

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030519\
 Data File : VW009008.D
 Acq On : 05 Mar 2019 20:24
 Operator : SY/VA
 Sample : K1688-17RE
 Misc : 6.88G/5ML/MSVOA W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 06 06:53:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	327014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	514407	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	453895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	187662	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	183035	59.68	ug/l	0.00
Spiked Amount			Recovery	=	119.36%	
35) Dibromofluoromethane	7.88	113	154922	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
50) Toluene-d8	10.32	98	612303	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
62) 4-Bromofluorobenzene	12.62	95	203609	43.62	ug/l	0.00
Spiked Amount			Recovery	=	87.24%	

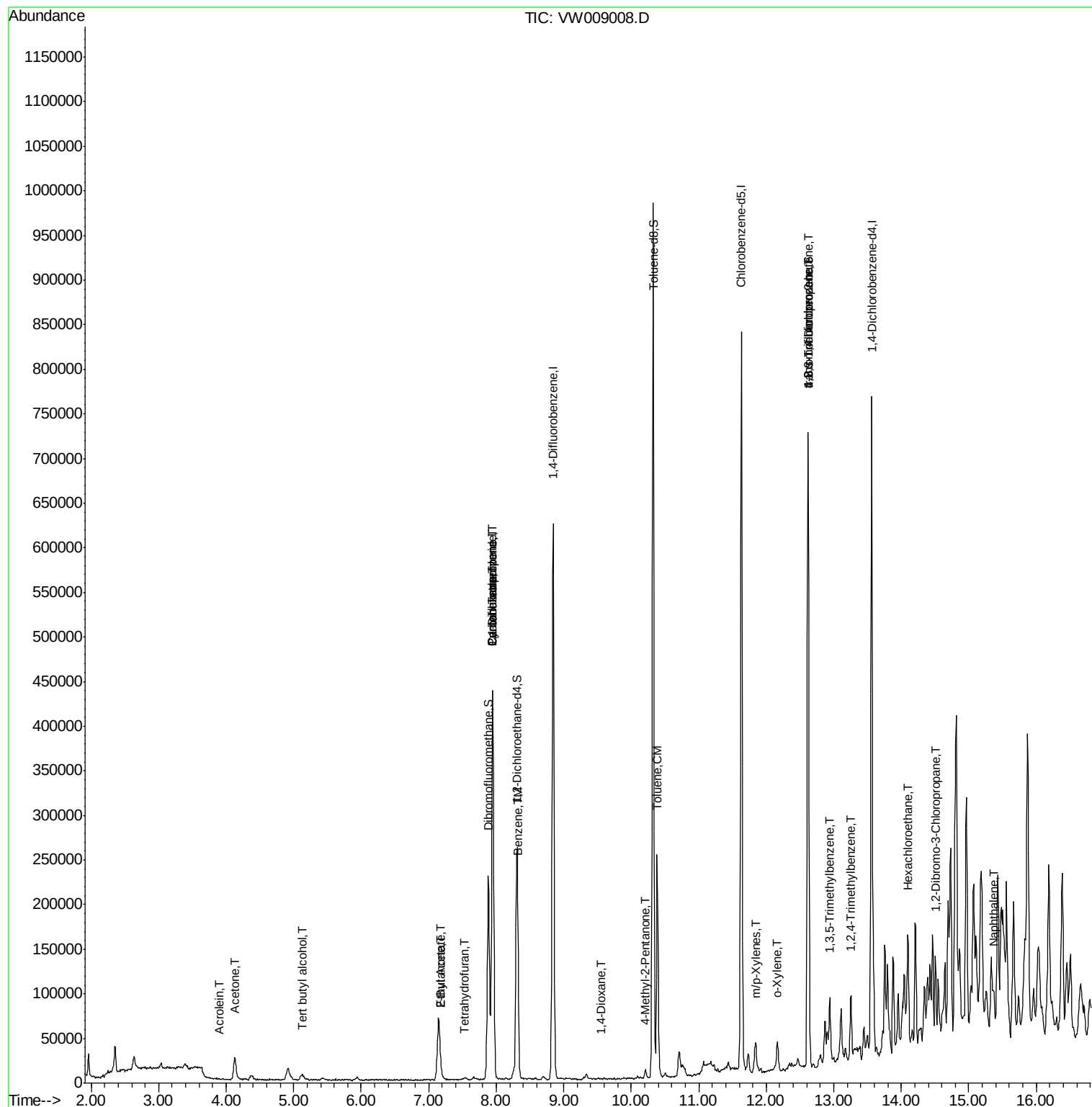
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.13	59	3064	11.221	ug/l #	70
13) Acrolein	3.90	56	104	20.112	ug/l #	14
16) Acetone	4.12	43	43113	60.643	ug/l	100
20) Methylene Chloride	4.91	84	9337	Below Cal		90
25) 2-Butanone	7.18	43	9758	9.818	ug/l	98
29) Tetrahydrofuran	7.53	42	2061	3.254	ug/l #	74
31) Cyclohexane	7.95	56	8876	1.535	ug/l #	35
36) 1,1-Dichloropropene	7.95	75	25079	5.008	ug/l #	51
37) Ethyl Acetate	7.18	43	9758	4.191	ug/l #	73
38) Carbon Tetrachloride	7.95	117	32473	6.149	ug/l #	16
40) Benzene	8.32	78	33304	2.436	ug/l	96
49) 1,4-Dioxane	9.54	88	80	2.658	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	5564	2.358	ug/l	99
52) Toluene	10.38	92	106164	11.442	ug/l	97
68) m/p-Xylenes	11.84	106	8650	1.269	ug/l	99
69) o-Xylene	12.16	106	8170	1.277	ug/l	93
76) 1,2,3-Trichloropropane	12.62	75	110032	71.016	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	20904	1.870	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.62	75	110032	172.645	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	38225	3.303	ug/l	93
90) Hexachloroethane	14.10	117	6710	3.217	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	419	1.102	ug/l #	17
95) Naphthalene	15.37	128	15599	2.262	ug/l #	83

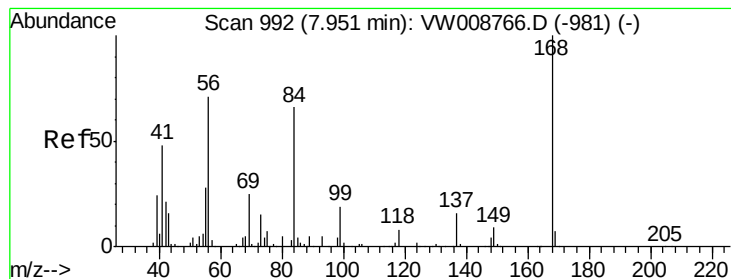
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW030519\
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Quant Time: Mar 06 06:53:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

Instrument :

MSVOA_W

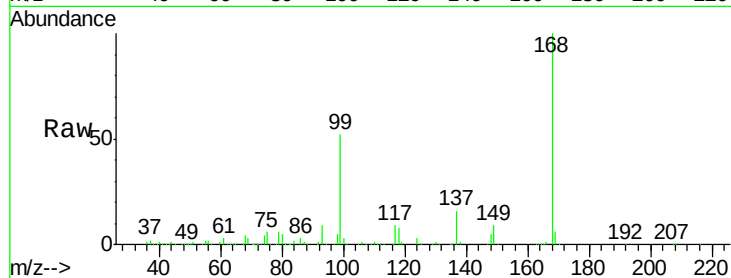
ClientSampleId :

Tot Ion:168 Resp: 327014

Ion Ratio Lower Upper

168 100

99 51.5 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

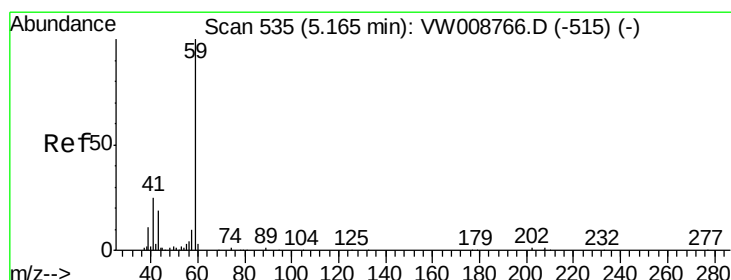
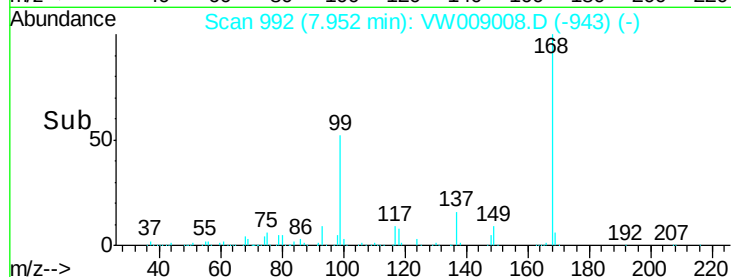
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 11.221 ug/l

RT: 5.13 min Scan# 529

Delta R.T. -0.04 min

Lab File: VW009008.D

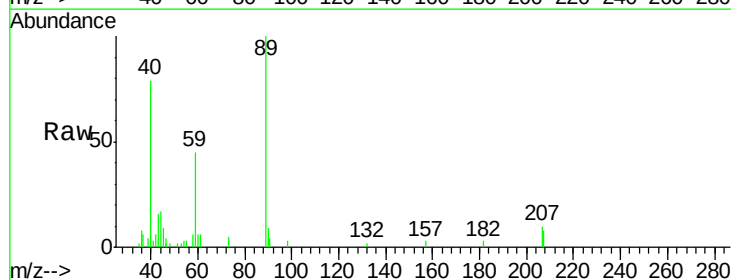
Acq: 05 Mar 2019 20:24

Tgt Ion: 59 Resp: 3064

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

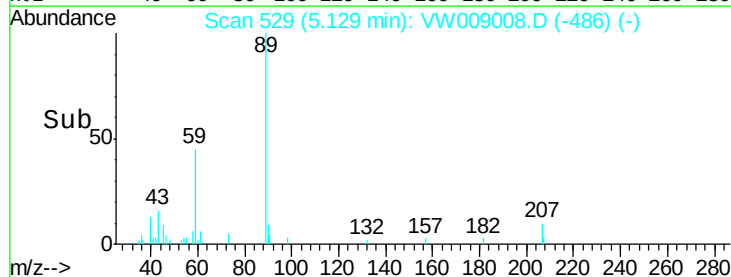
5.13

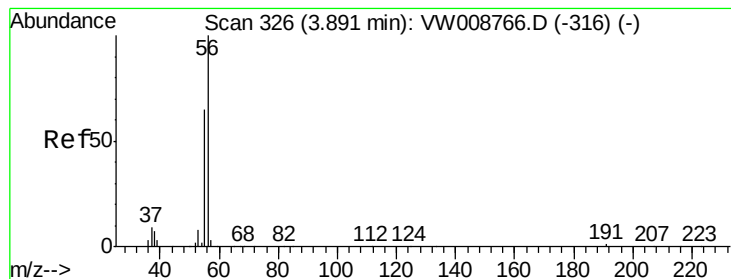
1000

500

0

Time--> 5.05 5.10 5.15





#13

Acrolein

Concen: 20.112 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

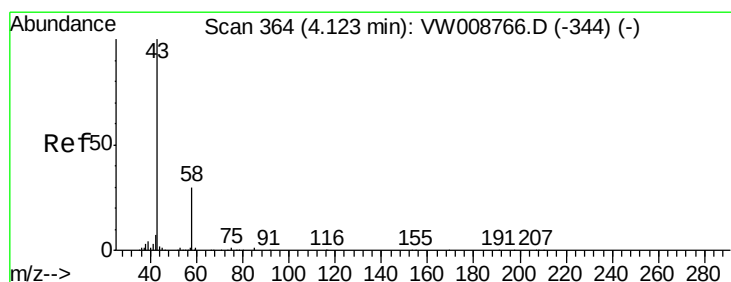
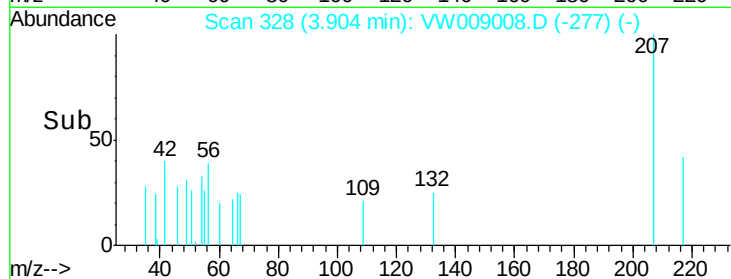
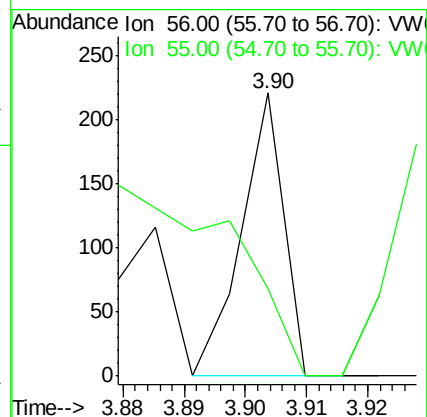
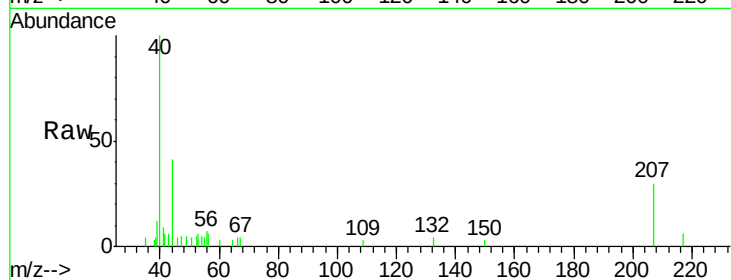
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 104

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 60.643 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW009008.D

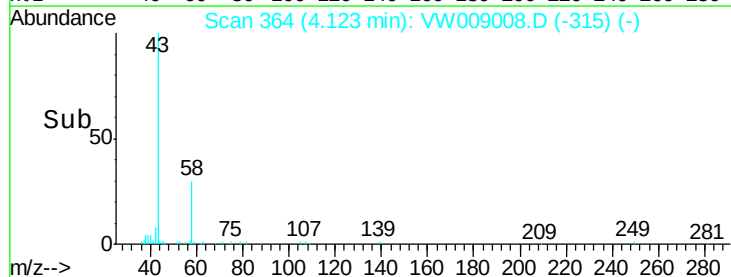
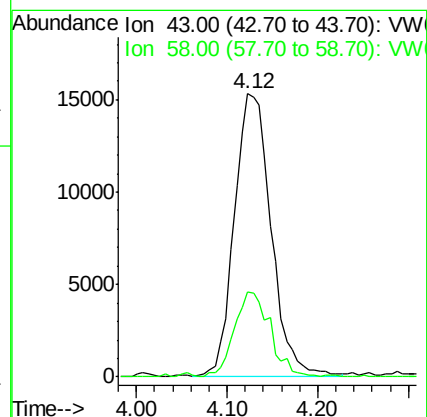
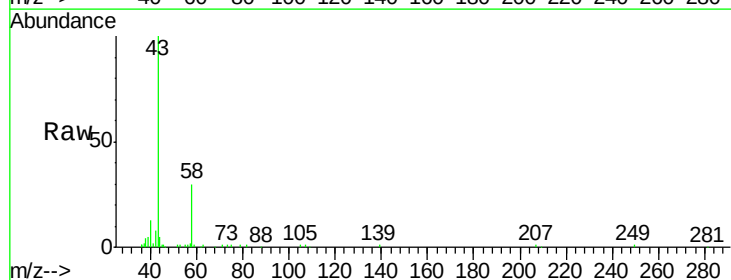
Acq: 05 Mar 2019 20:24

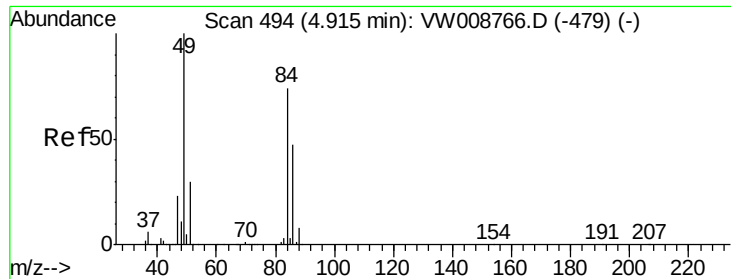
Tgt Ion: 43 Resp: 43113

Ion Ratio Lower Upper

43 100

58 29.5 23.8 35.6

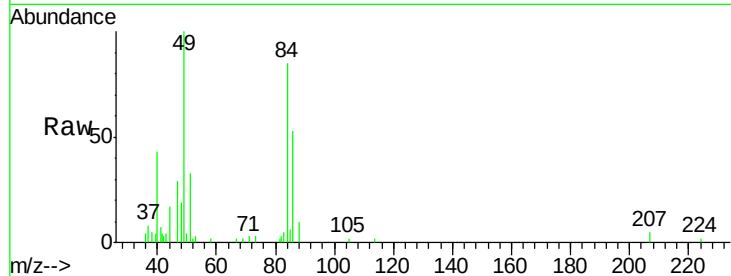




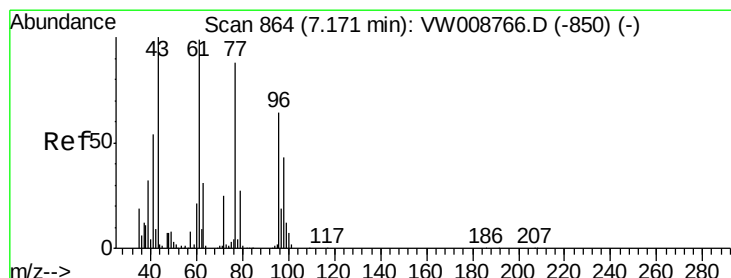
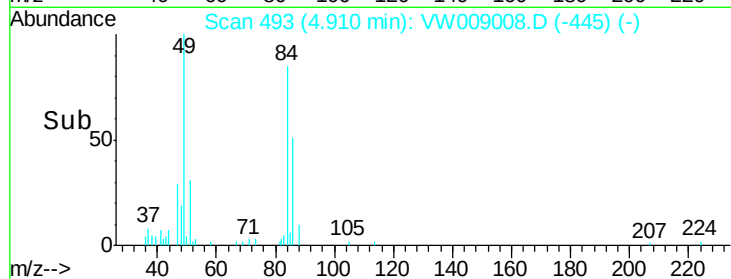
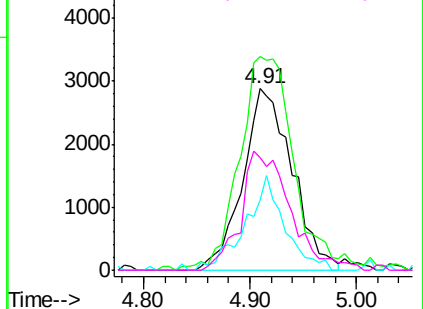
#20
Methylene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	84	Resp:	9337
Ion	Ratio	Lower	Upper
84	100		
49	115.3	108.2	162.2
51	39.1	32.7	49.1
86	62.3	50.3	75.5

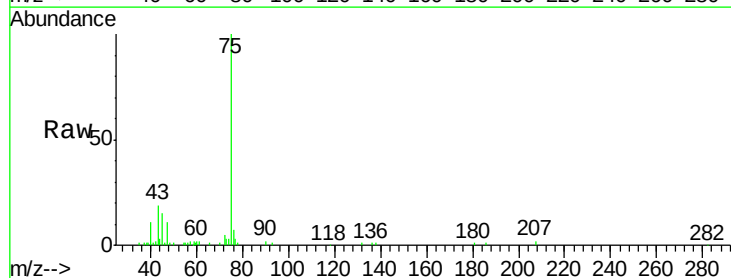


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

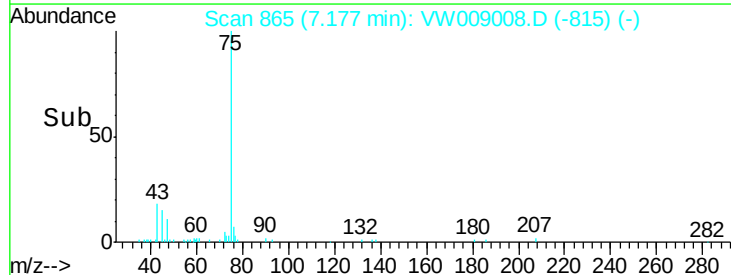
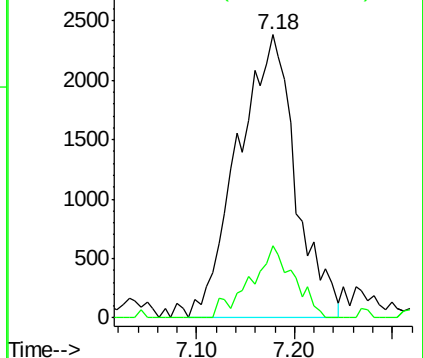


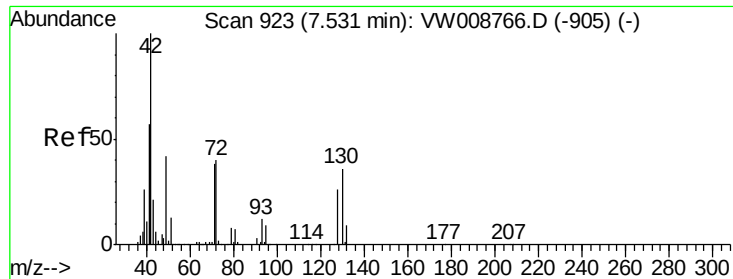
#25
2-Butanone
Concen: 9.818 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

Tgt Ion:	43	Resp:	9758
Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.7	29.5



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

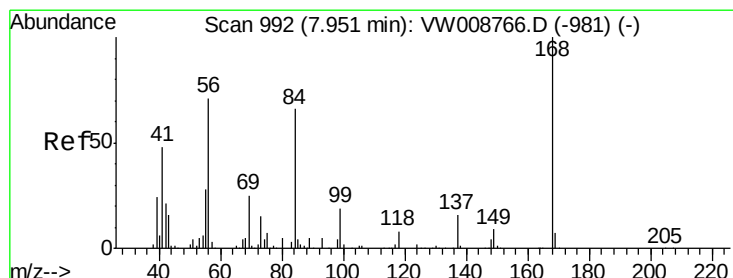
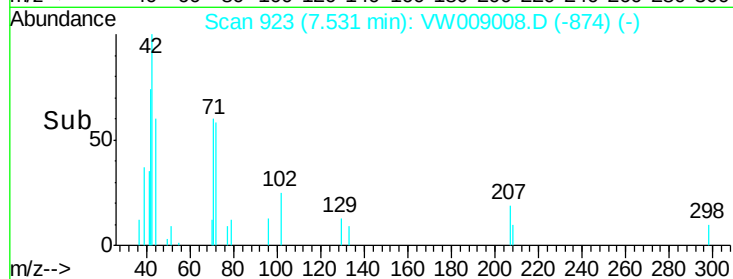
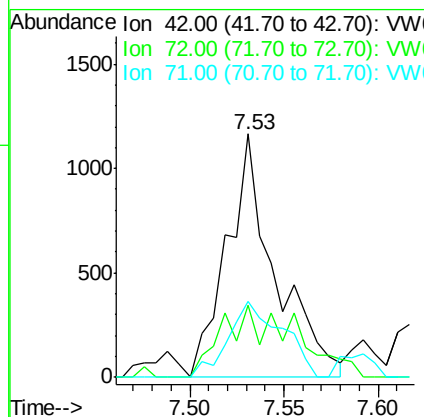
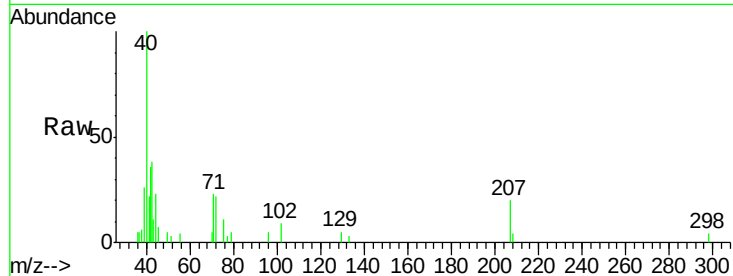




#29
Tetrahydrofuran
Concen: 3.254 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

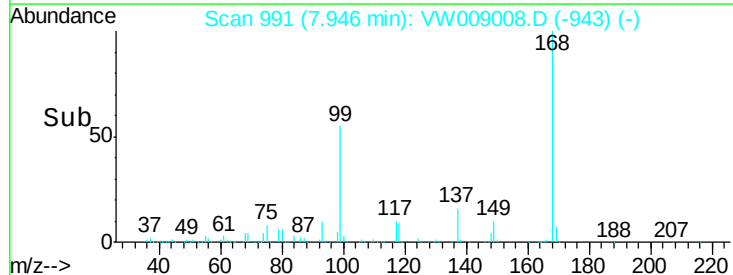
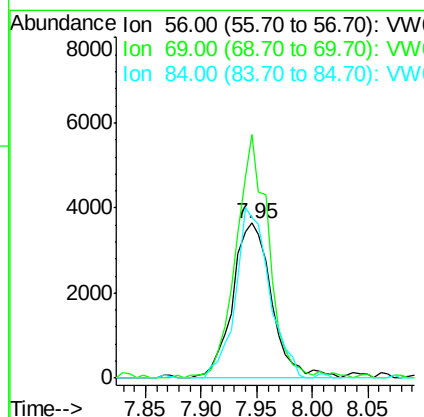
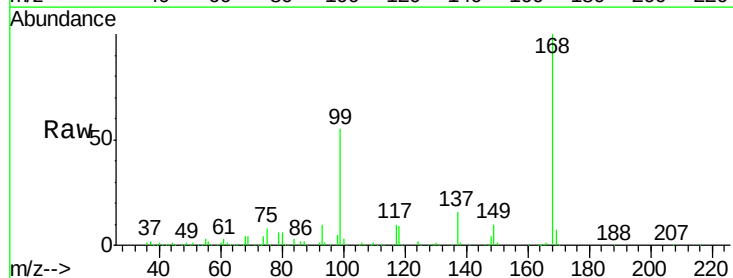
Instrument :
MSVOA_W
ClientSampleId :

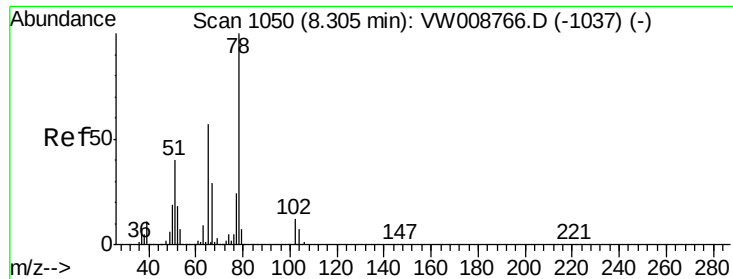
Tot Ion: 42 Resp: 2061
Ion Ratio Lower Upper
42 100
72 13.1 32.7 49.1#
71 35.0 31.3 46.9



#31
Cyclohexane
Concen: 1.535 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

Tgt Ion: 56 Resp: 8876
Ion Ratio Lower Upper
56 100
69 155.3 28.2 42.4#
84 103.7 74.1 111.1

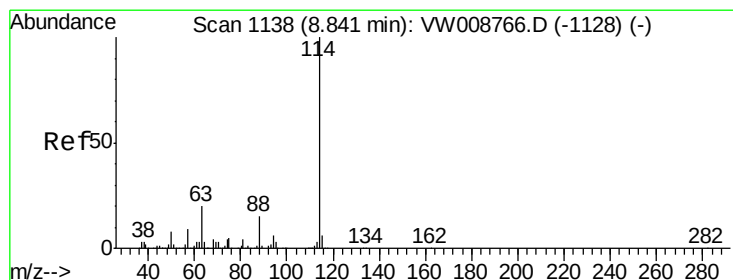
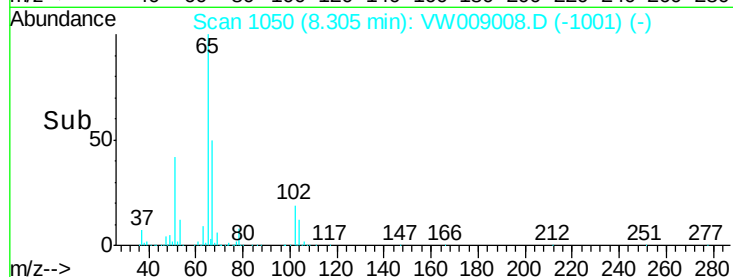
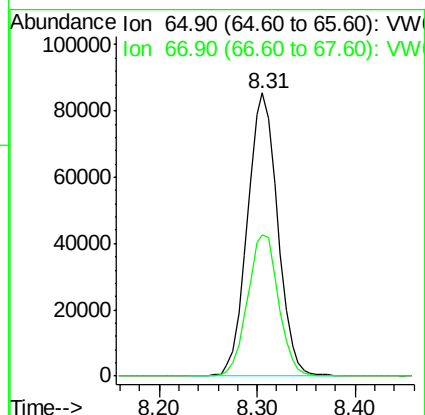
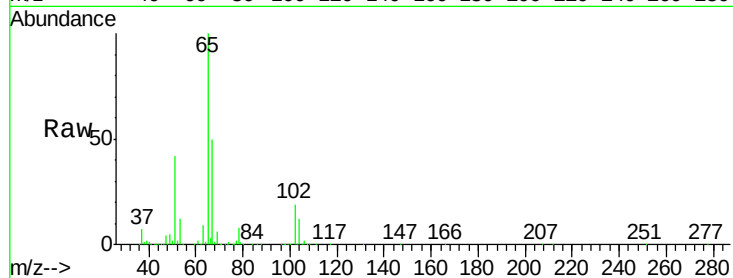




#33
 1,2-Dichloroethane-d4
 Concen: 59.677 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW009008.D
 Acq: 05 Mar 2019 20:24

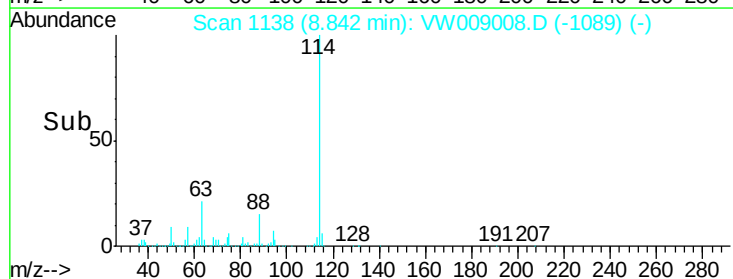
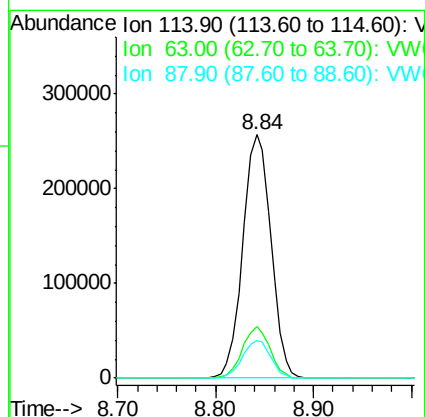
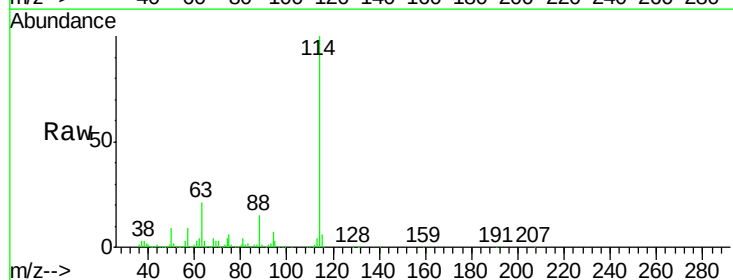
Instrument :
 MSVOA_W
 ClientSampleId :

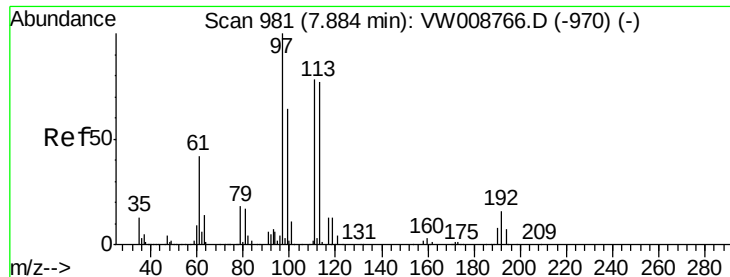
Tot Ion: 65 Resp: 183035
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW009008.D
 Acq: 05 Mar 2019 20:24

Tgt Ion: 114 Resp: 514407
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 40.8
 88 15.5 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.160 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

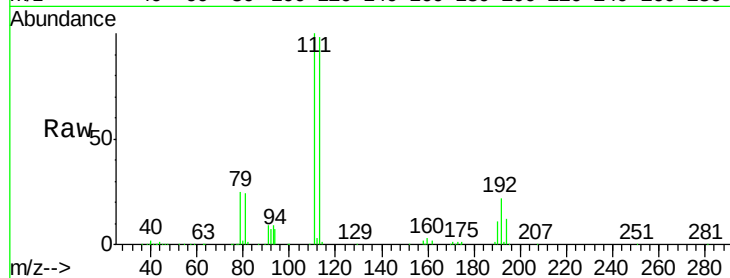
Tot Ion:113 Resp: 154922

Ion Ratio Lower Upper

113 100

111 101.2 81.9 122.9

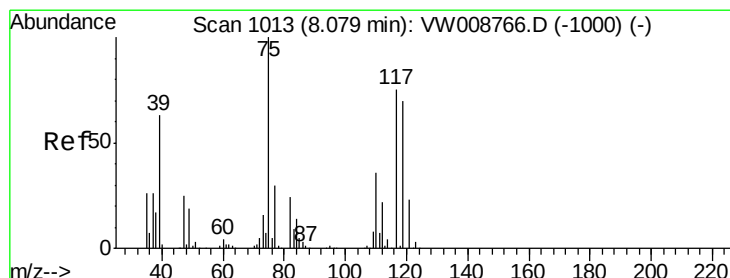
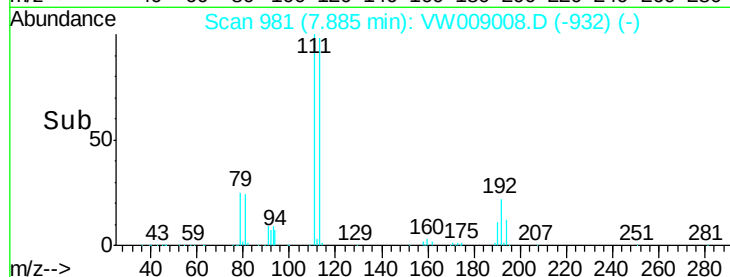
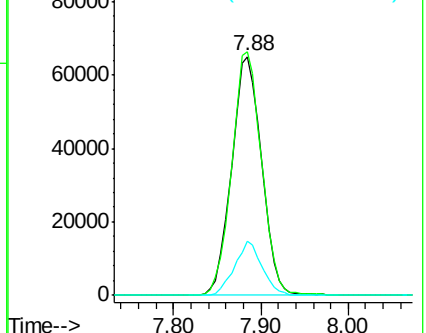
192 20.7 17.1 25.7



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: 5.008 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

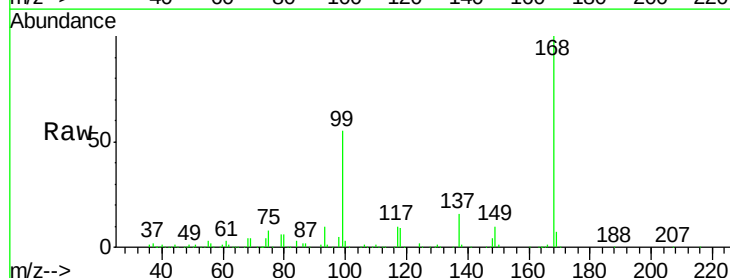
Tgt Ion: 75 Resp: 25079

Ion Ratio Lower Upper

75 100

110 10.6 17.5 52.6#

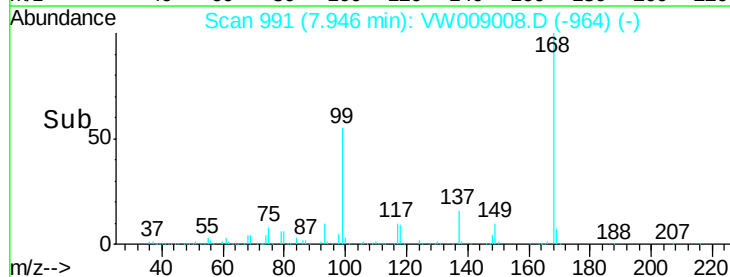
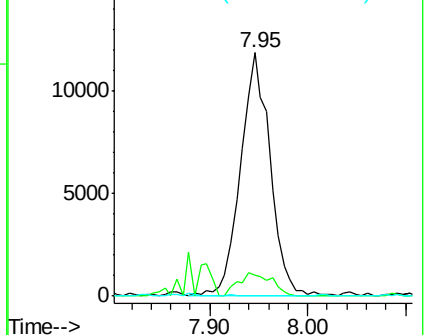
77 0.0 24.5 36.7#

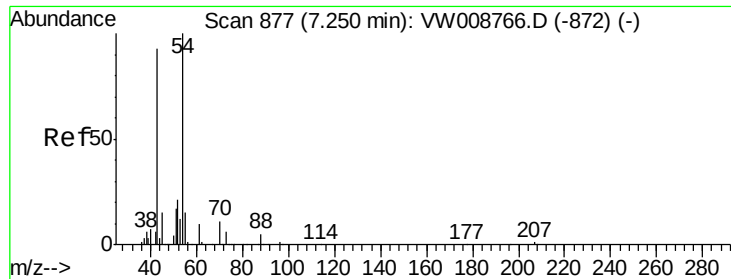


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

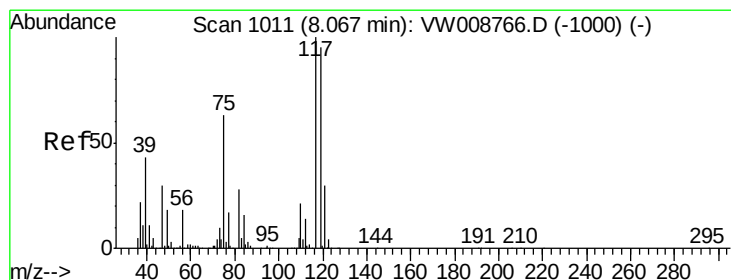
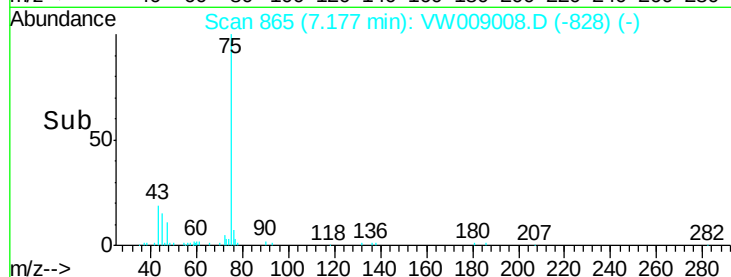
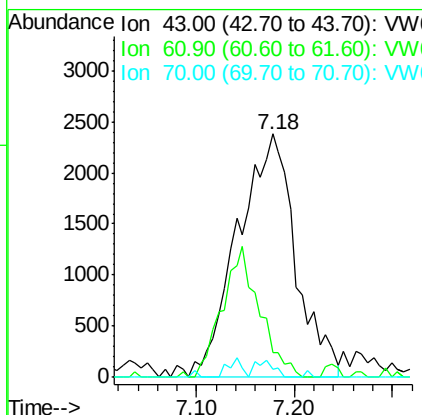
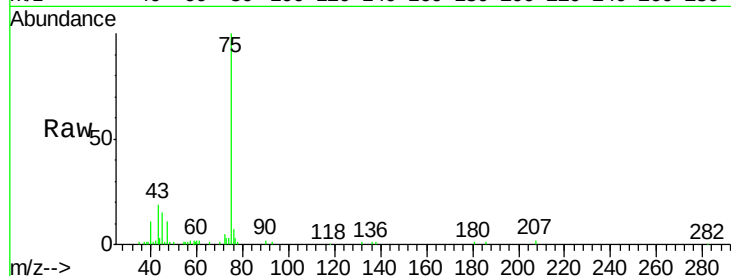




#37
Ethyl Acetate
Concen: 4.191 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

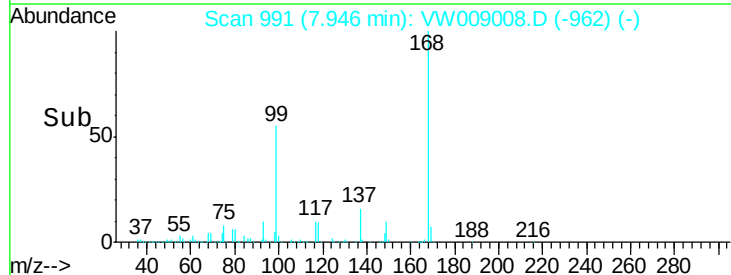
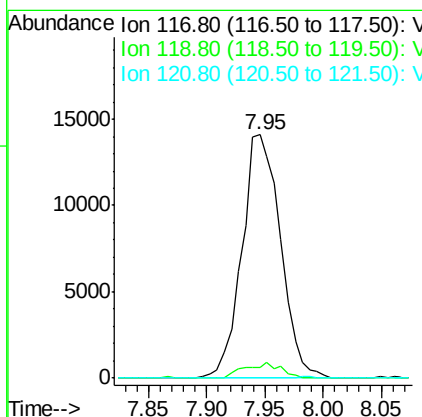
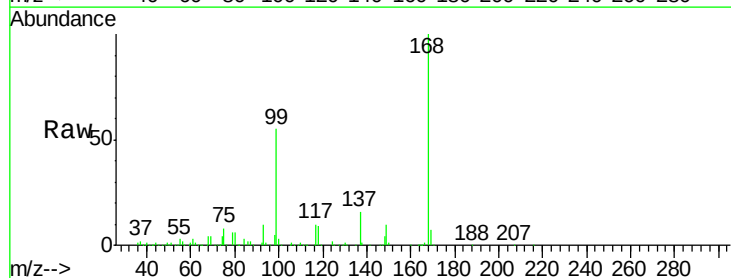
Instrument :
MSVOA_W
ClientSampleId :

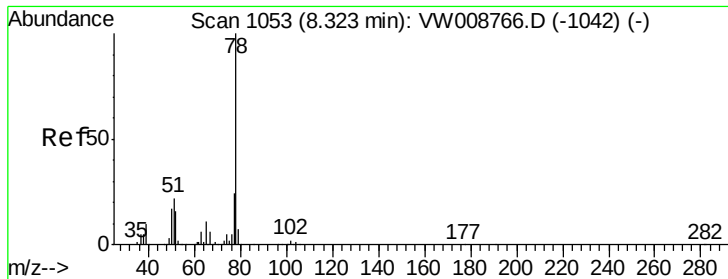
Tot Ion: 43 Resp: 9758
Ion Ratio Lower Upper
43 100
61 0.0 9.8 14.8#
70 2.3 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.149 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

Tgt Ion: 117 Resp: 32473
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.0 24.0 36.0#





#40

Benzene

Concen: 2.436 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

Instrument :

MSVOA_W

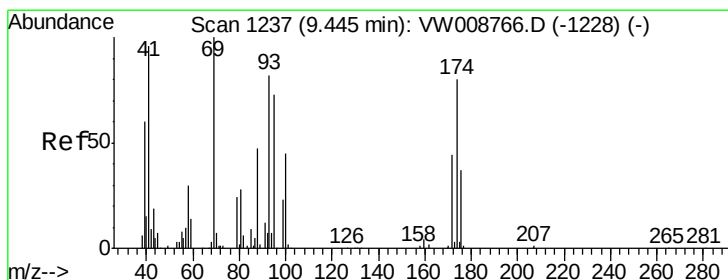
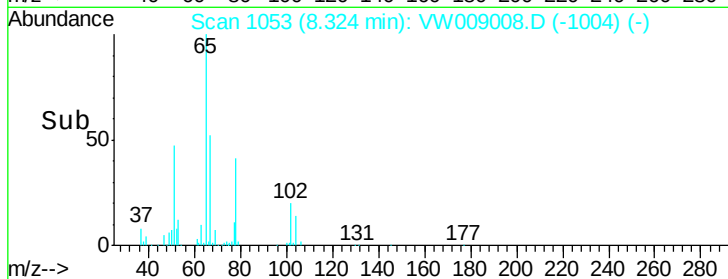
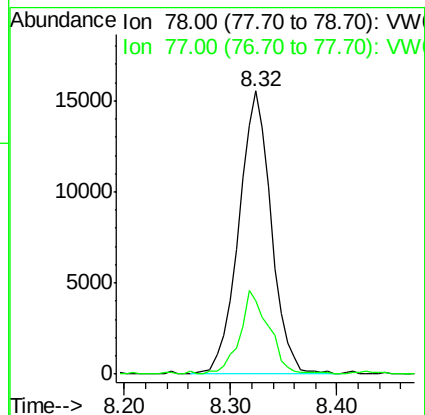
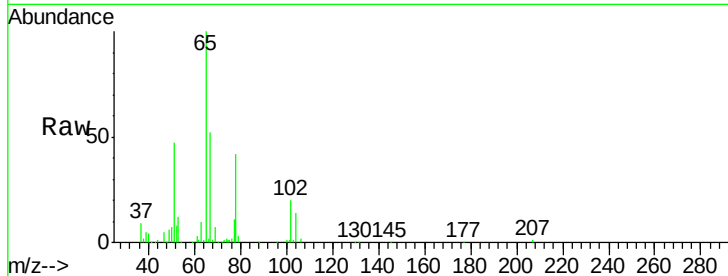
ClientSampleId :

Tot Ion: 78 Resp: 33304

Ion Ratio Lower Upper

78 100

77 26.1 19.3 28.9



#49

1,4-Dioxane

Concen: 2.658 ug/l

RT: 9.54 min Scan# 1253

Delta R.T. 0.10 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

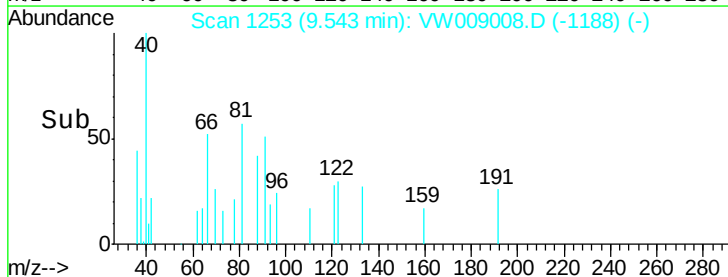
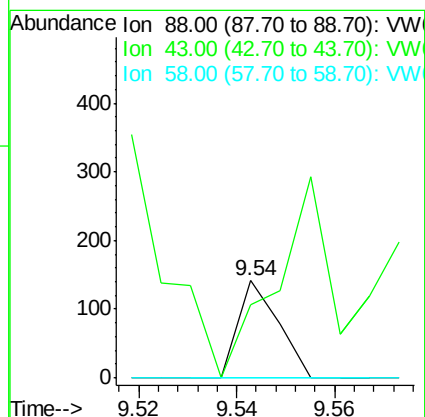
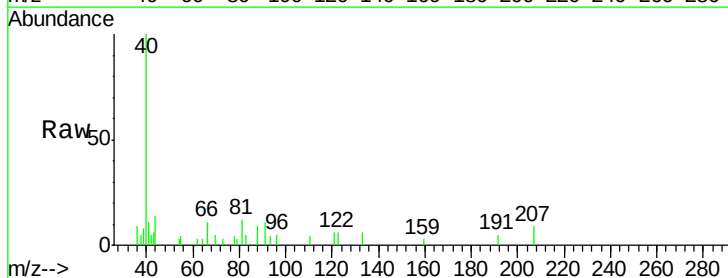
Tgt Ion: 88 Resp: 80

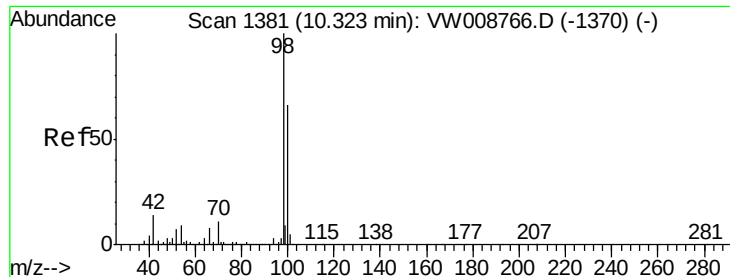
Ion Ratio Lower Upper

88 100

43 323.8 29.0 43.4#

58 0.0 52.0 78.0#





#50

Toluene-d8

Concen: 51.356 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

Instrument :

MSVOA_W

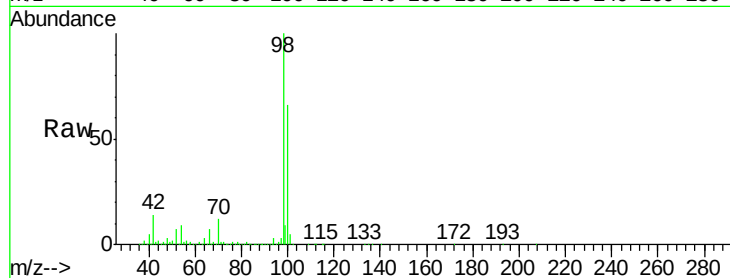
ClientSampled :

Tot Ion: 98 Resp: 612303

Ion Ratio Lower Upper

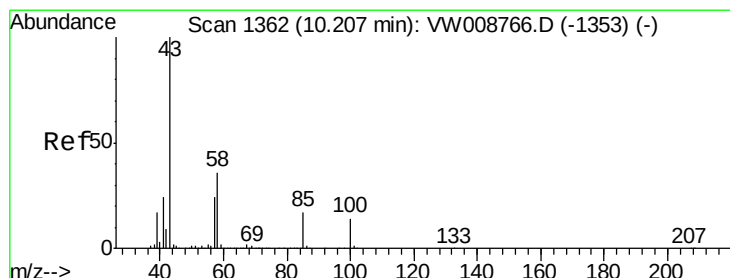
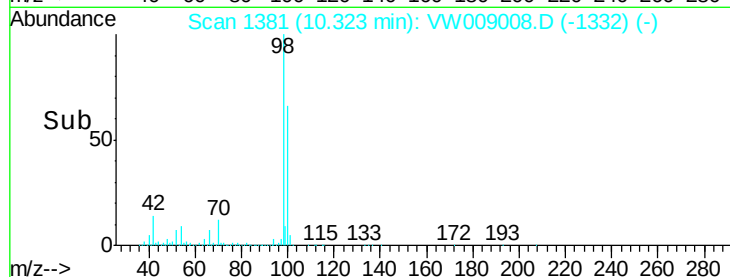
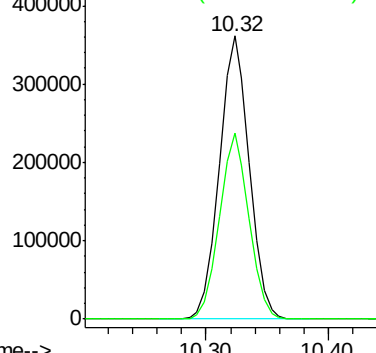
98 100

100 65.1 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 2.358 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW009008.D

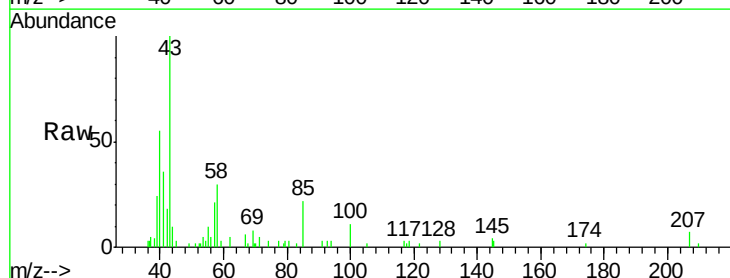
Acq: 05 Mar 2019 20:24

Tgt Ion: 43 Resp: 5564

Ion Ratio Lower Upper

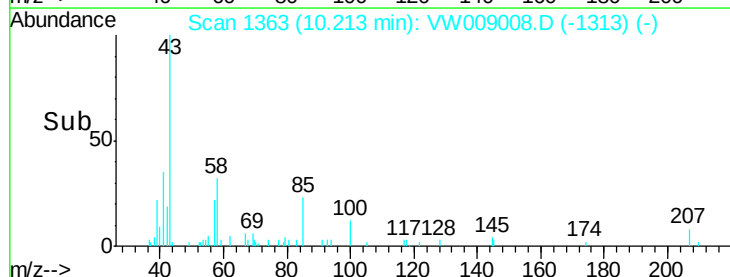
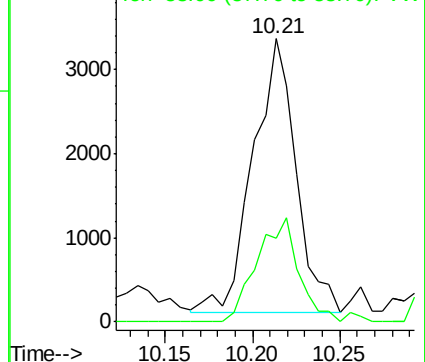
43 100

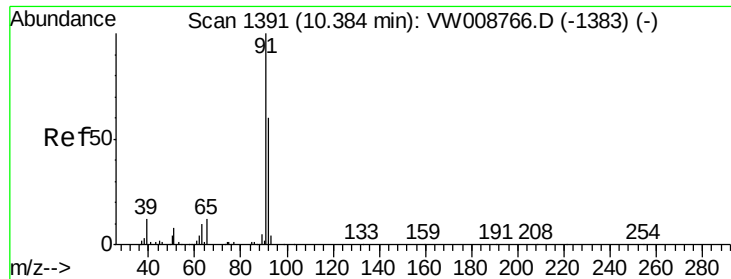
58 37.3 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 11.442 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

Instrument :

MSVOA_W

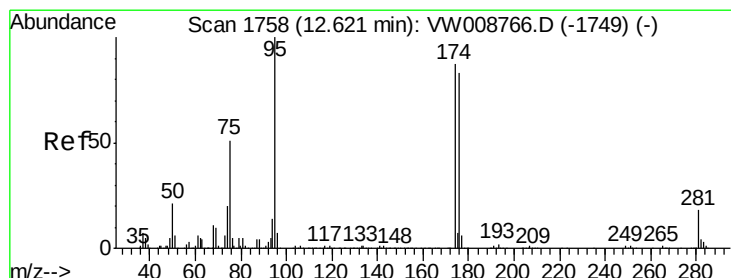
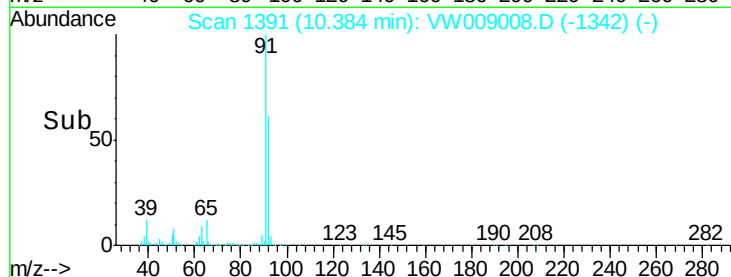
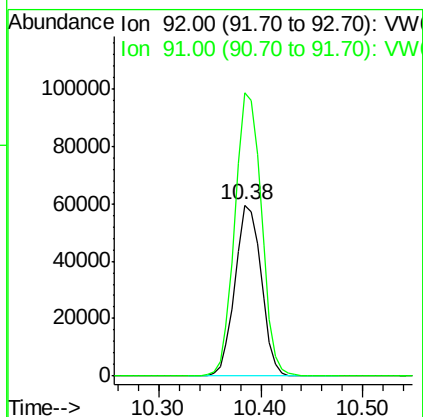
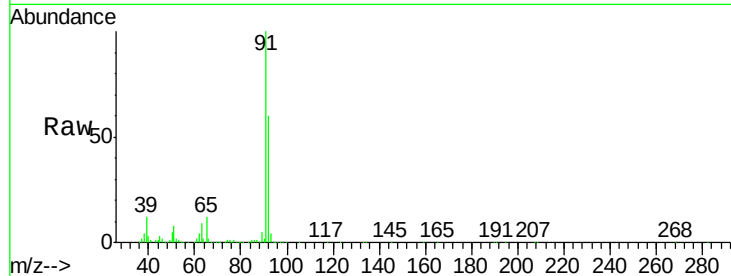
ClientSampleId :

Tot Ion: 92 Resp: 106164

Ion Ratio Lower Upper

92 100

91 166.6 136.9 205.3



#62

4-Bromofluorobenzene

Concen: 43.616 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

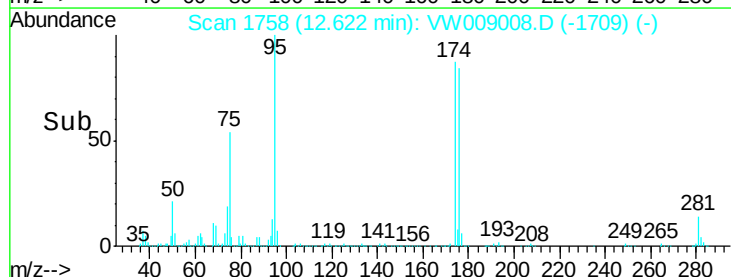
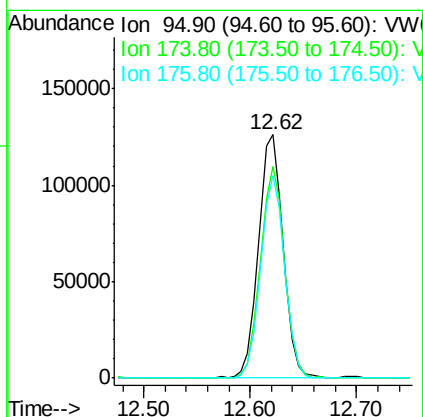
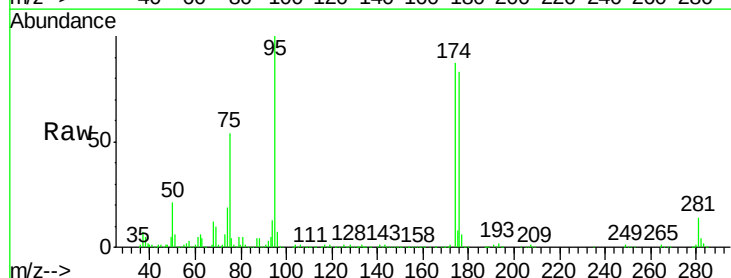
Tgt Ion: 95 Resp: 203609

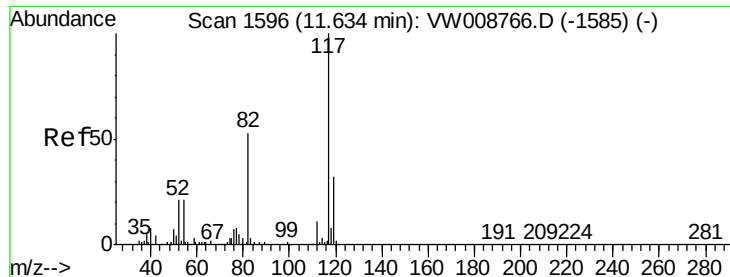
Ion Ratio Lower Upper

95 100

174 85.8 0.0 169.2

176 81.5 0.0 163.6

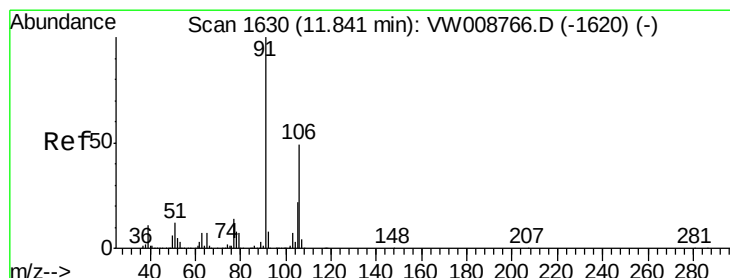
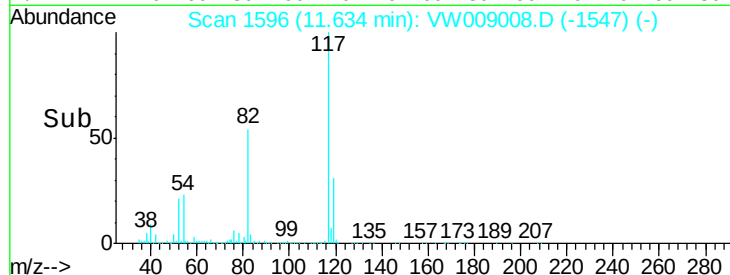
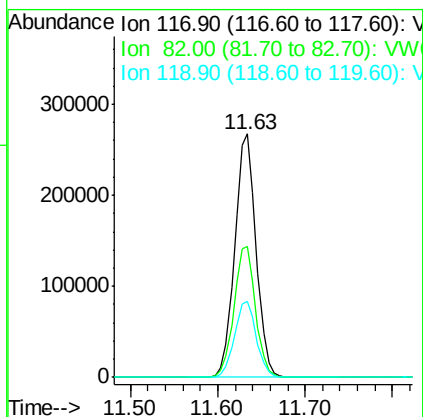
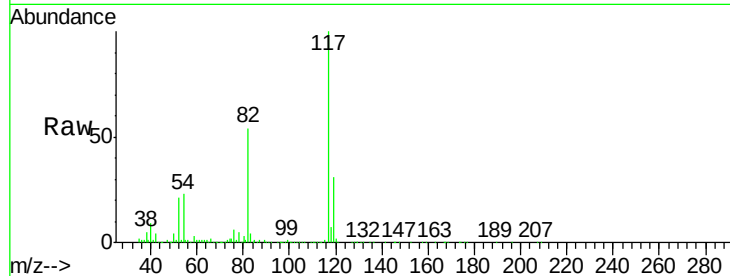




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

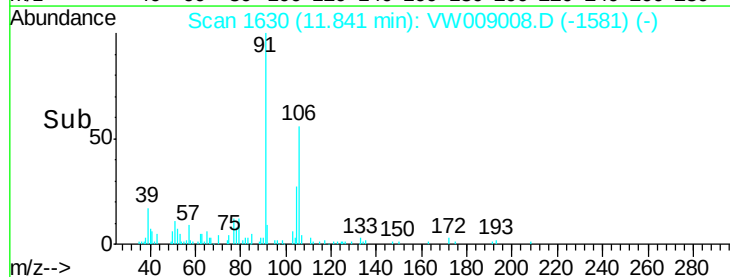
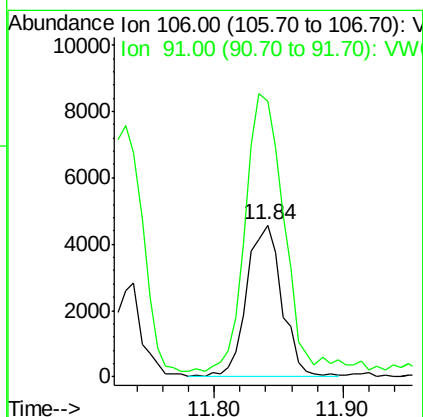
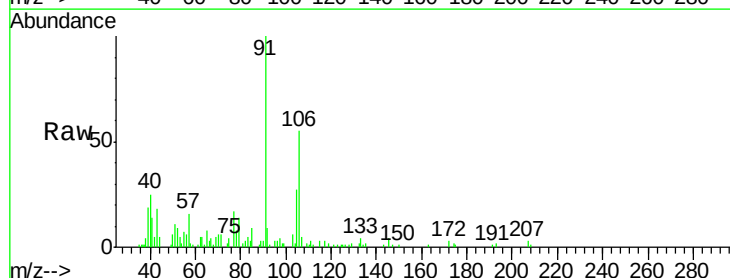
Instrument :
MSVOA_W
ClientSampled :

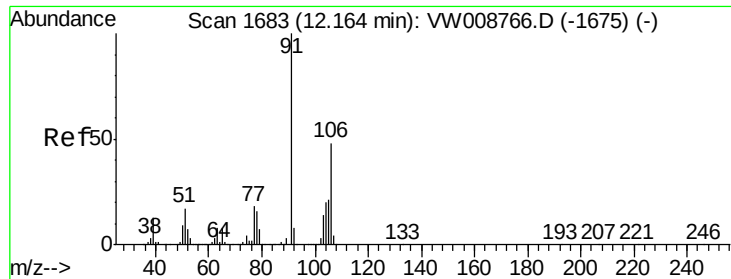
Tot Ion:117 Resp: 453895
Ion Ratio Lower Upper
117 100
82 53.8 42.2 63.4
119 31.1 25.9 38.9



#68
m/p-Xylenes
Concen: 1.269 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

Tgt Ion:106 Resp: 8650
Ion Ratio Lower Upper
106 100
91 203.9 161.5 242.3

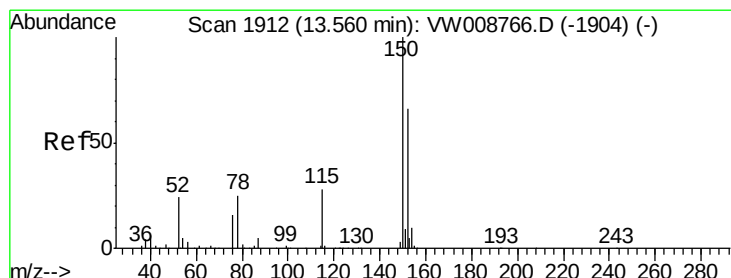
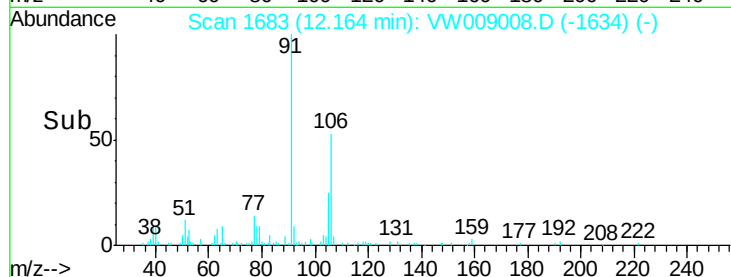
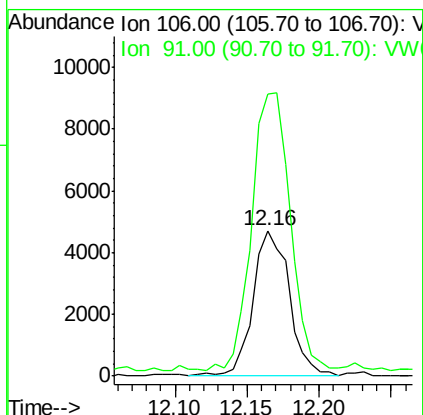
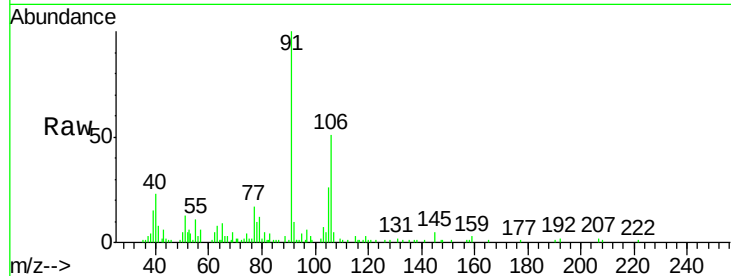




#69
o-Xylene
Concen: 1.277 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

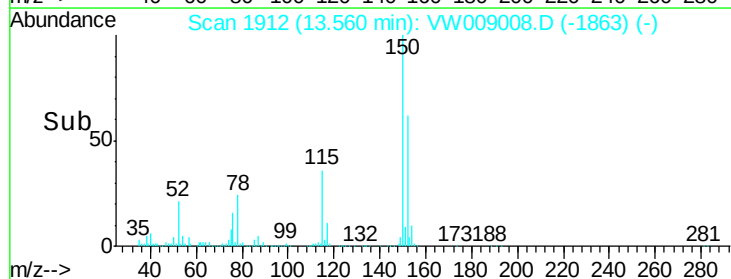
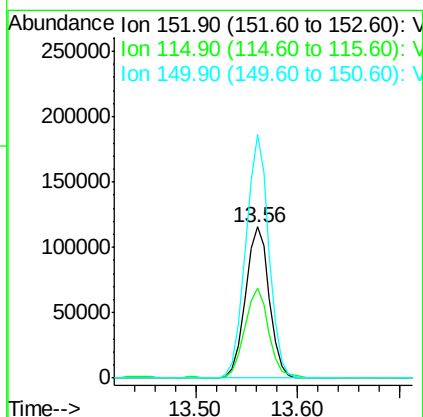
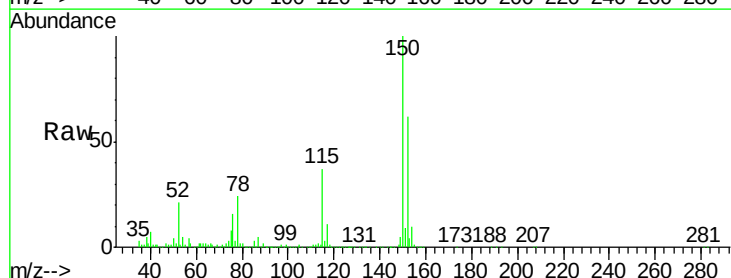
Instrument :
MSVOA_W
ClientSampled :

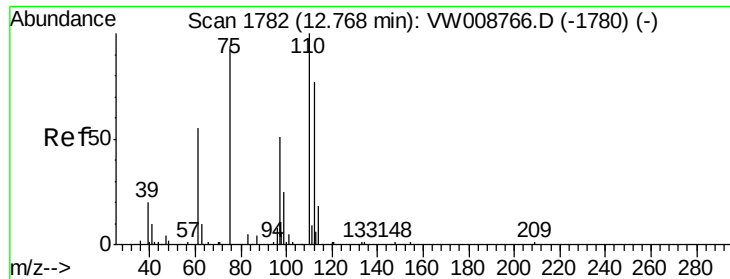
Tot Ion:106 Resp: 8170
Ion Ratio Lower Upper
106 100
91 201.7 106.2 318.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

Tgt Ion:152 Resp: 187662
Ion Ratio Lower Upper
152 100
115 59.3 28.6 85.8
150 156.1 0.0 348.0



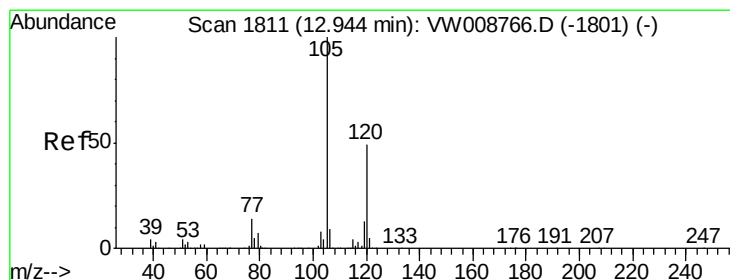
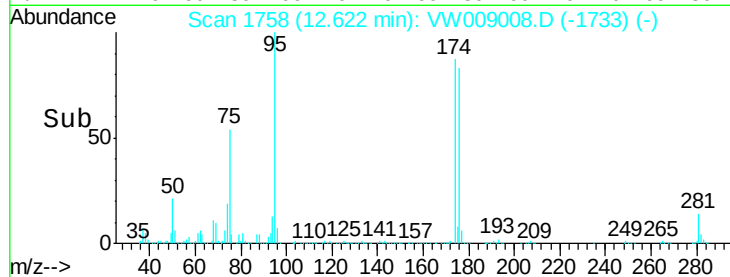
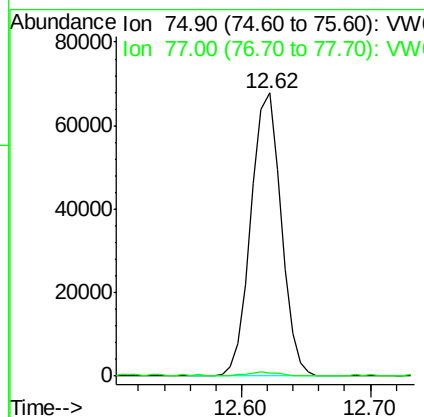
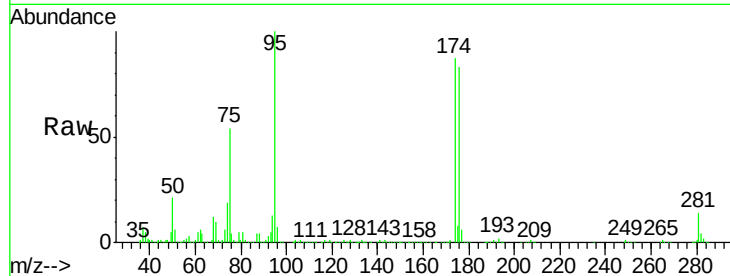


#76

1,2,3-Trichloropropane
 Concen: 71.016 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW009008.D
 Acq: 05 Mar 2019 20:24

Instrument :
 MSVOA_W
 ClientSampleId :

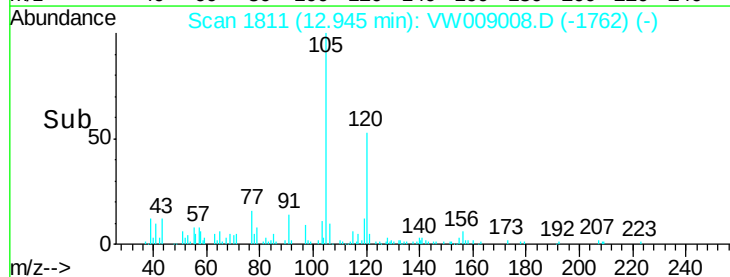
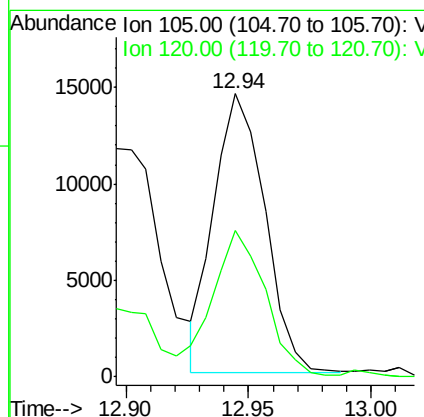
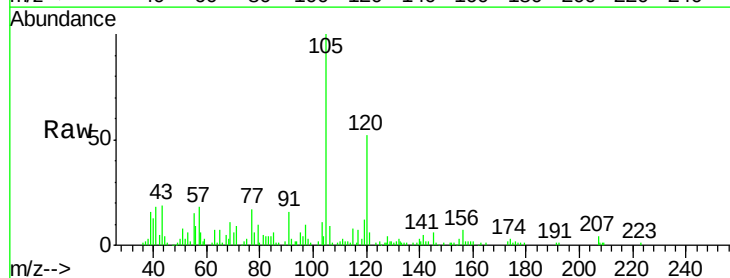
Tot Ion: 75 Resp: 110032
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#

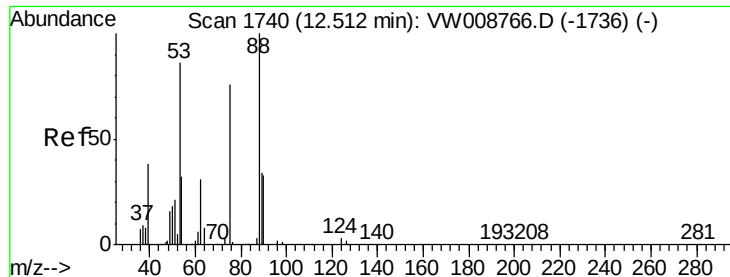


#80

1,3,5-Trimethylbenzene
 Concen: 1.870 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW009008.D
 Acq: 05 Mar 2019 20:24

Tgt Ion: 105 Resp: 20904
 Ion Ratio Lower Upper
 105 100
 120 55.2 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 172.645 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

Instrument :

MSVOA_W

ClientSampleId :

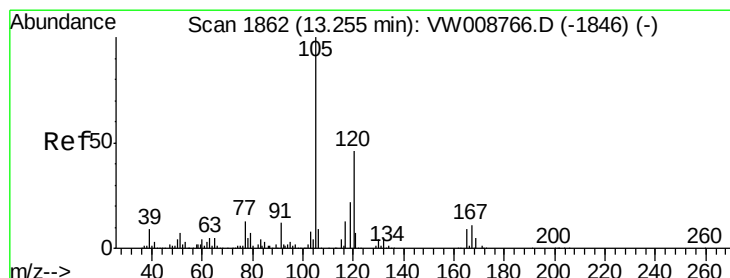
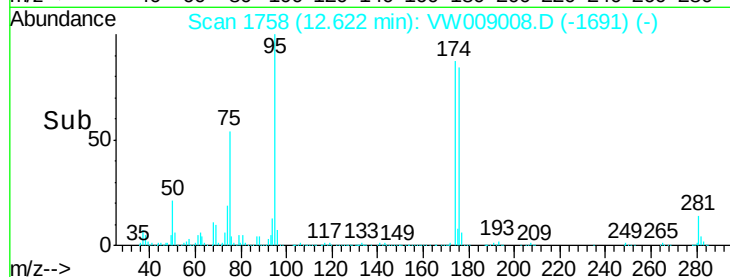
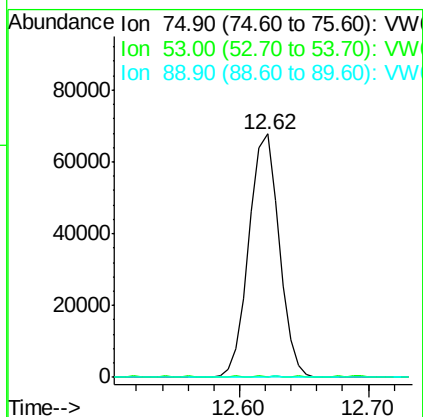
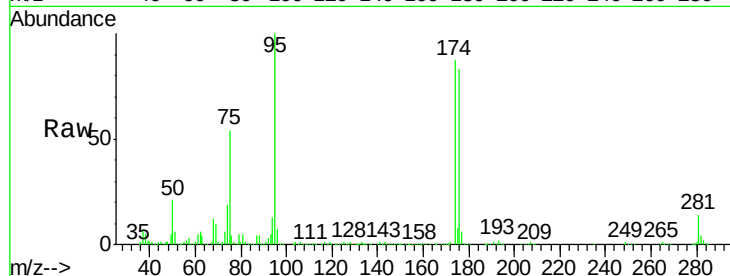
Tot Ion: 75 Resp: 110032

Ion Ratio Lower Upper

75 100

53 0.2 88.2 132.2#

89 0.5 39.5 59.3#



#84

1,2,4-Trimethylbenzene

Concen: 3.303 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW009008.D

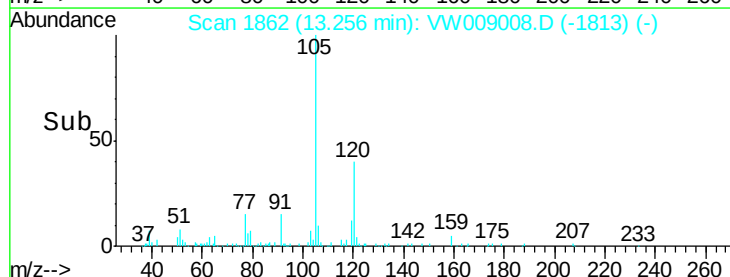
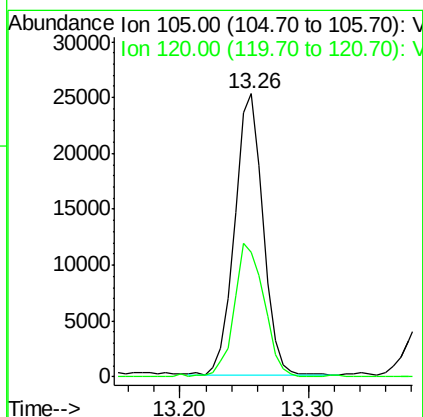
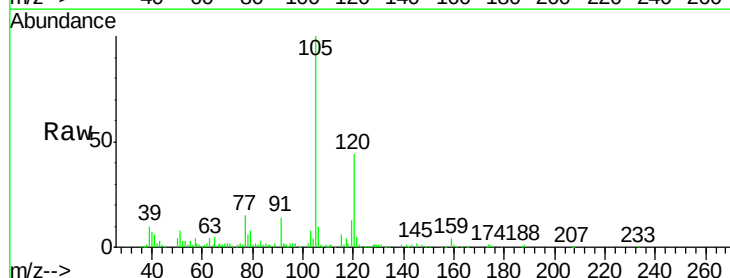
Acq: 05 Mar 2019 20:24

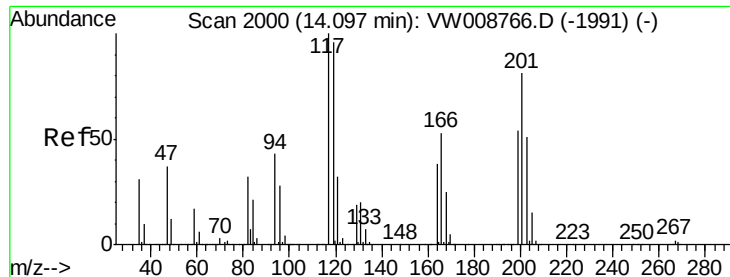
Tgt Ion: 105 Resp: 38225

Ion Ratio Lower Upper

105 100

120 49.9 22.8 68.4





#90

Hexachloroethane

Concen: 3.217 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

Instrument :

MSVOA_W

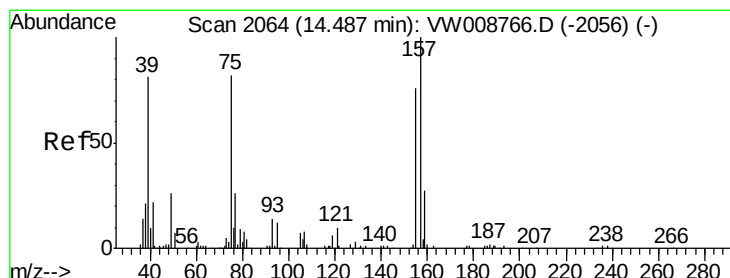
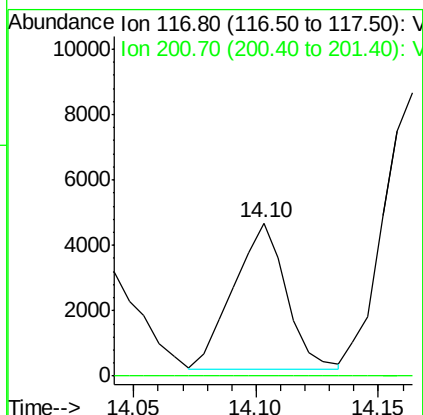
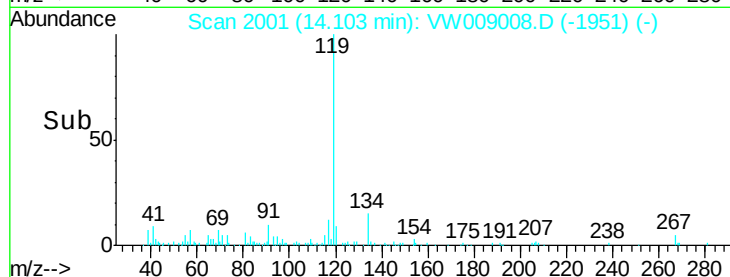
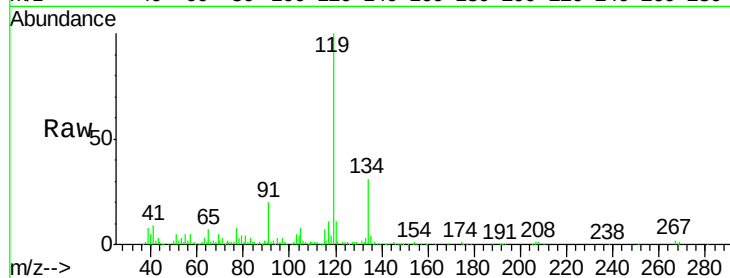
ClientSampled :

Tot Ion:117 Resp: 6710

Ion Ratio Lower Upper

117 100

201 0.0 40.3 120.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.102 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW009008.D

Acq: 05 Mar 2019 20:24

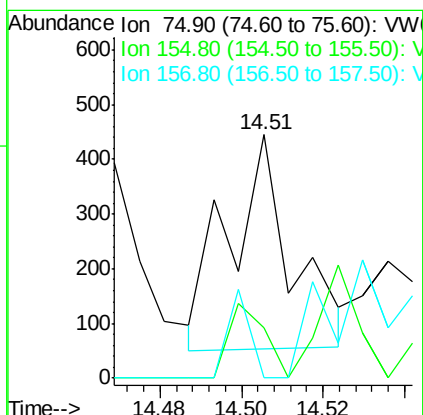
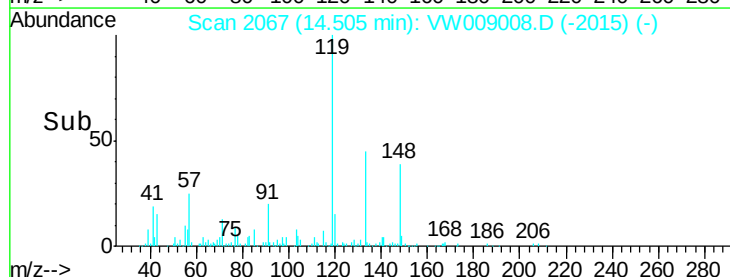
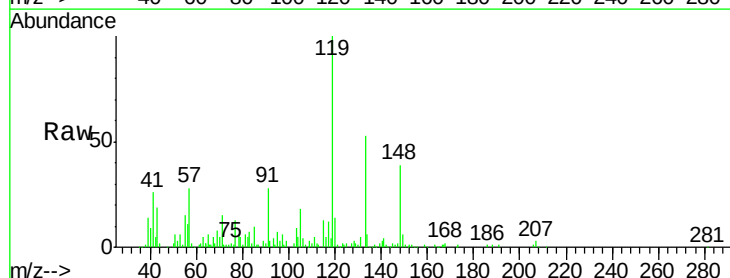
Tgt Ion: 75 Resp: 419

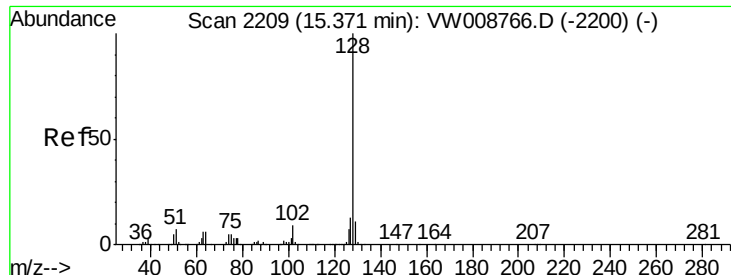
Ion Ratio Lower Upper

75 100

155 20.0 41.8 125.4#

157 14.1 56.6 169.9#

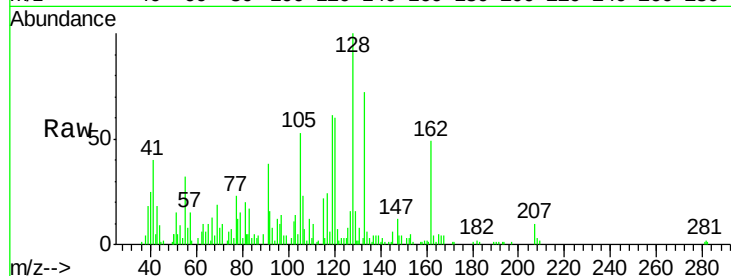




#95
Naphthalene
Concen: 2.262 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW009008.D
Acq: 05 Mar 2019 20:24

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 15599
Ion Ratio Lower Upper
128 100
127 22.7 10.8 16.2#
129 7.0 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

