

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022619\
 Data File : VW008839.D
 Acq On : 26 Feb 2019 19:04
 Operator : SY/VA
 Sample : K1594-29
 Misc : 6.30G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-4(4-5)

Quant Time: Feb 27 06:01:21 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	358065	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	547950	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	486046	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	231219	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	188062	56.00	ug/l	0.00
Spiked Amount			Recovery	=	112.00%	
35) Dibromofluoromethane	7.88	113	165462	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
50) Toluene-d8	10.32	98	650692	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	12.62	95	221977	44.64	ug/l	0.00
Spiked Amount			Recovery	=	89.28%	

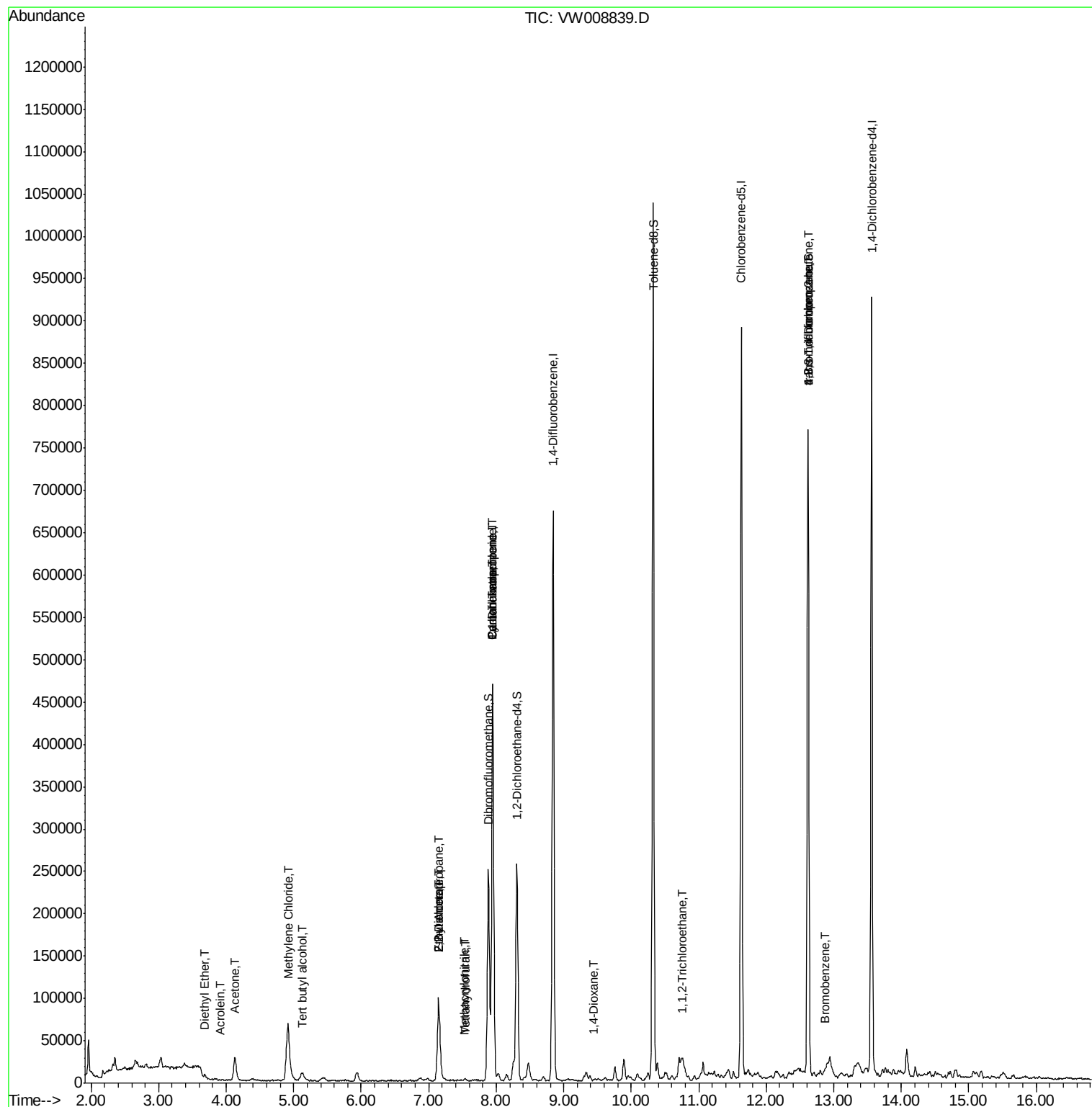
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	2018	1.090	ug/l	86
11) Tert butyl alcohol	5.13	59	9724	32.524	ug/l #	72
13) Acrolein	3.92	56	78	20.008	ug/l #	46
16) Acetone	4.13	43	49239	63.254	ug/l	93
20) Methylene Chloride	4.92	84	48596	8.424	ug/l	97
25) 2-Butanone	7.15	43	9260	8.509	ug/l #	69
26) 2,2-Dichloropropane	7.14	77	6763	1.191	ug/l #	54
29) Tetrahydrofuran	7.53	42	875	1.262	ug/l #	22
31) Cyclohexane	7.94	56	9795	1.547	ug/l #	59
36) 1,1-Dichloropropene	7.95	75	26179	4.908	ug/l #	50
37) Ethyl Acetate	7.15	43	9260	3.733	ug/l #	27
38) Carbon Tetrachloride	7.95	117	33743	5.999	ug/l #	15
41) Methacrylonitrile	7.52	41	1862	1.277	ug/l #	28
49) 1,4-Dioxane	9.45	88	37	1.154	ug/l #	1
55) 1,1,2-Trichloroethane	10.75	97	2783	1.025	ug/l #	20
76) 1,2,3-Trichloropropane	12.62	75	120381	63.059	ug/l #	100
77) Bromobenzene	12.87	156	4091	1.092	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	120381	153.301	ug/l #	6

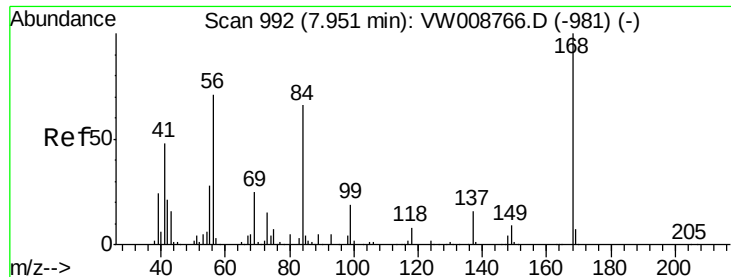
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 991

Delta R.T. -0.01 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

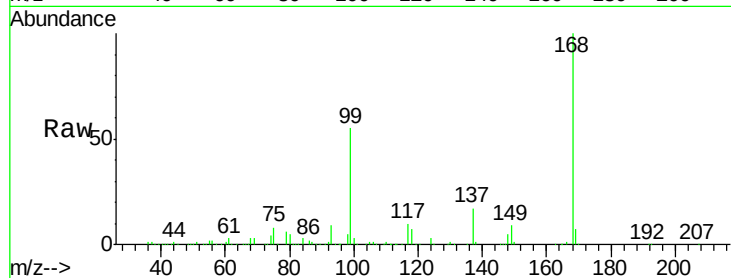
B-4(4-5)

Tot Ion:168 Resp: 358065

Ion Ratio Lower Upper

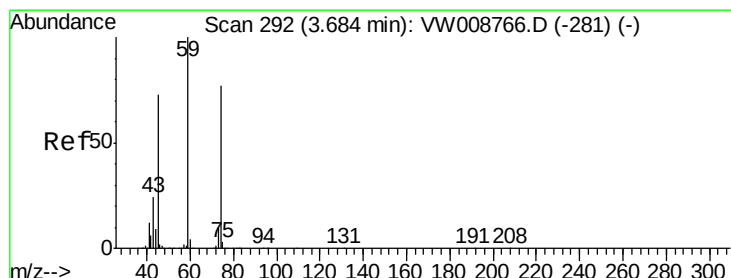
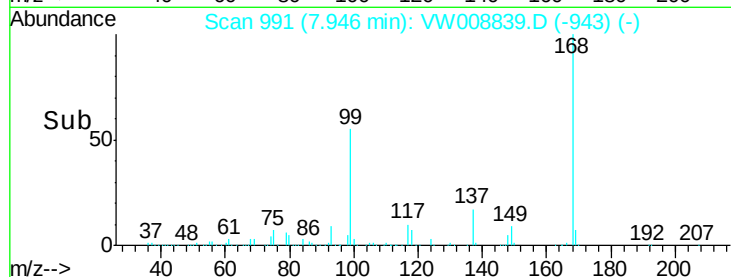
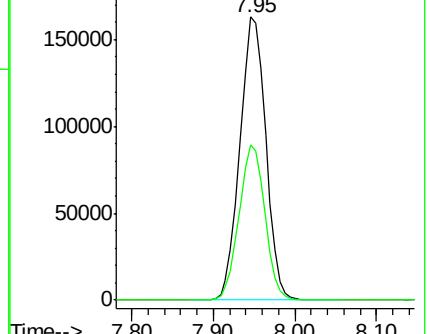
168 100

99 54.8 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.090 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW008839.D

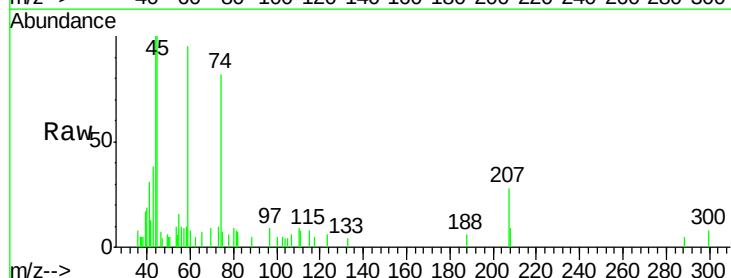
Acq: 26 Feb 2019 19:04

Tgt Ion: 74 Resp: 2018

Ion Ratio Lower Upper

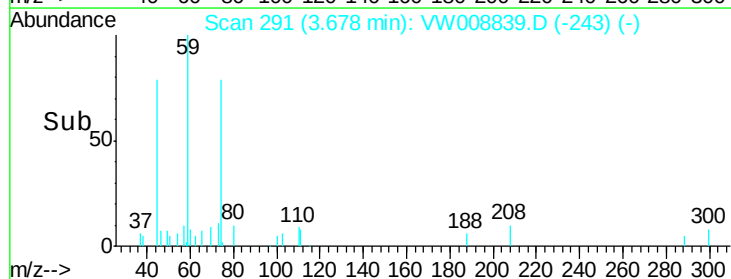
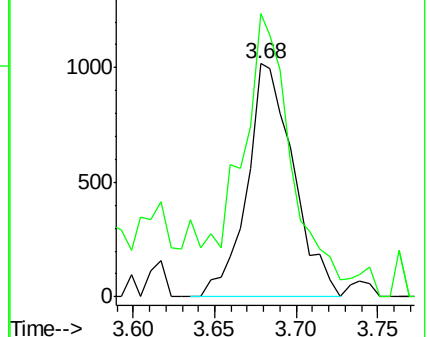
74 100

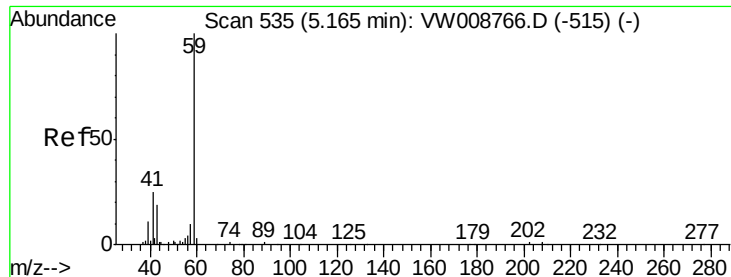
45 114.1 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



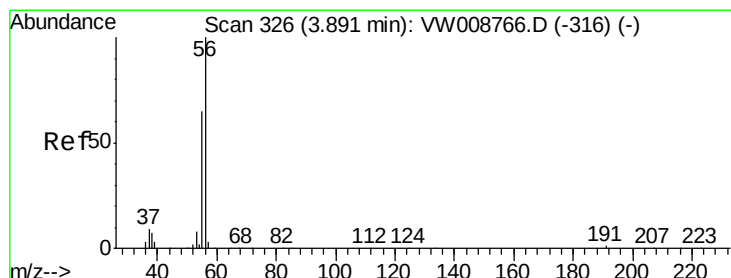
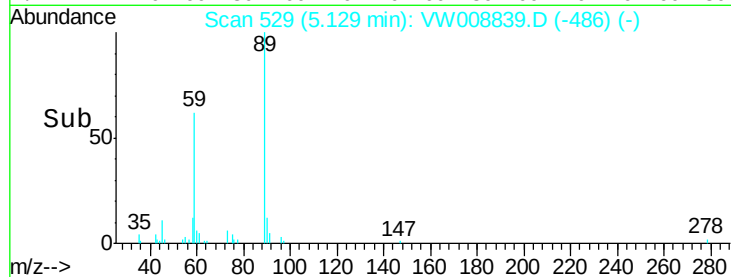
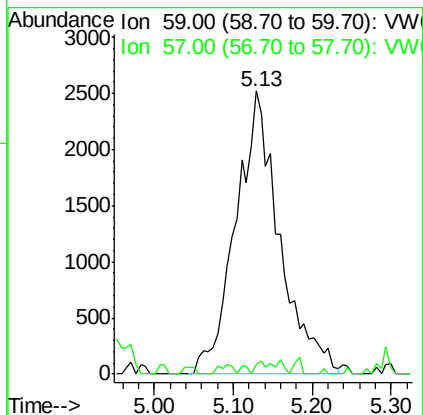
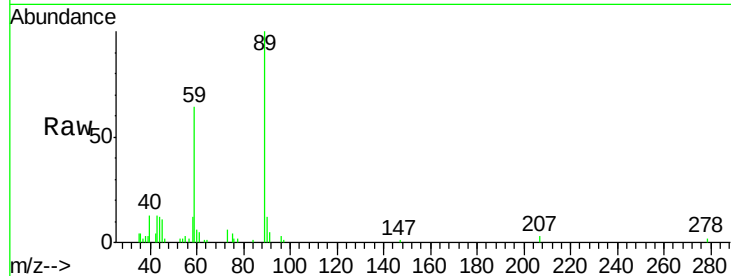


#11

Tert butyl alcohol
Concen: 32.524 ug/l
RT: 5.13 min Scan# 529
Delta R.T. -0.04 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

Instrument :
MSVOA_W
ClientSampled :
B-4(4-5)

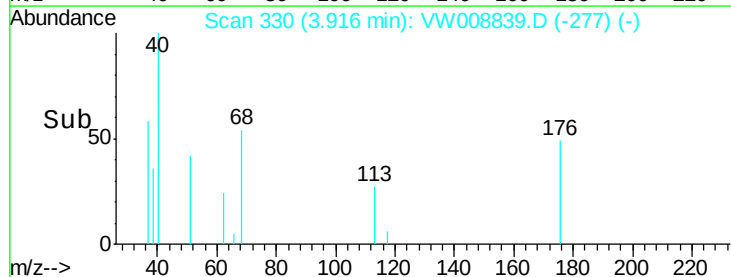
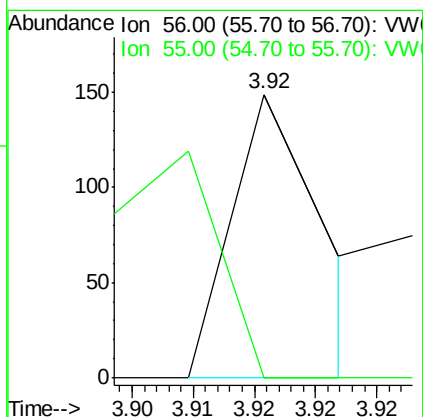
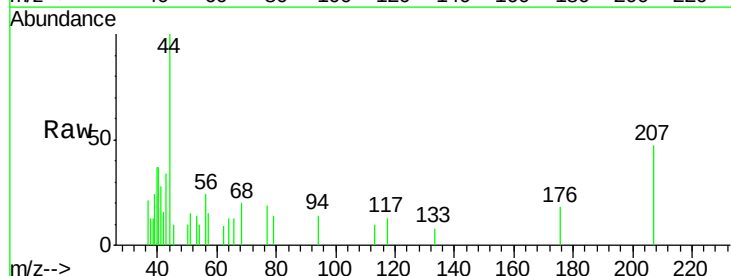
Tot Ion: 59 Resp: 9724
Ion Ratio Lower Upper
59 100
57 1.0 9.3 13.9#

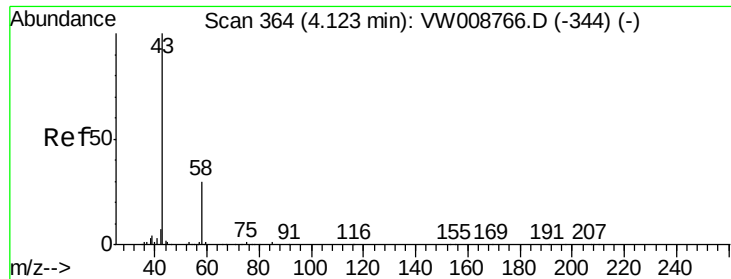


#13

Acrolein
Concen: 20.008 ug/l
RT: 3.92 min Scan# 330
Delta R.T. 0.02 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

Tgt Ion: 56 Resp: 78
Ion Ratio Lower Upper
56 100
55 115.4 56.9 85.3#

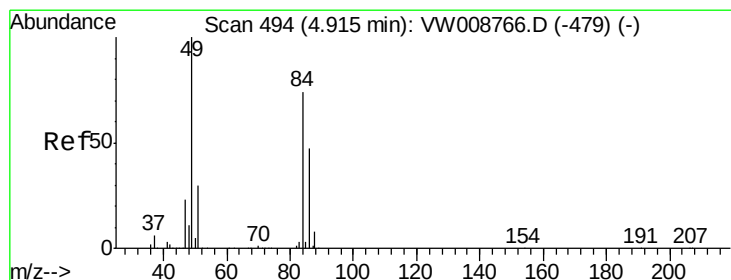
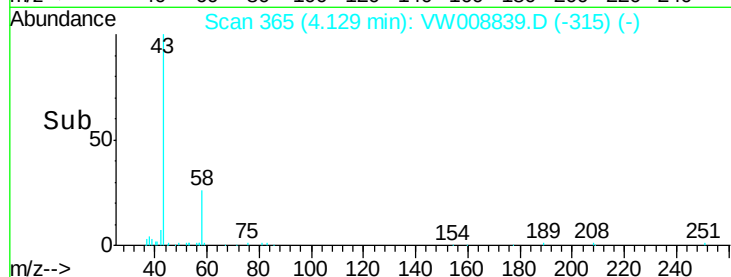
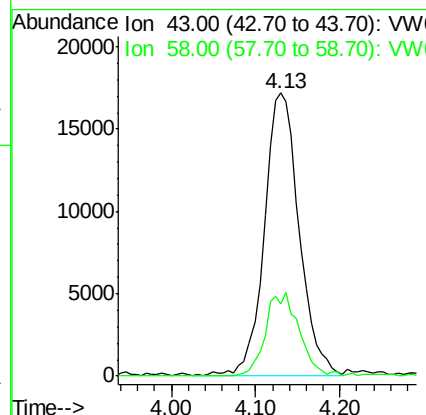
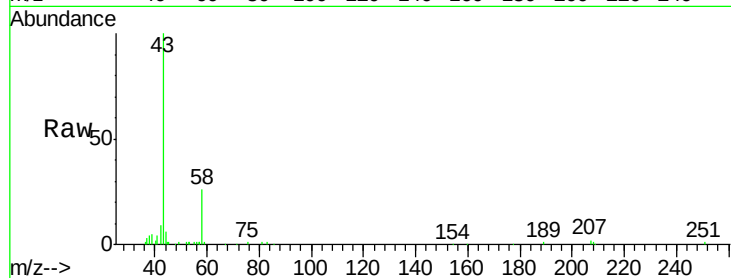




#16
Acetone
Concen: 63.254 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

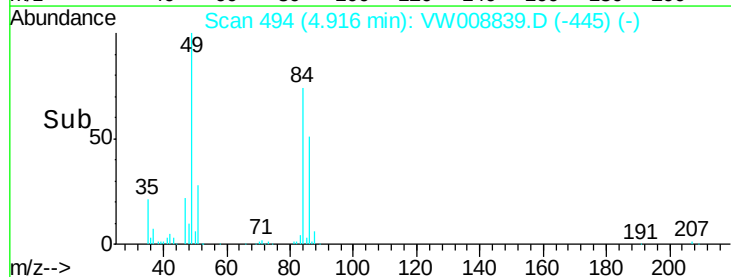
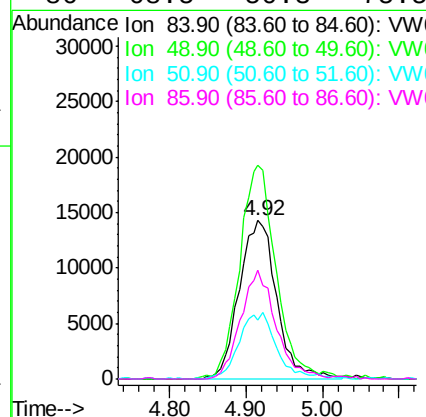
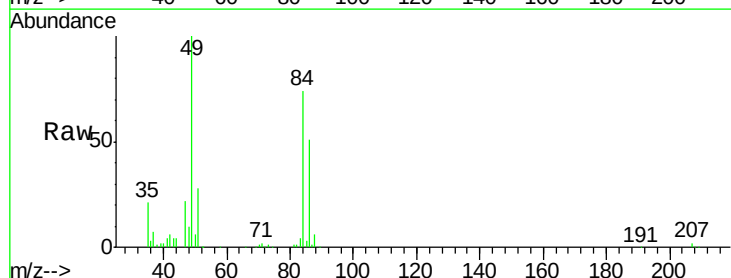
Instrument :
MSVOA_W
ClientSampleId :
B-4(4-5)

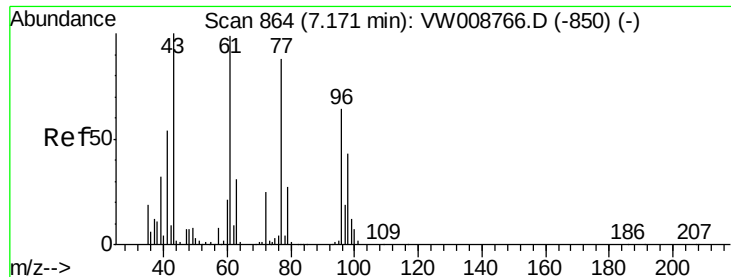
Tot Ion: 43 Resp: 49239
Ion Ratio Lower Upper
43 100
58 25.7 23.8 35.6



#20
Methylene Chloride
Concen: 8.424 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

Tgt Ion: 84 Resp: 48596
Ion Ratio Lower Upper
84 100
49 134.8 108.2 162.2
51 37.1 32.7 49.1
86 68.5 50.3 75.5





#25

2-Butanone

Concen: 8.509 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampled :

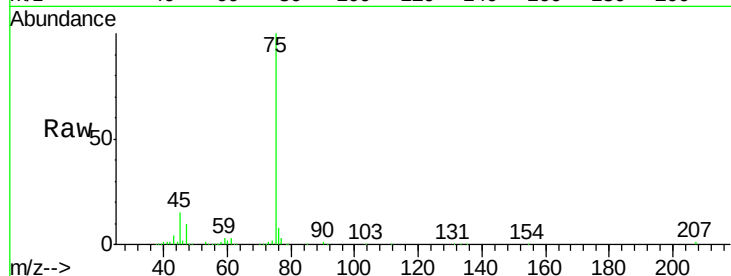
B-4(4-5)

Tot Ion: 43 Resp: 9260

Ion Ratio Lower Upper

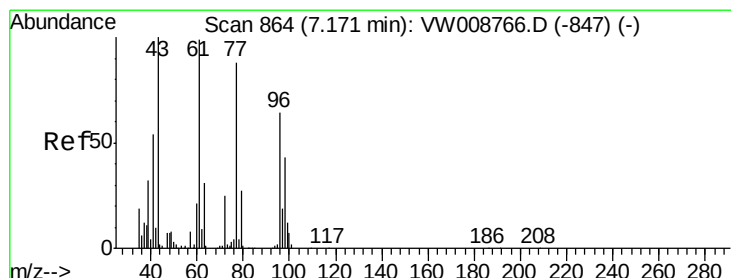
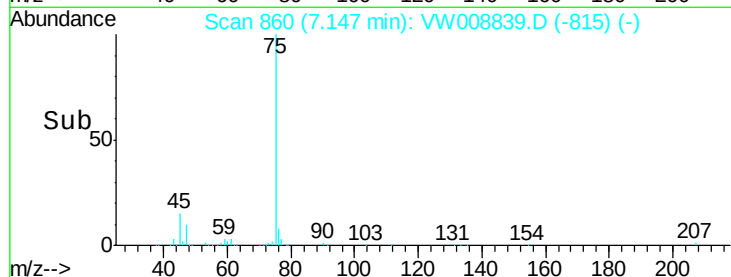
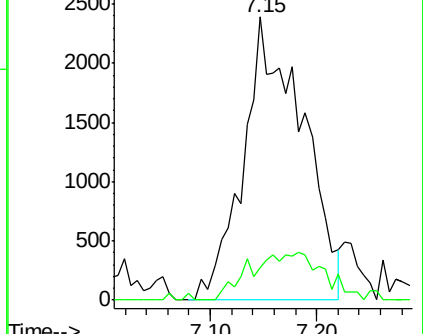
43 100

72 9.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.191 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW008839.D

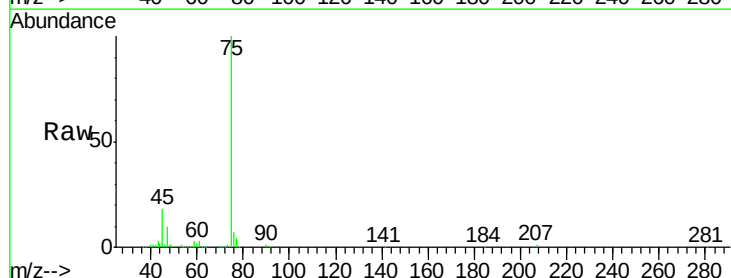
Acq: 26 Feb 2019 19:04

Tgt Ion: 77 Resp: 6763

Ion Ratio Lower Upper

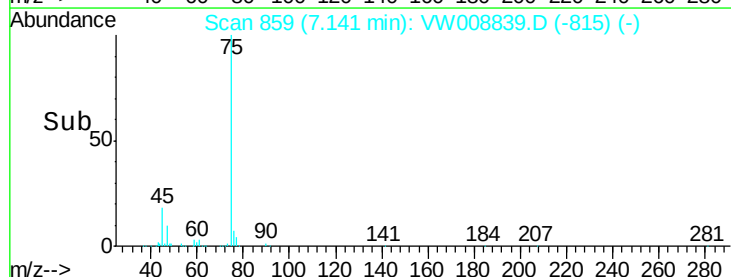
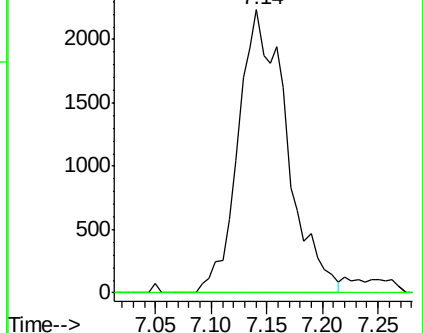
77 100

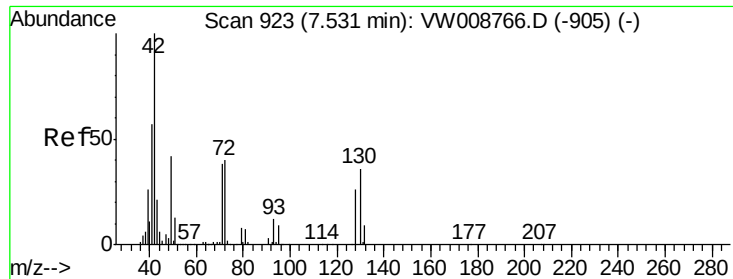
97 0.0 11.0 33.0#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

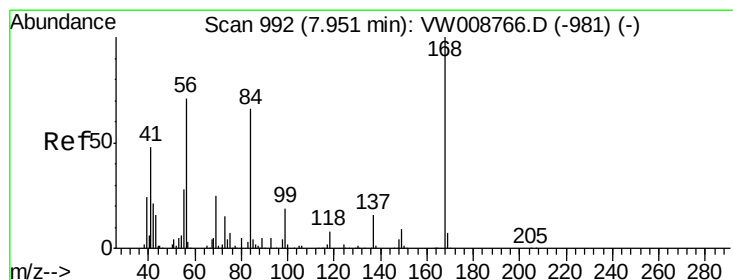
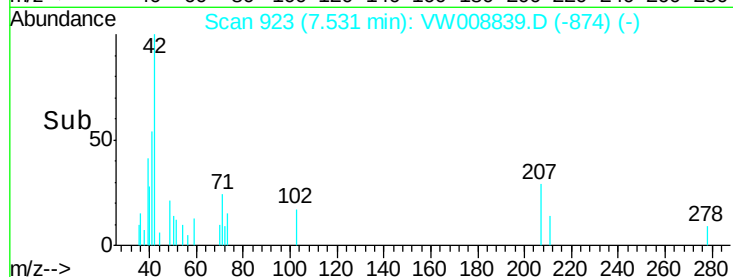
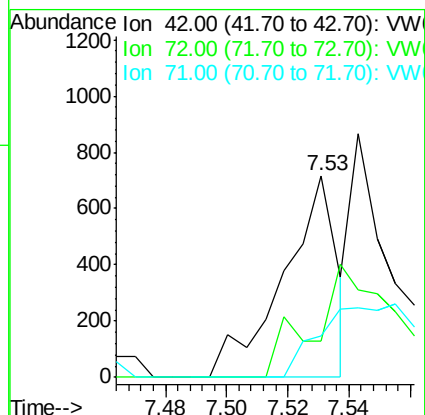
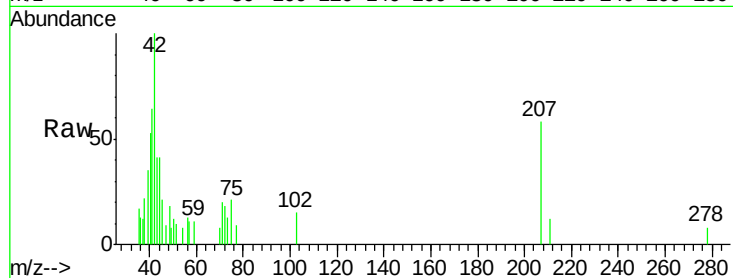




#29
Tetrahydrofuran
Concen: 1.262 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

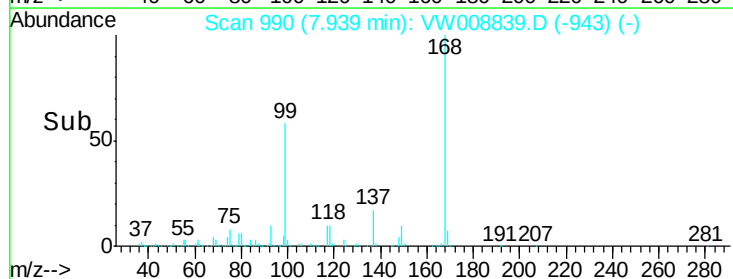
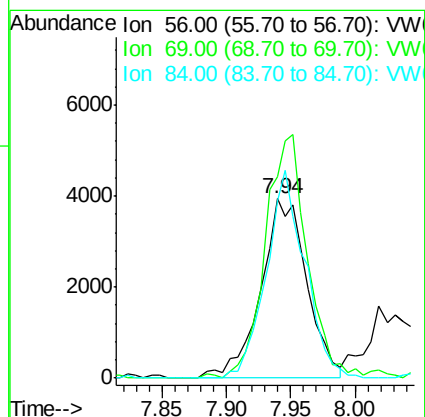
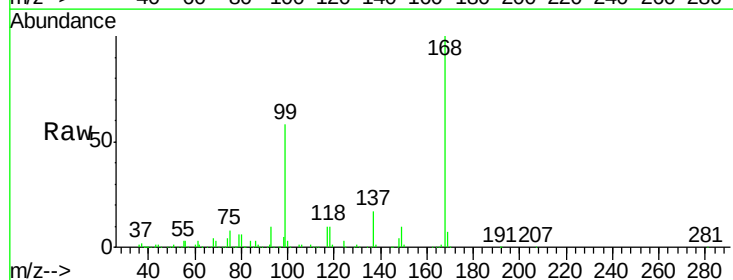
Instrument :
MSVOA_W
ClientSampled :
B-4(4-5)

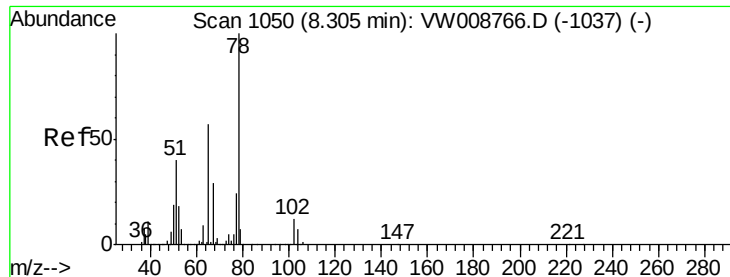
Tot Ion: 42 Resp: 875
Ion Ratio Lower Upper
42 100
72 98.4 32.7 49.1#
71 0.0 31.3 46.9#



#31
Cyclohexane
Concen: 1.547 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

Tgt Ion: 56 Resp: 9795
Ion Ratio Lower Upper
56 100
69 112.5 28.2 42.4#
84 98.5 74.1 111.1

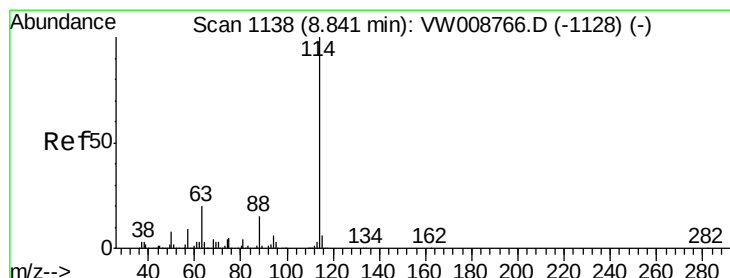
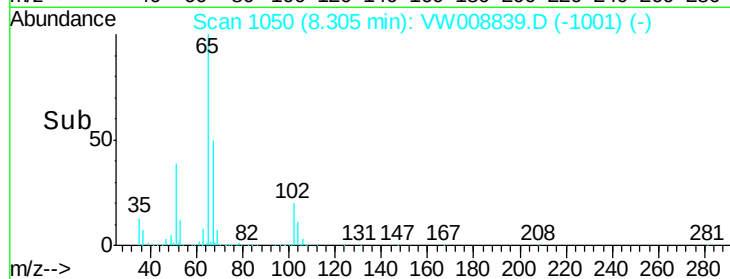
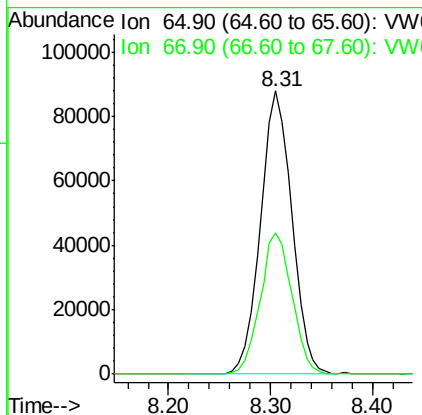
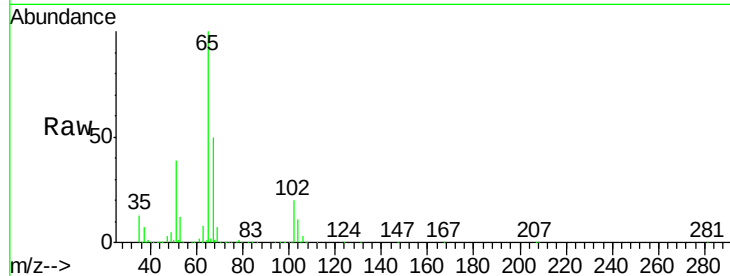




#33
 1,2-Dichloroethane-d4
 Concen: 55.999 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008839.D
 Acq: 26 Feb 2019 19:04

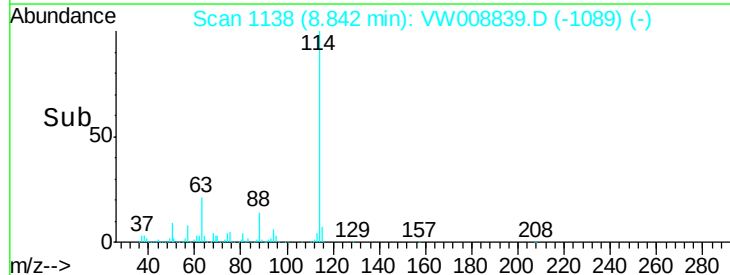
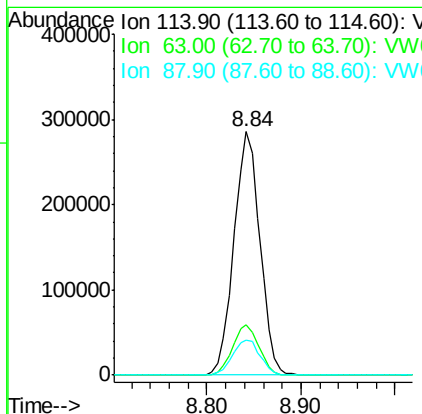
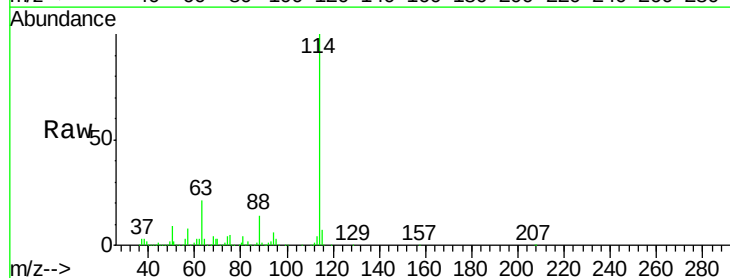
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 B-4(4-5)

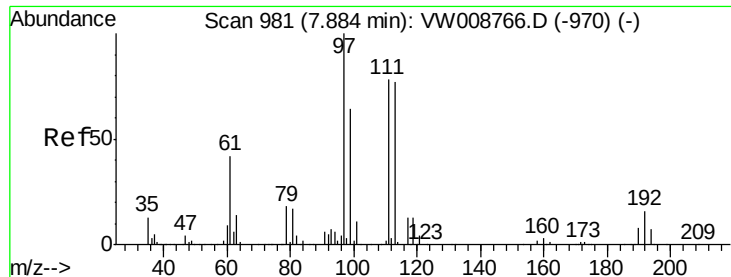
Tot Ion: 65 Resp: 188062
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008839.D
 Acq: 26 Feb 2019 19:04

Tgt Ion: 114 Resp: 547950
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.8
 88 14.2 0.0 30.4

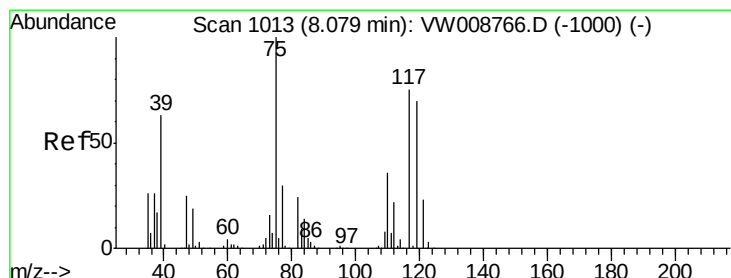
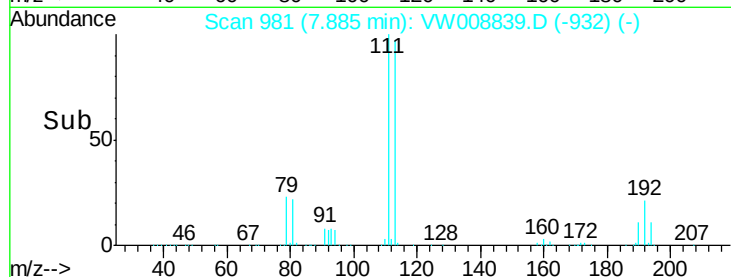
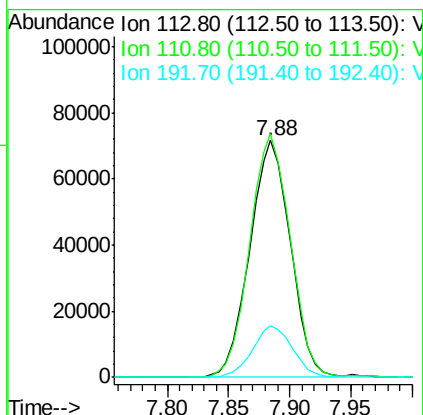
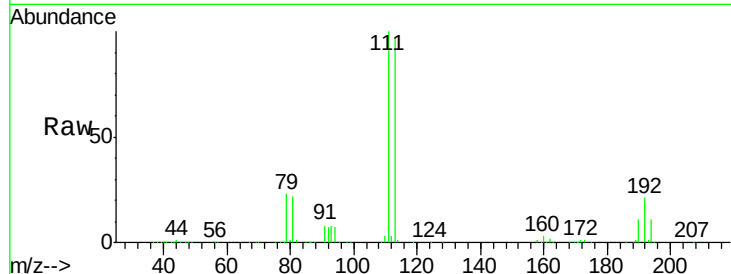




#35
 Dibromofluoromethane
 Concen: 50.293 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008839.D
 Acq: 26 Feb 2019 19:04

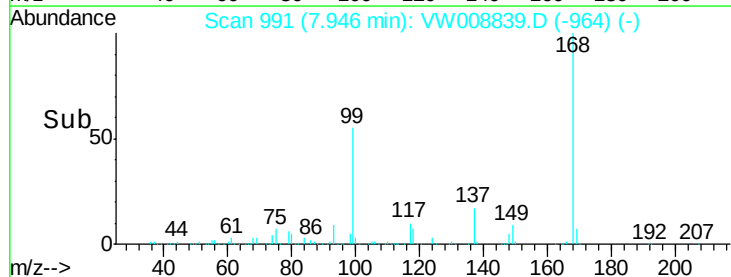
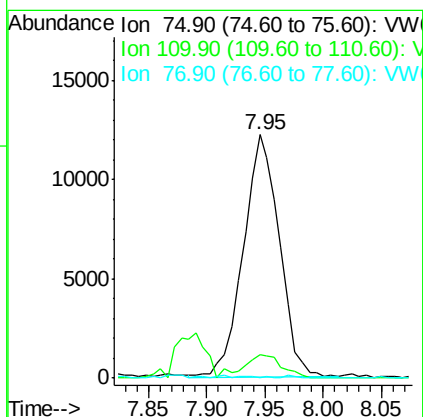
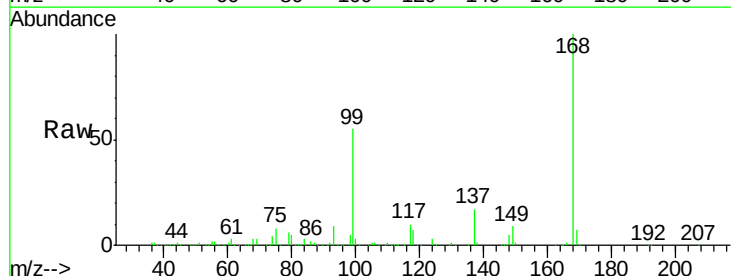
Instrument :
 MSVOA_W
 ClientSampleId :
 B-4(4-5)

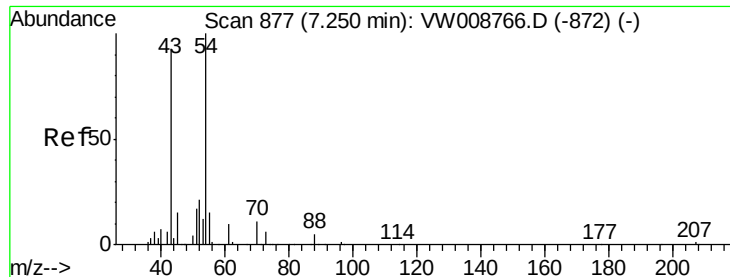
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.9	122.9
192	21.6	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.908 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008839.D
 Acq: 26 Feb 2019 19:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	17.5	52.6#
77	0.0	24.5	36.7#

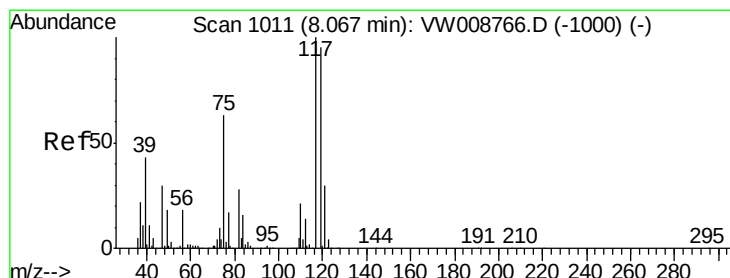
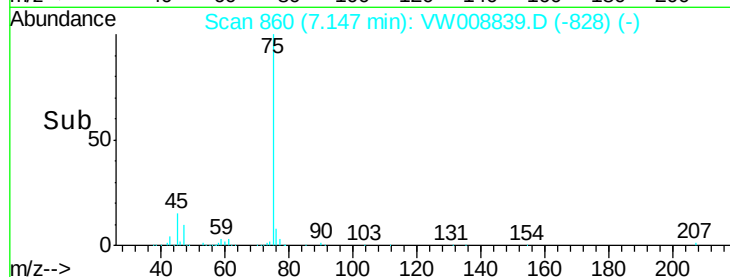
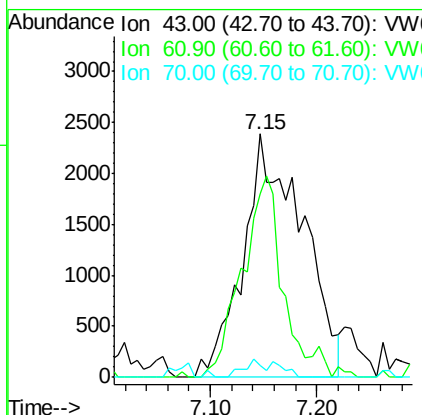
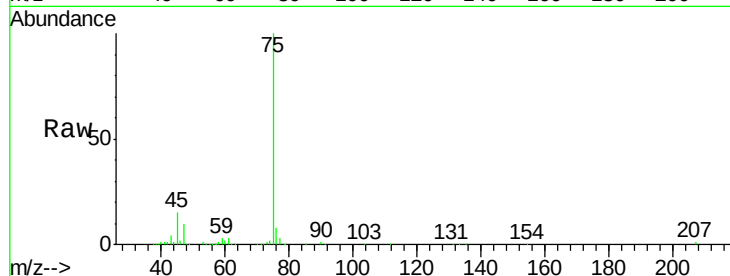




#37
Ethyl Acetate
Concen: 3.733 ug/l
RT: 7.15 min Scan# 860
Delta R.T. -0.10 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

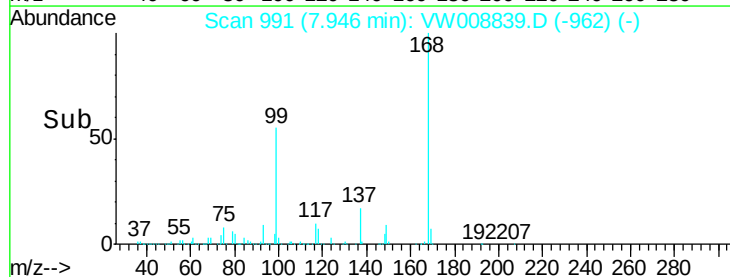
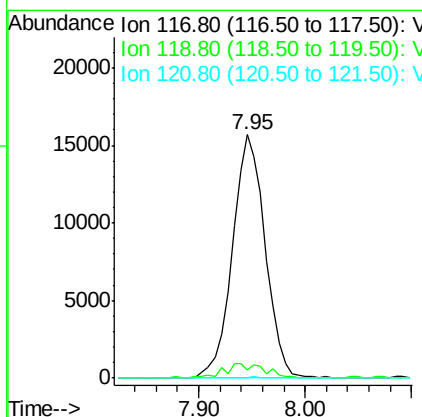
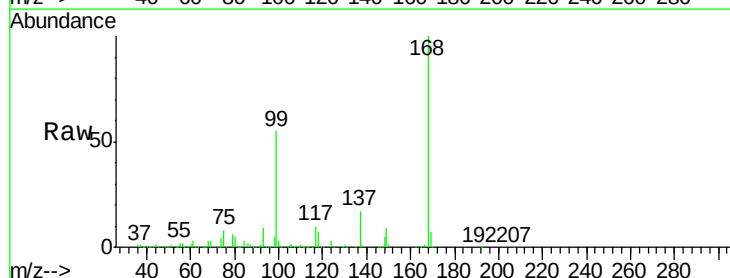
Instrument :
MSVOA_W
ClientSampleId :
B-4(4-5)

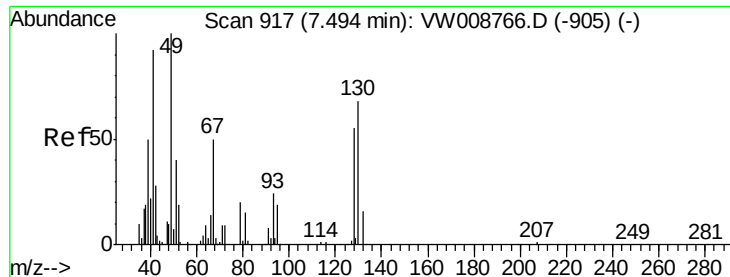
Tot Ion: 43 Resp: 9260
Ion Ratio Lower Upper
43 100
61 57.4 9.8 14.8#
70 1.7 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 5.999 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

Tgt Ion: 117 Resp: 33743
Ion Ratio Lower Upper
117 100
119 3.1 76.1 114.1#
121 0.0 24.0 36.0#

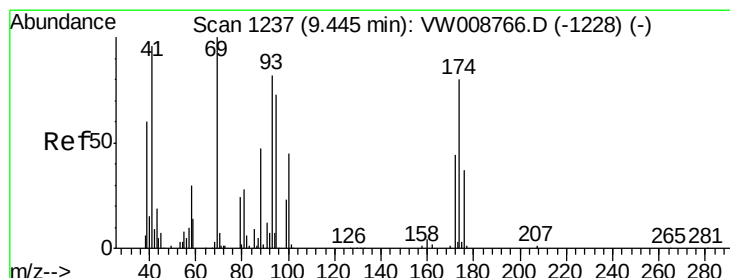
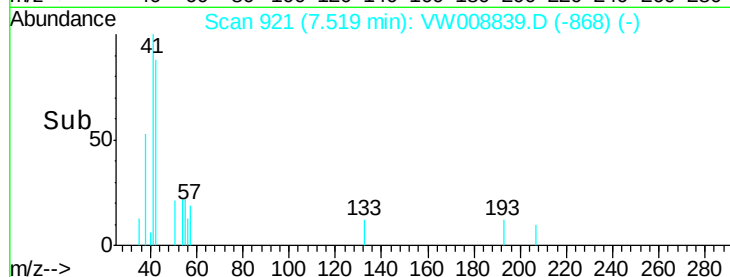
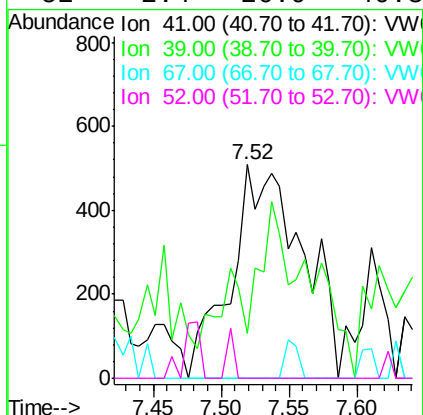
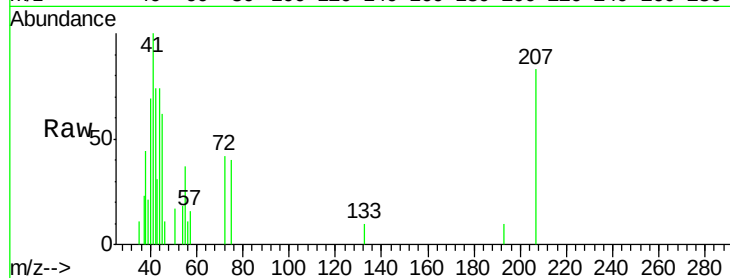




#41
Methacrylonitrile
Concen: 1.277 ug/l
RT: 7.52 min Scan# 921
Delta R.T. 0.02 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

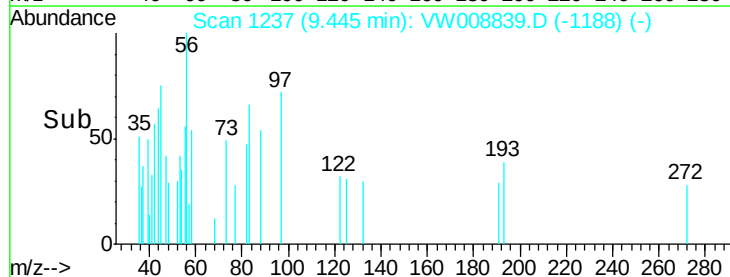
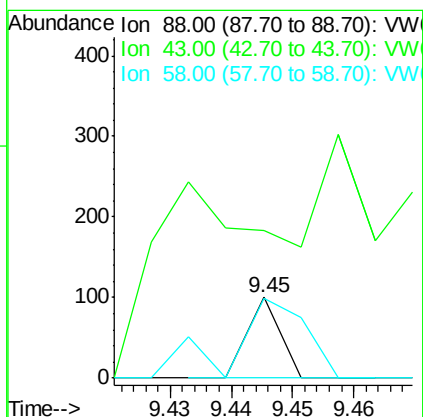
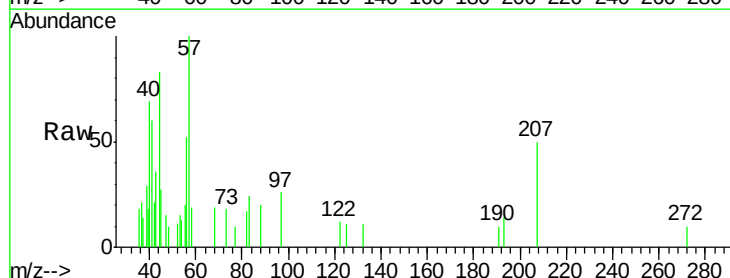
Instrument :
MSVOA_W
ClientSampleId :
B-4(4-5)

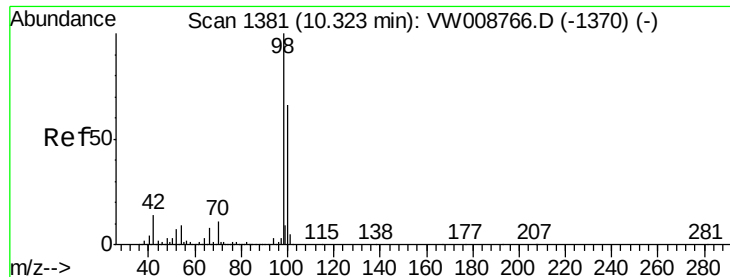
Tot Ion: 41 Resp: 1862
Ion Ratio Lower Upper
41 100
39 11.9 52.5 78.7#
67 0.0 55.0 82.6#
52 2.4 26.9 40.3#



#49
1,4-Dioxane
Concen: 1.154 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW008839.D
Acq: 26 Feb 2019 19:04

Tgt Ion: 88 Resp: 37
Ion Ratio Lower Upper
88 100
43 935.1 29.0 43.4#
58 224.3 52.0 78.0#





#50

Toluene-d8

Concen: 51.235 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

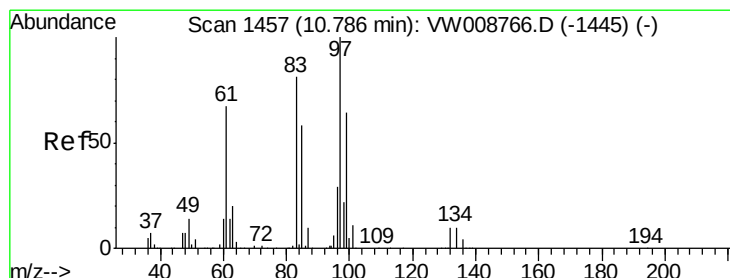
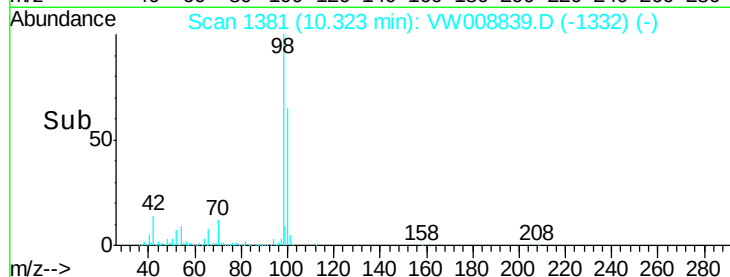
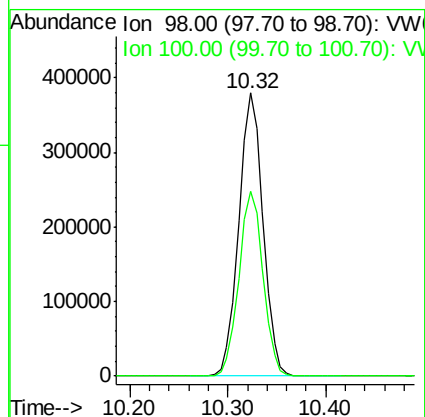
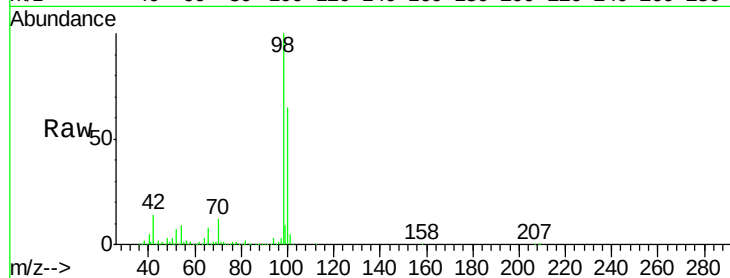
B-4(4-5)

Tot Ion: 98 Resp: 650692

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6



#55

1,1,2-Trichloroethane

Concen: 1.025 ug/l

RT: 10.75 min Scan# 1451

Delta R.T. -0.04 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

Tgt Ion: 97 Resp: 2783

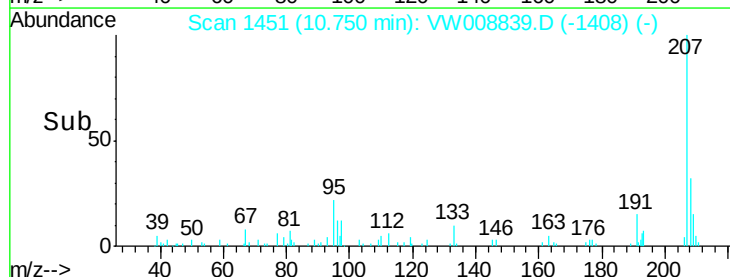
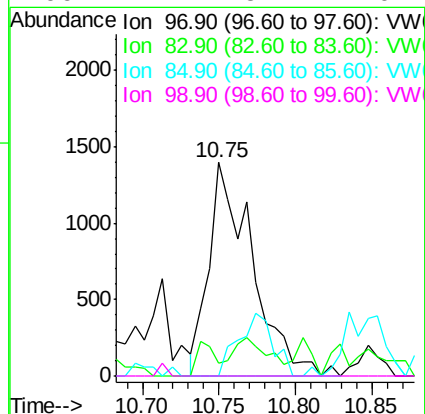
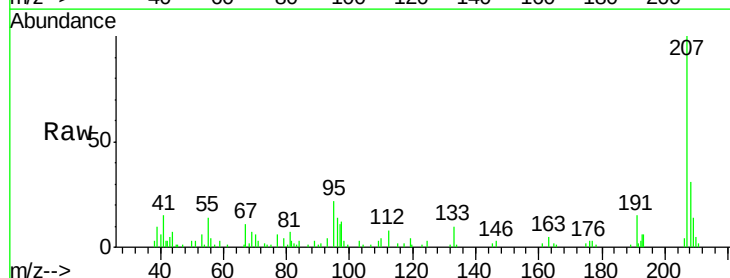
Ion Ratio Lower Upper

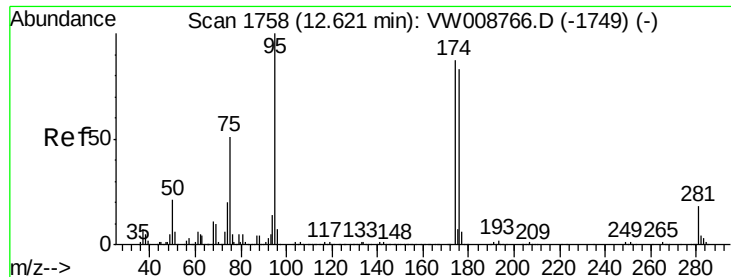
97 100

83 5.9 65.0 97.6#

85 0.0 46.0 69.0#

99 4.7 51.1 76.7#





#62

4-Bromofluorobenzene

Concen: 44.639 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

B-4(4-5)

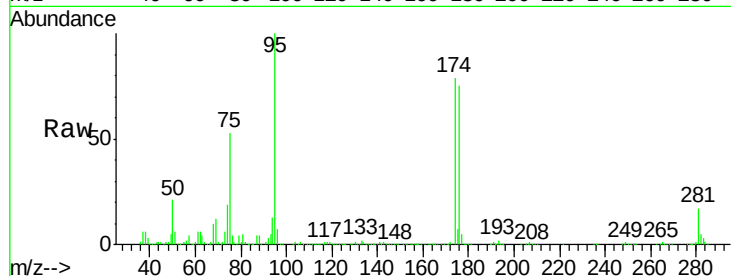
Tot Ion: 95 Resp: 221977

Ion Ratio Lower Upper

95 100

174 87.1 0.0 169.2

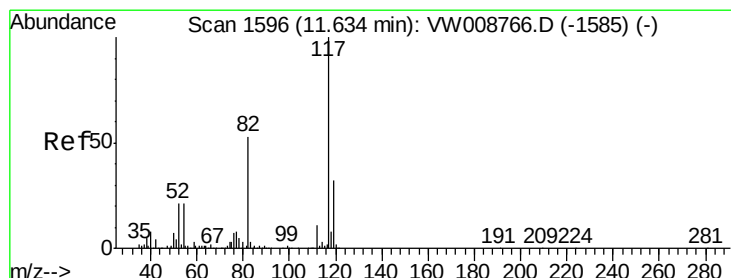
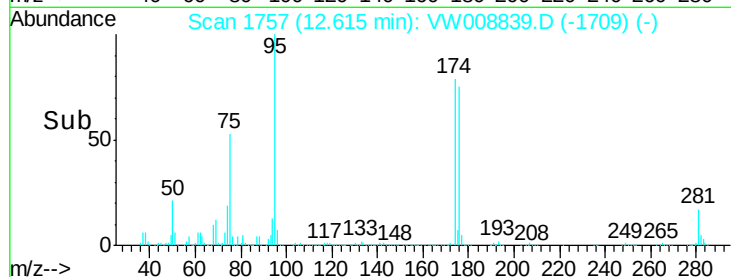
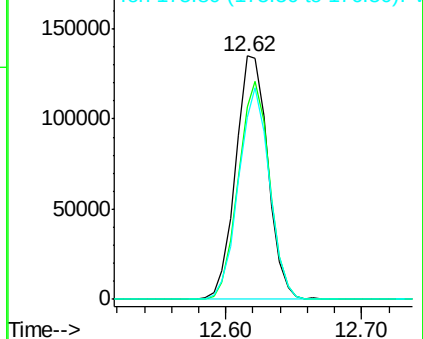
176 83.9 0.0 163.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

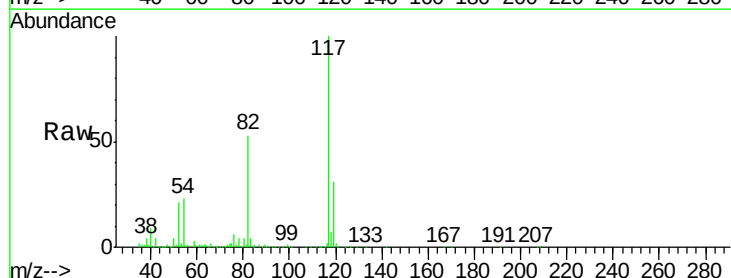
Tgt Ion: 117 Resp: 486046

Ion Ratio Lower Upper

117 100

82 52.8 42.2 63.4

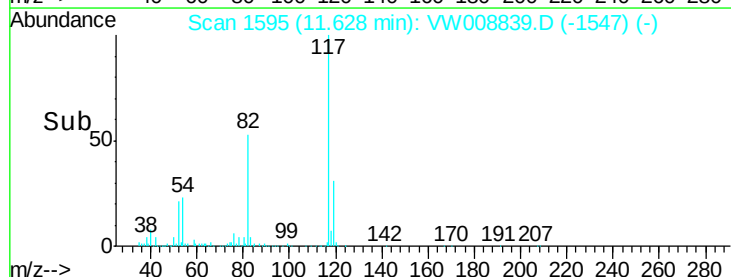
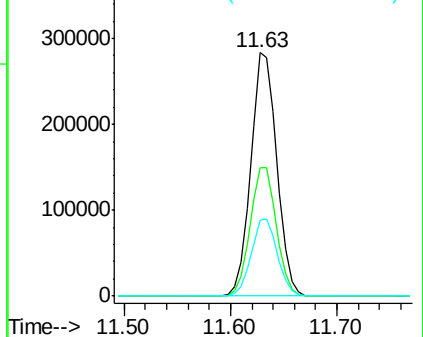
119 31.1 25.9 38.9

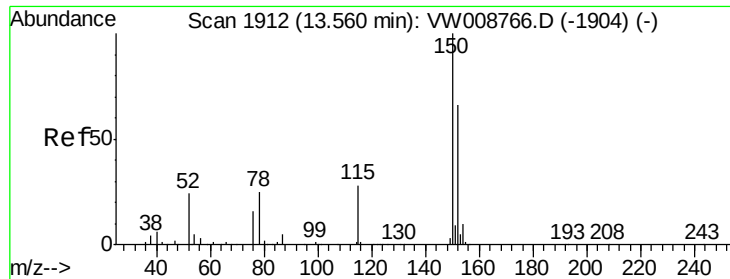


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

B-4(4-5)

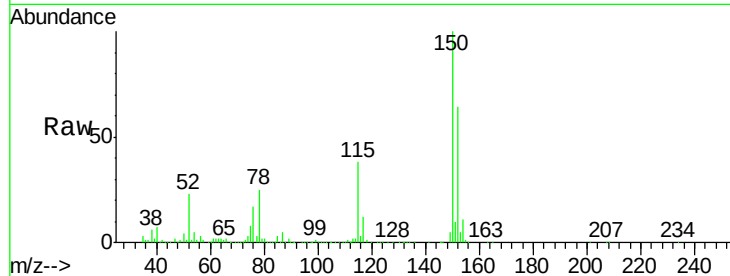
Tot Ion:152 Resp: 231219

Ion Ratio Lower Upper

152 100

115 58.1 28.6 85.8

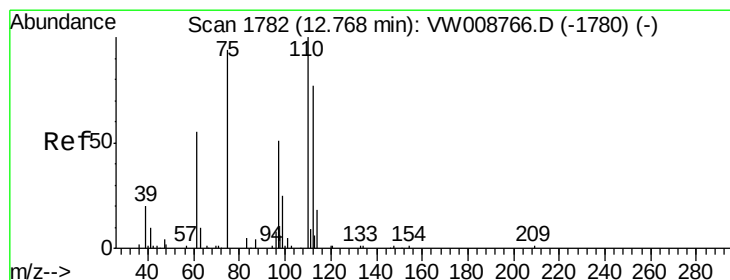
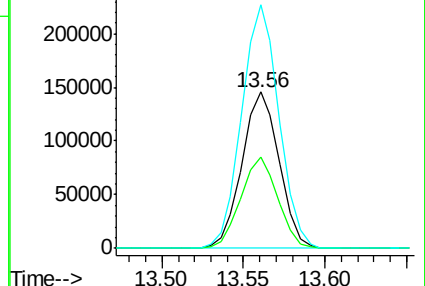
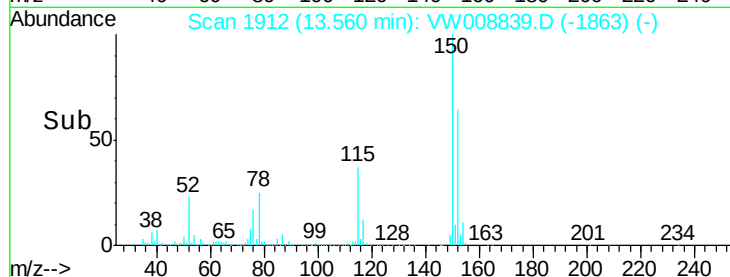
150 155.8 0.0 348.0



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



#76

1,2,3-Trichloropropane

Concen: 63.059 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008839.D

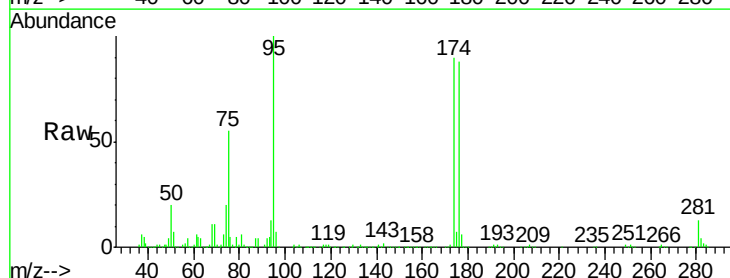
Acq: 26 Feb 2019 19:04

Tgt Ion: 75 Resp: 120381

Ion Ratio Lower Upper

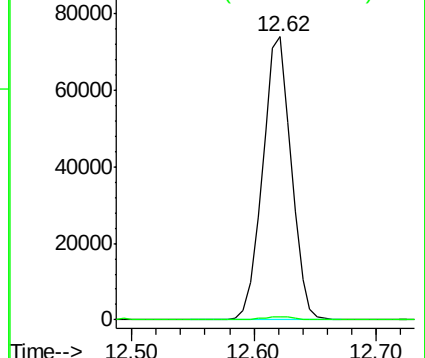
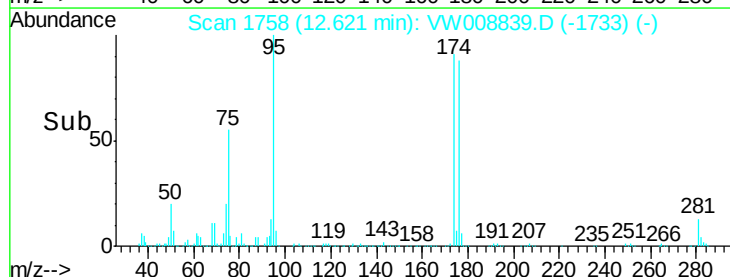
75 100

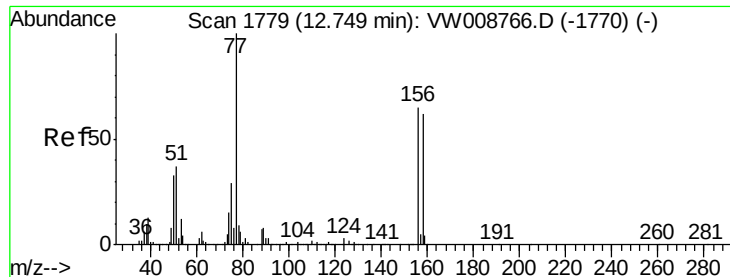
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 1.092 ug/l

RT: 12.87 min Scan# 1798

Delta R.T. 0.12 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

Instrument :

MSVOA_W

ClientSampleId :

B-4(4-5)

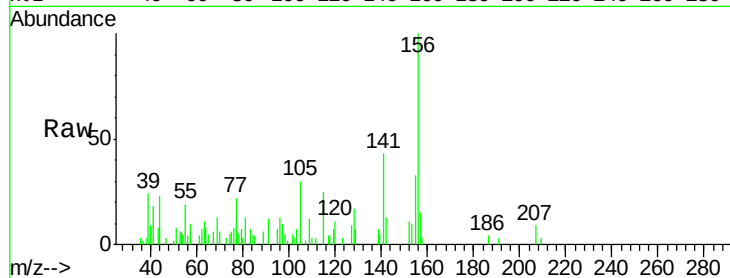
Tot Ion:156 Resp: 4091

Ion Ratio Lower Upper

156 100

77 13.9 89.1 267.4#

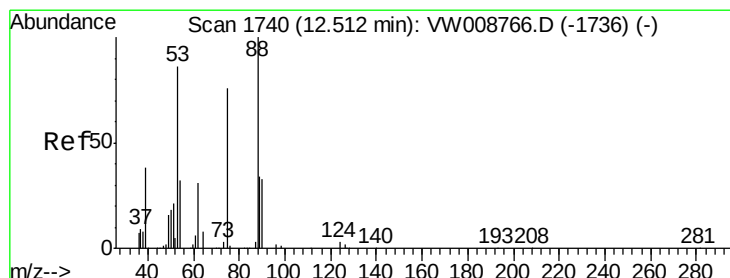
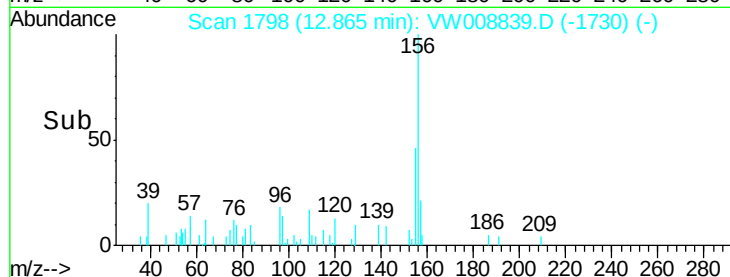
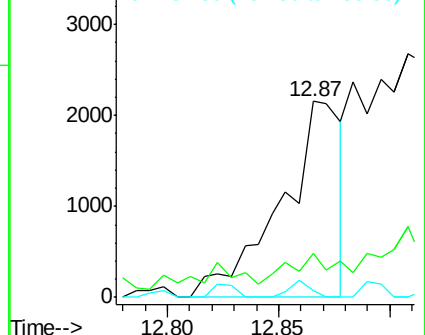
158 2.9 49.2 147.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 153.301 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008839.D

Acq: 26 Feb 2019 19:04

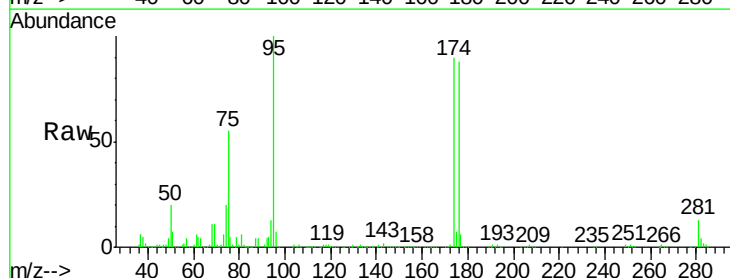
Tgt Ion: 75 Resp: 120381

Ion Ratio Lower Upper

75 100

53 0.3 88.2 132.2#

89 0.4 39.5 59.3#



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

