

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022620\
 Data File : VX015025.D
 Acq On : 26 Feb 2020 16:52
 Operator : JC/SP
 Sample : L1683-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 27 02:57:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	418325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	653132	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	634446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	337377	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	233711	49.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.00%	
35) Dibromofluoromethane	5.50	113	200989	50.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.12%	
50) Toluene-d8	8.71	98	786551	51.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.64%	
62) 4-Bromofluorobenzene	11.14	95	296699	53.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.48%	

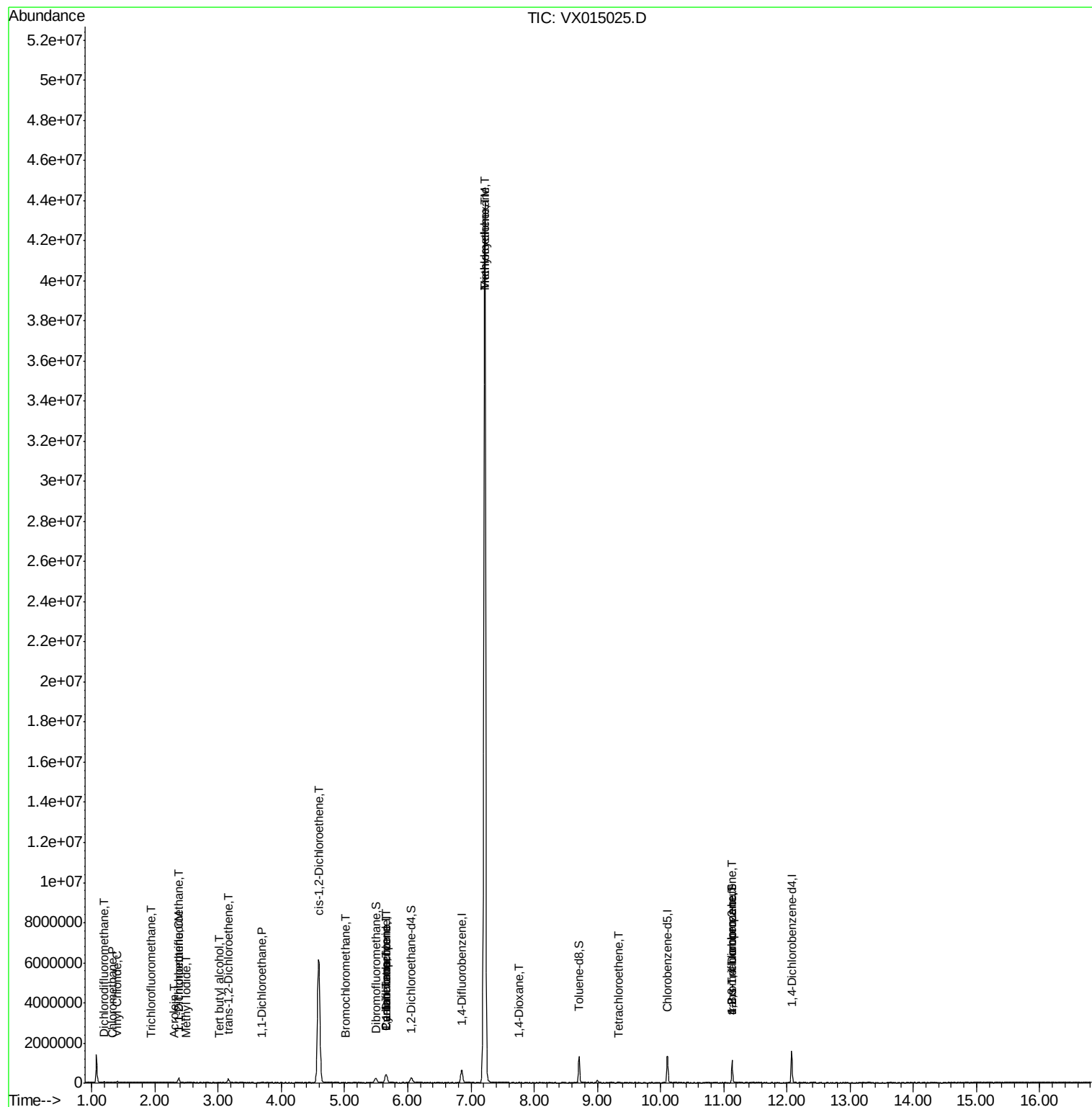
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	30785	7.771	ug/l	98
3) Chloromethane	1.32	50	1594	0.355	ug/l #	72
4) Vinyl Chloride	1.40	62	31095	6.427	ug/l	99
7) Trichlorofluoromethane	1.93	101	2730	0.404	ug/l #	83
9) 1,1,2-Trichlorotrifluoroet	2.38	101	36469	9.294	ug/l	98
10) Methyl Iodide	2.48	142	290	4.429	ug/l #	45
11) Tert butyl alcohol	3.02	59	177	0.212	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	71781	18.720	ug/l	99
13) Acrolein	2.31	56	176	0.277	ug/l #	63
16) Acetone	2.44	43	1330	Below Cal		96
21) trans-1,2-Dichloroethene	3.16	96	83675	19.777	ug/l	96
24) 1,1-Dichloroethane	3.69	63	2100	0.287	ug/l #	83
27) cis-1,2-Dichloroethene	4.59	96	3951625	835.534	ug/l	88
28) Bromochloromethane	5.02	49	883	0.311	ug/l #	41
31) Cyclohexane	5.65	56	7138	1.069	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	28559	4.888	ug/l #	51
38) Carbon Tetrachloride	5.66	117	36360	6.386	ug/l #	16
39) Methylcyclohexane	7.22	83	217878	29.818	ug/l #	1
44) Trichloroethene	7.22	130	17714892	3495.769	ug/l	95
49) 1,4-Dioxane	7.76	88	281	3.038	ug/l #	1
64) Tetrachloroethene	9.33	164	6611	1.114	ug/l #	80
76) 1,2,3-Trichloropropane	11.13	75	144936	23.757	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	144936	60.810	ug/l #	12

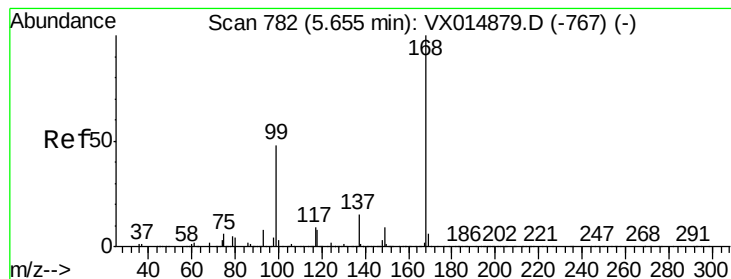
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX022620\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 783

Delta R.T. 0.01 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

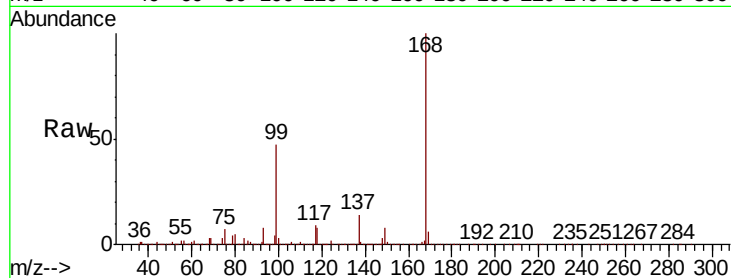
ClientSampleId :

Tot Ion:168 Resp: 418325

Ion Ratio Lower Upper

168 100

99 47.2 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

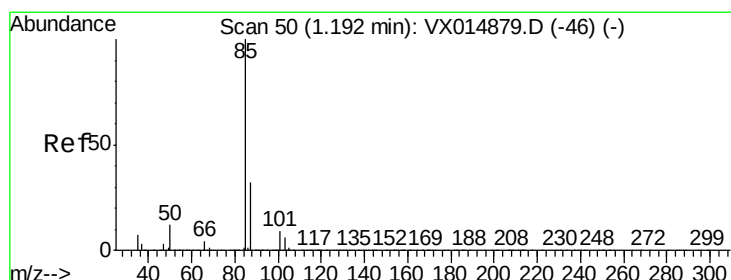
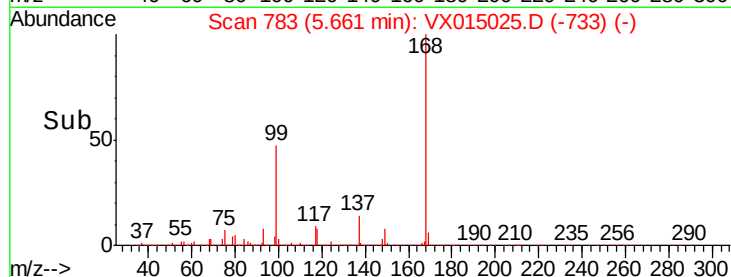
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 7.771 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015025.D

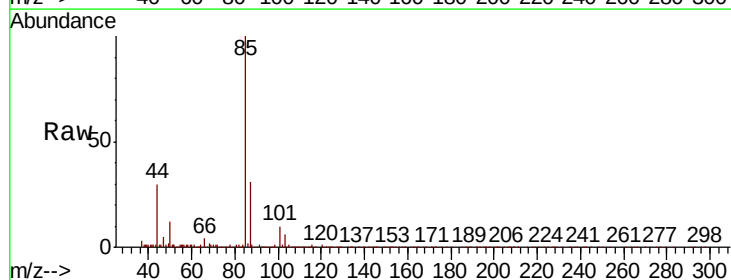
Acq: 26 Feb 2020 16:52

Tgt Ion: 85 Resp: 30785

Ion Ratio Lower Upper

85 100

87 30.8 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

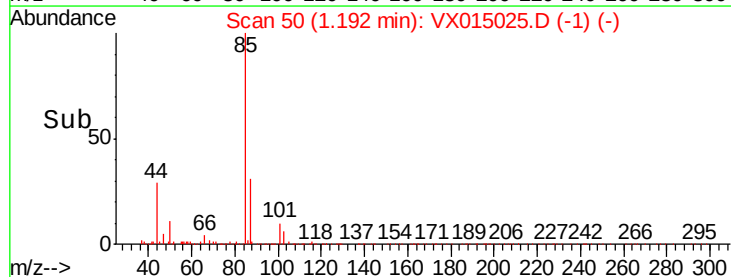
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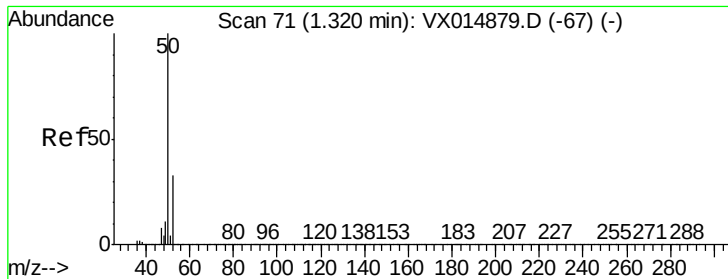
20000

10000

0

Time-->





#3

Chloromethane

Concen: 0.355 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

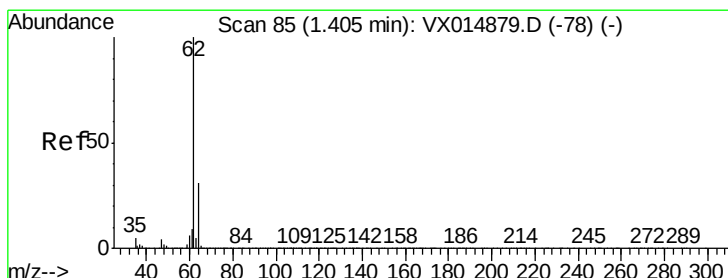
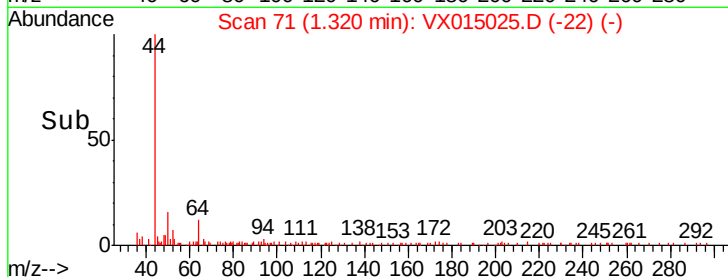
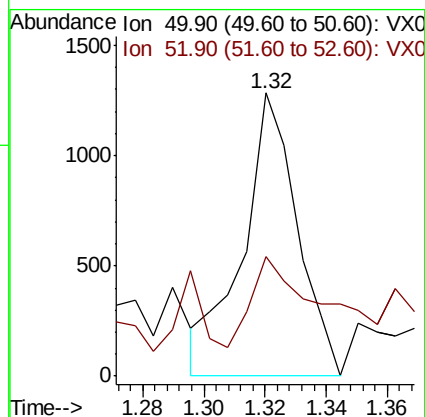
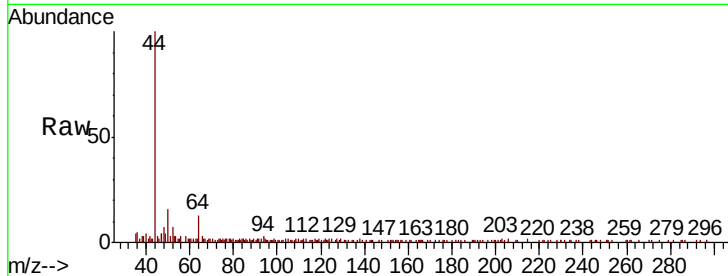
ClientSampleId :

Tot Ion: 50 Resp: 1594

Ion Ratio Lower Upper

50 100

52 16.7 26.2 39.2#



#4

Vinyl Chloride

Concen: 6.427 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.01 min

Lab File: VX015025.D

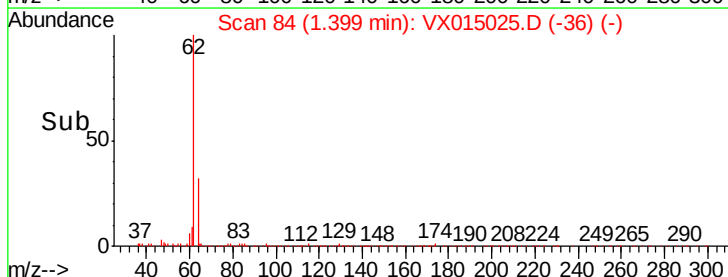
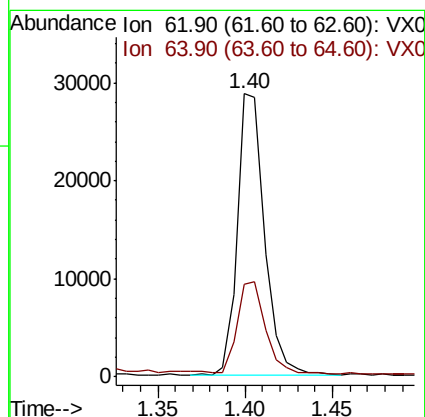
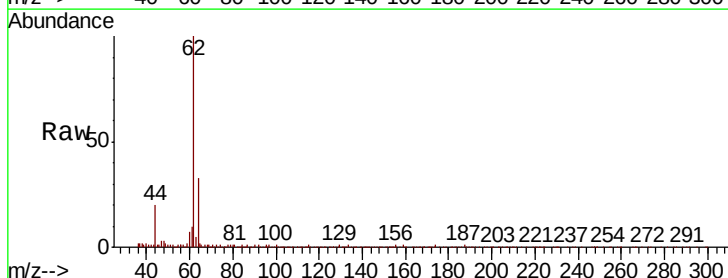
Acq: 26 Feb 2020 16:52

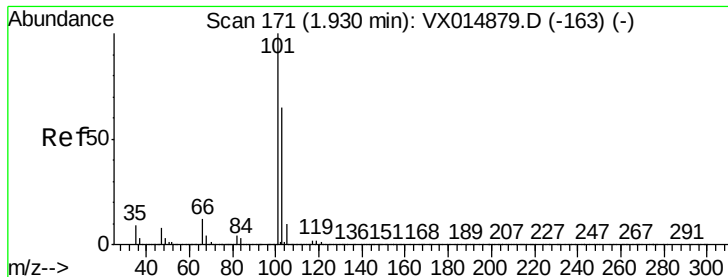
Tgt Ion: 62 Resp: 31095

Ion Ratio Lower Upper

62 100

64 31.7 24.8 37.2



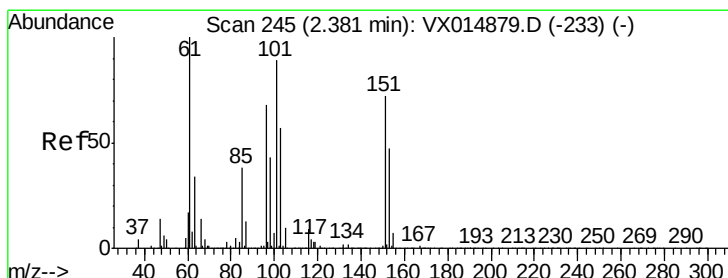
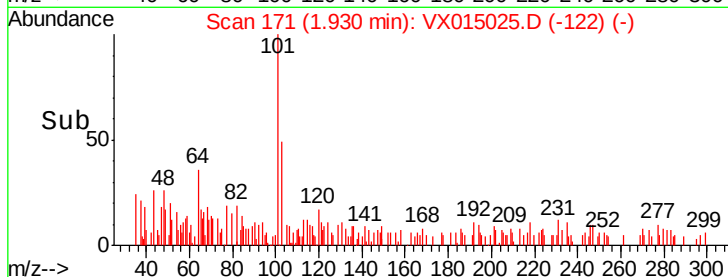
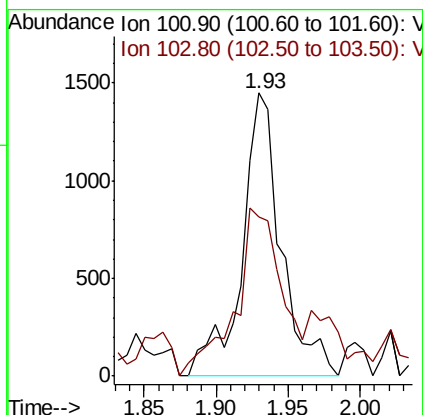
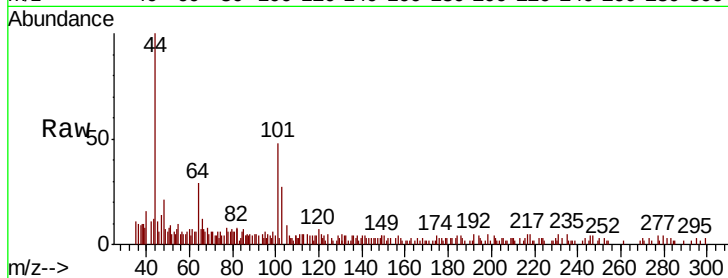


#7

Trichlorofluoromethane
Concen: 0.404 ug/l
RT: 1.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: VX015025.D
Acq: 26 Feb 2020 16:52

Instrument :
MSVOA_X
ClientSampleId :

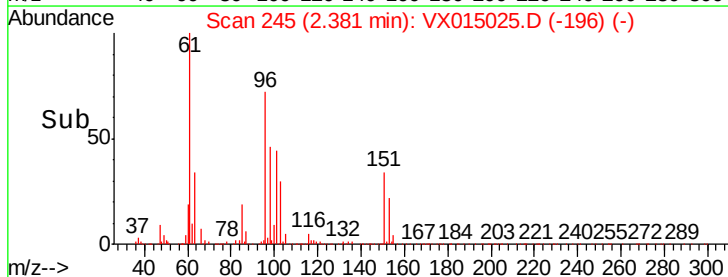
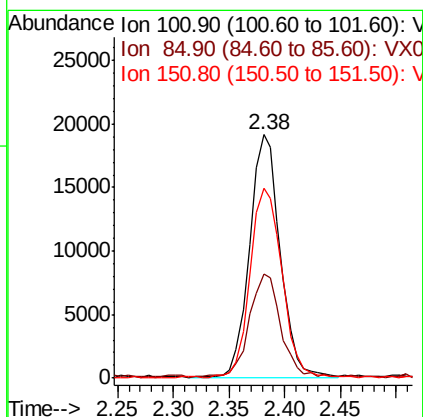
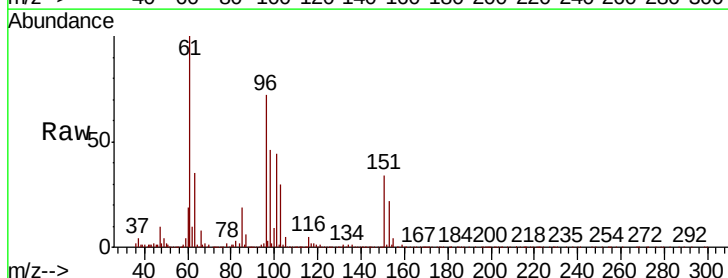
Tot Ion:101 Resp: 2730
Ion Ratio Lower Upper
101 100
103 51.8 52.2 78.4#

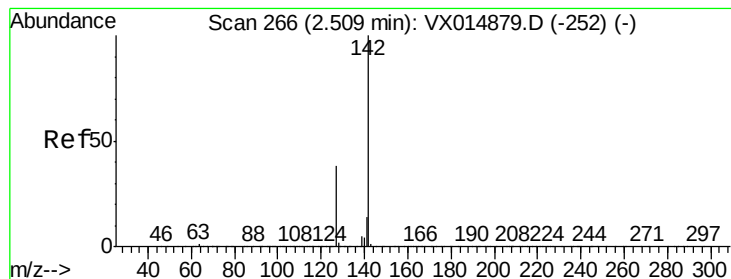


#9

1,1,2-Trichlorotrifluoroethane
Concen: 9.294 ug/l
RT: 2.38 min Scan# 245
Delta R.T. 0.00 min
Lab File: VX015025.D
Acq: 26 Feb 2020 16:52

Tgt Ion:101 Resp: 36469
Ion Ratio Lower Upper
101 100
85 43.9 34.1 51.1
151 82.9 67.3 100.9





#10

Methyl Iodide

Concen: 4.429 ug/l

RT: 2.48 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampled :

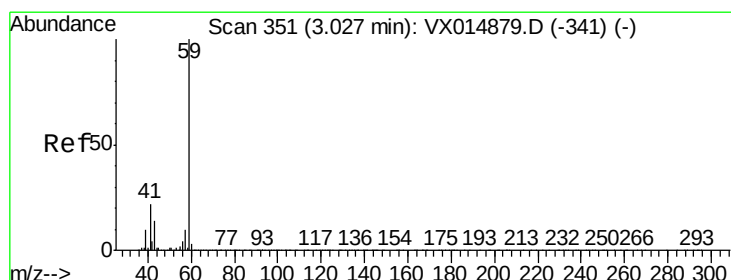
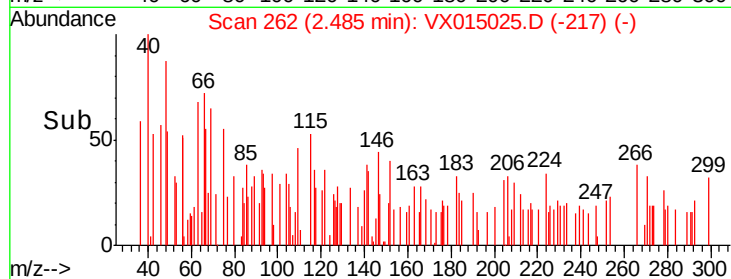
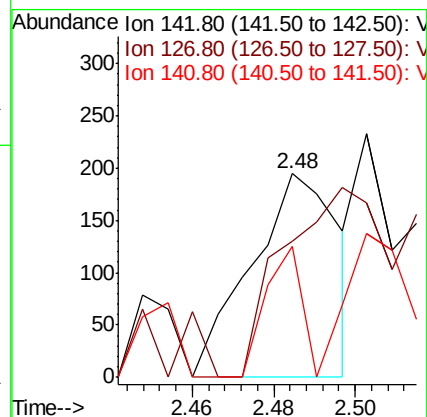
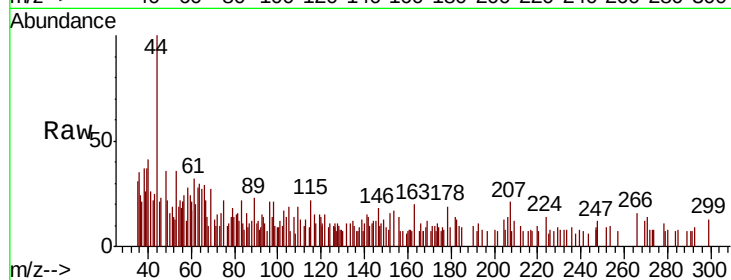
Tot Ion:142 Resp: 290

Ion Ratio Lower Upper

142 100

127 0.0 31.1 46.7#

141 26.9 11.3 16.9#



#11

Tert butyl alcohol

Concen: 0.212 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX015025.D

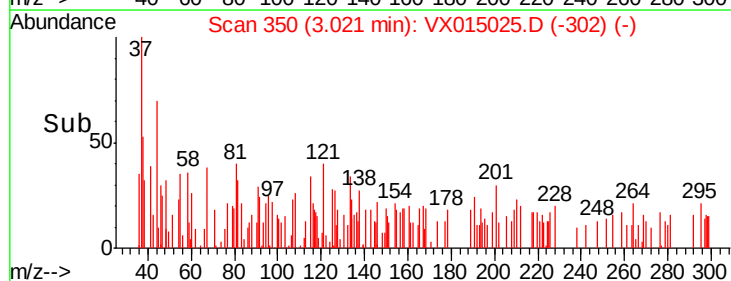
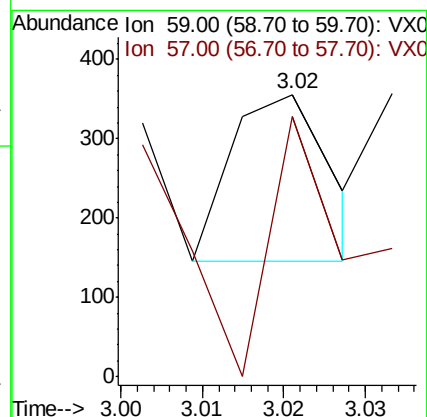
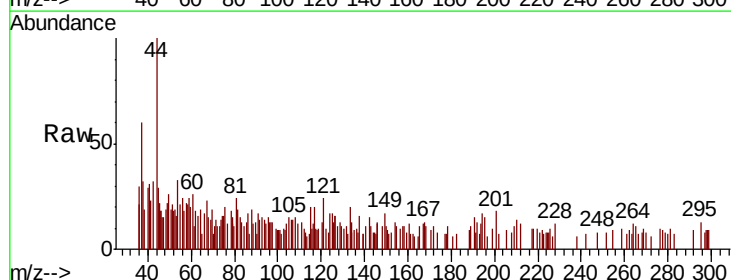
Acq: 26 Feb 2020 16:52

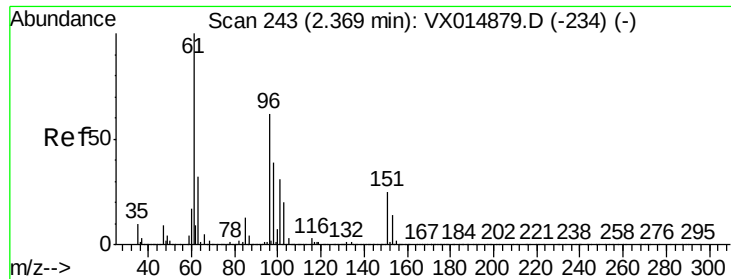
Tgt Ion: 59 Resp: 177

Ion Ratio Lower Upper

59 100

57 131.6 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 18.720 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampled :

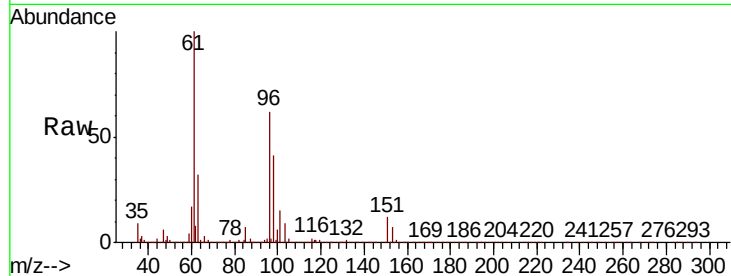
Tot Ion: 96 Resp: 71781

Ion Ratio Lower Upper

96 100

61 161.0 129.5 194.3

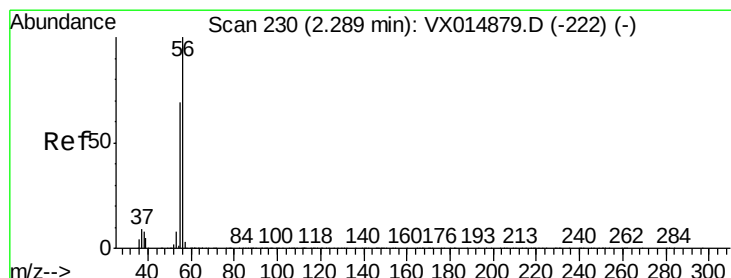
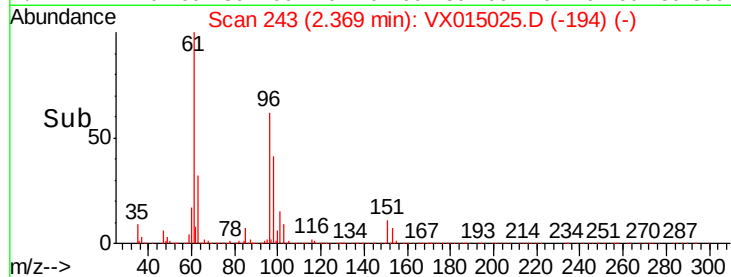
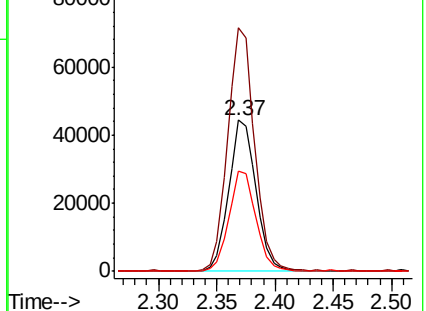
98 65.9 50.6 76.0



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: 0.277 ug/l

RT: 2.31 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX015025.D

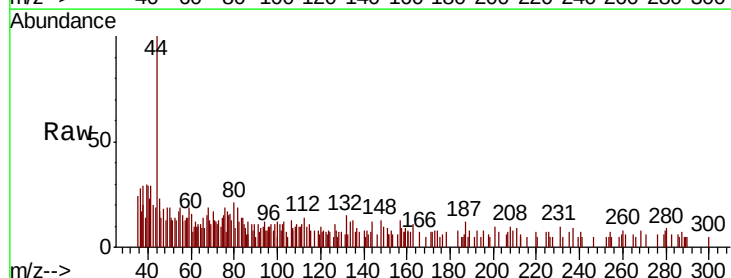
Acq: 26 Feb 2020 16:52

Tgt Ion: 56 Resp: 176

Ion Ratio Lower Upper

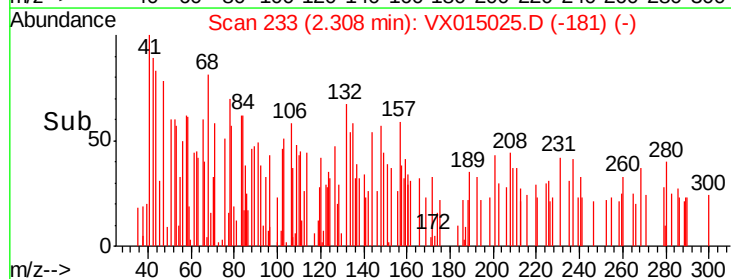
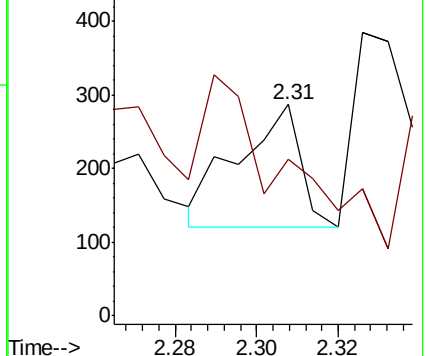
56 100

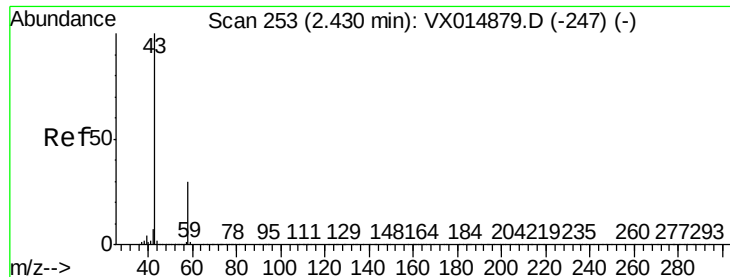
55 98.9 55.0 82.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

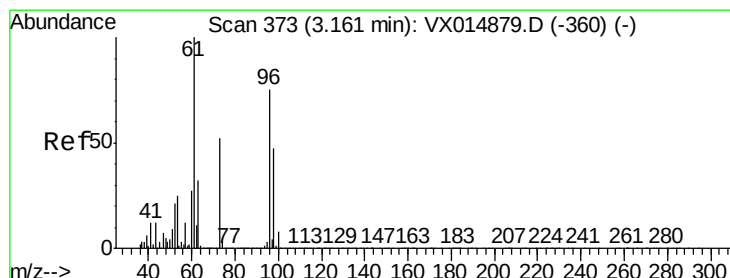
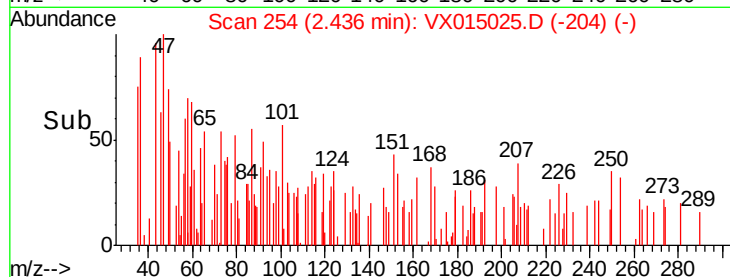
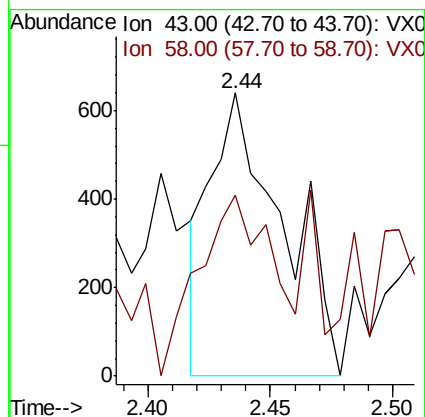
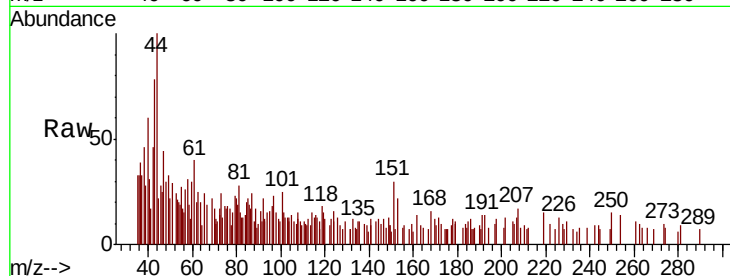
ClientSampled :

Tot Ion: 43 Resp: 1330

Ion Ratio Lower Upper

43 100

58 27.7 24.1 36.1



#21

trans-1,2-Dichloroethene

Concen: 19.777 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

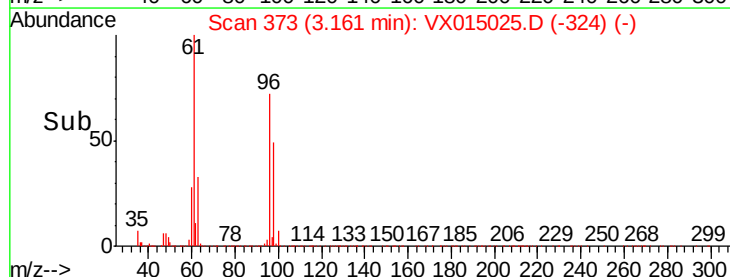
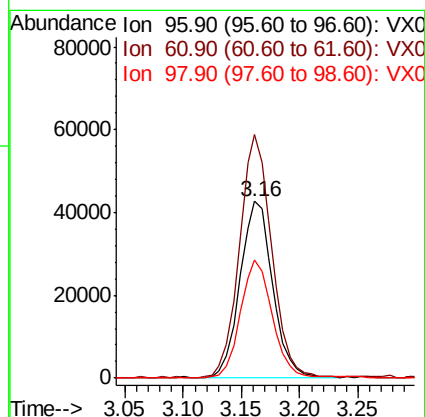
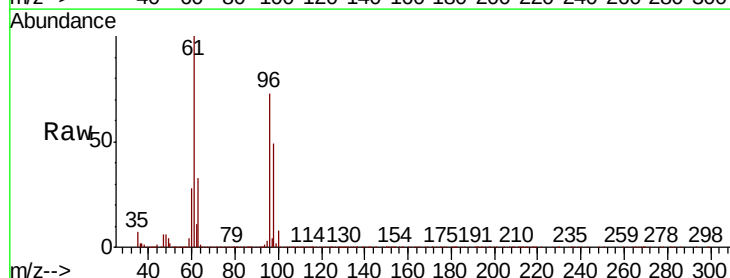
Tgt Ion: 96 Resp: 83675

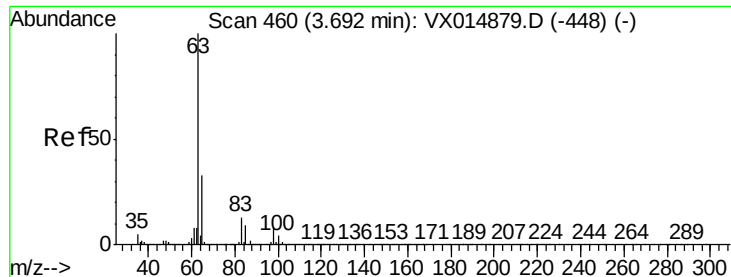
Ion Ratio Lower Upper

96 100

61 137.8 106.9 160.3

98 66.9 50.7 76.1





#24

1,1-Dichloroethane

Concen: 0.287 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.01 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampled :

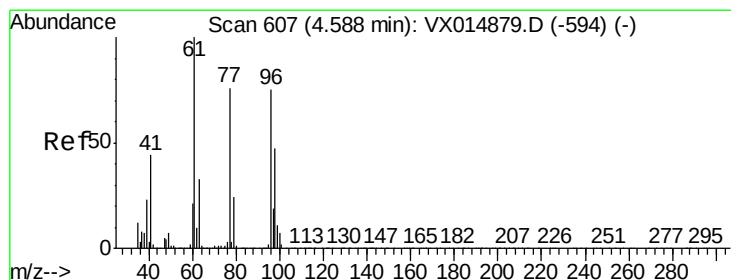
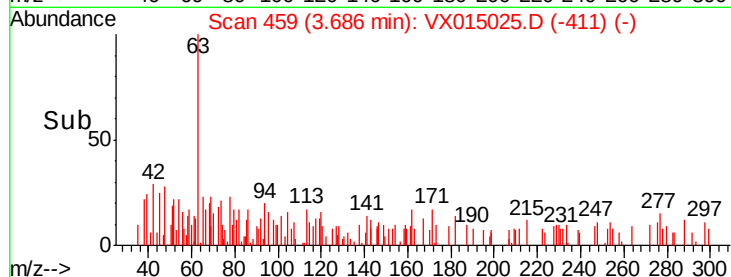
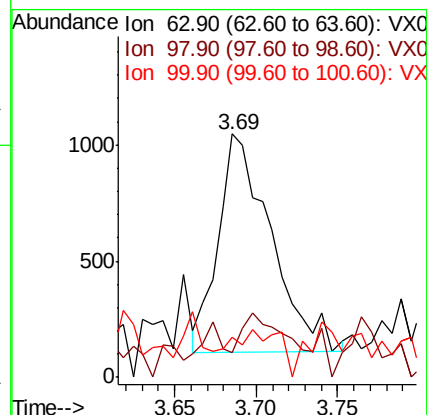
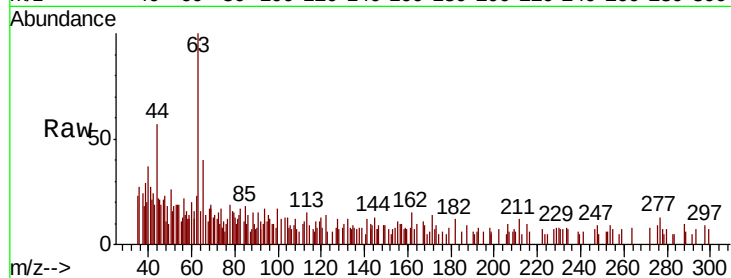
Tot Ion: 63 Resp: 2100

Ion Ratio Lower Upper

63 100

98 0.8 3.9 11.5#

100 0.0 2.2 6.6#



#27

cis-1,2-Dichloroethene

Concen: 835.534 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

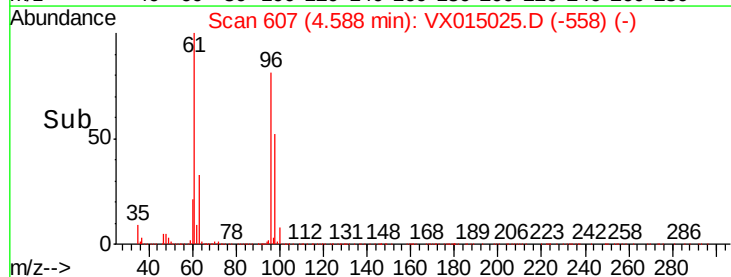
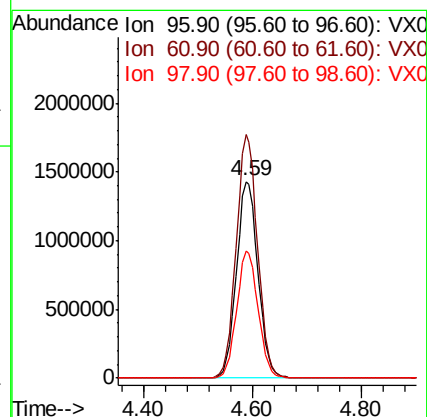
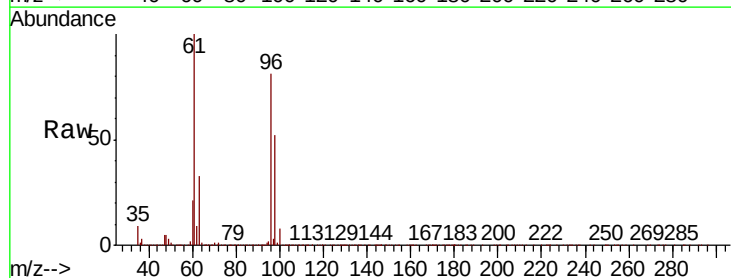
Tgt Ion: 96 Resp: 3951625

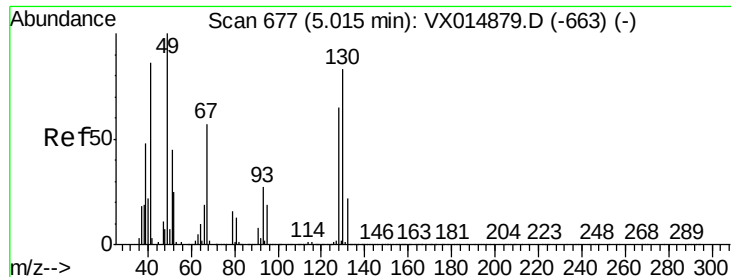
Ion Ratio Lower Upper

96 100

61 123.1 0.0 286.2

98 64.3 0.0 131.0





#28

Bromochloromethane

Concen: 0.311 ug/l

RT: 5.02 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampled :

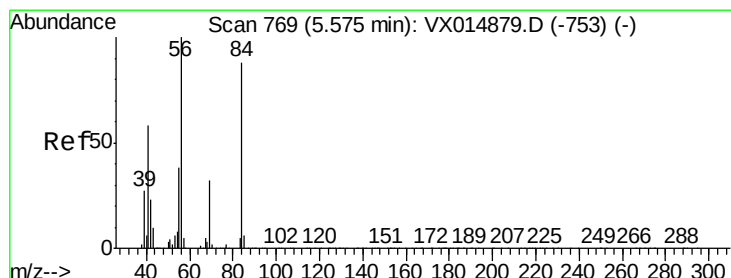
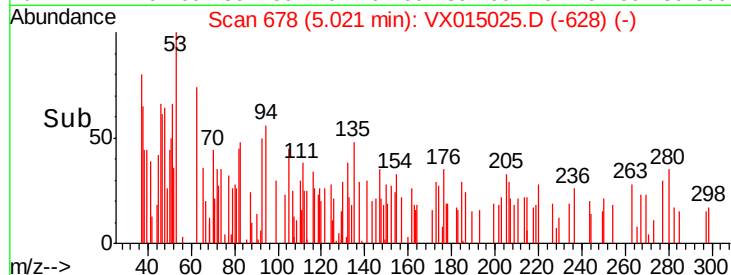
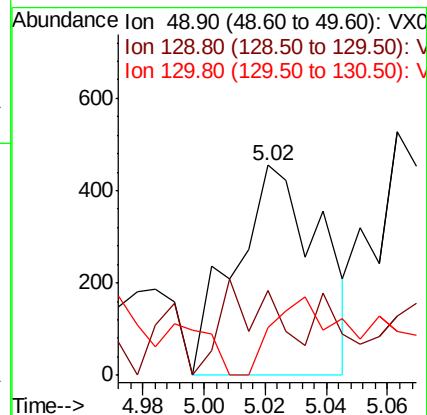
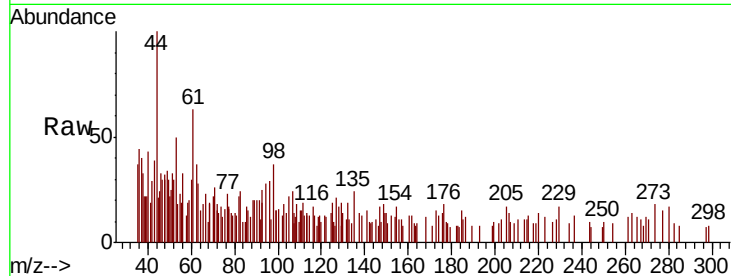
Tot Ion: 49 Resp: 883

Ion Ratio Lower Upper

49 100

129 5.8 0.0 5.2#

130 29.4 67.4 101.2#



#31

Cyclohexane

Concen: 1.069 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.07 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

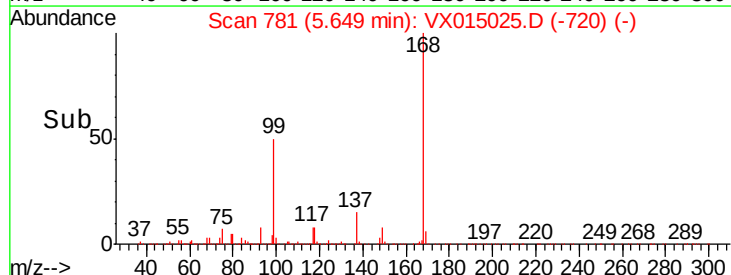
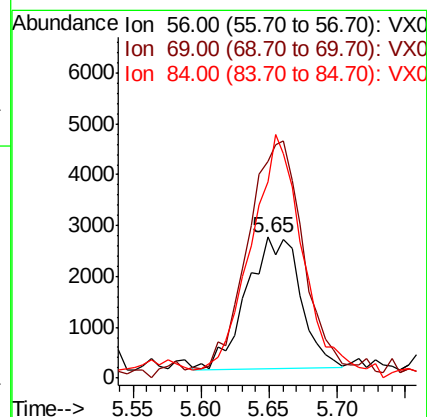
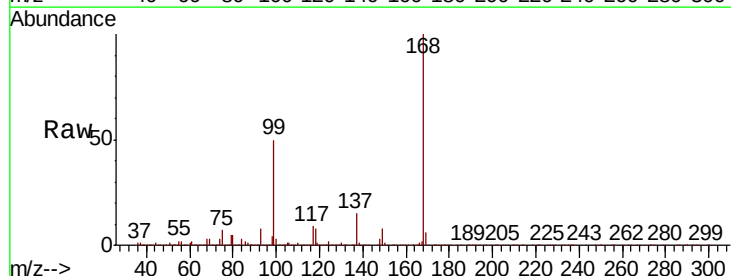
Tgt Ion: 56 Resp: 7138

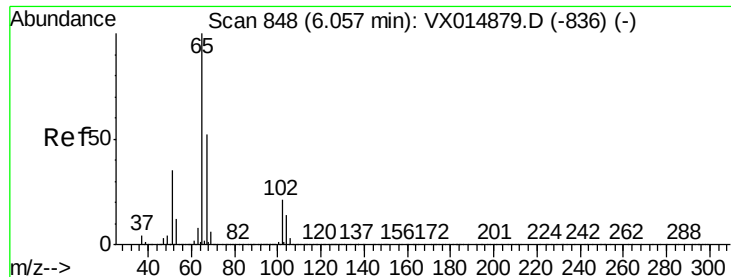
Ion Ratio Lower Upper

56 100

69 158.0 25.9 38.9#

84 144.3 70.4 105.6#

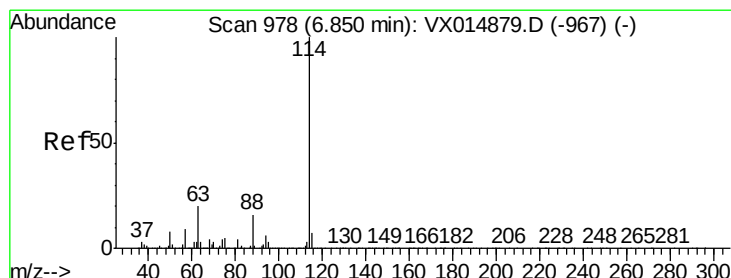
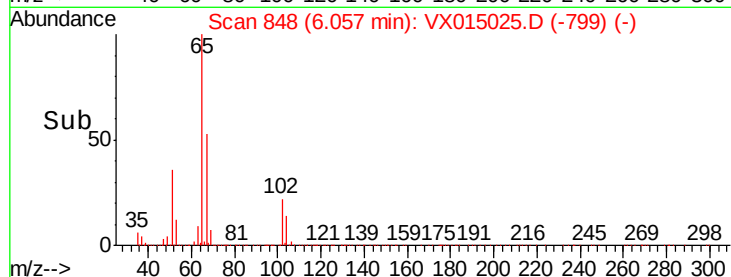
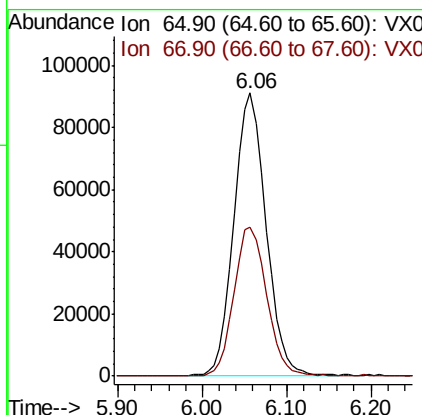
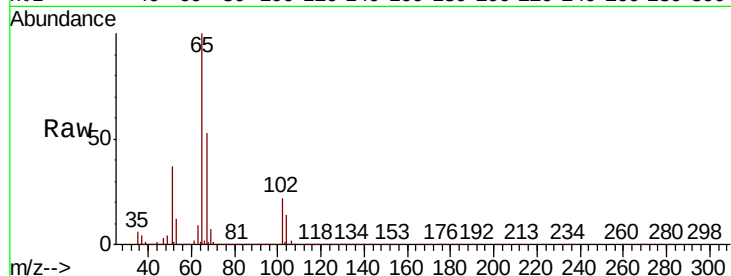




#33
 1,2-Dichloroethane-d4
 Concen: 49.503 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.00 min
 Lab File: VX015025.D
 Acq: 26 Feb 2020 16:52

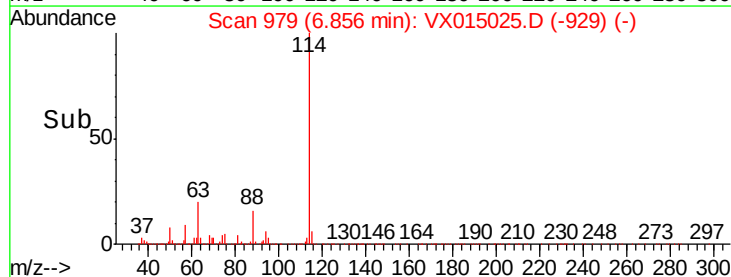
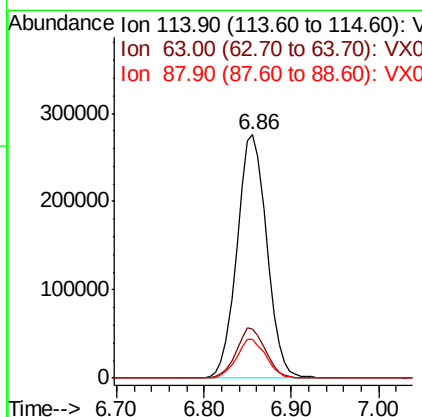
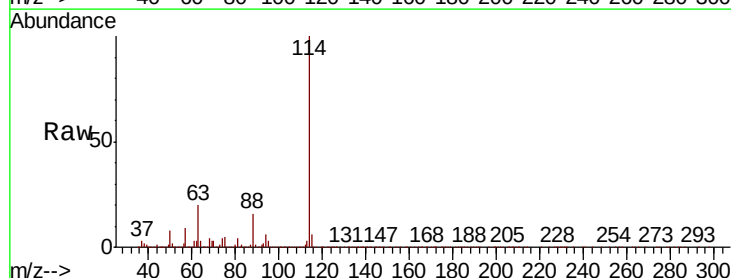
Instrument :
 MSVOA_X
 ClientSampled :

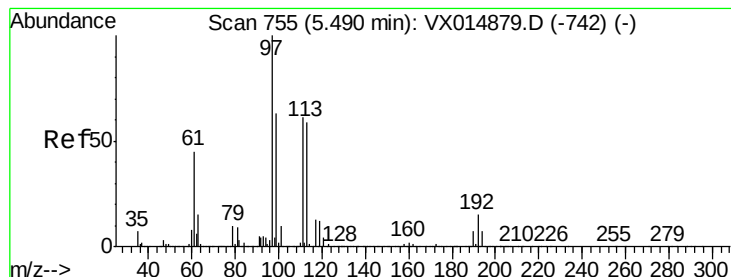
Tot Ion: 65 Resp: 233711
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX015025.D
 Acq: 26 Feb 2020 16:52

Tgt Ion: 114 Resp: 653132
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.2
 88 15.8 0.0 32.0





#35

Dibromofluoromethane

Concen: 50.056 ug/l

RT: 5.50 min Scan# 756

Delta R.T. 0.01 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

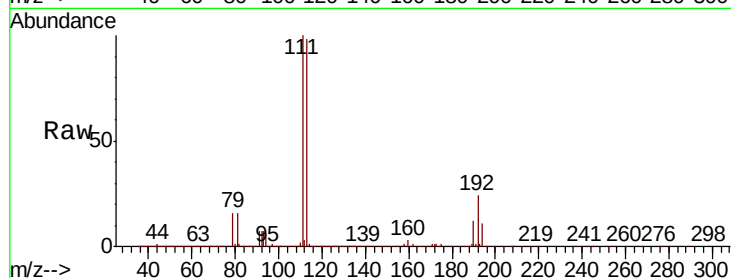
Tot Ion:113 Resp: 200989

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

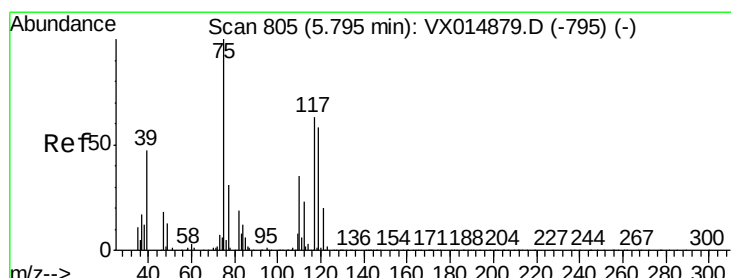
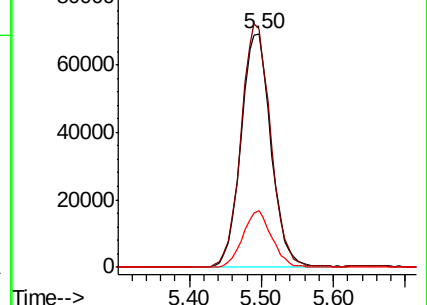
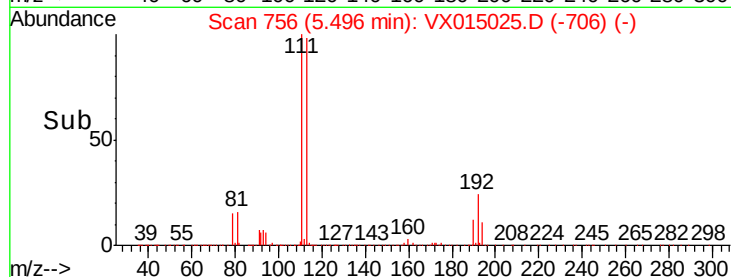
192 23.0 19.1 28.7



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: 4.888 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

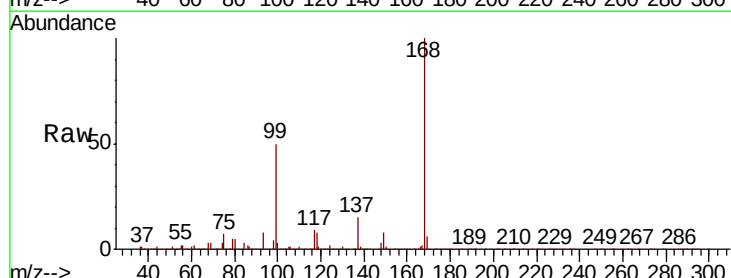
Tgt Ion: 75 Resp: 28559

Ion Ratio Lower Upper

75 100

110 10.7 18.3 54.8#

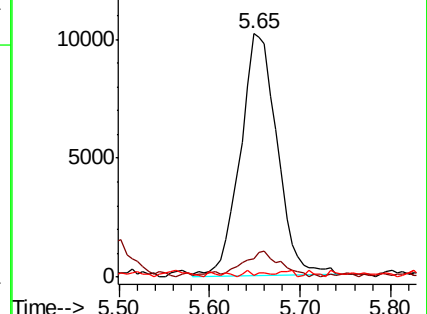
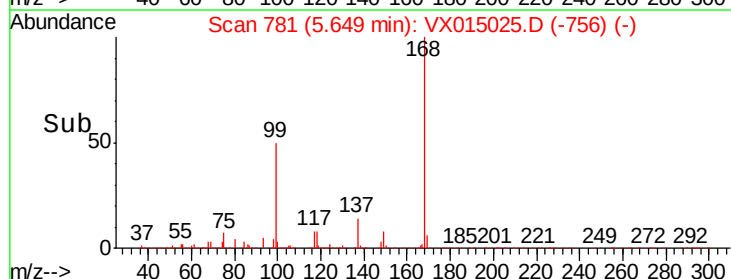
77 0.6 24.6 36.8#

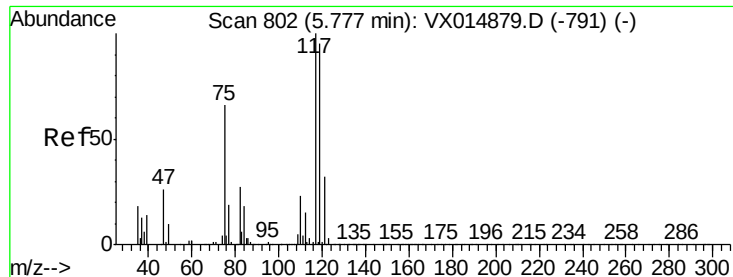


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.386 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.12 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

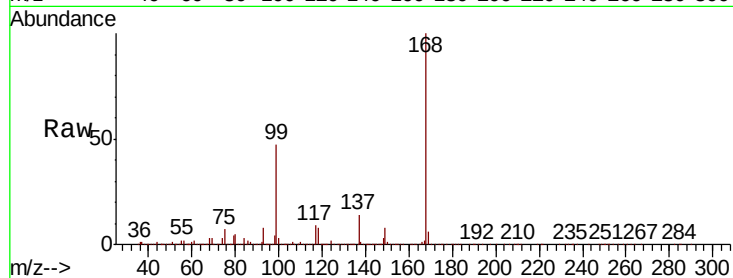
Tot Ion:117 Resp: 36360

Ion Ratio Lower Upper

117 100

119 3.7 76.0 114.0#

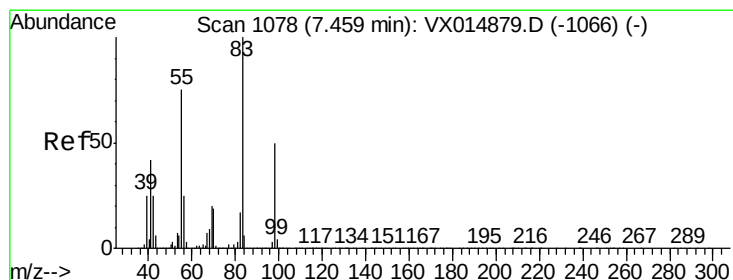
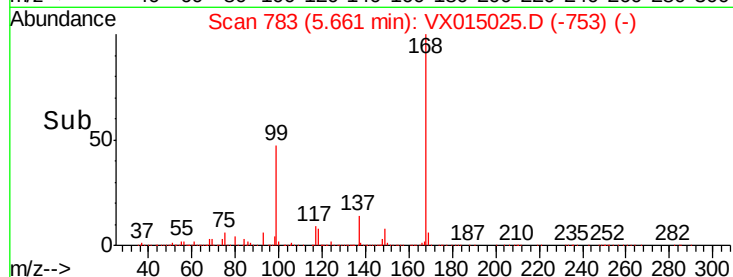
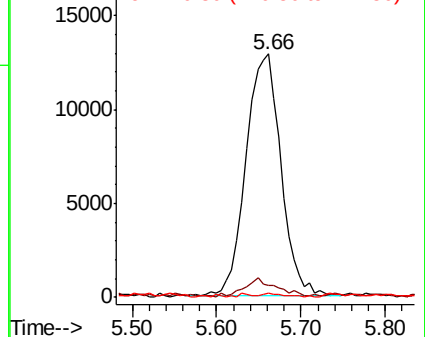
121 1.3 25.4 38.2#



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



#39

Methylcyclohexane

Concen: 29.818 ug/l

RT: 7.22 min Scan# 1039

Delta R.T. -0.24 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

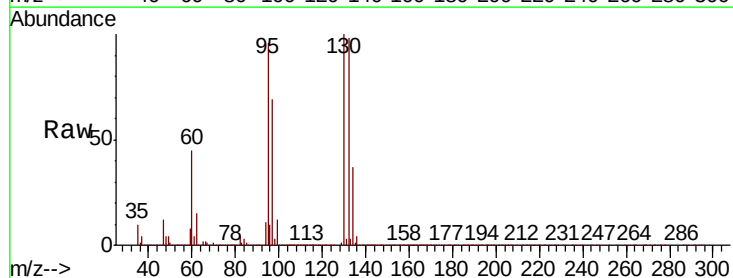
Tgt Ion: 83 Resp: 217878

Ion Ratio Lower Upper

83 100

55 0.3 60.0 90.0#

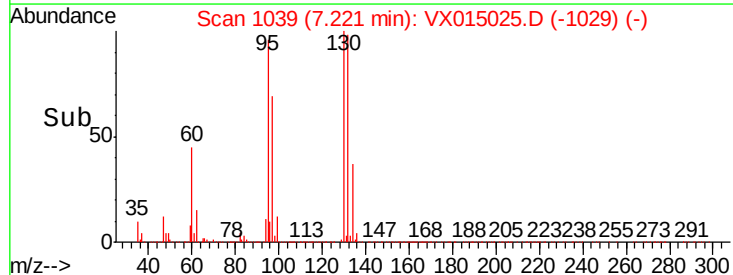
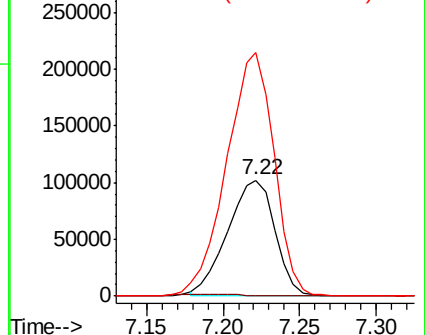
98 209.8 39.6 59.4#

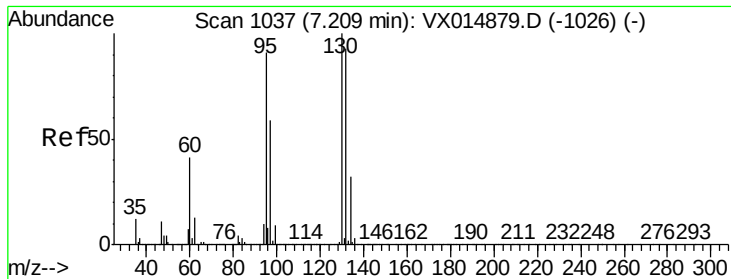


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 3495.769 ug/l

RT: 7.22 min Scan# 1039

Delta R.T. 0.01 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

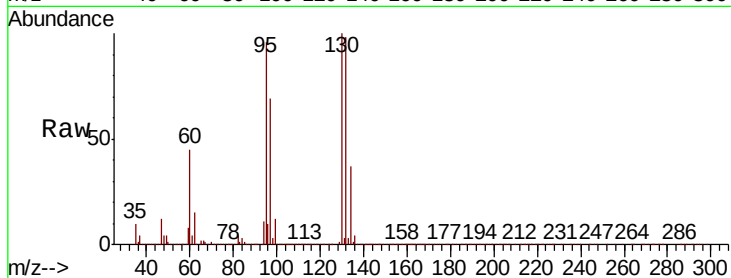
ClientSampled :

Tot Ion:130 Resp:17714892

Ion Ratio Lower Upper

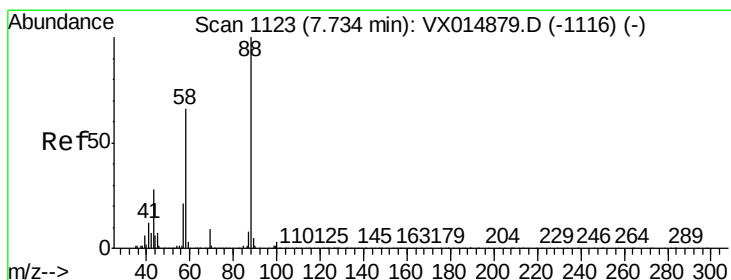
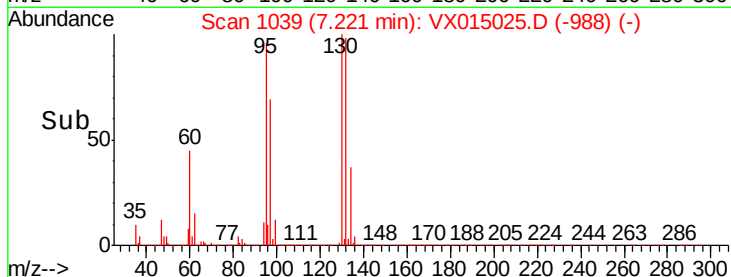
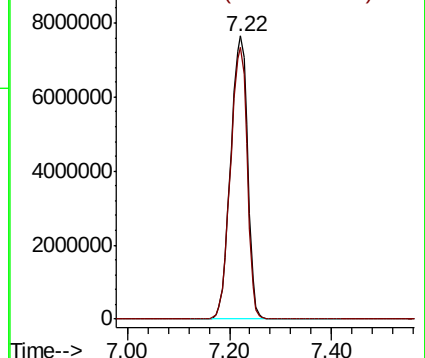
130 100

95 96.2 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 3.038 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.03 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

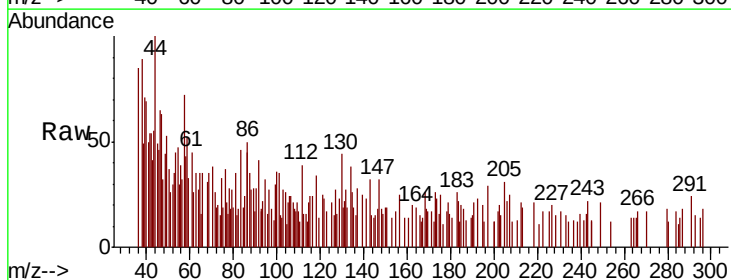
Tgt Ion: 88 Resp: 281

Ion Ratio Lower Upper

88 100

43 0.0 27.0 40.4#

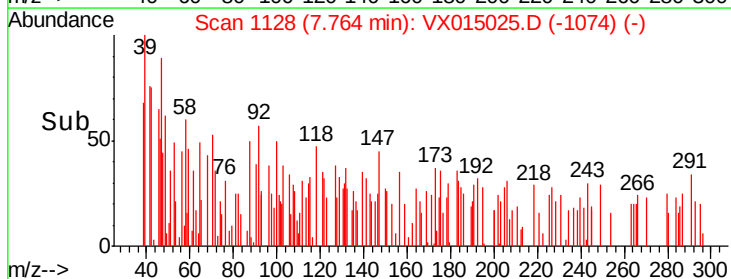
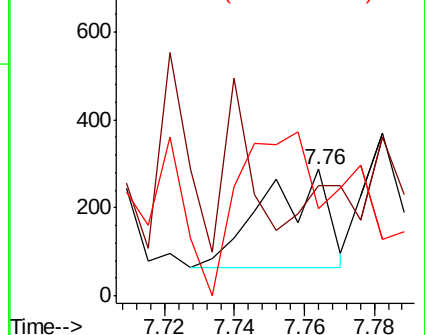
58 302.8 53.2 79.8#

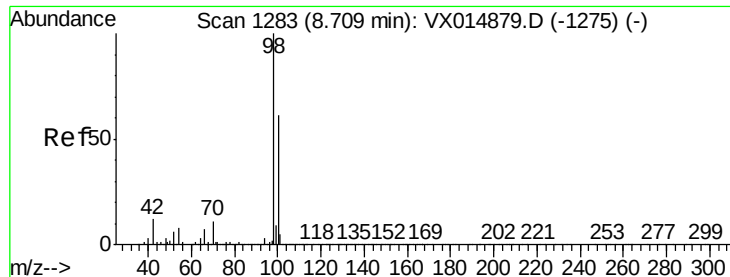


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

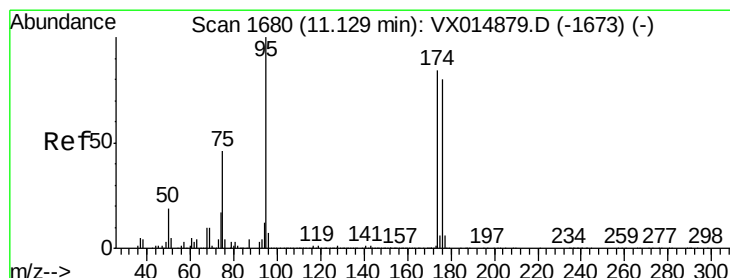
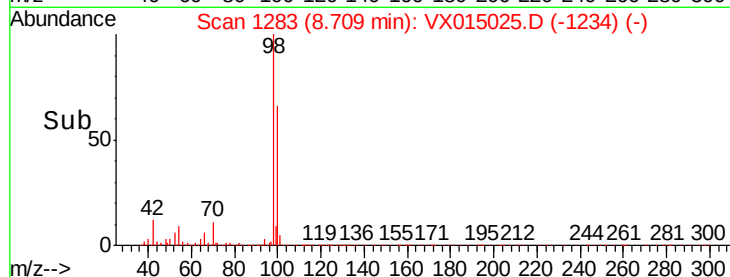
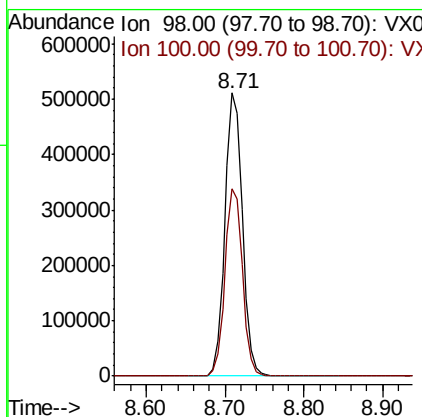
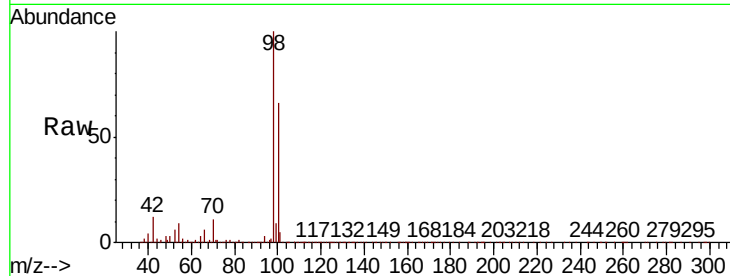




#50
Toluene-d8
Concen: 51.319 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX015025.D
Acq: 26 Feb 2020 16:52

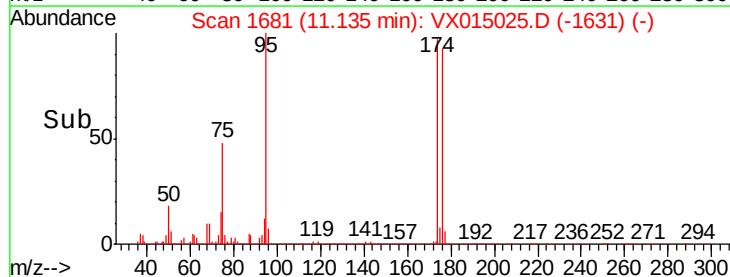
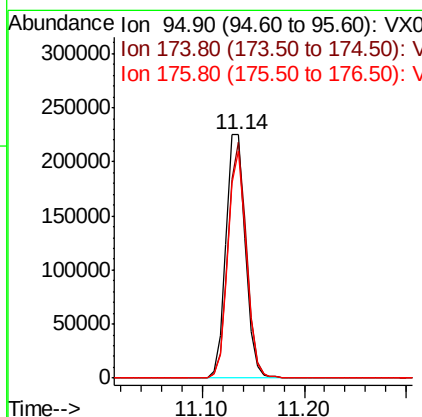
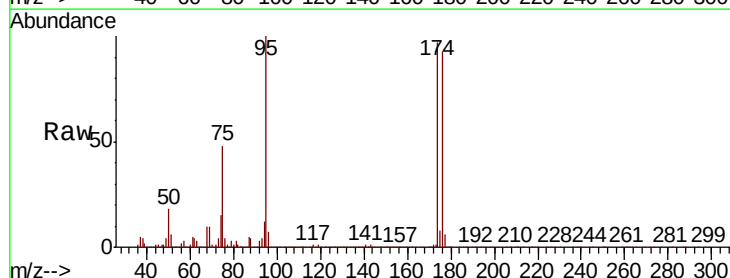
Instrument :
MSVOA_X
ClientSampleId :

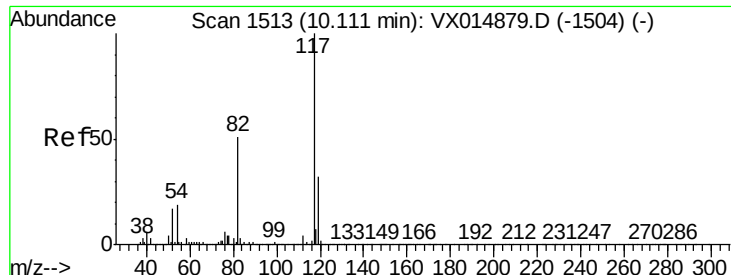
Tot Ion: 98 Resp: 786551
Ion Ratio Lower Upper
98 100
100 66.3 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 53.738 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX015025.D
Acq: 26 Feb 2020 16:52

Tgt Ion: 95 Resp: 296699
Ion Ratio Lower Upper
95 100
174 91.6 0.0 183.0
176 88.3 0.0 178.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

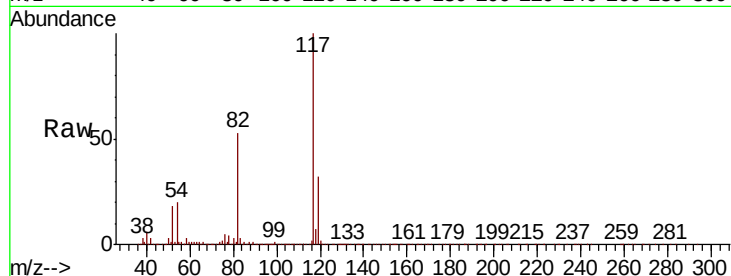
Tot Ion:117 Resp: 634446

Ion Ratio Lower Upper

117 100

82 53.3 40.5 60.7

119 32.2 25.8 38.6

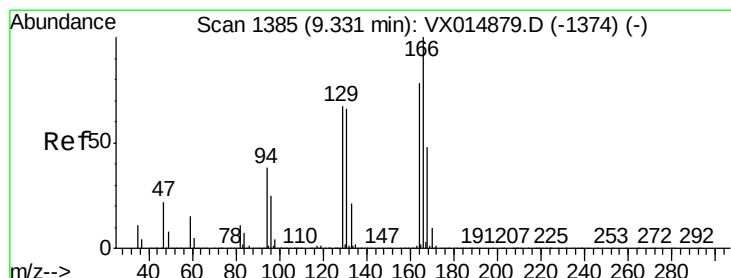
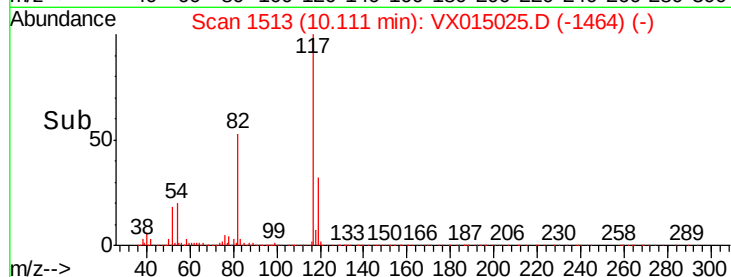
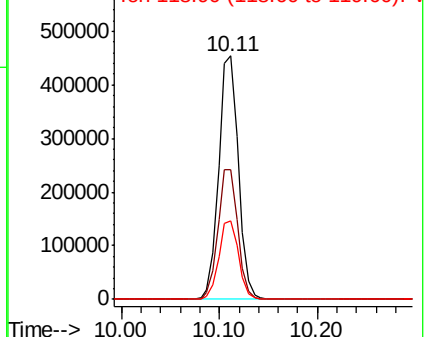


Abundance

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: 1.114 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Tgt Ion:164 Resp: 6611

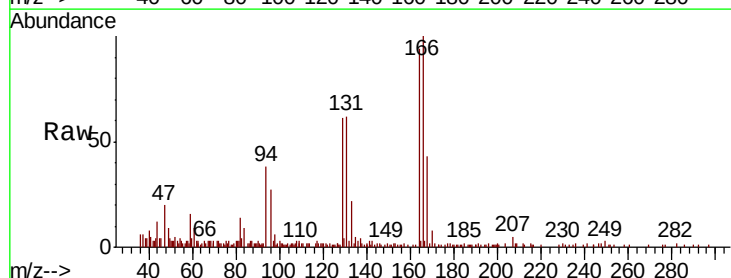
Ion Ratio Lower Upper

164 100

166 107.5 102.6 153.8

129 64.7 68.3 102.5#

131 66.5 67.4 101.2#



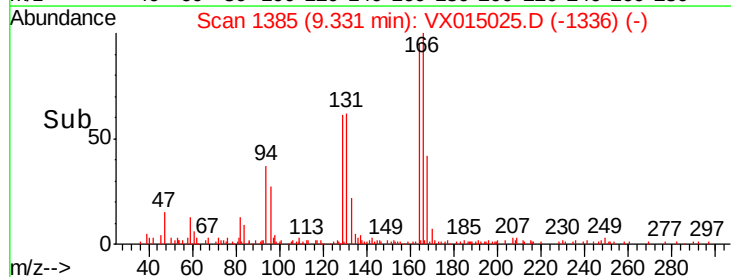
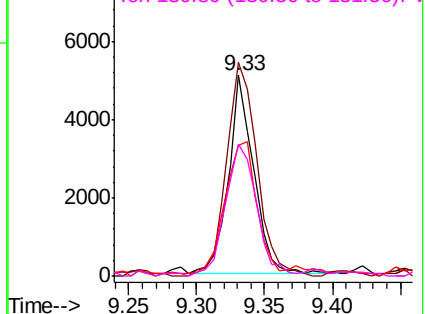
Abundance

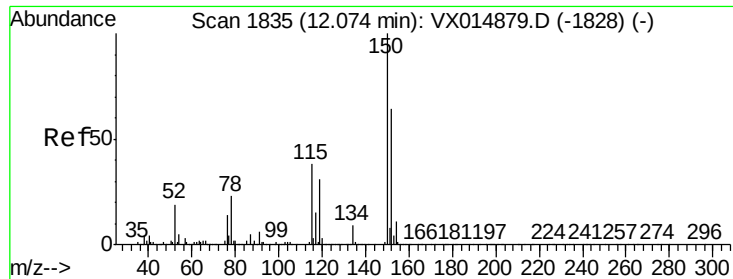
Ion 163.80 (163.50 to 164.50): V

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

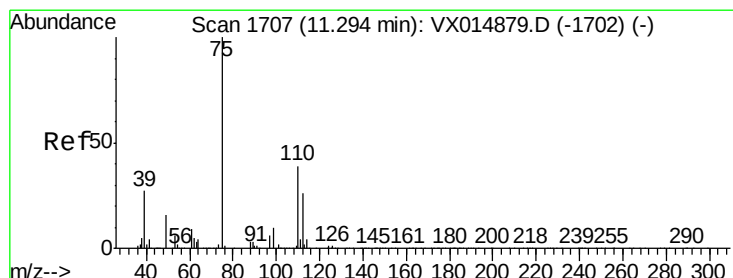
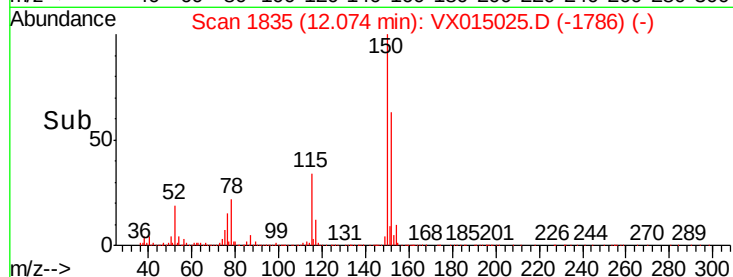
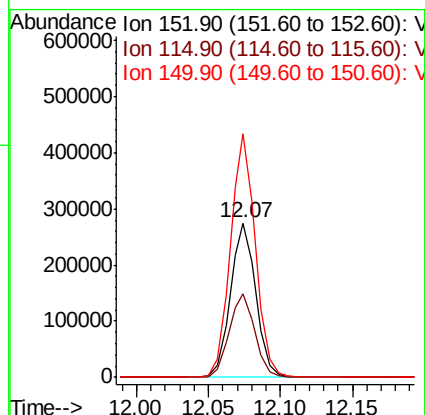
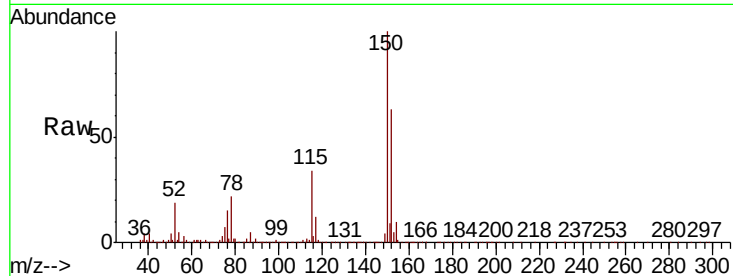




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX015025.D
 Acq: 26 Feb 2020 16:52

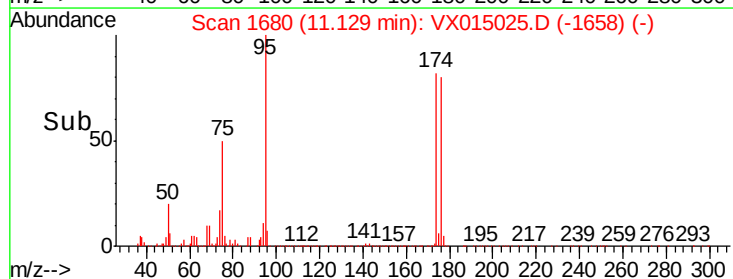
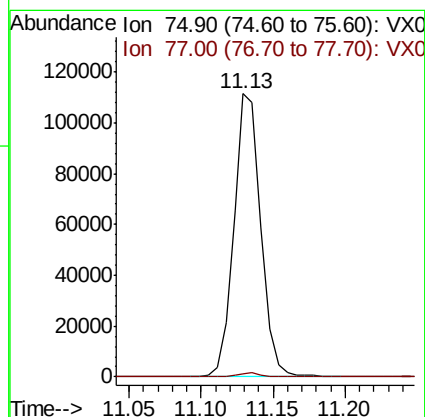
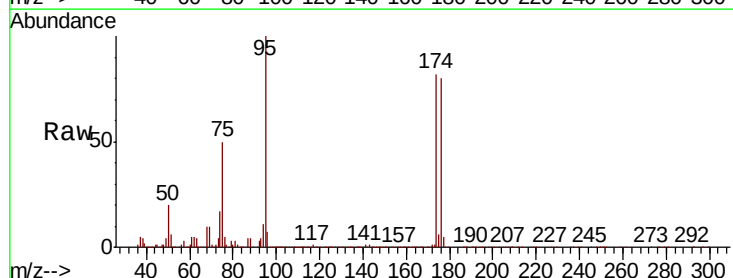
Instrument :
 MSVOA_X
 ClientSampleId :

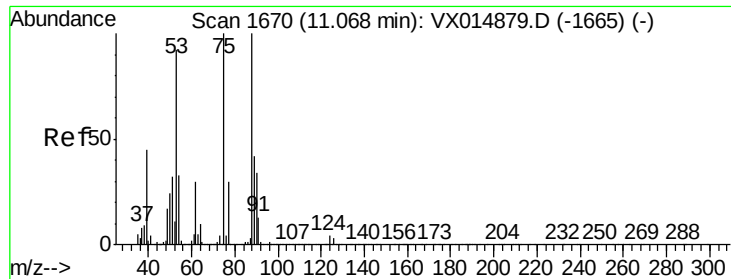
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.6	116.0
150	156.0	0.0	349.0



#76
 1,2,3-Trichloropropane
 Concen: 23.757 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX015025.D
 Acq: 26 Feb 2020 16:52

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	18.4	55.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.810 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015025.D

Acq: 26 Feb 2020 16:52

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 144936

Ion Ratio Lower Upper

75 100

53 0.3 76.2 114.2#

89 0.1 35.8 53.6#

