

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082019\
 Data File : VW012038.D
 Acq On : 20 Aug 2019 19:12
 Operator : SY/VA
 Sample : K4388-17
 Misc : 3.36G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T6-E1-(0)

Quant Time: Aug 21 01:35:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	72703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	130596	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	107758	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	29379	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	89051	106.67	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	213.34%	
35) Dibromofluoromethane	7.88	113	57338	78.26	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	156.52%	
50) Toluene-d8	10.32	98	144349	48.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.24%	
62) 4-Bromofluorobenzene	12.62	95	40235	37.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	75.24%	

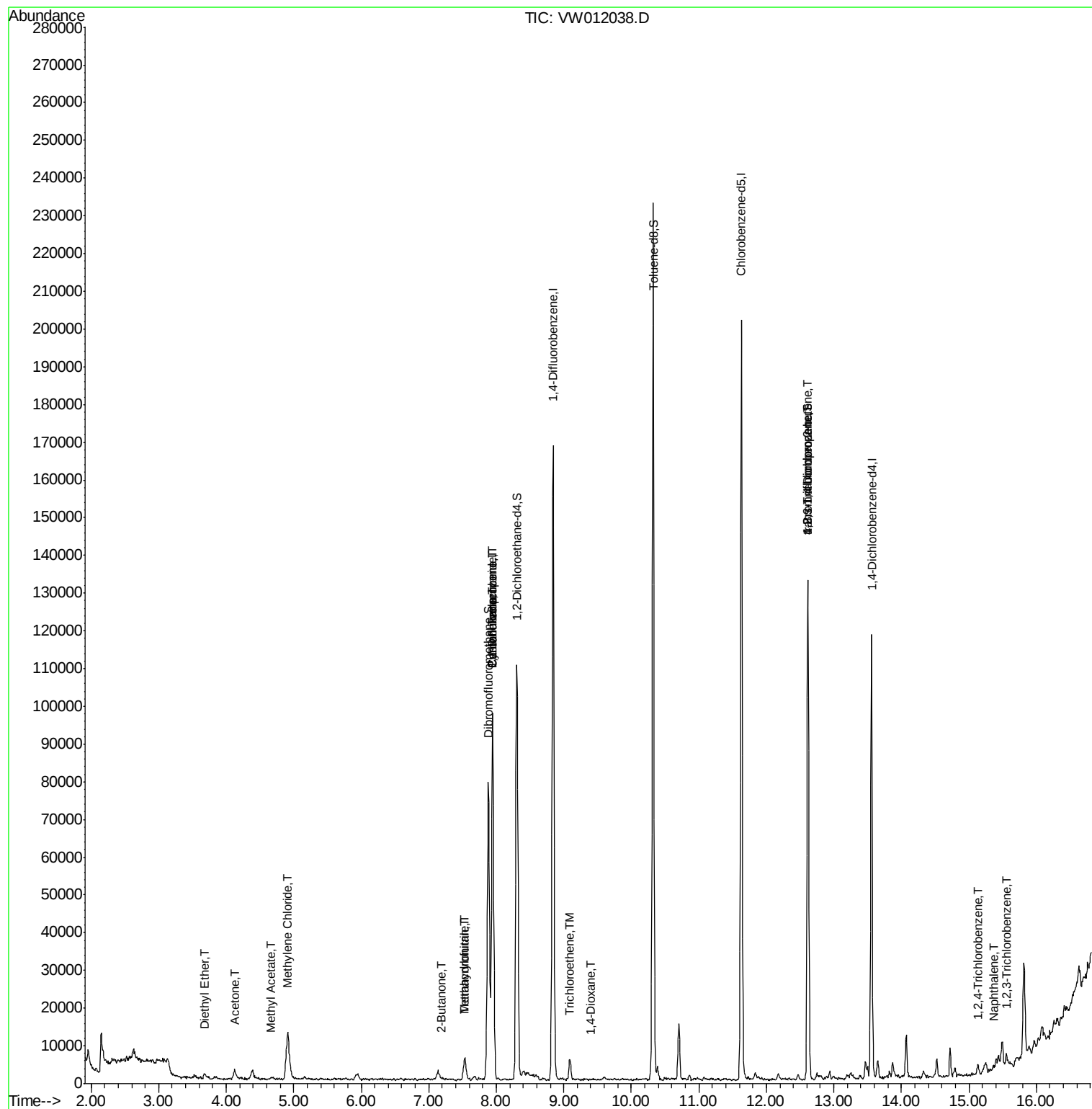
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	689	1.607	ug/l	83
11) Tert butyl alcohol	5.17	59	650	Below Cal	#	89
16) Acetone	4.13	43	4921	18.531	ug/l	98
18) Methyl Acetate	4.67	43	620	1.039	ug/l #	75
20) Methylene Chloride	4.92	84	9057	9.889	ug/l	94
25) 2-Butanone	7.18	43	559	1.609	ug/l #	56
29) Tetrahydrofuran	7.53	42	4844	24.387	ug/l	96
31) Cyclohexane	7.95	56	1922	1.231	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	6171	4.544	ug/l #	52
38) Carbon Tetrachloride	7.95	117	7166	6.164	ug/l #	17
41) Methacrylonitrile	7.54	41	3282	7.028	ug/l #	51
44) Trichloroethene	9.09	130	1833	2.005	ug/l	79
49) 1,4-Dioxane	9.40	88	20	2.974	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	21318	68.577	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	21318	158.046	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.13	180	625	1.056	ug/l	95
95) Naphthalene	15.36	128	1176	3.038	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.55	180	691	1.331	ug/l	95

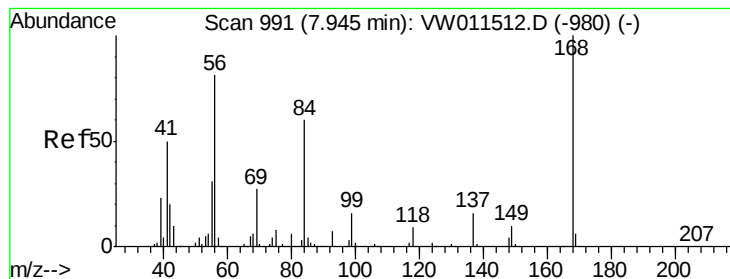
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

Instrument :

MSVOA_W

ClientSampleId :

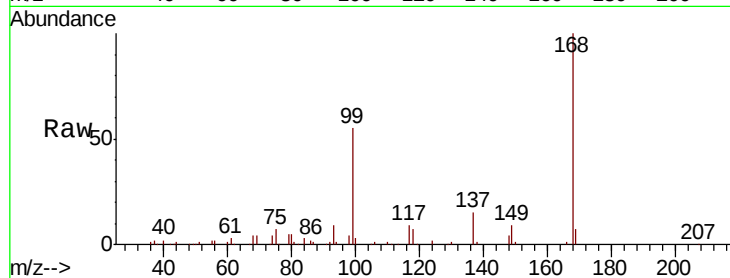
T6-E1-(0)

Tgt Ion:168 Resp: 72703

Ion Ratio Lower Upper

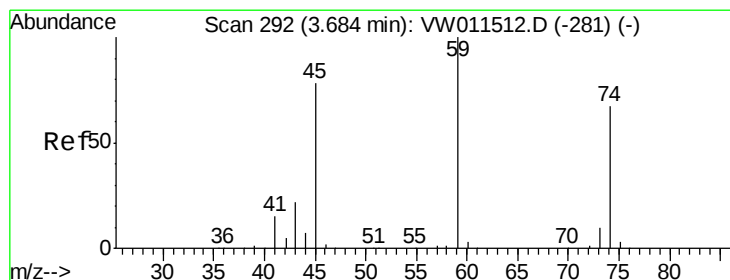
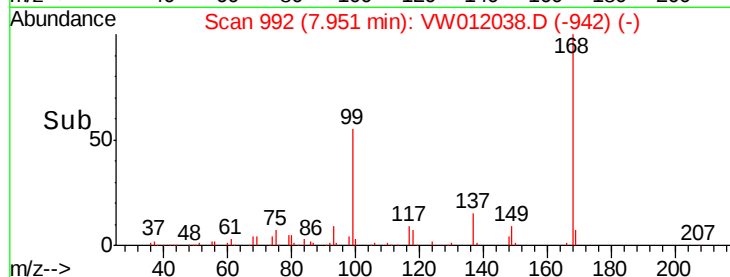
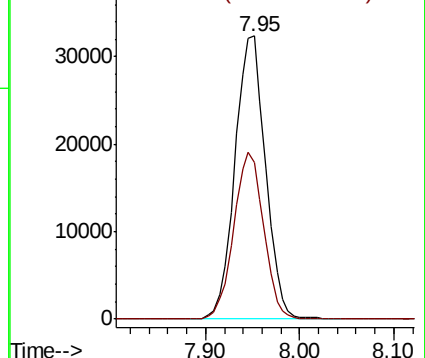
168 100

99 55.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.607 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW012038.D

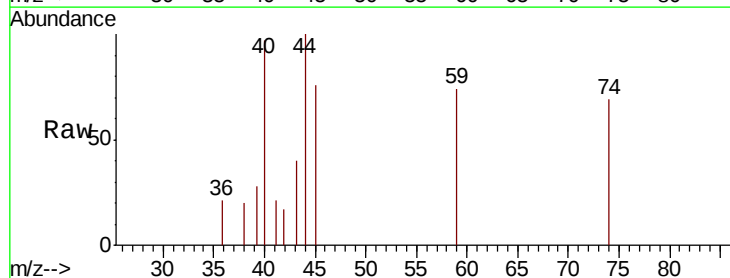
Acq: 20 Aug 2019 19:12

Tgt Ion: 74 Resp: 689

Ion Ratio Lower Upper

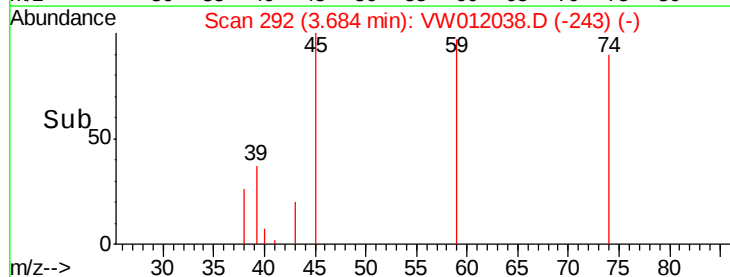
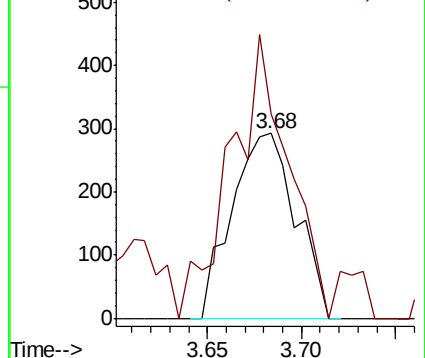
74 100

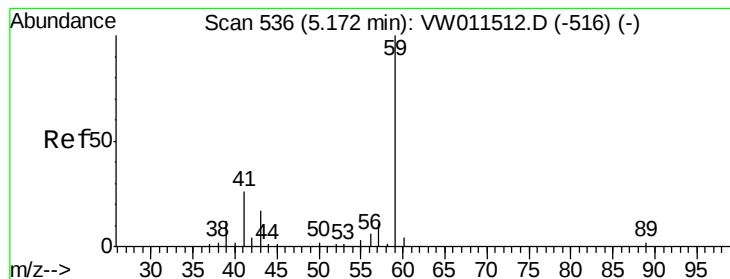
45 138.0 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

Instrument :

MSVOA_W

ClientSampled :

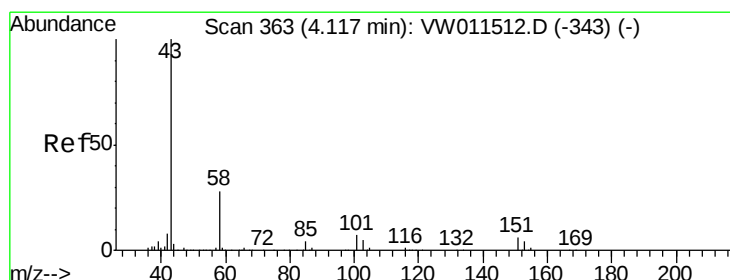
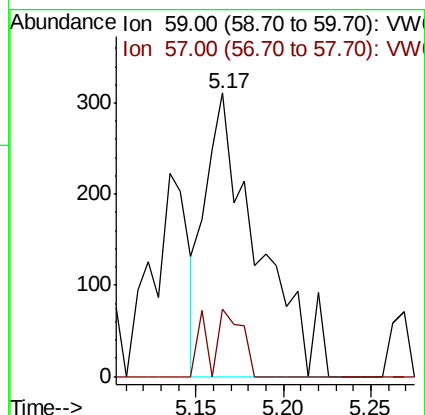
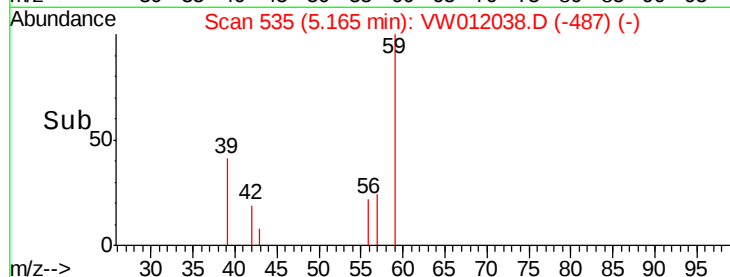
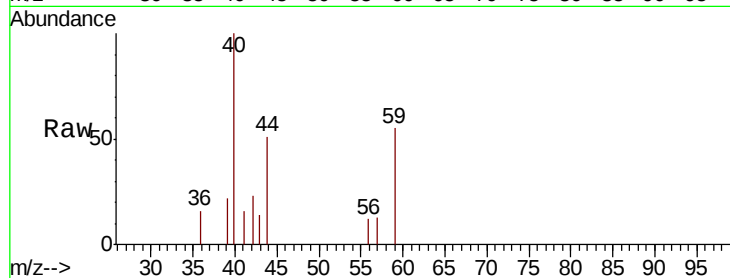
T6-E1-(0)

Tgt Ion: 59 Resp: 650

Ion Ratio Lower Upper

59 100

57 14.6 8.5 12.7#



#16

Acetone

Concen: 18.531 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012038.D

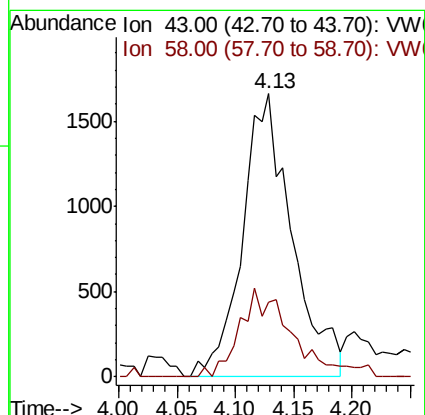
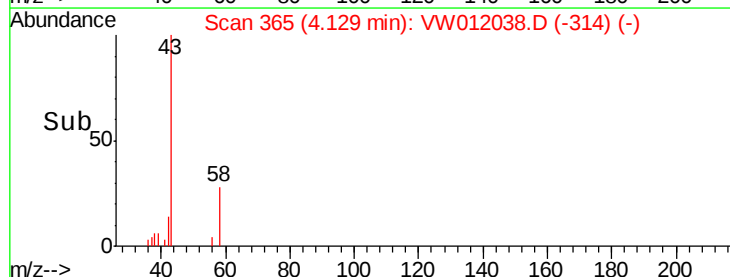
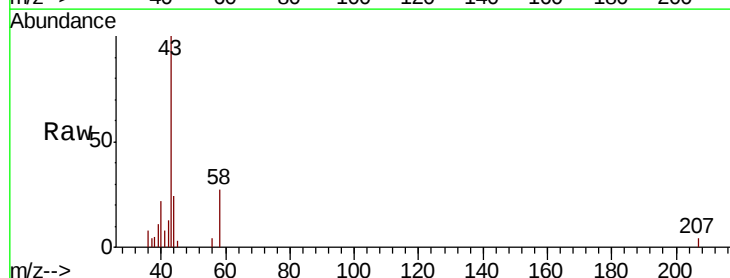
Acq: 20 Aug 2019 19:12

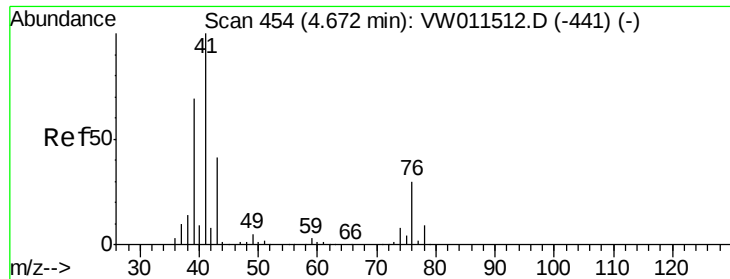
Tgt Ion: 43 Resp: 4921

Ion Ratio Lower Upper

43 100

58 26.6 22.3 33.5

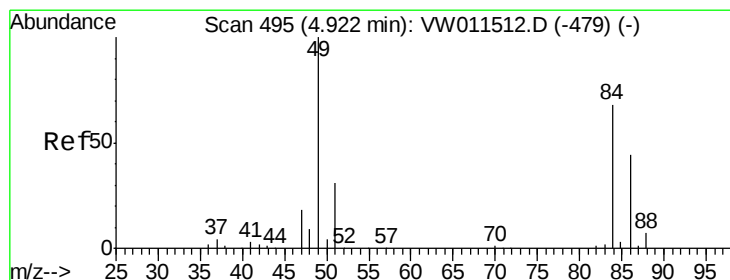
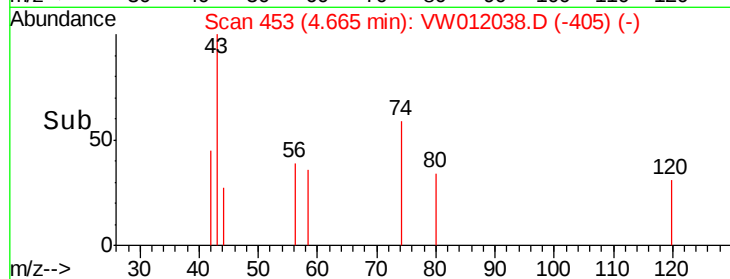
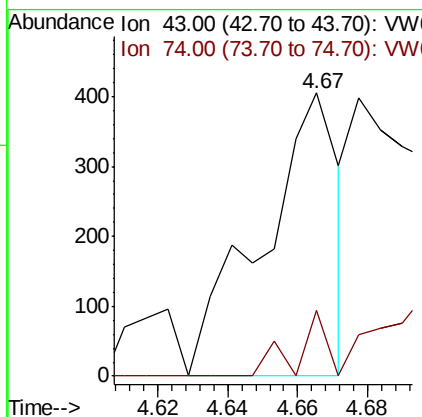
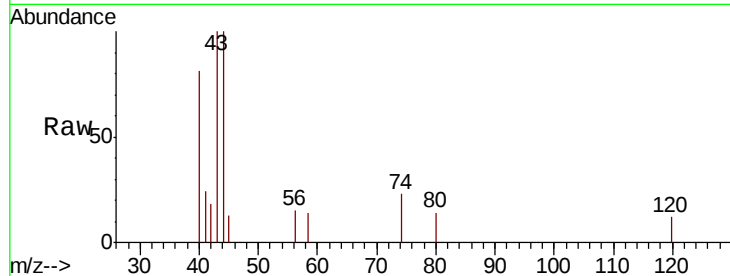




#18
Methyl Acetate
Concen: 1.039 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

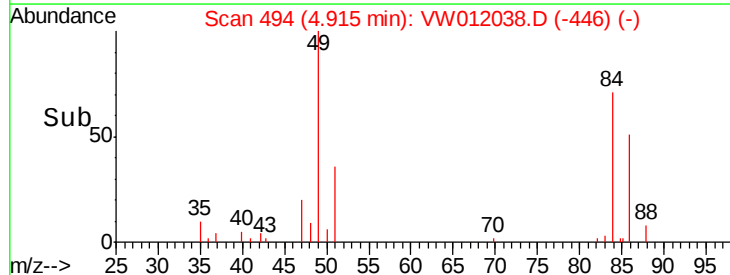
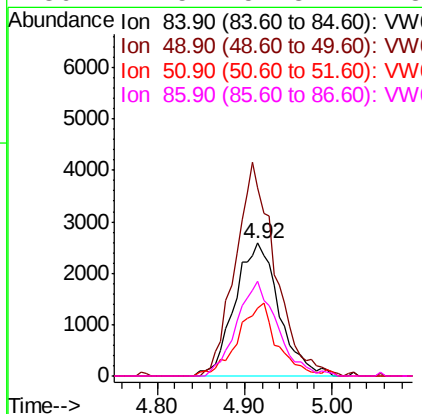
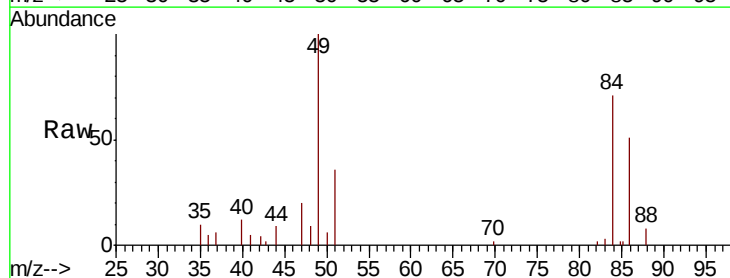
Instrument :
MSVOA_W
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T6-E1-(0)

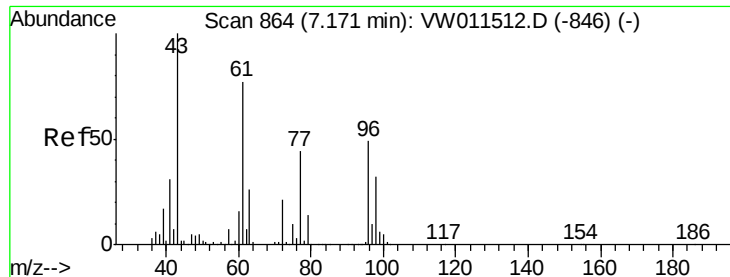
Tgt Ion: 43 Resp: 620
Ion Ratio Lower Upper
43 100
74 8.5 15.9 23.9#



#20
Methylene Chloride
Concen: 9.889 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Tgt Ion: 84 Resp: 9057
Ion Ratio Lower Upper
84 100
49 141.5 117.8 176.6
51 50.8 37.0 55.4
86 71.5 51.8 77.8

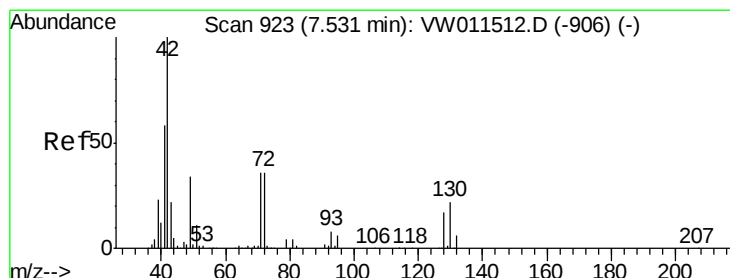
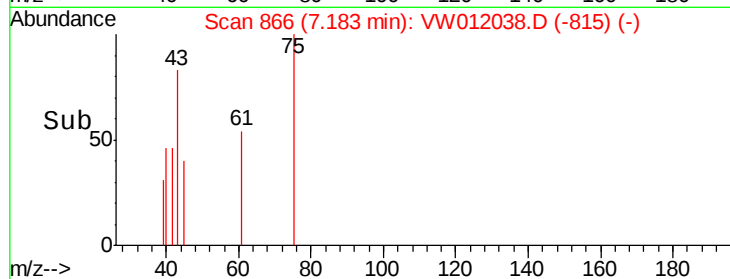
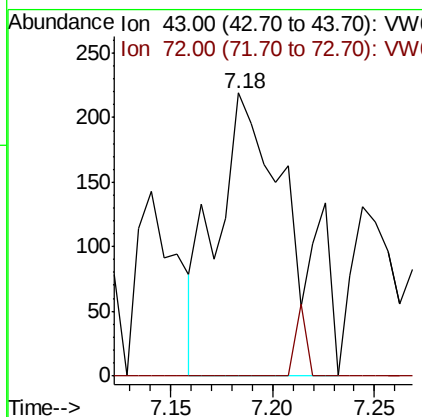
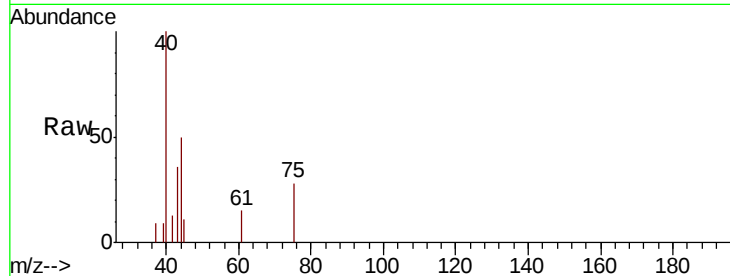




#25
2-Butanone
Concen: 1.609 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

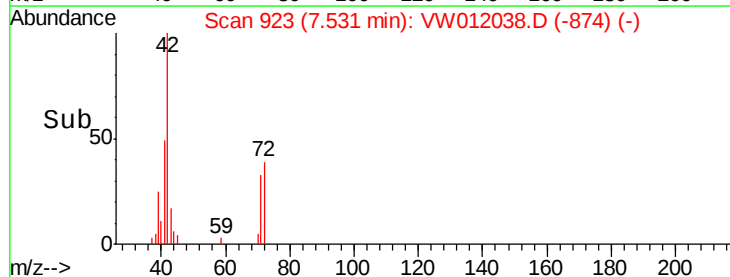
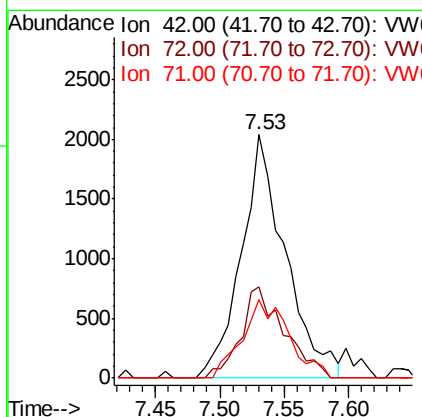
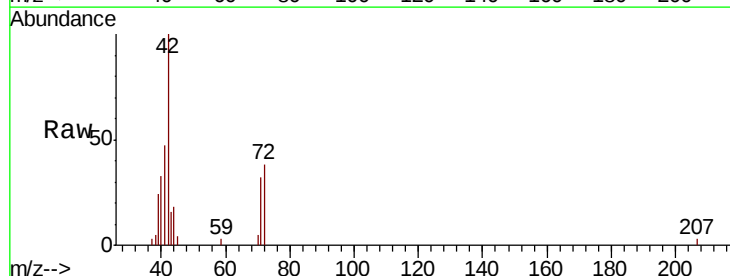
Instrument :
MSVOA_W
ClientSampleId :
T6-E1-(0)

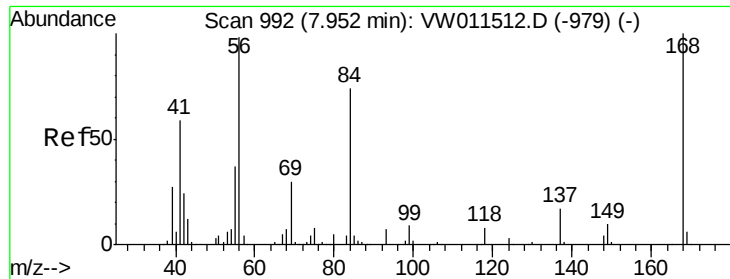
Tgt Ion: 43 Resp: 559
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#



#29
Tetrahydrofuran
Concen: 24.387 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Tgt Ion: 42 Resp: 4844
Ion Ratio Lower Upper
42 100
72 36.7 27.1 40.7
71 34.1 26.2 39.4

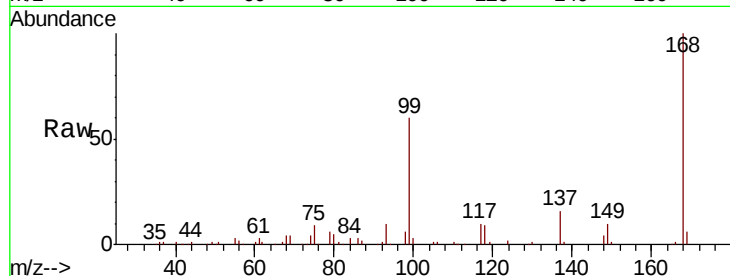




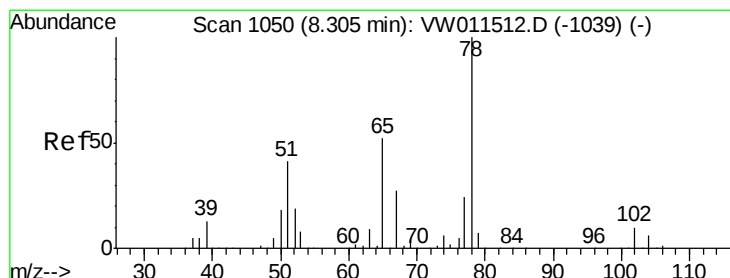
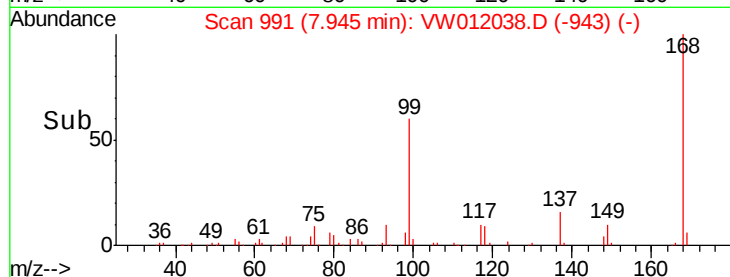
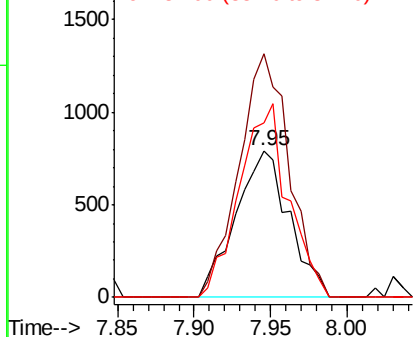
#31
Cyclohexane
Concen: 1.231 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Instrument :
MSVOA_W
ClientSampleId :
T6-E1-(0)

Tgt Ion: 56 Resp: 1922
Ion Ratio Lower Upper
56 100
69 166.2 24.3 36.5#
84 119.3 60.4 90.6#

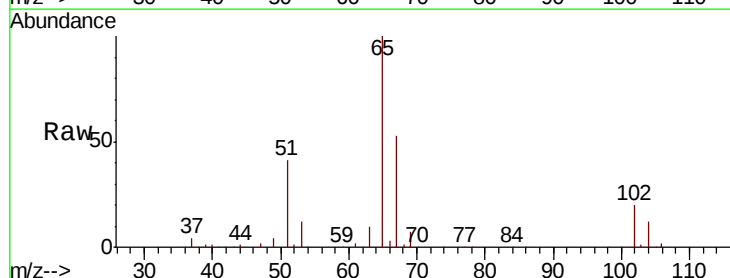


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

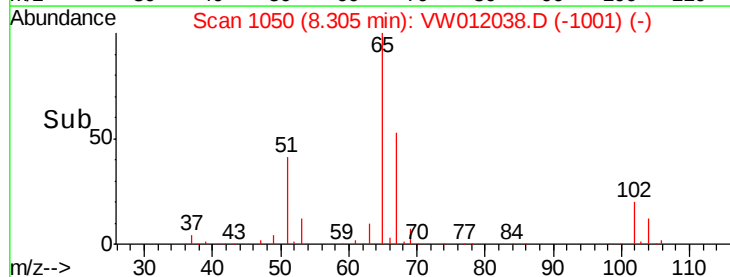
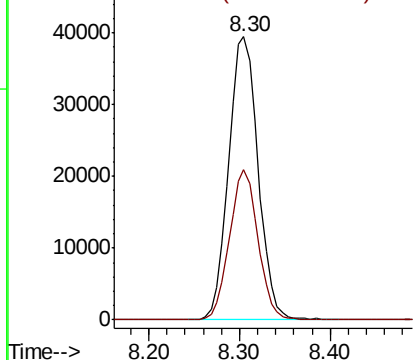


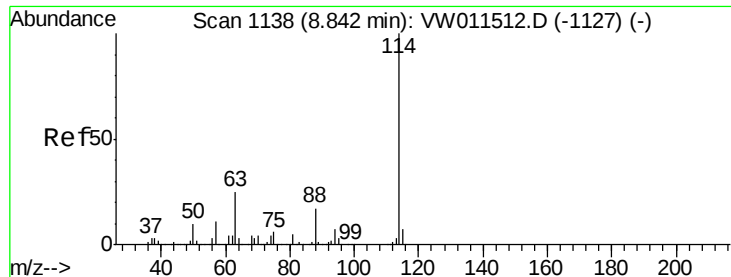
#33
1,2-Dichloroethane-d4
Concen: 106.669 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Tgt Ion: 65 Resp: 89051
Ion Ratio Lower Upper
65 100
67 51.4 0.0 105.2



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

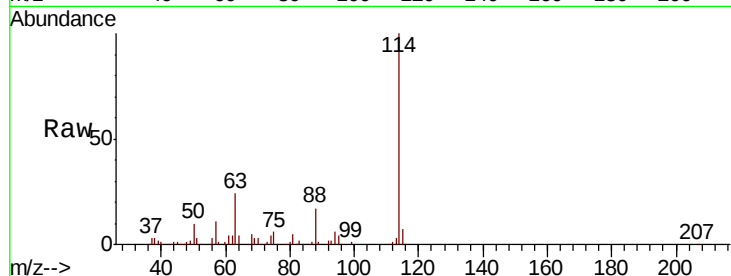




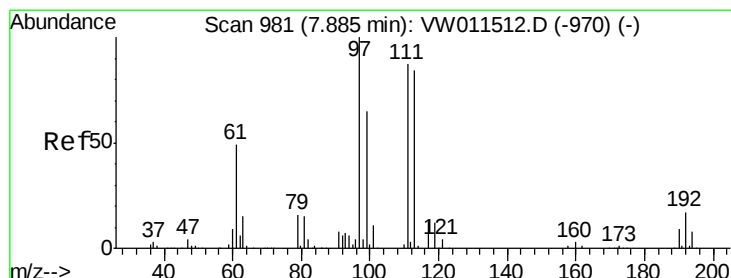
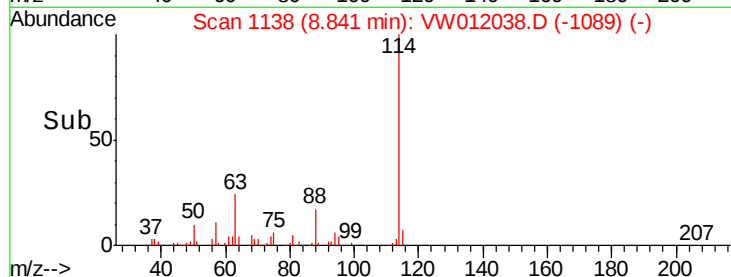
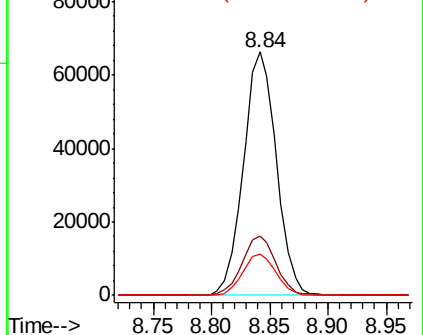
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012038.D
 Acq: 20 Aug 2019 19:12

Instrument :
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 T6-E1-(0)

Tgt Ion:114 Resp: 130596
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 49.2
 88 17.0 0.0 33.8

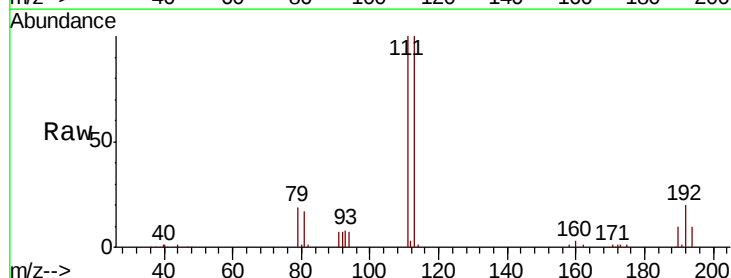


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

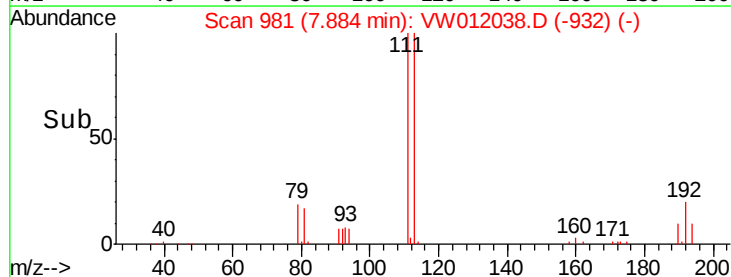
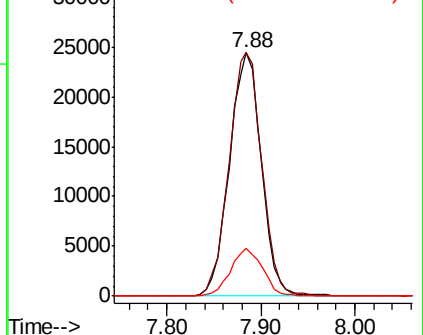


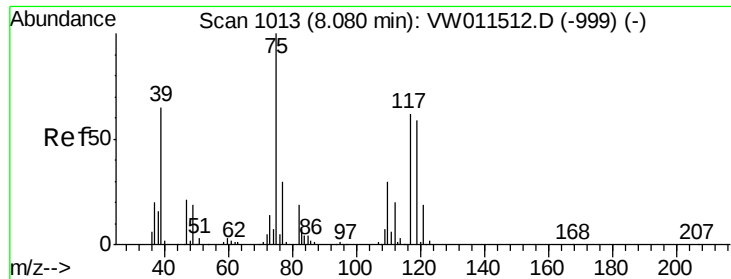
#35
 Dibromofluoromethane
 Concen: 78.259 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012038.D
 Acq: 20 Aug 2019 19:12

Tgt Ion:113 Resp: 57338
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.7 124.1
 192 19.8 16.1 24.1



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

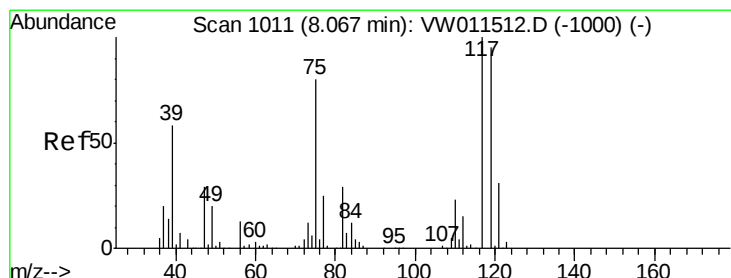
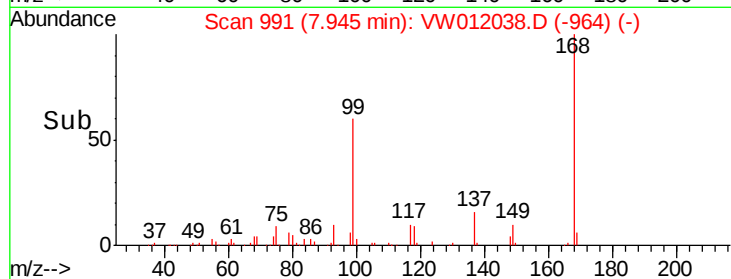
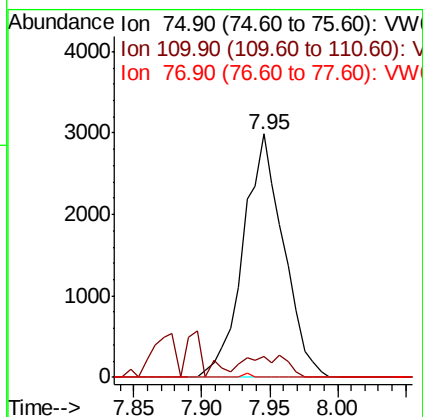
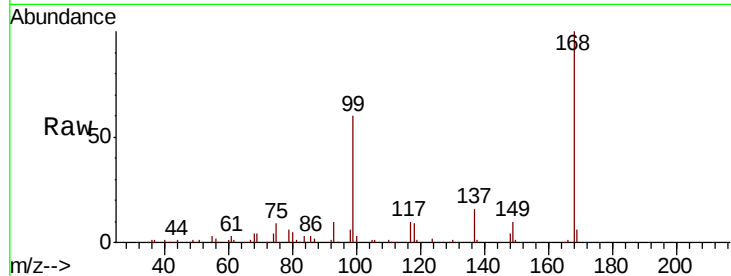




#36
 1,1-Dichloropropene
 Concen: 4.544 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012038.D
 Acq: 20 Aug 2019 19:12

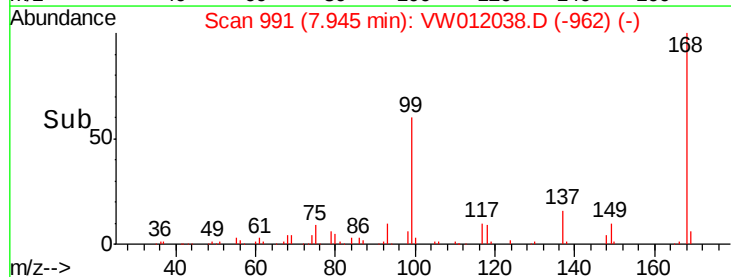
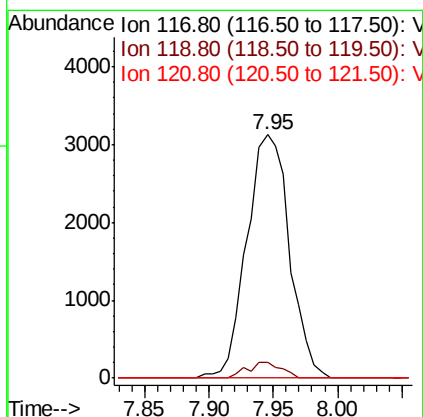
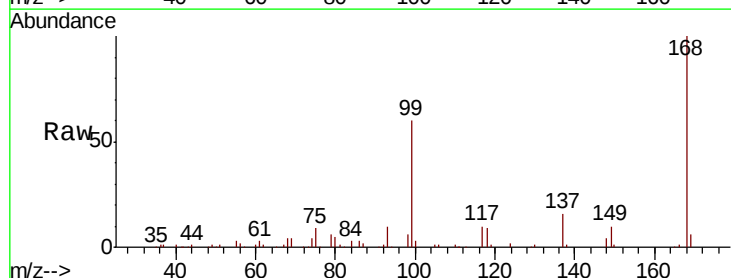
Instrument :
 MSVOA_W
 ClientSampleId :
 T6-E1-(0)

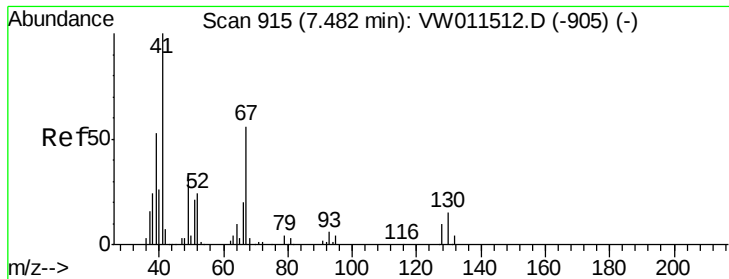
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	15.6	46.8#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 6.164 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012038.D
 Acq: 20 Aug 2019 19:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	75.8	113.6#
121	0.0	24.7	37.1#





#41

Methacrylonitrile

Concen: 7.028 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

Instrument :

MSVOA_W

ClientSampleId :

T6-E1-(0)

Tgt Ion: 41 Resp: 3282

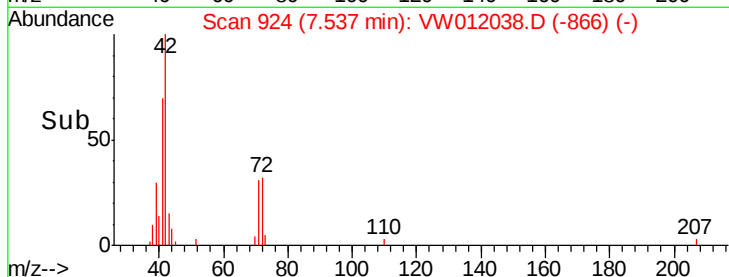
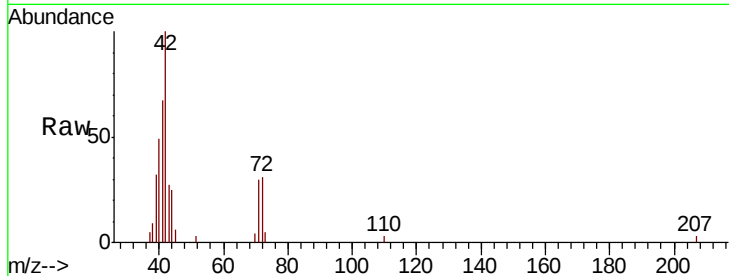
Ion Ratio Lower Upper

41 100

39 42.7 43.0 64.4#

67 0.6 47.5 71.3#

52 0.0 21.0 31.6#

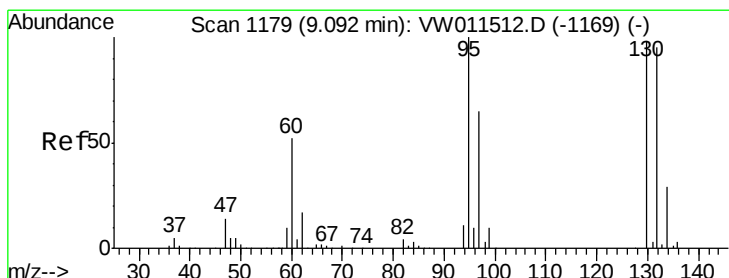
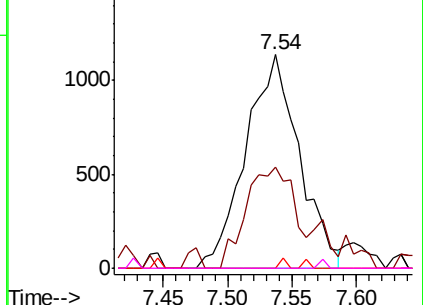


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#44

Trichloroethene

Concen: 2.005 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW012038.D

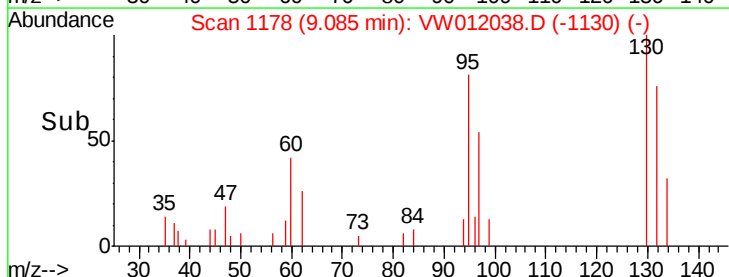
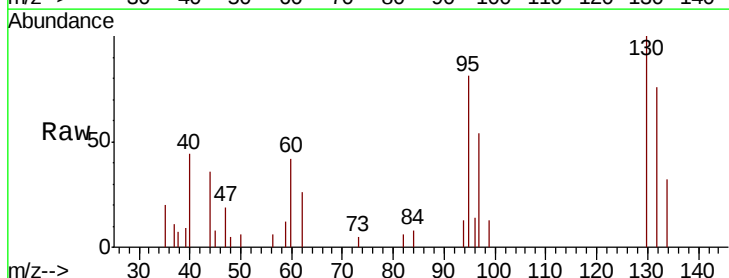
Acq: 20 Aug 2019 19:12

Tgt Ion: 130 Resp: 1833

Ion Ratio Lower Upper

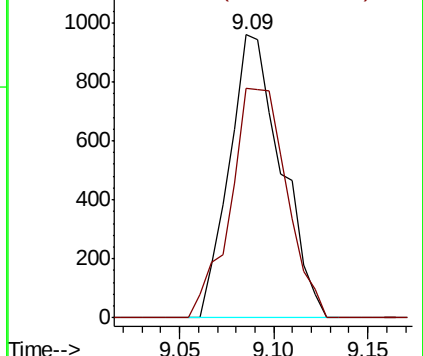
130 100

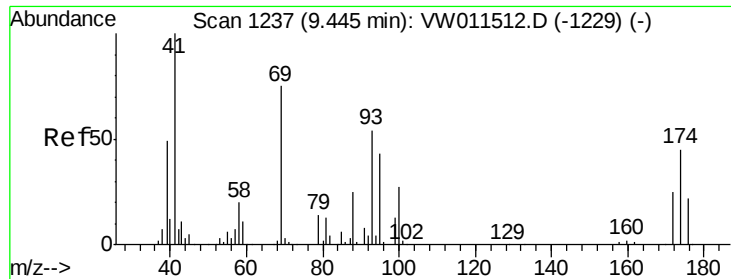
95 81.3 0.0 204.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

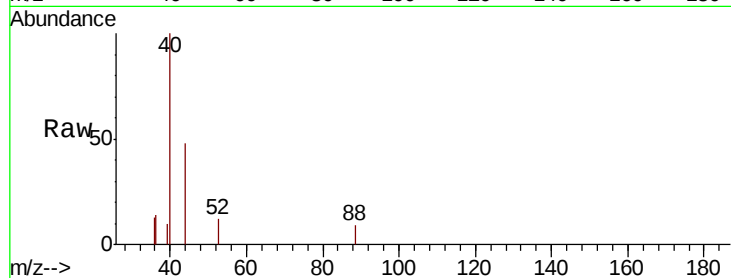




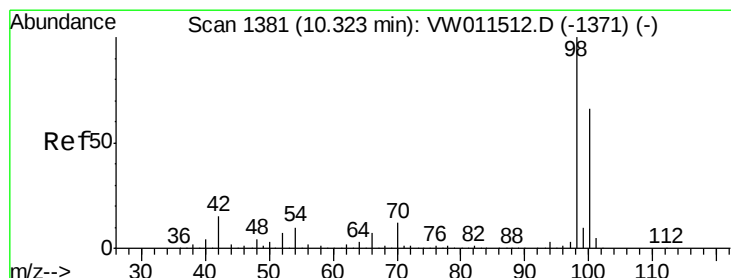
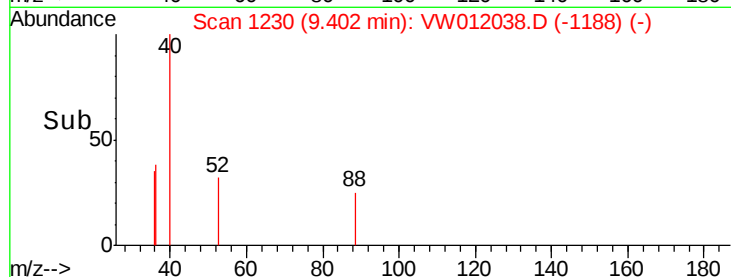
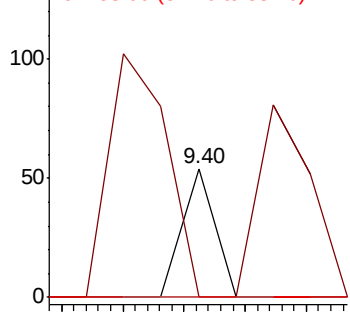
#49
1,4-Dioxane
Concen: 2.974 ug/l
RT: 9.40 min Scan# 1230
Delta R.T. -0.04 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Instrument :
MSVOA_W
ClientSampled :
T6-E1-(0)

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 335.0 34.0 51.0#
58 0.0 69.7 104.5#

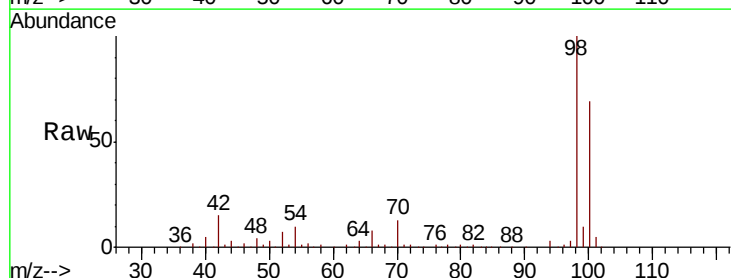


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

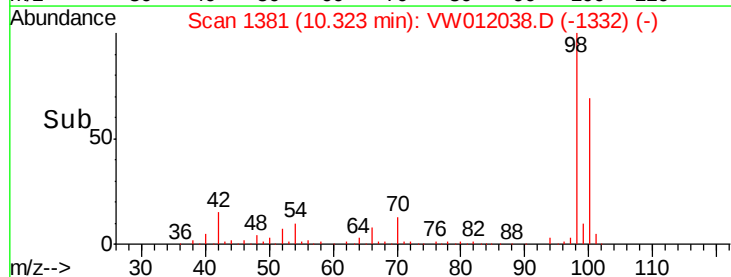
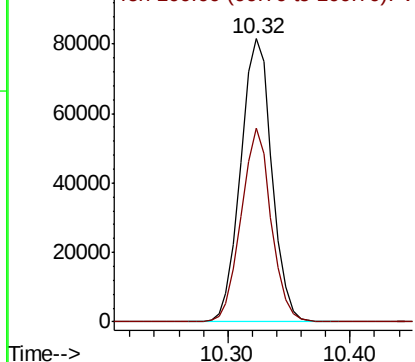


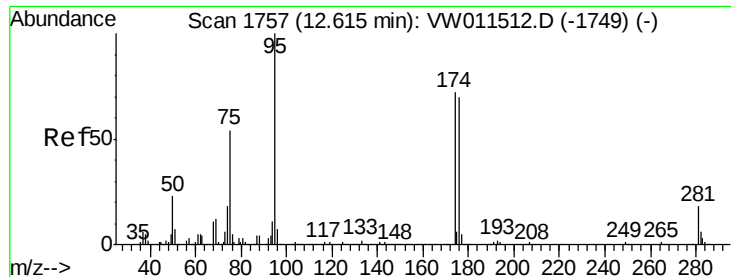
#50
Toluene-d8
Concen: 48.120 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Tgt Ion: 98 Resp: 144349
Ion Ratio Lower Upper
98 100
100 65.9 52.7 79.1



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





#62

4-Bromofluorobenzene

Concen: 37.621 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

Instrument :

MSVOA_W

ClientSampleId :

T6-E1-(0)

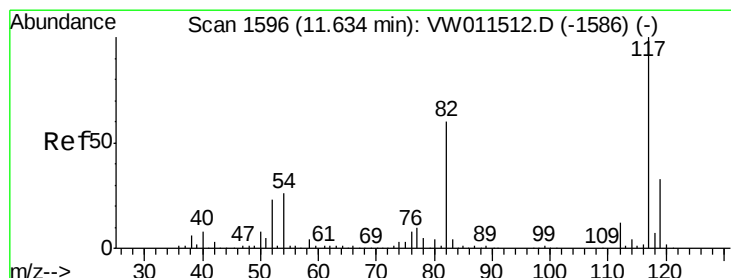
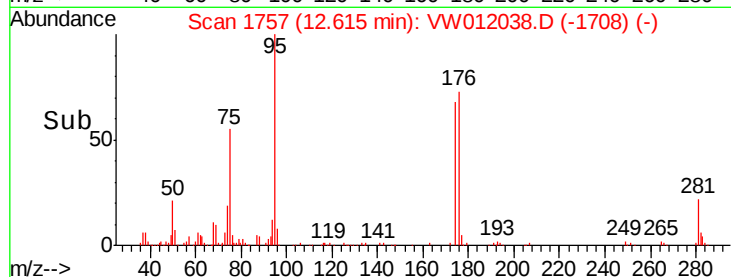
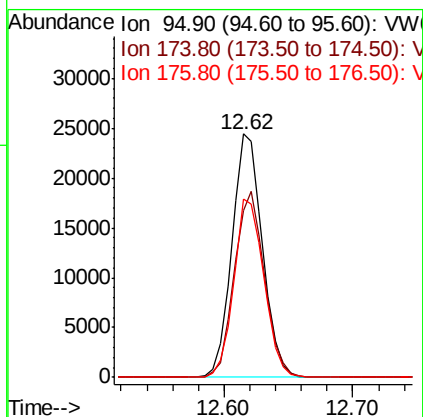
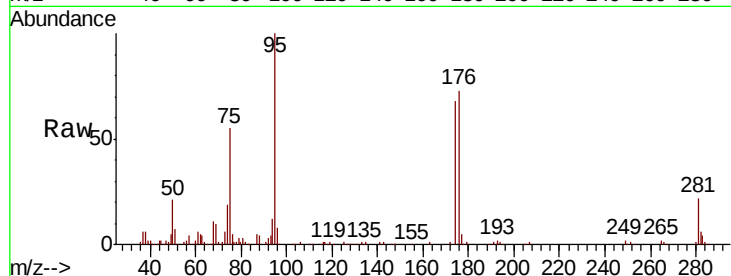
Tgt Ion: 95 Resp: 40235

Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.2

176 72.3 0.0 144.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

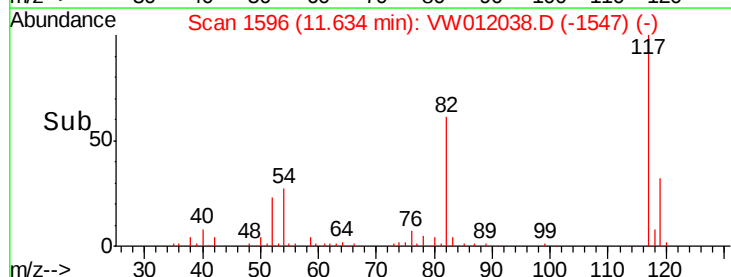
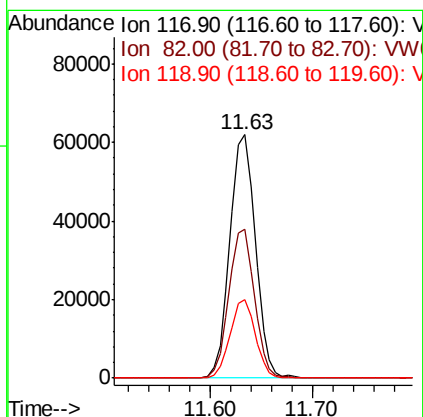
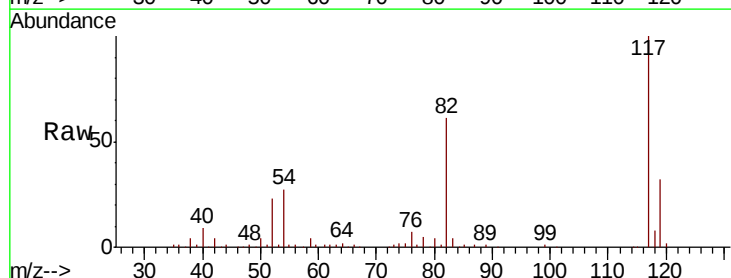
Tgt Ion: 117 Resp: 107758

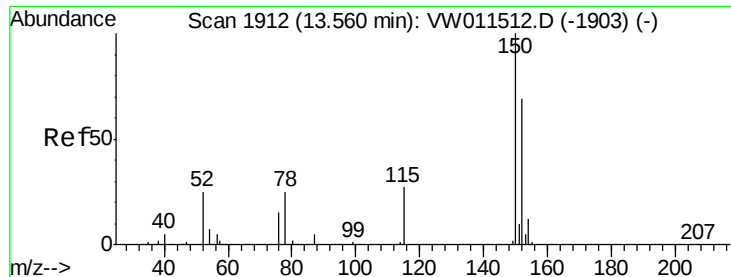
Ion Ratio Lower Upper

117 100

82 61.2 47.9 71.9

119 32.5 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

Instrument :

MSVOA_W

ClientSampleId :

T6-E1-(0)

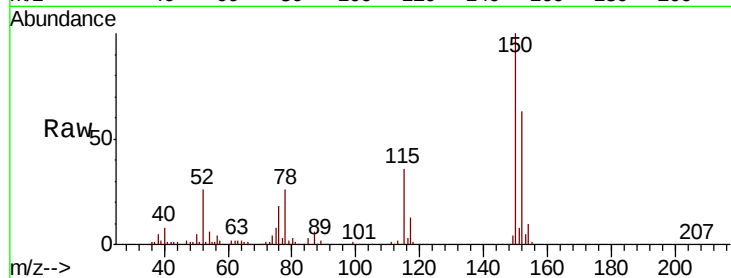
Tgt Ion:152 Resp: 29379

Ion Ratio Lower Upper

152 100

115 60.1 30.5 91.5

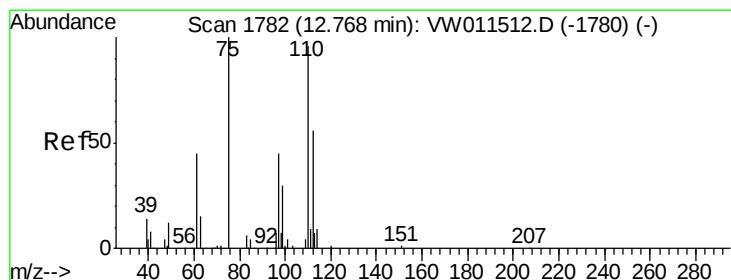
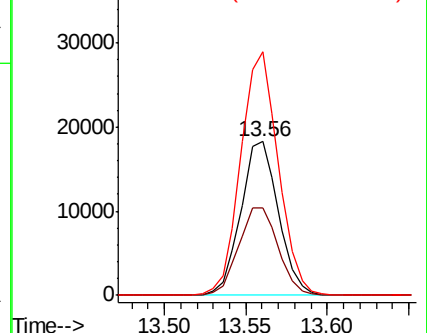
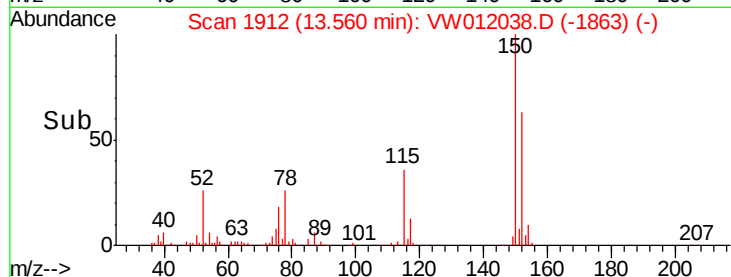
150 158.2 0.0 352.6



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: 68.577 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012038.D

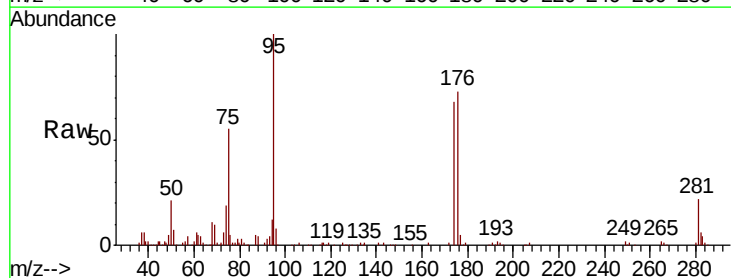
Acq: 20 Aug 2019 19:12

Tgt Ion: 75 Resp: 21318

Ion Ratio Lower Upper

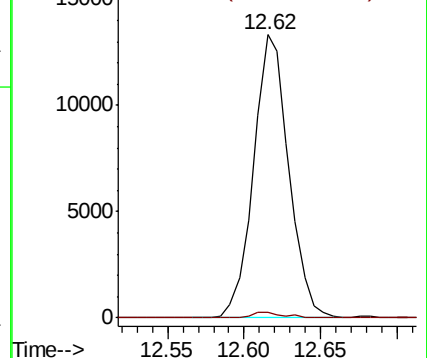
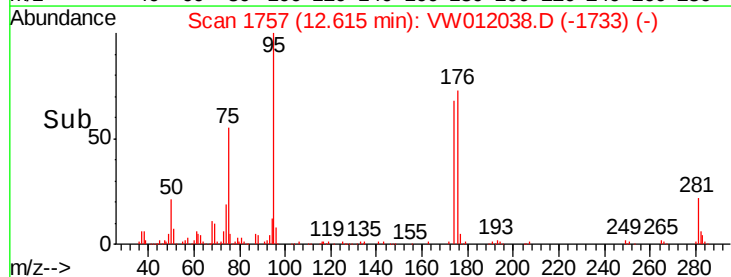
75 100

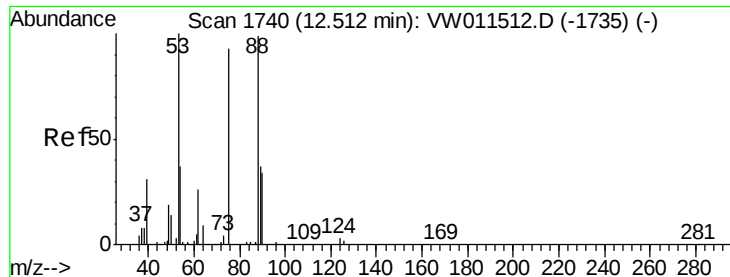
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 158.046 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

Instrument :

MSVOA_W

ClientSampleId :

T6-E1-(0)

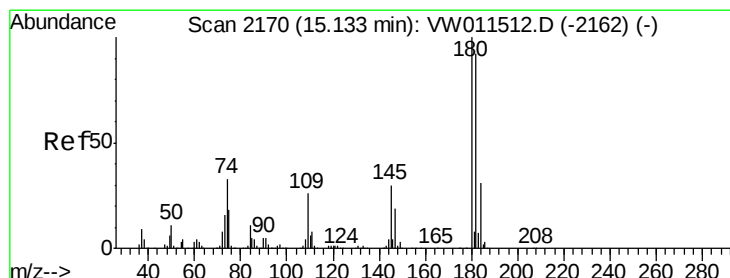
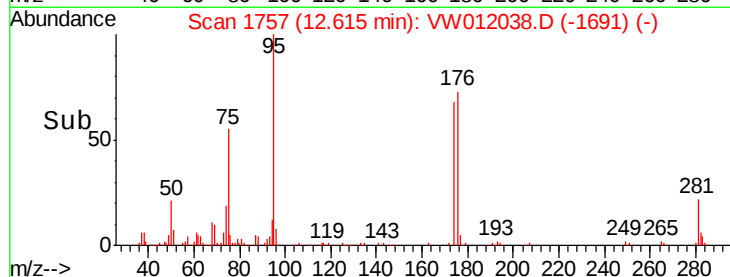
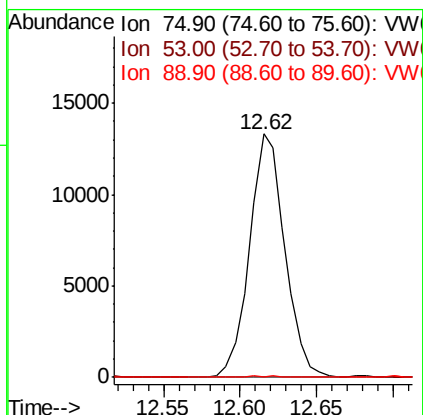
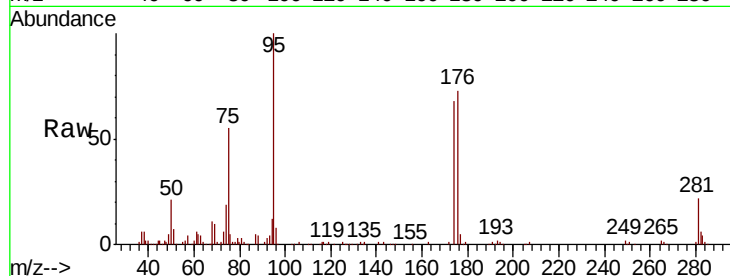
Tgt Ion: 75 Resp: 21318

Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

89 0.3 35.3 52.9#



#93

1,2,4-Trichlorobenzene

Concen: 1.056 ug/l

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW012038.D

Acq: 20 Aug 2019 19:12

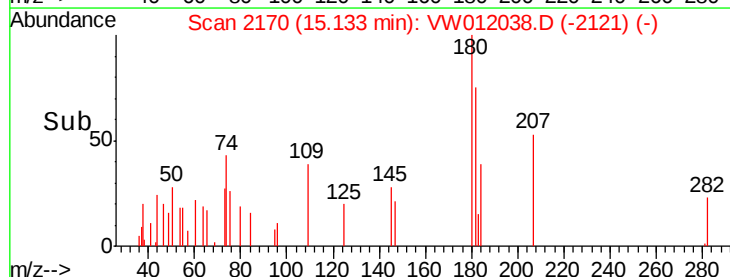
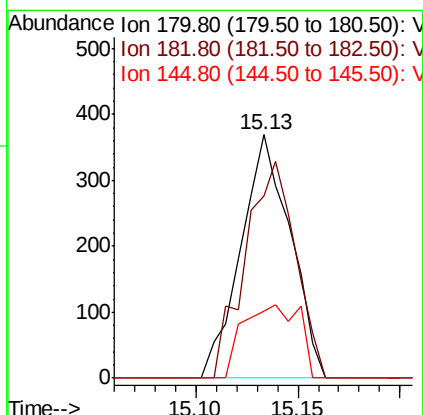
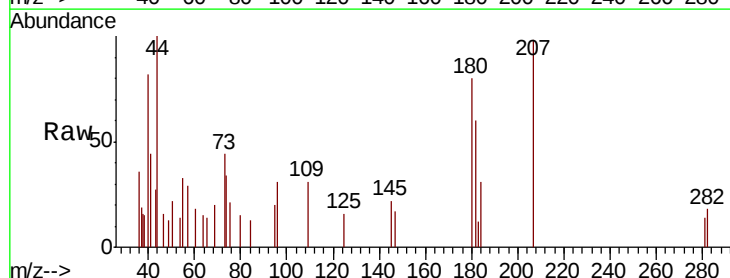
Tgt Ion: 180 Resp: 625

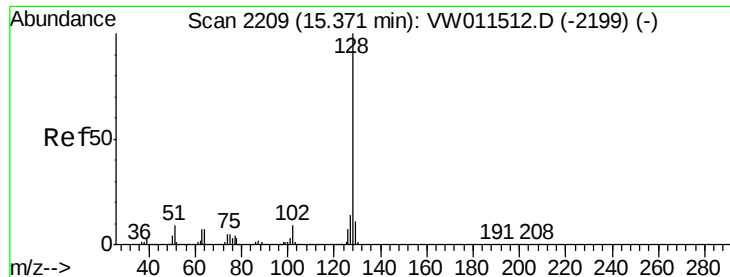
Ion Ratio Lower Upper

180 100

182 90.2 47.4 142.2

145 34.1 15.4 46.1

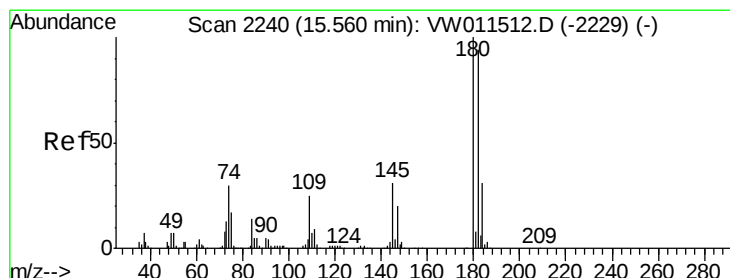
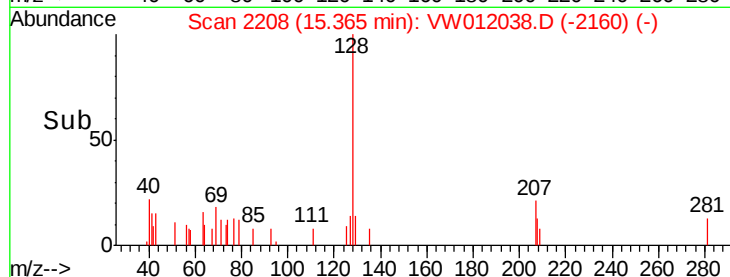
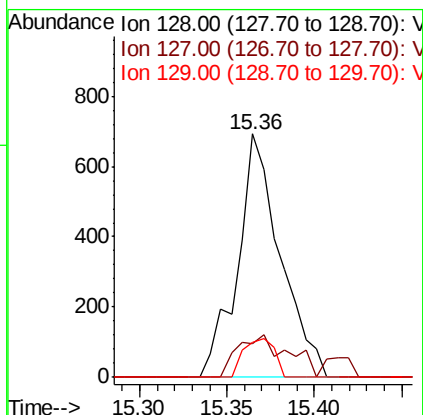
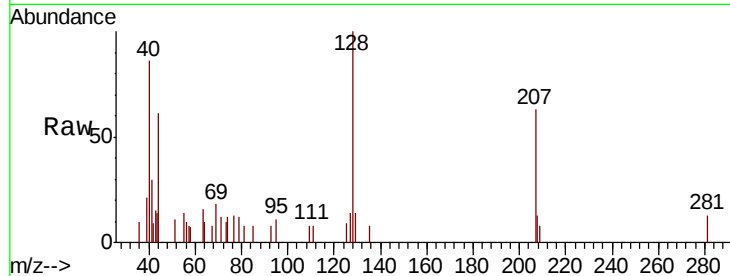




#95
Naphthalene
Concen: 3.038 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Instrument :
MSVOA_W
ClientSampleId :
T6-E1-(0)

Tgt Ion:128 Resp: 1176
Ion Ratio Lower Upper
128 100
127 20.5 10.6 16.0#
129 11.6 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 1.331 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.01 min
Lab File: VW012038.D
Acq: 20 Aug 2019 19:12

Tgt Ion:180 Resp: 691
Ion Ratio Lower Upper
180 100
182 90.6 47.4 142.2
145 36.3 15.9 47.7

