

Data File : VX013894.D
Acq On : 10 Dec 2019 13:39
Operator : JC/SP
Sample : K6187-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
RPC-WG

Quant Time: Dec 11 02:23:46 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	534807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	828481	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	738294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	328553	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	307282	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
35) Dibromofluoromethane	5.49	113	250227	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
50) Toluene-d8	8.71	98	981085	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
62) 4-Bromofluorobenzene	11.14	95	322807	44.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.72%	

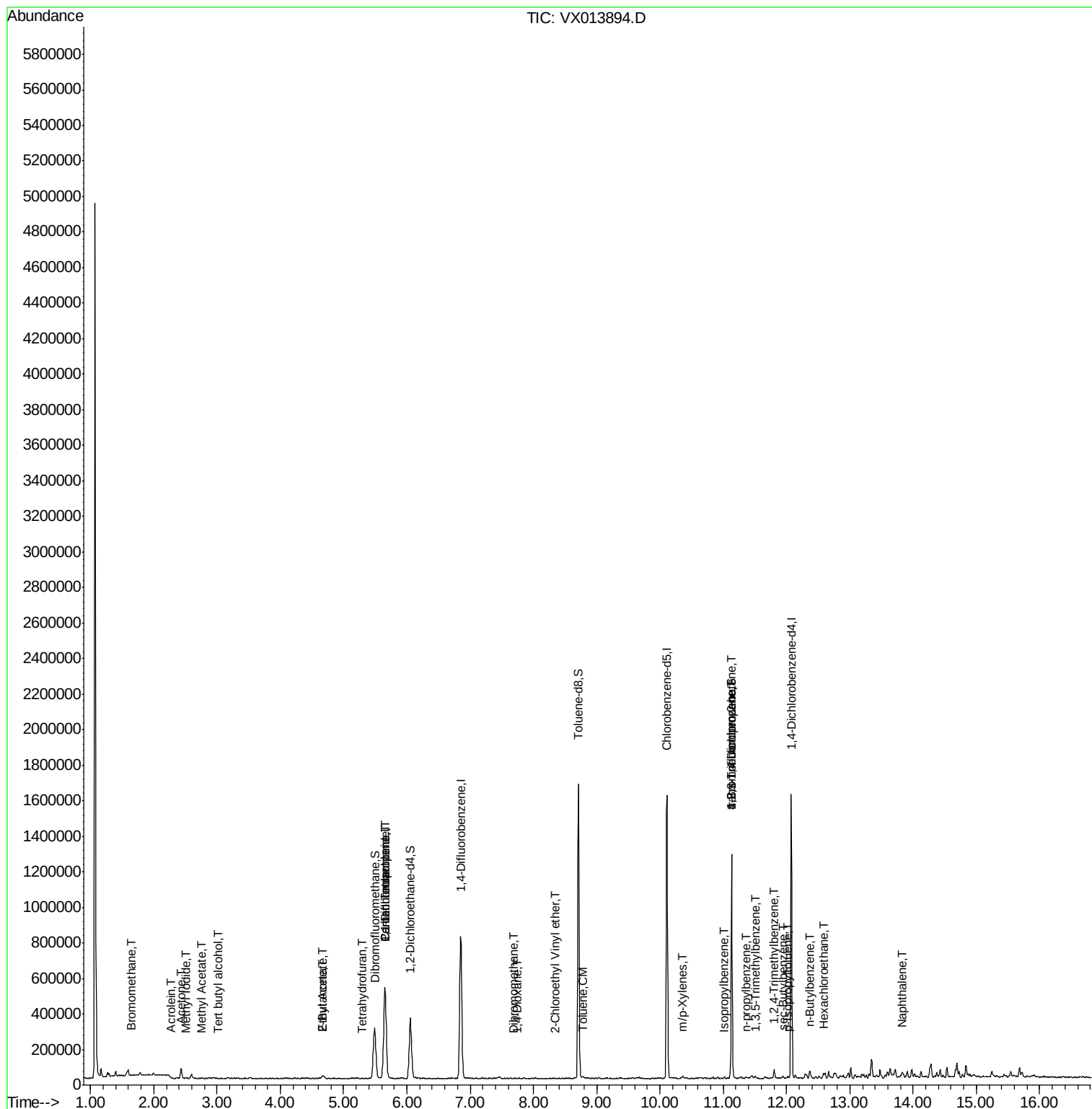
Target Compounds				Qvalue		
5) Bromomethane	1.64	94	1793	0.355	ug/l #	72
10) Methyl Iodide	2.51	142	1743	0.283	ug/l #	55
11) Tert butyl alcohol	3.03	59	1622	1.059	ug/l #	91
13) Acrolein	2.28	56	566	6.543	ug/l #	62
16) Acetone	2.43	43	60673	19.796	ug/l	96
18) Methyl Acetate	2.75	43	1858	0.218	ug/l #	72
25) 2-Butanone	4.67	43	31288	6.869	ug/l	99
29) Tetrahydrofuran	5.30	42	790	0.281	ug/l	96
36) 1,1-Dichloropropene	5.65	75	36138	4.805	ug/l #	50
37) Ethyl Acetate	4.67	43	30075	3.565	ug/l #	70
38) Carbon Tetrachloride	5.65	117	47094	6.791	ug/l #	15
46) Dibromomethane	7.67	93	1008	0.259	ug/l #	29
49) 1,4-Dioxane	7.74	88	244	1.615	ug/l #	24
52) Toluene	8.79	92	6011	0.422	ug/l	77
58) 2-Chloroethyl Vinyl ether	8.34	63	1286	0.356	ug/l #	64
68) m/p-Xylenes	10.36	106	3914	0.388	ug/l	90
73) Isopropylbenzene	11.01	105	5325	0.231	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	159924	21.641	ug/l #	39
78) n-propylbenzene	11.35	91	8807	0.342	ug/l	92
80) 1,3,5-Trimethylbenzene	11.50	105	5030	0.266	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	159924	59.207	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	21267	1.109	ug/l	97
85) sec-Butylbenzene	11.94	105	8547	0.390	ug/l	78
86) p-Isopropyltoluene	12.03	119	4814	0.236	ug/l	84
89) n-Butylbenzene	12.38	91	7064	0.406	ug/l #	39
90) Hexachloroethane	12.58	117	1297	0.352	ug/l #	30
95) Naphthalene	13.83	128	20335	0.914	ug/l #	85

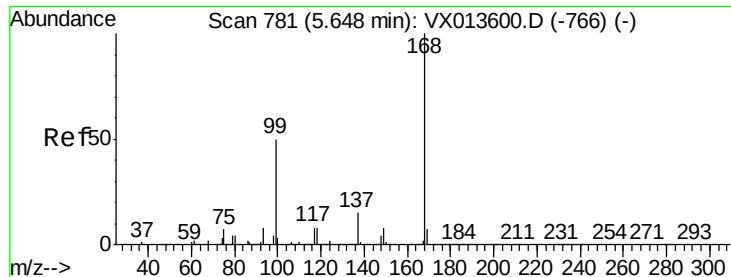
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

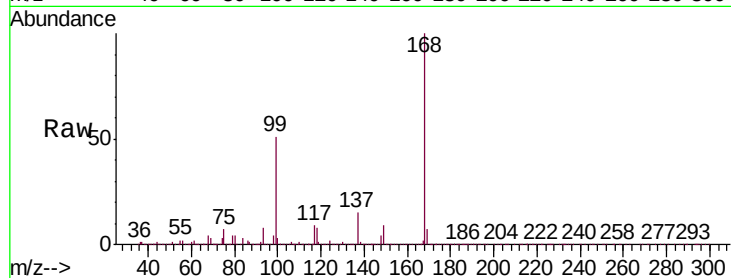
RPC-WG

Tgt Ion:168 Resp: 534807

Ion Ratio Lower Upper

168 100

99 50.4 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

200000

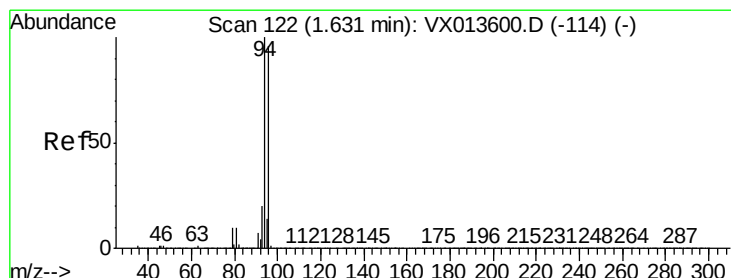
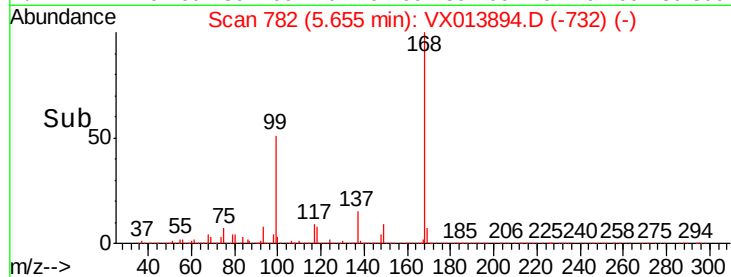
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.355 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013894.D

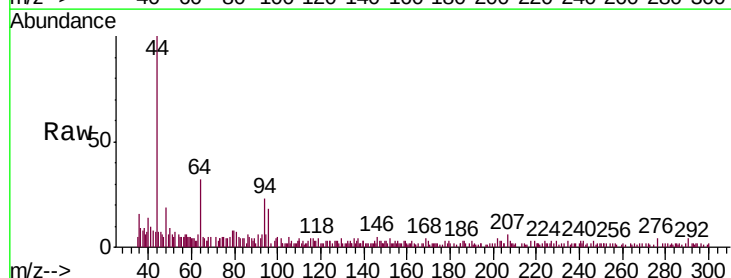
Acq: 10 Dec 2019 13:39

Tgt Ion: 94 Resp: 1793

Ion Ratio Lower Upper

94 100

96 68.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

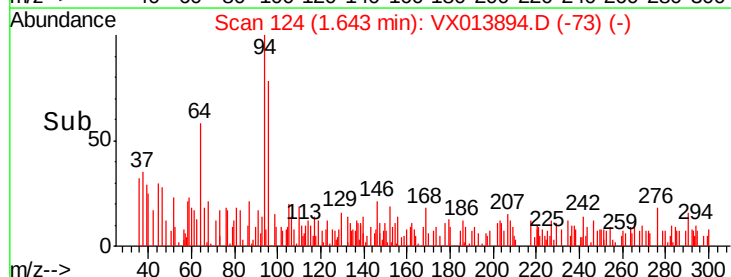
1.64

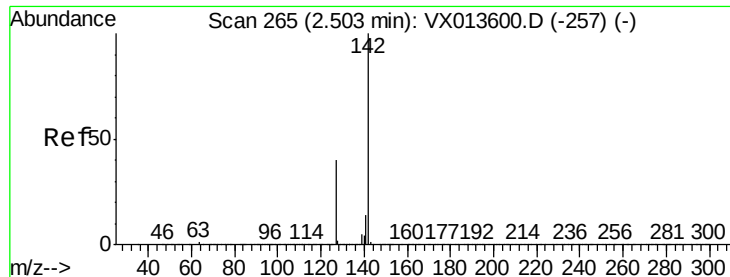
1000

500

0

Time-->

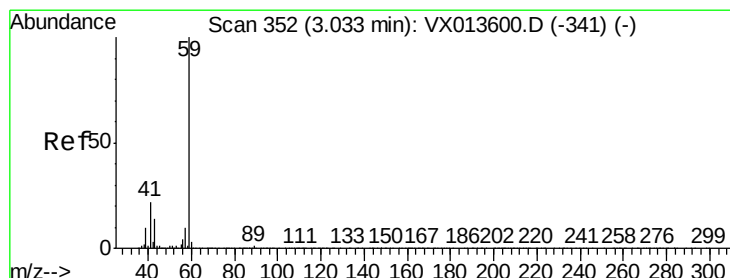
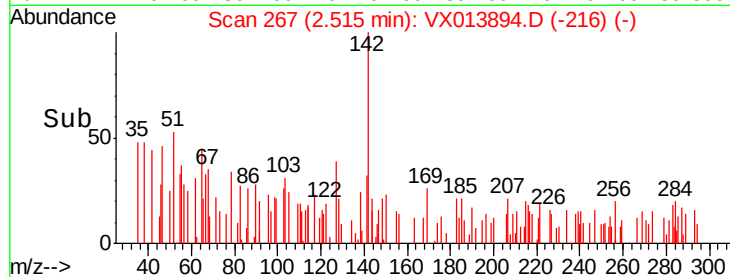
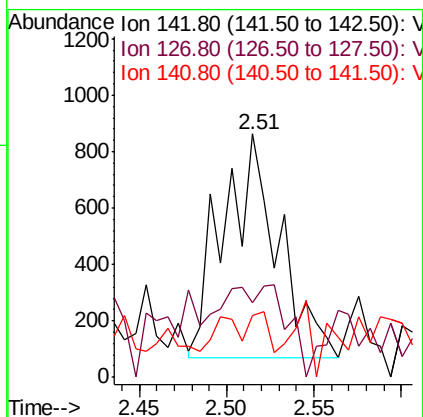
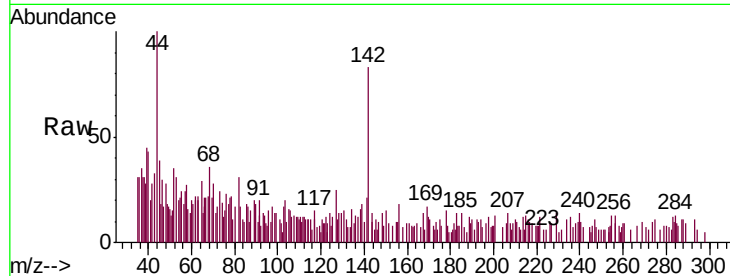




#10
Methyl Iodide
Concen: 0.283 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

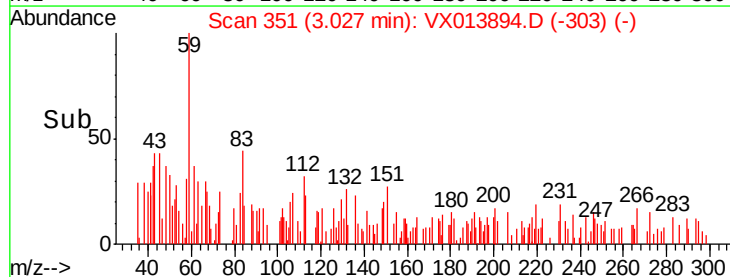
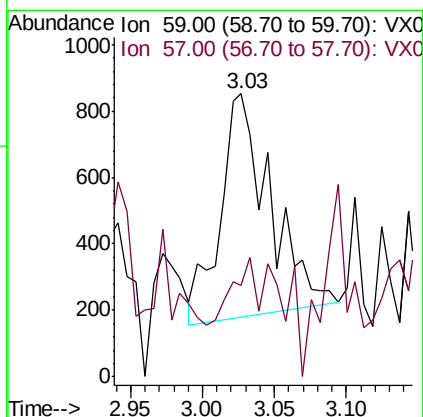
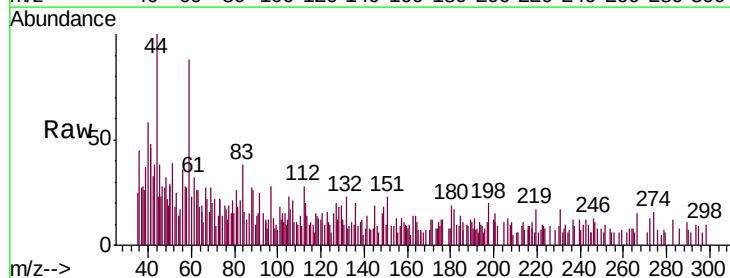
Instrument :
MSVOA_X
ClientSampleId :
RPC-WG

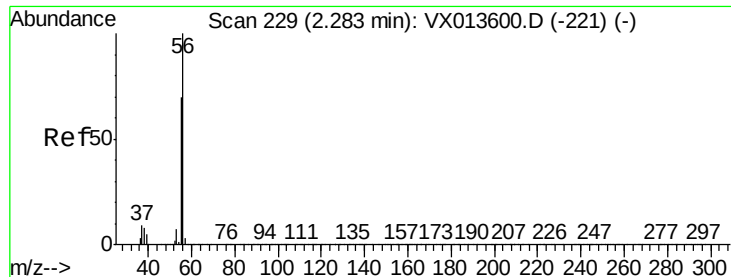
Tgt Ion: 142 Resp: 1743
Ion Ratio Lower Upper
142 100
127 5.2 31.0 46.4#
141 6.4 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.059 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

Tgt Ion: 59 Resp: 1622
Ion Ratio Lower Upper
59 100
57 13.1 7.8 11.6#





#13

Acrolein

Concen: 6.543 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

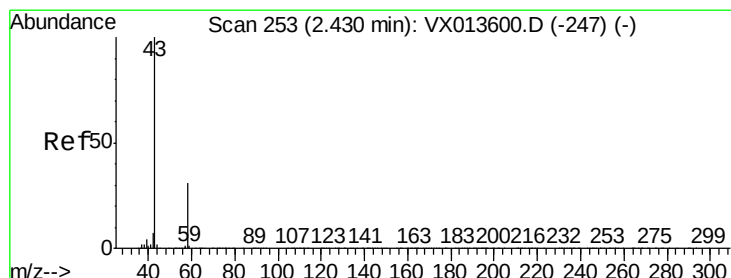
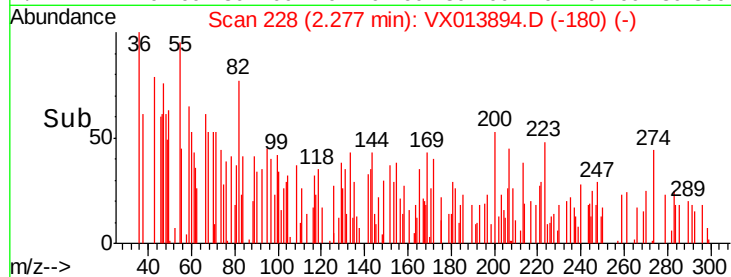
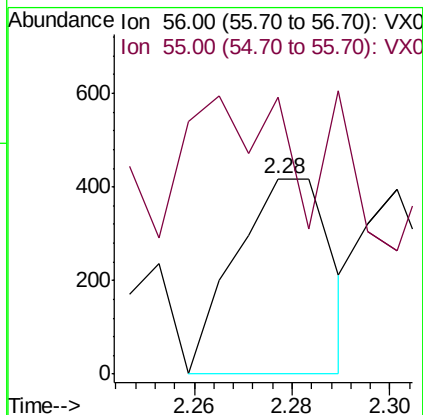
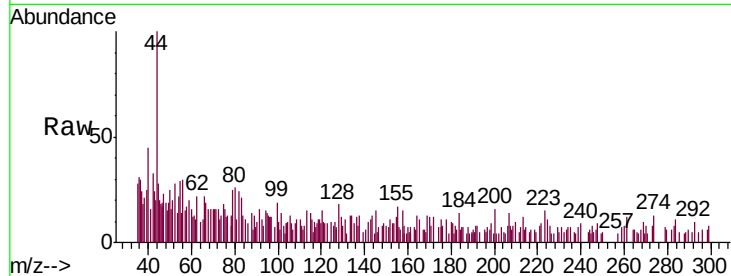
RPC-WG

Tgt Ion: 56 Resp: 566

Ion Ratio Lower Upper

56 100

55 101.6 56.2 84.4#



#16

Acetone

Concen: 19.796 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013894.D

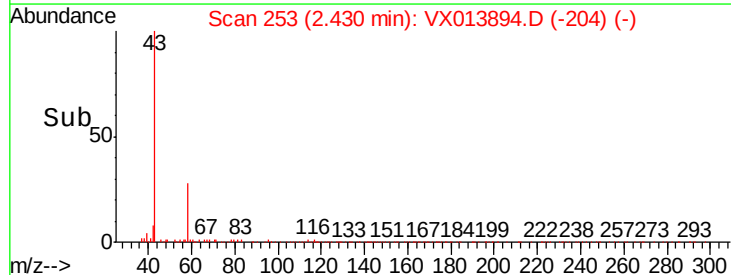
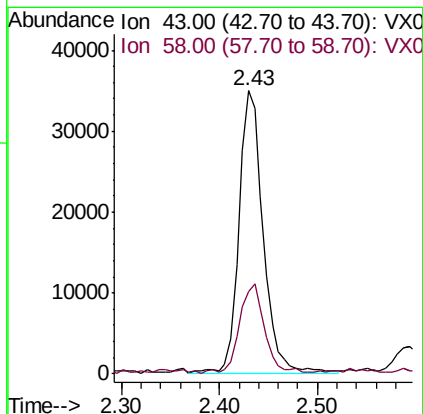
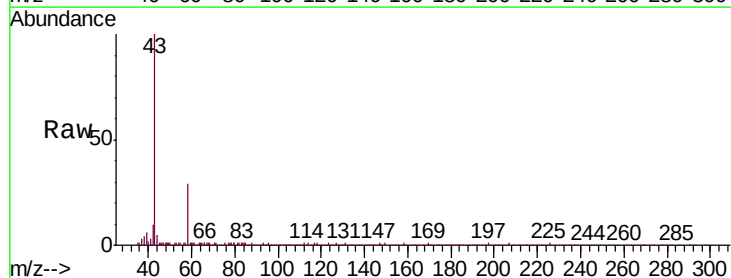
Acq: 10 Dec 2019 13:39

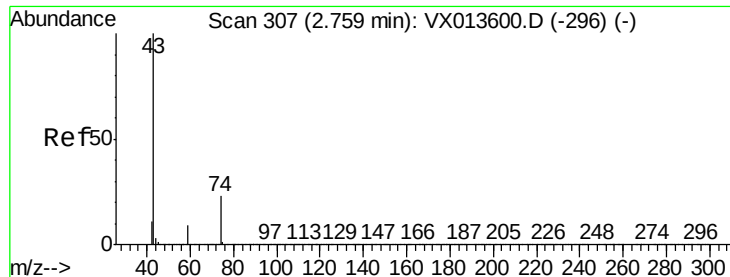
Tgt Ion: 43 Resp: 60673

Ion Ratio Lower Upper

43 100

58 28.3 24.6 36.8

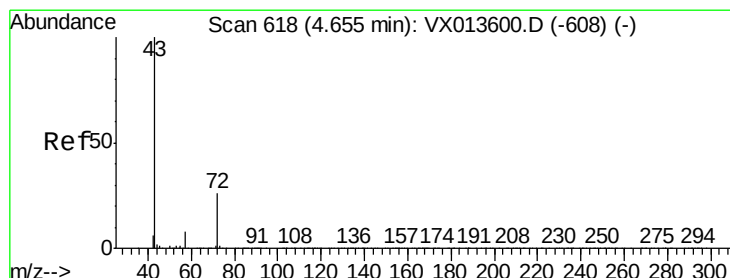
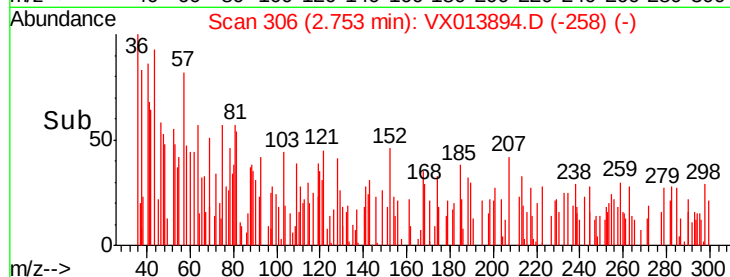
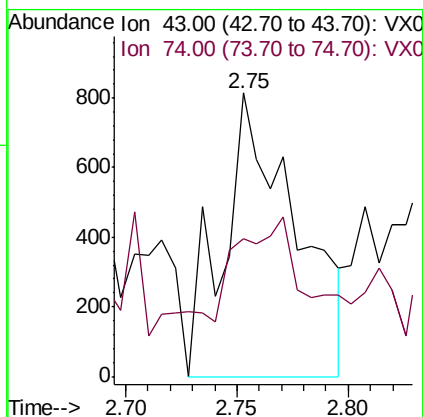
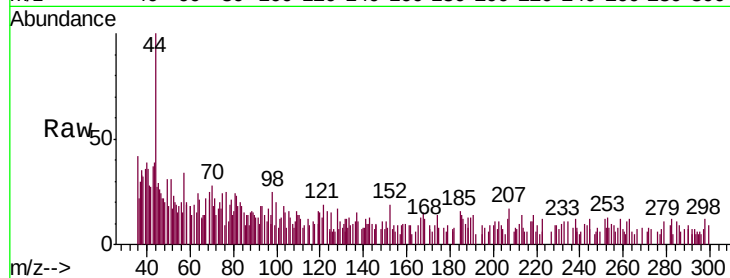




#18
Methyl Acetate
Concen: 0.218 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.01 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

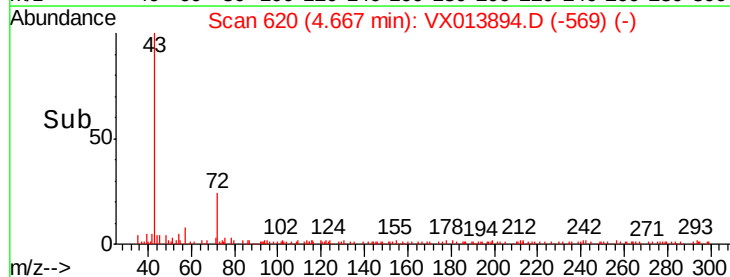
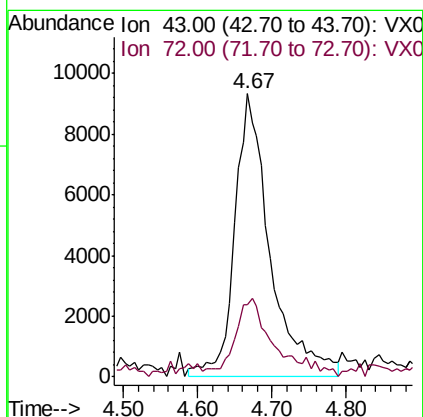
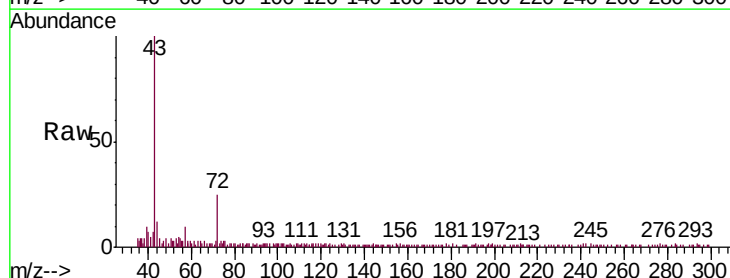
Instrument :
MSVOA_X
ClientSampled :
RPC-WG

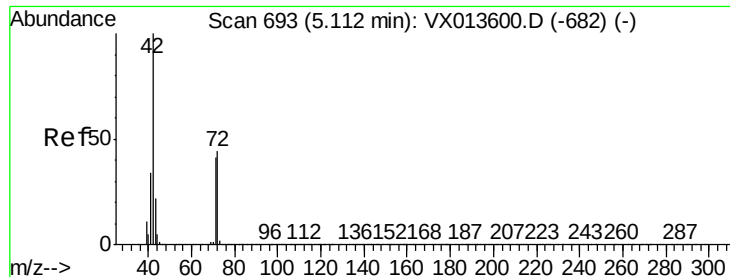
Tgt Ion: 43 Resp: 1858
Ion Ratio Lower Upper
43 100
74 38.2 19.5 29.3#



#25
2-Butanone
Concen: 6.869 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

Tgt Ion: 43 Resp: 31288
Ion Ratio Lower Upper
43 100
72 26.1 20.6 31.0





#29

Tetrahydrofuran

Concen: 0.281 ug/l

RT: 5.30 min Scan# 724

Delta R.T. 0.19 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

RPC-WG

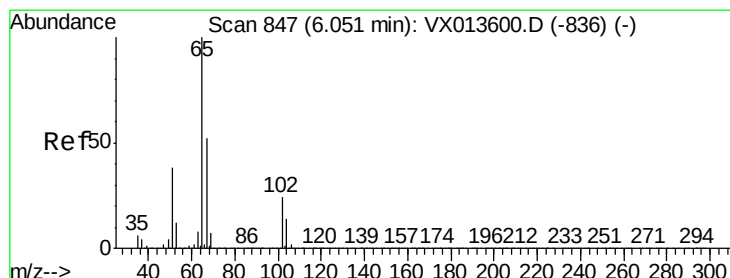
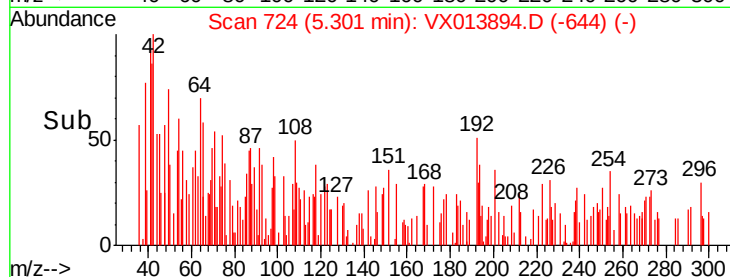
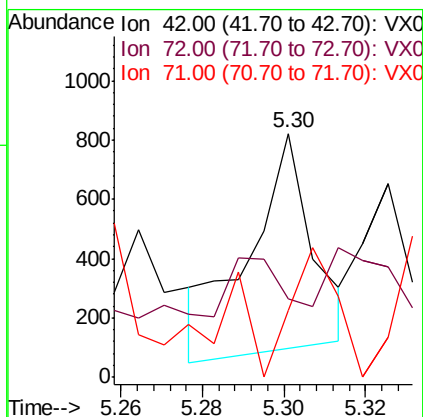
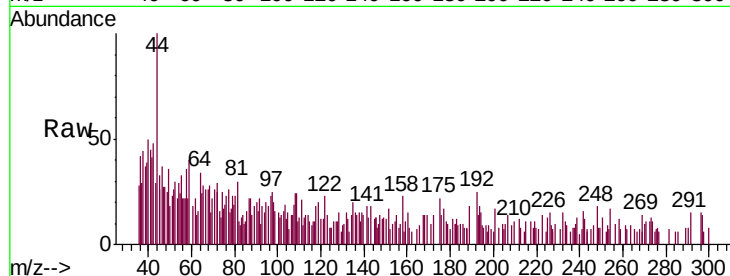
Tgt Ion: 42 Resp: 790

Ion Ratio Lower Upper

42 100

72 48.1 36.3 54.5

71 43.4 33.2 49.8



#33

1,2-Dichloroethane-d4

Concen: 49.499 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013894.D

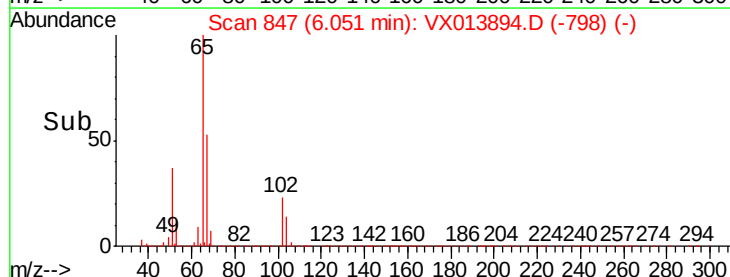
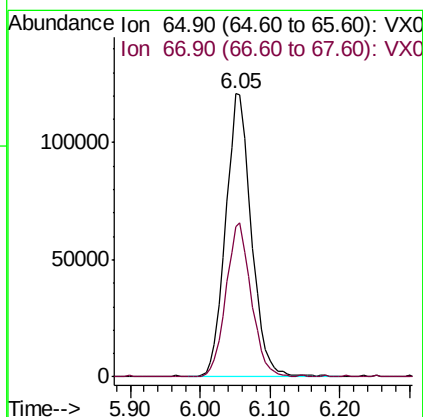
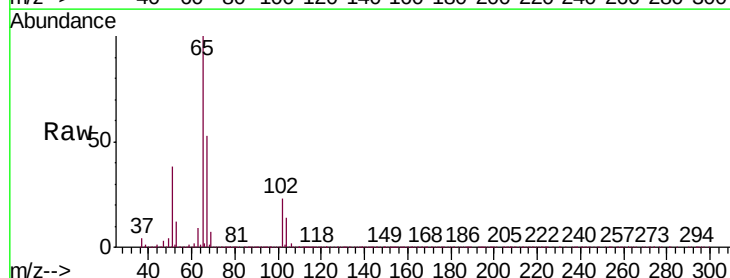
Acq: 10 Dec 2019 13:39

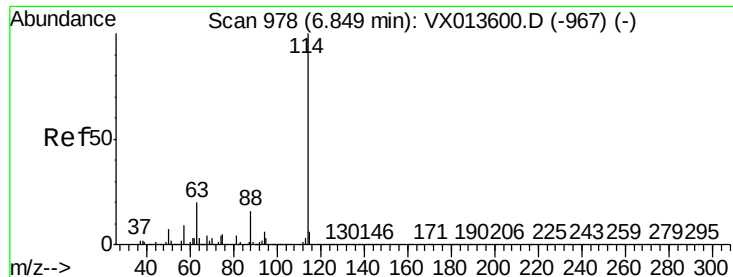
Tgt Ion: 65 Resp: 307282

Ion Ratio Lower Upper

65 100

67 53.7 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: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

RPC-WG

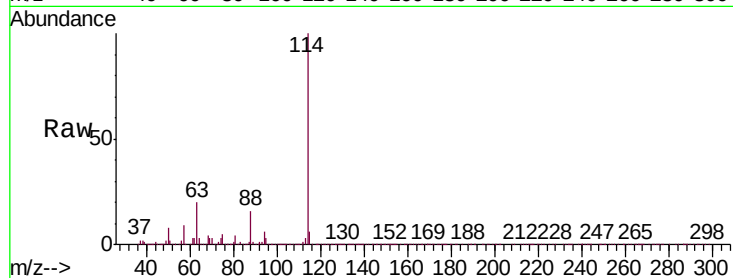
Tgt Ion:114 Resp: 828481

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

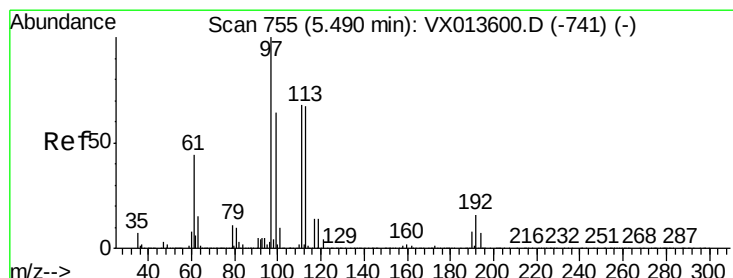
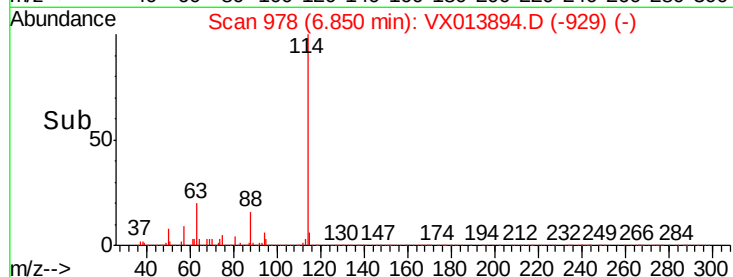
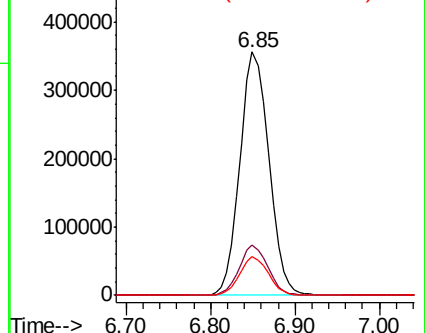
88 15.9 0.0 31.4



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: 48.856 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

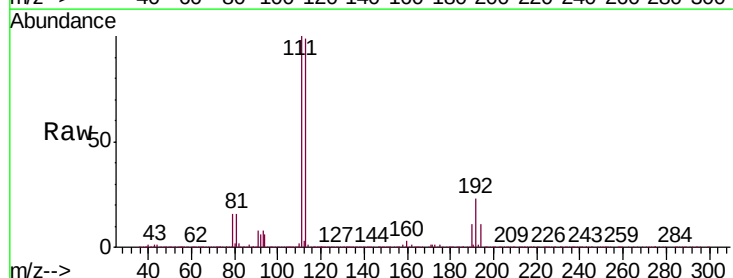
Tgt Ion:113 Resp: 250227

Ion Ratio Lower Upper

113 100

111 102.3 83.6 125.4

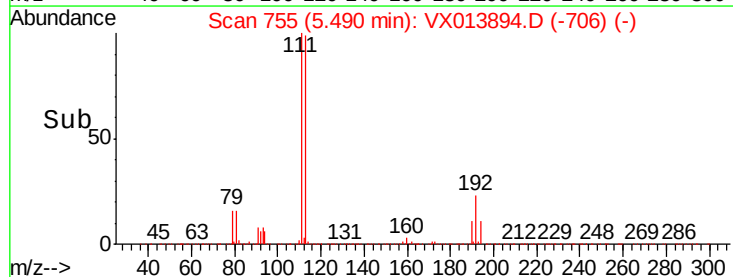
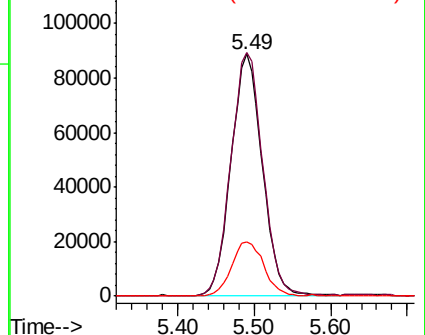
192 23.4 19.2 28.8

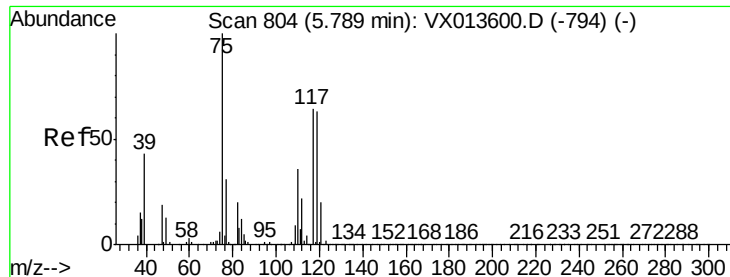


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

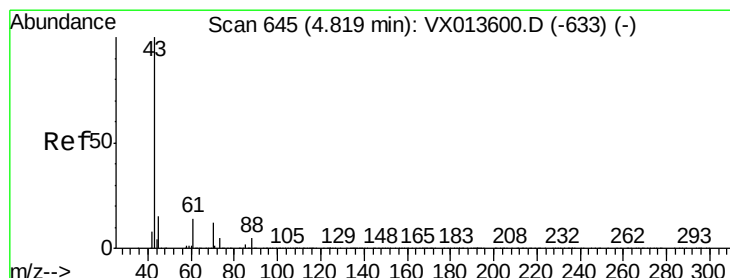
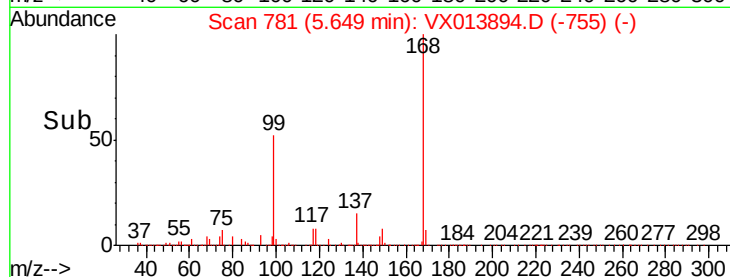
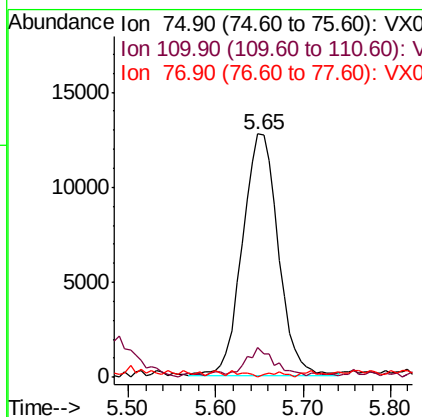
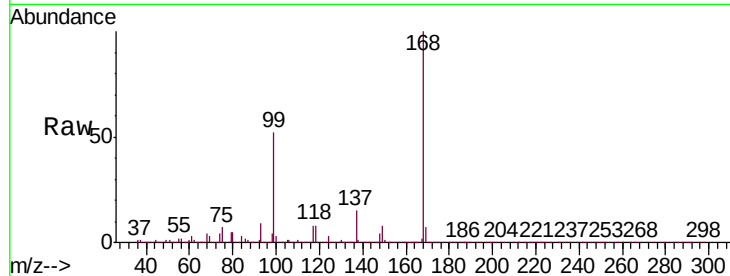




#36
 1,1-Dichloropropene
 Concen: 4.805 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013894.D
 Acq: 10 Dec 2019 13:39

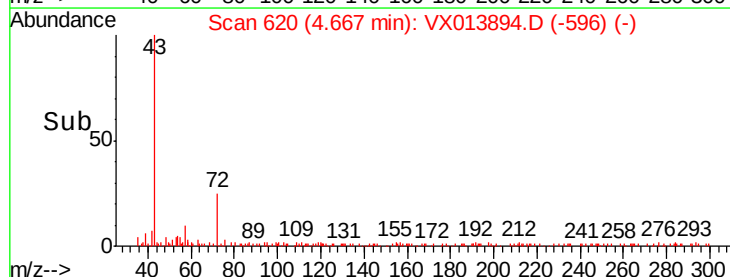
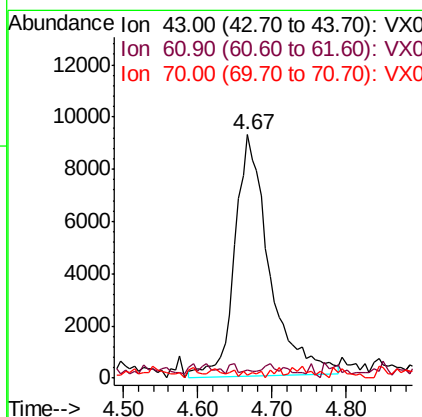
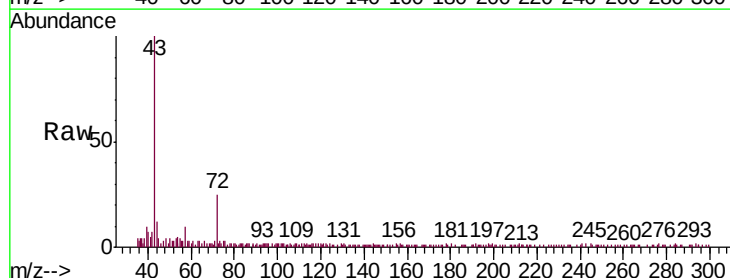
Instrument :
 MSVOA_X
 ClientSampleId :
 RPC-WG

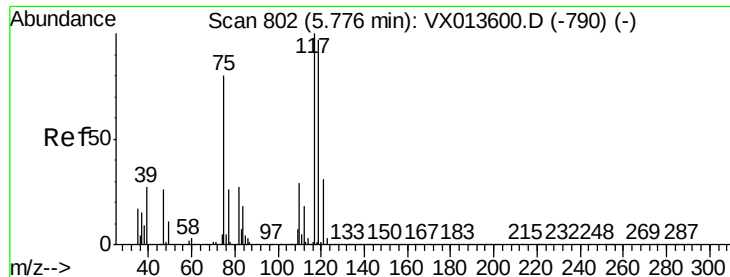
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.1	54.1#
77	0.0	24.5	36.7#



#37
 Ethyl Acetate
 Concen: 3.565 ug/l
 RT: 4.67 min Scan# 620
 Delta R.T. -0.15 min
 Lab File: VX013894.D
 Acq: 10 Dec 2019 13:39

Tgt Ion	Ratio	Lower	Upper
43	100		
61	1.0	11.0	16.4#
70	0.5	8.6	12.8#





#38

Carbon Tetrachloride

Concen: 6.791 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

RPC-WG

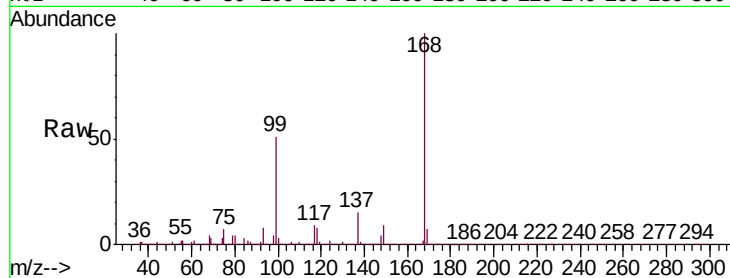
Tgt Ion: 117 Resp: 47094

Ion Ratio Lower Upper

117 100

119 4.4 77.5 116.3#

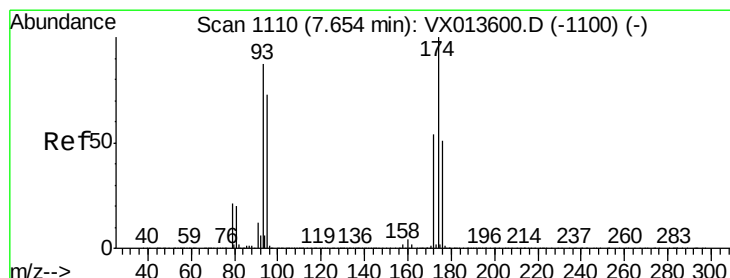
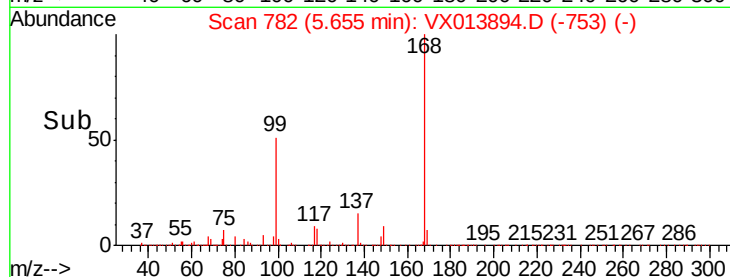
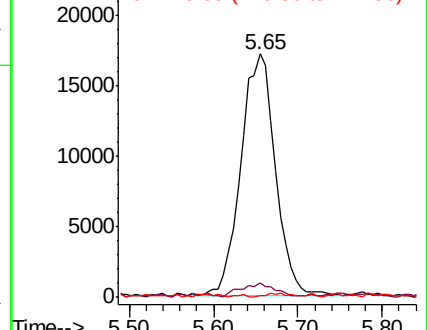
121 0.0 25.0 37.6#



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



#46

Dibromomethane

Concen: 0.259 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

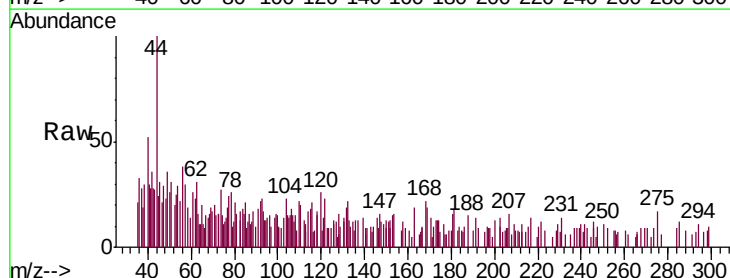
Tgt Ion: 93 Resp: 1008

Ion Ratio Lower Upper

93 100

95 41.8 66.2 99.2#

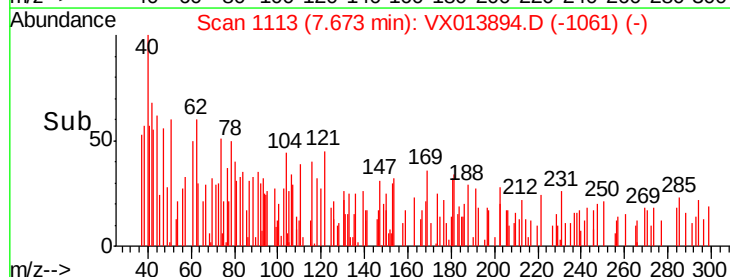
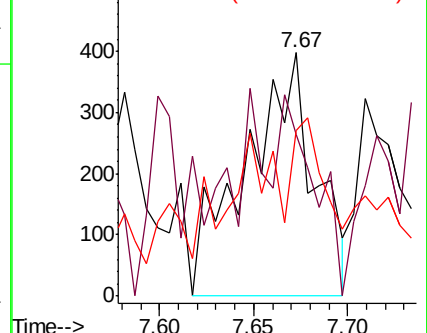
174 18.8 93.4 140.0#

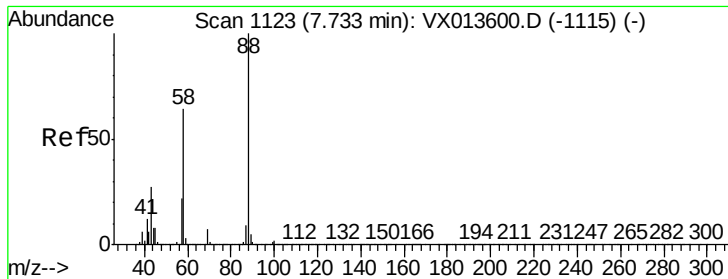


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V

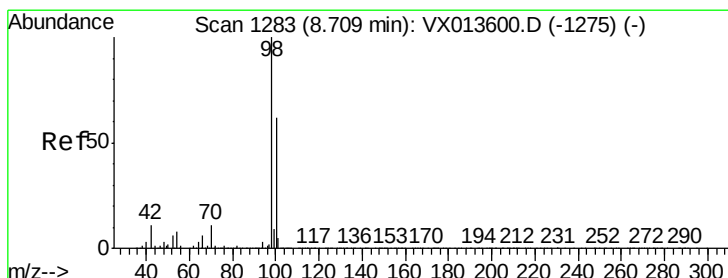
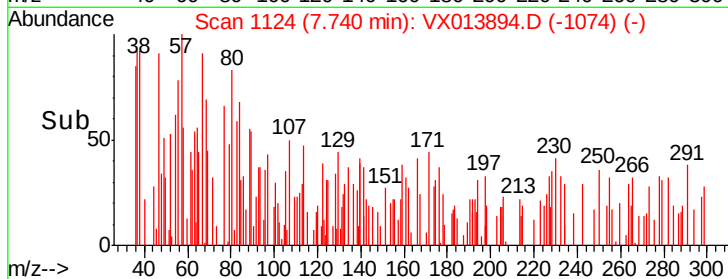
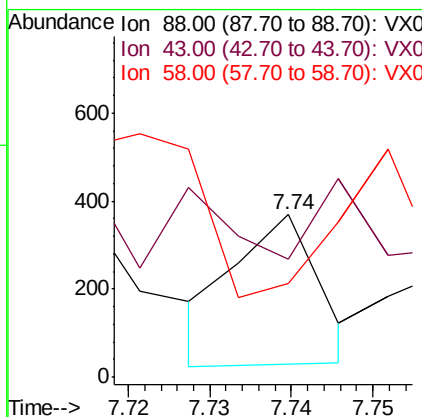
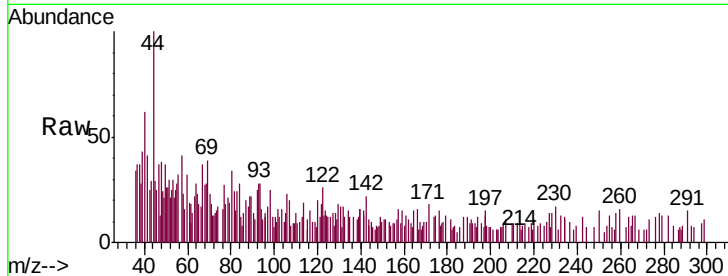




#49
1,4-Dioxane
Concen: 1.615 ug/l
RT: 7.74 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

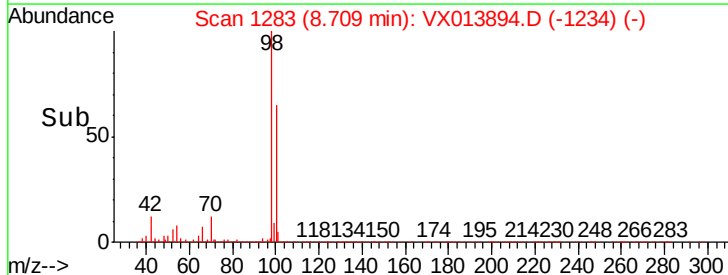
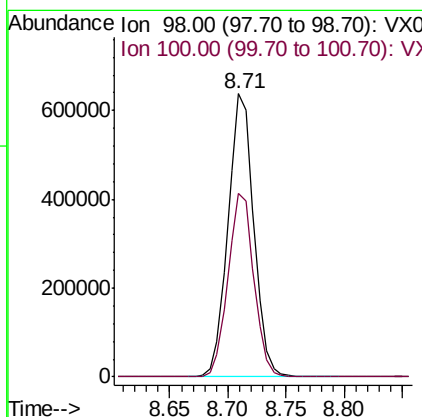
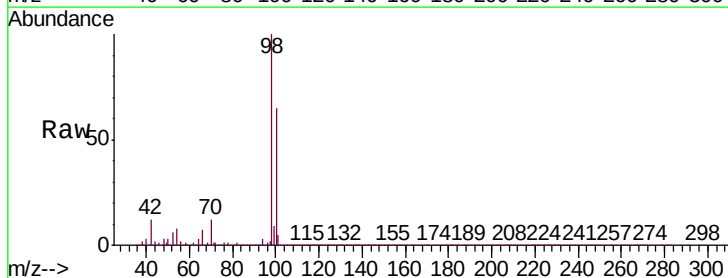
Instrument :
MSVOA_X
ClientSampled :
RPC-WG

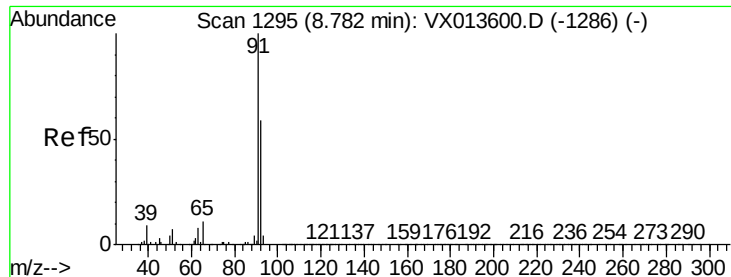
Tgt Ion: 88 Resp: 244
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.6#
58 0.0 54.6 82.0#



#50
Toluene-d8
Concen: 49.165 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

Tgt Ion: 98 Resp: 981085
Ion Ratio Lower Upper
98 100
100 65.3 53.1 79.7





#52

Toluene

Concen: 0.422 ug/l

RT: 8.79 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

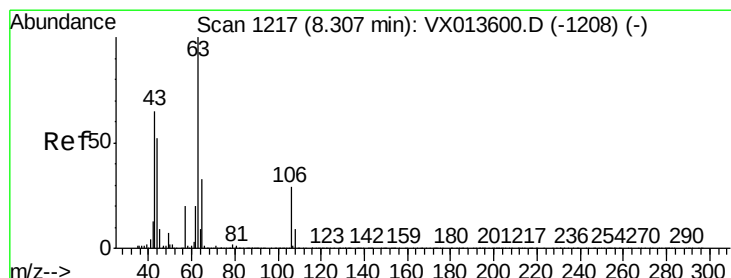
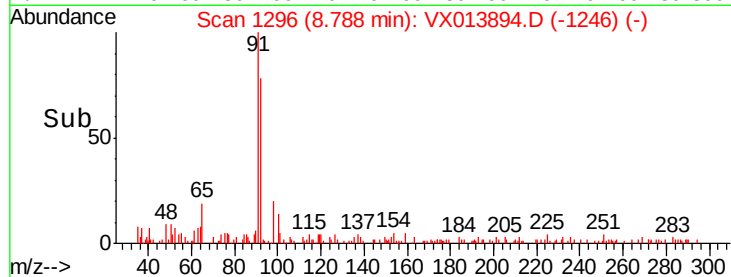
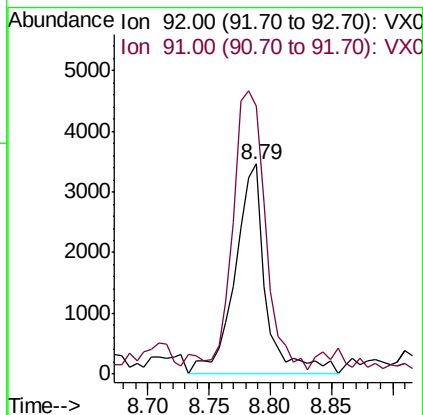
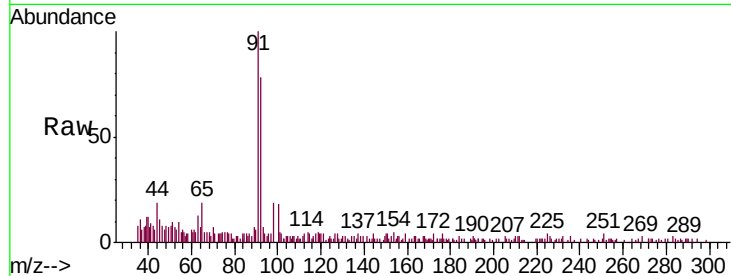
RPC-WG

Tgt Ion: 92 Resp: 6011

Ion Ratio Lower Upper

92 100

91 139.1 136.2 204.2



#58

2-Chloroethyl Vinyl ether

Concen: 0.356 ug/l

RT: 8.34 min Scan# 1223

Delta R.T. 0.04 min

Lab File: VX013894.D

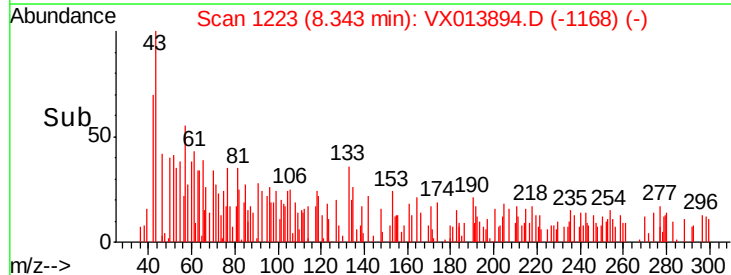
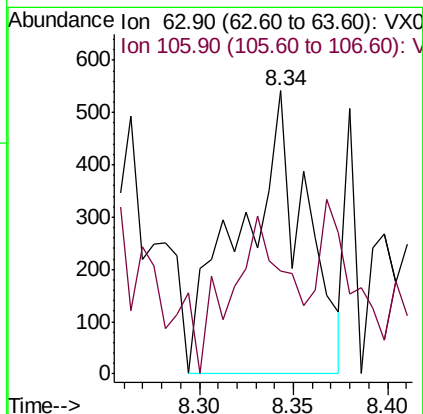
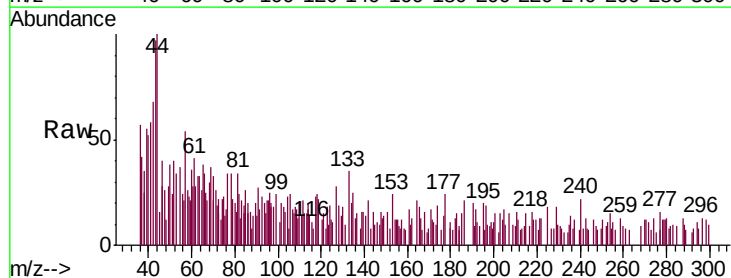
Acq: 10 Dec 2019 13:39

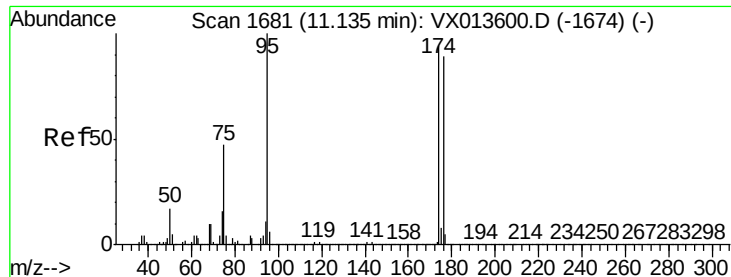
Tgt Ion: 63 Resp: 1286

Ion Ratio Lower Upper

63 100

106 48.4 23.4 35.0#





#62

4-Bromofluorobenzene

Concen: 44.860 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

RPC-WG

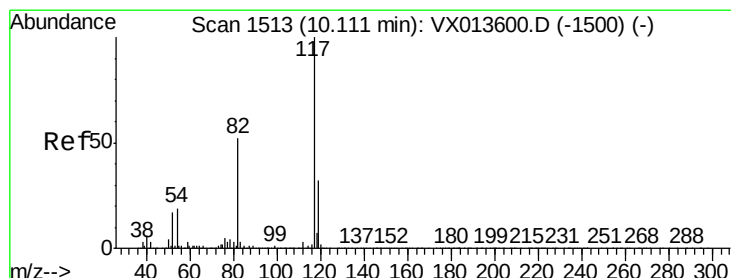
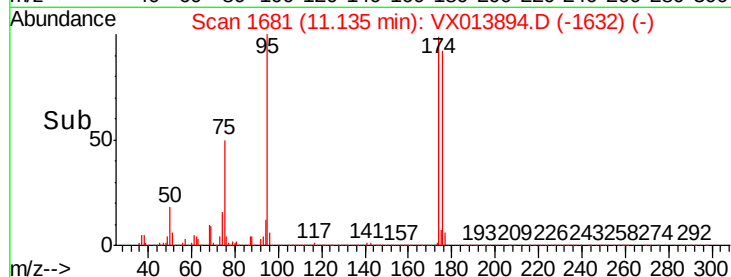
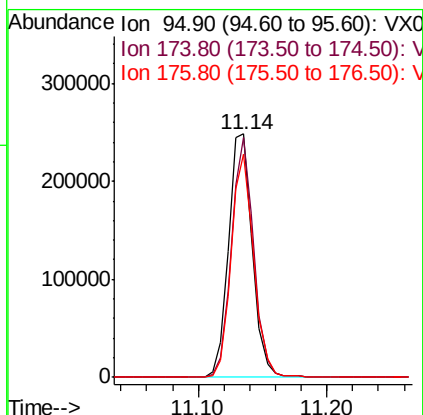
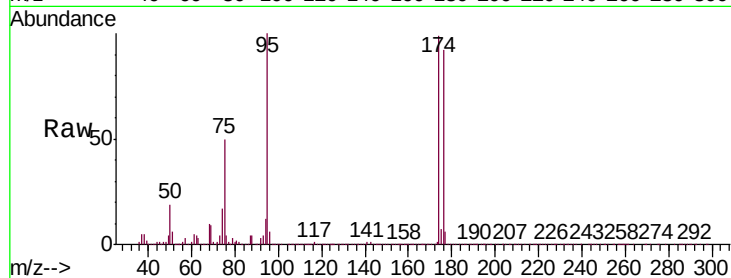
Tgt Ion: 95 Resp: 322807

Ion Ratio Lower Upper

95 100

174 91.8 0.0 180.0

176 86.8 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: VX013894.D

Acq: 10 Dec 2019 13:39

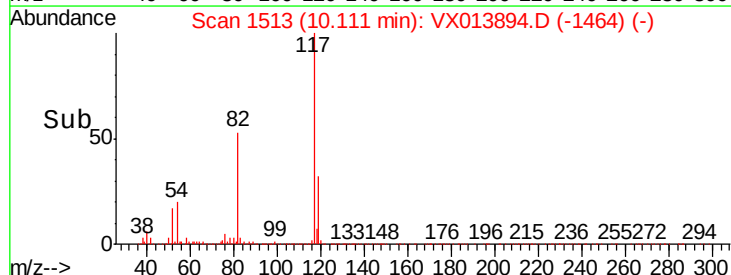
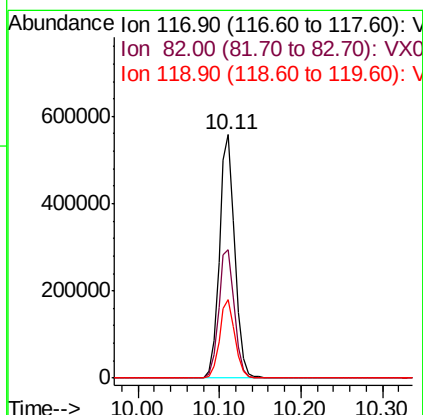
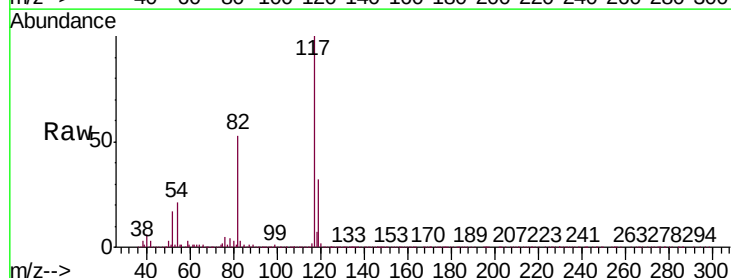
Tgt Ion: 117 Resp: 738294

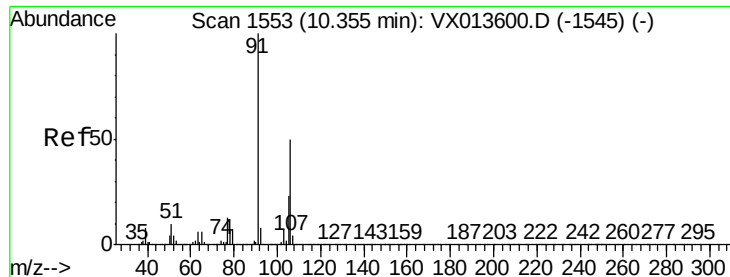
Ion Ratio Lower Upper

117 100

82 52.9 41.8 62.8

119 32.3 25.8 38.8





#68

m/p-Xylenes

Concen: 0.388 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

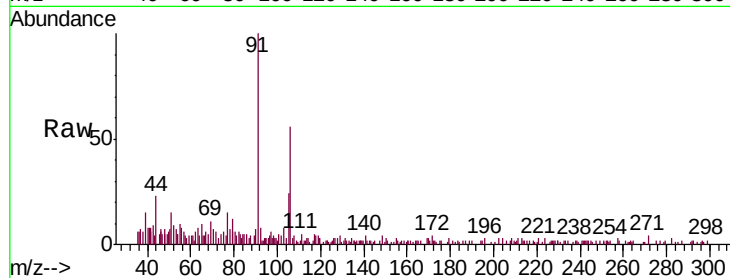
RPC-WG

Tgt Ion:106 Resp: 3914

Ion Ratio Lower Upper

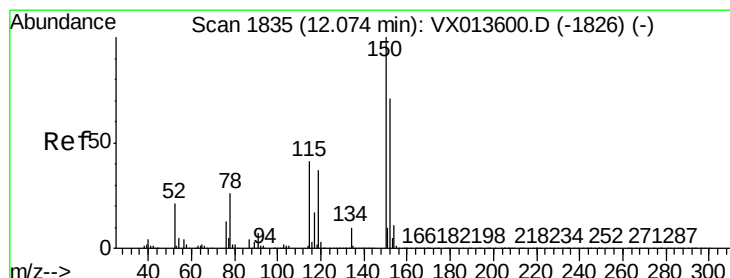
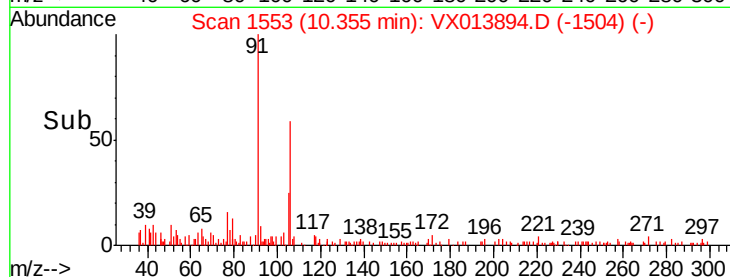
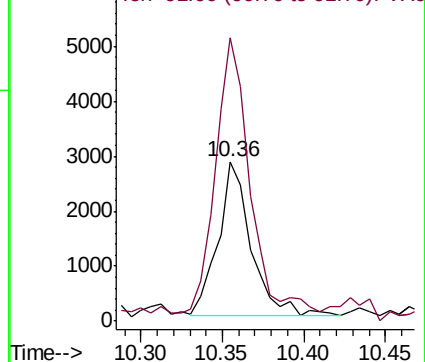
106 100

91 184.1 159.0 238.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

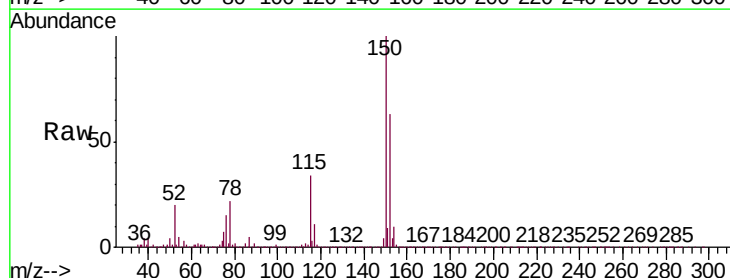
Tgt Ion:152 Resp: 328553

Ion Ratio Lower Upper

152 100

115 55.2 38.4 115.1

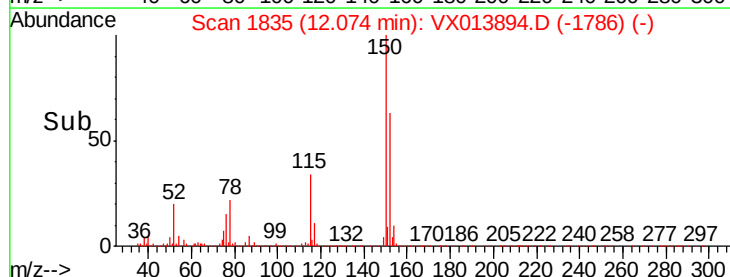
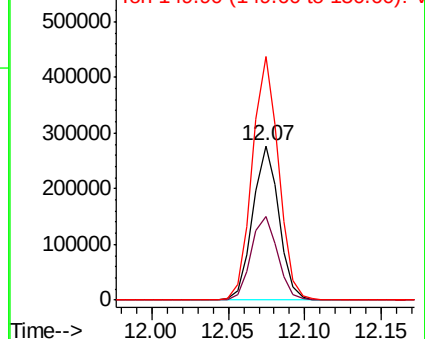
150 159.2 0.0 346.8

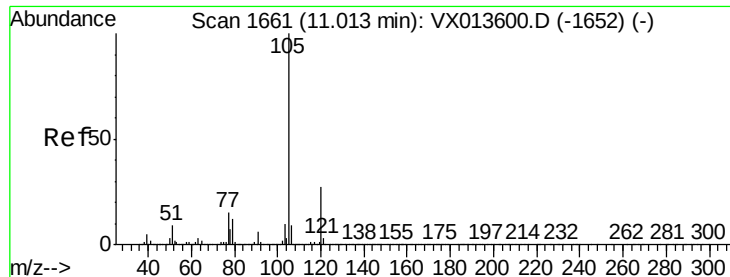


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

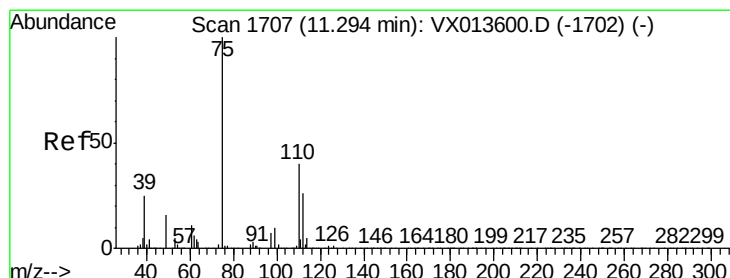
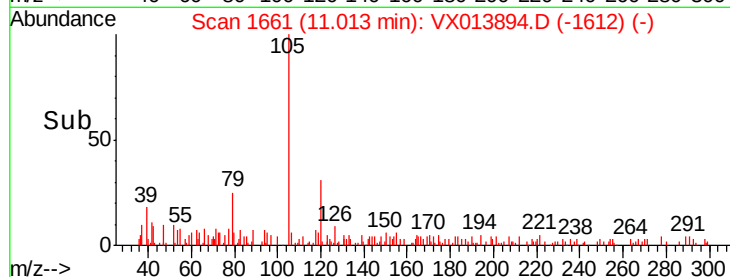
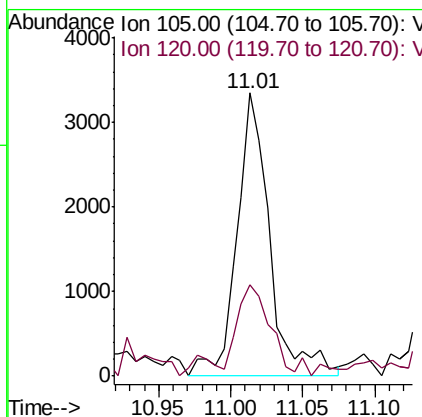
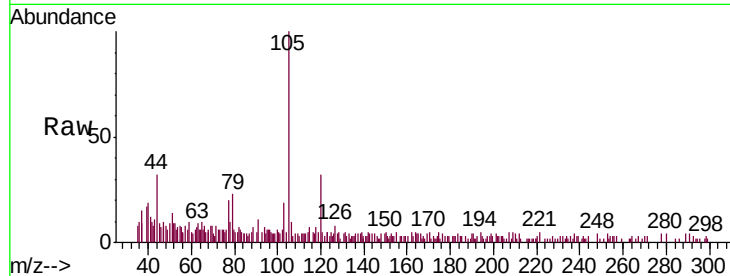




#73
Isopropylbenzene
Concen: 0.231 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

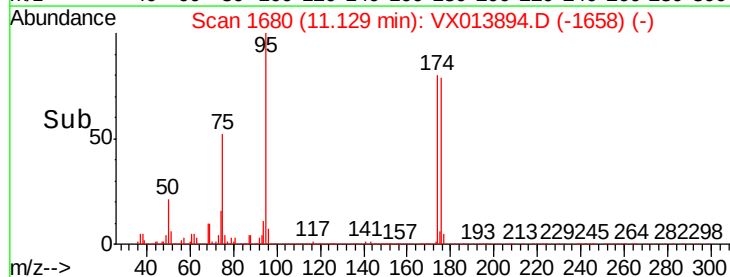
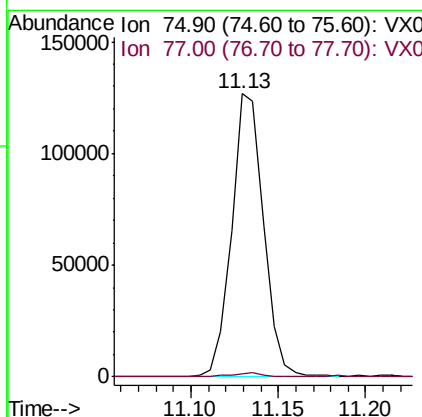
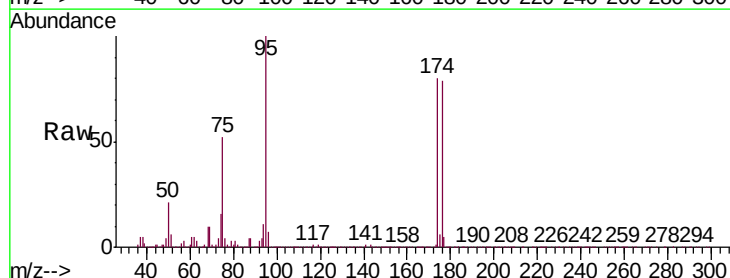
Instrument :
MSVOA_X
ClientSampleId :
RPC-WG

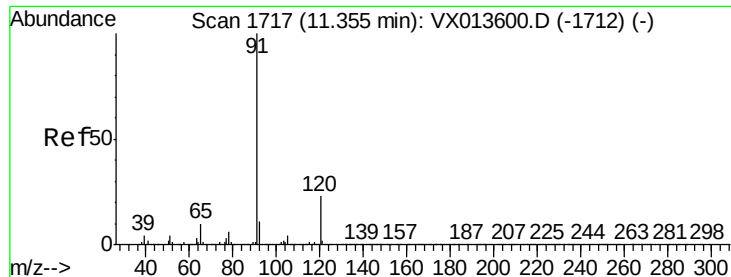
Tgt Ion: 105 Resp: 5325
Ion Ratio Lower Upper
105 100
120 28.9 13.5 40.5



#76
1,2,3-Trichloropropane
Concen: 21.641 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

Tgt Ion: 75 Resp: 159924
Ion Ratio Lower Upper
75 100
77 1.2 19.1 57.5#

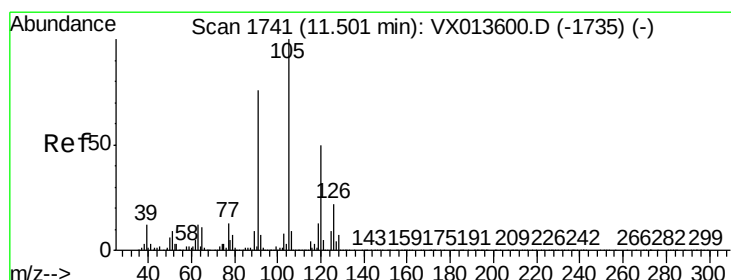
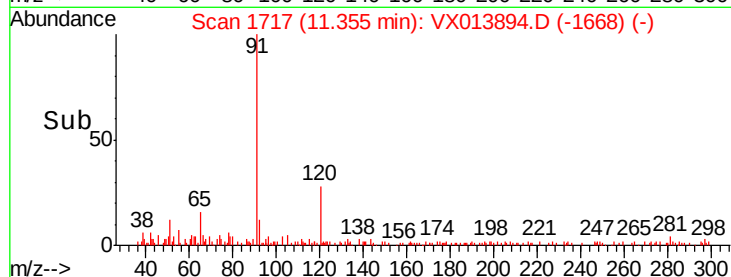
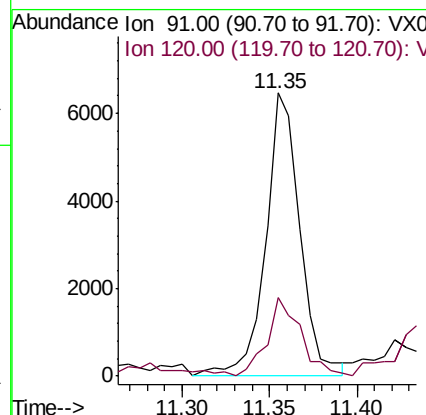
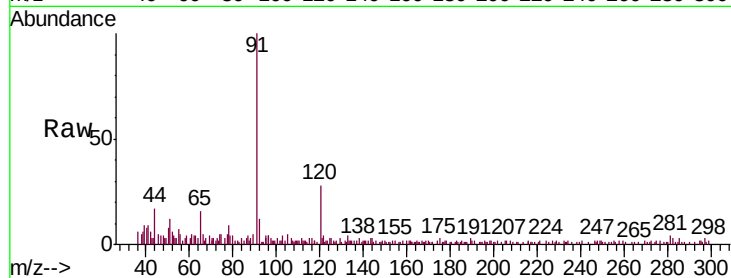




#78
n-propylbenzene
Concen: 0.342 ug/l
RT: 11.35 min Scan# 1717
Delta R.T. 0.00 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

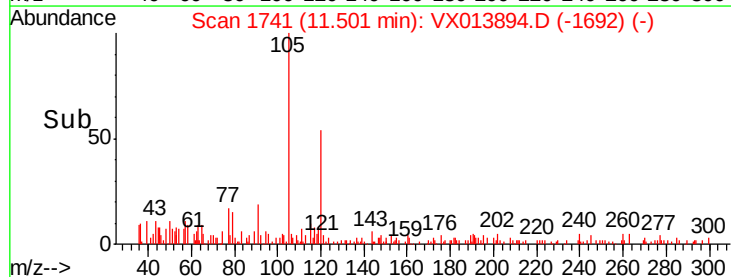
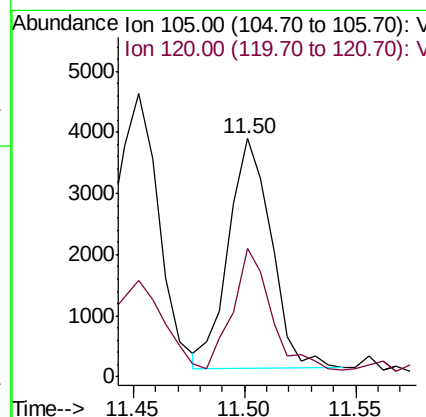
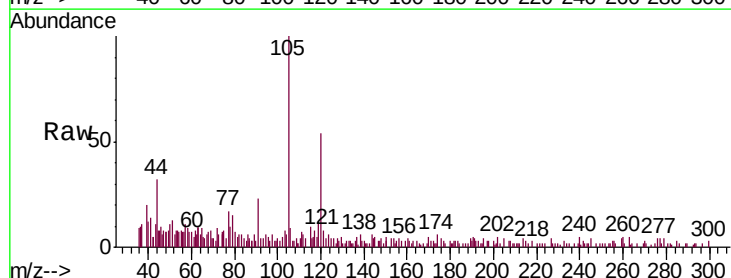
Instrument :
MSVOA_X
ClientSampleId :
RPC-WG

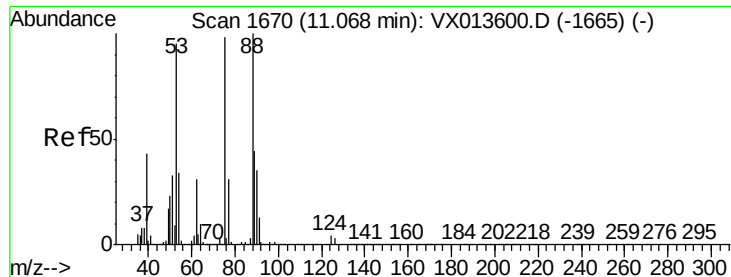
Tgt Ion: 91 Resp: 8807
Ion Ratio Lower Upper
91 100
120 27.6 11.8 35.3



#80
1,3,5-Trimethylbenzene
Concen: 0.266 ug/l
RT: 11.50 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

Tgt Ion: 105 Resp: 5030
Ion Ratio Lower Upper
105 100
120 48.4 25.3 75.9

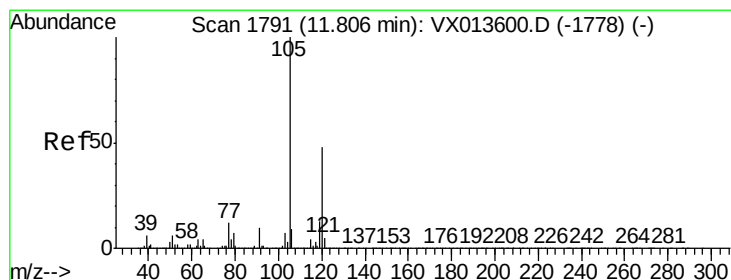
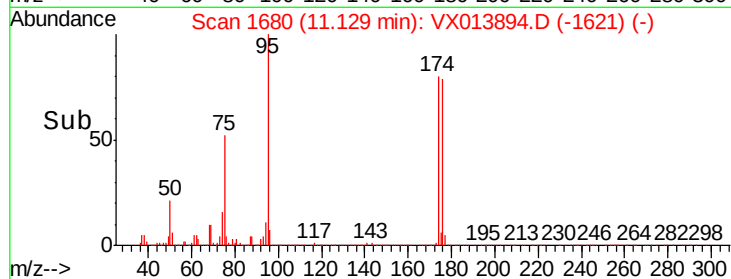
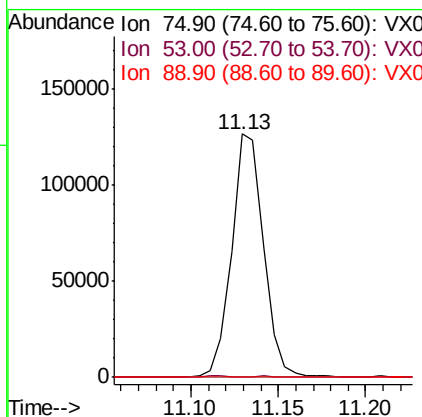
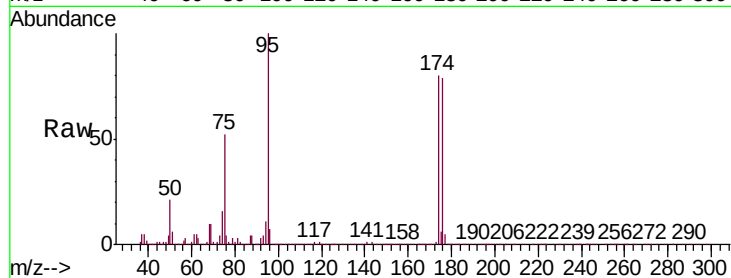




#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.207 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX013894.D
 Acq: 10 Dec 2019 13:39

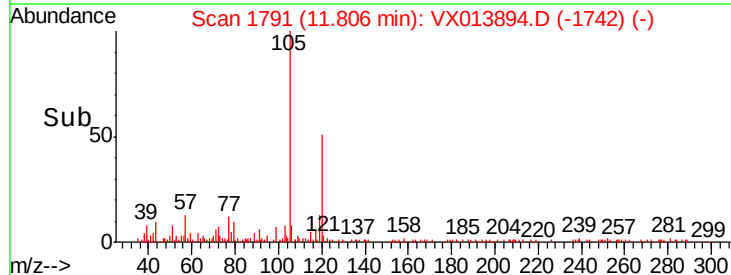
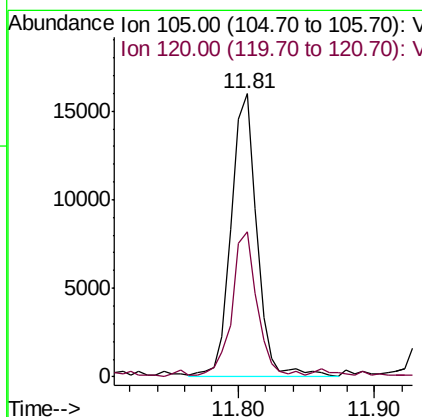
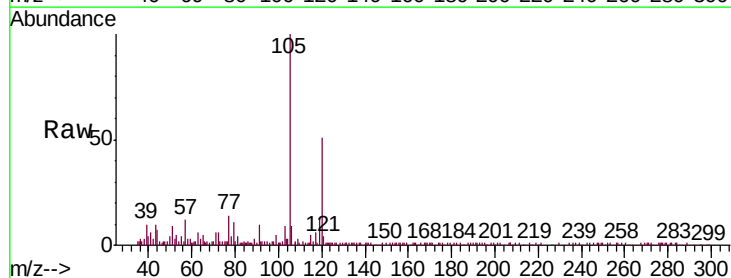
Instrument :
 MSVOA_X
 ClientSampleId :
 RPC-WG

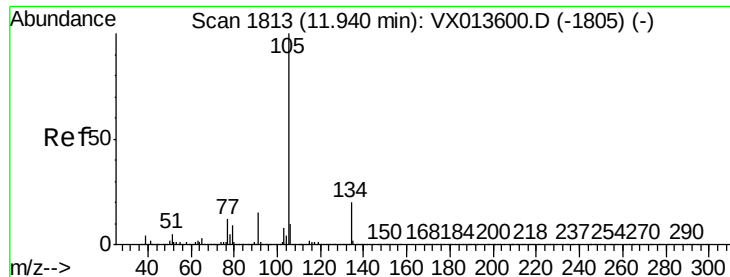
Tgt Ion: 75 Resp: 159924
 Ion Ratio Lower Upper
 75 100
 53 0.5 78.2 117.2#
 89 0.2 35.4 53.2#



#84
 1,2,4-Trimethylbenzene
 Concen: 1.109 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.00 min
 Lab File: VX013894.D
 Acq: 10 Dec 2019 13:39

Tgt Ion: 105 Resp: 21267
 Ion Ratio Lower Upper
 105 100
 120 48.5 23.1 69.3





#85

sec-Butylbenzene

Concen: 0.390 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampleId :

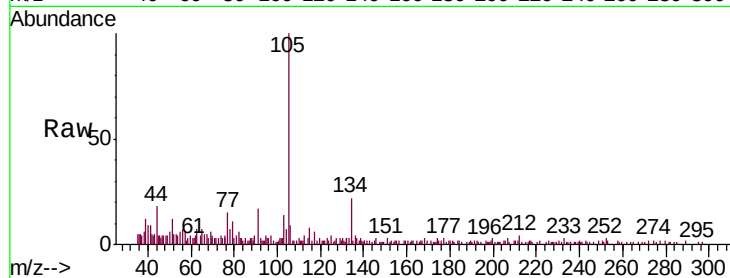
RPC-WG

Tgt Ion:105 Resp: 8547

Ion Ratio Lower Upper

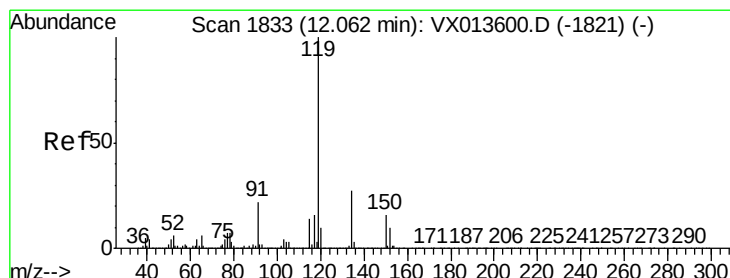
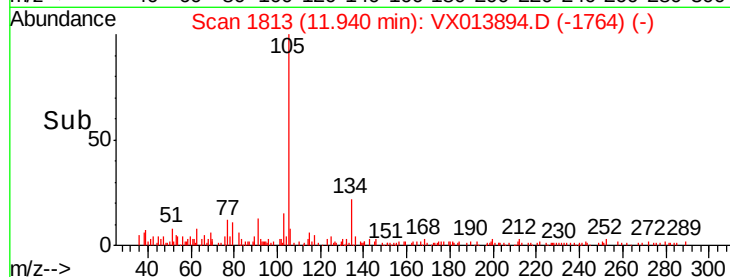
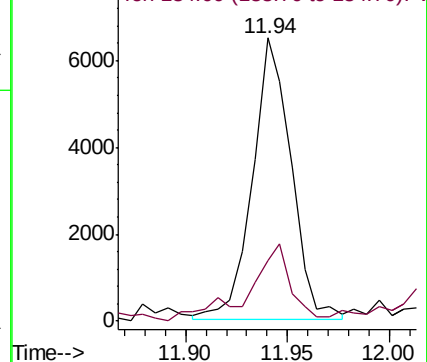
105 100

134 30.9 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.236 ug/l

RT: 12.03 min Scan# 1827

Delta R.T. -0.04 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

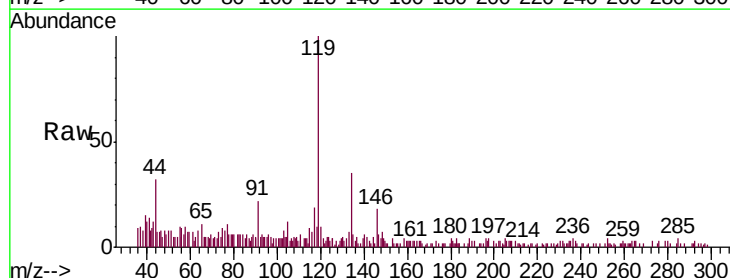
Tgt Ion:119 Resp: 4814

Ion Ratio Lower Upper

119 100

134 35.2 13.3 39.9

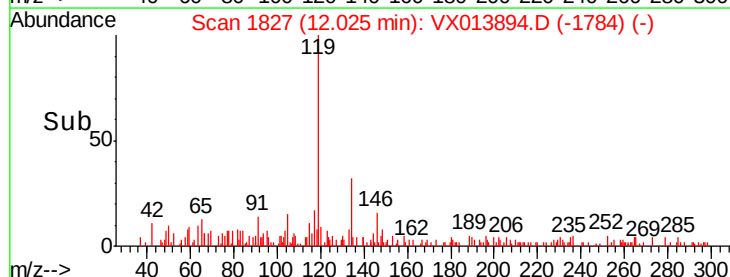
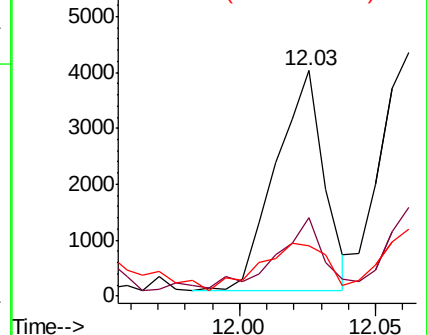
91 29.8 11.3 33.8

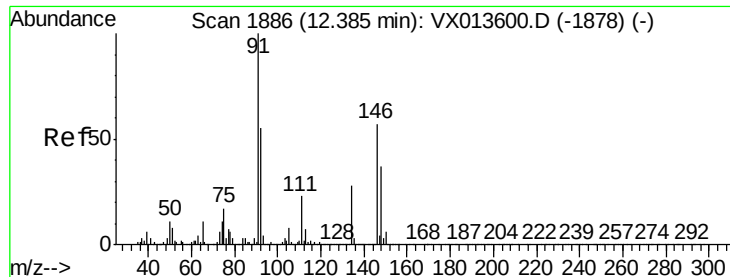


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#89

n-Butylbenzene

Concen: 0.406 ug/l

RT: 12.38 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX013894.D

Acq: 10 Dec 2019 13:39

Instrument :

MSVOA_X

ClientSampled :

RPC-WG

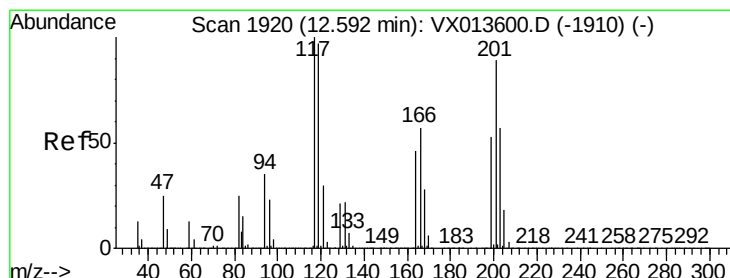
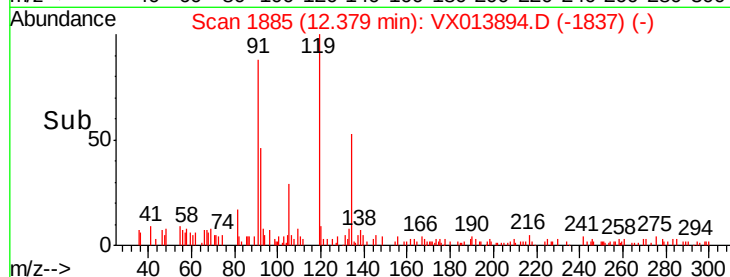
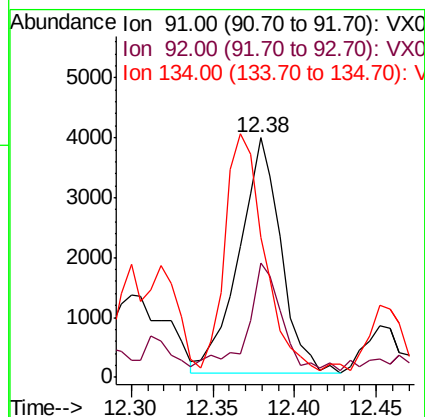
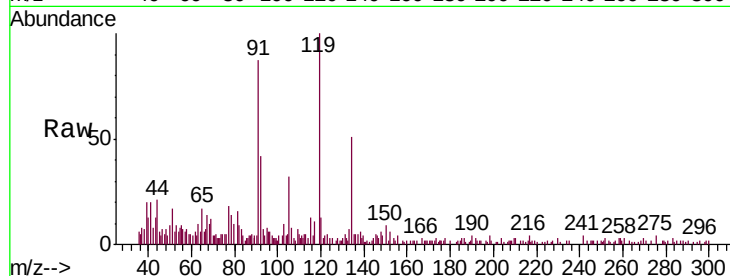
Tgt Ion: 91 Resp: 7064

Ion Ratio Lower Upper

91 100

92 34.2 27.4 82.2

134 92.3 13.5 40.4#



#90

Hexachloroethane

Concen: 0.352 ug/l

RT: 12.58 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VX013894.D

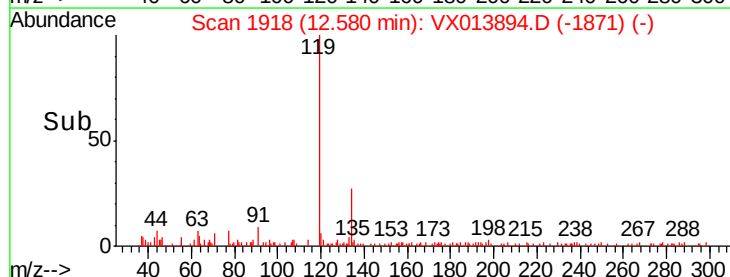
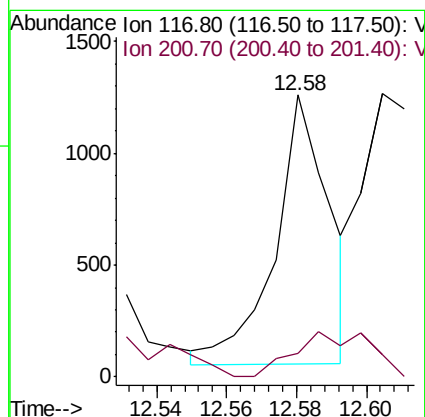
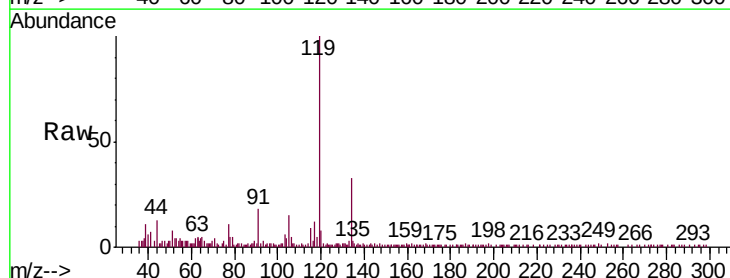
Acq: 10 Dec 2019 13:39

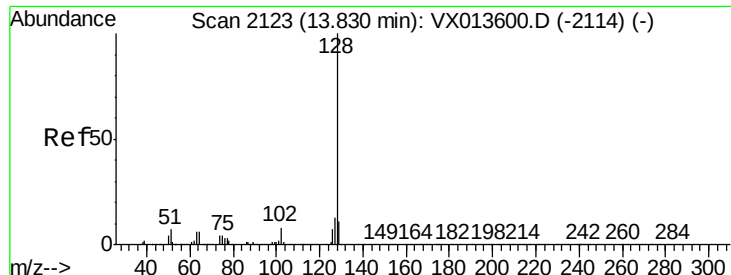
Tgt Ion: 117 Resp: 1297

Ion Ratio Lower Upper

117 100

201 23.2 44.1 132.4#





#95
Naphthalene
Concen: 0.914 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX013894.D
Acq: 10 Dec 2019 13:39

Instrument :
MSVOA_X
ClientSampleId :
RPC-WG

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.5	10.3	15.5#
129	20.3	8.7	13.1#

