

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112218\
 Data File : VW007006.D
 Acq On : 21 Nov 2018 17:59
 Operator : VAY/AP
 Sample : J6024-01RE
 Misc : 7.61G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 22 04:38:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W112118S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 03:23:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	56970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	89144	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	70097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	22404	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	30570	54.81	ug/l	0.00
Spiked Amount			Recovery	=	109.62%	
35) Dibromofluoromethane	7.89	113	25206	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
50) Toluene-d8	10.33	98	112455	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.62	95	31203	35.67	ug/l	0.00
Spiked Amount			Recovery	=	71.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.13	43	2848	35.170	ug/l #	87
20) Methylene Chloride	4.92	84	926	Below Cal	#	81
31) Cyclohexane	7.95	56	1282	1.193	ug/l #	17
36) 1,1-Dichloropropene	7.95	75	4712	5.409	ug/l #	50
38) Carbon Tetrachloride	7.95	117	5708	6.843	ug/l #	18
51) 4-Methyl-2-Pentanone	10.32	43	500	1.645	ug/l #	1
55) 1,1,2,2-Trichloroethane	10.76	97	613	1.435	ug/l #	15
60) Dibromochloromethane	10.86	129	906	1.862	ug/l #	11
64) Tetrachloroethene	10.86	164	954	2.116	ug/l #	81
68) m/p-Xylenes	11.84	106	2560	2.428	ug/l	96
69) o-Xylene	12.16	106	1865	1.876	ug/l	99
73) Isopropylbenzene	12.47	105	2517	1.446	ug/l	96
74) N-ethyl acetate	12.25	43	922	3.159	ug/l #	55
75) 1,1,2,2-Tetrachloroethane	12.70	83	401	1.730	ug/l #	25
76) 1,2,3-Trichloropropane	12.62	75	15432	87.657	ug/l #	100
78) n-propylbenzene	12.80	91	4169	1.977	ug/l	99
79) 2-Chlorotoluene	12.87	91	2580	2.122	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.95	105	22551	14.977	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	15432	220.072	ug/l #	10
82) 4-Chlorotoluene	12.95	91	2787	2.184	ug/l #	42
84) 1,2,4-Trimethylbenzene	13.26	105	35593	23.726	ug/l	100
85) sec-Butylbenzene	13.39	105	4494	2.440	ug/l	79
86) p-Isopropyltoluene	13.50	119	3787	2.331	ug/l	95
90) Hexachloroethane	14.10	117	588	2.479	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.21	75	68	1.738	ug/l #	1
95) Naphthalene	15.37	128	1865	2.329	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007006.D

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Instrument :

MSVOA_W

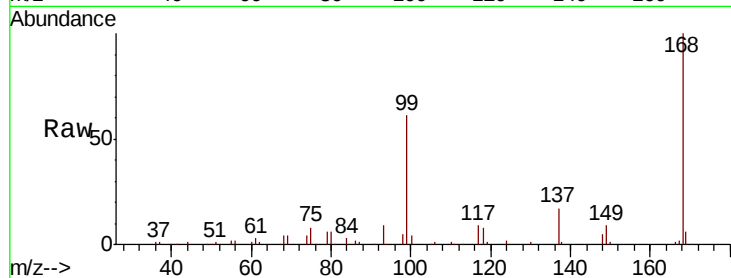
ClientSampled :

Tot Ion:168 Resp: 56970

Ion Ratio Lower Upper

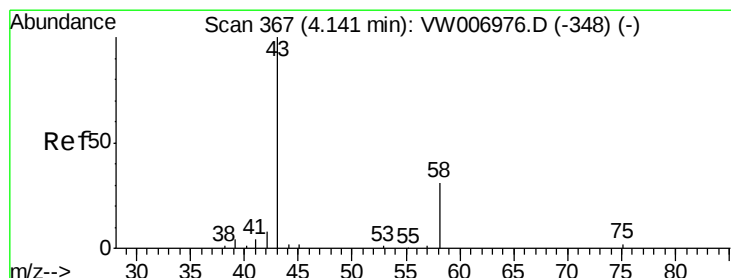
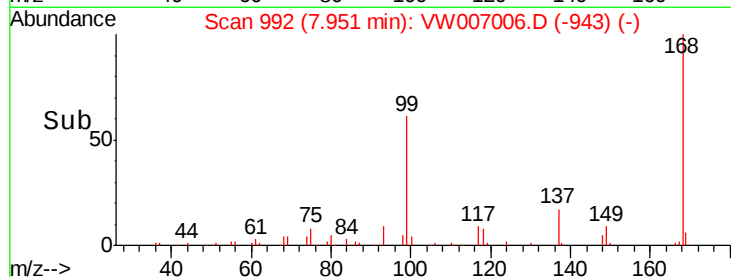
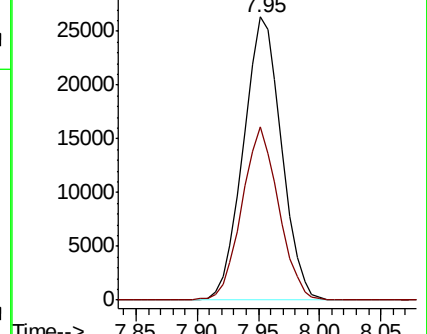
168 100

99 61.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 35.170 ug/l

RT: 4.13 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW007006.D

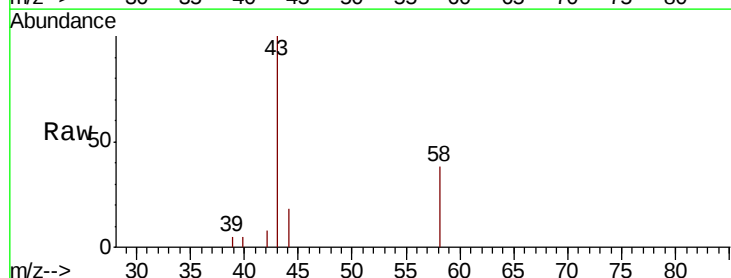
Acq: 21 Nov 2018 17:59

Tgt Ion: 43 Resp: 2848

Ion Ratio Lower Upper

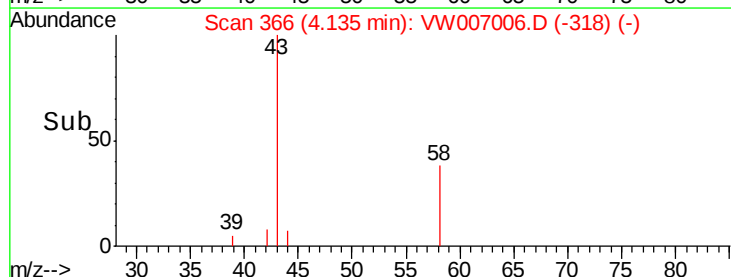
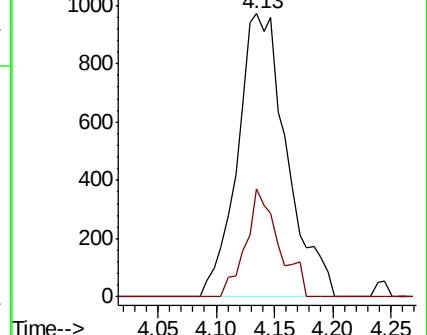
43 100

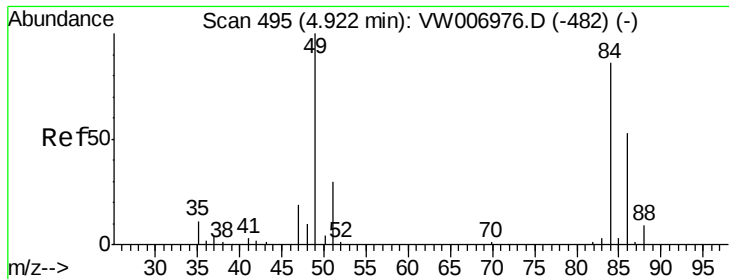
58 38.1 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

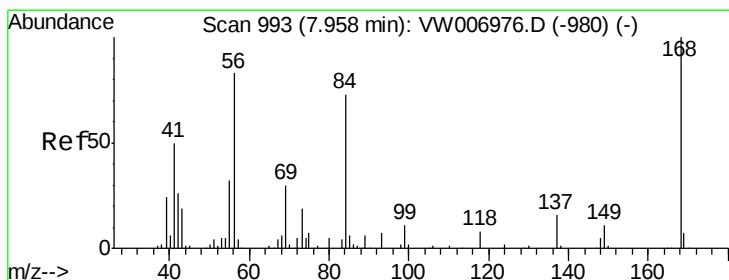
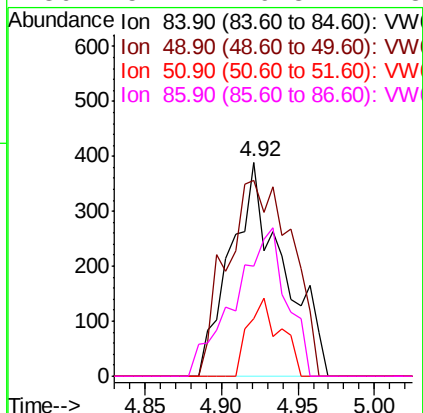
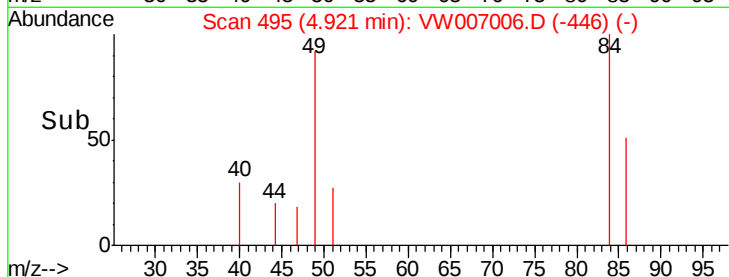
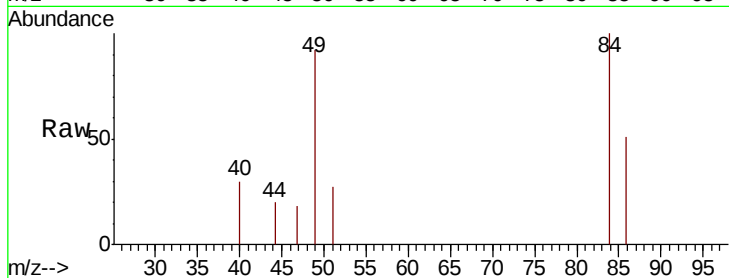




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

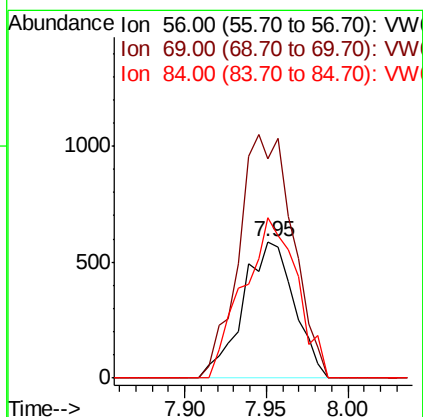
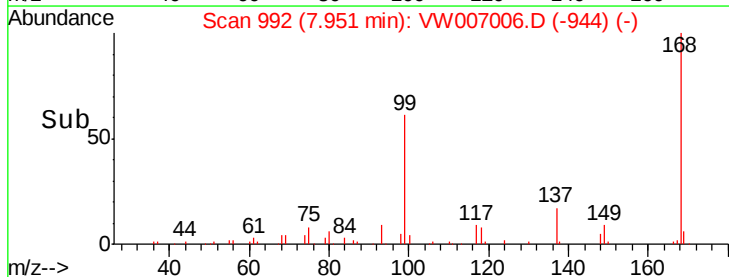
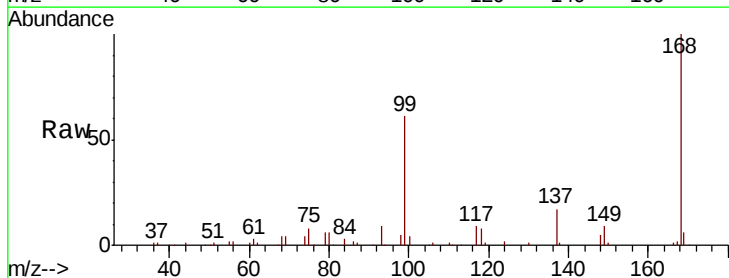
Instrument :
MSVOA_W
ClientSampled :

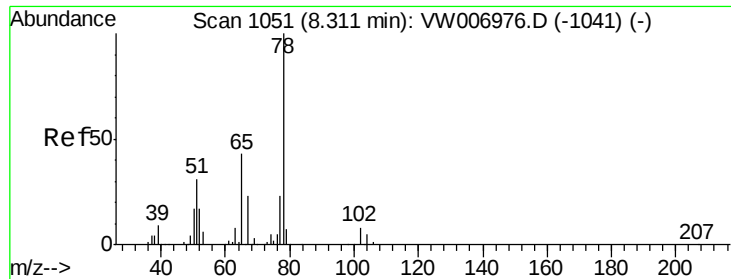
Tot Ion: 84 Resp: 926
Ion Ratio Lower Upper
84 100
49 91.8 93.4 140.0#
51 26.7 28.4 42.6#
86 51.4 49.8 74.8



#31
Cyclohexane
Concen: 1.193 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion: 56 Resp: 1282
Ion Ratio Lower Upper
56 100
69 160.3 29.1 43.7#
84 117.0 70.6 105.8#

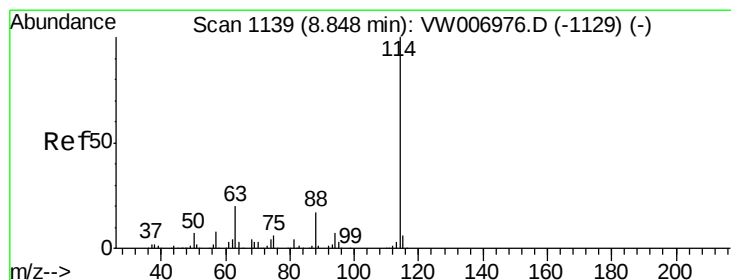
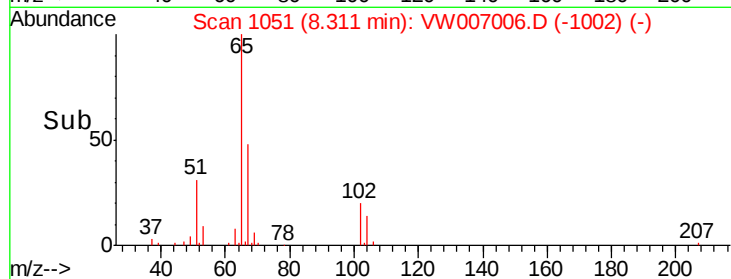
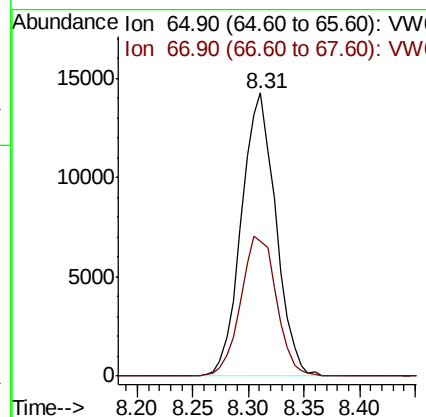
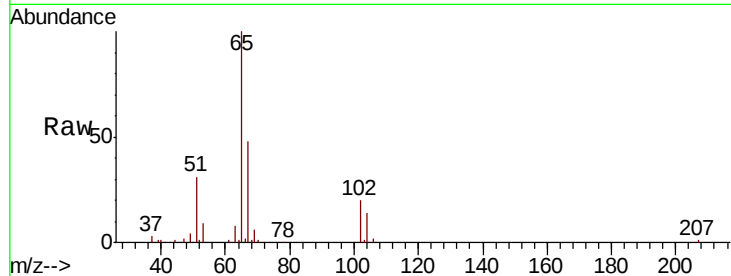




#33
 1,2-Dichloroethane-d4
 Concen: 54.810 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW007006.D
 Acq: 21 Nov 2018 17:59

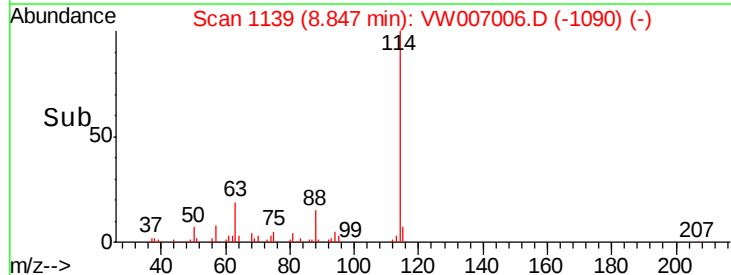
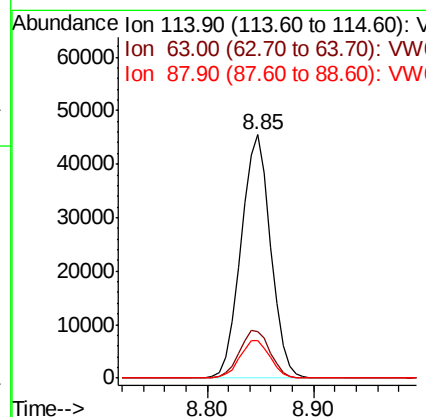
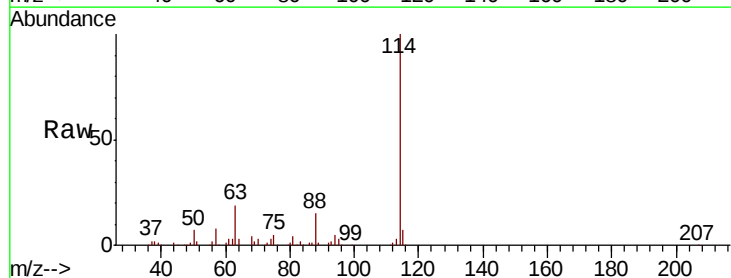
Instrument :
 MSVOA_W
 ClientSampleId :

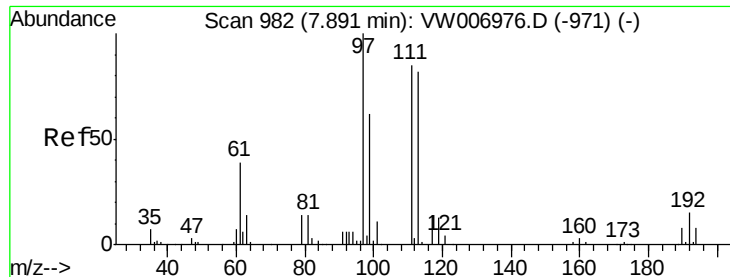
Tot Ion: 65 Resp: 30570
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW007006.D
 Acq: 21 Nov 2018 17:59

Tgt Ion: 114 Resp: 89144
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.4
 88 15.3 0.0 34.2

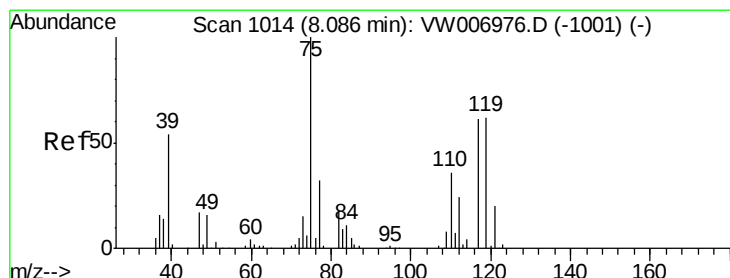
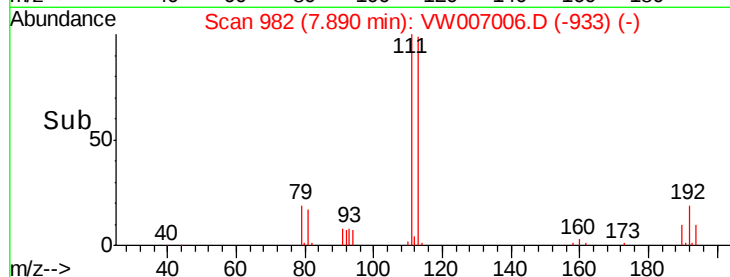
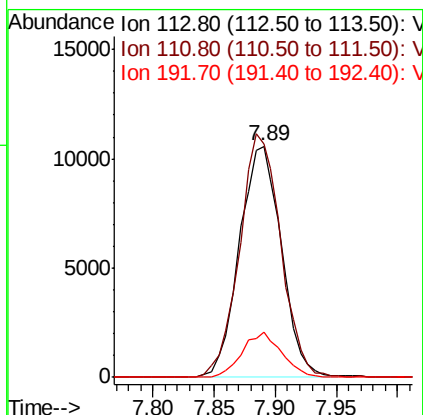
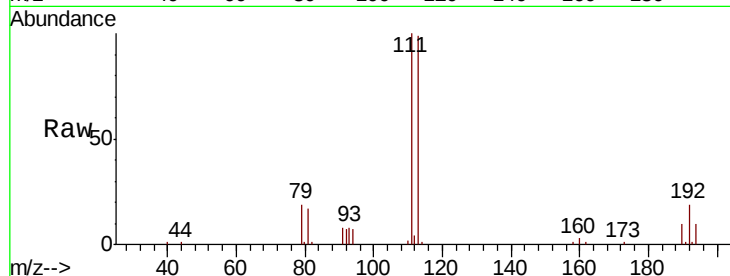




#35
 Dibromofluoromethane
 Concen: 50.070 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW007006.D
 Acq: 21 Nov 2018 17:59

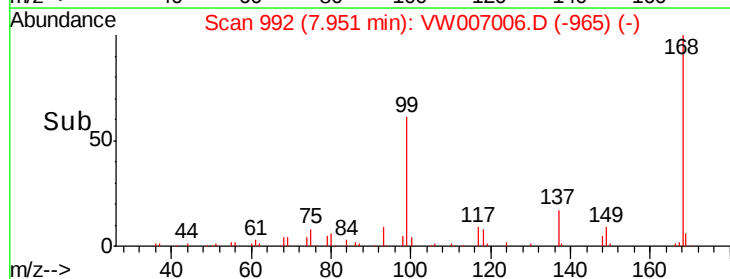
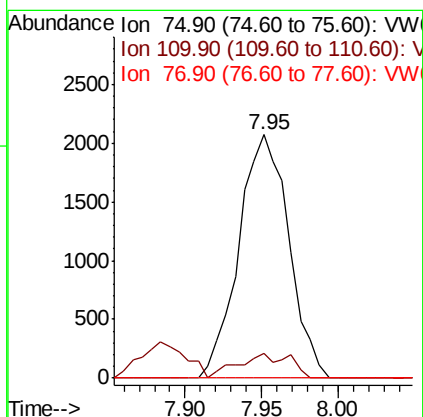
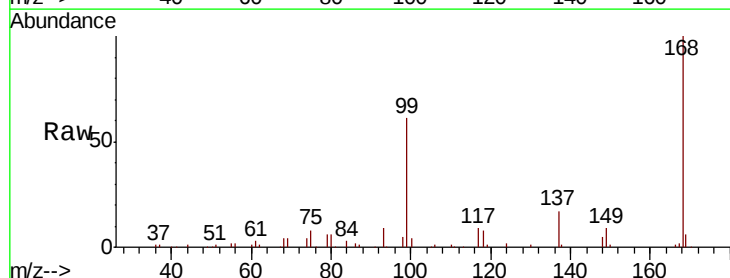
Instrument :
 MSVOA_W
 ClientSampleId :

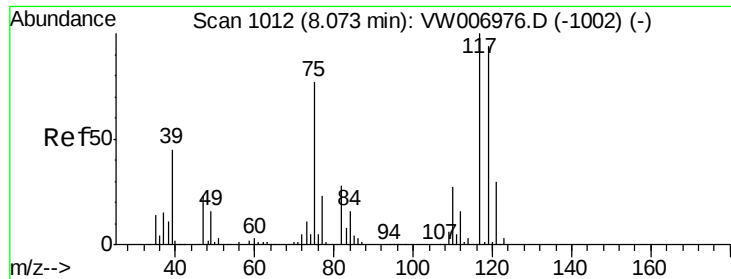
Tot Ion:113 Resp: 25206
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.0 121.6
 192 18.2 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 5.409 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW007006.D
 Acq: 21 Nov 2018 17:59

Tgt Ion: 75 Resp: 4712
 Ion Ratio Lower Upper
 75 100
 110 10.3 18.0 54.0#
 77 0.0 24.9 37.3#

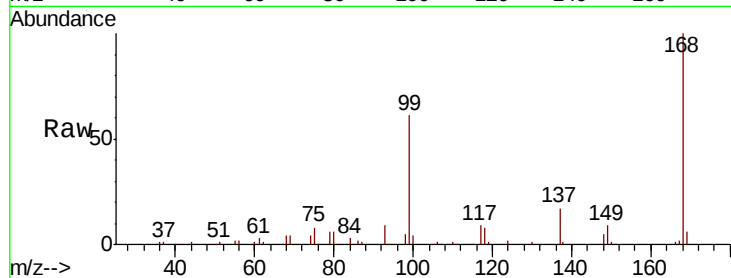




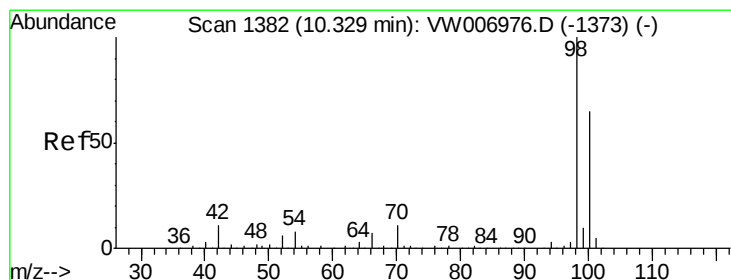
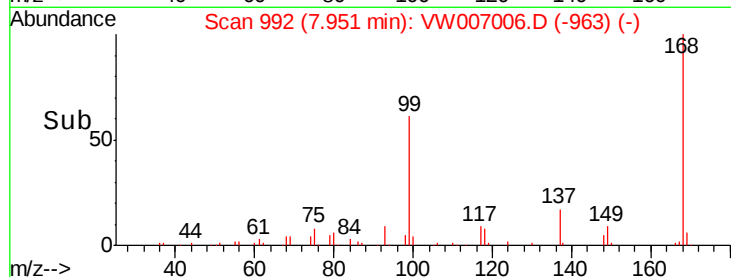
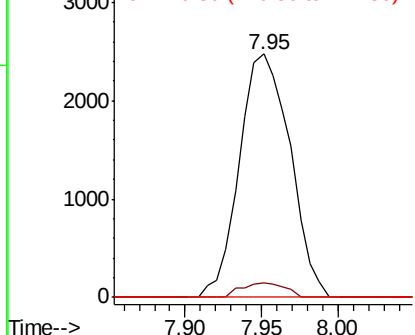
#38
Carbon Tetrachloride
Concen: 6.843 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 5708
Ion Ratio Lower Upper
117 100
119 6.0 74.9 112.3#
121 0.0 23.6 35.4#

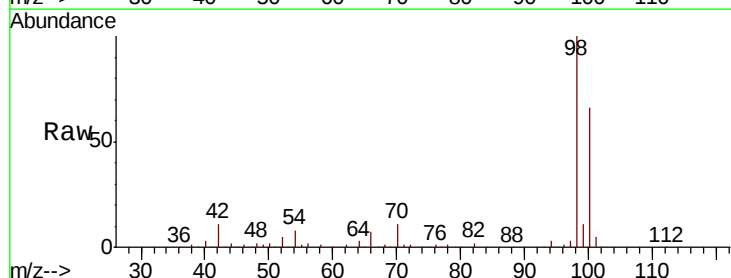


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

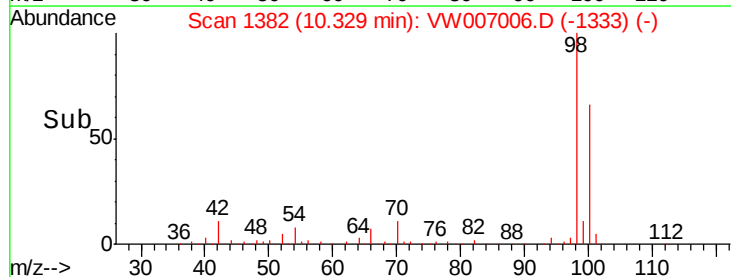
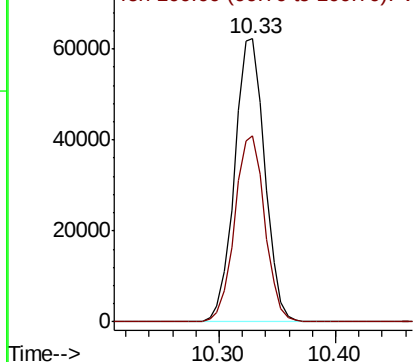


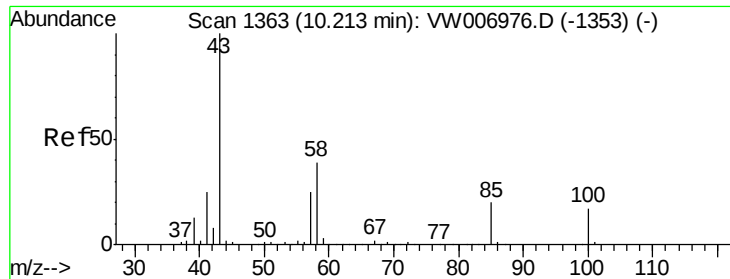
#50
Toluene-d8
Concen: 50.586 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion: 98 Resp: 112455
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.645 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.11 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

Instrument :

MSVOA_W

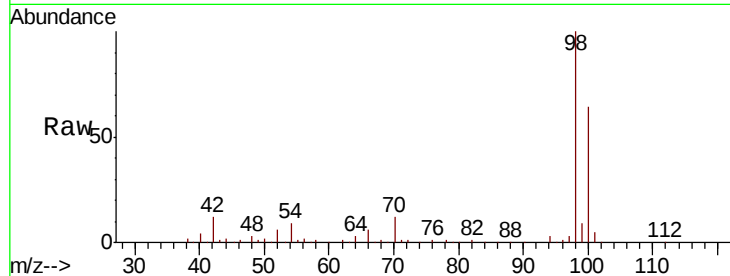
ClientSampleId :

Tot Ion: 43 Resp: 500

Ion Ratio Lower Upper

43 100

58 183.6 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

600

500

400

300

200

100

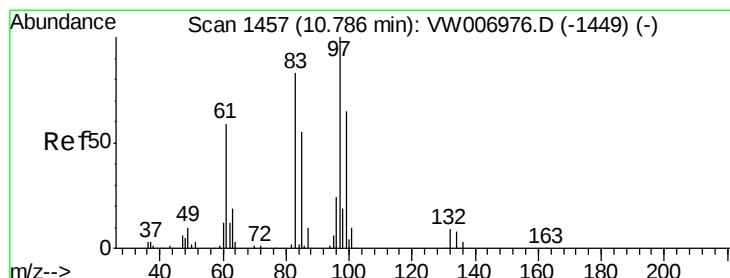
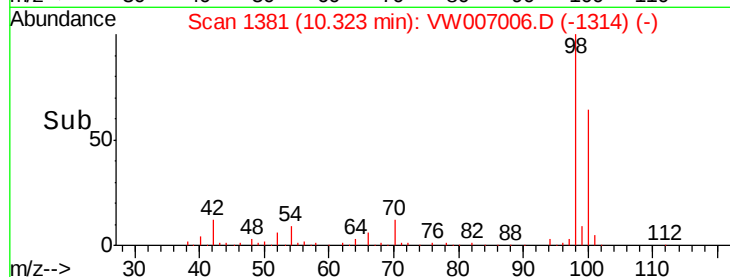
0

10.30

10.32

10.35

Time-->



#55

1,1,2-Trichloroethane

Concen: 1.435 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

Tgt Ion: 97 Resp: 613

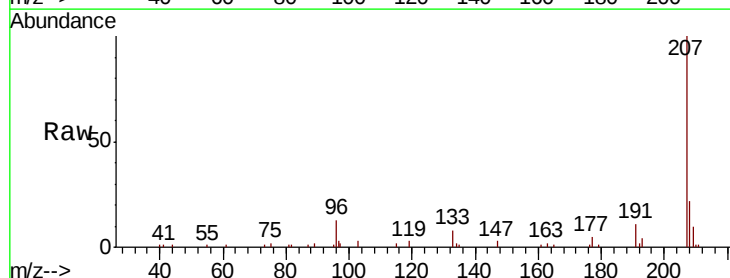
Ion Ratio Lower Upper

97 100

83 0.0 66.4 99.6#

85 0.0 44.1 66.1#

99 0.0 51.7 77.5#



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

600

500

400

300

200

100

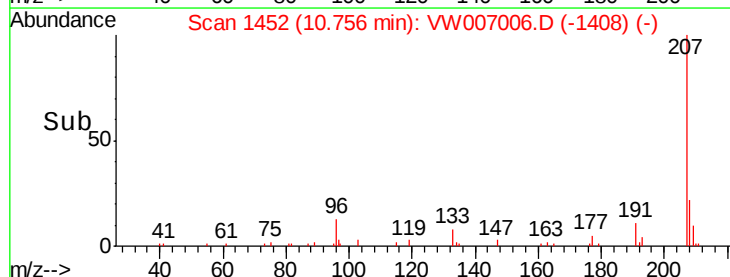
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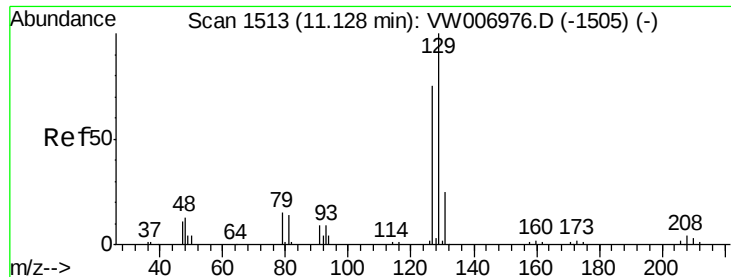
10.70

10.75

10.80

Time-->

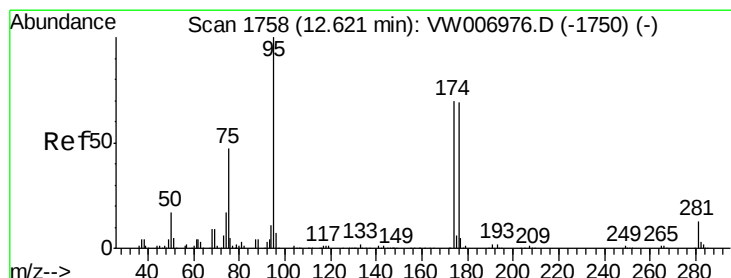
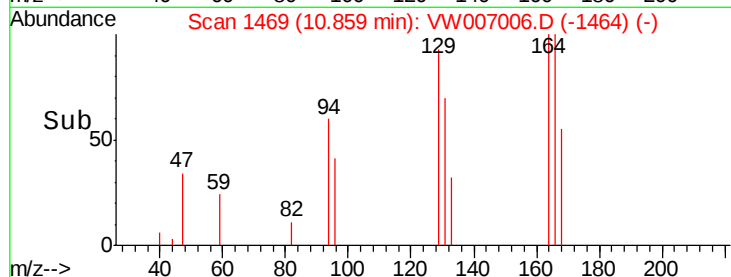
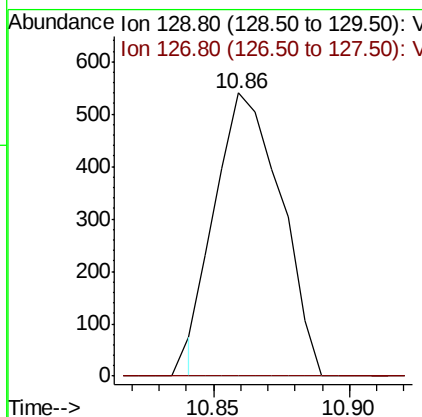
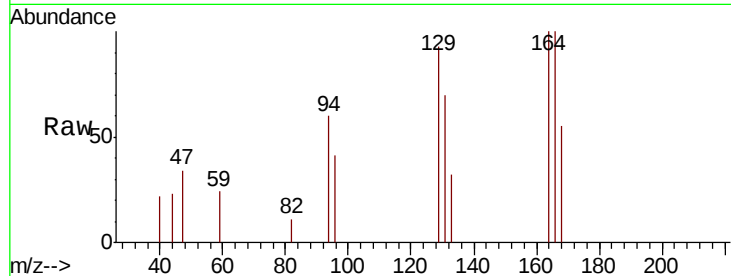




#60
Dibromochloromethane
Concen: 1.862 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.27 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

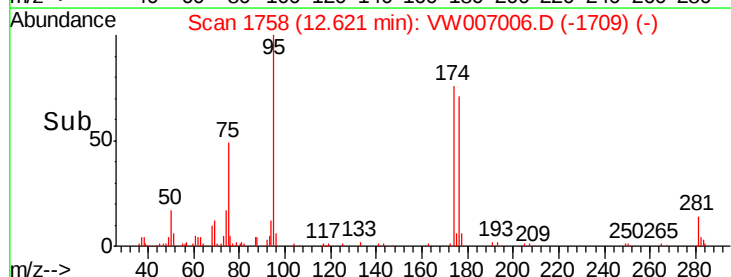
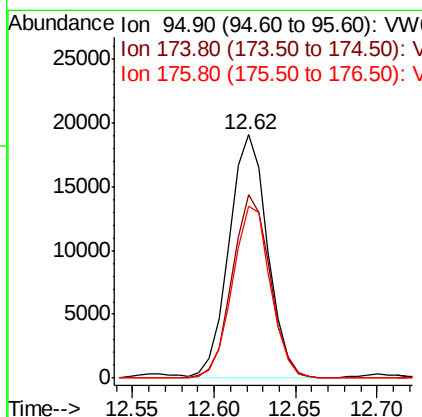
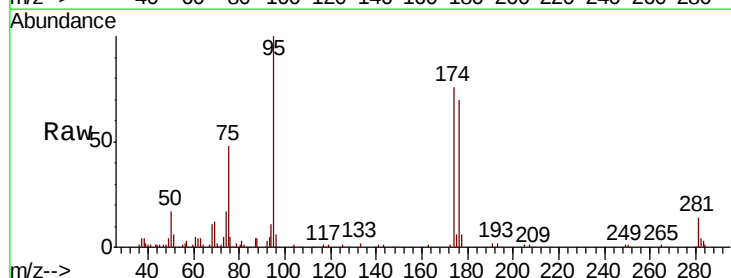
Instrument :
MSVOA_W
ClientSampled :

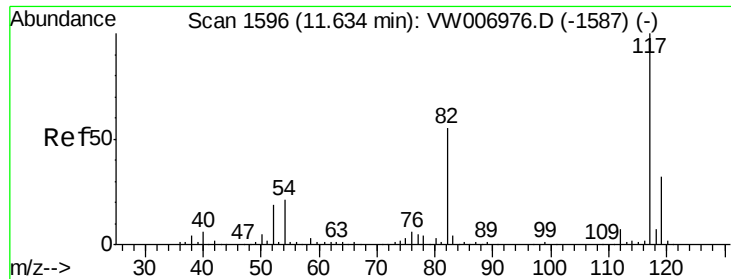
Tot Ion:129 Resp: 906
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#



#62
4-Bromofluorobenzene
Concen: 35.669 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion: 95 Resp: 31203
Ion Ratio Lower Upper
95 100
174 74.3 0.0 143.6
176 70.3 0.0 140.4

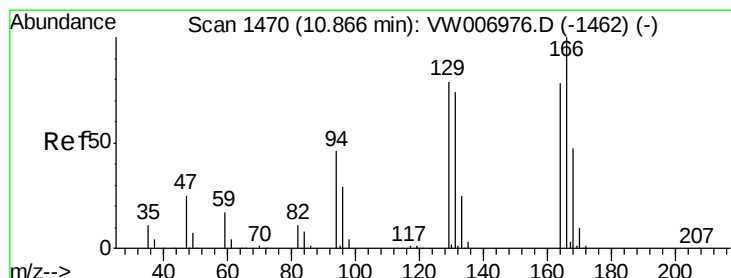
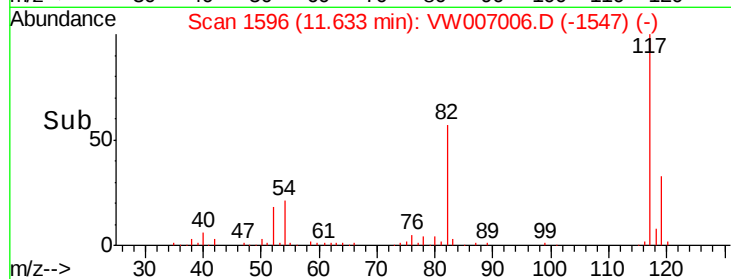
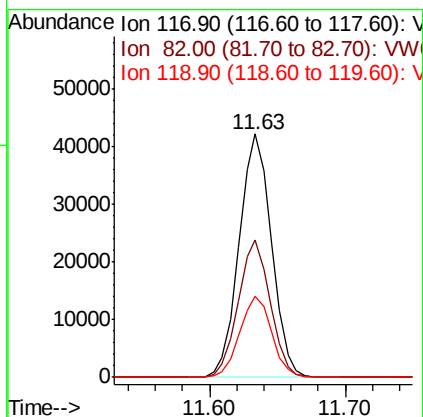
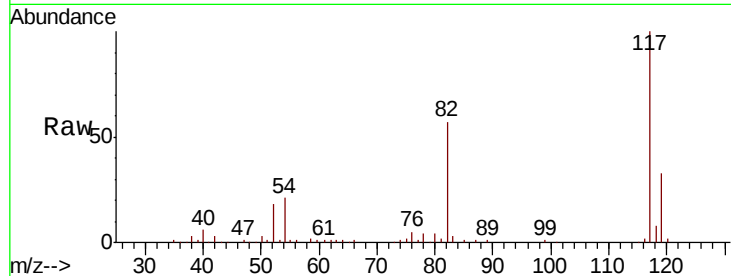




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

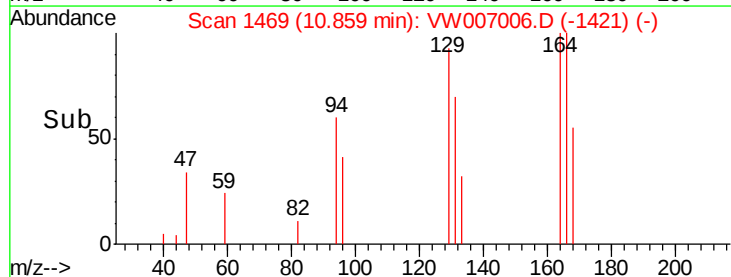
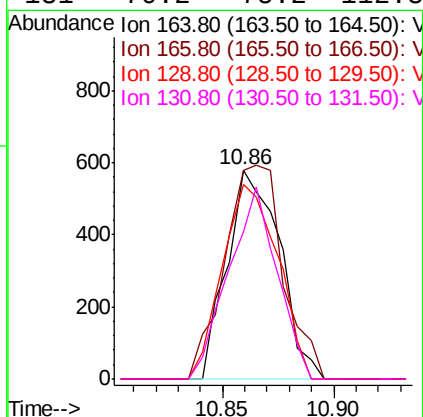
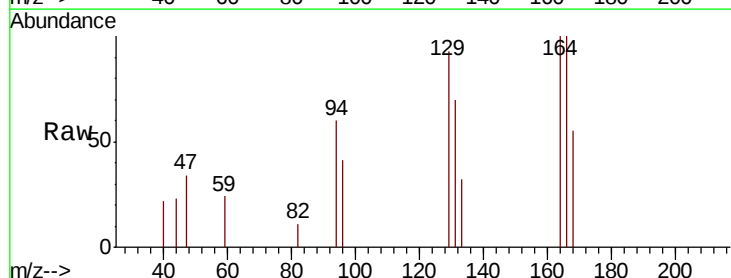
Instrument :
MSVOA_W
ClientSampleId :

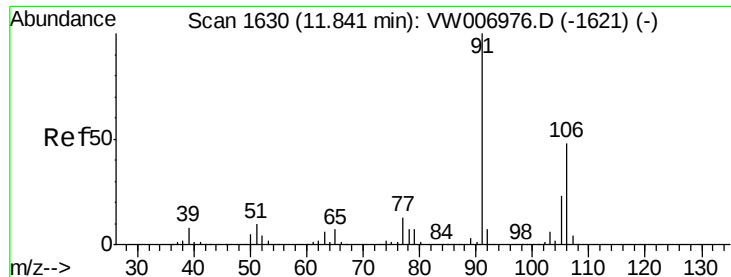
Tot Ion:117 Resp: 70097
Ion Ratio Lower Upper
117 100
82 56.5 44.2 66.2
119 33.1 25.9 38.9



#64
Tetrachloroethene
Concen: 2.116 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion:164 Resp: 954
Ion Ratio Lower Upper
164 100
166 99.7 102.1 153.1#
129 92.9 80.4 120.6
131 70.2 75.2 112.8#

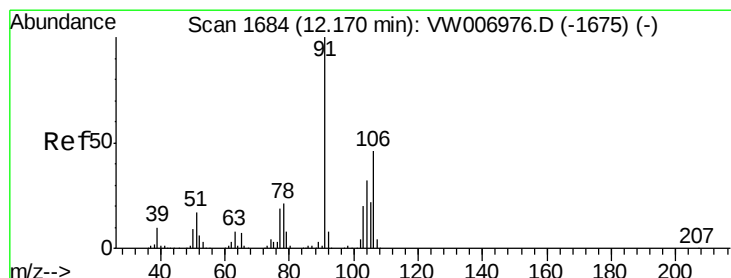
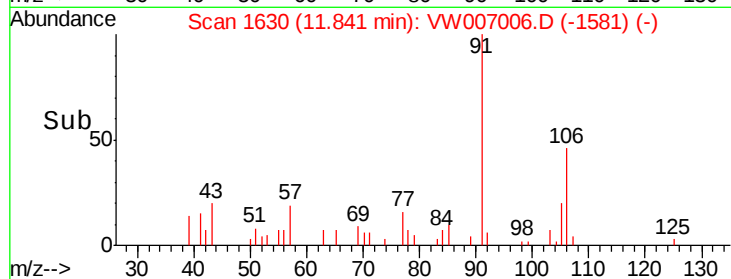
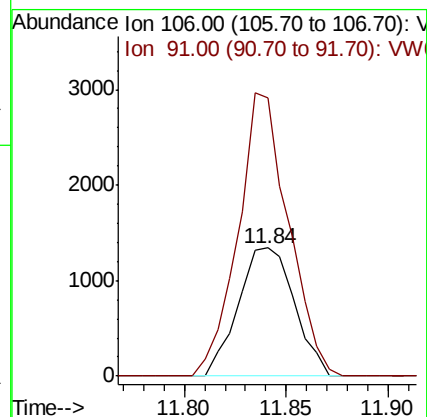
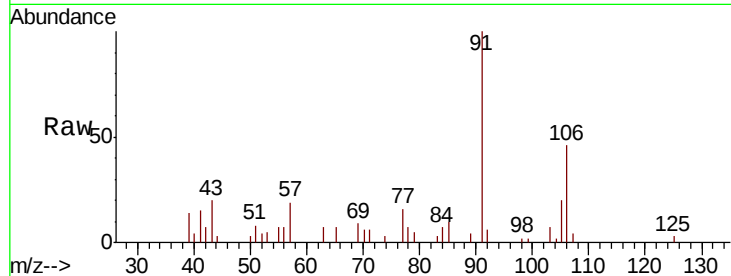




#68
m/p-Xylenes
Concen: 2.428 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

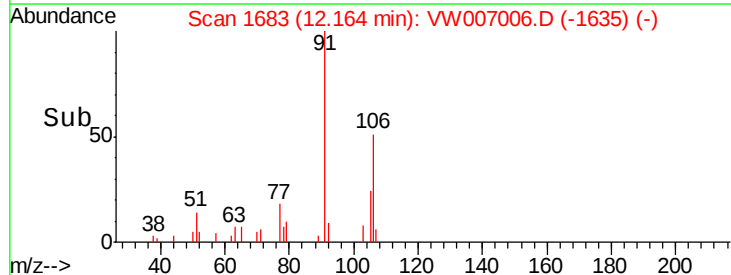
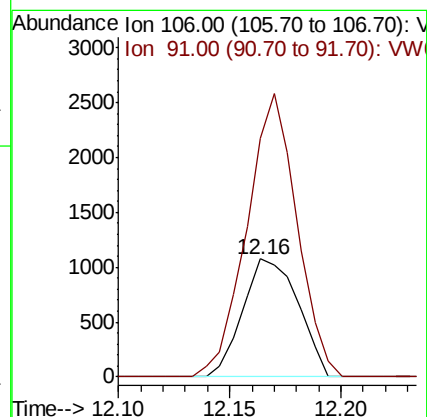
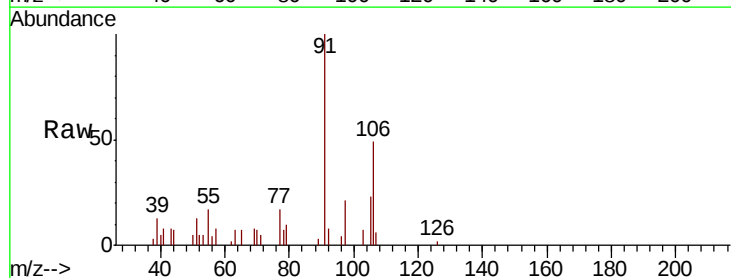
Instrument :
MSVOA_W
ClientSampleId :

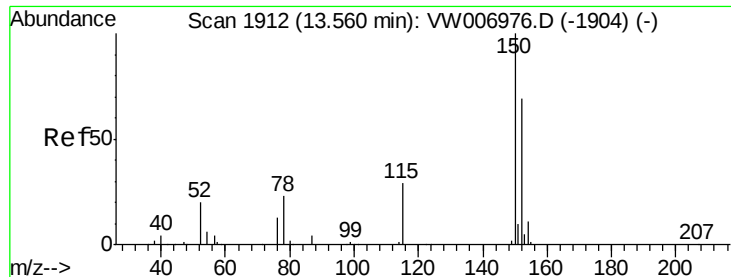
Tot Ion:106 Resp: 2560
Ion Ratio Lower Upper
106 100
91 199.1 164.8 247.2



#69
o-Xylene
Concen: 1.876 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion:106 Resp: 1865
Ion Ratio Lower Upper
106 100
91 216.9 107.9 323.8



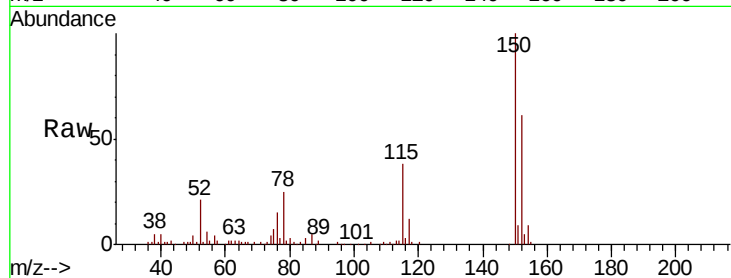


#72

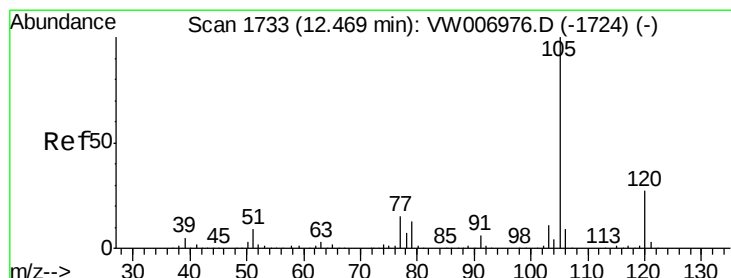
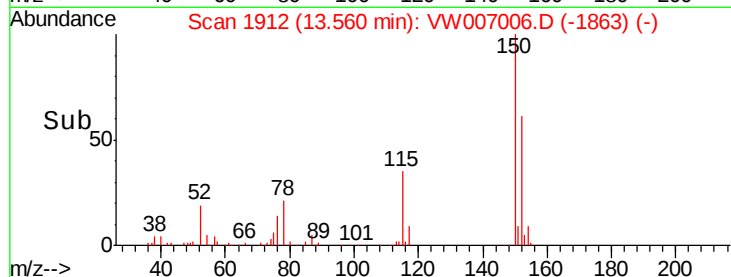
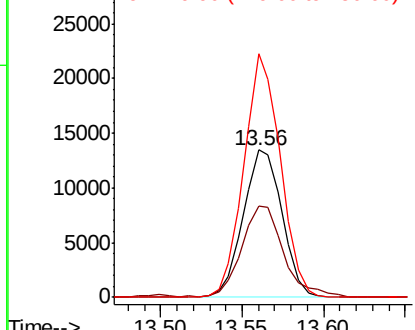
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:152 Resp: 22404
Ion Ratio Lower Upper
152 100
115 67.0 31.4 94.2
150 154.4 0.0 353.4



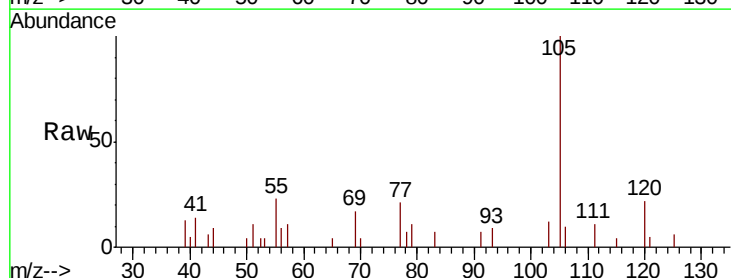
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



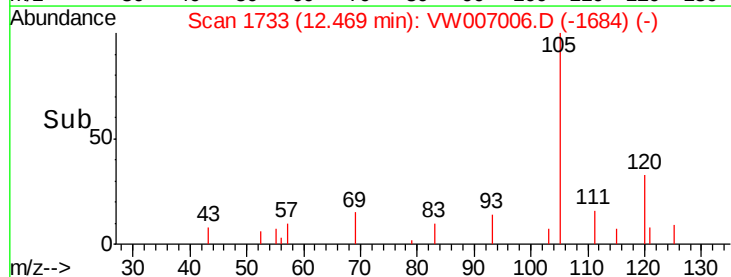
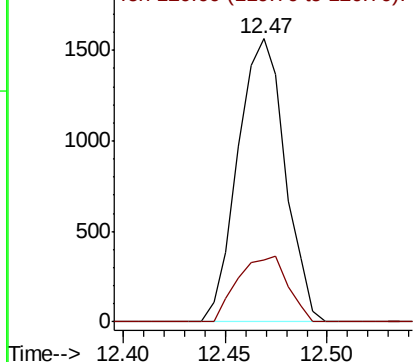
#73

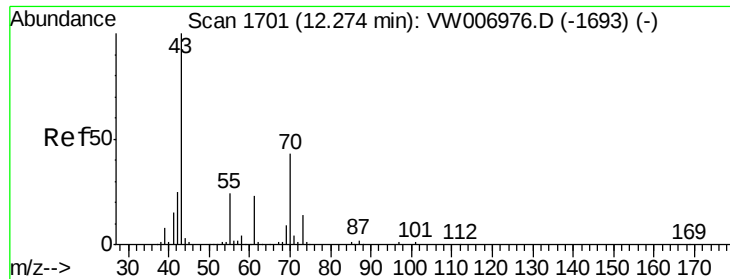
Isopropylbenzene
Concen: 1.446 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion:105 Resp: 2517
Ion Ratio Lower Upper
105 100
120 24.6 13.3 39.8



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





#74

N-amvl acetate

Concen: 3.159 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 922

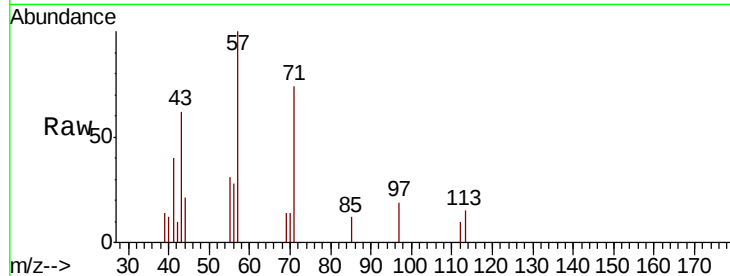
Ion Ratio Lower Upper

43 100

70 16.6 34.0 51.0#

55 0.0 19.4 29.0#

61 0.0 19.4 29.2#

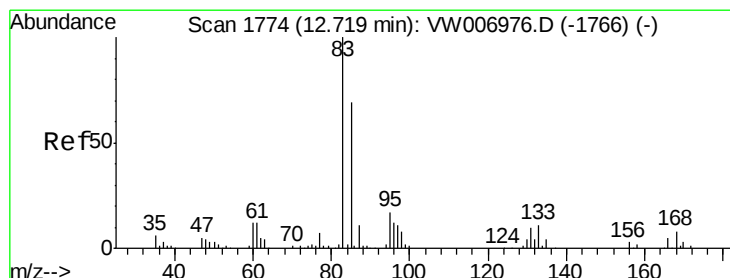
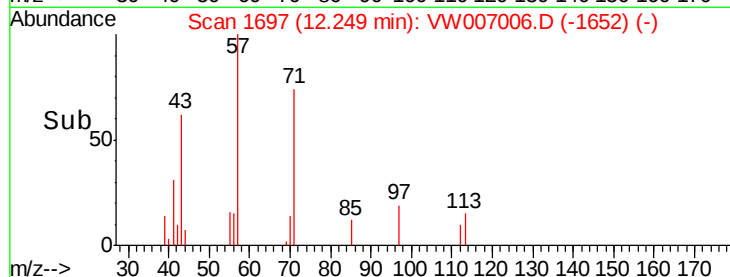
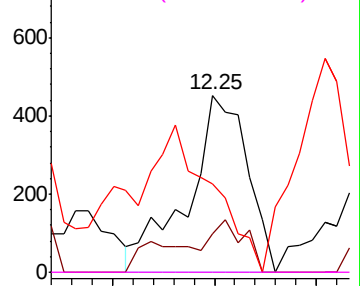


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.730 ug/l

RT: 12.70 min Scan# 1771

Delta R.T. -0.02 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

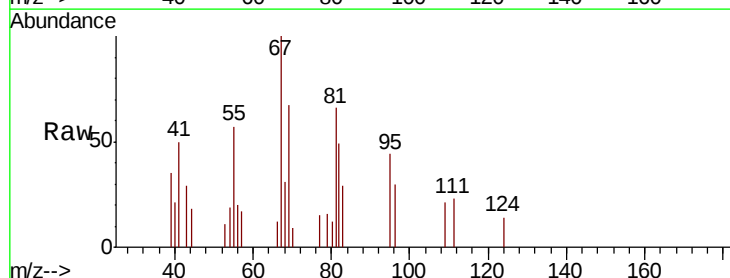
Tgt Ion: 83 Resp: 401

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

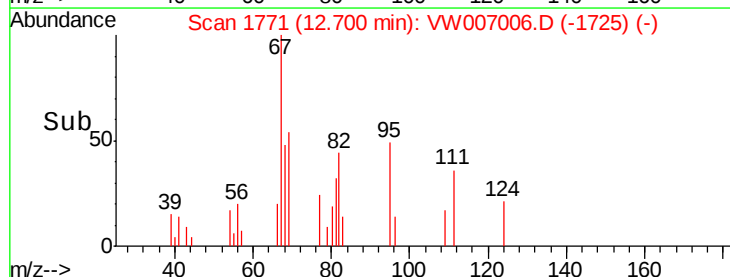
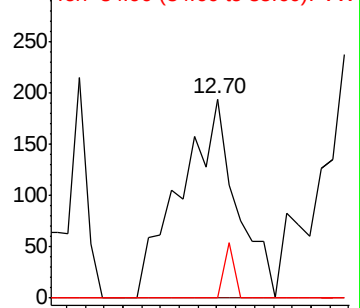
85 0.0 33.1 99.2#

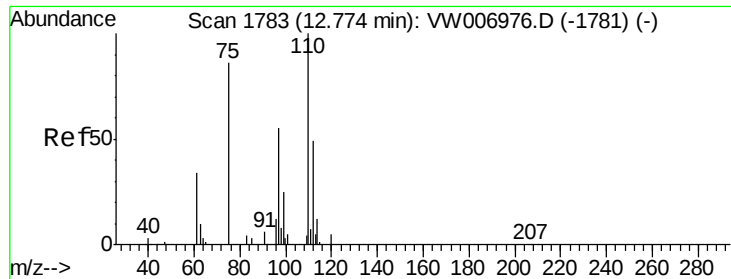


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



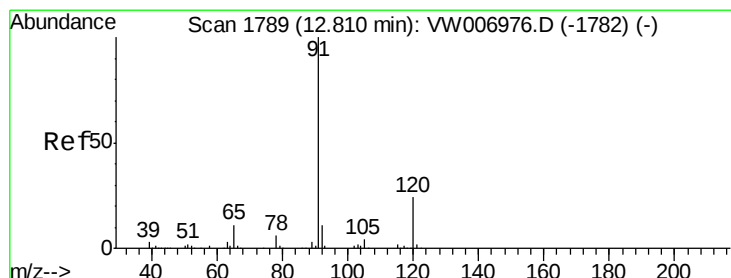
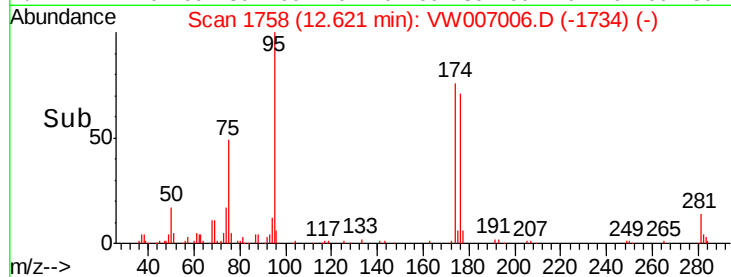
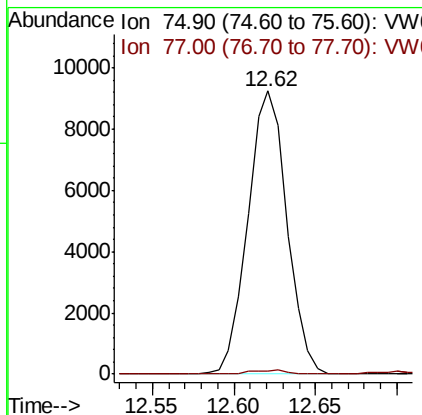
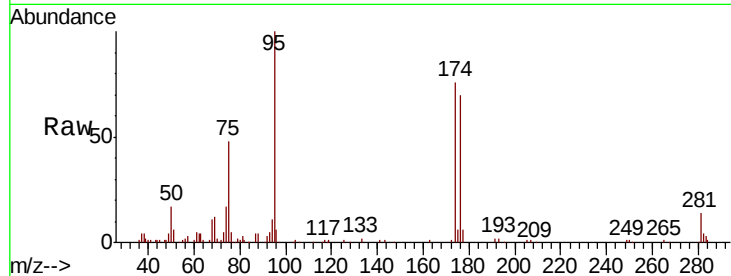


#76

1,2,3-Trichloropropane
Concen: 87.657 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Instrument :
MSVOA_W
ClientSampled :

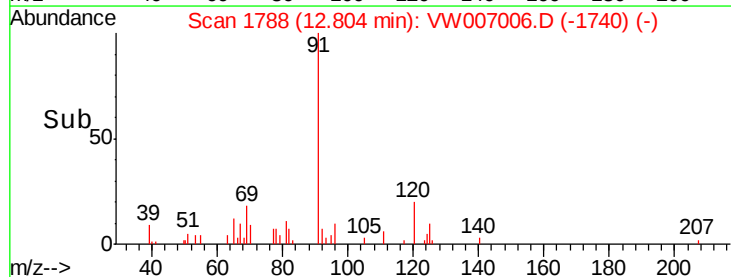
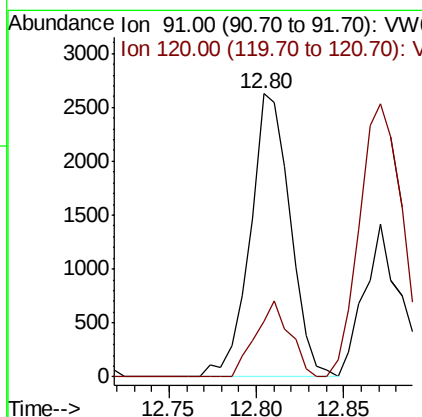
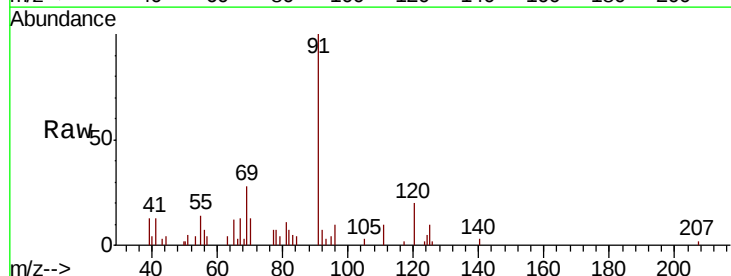
Tot Ion: 75 Resp: 15432
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#

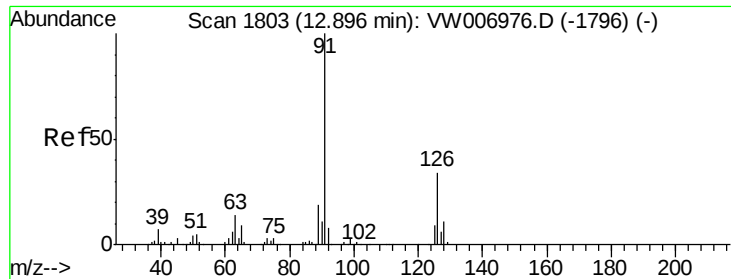


#78

n-propylbenzene
Concen: 1.977 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.01 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion: 91 Resp: 4169
Ion Ratio Lower Upper
91 100
120 23.0 11.7 35.1





#79

2-Chlorotoluene

Concen: 2.122 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.02 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

Instrument :

MSVOA_W

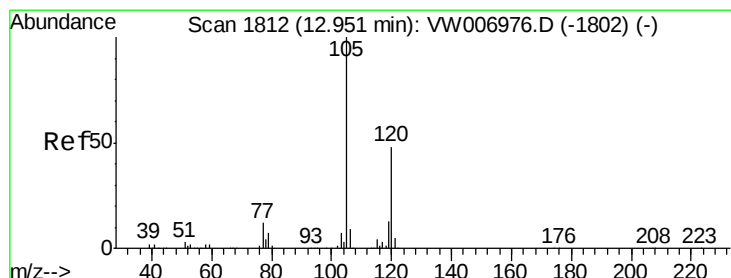
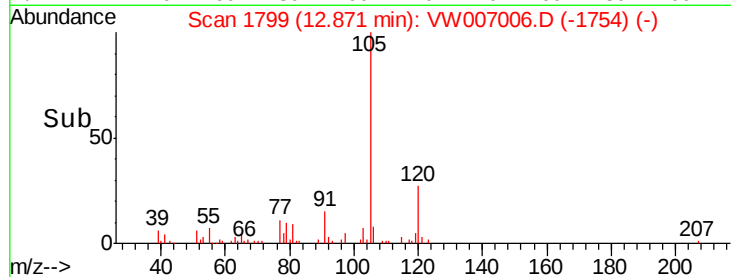
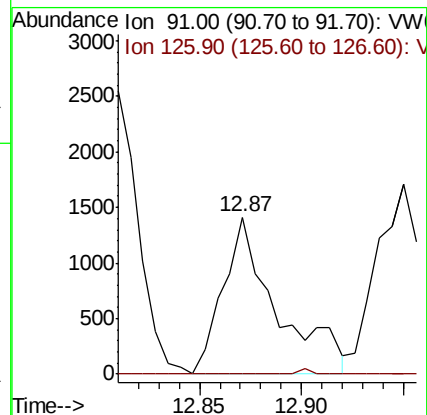
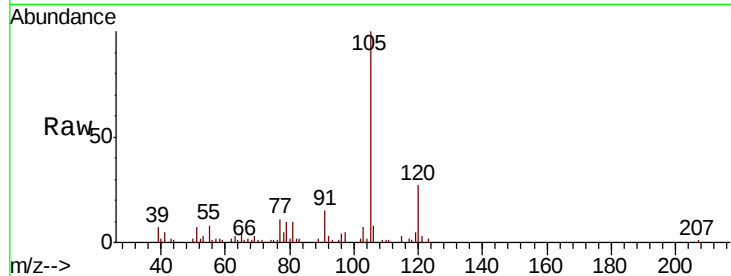
ClientSampled :

Tot Ion: 91 Resp: 2580

Ion Ratio Lower Upper

91 100

126 0.0 16.7 50.0#



#80

1,3,5-Trimethylbenzene

Concen: 14.977 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW007006.D

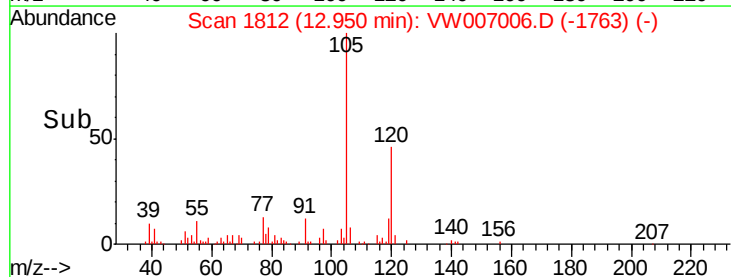
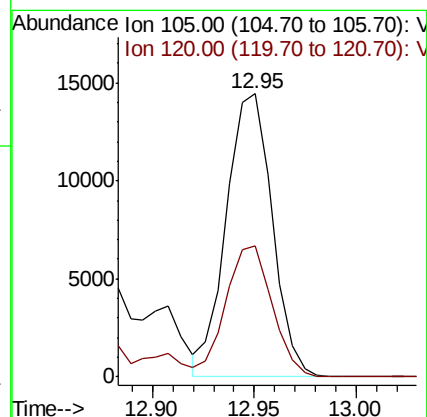
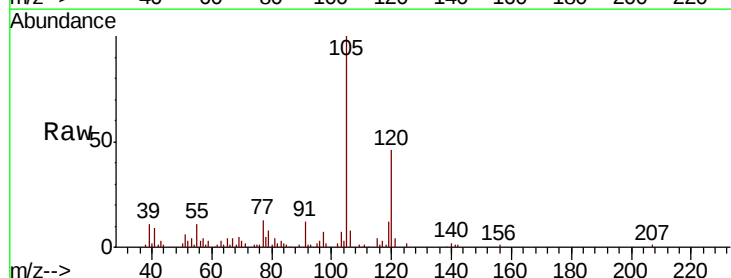
Acq: 21 Nov 2018 17:59

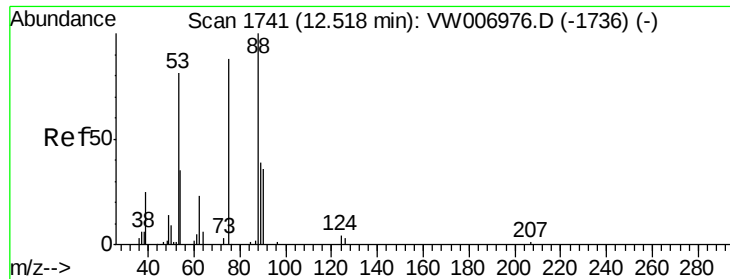
Tgt Ion:105 Resp: 22551

Ion Ratio Lower Upper

105 100

120 46.6 23.8 71.2





#81

trans-1,4-Dichloro-2-butene

Concen: 220.072 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

Instrument :

MSVOA_W

ClientSampleId :

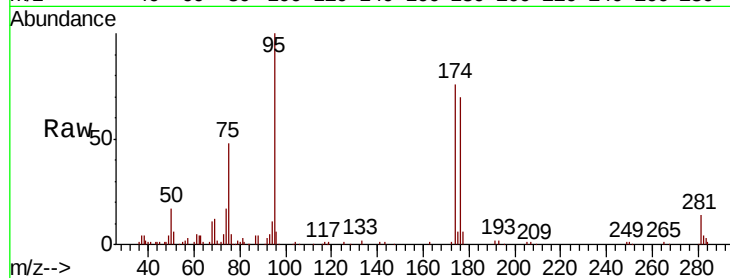
Tot Ion: 75 Resp: 15432

Ion Ratio Lower Upper

75 100

53 0.1 77.6 116.4#

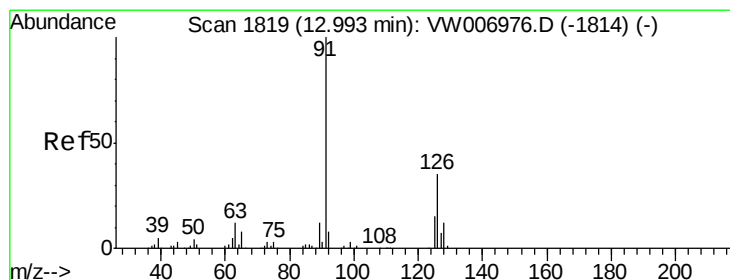
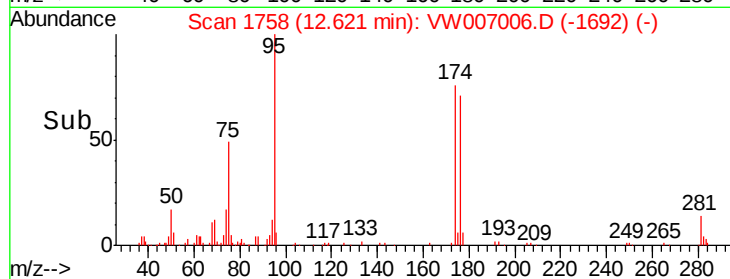
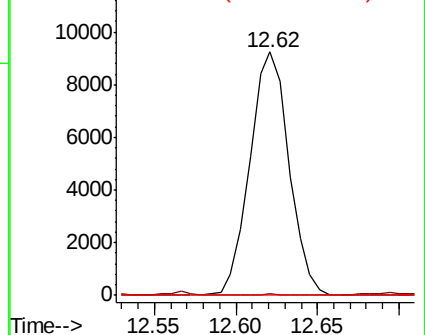
89 0.0 39.3 58.9#



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



#82

4-Chlorotoluene

Concen: 2.184 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.04 min

Lab File: VW007006.D

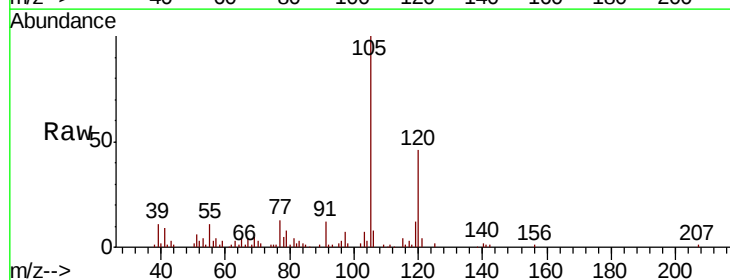
Acq: 21 Nov 2018 17:59

Tgt Ion: 91 Resp: 2787

Ion Ratio Lower Upper

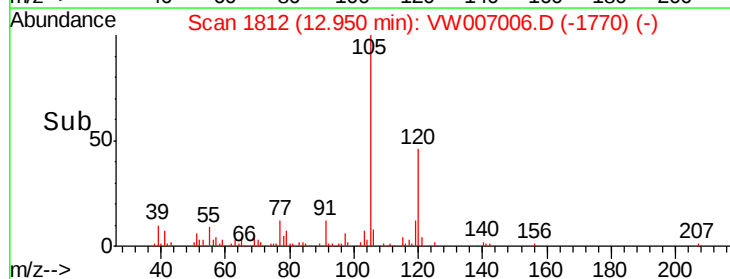
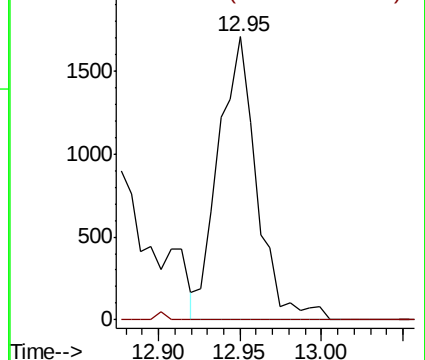
91 100

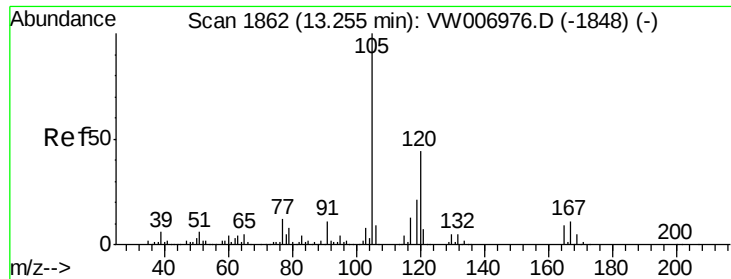
126 0.0 16.6 49.7#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

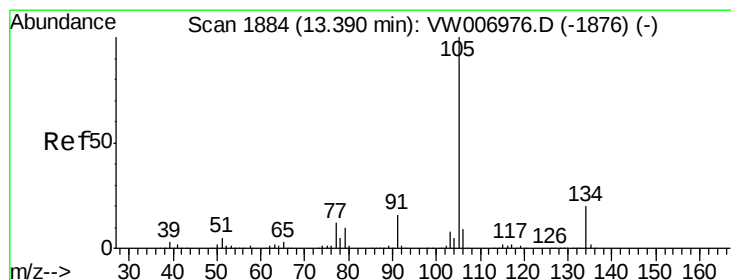
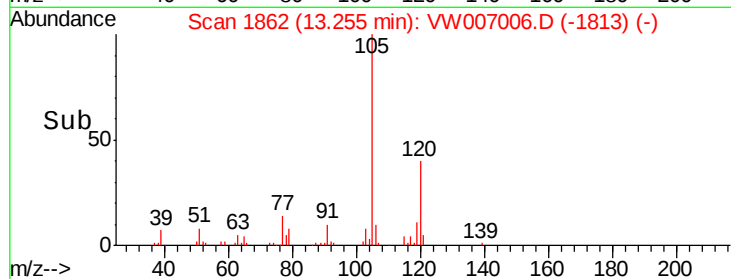
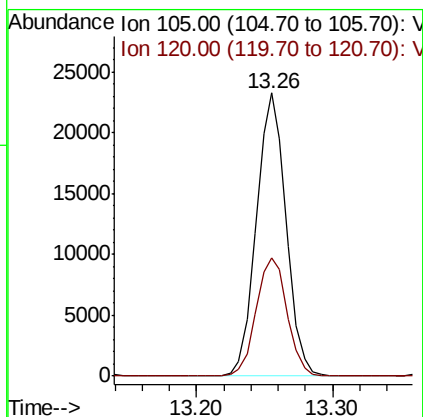
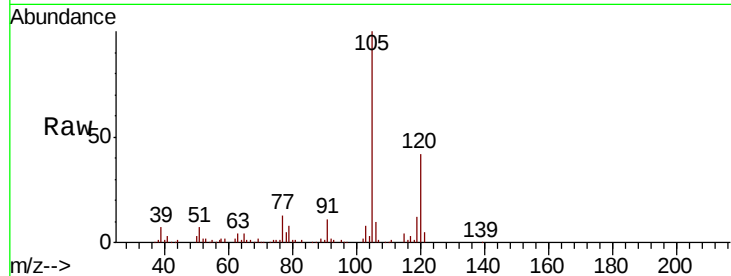




#84
 1,2,4-Trimethylbenzene
 Concen: 23.726 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007006.D
 Acq: 21 Nov 2018 17:59

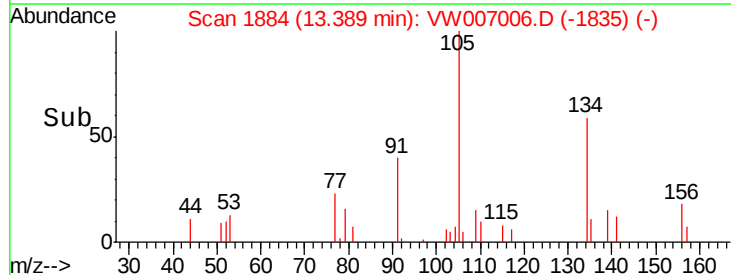
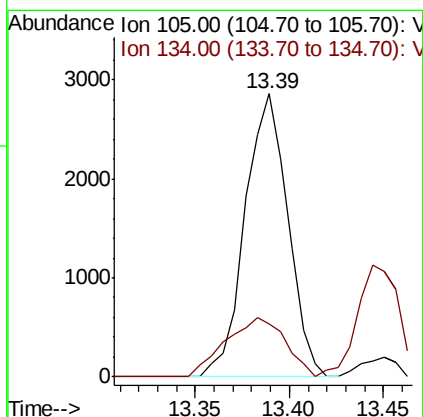
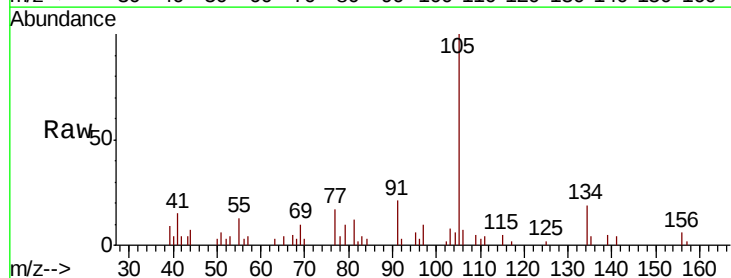
Instrument :
 MSVOA_W
 ClientSampled :

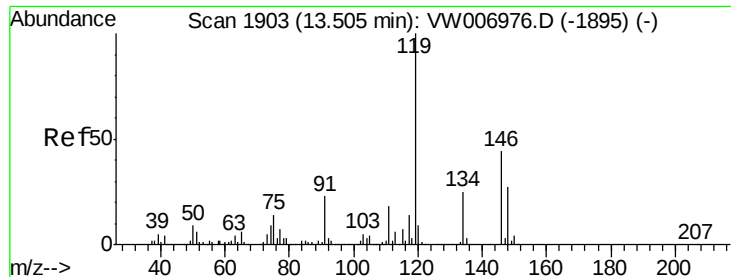
Tot Ion:105 Resp: 35593
 Ion Ratio Lower Upper
 105 100
 120 43.5 21.8 65.3



#85
 sec-Butylbenzene
 Concen: 2.440 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW007006.D
 Acq: 21 Nov 2018 17:59

Tgt Ion:105 Resp: 4494
 Ion Ratio Lower Upper
 105 100
 134 29.1 9.8 29.3

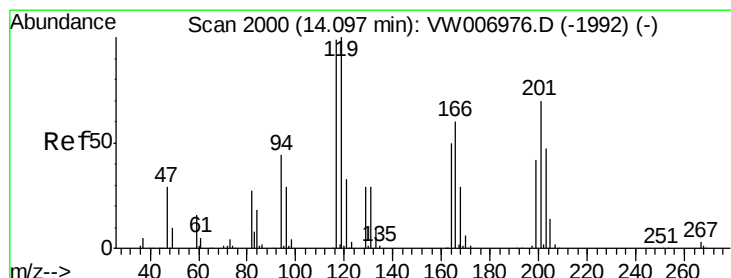
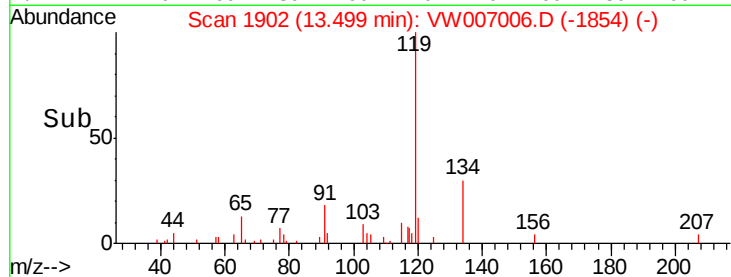
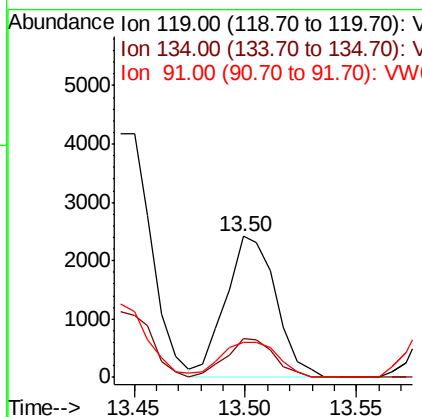
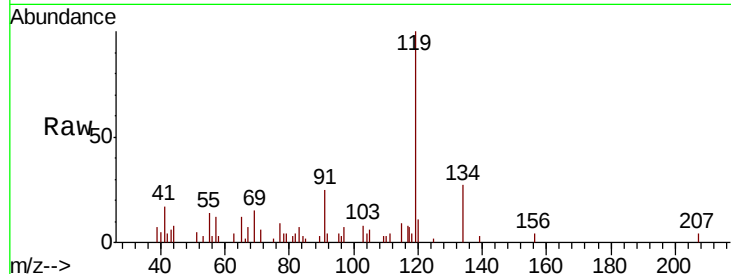




#86
p-Isopropyltoluene
Concen: 2.331 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.01 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

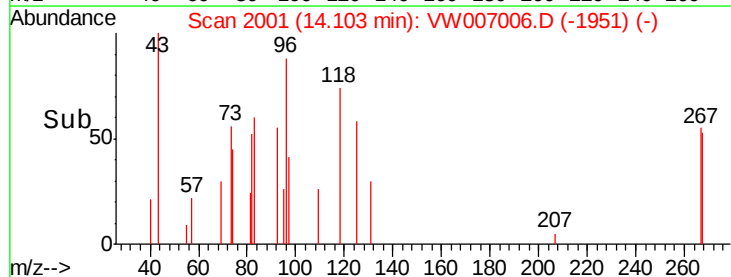
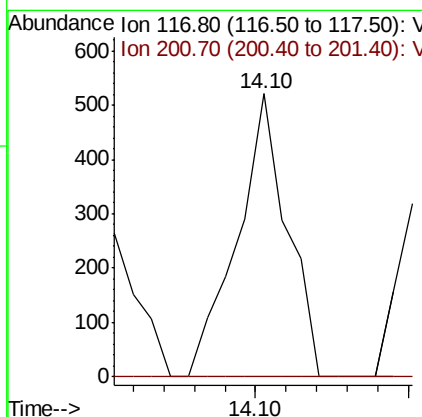
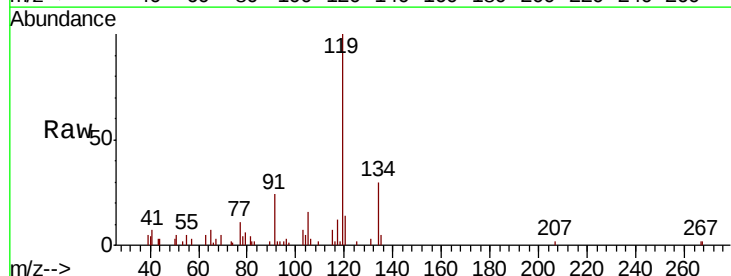
Instrument :
MSVOA_W
ClientSampled :

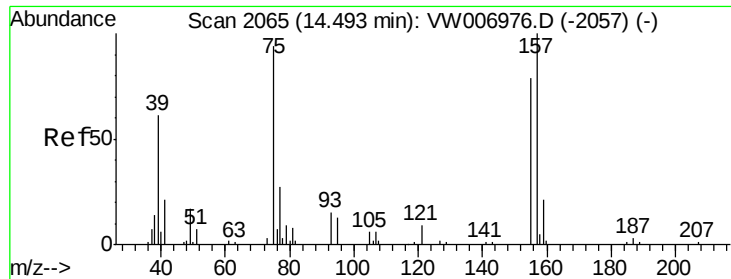
Tot Ion:119 Resp: 3787
Ion Ratio Lower Upper
119 100
134 26.4 12.8 38.3
91 28.7 12.2 36.6



#90
Hexachloroethane
Concen: 2.479 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW007006.D
Acq: 21 Nov 2018 17:59

Tgt Ion:117 Resp: 588
Ion Ratio Lower Upper
117 100
201 0.0 35.9 107.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.738 ug/l

RT: 14.21 min Scan# 2019

Delta R.T. -0.28 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

Instrument :

MSVOA_W

ClientSampleId :

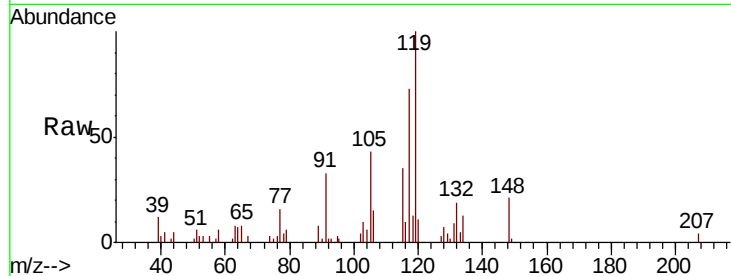
Tot Ion: 75 Resp: 68

Ion Ratio Lower Upper

75 100

155 0.0 42.6 127.8#

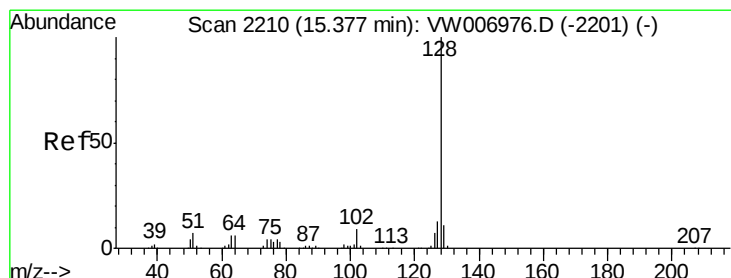
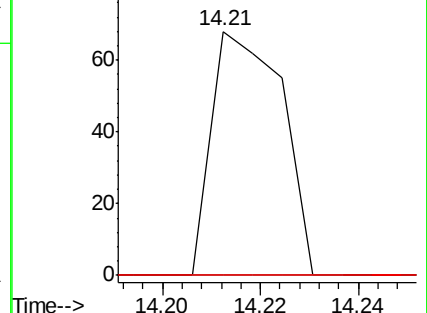
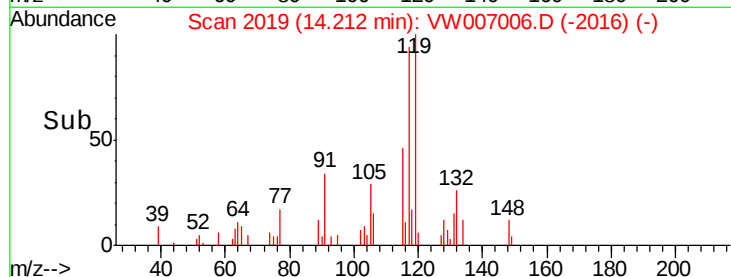
157 0.0 55.0 165.0#



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: 2.329 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW007006.D

Acq: 21 Nov 2018 17:59

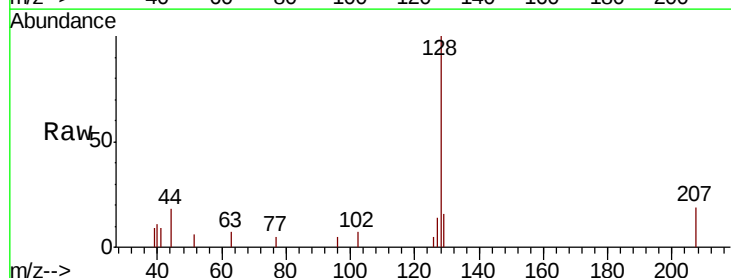
Tgt Ion: 128 Resp: 1865

Ion Ratio Lower Upper

128 100

127 16.0 10.5 15.7#

129 10.2 8.7 13.1



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

