

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122518\
 Data File : VW007887.D
 Acq On : 24 Dec 2018 14:33
 Operator : SY/AP
 Sample : J6426-01RE
 Misc : 5.06G/5ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

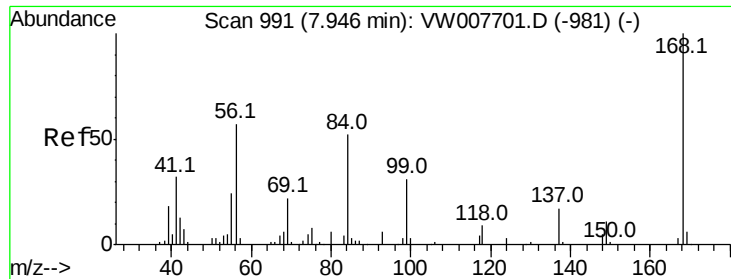
Quant Time: Dec 25 02:02:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	42714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	77353	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	33389	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	6841	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	34949	74.65	ug/l	0.00
Spiked Amount			Recovery	=	149.30%	
35) Dibromofluoromethane	7.89	113	29490	62.49	ug/l	0.00
Spiked Amount			Recovery	=	124.98%	
50) Toluene-d8	10.32	98	55322	31.10	ug/l	0.00
Spiked Amount			Recovery	=	62.20%	
62) 4-Bromofluorobenzene	12.62	95	12076	17.57	ug/l	0.00
Spiked Amount			Recovery	=	35.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.13	43	1350	15.399	ug/l #	89
18) Methyl Acetate	4.66	43	224	1.074	ug/l #	46
20) Methylene Chloride	4.92	84	1379	Below Cal	#	86
31) Cyclohexane	7.95	56	895	1.284	ug/l #	12
36) 1,1-Dichloropropene	7.95	75	3359	4.499	ug/l #	48
38) Carbon Tetrachloride	7.95	117	4511	5.130	ug/l #	16
52) Toluene	10.38	92	4352	3.256	ug/l	94
55) 1,1,2-Trichloroethane	10.76	97	2690	7.171	ug/l #	17
56) Ethyl methacrylate	10.66	69	1071	2.416	ug/l #	16
59) 2-Hexanone	10.94	43	686	3.998	ug/l #	24
68) m/p-Xylenes	11.84	106	1798	3.738	ug/l	98
69) o-Xylene	12.17	106	547	1.213	ug/l	99
74) N-amyl acetate	12.26	43	1389	15.507	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.69	83	407	5.249	ug/l #	36
76) 1,2,3-Trichloropropane	12.62	75	6203	117.315	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.95	105	1201	2.693	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.62	75	6203	246.254	ug/l #	13
83) tert-Butylbenzene	13.44	119	1110	2.836	ug/l	73
84) 1,2,4-Trimethylbenzene	13.26	105	2844	6.319	ug/l	76
85) sec-Butylbenzene	13.39	105	846	1.568	ug/l	90
90) Hexachloroethane	14.10	117	130	1.510	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.21	75	53	3.329	ug/l #	3
95) Naphthalene	15.38	128	1261	4.664	ug/l #	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

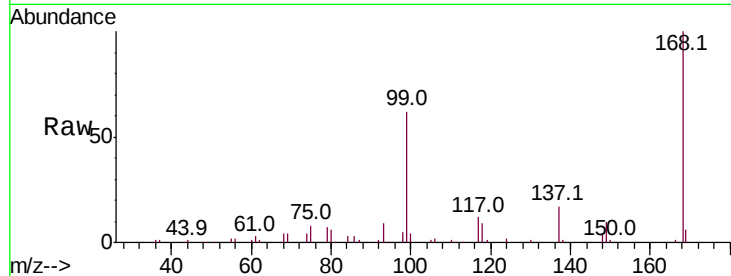
ClientSampleId :

Tot Ion:168 Resp: 42714

Ion Ratio Lower Upper

168 100

99 62.4 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

20000

15000

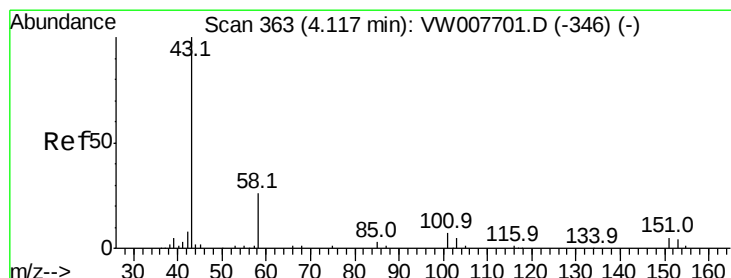
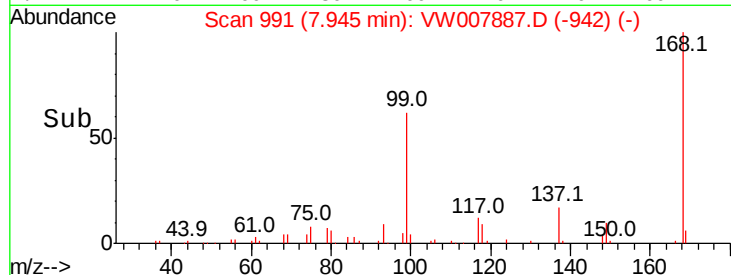
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#16

Acetone

Concen: 15.399 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW007887.D

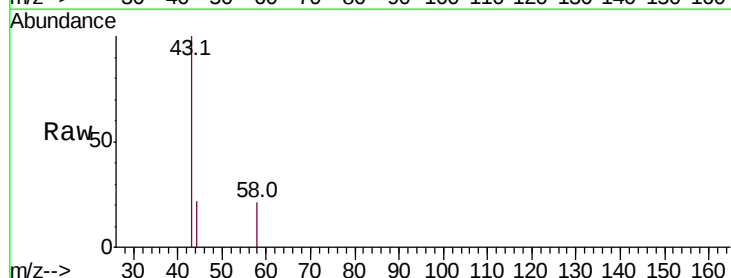
Acq: 24 Dec 2018 14:33

Tgt Ion: 43 Resp: 1350

Ion Ratio Lower Upper

43 100

58 20.9 21.2 31.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

600

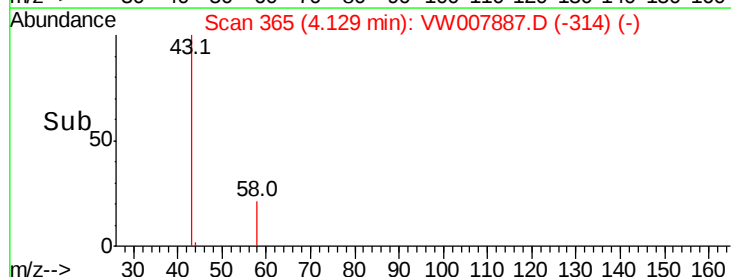
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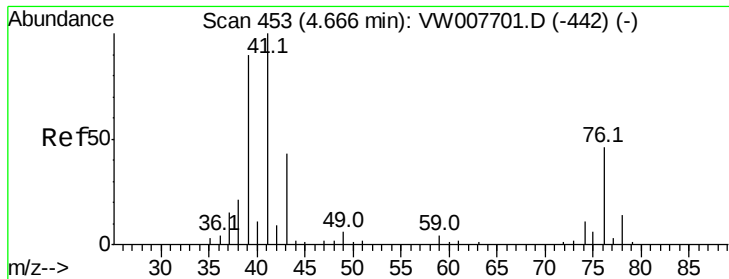
200

0

4.05 4.10 4.15 4.20

Time-->





#18

Methyl Acetate

Concen: 1.074 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

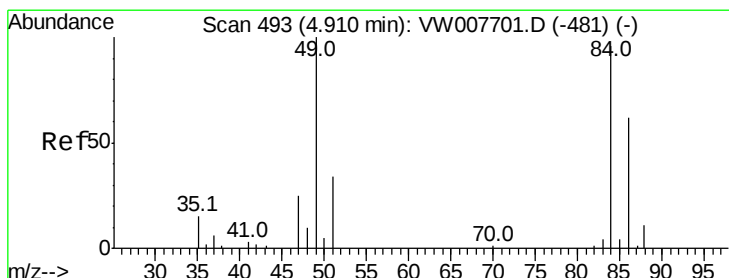
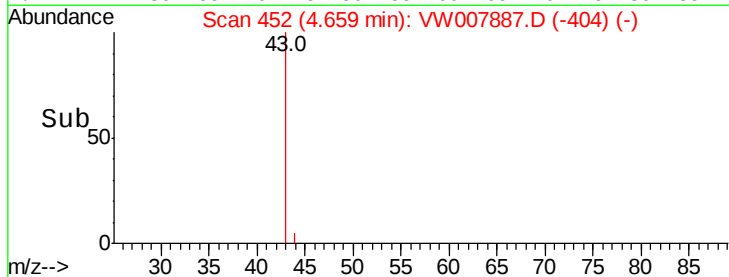
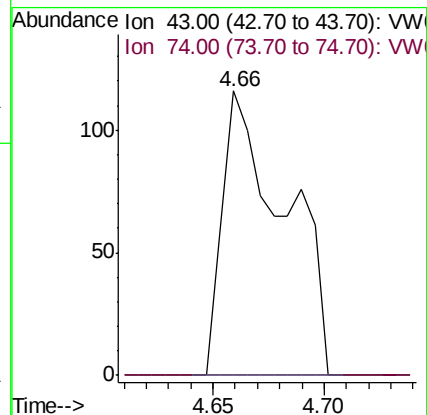
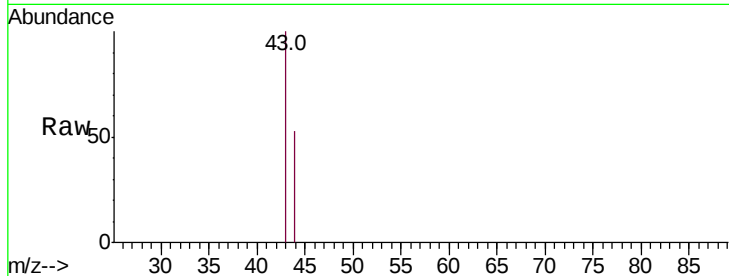
ClientSampled :

Tot Ion: 43 Resp: 224

Ion Ratio Lower Upper

43 100

74 0.0 22.7 34.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Tgt Ion: 84 Resp: 1379

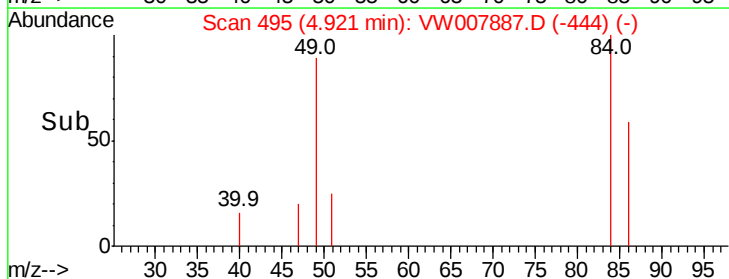
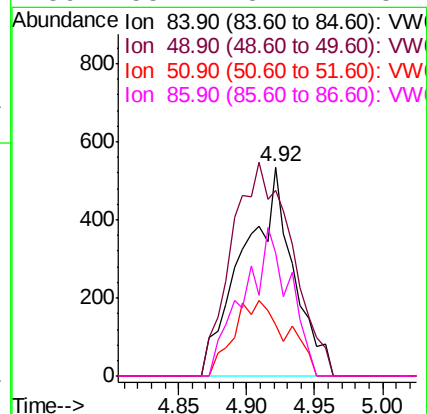
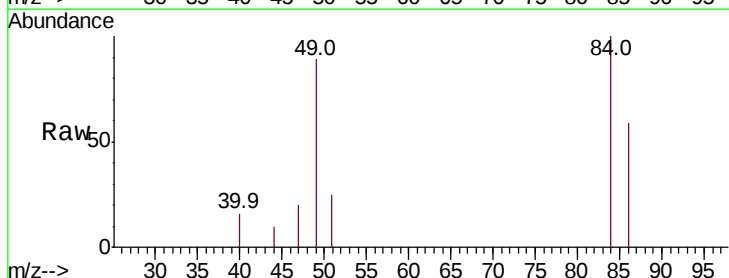
Ion Ratio Lower Upper

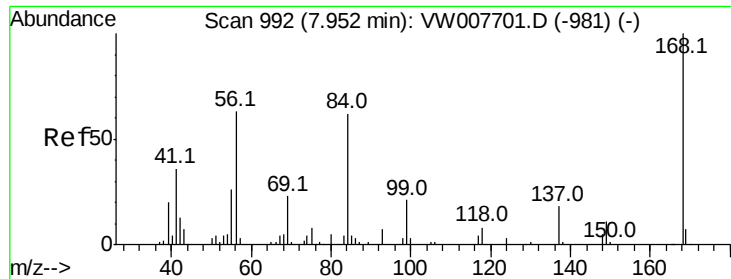
84 100

49 88.8 83.7 125.5

51 24.9 28.2 42.2#

86 58.7 52.2 78.2

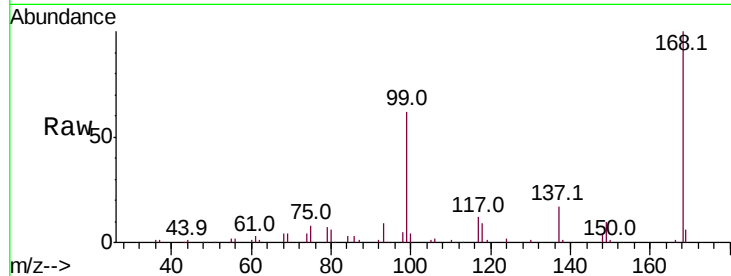




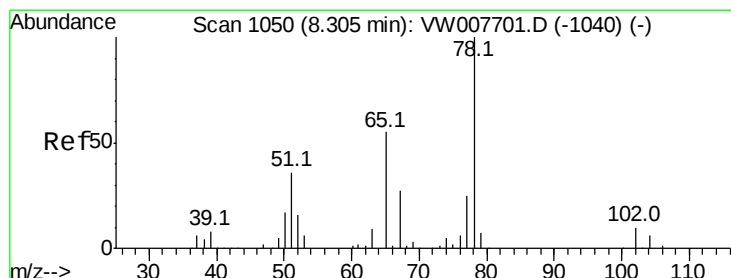
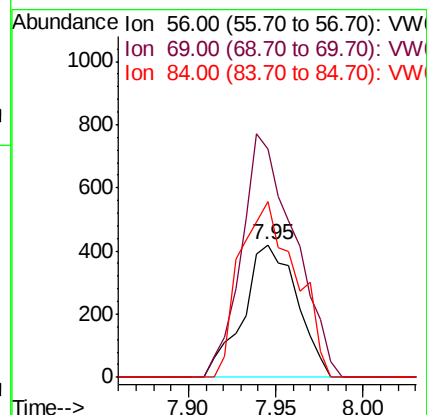
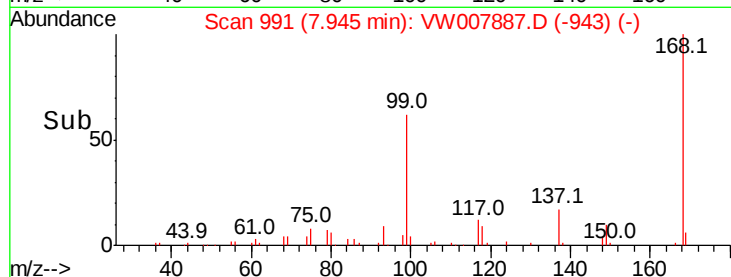
#31
Cyclohexane
Concen: 1.284 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW007887.D
Acq: 24 Dec 2018 14:33

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 895
Ion Ratio Lower Upper
56 100
69 172.8 29.7 44.5#
84 133.2 78.9 118.3#

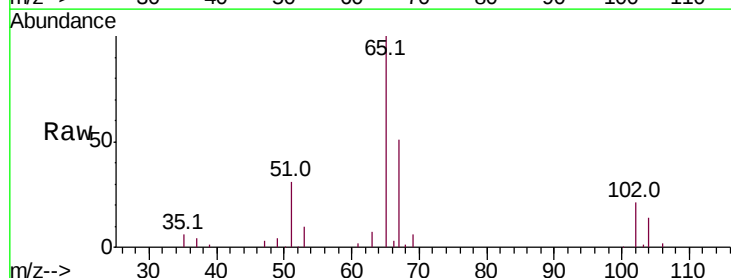


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

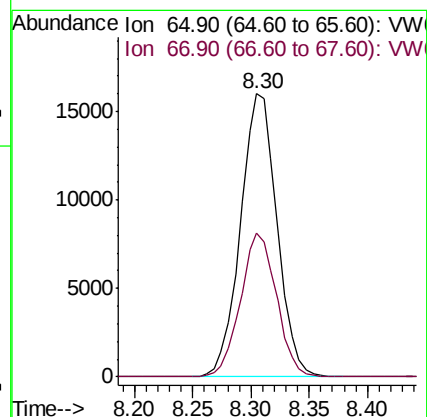
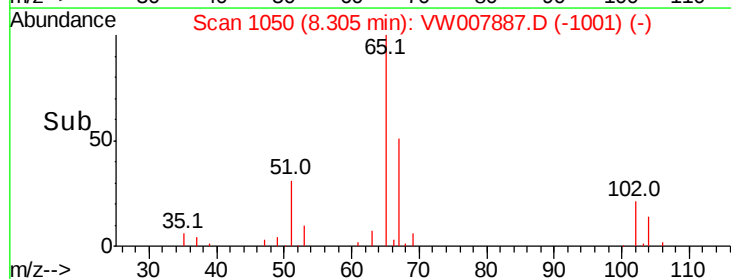


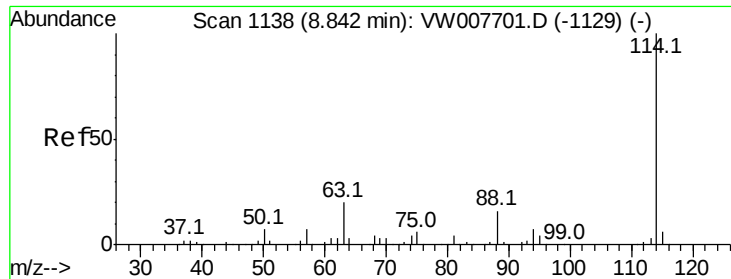
#33
1,2-Dichloroethane-d4
Concen: 74.651 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW007887.D
Acq: 24 Dec 2018 14:33

Tgt Ion: 65 Resp: 34949
Ion Ratio Lower Upper
65 100
67 50.1 0.0 100.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

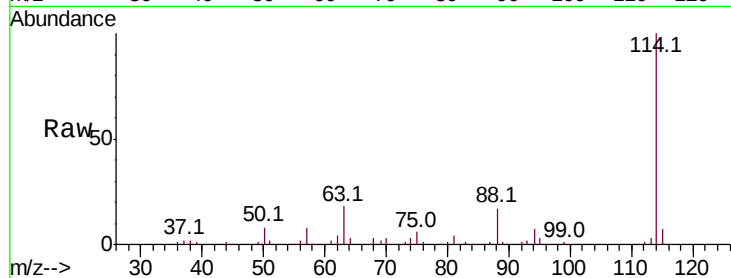




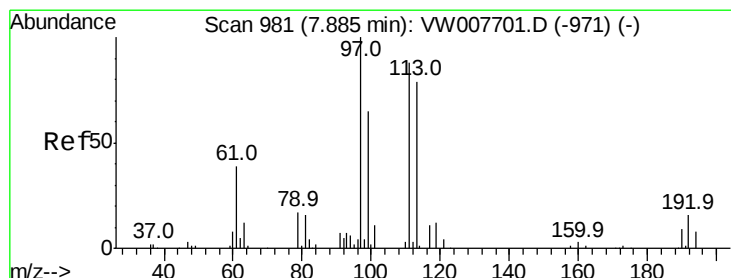
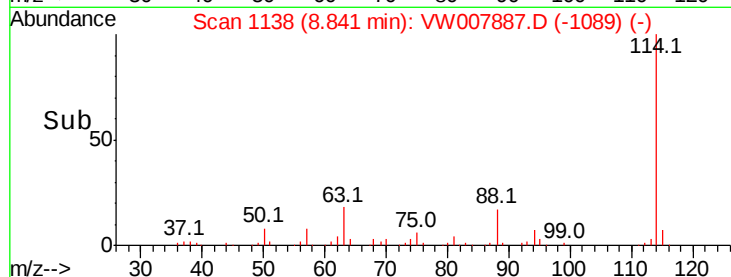
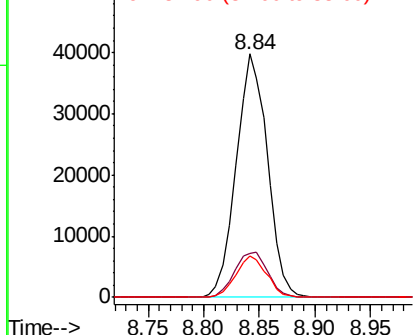
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007887.D
 Acq: 24 Dec 2018 14:33

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:114 Resp: 77353
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 40.0
 88 17.0 0.0 32.6

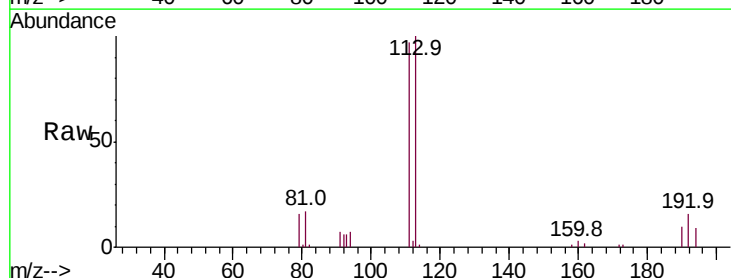


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

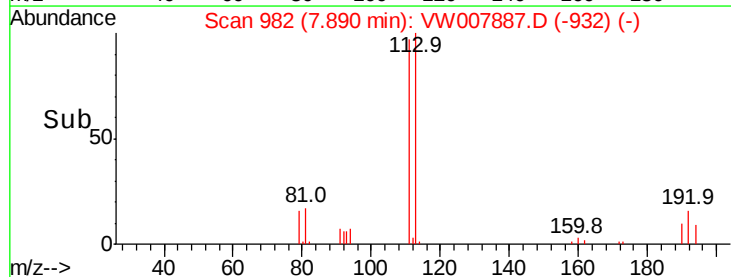
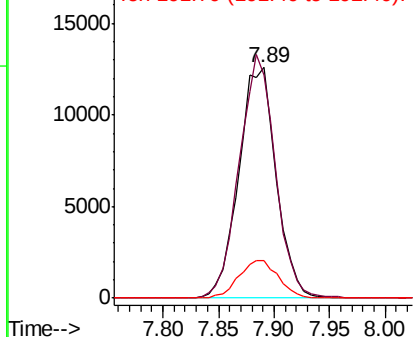


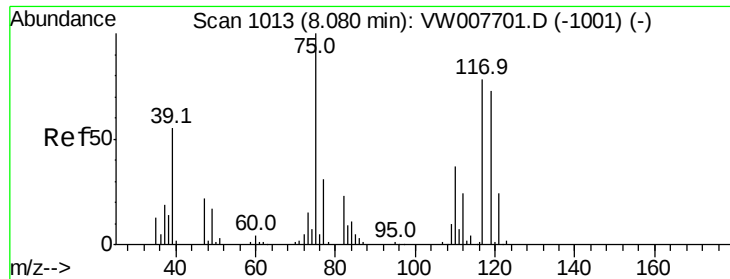
#35
 Dibromofluoromethane
 Concen: 62.493 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW007887.D
 Acq: 24 Dec 2018 14:33

Tgt Ion:113 Resp: 29490
 Ion Ratio Lower Upper
 113 100
 111 101.1 82.6 124.0
 192 17.3 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

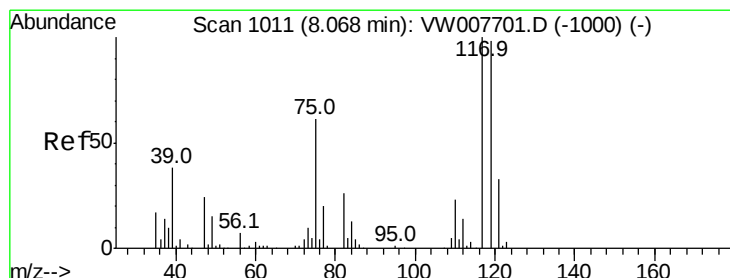
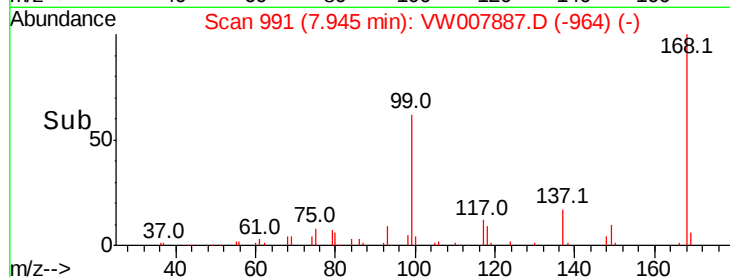
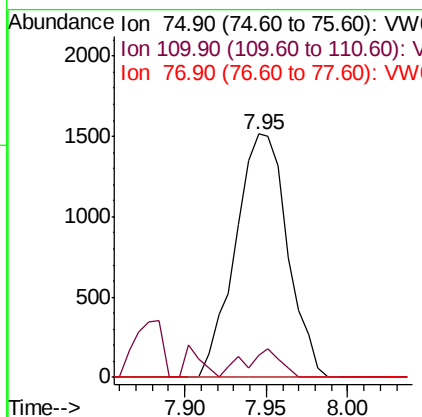
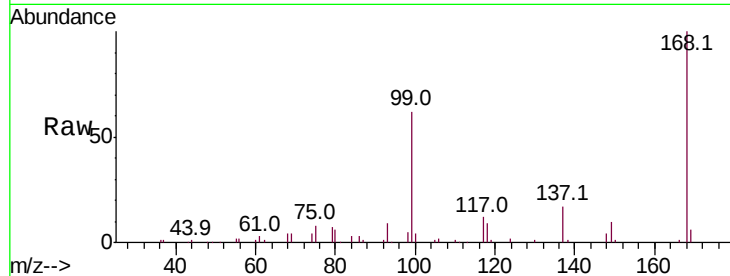




#36
 1,1-Dichloropropene
 Concen: 4.499 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW007887.D
 Acq: 24 Dec 2018 14:33

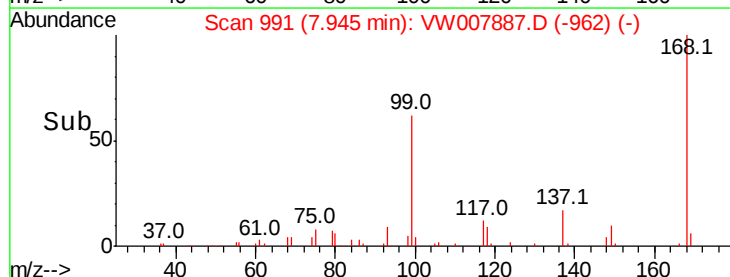
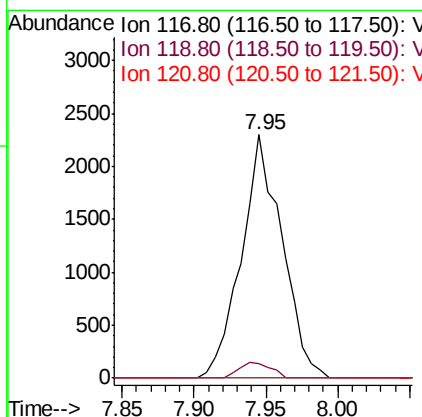
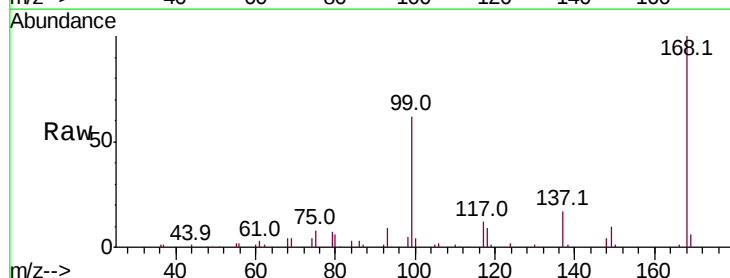
Instrument :
 MSVOA_W
 ClientSampleId :

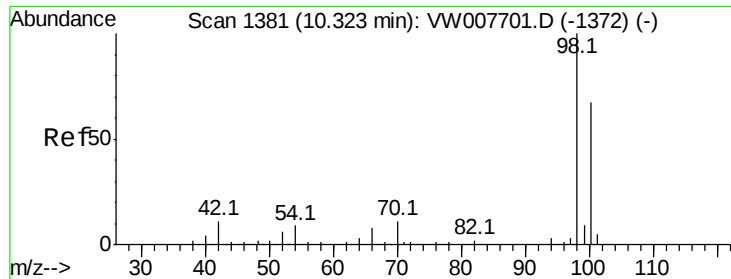
Tot Ion: 75 Resp: 3359
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.6 55.8#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.130 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW007887.D
 Acq: 24 Dec 2018 14:33

Tgt Ion: 117 Resp: 4511
 Ion Ratio Lower Upper
 117 100
 119 6.1 78.2 117.2#
 121 0.0 26.1 39.1#





#50

Toluene-d8

Concen: 31.098 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

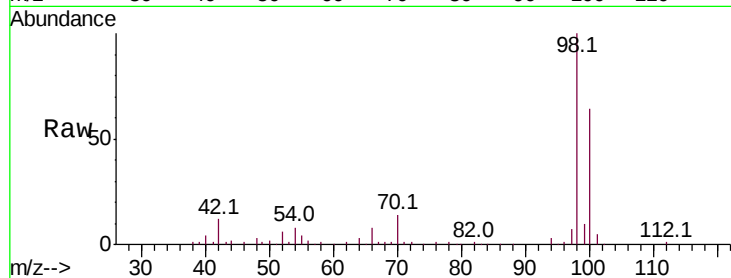
ClientSampleId :

Tot Ion: 98 Resp: 55322

Ion Ratio Lower Upper

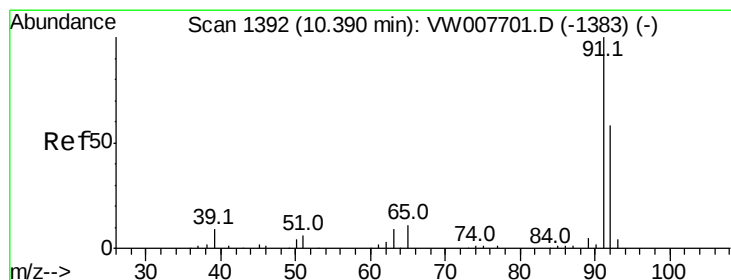
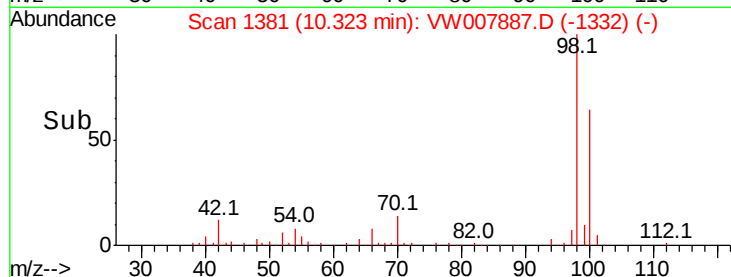
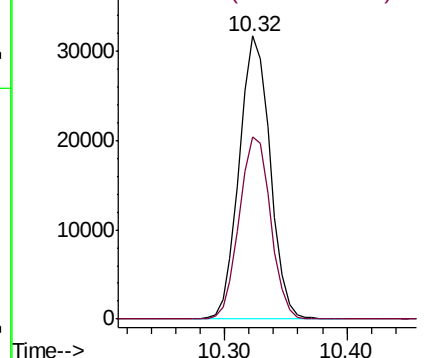
98 100

100 65.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 3.256 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007887.D

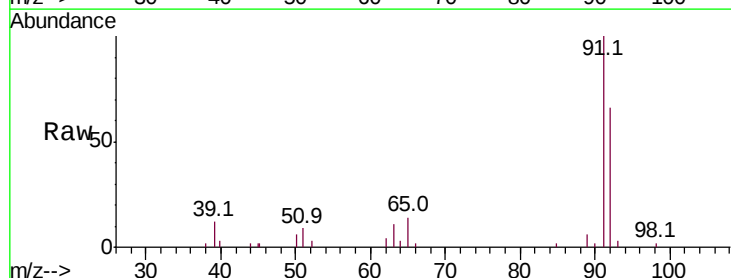
Acq: 24 Dec 2018 14:33

Tgt Ion: 92 Resp: 4352

Ion Ratio Lower Upper

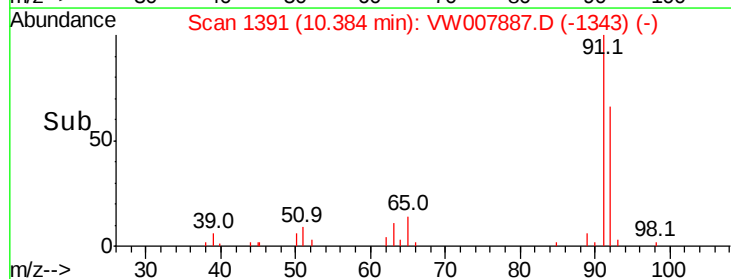
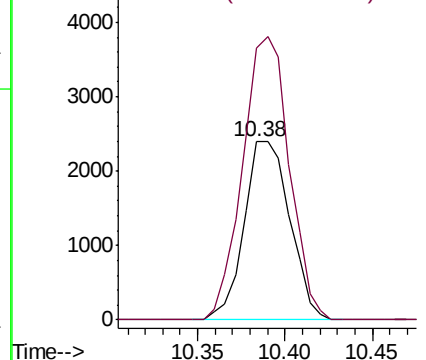
92 100

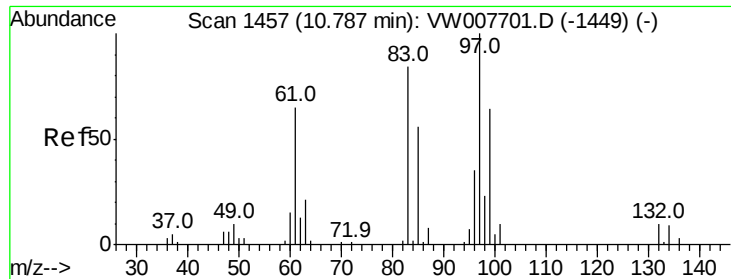
91 162.3 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#55

1,1,2-Trichloroethane

Concen: 7.171 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 97 Resp: 2690

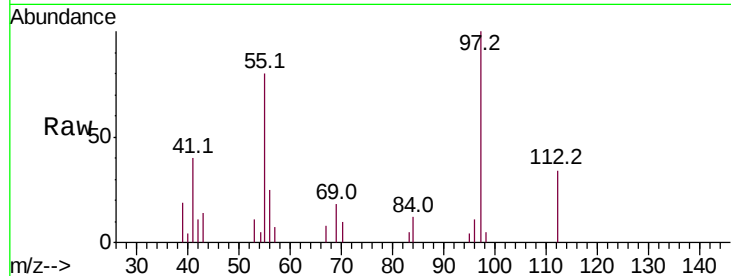
Ion Ratio Lower Upper

97 100

83 5.1 67.5 101.3#

85 0.0 44.8 67.2#

99 0.0 51.0 76.4#

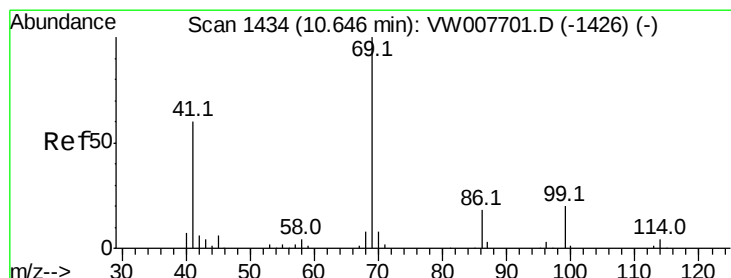
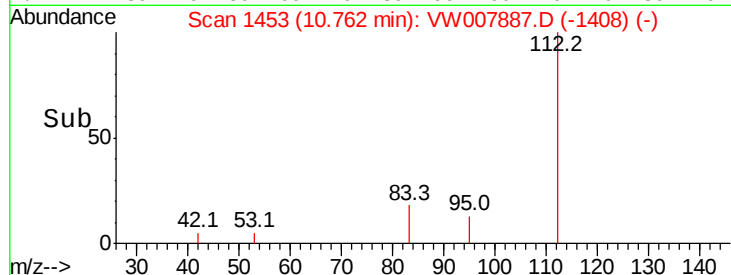
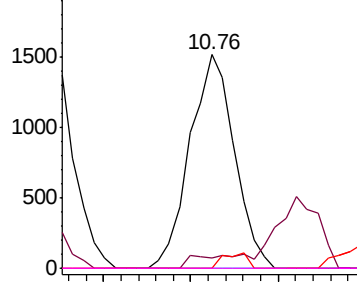


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 2.416 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

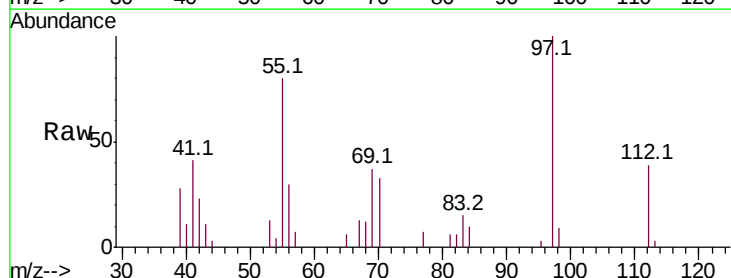
Tgt Ion: 69 Resp: 1071

Ion Ratio Lower Upper

69 100

41 133.0 48.9 73.3#

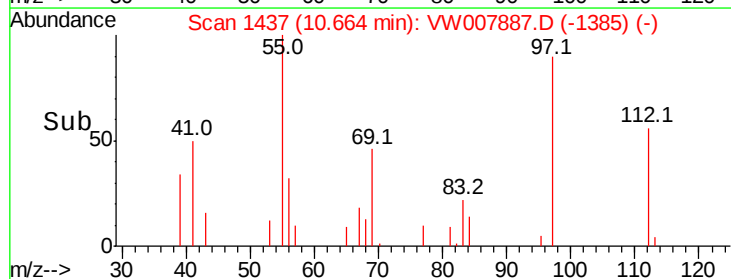
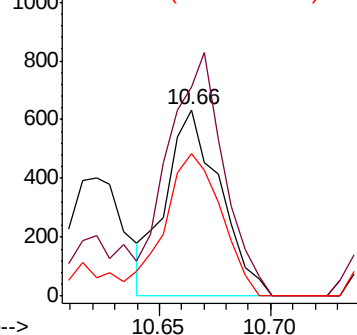
39 80.2 31.3 46.9#

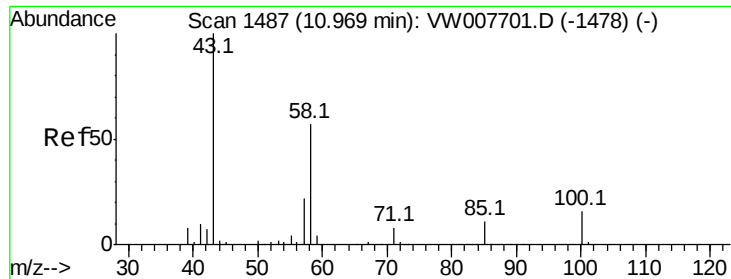


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#59

2-Hexanone

Concen: 3.998 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.03 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

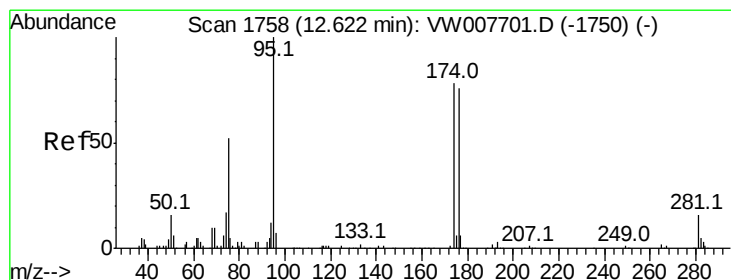
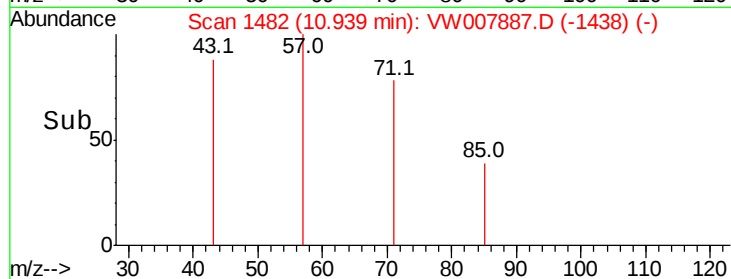
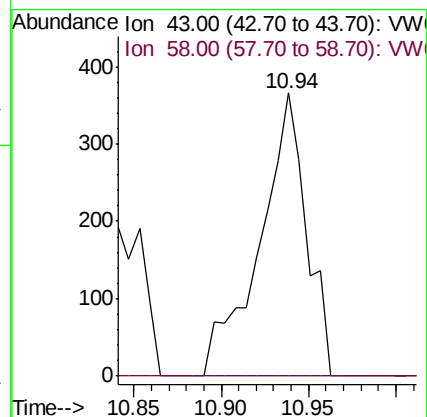
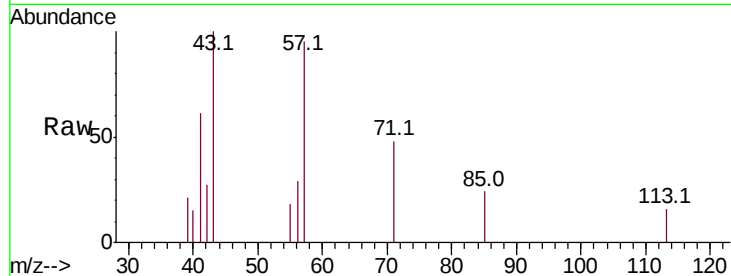
ClientSampleId :

Tot Ion: 43 Resp: 686

Ion Ratio Lower Upper

43 100

58 0.0 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 17.571 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

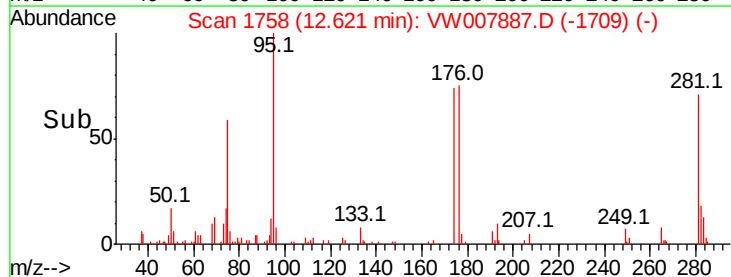
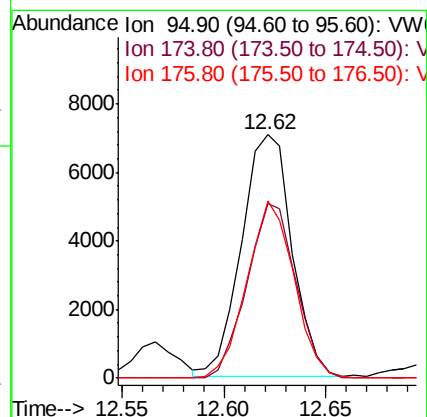
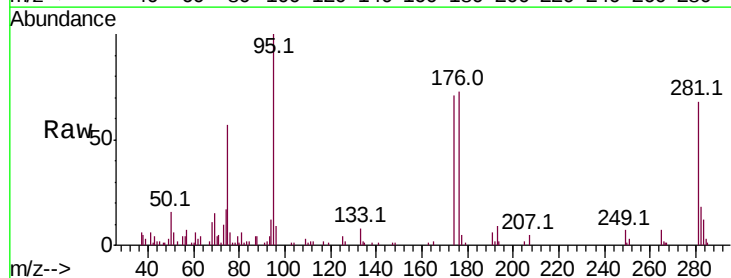
Tgt Ion: 95 Resp: 12076

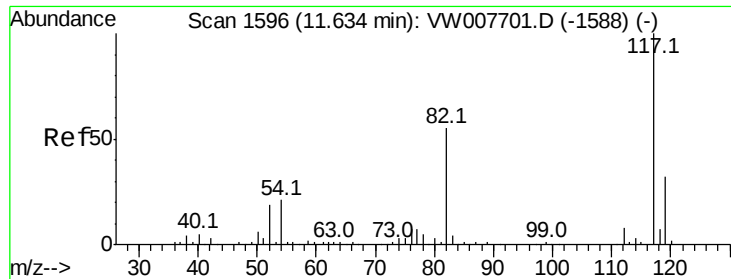
Ion Ratio Lower Upper

95 100

174 70.1 0.0 152.2

176 68.9 0.0 146.8

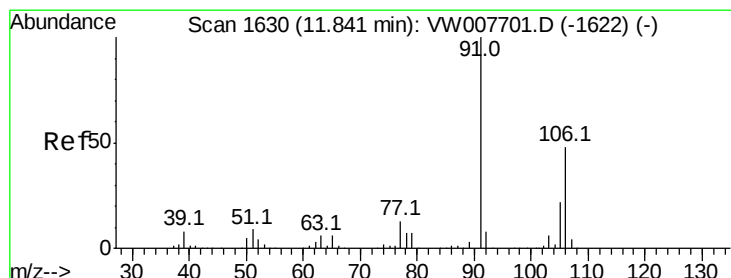
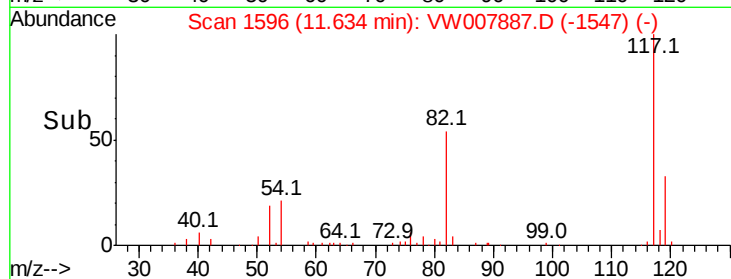
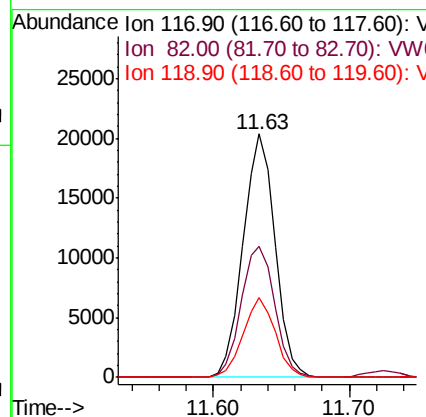
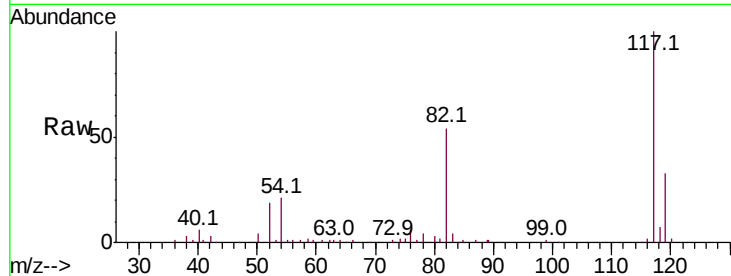




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007887.D
Acq: 24 Dec 2018 14:33

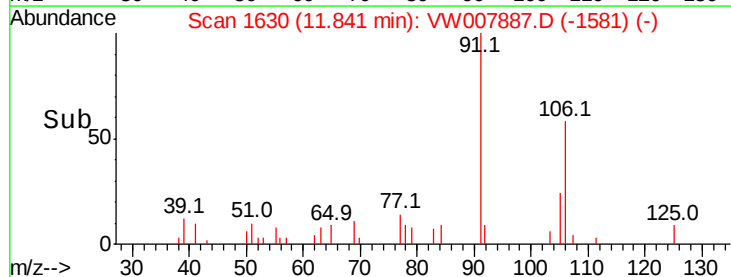
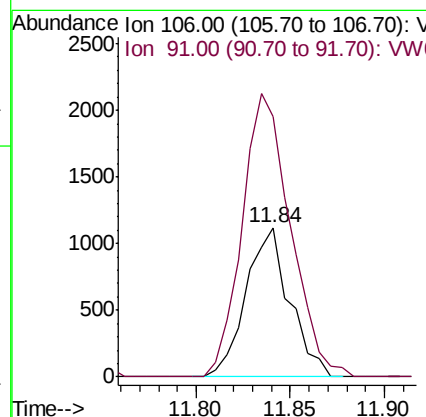
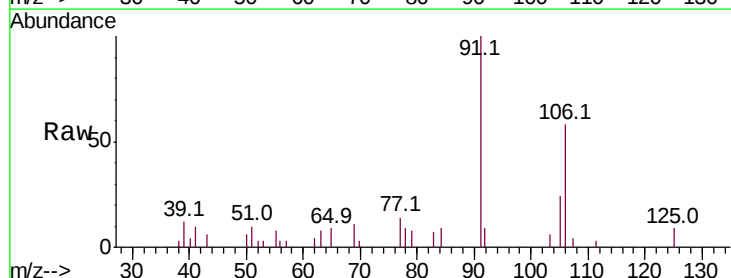
Instrument :
MSVOA_W
ClientSampleId :

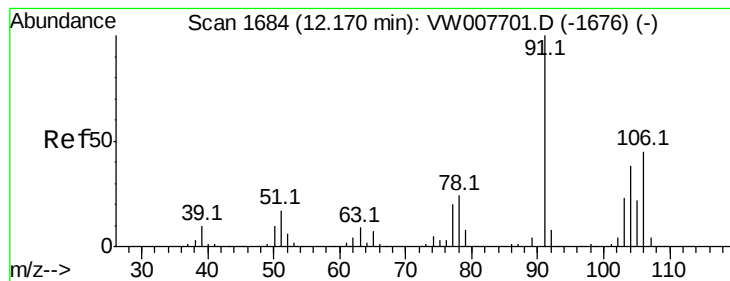
Tot Ion:117 Resp: 33389
Ion Ratio Lower Upper
117 100
82 53.5 44.3 66.5
119 32.9 25.7 38.5



#68
m/p-Xylenes
Concen: 3.738 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007887.D
Acq: 24 Dec 2018 14:33

Tgt Ion:106 Resp: 1798
Ion Ratio Lower Upper
106 100
91 209.8 165.2 247.8





#69

o-Xylene

Concen: 1.213 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

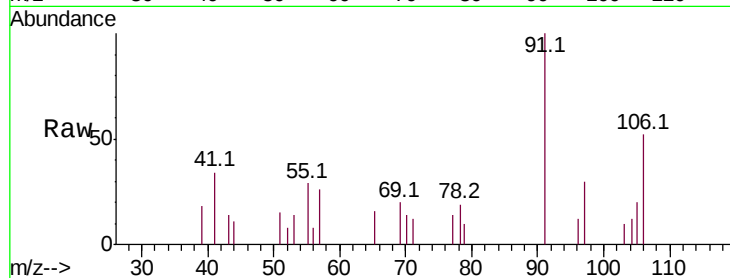
ClientSampleId :

Tot Ion:106 Resp: 547

Ion Ratio Lower Upper

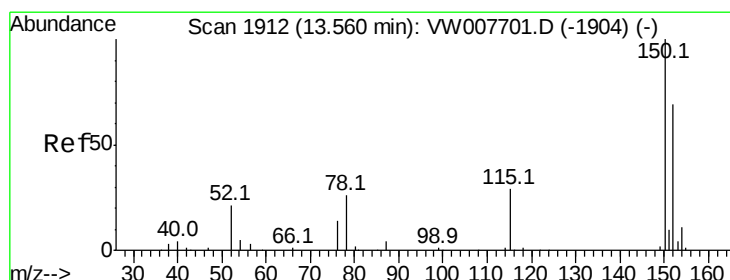
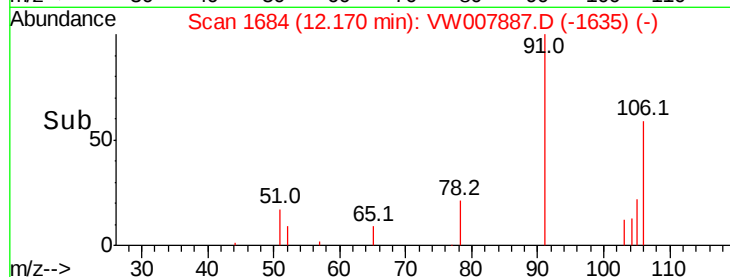
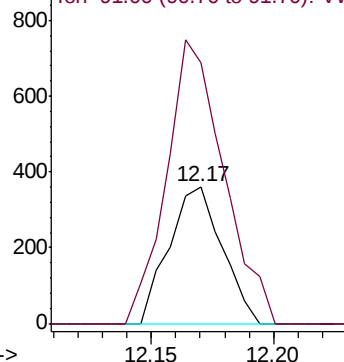
106 100

91 222.7 110.5 331.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

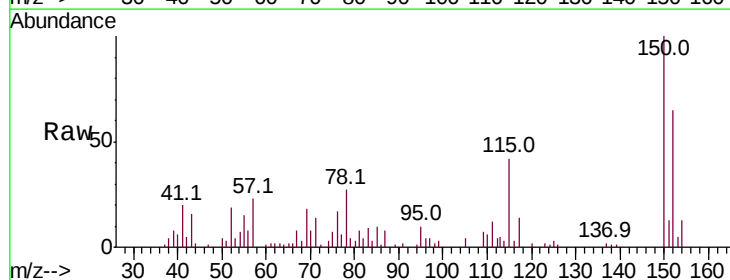
Tgt Ion:152 Resp: 6841

Ion Ratio Lower Upper

152 100

115 62.0 31.8 95.4

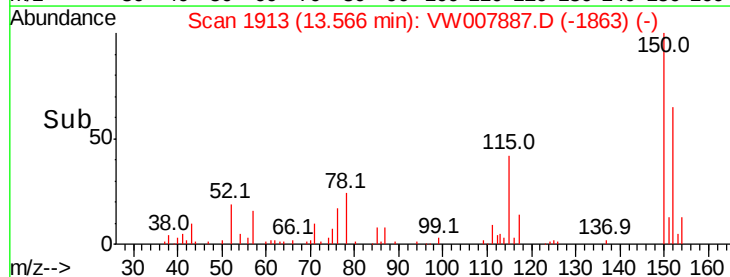
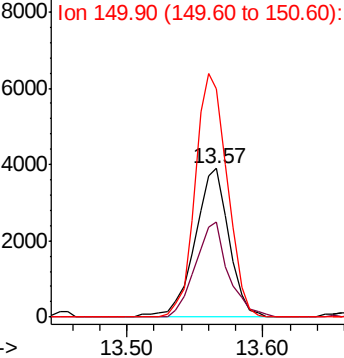
150 154.5 0.0 350.8

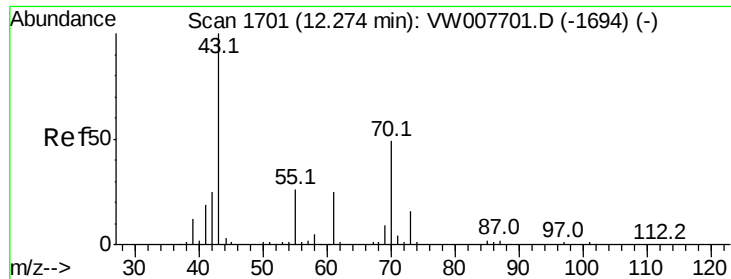


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 15.507 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 1389

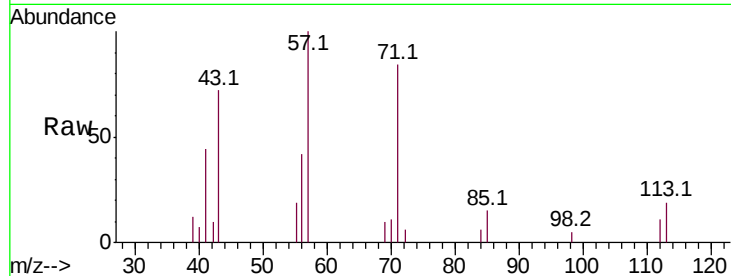
Ion Ratio Lower Upper

43 100

70 0.0 37.6 56.4#

55 0.0 21.7 32.5#

61 0.0 20.1 30.1#

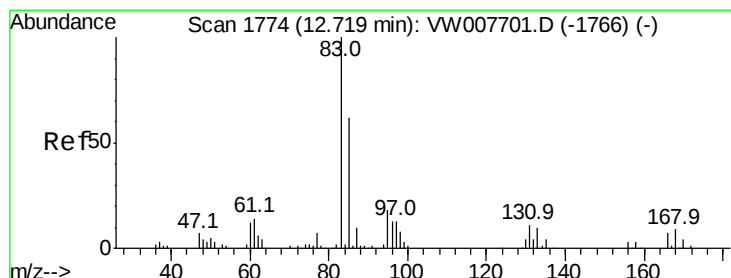
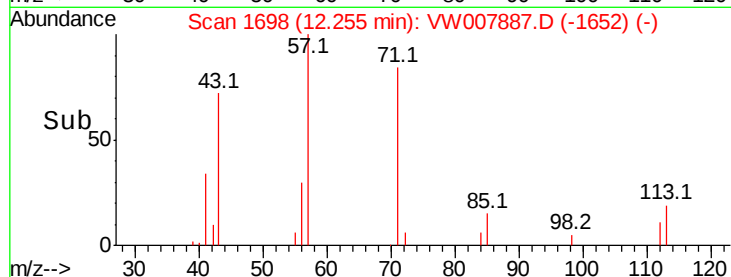
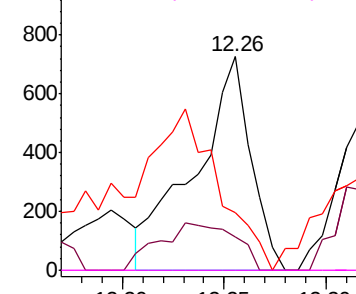


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#75

1,1,2,2-Tetrachloroethane

Concen: 5.249 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.03 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

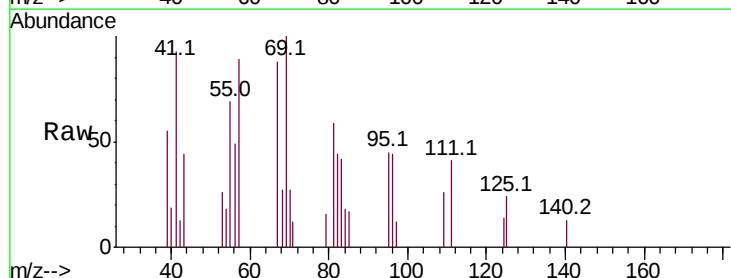
Tgt Ion: 83 Resp: 407

Ion Ratio Lower Upper

83 100

131 0.0 6.3 18.8#

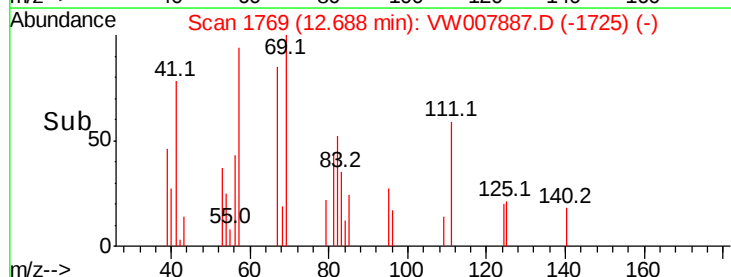
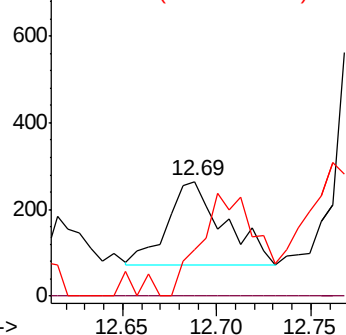
85 119.9 32.3 96.8#

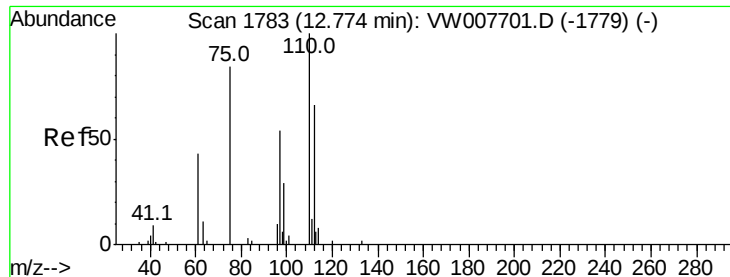


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 117.315 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

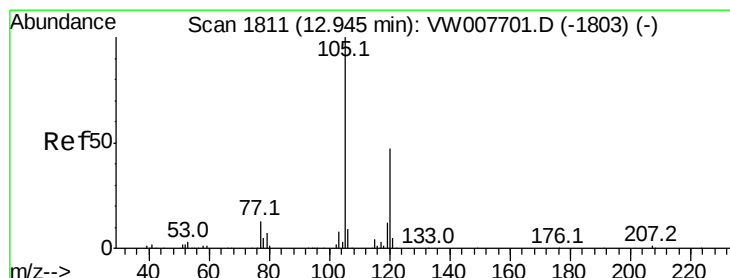
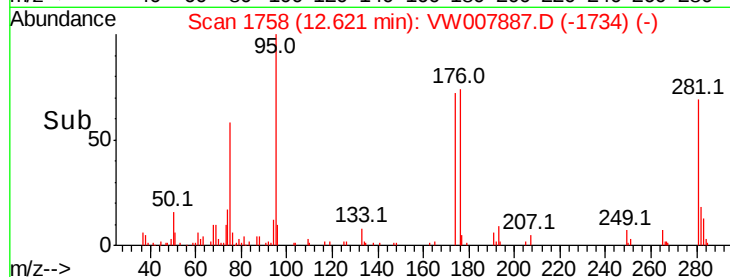
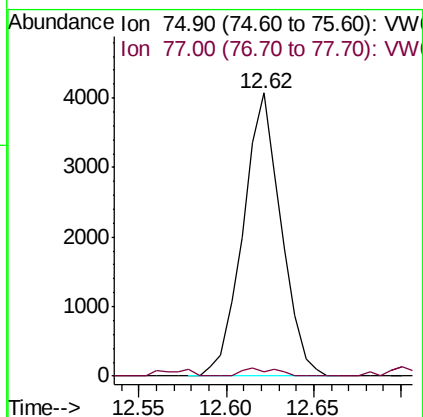
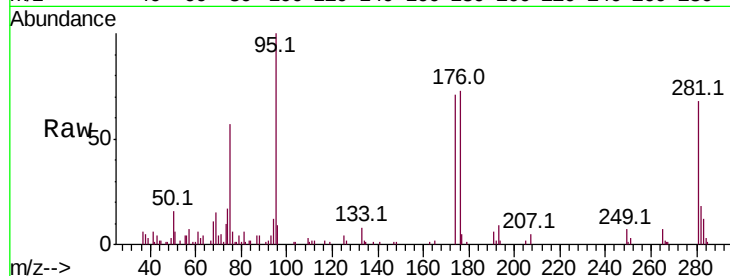
ClientSampleId :

Tot Ion: 75 Resp: 6203

Ion Ratio Lower Upper

75 100

77 2.6 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 2.693 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.01 min

Lab File: VW007887.D

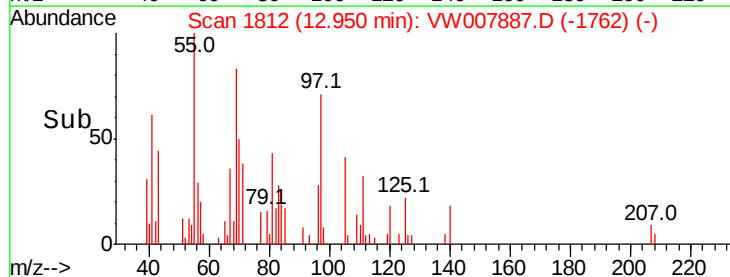
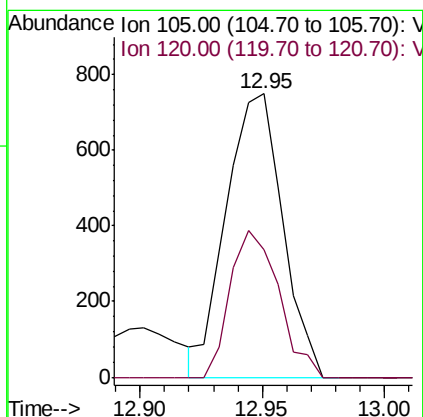
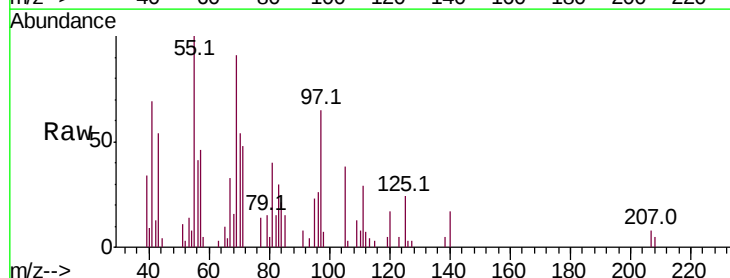
Acq: 24 Dec 2018 14:33

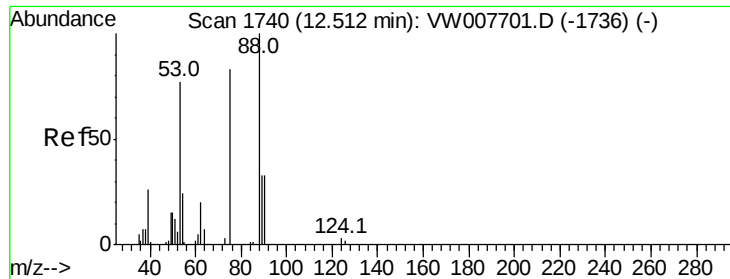
Tgt Ion: 105 Resp: 1201

Ion Ratio Lower Upper

105 100

120 44.7 23.6 70.8





#81

trans-1,4-Dichloro-2-butene

Concen: 246.254 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

ClientSampled :

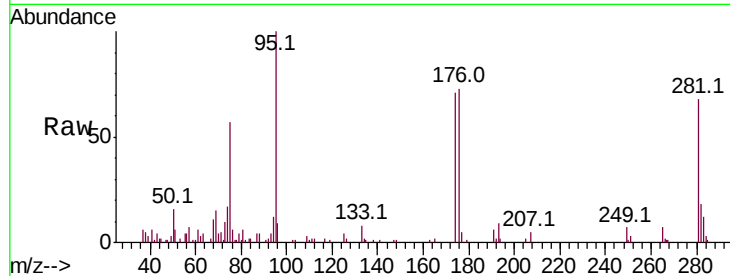
Tot Ion: 75 Resp: 6203

Ion Ratio Lower Upper

75 100

53 5.0 80.2 120.2#

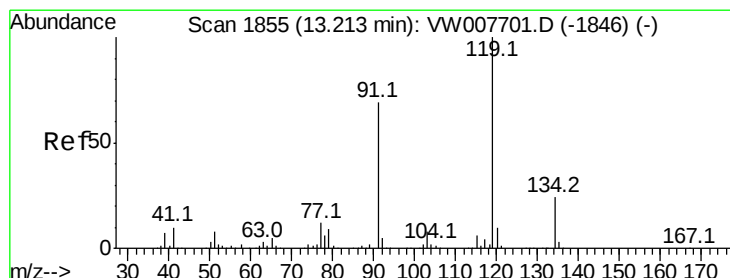
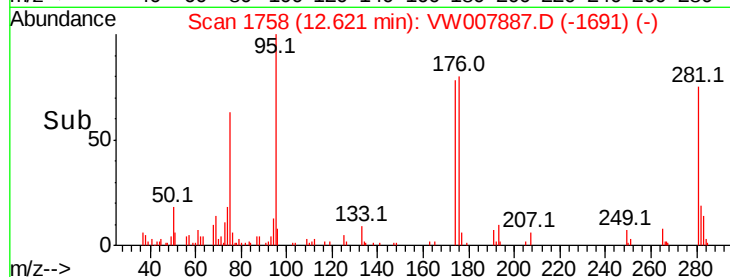
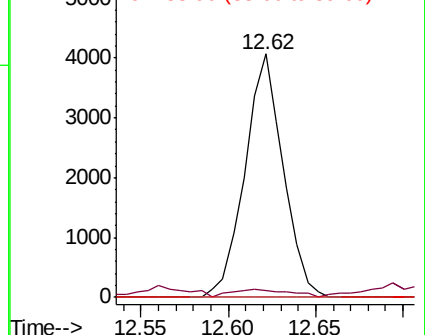
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#83

tert-Butylbenzene

Concen: 2.836 ug/l

RT: 13.44 min Scan# 1893

Delta R.T. 0.23 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

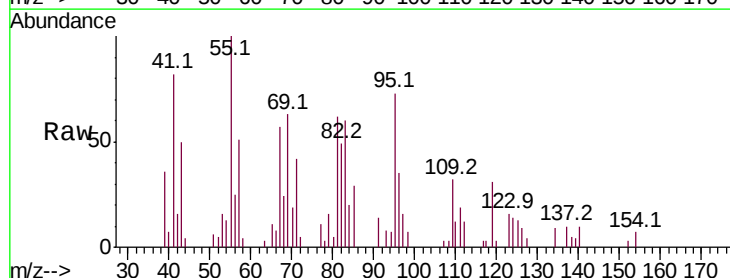
Tgt Ion: 119 Resp: 1110

Ion Ratio Lower Upper

119 100

91 41.1 34.2 102.5

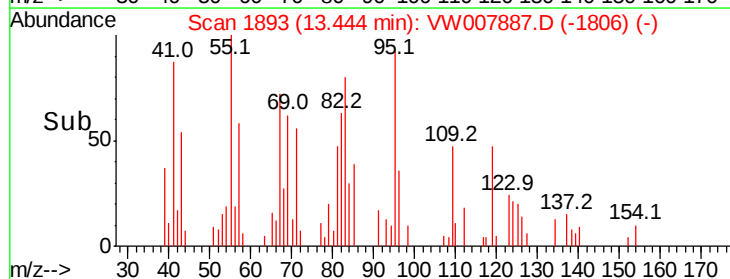
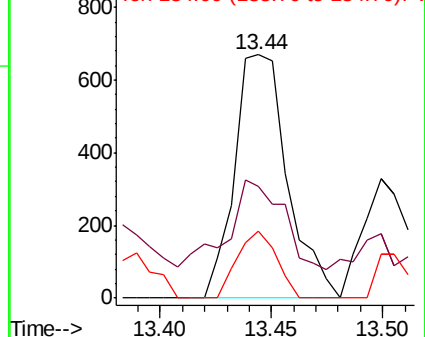
134 20.4 12.8 38.4

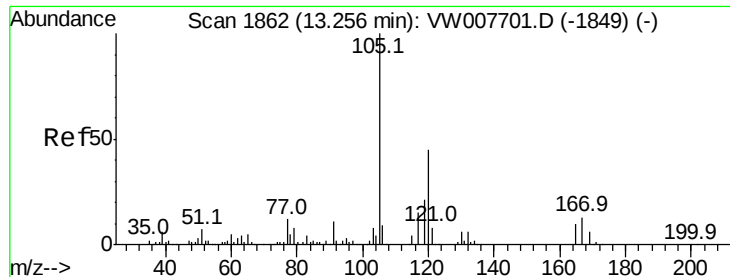


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V

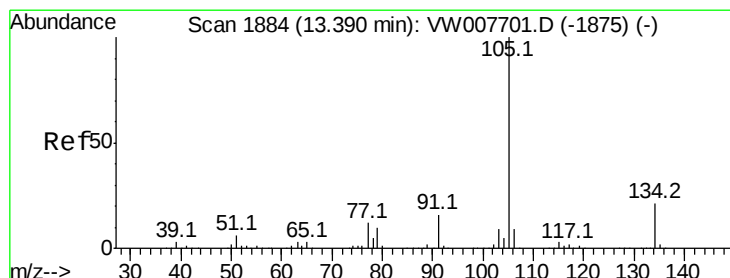
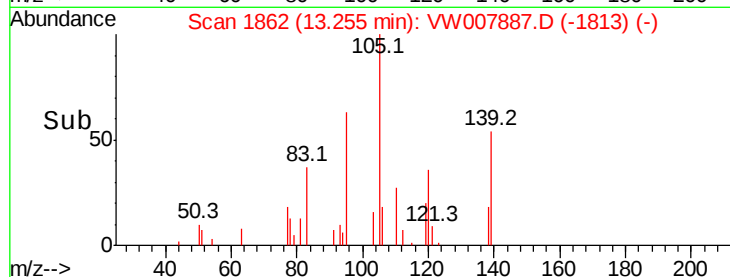
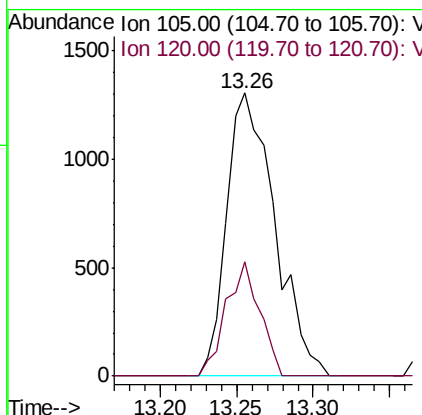
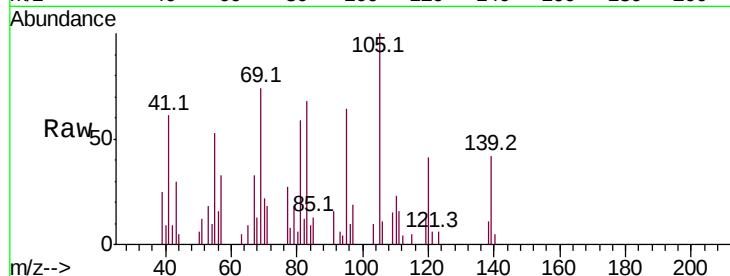




#84
 1,2,4-Trimethylbenzene
 Concen: 6.319 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007887.D
 Acq: 24 Dec 2018 14:33

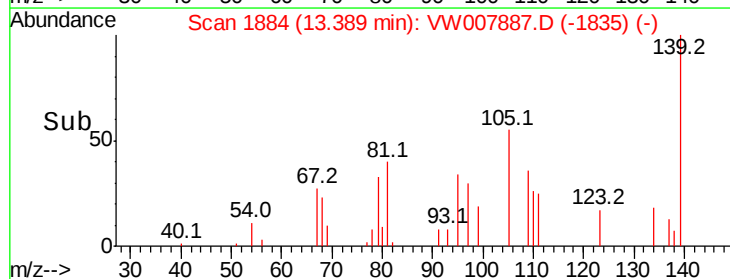
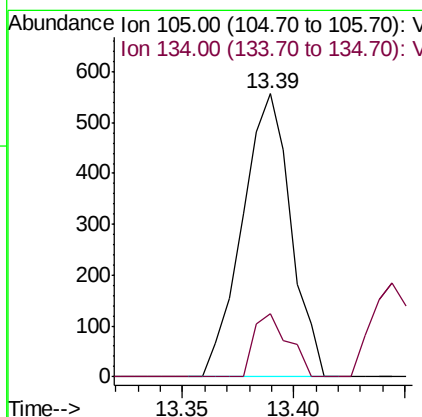
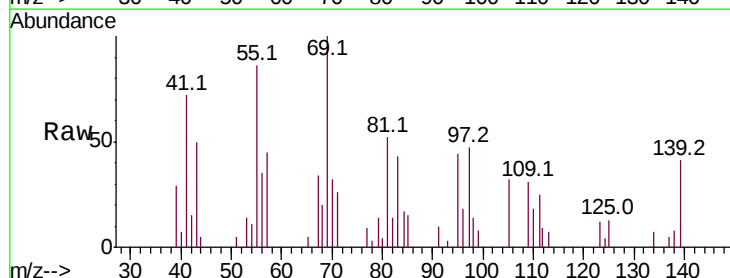
Instrument :
 MSVOA_W
 ClientSampled :

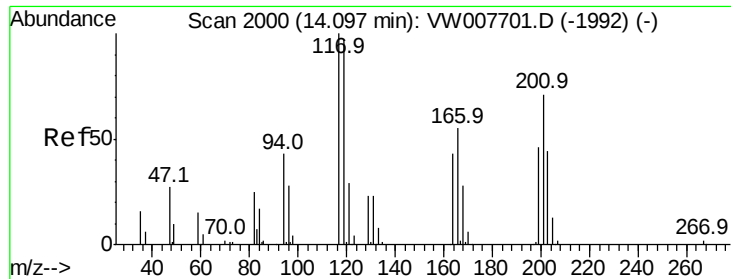
Tot Ion:105 Resp: 2844
 Ion Ratio Lower Upper
 105 100
 120 28.3 22.0 66.0



#85
 sec-Butylbenzene
 Concen: 1.568 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW007887.D
 Acq: 24 Dec 2018 14:33

Tgt Ion:105 Resp: 846
 Ion Ratio Lower Upper
 105 100
 134 15.6 10.2 30.4





#90

Hexachloroethane

Concen: 1.510 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

Instrument :

MSVOA_W

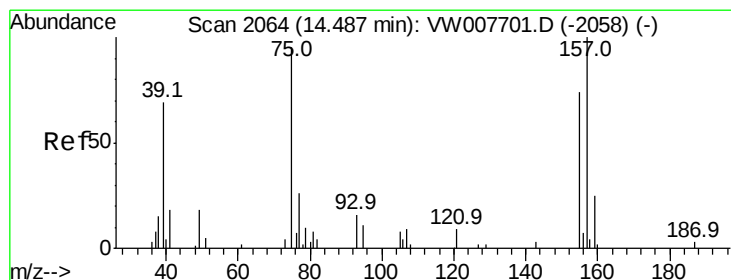
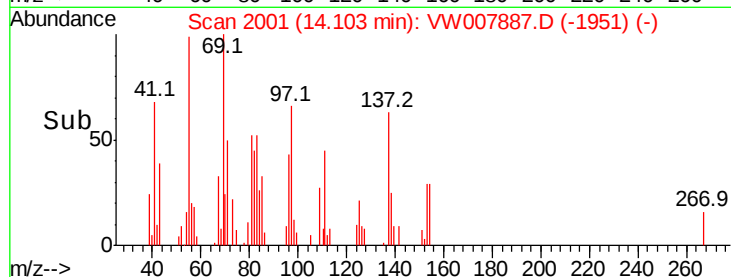
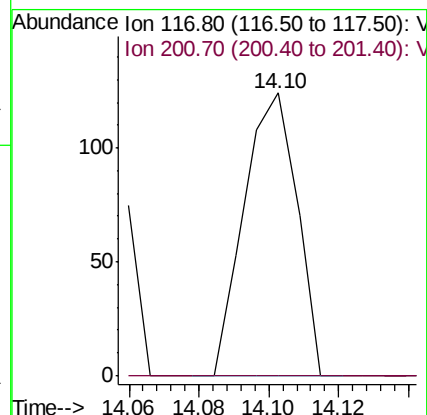
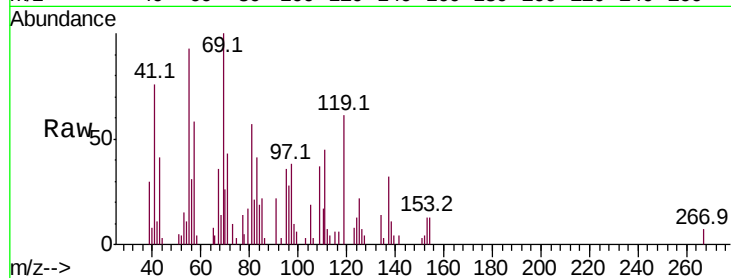
ClientSampleId :

Tot Ion:117 Resp: 130

Ion Ratio Lower Upper

117 100

201 0.0 36.2 108.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.329 ug/l

RT: 14.21 min Scan# 2018

Delta R.T. -0.28 min

Lab File: VW007887.D

Acq: 24 Dec 2018 14:33

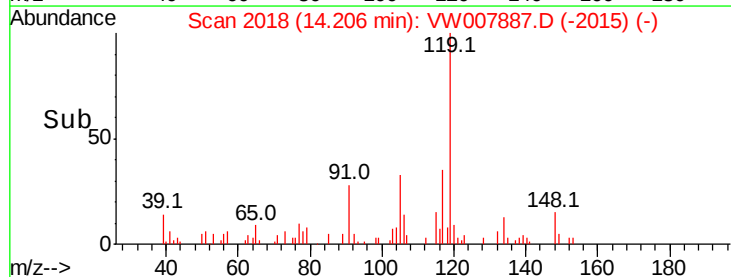
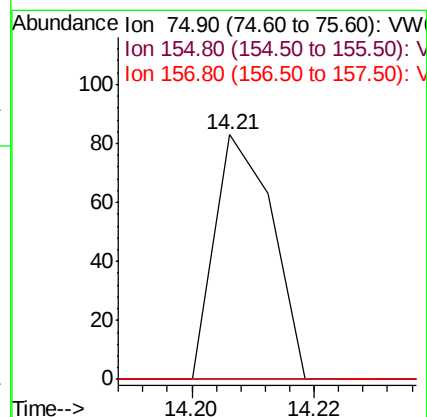
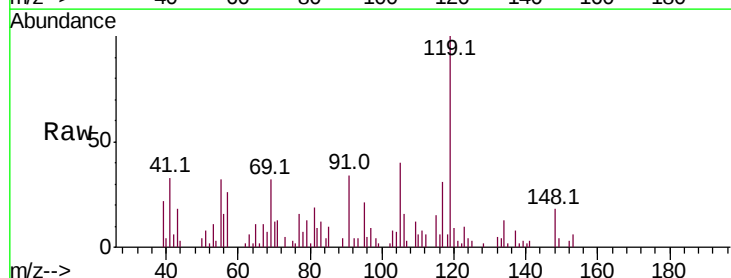
Tgt Ion: 75 Resp: 53

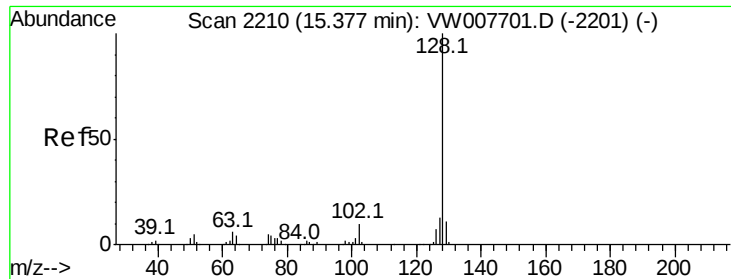
Ion Ratio Lower Upper

75 100

155 0.0 39.4 118.1#

157 0.0 52.0 156.0#





#95
Naphthalene
Concen: 4.664 ug/l
RT: 15.38 min Scan# 2211
Delta R.T. 0.01 min
Lab File: VW007887.D
Acq: 24 Dec 2018 14:33

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 1261
Ion Ratio Lower Upper
128 100
127 12.0 10.7 16.1
129 6.5 8.8 13.2#

