

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013986.D
 Acq On : 12 Dec 2019 19:29
 Operator : JC/SP
 Sample : K6252-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20191210

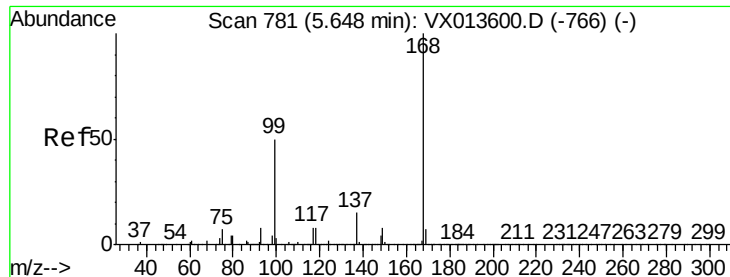
Quant Time: Dec 13 00:55:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	559076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	860365	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	753809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	311916	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	311875	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
35) Dibromofluoromethane	5.49	113	253973	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
50) Toluene-d8	8.71	98	1008551	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
62) 4-Bromofluorobenzene	11.13	95	326167	43.65	ug/l	0.00
Spiked Amount			Recovery	=	87.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1544	0.248	ug/l	82
3) Chloromethane	1.32	50	3734	0.535	ug/l	98
5) Bromomethane	1.63	94	1171	0.222	ug/l #	36
6) Chloroethane	1.74	64	2230	0.499	ug/l #	41
7) Trichlorofluoromethane	1.92	101	2490	0.285	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.37	101	86720	16.269	ug/l	96
12) 1,1-Dichloroethene	2.36	96	49441	9.292	ug/l	95
13) Acrolein	2.26	56	414	6.381	ug/l #	15
15) Acrylonitrile	3.13	53	783	0.237	ug/l #	40
16) Acetone	2.44	43	3982	1.243	ug/l #	82
24) 1,1-Dichloroethane	3.69	63	12987	1.278	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	21723	3.264	ug/l	88
30) Chloroform	5.19	83	6044	0.586	ug/l	87
32) 1,1,1-Trichloroethane	5.49	97	5552	0.645	ug/l #	33
36) 1,1-Dichloropropene	5.65	75	37279	4.773	ug/l #	51
38) Carbon Tetrachloride	5.76	117	2872	0.399	ug/l #	66
39) Methylcyclohexane	7.20	83	61905	6.412	ug/l #	1
44) Trichloroethene	7.21	130	5682497	870.462	ug/l	98
49) 1,4-Dioxane	7.75	88	3555	22.661	ug/l #	46
55) 1,1,2-Trichloroethane	9.21	97	4724	0.793	ug/l #	87
60) Dibromochloromethane	9.33	129	21438	3.469	ug/l #	12
64) Tetrachloroethene	9.33	164	24053	4.279	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	159934	22.797	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	159934	62.369	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	351	0.212	ug/l #	28

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

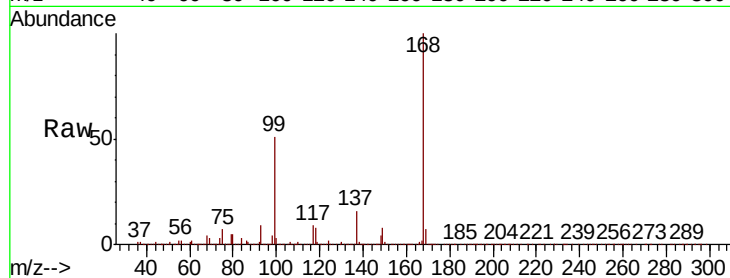
RE120D1-20191210

Tot Ion:168 Resp: 559076

Ion Ratio Lower Upper

168 100

99 50.6 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

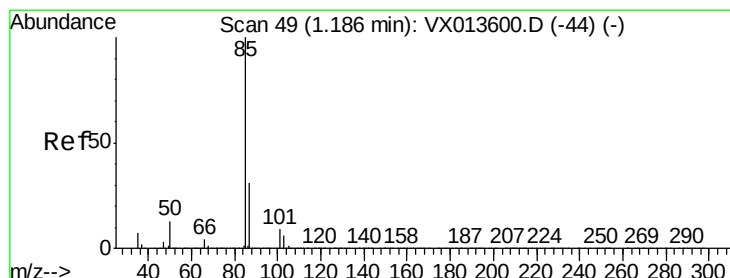
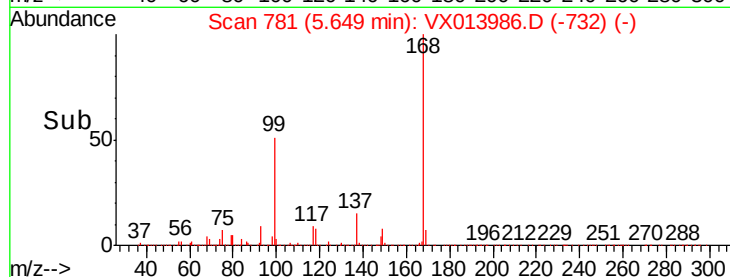
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.248 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX013986.D

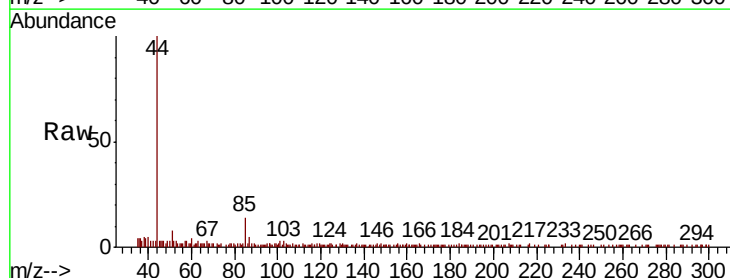
Acq: 12 Dec 2019 19:29

Tgt Ion: 85 Resp: 1544

Ion Ratio Lower Upper

85 100

87 21.3 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

1500

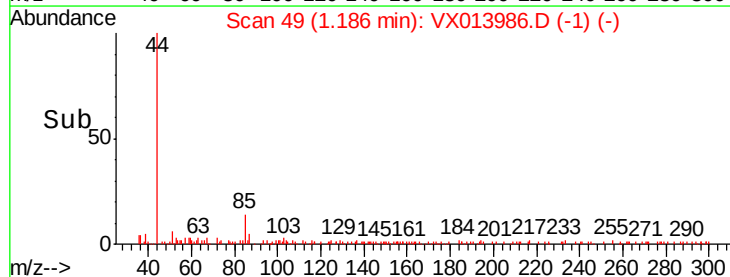
1000

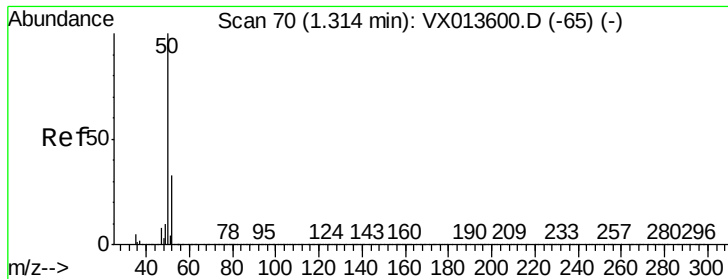
500

0

Time-->

1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.535 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

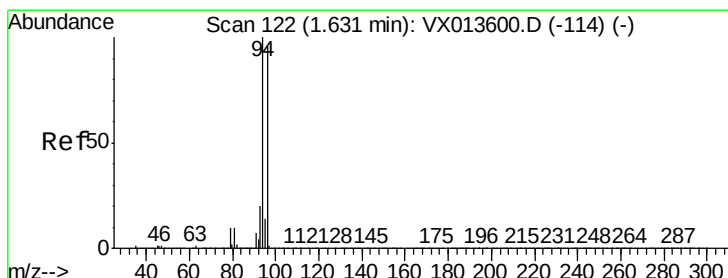
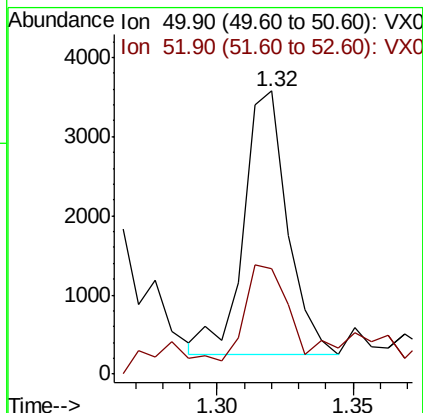
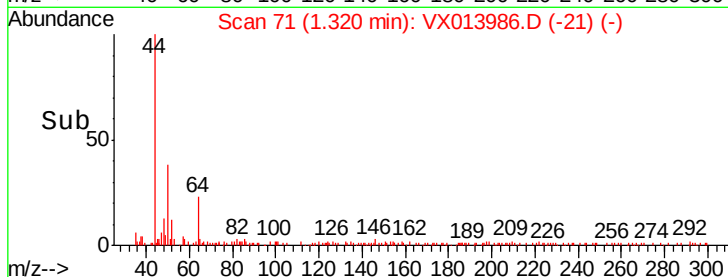
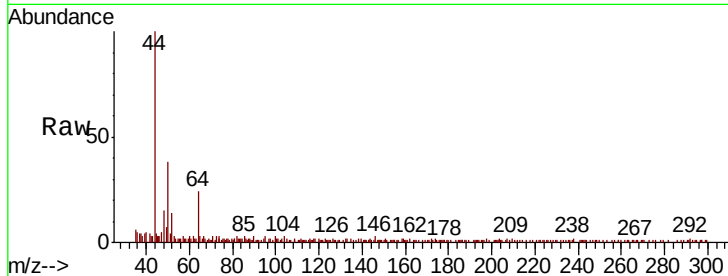
RE120D1-20191210

Tot Ion: 50 Resp: 3734

Ion Ratio Lower Upper

50 100

52 31.6 26.0 39.0



#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013986.D

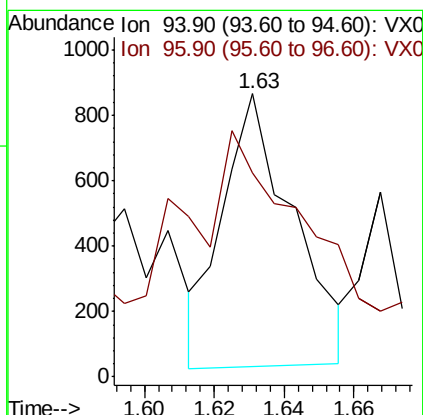
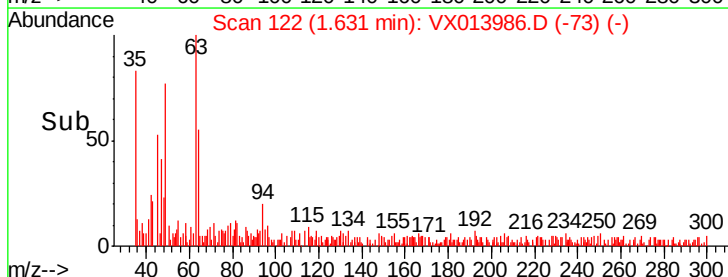
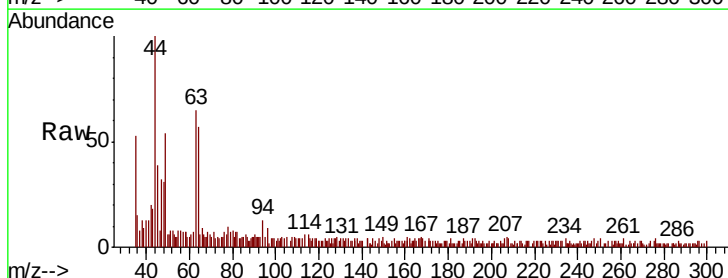
Acq: 12 Dec 2019 19:29

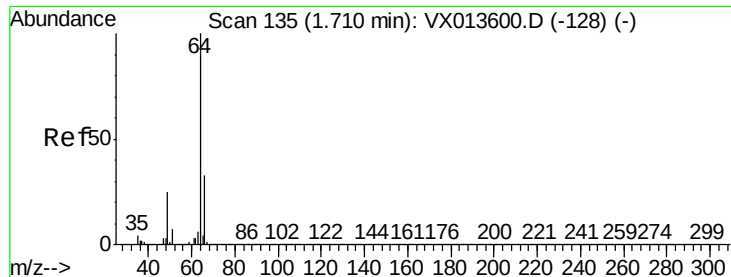
Tgt Ion: 94 Resp: 1171

Ion Ratio Lower Upper

94 100

96 34.0 77.0 115.4#





#6

Chloroethane

Concen: 0.499 ug/l

RT: 1.74 min Scan# 140

Delta R.T. 0.03 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

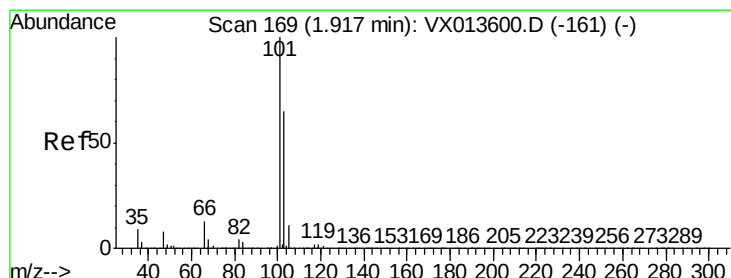
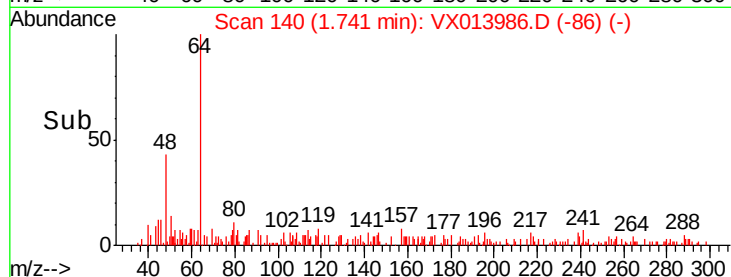
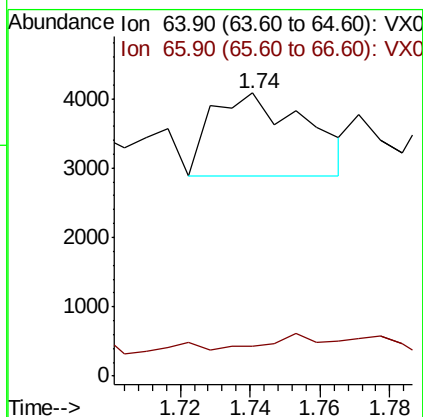
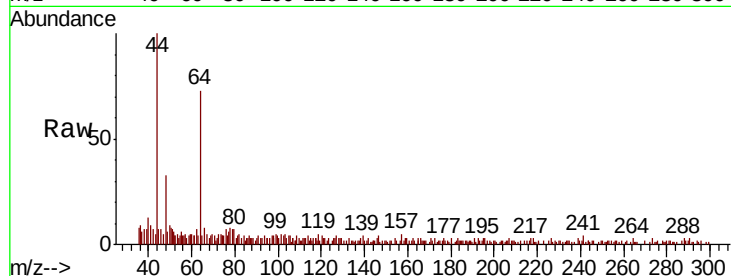
RE120D1-20191210

Tot Ion: 64 Resp: 2230

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



#7

Trichlorofluoromethane

Concen: 0.285 ug/l

RT: 1.92 min Scan# 169

Delta R.T. 0.00 min

Lab File: VX013986.D

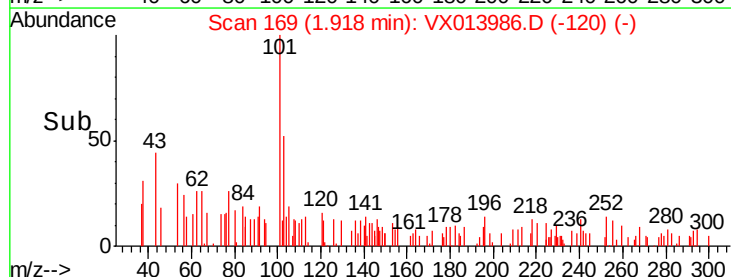
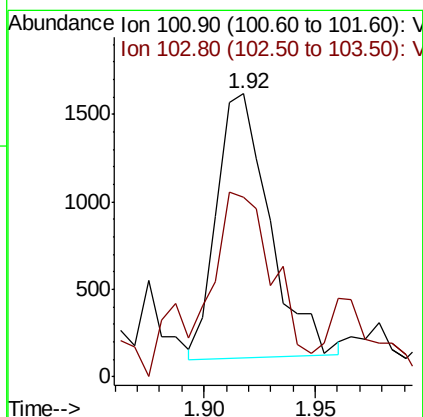
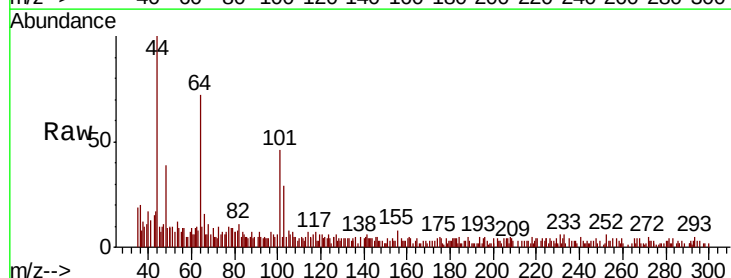
Acq: 12 Dec 2019 19:29

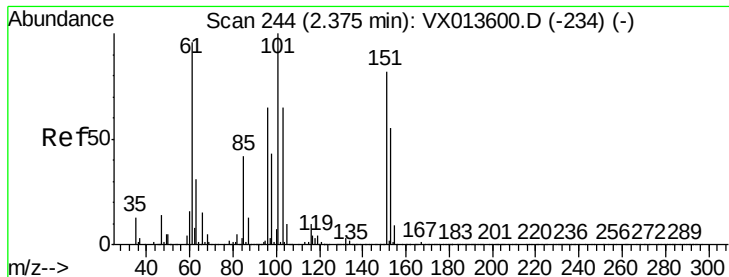
Tgt Ion: 101 Resp: 2490

Ion Ratio Lower Upper

101 100

103 55.0 51.8 77.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.269 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.00 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20191210

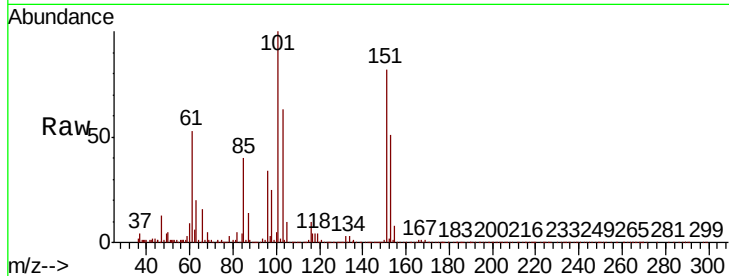
Tot Ion:101 Resp: 86720

Ion Ratio Lower Upper

101 100

85 44.0 33.9 50.9

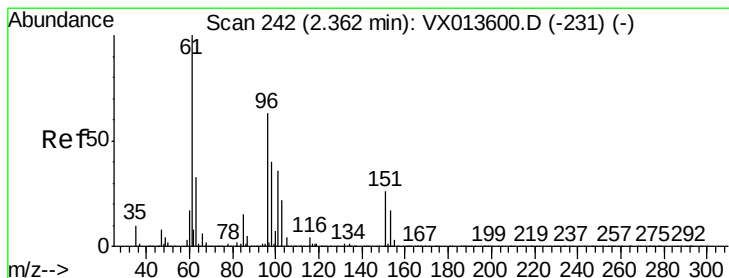
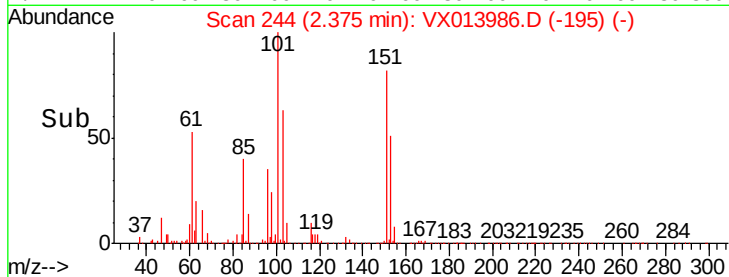
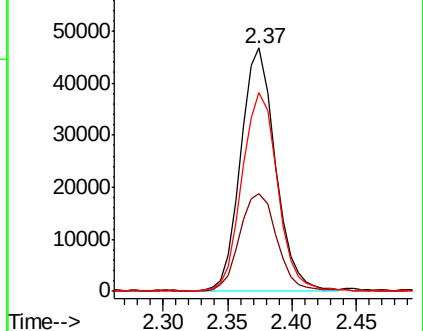
151 83.8 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 9.292 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

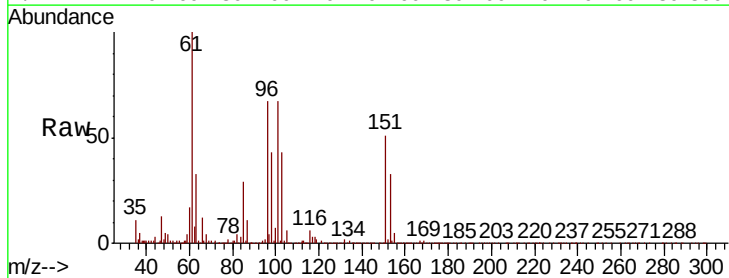
Tgt Ion: 96 Resp: 49441

Ion Ratio Lower Upper

96 100

61 149.6 126.6 190.0

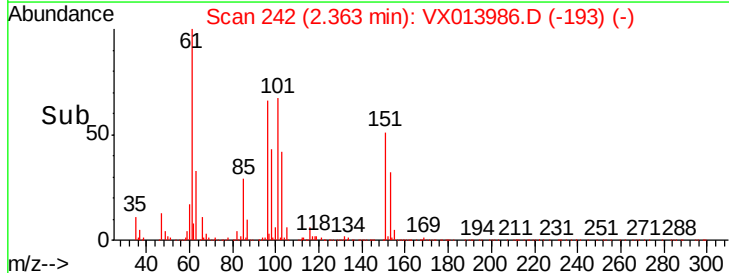
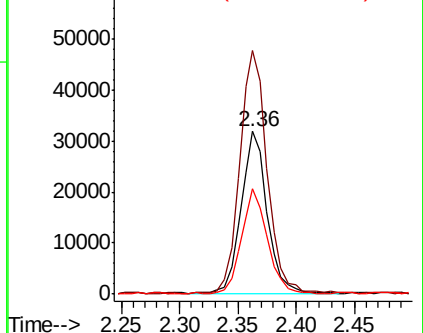
98 64.8 50.6 76.0

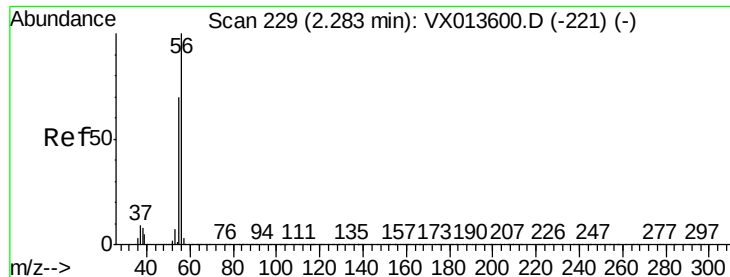


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 6.381 ug/l

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

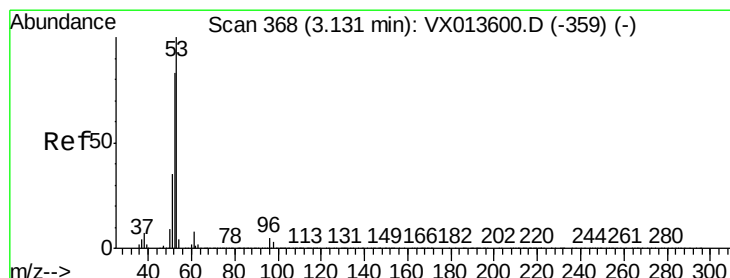
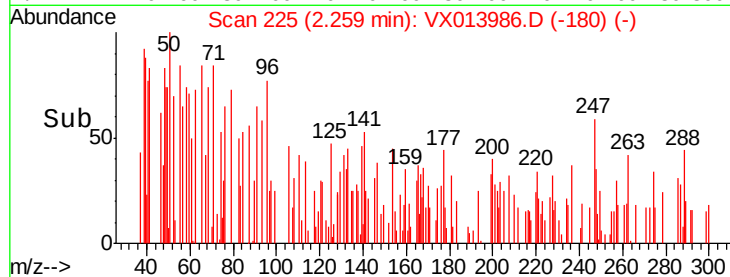
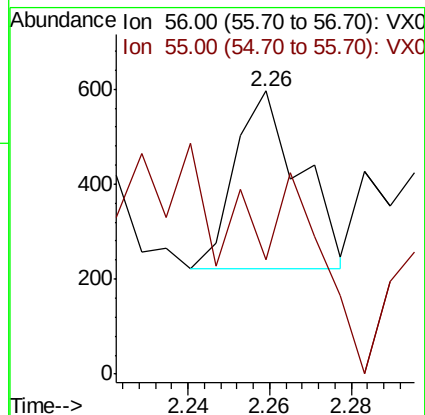
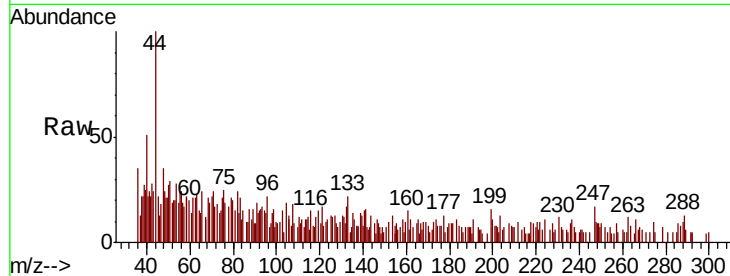
RE120D1-20191210

Tot Ion: 56 Resp: 414

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#15

Acrylonitrile

Concen: 0.237 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

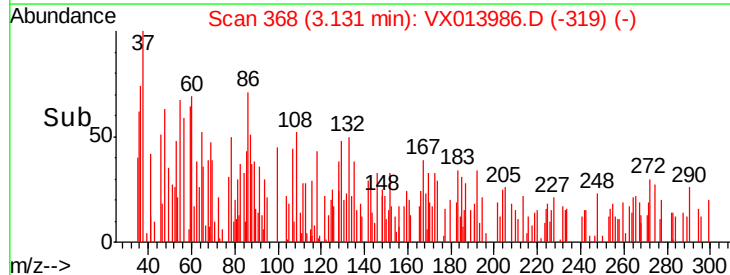
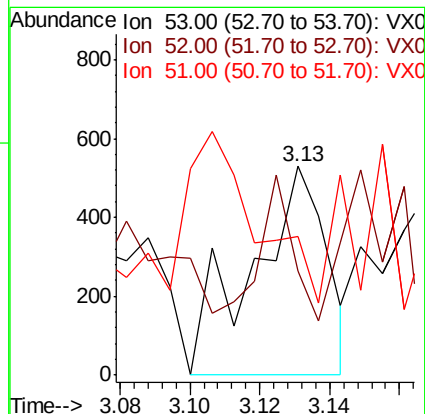
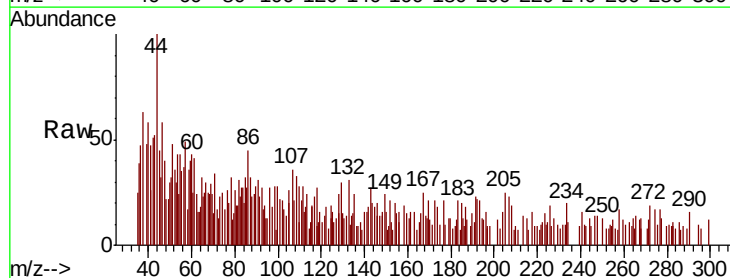
Tgt Ion: 53 Resp: 783

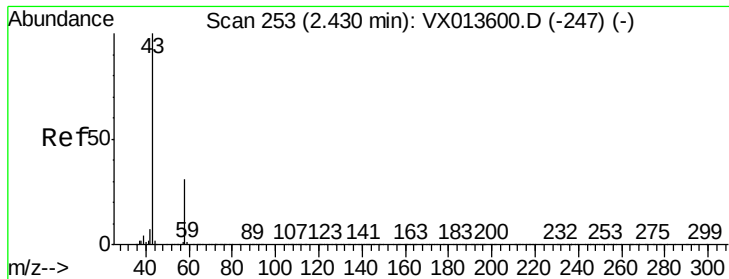
Ion Ratio Lower Upper

53 100

52 29.9 66.2 99.2#

51 0.0 29.0 43.6#





#16

Acetone

Concen: 1.243 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

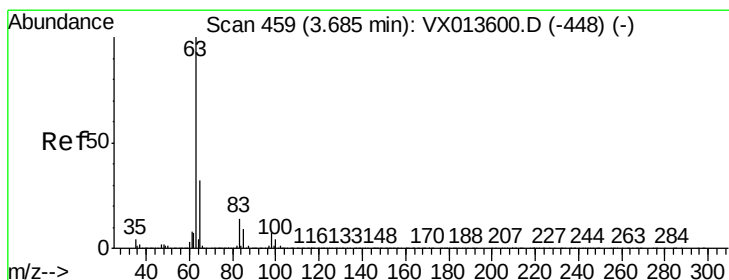
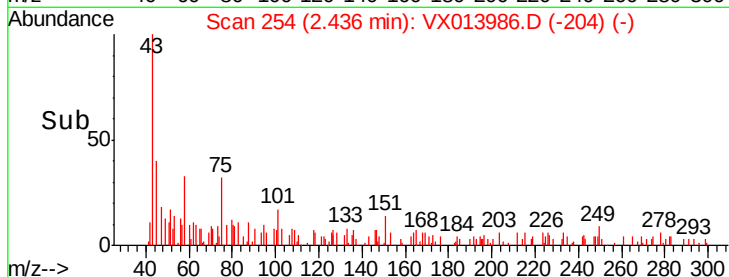
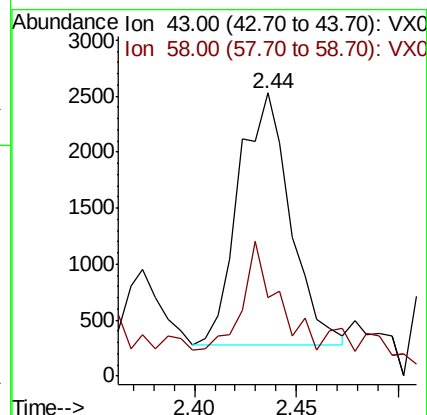
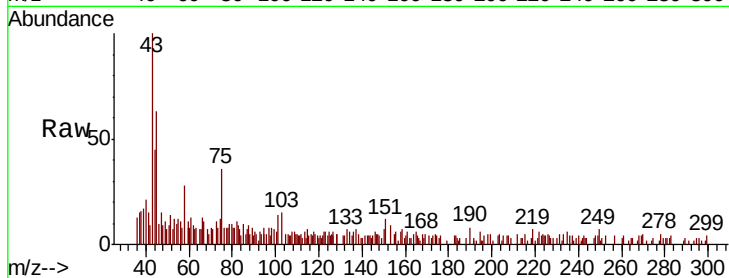
RE120D1-20191210

Tot Ion: 43 Resp: 3982

Ion Ratio Lower Upper

43 100

58 21.1 24.6 36.8#



#24

1,1-Dichloroethane

Concen: 1.278 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

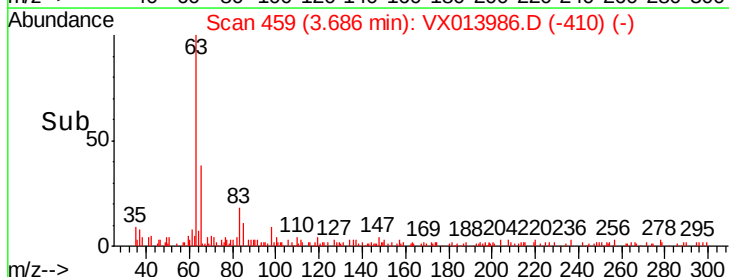
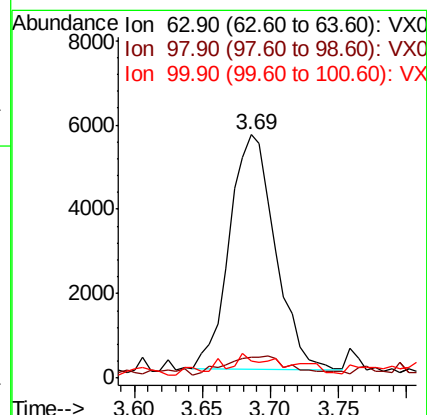
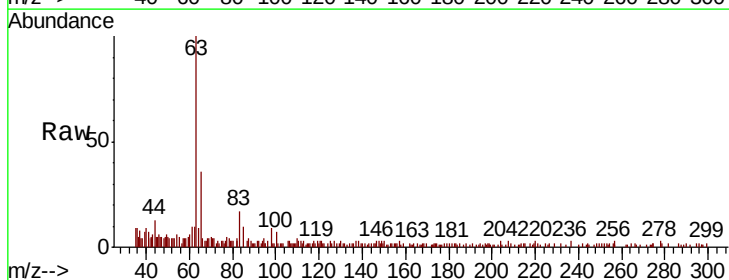
Tgt Ion: 63 Resp: 12987

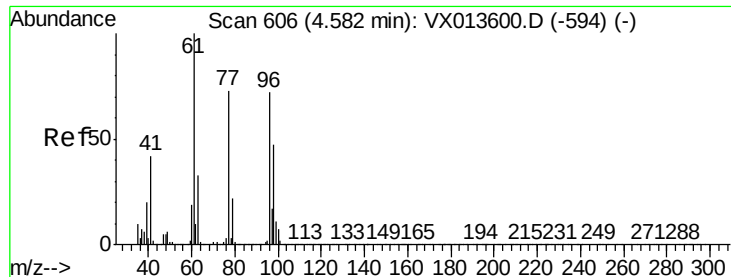
Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.4

100 5.2 2.1 6.3



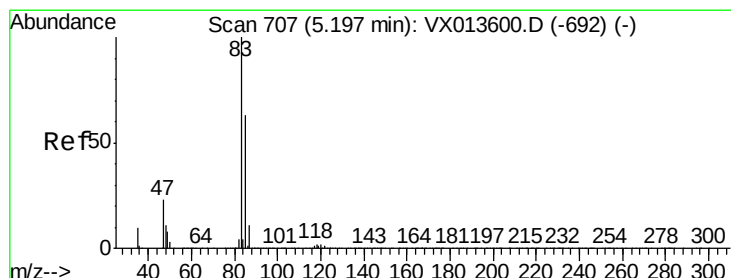
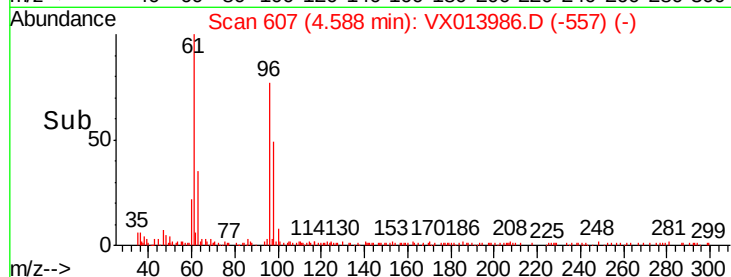
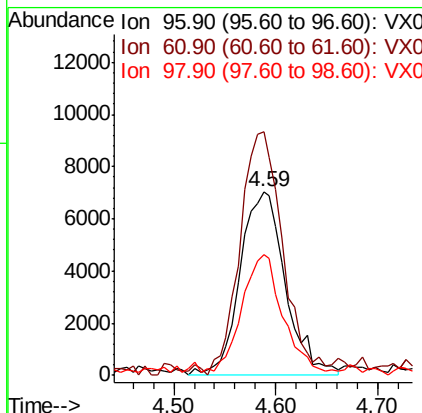
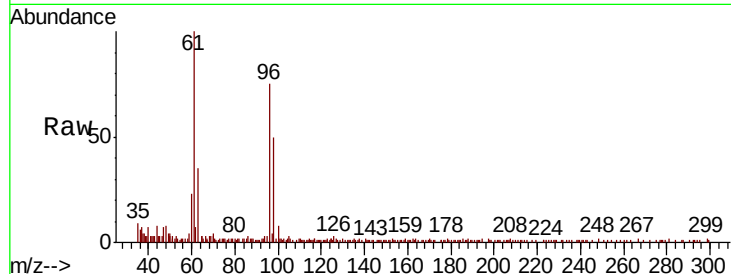


#27

cis-1,2-Dichloroethene
Concen: 3.264 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX013986.D
Acq: 12 Dec 2019 19:29

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20191210

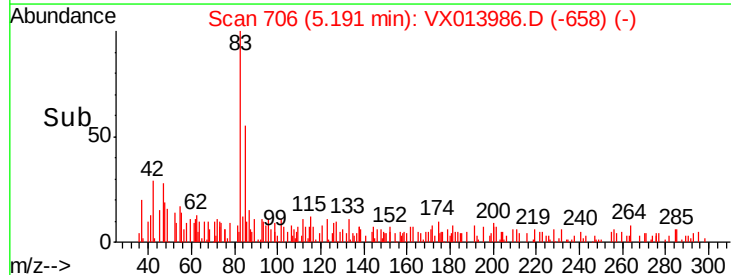
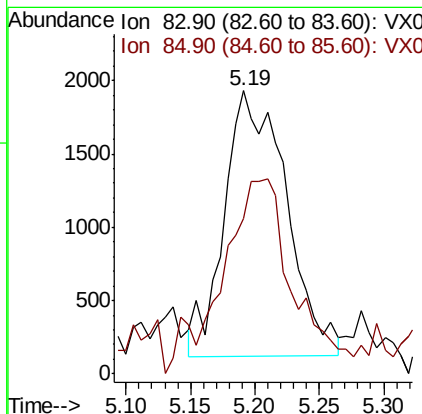
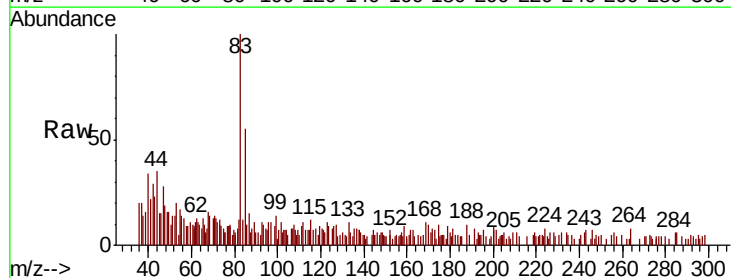
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.4	0.0	286.4
98	57.7	0.0	127.4

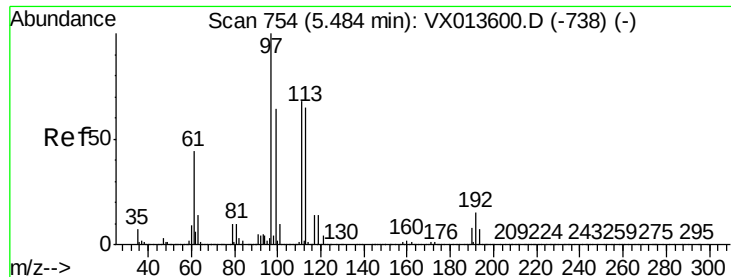


#30

Chloroform
Concen: 0.586 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX013986.D
Acq: 12 Dec 2019 19:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	53.1	50.2	75.4





#32

1,1,1-Trichloroethane

Concen: 0.645 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20191210

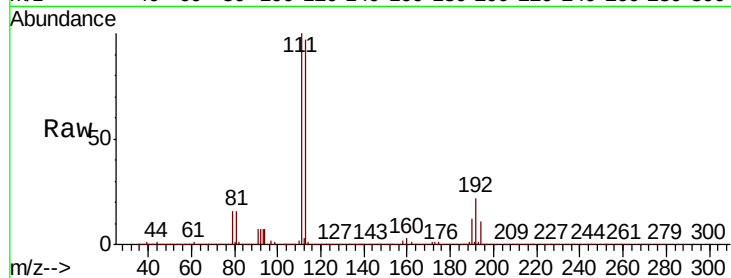
Tot Ion: 97 Resp: 5552

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

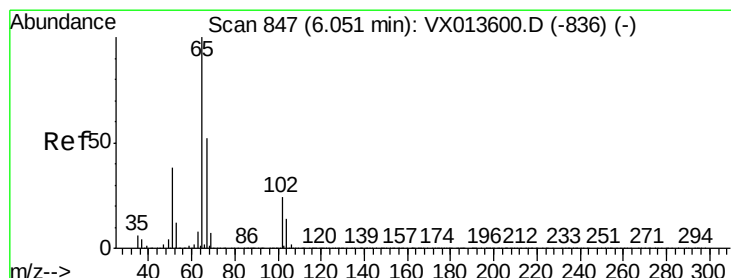
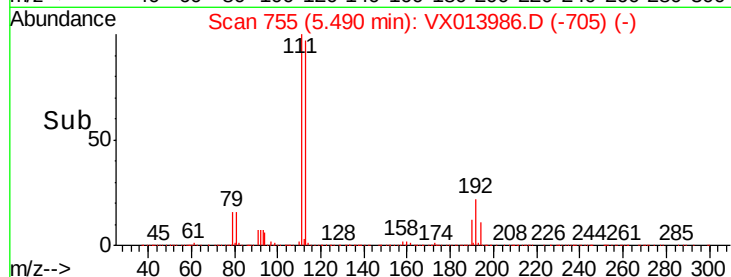
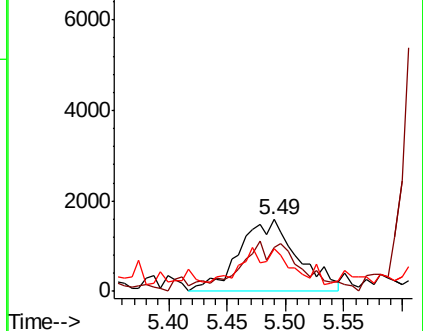
61 15.6 36.1 54.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.058 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013986.D

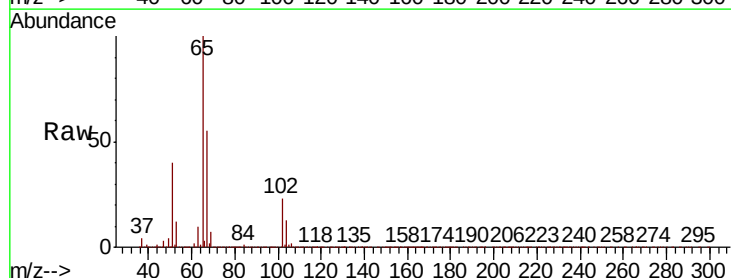
Acq: 12 Dec 2019 19:29

Tgt Ion: 65 Resp: 311875

Ion Ratio Lower Upper

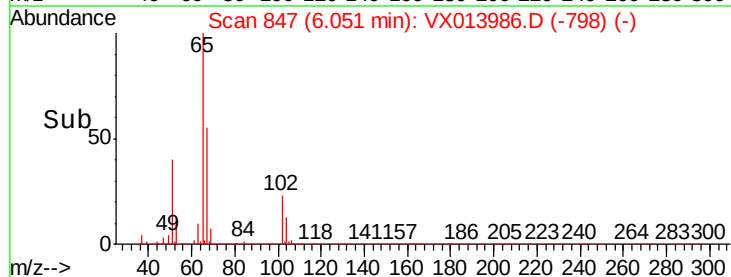
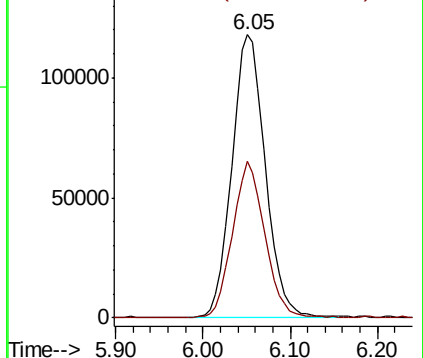
65 100

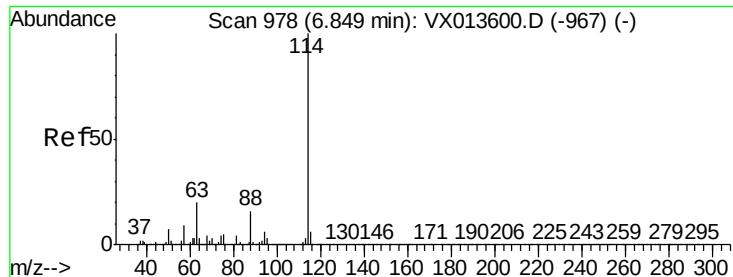
67 53.0 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

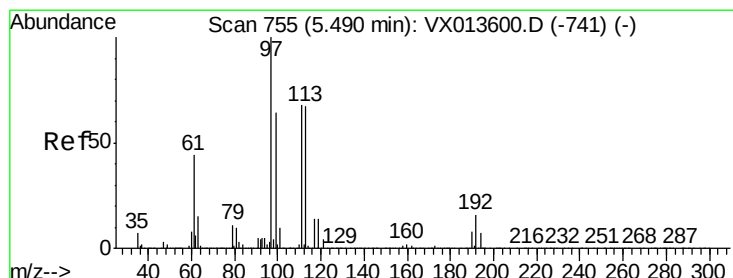
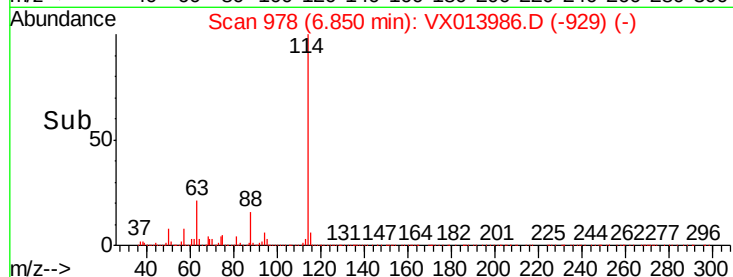
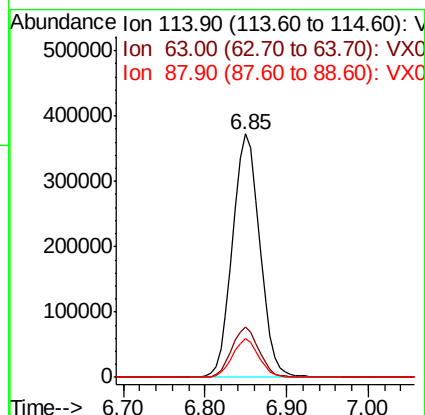
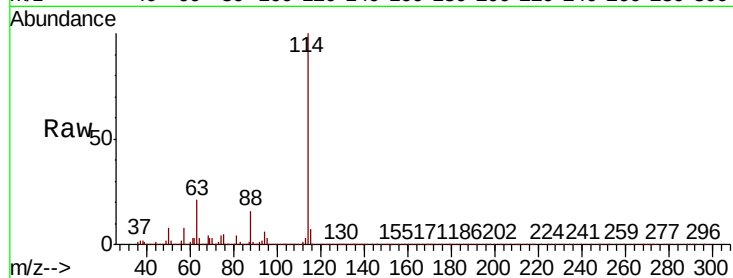




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX013986.D
Acq: 12 Dec 2019 19:29

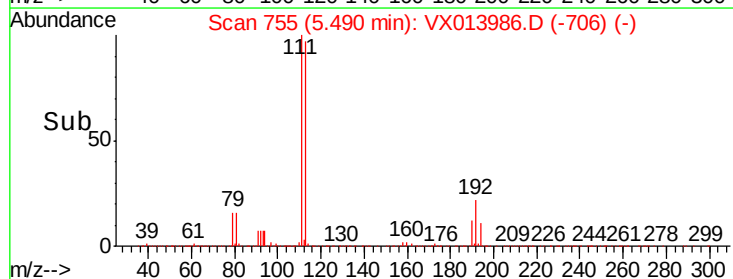
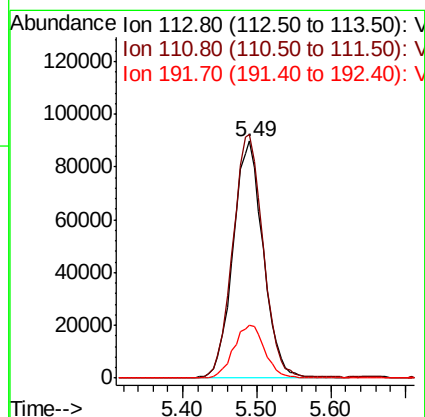
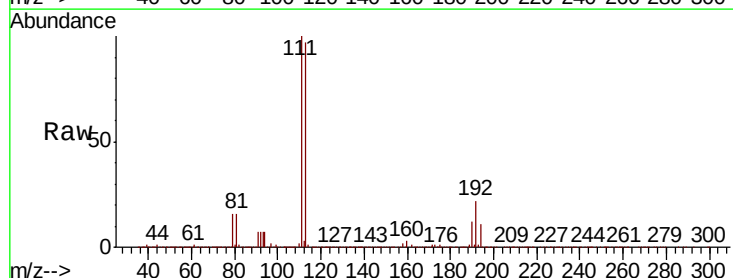
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20191210

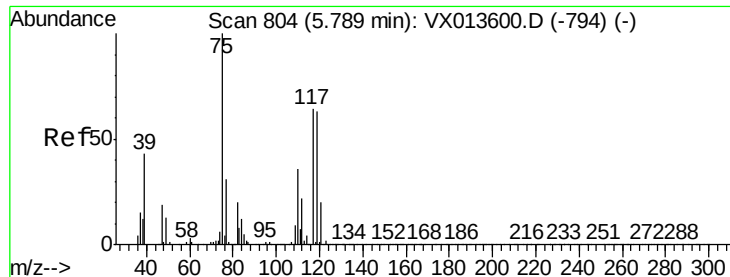
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	39.6
88	15.8	0.0	31.4



#35
Dibromofluoromethane
Concen: 47.749 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX013986.D
Acq: 12 Dec 2019 19:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	83.6	125.4
192	22.7	19.2	28.8

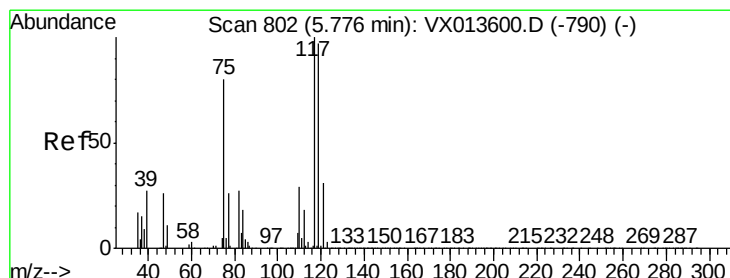
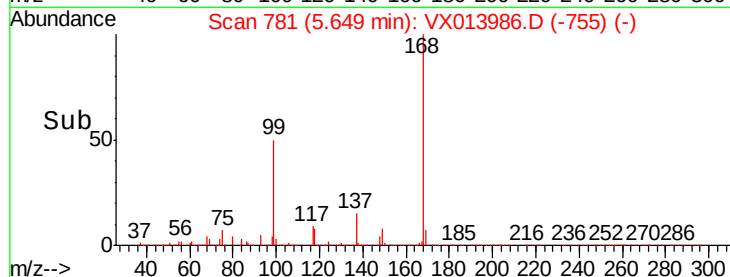
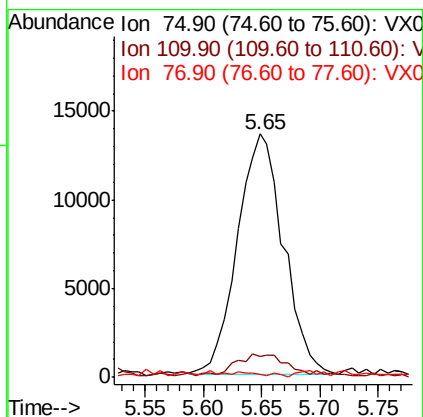
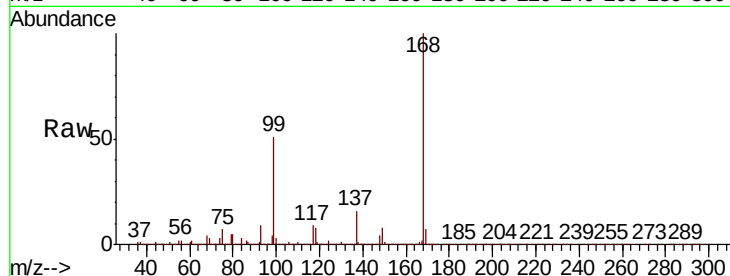




#36
 1,1-Dichloropropene
 Concen: 4.773 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013986.D
 Acq: 12 Dec 2019 19:29

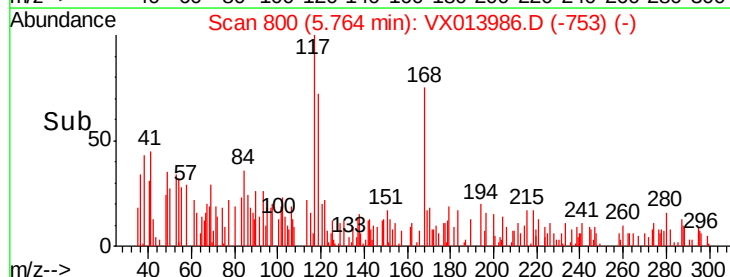
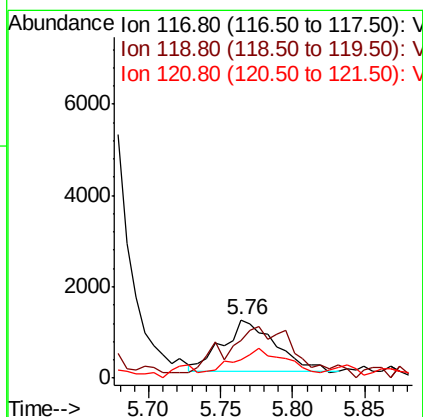
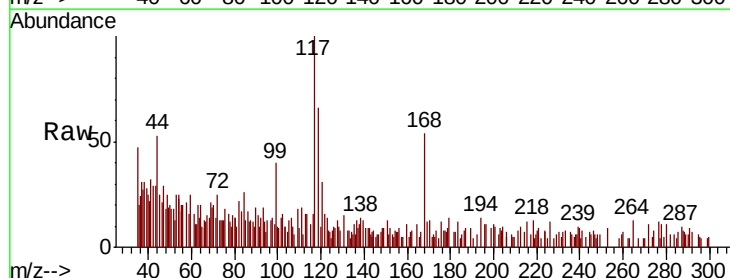
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20191210

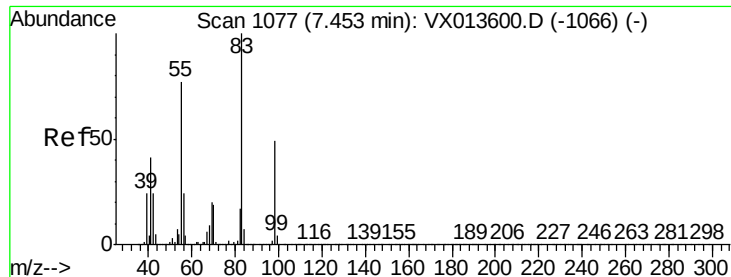
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.1	54.1#
77	0.4	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 0.399 ug/l
 RT: 5.76 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: VX013986.D
 Acq: 12 Dec 2019 19:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	63.4	77.5	116.3#
121	13.7	25.0	37.6#





#39

Methvlcvclohexane

Concen: 6.412 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.25 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20191210

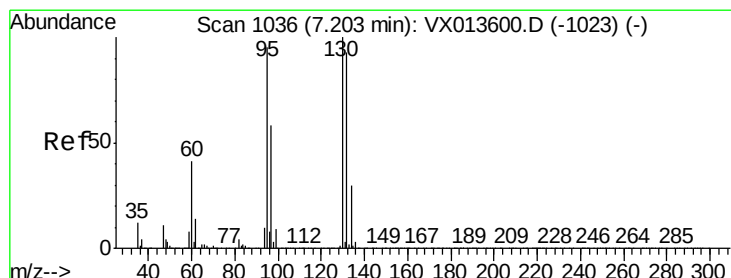
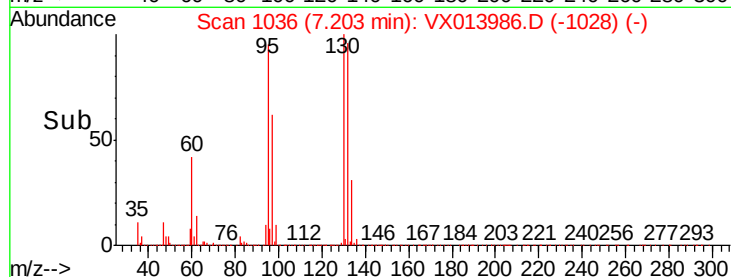
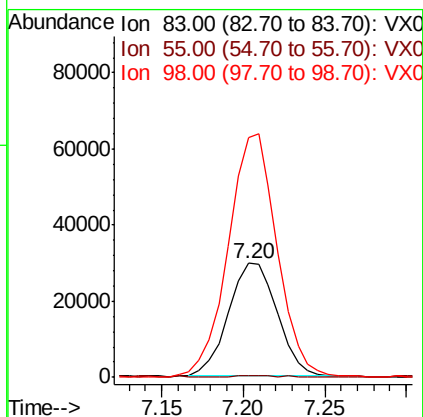
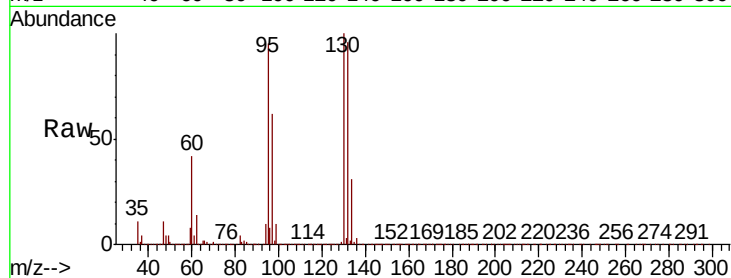
Tot Ion: 83 Resp: 61905

Ion Ratio Lower Upper

83 100

55 0.4 61.9 92.9#

98 210.3 39.4 59.0#



#44

Trichloroethene

Concen: 870.462 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013986.D

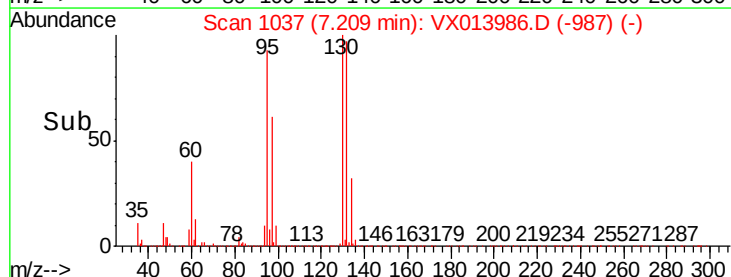
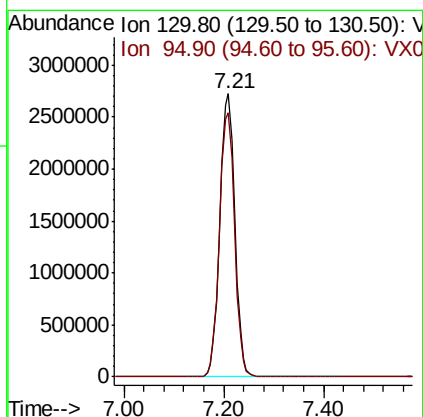
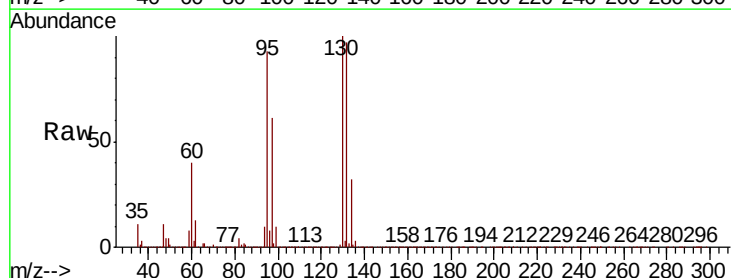
Acq: 12 Dec 2019 19:29

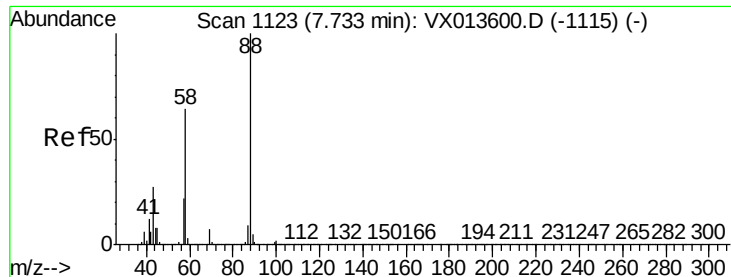
Tgt Ion:130 Resp: 5682497

Ion Ratio Lower Upper

130 100

95 93.2 0.0 190.8





#49

1,4-Dioxane

Concen: 22.661 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20191210

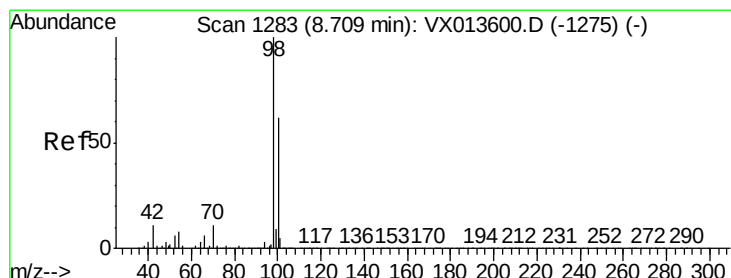
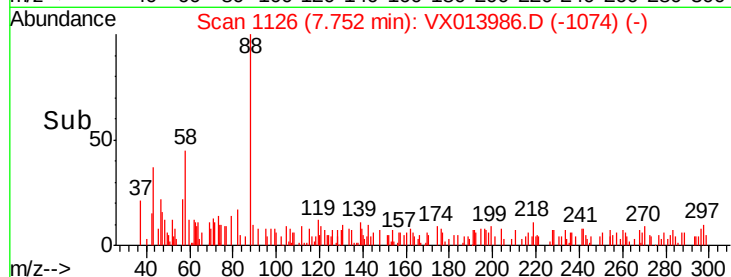
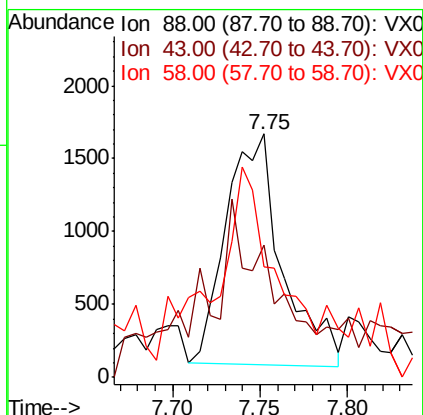
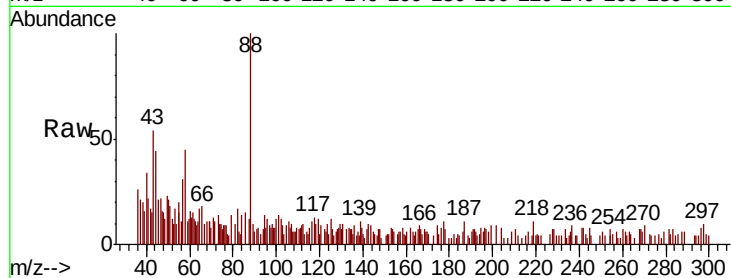
Tot Ion: 88 Resp: 3555

Ion Ratio Lower Upper

88 100

43 98.4 25.8 38.6#

58 87.6 54.6 82.0#



#50

Toluene-d8

Concen: 48.668 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013986.D

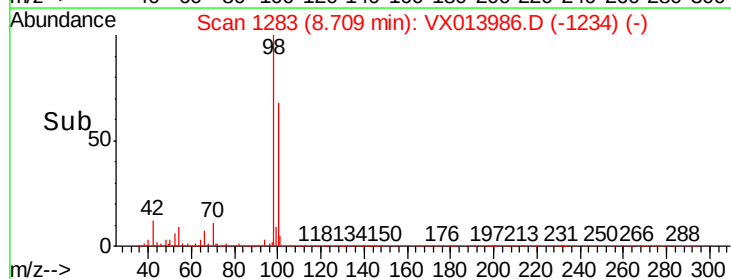
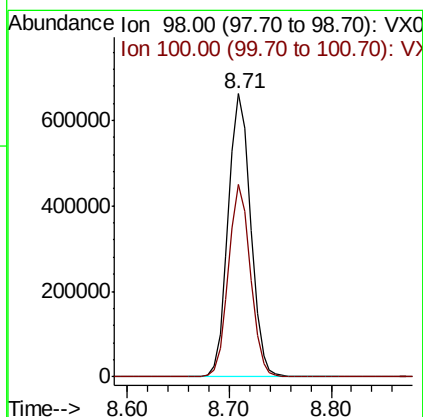
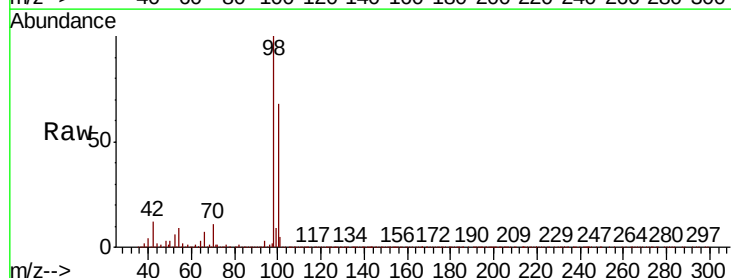
Acq: 12 Dec 2019 19:29

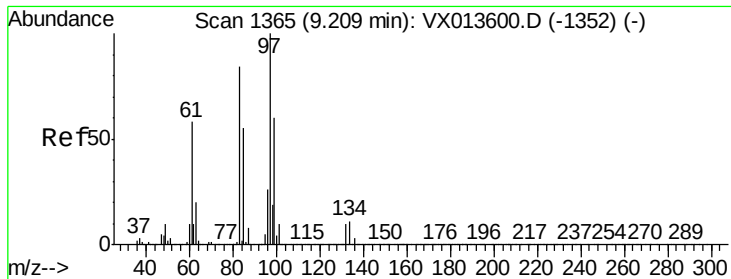
Tgt Ion: 98 Resp: 1008551

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7

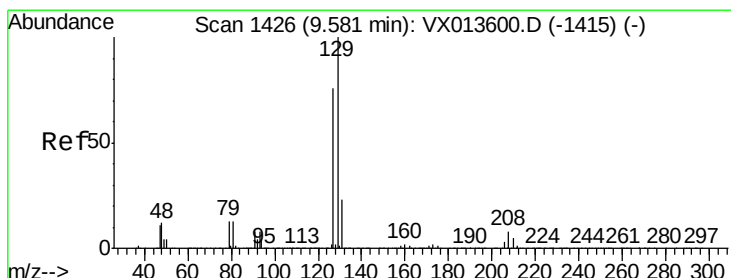
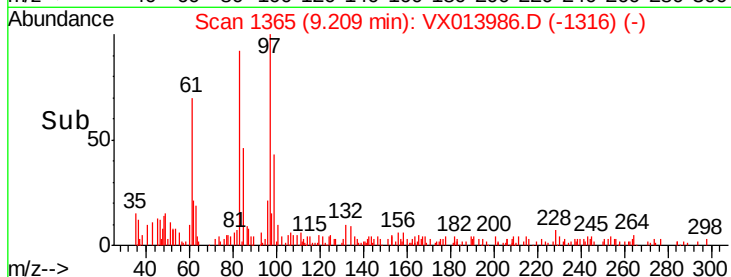
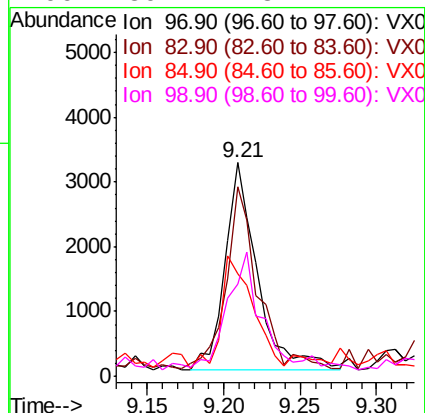
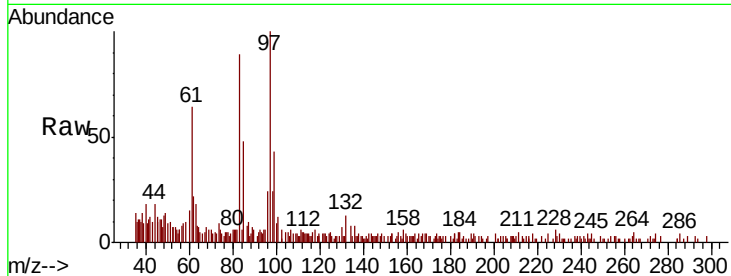




#55
 1,1,2-Trichloroethane
 Concen: 0.793 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VX013986.D
 Acq: 12 Dec 2019 19:29

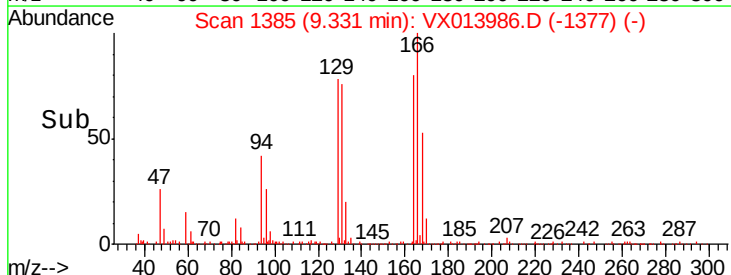
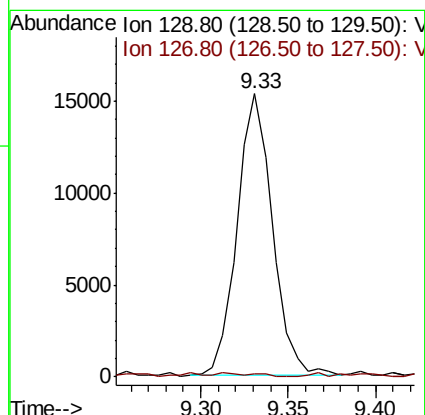
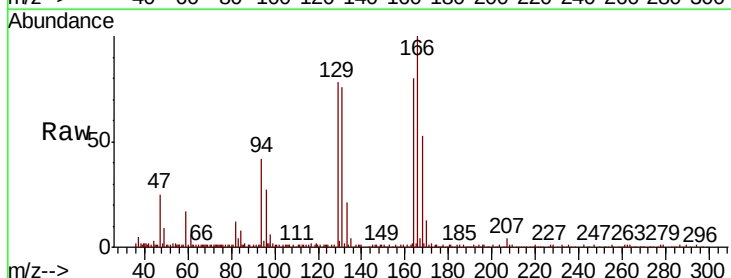
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20191210

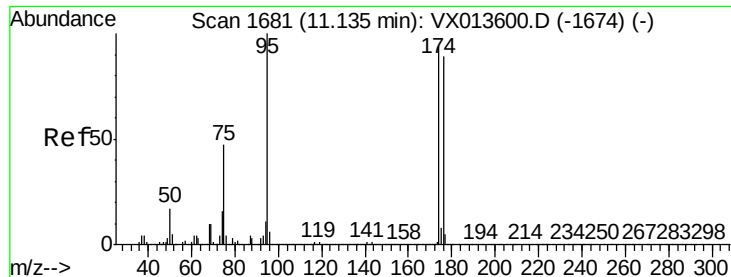
Tot Ion: 97 Resp: 4724
 Ion Ratio Lower Upper
 97 100
 83 87.2 67.3 100.9
 85 45.7 43.6 65.4
 99 39.2 48.2 72.4#



#60
 Dibromochloromethane
 Concen: 3.469 ug/l
 RT: 9.33 min Scan# 1385
 Delta R.T. -0.25 min
 Lab File: VX013986.D
 Acq: 12 Dec 2019 19:29

Tgt Ion: 129 Resp: 21438
 Ion Ratio Lower Upper
 129 100
 127 1.3 38.5 115.5#





#62

4-Bromofluorobenzene

Concen: 43.647 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20191210

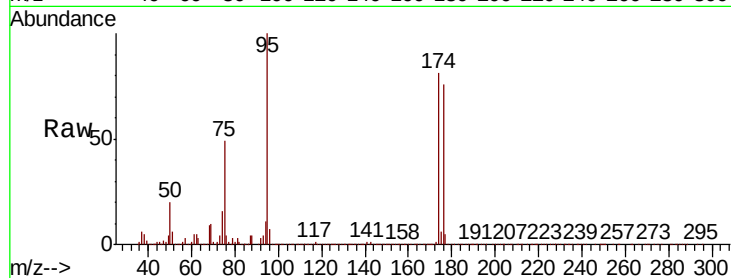
Tot Ion: 95 Resp: 326167

Ion Ratio Lower Upper

95 100

174 89.1 0.0 180.0

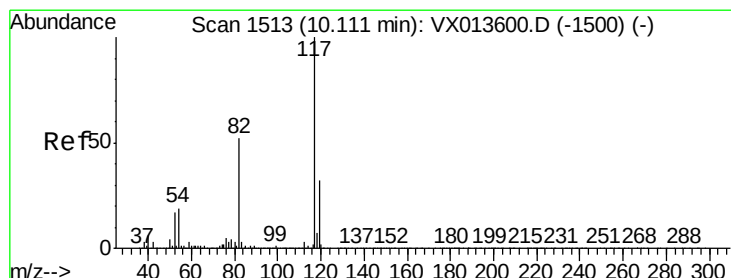
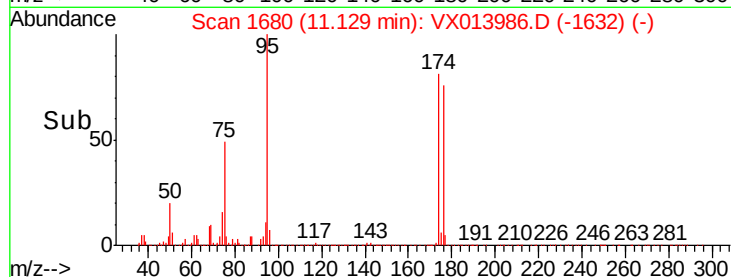
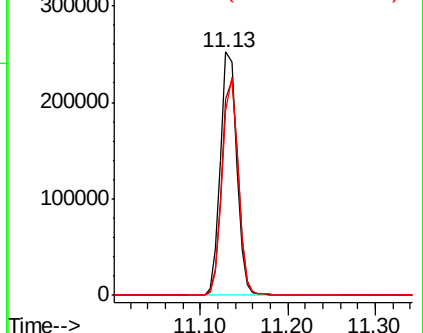
176 86.3 0.0 173.6



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: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

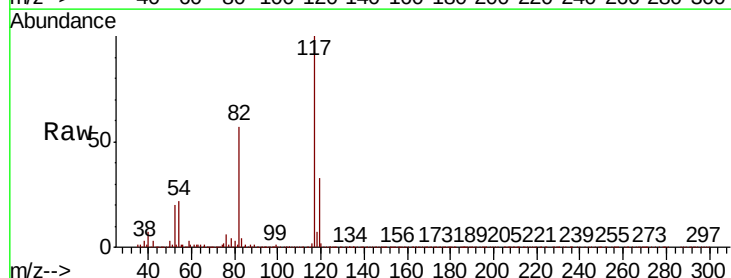
Tgt Ion: 117 Resp: 753809

Ion Ratio Lower Upper

117 100

82 56.7 41.8 62.8

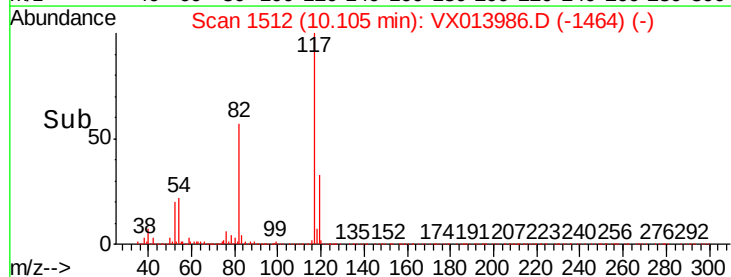
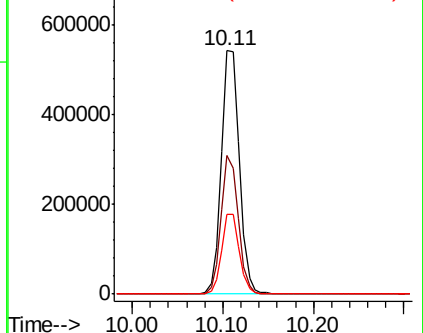
119 32.6 25.8 38.8

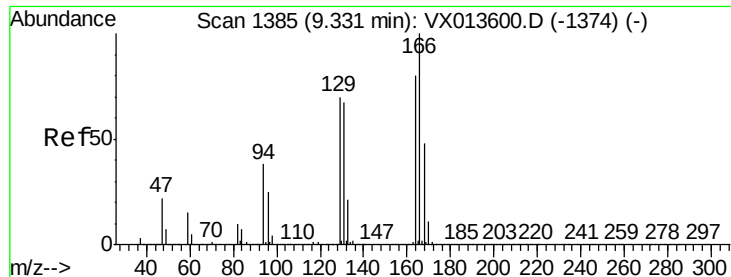


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 4.279 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20191210

Tot Ion:164 Resp: 24053

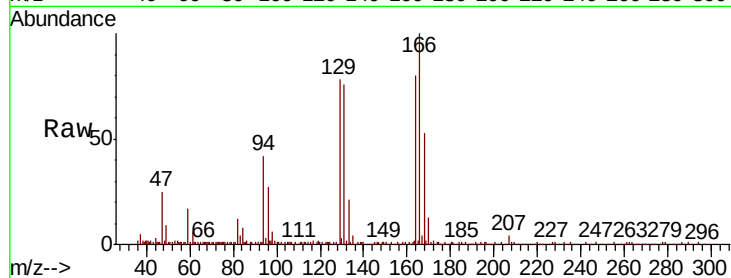
Ion Ratio Lower Upper

164 100

166 125.0 99.7 149.5

129 96.9 70.1 105.1

131 94.9 66.9 100.3

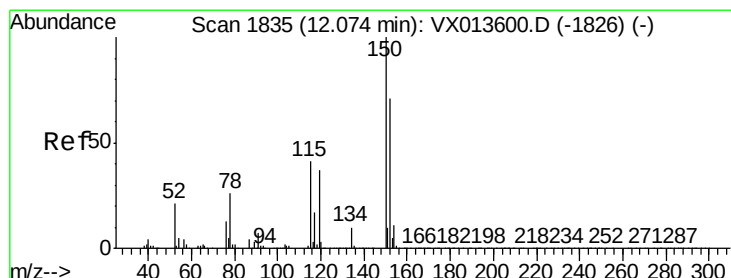
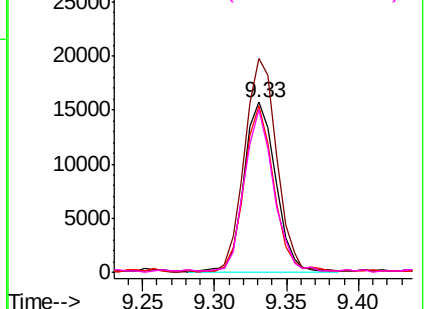
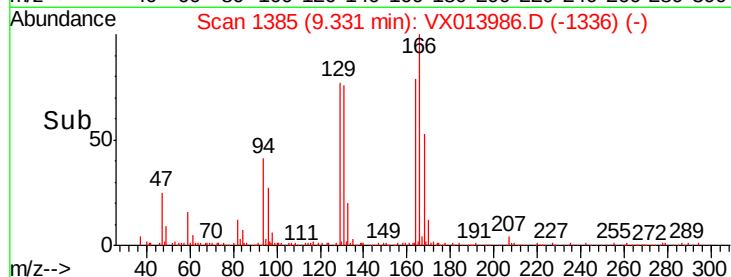


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX013986.D

Acq: 12 Dec 2019 19:29

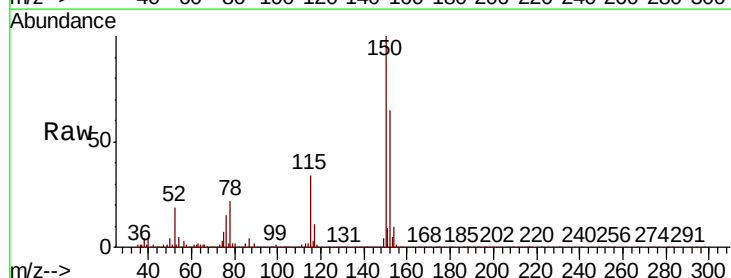
Tgt Ion:152 Resp: 311916

Ion Ratio Lower Upper

152 100

115 54.1 38.4 115.1

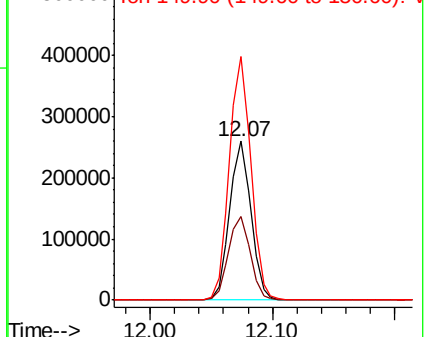
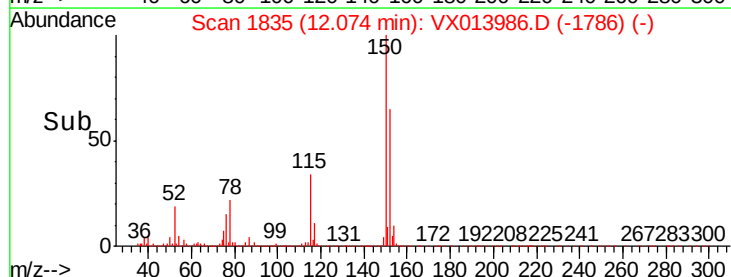
150 154.8 0.0 346.8

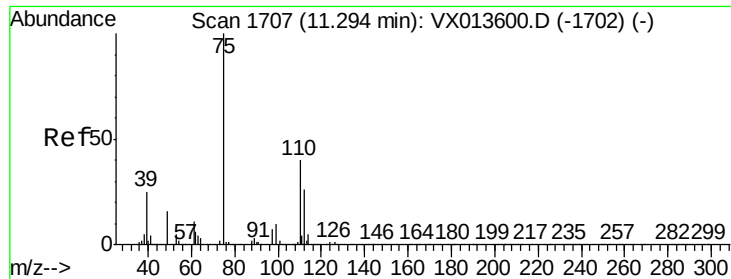


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

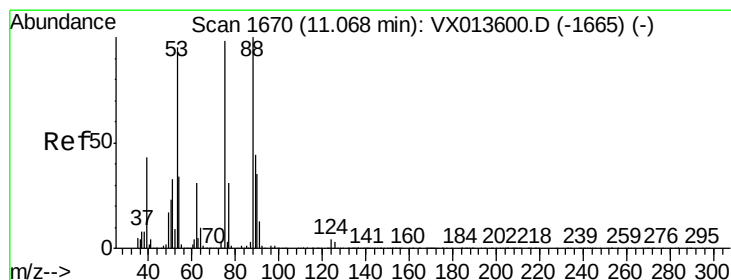
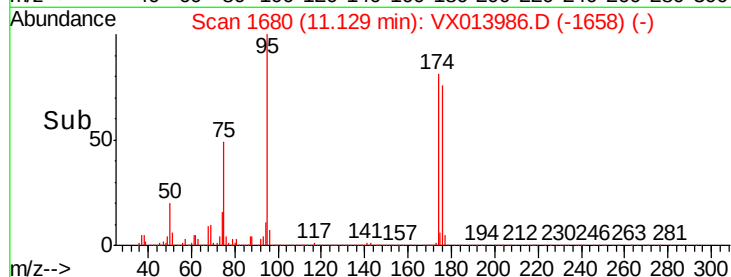
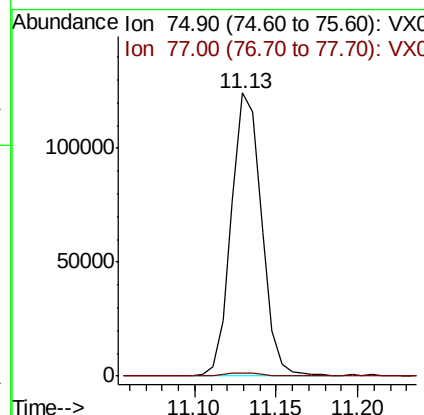
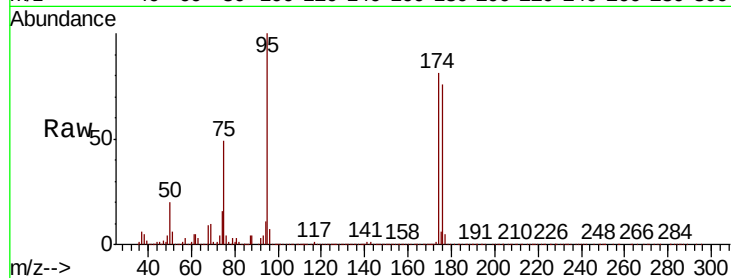




#76
 1,2,3-Trichloropropane
 Concen: 22.797 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX013986.D
 Acq: 12 Dec 2019 19:29

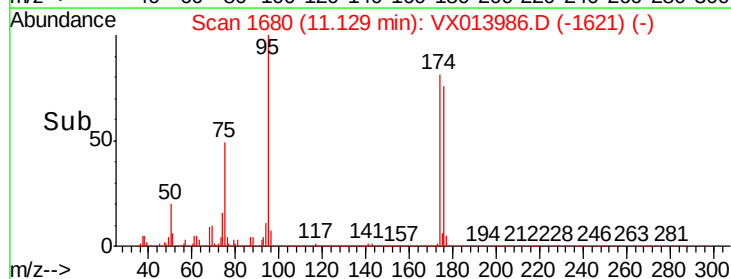
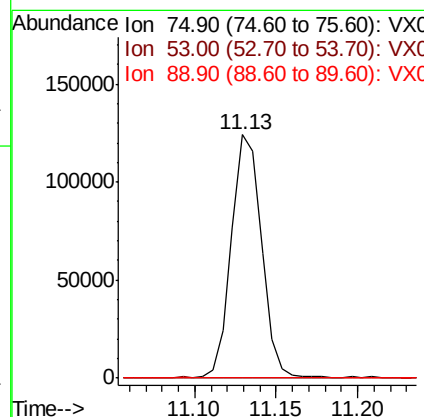
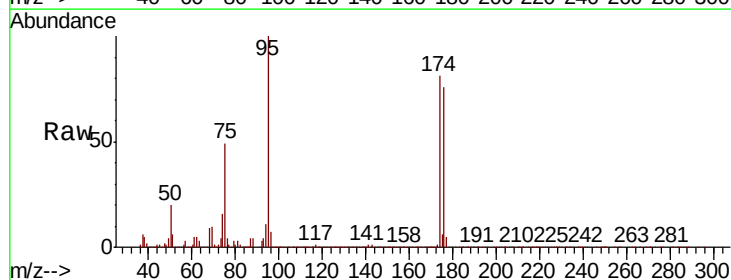
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20191210

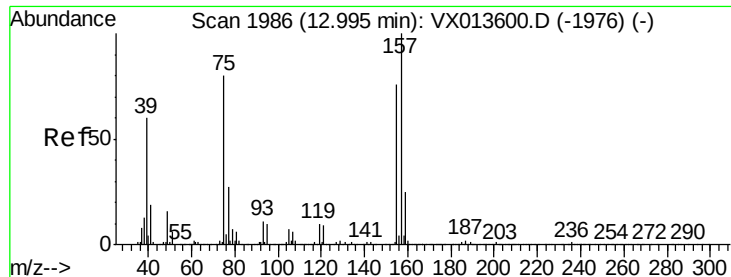
Tot Ion: 75 Resp: 159934
 Ion Ratio Lower Upper
 75 100
 77 1.8 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.369 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX013986.D
 Acq: 12 Dec 2019 19:29

Tgt Ion: 75 Resp: 159934
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.2 117.2#
 89 0.0 35.4 53.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.212 ug/l

RT: 12.98 min Scan# 1984

Delta R.T. -0.01 min

Lab File: VX013986.D

Acq: 12 Dec 2019 19:29

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20191210

Tot Ion: 75 Resp: 351

Ion Ratio Lower Upper

75 100

155 72.6 47.6 142.8

157 0.0 62.1 186.2#

