

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081219\
 Data File : VW011857.D
 Acq On : 12 Aug 2019 17:23
 Operator : SY/VA
 Sample : K4223-02RE
 Misc : 4.90G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 13 07:47:19 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	165898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	284496	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	92154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	53578	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	106299	55.80	ug/l	0.00
Spiked Amount			Recovery	=	111.60%	
35) Dibromofluoromethane	7.88	113	22158	13.88	ug/l	0.00
Spiked Amount			Recovery	=	27.76%	
50) Toluene-d8	10.32	98	87041	13.32	ug/l	0.00
Spiked Amount			Recovery	=	26.64%	
62) 4-Bromofluorobenzene	12.62	95	57716	24.77	ug/l	0.00
Spiked Amount			Recovery	=	49.54%	

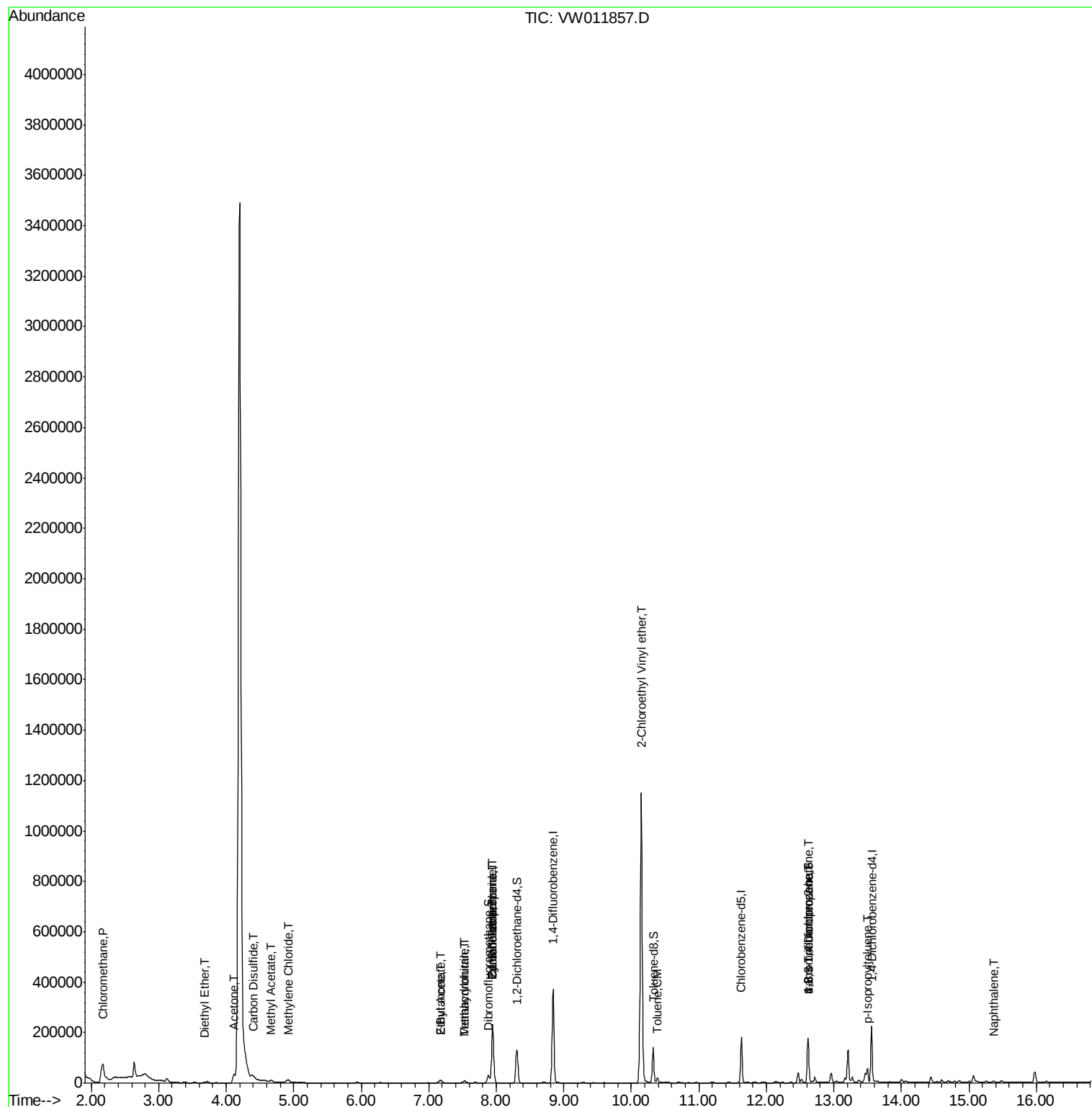
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.17	50	2962	1.848	ug/l #	43
8) Diethyl Ether	3.67	74	1289	1.318	ug/l	82
11) Tert butyl alcohol	5.17	59	1189	Below Cal	#	87
16) Acetone	4.12	43	62042	102.385	ug/l	98
17) Carbon Disulfide	4.41	76	58402	10.800	ug/l	96
18) Methyl Acetate	4.67	43	15619	11.474	ug/l	99
20) Methylene Chloride	4.91	84	8521	4.077	ug/l	96
25) 2-Butanone	7.17	43	20554	25.922	ug/l	99
29) Tetrahydrofuran	7.53	42	6244	13.776	ug/l	97
31) Cyclohexane	7.95	56	4392	1.233	ug/l #	15
36) 1,1-Dichloropropene	7.95	75	14891	5.034	ug/l #	52
37) Ethyl Acetate	7.17	43	20554	12.077	ug/l #	74
38) Carbon Tetrachloride	7.95	117	16848	6.653	ug/l #	16
41) Methacrylonitrile	7.53	41	4796	4.714	ug/l #	56
52) Toluene	10.39	92	8087	1.616	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.15	63	5298	5.554	ug/l #	51
76) 1,2,3-Trichloropropane	12.62	75	30979	54.645	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	30979	125.937	ug/l #	6
86) p-Isopropyltoluene	13.50	119	28428	7.837	ug/l	89
95) Naphthalene	15.37	128	4672	4.183	ug/l	95

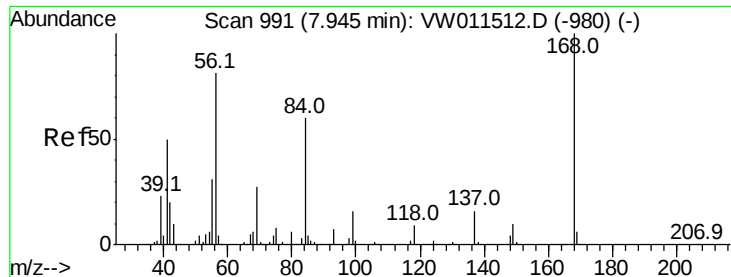
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jul 27 00:23:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

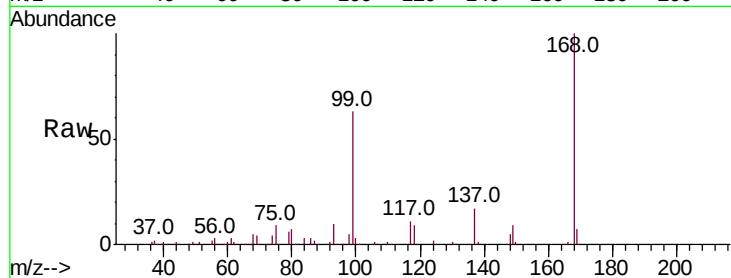
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 165898

Ion Ratio Lower Upper

168 100

99 63.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

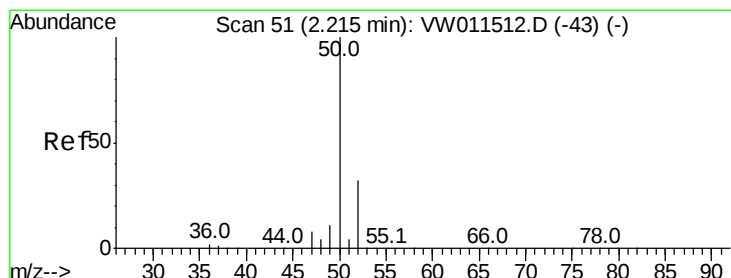
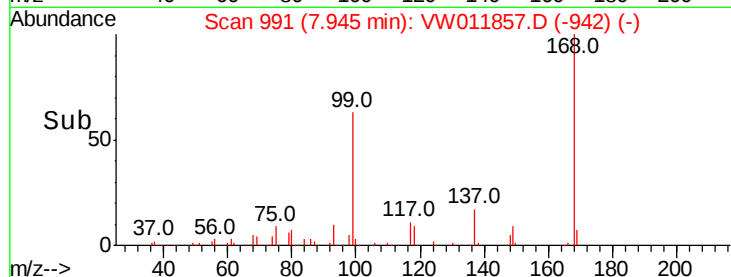
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#3

Chloromethane

Concen: 1.848 ug/l

RT: 2.17 min Scan# 43

Delta R.T. -0.05 min

Lab File: VW011857.D

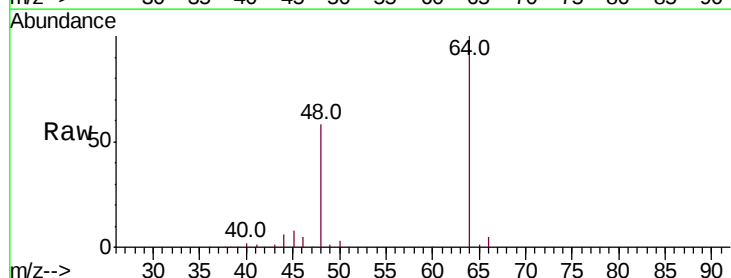
Acq: 12 Aug 2019 17:23

Tgt Ion: 50 Resp: 2962

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

2.17

1200

1000

800

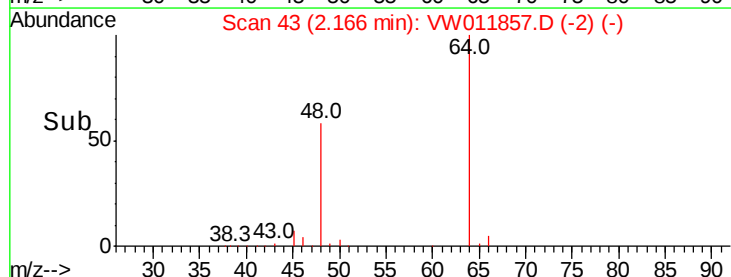
600

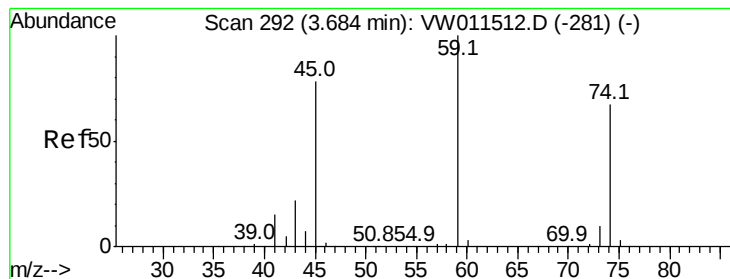
400

200

0

Time--> 2.10 2.15 2.20





#8

Diethyl Ether

Concen: 1.318 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

Instrument :

MSVOA_W

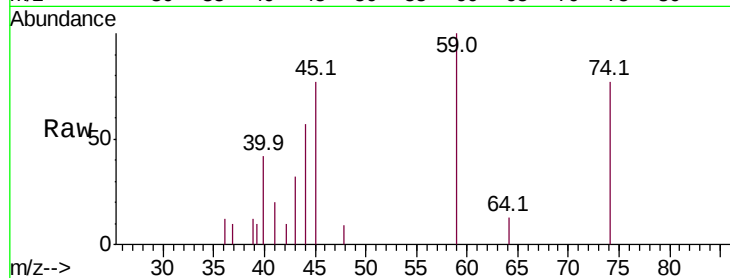
ClientSampled :

Tot Ion: 74 Resp: 1289

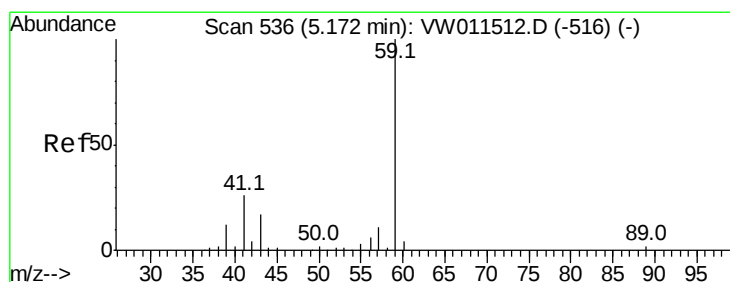
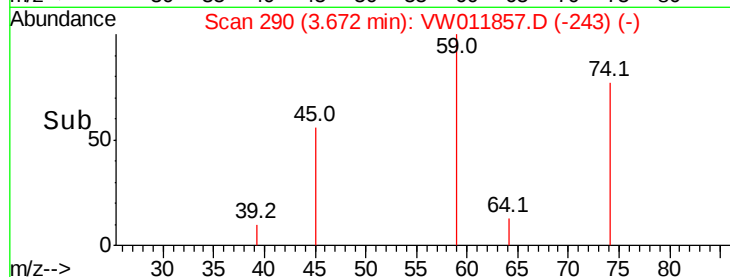
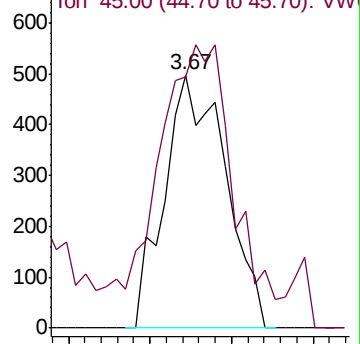
Ion Ratio Lower Upper

74 100

45 139.5 59.6 178.8



Abundance Ion 74.00 (73.70 to 74.70): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW011857.D

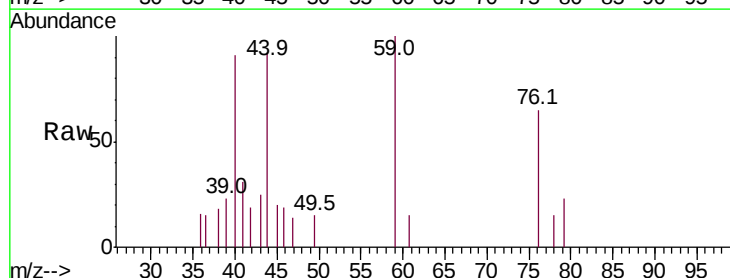
Acq: 12 Aug 2019 17:23

Tgt Ion: 59 Resp: 1189

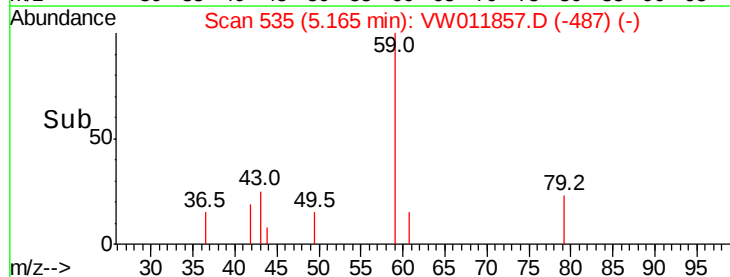
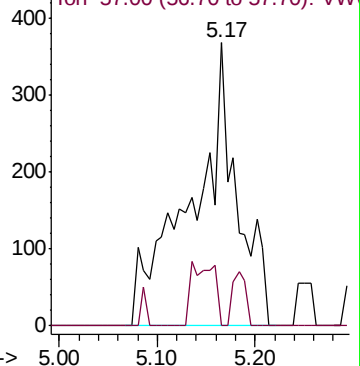
Ion Ratio Lower Upper

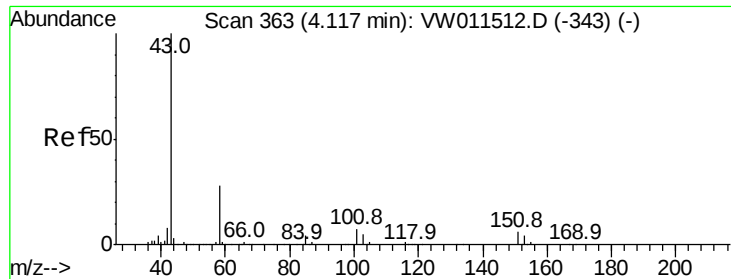
59 100

57 5.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW





#16

Acetone

Concen: 102.385 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

Instrument :

MSVOA_W

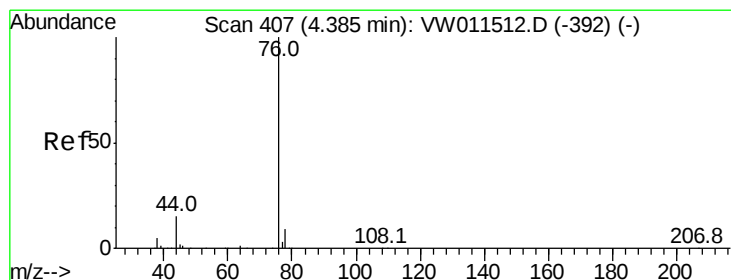
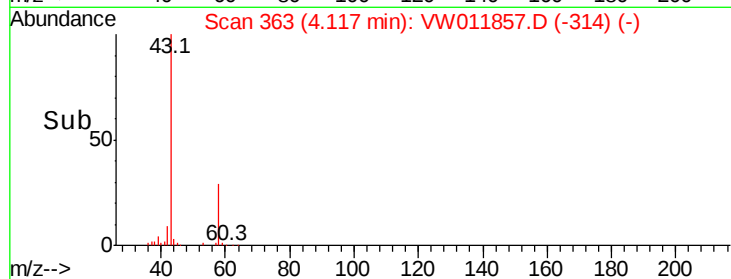
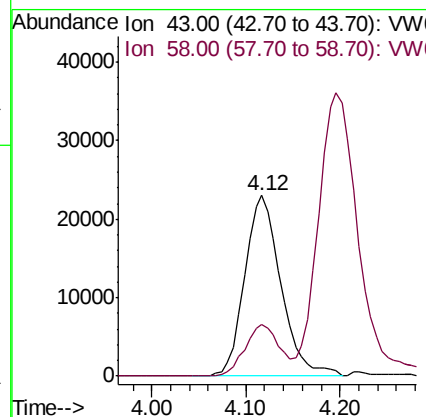
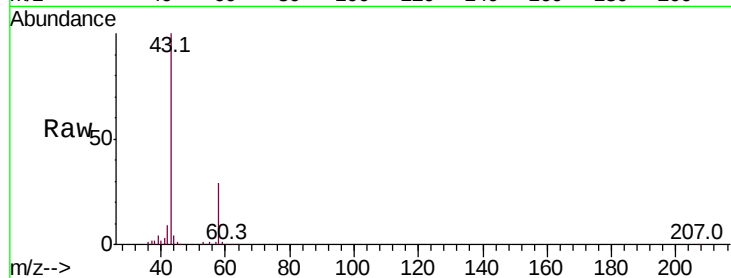
ClientSampleId :

Tot Ion: 43 Resp: 62042

Ion Ratio Lower Upper

43 100

58 28.9 22.3 33.5



#17

Carbon Disulfide

Concen: 10.800 ug/l

RT: 4.41 min Scan# 411

Delta R.T. 0.02 min

Lab File: VW011857.D

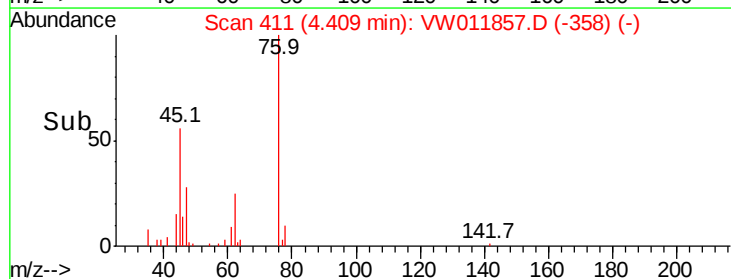
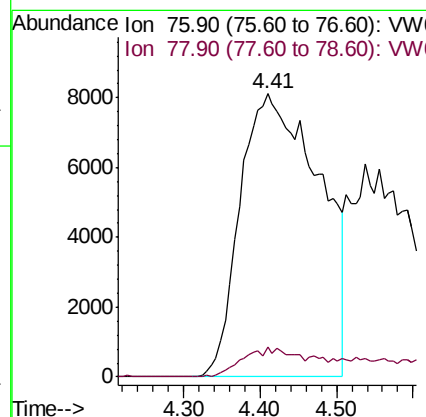
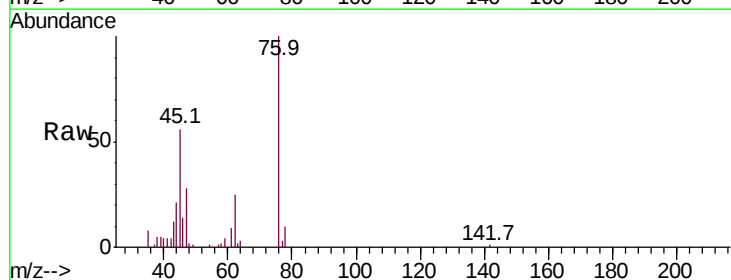
Acq: 12 Aug 2019 17:23

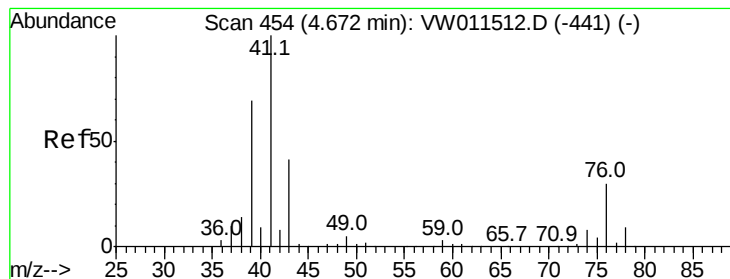
Tgt Ion: 76 Resp: 58402

Ion Ratio Lower Upper

76 100

78 10.4 7.1 10.7





#18

Methyl Acetate

Concen: 11.474 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

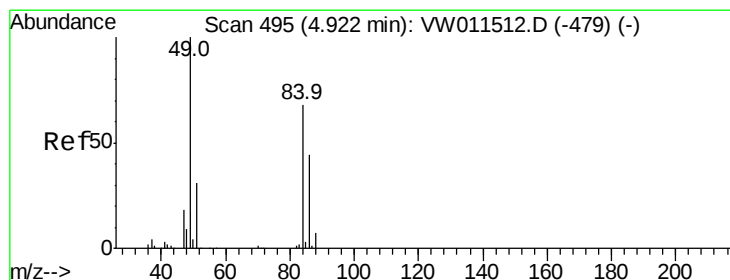
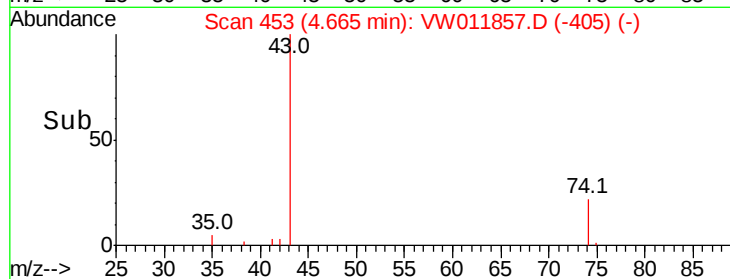
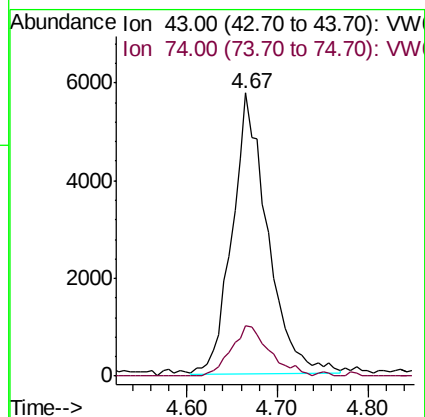
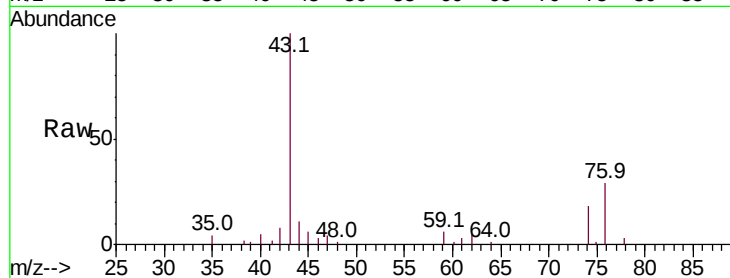
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 15619

Ion Ratio Lower Upper

43 100

74 19.3 15.9 23.9



#20

Methylene Chloride

Concen: 4.077 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

Tgt Ion: 84 Resp: 8521

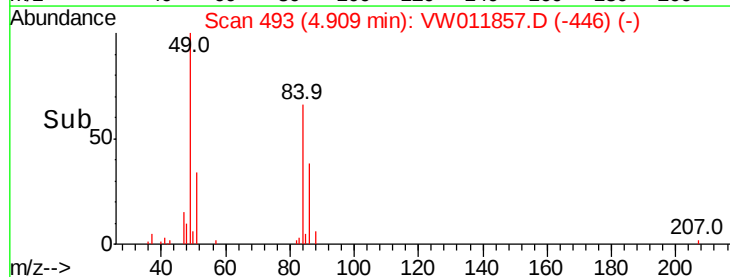
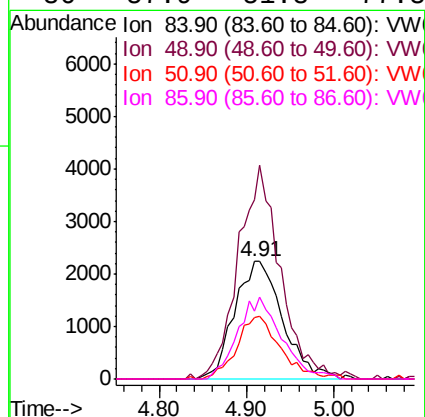
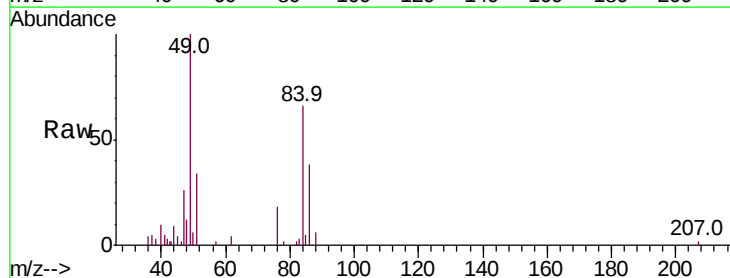
Ion Ratio Lower Upper

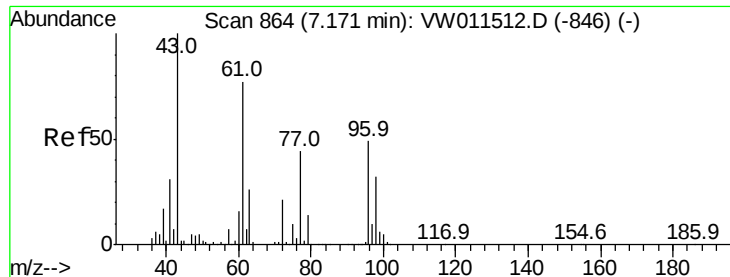
84 100

49 148.4 117.8 176.6

51 49.8 37.0 55.4

86 57.9 51.8 77.8





#25

2-Butanone

Concen: 25.922 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

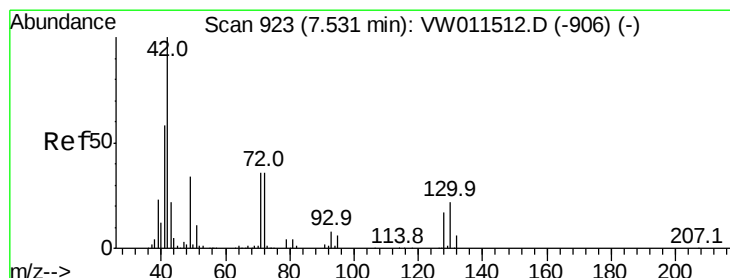
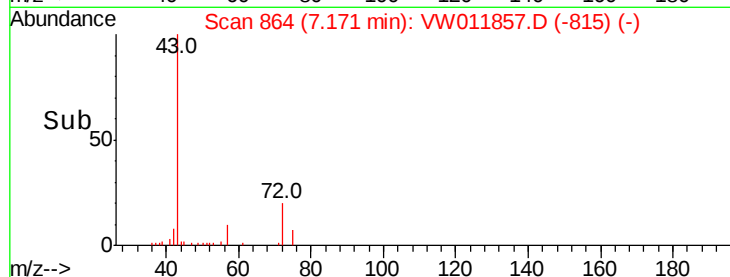
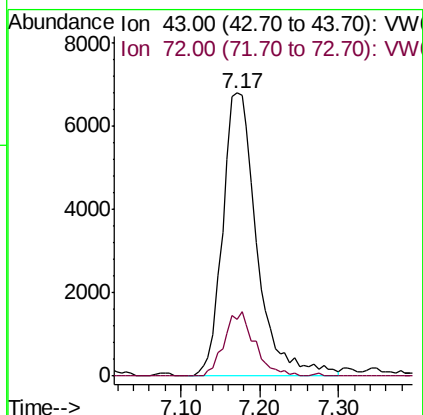
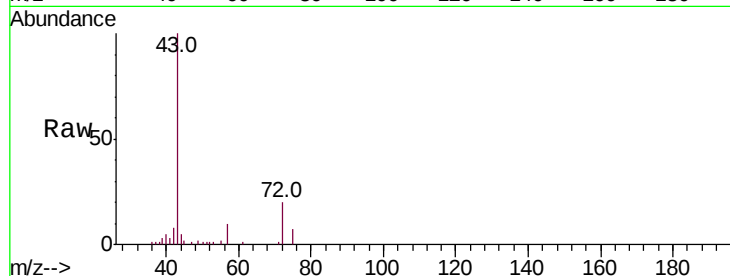
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 20554

Ion Ratio Lower Upper

43 100

72 20.2 16.6 24.8



#29

Tetrahydrofuran

Concen: 13.776 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

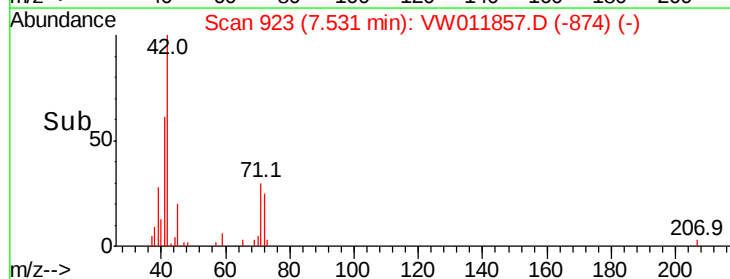
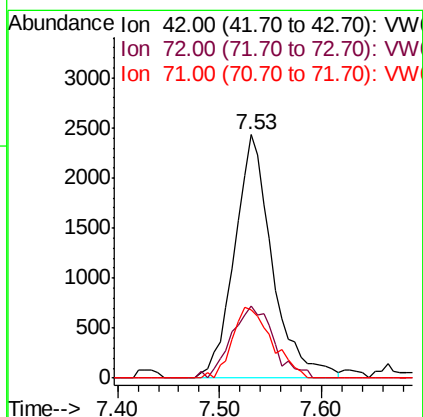
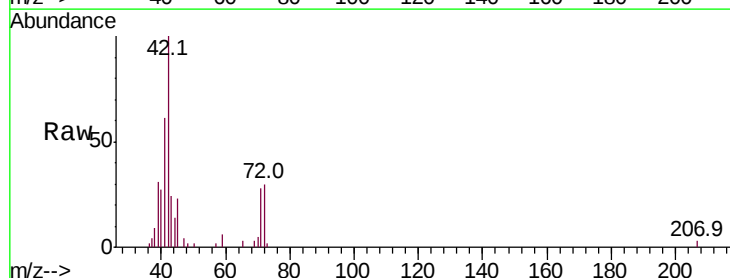
Tgt Ion: 42 Resp: 6244

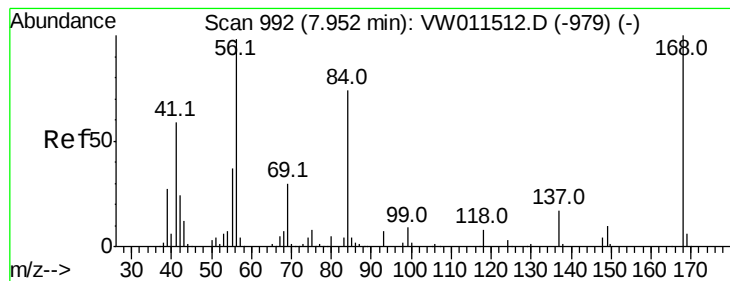
Ion Ratio Lower Upper

42 100

72 33.2 27.1 40.7

71 30.3 26.2 39.4





#31

Cyclohexane

Concen: 1.233 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

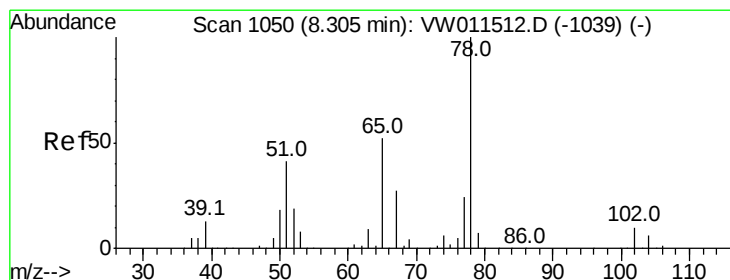
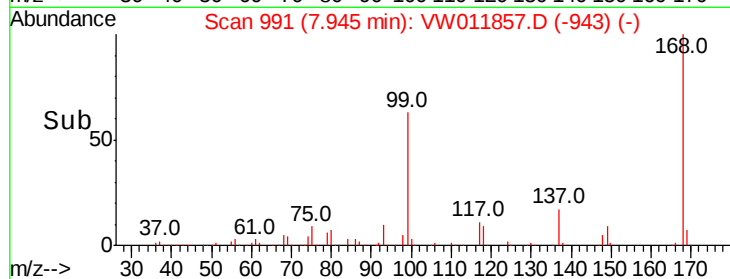
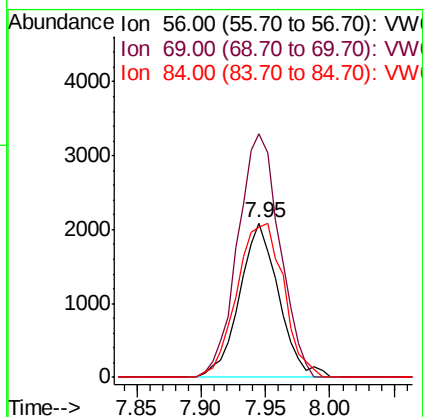
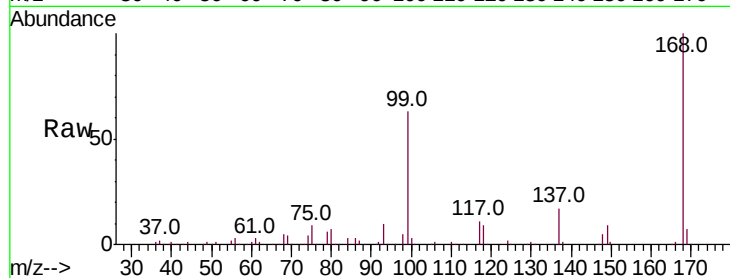
Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 4392

Ion	Ratio	Lower	Upper
56	100		
69	157.9	24.3	36.5#
84	97.3	60.4	90.6#



#33

1,2-Dichloroethane-d4

Concen: 55.801 ug/l

RT: 8.31 min Scan# 1050

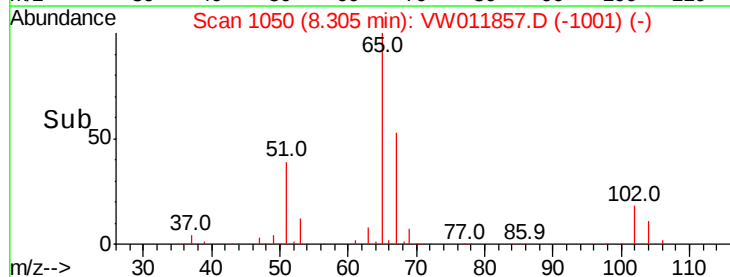
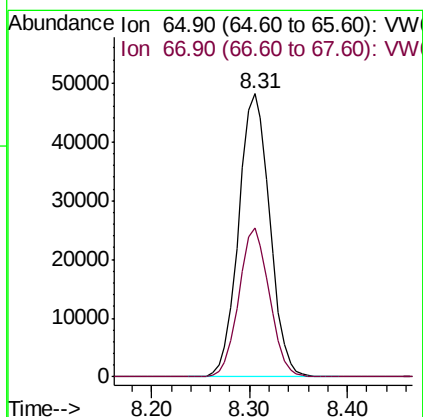
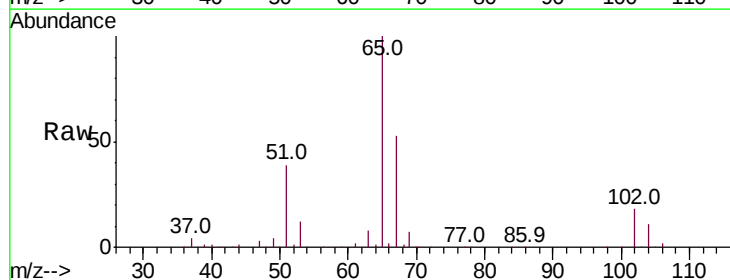
Delta R.T. -0.00 min

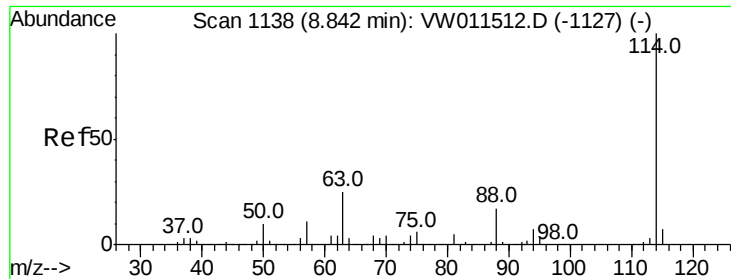
Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

Tgt Ion: 65 Resp: 106299

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.2

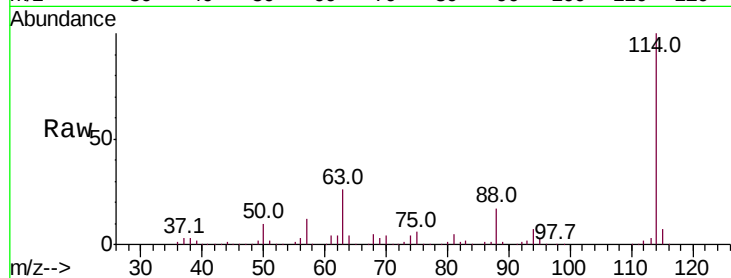




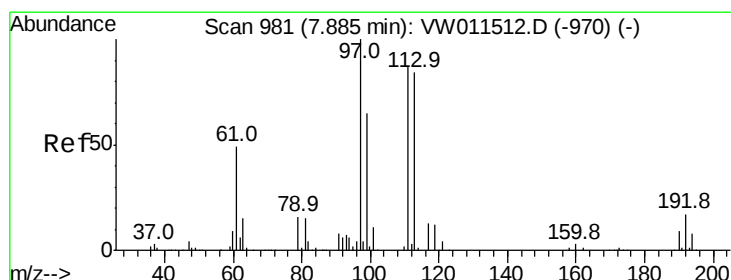
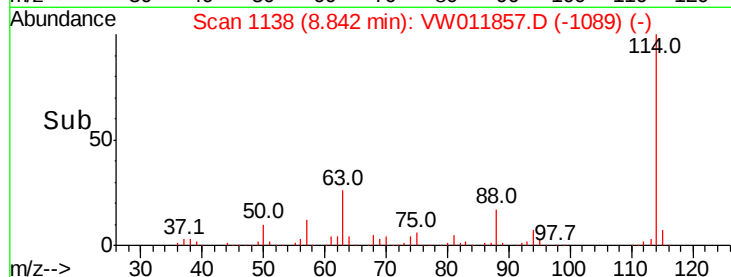
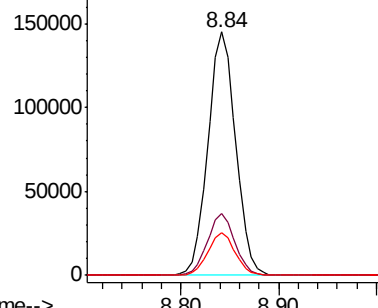
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011857.D
 Acq: 12 Aug 2019 17:23

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.7	0.0	49.2
88	17.3	0.0	33.8

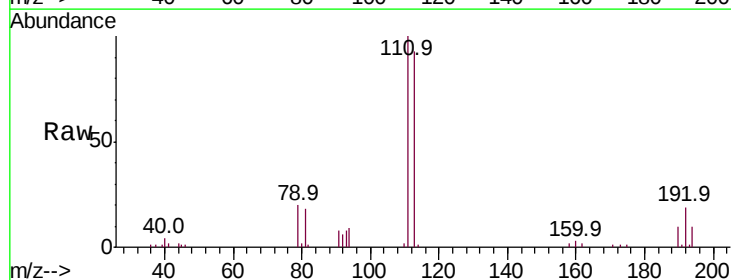


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

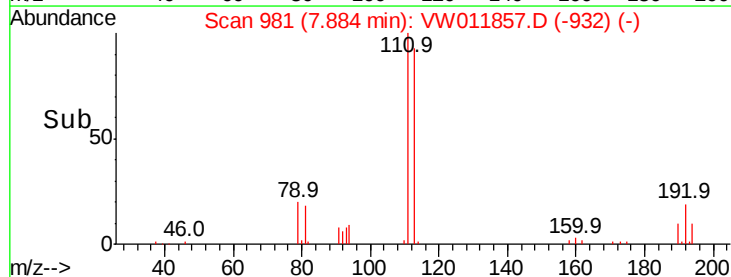
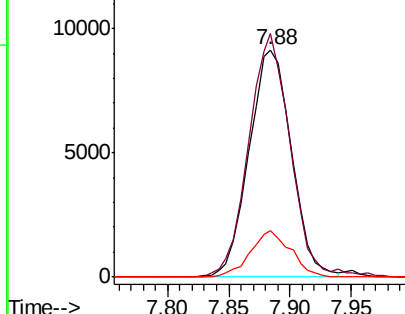


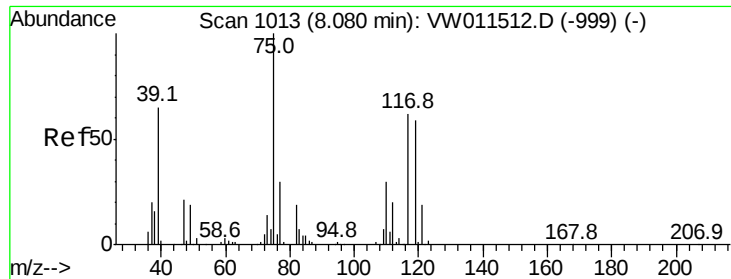
#35
 Dibromofluoromethane
 Concen: 13.883 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW011857.D
 Acq: 12 Aug 2019 17:23

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.7	124.1
192	19.3	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

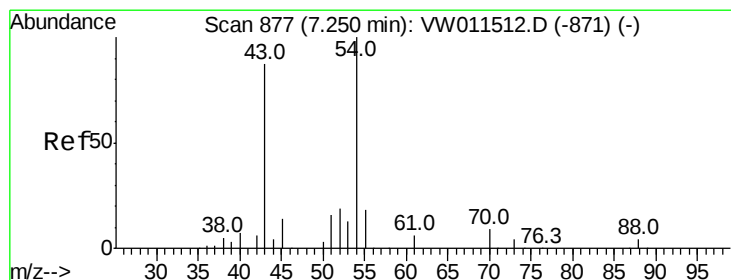
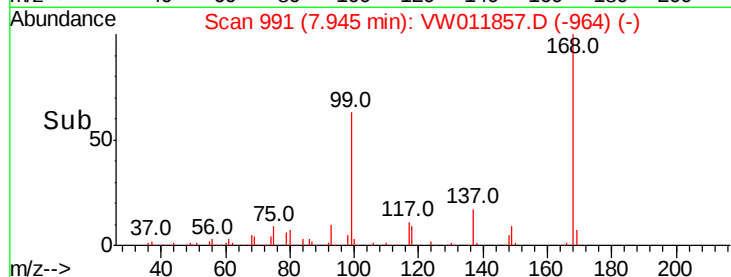
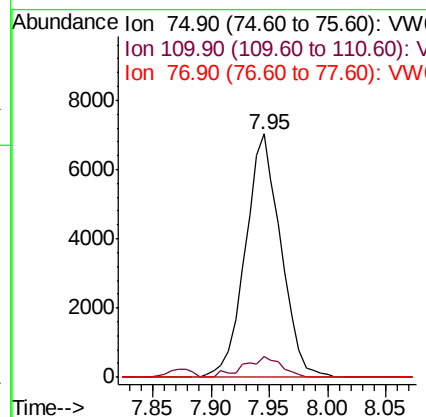
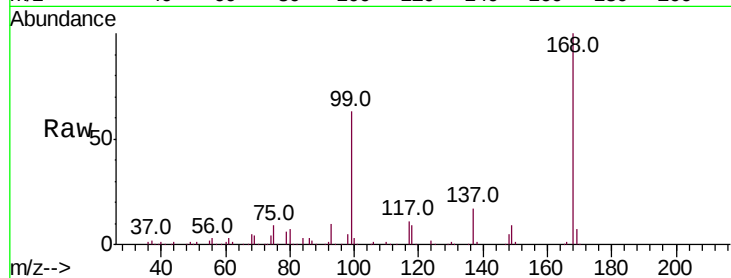




#36
 1,1-Dichloropropene
 Concen: 5.034 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011857.D
 Acq: 12 Aug 2019 17:23

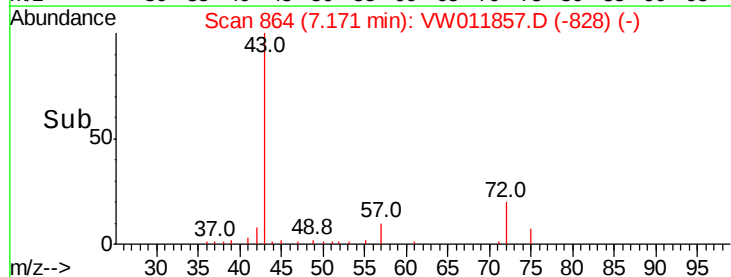
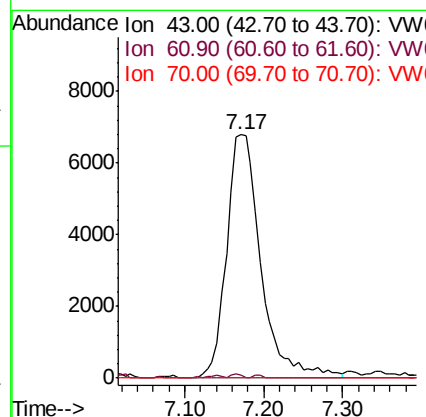
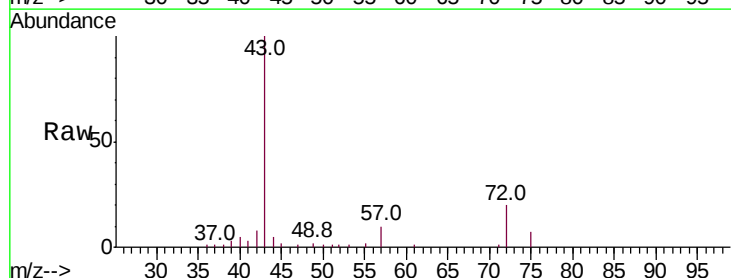
Instrument :
 MSVOA_W
 ClientSampleId :

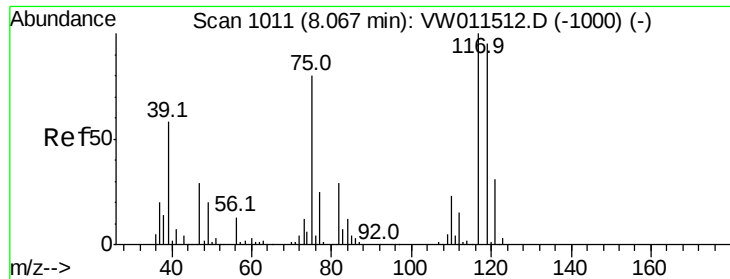
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	15.6	46.8#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 12.077 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.08 min
 Lab File: VW011857.D
 Acq: 12 Aug 2019 17:23

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.5	8.8	13.2#
70	0.0	7.1	10.7#

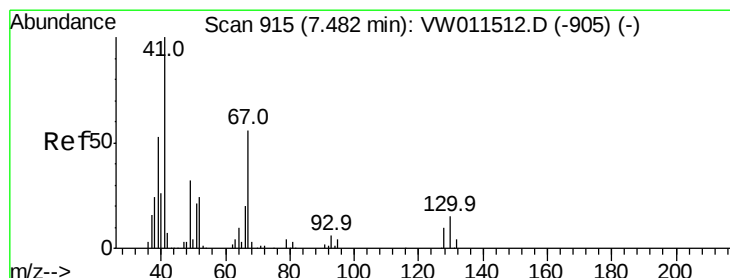
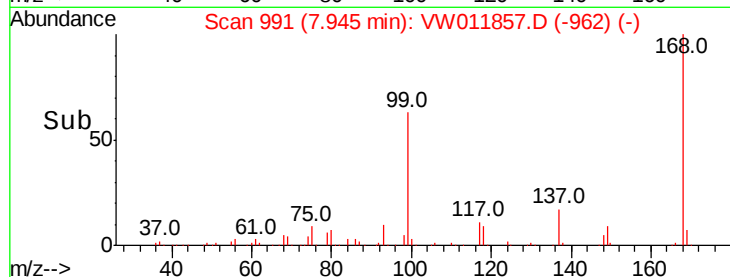
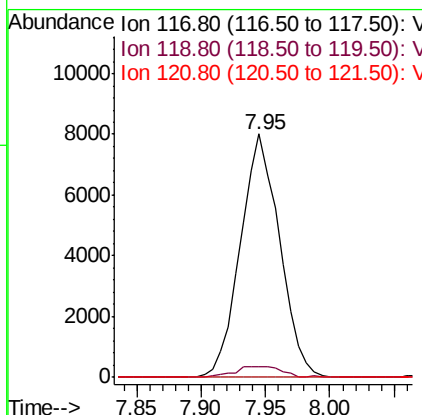
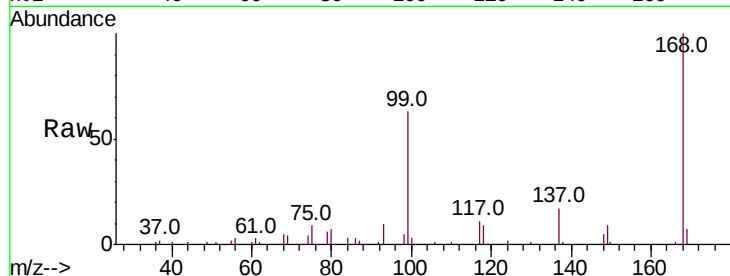




#38
Carbon Tetrachloride
Concen: 6.653 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011857.D
Acq: 12 Aug 2019 17:23

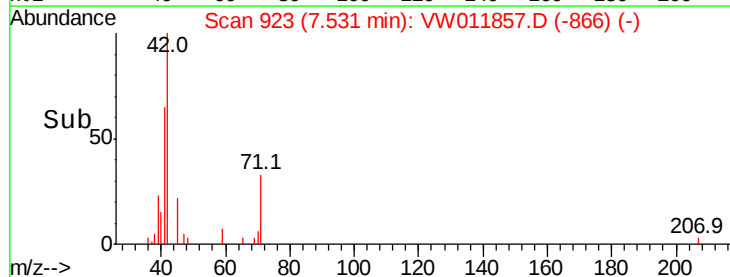
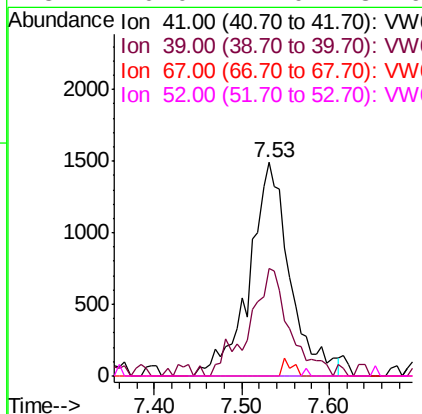
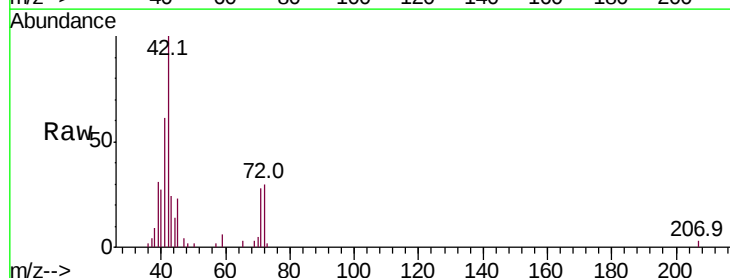
Instrument :
MSVOA_W
ClientSampled :

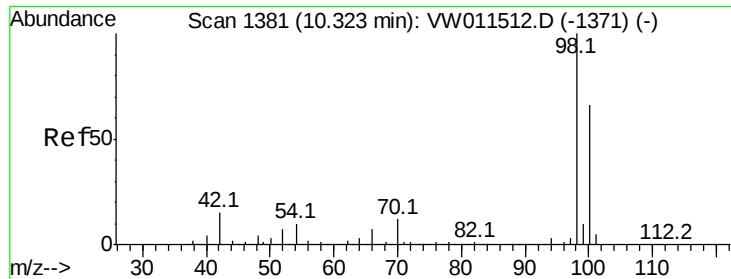
Tot Ion:117 Resp: 16848
Ion Ratio Lower Upper
117 100
119 4.5 75.8 113.6#
121 0.0 24.7 37.1#



#41
Methacrylonitrile
Concen: 4.714 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW011857.D
Acq: 12 Aug 2019 17:23

Tgt Ion: 41 Resp: 4796
Ion Ratio Lower Upper
41 100
39 49.7 43.0 64.4
67 2.0 47.5 71.3#
52 0.0 21.0 31.6#





#50

Toluene-d8

Concen: 13.320 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

Instrument :

MSVOA_W

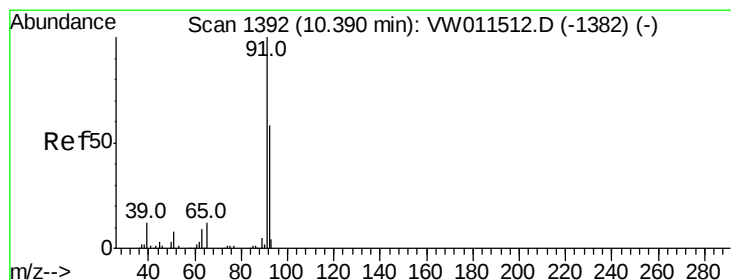
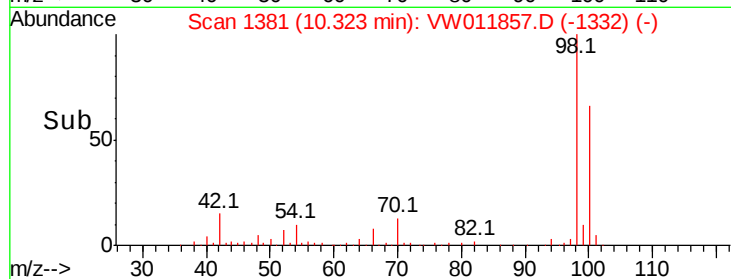
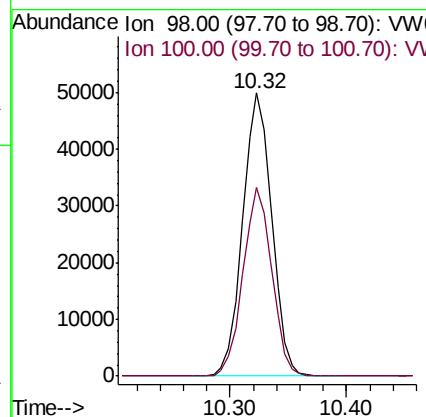
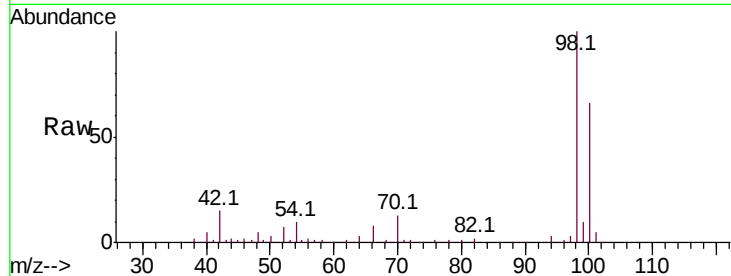
ClientSampled :

Tot Ion: 98 Resp: 87041

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1



#52

Toluene

Concen: 1.616 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW011857.D

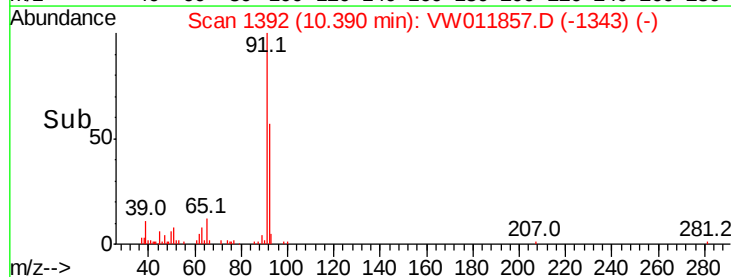
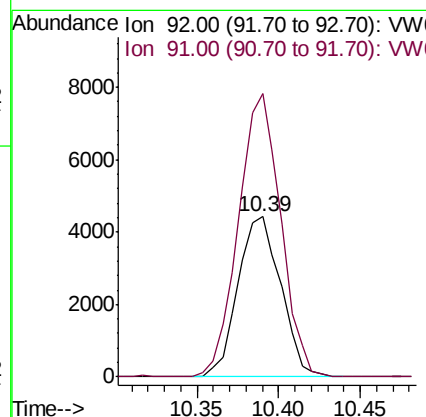
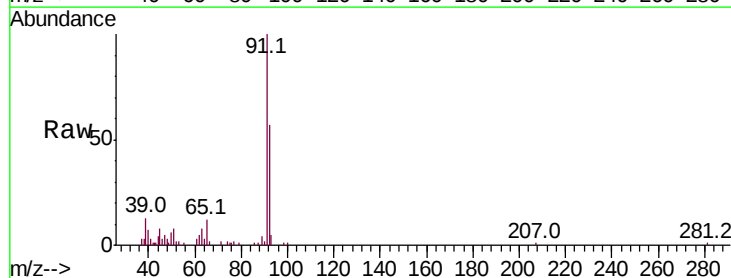
Acq: 12 Aug 2019 17:23

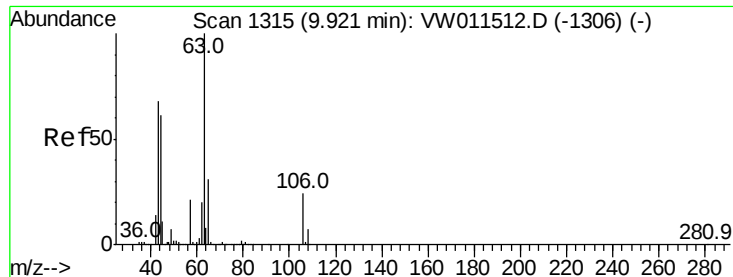
Tgt Ion: 92 Resp: 8087

Ion Ratio Lower Upper

92 100

91 174.5 136.7 205.1

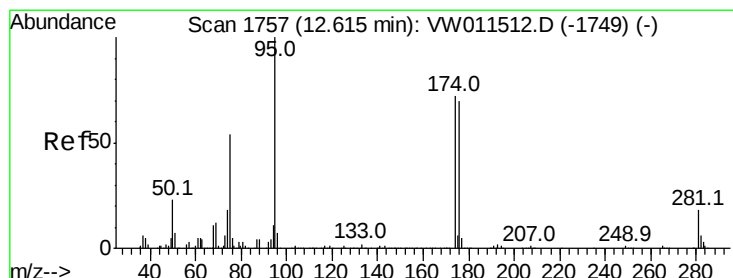
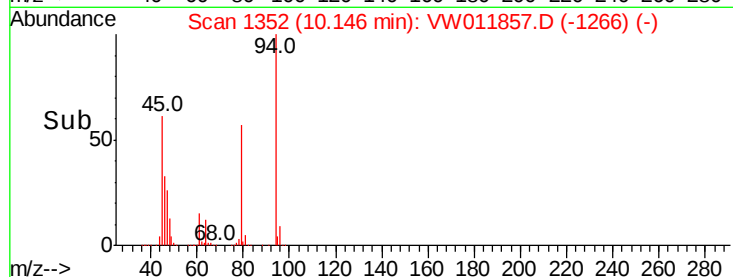
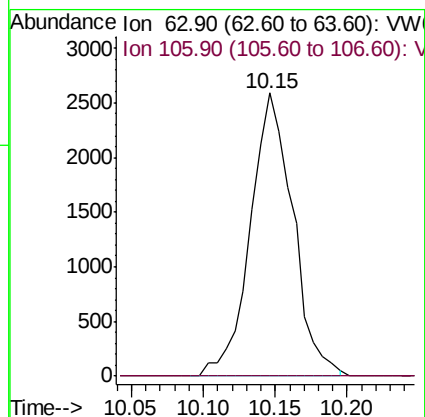
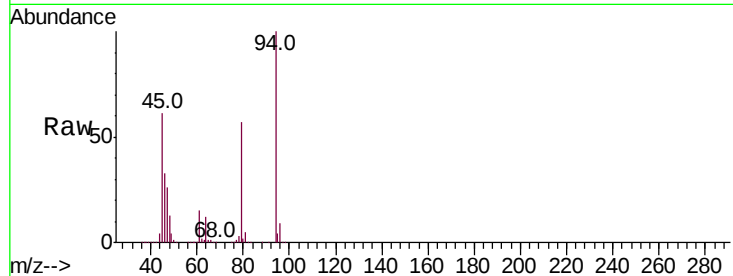




#58
 2-Chloroethyl Vinyl ether
 Concen: 5.554 ug/l
 RT: 10.15 min Scan# 1352
 Delta R.T. 0.23 min
 Lab File: VW011857.D
 Acq: 12 Aug 2019 17:23

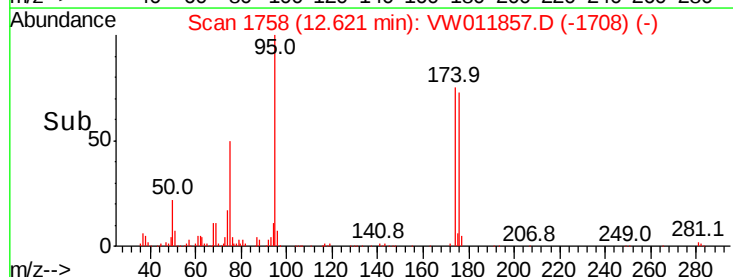
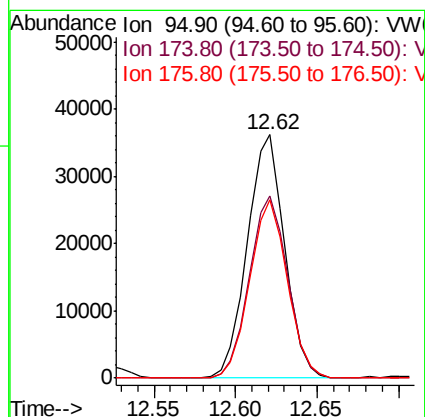
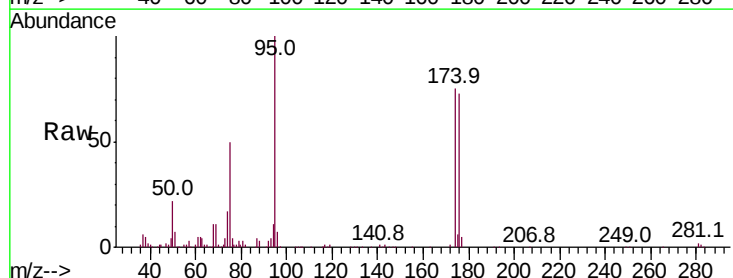
Instrument :
 MSVOA_W
 ClientSampled :

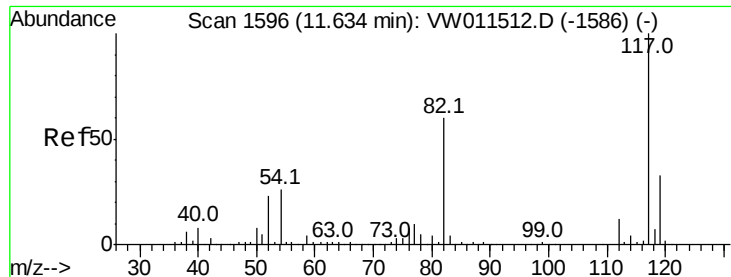
Tot Ion: 63 Resp: 5298
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.7 29.5#



#62
 4-Bromofluorobenzene
 Concen: 24.773 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VW011857.D
 Acq: 12 Aug 2019 17:23

Tgt Ion: 95 Resp: 57716
 Ion Ratio Lower Upper
 95 100
 174 76.8 0.0 150.2
 176 73.8 0.0 144.4

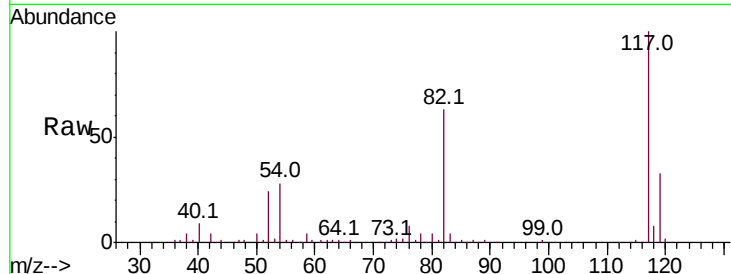




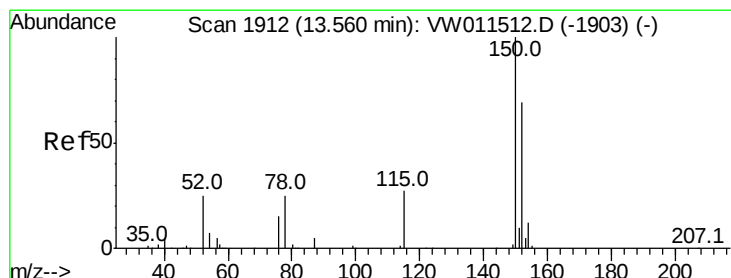
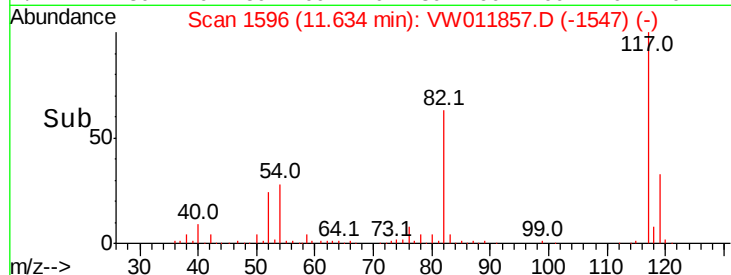
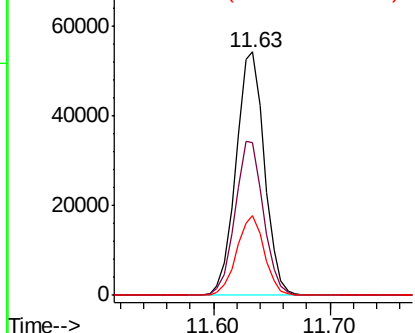
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011857.D
Acq: 12 Aug 2019 17:23

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 92154
Ion Ratio Lower Upper
117 100
82 62.7 47.9 71.9
119 32.6 26.2 39.2

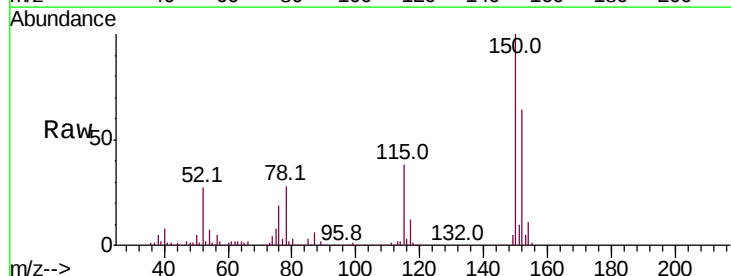


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VV
Ion 118.90 (118.60 to 119.60): V

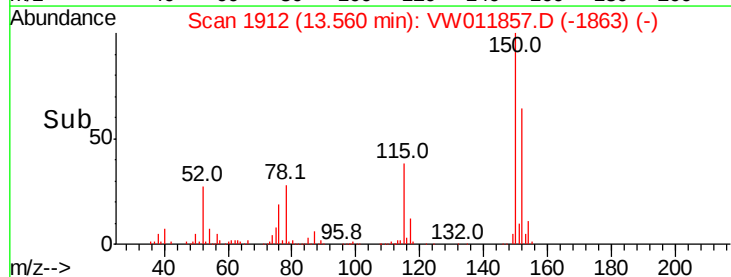
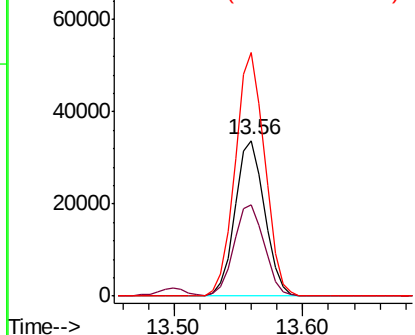


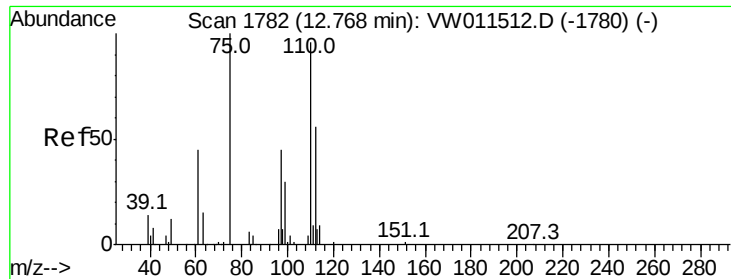
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW011857.D
Acq: 12 Aug 2019 17:23

Tgt Ion:152 Resp: 53578
Ion Ratio Lower Upper
152 100
115 60.2 30.5 91.5
150 157.4 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: 54.645 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

Instrument :

MSVOA_W

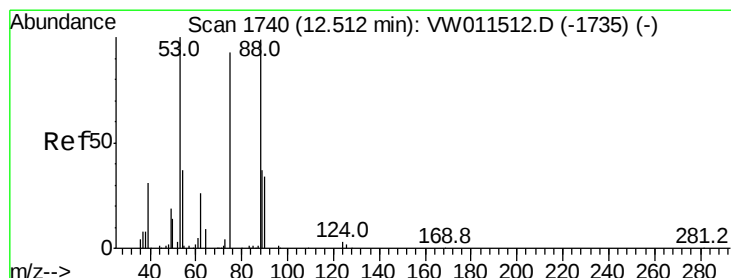
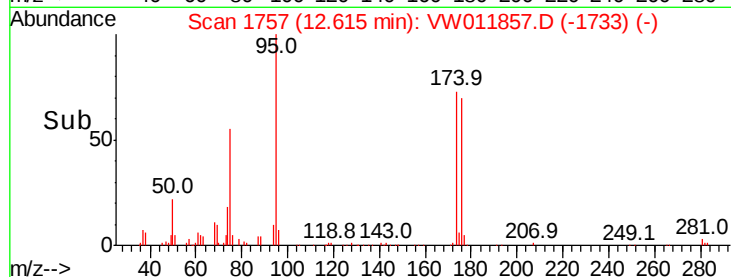
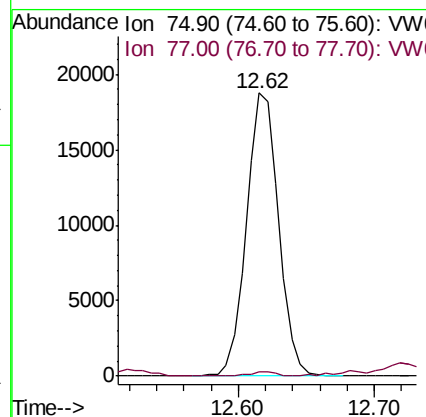
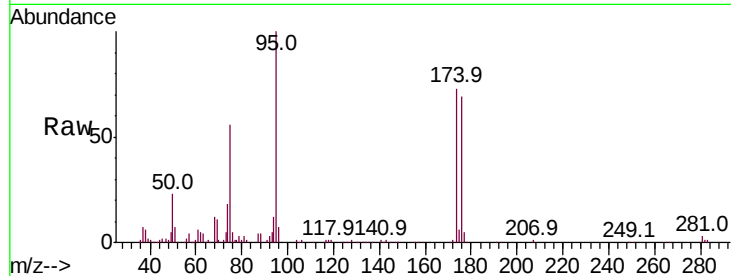
ClientSampleId :

Tot Ion: 75 Resp: 30979

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 125.937 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011857.D

Acq: 12 Aug 2019 17:23

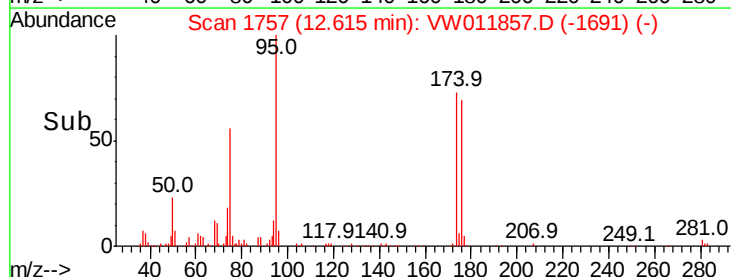
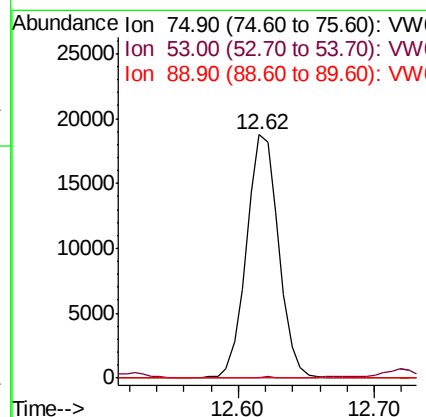
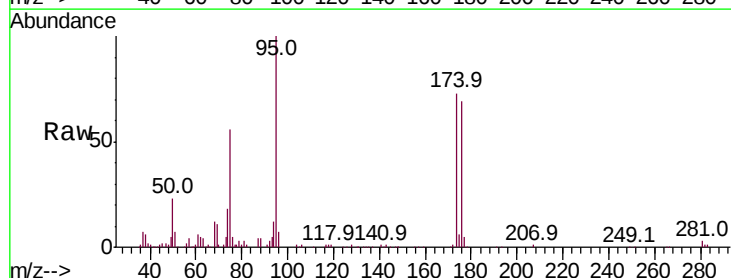
Tgt Ion: 75 Resp: 30979

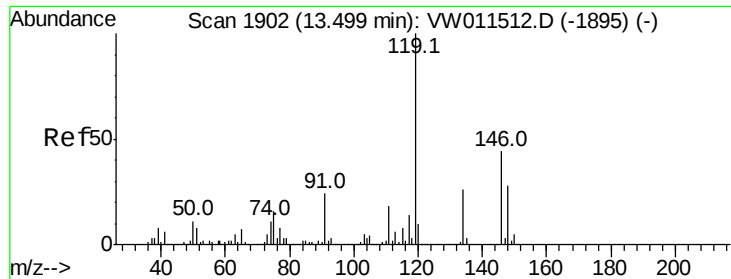
Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

89 0.0 35.3 52.9#

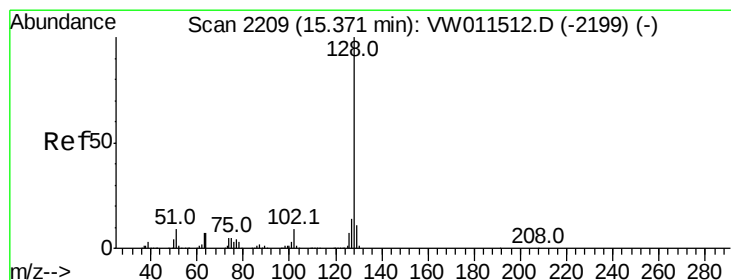
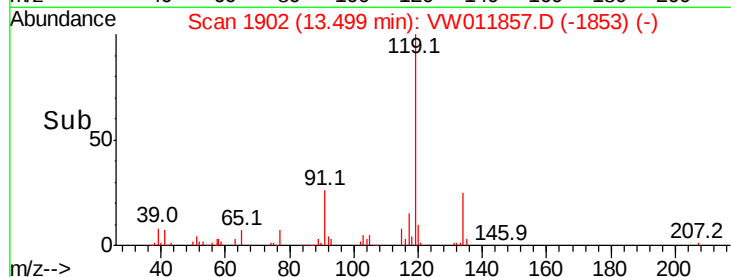
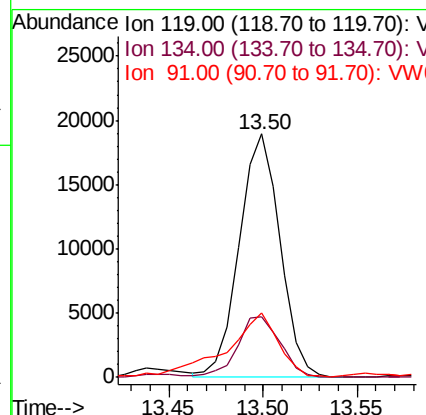
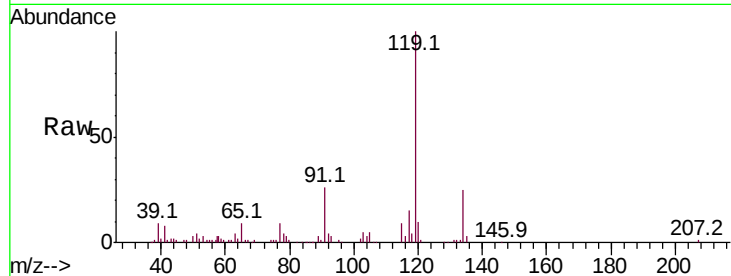




#86
p-Isopropyltoluene
Concen: 7.837 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW011857.D
Acq: 12 Aug 2019 17:23

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.8	38.4
91	35.2	12.1	36.3



#95
Naphthalene
Concen: 4.183 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011857.D
Acq: 12 Aug 2019 17:23

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.1	10.6	16.0
129	12.6	8.6	13.0

