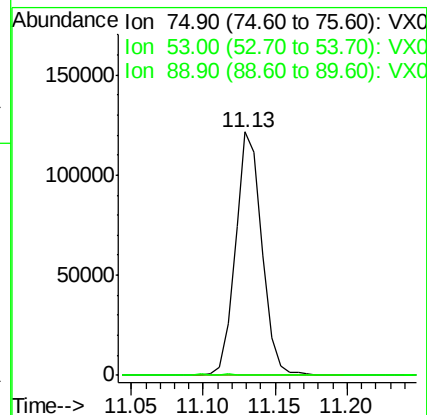
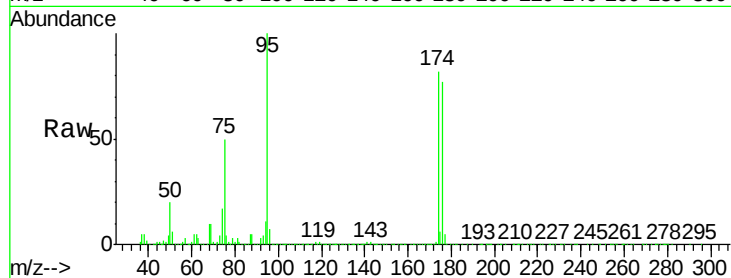
Tgt Ion: 75 Resp: 156187

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.2 34.6 51.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.207 ug/l

RT: 12.81 min Scan# 1955

Delta R.T. -0.19 min

Lab File: VX014307.D

Acq: 27 Dec 2019 14:35

Tgt Ion: 75 Resp: 349

Ion Ratio Lower Upper

75 100

155 81.9 46.9 140.6

157 69.9 60.8 182.4

