

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122218\
 Data File : VW007752.D
 Acq On : 20 Dec 2018 17:32
 Operator : SY/AP
 Sample : J6392-12
 Misc : 6.41G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 21 03:53:13 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	7.99	168	45032	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.87	114	85212	50.00	ug/l	0.03
63) Chlorobenzene-d5	11.64	117	73409	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	21727	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	33657	68.19	ug/l	0.01
Spiked Amount			Recovery	=	136.38%	
35) Dibromofluoromethane	7.91	113	41819	80.45	ug/l	0.02
Spiked Amount			Recovery	=	160.90%	
50) Toluene-d8	10.39	98	446965	228.08	ug/l	0.07
Spiked Amount			Recovery	=	456.16%	
62) 4-Bromofluorobenzene	12.63	95	288264	380.76	ug/l	0.01
Spiked Amount			Recovery	=	761.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	318	1.294	ug/l #	43
11) Tert butyl alcohol	5.19	59	3653	109.715	ug/l #	73
13) Acrolein	3.86	56	2899	108.897	ug/l #	1
14) Allyl chloride	4.79	41	27171	46.635	ug/l #	70
15) Acrylonitrile	5.48	53	241094	2832.401	ug/l #	39
16) Acetone	4.12	43	166222	1798.436	ug/l #	61
17) Carbon Disulfide	4.40	76	2039	1.483	ug/l #	75
19) Methyl tert-butyl Ether	5.44	73	55218	86.570	ug/l #	1
20) Methylene Chloride	4.79	84	14359	28.333	ug/l #	21
23) Vinyl Acetate	6.46	43	18457	28.476	ug/l #	70
24) 1,1-Dichloroethane	6.31	63	27977	34.859	ug/l #	81
26) 2,2-Dichloropropane	7.03	77	64858	110.435	ug/l #	53
28) Bromochloromethane	7.73	49	19760	72.212	ug/l #	1
29) Tetrahydrofuran	7.54	42	5799	89.804	ug/l #	27
30) Chloroform	7.65	83	647093	712.450	ug/l #	18
31) Cyclohexane	7.99	56	3535893	4812.450	ug/l #	68
36) 1,1-Dichloropropene	7.97	75	7514	9.136	ug/l #	42
37) Ethyl Acetate	7.54	43	28170	99.247	ug/l #	56
38) Carbon Tetrachloride	7.98	117	2731	2.820	ug/l #	16
39) Methylcyclohexane	9.37	83	9485459	9281.445	ug/l #	77
40) Benzene	8.35	78	4410983	2009.841	ug/l	100
41) Methacrylonitrile	7.54	41	59985	372.231	ug/l #	45
42) 1,2-Dichloroethane	8.36	62	33173	45.104	ug/l #	1
43) Isopropyl Acetate	8.52	43	16081954	28280.591	ug/l #	49
45) 1,2-Dichloropropane	9.36	63	195478	401.409	ug/l #	1
46) Dibromomethane	9.37	93	18289	61.010	ug/l #	1
47) Bromodichloromethane	9.65	83	654608	830.639	ug/l #	72
48) Methyl methacrylate	9.40	41	14335386	50503.845	ug/l #	9
49) 1,4-Dioxane	9.39	88	133	27.984	ug/l #	1
51) 4-Methyl-2-Pentanone	10.16	43	19456767	72398.346	ug/l #	39
53) t-1,3-Dichloropropene	10.44	75	765772	976.907	ug/l #	1
54) cis-1,3-Dichloropropene	9.88	75	4031	4.656	ug/l #	1
55) 1,1,2-Trichloroethane	10.80	97	3618799	8756.670	ug/l #	27
56) Ethyl methacrylate	10.71	69	425058	870.535	ug/l #	61

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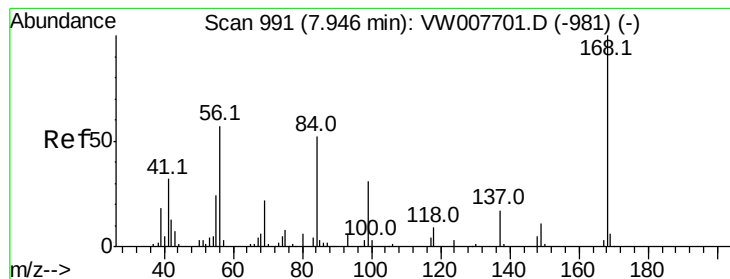
Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 21 03:53:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) 2-Chloroethyl Vinyl ether	9.91	63	265683	1191.770	ug/l #	42
59) 2-Hexanone	10.97	43	2675213	14154.498	ug/l #	29
60) Dibromochloromethane	11.07	129	23877	43.636	ug/l	56
61) 1,2-Dibromoethane	11.24	107	13543	32.361	ug/l #	1
65) Chlorobenzene	11.49	112	482875	303.908	ug/l #	70
68) m/p-Xylenes	11.80	106	29978578	28344.354	ug/l #	1
69) o-Xylene	12.24	106	30486121	30750.051	ug/l #	1
70) Styrene	12.22	104	1927090	1182.487	ug/l #	1
73) Isopropylbenzene	12.48	105	20880025	12713.745	ug/l	91
74) N-amyl acetate	12.28	43	1572595	5528.086	ug/l #	32
75) 1,1,2,2-Tetrachloroethane	12.69	83	171069	694.727	ug/l #	88
76) 1,2,3-Trichloropropane	12.83	75	263694	1570.267	ug/l #	100
77) Bromobenzene	12.76	156	3886	10.325	ug/l #	1
78) n-propylbenzene	12.98	91	2670436	1396.843	ug/l #	1
79) 2-Chlorotoluene	12.98	91	2670436	2397.816	ug/l #	41
80) 1,3,5-Trimethylbenzene	13.12	105	22204272	15674.139	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.49	75	310438	3880.393	ug/l #	53
82) 4-Chlorotoluene	12.98	91	2670436	2251.969	ug/l #	42
83) tert-Butylbenzene	13.27	119	7561491	6083.388	ug/l #	77
84) 1,2,4-Trimethylbenzene	13.12	105	22204272	15533.472	ug/l	98
85) sec-Butylbenzene	13.40	105	2206415	1288.009	ug/l #	48
86) p-Isopropyltoluene	13.52	119	15246840	9788.087	ug/l	96
89) n-Butylbenzene	13.83	91	2558873	1791.662	ug/l #	79
90) Hexachloroethane	14.10	117	574939	2102.384	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.50	75	3802	75.185	ug/l #	9
95) Naphthalene	15.37	128	1425910	1660.594	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 998

Delta R.T. 0.04 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

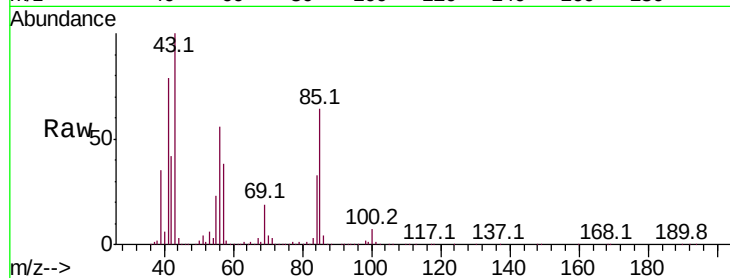
ClientSampleId :

Tot Ion:168 Resp: 45032

Ion Ratio Lower Upper

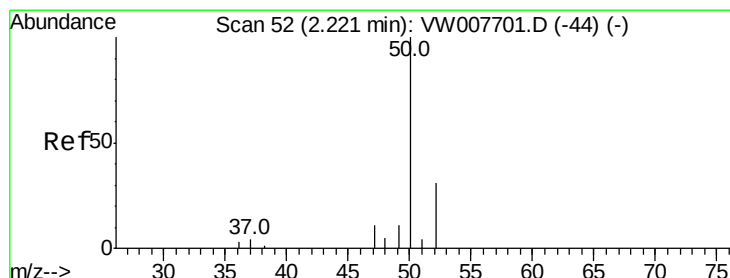
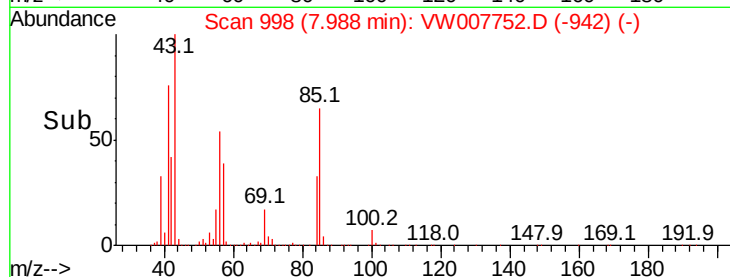
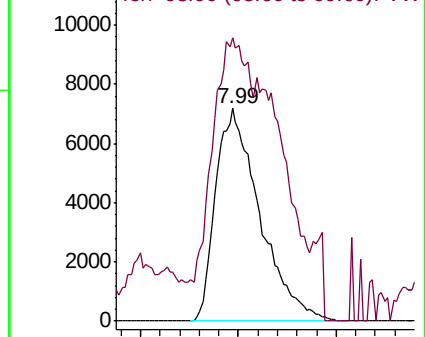
168 100

99 133.2 54.0 81.0#



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.294 ug/l

RT: 2.20 min Scan# 49

Delta R.T. -0.02 min

Lab File: VW007752.D

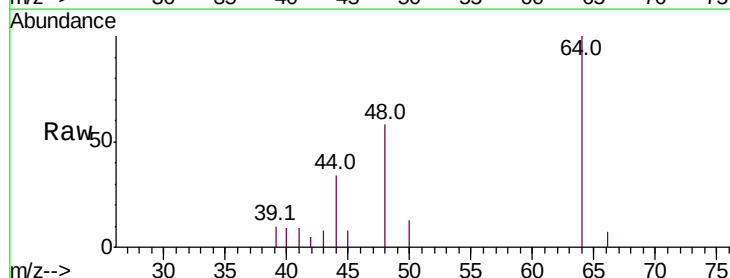
Acq: 20 Dec 2018 17:32

Tgt Ion: 50 Resp: 318

Ion Ratio Lower Upper

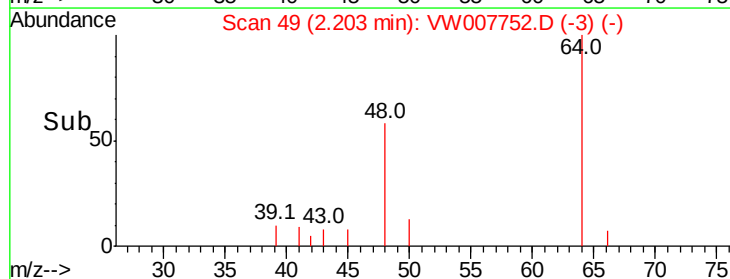
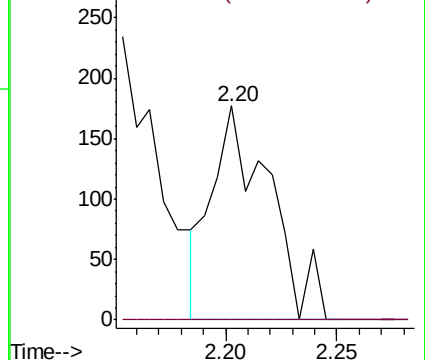
50 100

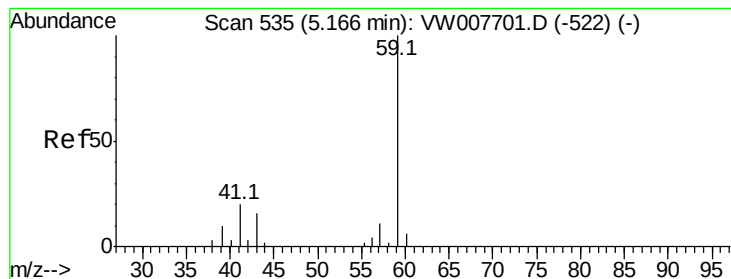
52 0.0 25.1 37.7#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



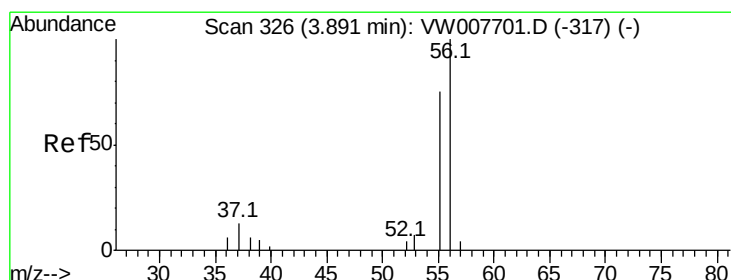
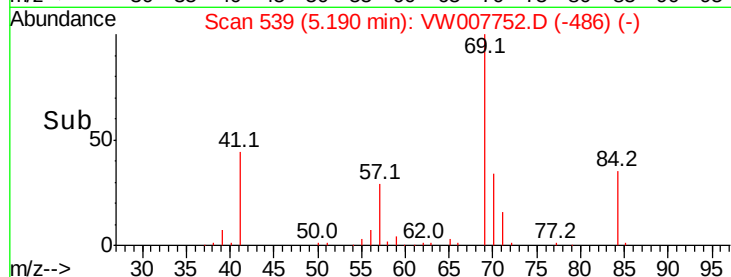
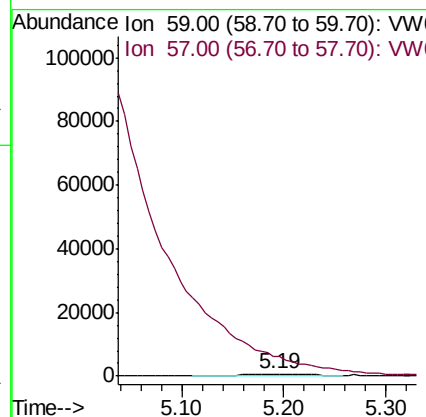
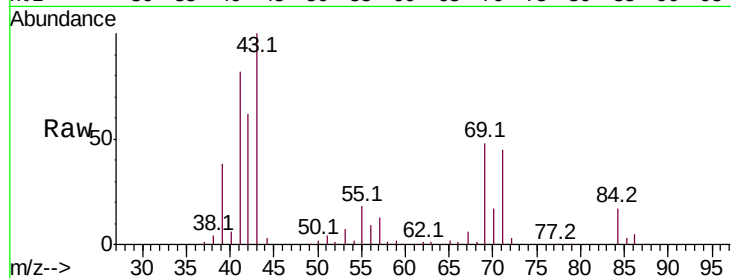


#11

Tert butyl alcohol
Concen: 109.715 ug/l
RT: 5.19 min Scan# 539
Delta R.T. 0.02 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

Instrument :
MSVOA_W
ClientSampled :

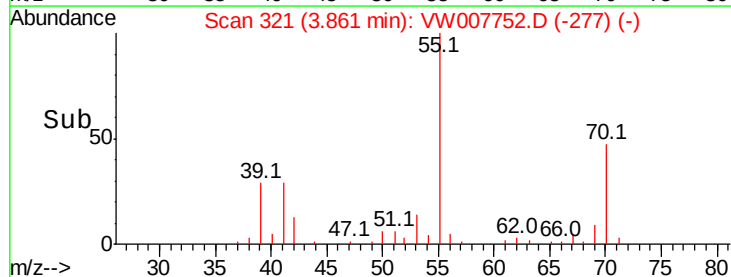
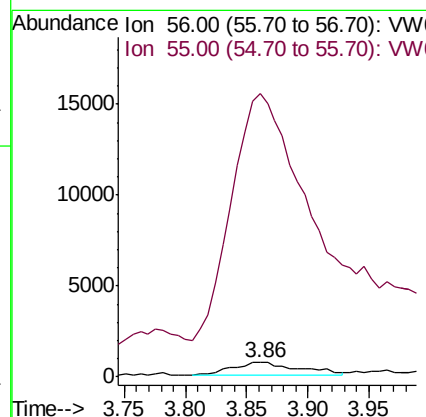
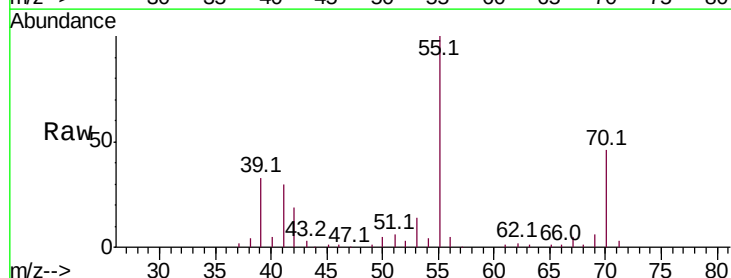
Tot Ion: 59 Resp: 3653
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

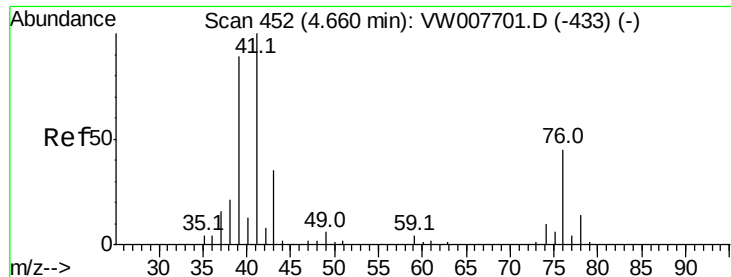


#13

Acrolein
Concen: 108.897 ug/l
RT: 3.86 min Scan# 321
Delta R.T. -0.03 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

Tgt Ion: 56 Resp: 2899
Ion Ratio Lower Upper
56 100
55 2837.8 57.7 86.5#





#14

Allvl chloride

Concen: 46.635 ug/l

RT: 4.79 min Scan# 473

Delta R.T. 0.13 min

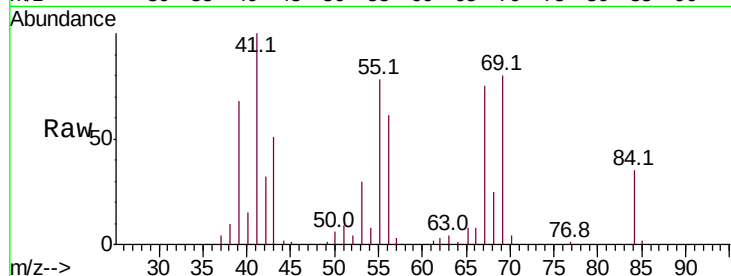
Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

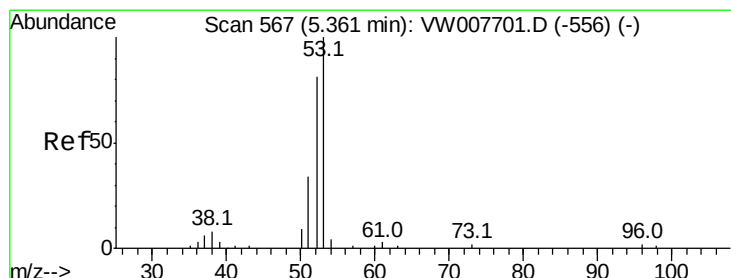
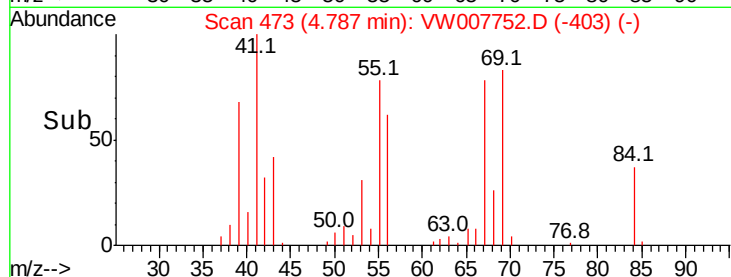
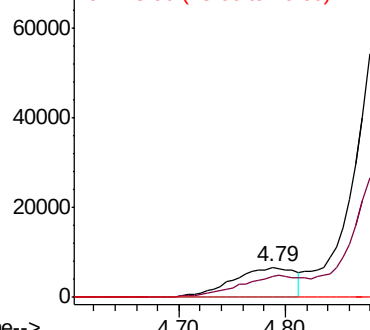
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 41 Resp: 27171

Ion	Ratio	Lower	Upper
41	100		
39	76.3	69.5	104.3
76	0.0	34.8	52.2#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 75.90 (75.60 to 76.60): VW



#15

Acrylonitrile

Concen: 2832.401 ug/l

RT: 5.48 min Scan# 586

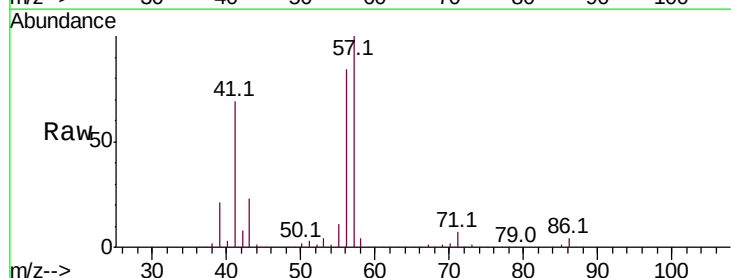
Delta R.T. 0.12 min

Lab File: VW007752.D

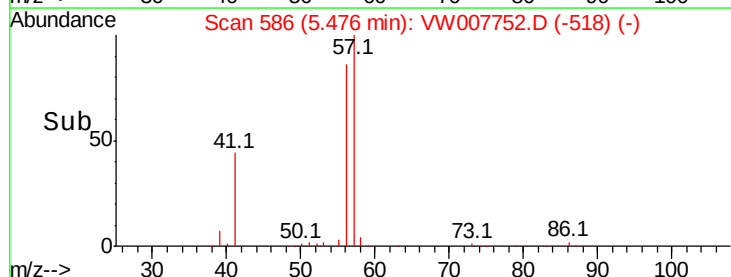
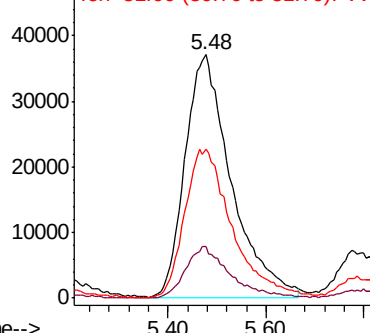
Acq: 20 Dec 2018 17:32

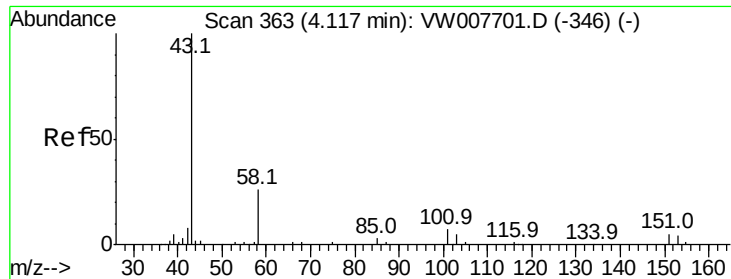
Tgt Ion: 53 Resp: 241094

Ion	Ratio	Lower	Upper
53	100		
52	20.5	67.0	100.4#
51	62.4	30.2	45.2#



Abundance Ion 53.00 (52.70 to 53.70): VW
Ion 52.00 (51.70 to 52.70): VW
Ion 51.00 (50.70 to 51.70): VW





#16

Acetone

Concen: 1798.436 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

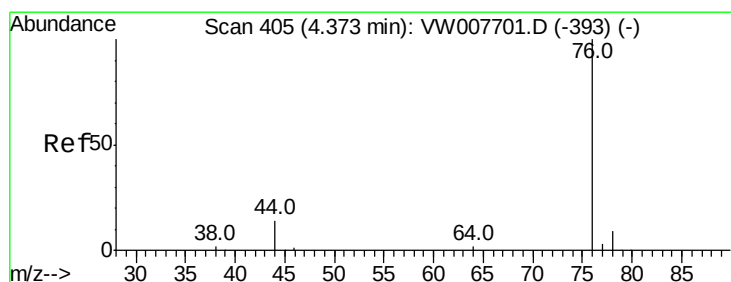
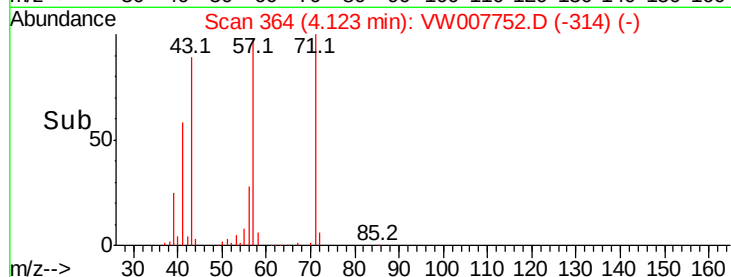
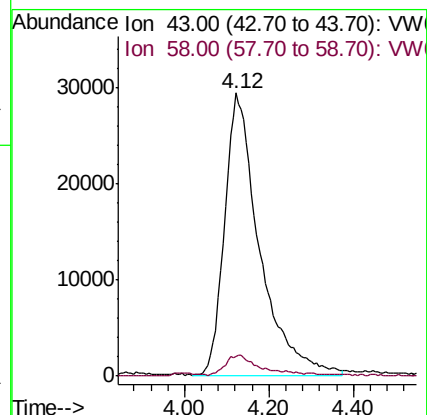
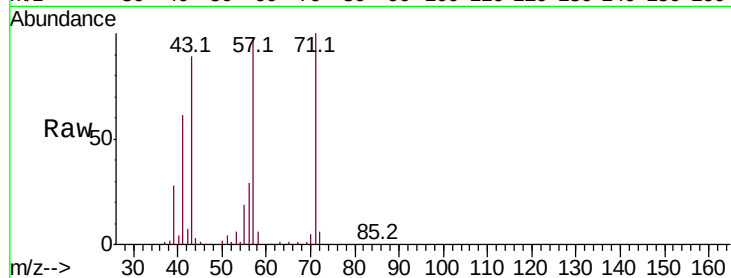
ClientSampled :

Tot Ion: 43 Resp: 166222

Ion Ratio Lower Upper

43 100

58 6.4 21.2 31.8#



#17

Carbon Disulfide

Concen: 1.483 ug/l

RT: 4.40 min Scan# 410

Delta R.T. 0.03 min

Lab File: VW007752.D

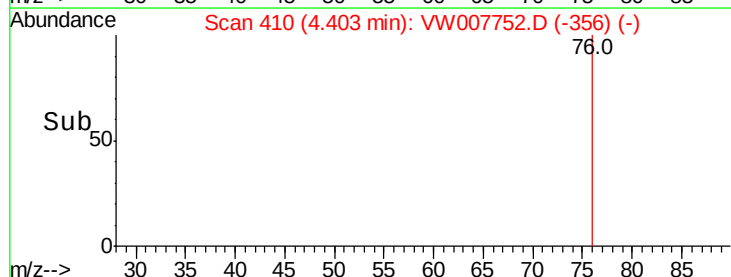
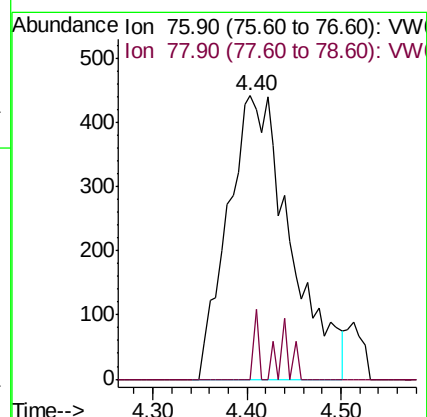
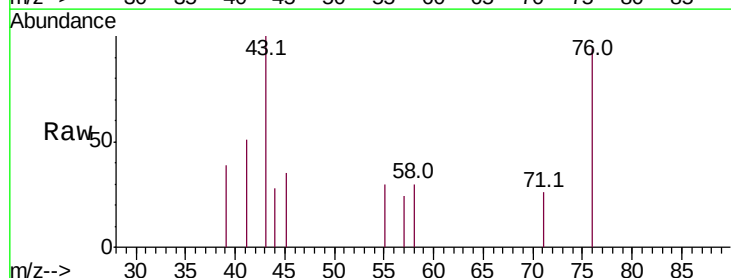
Acq: 20 Dec 2018 17:32

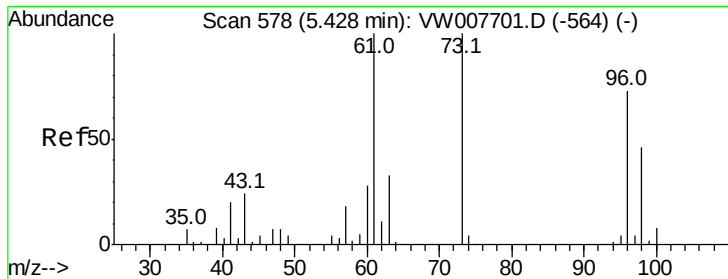
Tgt Ion: 76 Resp: 2039

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



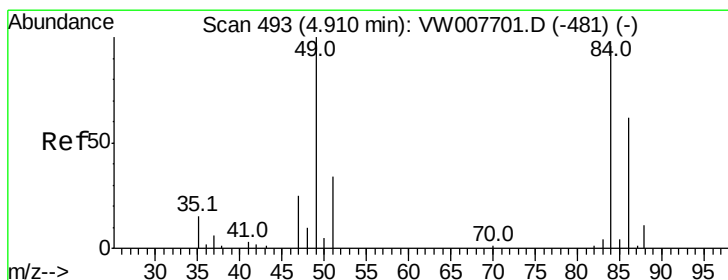
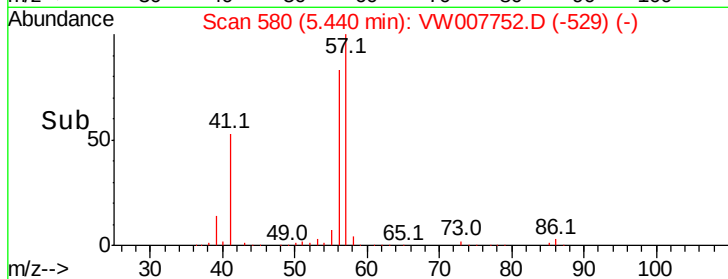
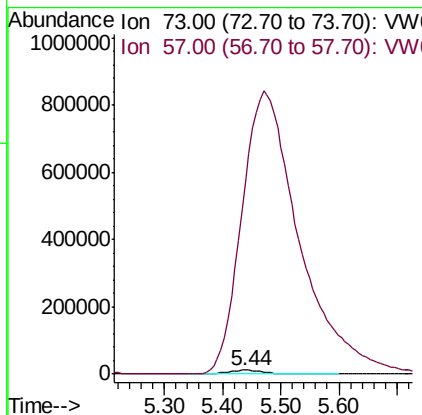
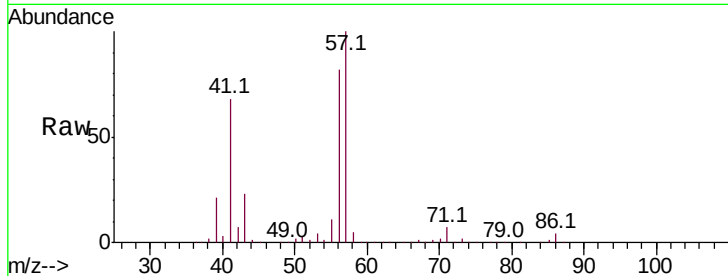


#19

Methyl tert-butyl Ether
 Concen: 86.570 ug/l
 RT: 5.44 min Scan# 580
 Delta R.T. 0.01 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

Instrument :
 MSVOA_W
 ClientSampled :

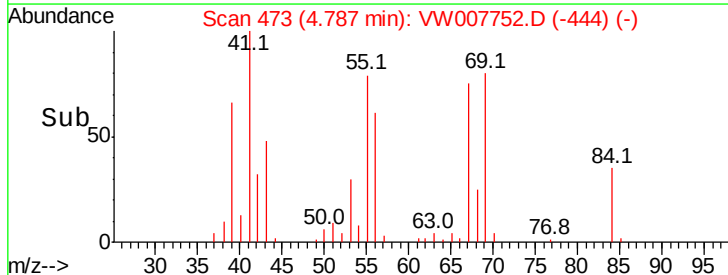
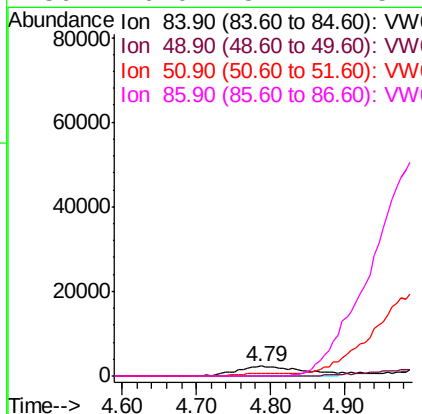
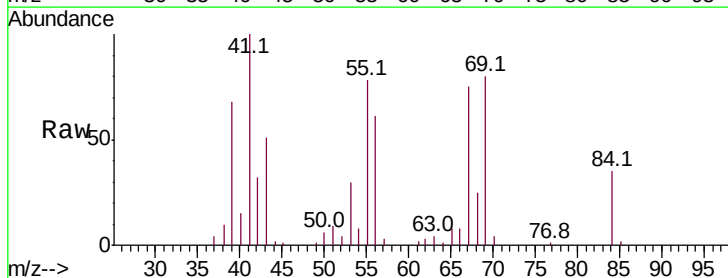
Tot Ion: 73 Resp: 55218
 Ion Ratio Lower Upper
 73 100
 57 4891.9 14.7 22.1#

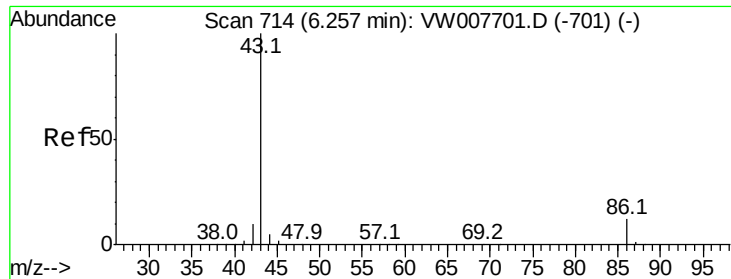


#20

Methylene Chloride
 Concen: 28.333 ug/l
 RT: 4.79 min Scan# 473
 Delta R.T. -0.12 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

Tgt Ion: 84 Resp: 14359
 Ion Ratio Lower Upper
 84 100
 49 4.2 83.7 125.5#
 51 25.4 28.2 42.2#
 86 0.0 52.2 78.2#





#23

Vinyl Acetate

Concen: 28.476 ug/l

RT: 6.46 min Scan# 747

Delta R.T. 0.20 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

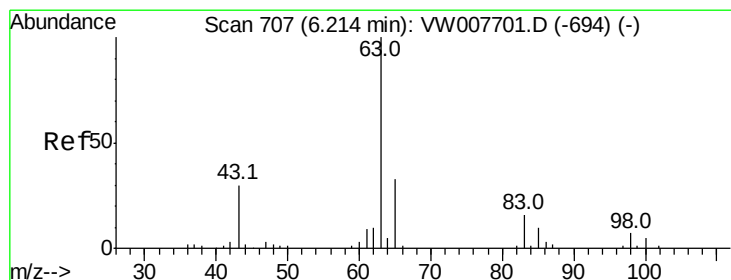
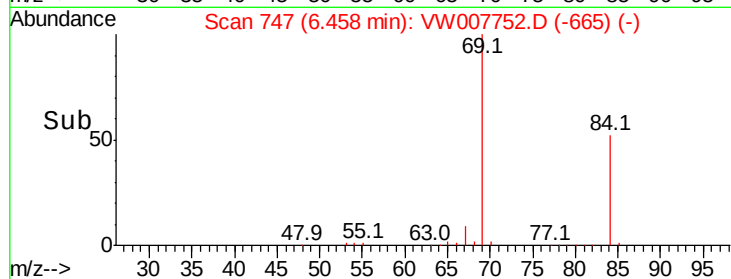
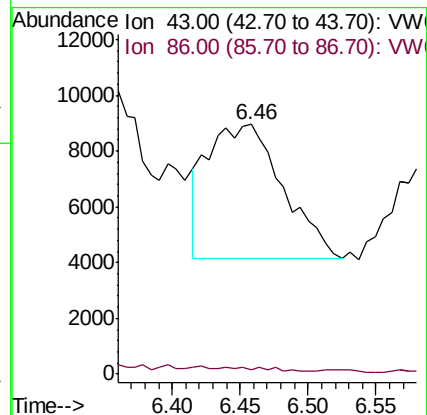
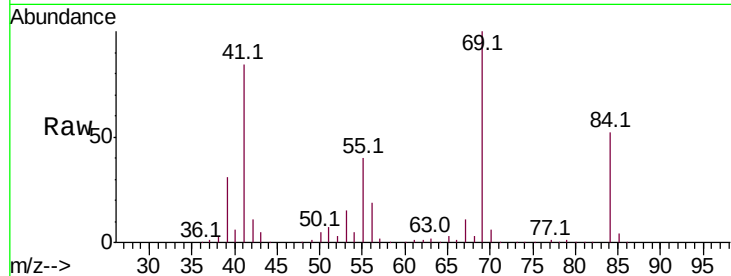
ClientSampled :

Tot Ion: 43 Resp: 18457

Ion Ratio Lower Upper

43 100

86 0.4 9.6 14.4#



#24

1,1-Dichloroethane

Concen: 34.859 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.10 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

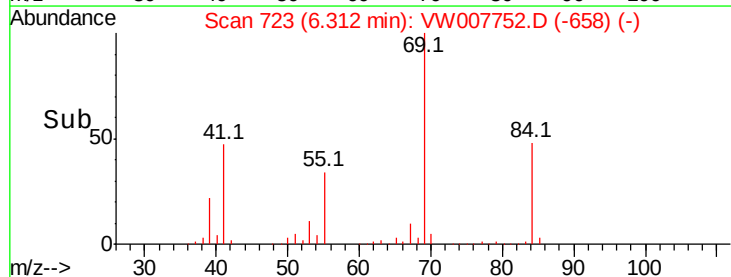
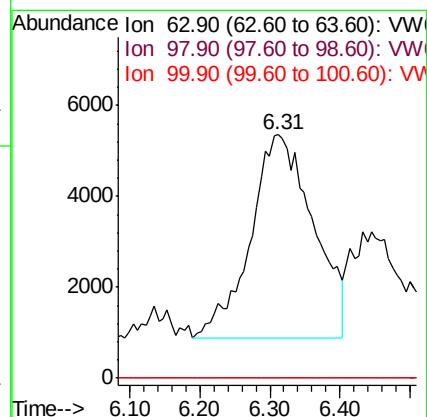
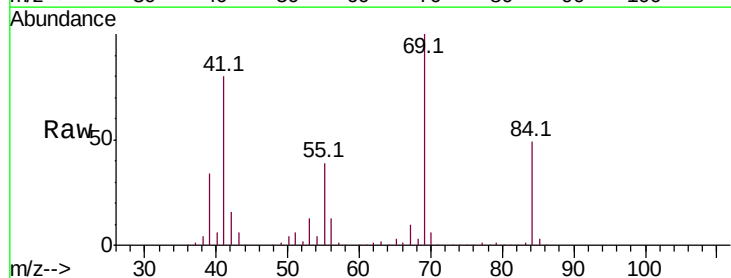
Tgt Ion: 63 Resp: 27977

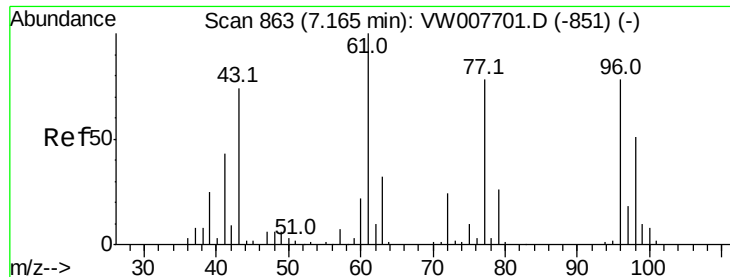
Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.9#

100 0.0 2.5 7.5#

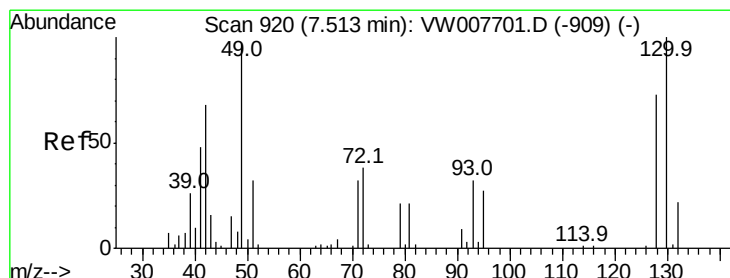
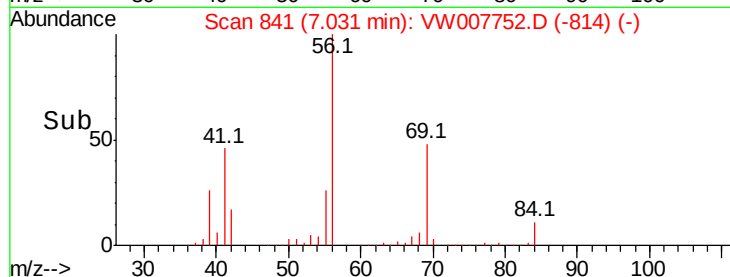
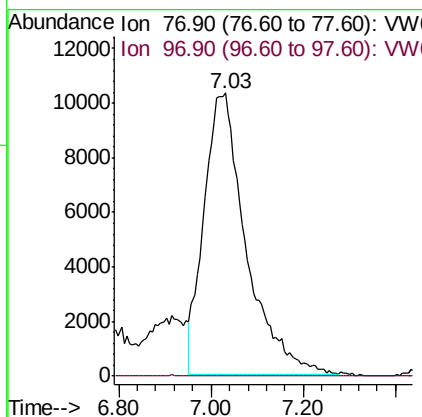
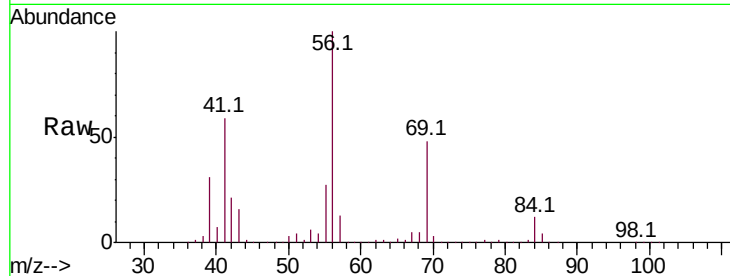




#26
 2,2-Dichloropropane
 Concen: 110.435 ug/l
 RT: 7.03 min Scan# 841
 Delta R.T. -0.13 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

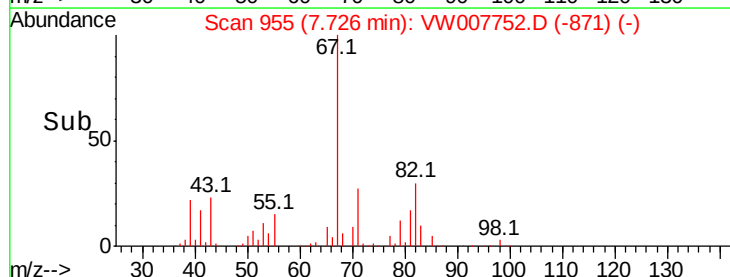
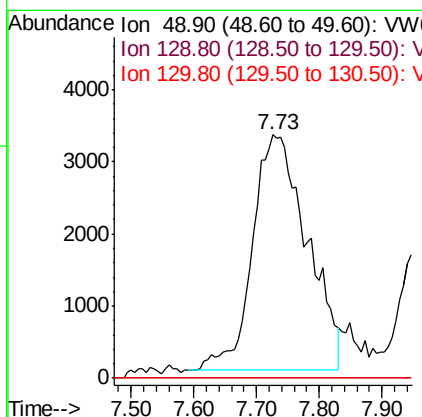
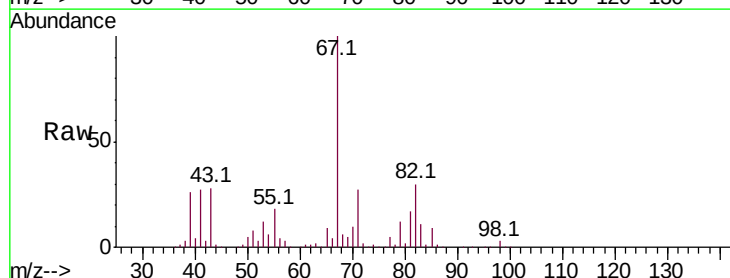
Instrument :
 MSVOA_W
 ClientSampled :

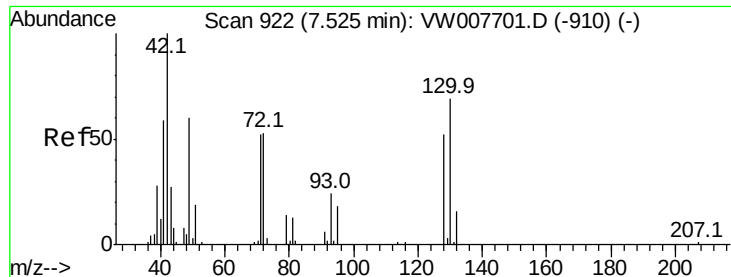
Tot Ion: 77 Resp: 64858
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.3 33.9#



#28
 Bromochloromethane
 Concen: 72.212 ug/l
 RT: 7.73 min Scan# 955
 Delta R.T. 0.21 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

Tgt Ion: 49 Resp: 19760
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 2.2
 130 0.0 81.5 122.3#

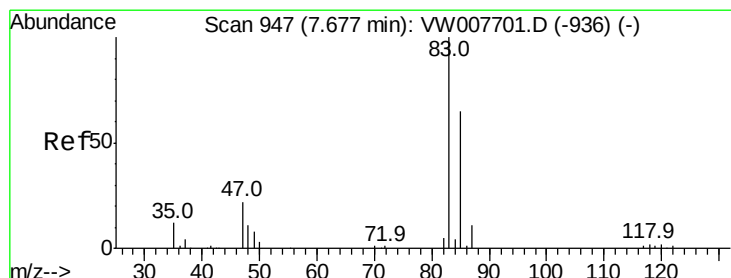
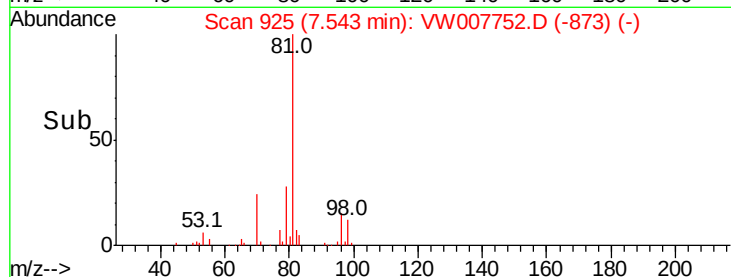
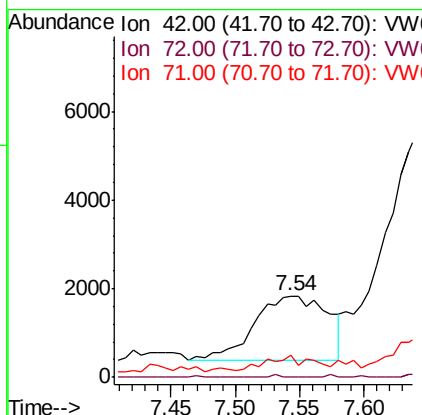
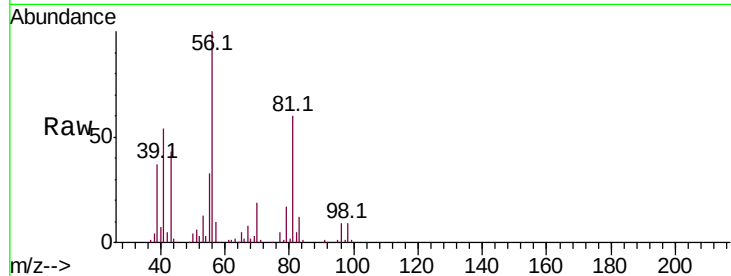




#29
Tetrahydrofuran
Concen: 89.804 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.02 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

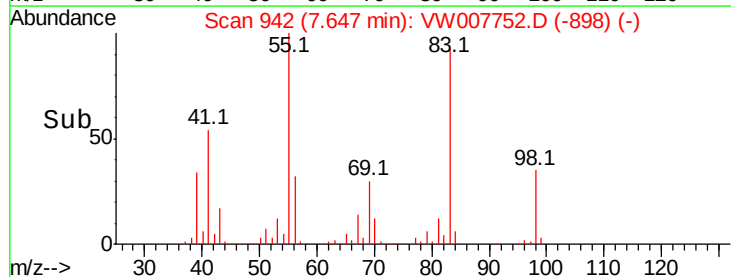
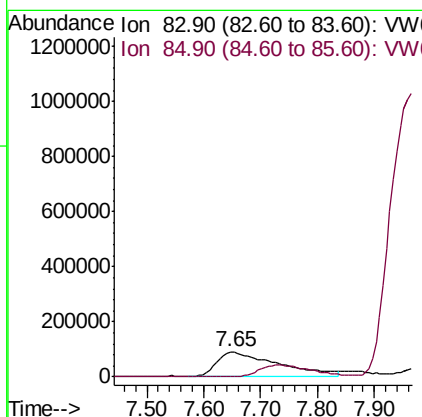
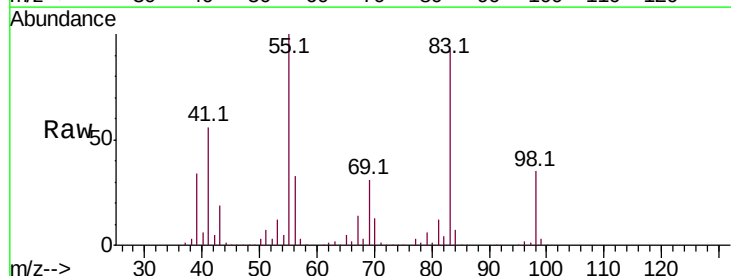
Instrument :
MSVOA_W
ClientSampleId :

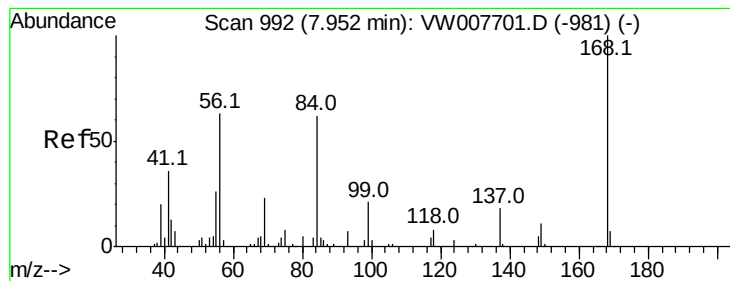
Tot Ion: 42 Resp: 5799
Ion Ratio Lower Upper
42 100
72 0.0 41.7 62.5#
71 0.0 39.0 58.6#



#30
Chloroform
Concen: 712.450 ug/l
RT: 7.65 min Scan# 942
Delta R.T. -0.03 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

Tgt Ion: 83 Resp: 647093
Ion Ratio Lower Upper
83 100
85 0.5 52.2 78.2#





#31

Cyclohexane

Concen: 4812.450 ug/l

RT: 7.99 min Scan# 998

Delta R.T. 0.04 min

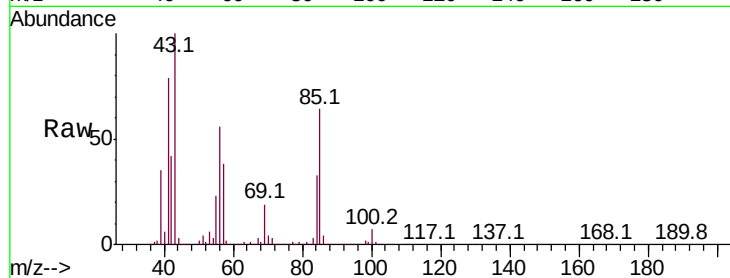
Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 56 Resp: 3535893

Ion	Ratio	Lower	Upper
56	100		
69	25.6	29.7	44.5#
84	62.1	78.9	118.3#

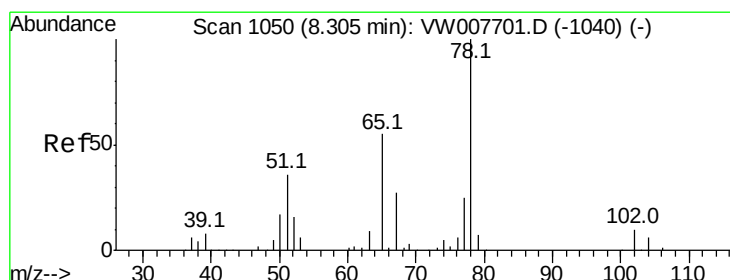
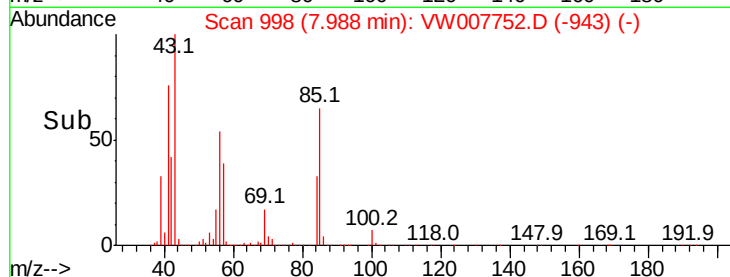
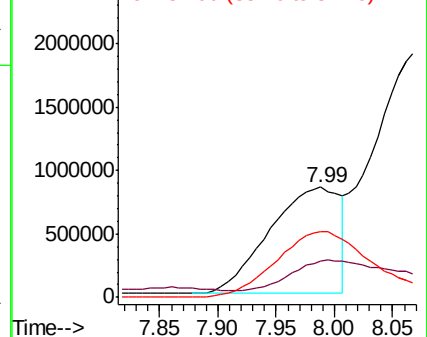


Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 68.191 ug/l

RT: 8.32 min Scan# 1052

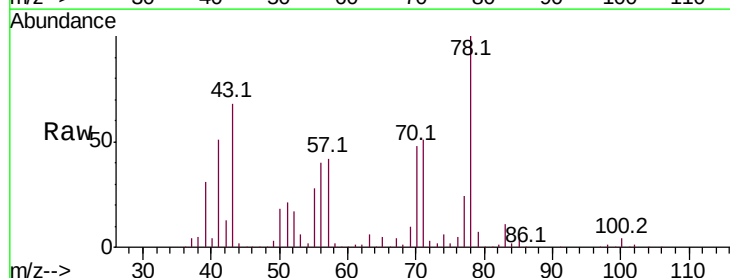
Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Tgt Ion: 65 Resp: 33657

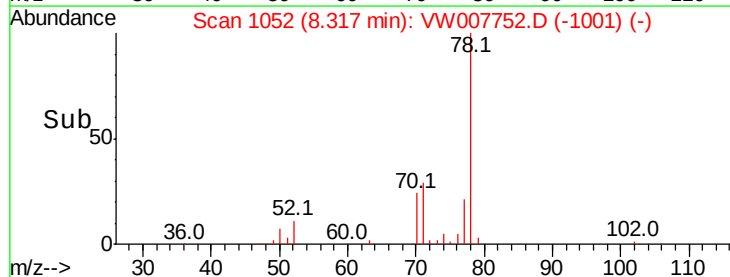
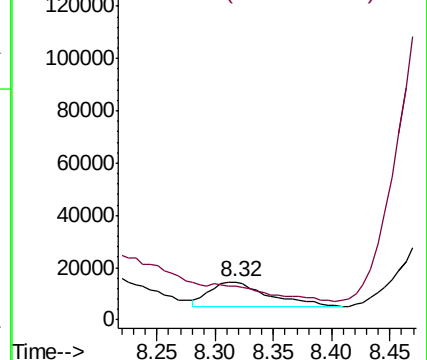
Ion	Ratio	Lower	Upper
65	100		
67	0.0	0.0	100.6

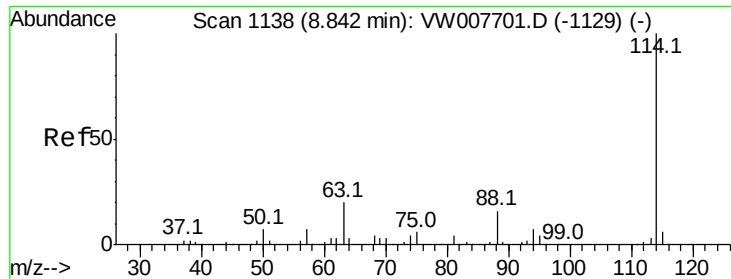


Abundance

Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

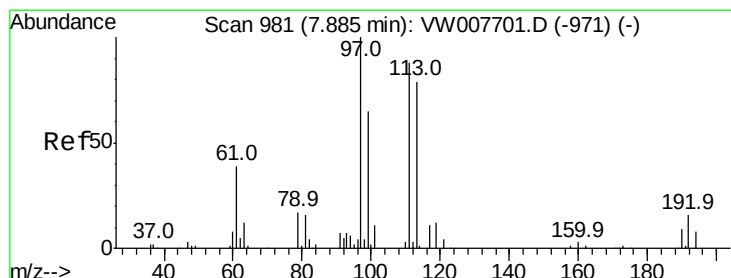
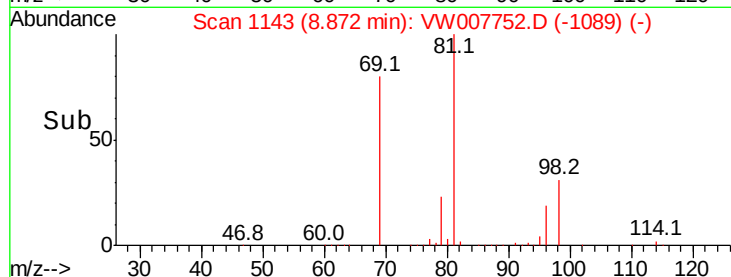
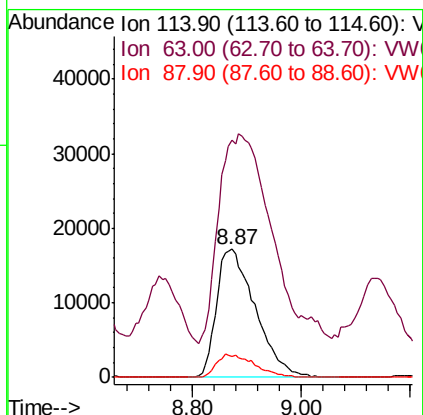
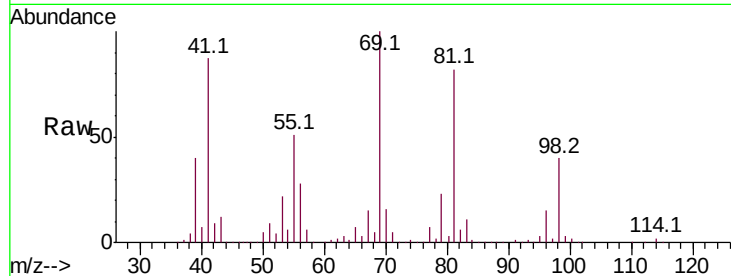




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1143
 Delta R.T. 0.03 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

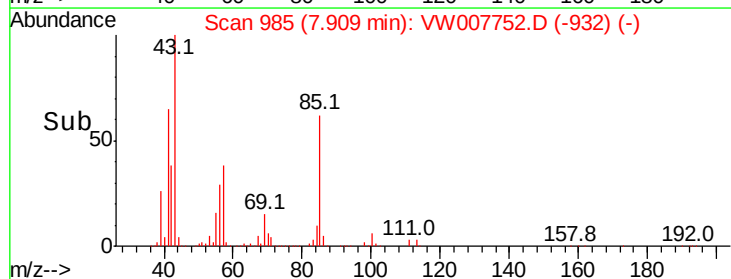
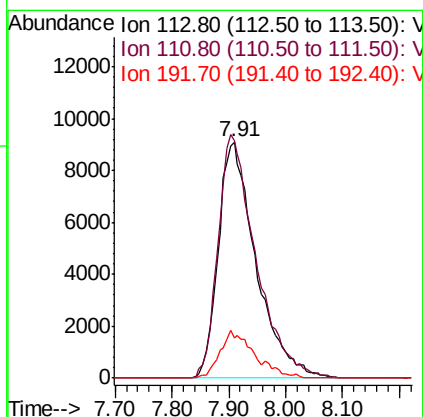
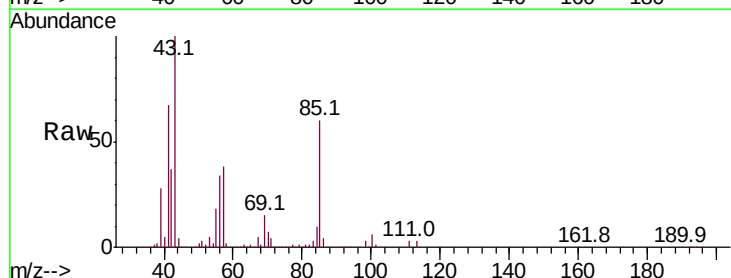
Instrument :
 MSVOA_W
 ClientSampled :

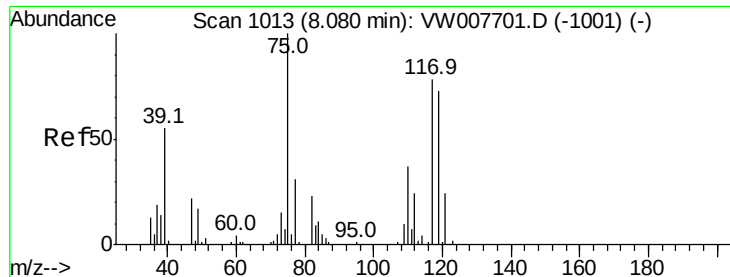
Tot Ion:114 Resp: 85212
 Ion Ratio Lower Upper
 114 100
 63 153.7 0.0 40.0#
 88 16.7 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 80.446 ug/l
 RT: 7.91 min Scan# 985
 Delta R.T. 0.02 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

Tgt Ion:113 Resp: 41819
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.6 124.0
 192 18.5 15.5 23.3





#36

1,1-Dichloropropene

Concen: 9.136 ug/l

RT: 7.97 min Scan# 995

Delta R.T. -0.11 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampled :

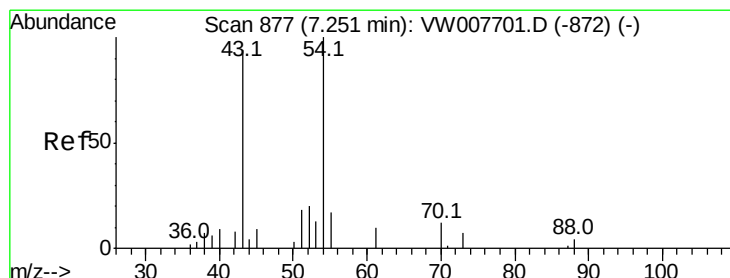
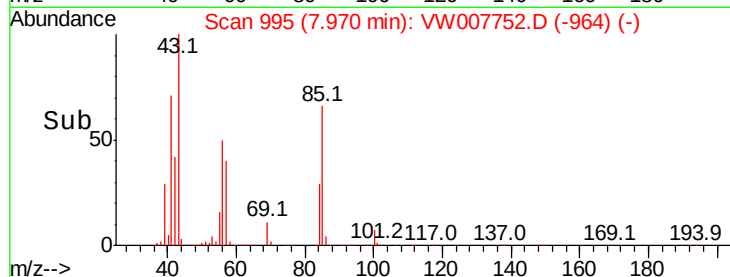
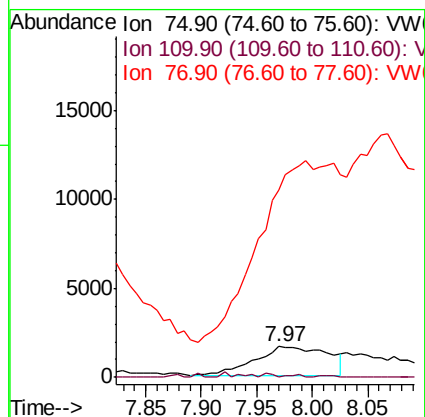
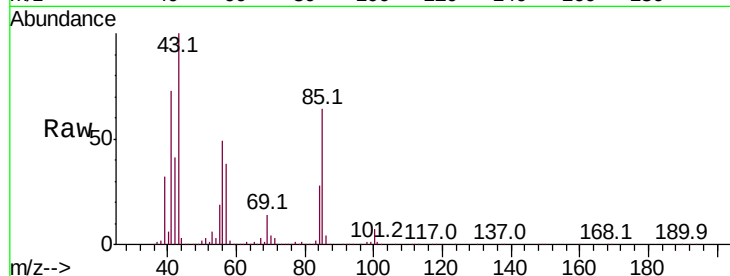
Tot Ion: 75 Resp: 7514

Ion Ratio Lower Upper

75 100

110 1.8 18.6 55.8#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 99.247 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.29 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

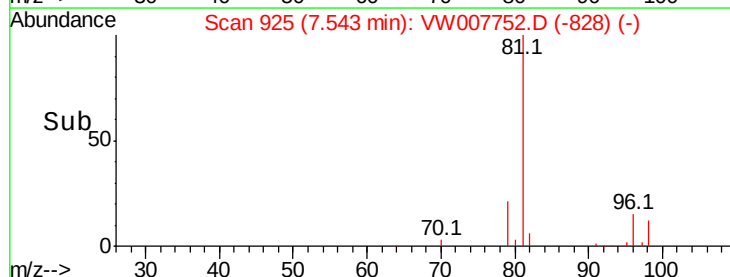
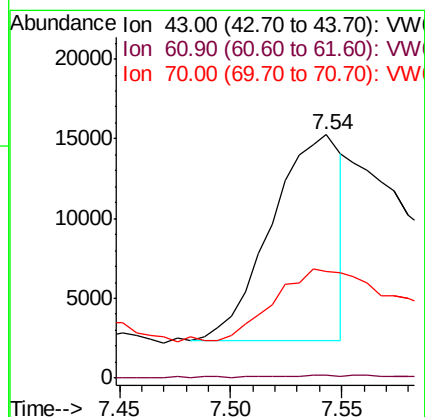
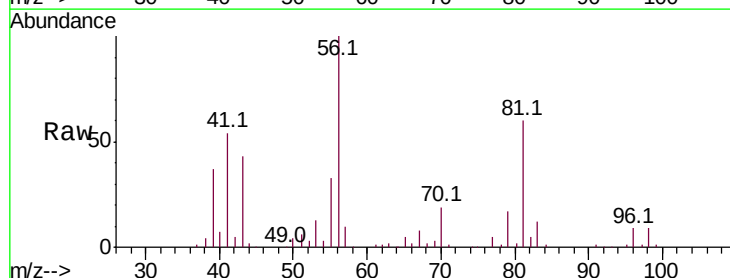
Tgt Ion: 43 Resp: 28170

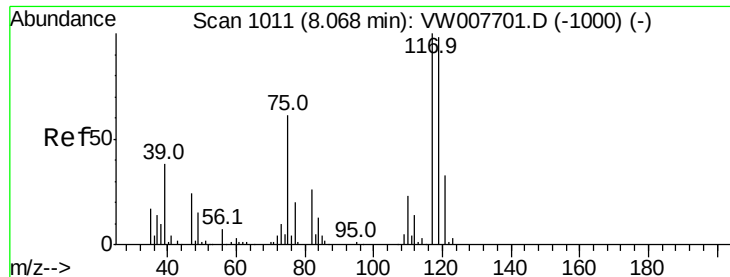
Ion Ratio Lower Upper

43 100

61 0.0 11.2 16.8#

70 32.7 9.3 13.9#





#38

Carbon Tetrachloride

Concen: 2.820 ug/l

RT: 7.98 min Scan# 997

Delta R.T. -0.09 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampled :

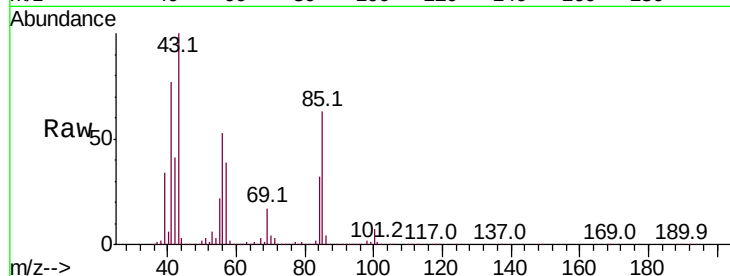
Tot Ion:117 Resp: 2731

Ion Ratio Lower Upper

117 100

119 5.6 78.2 117.2#

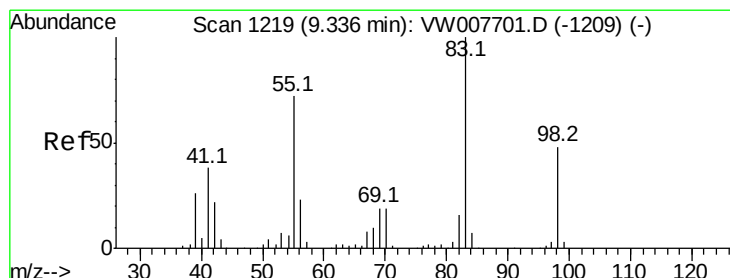
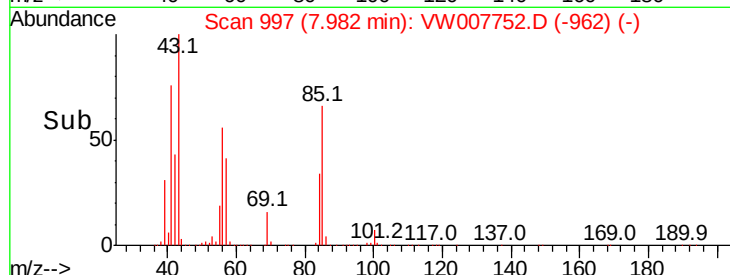
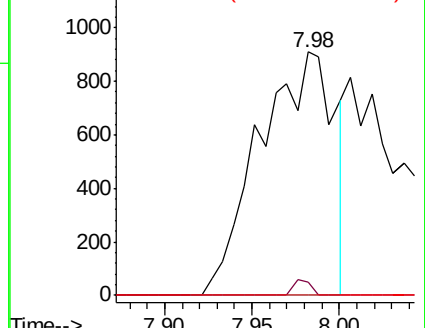
121 0.0 26.1 39.1#



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

Methylcyclohexane

Concen: 9281.445 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.03 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

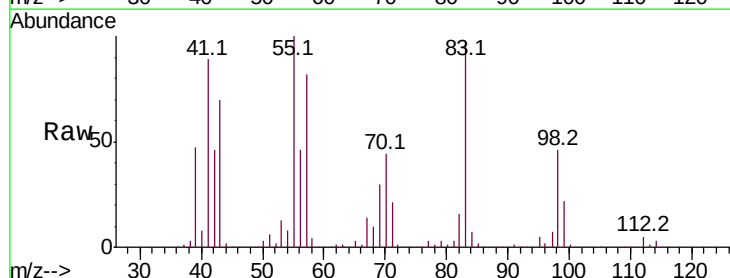
Tgt Ion: 83 Resp: 9485459

Ion Ratio Lower Upper

83 100

55 101.9 57.2 85.8#

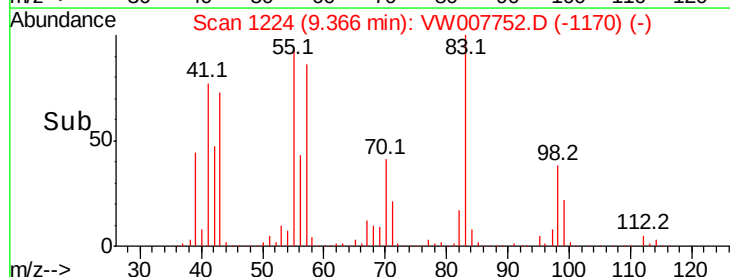
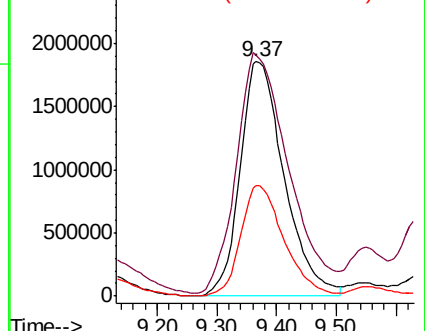
98 46.9 38.6 58.0

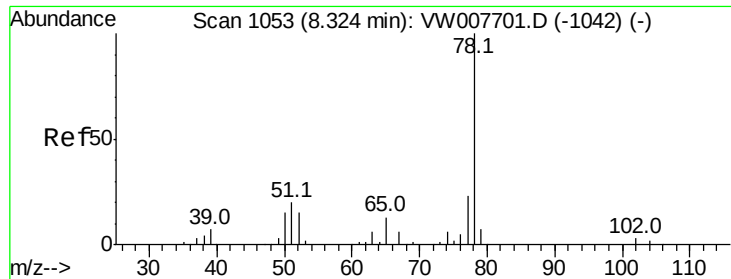


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

Benzene

Concen: 2009.841 ug/l

RT: 8.35 min Scan# 1058

Delta R.T. 0.03 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

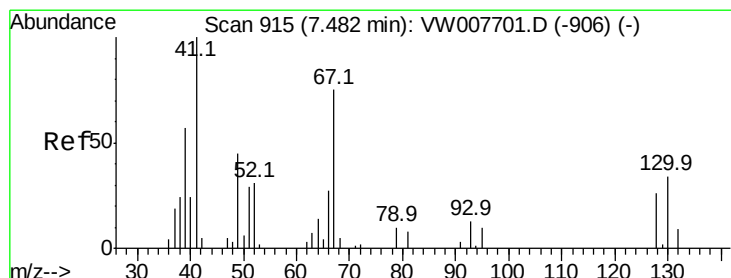
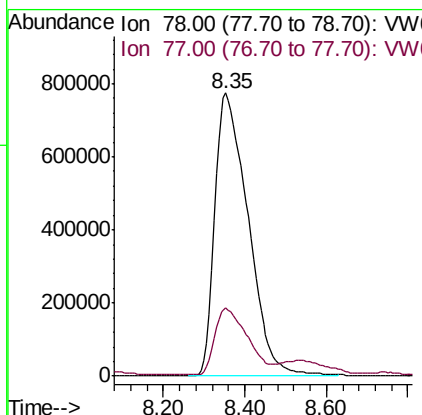
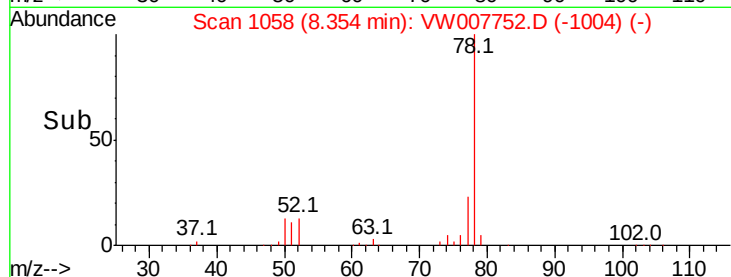
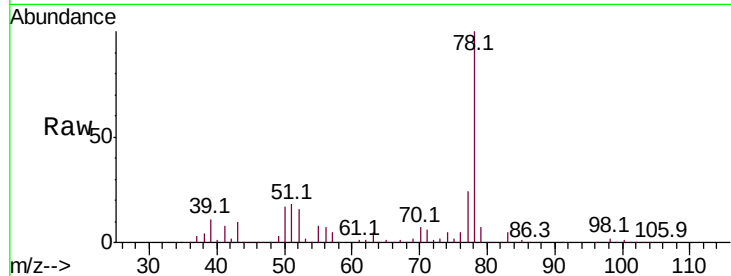
ClientSampled :

Tot Ion: 78 Resp: 4410983

Ion Ratio Lower Upper

78 100

77 23.5 18.7 28.1



#41

Methacrylonitrile

Concen: 372.231 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Tgt Ion: 41 Resp: 59985

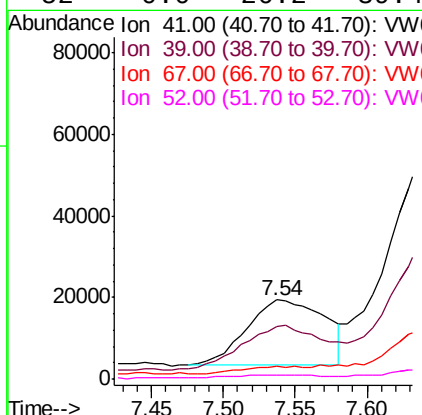
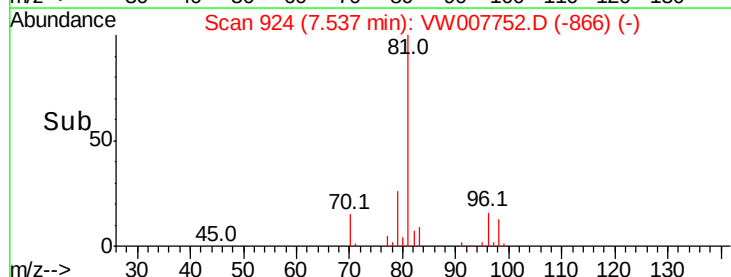
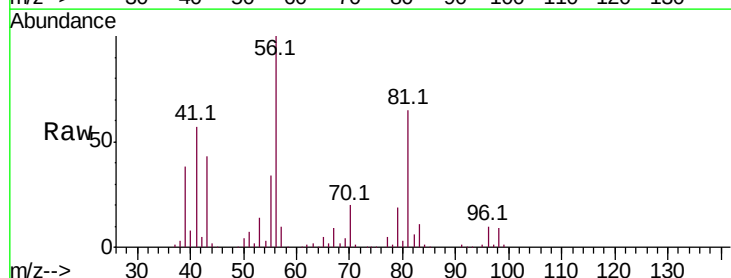
Ion Ratio Lower Upper

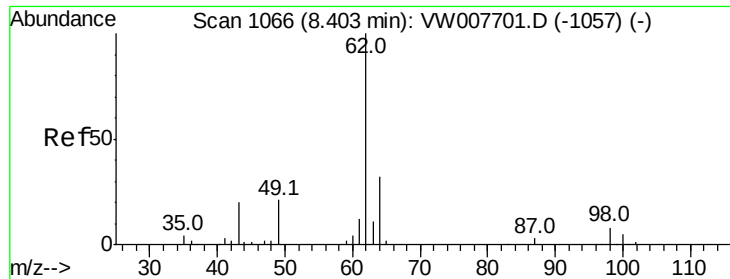
41 100

39 75.8 54.2 81.4

67 0.0 65.7 98.5#

52 0.0 26.2 39.4#





#42

1,2-Dichloroethane

Concen: 45.104 ug/l

RT: 8.36 min Scan# 1059

Delta R.T. -0.04 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

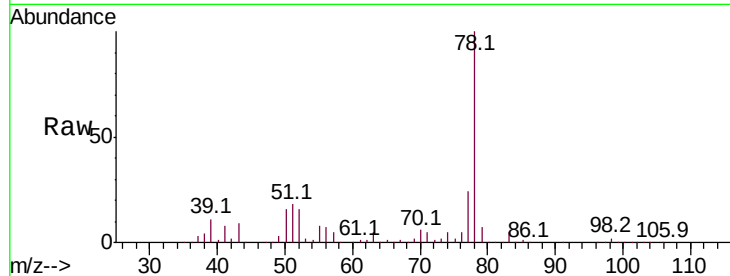
ClientSampleId :

Tot Ion: 62 Resp: 33173

Ion Ratio Lower Upper

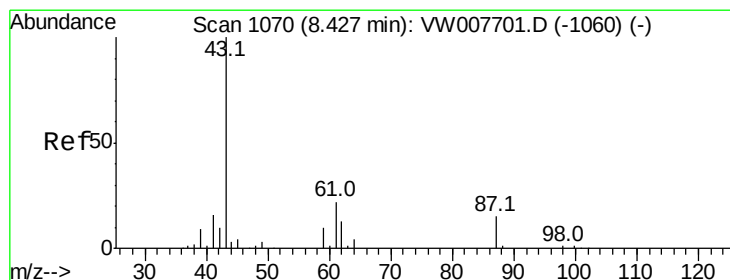
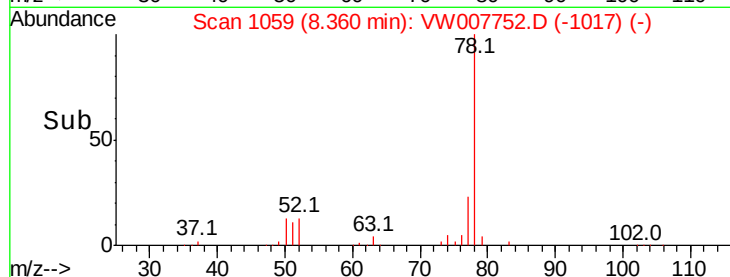
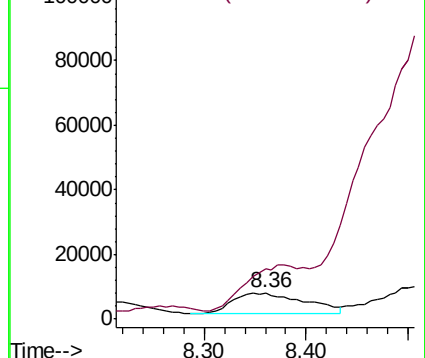
62 100

98 172.1 0.0 16.6#



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW



#43

Isopropyl Acetate

Concen: 28280.591 ug/l

RT: 8.52 min Scan# 1086

Delta R.T. 0.10 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

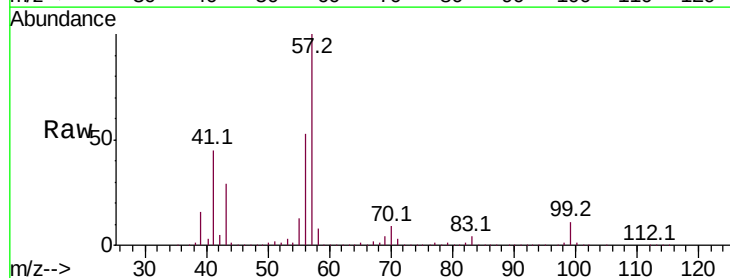
Tgt Ion: 43 Resp: 16081954

Ion Ratio Lower Upper

43 100

61 0.0 26.3 39.5#

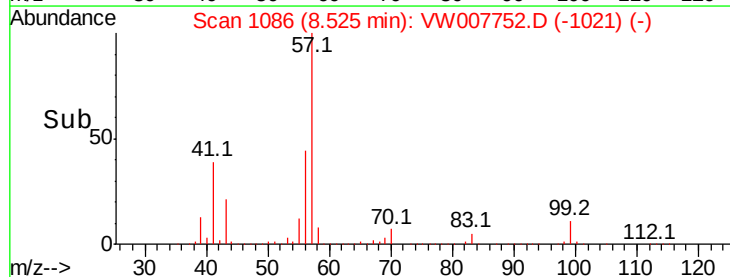
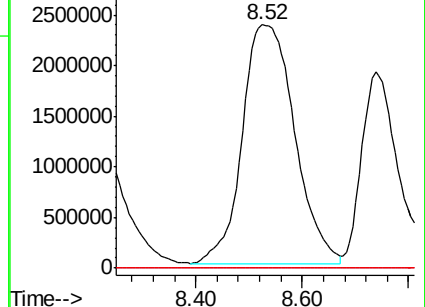
87 0.0 12.0 18.0#

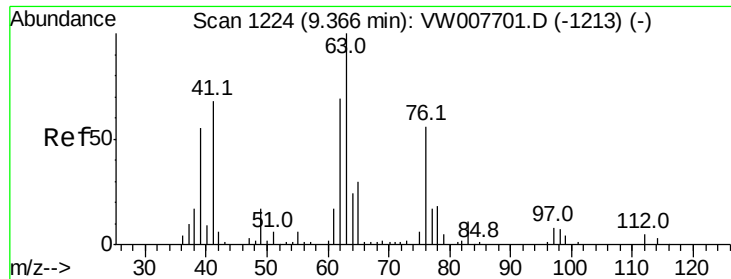


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW





#45

1,2-Dichloropropane

Concen: 401.409 ug/l

RT: 9.36 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

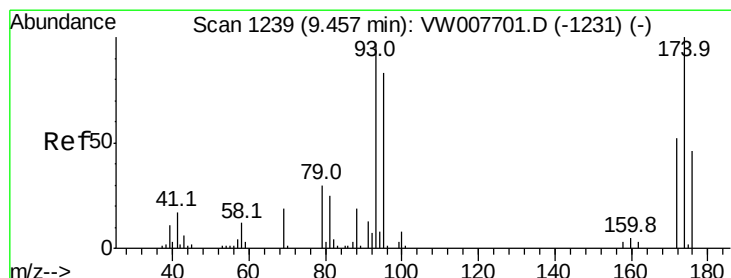
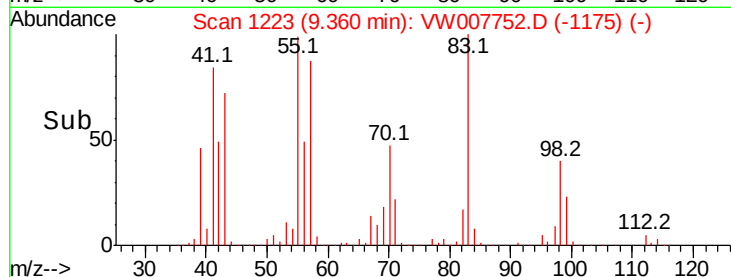
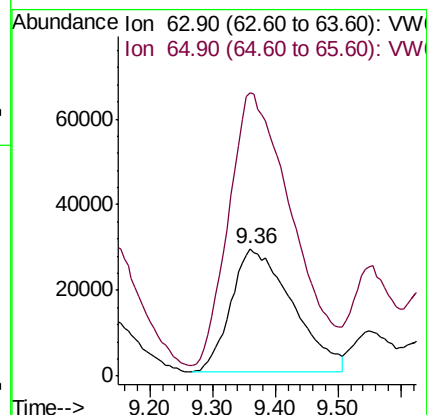
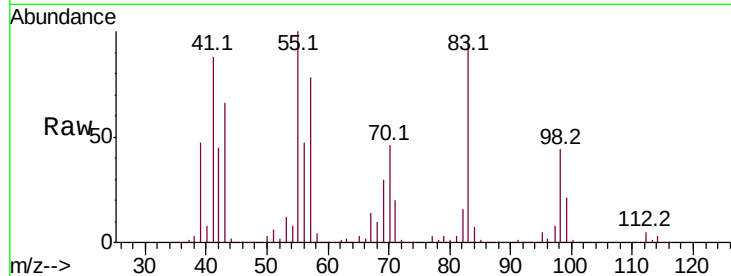
ClientSampleId :

Tot Ion: 63 Resp: 195478

Ion Ratio Lower Upper

63 100

65 220.5 23.8 35.8#



#46

Dibromomethane

Concen: 61.010 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.09 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

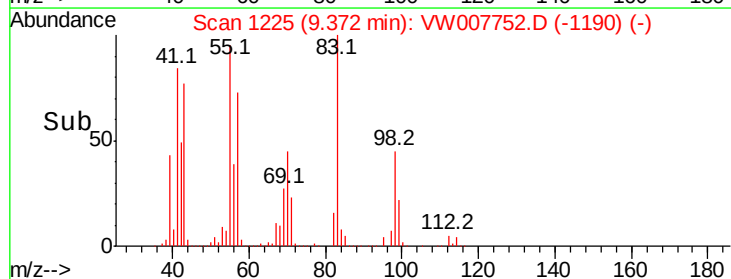
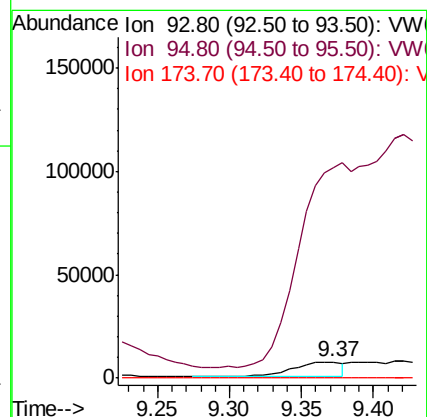
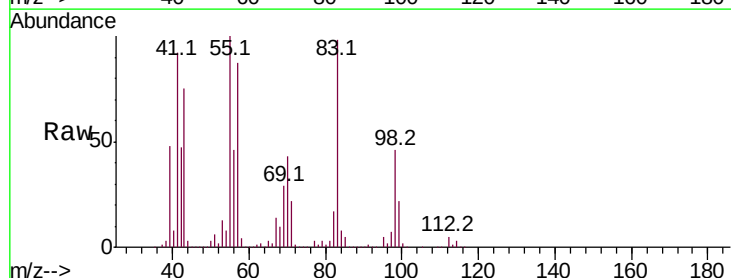
Tgt Ion: 93 Resp: 18289

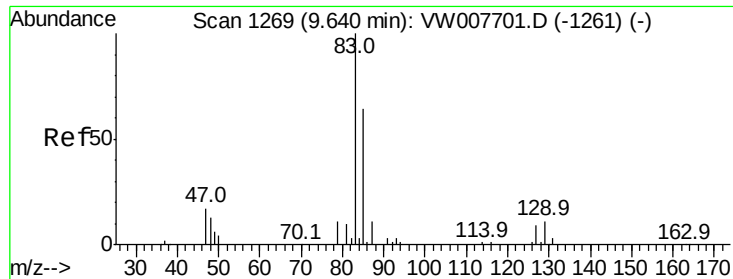
Ion Ratio Lower Upper

93 100

95 1368.1 67.5 101.3#

174 0.0 83.9 125.9#





#47

Bromodichloromethane

Concen: 830.639 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampled :

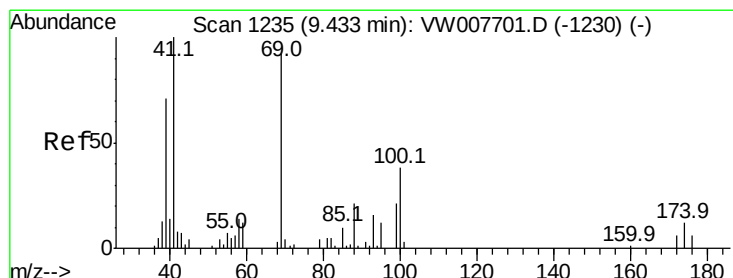
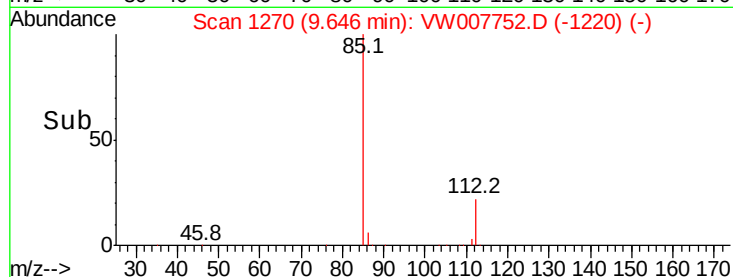
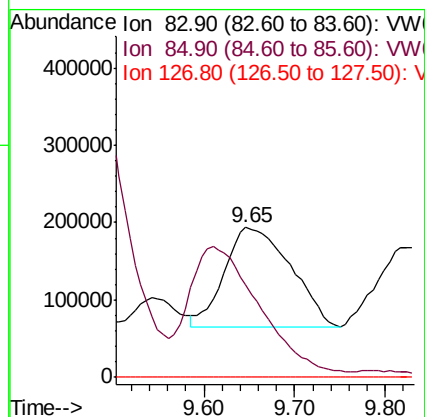
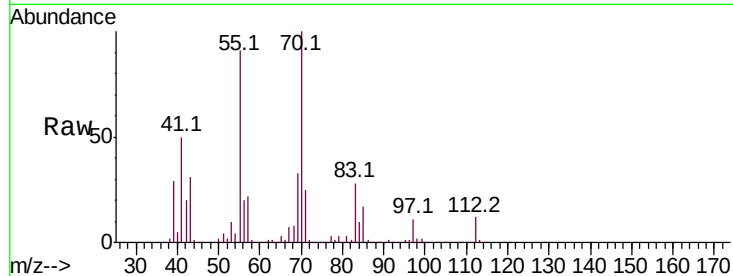
Tot Ion: 83 Resp: 654608

Ion Ratio Lower Upper

83 100

85 86.3 51.4 77.0#

127 0.0 7.5 11.3#



#48

Methyl methacrylate

Concen: 50503.845 ug/l

RT: 9.40 min Scan# 1230

Delta R.T. -0.03 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

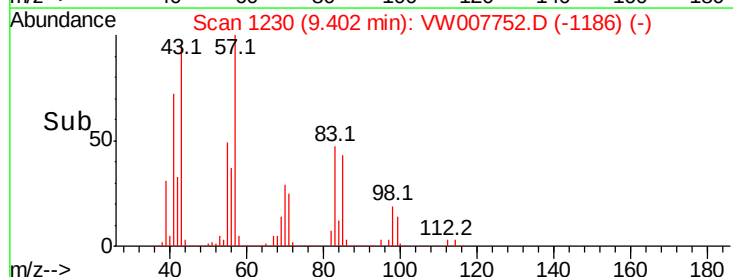
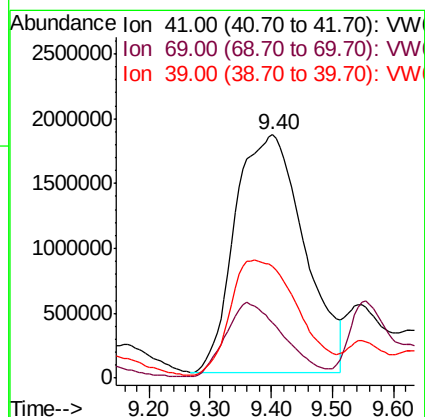
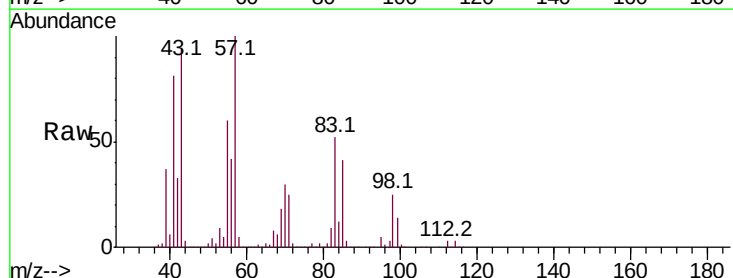
Tgt Ion: 41 Resp: 14335386

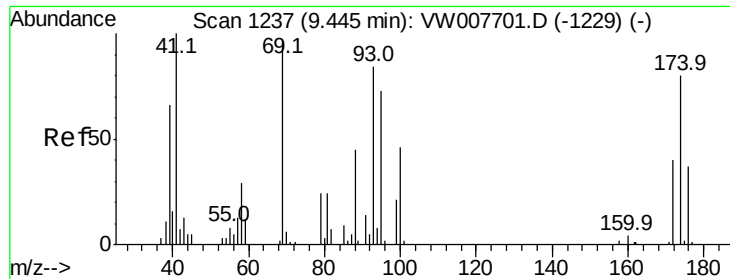
Ion Ratio Lower Upper

41 100

69 0.0 74.2 111.2#

39 0.0 53.9 80.9#





#49

1,4-Dioxane

Concen: 27.984 ug/l

RT: 9.39 min Scan# 1228

Delta R.T. -0.06 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :
MSVOA_W
ClientSampled :

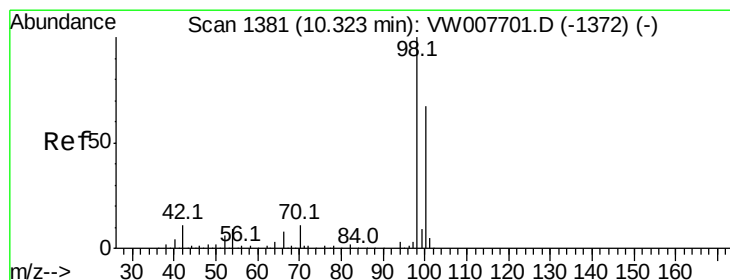
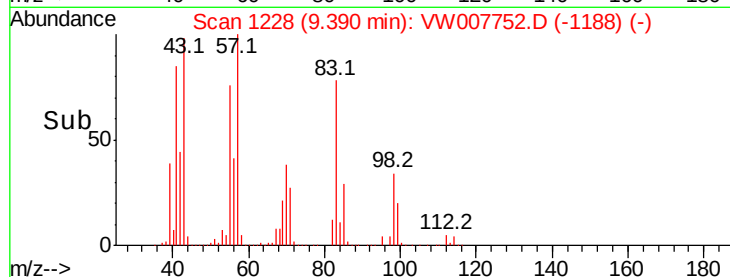
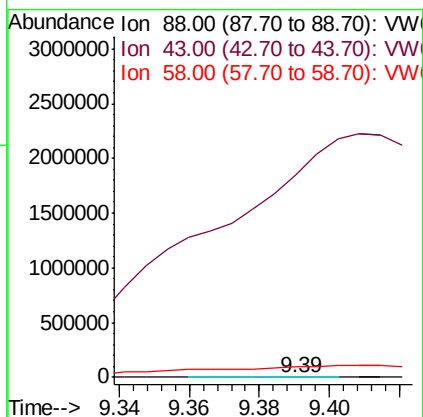
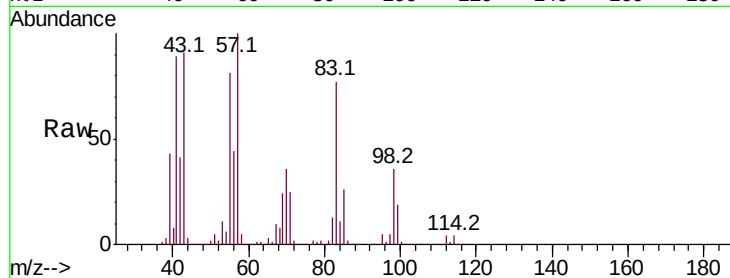
Tot Ion: 88 Resp: 133

Ion Ratio Lower Upper

88 100

43 11284363.2 25.6 38.4#

58 658750.4 52.3 78.5#



#50

Toluene-d8

Concen: 228.077 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.07 min

Lab File: VW007752.D

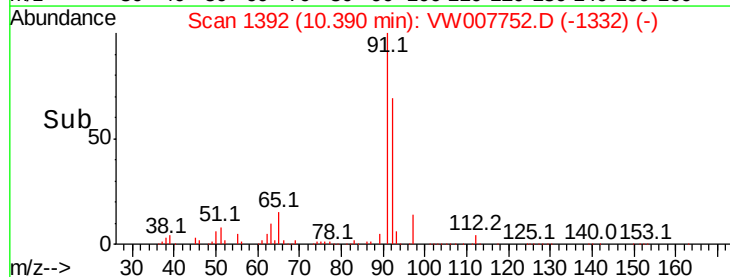
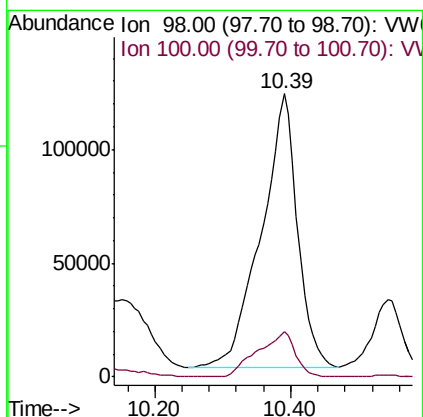
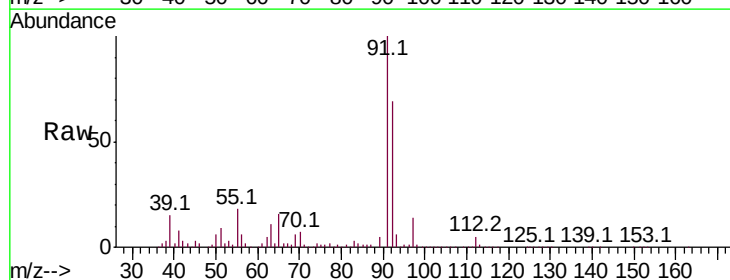
Acq: 20 Dec 2018 17:32

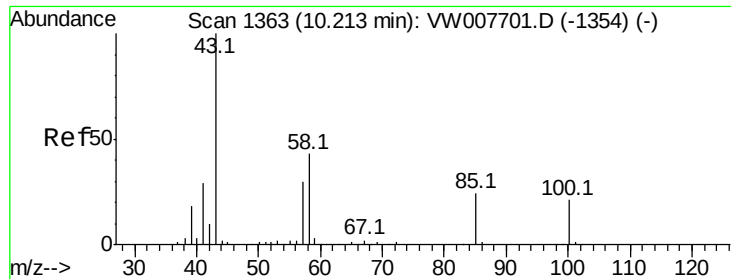
Tgt Ion: 98 Resp: 446965

Ion Ratio Lower Upper

98 100

100 17.1 52.2 78.2#





#51

4-Methyl-2-Pentanone

Concen: 72398.346 ug/l

RT: 10.16 min Scan# 1354

Delta R.T. -0.06 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

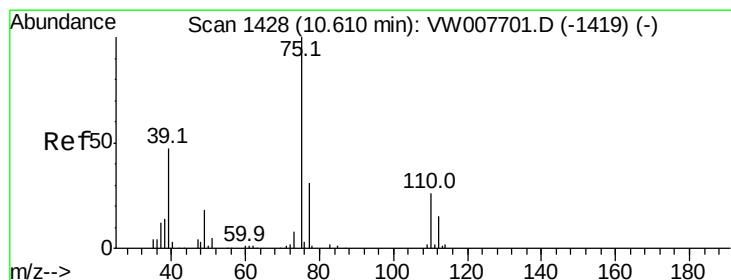
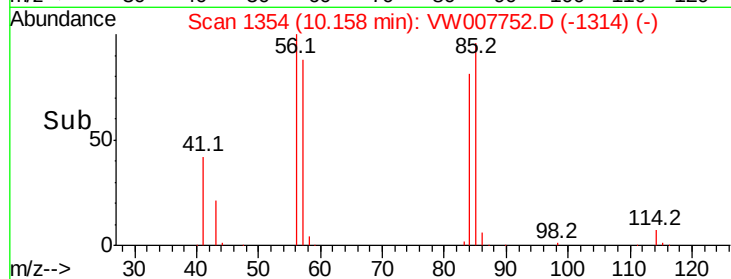
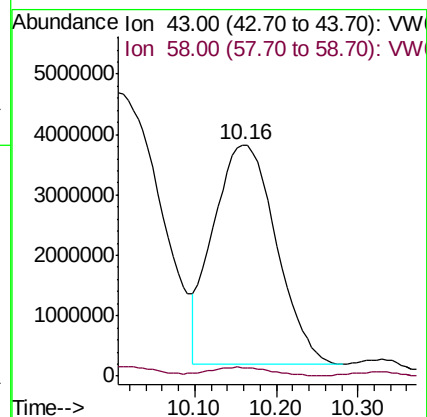
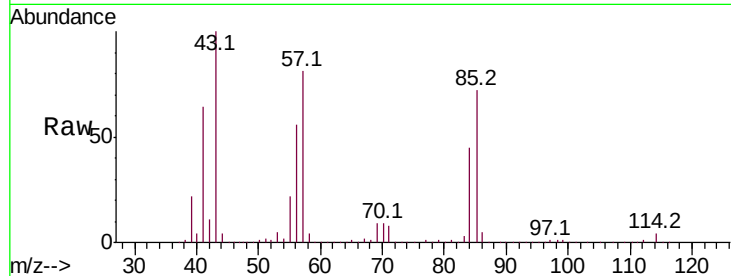
ClientSampled :

Tot Ion: 43 Resp:19456767

Ion Ratio Lower Upper

43 100

58 3.3 33.2 49.8#



#53

t-1,3-Dichloropropene

Concen: 976.907 ug/l

RT: 10.44 min Scan# 1401

Delta R.T. -0.16 min

Lab File: VW007752.D

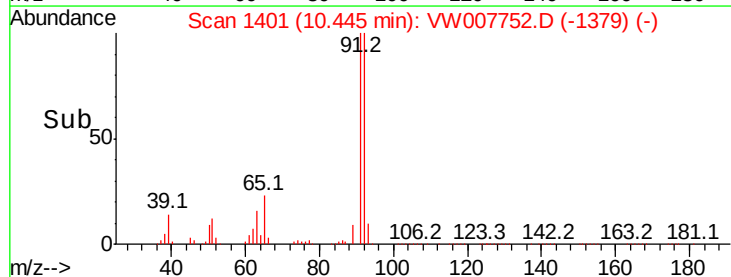
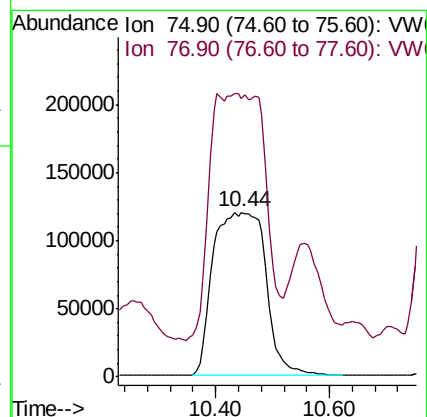
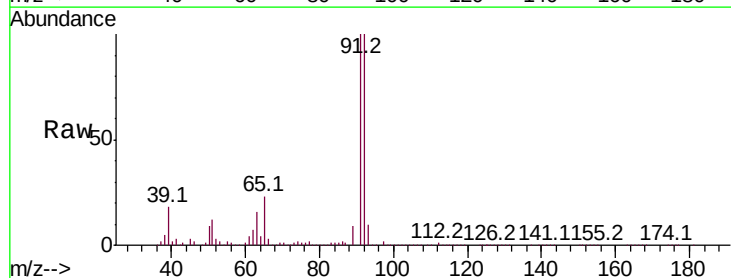
Acq: 20 Dec 2018 17:32

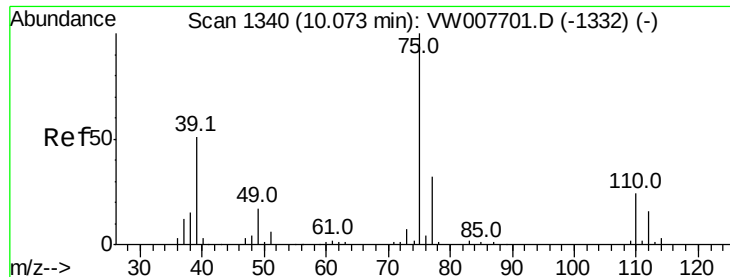
Tgt Ion: 75 Resp: 765772

Ion Ratio Lower Upper

75 100

77 145.4 25.2 37.8#



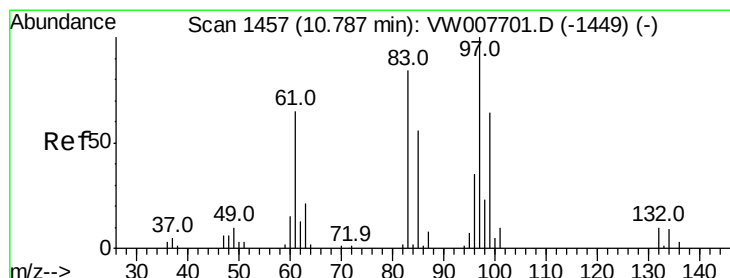
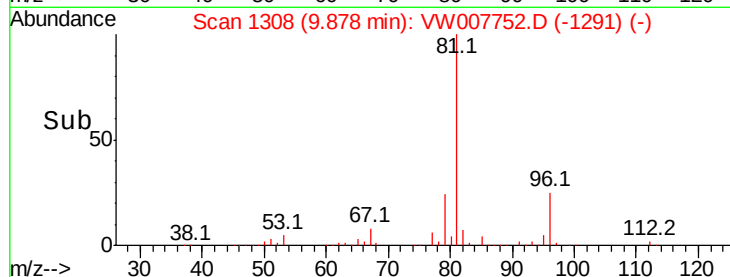
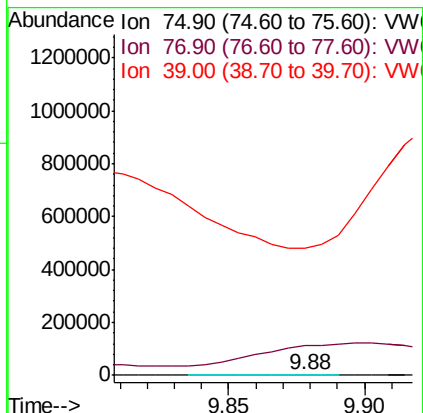
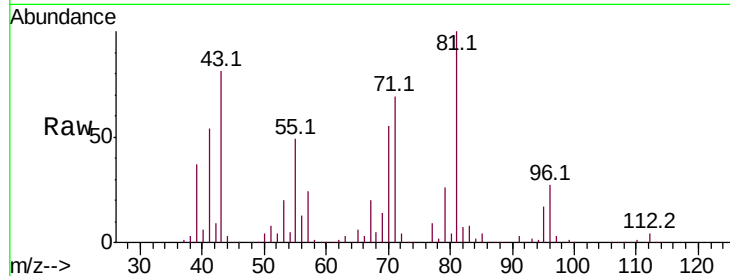


#54

cis-1,3-Dichloropropene
 Concen: 4.656 ug/l
 RT: 9.88 min Scan# 1308
 Delta R.T. -0.20 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

Instrument :
 MSVOA_W
 ClientSampled :

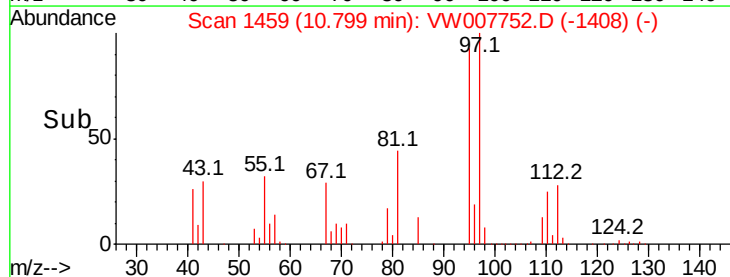
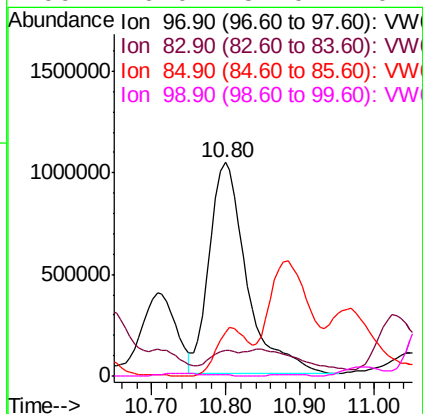
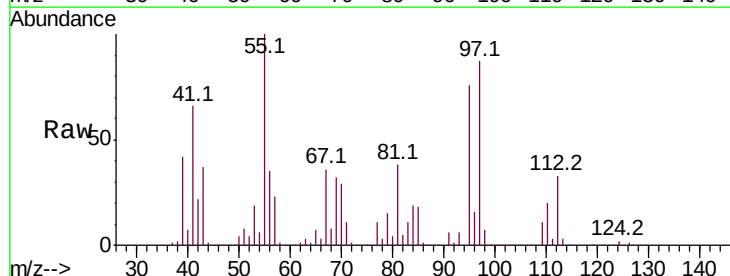
Tot Ion: 75 Resp: 4031
 Ion Ratio Lower Upper
 75 100
 77 3825.6 25.5 38.3#
 39 0.0 41.2 61.8#

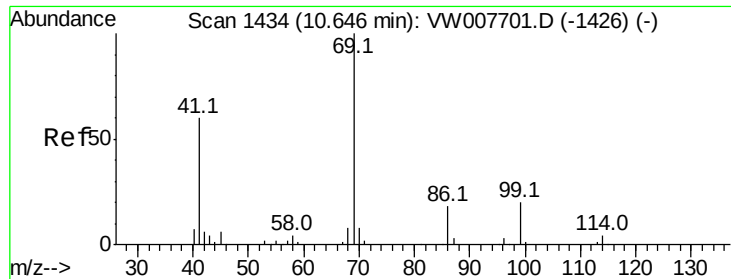


#55

1,1,2-Trichloroethane
 Concen: 8756.670 ug/l
 RT: 10.80 min Scan# 1459
 Delta R.T. 0.01 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

Tgt Ion: 97 Resp: 3618799
 Ion Ratio Lower Upper
 97 100
 83 8.6 67.5 101.3#
 85 20.4 44.8 67.2#
 99 0.0 51.0 76.4#





#56

Ethyl methacrylate

Concen: 870.535 ug/l

RT: 10.71 min Scan# 1445

Delta R.T. 0.07 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampled :

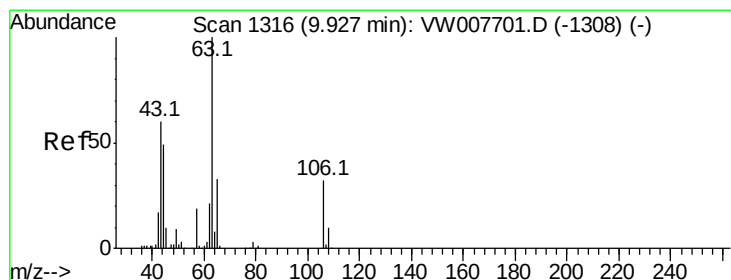
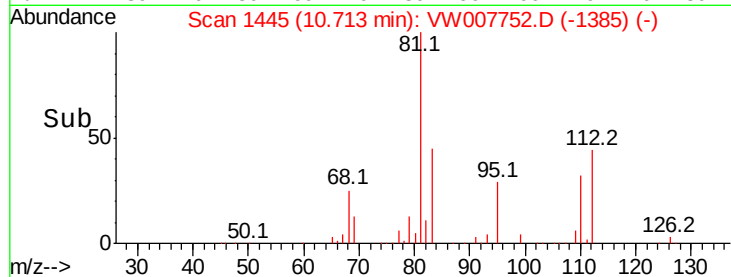
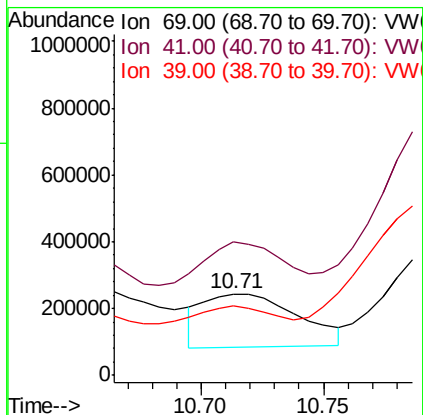
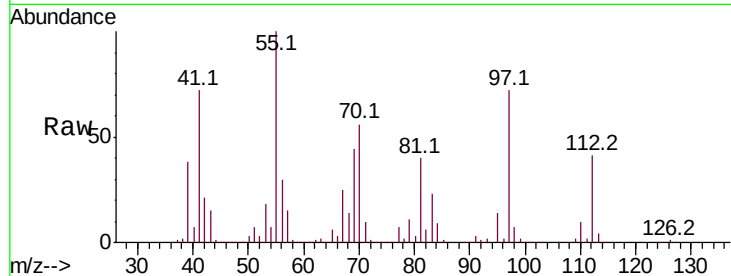
Tot Ion: 69 Resp: 425058

Ion Ratio Lower Upper

69 100

41 107.5 48.9 73.3#

39 42.4 31.3 46.9



#58

2-Chloroethyl Vinyl ether

Concen: 1191.770 ug/l

RT: 9.91 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VW007752.D

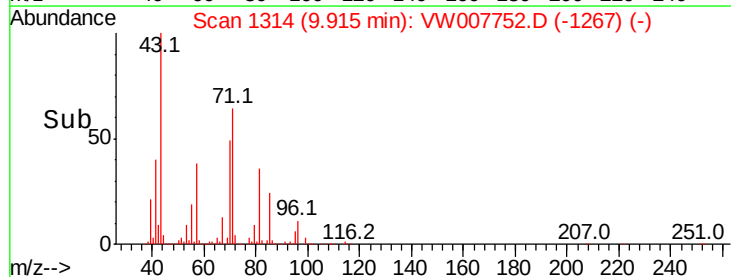
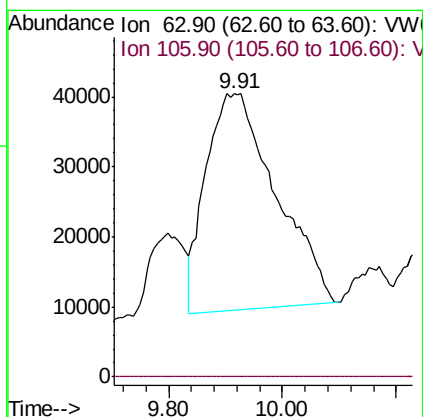
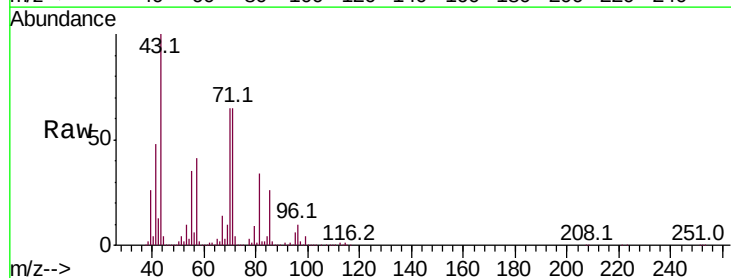
Acq: 20 Dec 2018 17:32

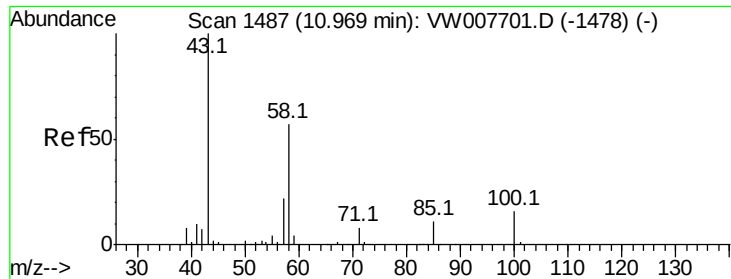
Tgt Ion: 63 Resp: 265683

Ion Ratio Lower Upper

63 100

106 0.0 25.9 38.9#





#59

2-Hexanone

Concen: 14154.498 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

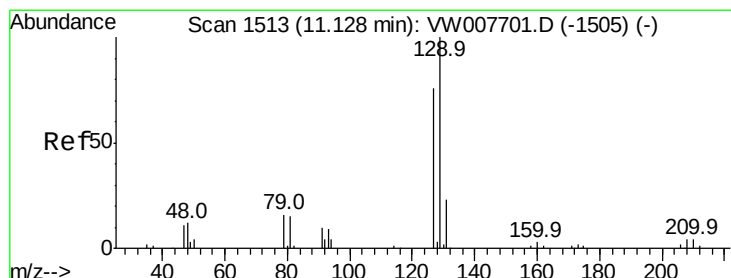
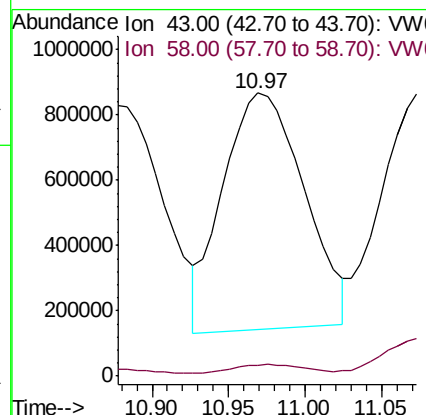
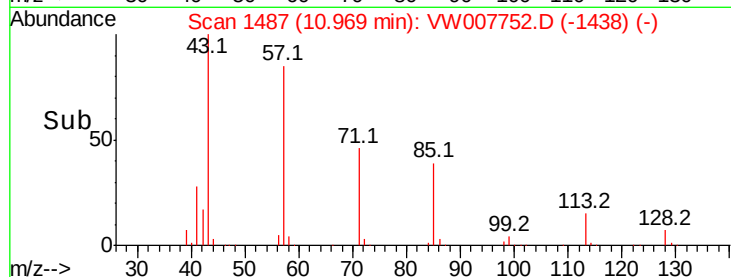
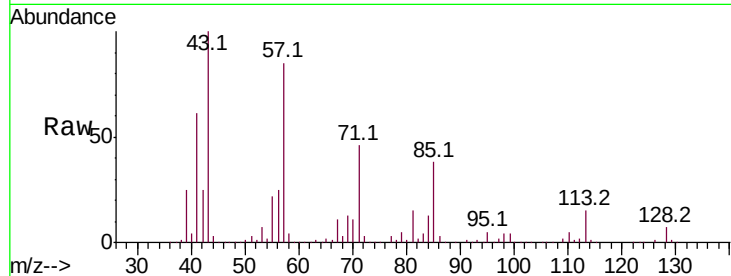
ClientSampled :

Tot Ion: 43 Resp: 2675213

Ion Ratio Lower Upper

43 100

58 4.1 27.7 83.1#



#60

Dibromochloromethane

Concen: 43.636 ug/l

RT: 11.07 min Scan# 1503

Delta R.T. -0.06 min

Lab File: VW007752.D

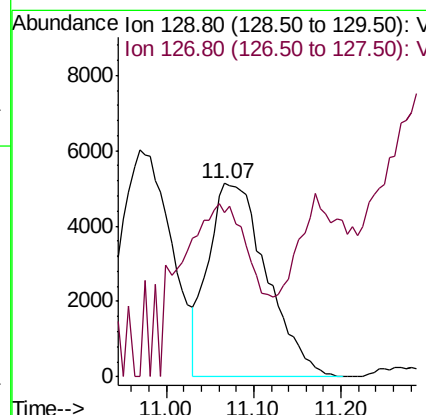
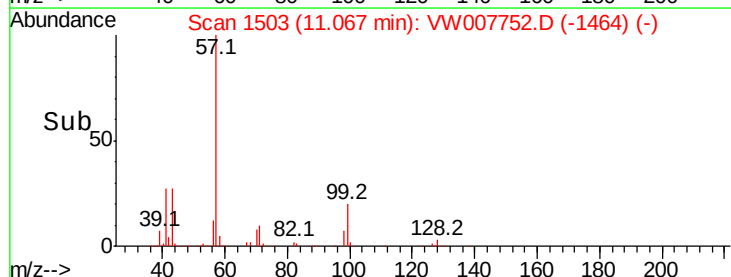
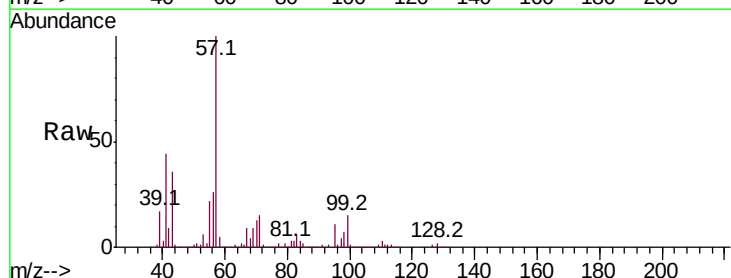
Acq: 20 Dec 2018 17:32

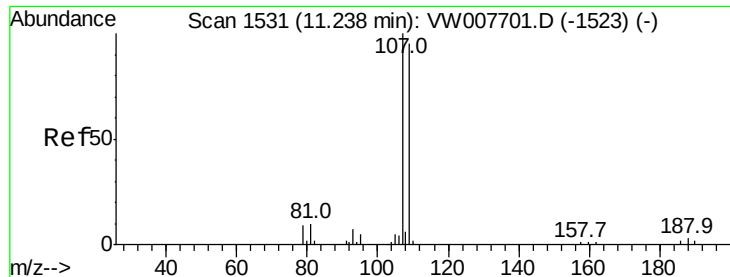
Tgt Ion: 129 Resp: 23877

Ion Ratio Lower Upper

129 100

127 114.6 38.3 114.9





#61

1,2-Dibromoethane

Concen: 32.361 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

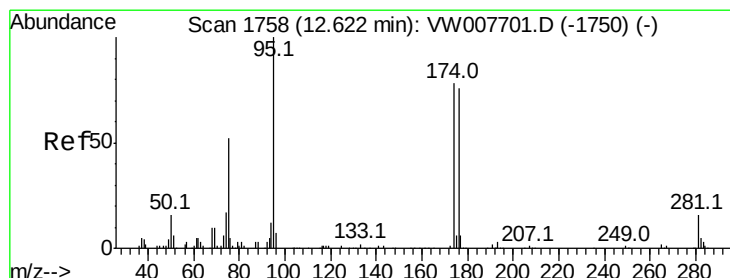
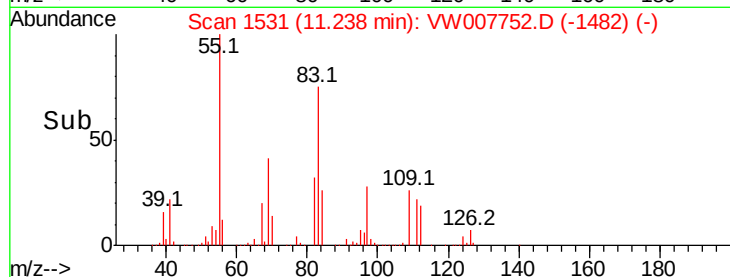
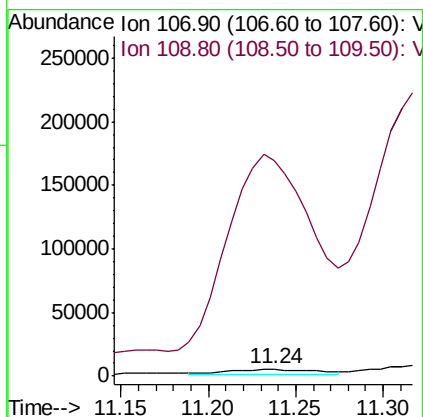
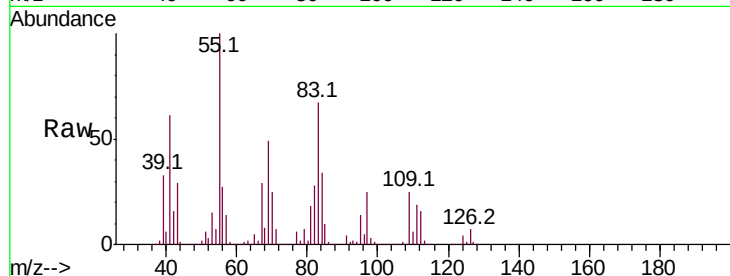
ClientSampleId :

Tot Ion:107 Resp: 13543

Ion Ratio Lower Upper

107 100

109 3835.0 75.4 113.0#



#62

4-Bromofluorobenzene

Concen: 380.758 ug/l

RT: 12.63 min Scan# 1760

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

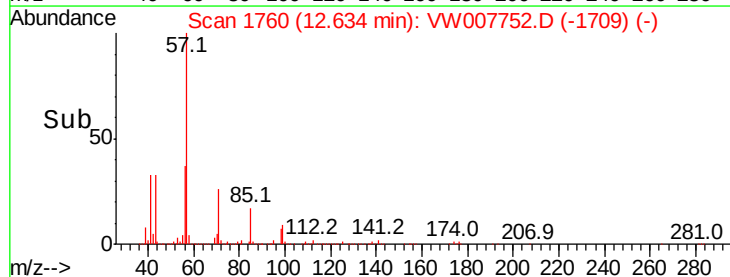
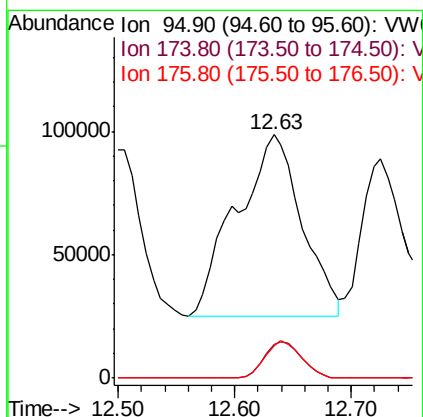
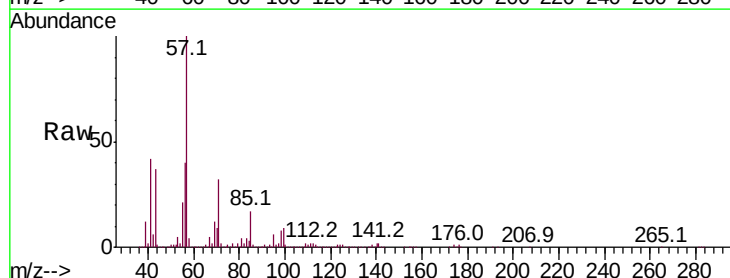
Tgt Ion: 95 Resp: 288264

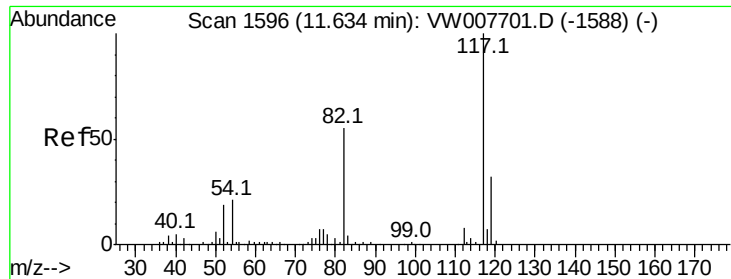
Ion Ratio Lower Upper

95 100

174 11.4 0.0 152.2

176 11.1 0.0 146.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampleId :

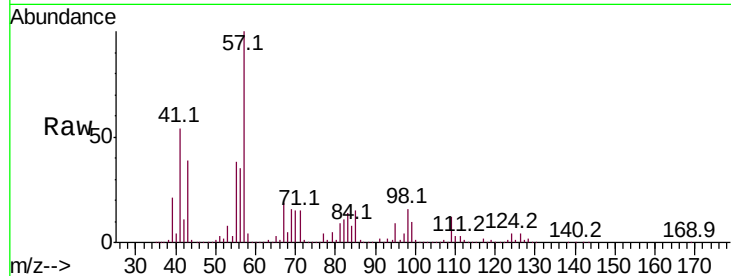
Tot Ion:117 Resp: 73409

Ion Ratio Lower Upper

117 100

82 263.6 44.3 66.5#

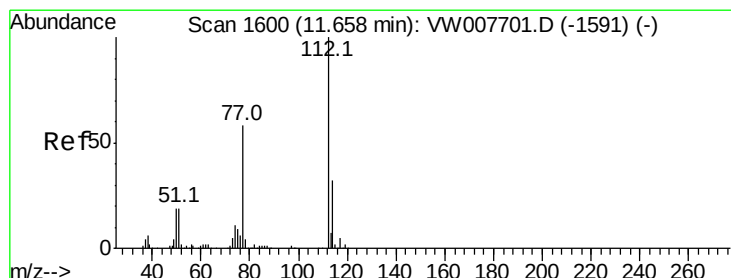
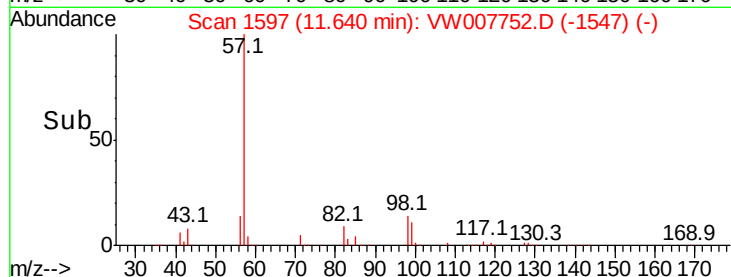
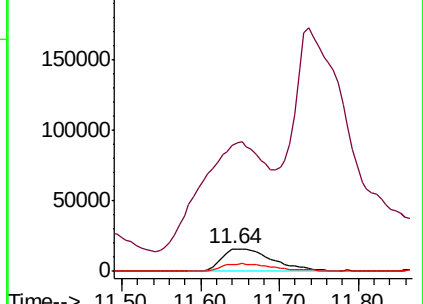
119 32.5 25.7 38.5



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



#65

Chlorobenzene

Concen: 303.908 ug/l

RT: 11.49 min Scan# 1572

Delta R.T. -0.17 min

Lab File: VW007752.D

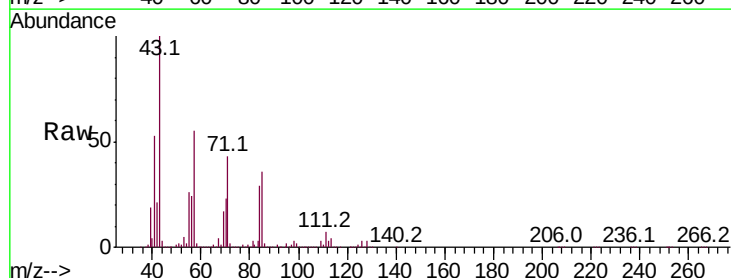
Acq: 20 Dec 2018 17:32

Tgt Ion:112 Resp: 482875

Ion Ratio Lower Upper

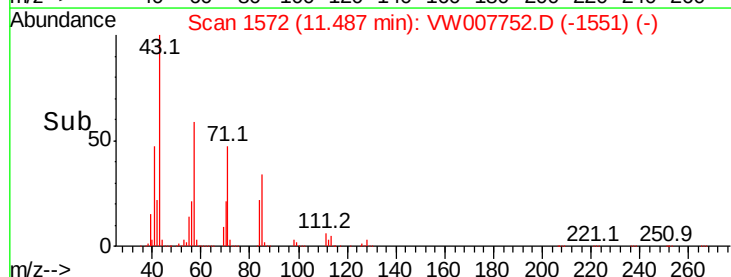
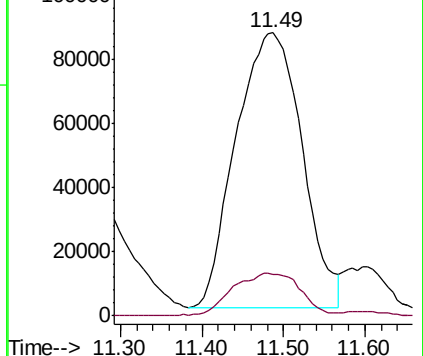
112 100

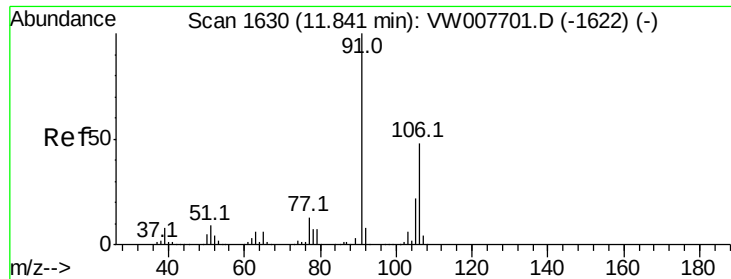
114 14.9 25.2 37.8#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

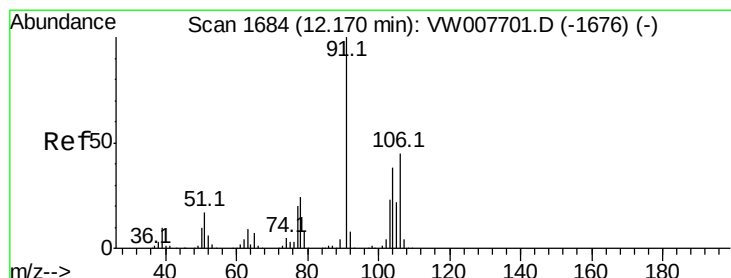
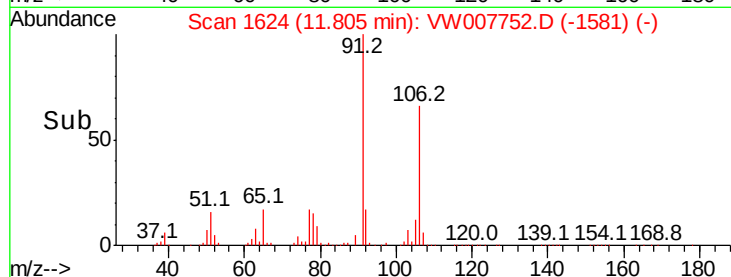
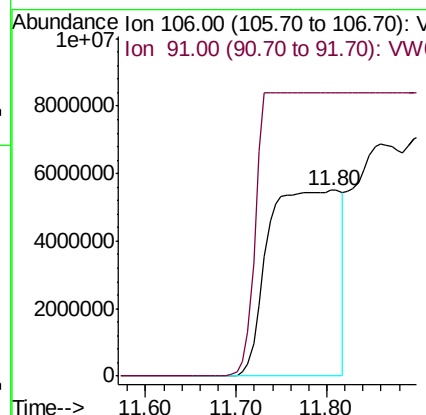
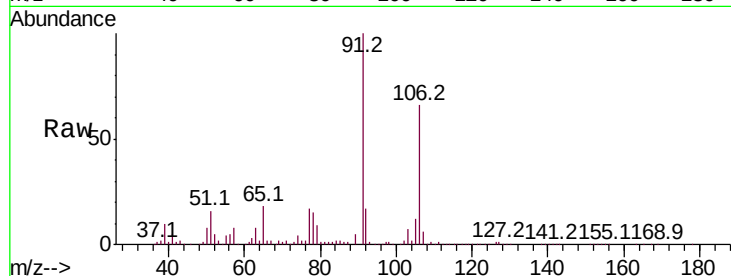




#68
m/p-Xylenes
Concen: 28344.354 ug/l
RT: 11.80 min Scan# 1624
Delta R.T. -0.04 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

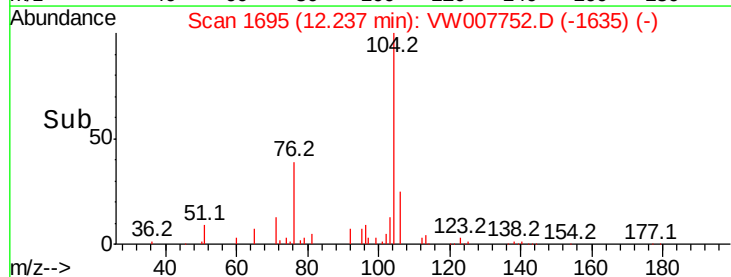
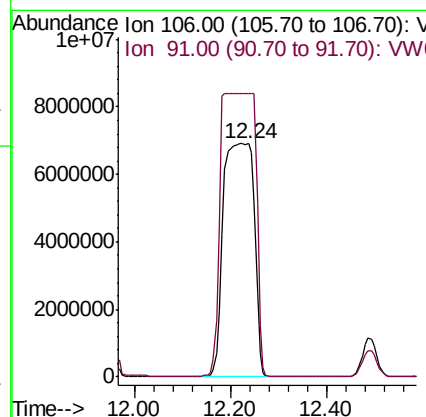
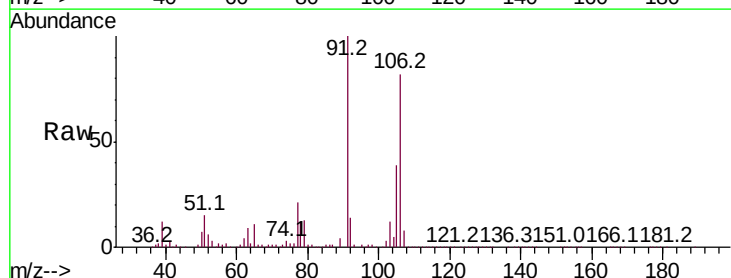
Instrument :
MSVOA_W
ClientSampled :

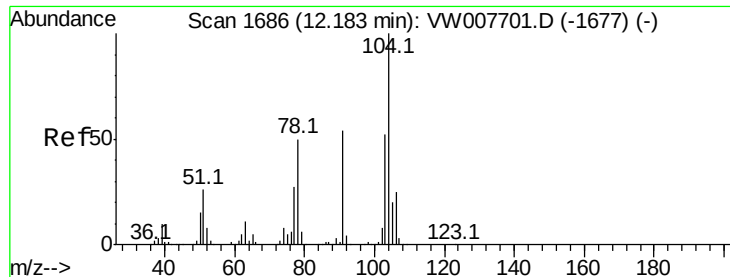
Tot Ion:106 Resp:29978578
Ion Ratio Lower Upper
106 100
91 0.0 165.2 247.8#



#69
o-Xylene
Concen: 30750.051 ug/l
RT: 12.24 min Scan# 1695
Delta R.T. 0.07 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

Tgt Ion:106 Resp:30486121
Ion Ratio Lower Upper
106 100
91 0.0 110.5 331.4#

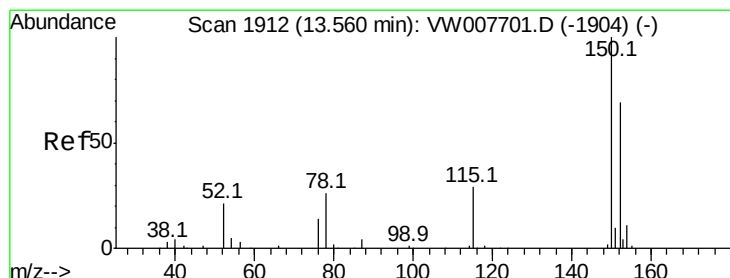
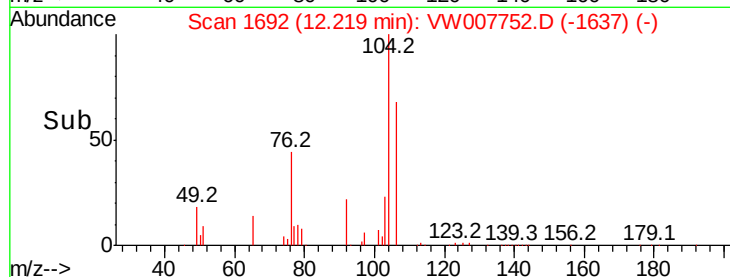
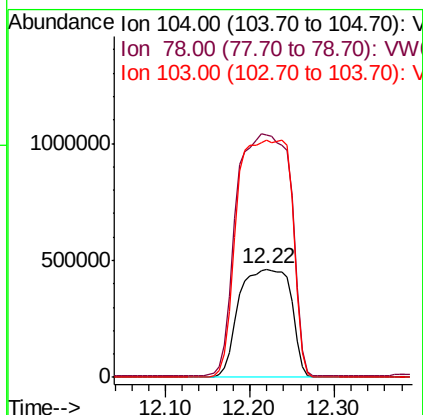
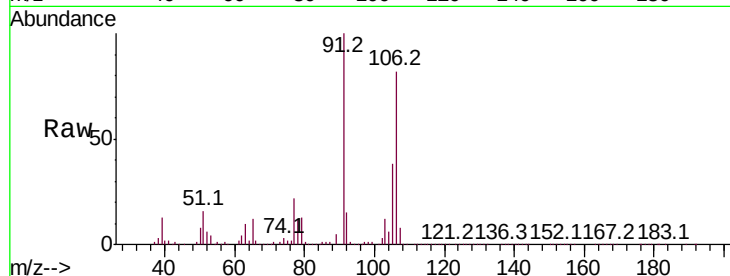




#70
Stvrene
Concen: 1182.487 ug/l
RT: 12.22 min Scan# 1692
Delta R.T. 0.04 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

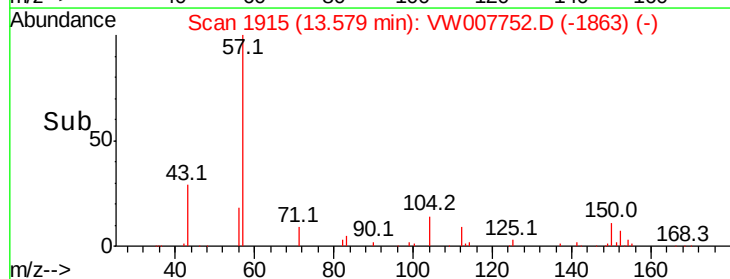
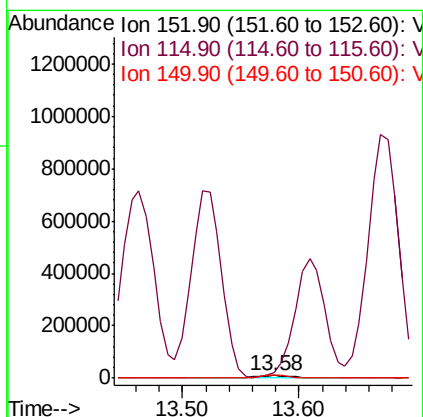
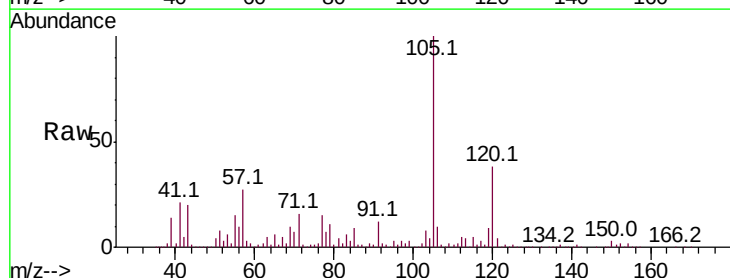
Instrument :
MSVOA_W
ClientSampleId :

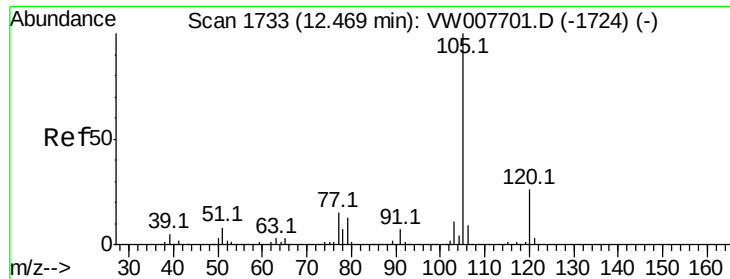
Tot Ion:104 Resp: 1927090
Ion Ratio Lower Upper
104 100
78 236.1 43.4 65.0#
103 230.0 44.5 66.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1915
Delta R.T. 0.02 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

Tgt Ion:152 Resp: 21727
Ion Ratio Lower Upper
152 100
115 0.0 31.8 95.4#
150 101.9 0.0 350.8





#73

Isopropylbenzene

Concen: 12713.745 ug/l

RT: 12.48 min Scan# 1735

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

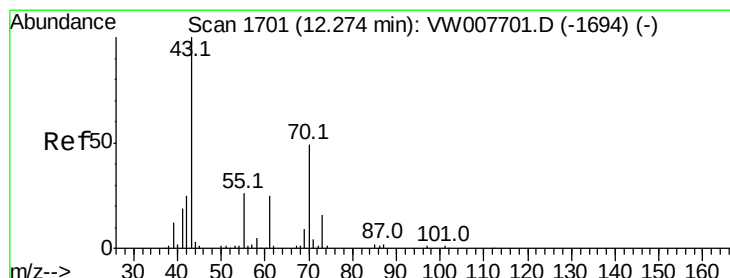
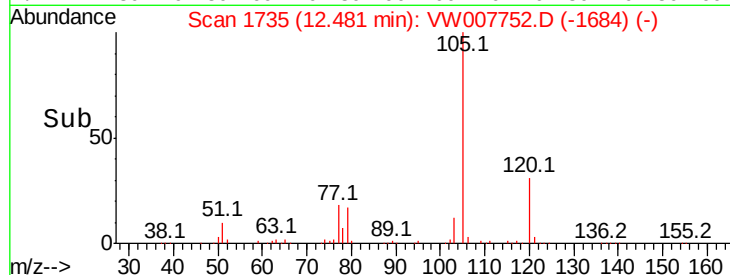
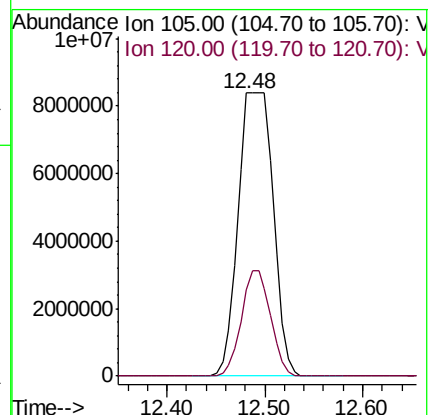
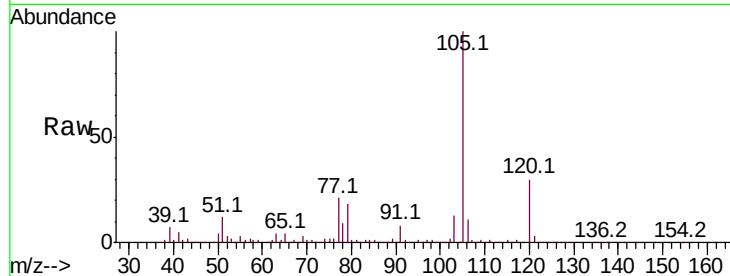
ClientSampleId :

Tot Ion:105 Resp:20880025

Ion Ratio Lower Upper

105 100

120 30.8 13.1 39.3



#74

N-amyl acetate

Concen: 5528.086 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Tgt Ion: 43 Resp: 1572595

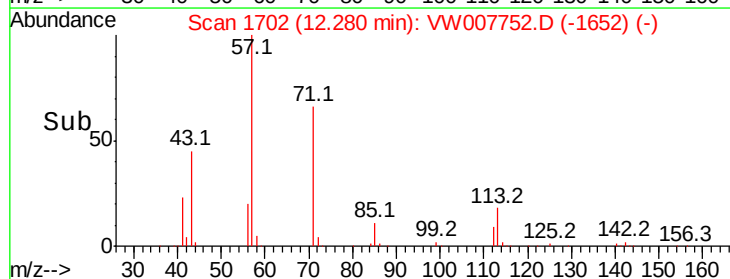
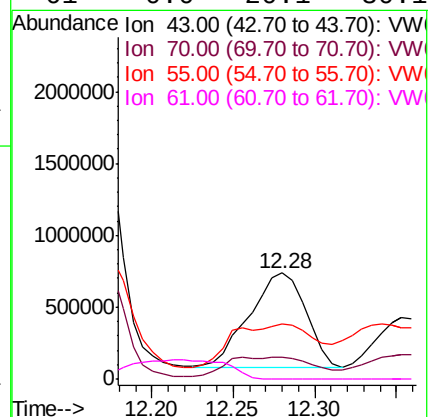
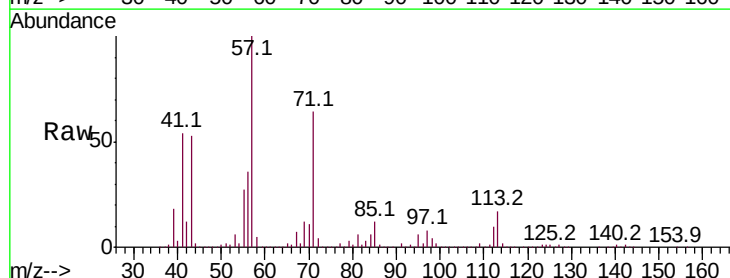
Ion Ratio Lower Upper

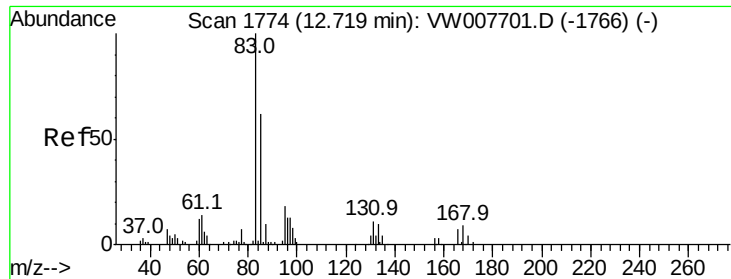
43 100

70 0.0 37.6 56.4#

55 69.3 21.7 32.5#

61 0.0 20.1 30.1#





#75

1,1,2,2-Tetrachloroethane

Concen: 694.727 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampleId :

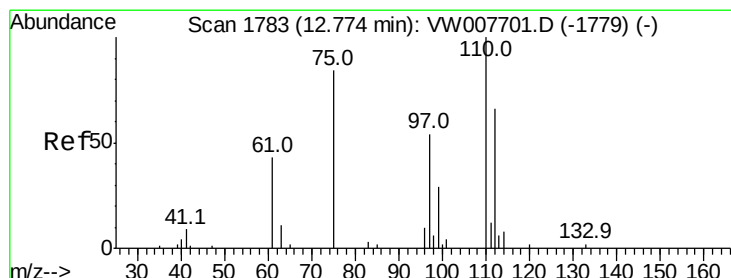
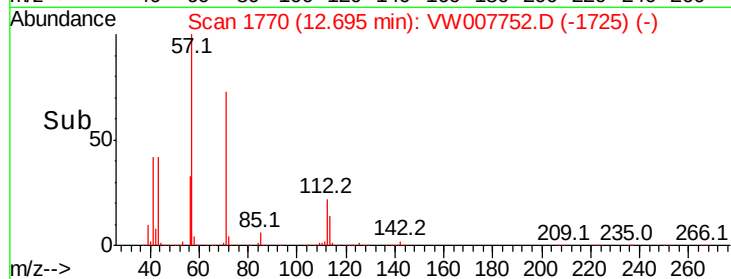
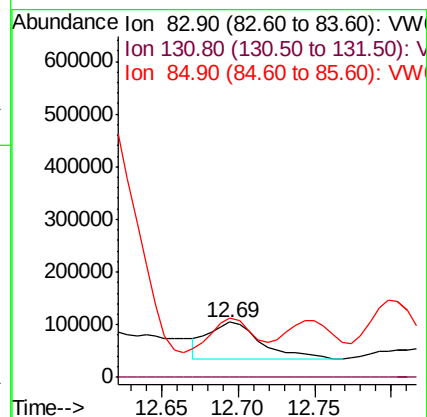
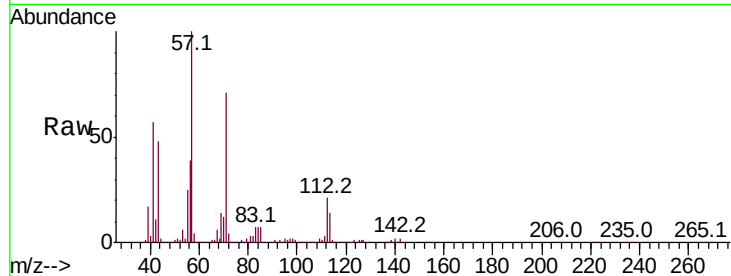
Tot Ion: 83 Resp: 171069

Ion Ratio Lower Upper

83 100

131 0.0 6.3 18.8#

85 70.8 32.3 96.8



#76

1,2,3-Trichloropropane

Concen: 1570.267 ug/l

RT: 12.83 min Scan# 1793

Delta R.T. 0.06 min

Lab File: VW007752.D

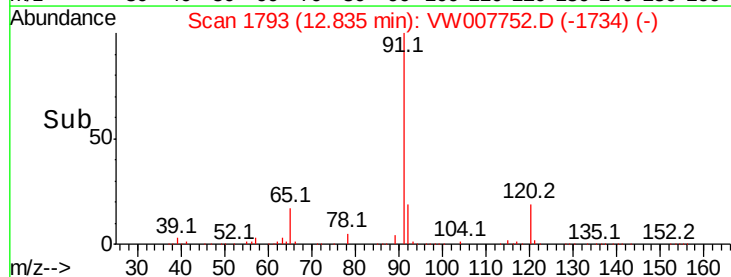
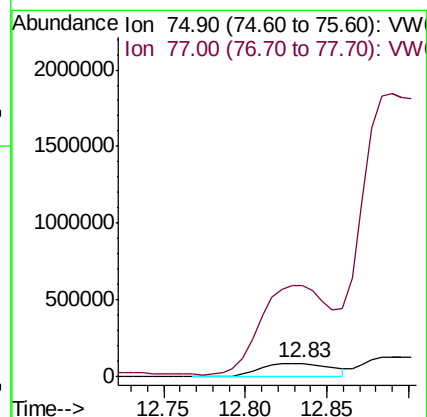
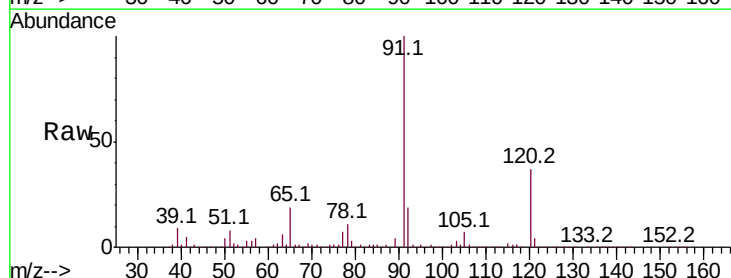
Acq: 20 Dec 2018 17:32

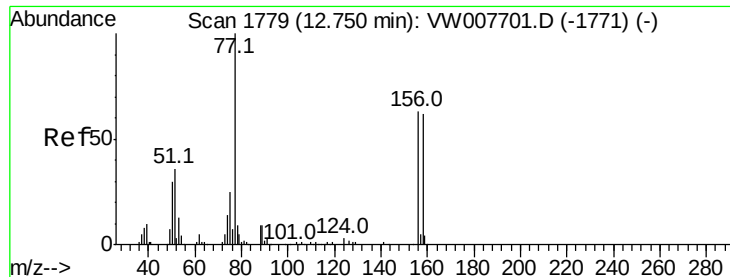
Tgt Ion: 75 Resp: 263694

Ion Ratio Lower Upper

75 100

77 615.4 0.0 0.0#





#77

Bromobenzene

Concen: 10.325 ug/l

RT: 12.76 min Scan# 1780

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampleId :

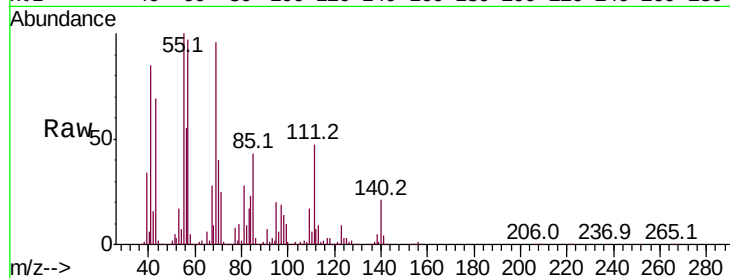
Tot Ion:156 Resp: 3886

Ion Ratio Lower Upper

156 100

77 0.0 87.4 262.1#

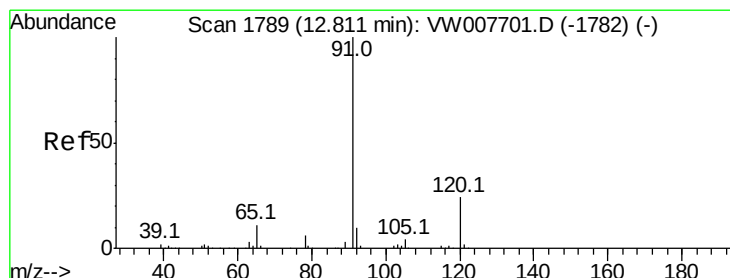
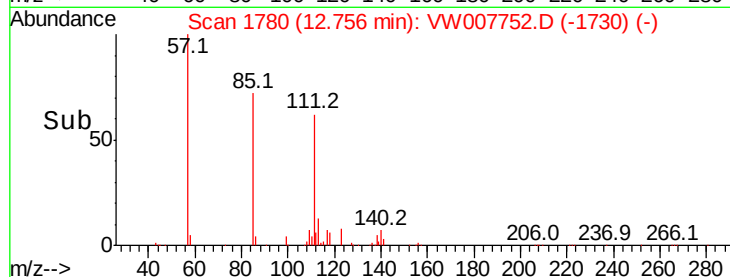
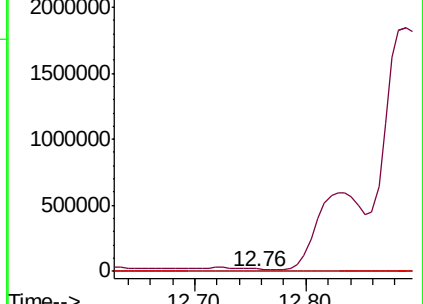
158 0.0 48.4 145.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1396.843 ug/l

RT: 12.98 min Scan# 1817

Delta R.T. 0.17 min

Lab File: VW007752.D

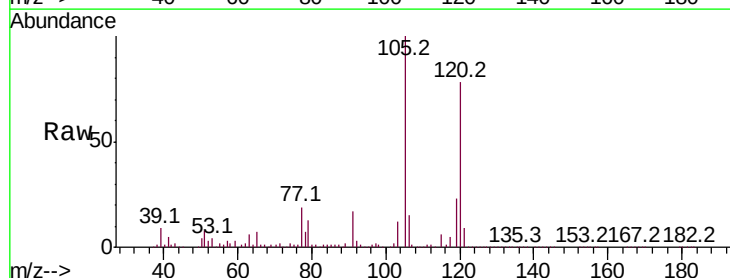
Acq: 20 Dec 2018 17:32

Tgt Ion: 91 Resp: 2670436

Ion Ratio Lower Upper

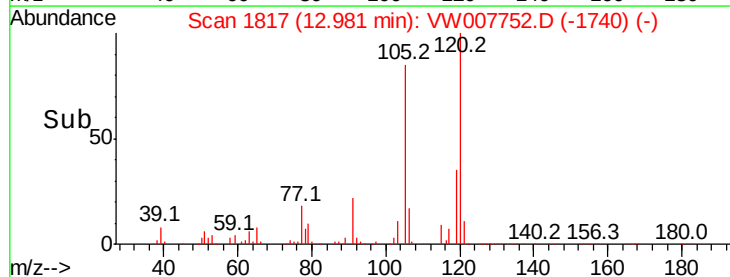
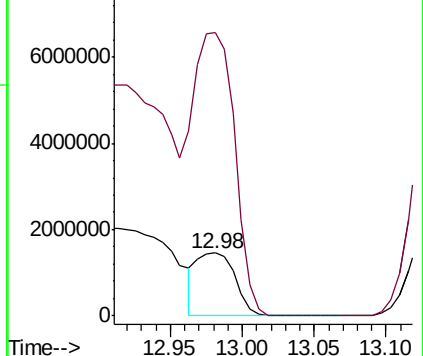
91 100

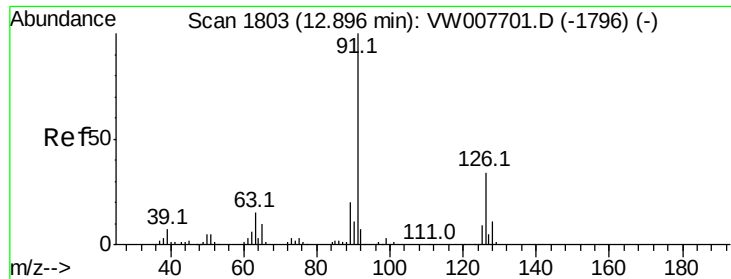
120 510.3 11.9 35.7#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2397.816 ug/l

RT: 12.98 min Scan# 1817

Delta R.T. 0.09 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

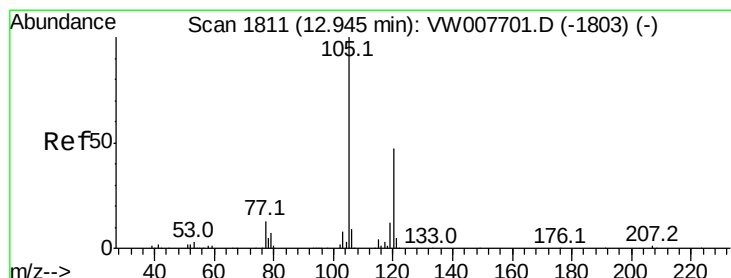
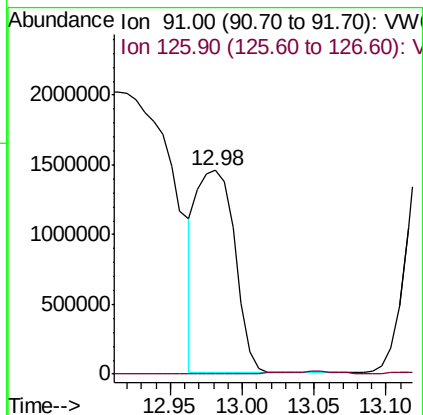
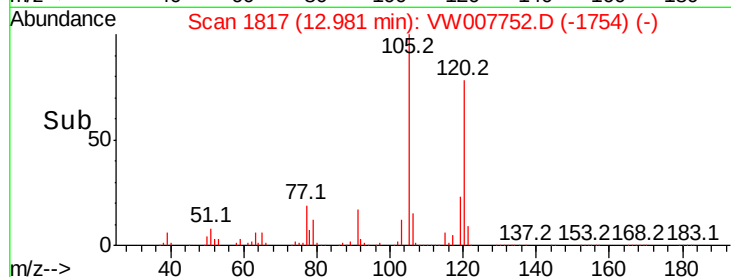
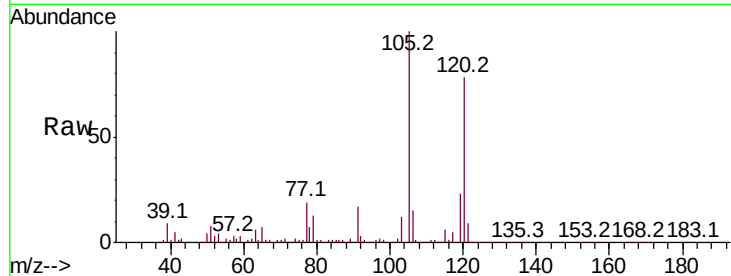
ClientSampleId :

Tot Ion: 91 Resp: 2670436

Ion Ratio Lower Upper

91 100

126 0.3 17.0 51.0#



#80

1,3,5-Trimethylbenzene

Concen: 15674.139 ug/l

RT: 13.12 min Scan# 1840

Delta R.T. 0.18 min

Lab File: VW007752.D

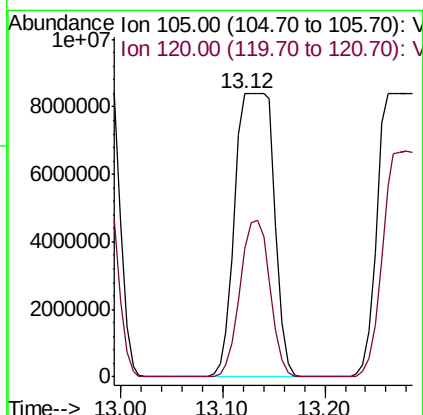
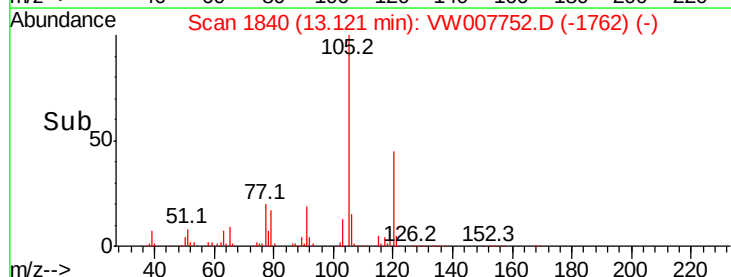
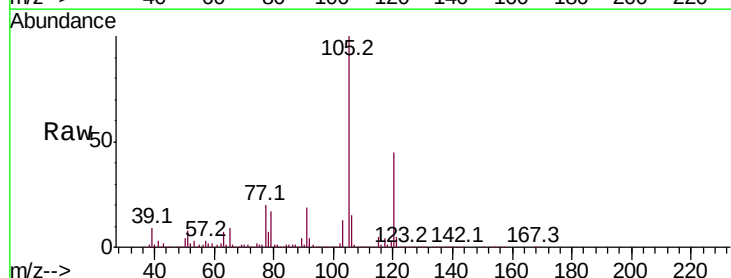
Acq: 20 Dec 2018 17:32

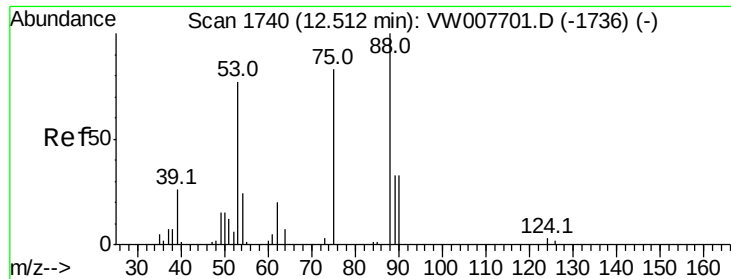
Tgt Ion:105 Resp:22204272

Ion Ratio Lower Upper

105 100

120 42.4 23.6 70.8

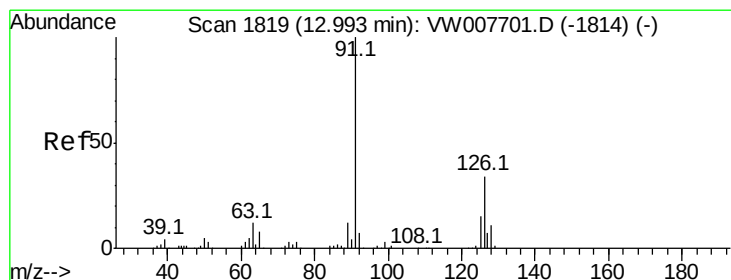
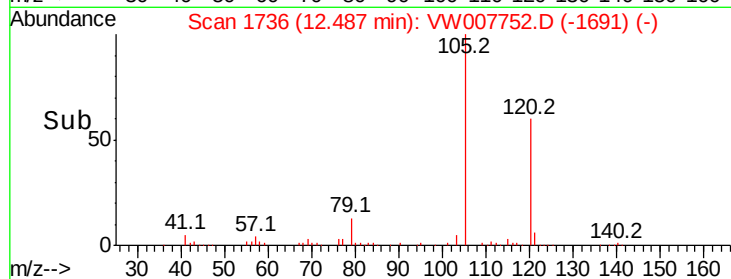
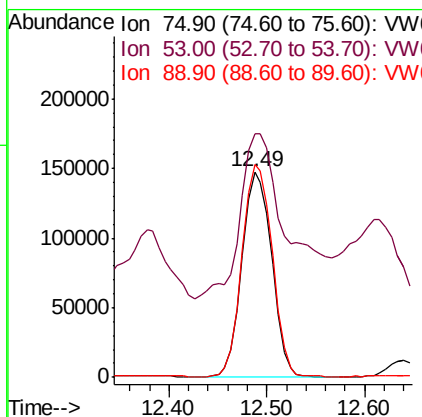
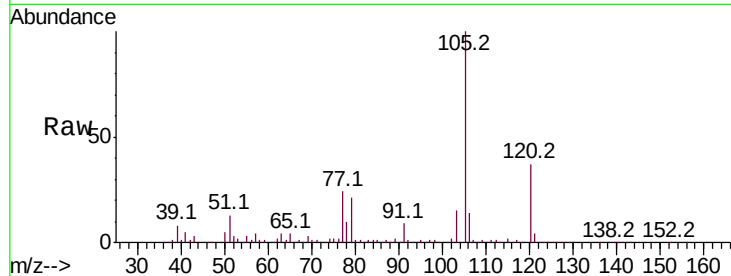




#81
trans-1,4-Dichloro-2-butene
Concen: 3880.393 ug/l
RT: 12.49 min Scan# 1736
Delta R.T. -0.02 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

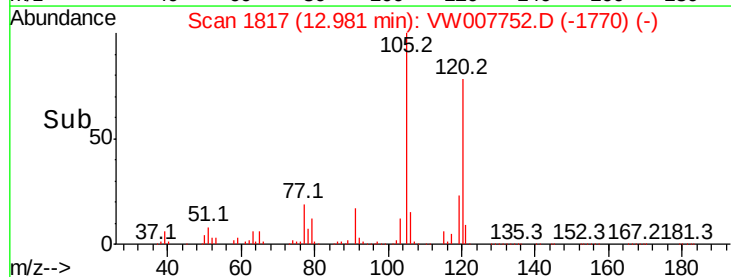
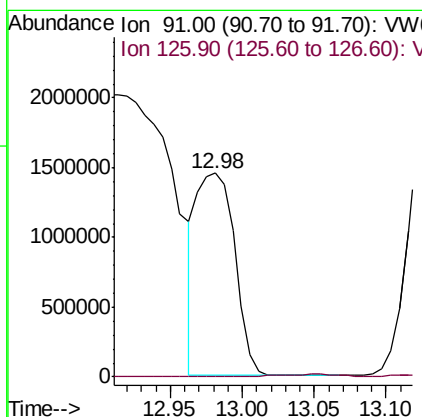
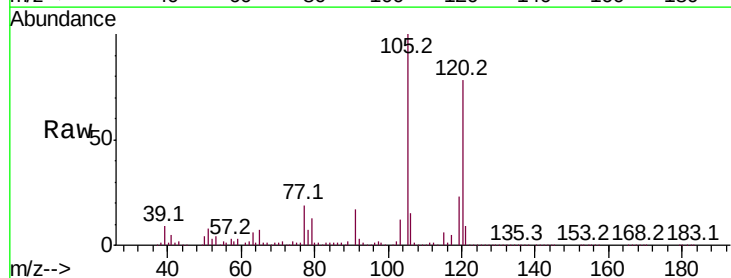
Instrument :
MSVOA_W
ClientSampled :

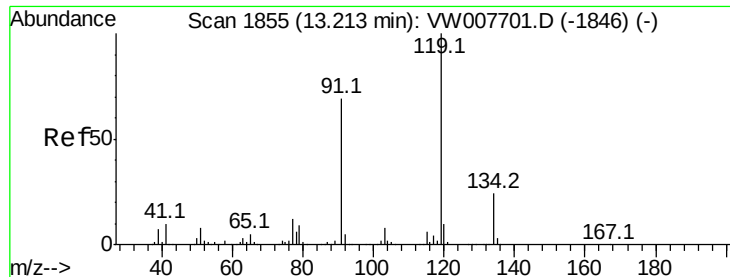
Tot Ion: 75 Resp: 310438
Ion Ratio Lower Upper
75 100
53 129.6 80.2 120.2#
89 104.7 39.2 58.8#



#82
4-Chlorotoluene
Concen: 2251.969 ug/l
RT: 12.98 min Scan# 1817
Delta R.T. -0.01 min
Lab File: VW007752.D
Acq: 20 Dec 2018 17:32

Tgt Ion: 91 Resp: 2670436
Ion Ratio Lower Upper
91 100
126 0.3 16.5 49.5#

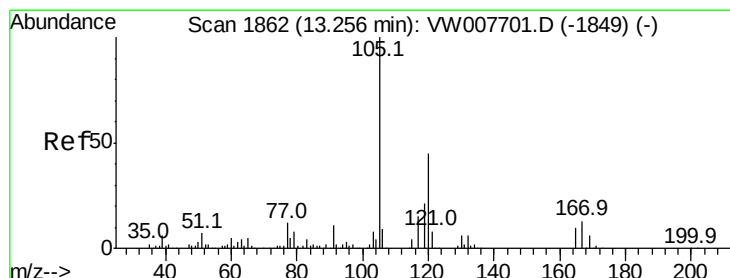
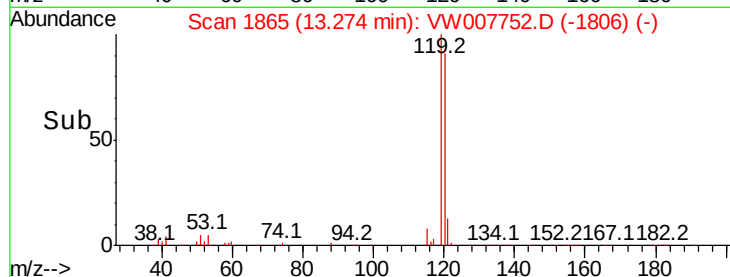
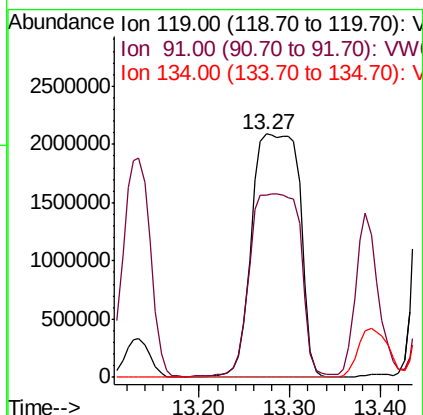
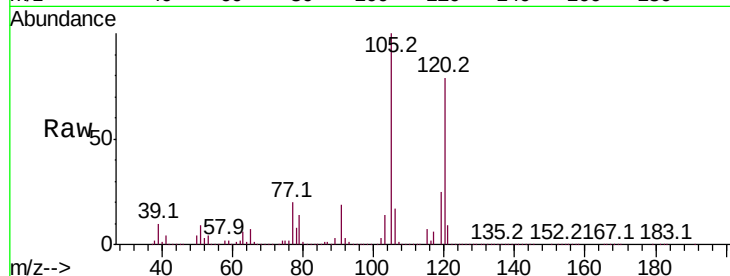




#83
 tert-Butylbenzene
 Concen: 6083.388 ug/l
 RT: 13.27 min Scan# 1865
 Delta R.T. 0.06 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

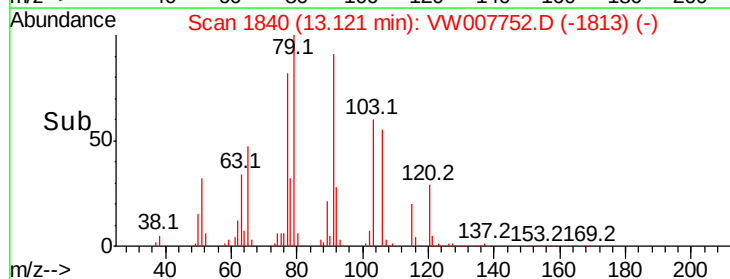
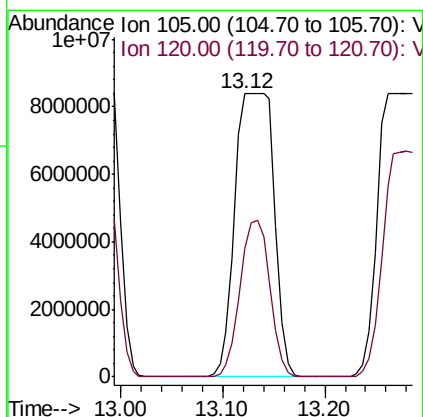
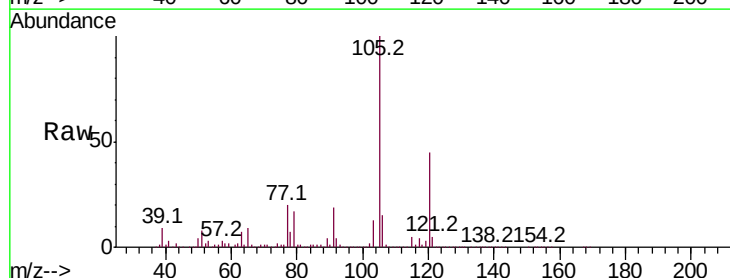
Instrument :
 MSVOA_W
 ClientSampled :

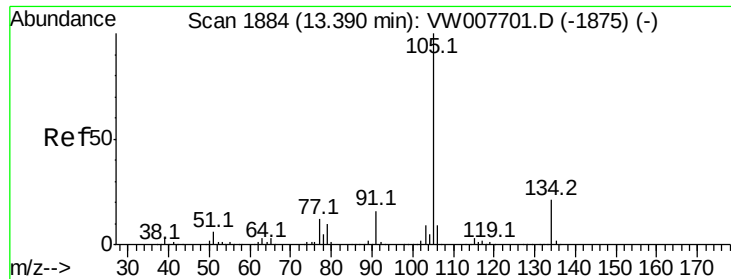
Tot Ion:119 Resp: 7561491
 Ion Ratio Lower Upper
 119 100
 91 78.8 34.2 102.5
 134 0.0 12.8 38.4#



#84
 1,2,4-Trimethylbenzene
 Concen: 15533.472 ug/l
 RT: 13.12 min Scan# 1840
 Delta R.T. -0.13 min
 Lab File: VW007752.D
 Acq: 20 Dec 2018 17:32

Tgt Ion:105 Resp:22204272
 Ion Ratio Lower Upper
 105 100
 120 42.4 22.0 66.0





#85

sec-Butylbenzene

Concen: 1288.009 ug/l

RT: 13.40 min Scan# 1886

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

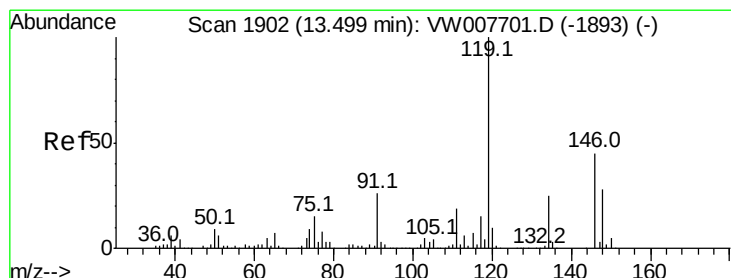
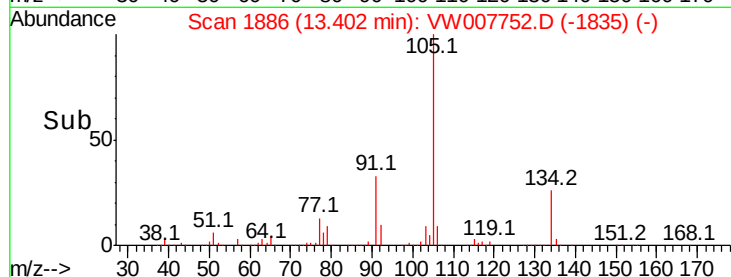
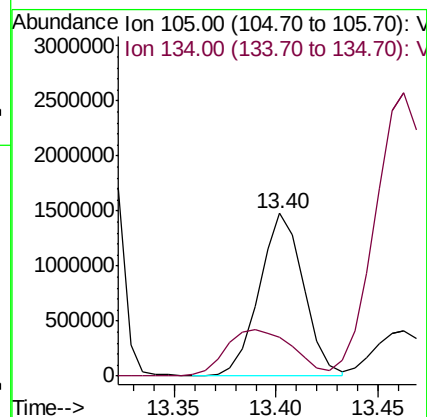
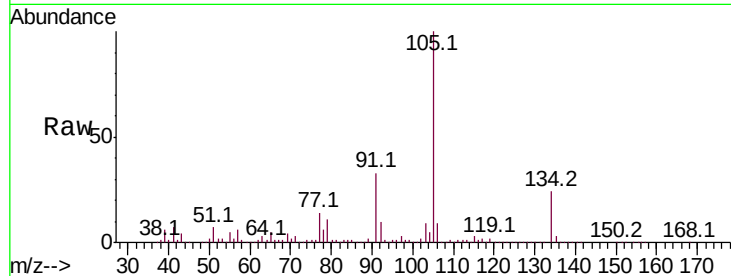
ClientSampled :

Tot Ion:105 Resp: 2206415

Ion Ratio Lower Upper

105 100

134 44.3 10.2 30.4#



#86

p-Isopropyltoluene

Concen: 9788.087 ug/l

RT: 13.52 min Scan# 1905

Delta R.T. 0.02 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

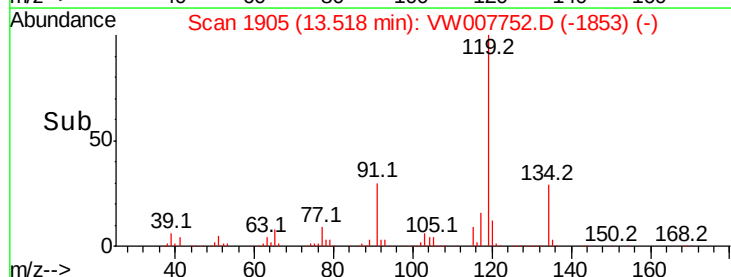
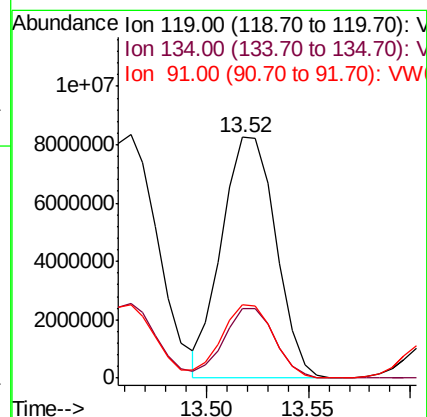
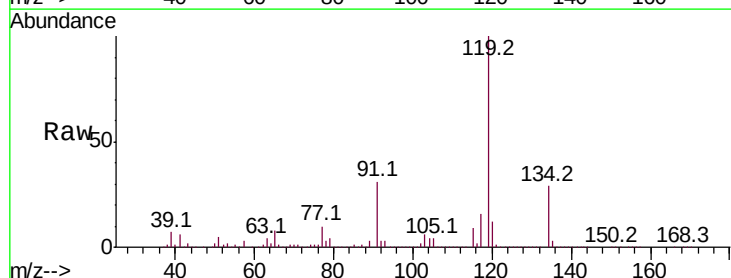
Tgt Ion:119 Resp:15246840

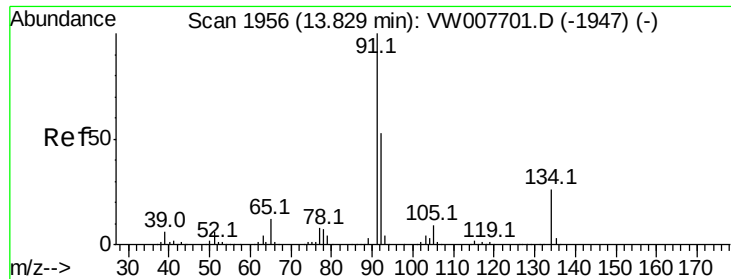
Ion Ratio Lower Upper

119 100

134 27.1 13.0 39.0

91 28.9 12.8 38.4





#89

n-Butylbenzene

Concen: 1791.662 ug/l

RT: 13.83 min Scan# 1957

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampleId :

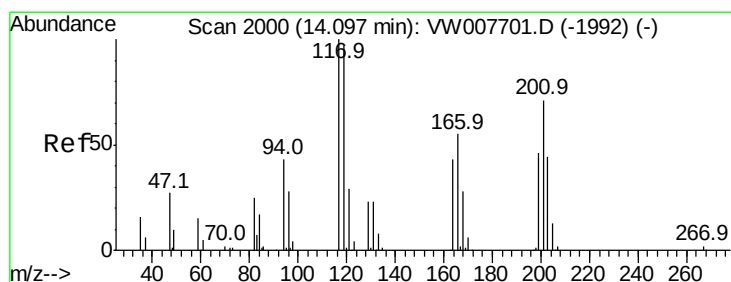
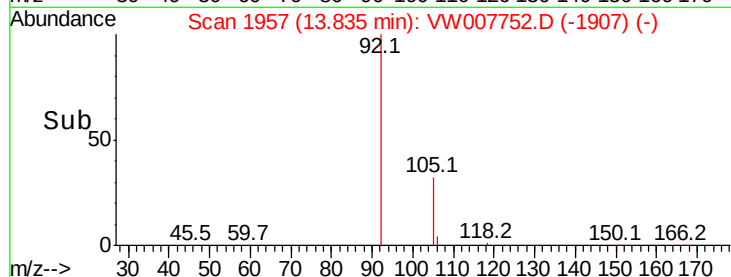
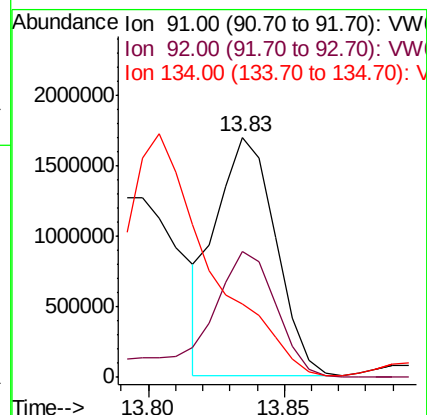
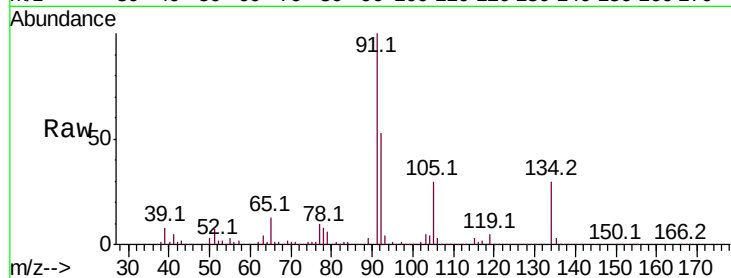
Tot Ion: 91 Resp: 2558873

Ion Ratio Lower Upper

91 100

92 55.9 26.4 79.2

134 0.0 13.7 41.0#



#90

Hexachloroethane

Concen: 2102.384 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW007752.D

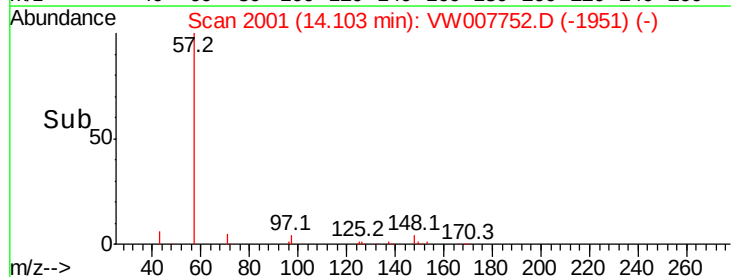
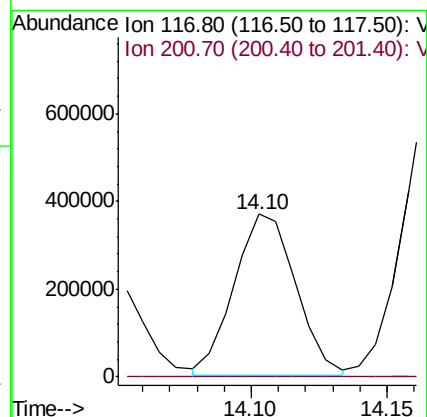
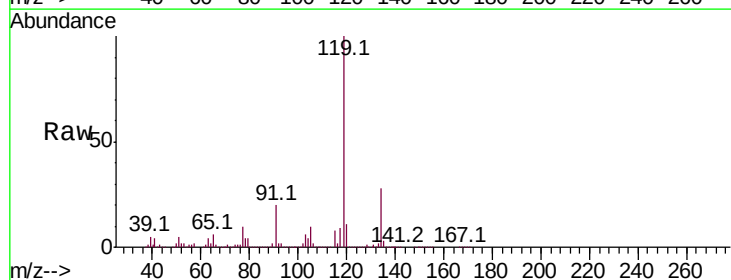
Acq: 20 Dec 2018 17:32

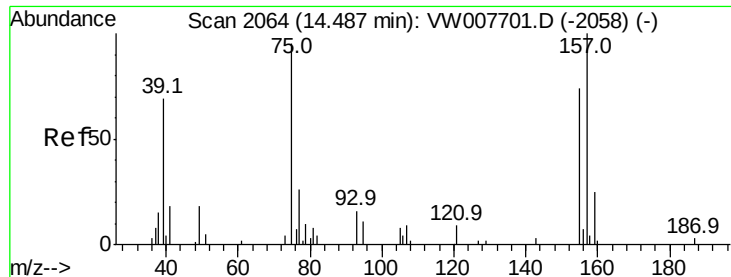
Tgt Ion: 117 Resp: 574939

Ion Ratio Lower Upper

117 100

201 0.0 36.2 108.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 75.185 ug/l

RT: 14.50 min Scan# 2066

Delta R.T. 0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

Instrument :

MSVOA_W

ClientSampled :

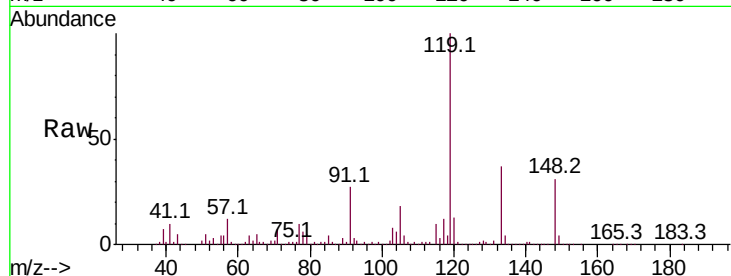
Tot Ion: 75 Resp: 3802

Ion Ratio Lower Upper

75 100

155 10.7 39.4 118.1#

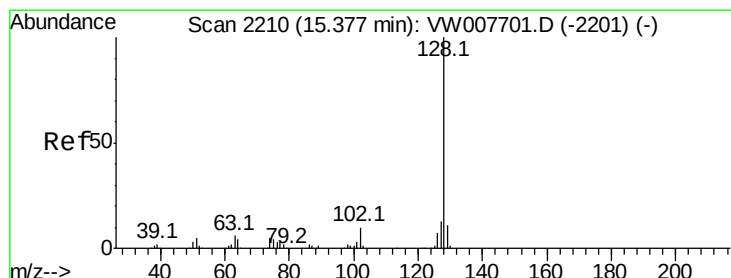
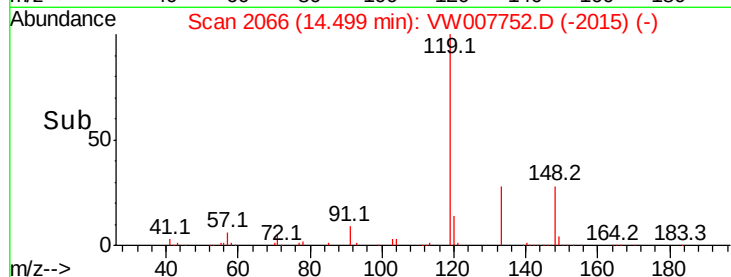
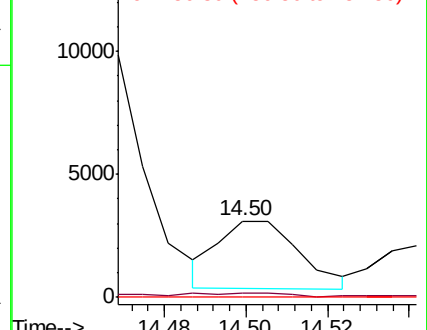
157 0.0 52.0 156.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 1660.594 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW007752.D

Acq: 20 Dec 2018 17:32

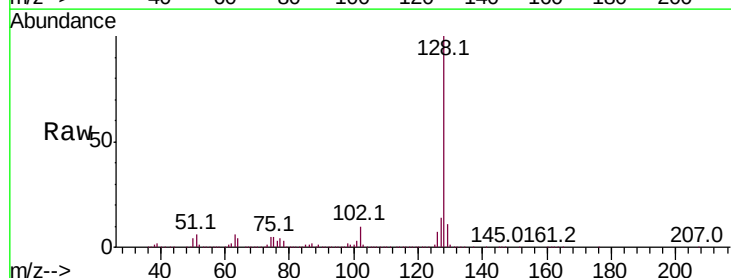
Tgt Ion:128 Resp: 1425910

Ion Ratio Lower Upper

128 100

127 13.5 10.7 16.1

129 11.0 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

