

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014280.D
 Acq On : 26 Dec 2019 19:27
 Operator : JC/SP
 Sample : K6420-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PW

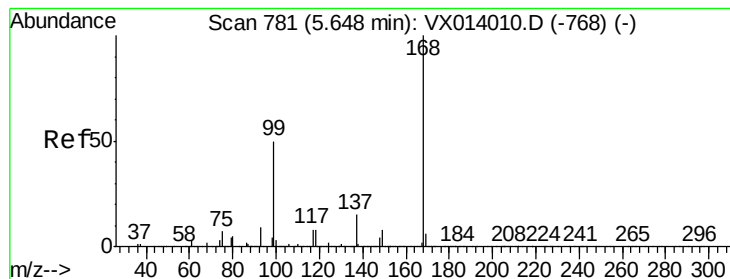
Quant Time: Dec 27 06:05:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	521456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	819147	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	730541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	317615	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	291809	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
35) Dibromofluoromethane	5.49	113	243716	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	
50) Toluene-d8	8.71	98	962611	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
62) 4-Bromofluorobenzene	11.13	95	326557	46.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.16%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1404	0.299	ug/l #	75
6) Chloroethane	1.67	64	1677	0.411	ug/l #	71
10) Methyl Iodide	2.51	142	488	2.692	ug/l #	1
11) Tert butyl alcohol	3.03	59	2510	1.966	ug/l #	72
13) Acrolein	2.28	56	514	0.703	ug/l #	51
16) Acetone	2.43	43	7103	1.851	ug/l #	78
17) Carbon Disulfide	2.56	76	854	0.811	ug/l #	75
19) Methyl tert-butyl Ether	3.18	73	11072	0.672	ug/l #	85
27) cis-1,2-Dichloroethene	4.59	96	2269	0.363	ug/l	67
28) Bromochloromethane	5.01	49	174	0.499	ug/l #	91
30) Chloroform	5.20	83	14566	1.547	ug/l	98
36) 1,1-Dichloropropene	5.65	75	36607	4.870	ug/l #	52
38) Carbon Tetrachloride	5.65	117	46781	6.832	ug/l #	15
44) Trichloroethene	7.21	130	4359	0.682	ug/l	74
47) Bromodichloromethane	7.89	83	7135	0.967	ug/l #	98
49) 1,4-Dioxane	7.73	88	236	1.724	ug/l #	1
60) Dibromochloromethane	9.57	129	3790	0.651	ug/l	81
64) Tetrachloroethene	9.34	164	5754	0.890	ug/l #	94
76) 1,2,3-Trichloropropane	11.13	75	159671	23.156	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	159671	65.359	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	390	0.227	ug/l #	54

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampled :

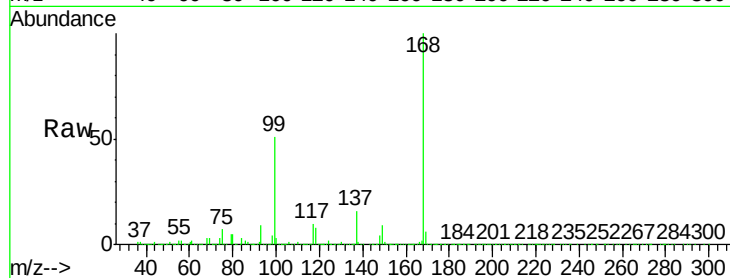
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Tgt Ion: 168 Resp: 521456

Ion Ratio Lower Upper

168 100

99 50.8 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

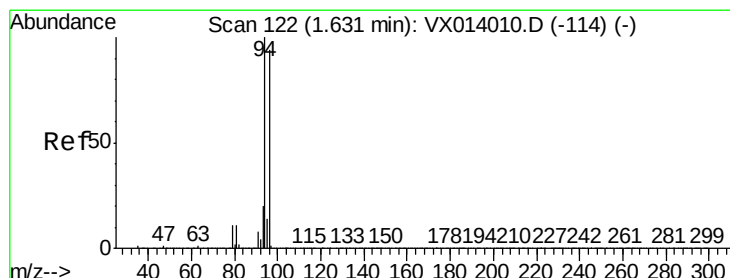
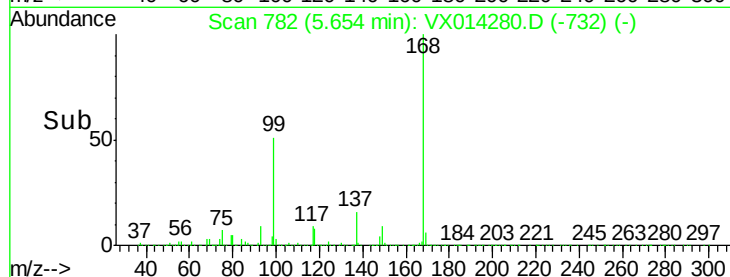
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.299 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014280.D

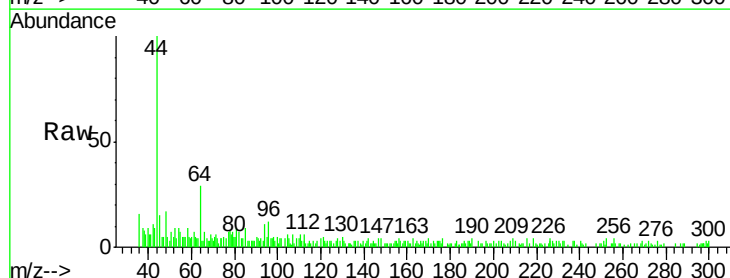
Acq: 26 Dec 2019 19:27

Tgt Ion: 94 Resp: 1404

Ion Ratio Lower Upper

94 100

96 118.1 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

600

500

400

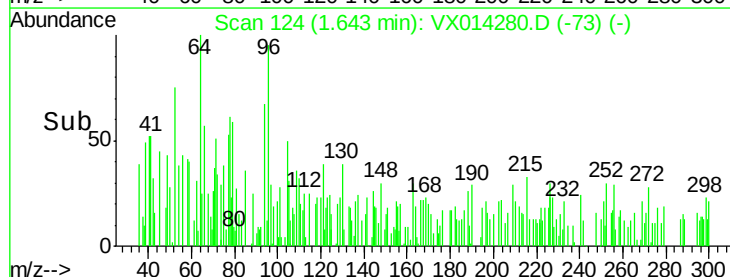
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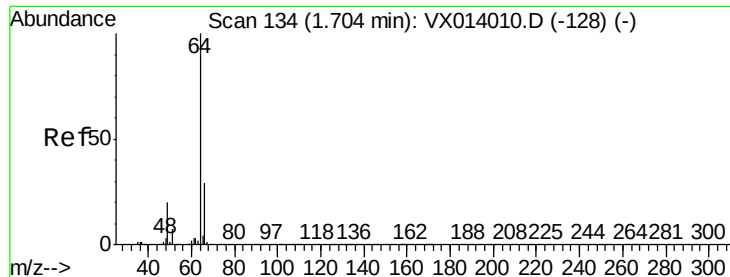
200

100

0

Time-->





#6

Chloroethane

Concen: 0.411 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.03 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampled :

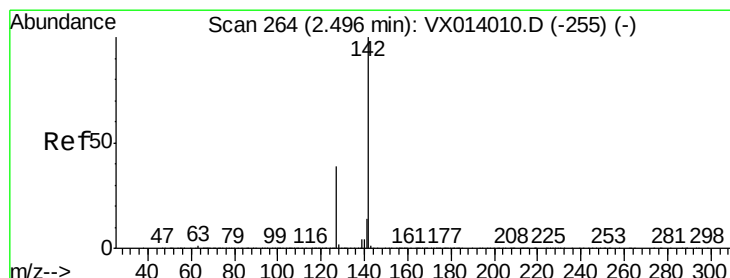
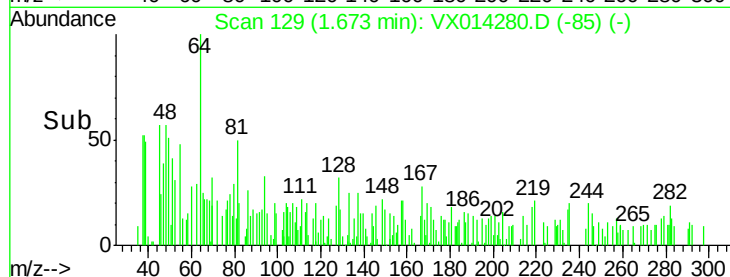
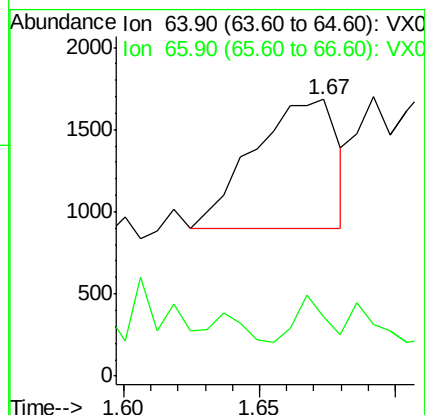
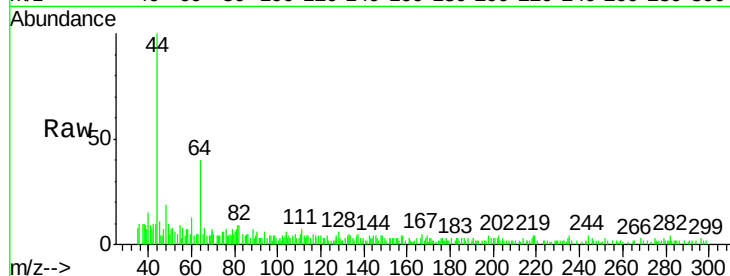
PW

Tgt Ion: 64 Resp: 1677

Ion Ratio Lower Upper

64 100

66 13.8 23.4 35.2#



#10

Methyl Iodide

Concen: 2.692 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

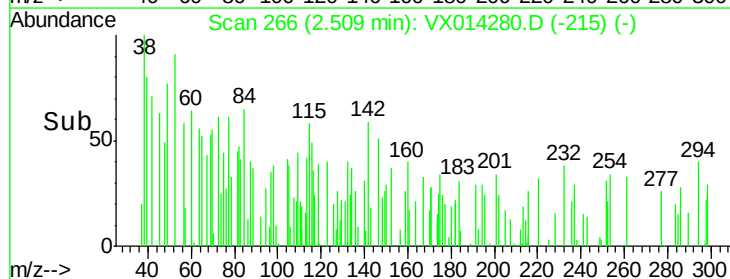
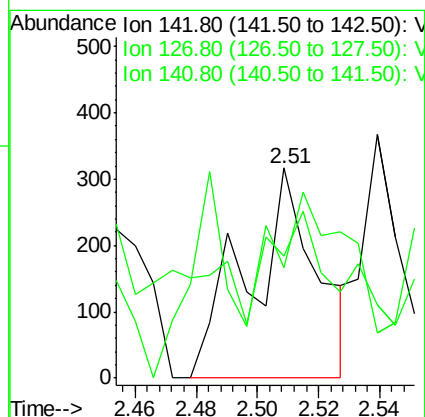
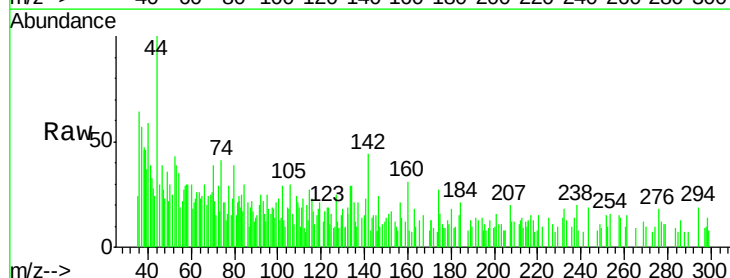
Tgt Ion: 142 Resp: 488

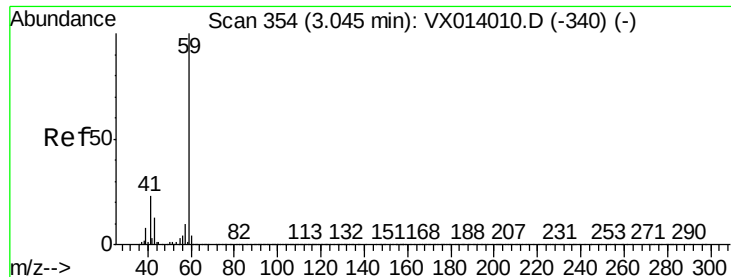
Ion Ratio Lower Upper

142 100

127 108.4 31.6 47.4#

141 67.6 11.6 17.4#

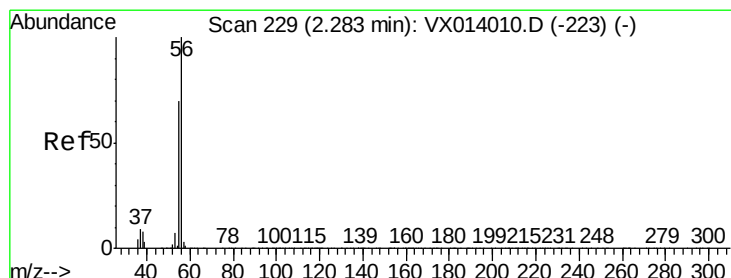
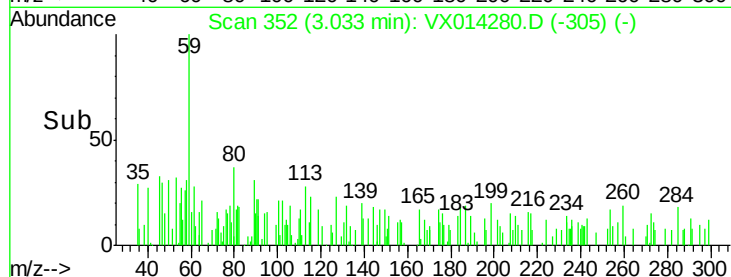
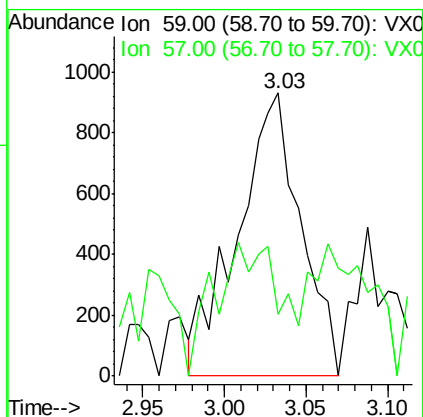
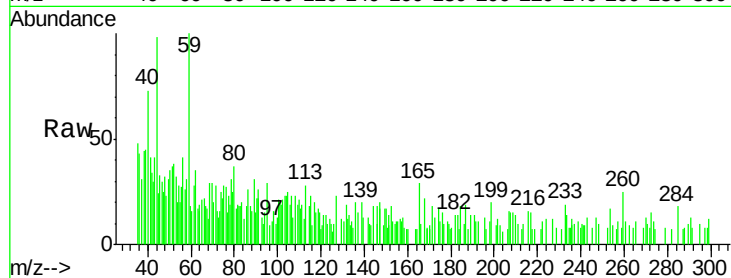




#11
Tert butyl alcohol
Concen: 1.966 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX014280.D
Acq: 26 Dec 2019 19:27

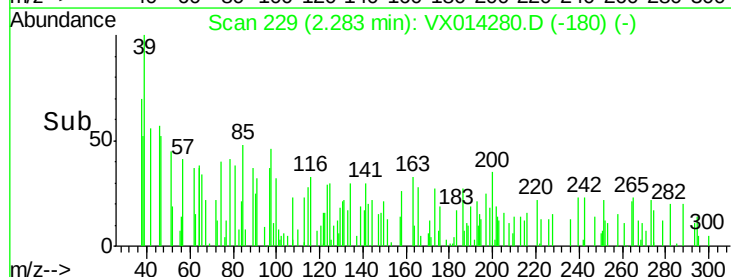
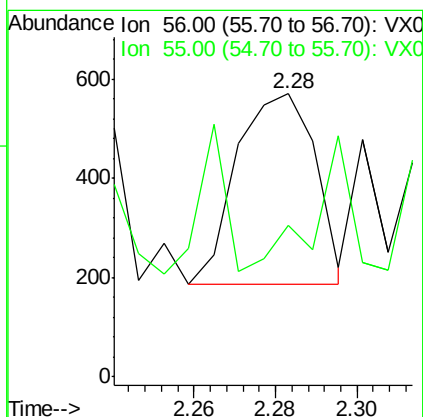
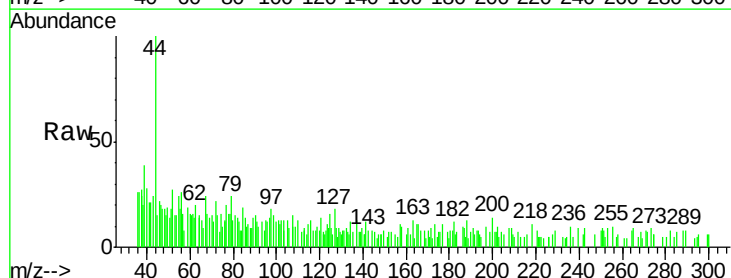
Instrument :
MSVOA_X
ClientSampled :
PW

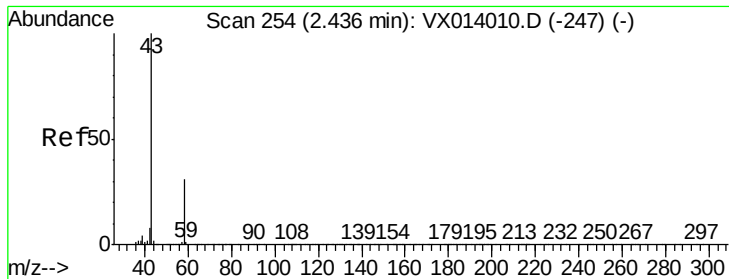
Tgt Ion: 59 Resp: 2510
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#13
Acrolein
Concen: 0.703 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014280.D
Acq: 26 Dec 2019 19:27

Tgt Ion: 56 Resp: 514
Ion Ratio Lower Upper
56 100
55 30.4 56.9 85.3#

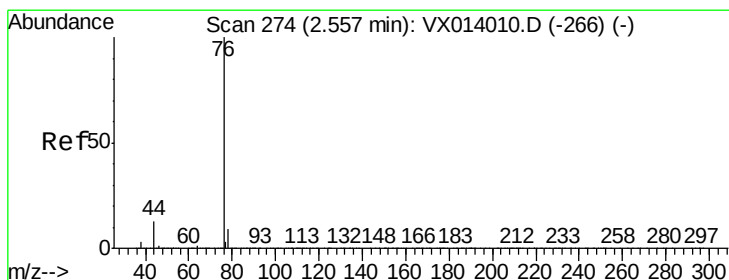
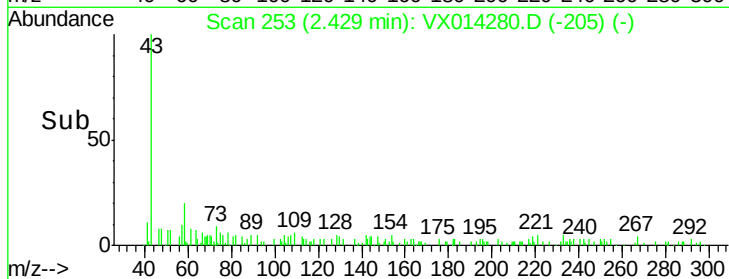
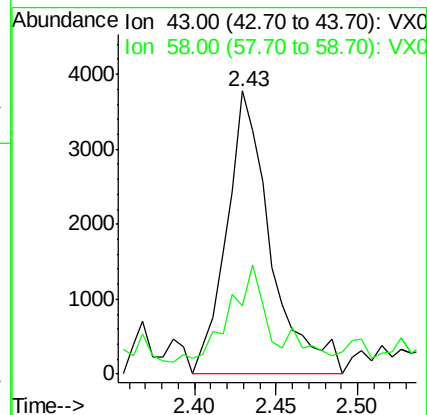
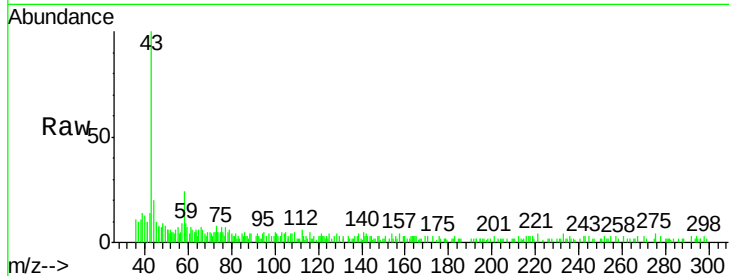




#16
Acetone
Concen: 1.851 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014280.D
Acq: 26 Dec 2019 19:27

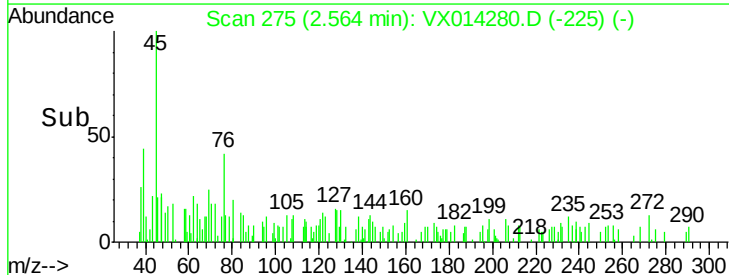
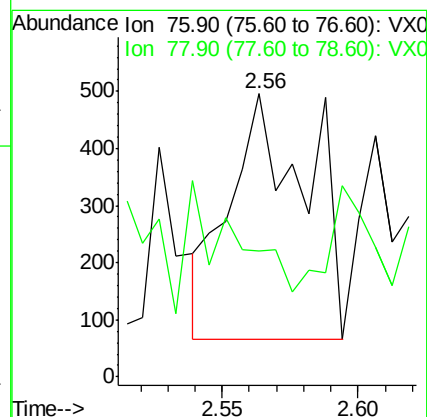
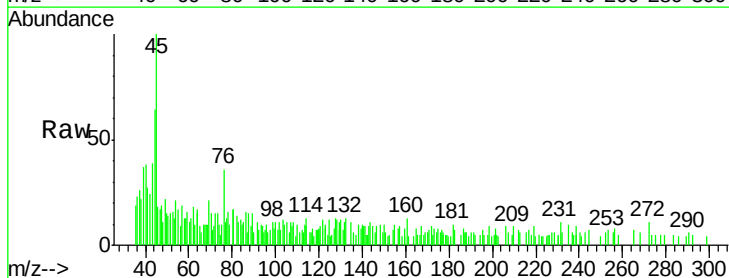
Instrument :
MSVOA_X
ClientSampleId :
PW

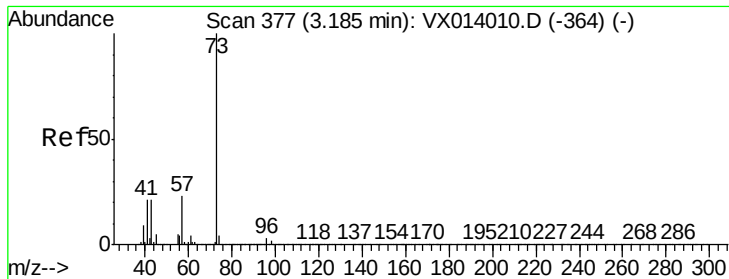
Tgt Ion: 43 Resp: 7103
Ion Ratio Lower Upper
43 100
58 18.9 24.9 37.3#



#17
Carbon Disulfide
Concen: 0.811 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014280.D
Acq: 26 Dec 2019 19:27

Tgt Ion: 76 Resp: 854
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



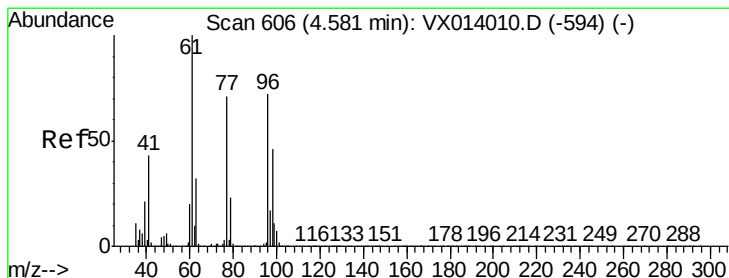
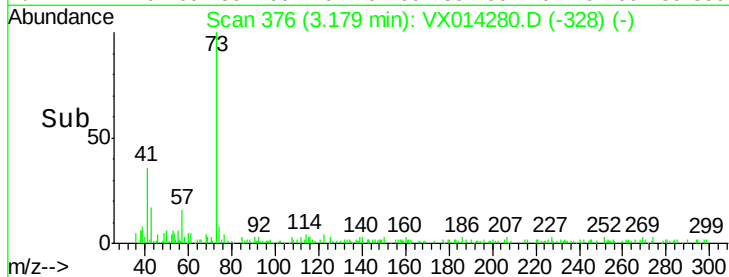
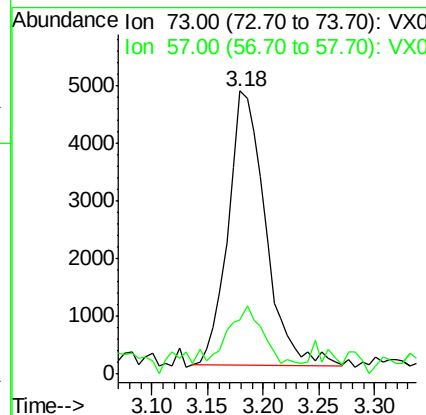
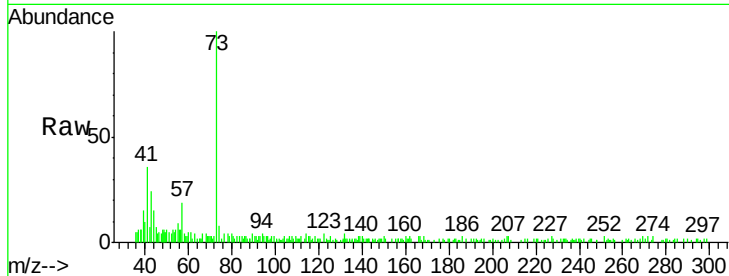


#19

Methyl tert-butyl Ether
Concen: 0.672 ug/l
RT: 3.18 min Scan# 376
Delta R.T. -0.01 min
Lab File: VX014280.D
Acq: 26 Dec 2019 19:27

Instrument :
MSVOA_X
ClientSampled :
PW

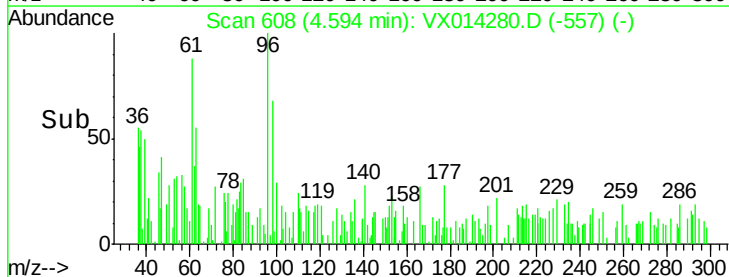
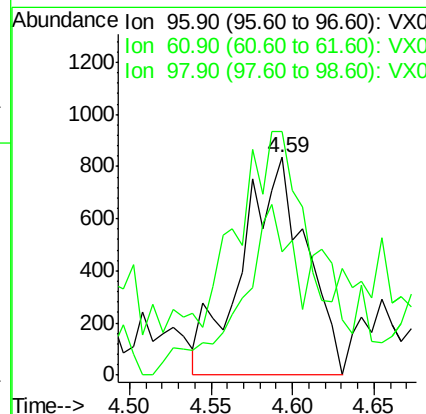
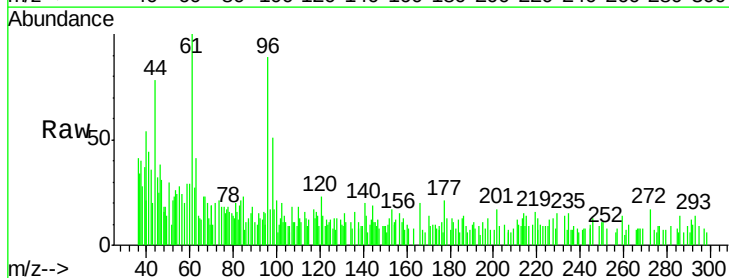
Tgt Ion: 73 Resp: 11072
Ion Ratio Lower Upper
73 100
57 16.1 18.8 28.2#

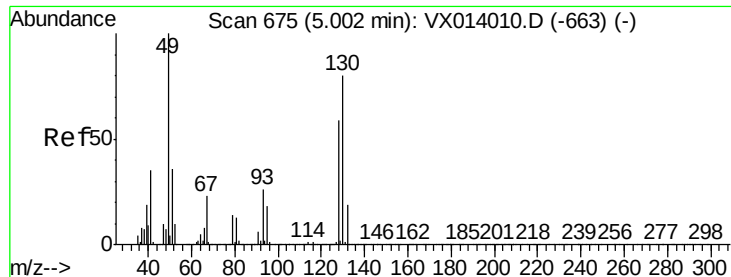


#27

cis-1,2-Dichloroethene
Concen: 0.363 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX014280.D
Acq: 26 Dec 2019 19:27

Tgt Ion: 96 Resp: 2269
Ion Ratio Lower Upper
96 100
61 85.2 0.0 288.4
98 66.0 0.0 129.6





#28

Bromochloromethane

Concen: 0.499 ug/l

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :
MSVOA_X
ClientSampled :
PW

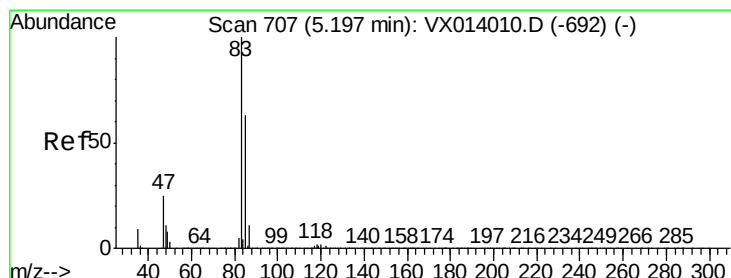
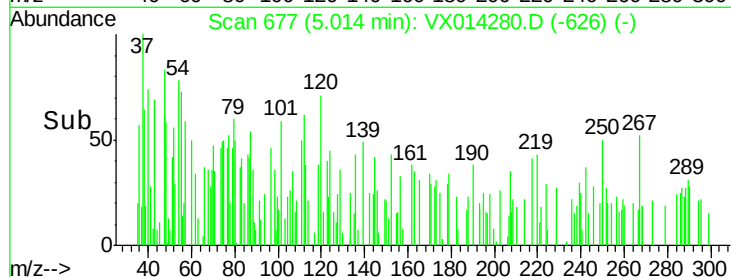
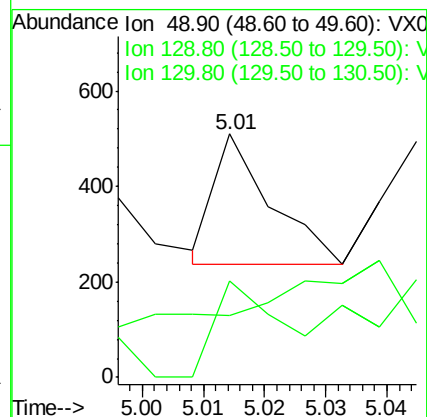
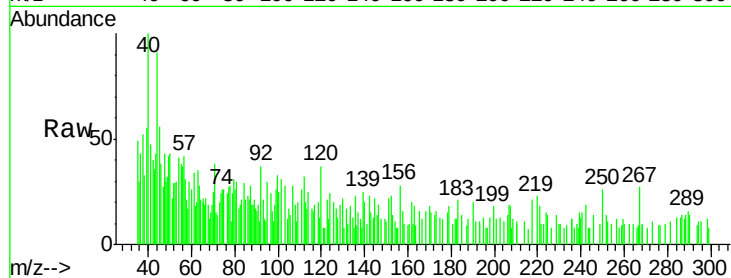
Tgt Ion: 49 Resp: 174

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 88.5 64.6 97.0



#30

Chloroform

Concen: 1.547 ug/l

RT: 5.20 min Scan# 707

Delta R.T. 0.00 min

Lab File: VX014280.D

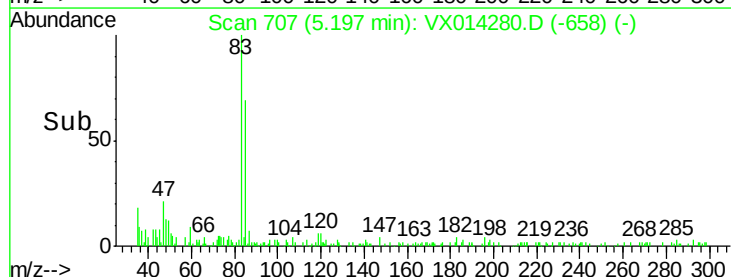
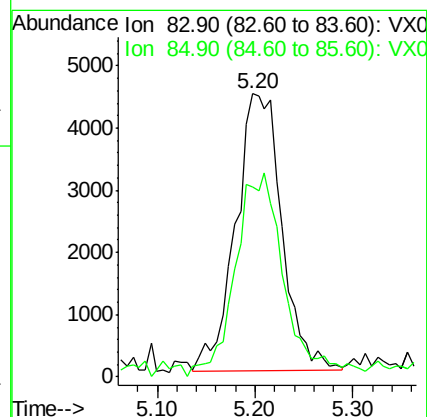
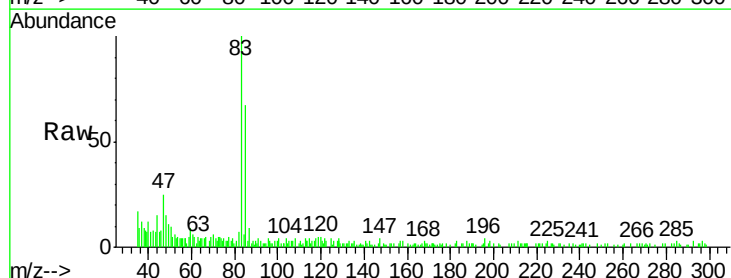
Acq: 26 Dec 2019 19:27

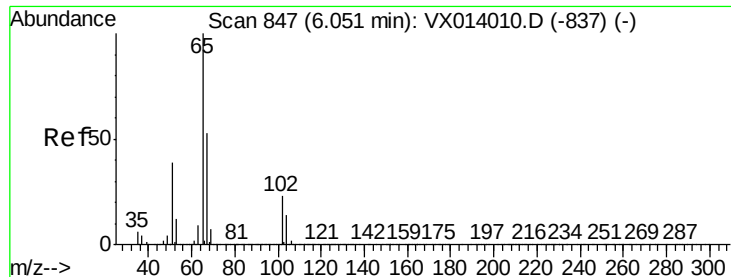
Tgt Ion: 83 Resp: 14566

Ion Ratio Lower Upper

83 100

85 65.4 50.8 76.2

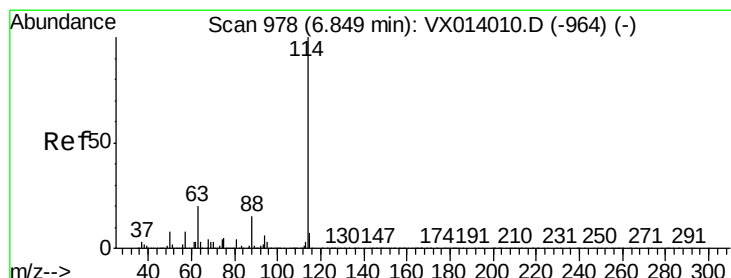
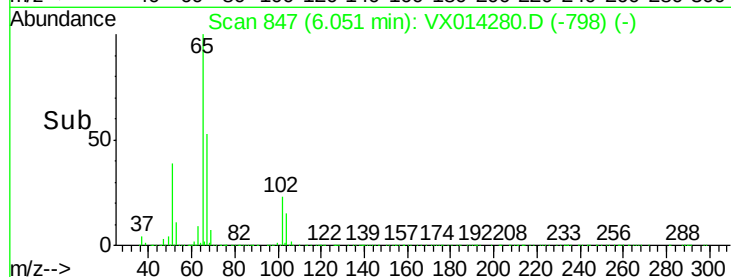
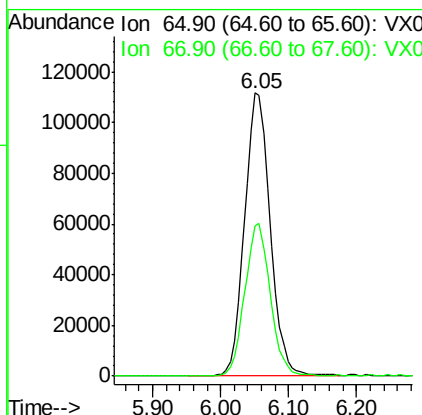
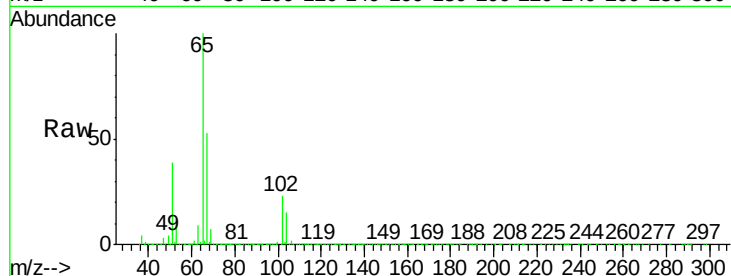




#33
 1,2-Dichloroethane-d4
 Concen: 49.376 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014280.D
 Acq: 26 Dec 2019 19:27

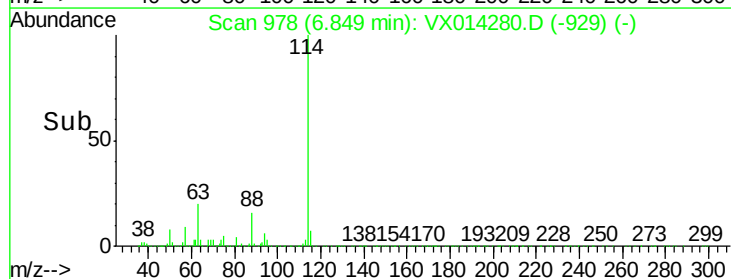
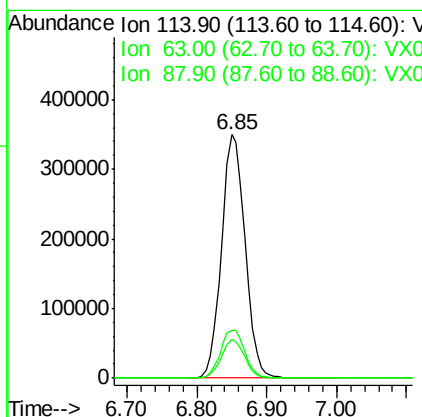
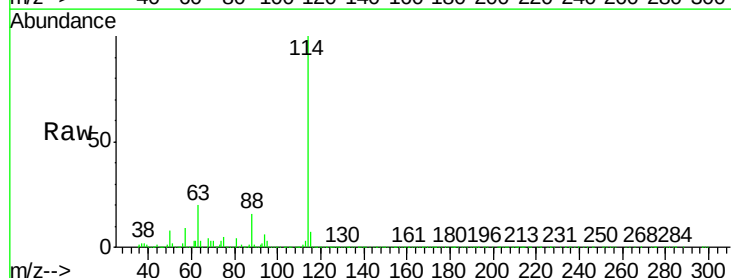
Instrument :
 MSVOA_X
 ClientSampleId :
 PW

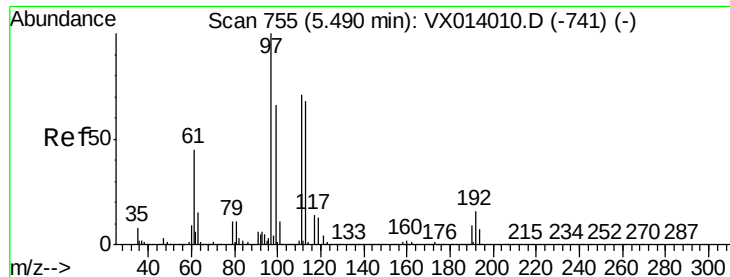
Tgt Ion: 65 Resp: 291809
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014280.D
 Acq: 26 Dec 2019 19:27

Tgt Ion: 114 Resp: 819147
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.8
 88 16.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 48.944 ug/l

RT: 5.49 min Scan# 755

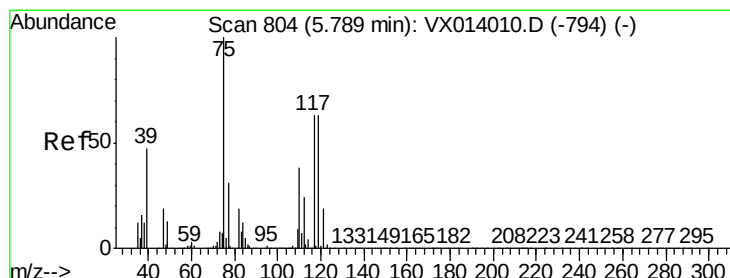
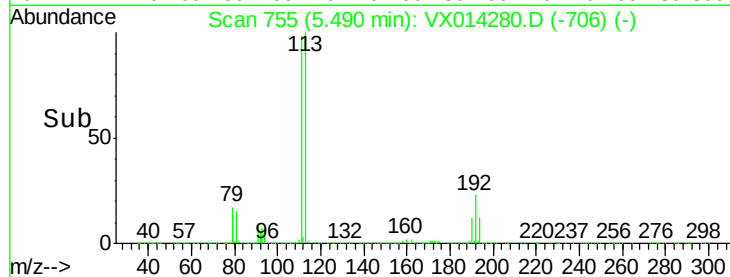
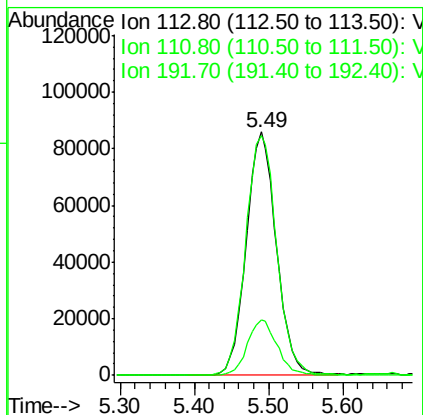
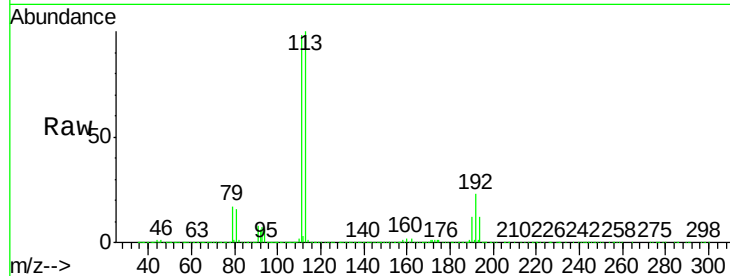
Delta R.T. 0.00 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :
MSVOA_X
ClientSampleId :
PW

Tgt Ion:	113	Resp:	243716
Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.0	123.0
192	22.8	19.3	28.9



#36

1,1-Dichloropropene

Concen: 4.870 ug/l

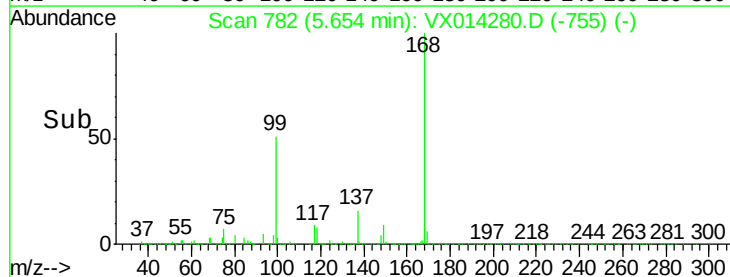
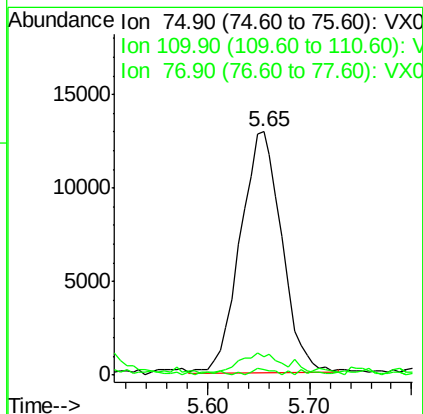
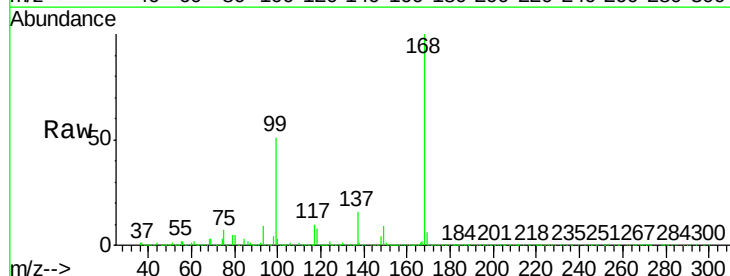
RT: 5.65 min Scan# 782

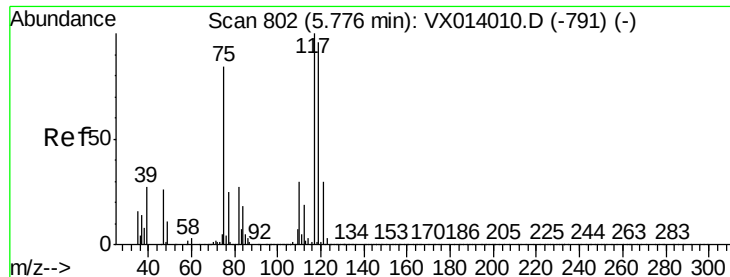
Delta R.T. -0.13 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Tgt Ion:	75	Resp:	36607
Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.3	54.9#
77	1.4	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.832 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampled :

PW

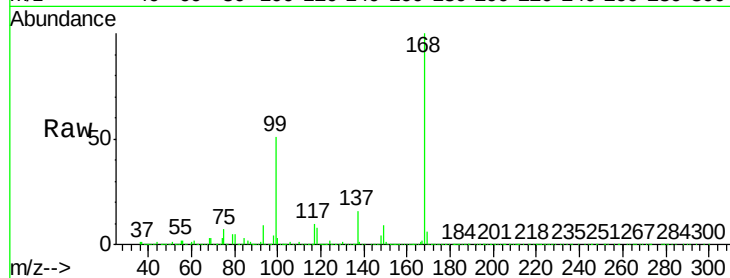
Tgt Ion:117 Resp: 46781

Ion Ratio Lower Upper

117 100

119 2.9 76.2 114.4#

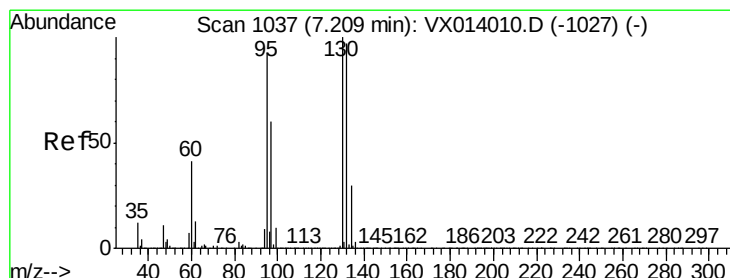
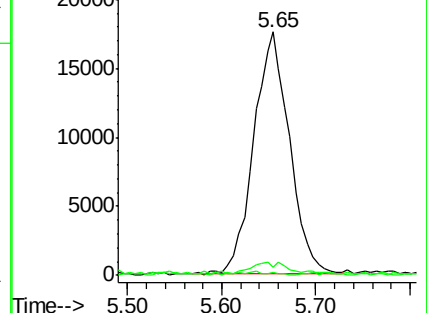
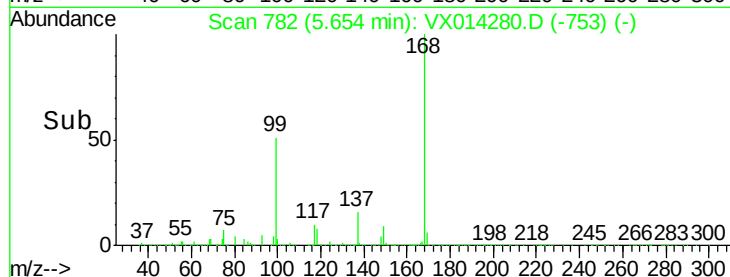
121 0.6 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.682 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014280.D

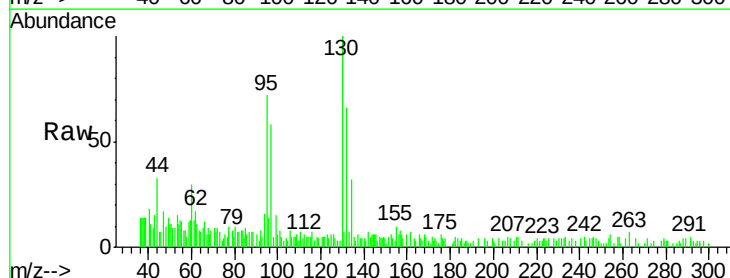
Acq: 26 Dec 2019 19:27

Tgt Ion:130 Resp: 4359

Ion Ratio Lower Upper

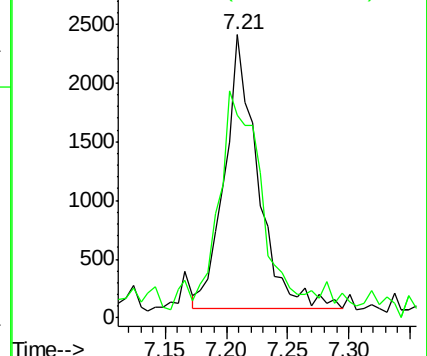
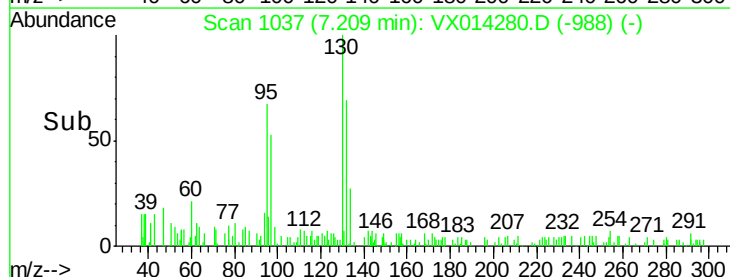
130 100

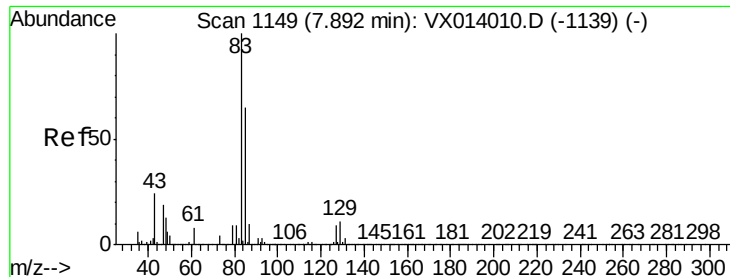
95 67.8 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#47

Bromodichloromethane

Concen: 0.967 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

PW

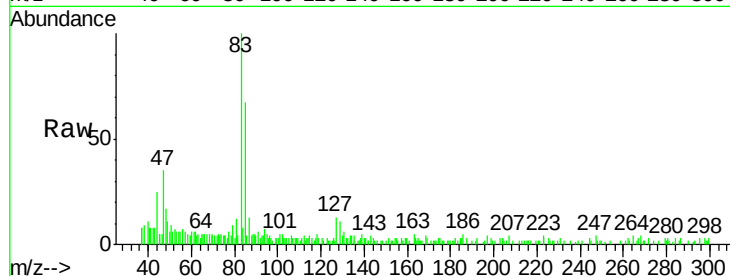
Tgt Ion: 83 Resp: 7135

Ion Ratio Lower Upper

83 100

85 63.5 51.8 77.8

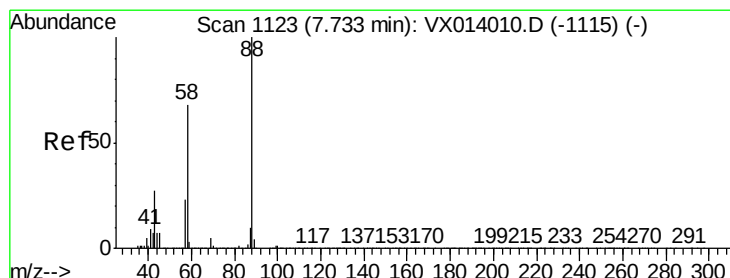
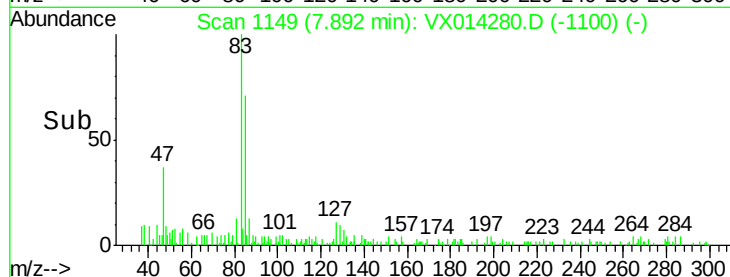
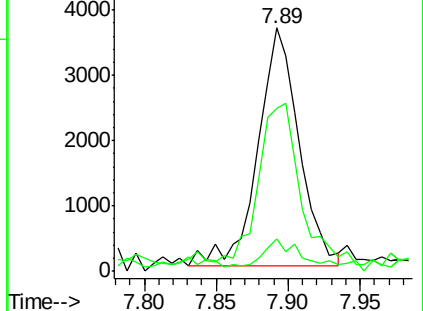
127 10.5 7.0 10.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#49

1,4-Dioxane

Concen: 1.724 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

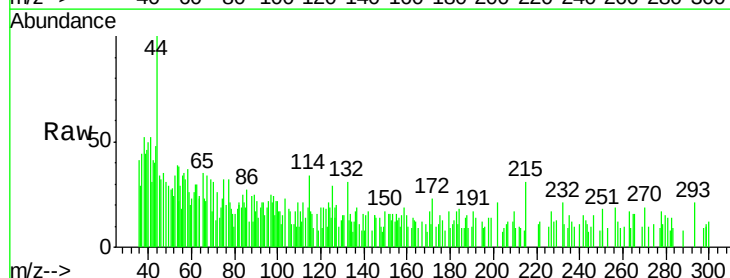
Tgt Ion: 88 Resp: 236

Ion Ratio Lower Upper

88 100

43 268.2 26.5 39.7#

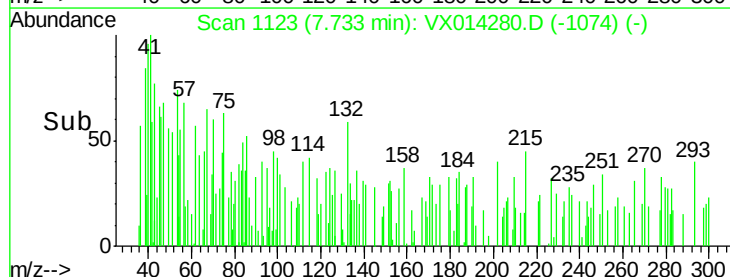
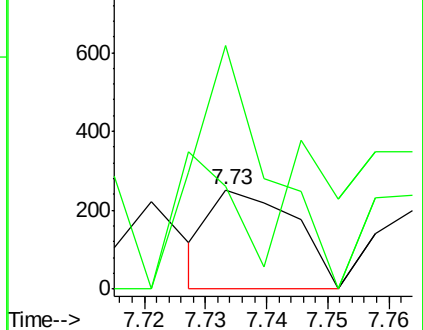
58 103.0 56.8 85.2#

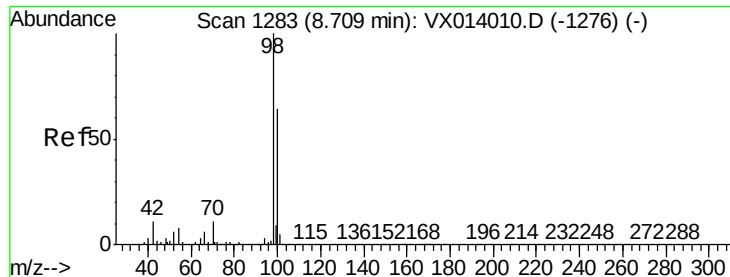


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.654 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

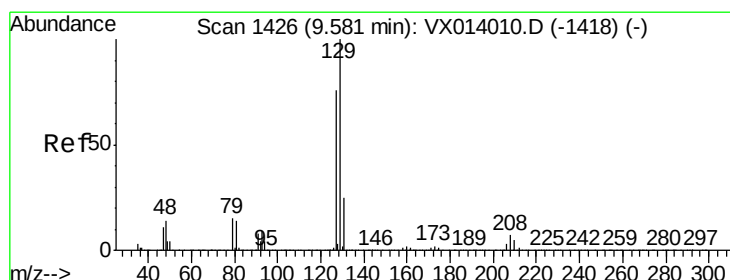
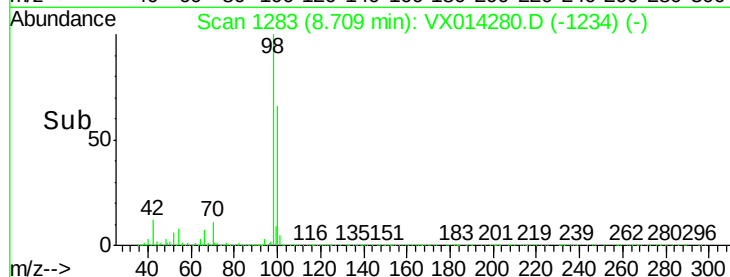
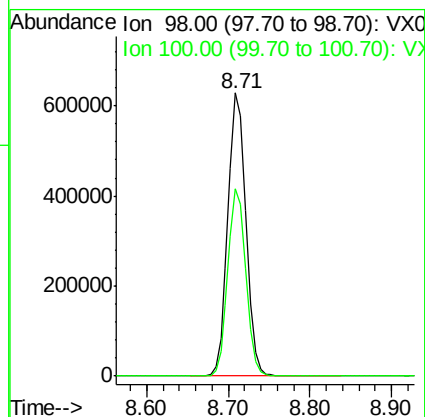
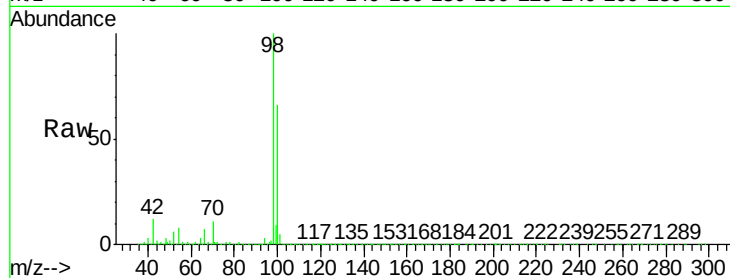
PW

Tgt Ion: 98 Resp: 962611

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#60

Dibromochloromethane

Concen: 0.651 ug/l

RT: 9.57 min Scan# 1425

Delta R.T. -0.01 min

Lab File: VX014280.D

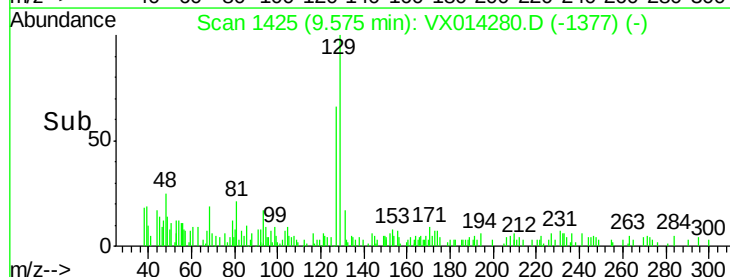
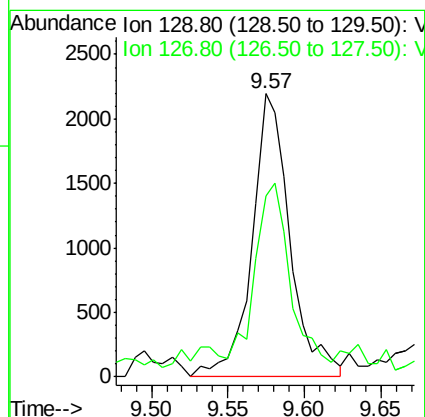
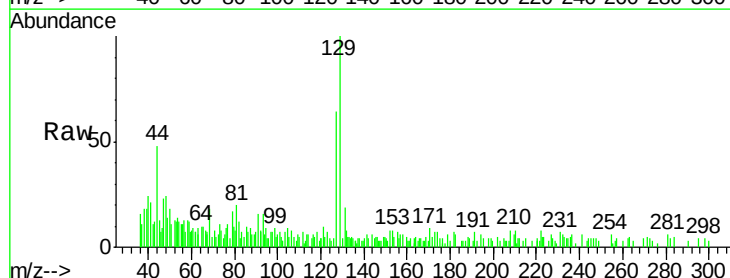
Acq: 26 Dec 2019 19:27

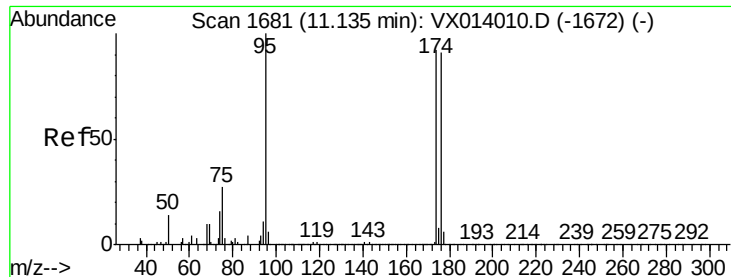
Tgt Ion: 129 Resp: 3790

Ion Ratio Lower Upper

129 100

127 60.6 38.4 115.2





#62

4-Bromofluorobenzene

Concen: 46.081 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

PW

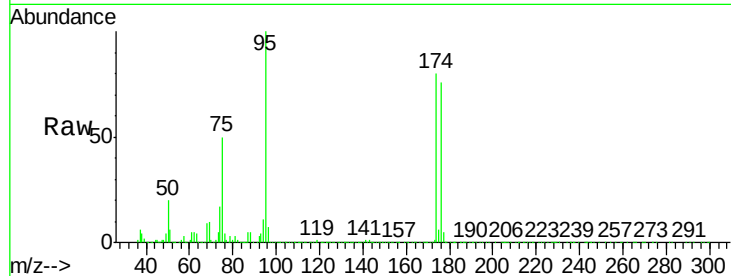
Tgt Ion: 95 Resp: 326557

Ion Ratio Lower Upper

95 100

174 86.5 0.0 175.8

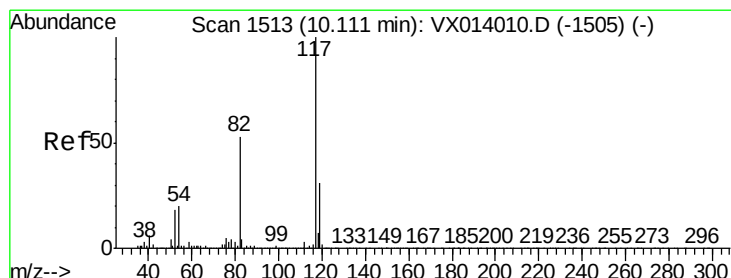
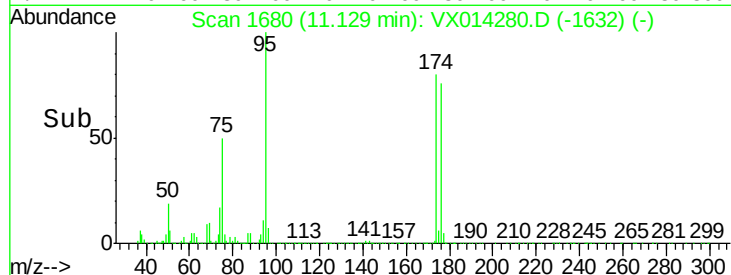
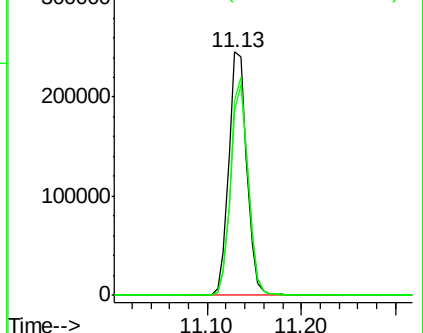
176 84.2 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX014280.D

Acq: 26 Dec 2019 19:27

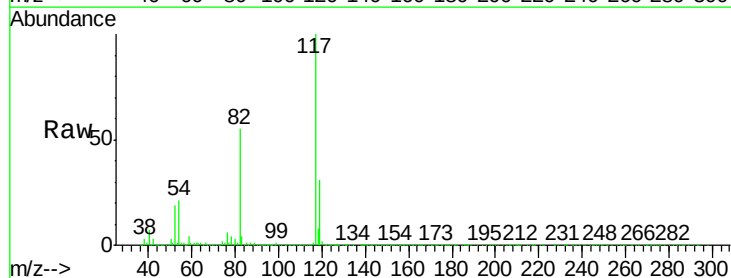
Tgt Ion: 117 Resp: 730541

Ion Ratio Lower Upper

117 100

82 55.5 42.2 63.4

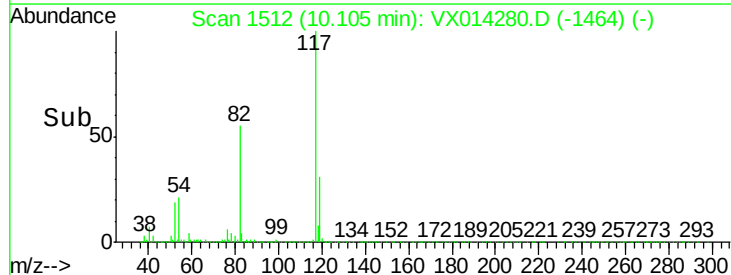
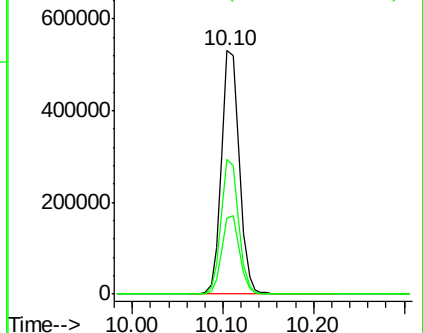
119 31.3 25.1 37.7

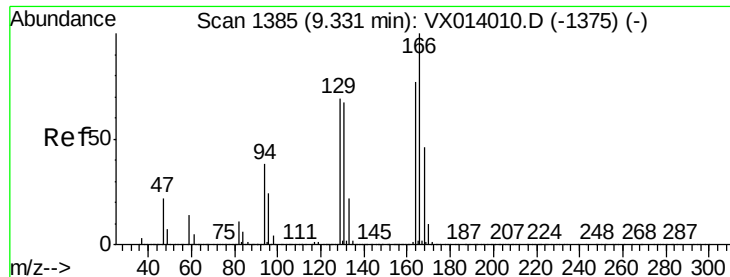


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.890 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

PW

Tgt Ion:164 Resp: 5754

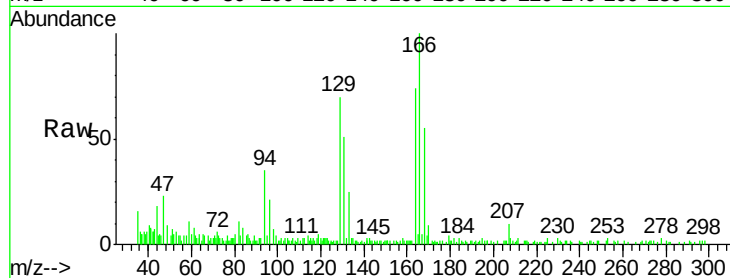
Ion Ratio Lower Upper

164 100

166 131.3 104.0 156.0

129 90.5 72.2 108.4

131 68.5 69.6 104.4#

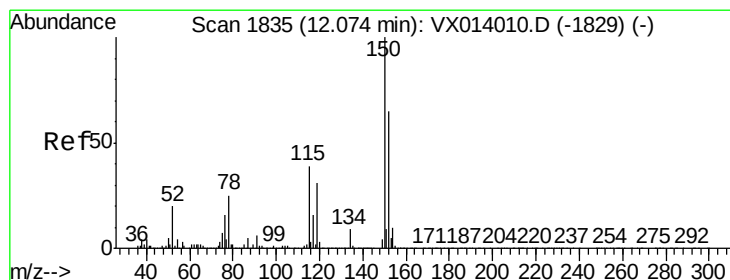
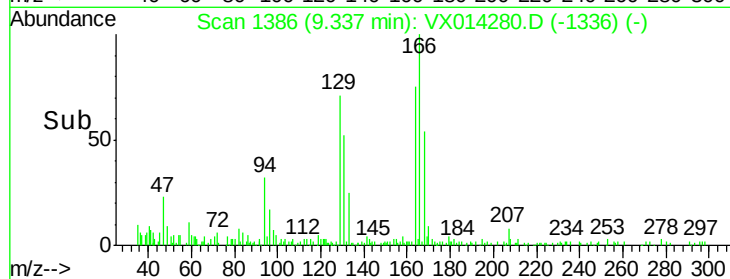
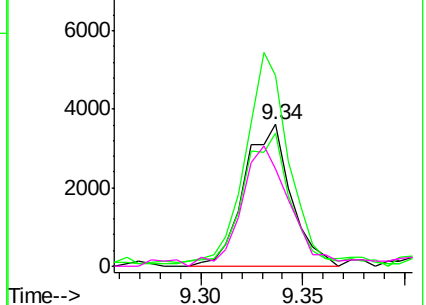


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX014280.D

Acq: 26 Dec 2019 19:27

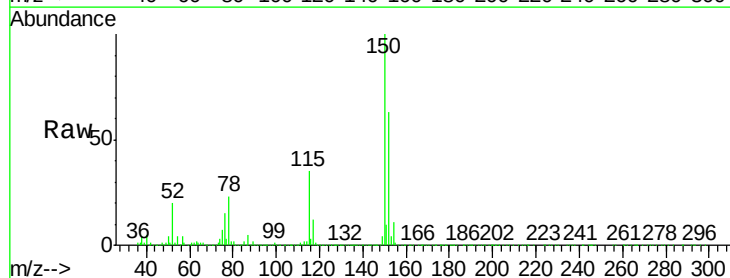
Tgt Ion:152 Resp: 317615

Ion Ratio Lower Upper

152 100

115 56.3 38.3 114.9

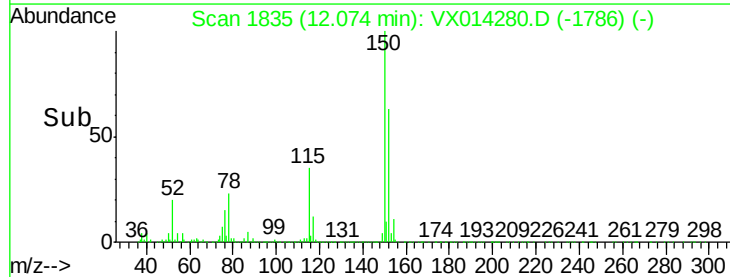
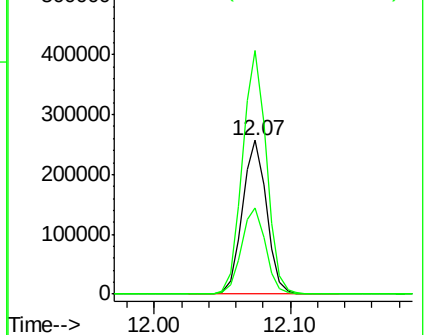
150 157.0 0.0 345.4

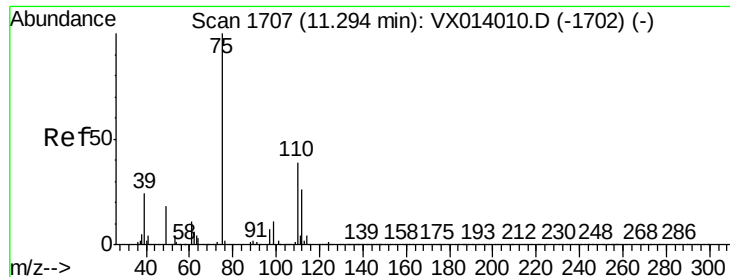


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.156 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampled :

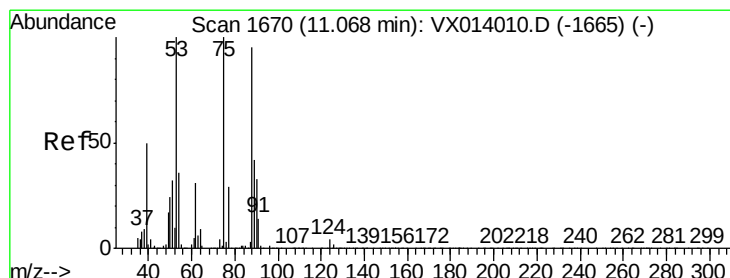
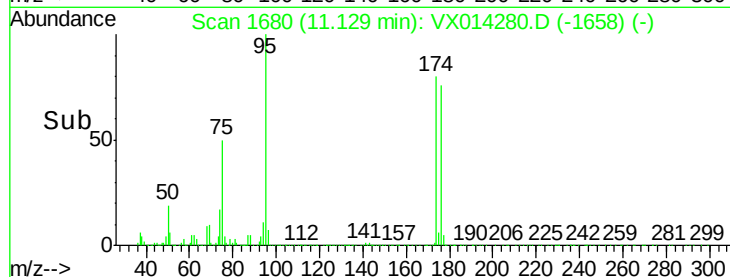
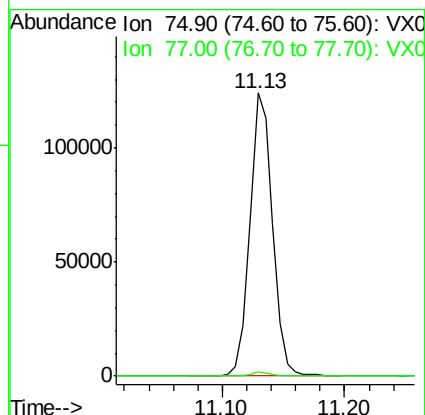
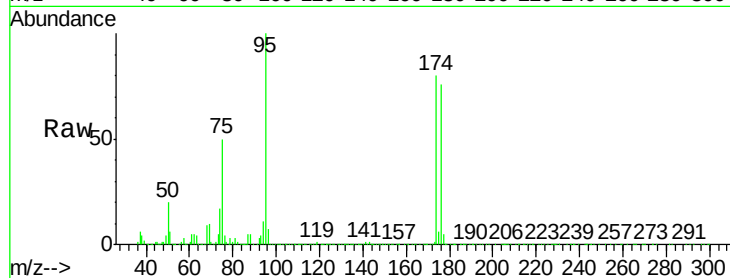
PW

Tgt Ion: 75 Resp: 159671

Ion Ratio Lower Upper

75 100

77 2.0 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.359 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

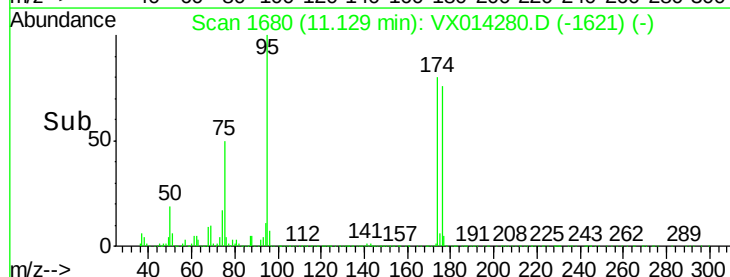
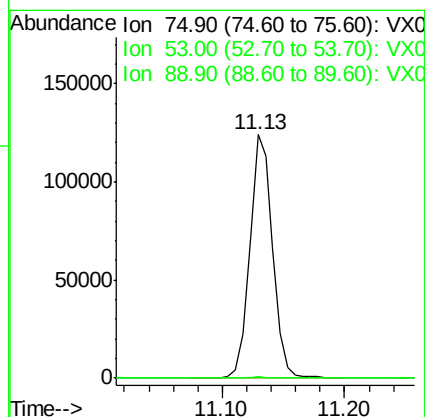
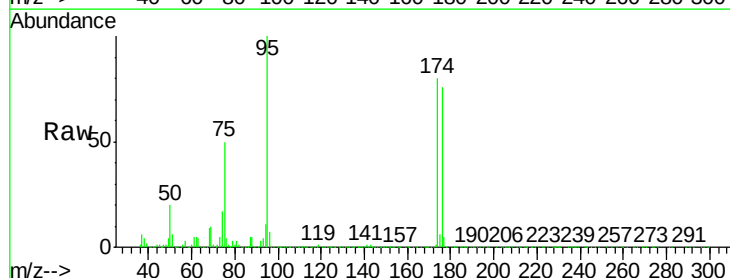
Tgt Ion: 75 Resp: 159671

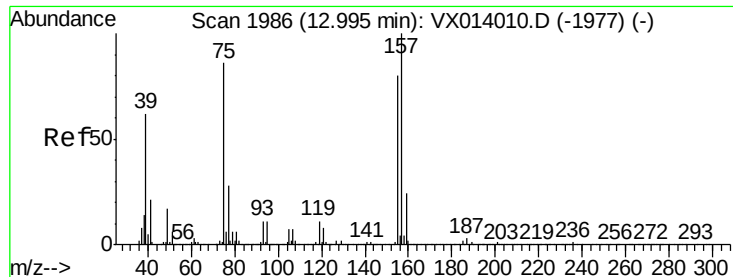
Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.1 34.6 51.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.227 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX014280.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_X

ClientSampleId :

PW

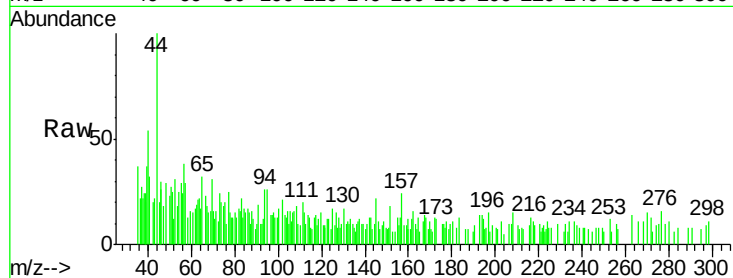
Tgt Ion: 75 Resp: 390

Ion Ratio Lower Upper

75 100

155 65.9 46.9 140.6

157 55.9 60.8 182.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

