

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122719\
 Data File : VX014310.D
 Acq On : 27 Dec 2019 15:44
 Operator : JC/SP
 Sample : K6405-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1001-FB122019

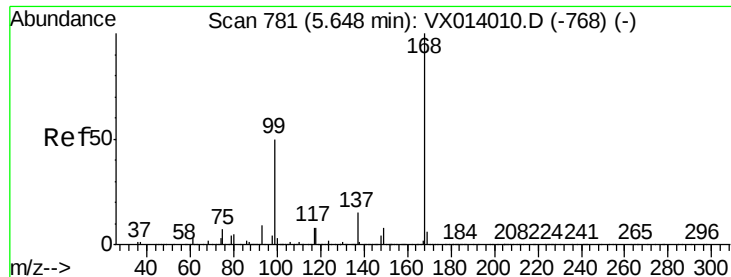
Quant Time: Dec 30 05:35:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	517477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	804362	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	720729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	310917	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	288992	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
35) Dibromofluoromethane	5.49	113	240295	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
50) Toluene-d8	8.71	98	956215	50.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.46%	
62) 4-Bromofluorobenzene	11.14	95	319080	45.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1045	0.225	ug/l #	69
6) Chloroethane	1.66	64	1902	0.470	ug/l #	80
10) Methyl Iodide	2.51	142	894	2.752	ug/l #	53
11) Tert butyl alcohol	3.02	59	4956	3.911	ug/l #	86
13) Acrolein	2.28	56	643	0.886	ug/l #	65
16) Acetone	2.43	43	27939	7.338	ug/l	95
17) Carbon Disulfide	2.56	76	809	0.808	ug/l	97
20) Methylene Chloride	2.86	84	7480	1.248	ug/l #	86
25) 2-Butanone	4.69	43	5125	1.092	ug/l	100
28) Bromochloromethane	5.03	49	303	0.533	ug/l #	11
29) Tetrahydrofuran	5.12	42	917	0.349	ug/l #	44
31) Cyclohexane	5.58	56	5029	0.574	ug/l #	86
36) 1,1-Dichloropropene	5.65	75	35230	4.773	ug/l #	52
37) Ethyl Acetate	4.84	43	2573	0.316	ug/l #	79
38) Carbon Tetrachloride	5.65	117	45745	6.804	ug/l #	16
49) 1,4-Dioxane	7.72	88	504	3.750	ug/l #	7
76) 1,2,3-Trichloropropane	11.13	75	154246	22.851	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	154246	64.499	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.00	75	563	0.335	ug/l #	26

(#) = 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

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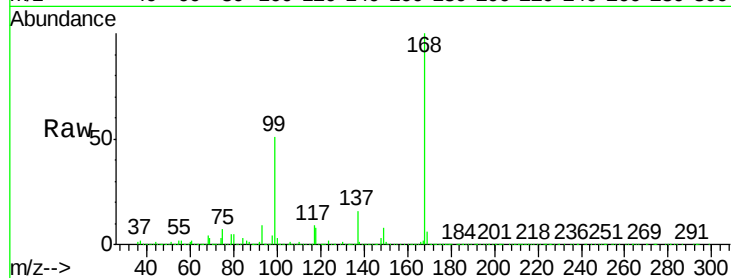
1001-FB122019

Tgt Ion: 168 Resp: 517477

Ion Ratio Lower Upper

168 100

99 50.6 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

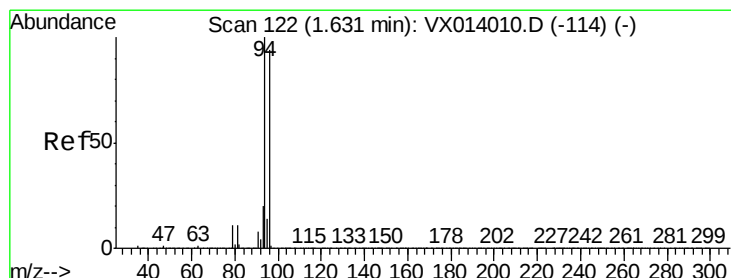
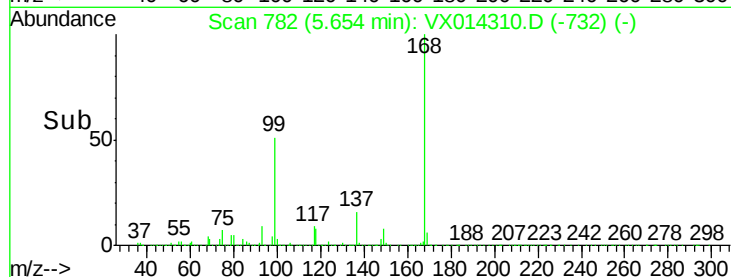
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.225 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014310.D

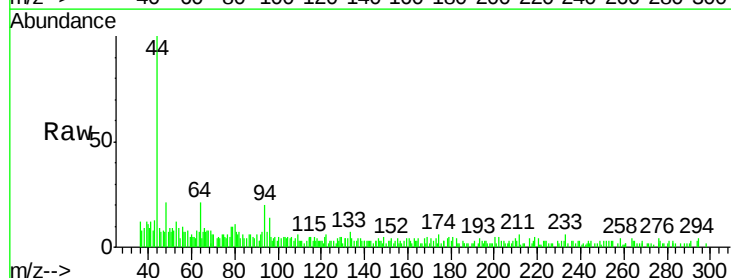
Acq: 27 Dec 2019 15:44

Tgt Ion: 94 Resp: 1045

Ion Ratio Lower Upper

94 100

96 64.5 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

800

600

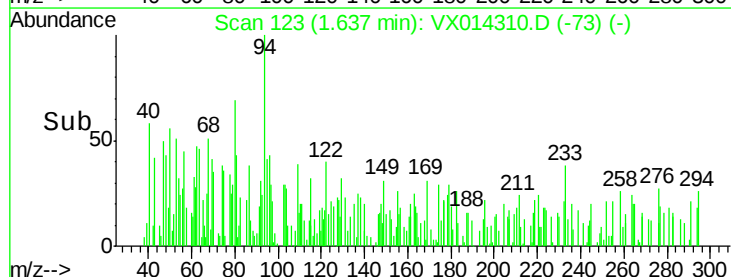
400

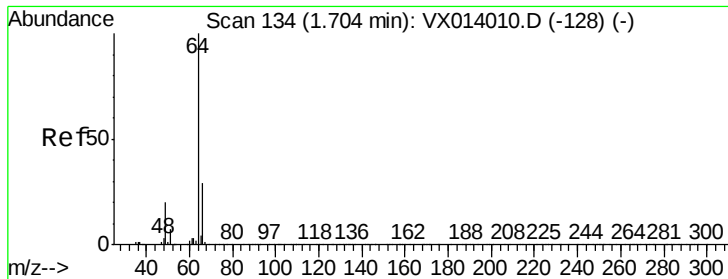
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.470 ug/l

RT: 1.66 min Scan# 127

Delta R.T. -0.04 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

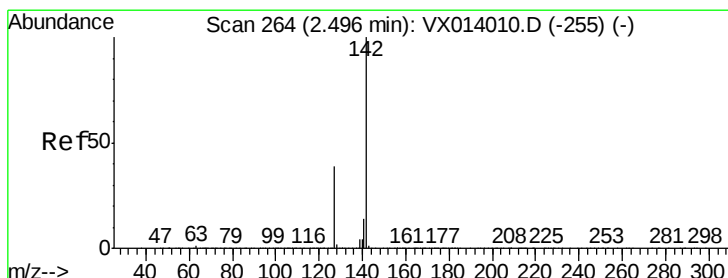
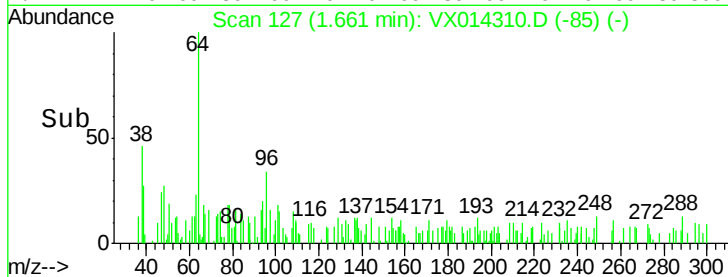
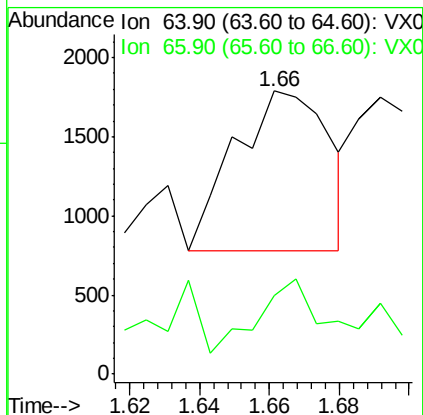
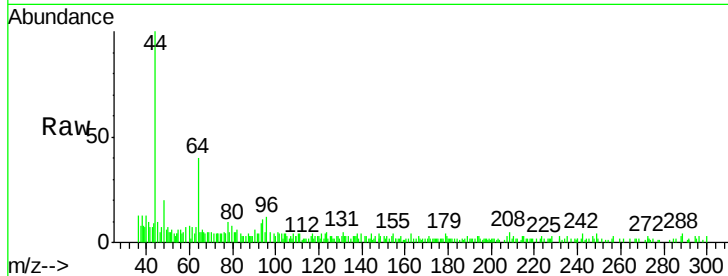
1001-FB122019

Tgt Ion: 64 Resp: 1902

Ion Ratio Lower Upper

64 100

66 18.6 23.4 35.2#



#10

Methyl Iodide

Concen: 2.752 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

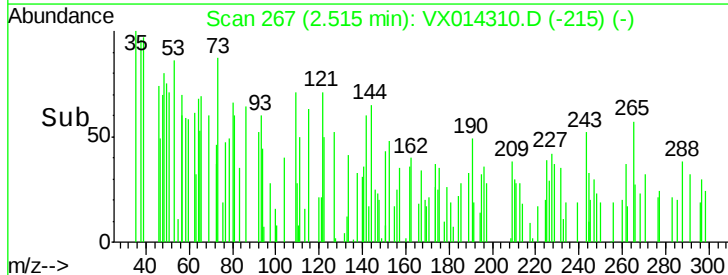
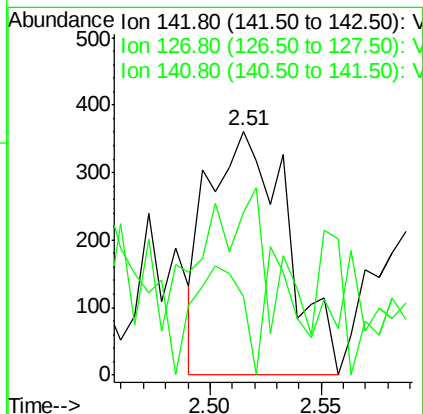
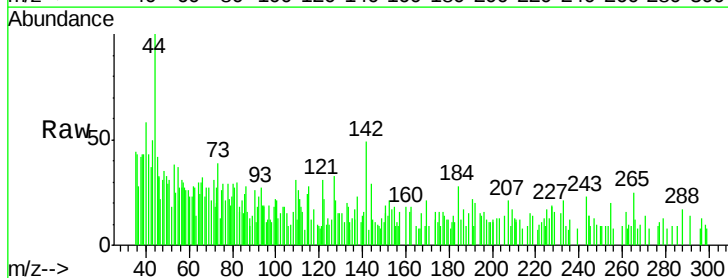
Tgt Ion: 142 Resp: 894

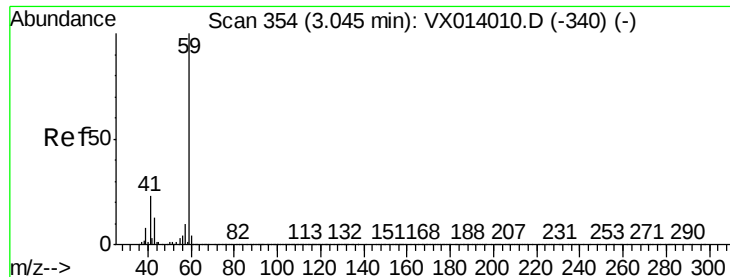
Ion Ratio Lower Upper

142 100

127 76.5 31.6 47.4#

141 19.7 11.6 17.4#



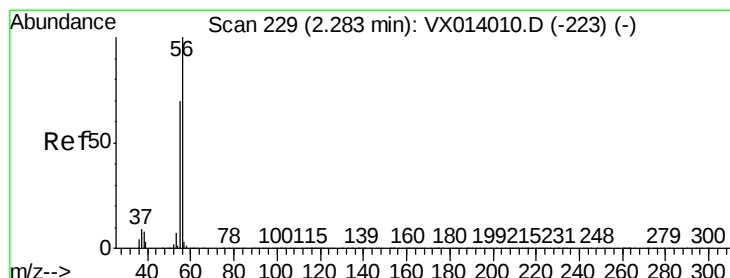
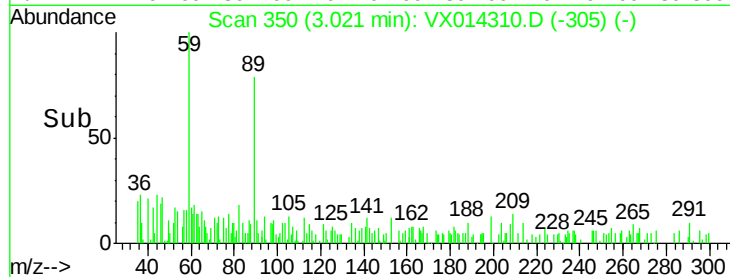
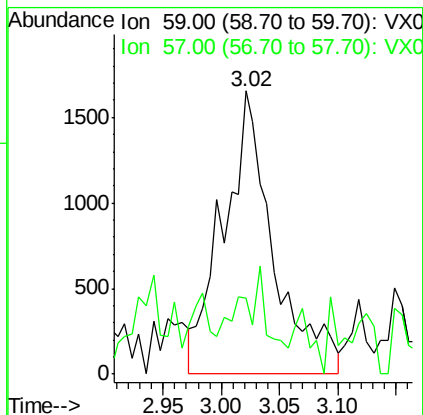
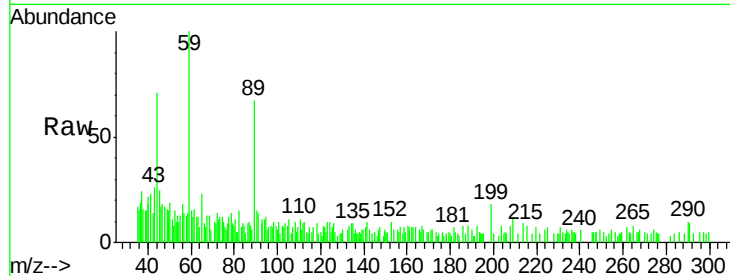


#11

Tert butyl alcohol
Concen: 3.911 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

Instrument :
MSVOA_X
ClientSampleId :
1001-FB122019

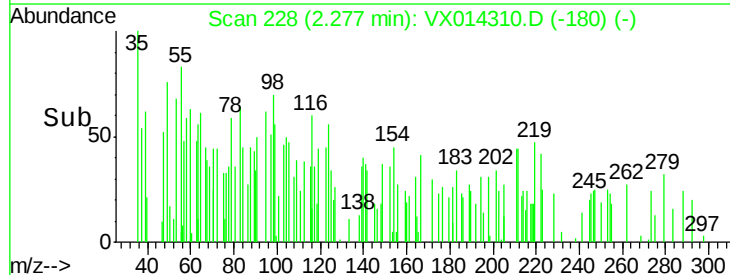
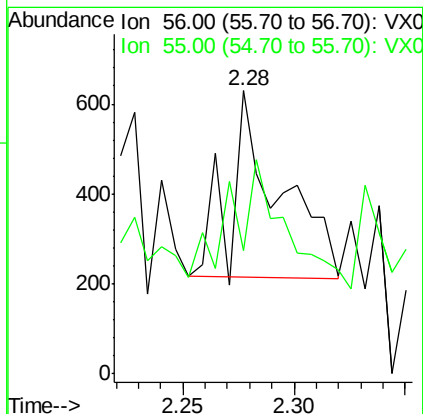
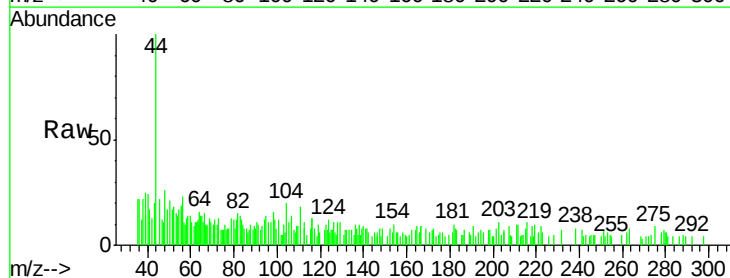
Tgt Ion: 59 Resp: 4956
Ion Ratio Lower Upper
59 100
57 5.3 8.4 12.6#

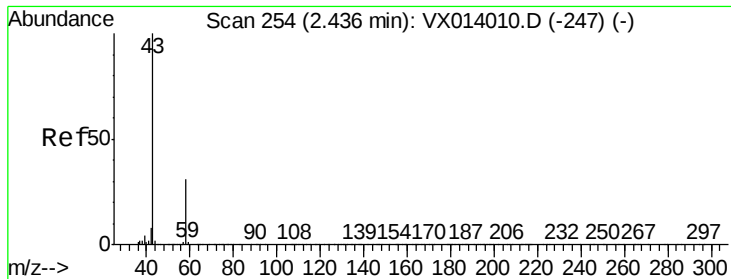


#13

Acrolein
Concen: 0.886 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

Tgt Ion: 56 Resp: 643
Ion Ratio Lower Upper
56 100
55 100.5 56.9 85.3#

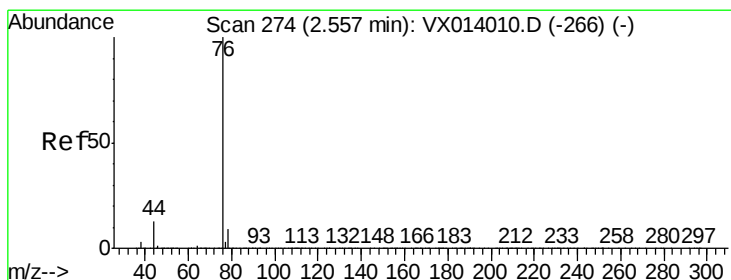
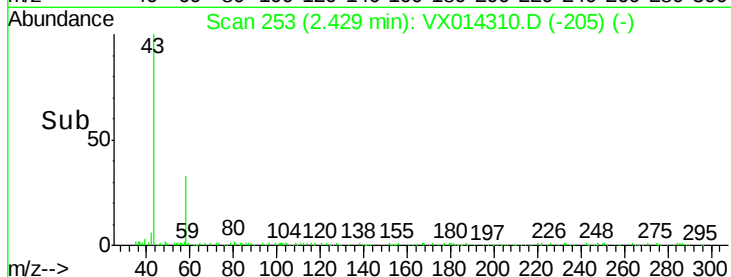
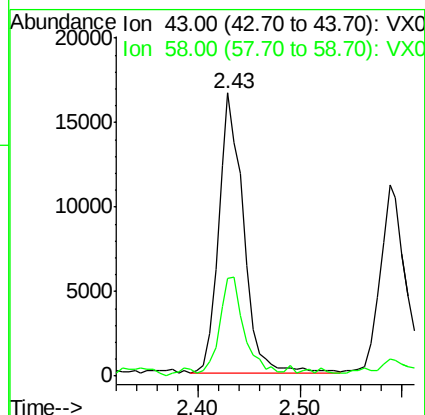
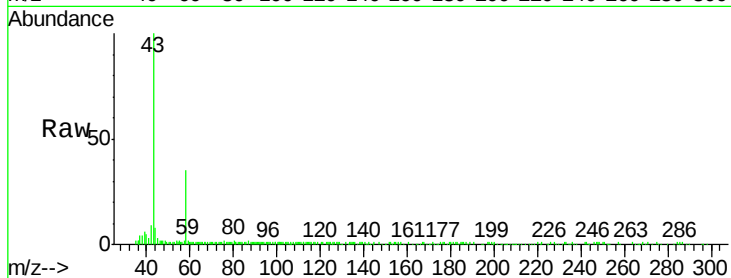




#16
Acetone
Concen: 7.338 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

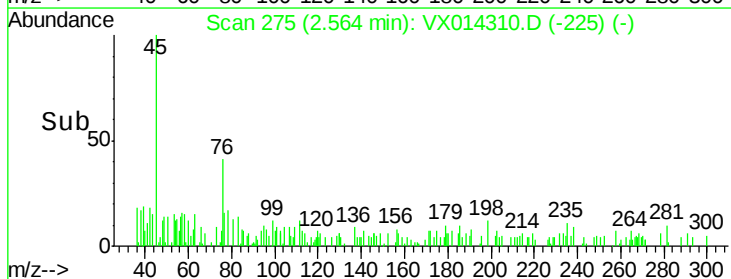
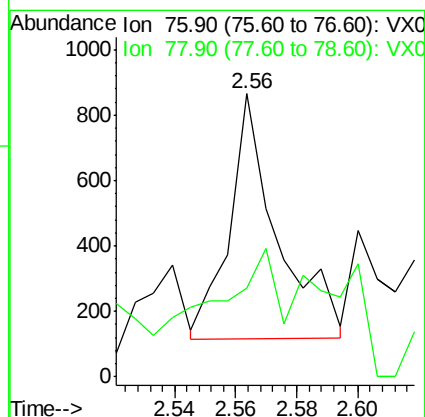
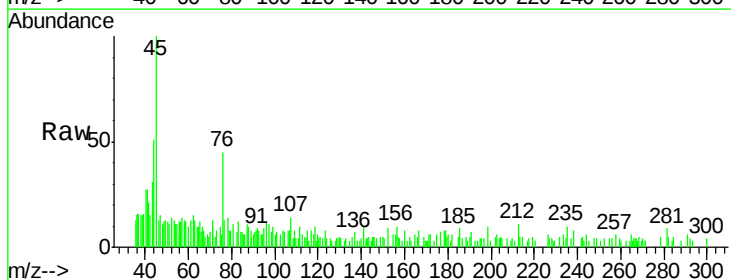
Instrument :
MSVOA_X
ClientSampleId :
1001-FB122019

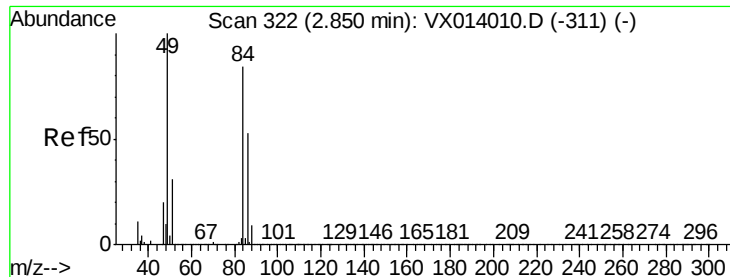
Tgt Ion: 43 Resp: 27939
Ion Ratio Lower Upper
43 100
58 33.8 24.9 37.3



#17
Carbon Disulfide
Concen: 0.808 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

Tgt Ion: 76 Resp: 809
Ion Ratio Lower Upper
76 100
78 8.0 7.2 10.8





#20

Methylene Chloride

Concen: 1.248 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

1001-FB122019

Tgt Ion: 84 Resp: 7480

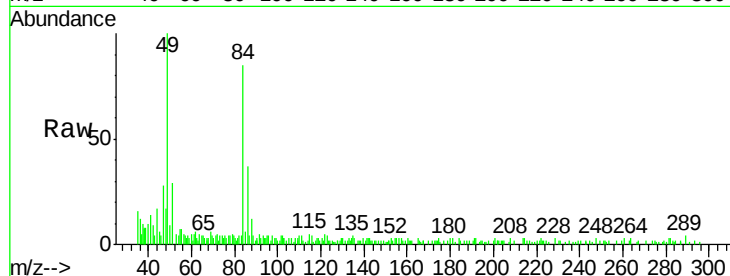
Ion Ratio Lower Upper

84 100

49 113.8 95.8 143.6

51 28.9 29.8 44.8#

86 40.1 50.8 76.2#

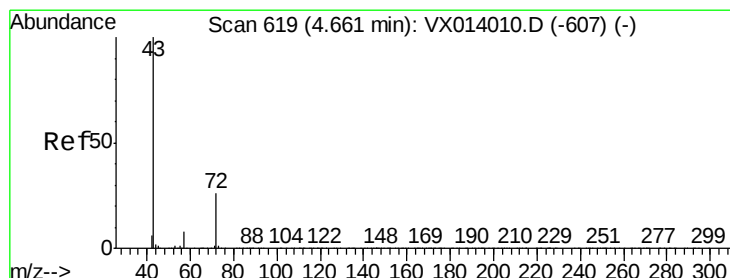
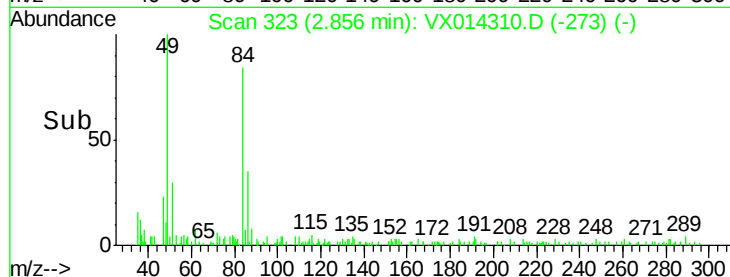
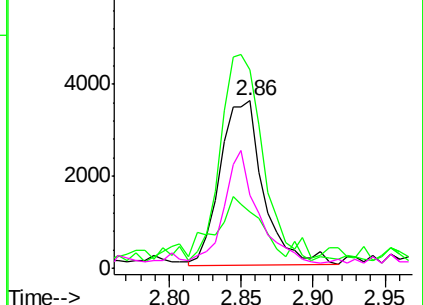


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.092 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX014310.D

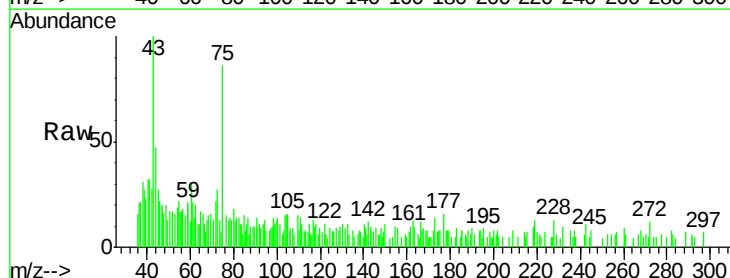
Acq: 27 Dec 2019 15:44

Tgt Ion: 43 Resp: 5125

Ion Ratio Lower Upper

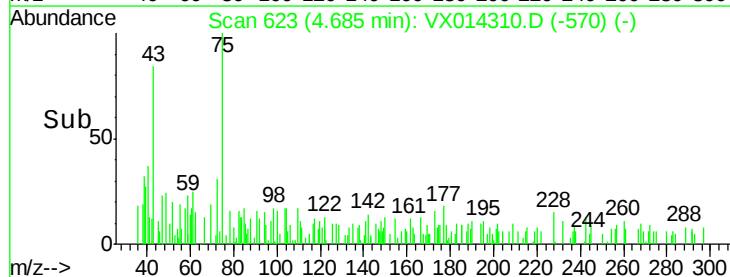
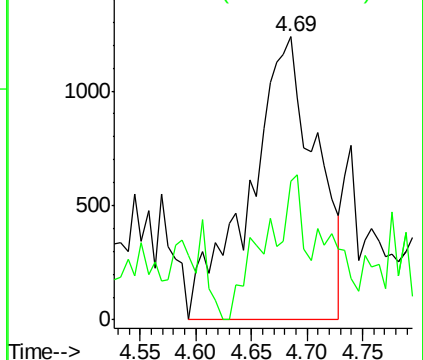
43 100

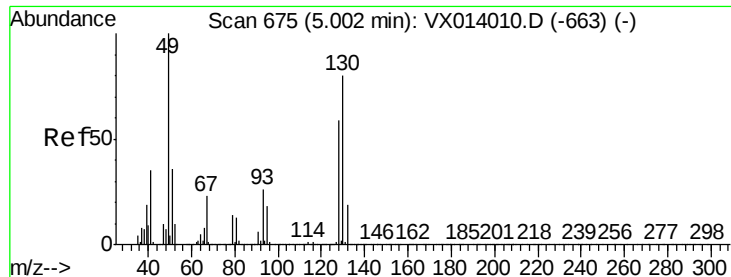
72 25.9 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

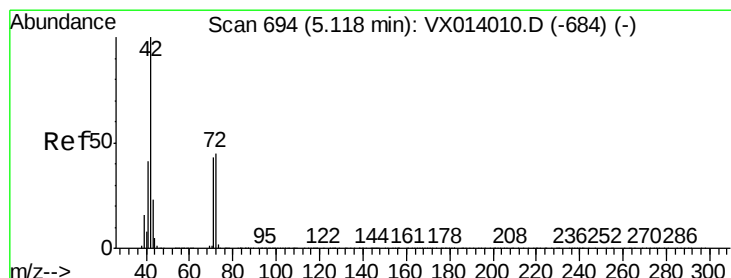
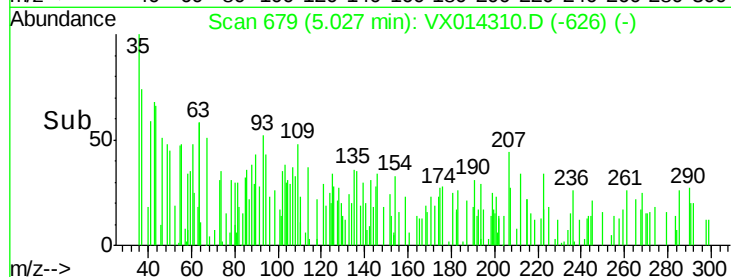
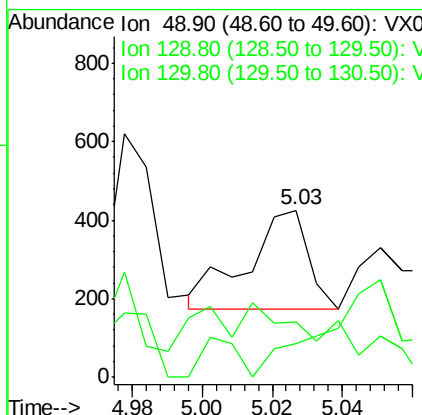
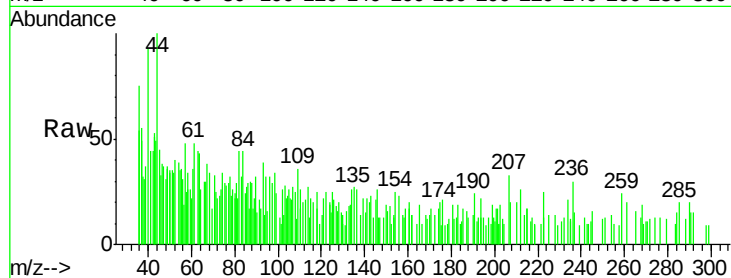




#28
Bromochloromethane
Concen: 0.533 ug/l
RT: 5.03 min Scan# 679
Delta R.T. 0.02 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

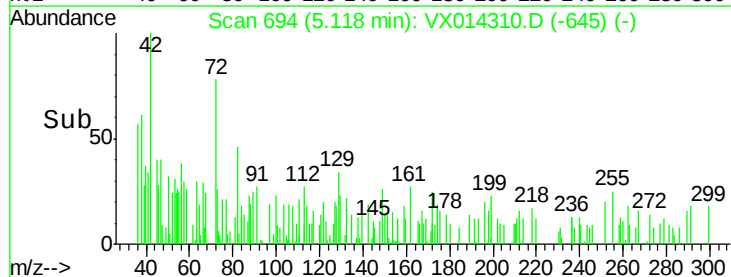
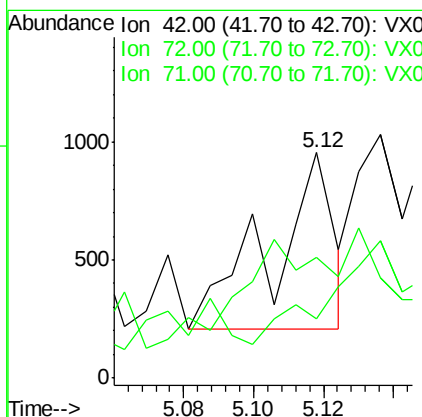
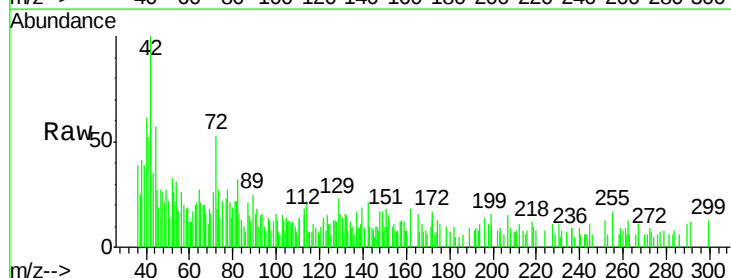
Instrument :
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ClientSampleId :
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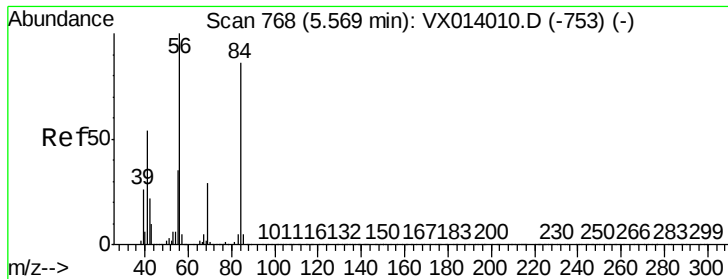
Tgt Ion: 49 Resp: 303
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.0
130 0.0 64.6 97.0#



#29
Tetrahydrofuran
Concen: 0.349 ug/l
RT: 5.12 min Scan# 694
Delta R.T. 0.00 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

Tgt Ion: 42 Resp: 917
Ion Ratio Lower Upper
42 100
72 75.1 35.8 53.8#
71 0.0 33.6 50.4#

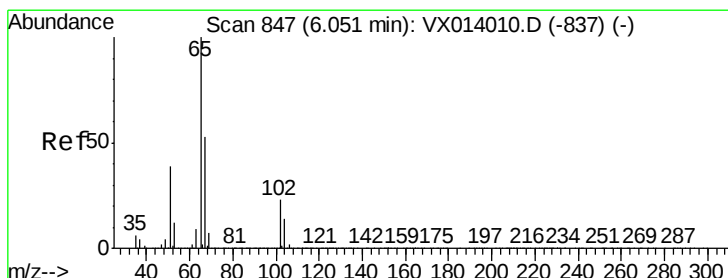
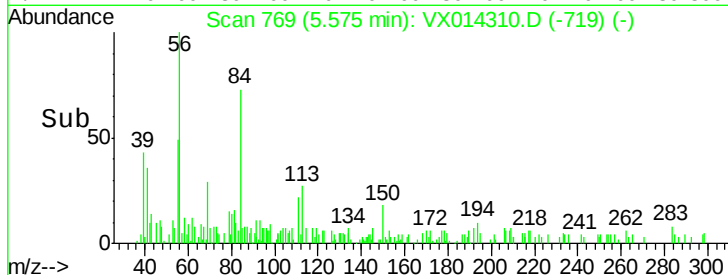
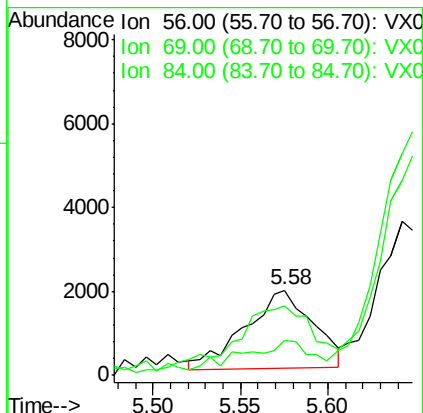
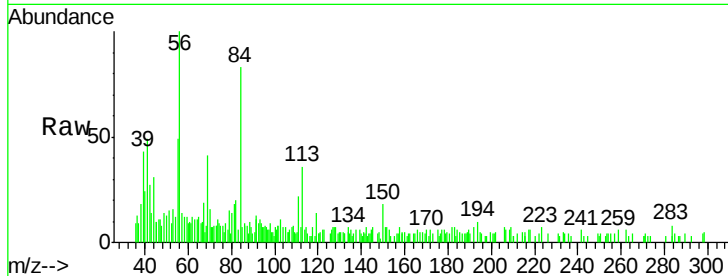




#31
Cyclohexane
Concen: 0.574 ug/l
RT: 5.58 min Scan# 769
Delta R.T. 0.01 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

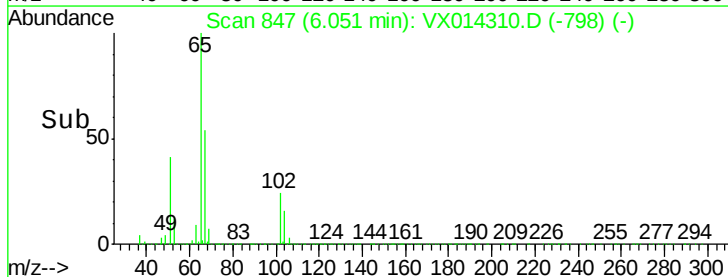
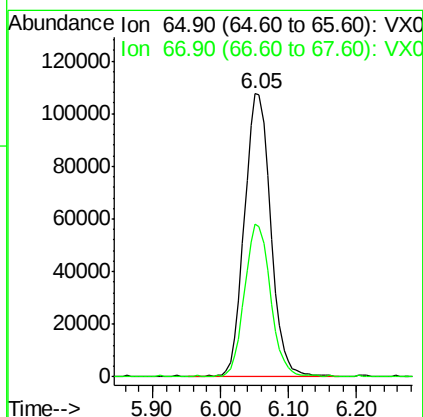
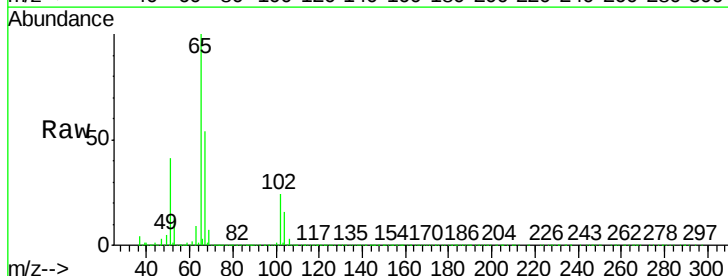
Instrument :
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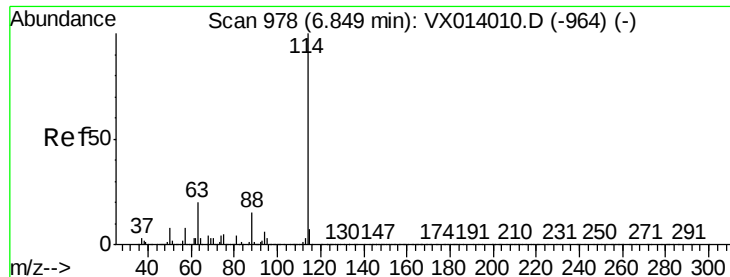
Tgt Ion: 56 Resp: 5029
Ion Ratio Lower Upper
56 100
69 42.1 23.2 34.8#
84 77.0 69.2 103.8



#33
1,2-Dichloroethane-d4
Concen: 49.275 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

Tgt Ion: 65 Resp: 288992
Ion Ratio Lower Upper
65 100
67 52.8 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: VX014310.D

Acq: 27 Dec 2019 15:44

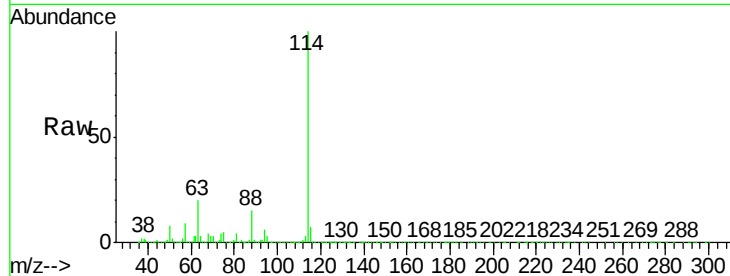
Instrument :

MSVOA_X

ClientSampleId :

1001-FB122019

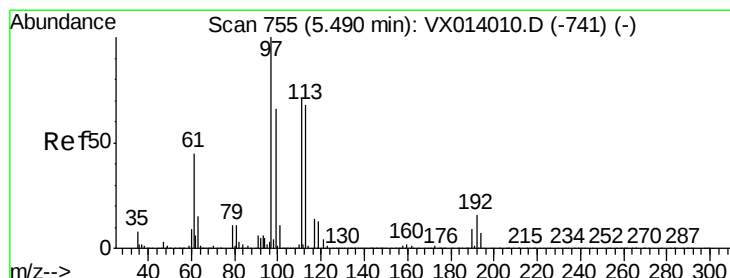
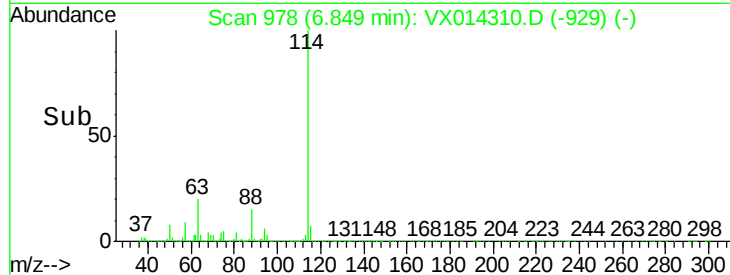
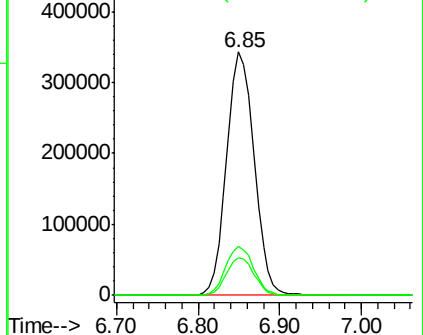
Tgt Ion:	114	Resp:	804362
Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	40.8
88	15.2	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.144 ug/l

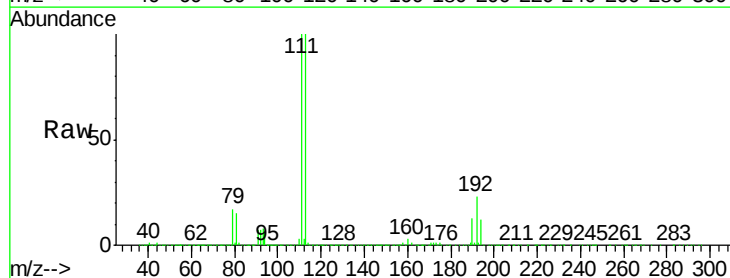
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

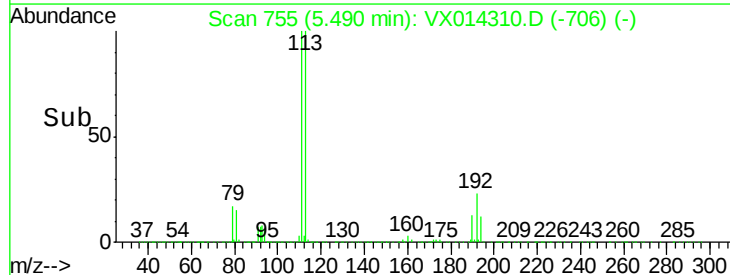
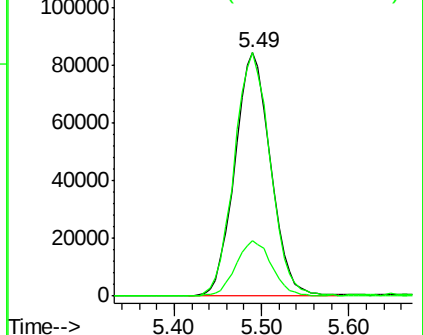
Tgt Ion:	113	Resp:	240295
Ion	Ratio	Lower	Upper
113	100		
111	100.4	82.0	123.0
192	23.2	19.3	28.9

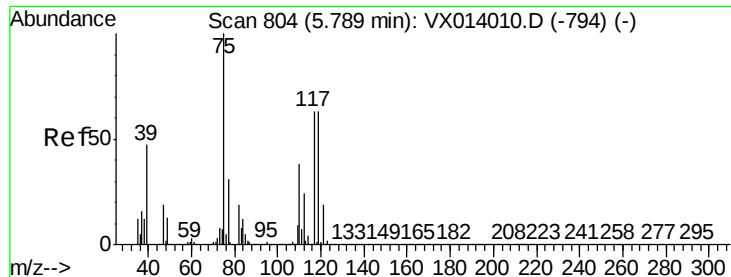


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.773 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

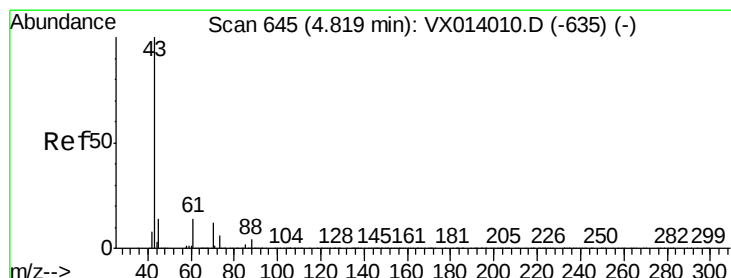
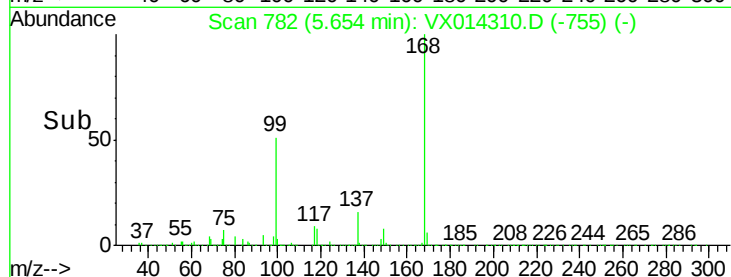
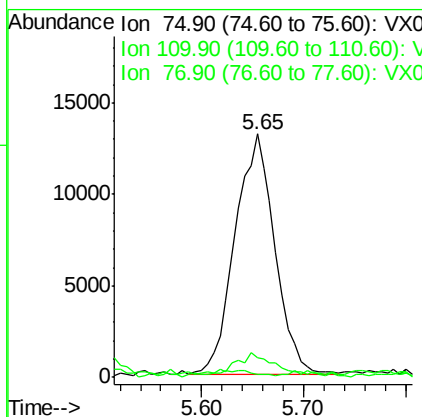
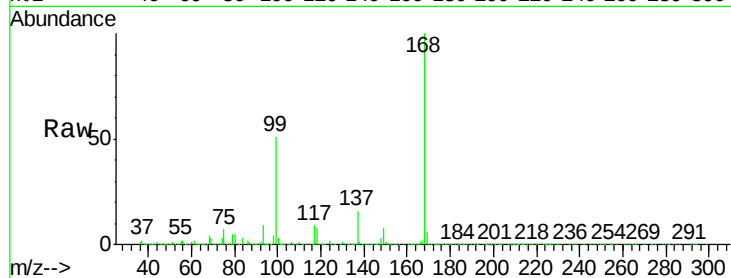
Instrument :

MSVOA_X

ClientSampleId :

1001-FB122019

Tgt Ion:	75	Resp:	35230
Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.3	54.9#
77	1.5	24.8	37.2#



#37

Ethyl Acetate

Concen: 0.316 ug/l

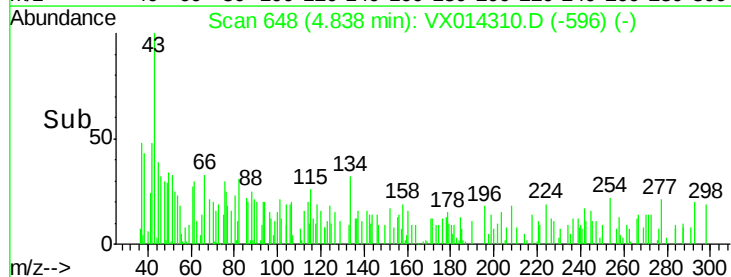
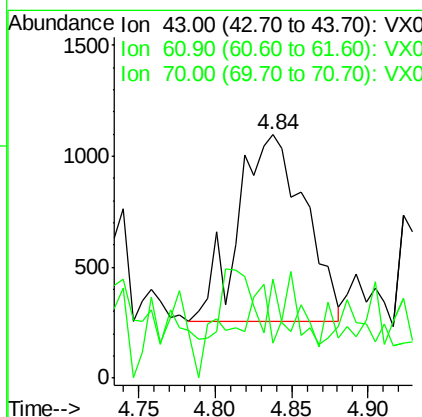
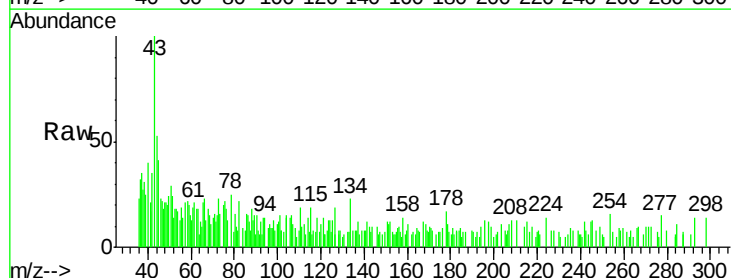
RT: 4.84 min Scan# 648

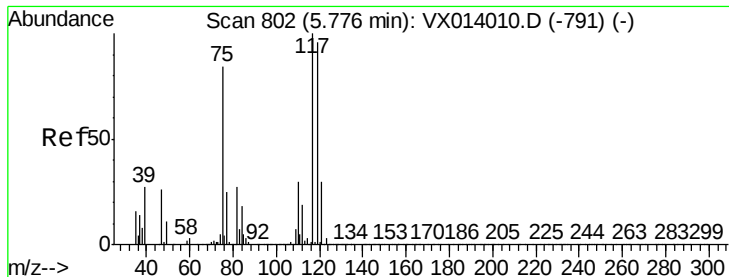
Delta R.T. 0.02 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

Tgt Ion:	43	Resp:	2573
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.8	16.2#
70	8.5	8.6	12.8#





#38

Carbon Tetrachloride

Concen: 6.804 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

1001-FB122019

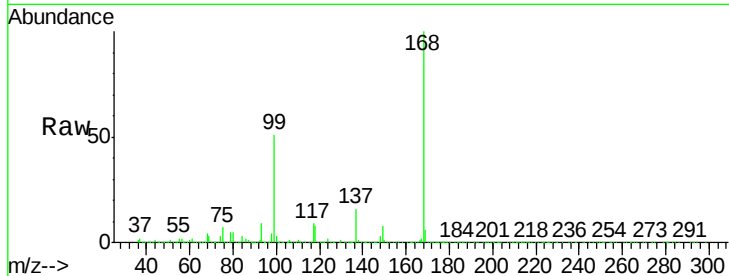
Tgt Ion: 117 Resp: 45745

Ion Ratio Lower Upper

117 100

119 4.0 76.2 114.4#

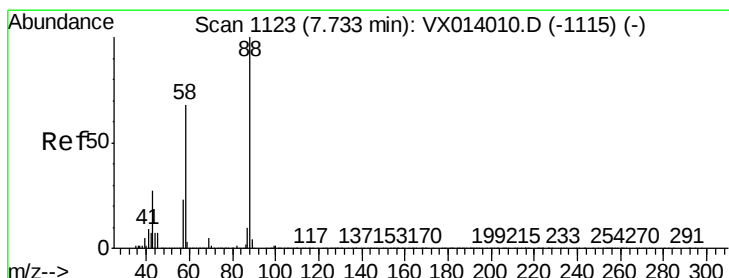
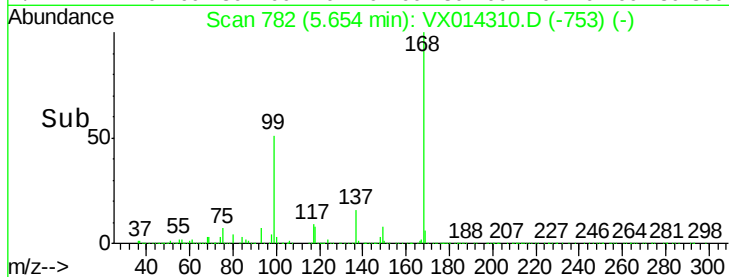
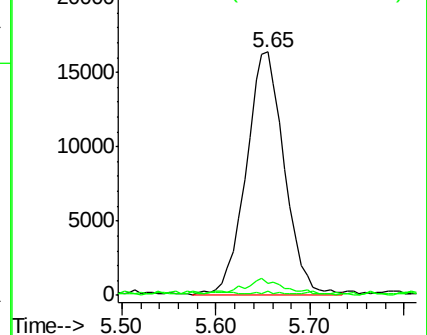
121 1.1 23.6 35.4#



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



#49

1,4-Dioxane

Concen: 3.750 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

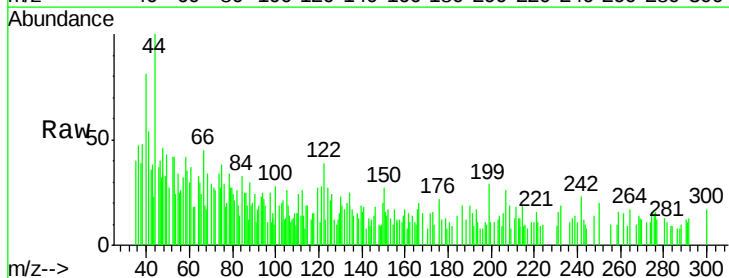
Tgt Ion: 88 Resp: 504

Ion Ratio Lower Upper

88 100

43 93.7 26.5 39.7#

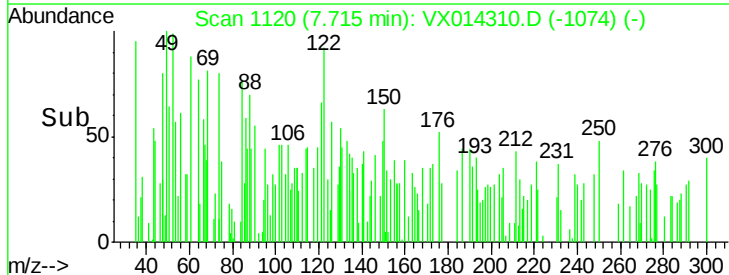
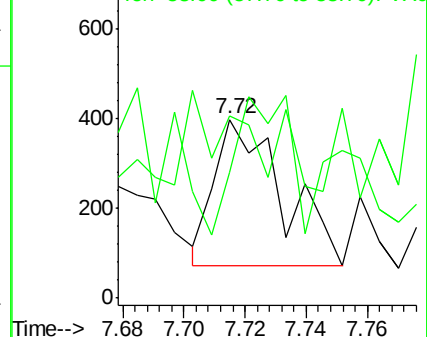
58 0.0 56.8 85.2#

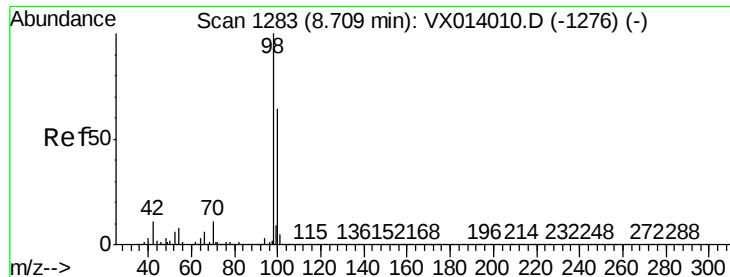


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.231 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

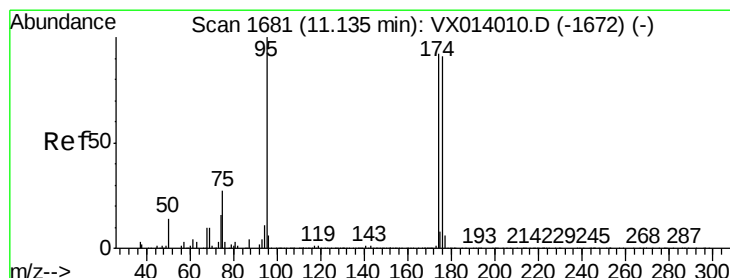
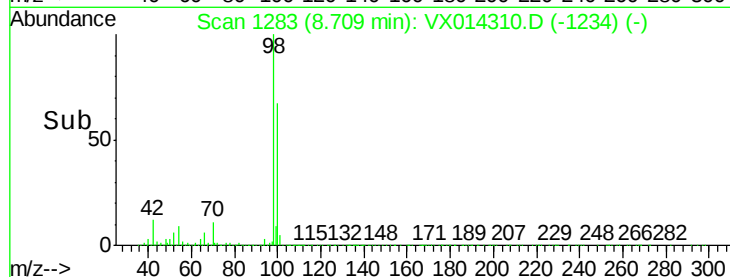
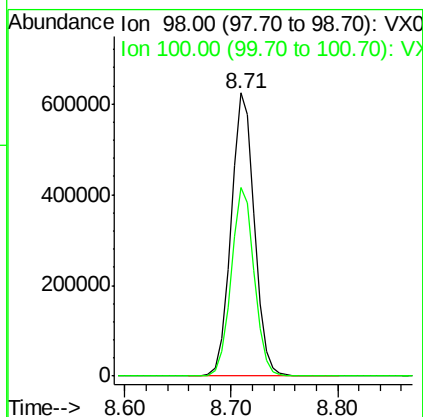
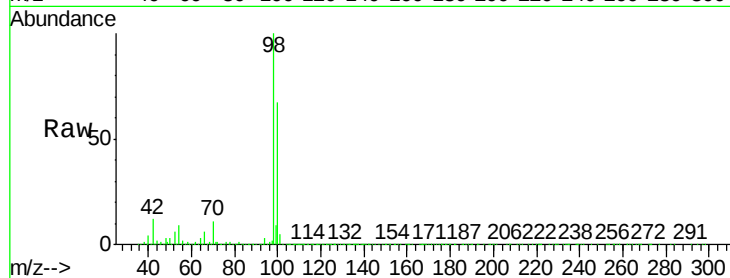
1001-FB122019

Tgt Ion: 98 Resp: 956215

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.853 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

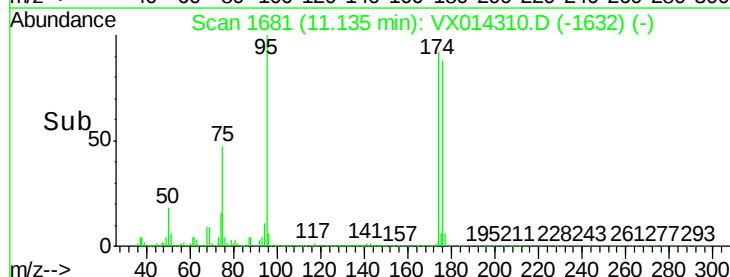
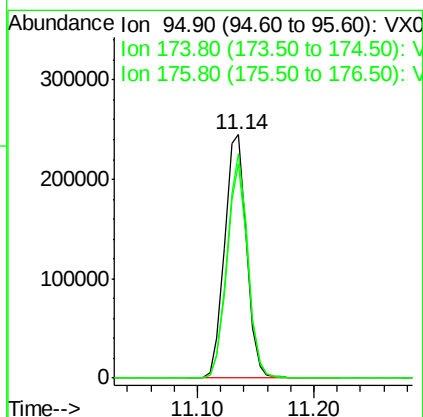
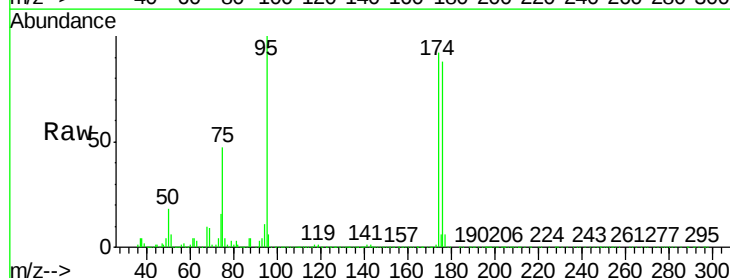
Tgt Ion: 95 Resp: 319080

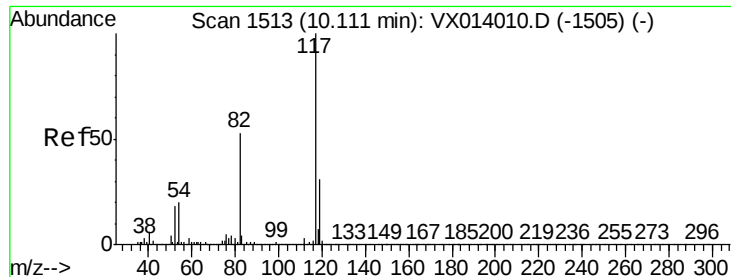
Ion Ratio Lower Upper

95 100

174 87.4 0.0 175.8

176 83.5 0.0 173.0

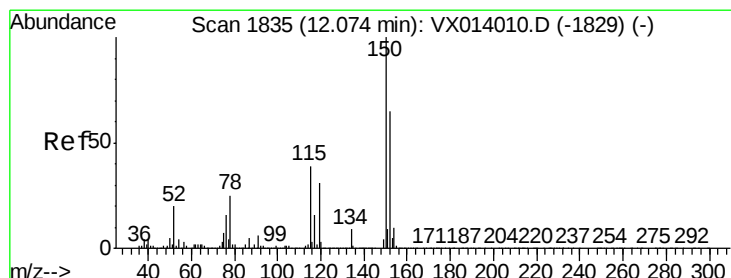
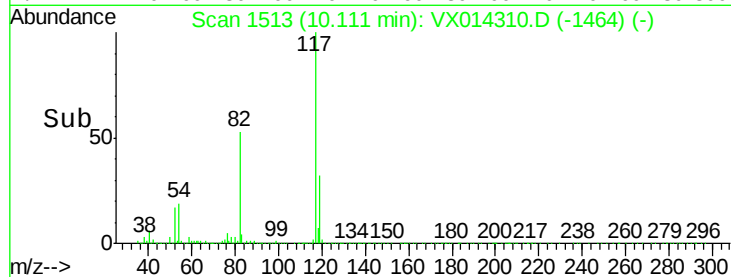
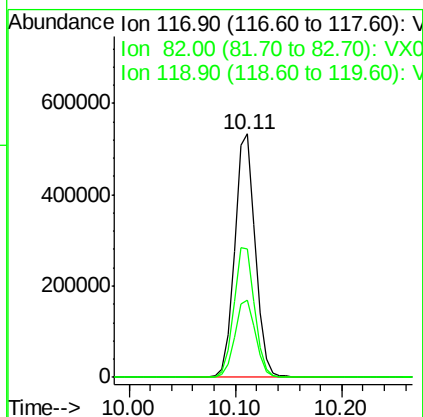
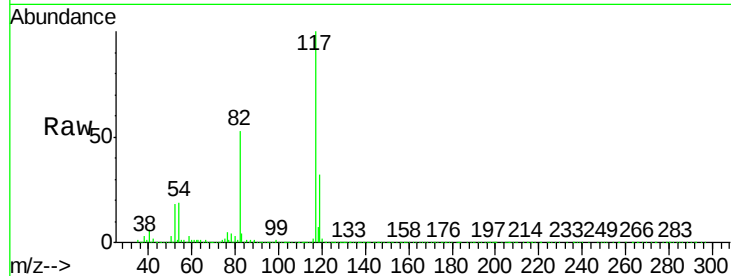




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

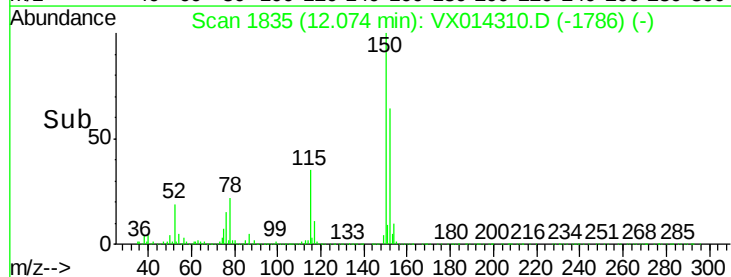
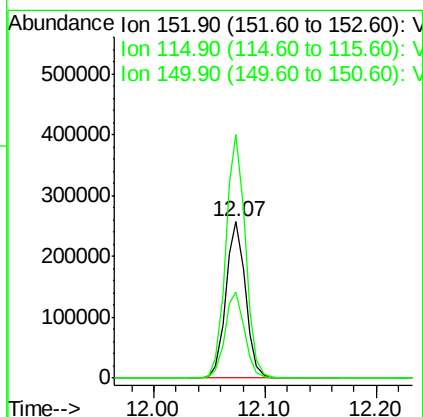
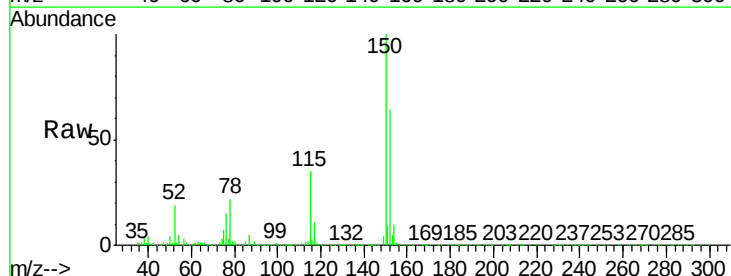
Instrument :
MSVOA_X
ClientSampleId :
1001-FB122019

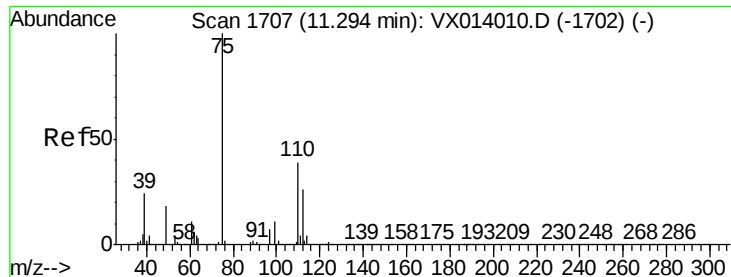
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.2	63.4
119	31.8	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014310.D
Acq: 27 Dec 2019 15:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.3	114.9
150	155.8	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 22.851 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

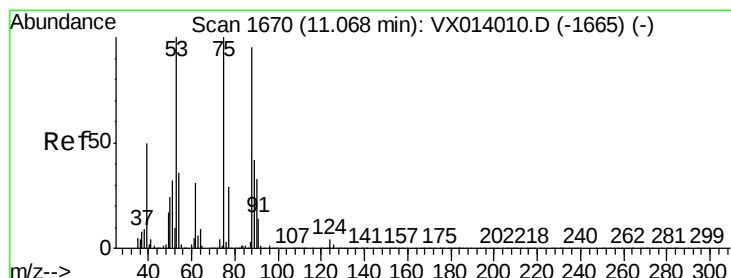
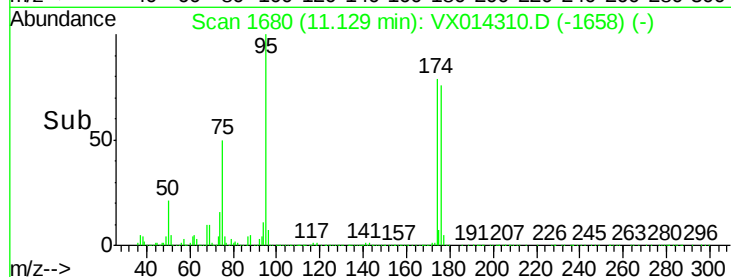
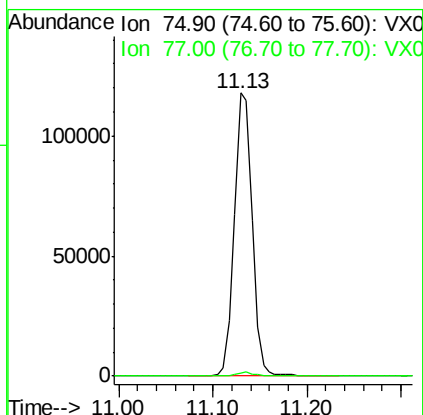
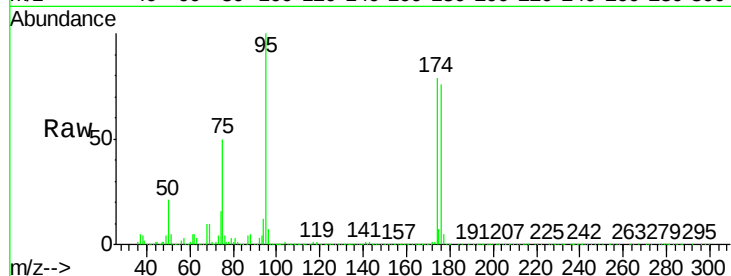
1001-FB122019

Tgt Ion: 75 Resp: 154246

Ion Ratio Lower Upper

75 100

77 1.4 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.499 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

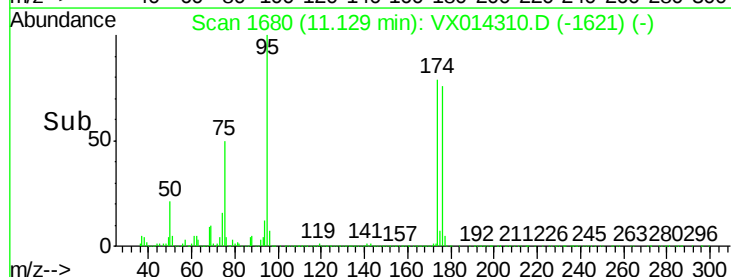
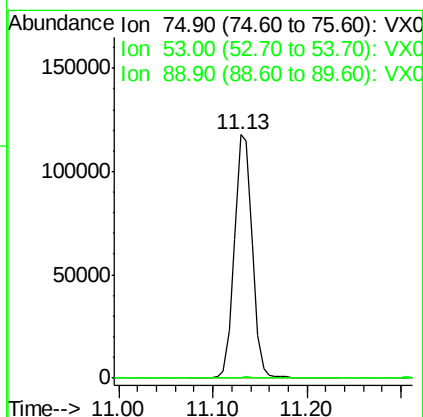
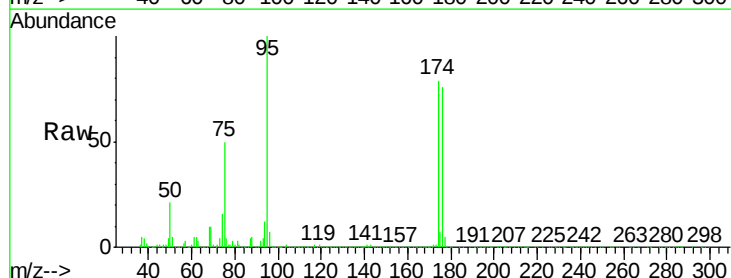
Tgt Ion: 75 Resp: 154246

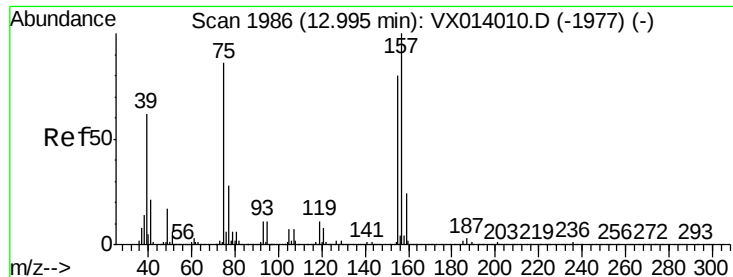
Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.1 34.6 51.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.335 ug/l

RT: 13.00 min Scan# 1987

Delta R.T. 0.01 min

Lab File: VX014310.D

Acq: 27 Dec 2019 15:44

Instrument :

MSVOA_X

ClientSampleId :

1001-FB122019

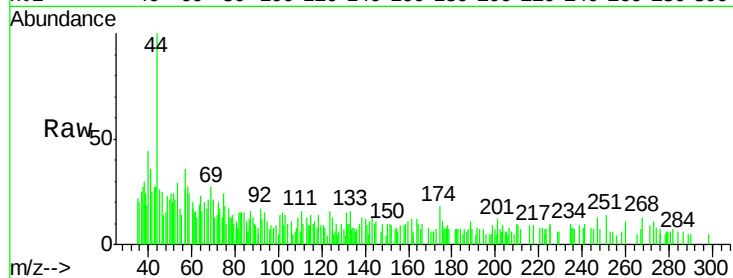
Tgt Ion: 75 Resp: 563

Ion Ratio Lower Upper

75 100

155 33.6 46.9 140.6#

157 28.4 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

