

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081219\
 Data File : VW011858.D
 Acq On : 12 Aug 2019 17:49
 Operator : SY/VA
 Sample : K4223-04RE
 Misc : 4.83G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 13 07:47:33 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	91385	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	171584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	70554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	40356	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	84365	80.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	160.80%	
35) Dibromofluoromethane	7.88	113	12617	13.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	26.22%	
50) Toluene-d8	10.32	98	71497	18.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.28%	
62) 4-Bromofluorobenzene	12.62	95	44380	31.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.16%	

Target Compounds

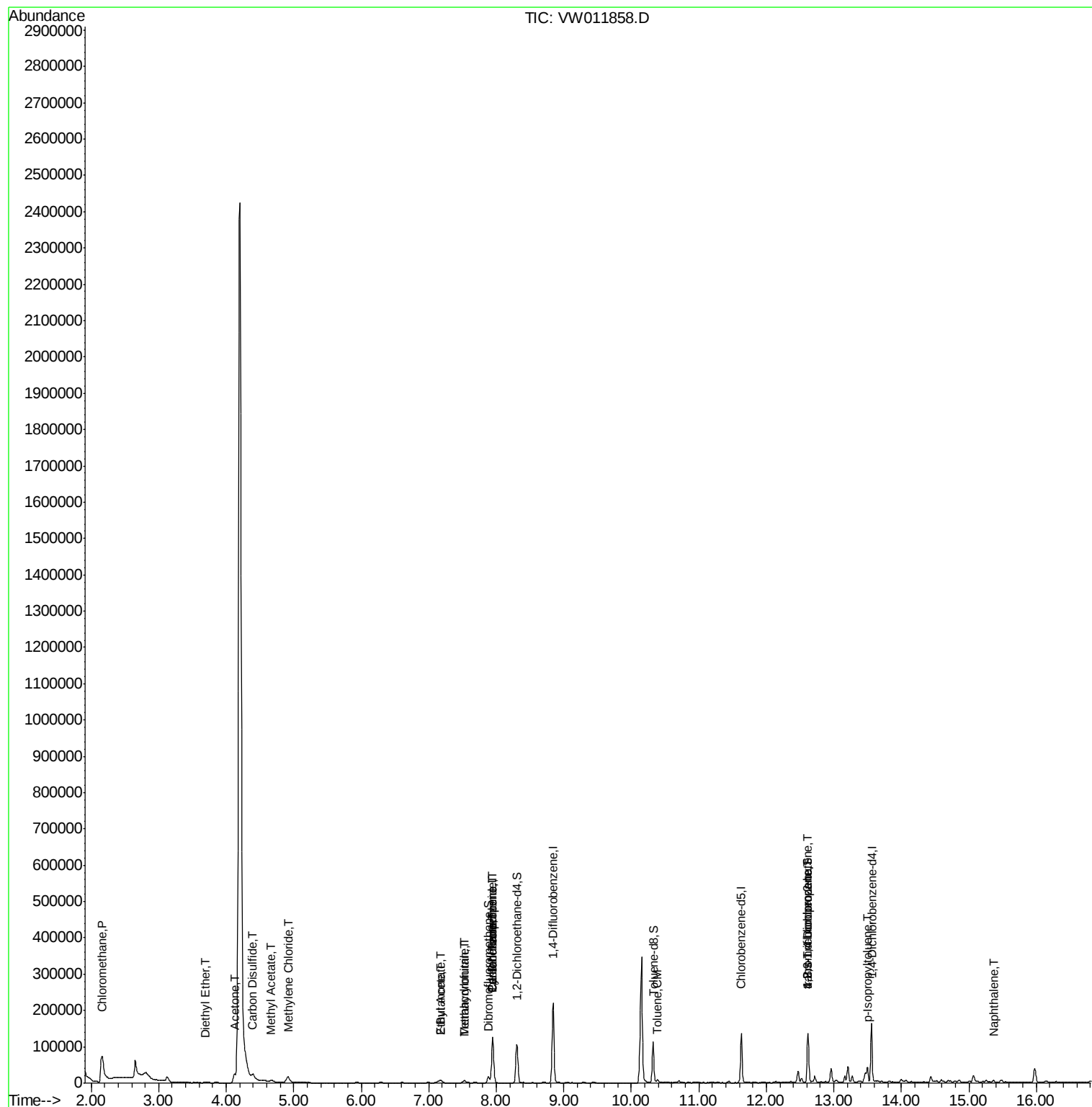
						Qvalue
3) Chloromethane	2.17	50	4156	4.706	ug/l #	43
8) Diethyl Ether	3.68	74	598	1.110	ug/l	68
11) Tert butyl alcohol	5.17	59	154	Below Cal	#	72
16) Acetone	4.12	43	43768	131.122	ug/l	98
17) Carbon Disulfide	4.40	76	22495	7.552	ug/l	99
18) Methyl Acetate	4.67	43	10225	13.636	ug/l	98
20) Methylene Chloride	4.92	84	11248	9.771	ug/l	92
25) 2-Butanone	7.18	43	13436	30.761	ug/l	100
29) Tetrahydrofuran	7.53	42	4829	19.342	ug/l	98
31) Cyclohexane	7.94	56	2386	1.216	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	8038	4.505	ug/l #	52
37) Ethyl Acetate	7.18	43	13436	13.089	ug/l #	74
38) Carbon Tetrachloride	7.95	117	9612	6.293	ug/l #	17
41) Methacrylonitrile	7.52	41	3256	5.306	ug/l #	52
52) Toluene	10.39	92	3316	1.099	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	23724	55.558	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	23724	128.042	ug/l #	6
86) p-Isopropyltoluene	13.50	119	21307	7.799	ug/l	87
95) Naphthalene	15.37	128	3383	4.102	ug/l	96

(#) = 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# 991

Delta R.T. -0.00 min

Lab File: VW011858.D

Acq: 12 Aug 2019 17:49

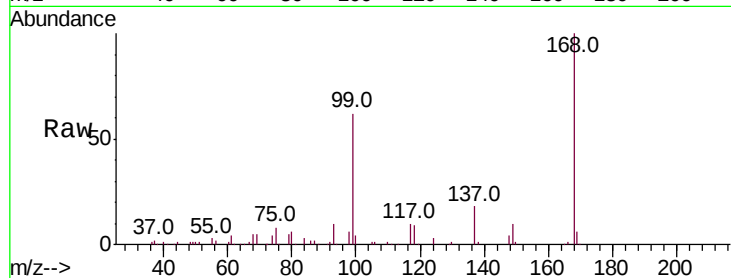
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 91385

Ion Ratio Lower Upper

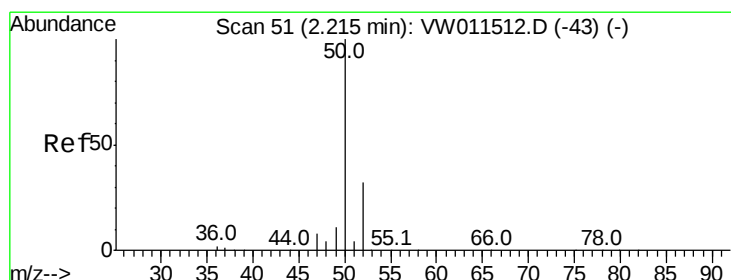
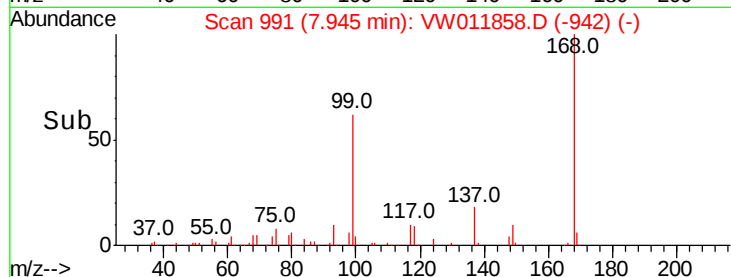
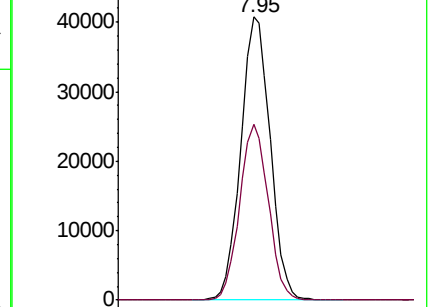
168 100

99 62.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 4.706 ug/l

RT: 2.17 min Scan# 44

Delta R.T. -0.04 min

Lab File: VW011858.D

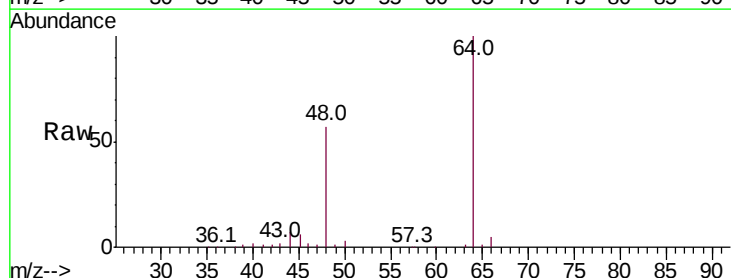
Acq: 12 Aug 2019 17:49

Tgt Ion: 50 Resp: 4156

Ion Ratio Lower Upper

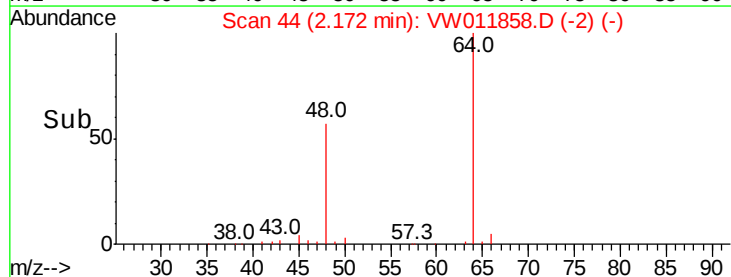
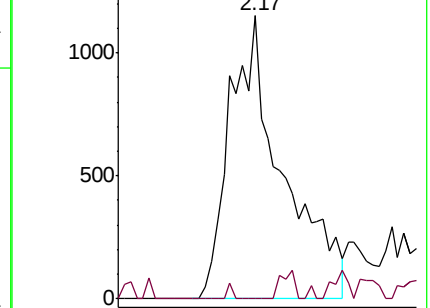
50 100

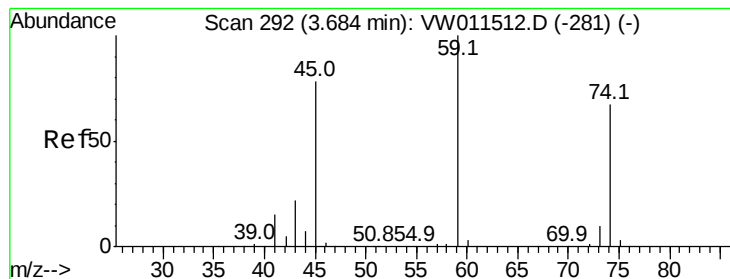
52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#8

Diethyl Ether

Concen: 1.110 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.00 min

Lab File: VW011858.D

Acq: 12 Aug 2019 17:49

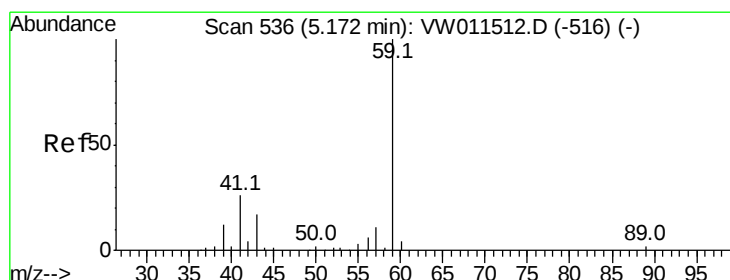
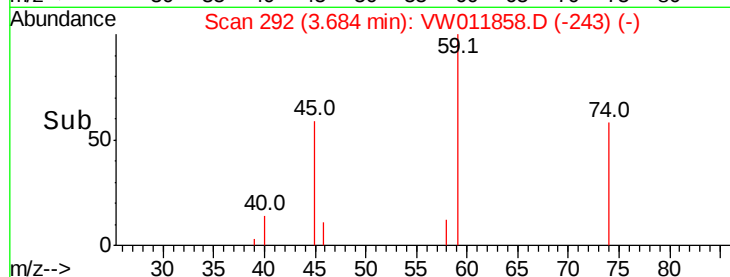
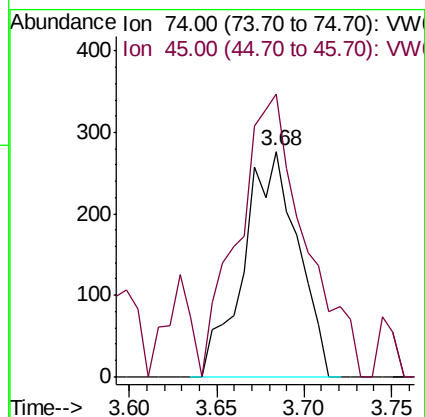
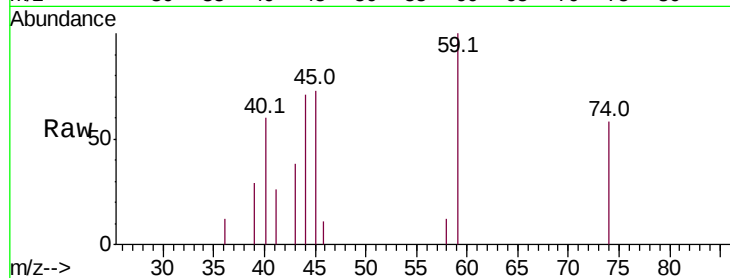
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 74 Resp: 598

Ion Ratio Lower Upper

74 100

45 154.3 59.6 178.8



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW011858.D

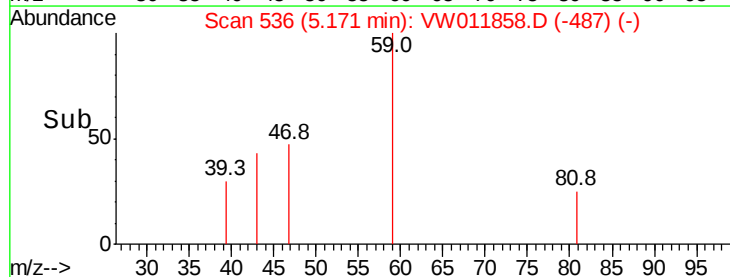
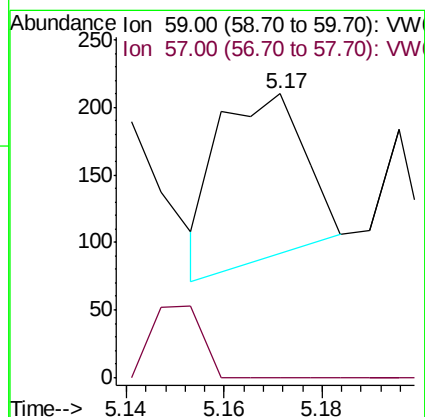
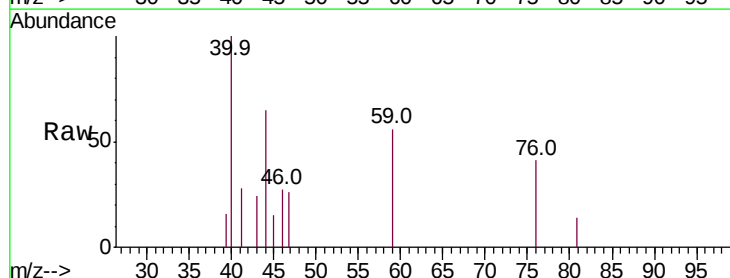
Acq: 12 Aug 2019 17:49

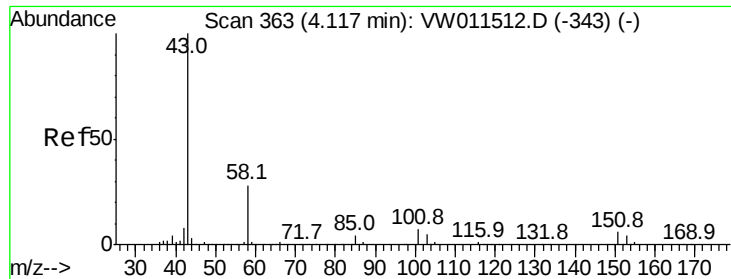
Tgt Ion: 59 Resp: 154

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#16

Acetone

Concen: 131.122 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011858.D

Acq: 12 Aug 2019 17:49

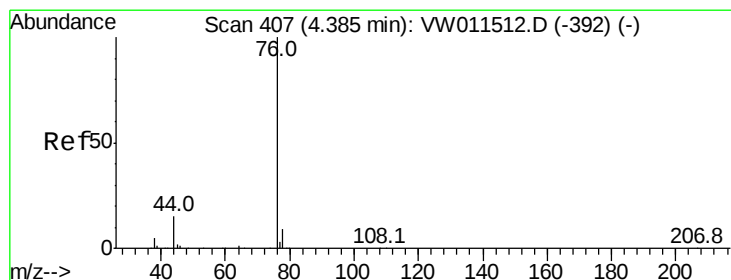
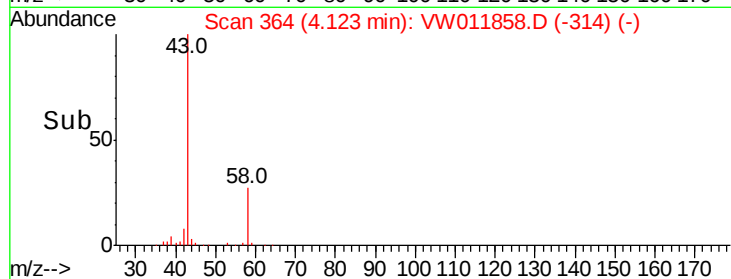
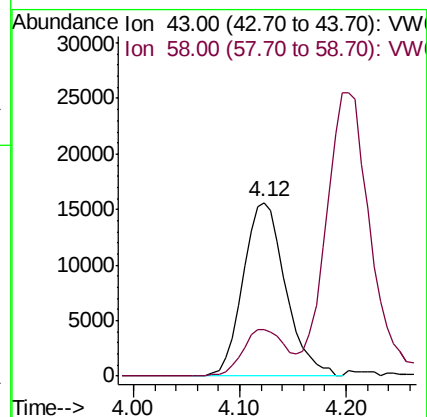
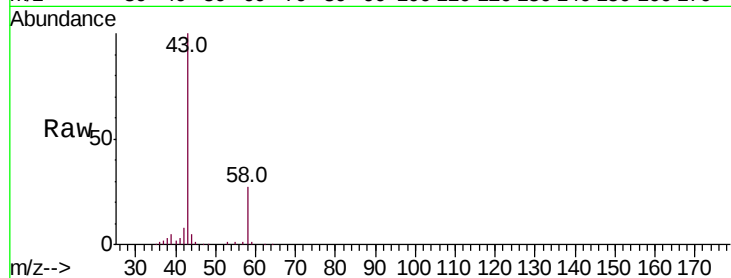
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 43768

Ion Ratio Lower Upper

43 100

58 26.6 22.3 33.5



#17

Carbon Disulfide

Concen: 7.552 ug/l

RT: 4.40 min Scan# 409

Delta R.T. 0.01 min

Lab File: VW011858.D

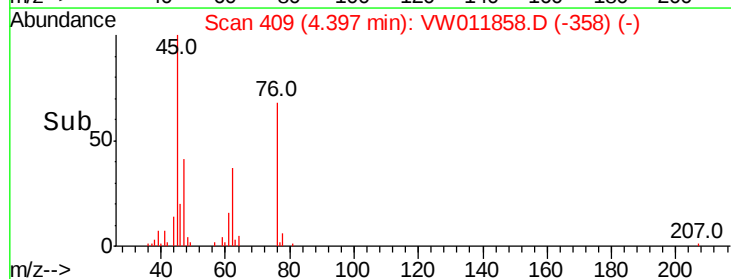
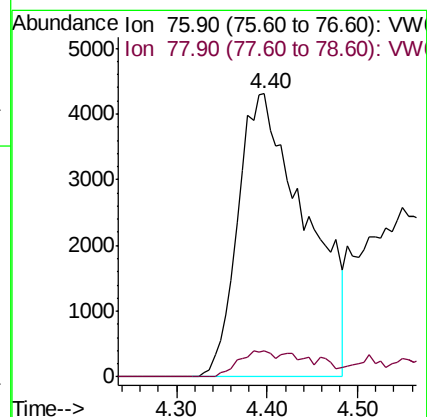
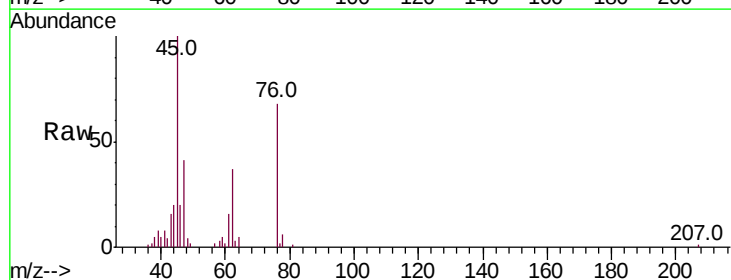
Acq: 12 Aug 2019 17:49

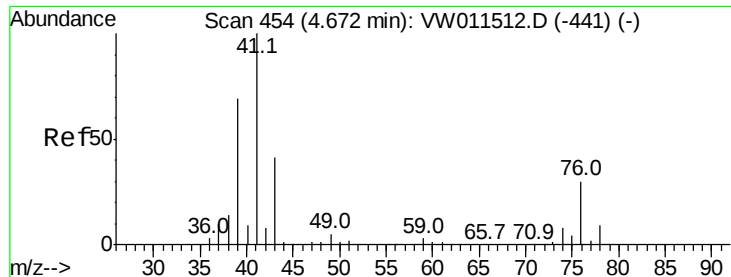
Tgt Ion: 76 Resp: 22495

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7

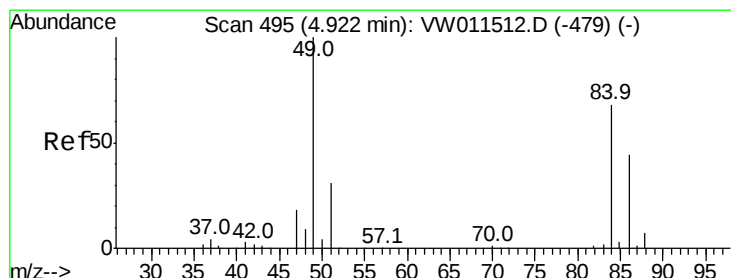
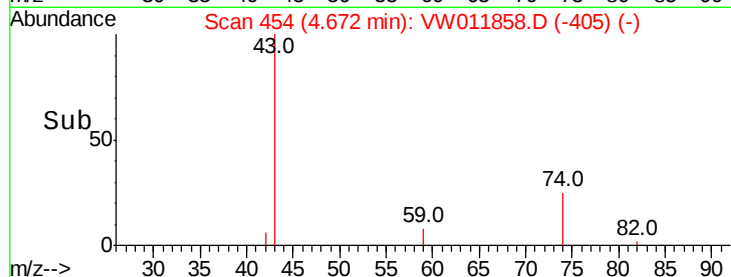
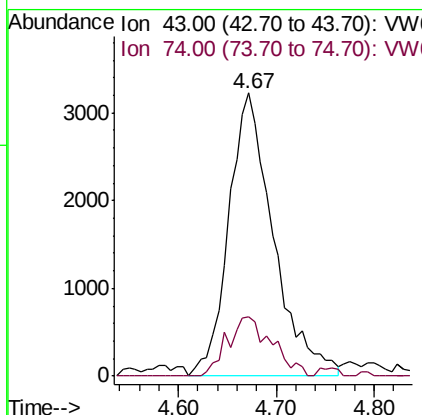
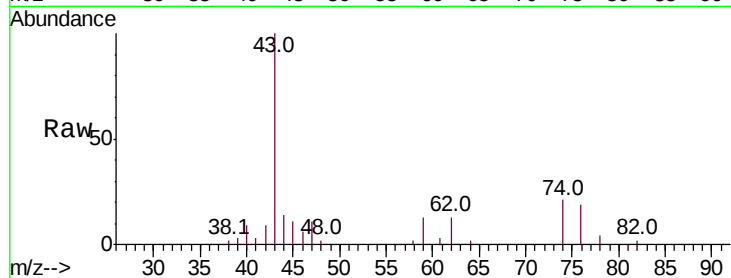




#18
Methyl Acetate
Concen: 13.636 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.00 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

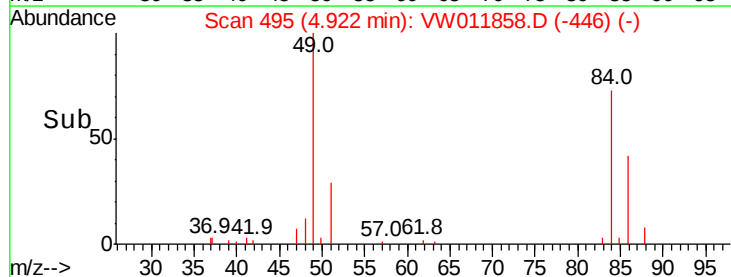
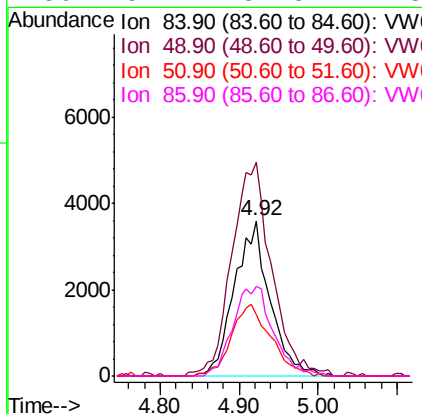
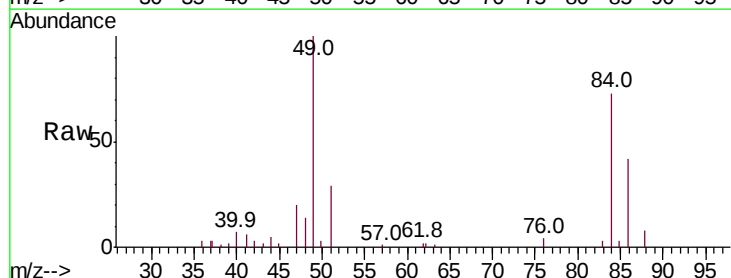
Instrument :
MSVOA_W
ClientSampled :

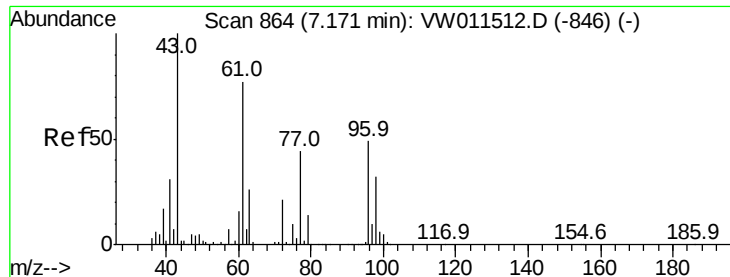
Tot Ion: 43 Resp: 10225
Ion Ratio Lower Upper
43 100
74 21.0 15.9 23.9



#20
Methylene Chloride
Concen: 9.771 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

Tgt Ion: 84 Resp: 11248
Ion Ratio Lower Upper
84 100
49 137.7 117.8 176.6
51 39.8 37.0 55.4
86 57.4 51.8 77.8





#25

2-Butanone

Concen: 30.761 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW011858.D

Acq: 12 Aug 2019 17:49

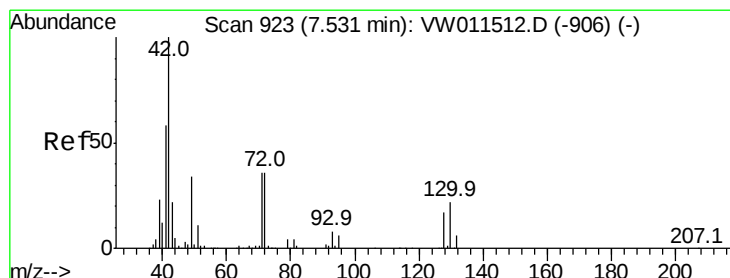
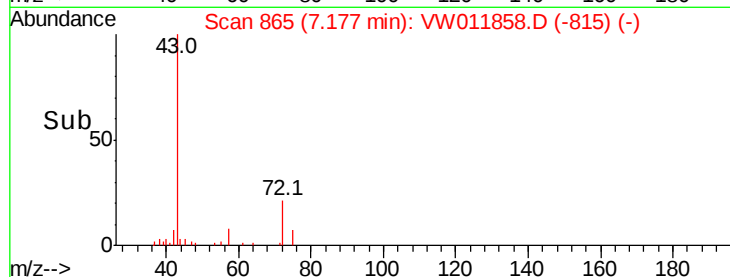
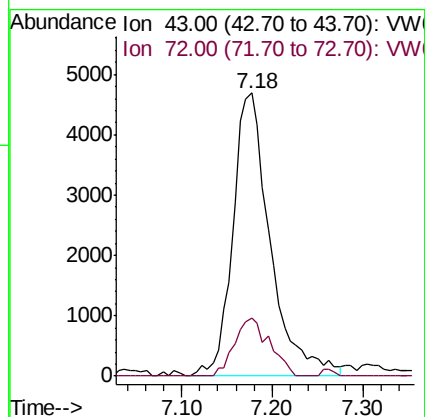
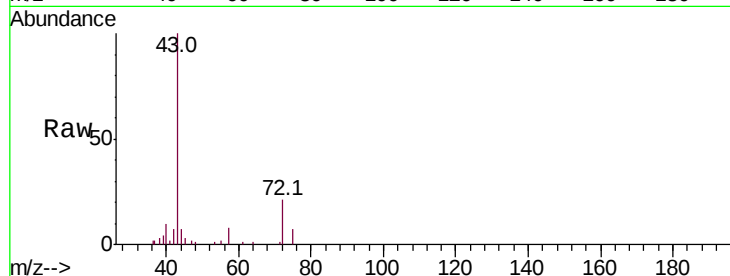
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 13436

Ion Ratio Lower Upper

43 100

72 20.5 16.6 24.8



#29

Tetrahydrofuran

Concen: 19.342 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW011858.D

Acq: 12 Aug 2019 17:49

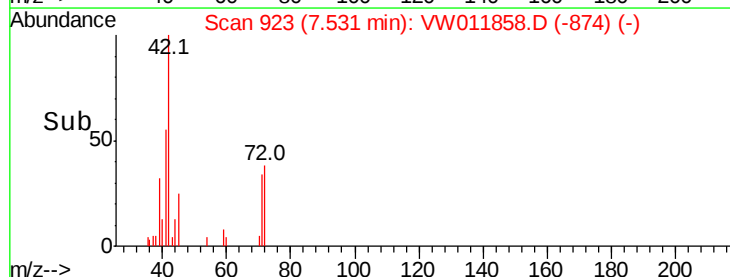
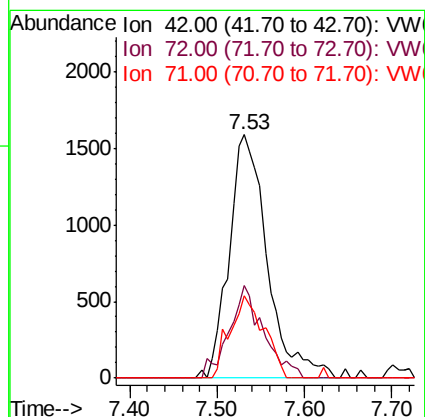
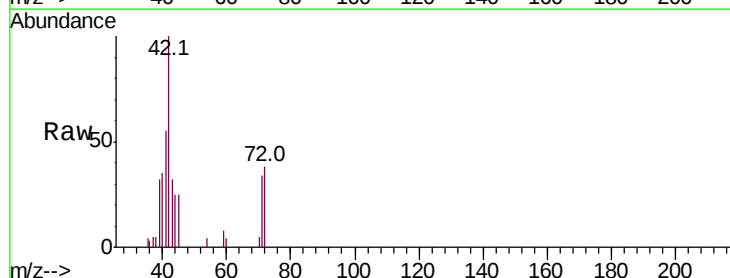
Tgt Ion: 42 Resp: 4829

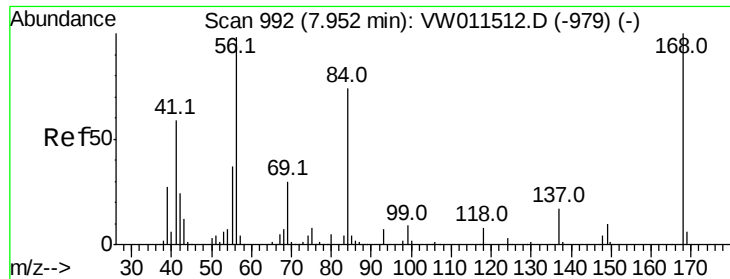
Ion Ratio Lower Upper

42 100

72 34.1 27.1 40.7

71 30.2 26.2 39.4

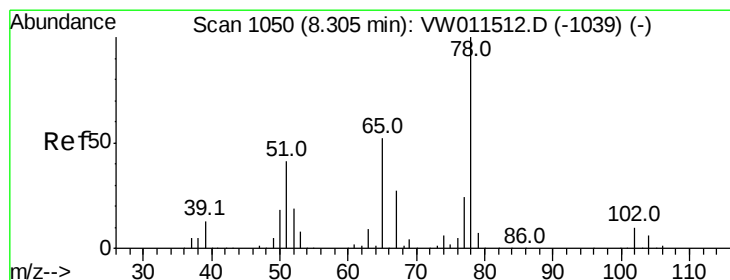
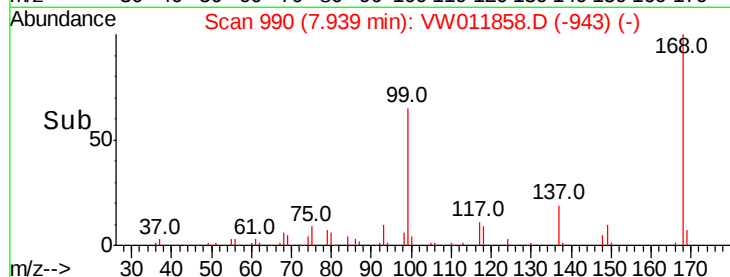
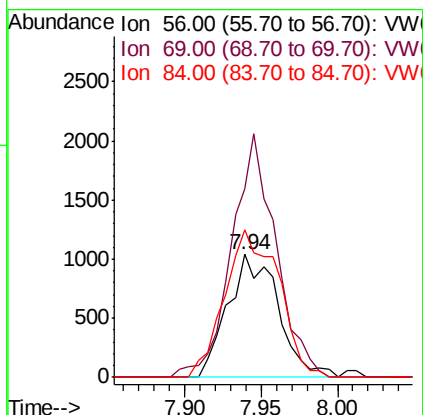
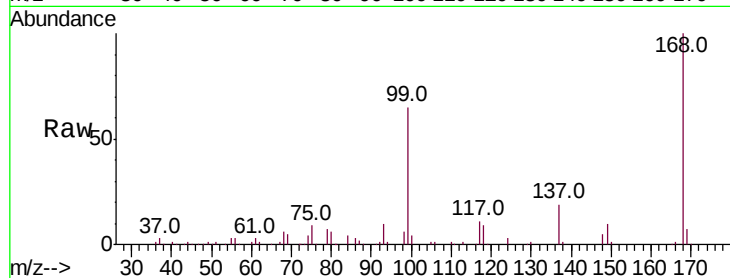




#31
Cyclohexane
Concen: 1.216 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

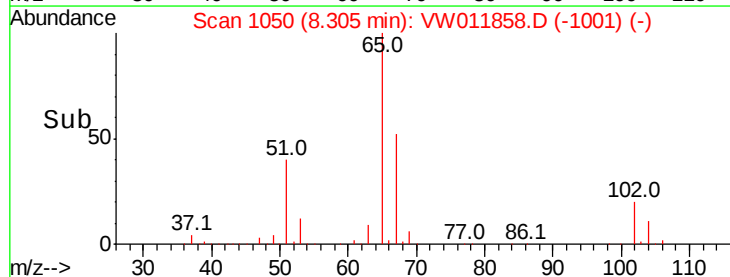
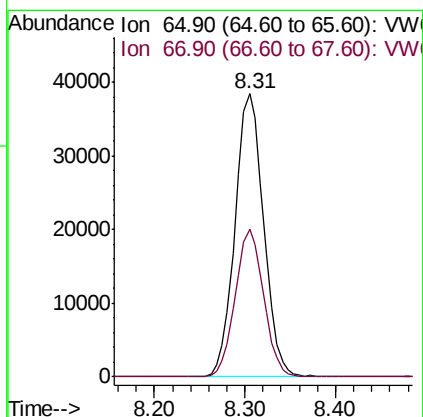
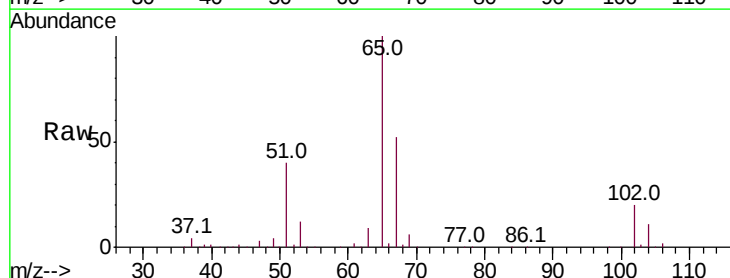
Instrument :
MSVOA_W
ClientSampleId :

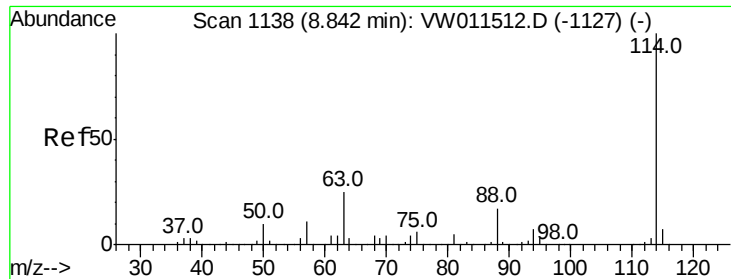
Tot Ion: 56 Resp: 2386
Ion Ratio Lower Upper
56 100
69 153.4 24.3 36.5#
84 120.6 60.4 90.6#



#33
1,2-Dichloroethane-d4
Concen: 80.397 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

Tgt Ion: 65 Resp: 84365
Ion Ratio Lower Upper
65 100
67 51.7 0.0 105.2

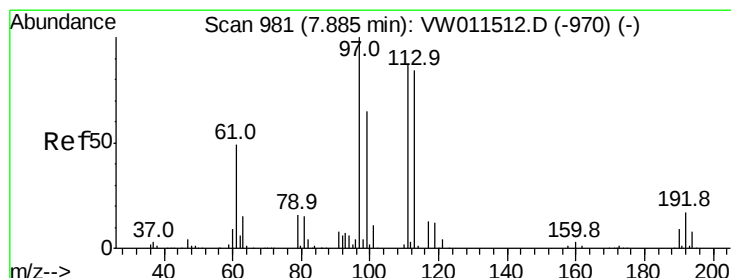
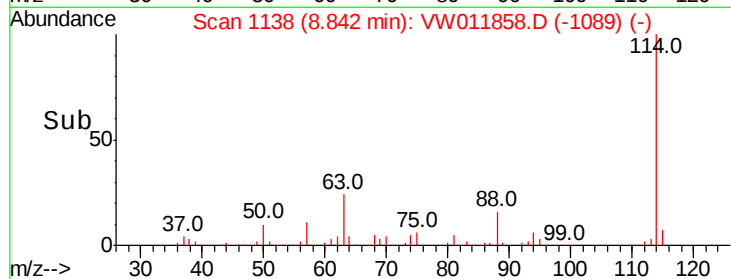
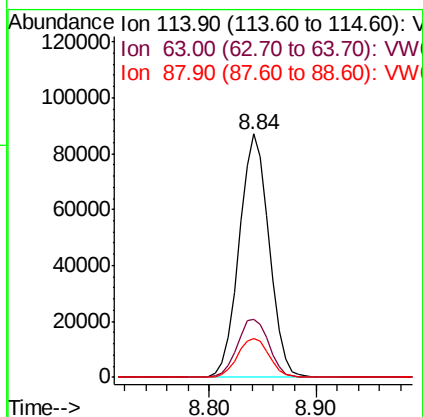
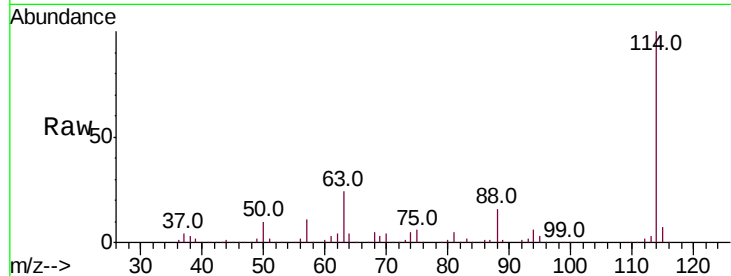




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011858.D
 Acq: 12 Aug 2019 17:49

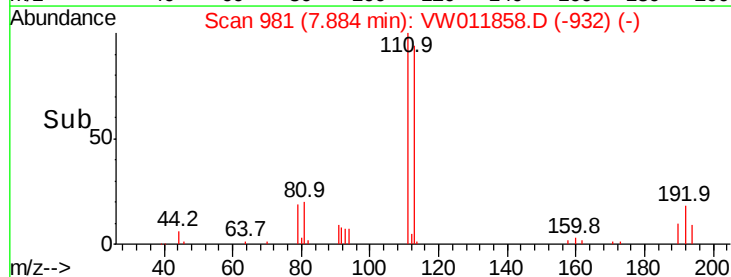
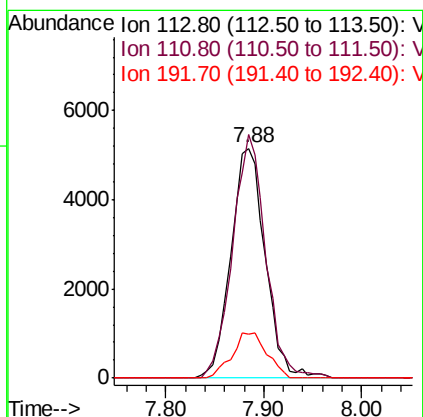
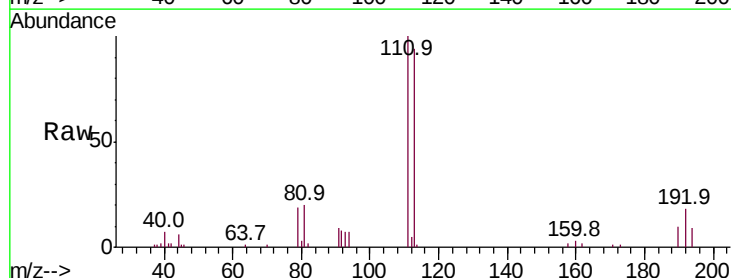
Instrument :
 MSVOA_W
 ClientSampleId :

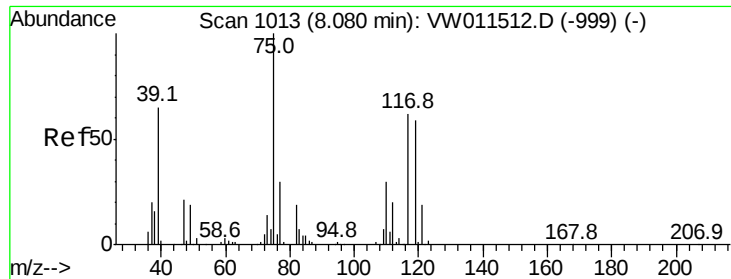
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	49.2
88	16.1	0.0	33.8



#35
 Dibromofluoromethane
 Concen: 13.107 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW011858.D
 Acq: 12 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.7	124.1
192	19.9	16.1	24.1

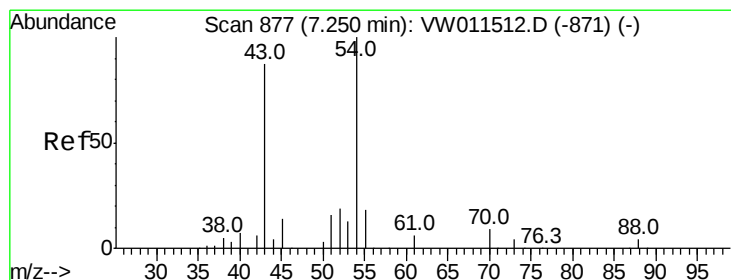
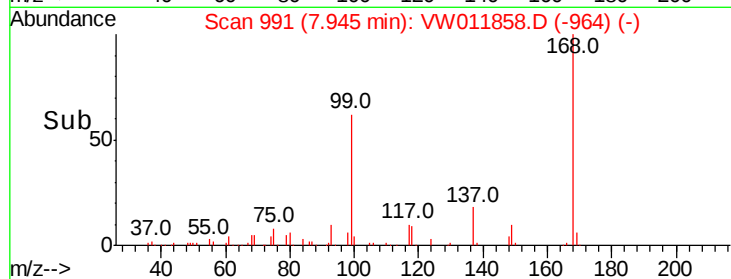
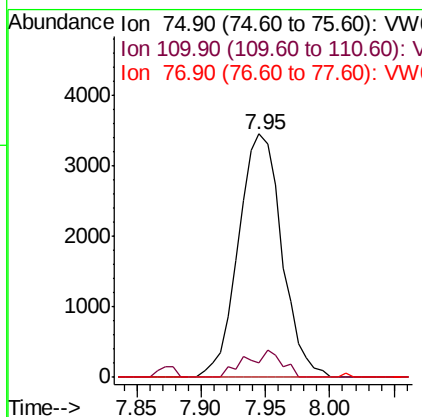
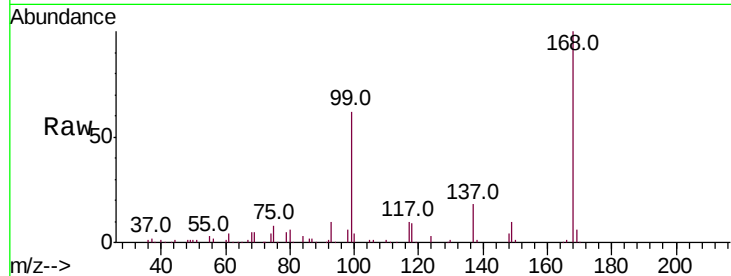




#36
 1,1-Dichloropropene
 Concen: 4.505 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011858.D
 Acq: 12 Aug 2019 17:49

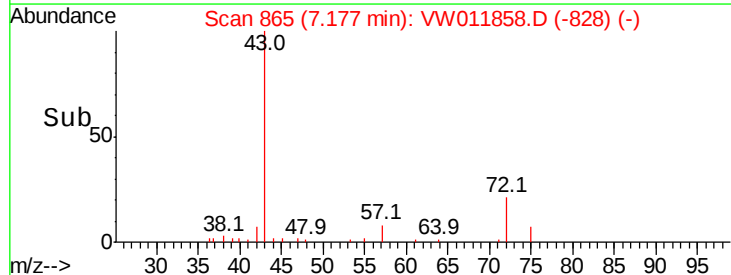
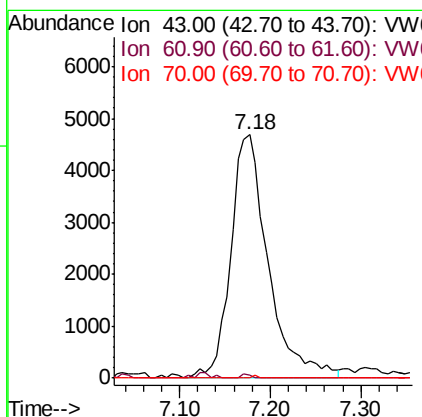
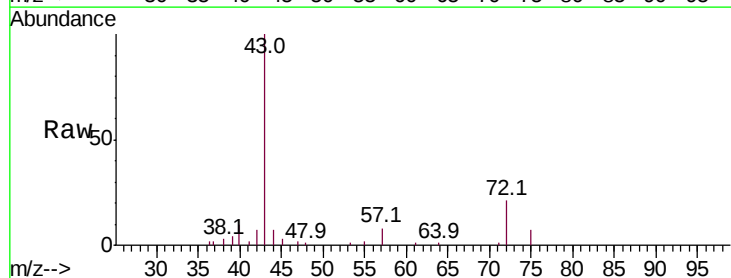
Instrument :
 MSVOA_W
 ClientSampleId :

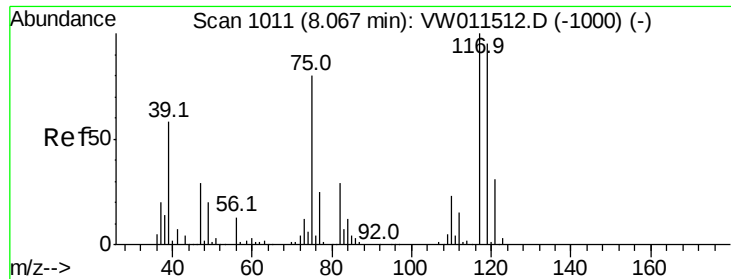
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	15.6	46.8#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 13.089 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.07 min
 Lab File: VW011858.D
 Acq: 12 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.4	8.8	13.2#
70	0.1	7.1	10.7#





#38

Carbon Tetrachloride

Concen: 6.293 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW011858.D

Acq: 12 Aug 2019 17:49

Instrument :
MSVOA_W
ClientSampleId :

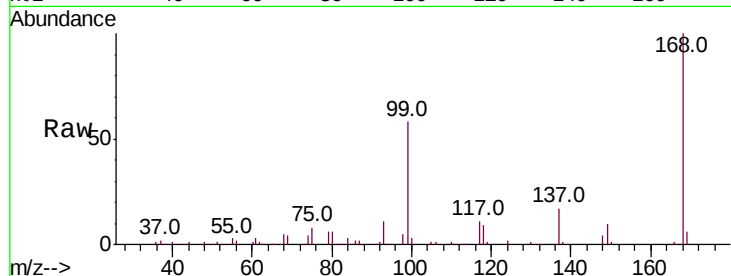
Tot Ion:117 Resp: 9612

Ion Ratio Lower Upper

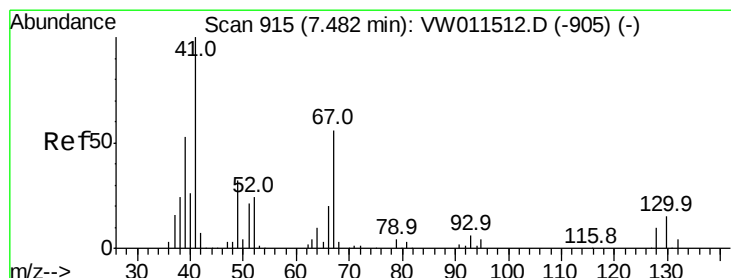
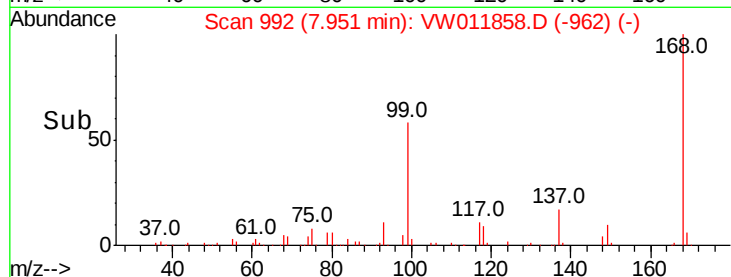
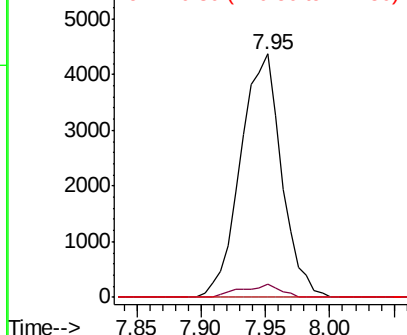
117 100

119 5.6 75.8 113.6#

121 0.0 24.7 37.1#



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



#41

Methacrylonitrile

Concen: 5.306 ug/l

RT: 7.52 min Scan# 922

Delta R.T. 0.04 min

Lab File: VW011858.D

Acq: 12 Aug 2019 17:49

Tgt Ion: 41 Resp: 3256

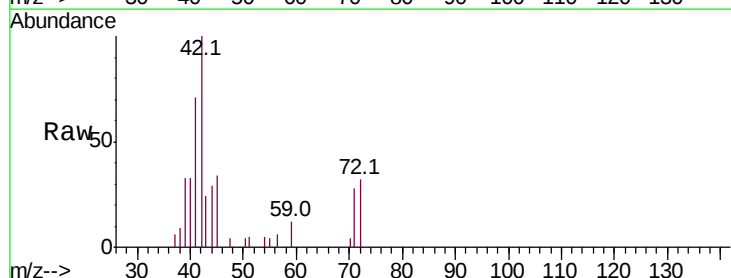
Ion Ratio Lower Upper

41 100

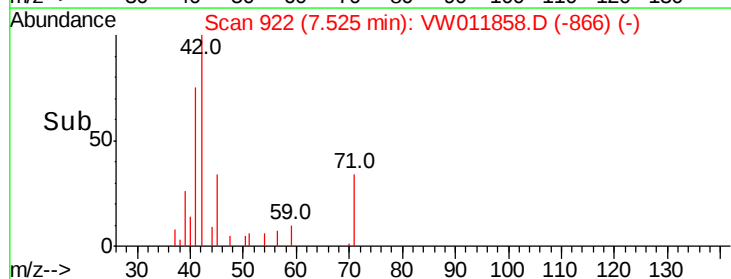
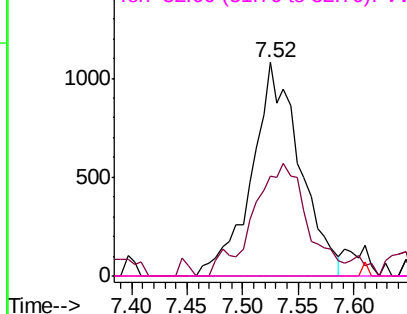
39 44.5 43.0 64.4

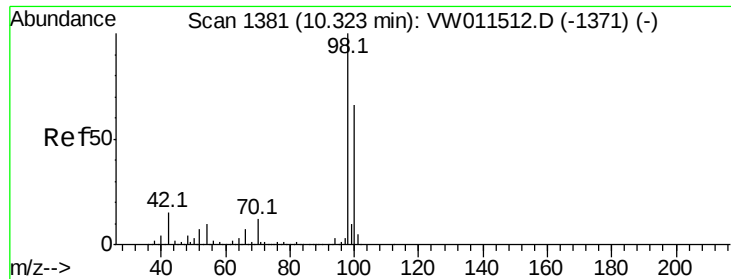
67 0.0 47.5 71.3#

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

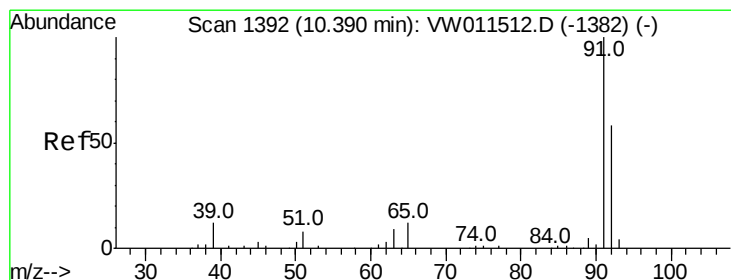
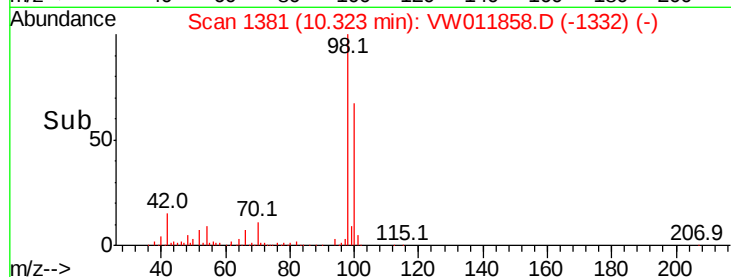
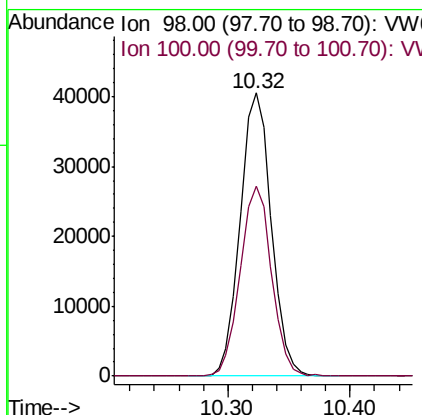
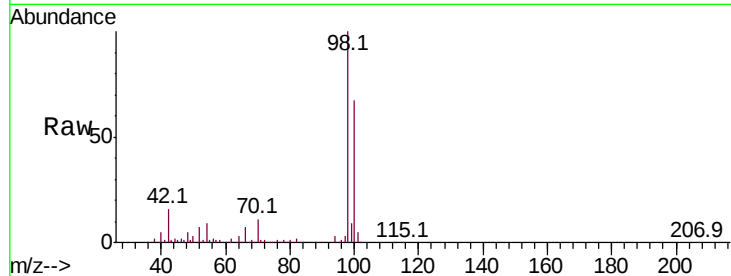




#50
Toluene-d8
Concen: 18.141 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

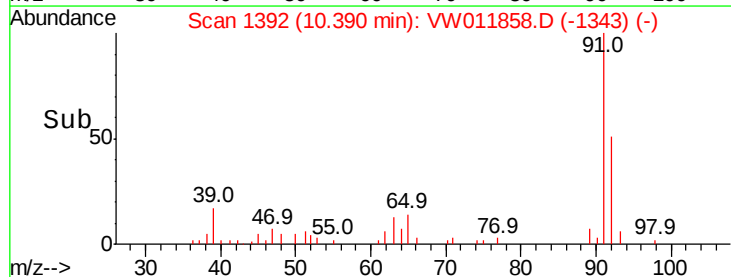
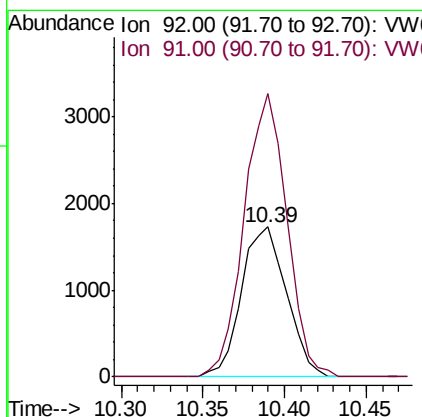
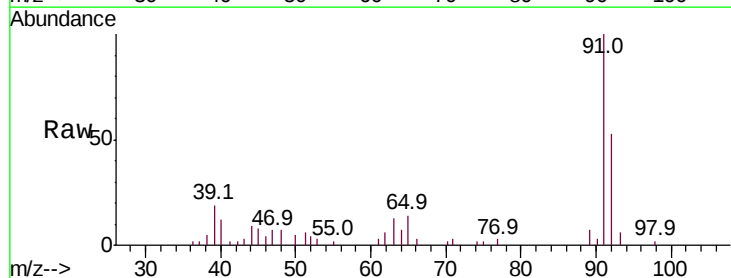
Instrument :
MSVOA_W
ClientSampleId :

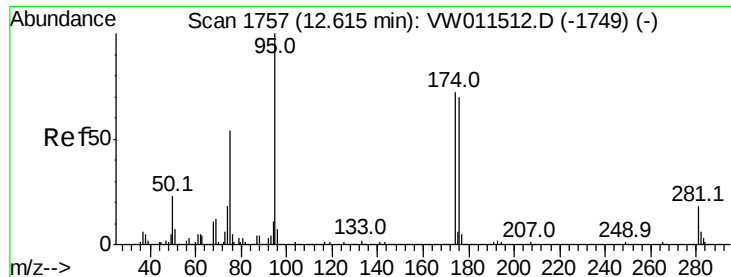
Tot Ion: 98 Resp: 71497
Ion Ratio Lower Upper
98 100
100 67.3 52.7 79.1



#52
Toluene
Concen: 1.099 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

Tgt Ion: 92 Resp: 3316
Ion Ratio Lower Upper
92 100
91 179.0 136.7 205.1

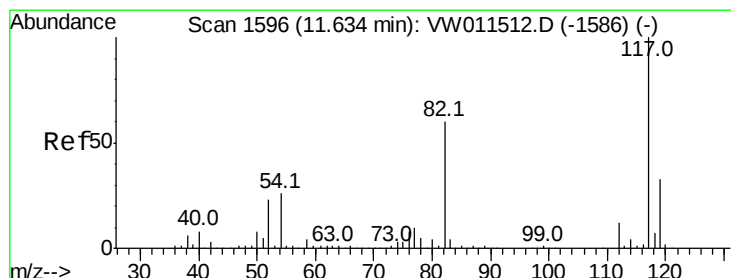
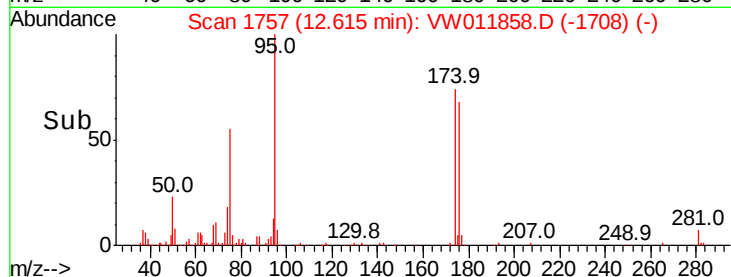
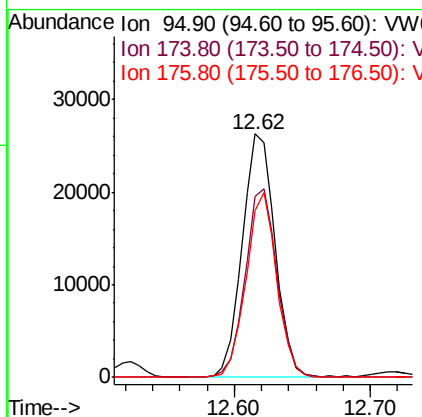
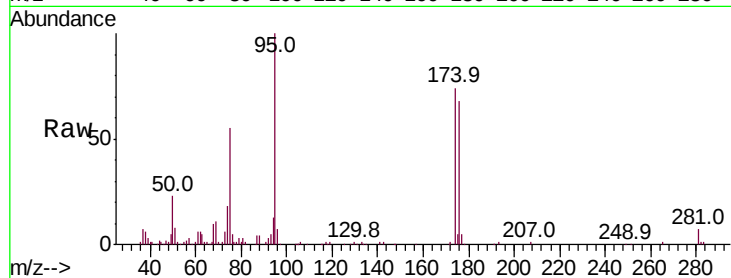




#62
4-Bromofluorobenzene
Concen: 31.584 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

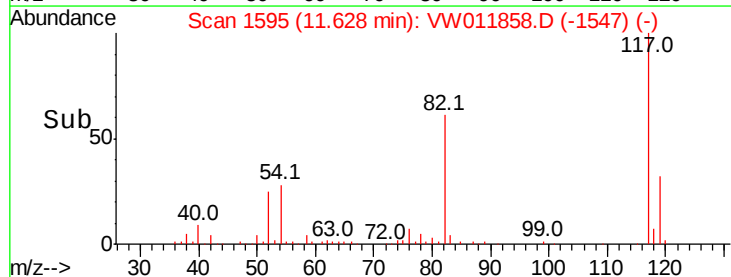
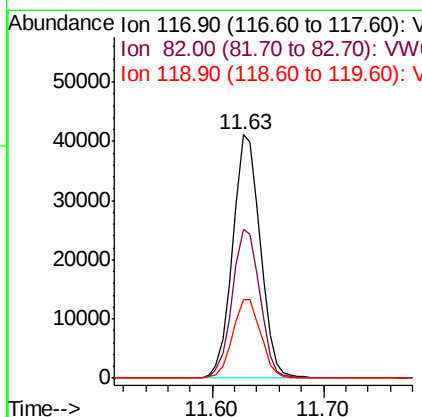
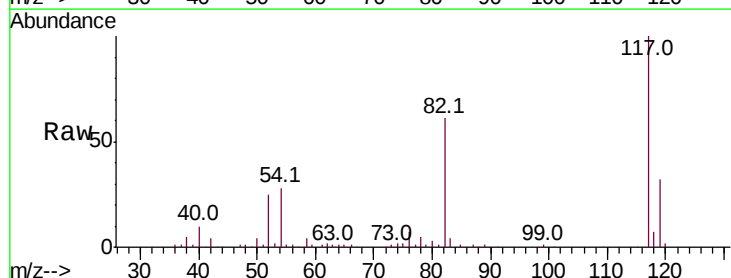
Instrument :
MSVOA_W
ClientSampleId :

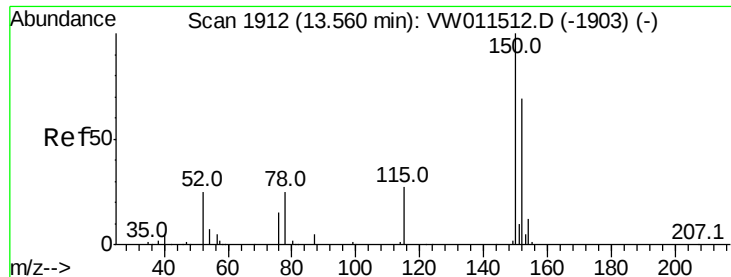
Tot Ion: 95 Resp: 44380
Ion Ratio Lower Upper
95 100
174 75.7 0.0 150.2
176 70.8 0.0 144.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

Tgt Ion: 117 Resp: 70554
Ion Ratio Lower Upper
117 100
82 61.0 47.9 71.9
119 32.2 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: VW011858.D

Acq: 12 Aug 2019 17:49

Instrument :

MSVOA_W

ClientSampled :

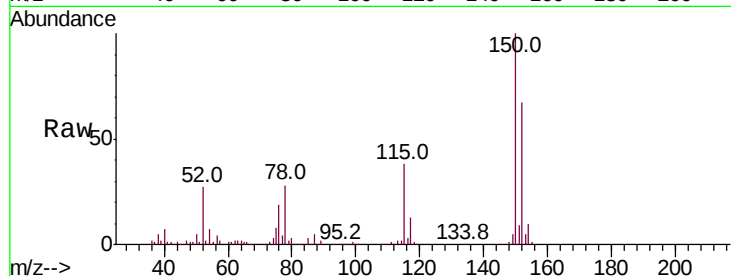
Tot Ion:152 Resp: 40356

Ion Ratio Lower Upper

152 100

115 60.1 30.5 91.5

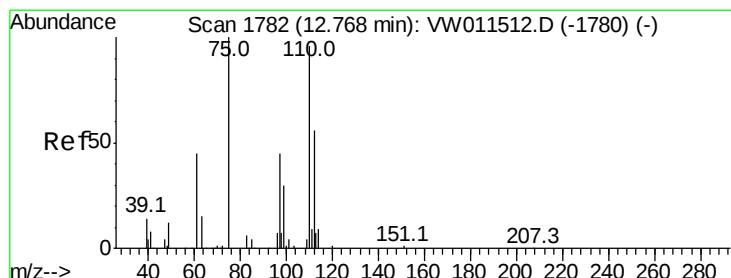
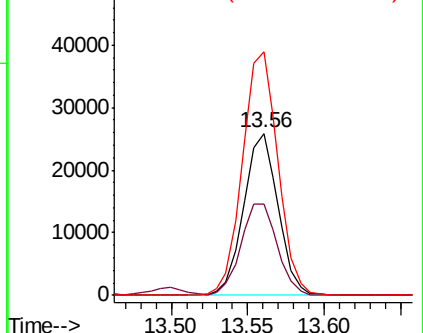
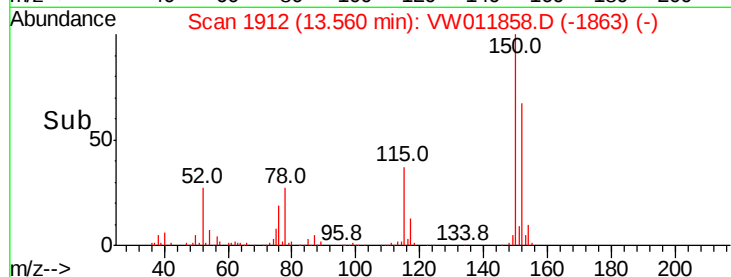
150 155.0 0.0 352.6



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: 55.558 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011858.D

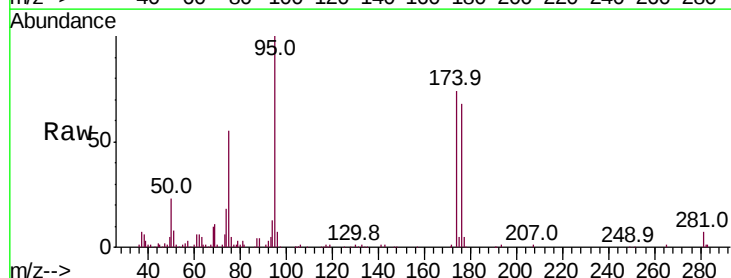
Acq: 12 Aug 2019 17:49

Tgt Ion: 75 Resp: 23724

Ion Ratio Lower Upper

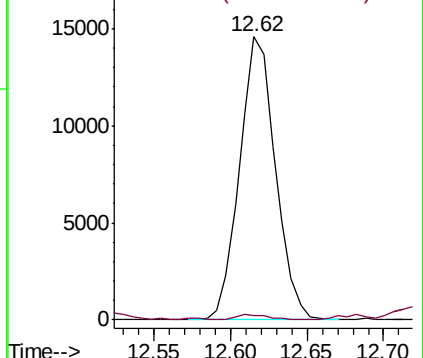
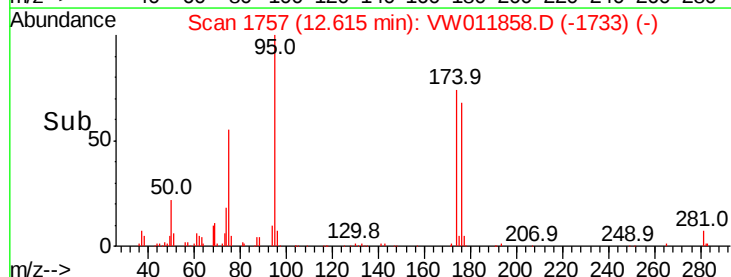
75 100

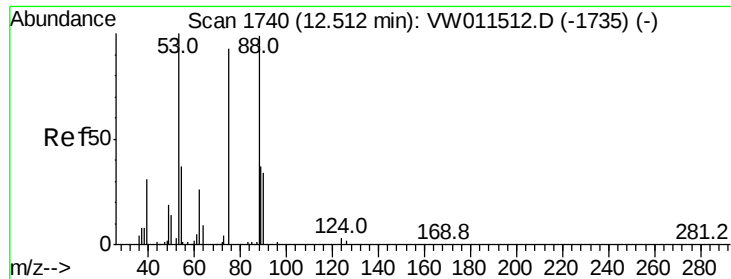
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

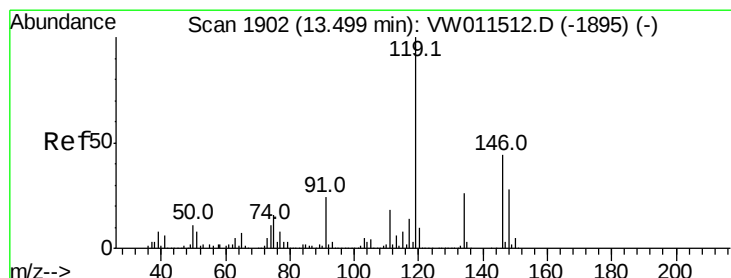
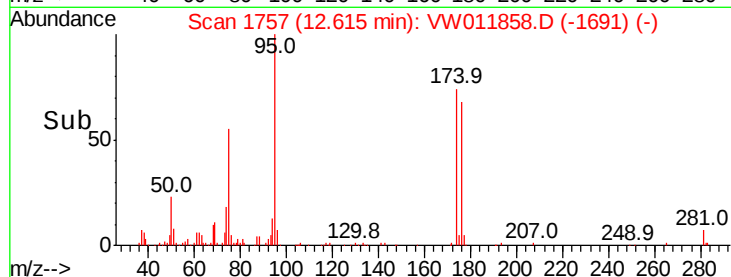
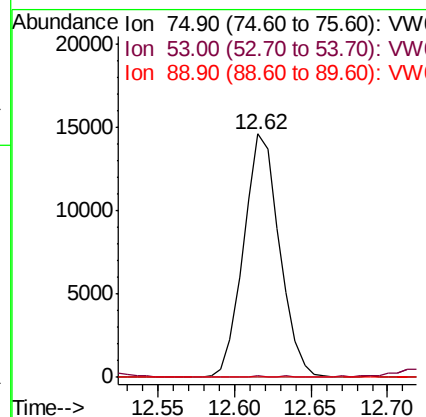
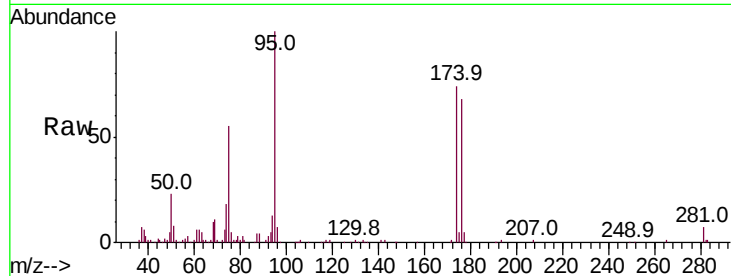




#81
trans-1,4-Dichloro-2-butene
Concen: 128.042 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

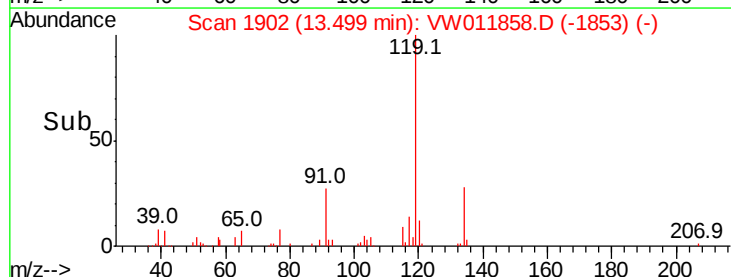
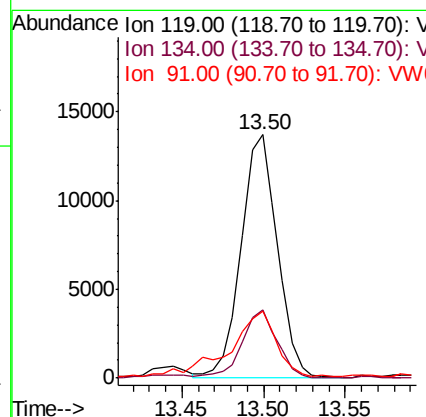
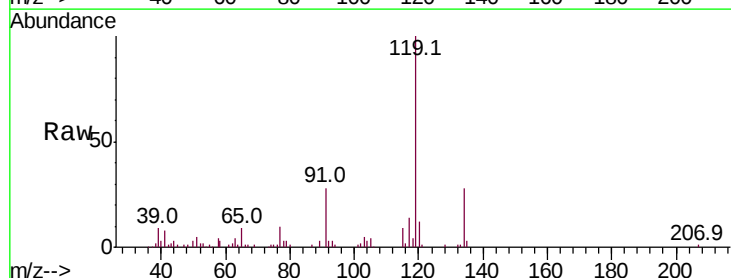
Instrument :
MSVOA_W
ClientSampleId :

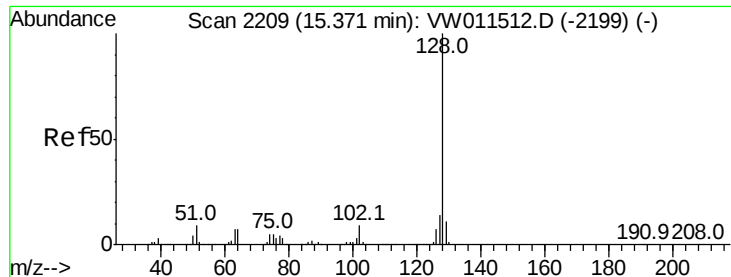
Tot Ion: 75 Resp: 23724
Ion Ratio Lower Upper
75 100
53 0.2 88.0 132.0#
89 0.0 35.3 52.9#



#86
p-Isopropyltoluene
Concen: 7.799 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW011858.D
Acq: 12 Aug 2019 17:49

Tgt Ion: 119 Resp: 21307
Ion Ratio Lower Upper
119 100
134 27.4 12.8 38.4
91 35.9 12.1 36.3

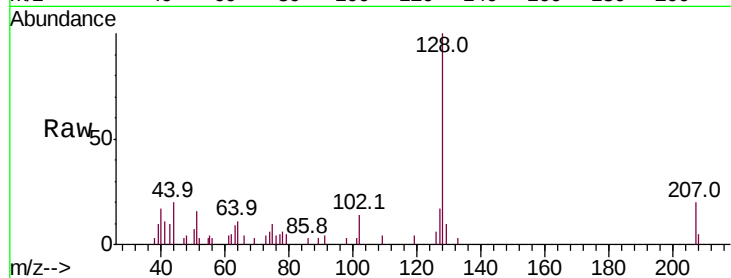




#95
 Naphthalene
 Concen: 4.102 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW011858.D
 Acq: 12 Aug 2019 17:49

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	16.0
129	12.5	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

