

Data File : VX013953.D
Acq On : 11 Dec 2019 19:05
Operator : JC/SP
Sample : K6249-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ188I-20191208

Quant Time: Dec 12 04:04:15 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	555783	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	861963	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	768061	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	340804	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	318843	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
35) Dibromofluoromethane	5.49	113	257273	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
50) Toluene-d8	8.71	98	1014092	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.13	95	337552	45.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.18%	

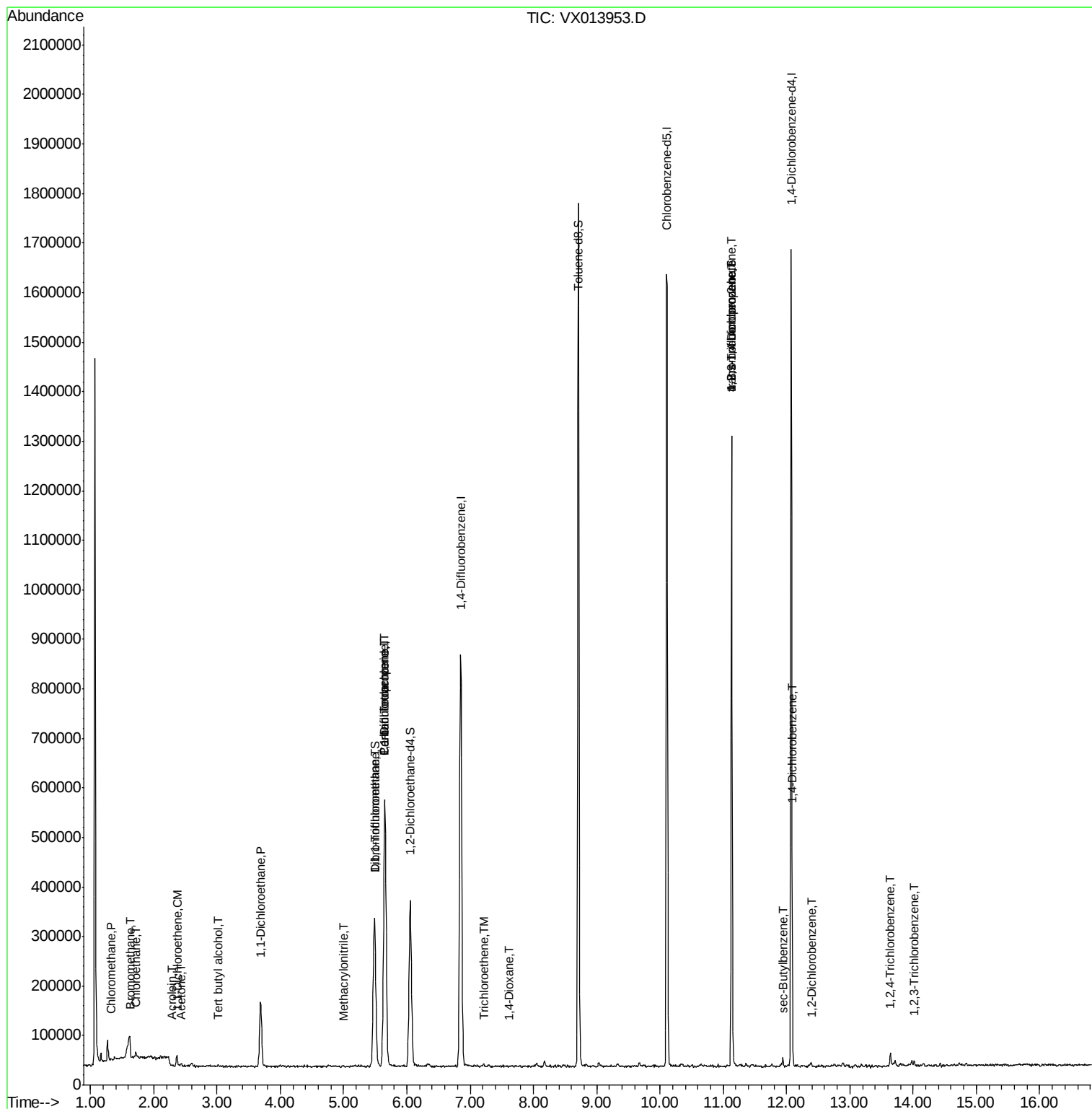
Target Compounds						Qvalue
3) Chloromethane	1.32	50	2455	0.354	ug/l #	87
5) Bromomethane	1.64	94	2208	0.421	ug/l #	42
6) Chloroethane	1.72	64	10182	2.290	ug/l	94
11) Tert butyl alcohol	3.03	59	1205	0.757	ug/l #	63
12) 1,1-Dichloroethene	2.36	96	8182	1.547	ug/l	96
13) Acrolein	2.29	56	211	6.197	ug/l	85
16) Acetone	2.44	43	6704	2.105	ug/l	96
24) 1,1-Dichloroethane	3.69	63	153314	15.174	ug/l	98
32) 1,1,1-Trichloroethane	5.48	97	6076	0.710	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	38271	4.891	ug/l #	48
38) Carbon Tetrachloride	5.65	117	49099	6.805	ug/l #	15
41) Methacrylonitrile	5.01	41	1070	0.222	ug/l #	47
44) Trichloroethene	7.21	130	1726	0.264	ug/l	94
49) 1,4-Dioxane	7.62	88	356	2.265	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	165077	21.536	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	165077	58.918	ug/l #	11
85) sec-Butylbenzene	11.94	105	10269	0.451	ug/l	95
88) 1,4-Dichlorobenzene	12.09	146	4214	0.367	ug/l #	7
91) 1,2-Dichlorobenzene	12.39	146	3218	0.289	ug/l	92
93) 1,2,4-Trichlorobenzene	13.64	180	7036	0.908	ug/l	96
96) 1,2,3-Trichlorobenzene	14.01	180	2909	0.379	ug/l #	78

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

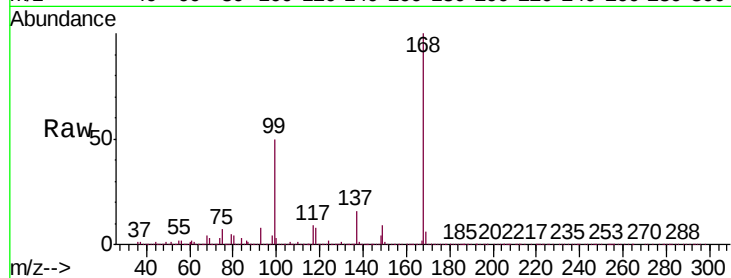
SA-PZ188I-20191208

Tgt Ion:168 Resp: 555783

Ion Ratio Lower Upper

168 100

99 49.8 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

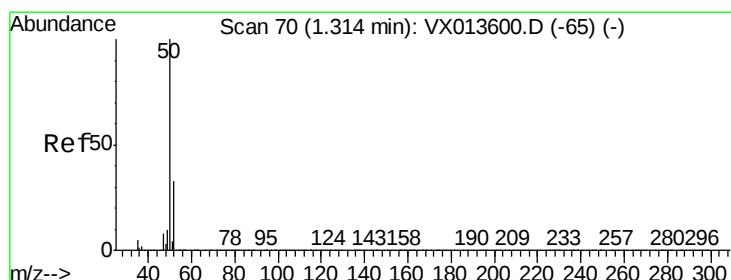
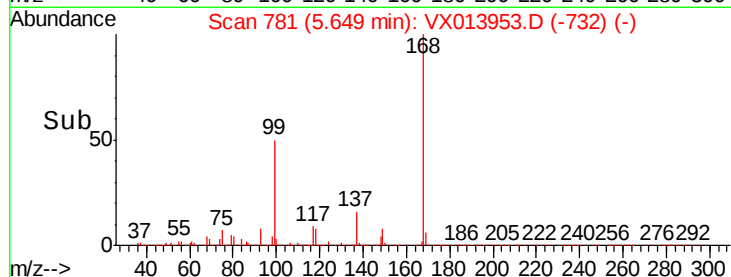
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.354 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013953.D

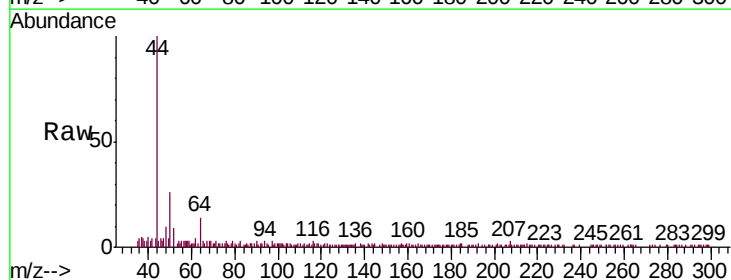
Acq: 11 Dec 2019 19:05

Tgt Ion: 50 Resp: 2455

Ion Ratio Lower Upper

50 100

52 25.0 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

3000

2500

2000

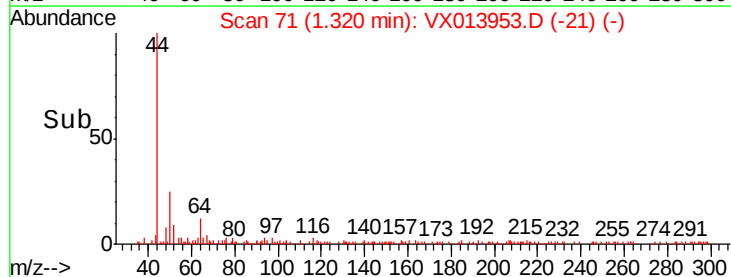
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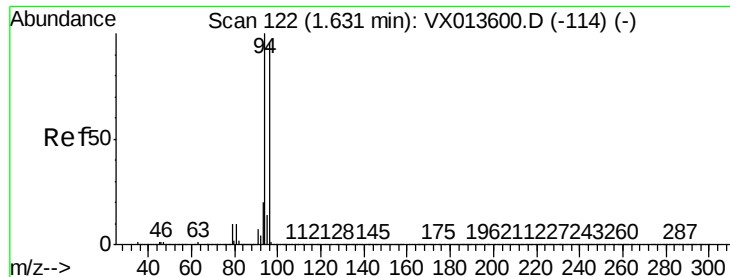
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.421 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

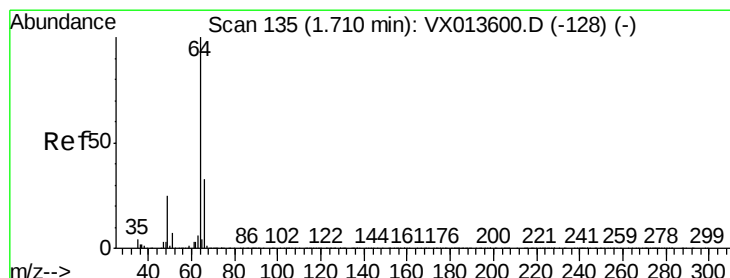
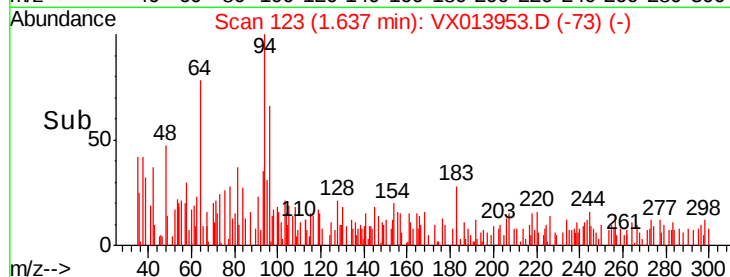
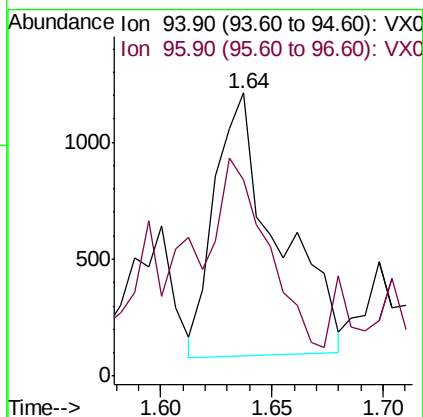
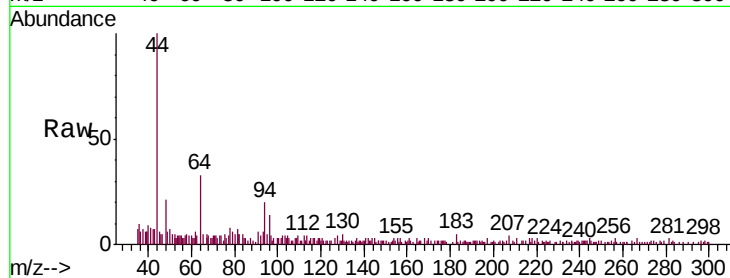
SA-PZ188I-20191208

Tgt Ion: 94 Resp: 2208

Ion Ratio Lower Upper

94 100

96 39.7 77.0 115.4#



#6

Chloroethane

Concen: 2.290 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013953.D

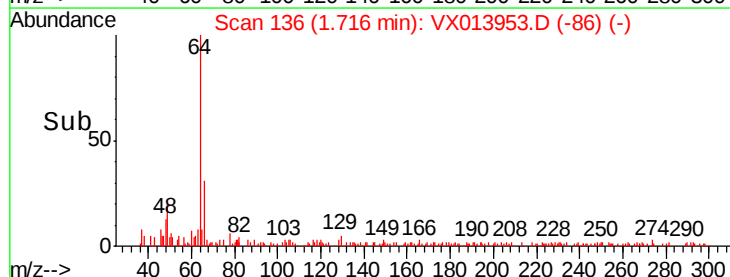
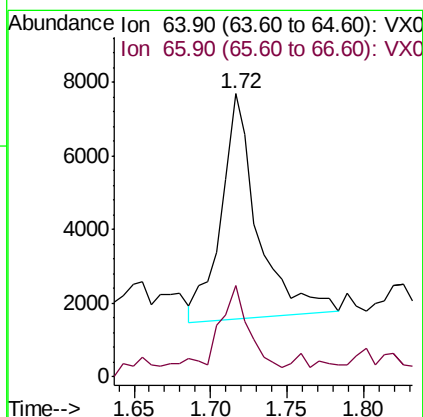
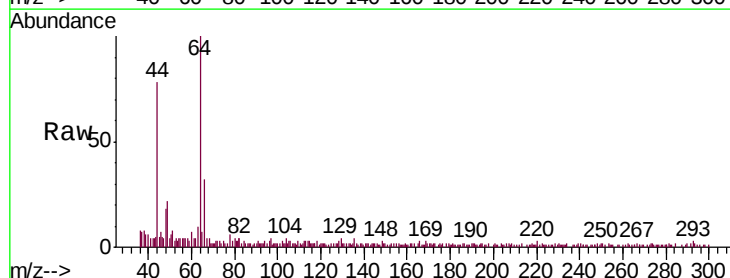
Acq: 11 Dec 2019 19:05

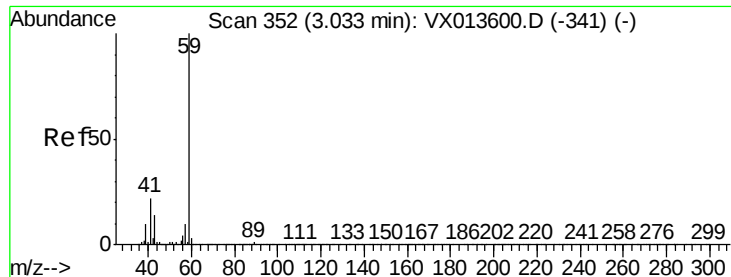
Tgt Ion: 64 Resp: 10182

Ion Ratio Lower Upper

64 100

66 36.8 26.7 40.1



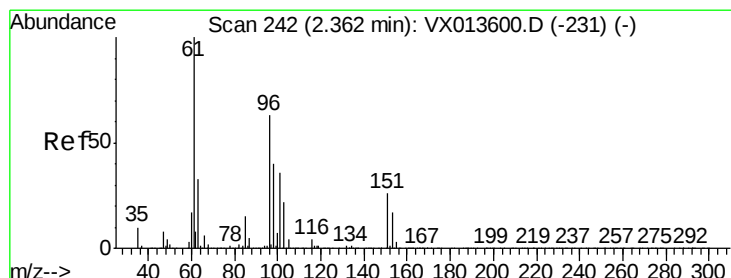
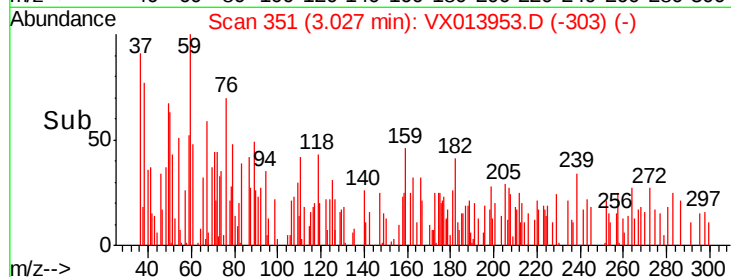
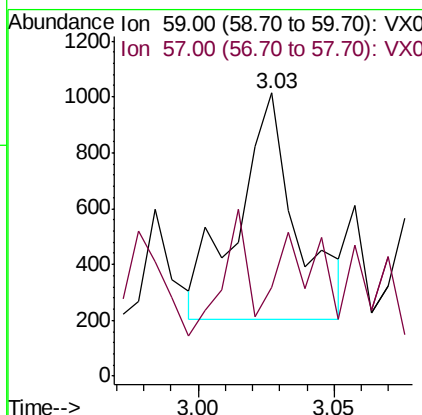
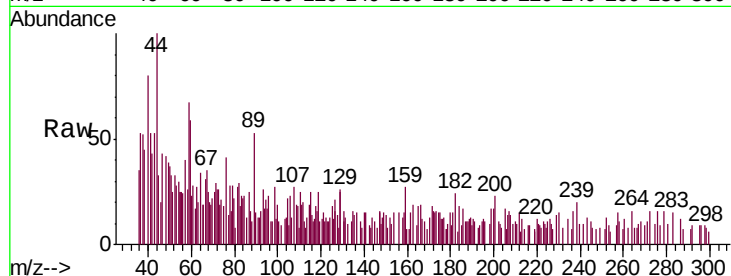


#11

Tert butyl alcohol
Concen: 0.757 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ188I-20191208

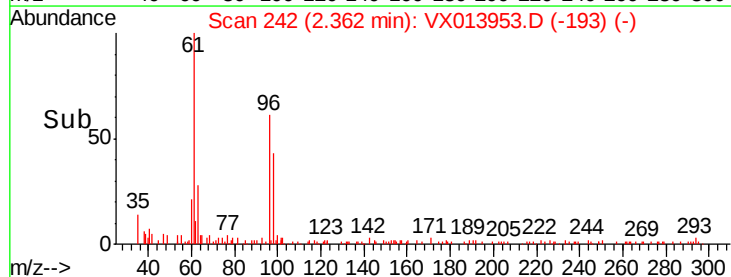
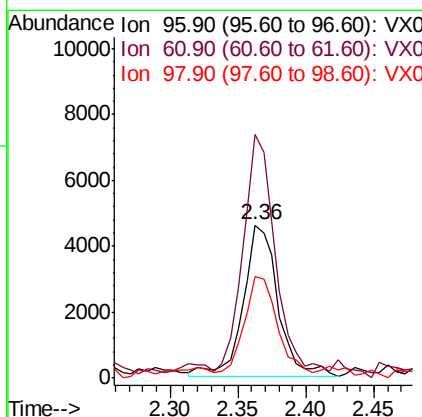
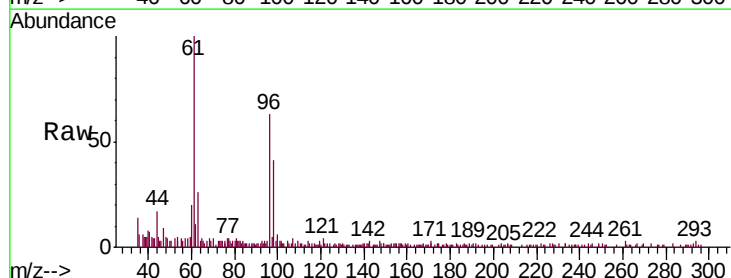
Tgt Ion: 59 Resp: 1205
Ion Ratio Lower Upper
59 100
57 23.3 7.8 11.6#

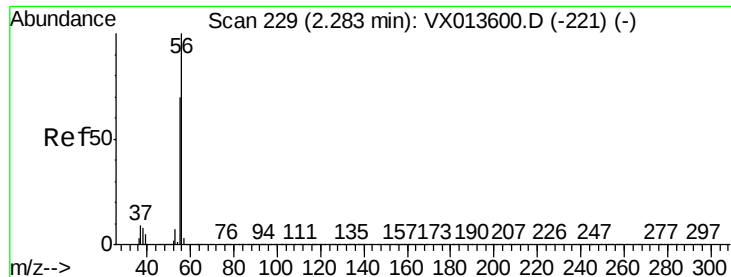


#12

1,1-Dichloroethene
Concen: 1.547 ug/l
RT: 2.36 min Scan# 242
Delta R.T. 0.00 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

Tgt Ion: 96 Resp: 8182
Ion Ratio Lower Upper
96 100
61 151.8 126.6 190.0
98 61.3 50.6 76.0





#13

Acrolein

Concen: 6.197 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

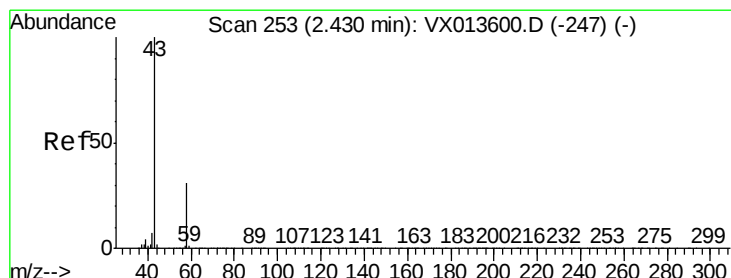
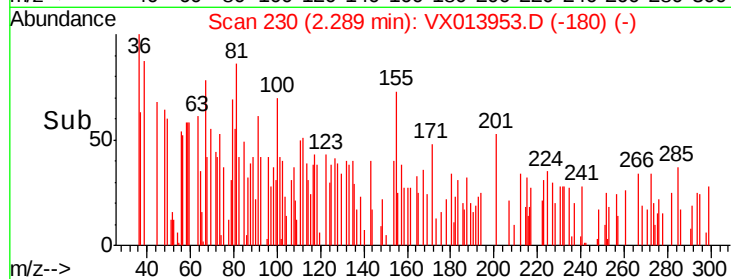
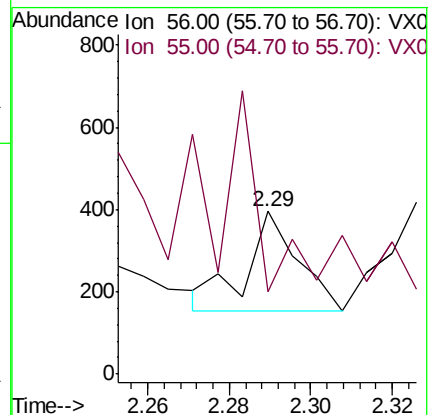
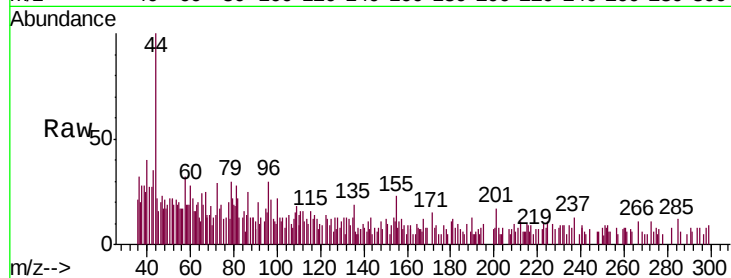
SA-PZ188I-20191208

Tgt Ion: 56 Resp: 211

Ion Ratio Lower Upper

56 100

55 58.3 56.2 84.4



#16

Acetone

Concen: 2.105 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013953.D

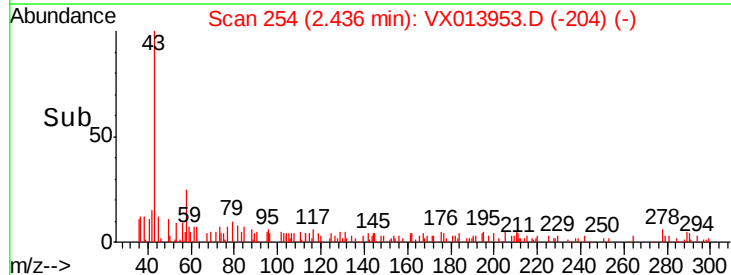
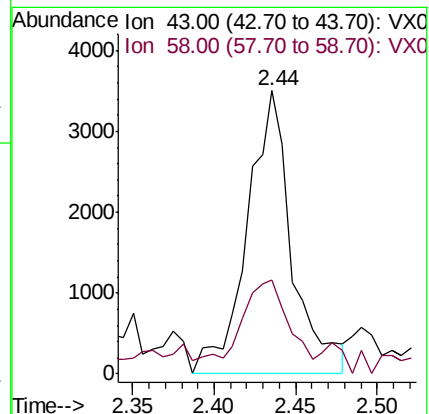
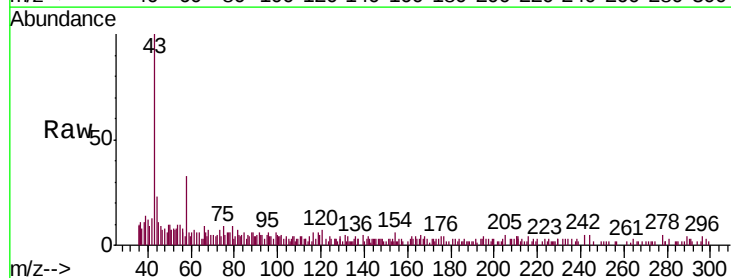
Acq: 11 Dec 2019 19:05

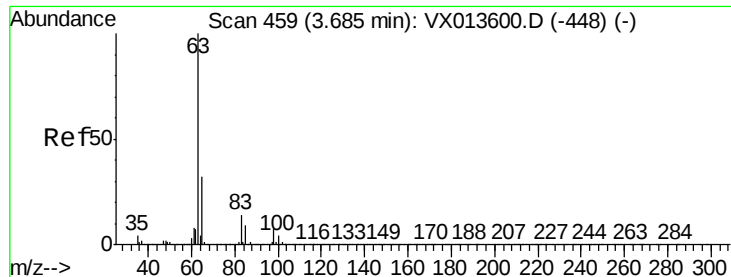
Tgt Ion: 43 Resp: 6704

Ion Ratio Lower Upper

43 100

58 28.4 24.6 36.8





#24

1,1-Dichloroethane

Concen: 15.174 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

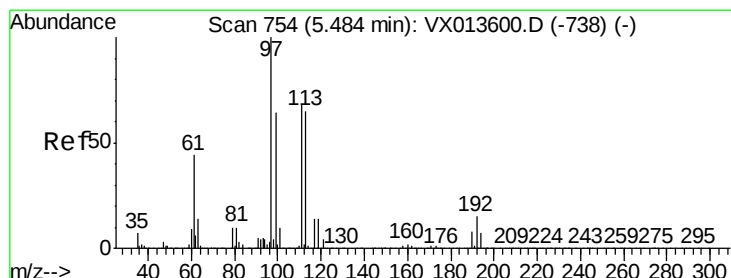
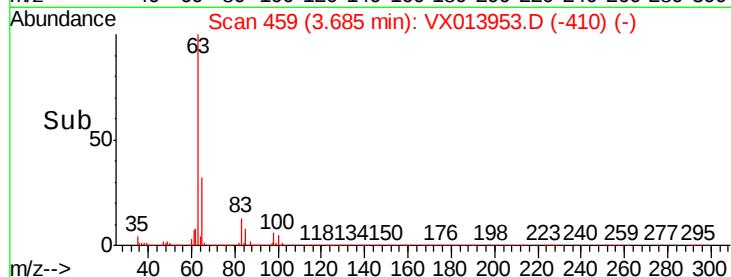
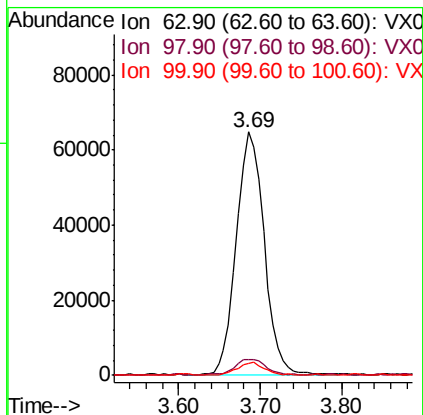
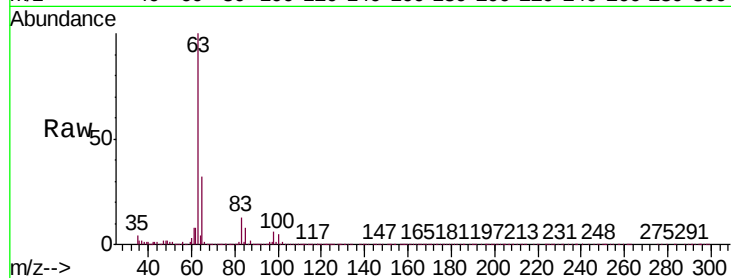
Instrument :

MSVOA_X

ClientSampleId :

SA-PZ188I-20191208

Tgt Ion:	63	Resp:	153314
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.5	10.4
100	4.6	2.1	6.3



#32

1,1,1-Trichloroethane

Concen: 0.710 ug/l

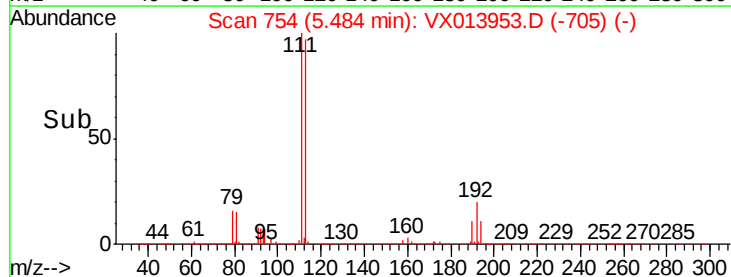
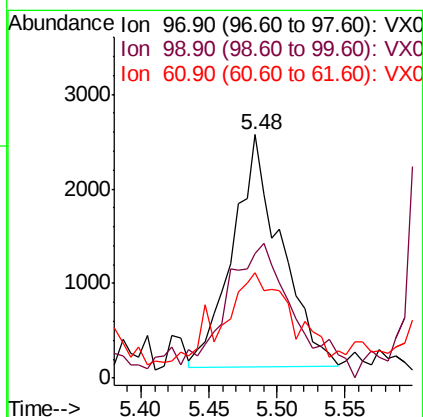
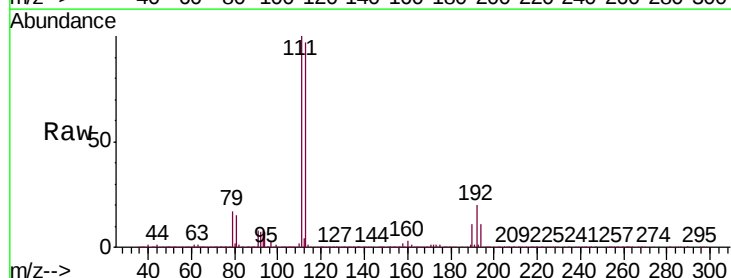
RT: 5.48 min Scan# 754

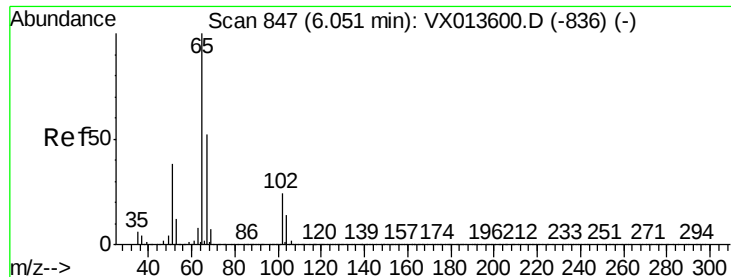
Delta R.T. 0.00 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Tgt Ion:	97	Resp:	6076
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	40.2	36.1	54.1

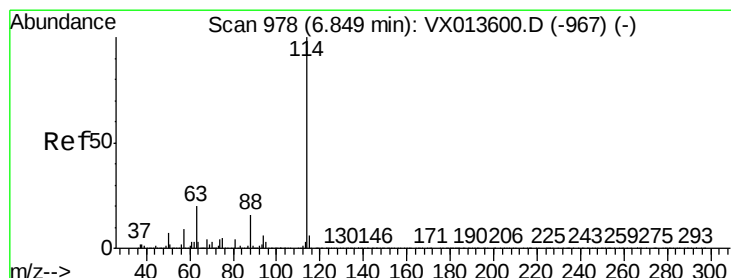
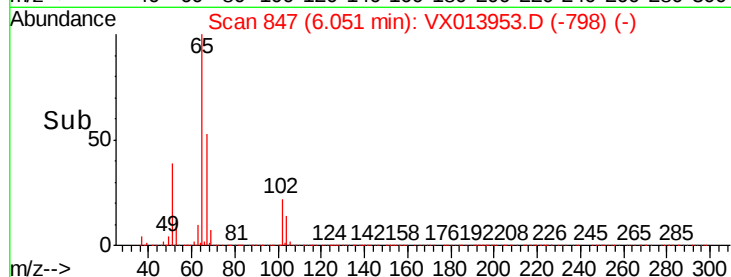
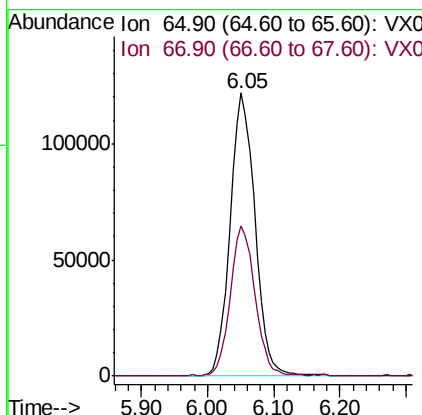
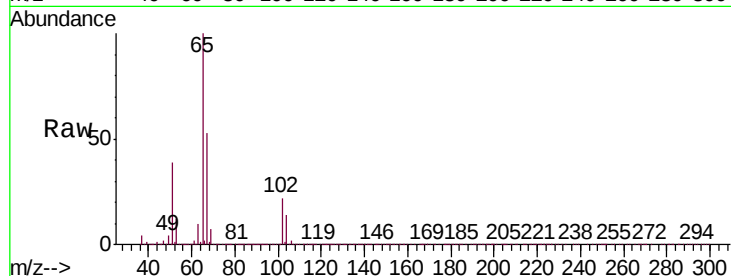




#33
 1,2-Dichloroethane-d4
 Concen: 49.422 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013953.D
 Acq: 11 Dec 2019 19:05

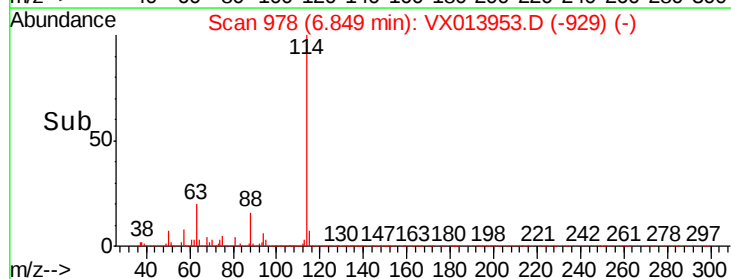
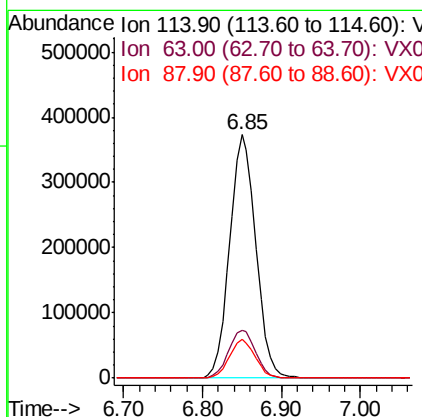
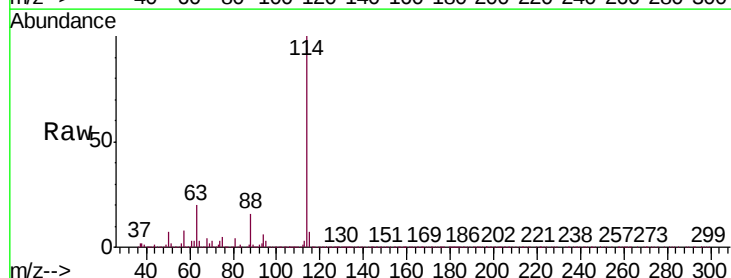
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ188I-20191208

Tgt Ion: 65 Resp: 318843
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013953.D
 Acq: 11 Dec 2019 19:05

Tgt Ion: 114 Resp: 861963
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.6
 88 15.7 0.0 31.4

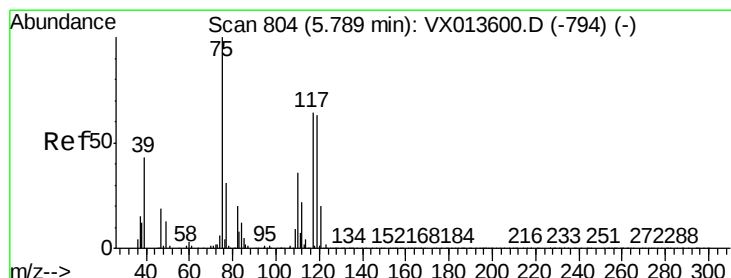
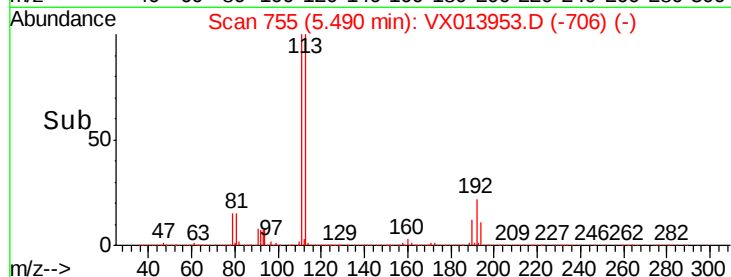
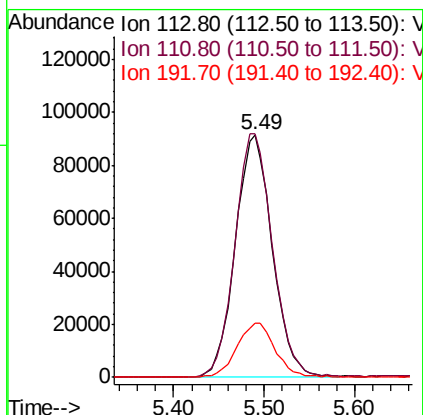
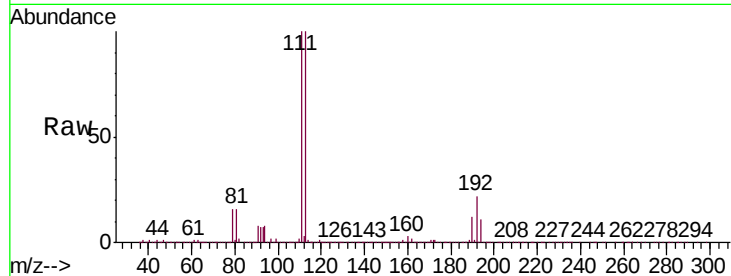




#35
Dibromofluoromethane
Concen: 48.280 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

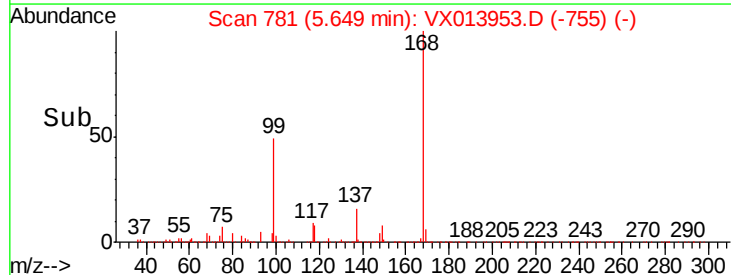
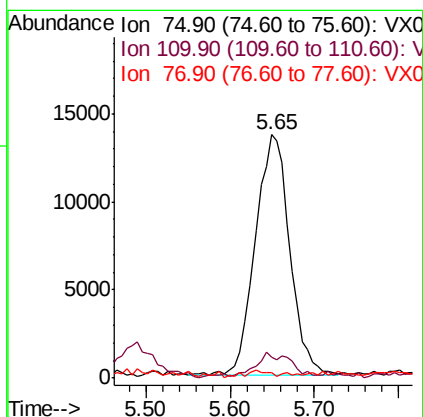
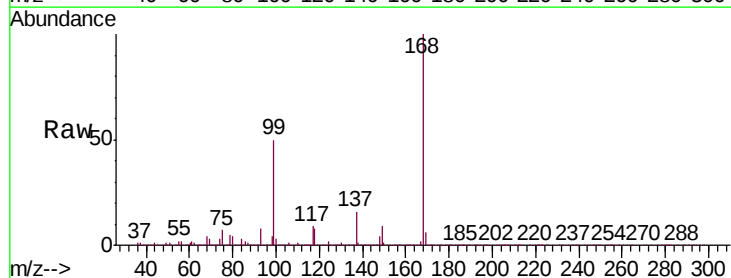
Instrument :
MSVOA_X
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SA-PZ188I-20191208

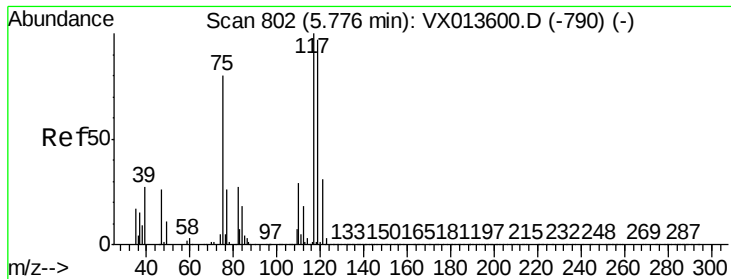
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.6	125.4
192	23.2	19.2	28.8



#36
1,1-Dichloropropene
Concen: 4.891 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.8	18.1	54.1#
77	1.3	24.5	36.7#

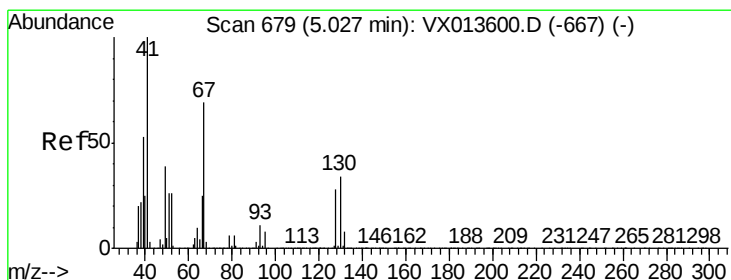
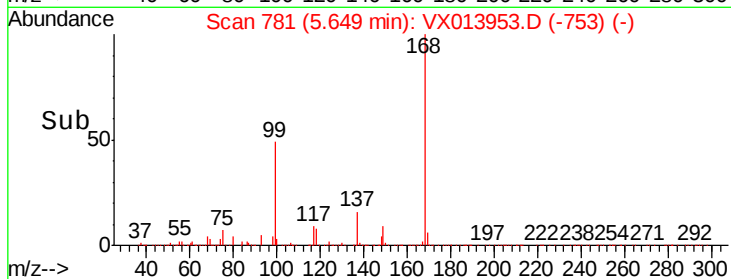
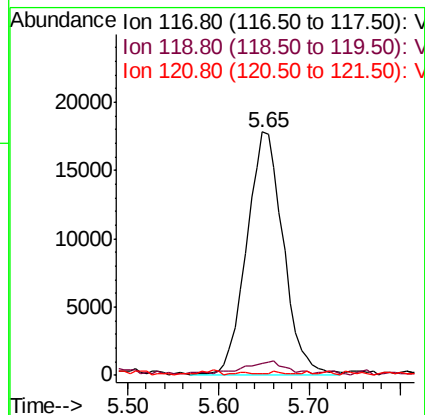
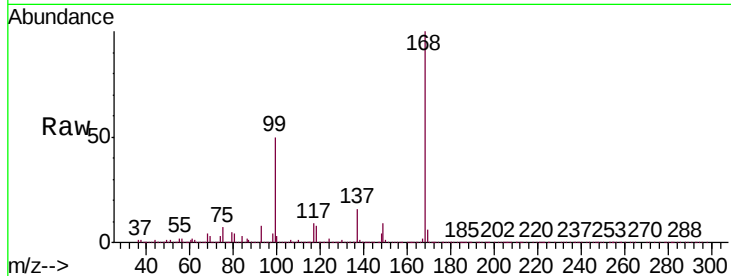




#38
Carbon Tetrachloride
Concen: 6.805 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

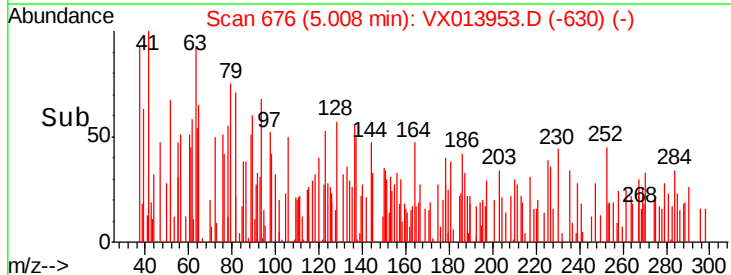
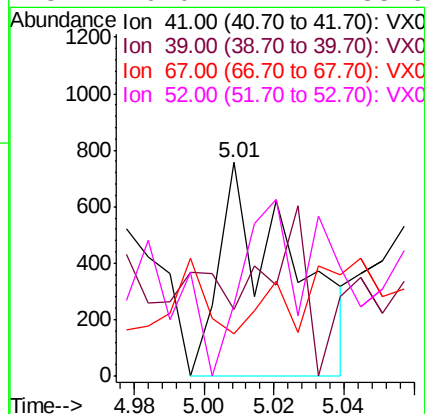
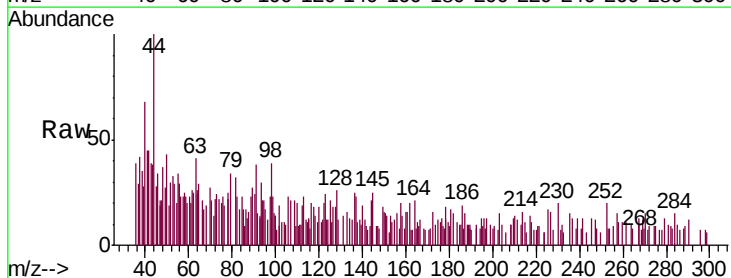
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ188I-20191208

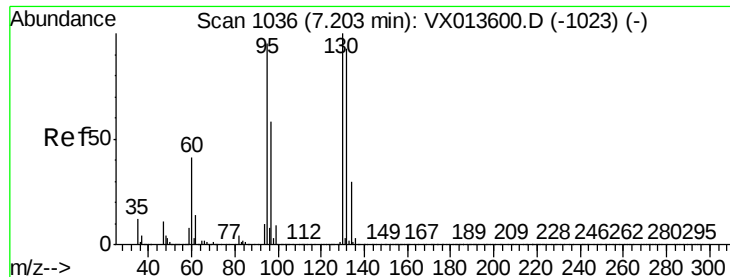
Tgt Ion:117 Resp: 49099
Ion Ratio Lower Upper
117 100
119 3.8 77.5 116.3#
121 0.8 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.222 ug/l
RT: 5.01 min Scan# 676
Delta R.T. -0.02 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

Tgt Ion: 41 Resp: 1070
Ion Ratio Lower Upper
41 100
39 8.8 42.9 64.3#
67 33.8 57.4 86.0#
52 0.0 22.4 33.6#





#44

Trichloroethene

Concen: 0.264 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

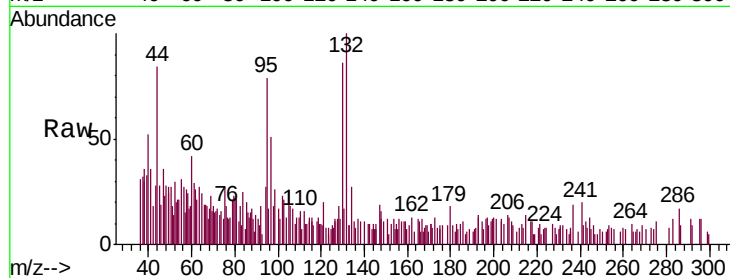
SA-PZ188I-20191208

Tgt Ion: 130 Resp: 1726

Ion Ratio Lower Upper

130 100

95 89.9 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

1200

1000

800

600

400

200

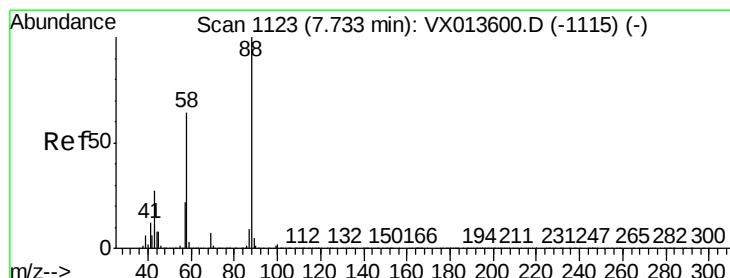
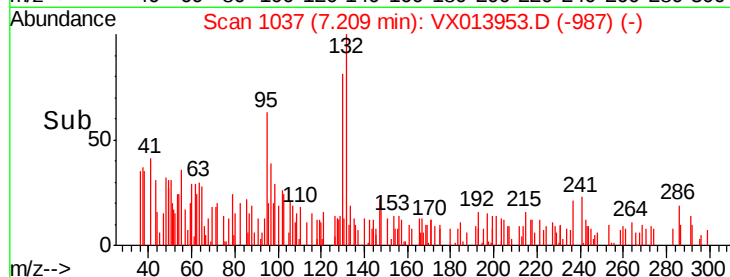
0

7.15

7.20

7.25

Time-->



#49

1,4-Dioxane

Concen: 2.265 ug/l

RT: 7.62 min Scan# 1104

Delta R.T. -0.12 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

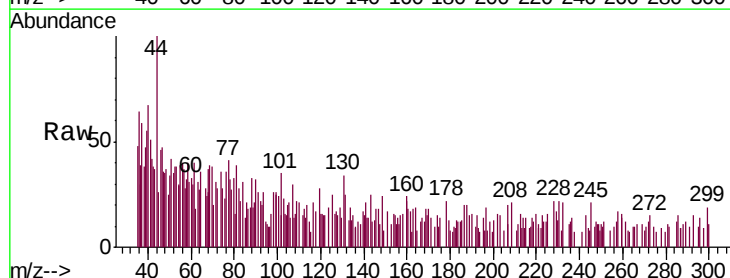
Tgt Ion: 88 Resp: 356

Ion Ratio Lower Upper

88 100

43 28.1 25.8 38.6

58 80.3 54.6 82.0



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

1000

800

600

400

200

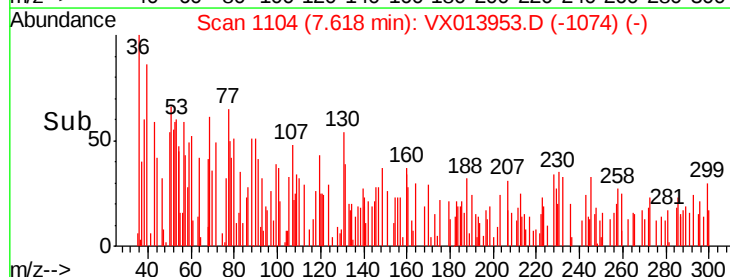
0

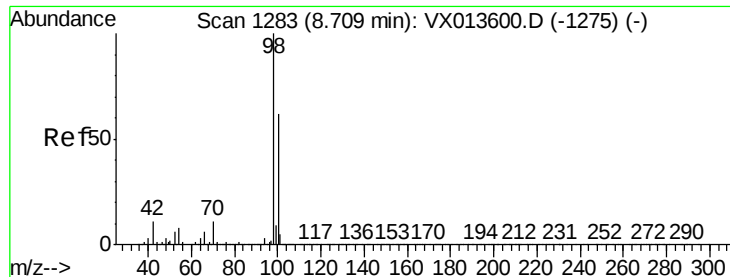
7.55

7.60

7.65

Time-->





#50

Toluene-d8

Concen: 48.845 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

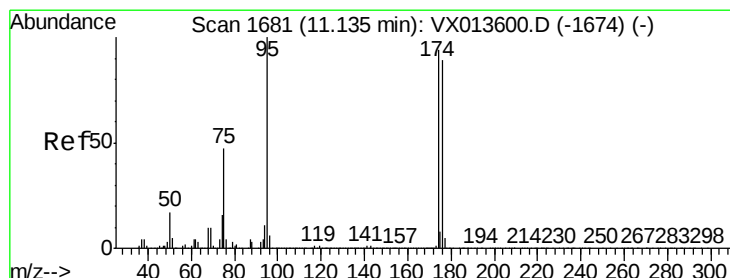
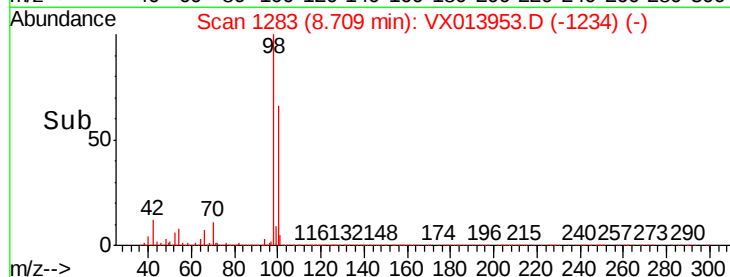
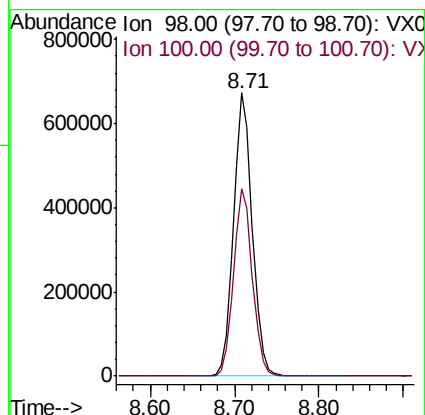
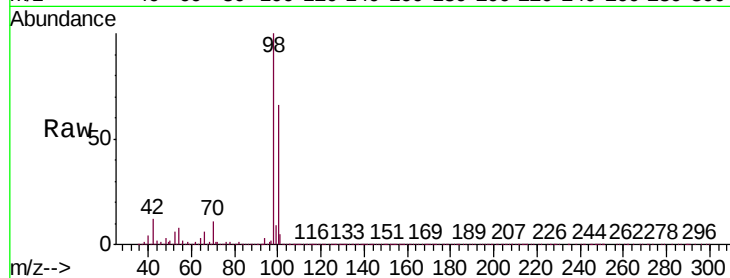
SA-PZ188I-20191208

Tgt Ion: 98 Resp: 1014092

Ion Ratio Lower Upper

98 100

100 66.3 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 45.087 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

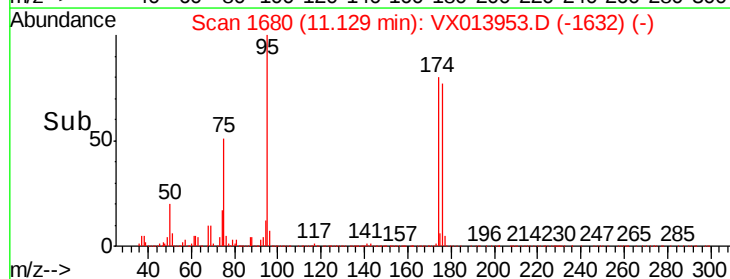
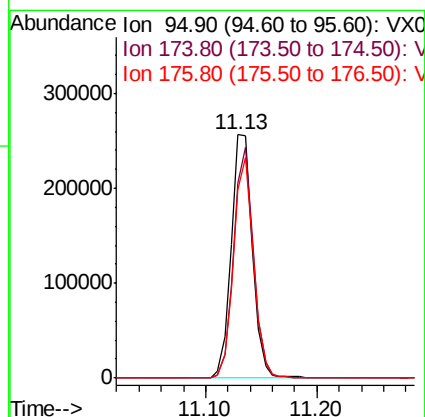
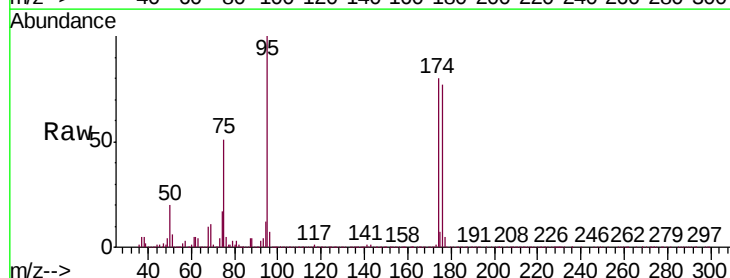
Tgt Ion: 95 Resp: 337552

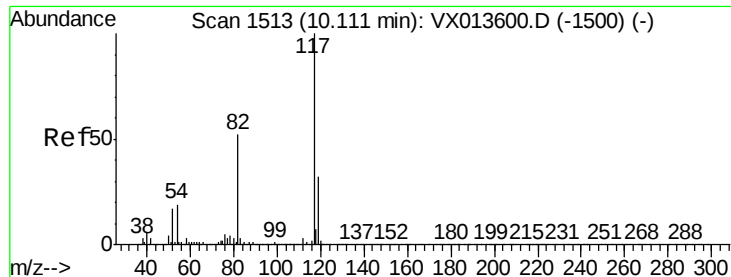
Ion Ratio Lower Upper

95 100

174 89.2 0.0 180.0

176 85.6 0.0 173.6

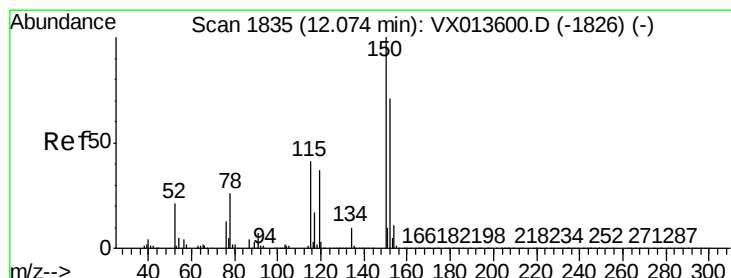
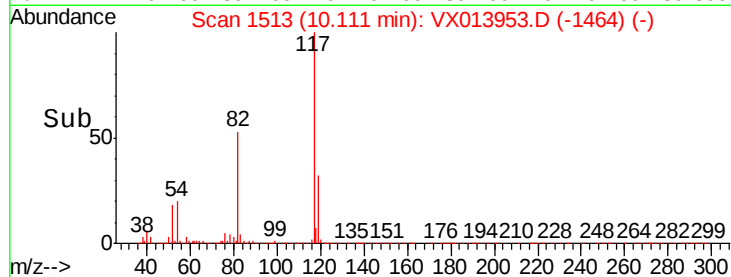
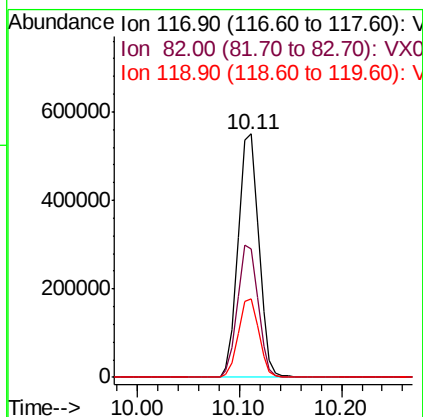
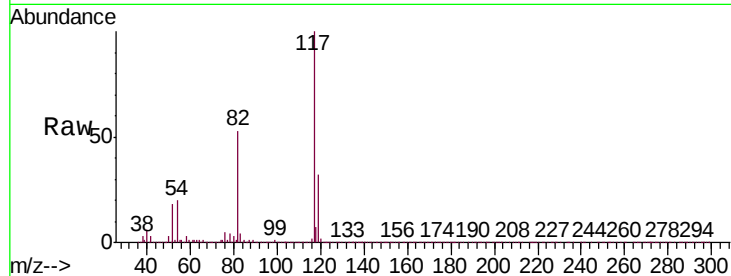




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

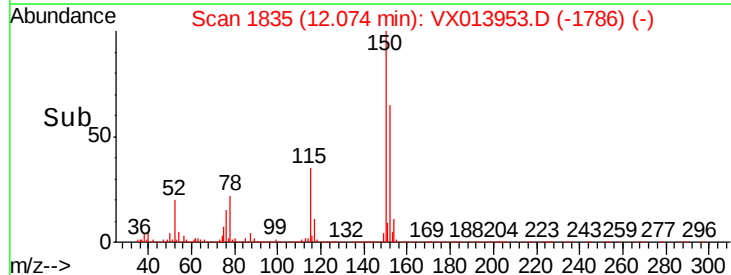
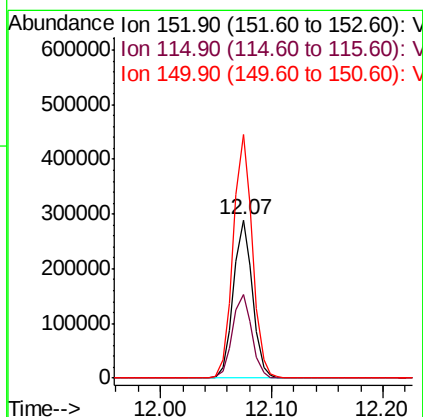
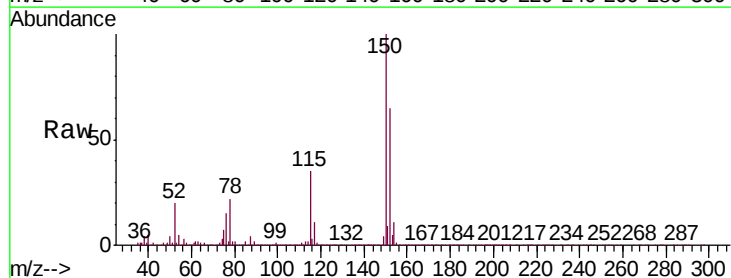
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ188I-20191208

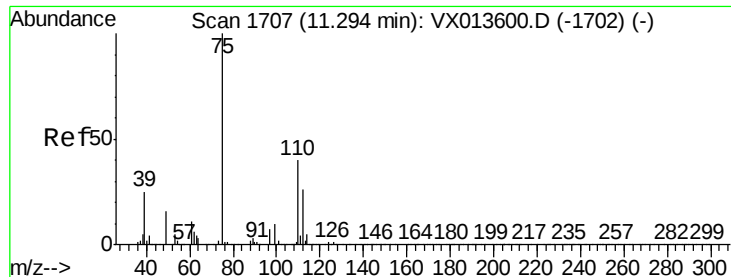
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.8	62.8
119	32.1	25.8	38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013953.D
Acq: 11 Dec 2019 19:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	38.4	115.1
150	155.4	0.0	346.8





#76

1,2,3-Trichloropropane

Concen: 21.536 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

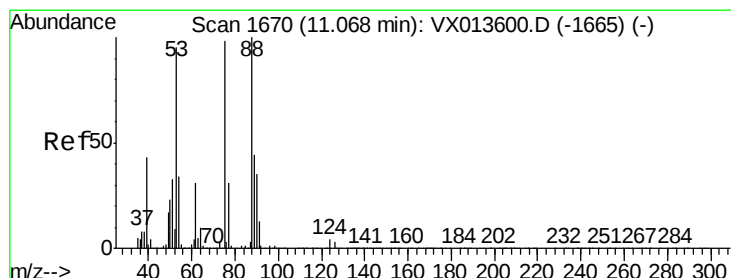
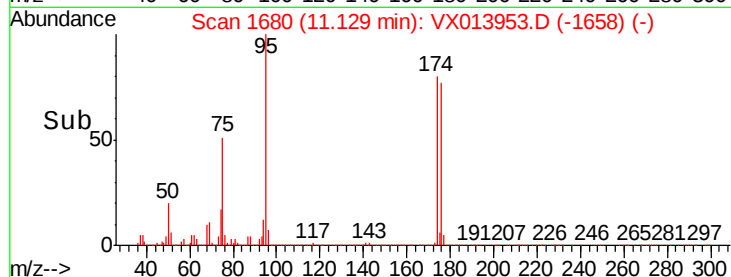
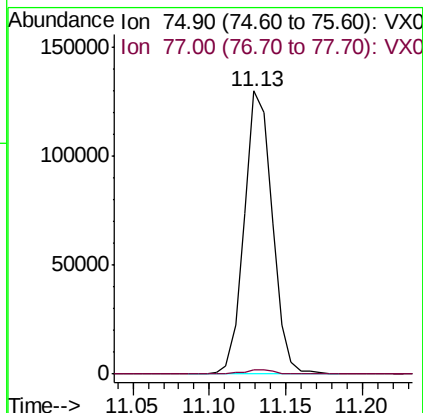
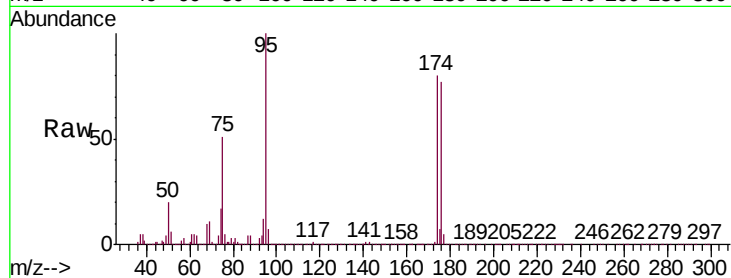
SA-PZ188I-20191208

Tgt Ion: 75 Resp: 165077

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.918 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

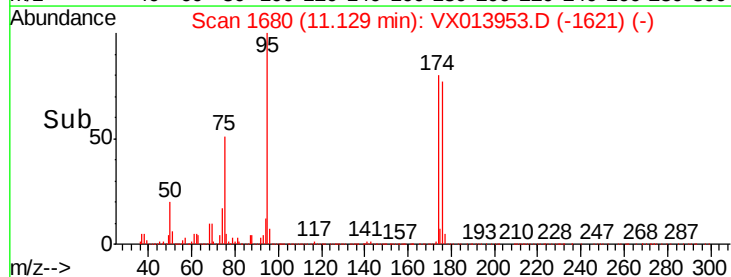
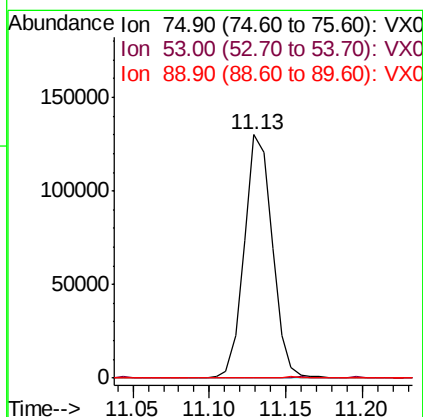
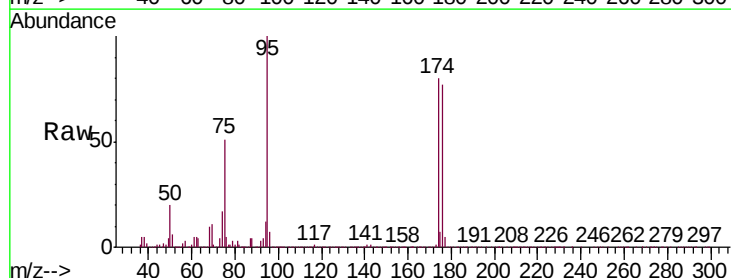
Tgt Ion: 75 Resp: 165077

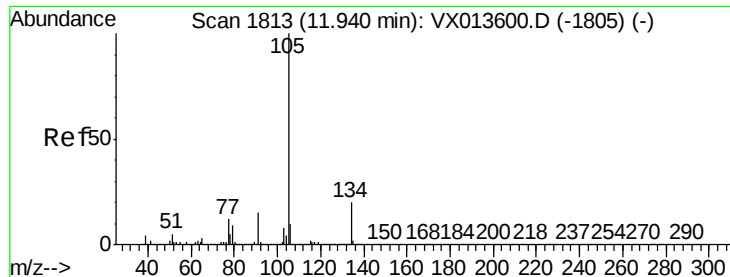
Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

89 0.0 35.4 53.2#

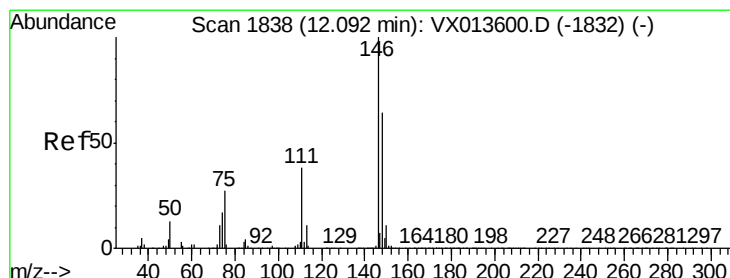
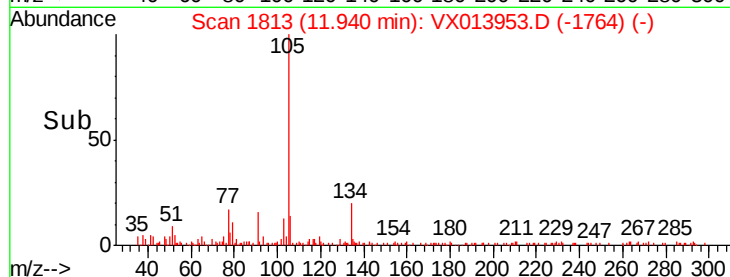
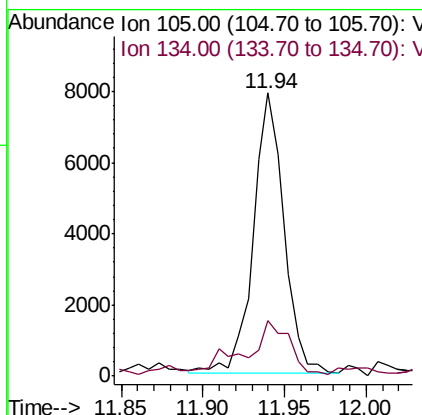
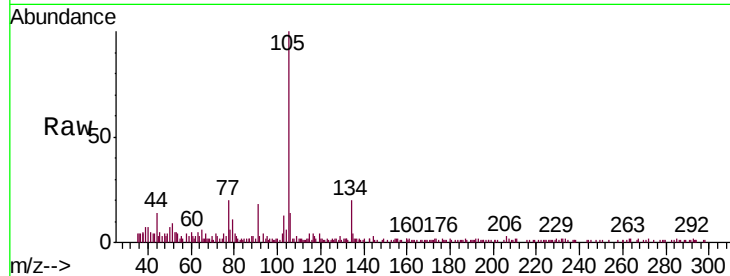




#85
 sec-Butylbenzene
 Concen: 0.451 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. 0.00 min
 Lab File: VX013953.D
 Acq: 11 Dec 2019 19:05

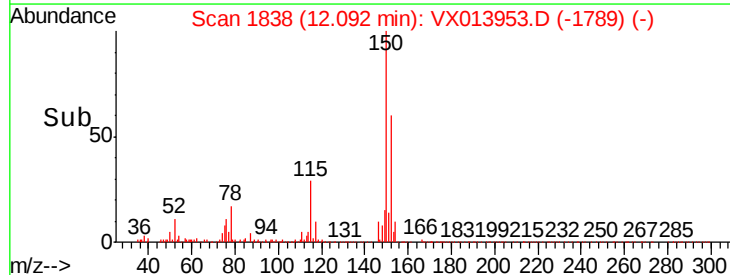
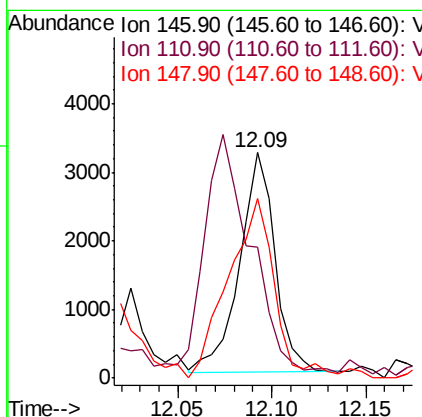
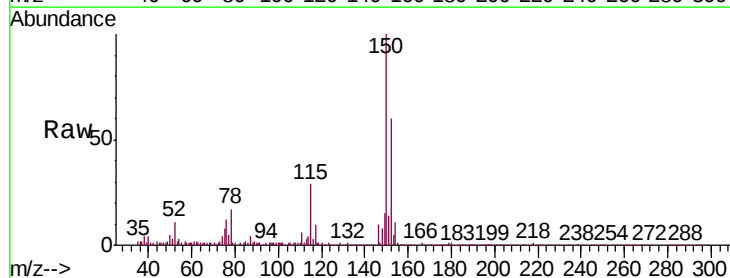
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ188I-20191208

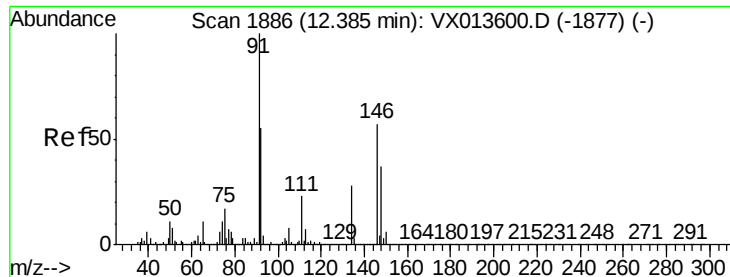
Tgt Ion:105 Resp: 10269
 Ion Ratio Lower Upper
 105 100
 134 18.6 10.4 31.2



#88
 1,4-Dichlorobenzene
 Concen: 0.367 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. 0.00 min
 Lab File: VX013953.D
 Acq: 11 Dec 2019 19:05

Tgt Ion:146 Resp: 4214
 Ion Ratio Lower Upper
 146 100
 111 133.1 18.9 56.9#
 148 105.5 31.9 95.5#





#91

1,2-Dichlorobenzene

Concen: 0.289 ug/l

RT: 12.39 min Scan# 1887

Delta R.T. 0.01 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ188I-20191208

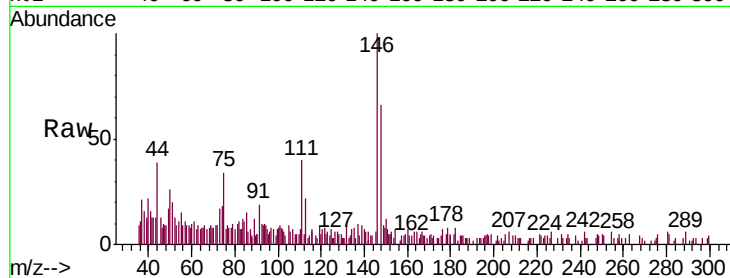
Tgt Ion:146 Resp: 3218

Ion Ratio Lower Upper

146 100

111 47.9 19.6 58.7

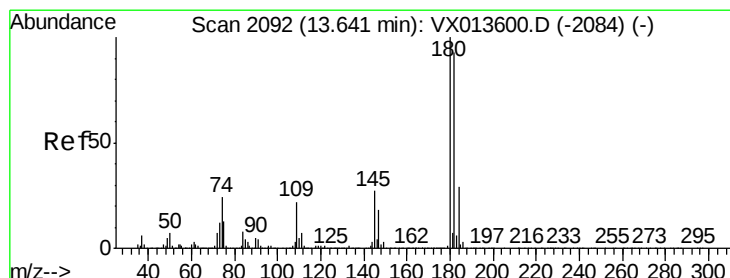
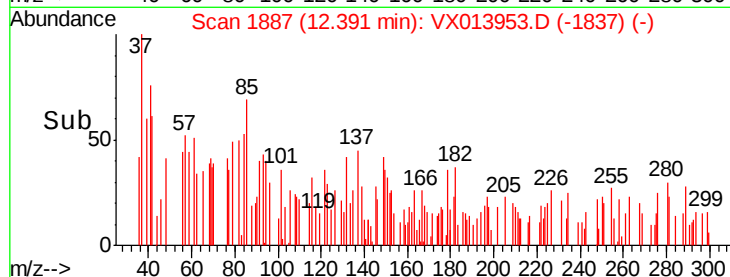
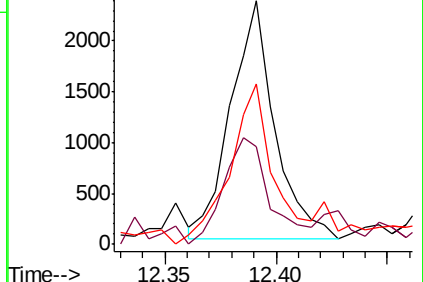
148 67.4 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.908 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX013953.D

Acq: 11 Dec 2019 19:05

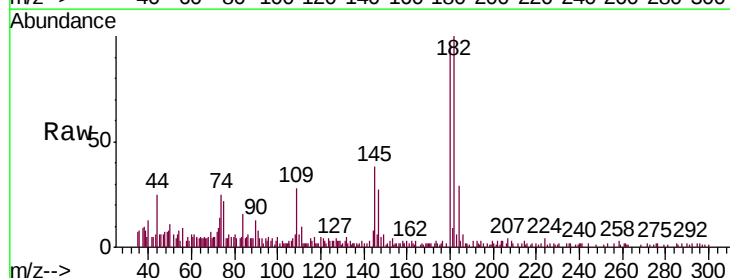
Tgt Ion:180 Resp: 7036

Ion Ratio Lower Upper

180 100

182 95.5 47.2 141.6

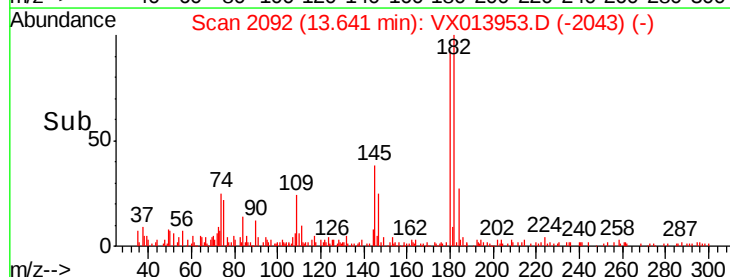
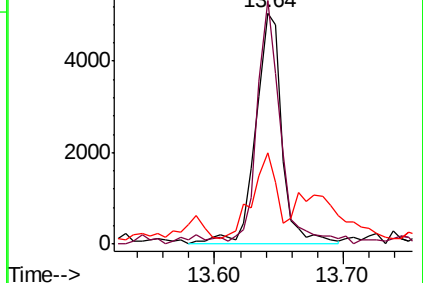
145 33.9 13.8 41.4

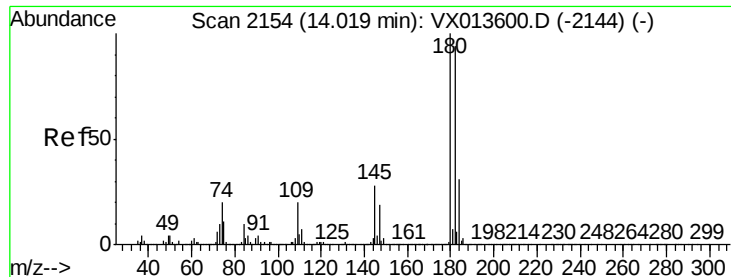


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.379 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VX013953.D
 Acq: 11 Dec 2019 19:05

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ188I-20191208

Tgt Ion	Ratio	Lower	Upper
180	100		
182	106.8	47.6	142.8
145	58.4	15.0	45.0

