

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120419\
 Data File : VX013758.D
 Acq On : 04 Dec 2019 18:37
 Operator : JC/SP
 Sample : K6098-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C5-GW

Quant Time: Dec 05 00:59:14 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	695487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1045488	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	944189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	441755	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	373109	46.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.44%	
35) Dibromofluoromethane	5.49	113	315503	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
50) Toluene-d8	8.71	98	1233985	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	
62) 4-Bromofluorobenzene	11.14	95	426592	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	

Target Compounds

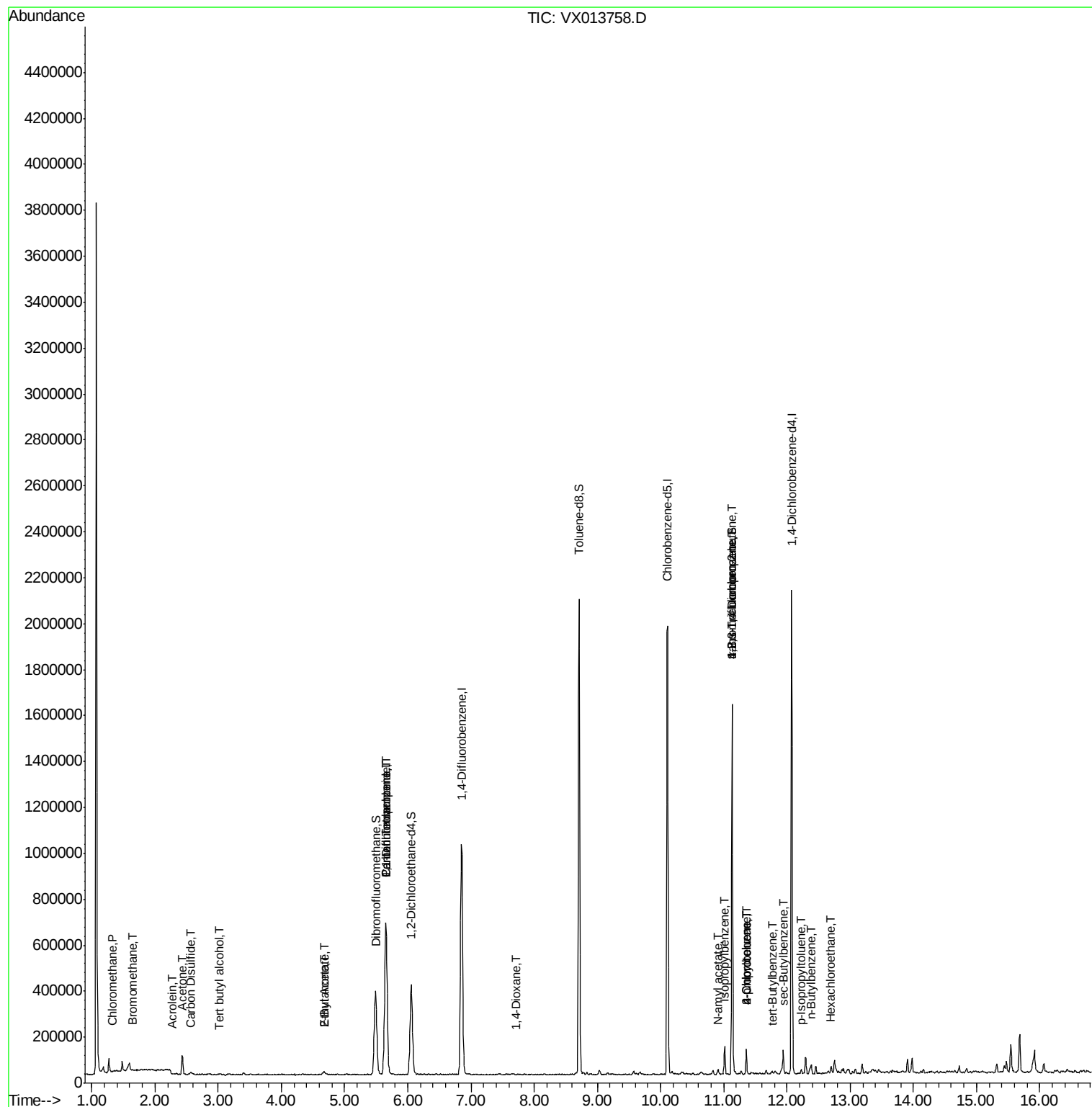
						Qvalue
3) Chloromethane	1.32	50	2613	0.301	ug/l #	73
5) Bromomethane	1.64	94	1439	0.219	ug/l #	61
11) Tert butyl alcohol	3.01	59	4245	2.130	ug/l #	74
13) Acrolein	2.28	56	708	6.522	ug/l #	56
16) Acetone	2.43	43	91089	22.854	ug/l	98
17) Carbon Disulfide	2.56	76	14589	0.773	ug/l	98
25) 2-Butanone	4.67	43	23840	4.025	ug/l	96
36) 1,1-Dichloropropene	5.65	75	44575	4.697	ug/l #	51
37) Ethyl Acetate	4.67	43	23840	2.239	ug/l #	71
38) Carbon Tetrachloride	5.65	117	61282	7.003	ug/l #	15
49) 1,4-Dioxane	7.72	88	90	0.472	ug/l #	24
73) Isopropylbenzene	11.01	105	62166	2.006	ug/l	98
74) N-amyl acetate	10.91	43	5014	0.353	ug/l #	45
76) 1,2,3-Trichloropropane	11.13	75	210043	21.140	ug/l #	39
78) n-propylbenzene	11.35	91	66715	1.929	ug/l	99
79) 2-Chlorotoluene	11.35	91	66715	3.215	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	210043	57.835	ug/l #	11
82) 4-Chlorotoluene	11.35	91	66715	2.776	ug/l #	43
83) tert-Butylbenzene	11.76	119	6305	0.244	ug/l	92
85) sec-Butylbenzene	11.94	105	55365	1.878	ug/l	86
86) p-Isopropyltoluene	12.23	119	8291	0.302	ug/l	95
89) n-Butylbenzene	12.38	91	16372	0.700	ug/l	95
90) Hexachloroethane	12.70	117	10652	2.149	ug/l #	6

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

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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: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampled :

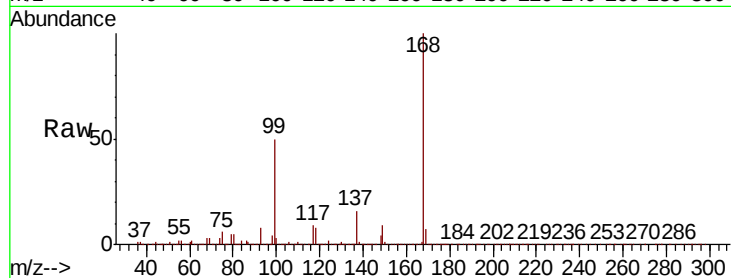
OWL-C5-GW

Tot Ion:168 Resp: 695487

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

250000

200000

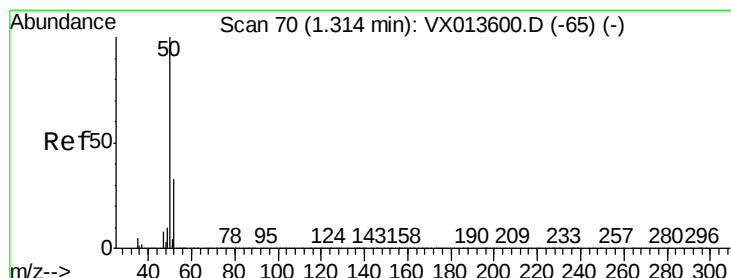
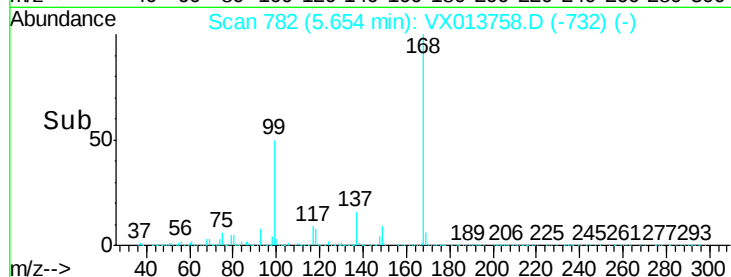
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.301 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013758.D

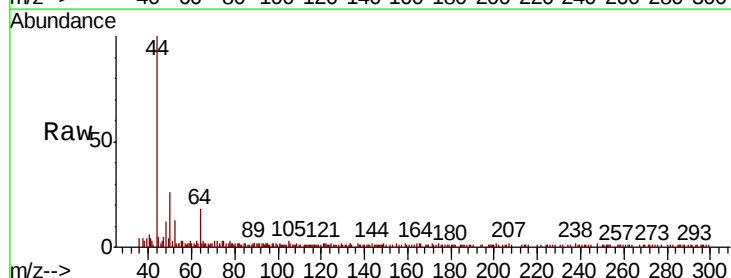
Acq: 04 Dec 2019 18:37

Tgt Ion: 50 Resp: 2613

Ion Ratio Lower Upper

50 100

52 47.6 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

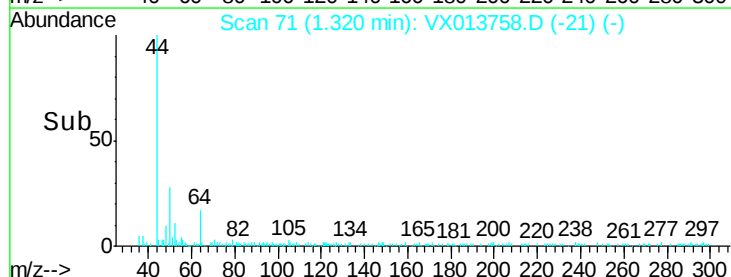
1500

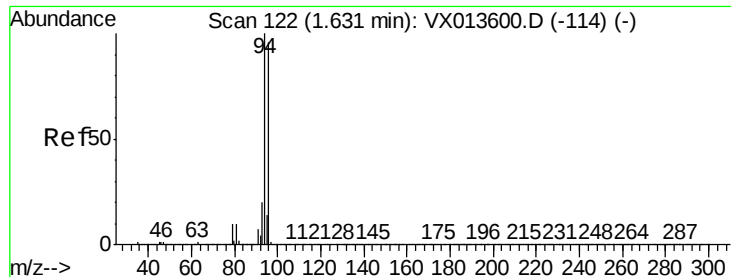
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.219 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampleId :

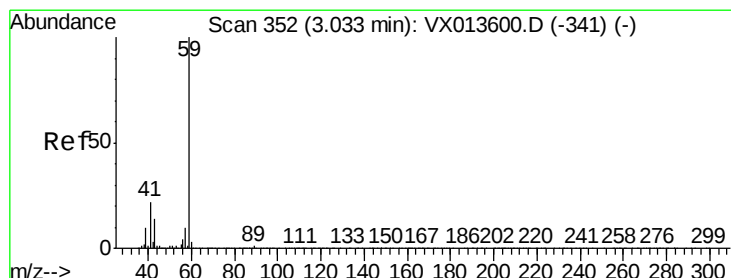
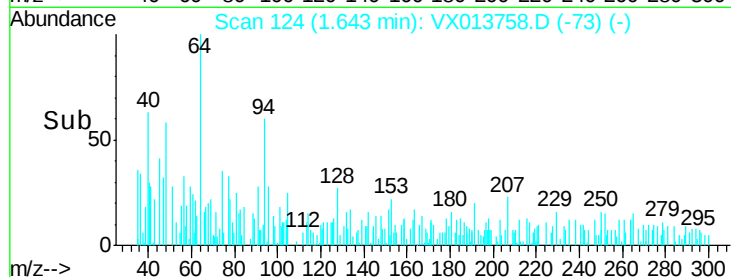
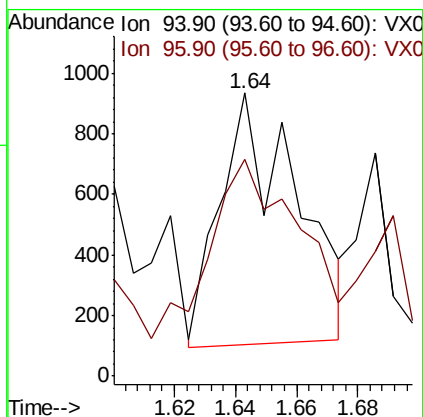
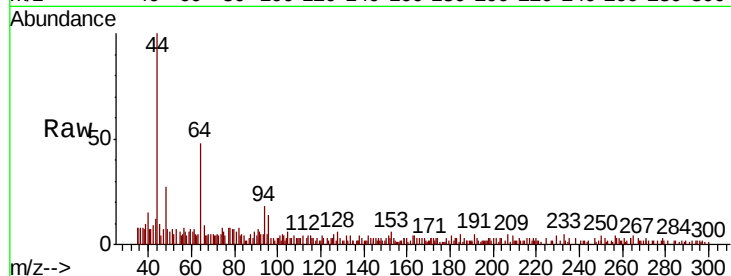
OWL-C5-GW

Tot Ion: 94 Resp: 1439

Ion Ratio Lower Upper

94 100

96 58.2 77.0 115.4#



#11

Tert butyl alcohol

Concen: 2.130 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013758.D

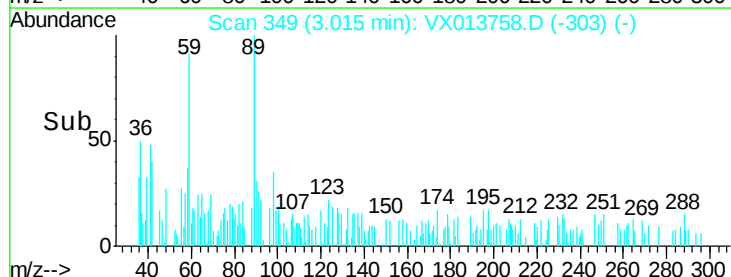
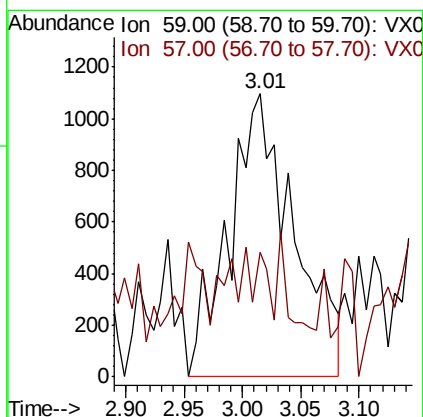
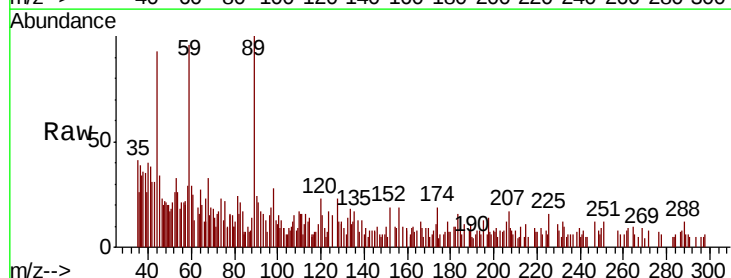
Acq: 04 Dec 2019 18:37

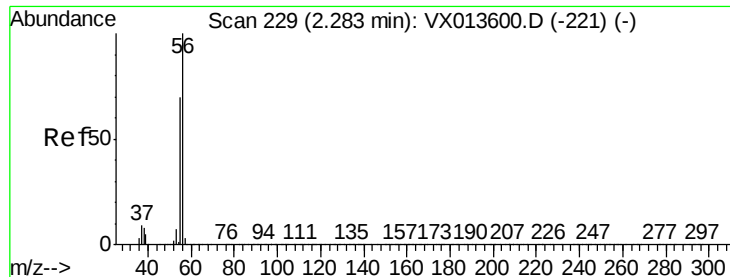
Tgt Ion: 59 Resp: 4245

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#

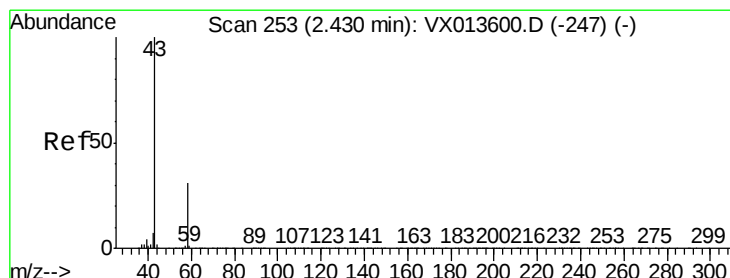
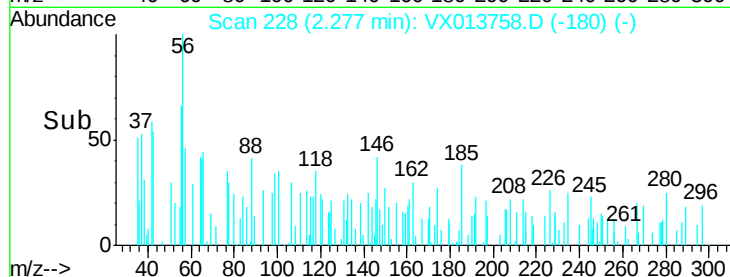
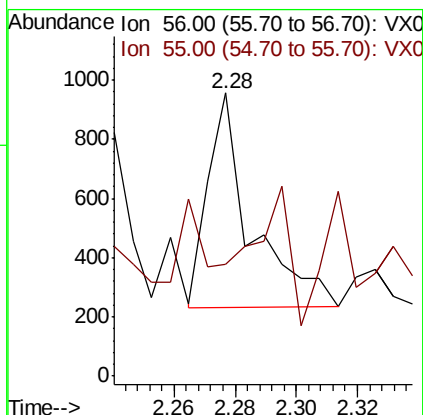
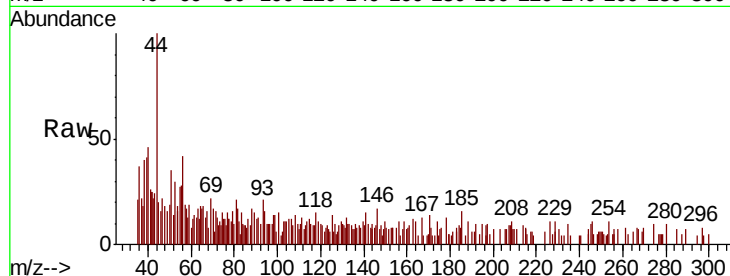




#13
Acrolein
Concen: 6.522 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

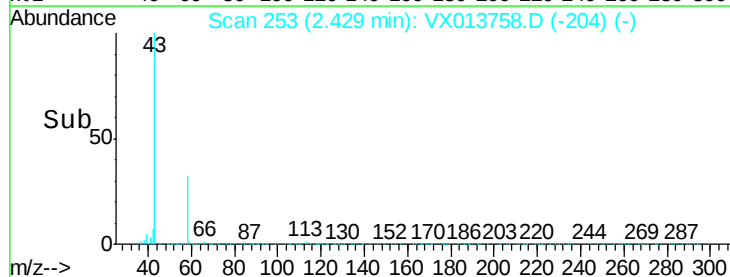
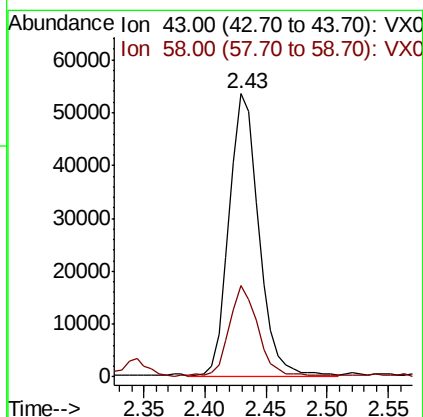
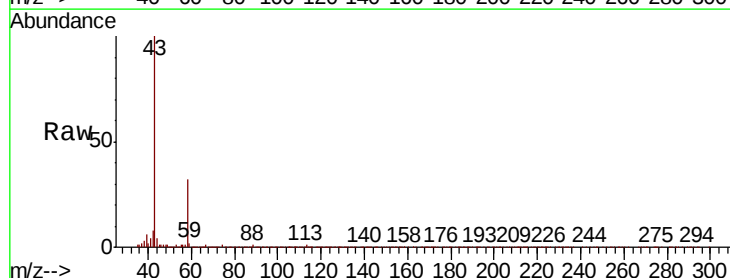
Instrument :
MSVOA_X
ClientSampleId :
OWL-C5-GW

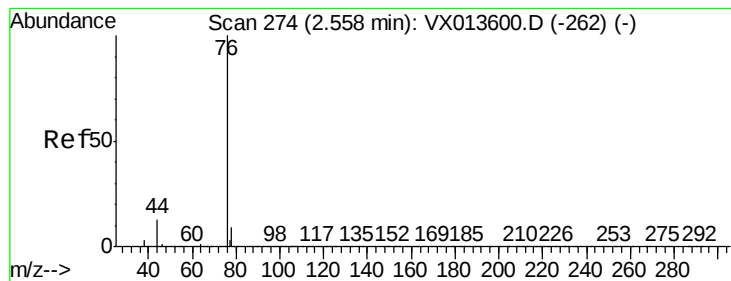
Tot Ion: 56 Resp: 708
Ion Ratio Lower Upper
56 100
55 34.5 56.2 84.4#



#16
Acetone
Concen: 22.854 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

Tgt Ion: 43 Resp: 91089
Ion Ratio Lower Upper
43 100
58 31.8 24.6 36.8





#17

Carbon Disulfide

Concen: 0.773 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampleId :

OWL-C5-GW

Tot Ion: 76 Resp: 14589

Ion Ratio Lower Upper

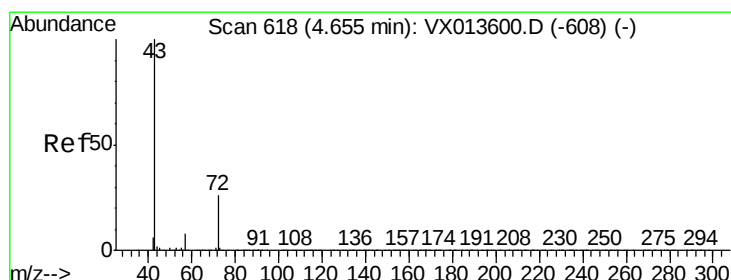
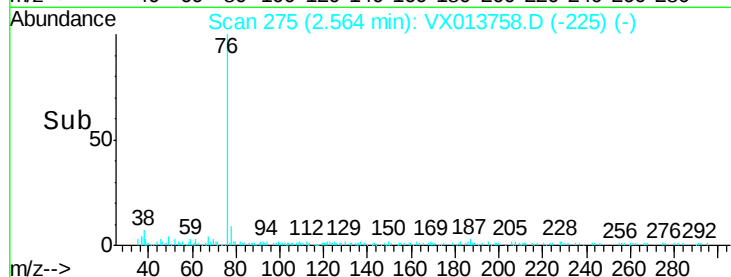
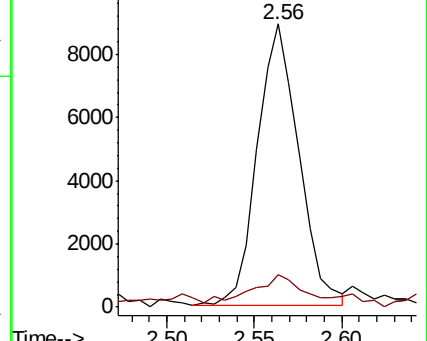
76 100

78 8.4 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#25

2-Butanone

Concen: 4.025 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX013758.D

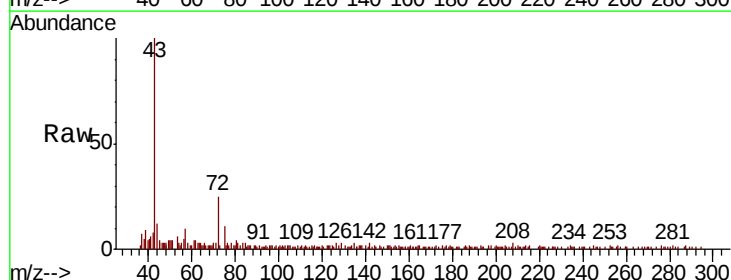
Acq: 04 Dec 2019 18:37

Tgt Ion: 43 Resp: 23840

Ion Ratio Lower Upper

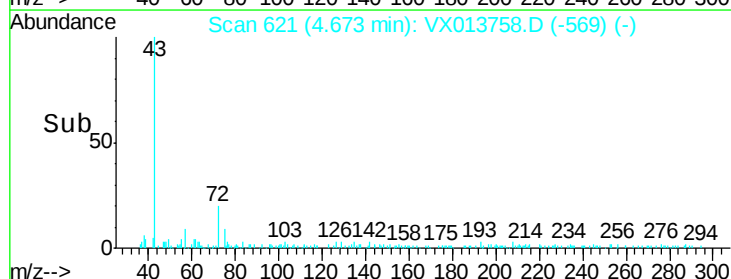
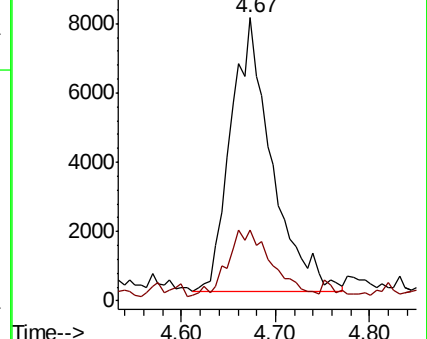
43 100

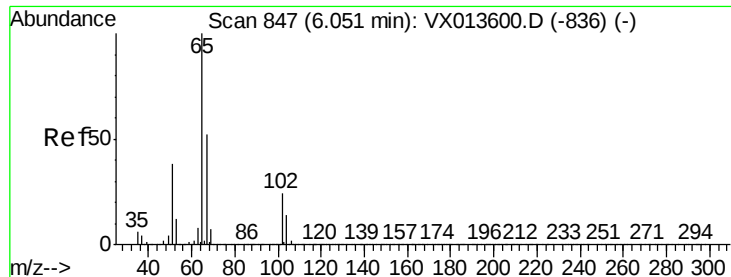
72 23.9 20.6 31.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.217 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampleId :

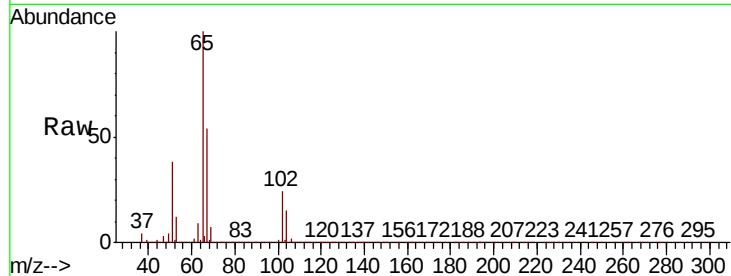
OWL-C5-GW

Tot Ion: 65 Resp: 373109

Ion Ratio Lower Upper

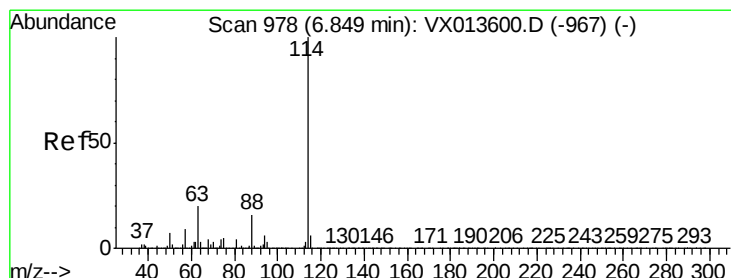
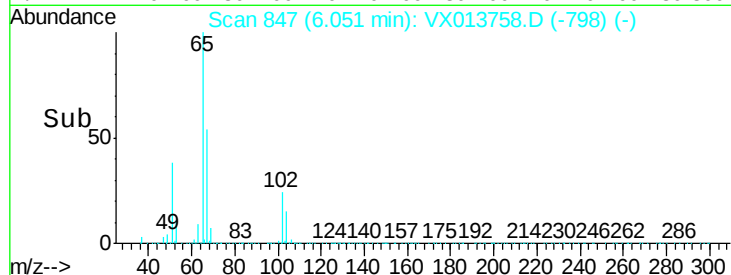
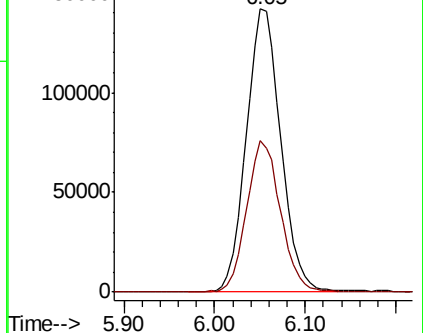
65 100

67 52.4 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: VX013758.D

Acq: 04 Dec 2019 18:37

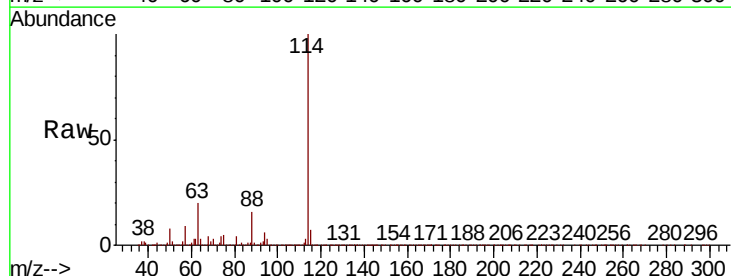
Tgt Ion: 114 Resp: 1045488

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

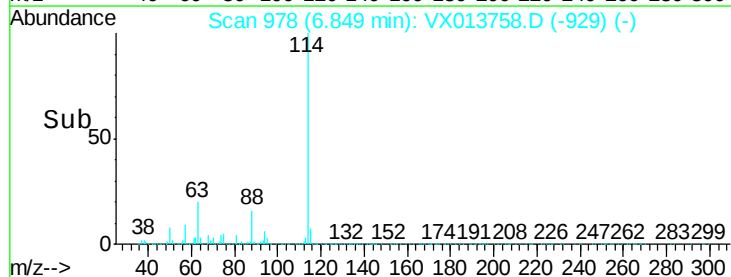
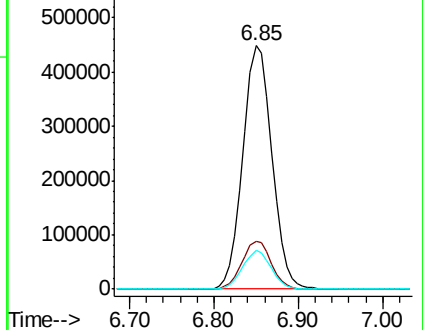
88 15.7 0.0 31.4

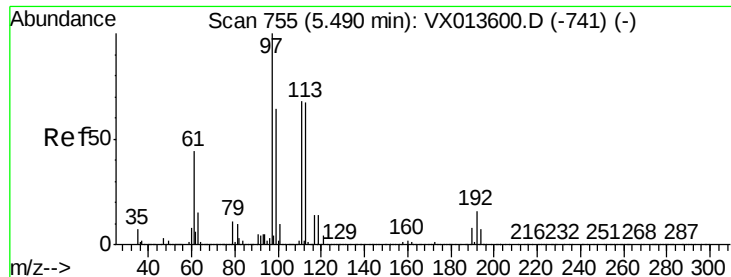


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.814 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampleId :

OWL-C5-GW

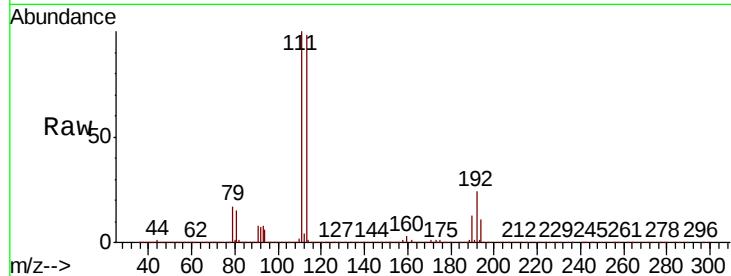
Tot Ion:113 Resp: 315503

Ion Ratio Lower Upper

113 100

111 100.7 83.6 125.4

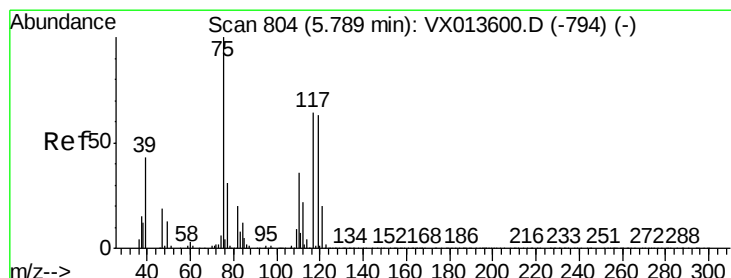
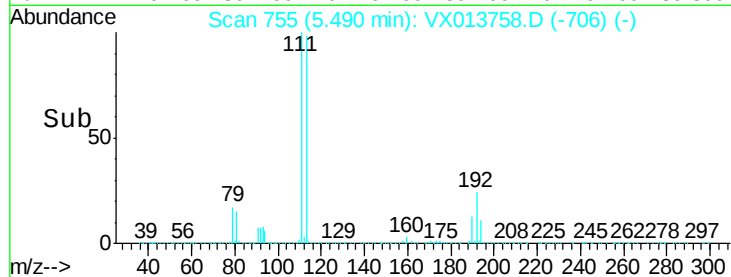
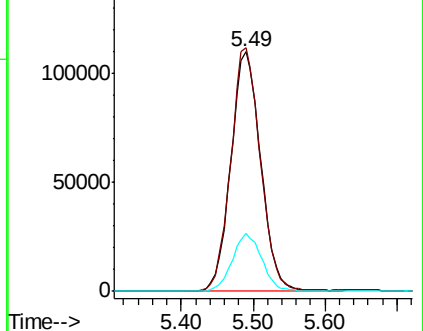
192 23.9 19.2 28.8



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: 4.697 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

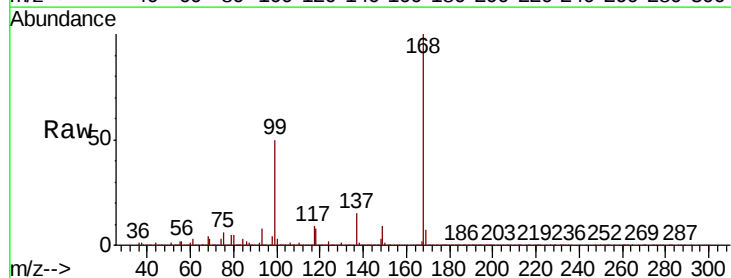
Tgt Ion: 75 Resp: 44575

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.1#

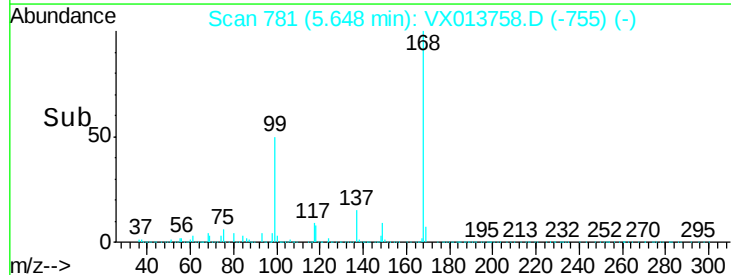
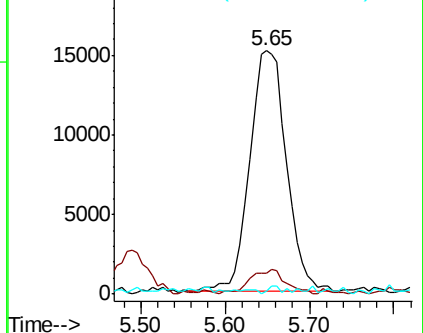
77 1.5 24.5 36.7#

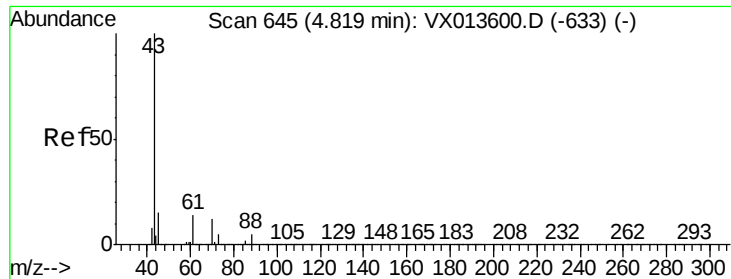


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

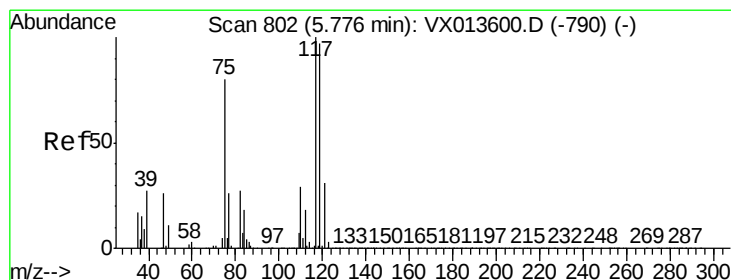
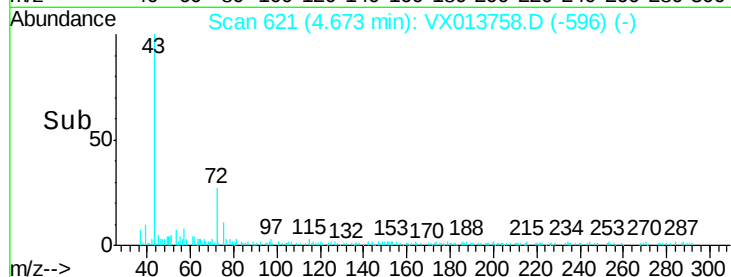
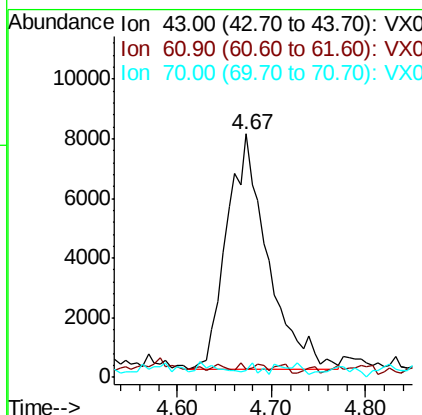
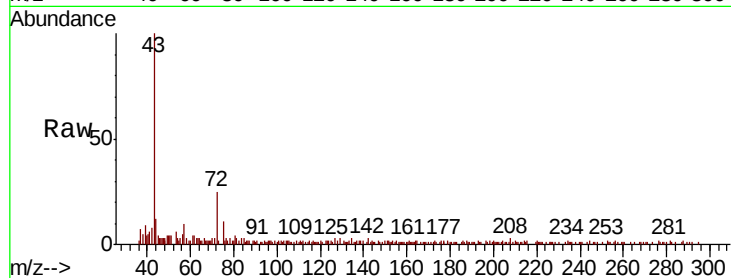




#37
Ethyl Acetate
Concen: 2.239 ug/l
RT: 4.67 min Scan# 621
Delta R.T. -0.15 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

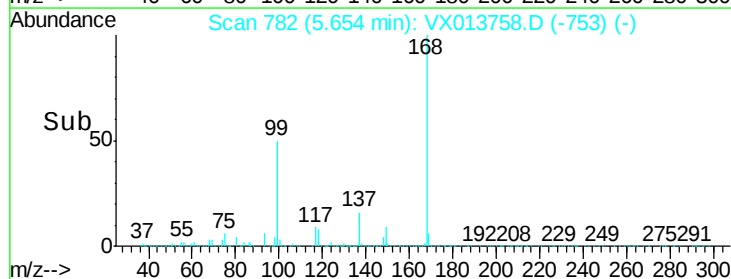
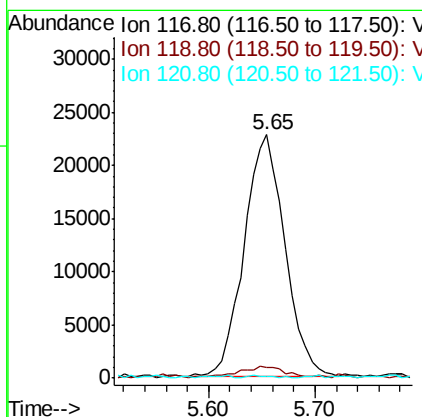
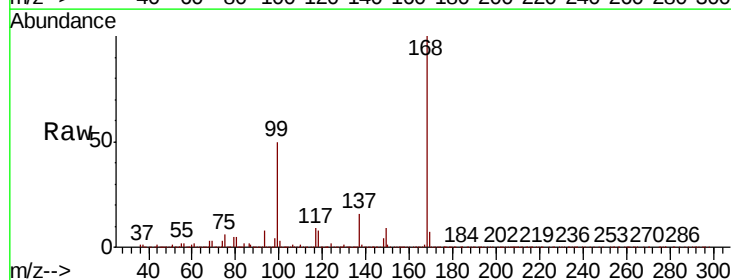
Instrument :
MSVOA_X
ClientSampled :
OWL-C5-GW

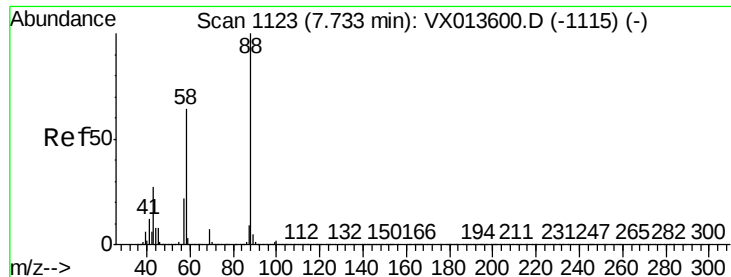
Tot Ion: 43 Resp: 23840
Ion Ratio Lower Upper
43 100
61 0.6 11.0 16.4#
70 1.1 8.6 12.8#



#38
Carbon Tetrachloride
Concen: 7.003 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

Tgt Ion: 117 Resp: 61282
Ion Ratio Lower Upper
117 100
119 3.8 77.5 116.3#
121 0.3 25.0 37.6#





#49

1,4-Dioxane

Concen: 0.472 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampled :

OWL-C5-GW

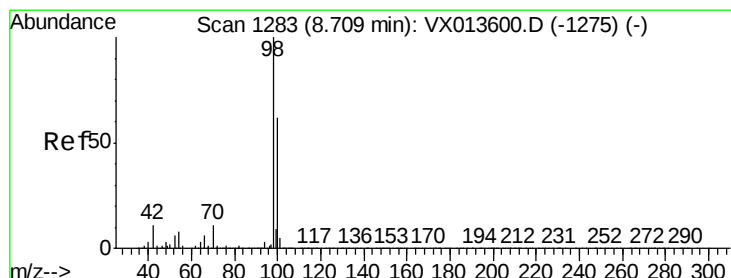
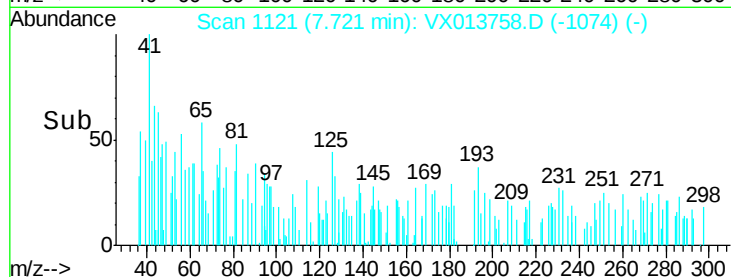
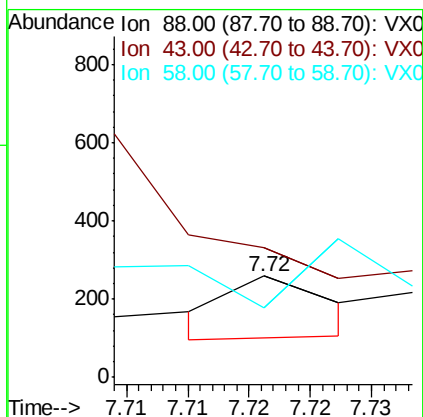
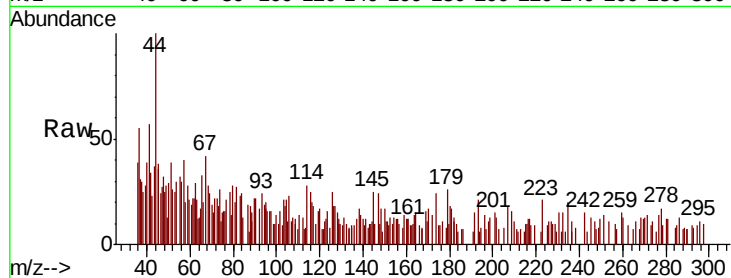
Tot Ion: 88 Resp: 90

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 0.0 54.6 82.0#



#50

Toluene-d8

Concen: 49.003 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013758.D

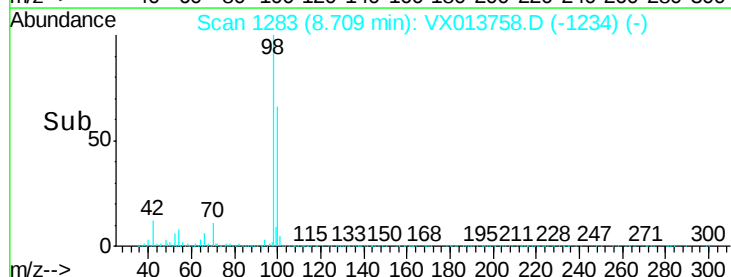
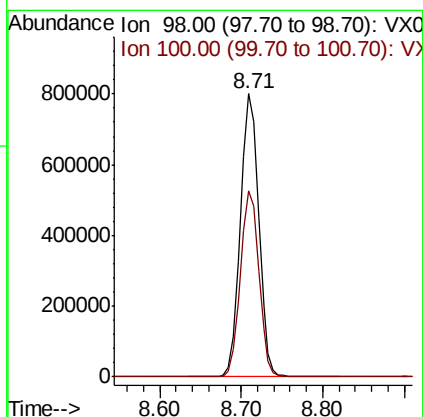
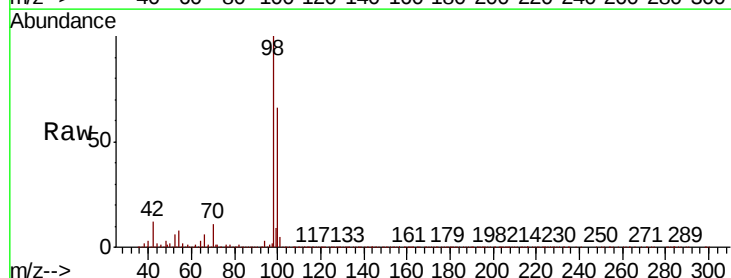
Acq: 04 Dec 2019 18:37

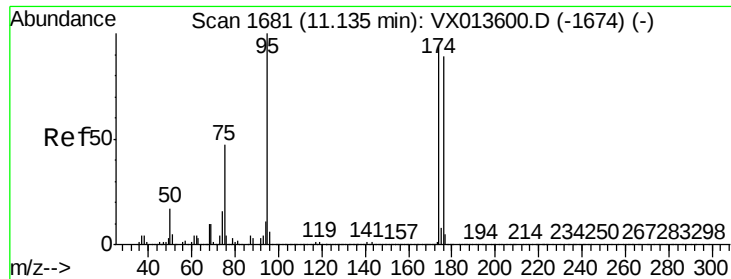
Tgt Ion: 98 Resp: 1233985

Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7

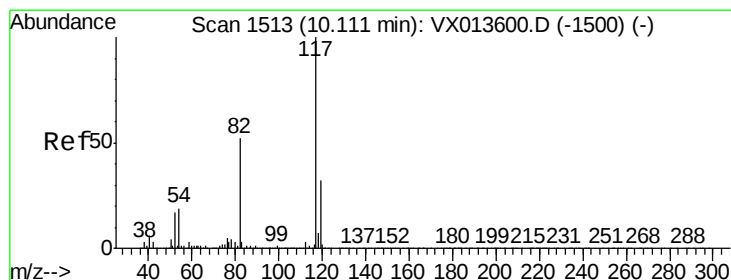
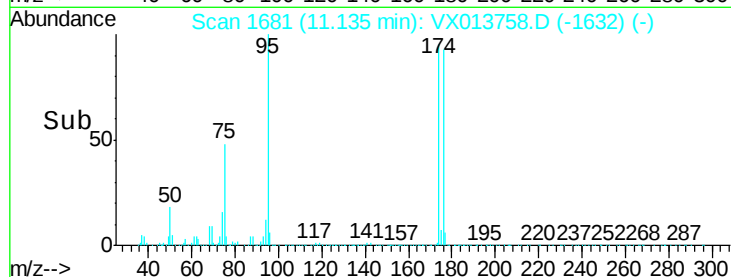
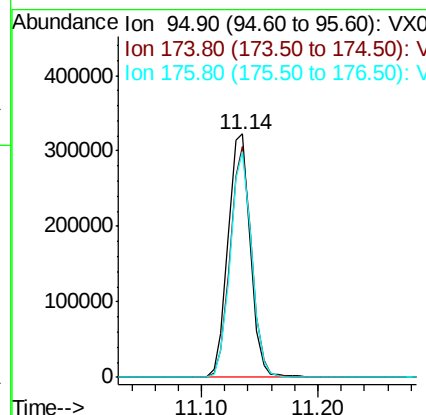
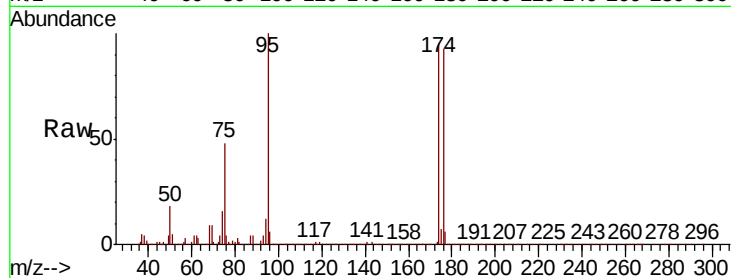




#62
4-Bromofluorobenzene
Concen: 46.978 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

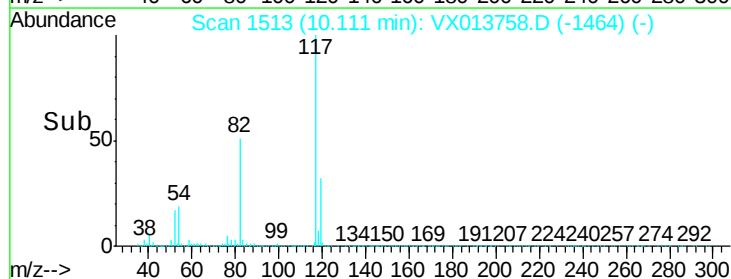
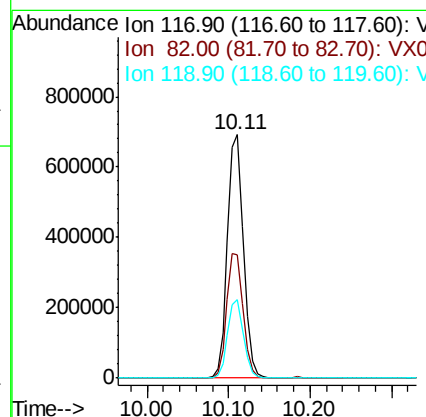
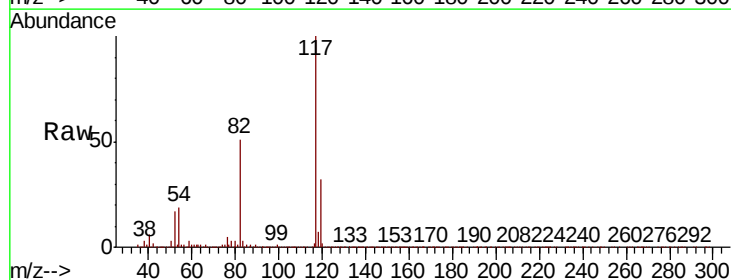
Instrument :
MSVOA_X
ClientSampleId :
OWL-C5-GW

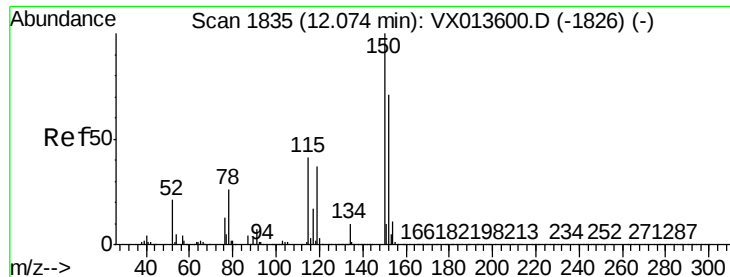
Tot Ion: 95 Resp: 426592
Ion Ratio Lower Upper
95 100
174 91.5 0.0 180.0
176 89.1 0.0 173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

Tgt Ion: 117 Resp: 944189
Ion Ratio Lower Upper
117 100
82 50.6 41.8 62.8
119 32.2 25.8 38.8



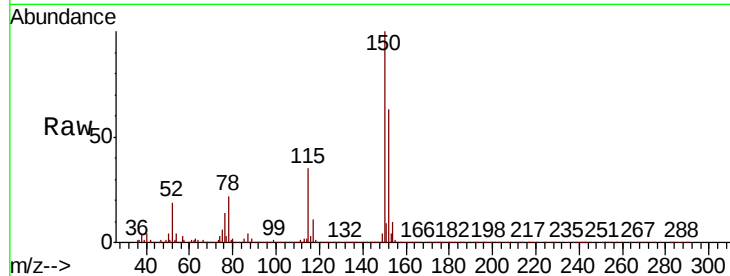


#72

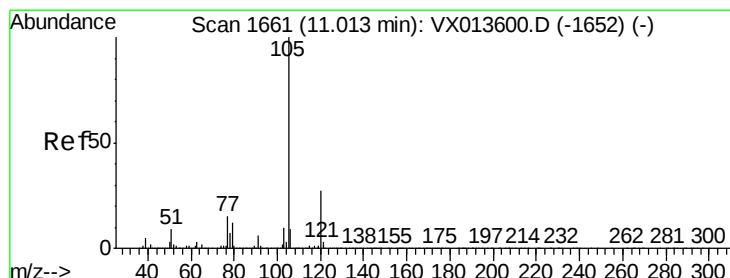
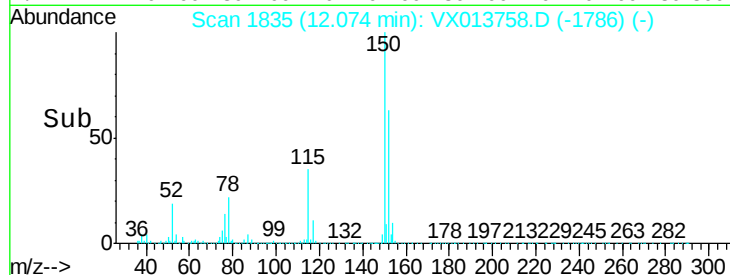
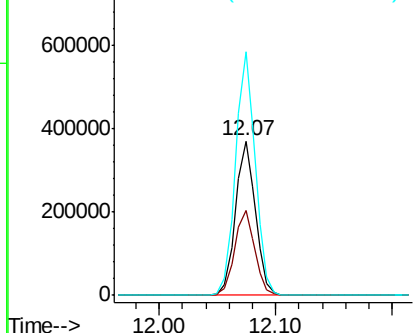
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

Instrument :
MSVOA_X
ClientSampleId :
OWL-C5-GW

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	38.4	115.1
150	156.1	0.0	346.8



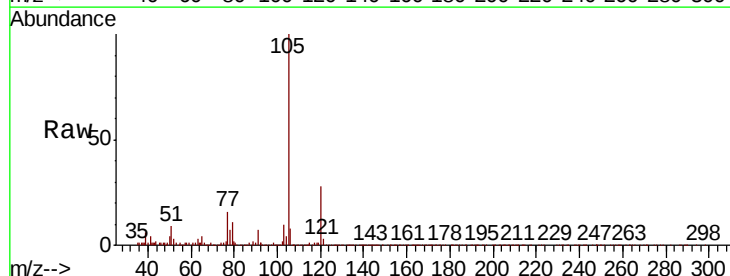
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



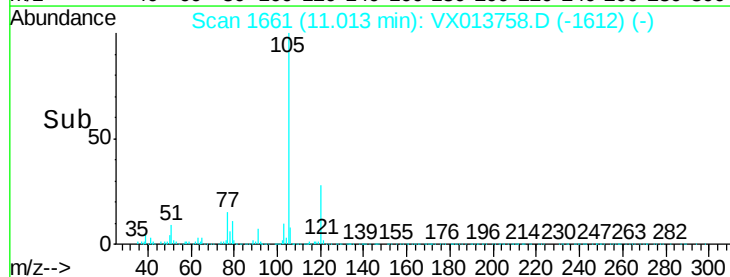
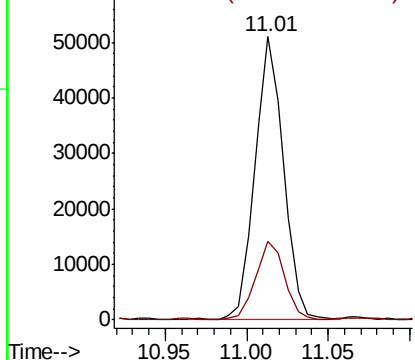
#73

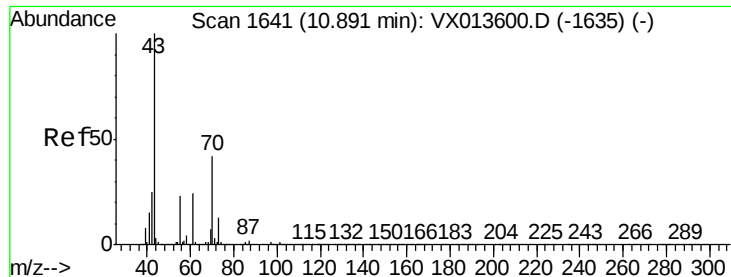
Isopropylbenzene
Concen: 2.006 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.0	13.5	40.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.353 ug/l

RT: 10.91 min Scan# 1644

Delta R.T. 0.02 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

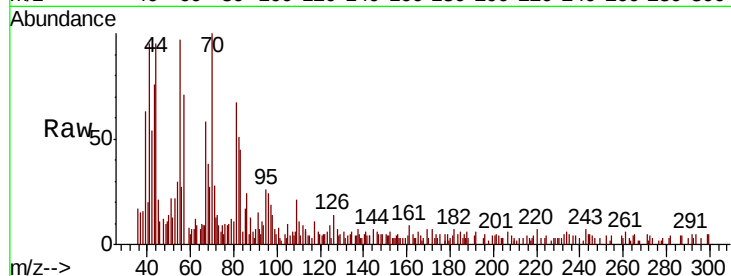
MSVOA_X

ClientSampleId :

OWL-C5-GW

Tot Ion: 43 Resp: 5014

Ion	Ratio	Lower	Upper
43	100		
70	56.9	34.3	51.5#
55	99.1	18.5	27.7#
61	15.5	19.8	29.8#

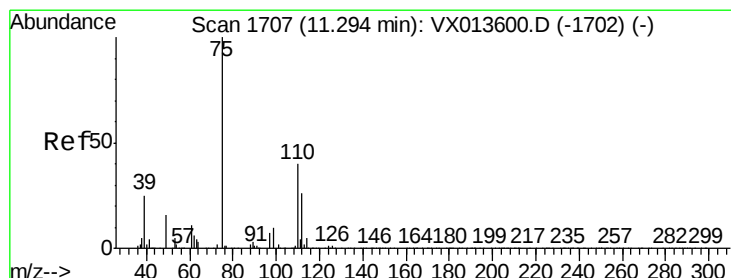
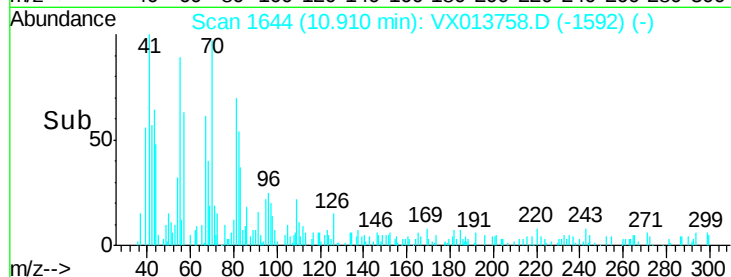
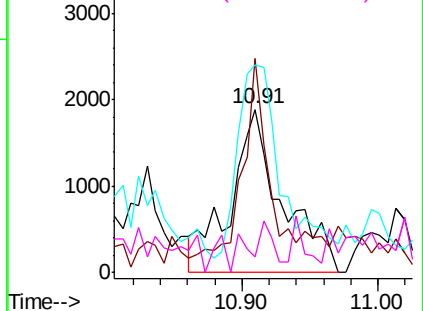


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.140 ug/l

RT: 11.13 min Scan# 1680

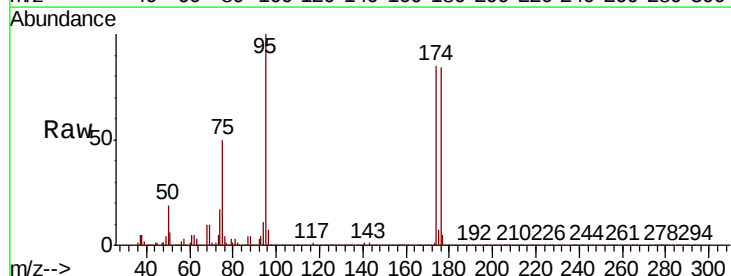
Delta R.T. -0.16 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

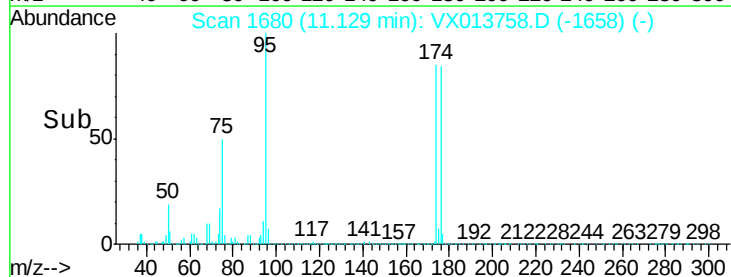
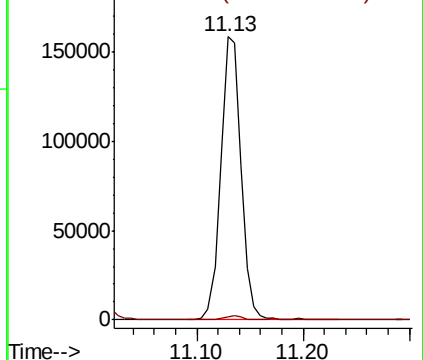
Tgt Ion: 75 Resp: 210043

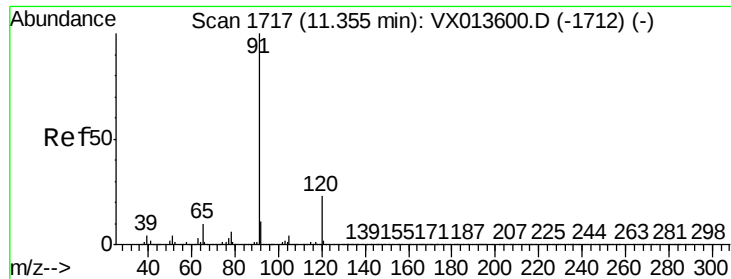
Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.1	57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 1.929 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampleId :

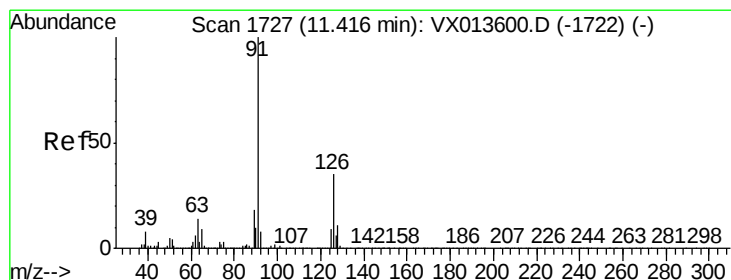
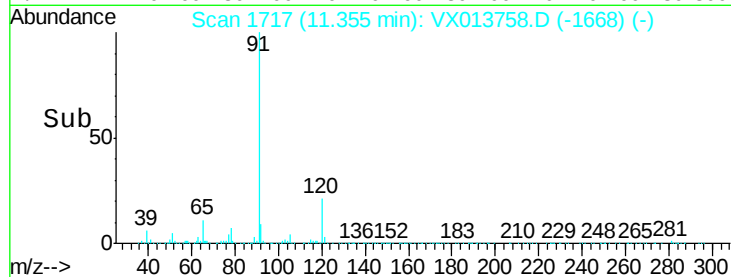
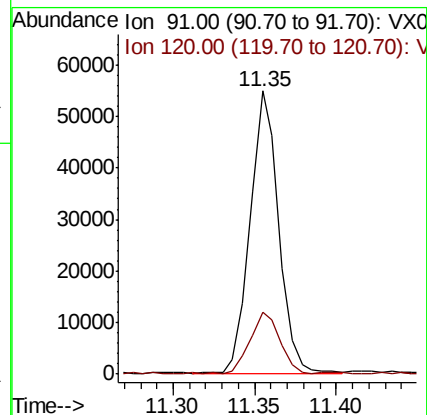
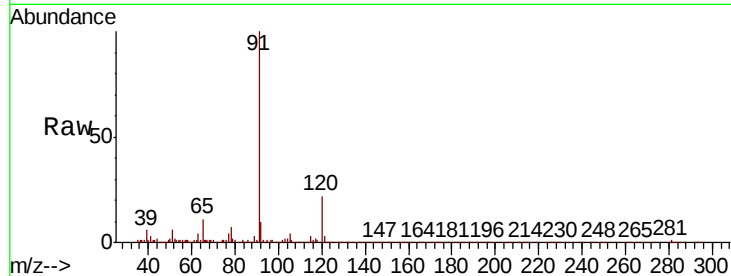
OWL-C5-GW

Tot Ion: 91 Resp: 66715

Ion Ratio Lower Upper

91 100

120 22.9 11.8 35.3



#79

2-Chlorotoluene

Concen: 3.215 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.06 min

Lab File: VX013758.D

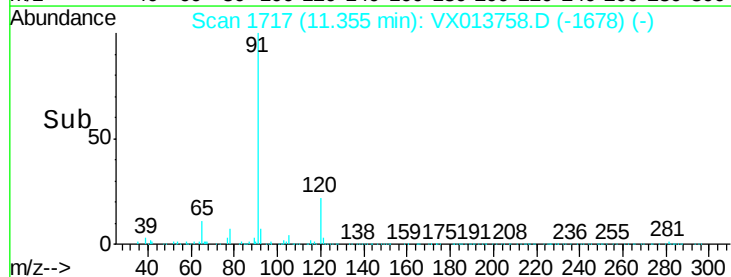
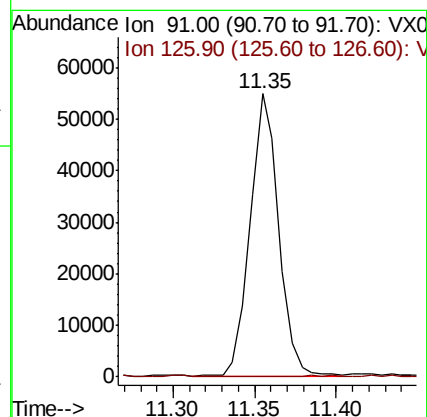
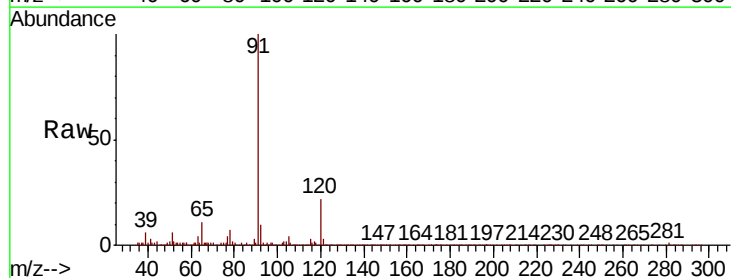
Acq: 04 Dec 2019 18:37

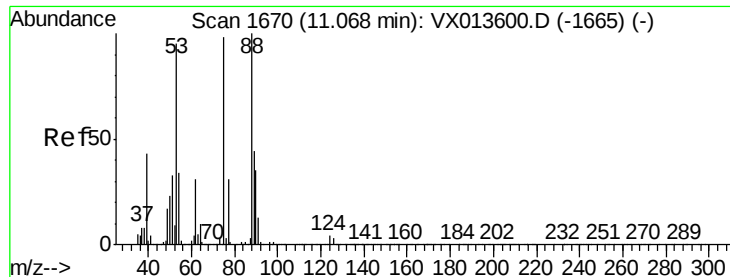
Tgt Ion: 91 Resp: 66715

Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 57.835 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampleId :

OWL-C5-GW

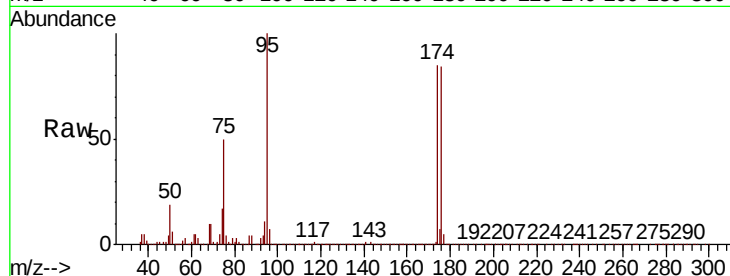
Tot Ion: 75 Resp: 210043

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

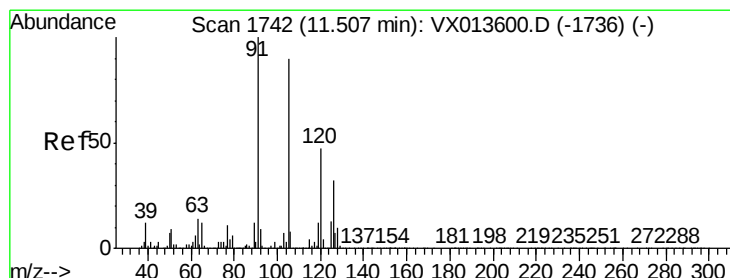
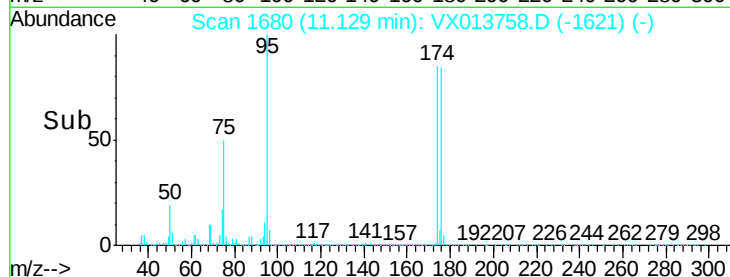
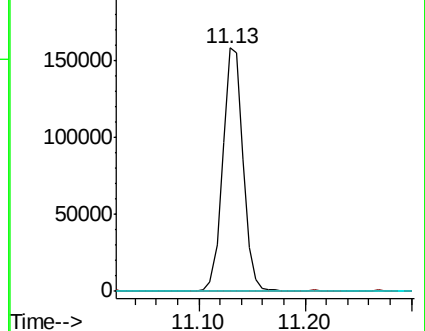
89 0.1 35.4 53.2#



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



#82

4-Chlorotoluene

Concen: 2.776 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.15 min

Lab File: VX013758.D

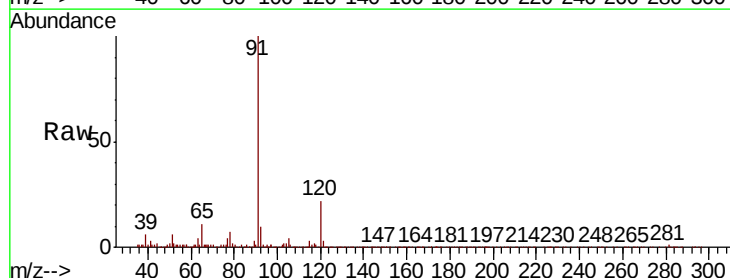
Acq: 04 Dec 2019 18:37

Tgt Ion: 91 Resp: 66715

Ion Ratio Lower Upper

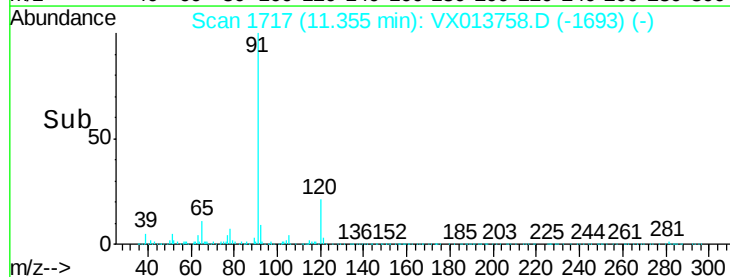
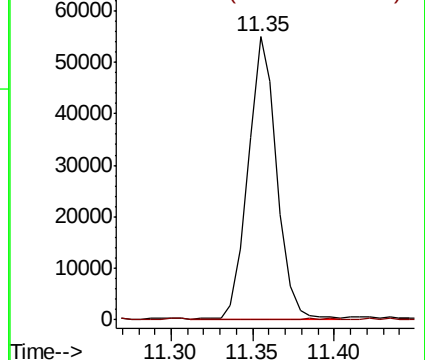
91 100

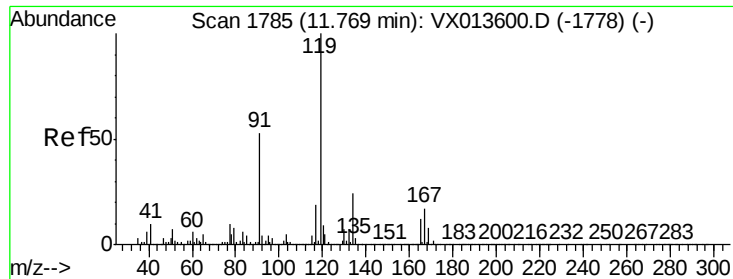
126 0.0 15.7 47.0#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

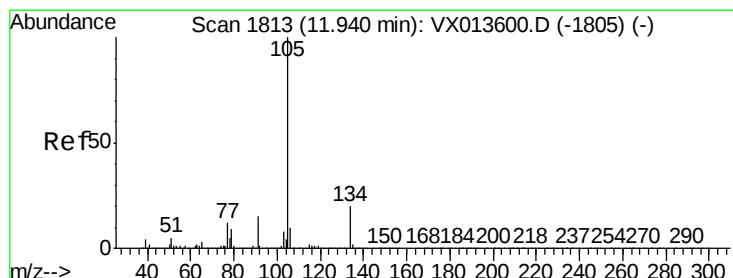
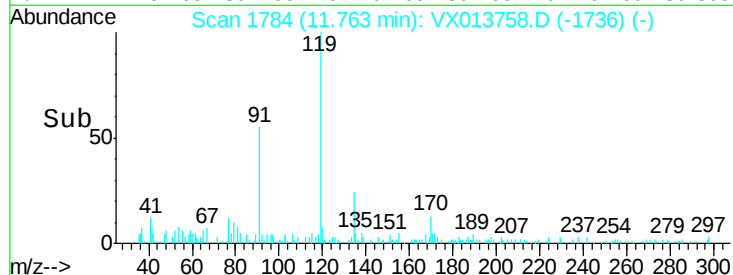
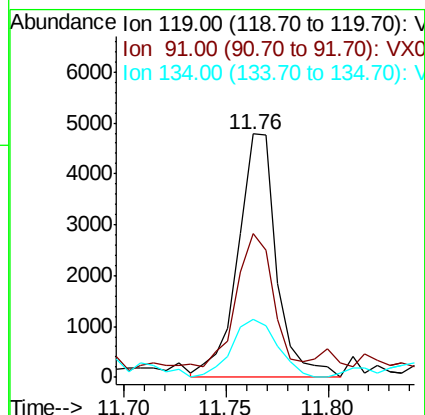
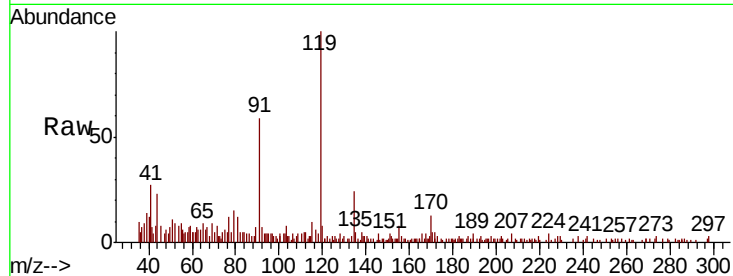




#83
tert-Butylbenzene
Concen: 0.244 ug/l
RT: 11.76 min Scan# 1784
Delta R.T. -0.01 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

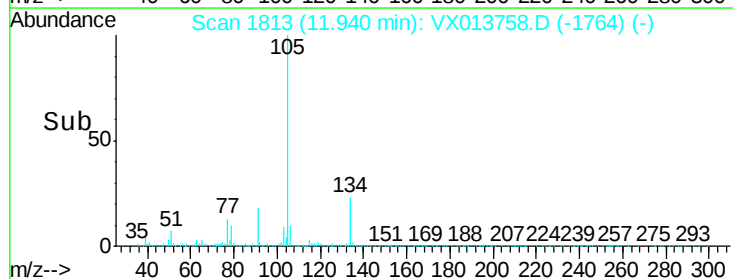
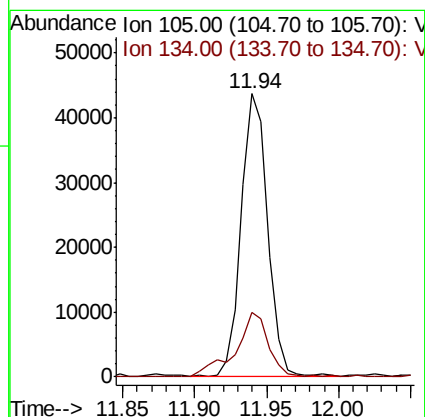
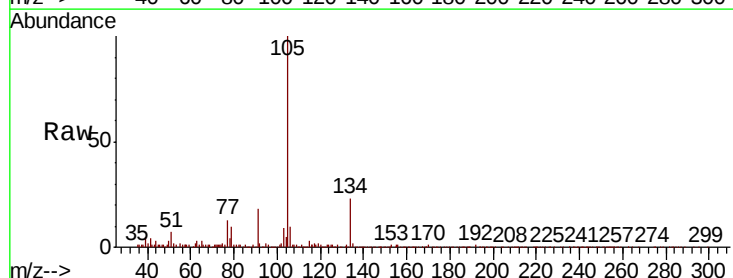
Instrument :
MSVOA_X
ClientSampleId :
OWL-C5-GW

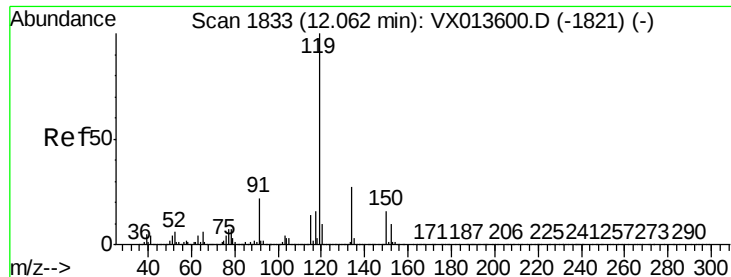
Tot Ion:119 Resp: 6305
Ion Ratio Lower Upper
119 100
91 49.0 27.2 81.6
134 27.9 11.7 35.1



#85
sec-Butylbenzene
Concen: 1.878 ug/l
RT: 11.94 min Scan# 1813
Delta R.T. -0.00 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

Tgt Ion:105 Resp: 55365
Ion Ratio Lower Upper
105 100
134 27.1 10.4 31.2

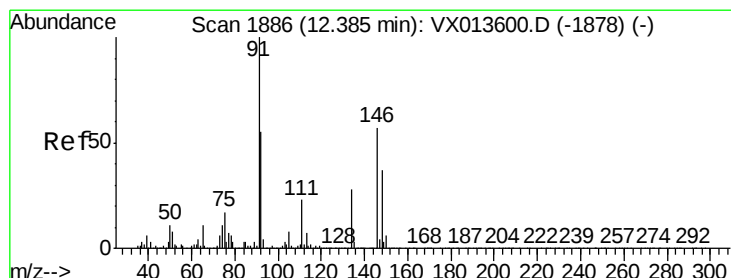
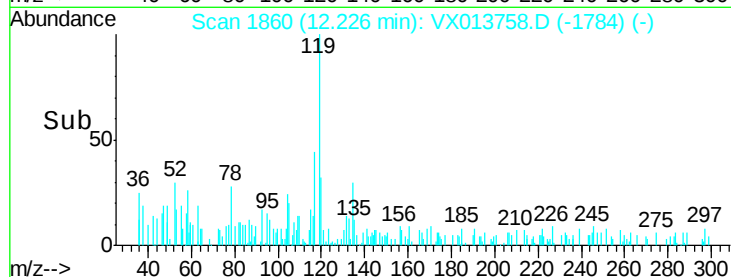
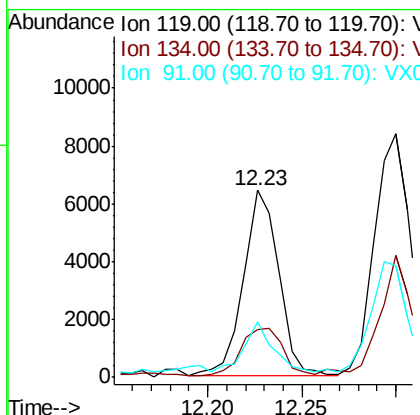
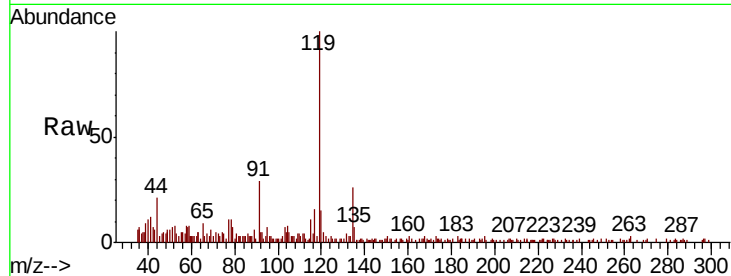




#86
p-Isopropyltoluene
Concen: 0.302 ug/l
RT: 12.23 min Scan# 1860
Delta R.T. 0.16 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

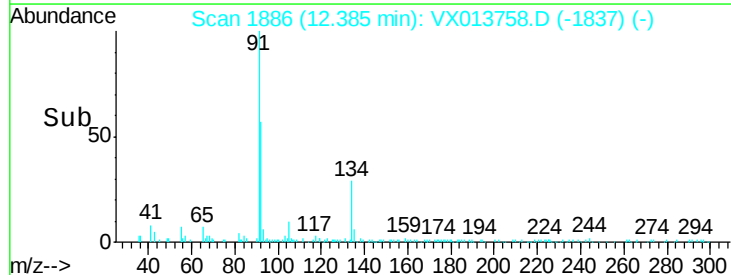
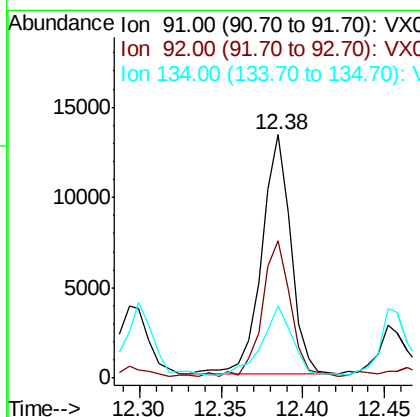
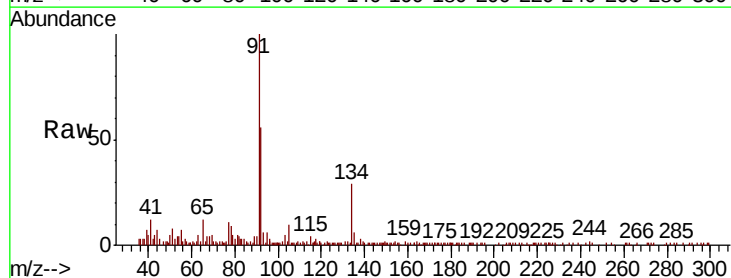
Instrument :
MSVOA_X
ClientSampled :
OWL-C5-GW

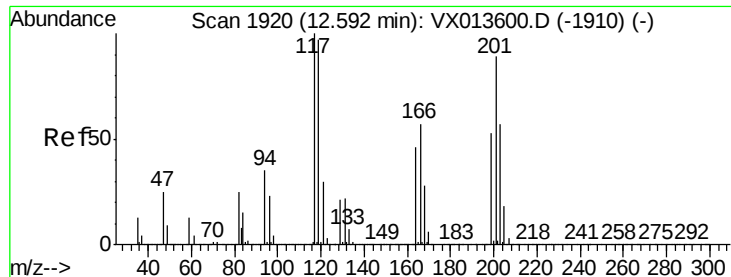
Tot Ion: 119 Resp: 8291
Ion Ratio Lower Upper
119 100
134 30.7 13.3 39.9
91 21.7 11.3 33.8



#89
n-Butylbenzene
Concen: 0.700 ug/l
RT: 12.38 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013758.D
Acq: 04 Dec 2019 18:37

Tgt Ion: 91 Resp: 16372
Ion Ratio Lower Upper
91 100
92 54.2 27.4 82.2
134 33.6 13.5 40.4





#90

Hexachloroethane

Concen: 2.149 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX013758.D

Acq: 04 Dec 2019 18:37

Instrument :

MSVOA_X

ClientSampleId :

OWL-C5-GW

Tot Ion:117 Resp: 10652

Ion Ratio Lower Upper

117 100

201 0.6 44.1 132.4#

