

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122318\
 Data File : VW007810.D
 Acq On : 21 Dec 2018 22:00
 Operator : SY/AP
 Sample : J6392-17RE
 Misc : 5.91G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 21 23:50:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	88389	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	147664	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	133121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	65155	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	44907	46.35	ug/l	0.00
Spiked Amount			Recovery	=	92.70%	
35) Dibromofluoromethane	7.88	113	40018	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	
50) Toluene-d8	10.32	98	157514	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	
62) 4-Bromofluorobenzene	12.62	95	60858	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	

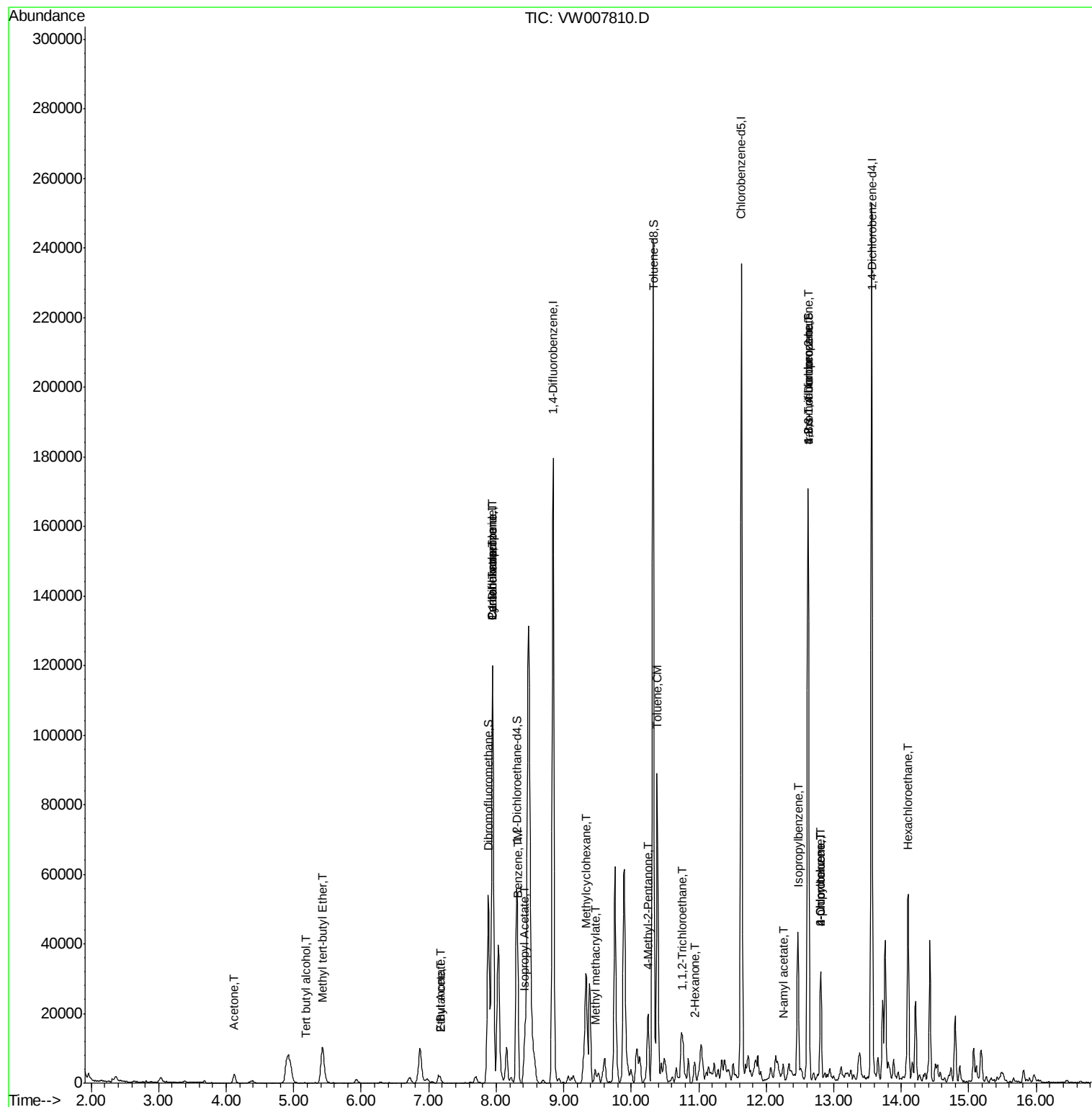
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.18	59	338	5.172	ug/l #	73
16) Acetone	4.12	43	4057	22.363	ug/l #	85
19) Methyl tert-butyl Ether	5.42	73	4953	3.956	ug/l #	1
25) 2-Butanone	7.17	43	1032	4.857	ug/l #	89
31) Cyclohexane	7.94	56	3120	2.163	ug/l #	59
36) 1,1-Dichloropropene	7.95	75	6501	4.561	ug/l #	50
37) Ethyl Acetate	7.17	43	1032	2.098	ug/l #	68
38) Carbon Tetrachloride	7.95	117	9038	5.385	ug/l #	14
39) Methylcyclohexane	9.34	83	6417	3.623	ug/l #	82
40) Benzene	8.32	78	4744	1.247	ug/l	99
43) Isopropyl Acetate	8.41	43	2767	2.808	ug/l #	49
48) Methyl methacrylate	9.48	41	1197	2.434	ug/l #	24
51) 4-Methyl-2-Pentanone	10.25	43	2055	4.413	ug/l #	76
52) Toluene	10.39	92	39556	15.502	ug/l	100
55) 1,1,2-Trichloroethane	10.76	97	3724	5.200	ug/l #	22
59) 2-Hexanone	10.93	43	2400	7.328	ug/l #	26
73) Isopropylbenzene	12.47	105	27041	5.491	ug/l	100
74) N-amyl acetate	12.26	43	1399	1.640	ug/l #	59
76) 1,2,3-Trichloropropane	12.62	75	30095	59.761	ug/l #	100
78) n-propylbenzene	12.81	91	24582	4.288	ug/l	100
79) 2-Chlorotoluene	12.81	91	24582	7.360	ug/l #	41
81) trans-1,4-Dichloro-2-buten	12.62	75	30095	125.443	ug/l #	9
82) 4-Chlorotoluene	12.81	91	24582	6.913	ug/l #	42
90) Hexachloroethane	14.10	117	2842	3.466	ug/l #	13

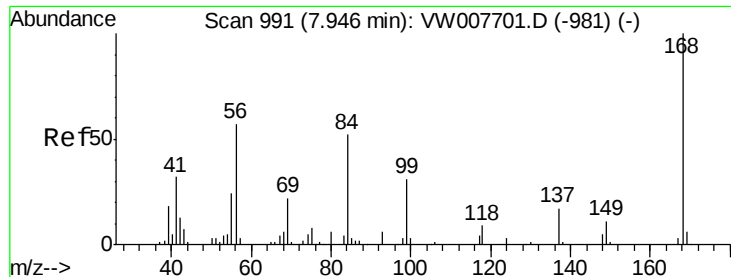
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 06:30:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

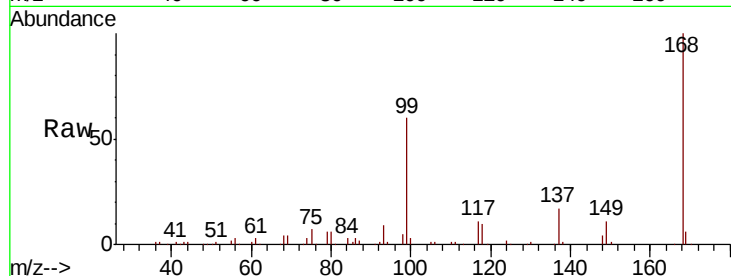
ClientSampleId :

Tot Ion:168 Resp: 88389

Ion Ratio Lower Upper

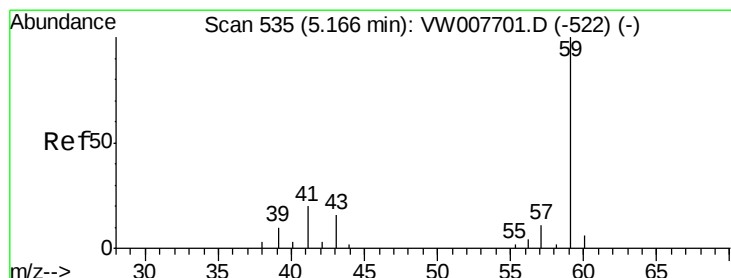
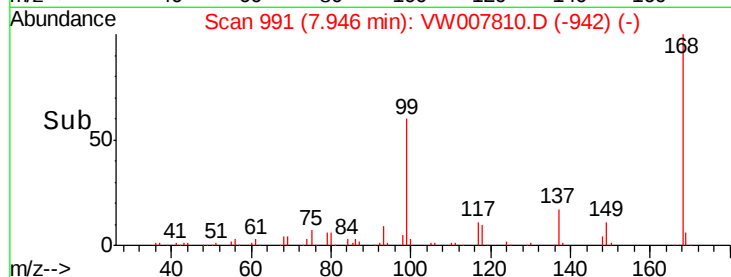
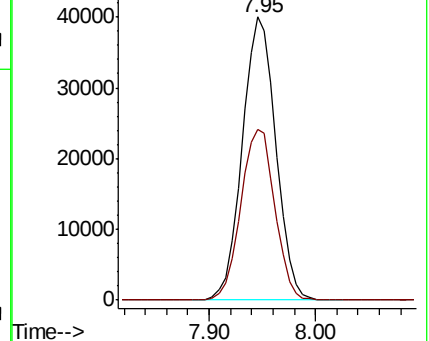
168 100

99 60.2 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 5.172 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW007810.D

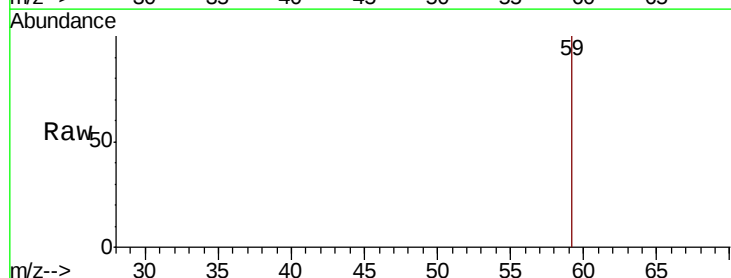
Acq: 21 Dec 2018 22:00

Tgt Ion: 59 Resp: 338

Ion Ratio Lower Upper

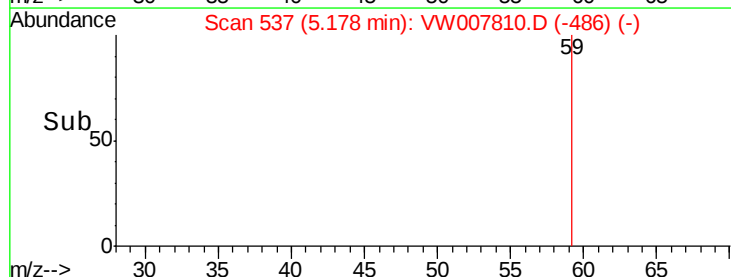
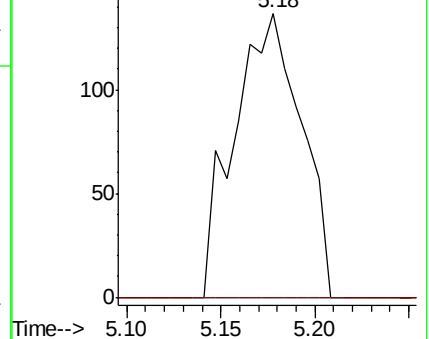
59 100

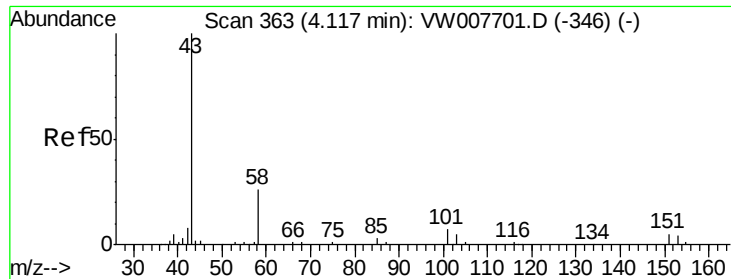
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 22.363 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

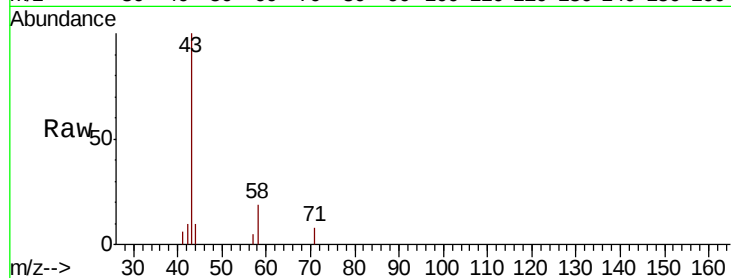
ClientSampleId :

Tot Ion: 43 Resp: 4057

Ion Ratio Lower Upper

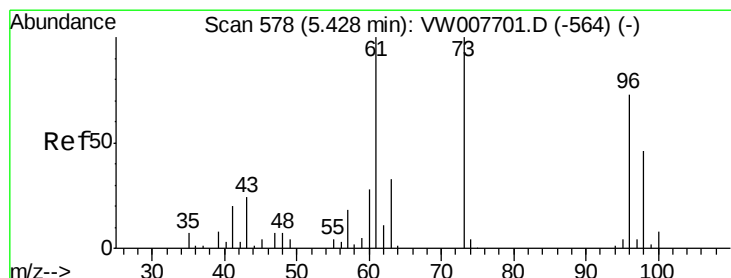
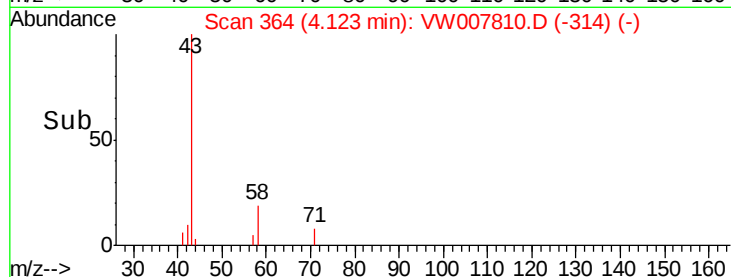
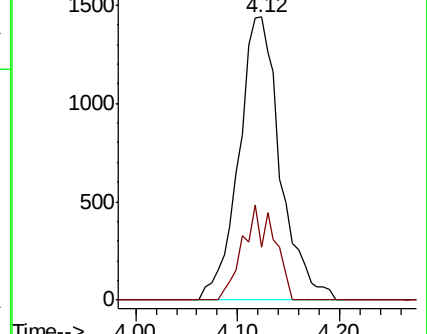
43 100

58 18.8 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#19

Methyl tert-butyl Ether

Concen: 3.956 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW007810.D

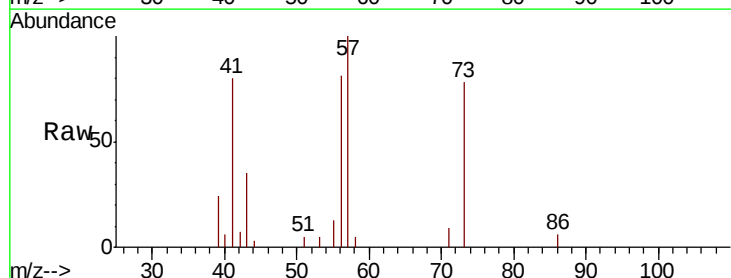
Acq: 21 Dec 2018 22:00

Tgt Ion: 73 Resp: 4953

Ion Ratio Lower Upper

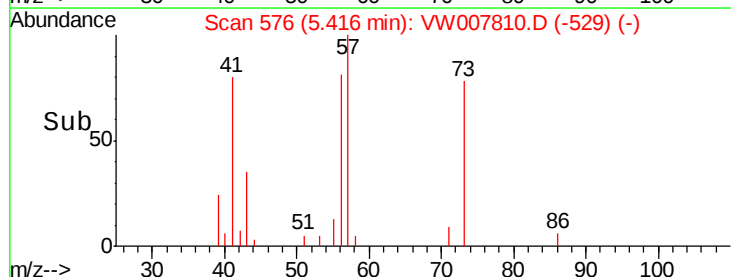
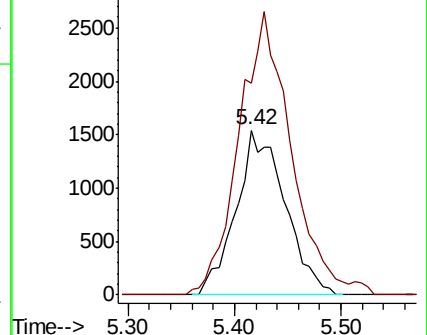
73 100

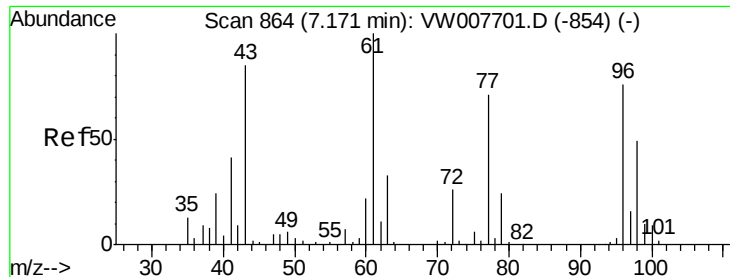
57 124.9 14.7 22.1#



Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 57.00 (56.70 to 57.70): VW

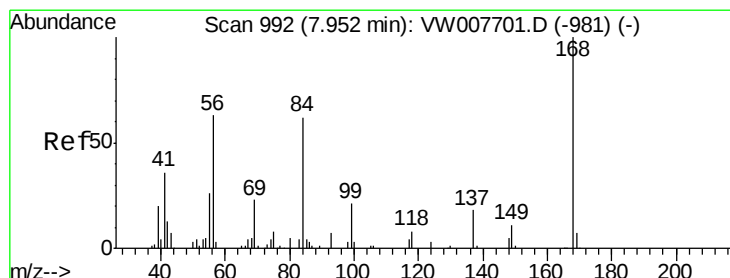
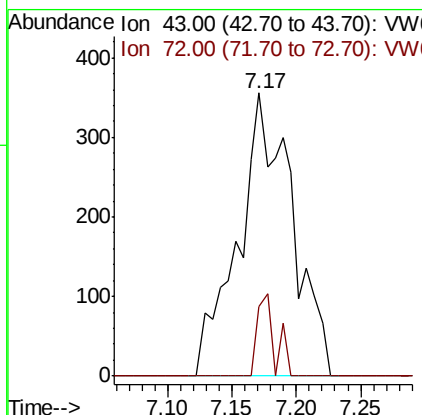
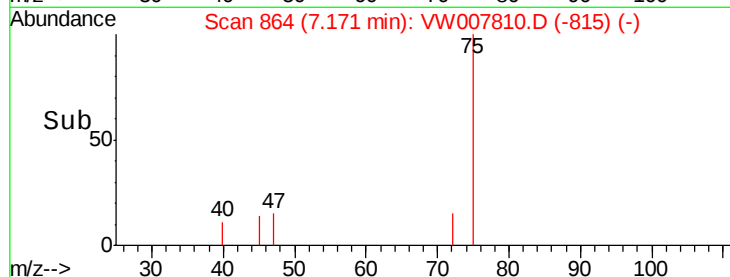
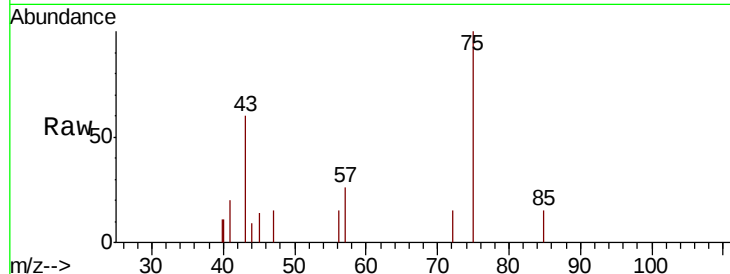




#25
2-Butanone
Concen: 4.857 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

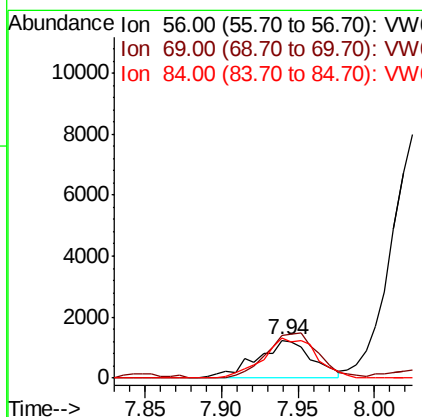
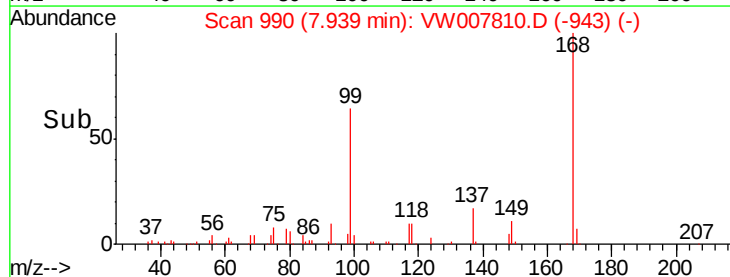
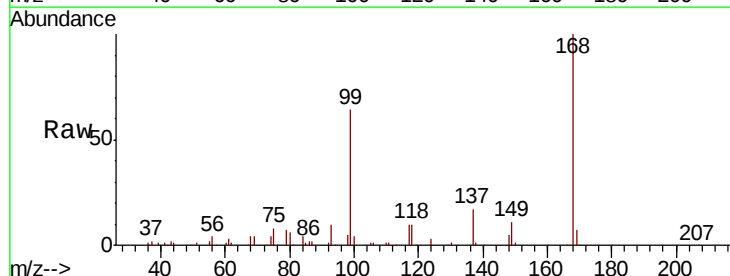
Instrument :
MSVOA_W
ClientSampled :

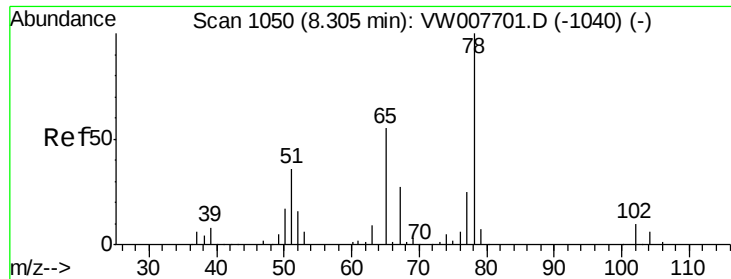
Tot Ion: 43 Resp: 1032
Ion Ratio Lower Upper
43 100
72 24.4 24.5 36.7#



#31
Cyclohexane
Concen: 2.163 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

Tgt Ion: 56 Resp: 3120
Ion Ratio Lower Upper
56 100
69 113.3 29.7 44.5#
84 106.8 78.9 118.3

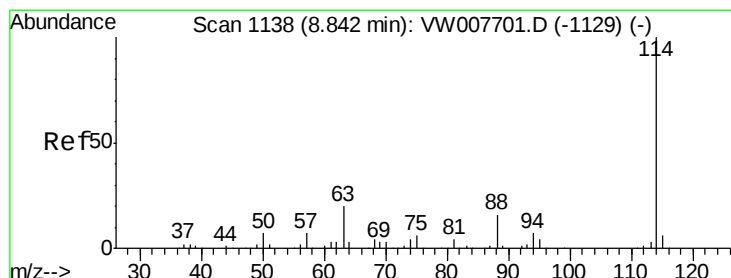
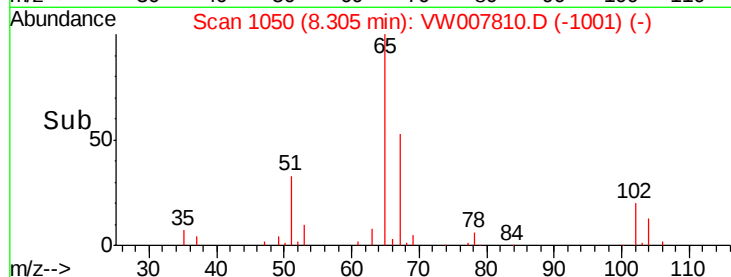
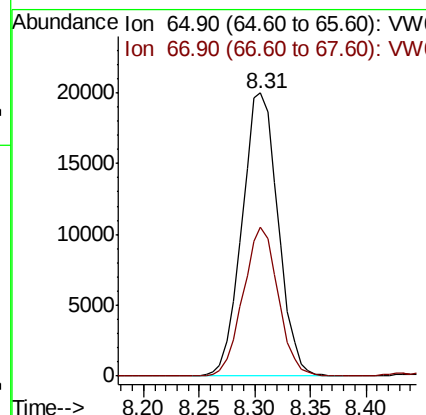
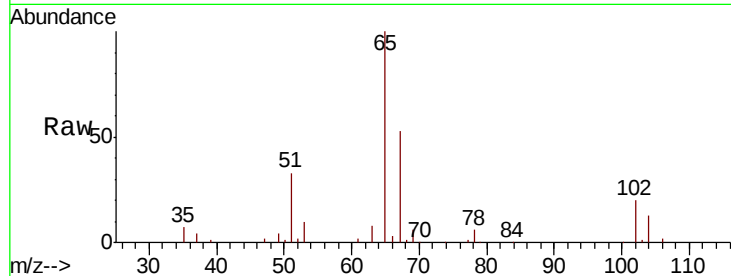




#33
 1,2-Dichloroethane-d4
 Concen: 46.354 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007810.D
 Acq: 21 Dec 2018 22:00

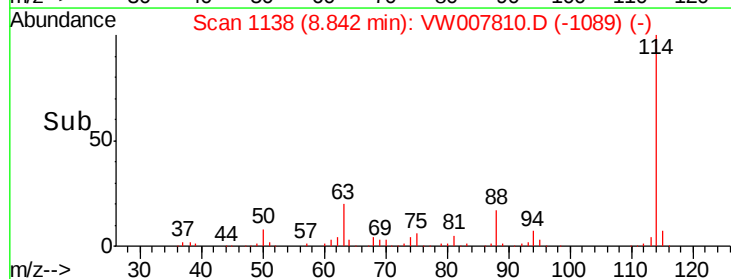
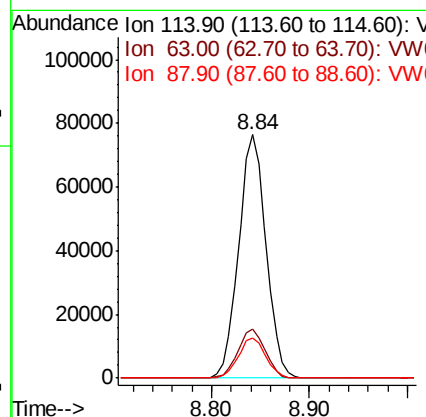
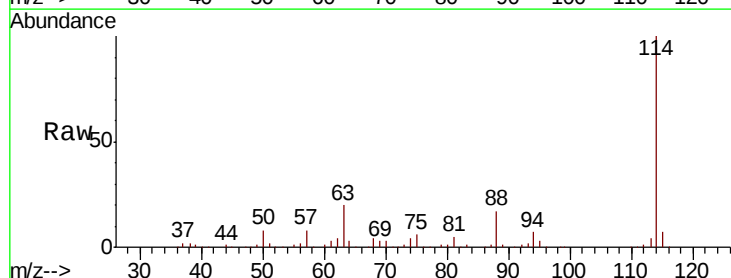
Instrument :
 MSVOA_W
 ClientSampleId :

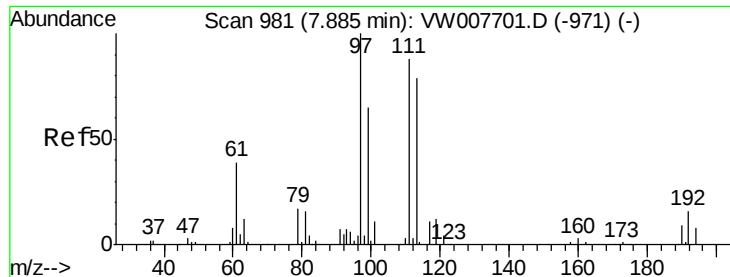
Tot Ion: 65 Resp: 44907
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007810.D
 Acq: 21 Dec 2018 22:00

Tgt Ion: 114 Resp: 147664
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 16.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 44.424 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :
MSVOA_W
ClientSampleId :

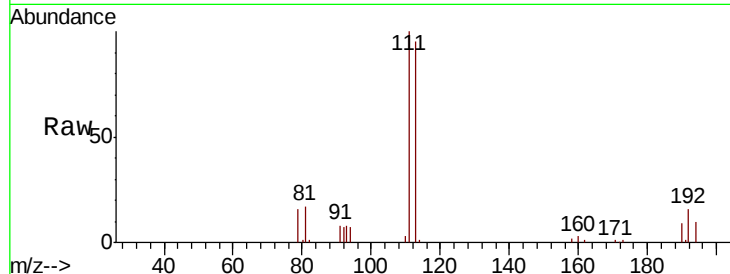
Tot Ion:113 Resp: 40018

Ion Ratio Lower Upper

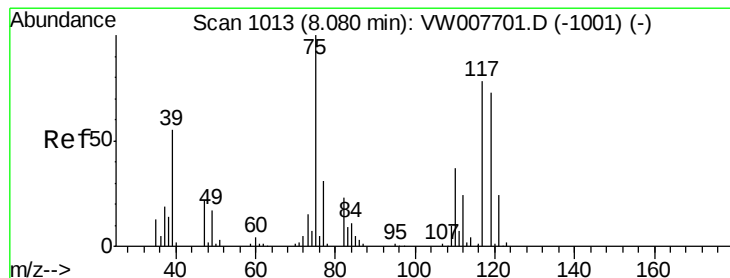
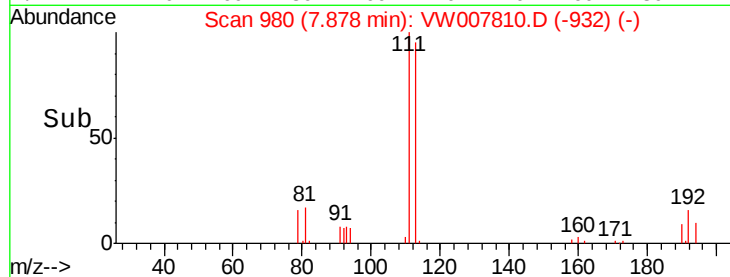
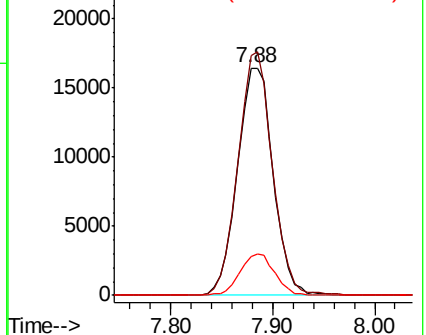
113 100

111 102.9 82.6 124.0

192 17.6 15.5 23.3



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: 4.561 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.13 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

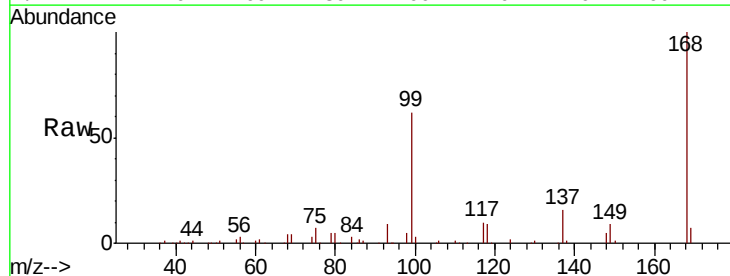
Tgt Ion: 75 Resp: 6501

Ion Ratio Lower Upper

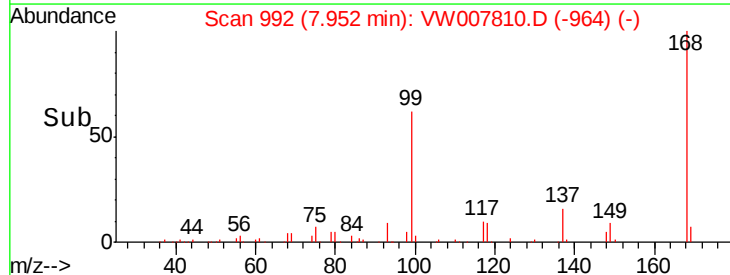
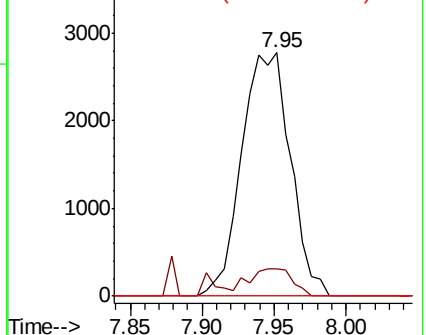
75 100

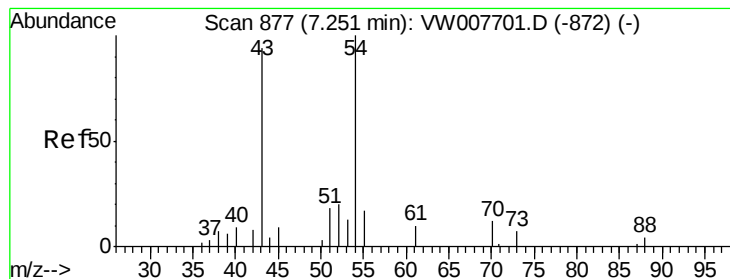
110 10.2 18.6 55.8#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 2.098 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.08 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

ClientSampleId :

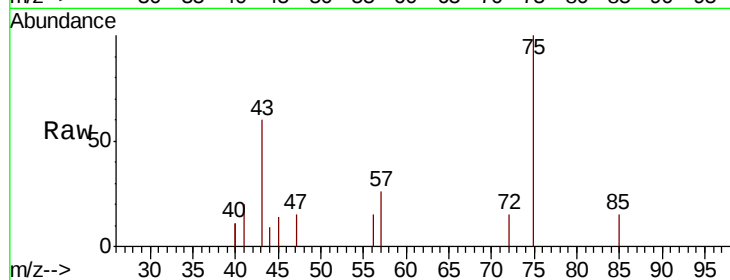
Tot Ion: 43 Resp: 1032

Ion Ratio Lower Upper

43 100

61 0.0 11.2 16.8#

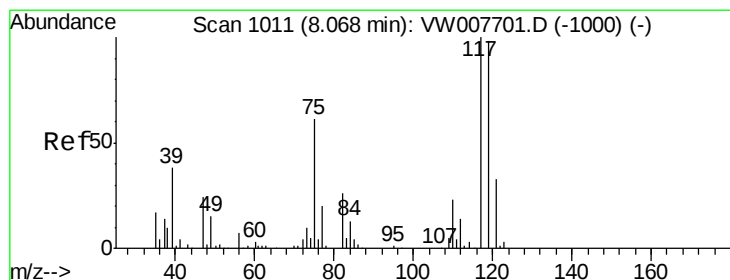
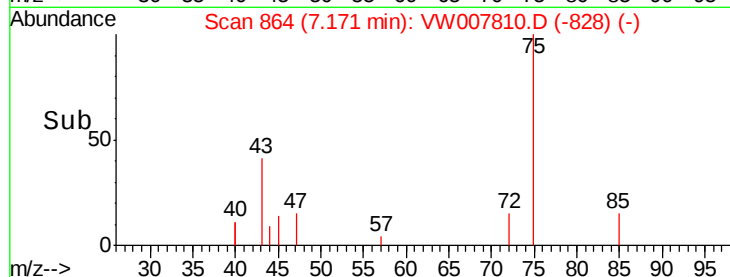
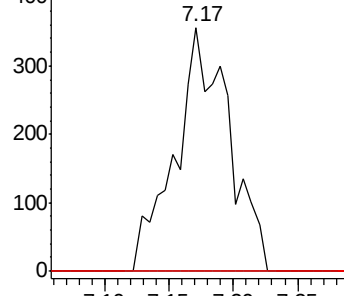
70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 5.385 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

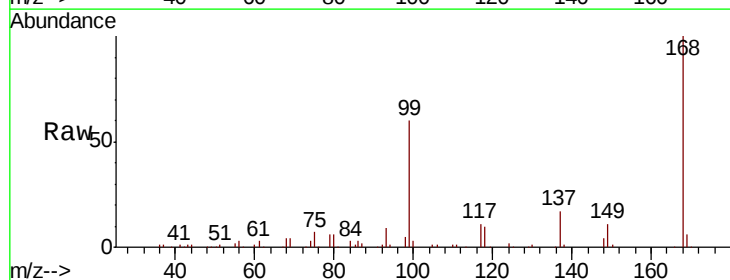
Tgt Ion: 117 Resp: 9038

Ion Ratio Lower Upper

117 100

119 4.0 78.2 117.2#

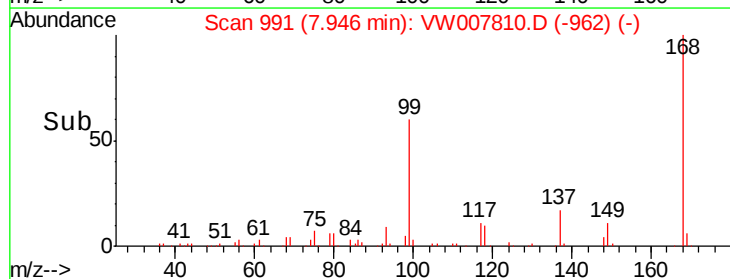
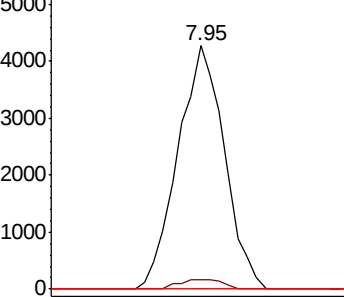
121 0.0 26.1 39.1#

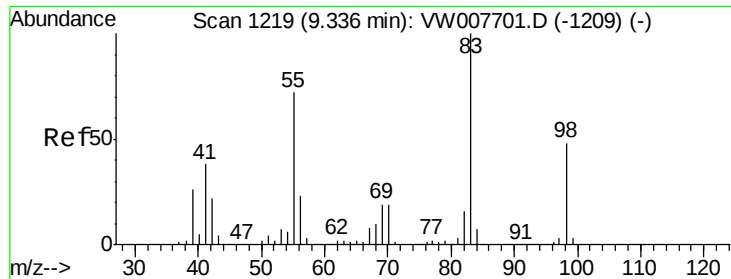


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

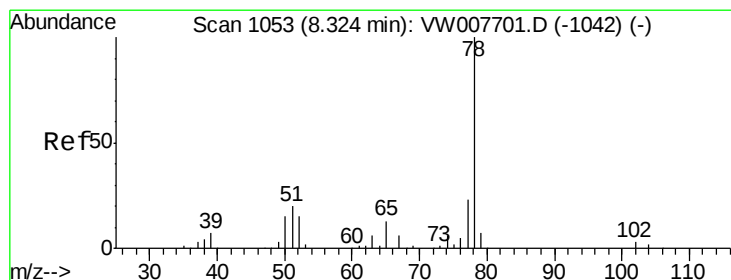
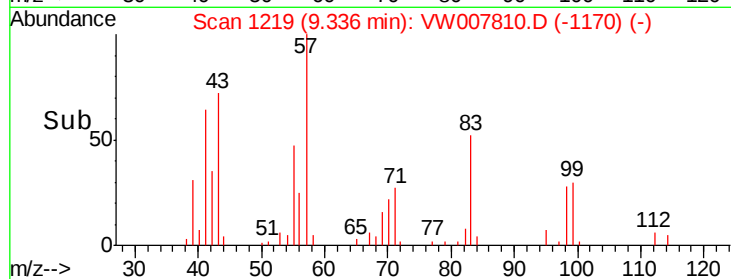
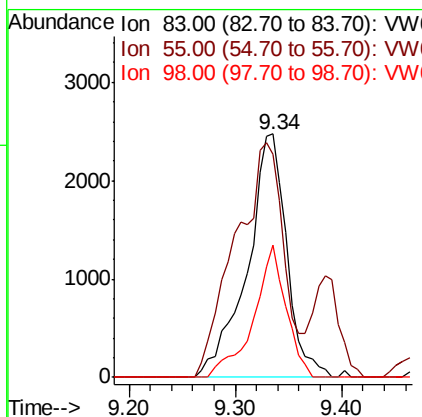
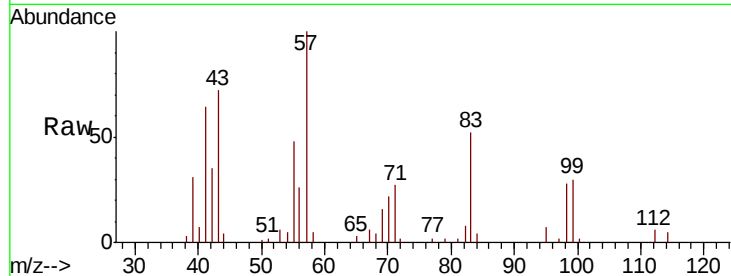




#39
Methvlcvclohexane
Concen: 3.623 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

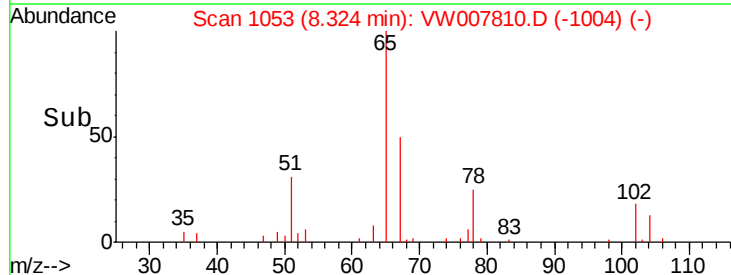
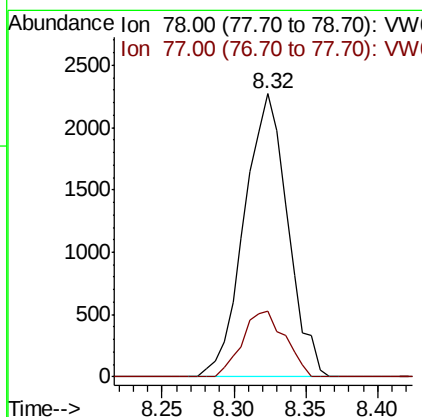
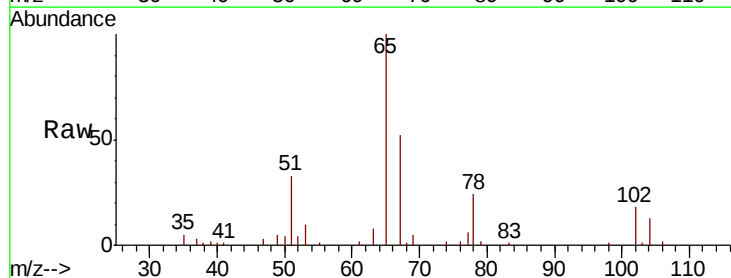
Instrument :
MSVOA_W
ClientSampleId :

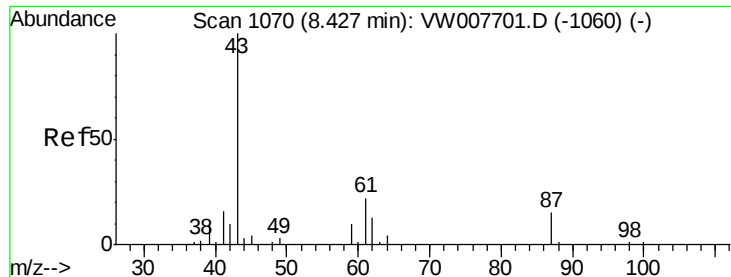
Tot Ion: 83 Resp: 6417
Ion Ratio Lower Upper
83 100
55 91.6 57.2 85.8#
98 54.6 38.6 58.0



#40
Benzene
Concen: 1.247 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

Tgt Ion: 78 Resp: 4744
Ion Ratio Lower Upper
78 100
77 23.0 18.7 28.1





#43

Isopropyl Acetate

Concen: 2.808 ug/l

RT: 8.41 min Scan# 1068

Delta R.T. -0.01 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

ClientSampleId :

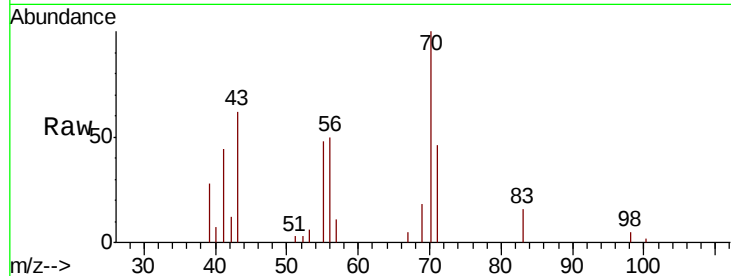
Tot Ion: 43 Resp: 2767

Ion Ratio Lower Upper

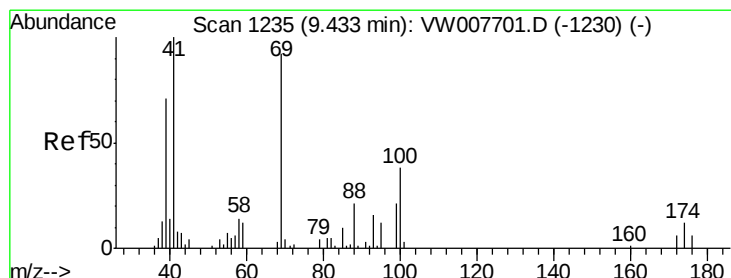
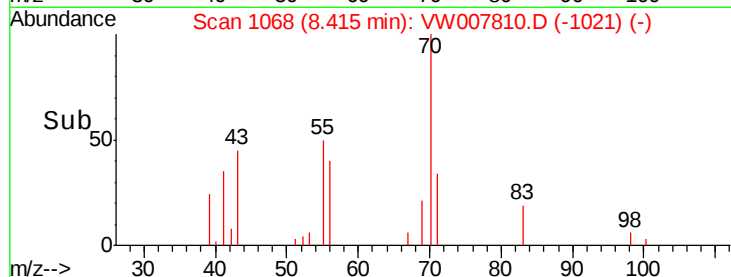
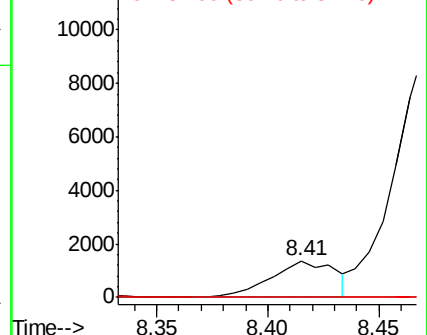
43 100

61 0.0 26.3 39.5#

87 0.0 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 87.00 (86.70 to 87.70): VW



#48

Methyl methacrylate

Concen: 2.434 ug/l

RT: 9.48 min Scan# 1242

Delta R.T. 0.04 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

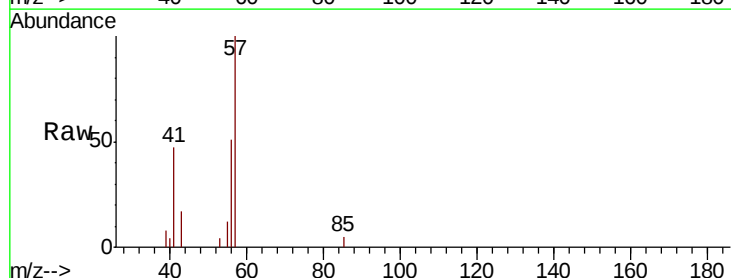
Tgt Ion: 41 Resp: 1197

Ion Ratio Lower Upper

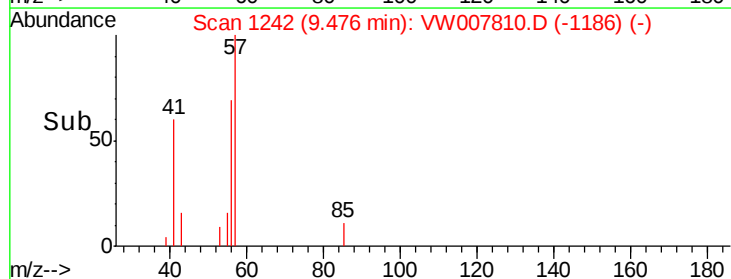
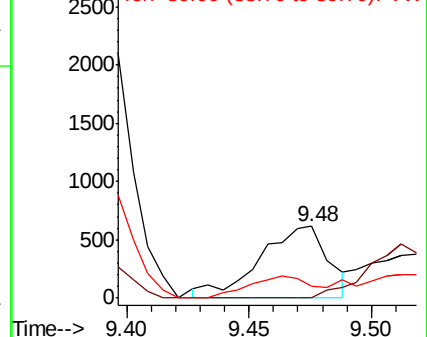
41 100

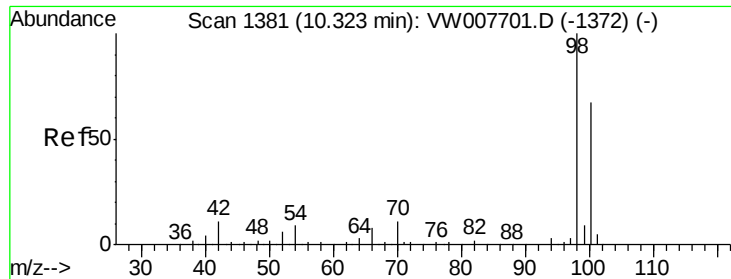
69 0.0 74.2 111.2#

39 29.6 53.9 80.9#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

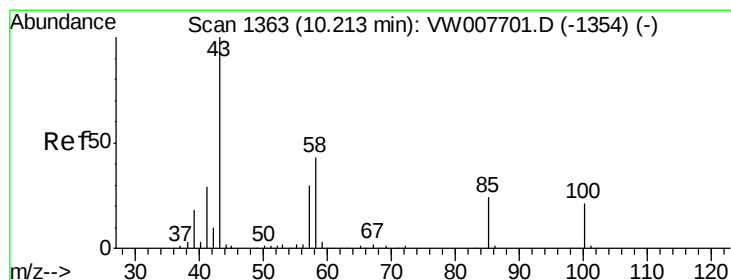
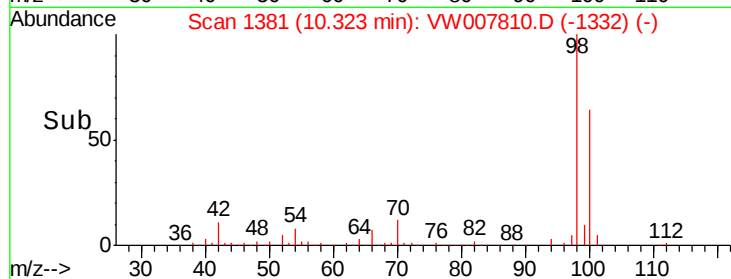
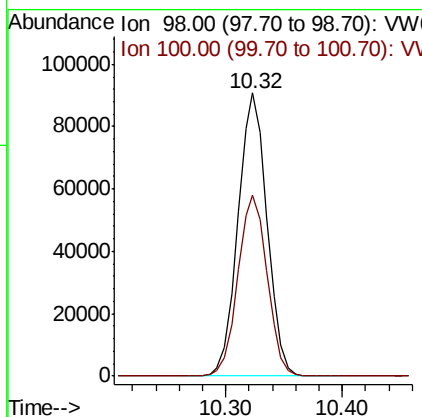
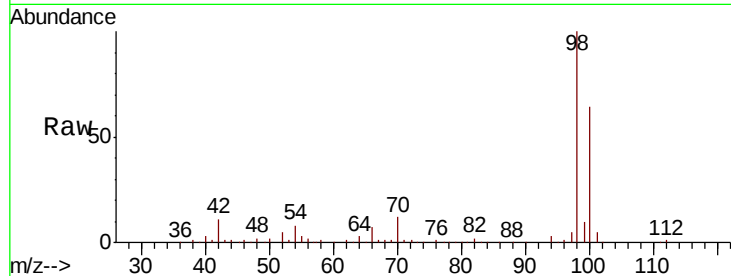




#50
Toluene-d8
Concen: 46.382 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

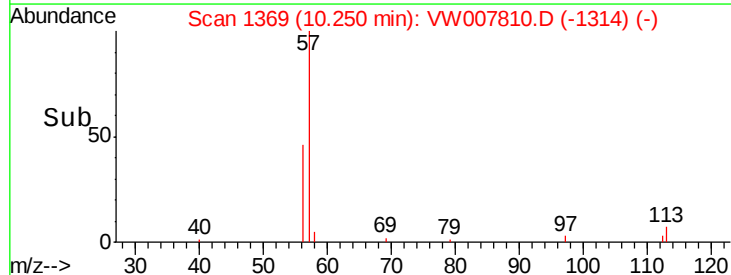
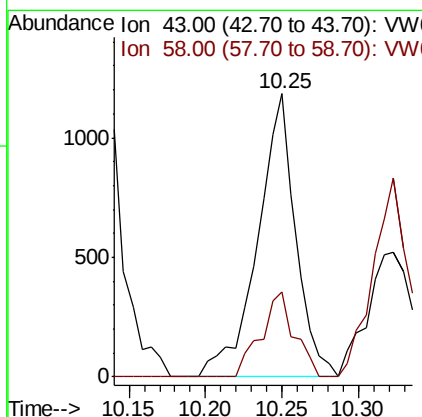
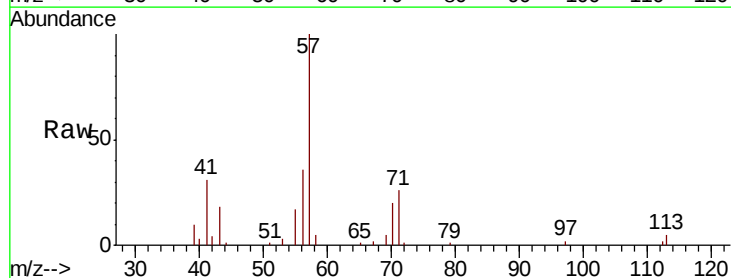
Instrument :
MSVOA_W
ClientSampled :

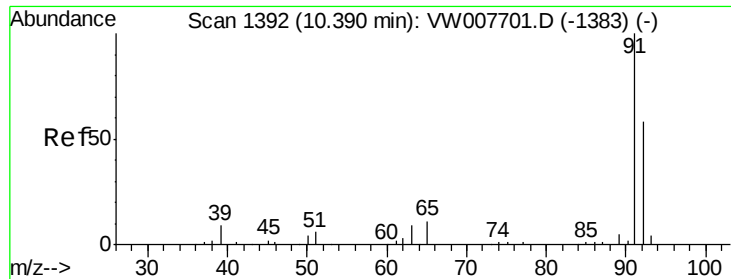
Tot Ion: 98 Resp: 157514
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 4.413 ug/l
RT: 10.25 min Scan# 1369
Delta R.T. 0.04 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

Tgt Ion: 43 Resp: 2055
Ion Ratio Lower Upper
43 100
58 26.6 33.2 49.8#





#52

Toluene

Concen: 15.502 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

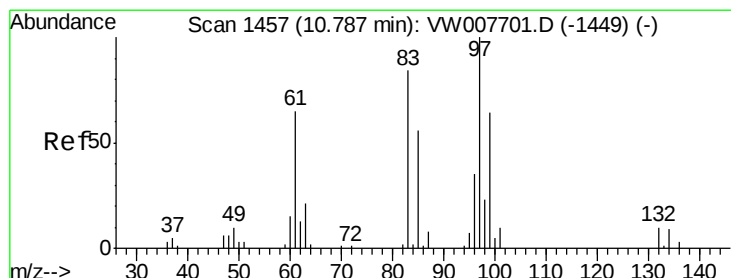
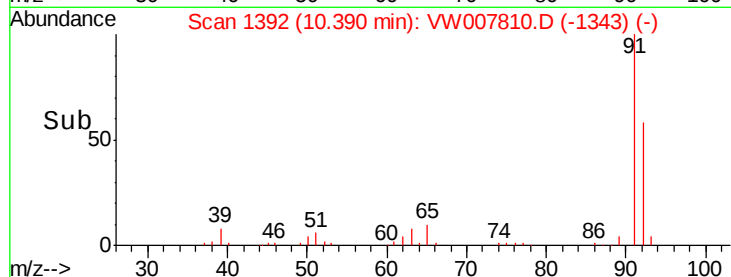
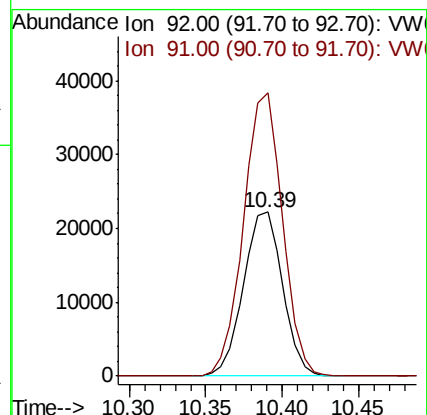
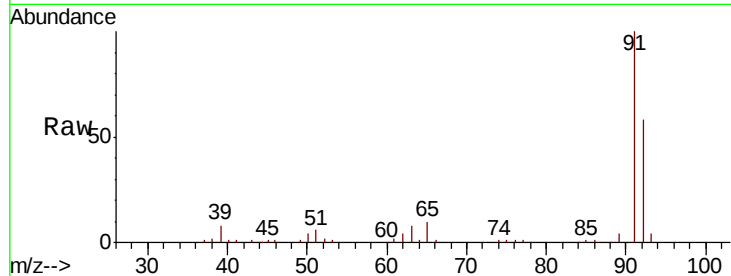
ClientSampled :

Tot Ion: 92 Resp: 39556

Ion Ratio Lower Upper

92 100

91 171.6 137.0 205.4



#55

1,1,2-Trichloroethane

Concen: 5.200 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Tgt Ion: 97 Resp: 3724

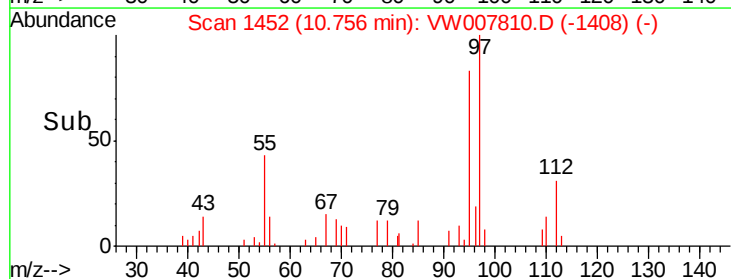
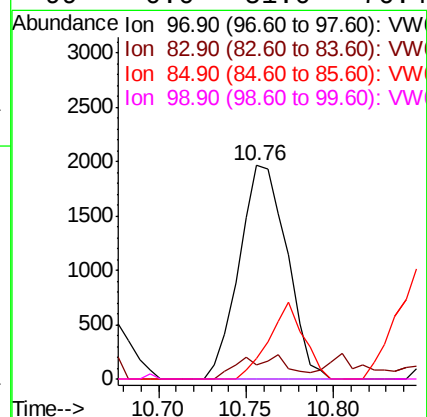
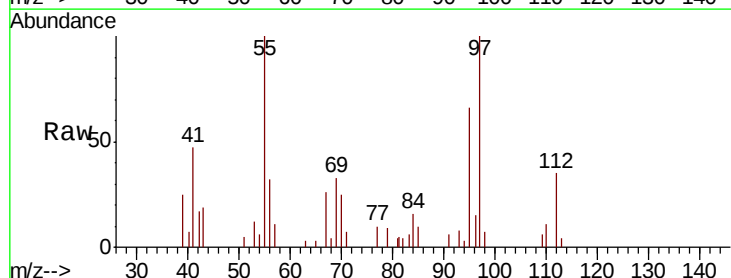
Ion Ratio Lower Upper

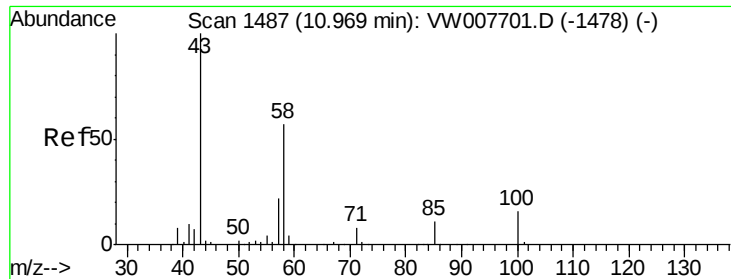
97 100

83 6.4 67.5 101.3#

85 9.9 44.8 67.2#

99 0.0 51.0 76.4#





#59

2-Hexanone

Concen: 7.328 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

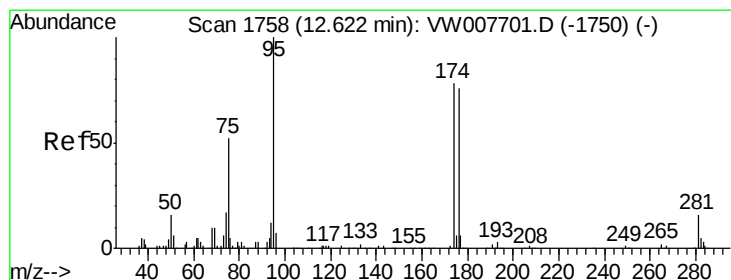
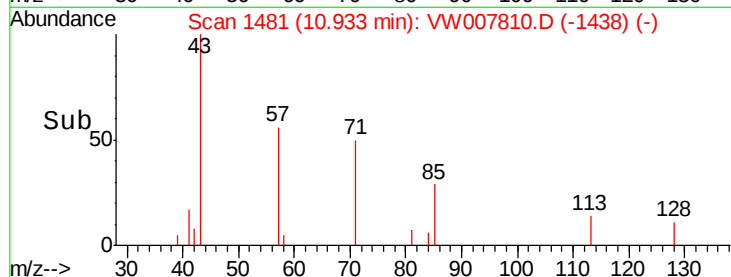
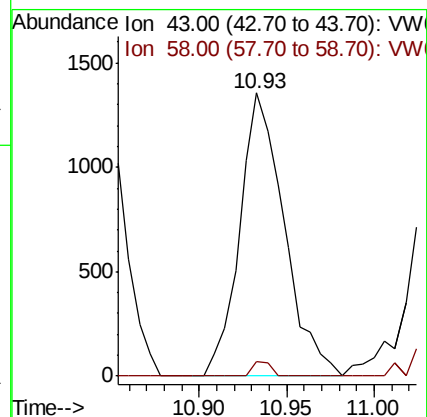
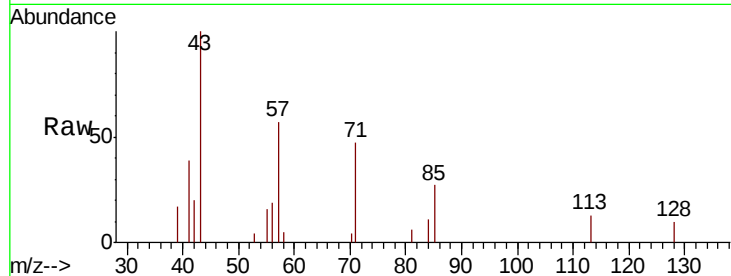
ClientSampled :

Tot Ion: 43 Resp: 2400

Ion Ratio Lower Upper

43 100

58 2.0 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 46.388 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

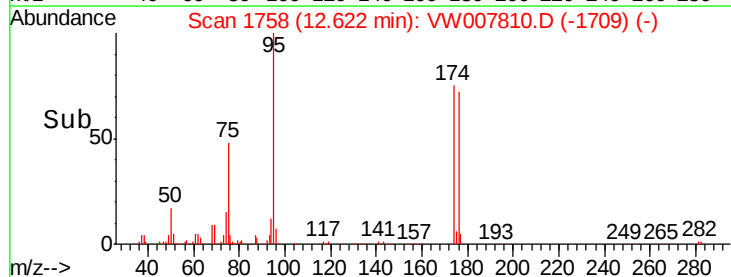
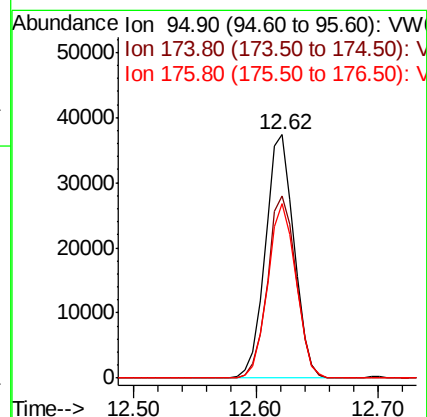
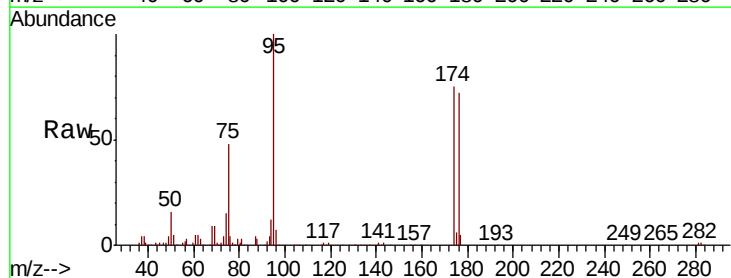
Tgt Ion: 95 Resp: 60858

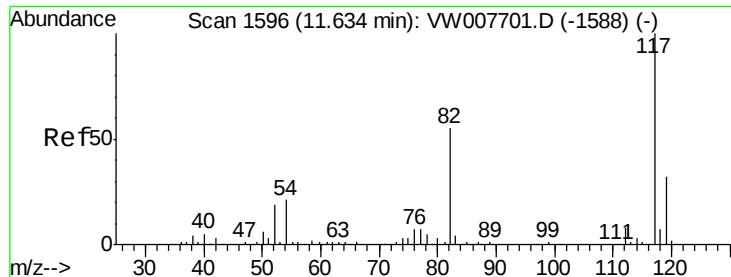
Ion Ratio Lower Upper

95 100

174 75.0 0.0 152.2

176 71.1 0.0 146.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

ClientSampleId :

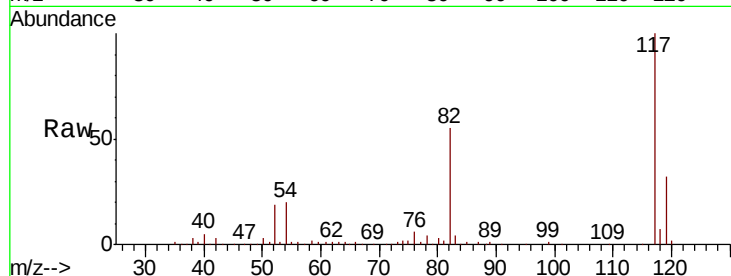
Tot Ion:117 Resp: 133121

Ion Ratio Lower Upper

117 100

82 54.7 44.3 66.5

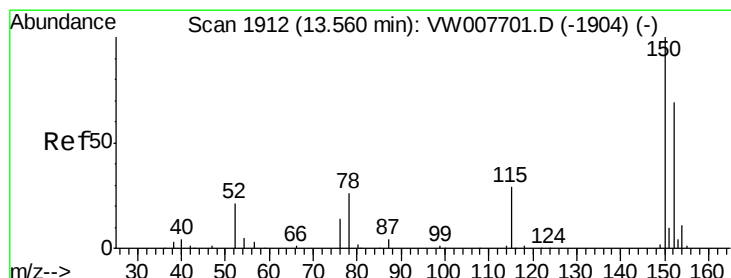
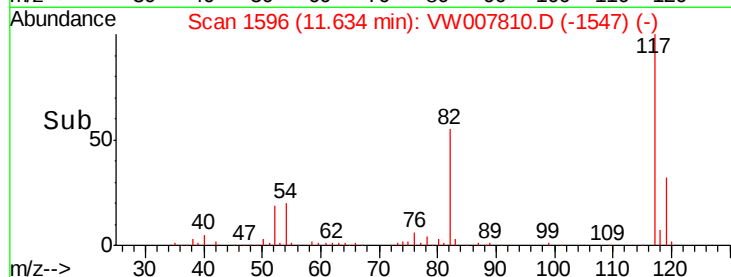
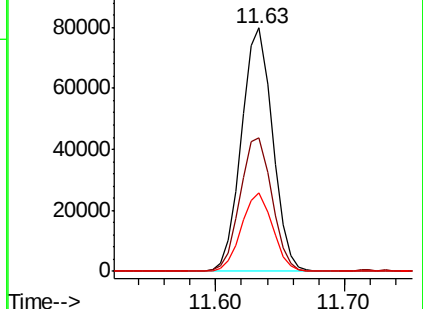
119 32.4 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

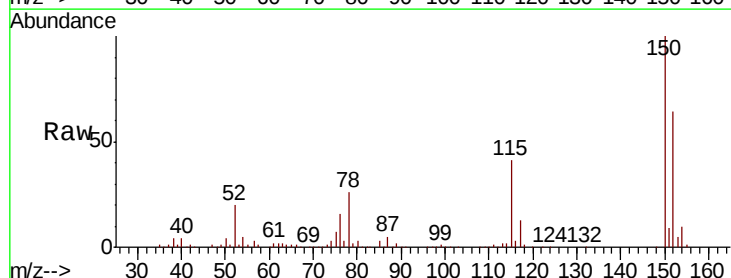
Tgt Ion:152 Resp: 65155

Ion Ratio Lower Upper

152 100

115 63.9 31.8 95.4

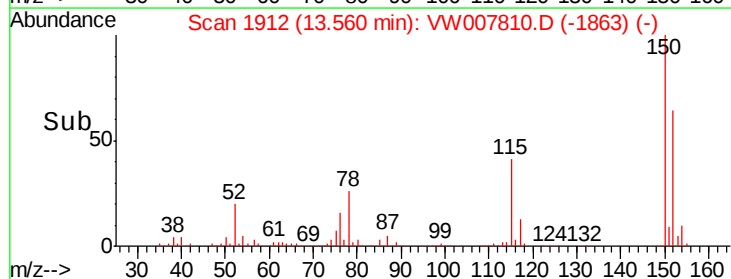
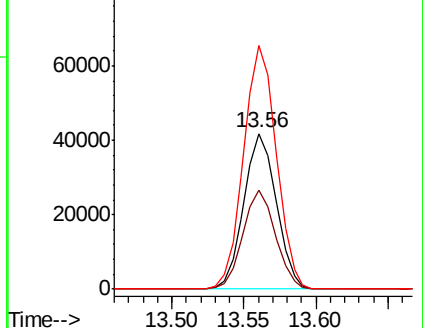
150 157.9 0.0 350.8

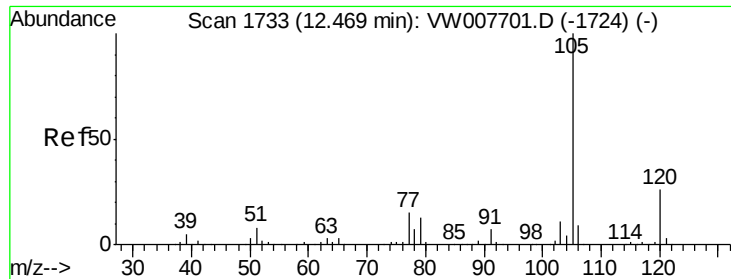


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.491 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Instrument :

MSVOA_W

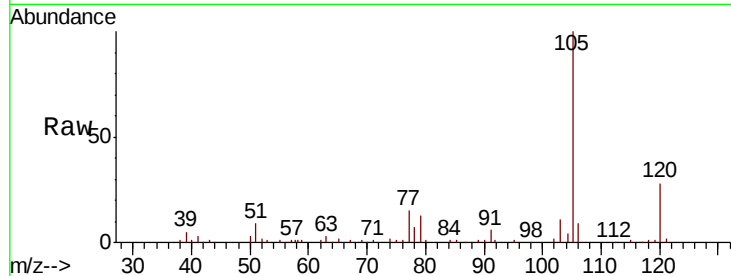
ClientSampled :

Tot Ion:105 Resp: 27041

Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

20000

15000

10000

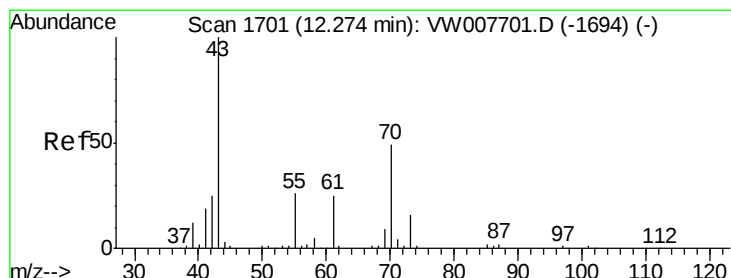
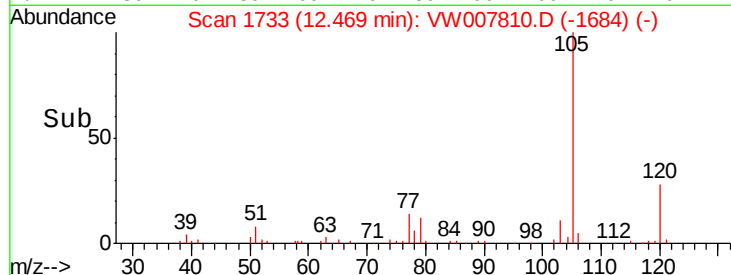
5000

0

Time-->

12.40 12.45 12.50

12.47



#74

N-ethyl acetate

Concen: 1.640 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW007810.D

Acq: 21 Dec 2018 22:00

Tgt Ion: 43 Resp: 1399

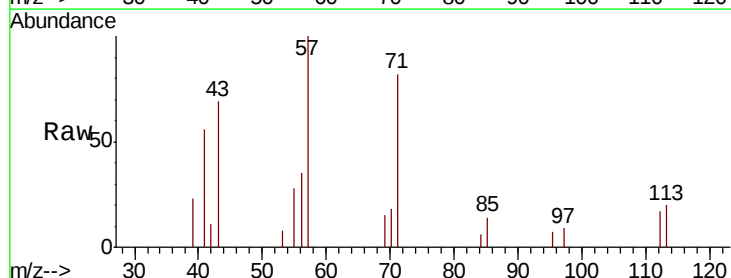
Ion Ratio Lower Upper

43 100

70 14.9 37.6 56.4#

55 17.0 21.7 32.5#

61 0.0 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

1000

800

600

400

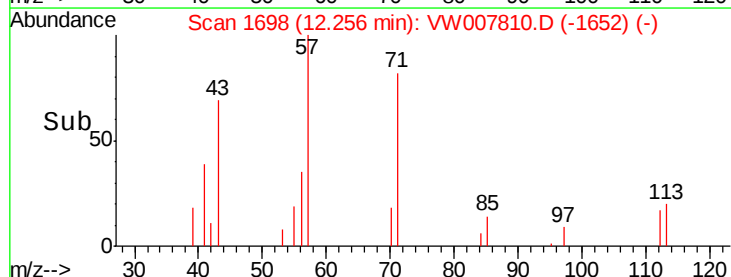
200

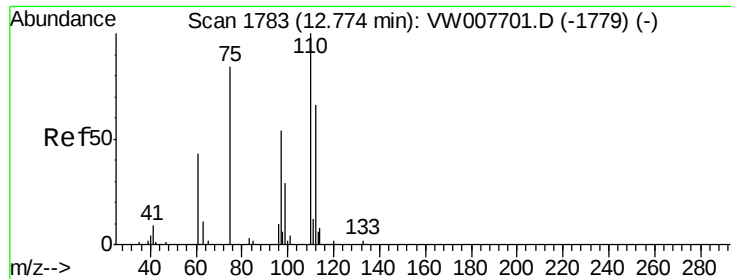
0

Time-->

12.20 12.25 12.30

12.26

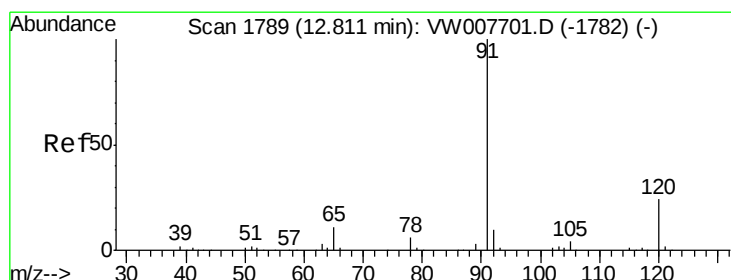
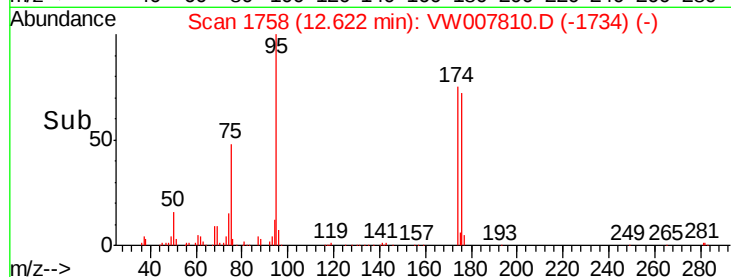
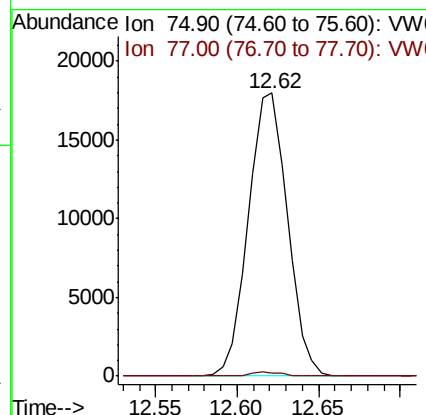
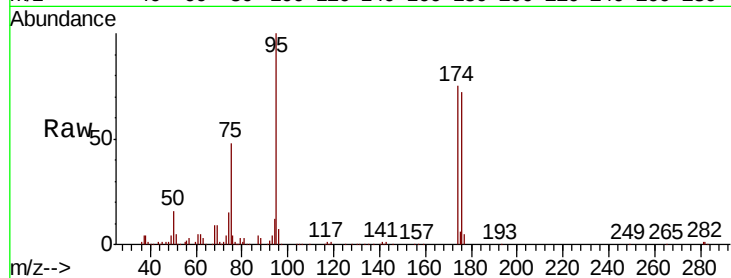




#76
 1,2,3-Trichloropropane
 Concen: 59.761 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW007810.D
 Acq: 21 Dec 2018 22:00

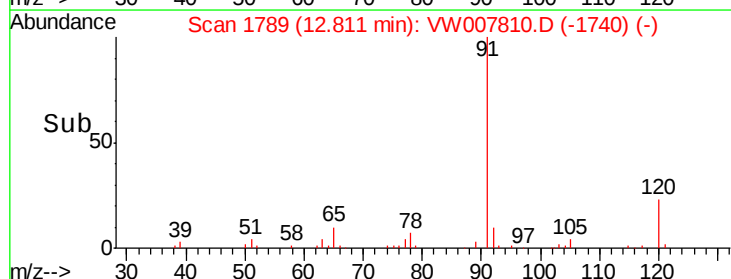
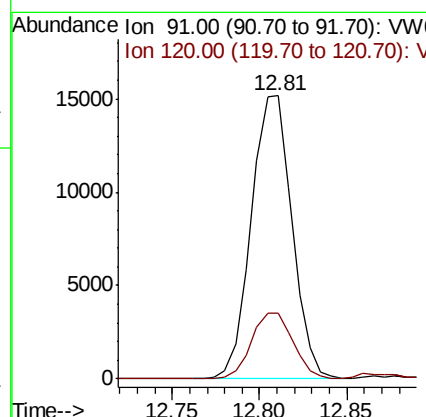
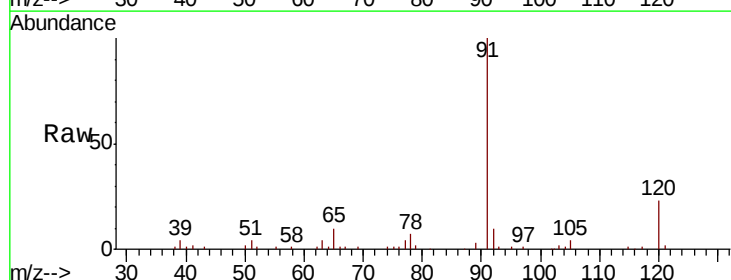
Instrument :
 MSVOA_W
 ClientSampled :

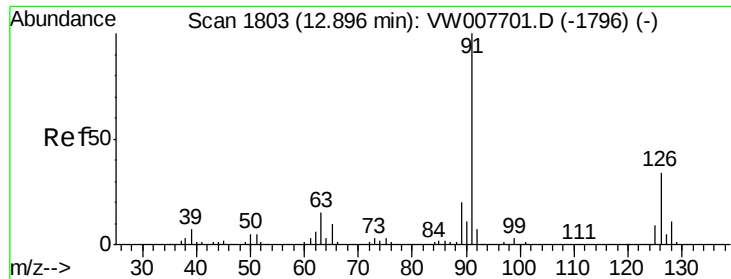
Tot Ion: 75 Resp: 30095
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#78
 n-propylbenzene
 Concen: 4.288 ug/l
 RT: 12.81 min Scan# 1789
 Delta R.T. -0.00 min
 Lab File: VW007810.D
 Acq: 21 Dec 2018 22:00

Tgt Ion: 91 Resp: 24582
 Ion Ratio Lower Upper
 91 100
 120 24.0 11.9 35.7

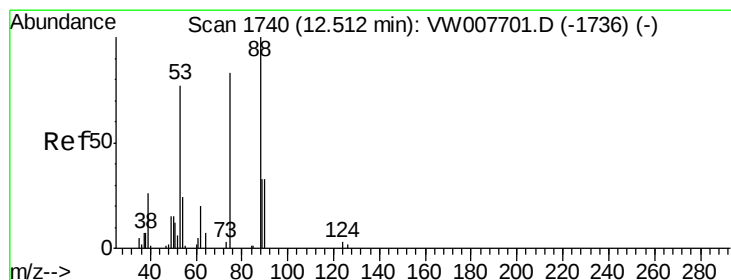
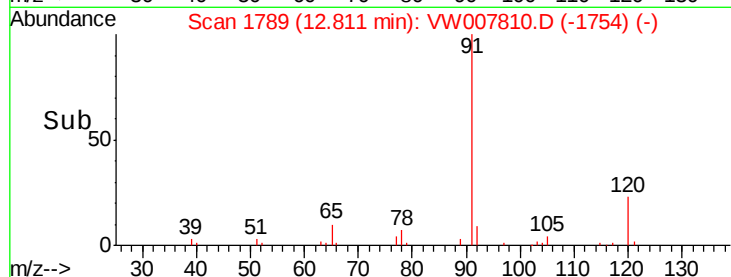
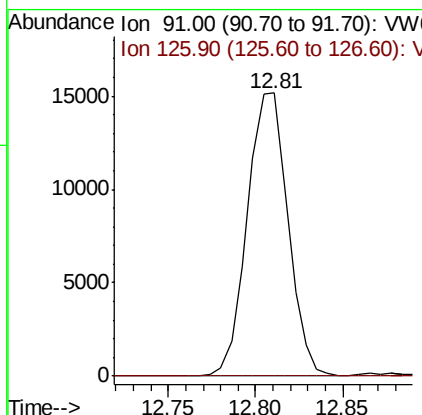
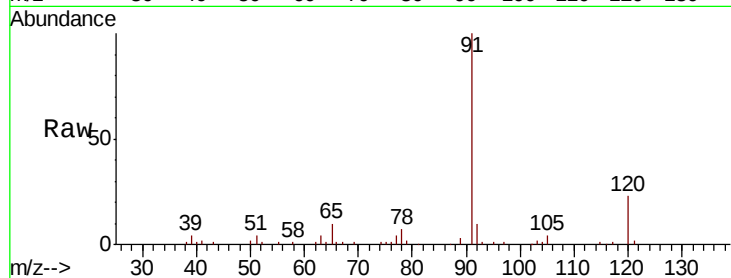




#79
 2-Chlorotoluene
 Concen: 7.360 ug/l
 RT: 12.81 min Scan# 1789
 Delta R.T. -0.09 min
 Lab File: VW007810.D
 Acq: 21 Dec 2018 22:00

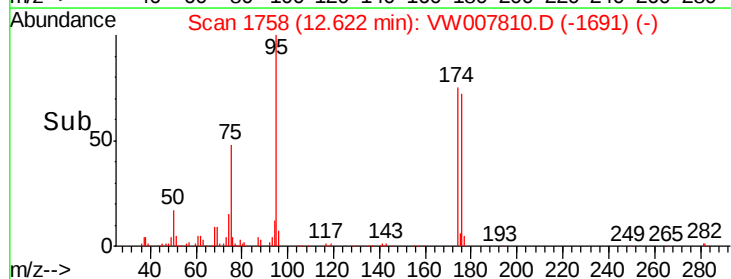
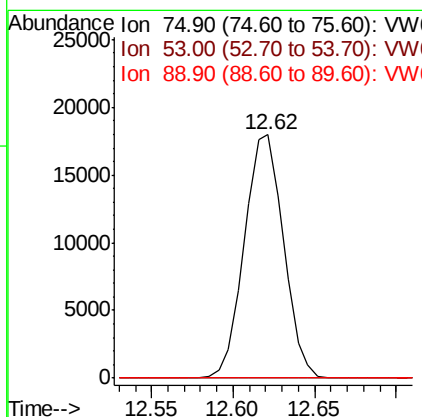
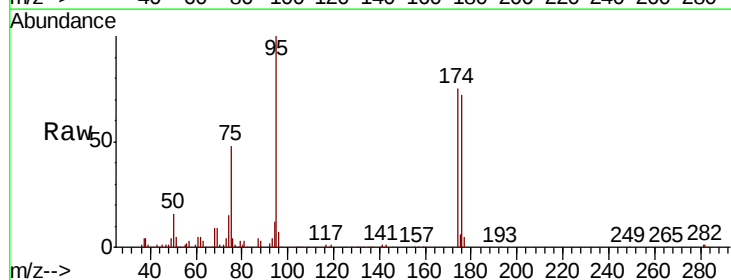
Instrument :
 MSVOA_W
 ClientSampleId :

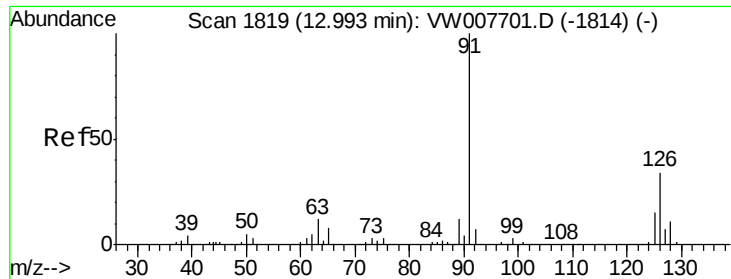
Tot Ion: 91 Resp: 24582
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.0 51.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 125.443 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW007810.D
 Acq: 21 Dec 2018 22:00

Tgt Ion: 75 Resp: 30095
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.2 120.2#
 89 0.0 39.2 58.8#

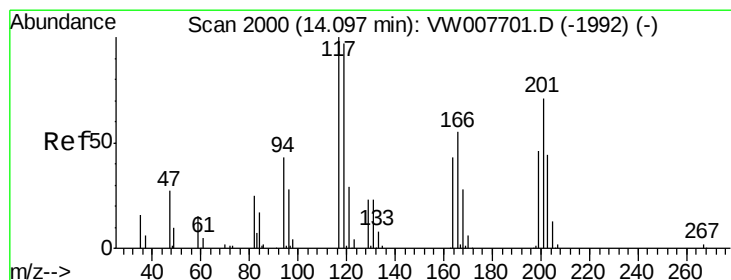
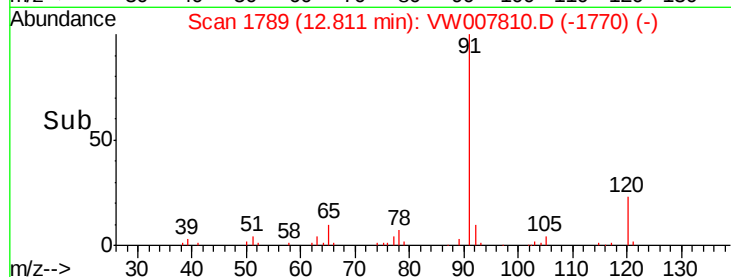
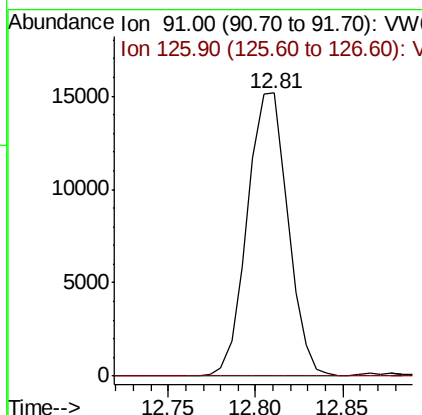
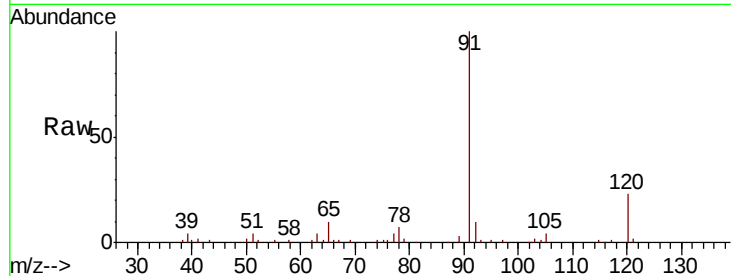




#82
4-Chlorotoluene
Concen: 6.913 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.18 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 91 Resp: 24582
Ion Ratio Lower Upper
91 100
126 0.0 16.5 49.5#



#90
Hexachloroethane
Concen: 3.466 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW007810.D
Acq: 21 Dec 2018 22:00

Tgt Ion: 117 Resp: 2842
Ion Ratio Lower Upper
117 100
201 0.0 36.2 108.6#

