

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081918\
 Data File : VW004775.D
 Acq On : 18 Aug 2018 11:39
 Operator : SY/AP
 Sample : J4521-19
 Misc : 5.20G/5ML/MSVOA W/SOIL
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 72-11967

Quant Time: Aug 20 12:01:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W081918S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 18 01:49:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	495056	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	860107	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	754334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	312180	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	290294	60.65	ug/l	0.00
Spiked Amount			Recovery	=	121.30%	
35) Dibromofluoromethane	7.88	113	271883	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
50) Toluene-d8	10.33	98	644677	30.04	ug/l	0.00
Spiked Amount			Recovery	=	60.08%	
62) 4-Bromofluorobenzene	12.62	95	311848	40.39	ug/l	0.00
Spiked Amount			Recovery	=	80.78%	

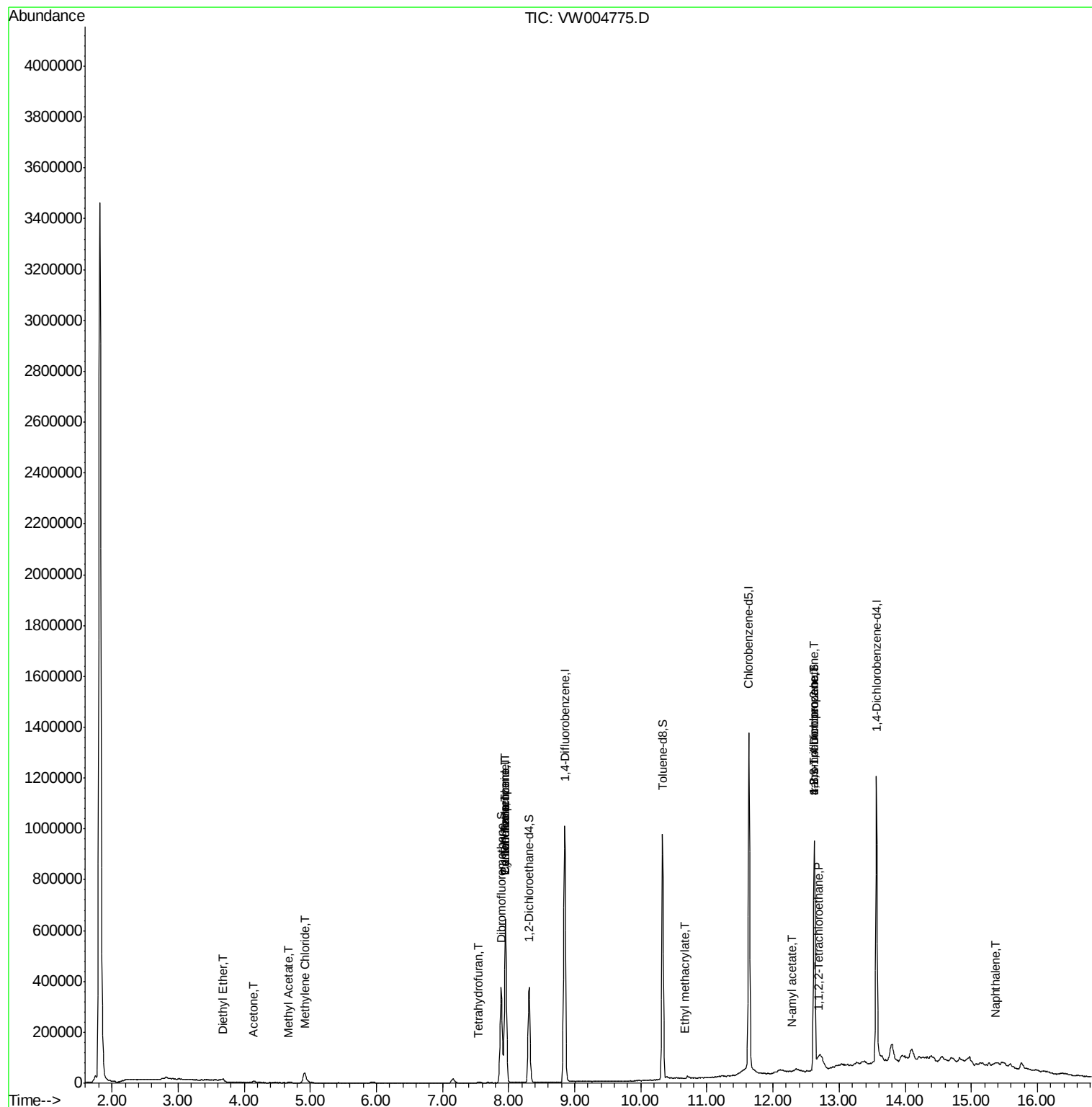
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	6249	2.32	ug/l	90
16) Acetone	4.14	43	10463	8.56	ug/l	94
18) Methyl Acetate	4.68	43	5100	1.95	ug/l	94
20) Methylene Chloride	4.92	84	34239	1.99	ug/l	95
29) Tetrahydrofuran	7.54	42	984	1.11	ug/l #	85
31) Cyclohexane	7.96	56	9451	1.01	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	37379	4.22	ug/l #	49
38) Carbon Tetrachloride	7.95	117	46680	5.72	ug/l #	16
56) Ethyl methacrylate	10.67	69	333	3.03	ug/l #	65
74) N-amyl acetate	12.29	43	259	4.07	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.69	83	5903	1.50	ug/l #	28
76) 1,2,3-Trichloropropane	12.62	75	143872	52.28	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	143872	121.51	ug/l #	14
95) Naphthalene	15.37	128	1109	3.59	ug/l #	61

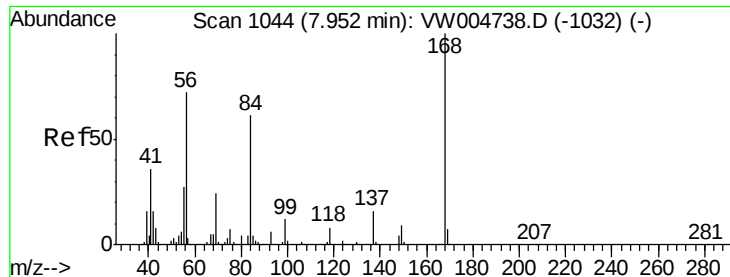
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 18 01:49:53 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

Instrument :

MSVOA_W

ClientSampleId :

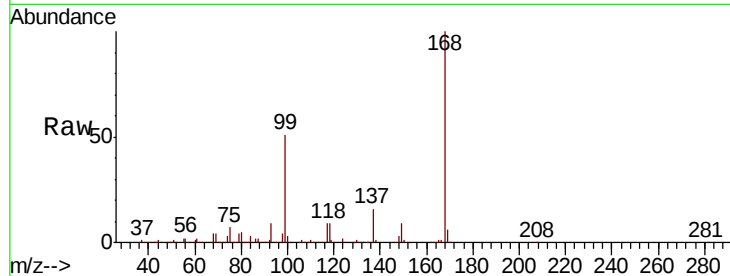
72-11967

Tot Ion:168 Resp: 495056

Ion Ratio Lower Upper

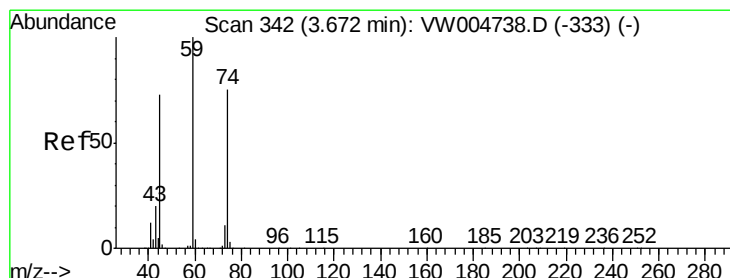
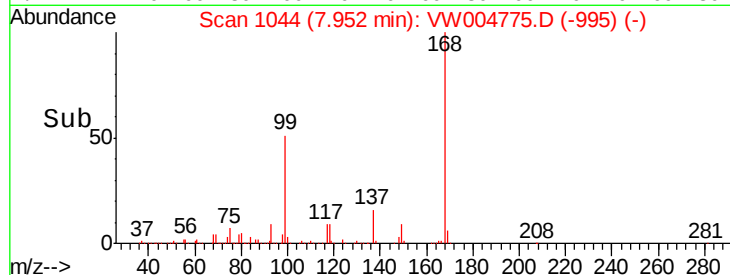
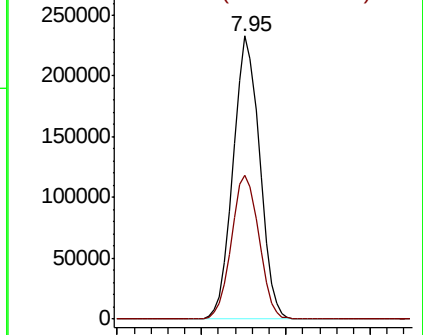
168 100

99 50.8 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.32 ug/l

RT: 3.68 min Scan# 343

Delta R.T. 0.01 min

Lab File: VW004775.D

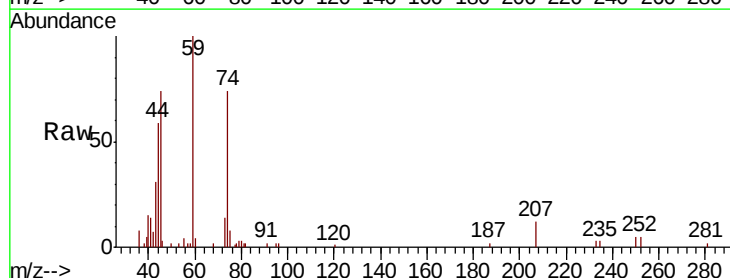
Acq: 18 Aug 2018 11:39

Tgt Ion: 74 Resp: 6249

Ion Ratio Lower Upper

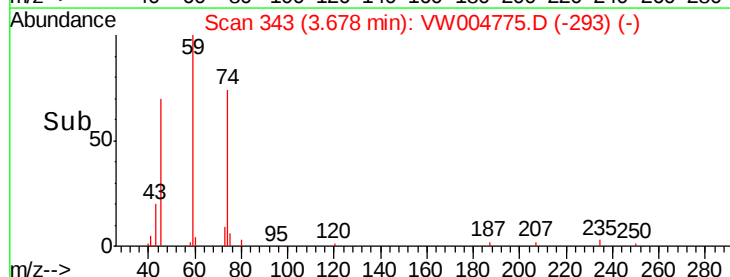
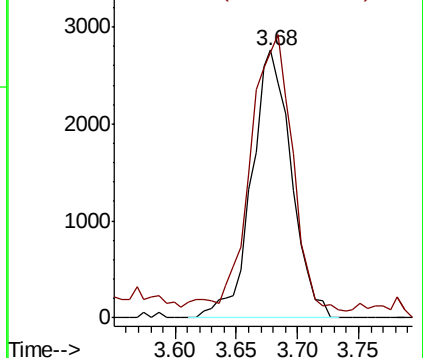
74 100

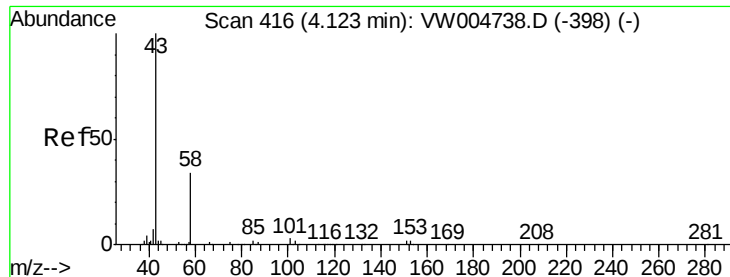
45 109.9 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#16

Acetone

Concen: 8.56 ug/l

RT: 4.14 min Scan# 419

Delta R.T. 0.02 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

Instrument :

MSVOA_W

ClientSampleId :

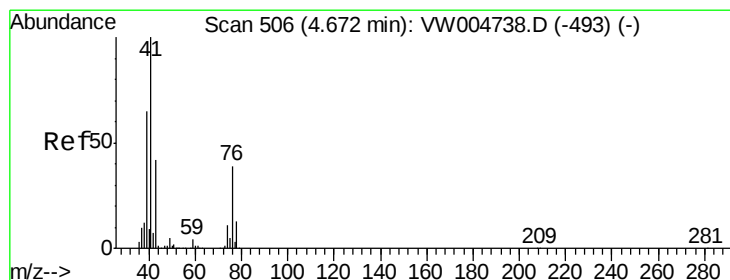
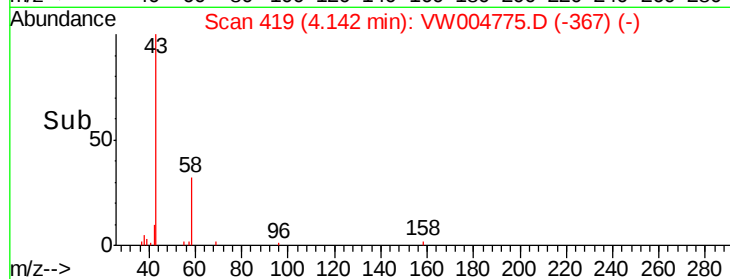
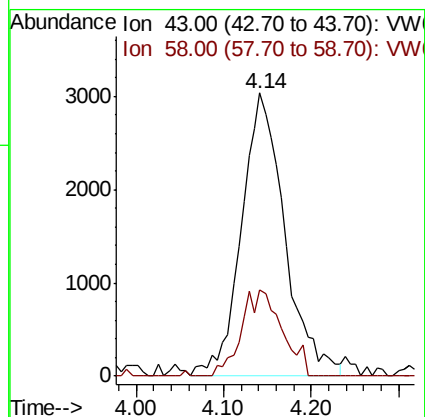
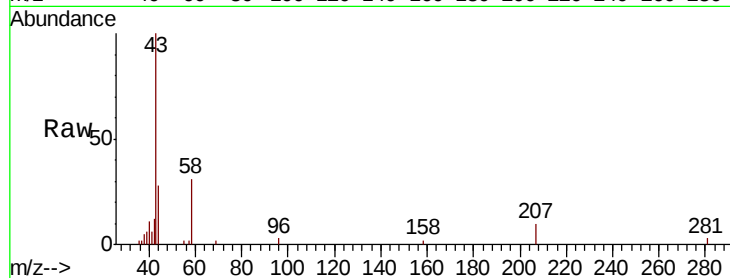
72-11967

Tot Ion: 43 Resp: 10463

Ion Ratio Lower Upper

43 100

58 30.6 27.3 40.9



#18

Methyl Acetate

Concen: 1.95 ug/l

RT: 4.68 min Scan# 507

Delta R.T. 0.01 min

Lab File: VW004775.D

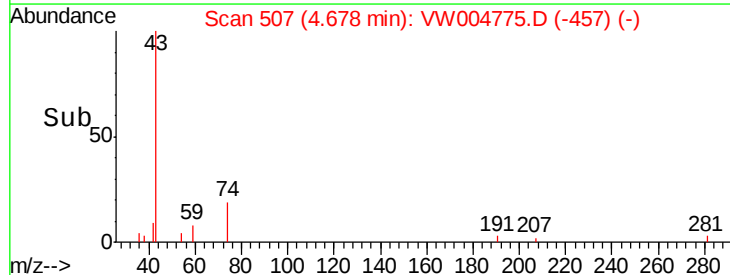
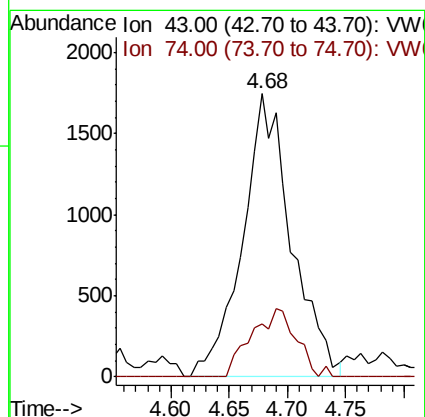
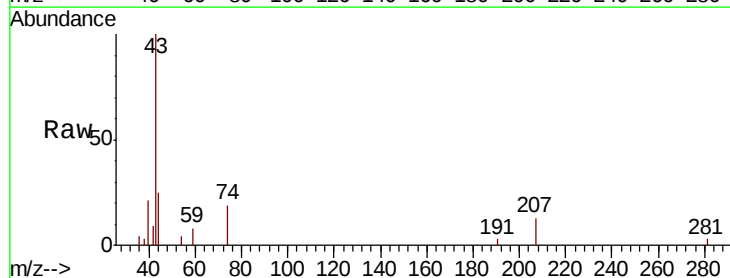
Acq: 18 Aug 2018 11:39

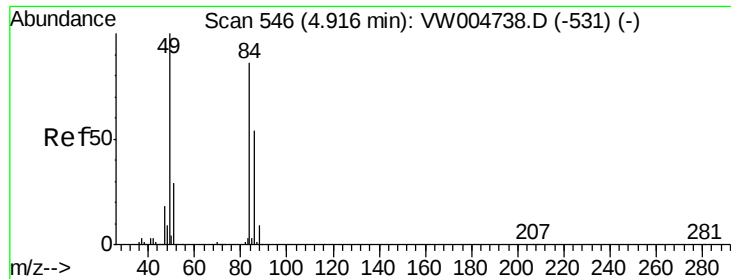
Tgt Ion: 43 Resp: 5100

Ion Ratio Lower Upper

43 100

74 21.7 19.8 29.8

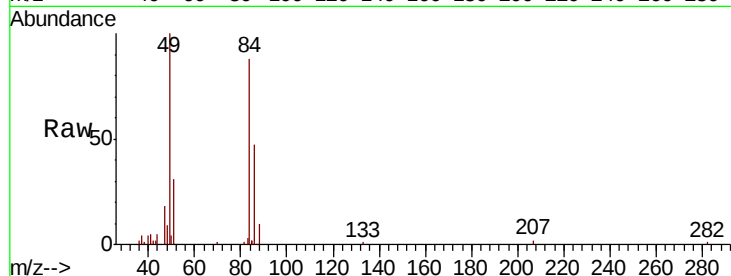




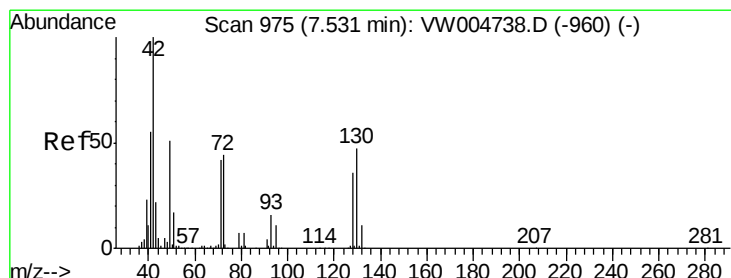
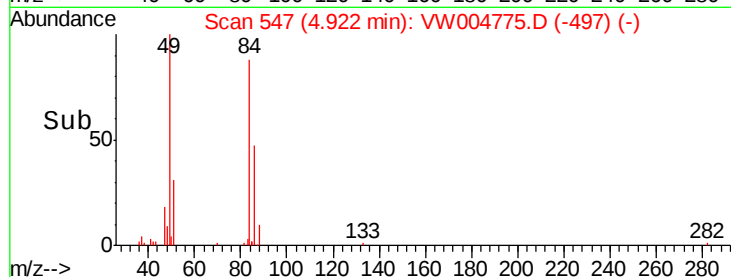
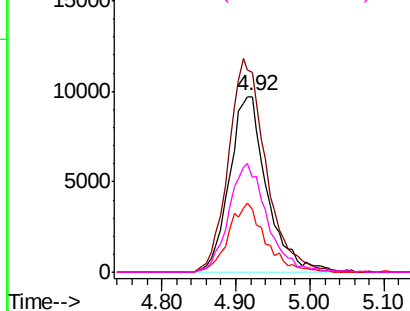
#20
Methvlene Chloride
Concen: 1.99 ug/l
RT: 4.92 min Scan# 547
Delta R.T. 0.01 min
Lab File: VW004775.D
Acq: 18 Aug 2018 11:39

Instrument :
MSVOA_W
ClientSampleId :
72-11967

Tot Ion:	84	Resp:	34239
Ion	Ratio	Lower	Upper
84	100		
49	113.7	93.2	139.8
51	35.4	27.4	41.0
86	53.7	50.6	75.8

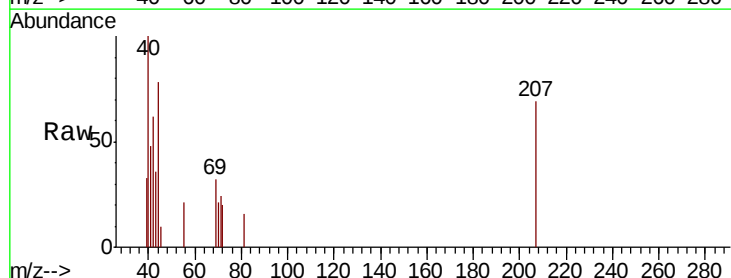


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

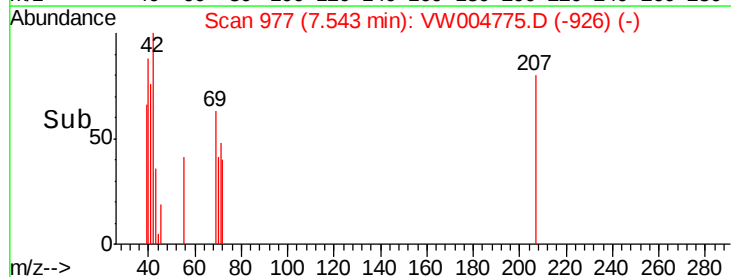
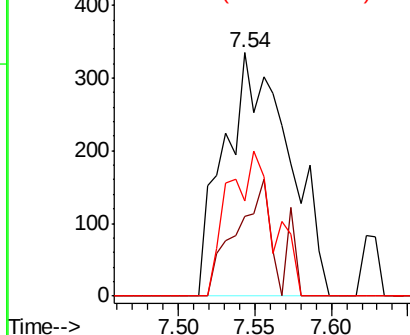


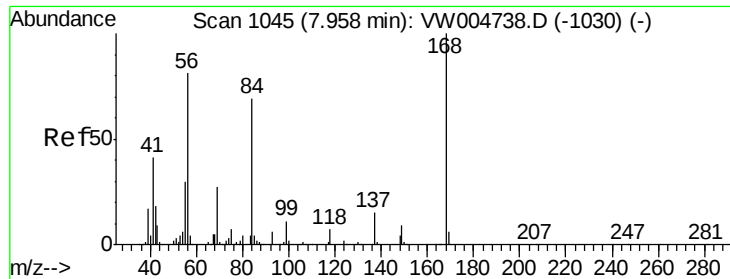
#29
Tetrahydrofuran
Concen: 1.11 ug/l
RT: 7.54 min Scan# 977
Delta R.T. 0.01 min
Lab File: VW004775.D
Acq: 18 Aug 2018 11:39

Tgt Ion:	42	Resp:	984
Ion	Ratio	Lower	Upper
42	100		
72	24.7	34.9	52.3#
71	41.7	33.8	50.6



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

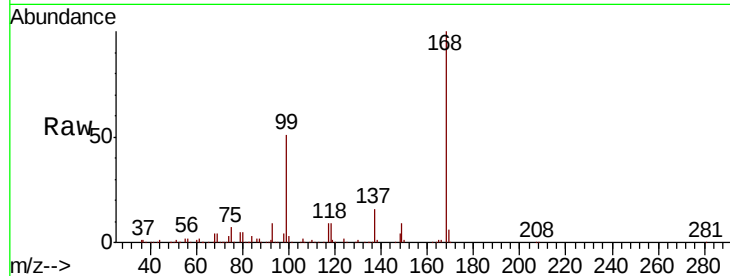




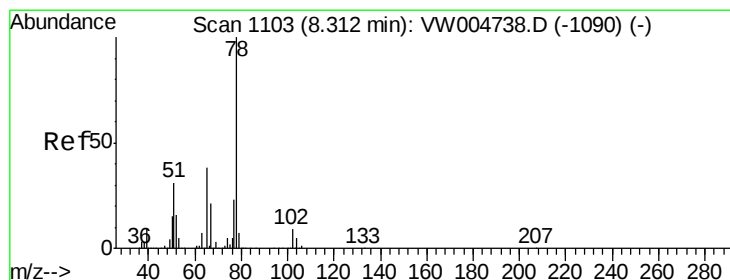
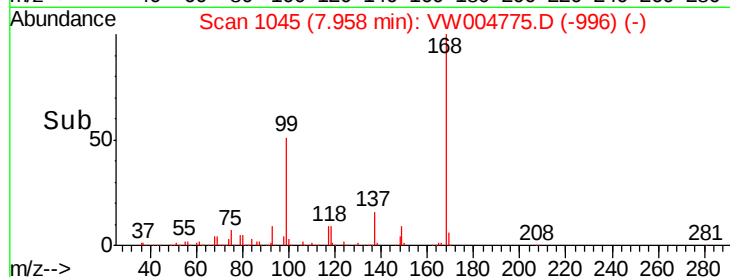
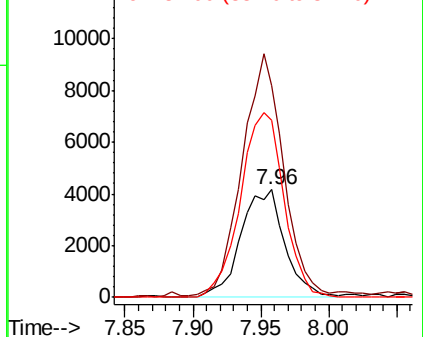
#31
Cyclohexane
Concen: 1.01 ug/l
RT: 7.96 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VW004775.D
Acq: 18 Aug 2018 11:39

Instrument :
MSVOA_W
ClientSampleId :
72-11967

Tot Ion: 56 Resp: 9451
Ion Ratio Lower Upper
56 100
69 197.6 27.1 40.7#
84 167.0 68.3 102.5#

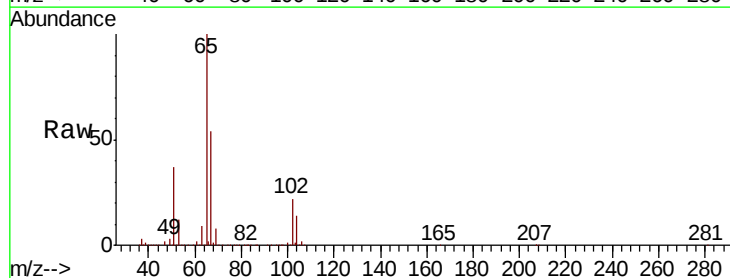


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

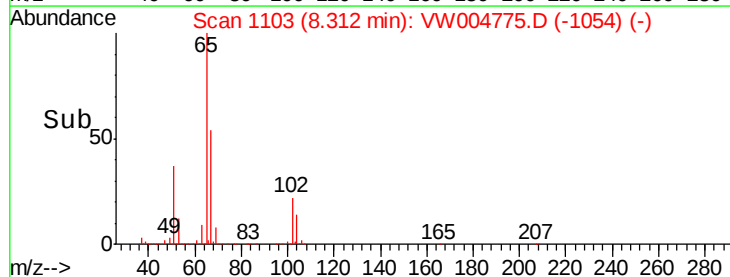
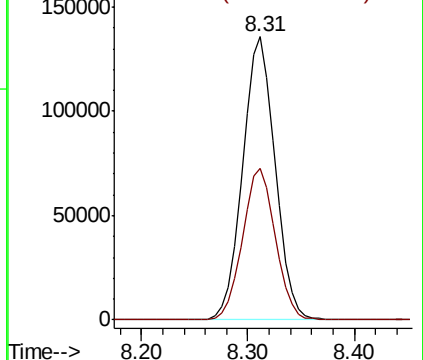


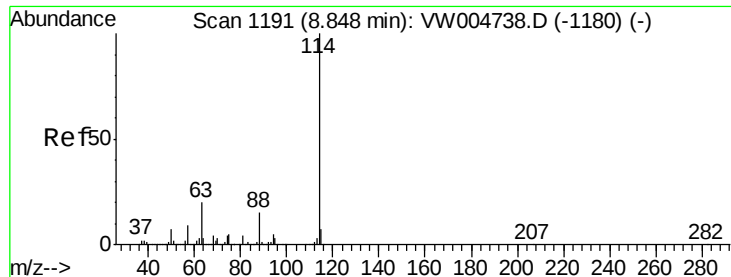
#33
1,2-Dichloroethane-d4
Concen: 60.65 ug/l
RT: 8.31 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VW004775.D
Acq: 18 Aug 2018 11:39

Tgt Ion: 65 Resp: 290294
Ion Ratio Lower Upper
65 100
67 54.3 0.0 109.4



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

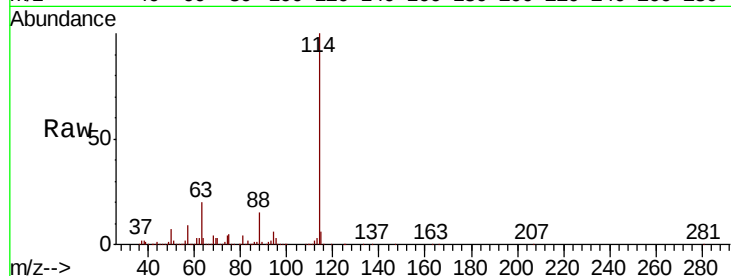




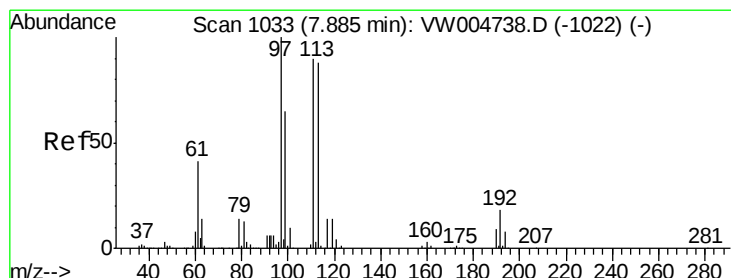
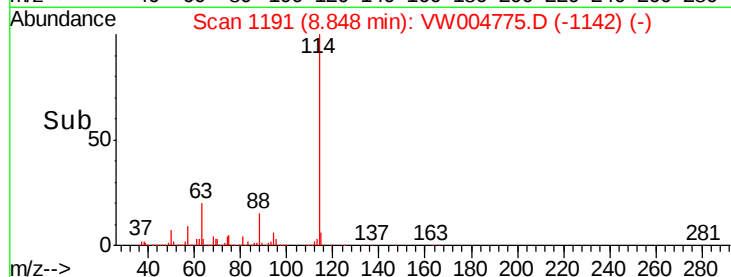
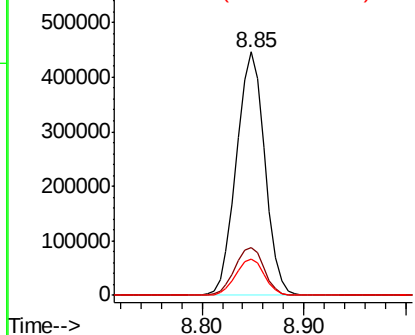
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VW004775.D
 Acq: 18 Aug 2018 11:39

Instrument :
 MSVOA_W
 ClientSampleId :
 72-11967

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.0
88	15.1	0.0	30.0

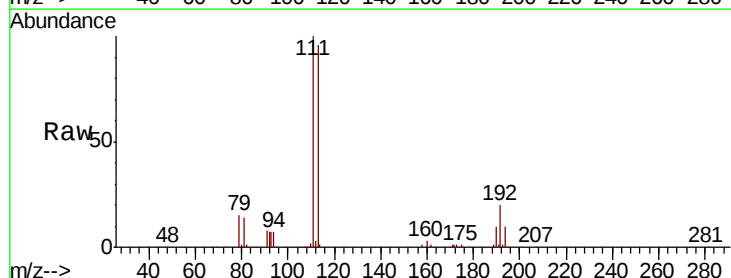


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

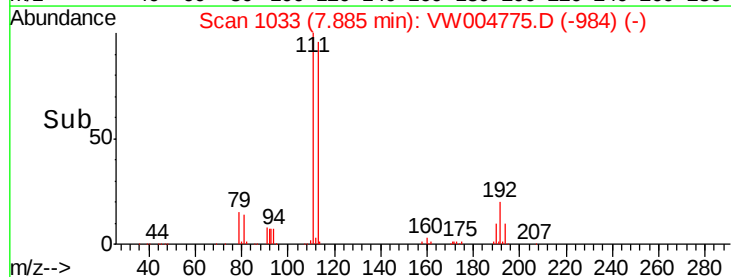
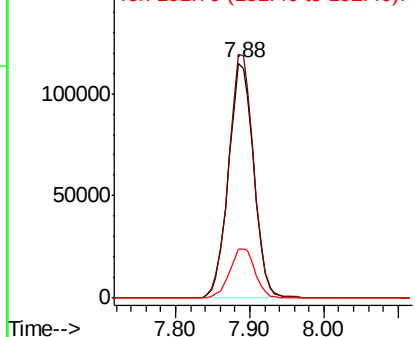


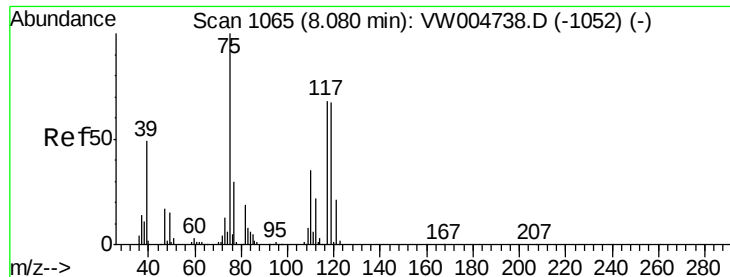
#35
 Dibromofluoromethane
 Concen: 49.46 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: VW004775.D
 Acq: 18 Aug 2018 11:39

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.4	123.6
192	21.1	16.7	25.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.22 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

Instrument :

MSVOA_W

ClientSampleId :

72-11967

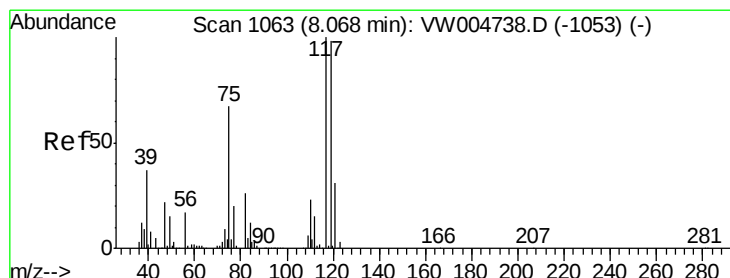
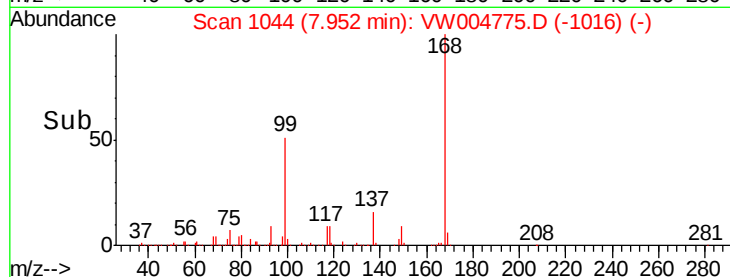
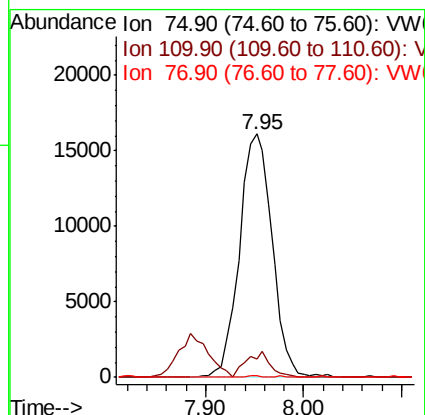
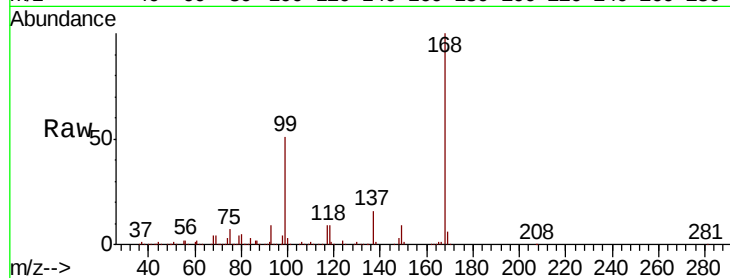
Tot Ion: 75 Resp: 37379

Ion Ratio Lower Upper

75 100

110 7.9 17.8 53.5#

77 0.2 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.72 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

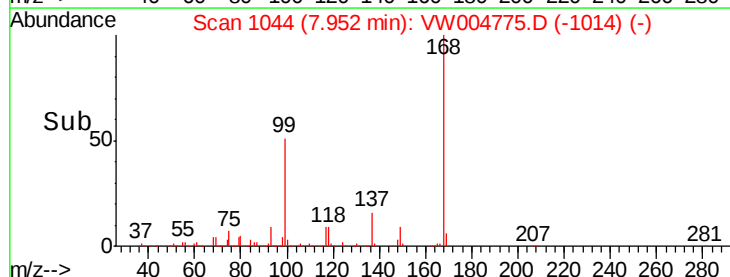
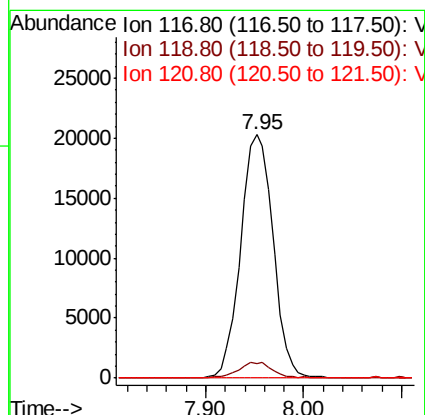
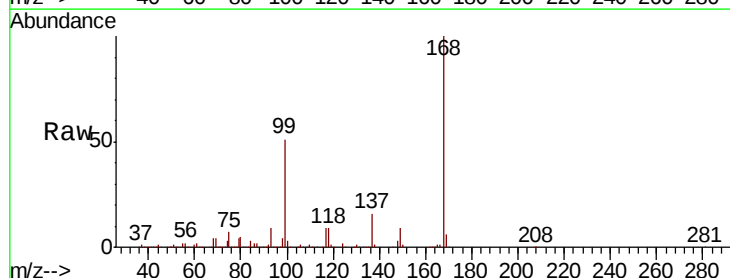
Tgt Ion: 117 Resp: 46680

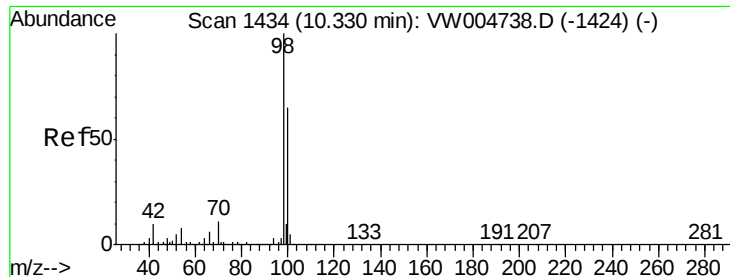
Ion Ratio Lower Upper

117 100

119 6.1 78.0 117.0#

121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 30.04 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

Instrument :

MSVOA_W

ClientSampleId :

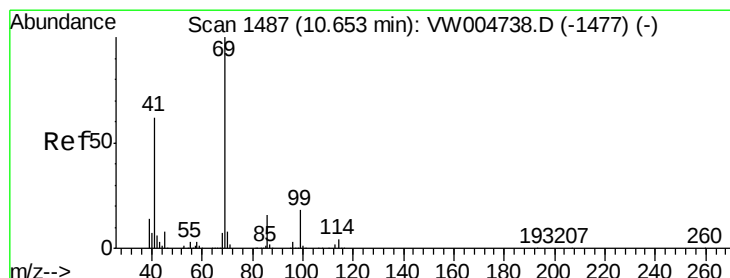
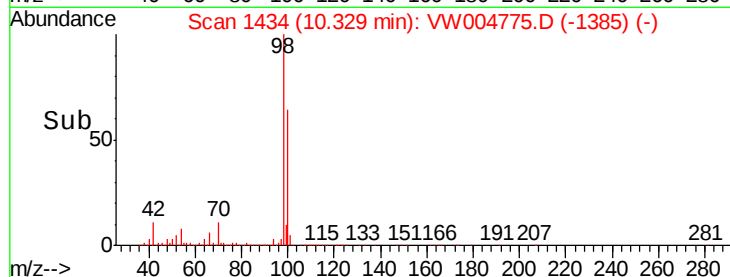
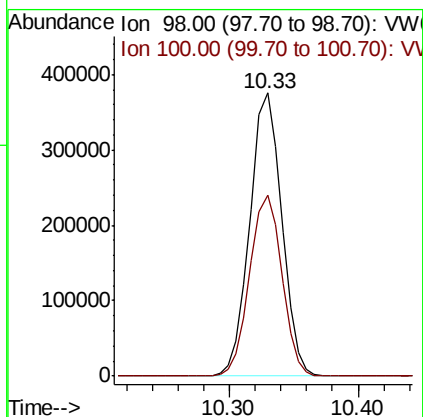
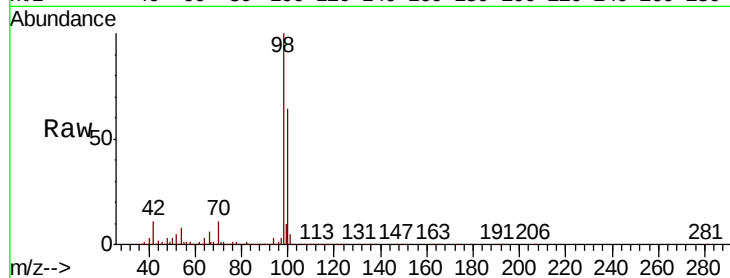
72-11967

Tot Ion: 98 Resp: 644677

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.8



#56

Ethyl methacrylate

Concen: 3.03 ug/l

RT: 10.67 min Scan# 1490

Delta R.T. 0.02 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

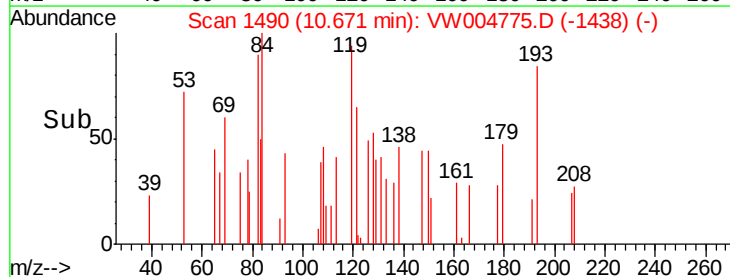
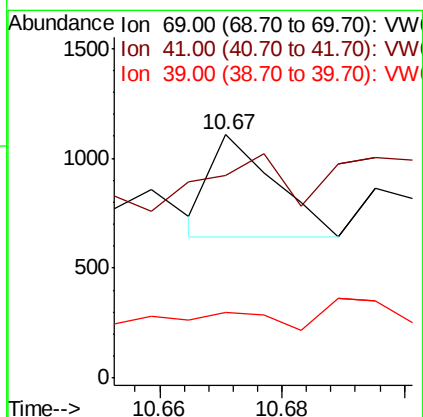
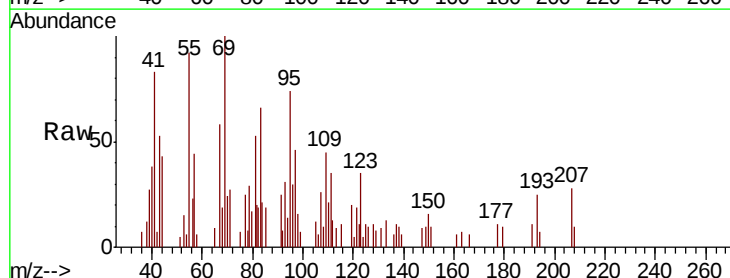
Tgt Ion: 69 Resp: 333

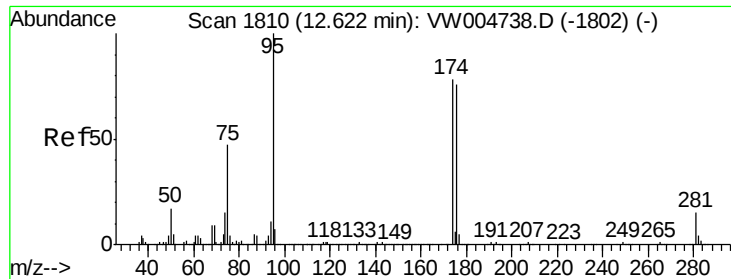
Ion Ratio Lower Upper

69 100

41 101.2 50.7 76.1#

39 28.8 21.4 32.2

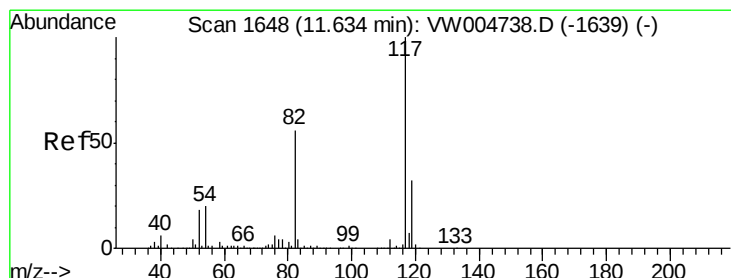
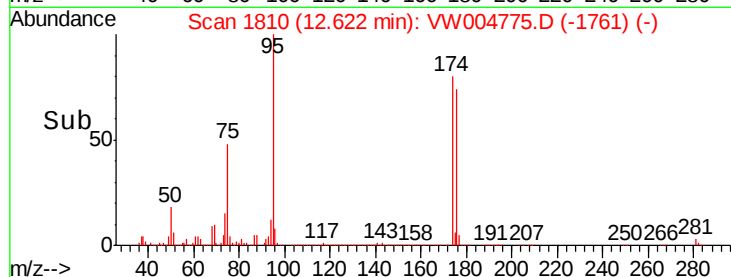
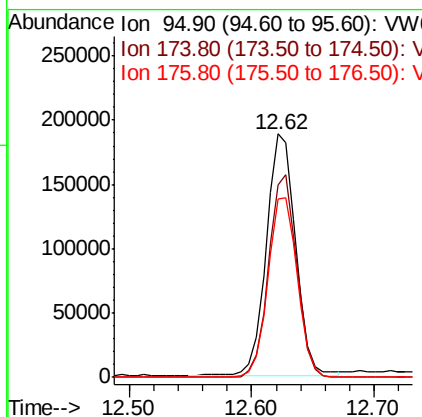
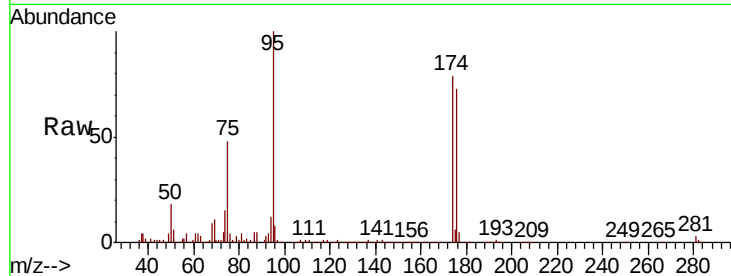




#62
4-Bromofluorobenzene
Concen: 40.39 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VW004775.D
Acq: 18 Aug 2018 11:39

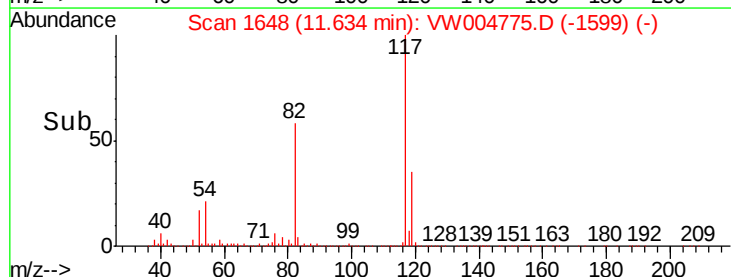
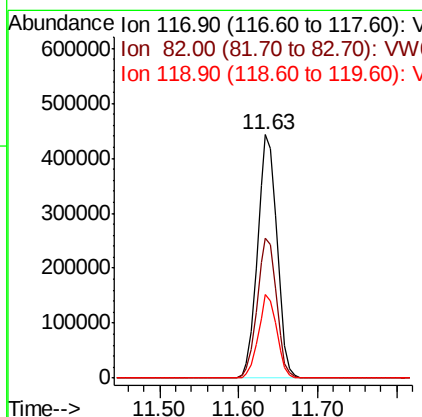
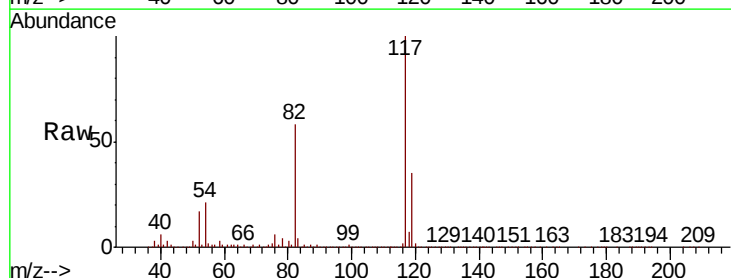
Instrument :
MSVOA_W
ClientSampleId :
72-11967

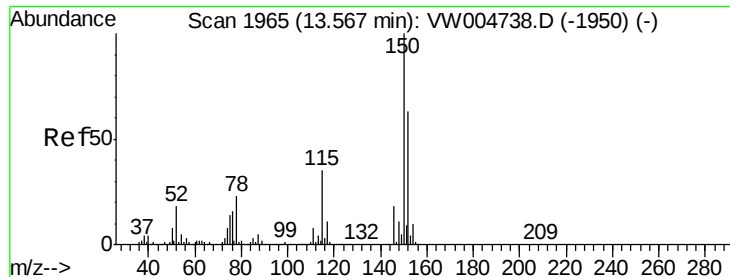
Tot Ion	95	Resp	311848
Ion Ratio	Lower	Upper	
95	100		
174	80.5	0.0	165.8
176	74.8	0.0	159.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW004775.D
Acq: 18 Aug 2018 11:39

Tgt Ion	117	Resp	754334
Ion Ratio	Lower	Upper	
117	100		
82	57.6	44.6	67.0
119	34.5	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

Instrument :

MSVOA_W

ClientSampleId :

72-11967

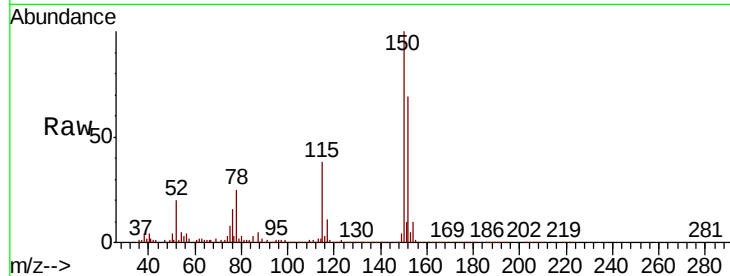
Tot Ion:152 Resp: 312180

Ion Ratio Lower Upper

152 100

115 56.9 28.5 85.5

150 152.3 0.0 344.8

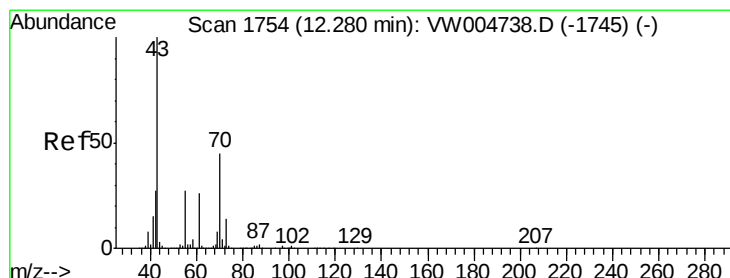
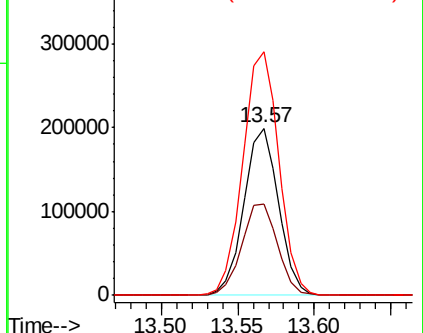
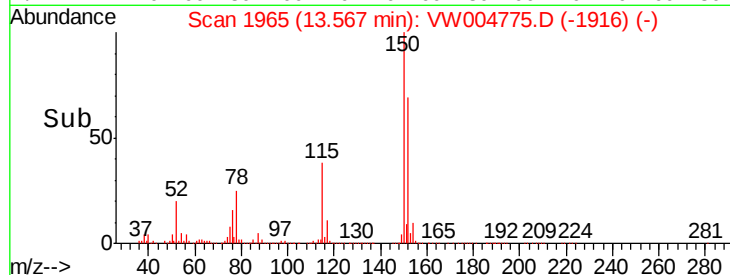


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 4.07 ug/l

RT: 12.29 min Scan# 1755

Delta R.T. 0.01 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

Tgt Ion: 43 Resp: 259

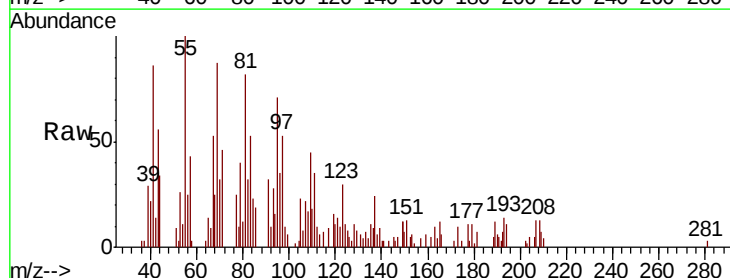
Ion Ratio Lower Upper

43 100

70 0.0 36.3 54.5#

55 403.1 22.6 33.8#

61 0.0 20.2 30.4#



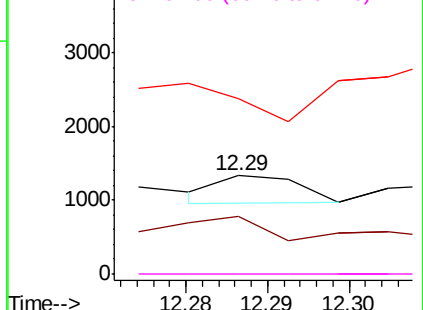
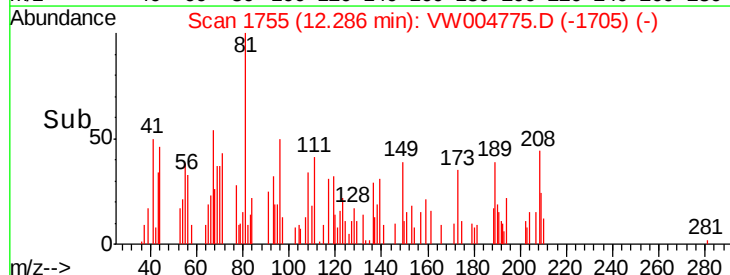
Abundance

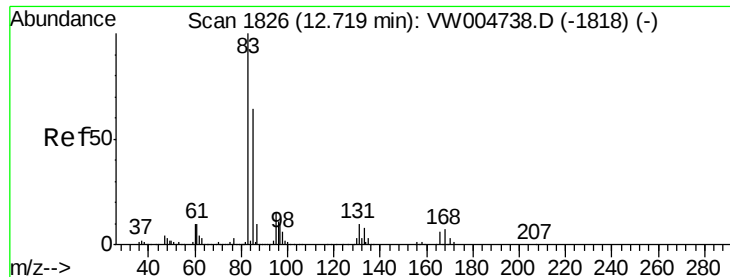
Ion 43.00 (42.70 to 43.70): VW

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

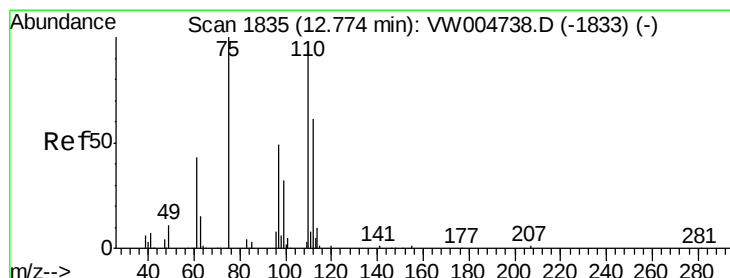
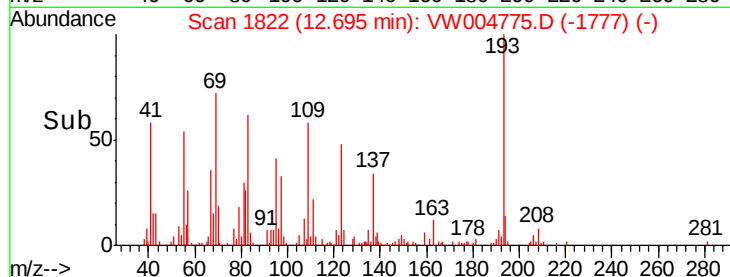
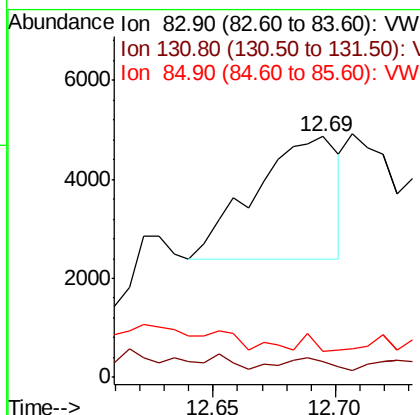
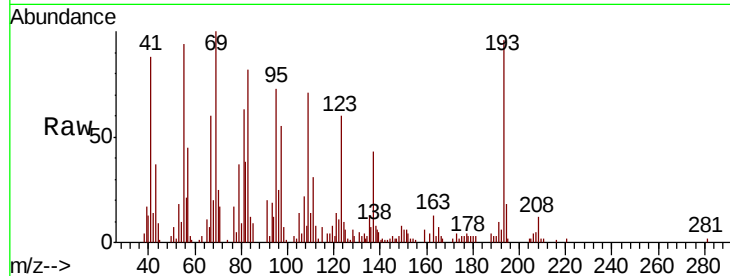




#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.50 ug/l
 RT: 12.69 min Scan# 1822
 Delta R.T. -0.02 min
 Lab File: VW004775.D
 Acq: 18 Aug 2018 11:39

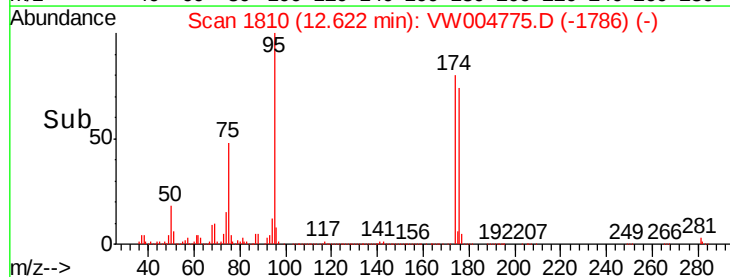
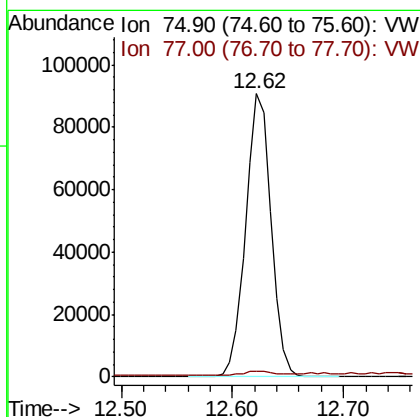
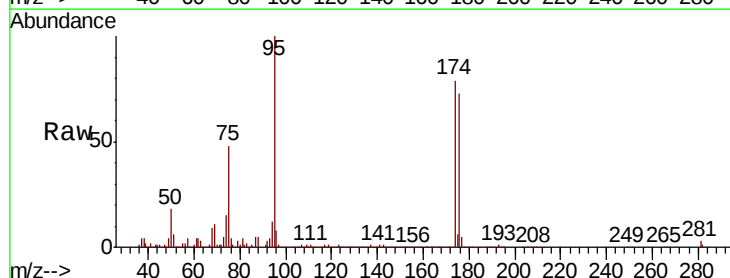
Instrument :
 MSVOA_W
 ClientSampleId :
 72-11967

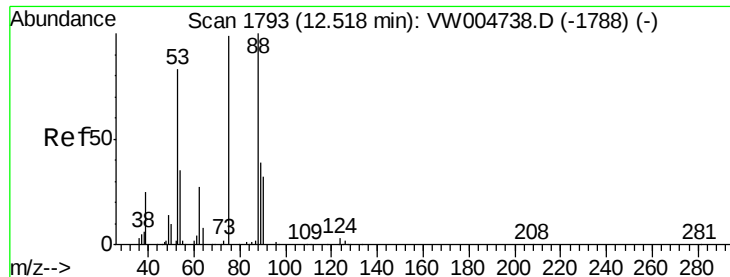
Tot Ion: 83 Resp: 5903
 Ion Ratio Lower Upper
 83 100
 131 6.1 5.3 15.8
 85 0.0 31.9 95.9#



#76
 1,2,3-Trichloropropane
 Concen: 52.28 ug/l
 RT: 12.62 min Scan# 1810
 Delta R.T. -0.15 min
 Lab File: VW004775.D
 Acq: 18 Aug 2018 11:39

Tgt Ion: 75 Resp: 143872
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 121.51 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

Instrument :

MSVOA_W

ClientSampleId :

72-11967

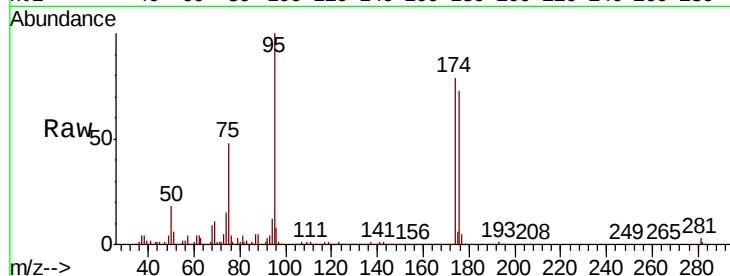
Tot Ion: 75 Resp: 143872

Ion Ratio Lower Upper

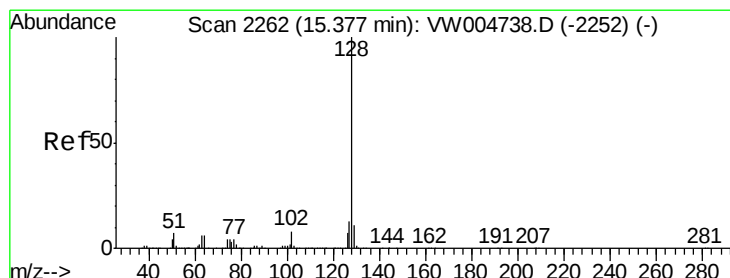
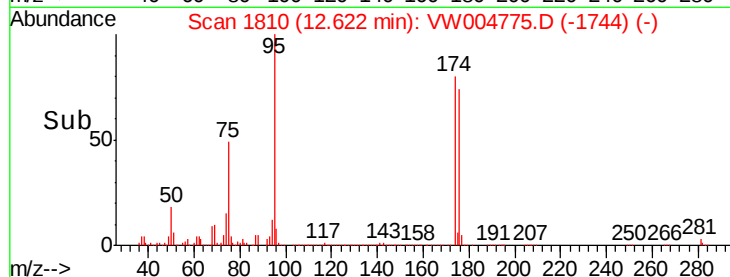
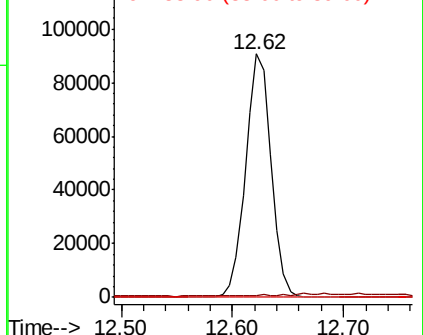
75 100

53 0.3 72.2 108.4#

89 0.1 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 3.59 ug/l

RT: 15.37 min Scan# 2261

Delta R.T. -0.01 min

Lab File: VW004775.D

Acq: 18 Aug 2018 11:39

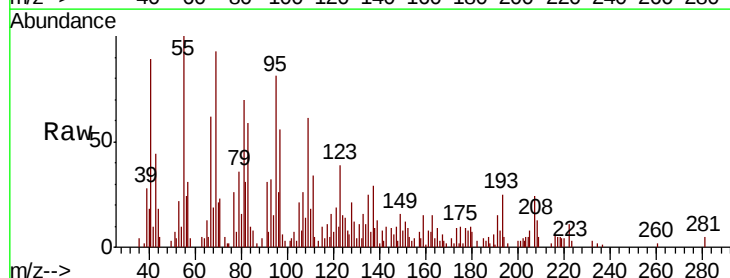
Tgt Ion: 128 Resp: 1109

Ion Ratio Lower Upper

128 100

127 37.2 10.4 15.6#

129 15.4 8.6 13.0#



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

