

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX0137852.D
 Acq On : 09 Dec 2019 15:23
 Operator : JC/SP
 Sample : K6184-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 10 03:26:21 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	616214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	941664	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	831164	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	359705	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	344139	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	
35) Dibromofluoromethane	5.49	113	278762	47.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.78%	
50) Toluene-d8	8.71	98	1110865	48.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	11.14	95	365939	44.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.48%	

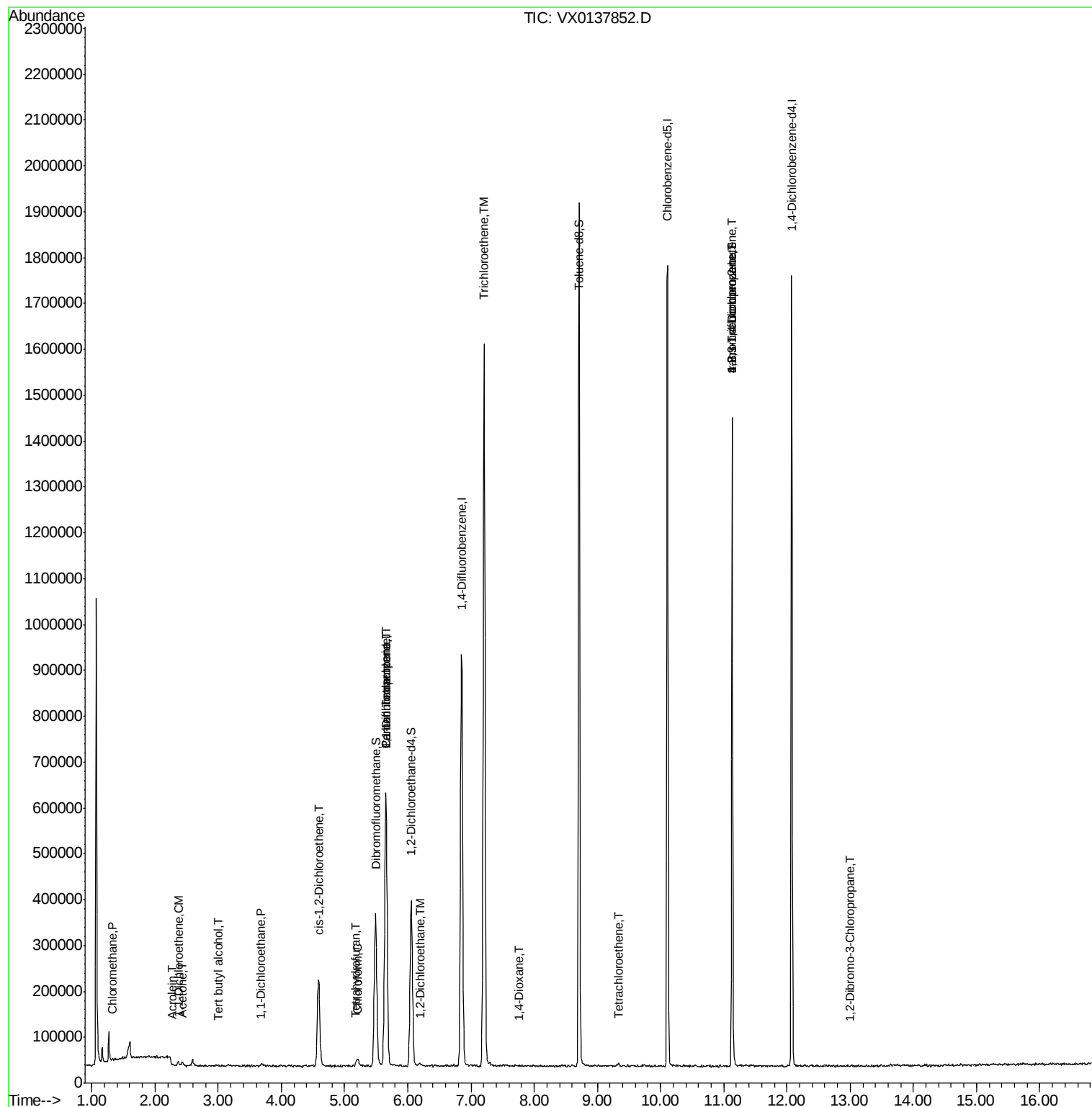
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2034	0.264	ug/l	95
11) Tert butyl alcohol	3.01	59	852	0.483	ug/l #	1
12) 1,1-Dichloroethene	2.36	96	2867	0.489	ug/l	99
13) Acrolein	2.26	56	400	6.334	ug/l #	38
16) Acetone	2.44	43	11559	3.273	ug/l	91
24) 1,1-Dichloroethane	3.68	63	7368	0.658	ug/l #	92
27) cis-1,2-Dichloroethene	4.58	96	123946	16.894	ug/l	89
29) Tetrahydrofuran	5.17	42	779	0.241	ug/l	94
30) Chloroform	5.20	83	20571	1.811	ug/l	89
36) 1,1-Dichloropropene	5.65	75	42194	4.936	ug/l #	53
38) Carbon Tetrachloride	5.65	117	53636	6.805	ug/l #	15
42) 1,2-Dichloroethane	6.19	62	7287	0.821	ug/l	93
44) Trichloroethene	7.21	130	630308	88.217	ug/l	97
49) 1,4-Dioxane	7.76	88	714	4.158	ug/l #	24
64) Tetrachloroethene	9.33	164	1268	0.205	ug/l #	61
76) 1,2,3-Trichloropropane	11.13	75	178925	22.116	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	178925	60.505	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	555	0.291	ug/l #	44

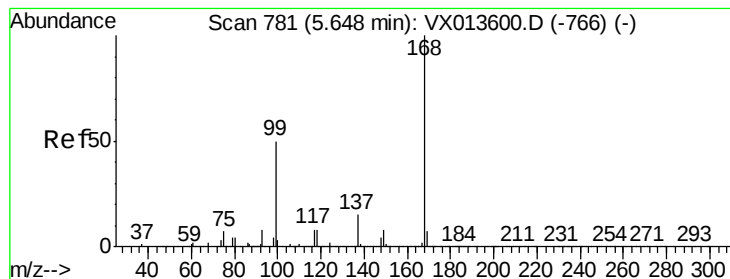
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

Instrument :

MSVOA_X

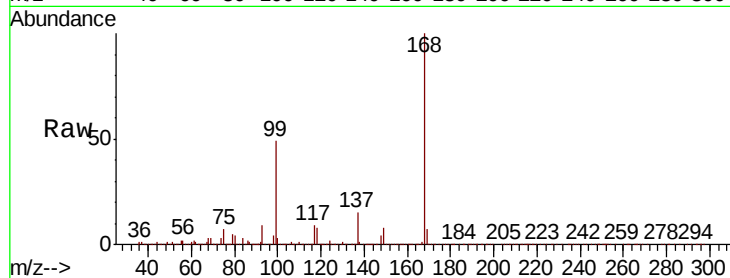
ClientSampleId :

Tot Ion:168 Resp: 616214

Ion Ratio Lower Upper

168 100

99 49.4 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

250000

200000

150000

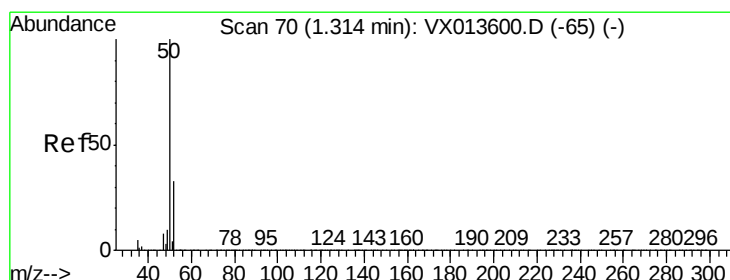
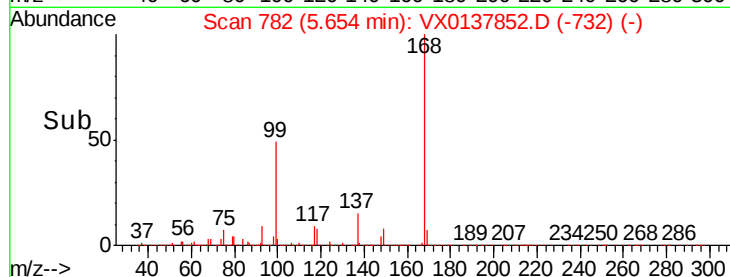
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.264 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX0137852.D

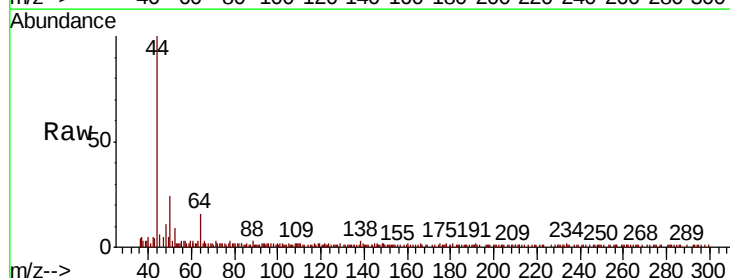
Acq: 09 Dec 2019 15:23

Tgt Ion: 50 Resp: 2034

Ion Ratio Lower Upper

50 100

52 29.8 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

2500

2000

1500

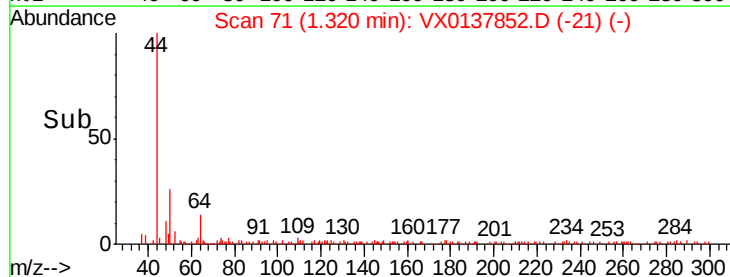
1000

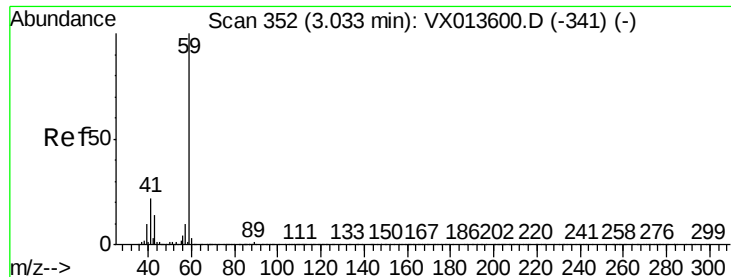
500

0

Time-->

1.30 1.32 1.34



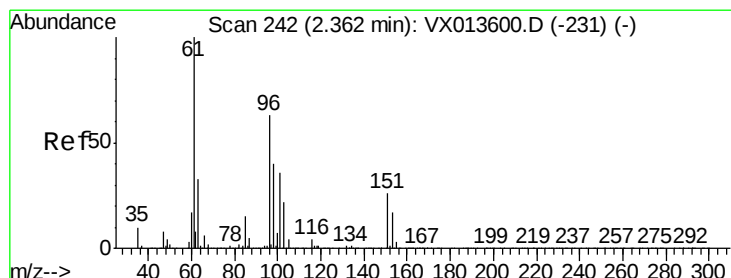
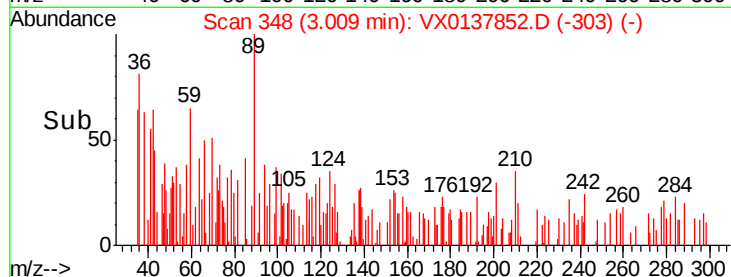
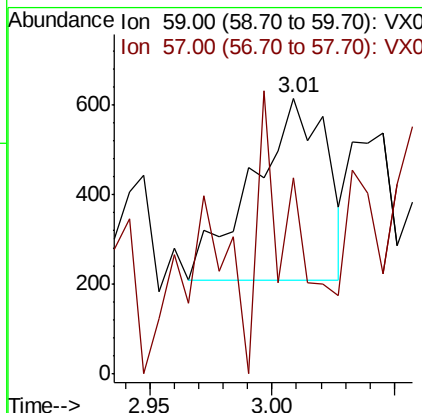
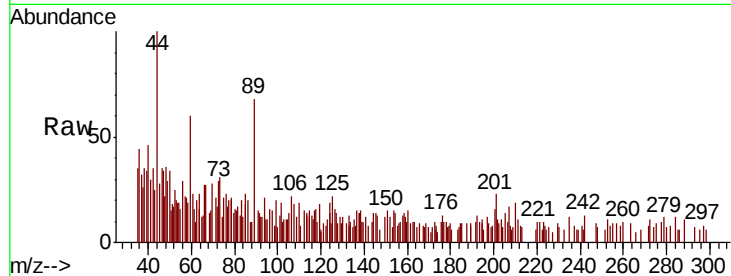


#11

Tert butyl alcohol
Concen: 0.483 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Instrument :
MSVOA_X
ClientSampled :

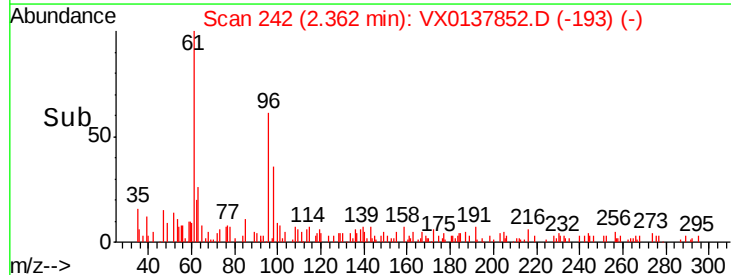
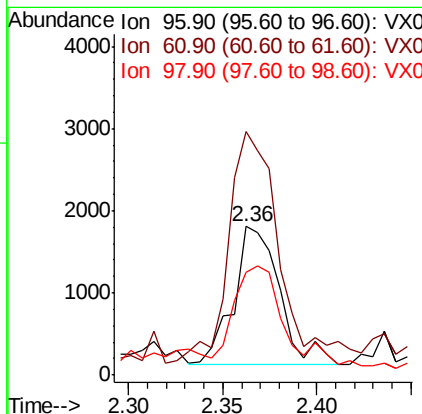
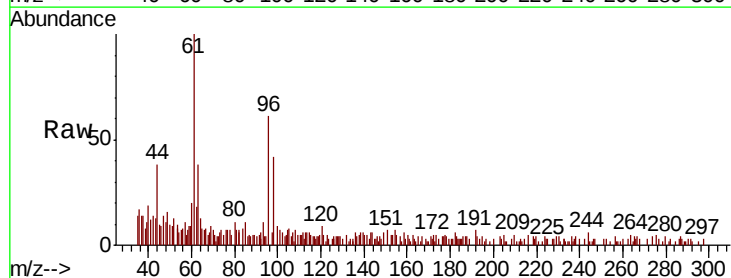
Tot Ion: 59 Resp: 852
Ion Ratio Lower Upper
59 100
57 79.7 7.8 11.6#

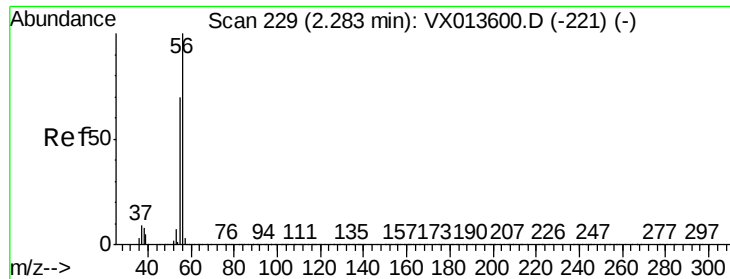


#12

1,1-Dichloroethene
Concen: 0.489 ug/l
RT: 2.36 min Scan# 242
Delta R.T. -0.00 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Tgt Ion: 96 Resp: 2867
Ion Ratio Lower Upper
96 100
61 158.4 126.6 190.0
98 66.7 50.6 76.0

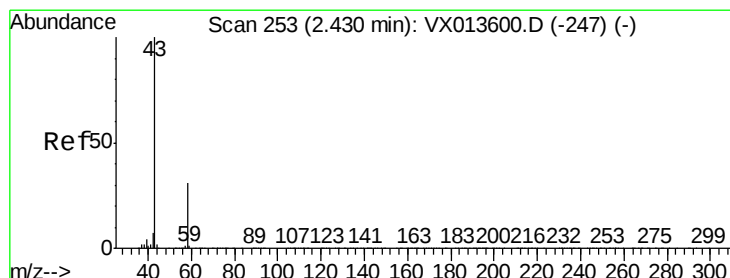
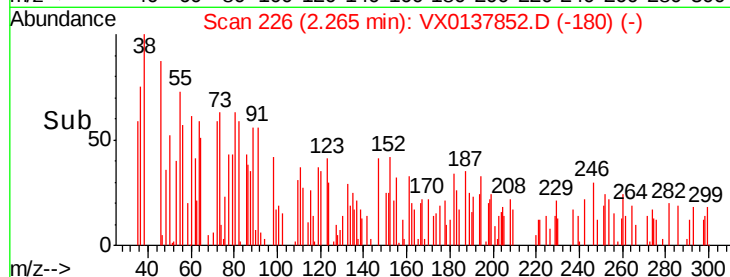
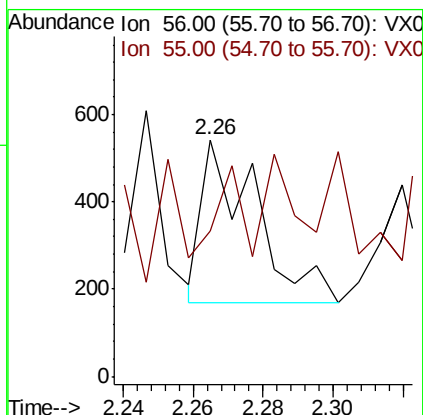
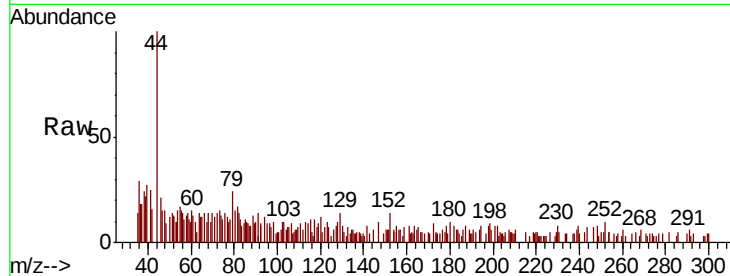




#13
Acrolein
Concen: 6.334 ug/l
RT: 2.26 min Scan# 226
Delta R.T. -0.02 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

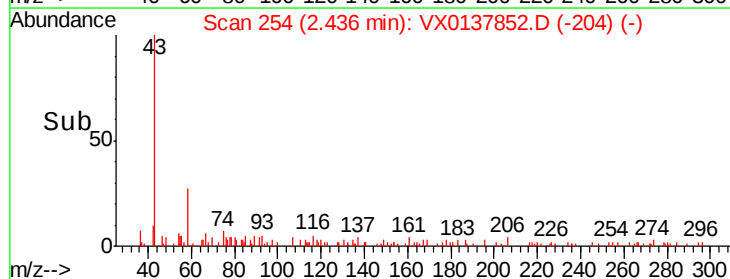
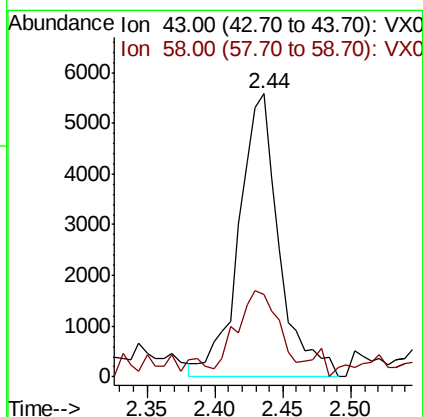
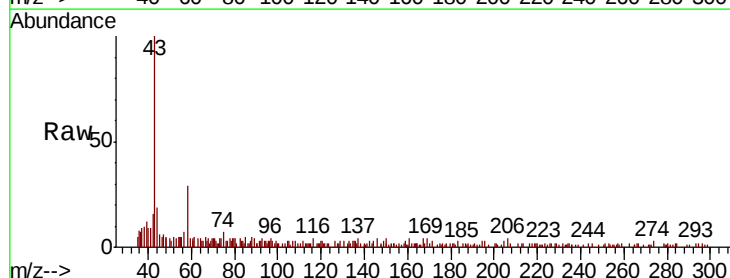
Instrument :
MSVOA_X
ClientSampled :

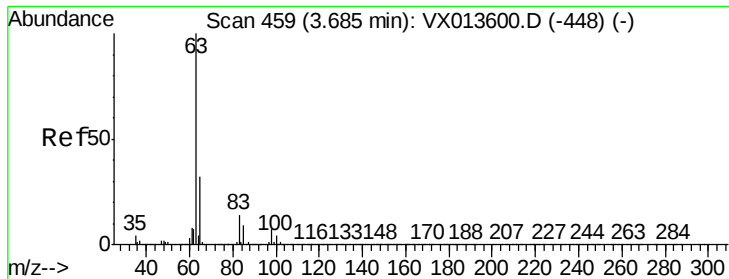
Tot Ion: 56 Resp: 400
Ion Ratio Lower Upper
56 100
55 19.0 56.2 84.4#



#16
Acetone
Concen: 3.273 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Tgt Ion: 43 Resp: 11559
Ion Ratio Lower Upper
43 100
58 26.0 24.6 36.8





#24

1,1-Dichloroethane

Concen: 0.658 ug/l

RT: 3.68 min Scan# 458

Delta R.T. -0.01 min

Lab File: VX0137852.D

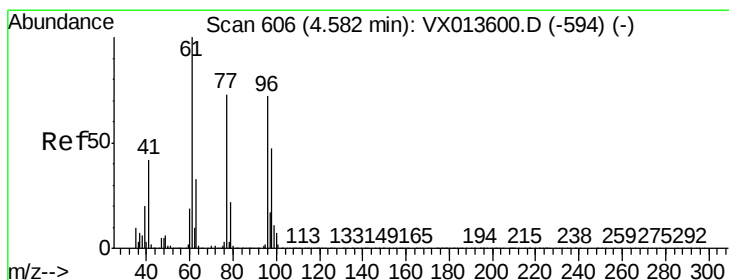
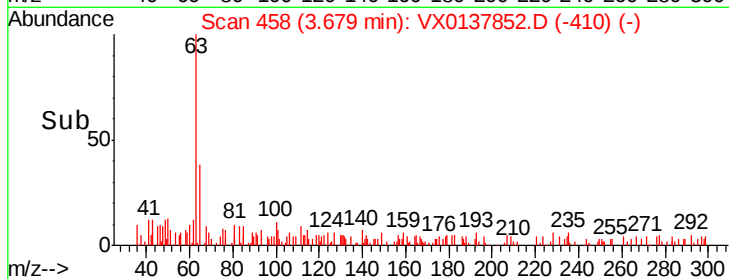
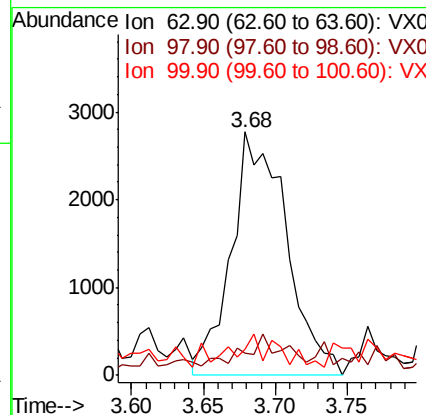
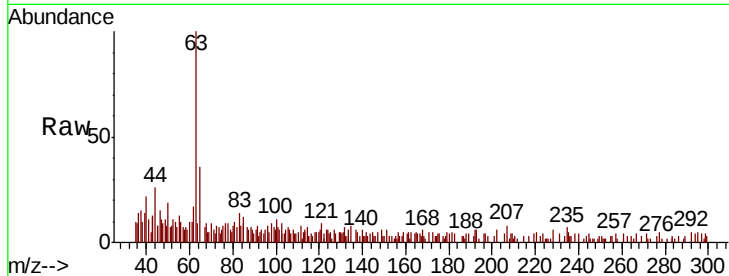
Acq: 09 Dec 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	63	Resp:	7368
Ion	Ratio	Lower	Upper
63	100		
98	4.1	3.5	10.4
100	7.1	2.1	6.3#



#27

cis-1,2-Dichloroethene

Concen: 16.894 ug/l

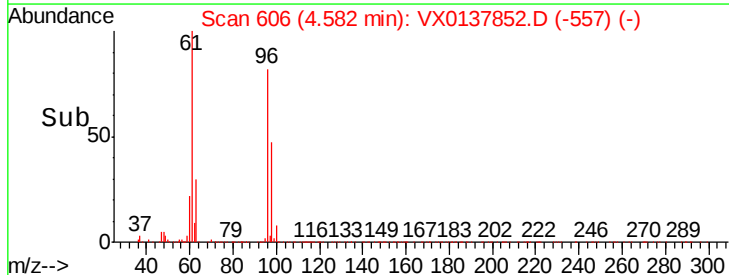
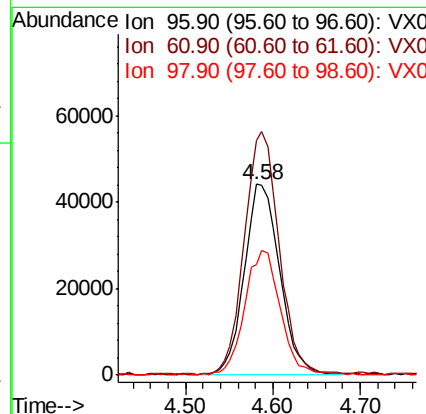
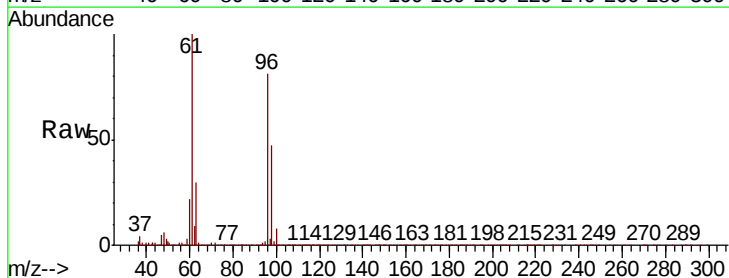
RT: 4.58 min Scan# 606

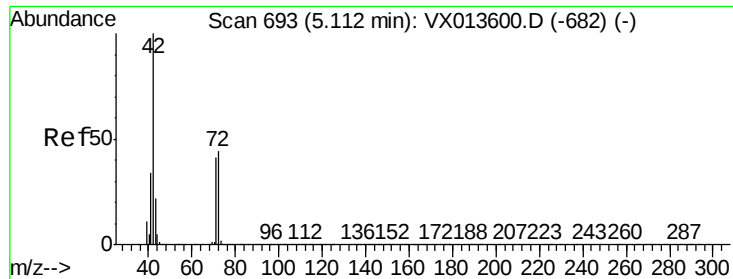
Delta R.T. -0.00 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

Tgt Ion:	96	Resp:	123946
Ion	Ratio	Lower	Upper
96	100		
61	124.5	0.0	286.4
98	65.7	0.0	127.4

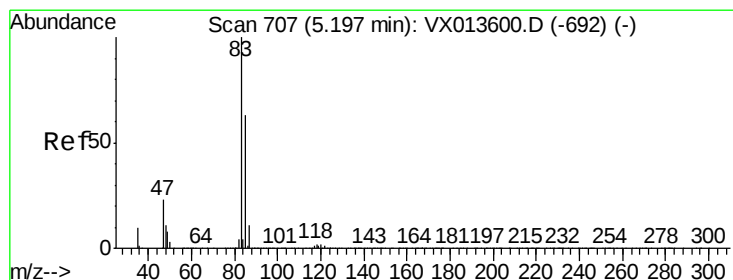
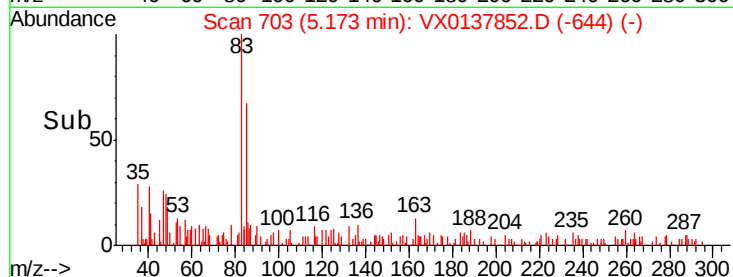
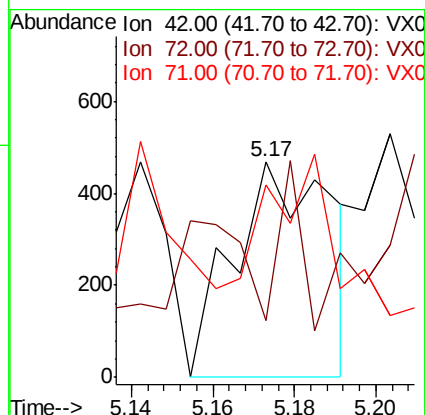
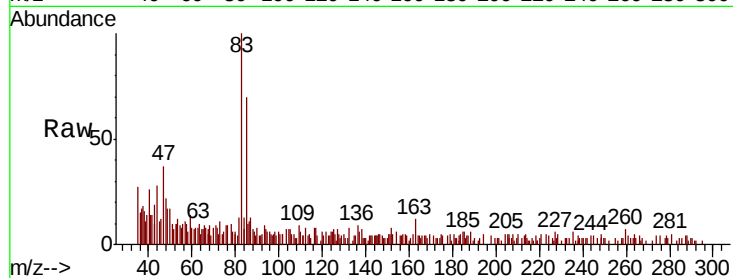




#29
Tetrahydrofuran
Concen: 0.241 ug/l
RT: 5.17 min Scan# 703
Delta R.T. 0.06 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

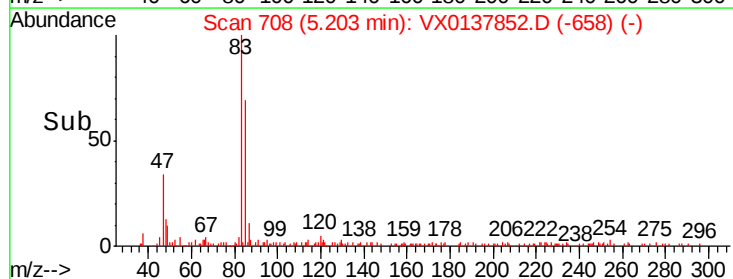
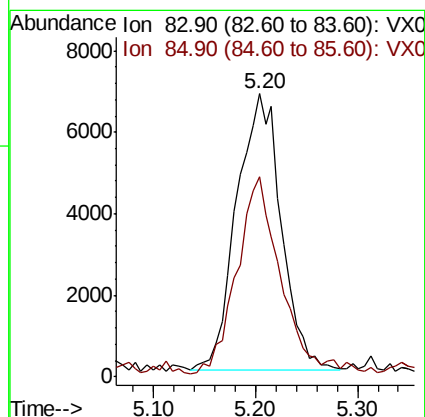
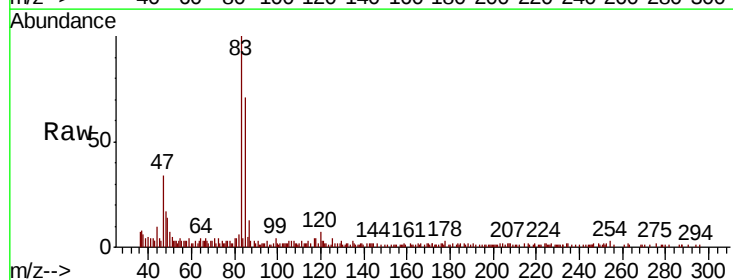
Instrument :
MSVOA_X
ClientSampleId :

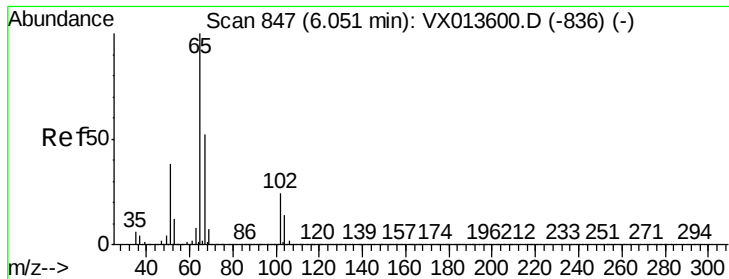
Tot Ion: 42 Resp: 779
Ion Ratio Lower Upper
42 100
72 41.5 36.3 54.5
71 45.1 33.2 49.8



#30
Chloroform
Concen: 1.811 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Tgt Ion: 83 Resp: 20571
Ion Ratio Lower Upper
83 100
85 71.5 50.2 75.4





#33

1,2-Dichloroethane-d4

Concen: 48.112 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

Instrument :

MSVOA_X

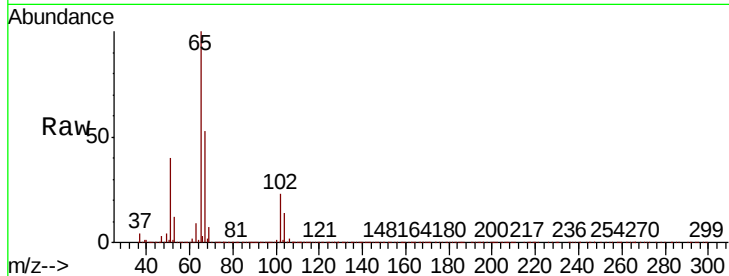
ClientSampled :

Tot Ion: 65 Resp: 344139

Ion Ratio Lower Upper

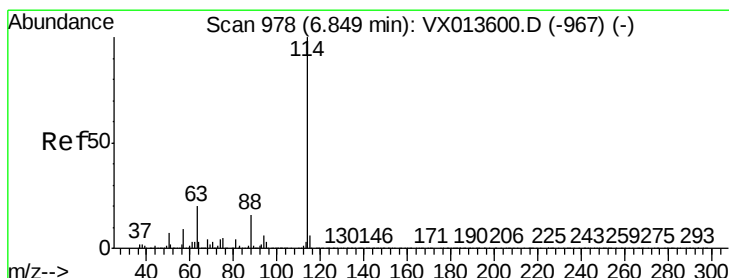
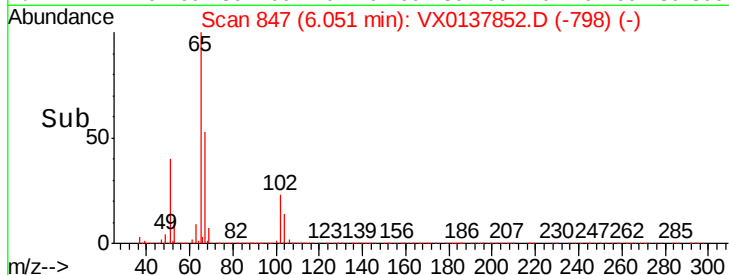
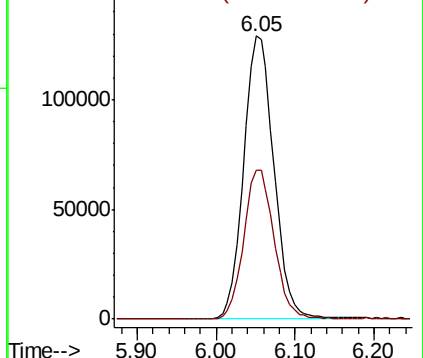
65 100

67 52.6 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: VX0137852.D

Acq: 09 Dec 2019 15:23

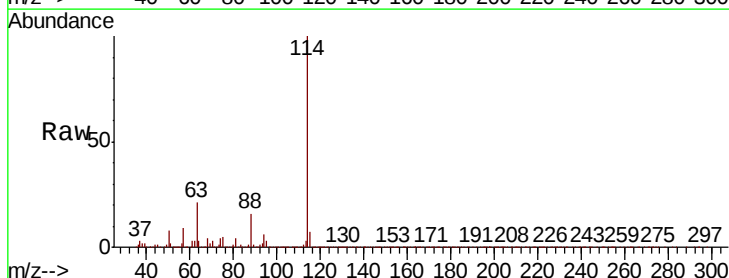
Tgt Ion: 114 Resp: 941664

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.6

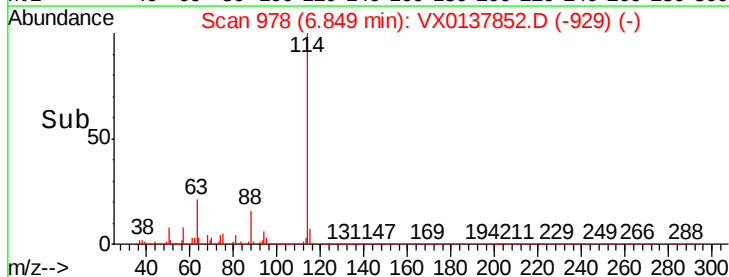
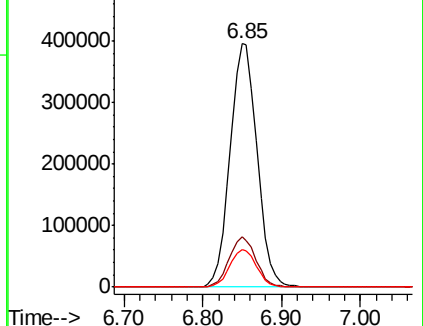
88 15.7 0.0 31.4

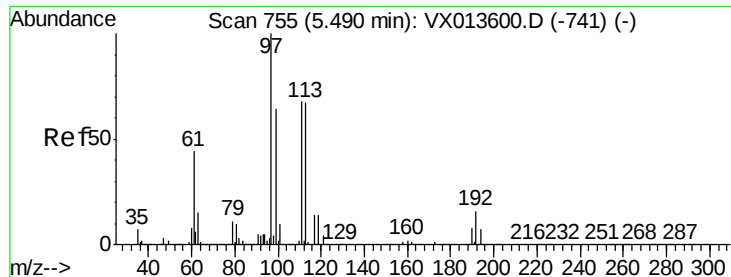


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

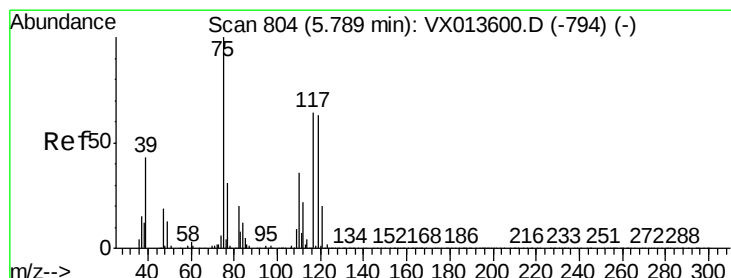
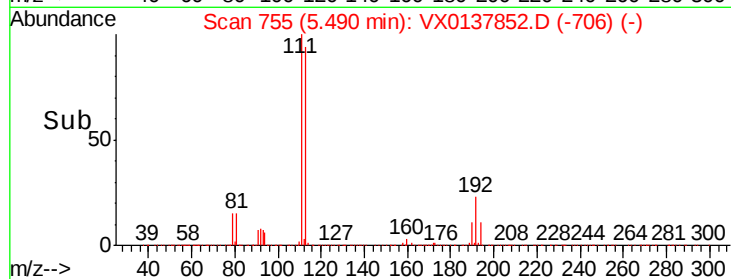
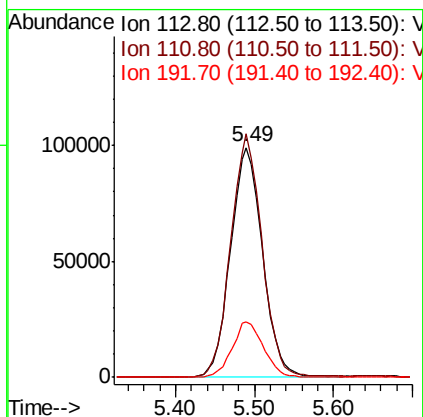
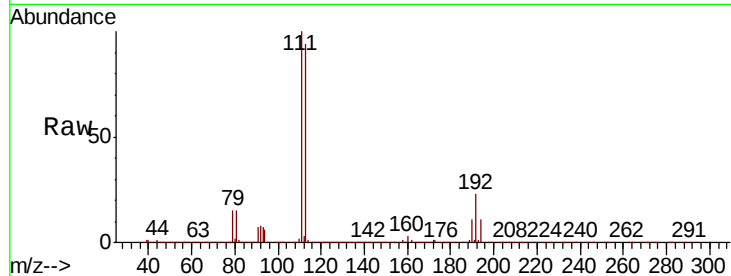




#35
 Dibromofluoromethane
 Concen: 47.885 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX0137852.D
 Acq: 09 Dec 2019 15:23

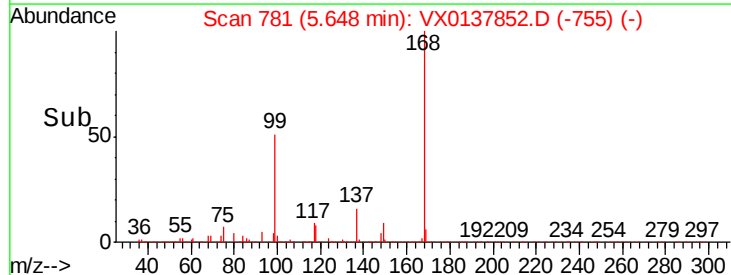
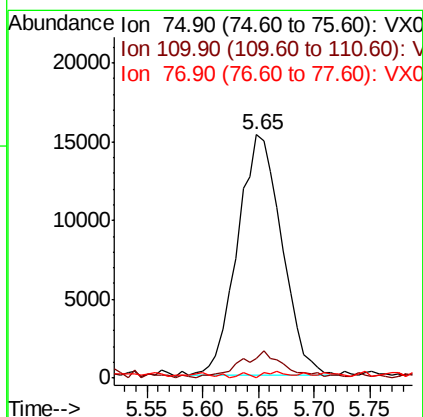
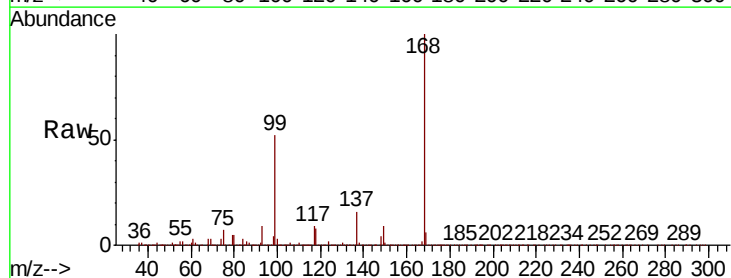
Instrument :
 MSVOA_X
 ClientSampleId :

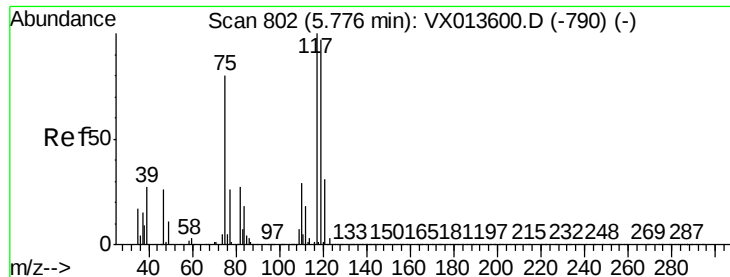
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.6	125.4
192	23.6	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.936 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX0137852.D
 Acq: 09 Dec 2019 15:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	18.1	54.1#
77	1.3	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.805 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

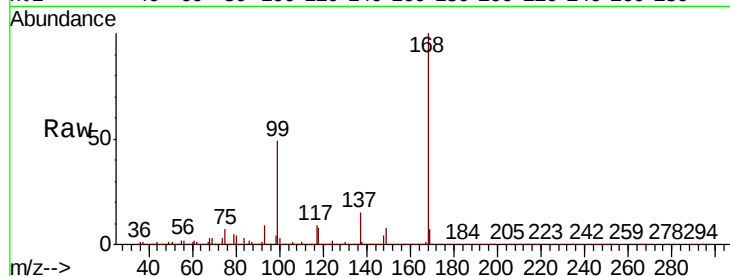
Tot Ion:117 Resp: 53636

Ion Ratio Lower Upper

117 100

119 4.4 77.5 116.3#

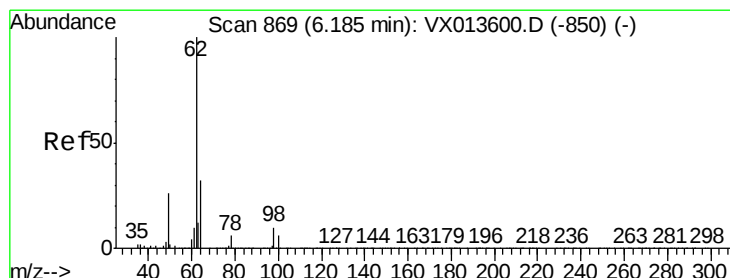
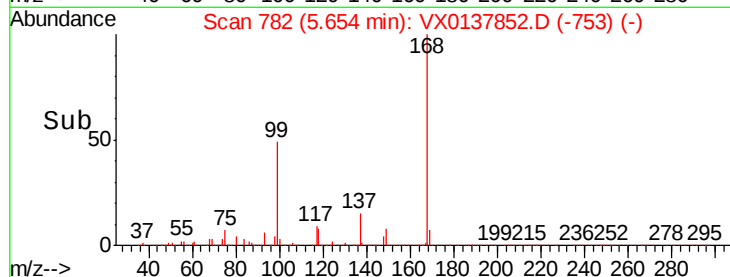
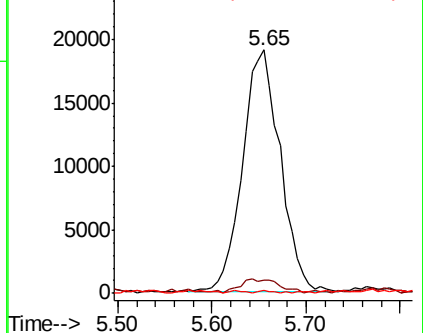
121 0.9 25.0 37.6#



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



#42

1,2-Dichloroethane

Concen: 0.821 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX0137852.D

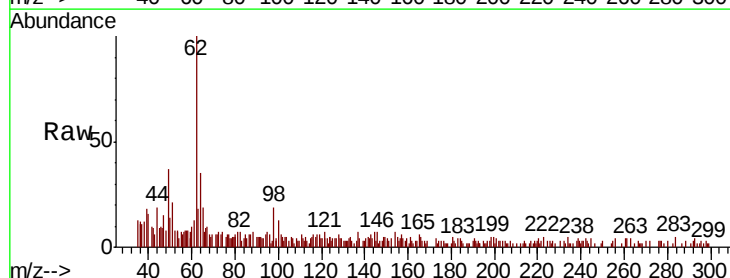
Acq: 09 Dec 2019 15:23

Tgt Ion: 62 Resp: 7287

Ion Ratio Lower Upper

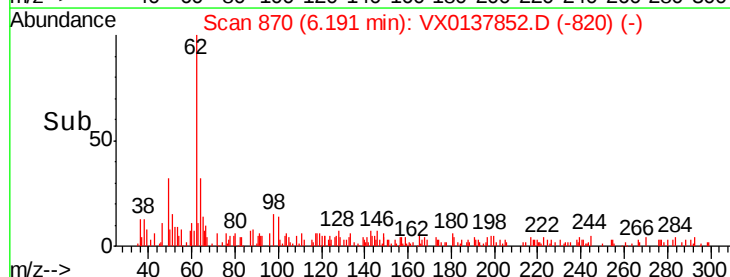
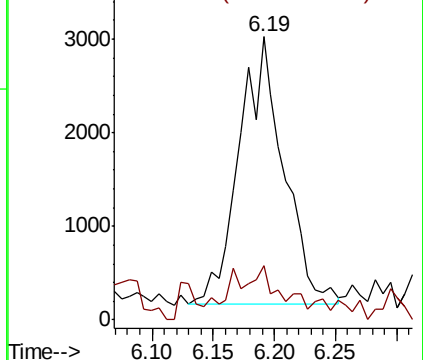
62 100

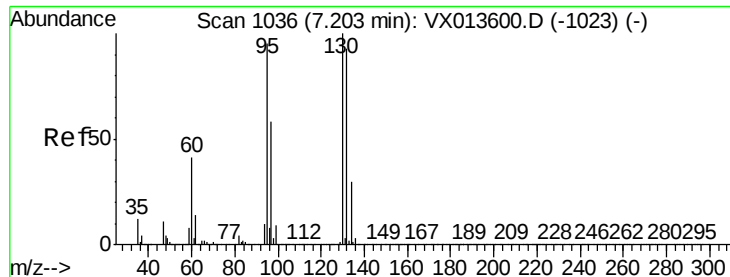
98 7.6 0.0 20.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 88.217 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

Instrument :

MSVOA_X

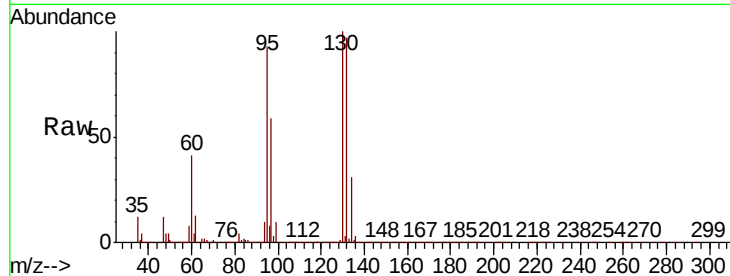
ClientSampleId :

Tot Ion:130 Resp: 630308

Ion Ratio Lower Upper

130 100

95 92.9 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

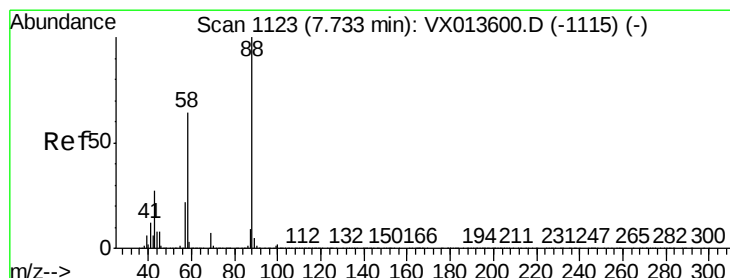
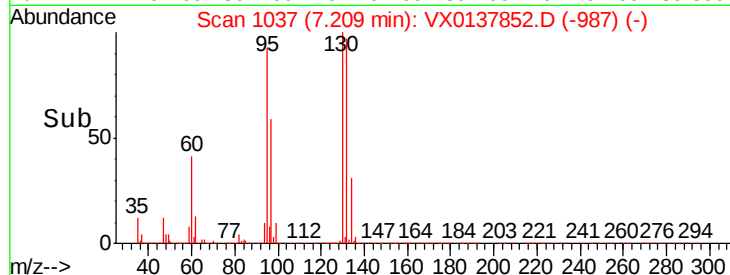
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 4.158 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

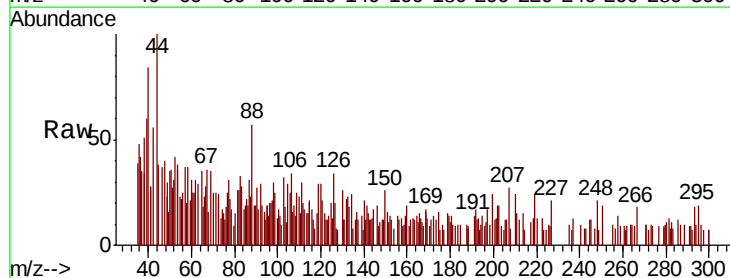
Tgt Ion: 88 Resp: 714

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 0.0 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

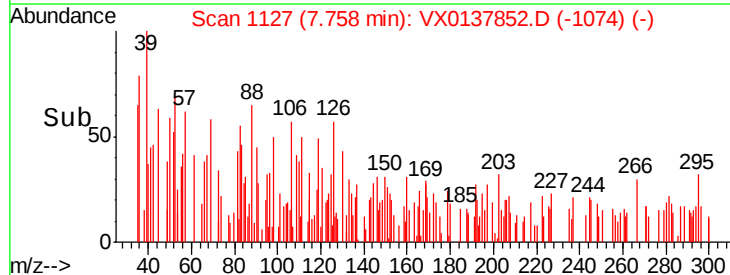
600

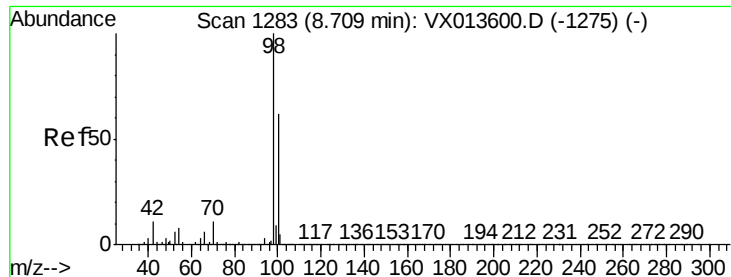
400

200

0

Time-->

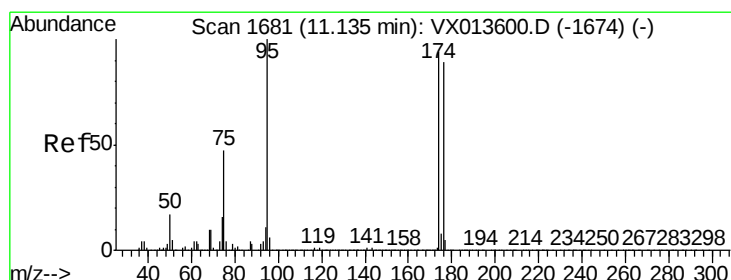
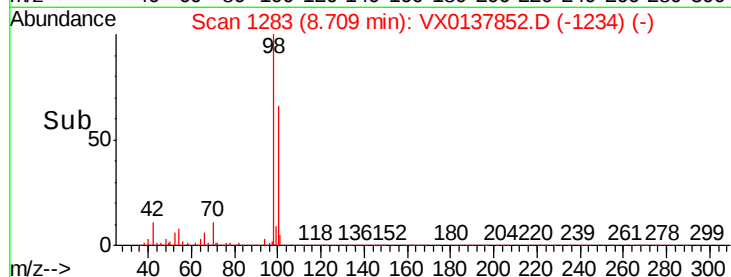
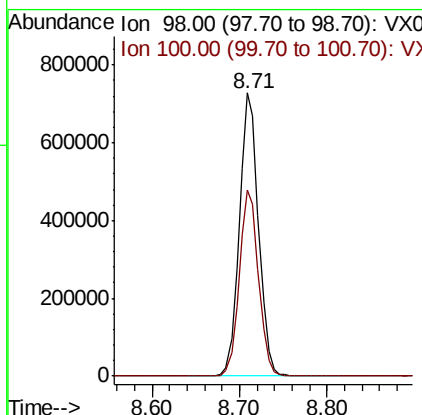
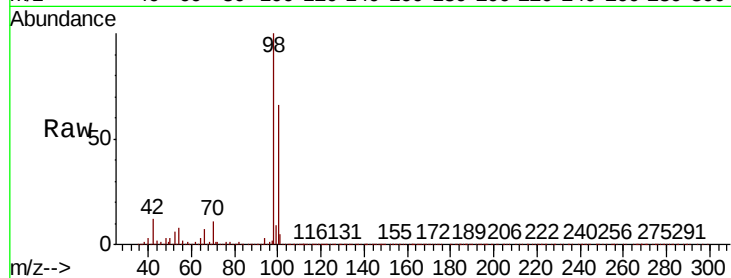




#50
Toluene-d8
Concen: 48.977 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

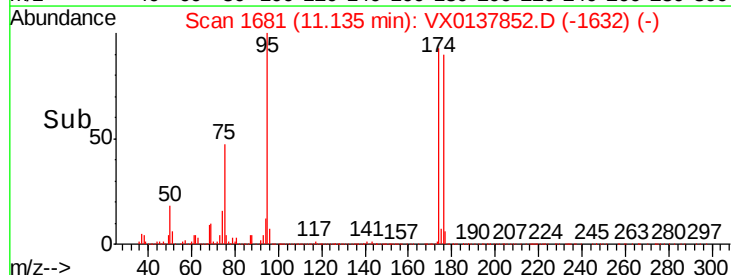
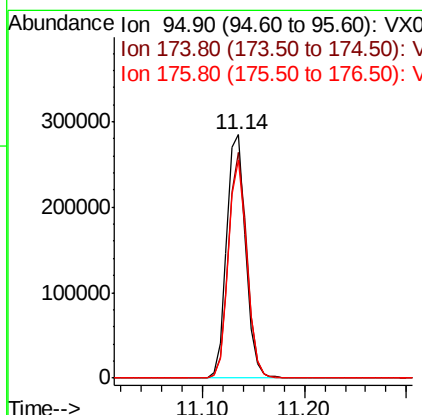
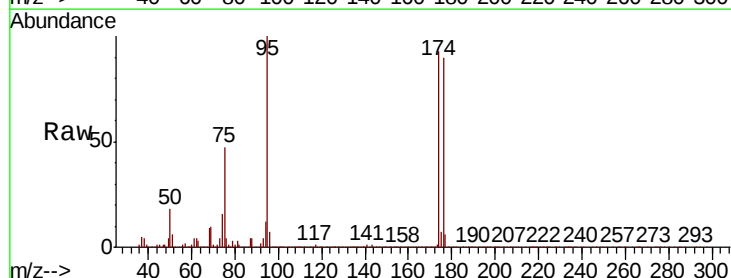
Instrument :
MSVOA_X
ClientSampleId :

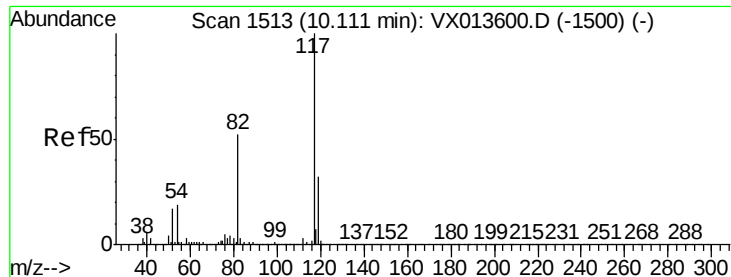
Tot Ion: 98 Resp: 1110865
Ion Ratio Lower Upper
98 100
100 65.7 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 44.742 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Tgt Ion: 95 Resp: 365939
Ion Ratio Lower Upper
95 100
174 89.8 0.0 180.0
176 87.3 0.0 173.6

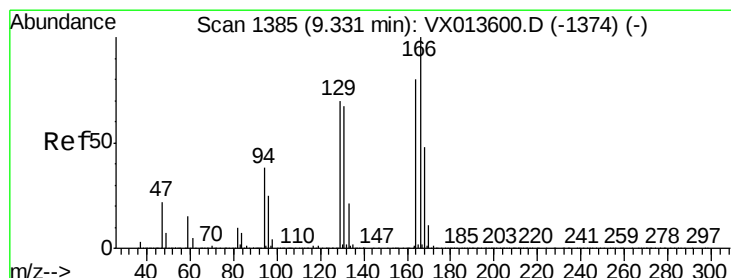
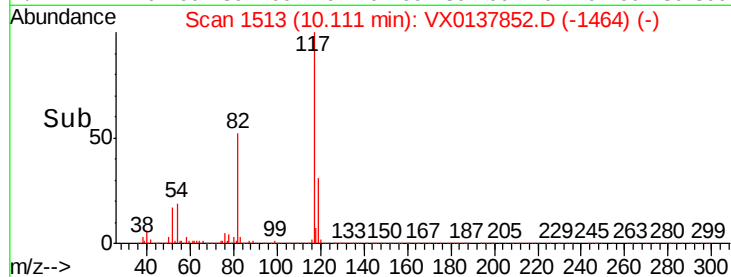
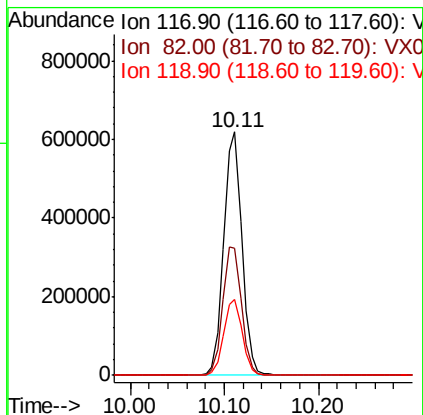
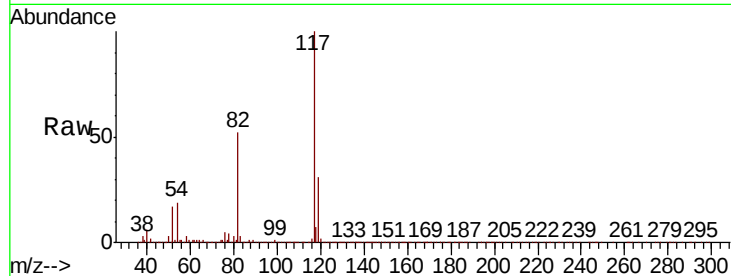




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

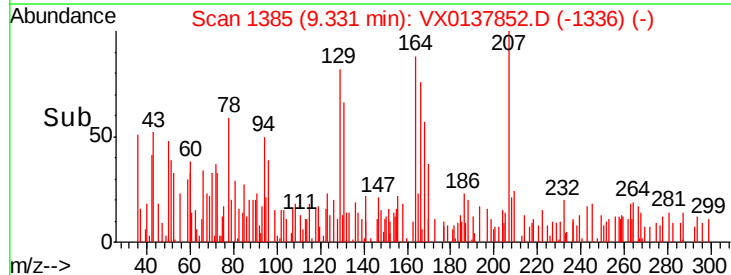
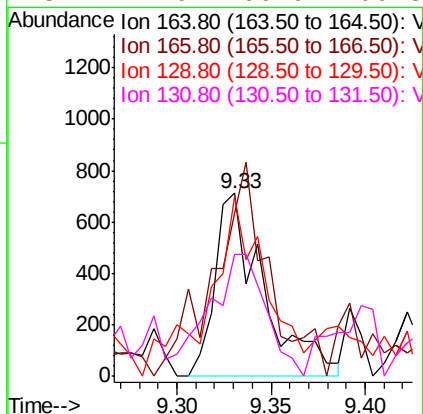
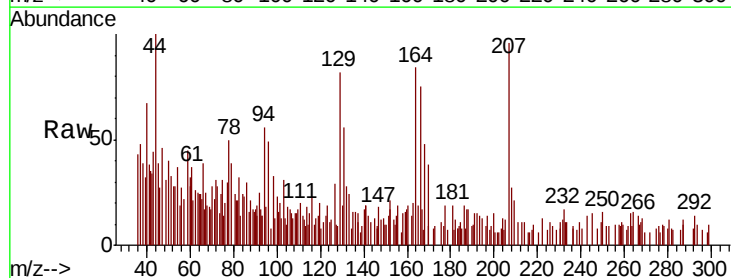
Instrument :
MSVOA_X
ClientSampleId :

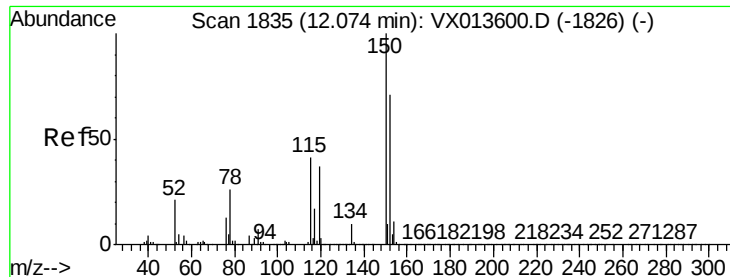
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	41.8	62.8
119	31.4	25.8	38.8



#64
Tetrachloroethene
Concen: 0.205 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	61.7	99.7	149.5#
129	75.5	70.1	105.1
131	44.9	66.9	100.3#



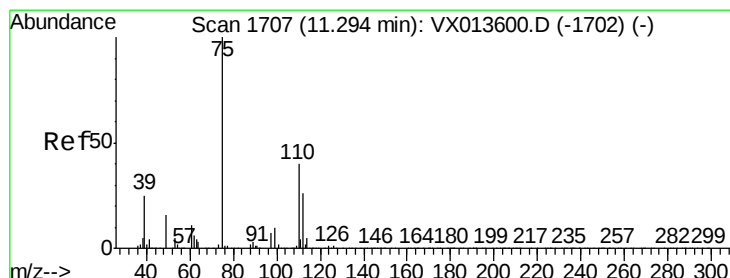
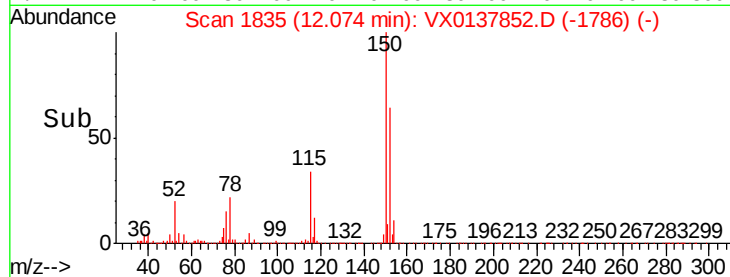
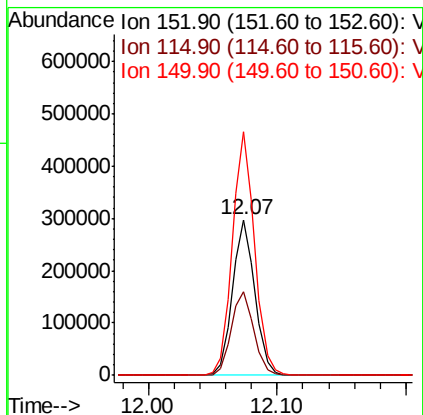
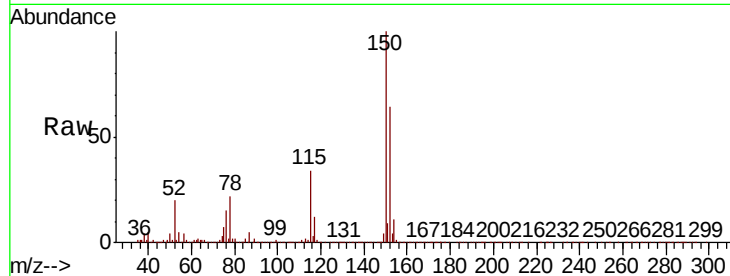


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Instrument :
MSVOA_X
ClientSampleId :

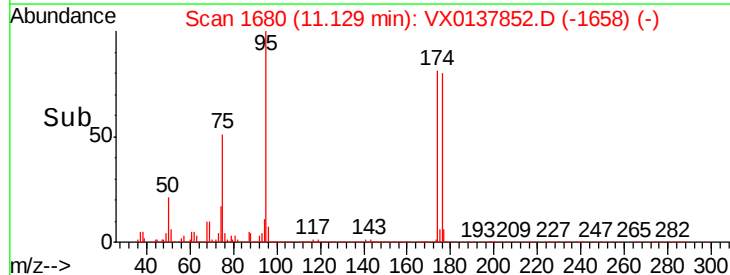
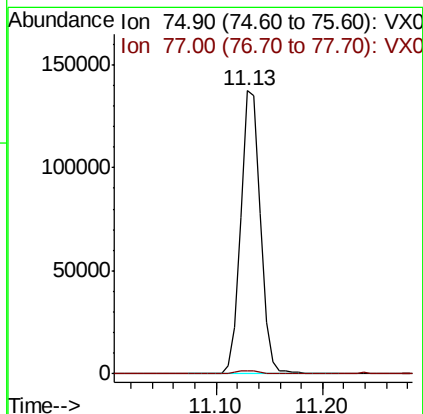
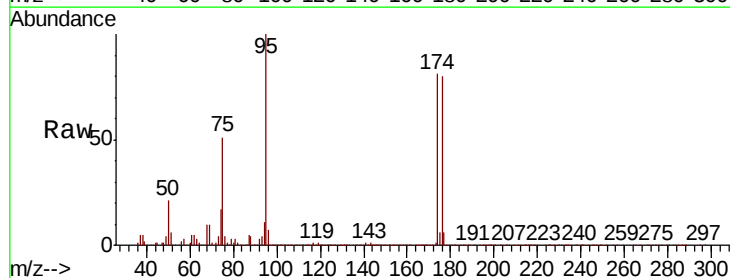
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.7	38.4	115.1
150	155.1	0.0	346.8

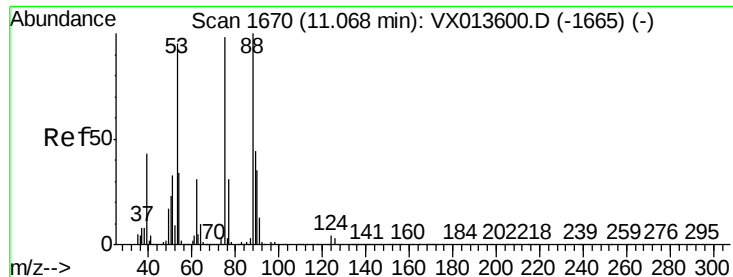


#76

1,2,3-Trichloropropane
Concen: 22.116 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX0137852.D
Acq: 09 Dec 2019 15:23

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.8	19.1	57.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.505 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

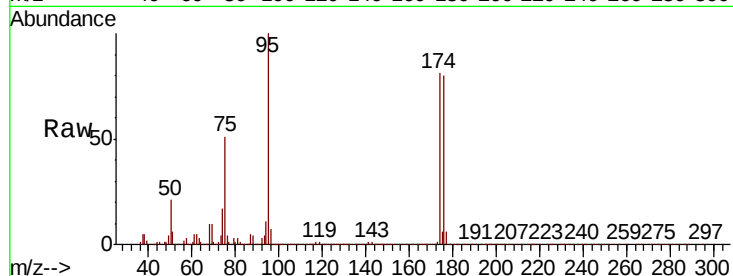
Tot Ion: 75 Resp: 178925

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

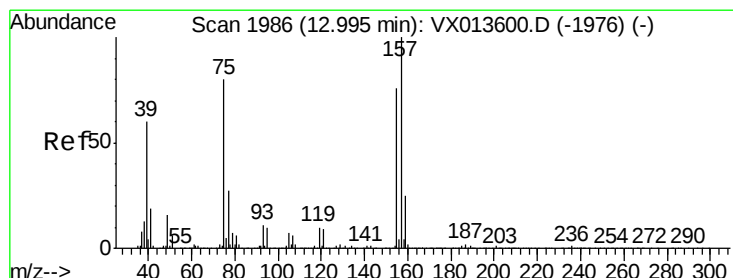
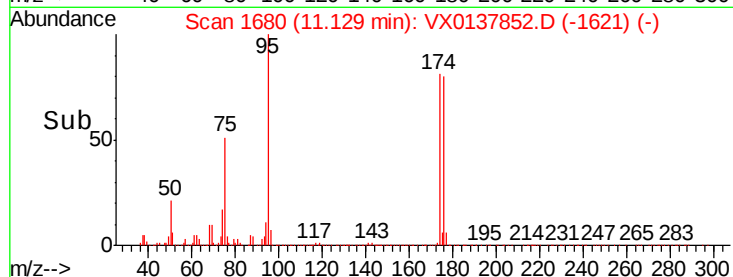
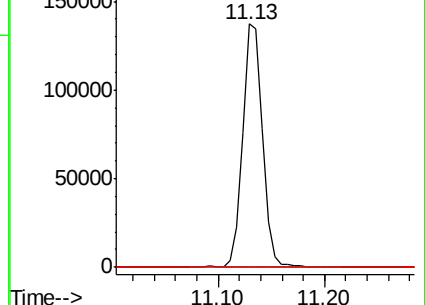
89 0.2 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.291 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VX0137852.D

Acq: 09 Dec 2019 15:23

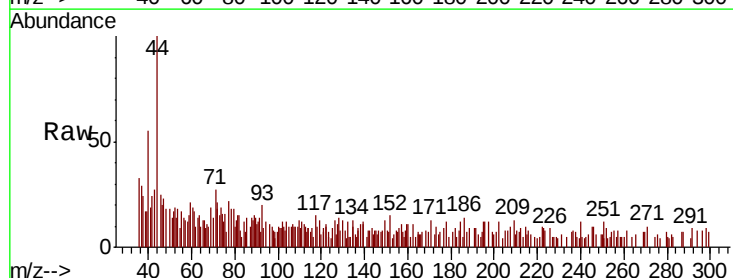
Tgt Ion: 75 Resp: 555

Ion Ratio Lower Upper

75 100

155 22.9 47.6 142.8#

157 76.0 62.1 186.2



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

