

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091719\
 Data File : VW013096.D
 Acq On : 17 Sep 2019 17:47
 Operator : SY/VA
 Sample : K4846-09
 Misc : 4.99G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 18 05:34:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	308174	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	483446	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	399743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	174112	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	151201	53.12	ug/l	0.00
Spiked Amount			Recovery	=	106.24%	
35) Dibromofluoromethane	7.88	113	131433	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	10.32	98	552549	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
62) 4-Bromofluorobenzene	12.62	95	175189	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	

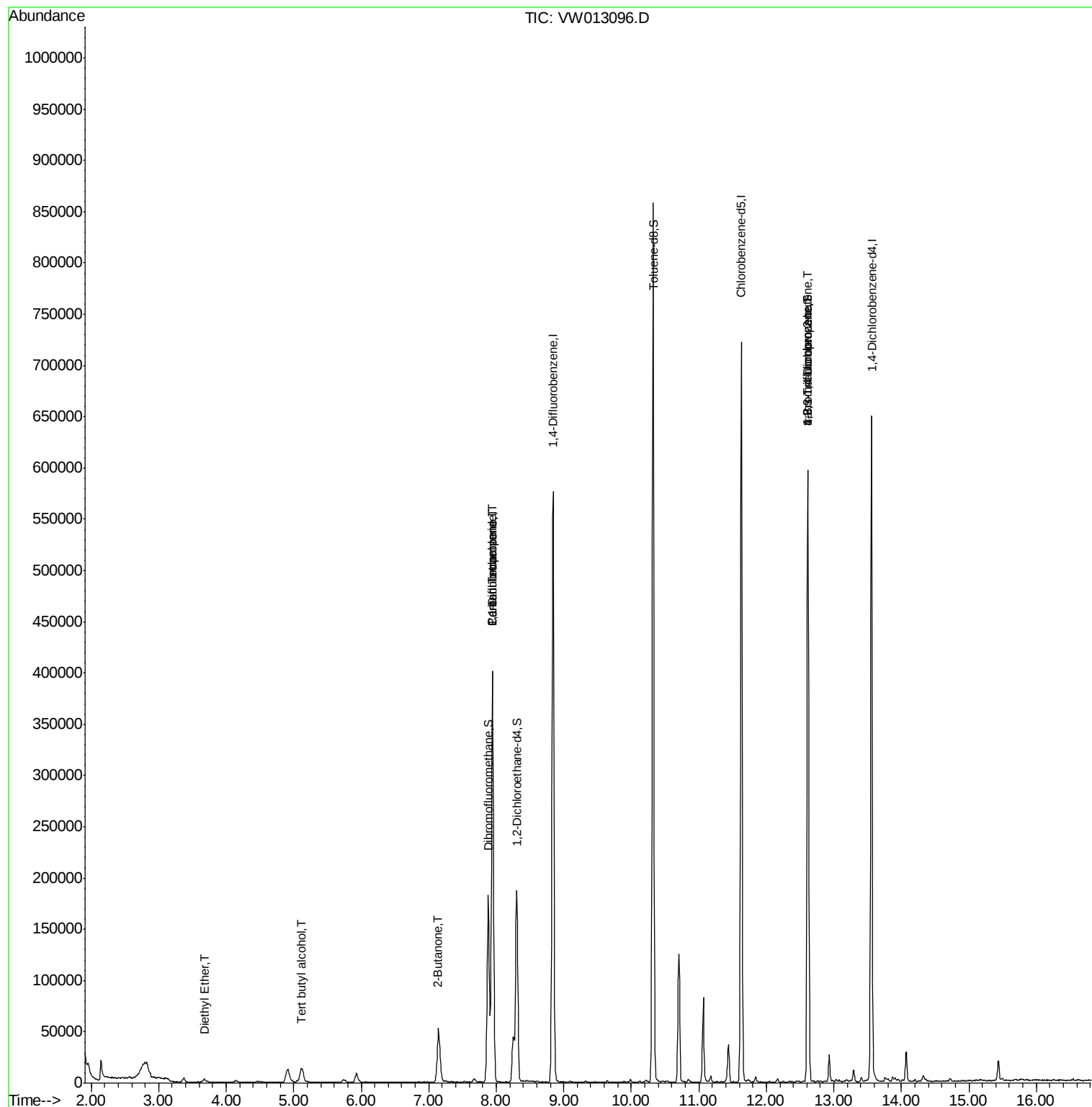
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	112	Below Cal	#	44
3) Chloromethane	2.20	50	208	Below Cal	#	41
8) Diethyl Ether	3.68	74	1408	1.169	ug/l #	1
11) Tert butyl alcohol	5.11	59	13774	54.982	ug/l #	74
13) Acrolein	4.01	56	41	Below Cal	#	77
16) Acetone	4.13	43	3071	Below Cal	#	84
20) Methylene Chloride	4.92	84	9515	Below Cal	#	96
25) 2-Butanone	7.13	43	1653	1.826	ug/l #	68
26) 2,2-Dichloropropane	7.15	77	3912	Below Cal	#	55
31) Cyclohexane	7.95	56	6706	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	23199	6.005	ug/l #	50
38) Carbon Tetrachloride	7.94	117	30149	7.616	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	90357	59.247	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	90357	134.401	ug/l #	7

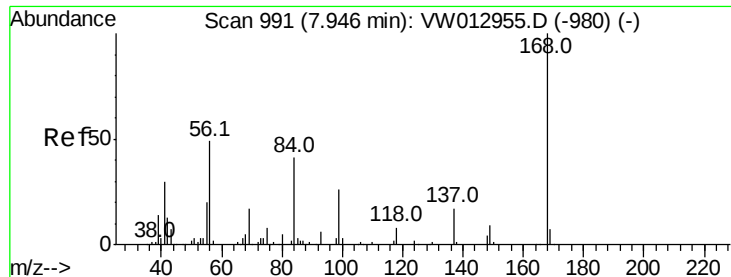
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013096.D

Acq: 17 Sep 2019 17:47

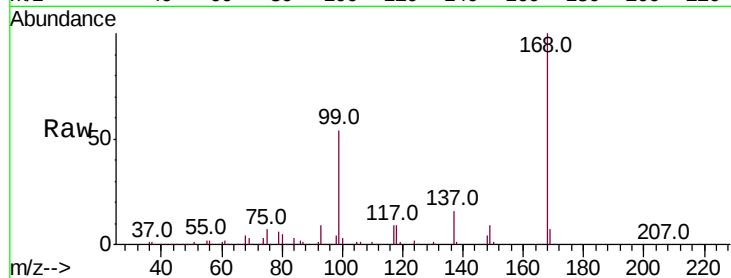
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 308174

Ion Ratio Lower Upper

168 100

99 53.8 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

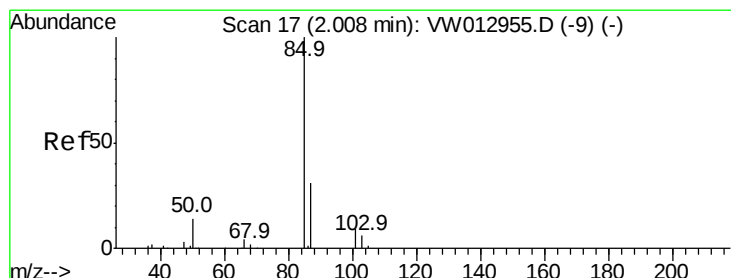
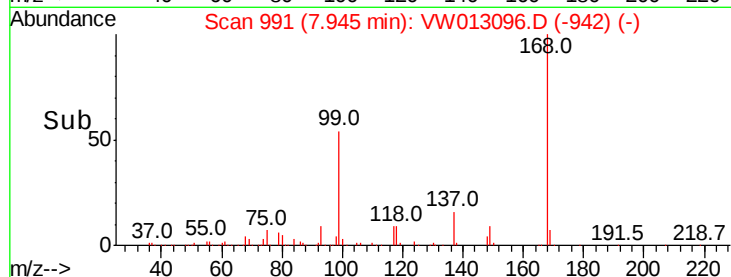
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013096.D

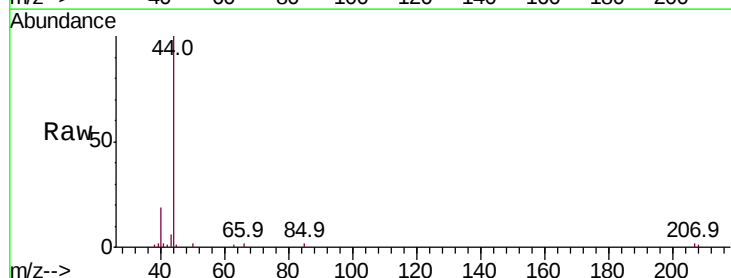
Acq: 17 Sep 2019 17:47

Tgt Ion: 85 Resp: 112

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

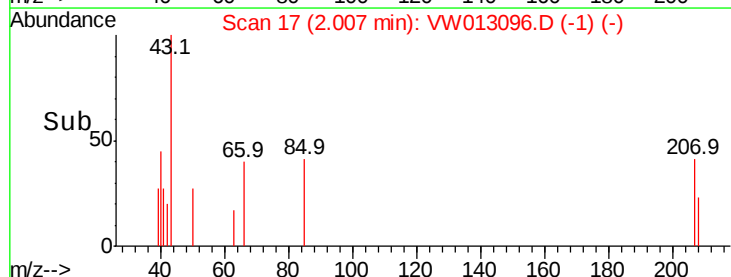
2.01

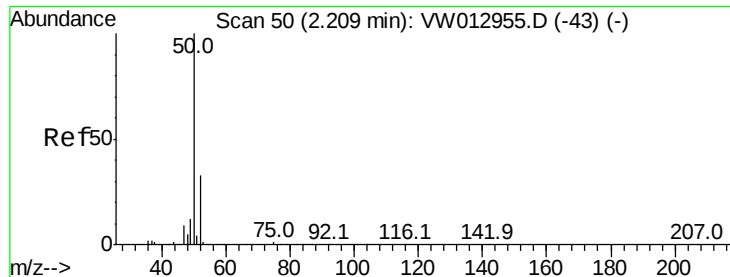
100

50

0

Time--> 1.96 1.98 2.00 2.02





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

Instrument :

MSVOA_W

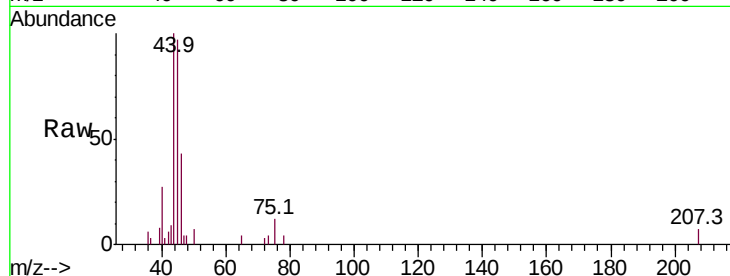
ClientSampled :

Tot Ion: 50 Resp: 208

Ion Ratio Lower Upper

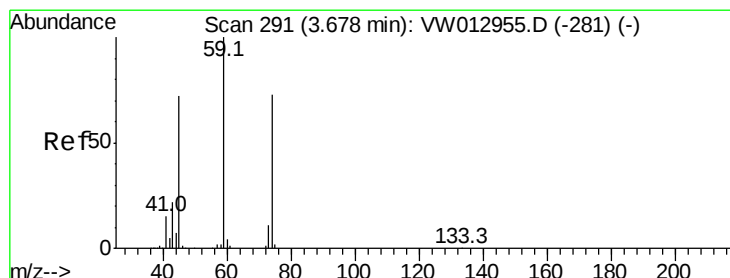
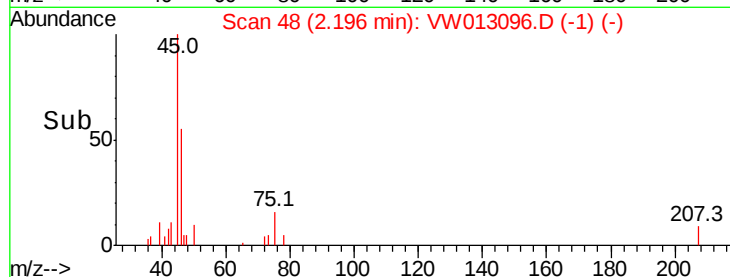
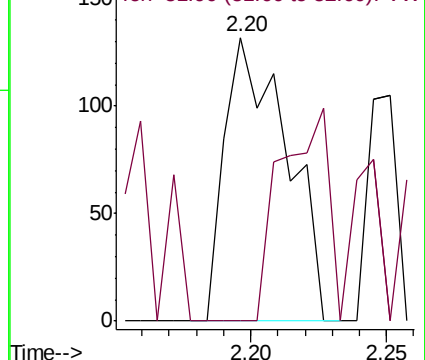
50 100

52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#8

Diethyl Ether

Concen: 1.169 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW013096.D

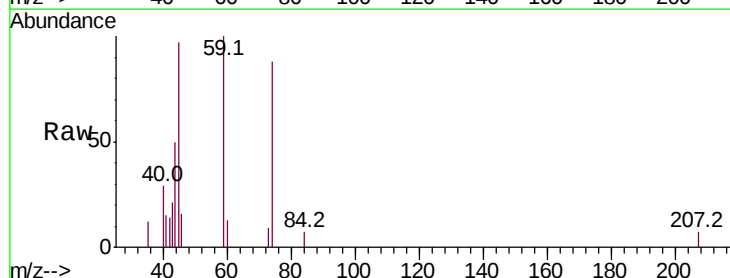
Acq: 17 Sep 2019 17:47

Tgt Ion: 74 Resp: 1408

Ion Ratio Lower Upper

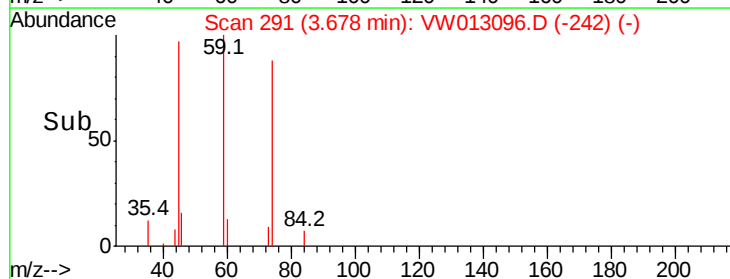
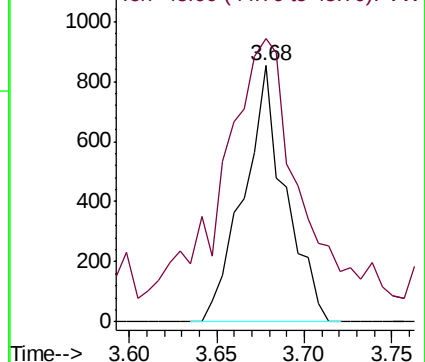
74 100

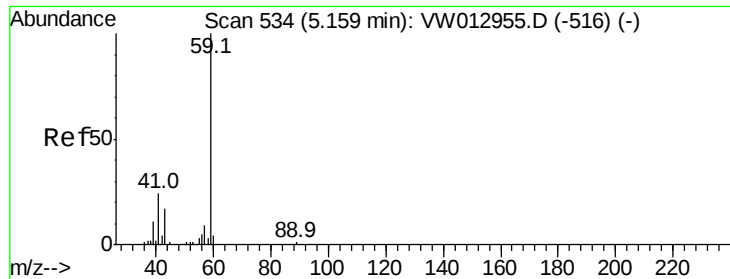
45 227.6 53.8 161.4#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



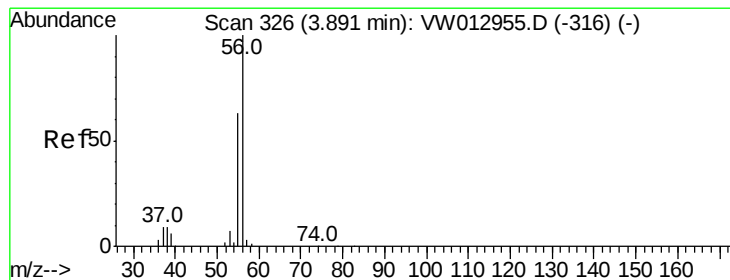
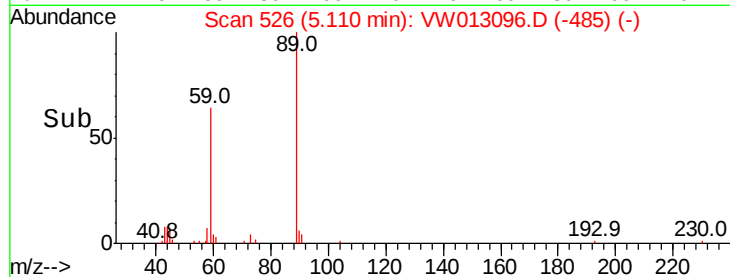
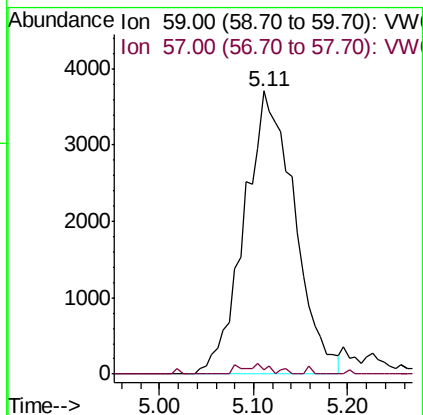
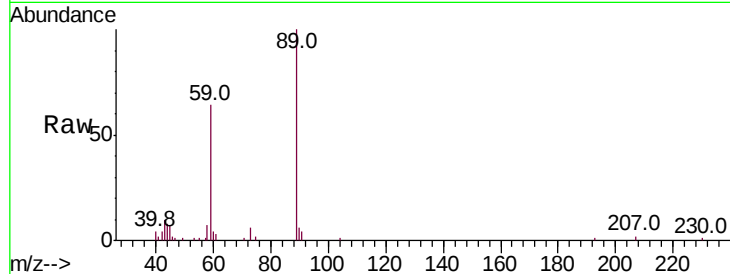


#11

Tert butyl alcohol
 Concen: 54.982 ug/l
 RT: 5.11 min Scan# 526
 Delta R.T. -0.05 min
 Lab File: VW013096.D
 Acq: 17 Sep 2019 17:47

Instrument :
 MSVOA_W
 ClientSampled :

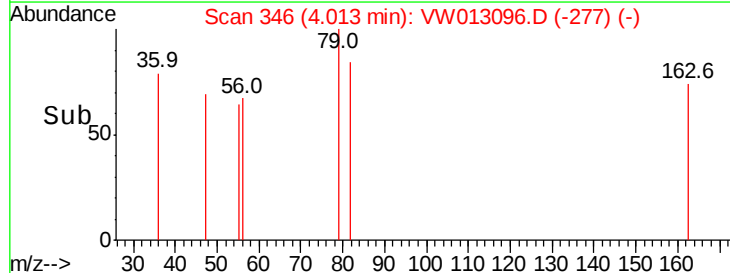
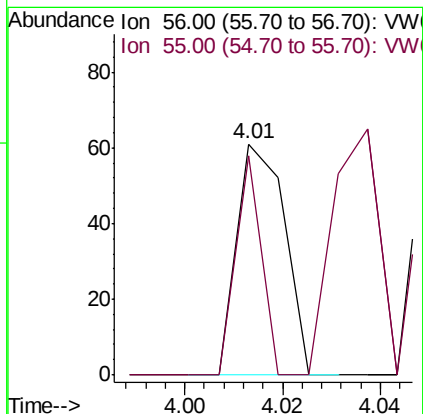
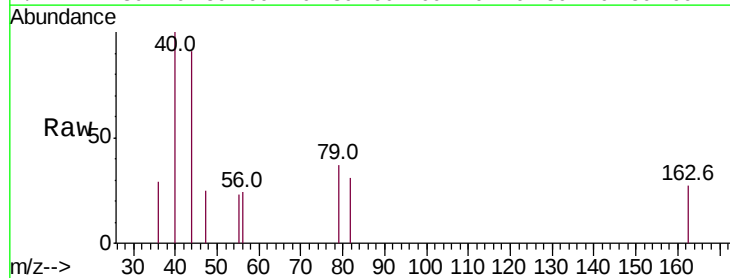
Tot Ion: 59 Resp: 13774
 Ion Ratio Lower Upper
 59 100
 57 0.8 8.5 12.7#

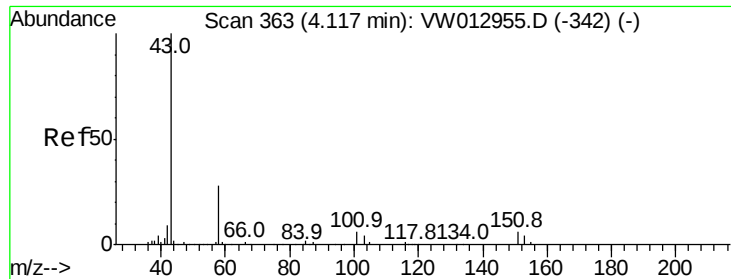


#13

Acrolein
 Concen: Below Cal
 RT: 4.01 min Scan# 346
 Delta R.T. 0.12 min
 Lab File: VW013096.D
 Acq: 17 Sep 2019 17:47

Tgt Ion: 56 Resp: 41
 Ion Ratio Lower Upper
 56 100
 55 51.2 55.8 83.8#

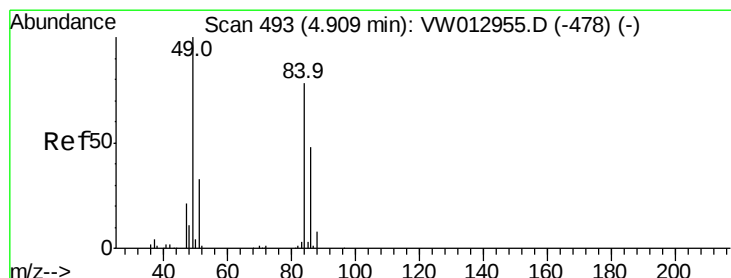
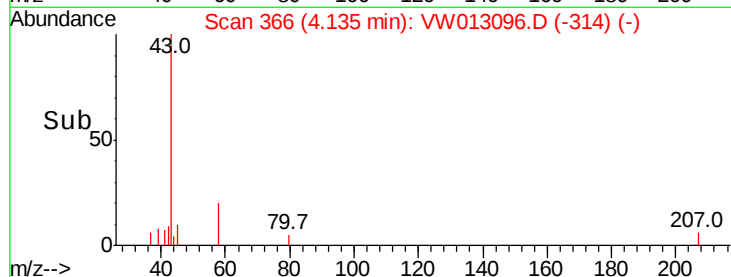
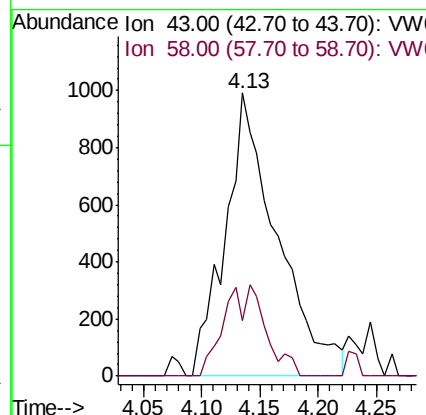
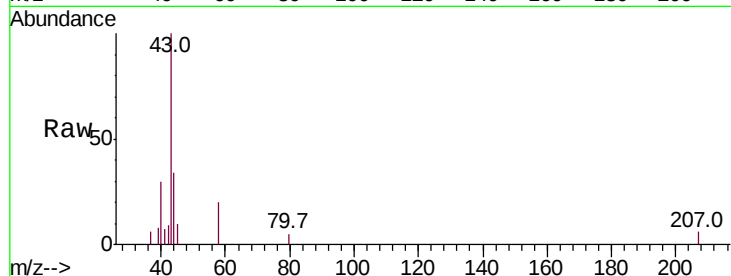




#16
Acetone
Concen: Below Cal
RT: 4.13 min Scan# 366
Delta R.T. 0.02 min
Lab File: VW013096.D
Acq: 17 Sep 2019 17:47

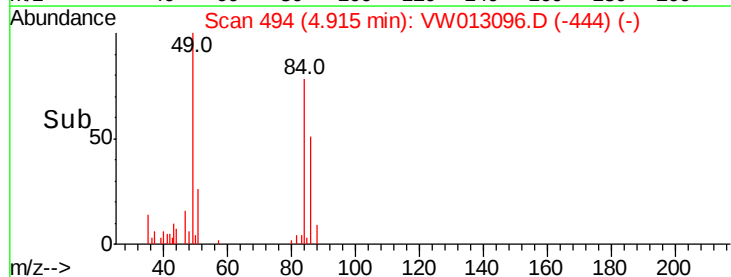
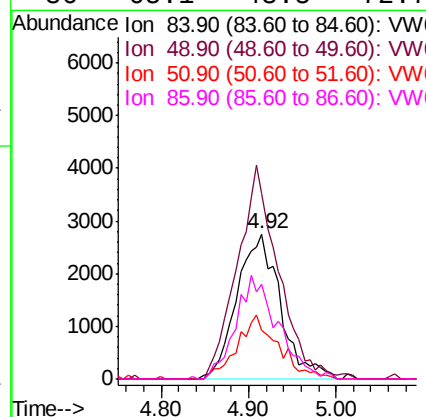
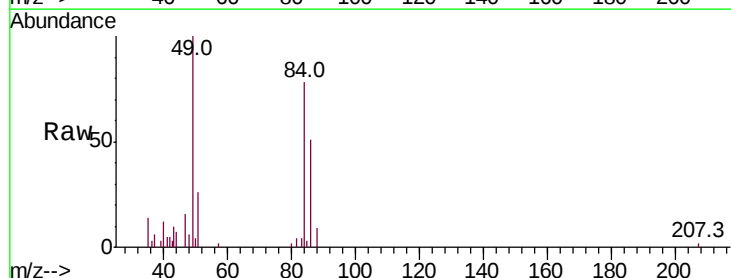
Instrument :
MSVOA_W
ClientSampled :

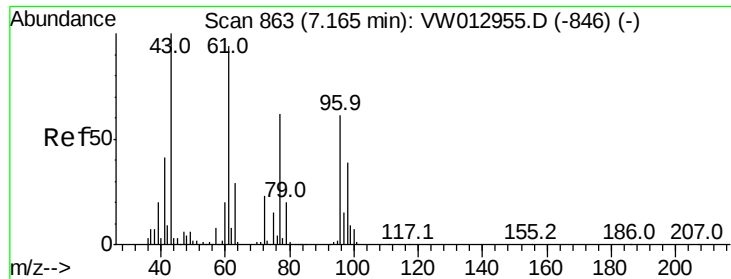
Tot Ion: 43 Resp: 3071
Ion Ratio Lower Upper
43 100
58 19.7 22.3 33.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW013096.D
Acq: 17 Sep 2019 17:47

Tgt Ion: 84 Resp: 9515
Ion Ratio Lower Upper
84 100
49 127.9 102.0 153.0
51 33.7 34.0 51.0#
86 65.1 48.5 72.7





#25

2-Butanone

Concen: 1.826 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

Instrument :

MSVOA_W

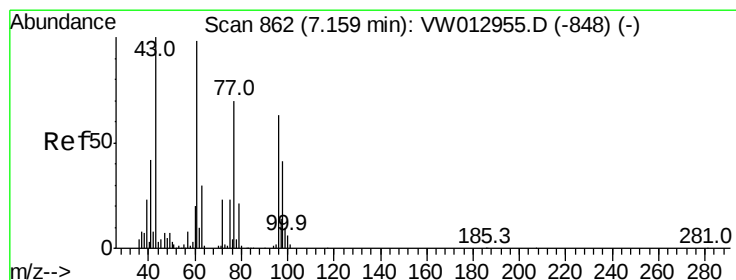
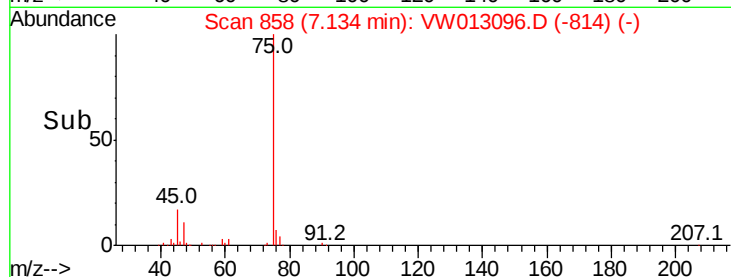
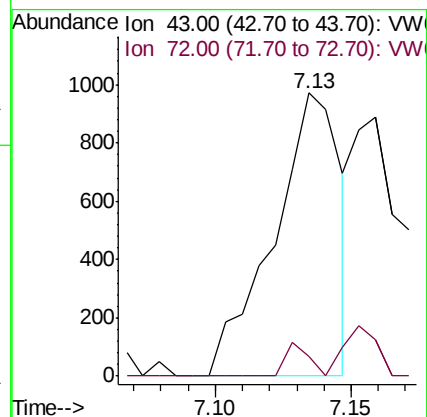
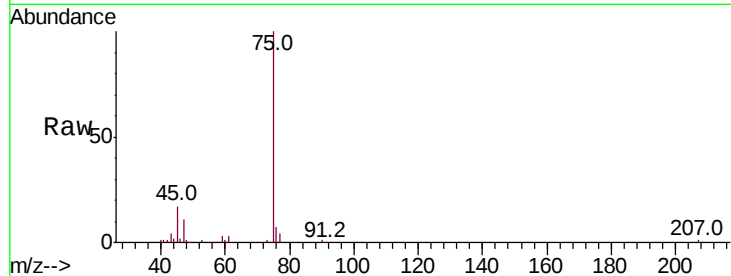
ClientSampled :

Tot Ion: 43 Resp: 1653

Ion Ratio Lower Upper

43 100

72 7.1 18.2 27.4#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013096.D

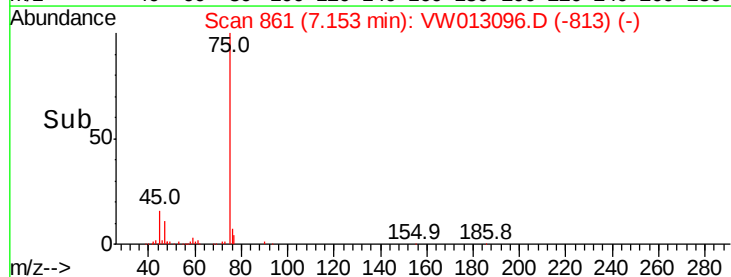
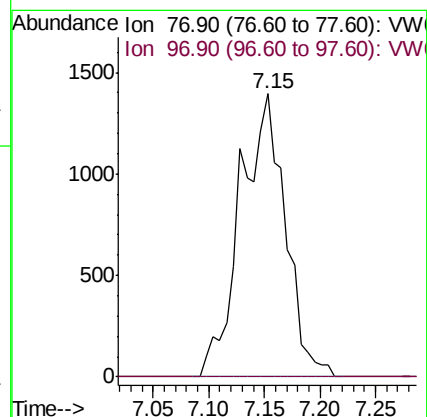
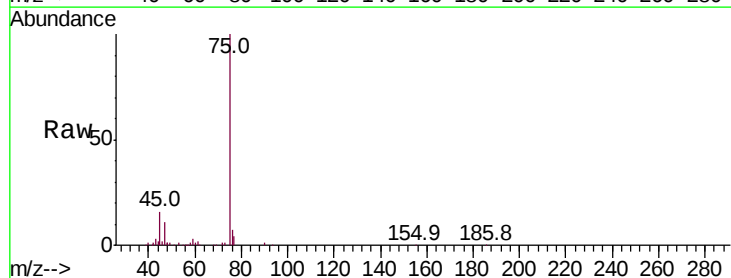
Acq: 17 Sep 2019 17:47

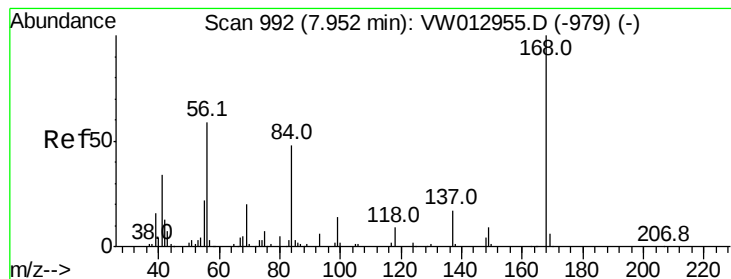
Tgt Ion: 77 Resp: 3912

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#





#31

Cyclohexane

Concen: Below Cal

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

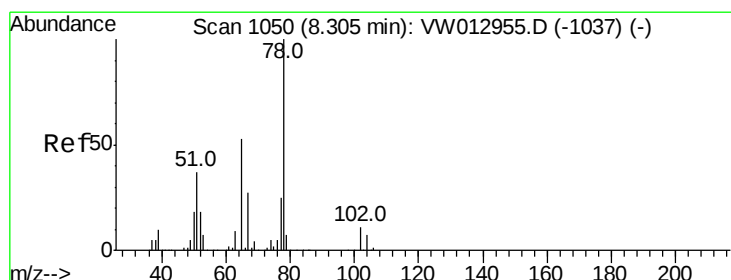
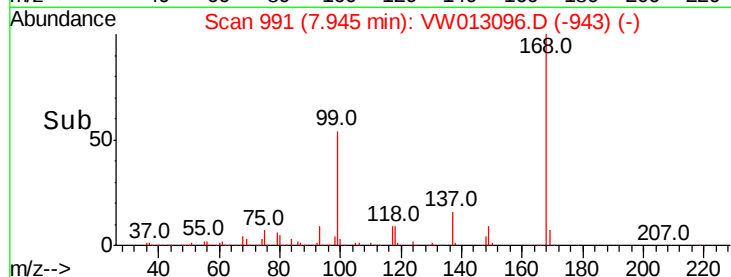
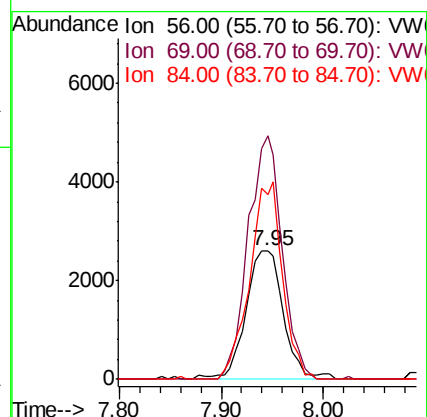
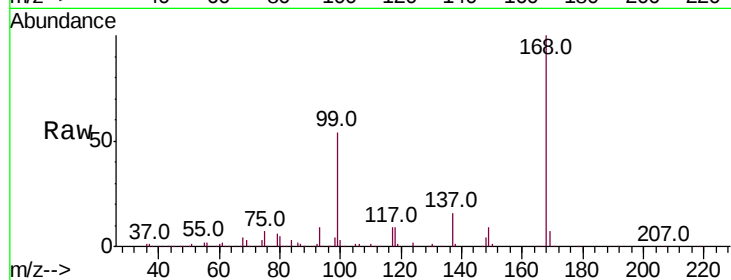
Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 56 Resp: 6706

Ion	Ratio	Lower	Upper
56	100		
69	189.1	27.0	40.6#
84	143.6	66.2	99.2#



#33

1,2-Dichloroethane-d4

Concen: 53.124 ug/l

RT: 8.30 min Scan# 1050

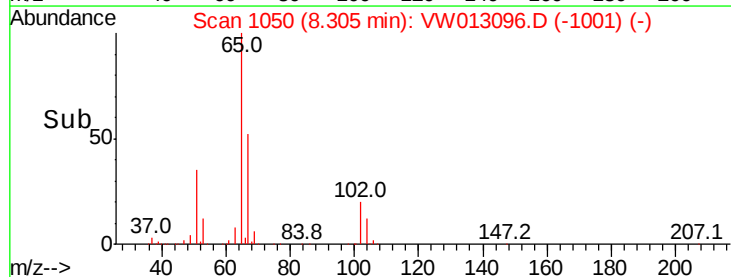
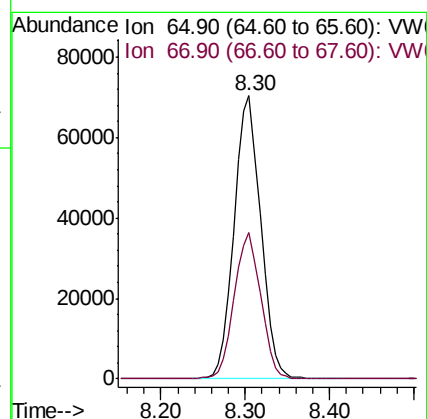
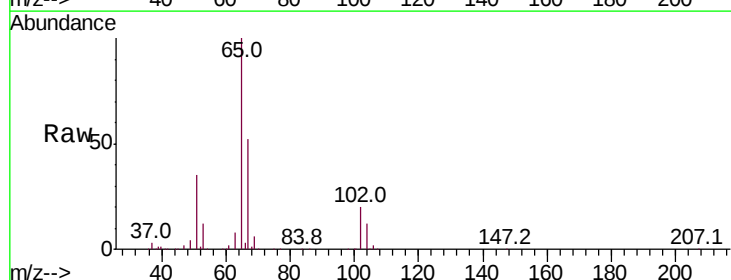
Delta R.T. -0.00 min

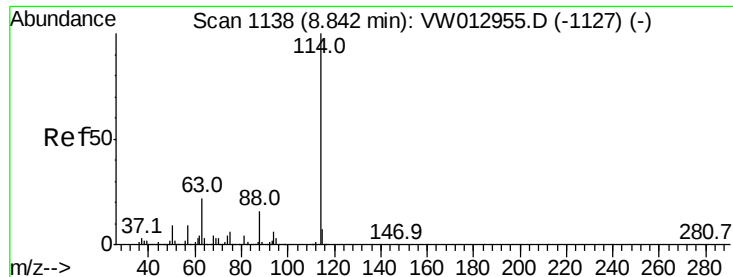
Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

Tgt Ion: 65 Resp: 151201

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	101.2

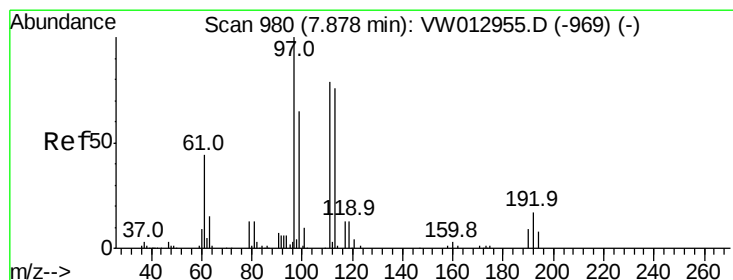
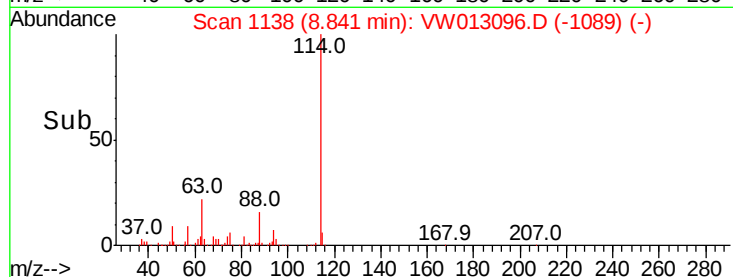
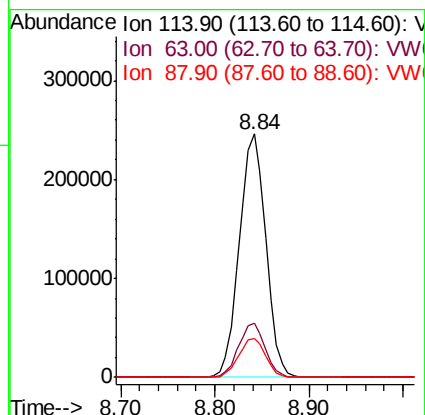
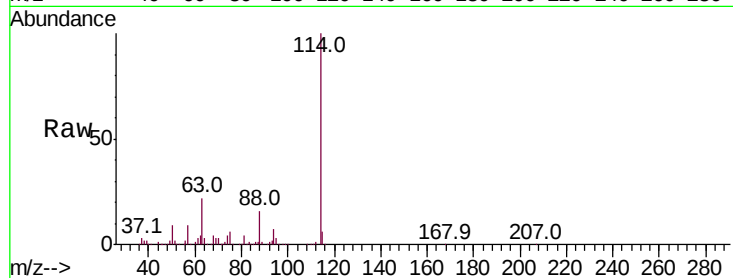




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013096.D
 Acq: 17 Sep 2019 17:47

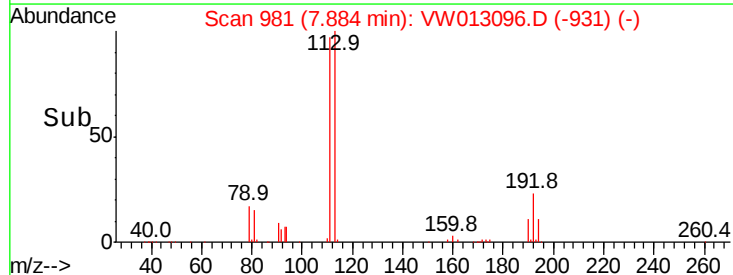
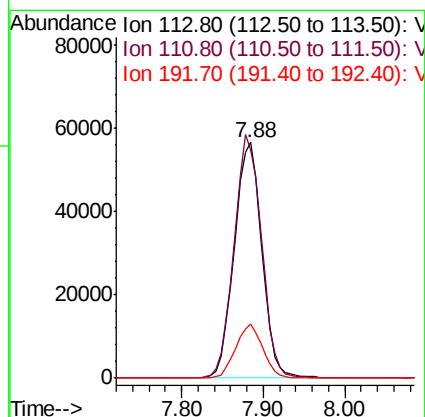
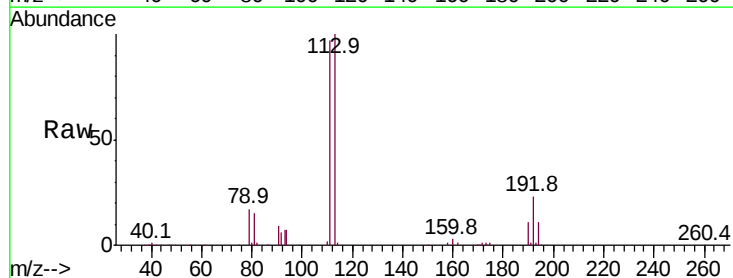
Instrument :
 MSVOA_W
 ClientSampleId :

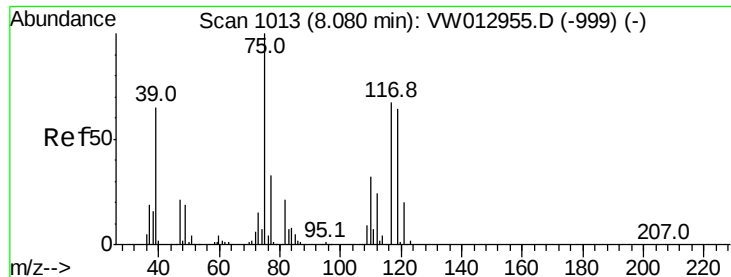
Tot Ion:114 Resp: 483446
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 43.4
 88 16.0 0.0 31.6



#35
 Dibromofluoromethane
 Concen: 50.103 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013096.D
 Acq: 17 Sep 2019 17:47

Tgt Ion:113 Resp: 131433
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.8 124.2
 192 22.5 17.8 26.8

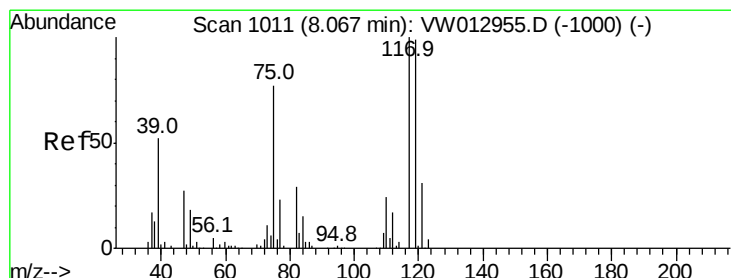
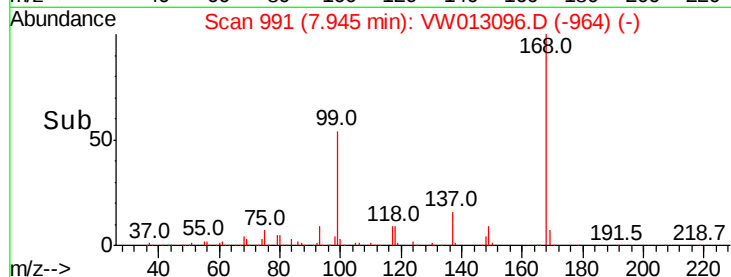
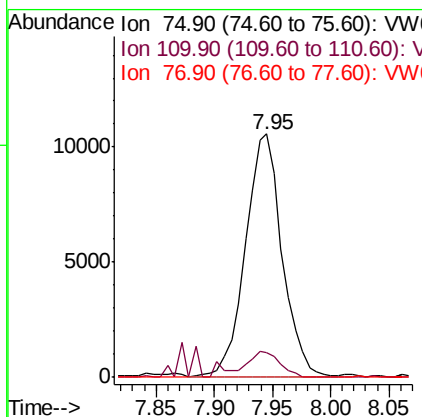
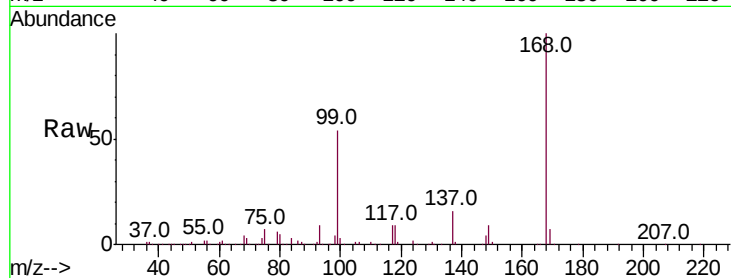




#36
 1,1-Dichloropropene
 Concen: 6.005 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013096.D
 Acq: 17 Sep 2019 17:47

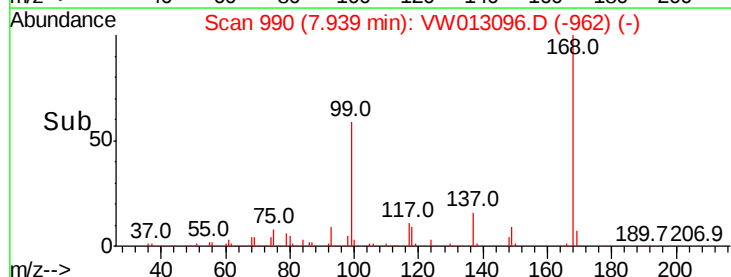
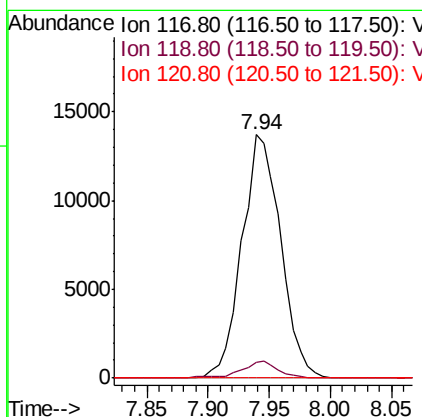
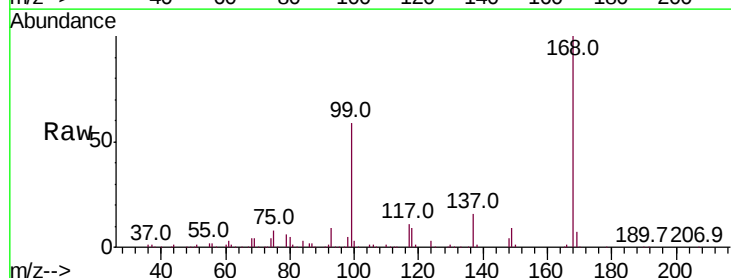
Instrument :
 MSVOA_W
 ClientSampled :

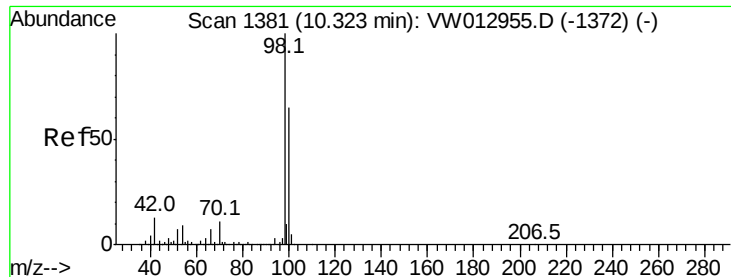
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.4	49.1#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 7.616 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.13 min
 Lab File: VW013096.D
 Acq: 17 Sep 2019 17:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	79.4	119.0#
121	0.0	24.6	36.8#

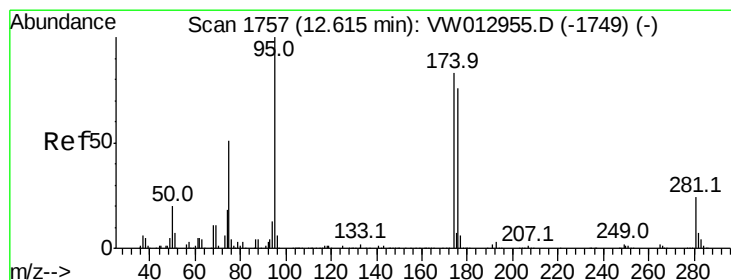
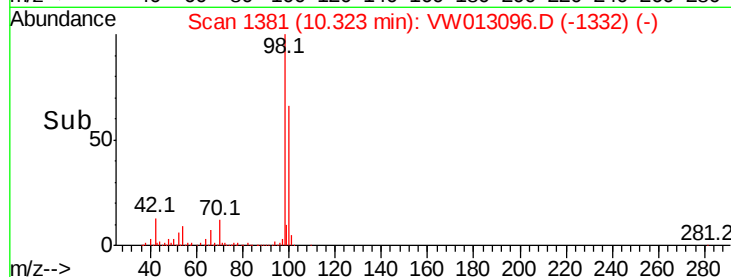
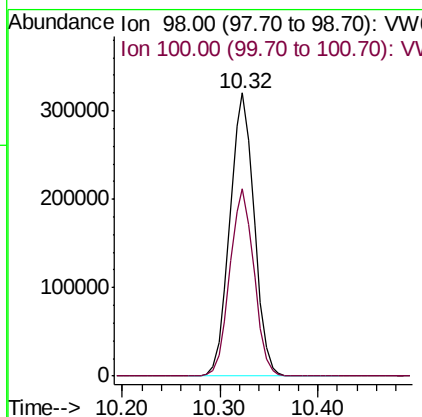
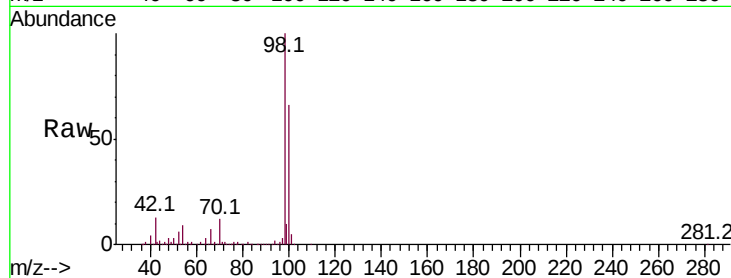




#50
Toluene-d8
Concen: 53.828 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013096.D
Acq: 17 Sep 2019 17:47

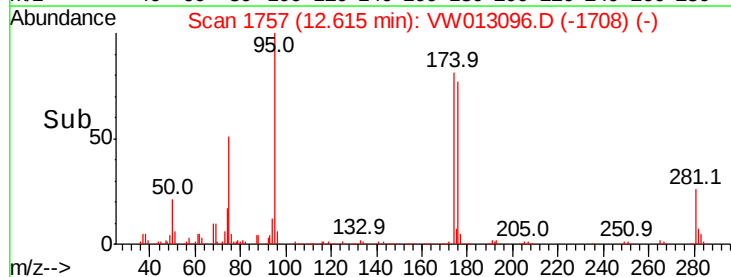
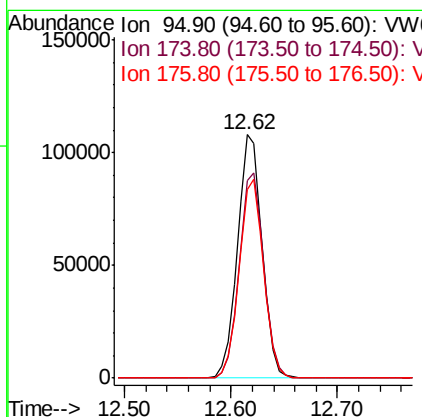
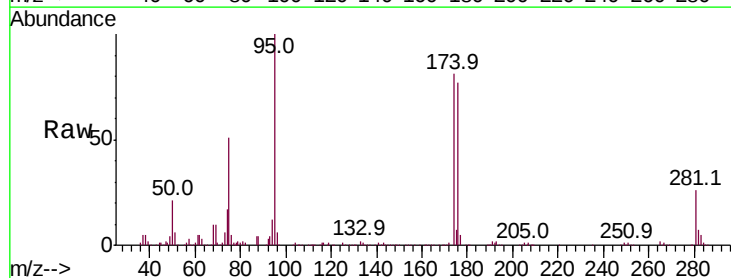
Instrument :
MSVOA_W
ClientSampleId :

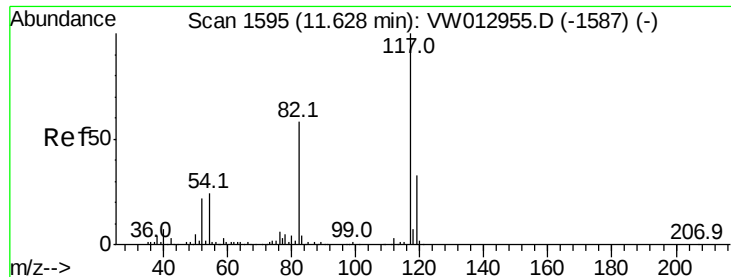
Tot Ion: 98 Resp: 552549
Ion Ratio Lower Upper
98 100
100 65.7 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 47.463 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013096.D
Acq: 17 Sep 2019 17:47

Tgt Ion: 95 Resp: 175189
Ion Ratio Lower Upper
95 100
174 84.2 0.0 170.4
176 81.1 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

Instrument :

MSVOA_W

ClientSampleId :

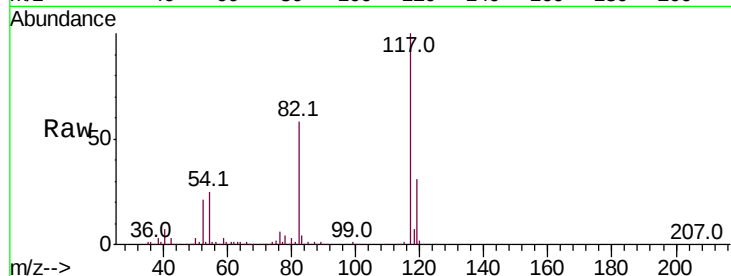
Tot Ion:117 Resp: 399743

Ion Ratio Lower Upper

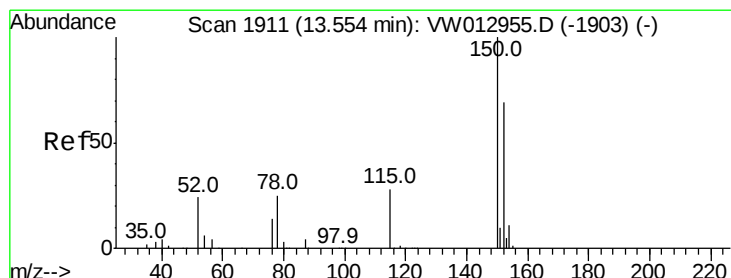
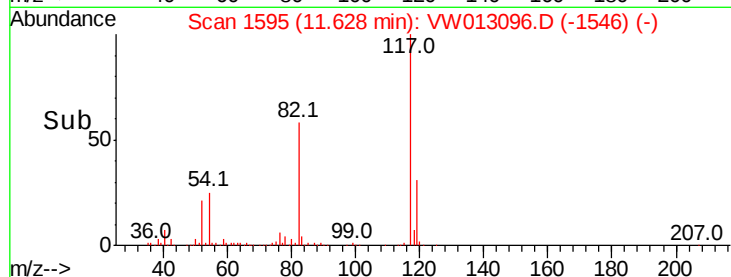
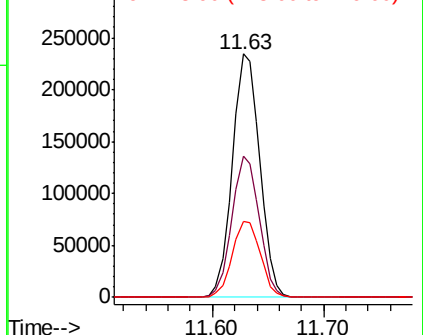
117 100

82 58.2 46.3 69.5

119 31.2 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
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. 0.01 min

Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

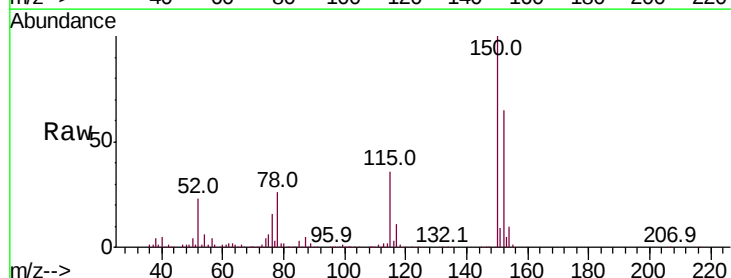
Tgt Ion:152 Resp: 174112

Ion Ratio Lower Upper

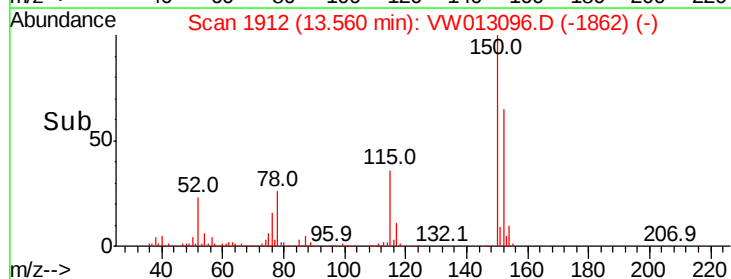
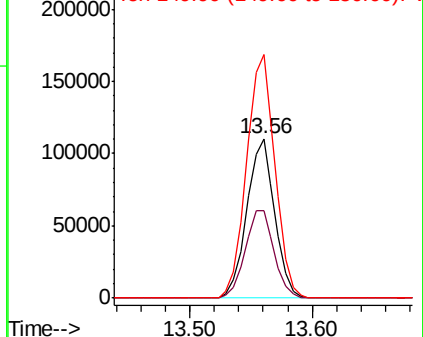
152 100

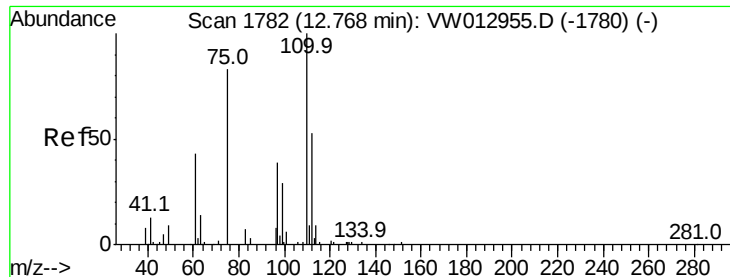
115 57.0 28.8 86.4

150 156.1 0.0 340.2



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: 59.247 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

Instrument :

MSVOA_W

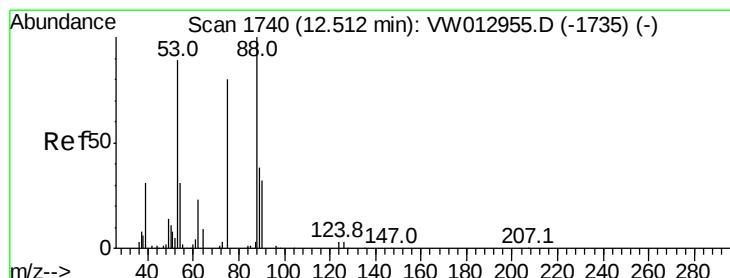
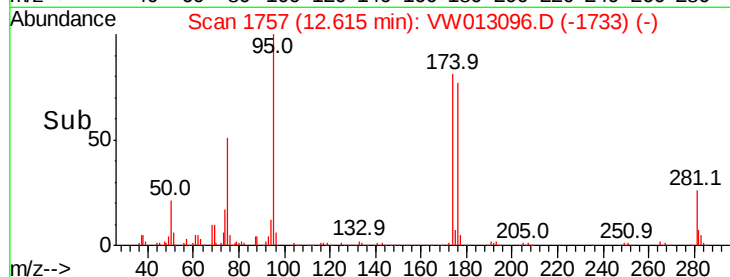
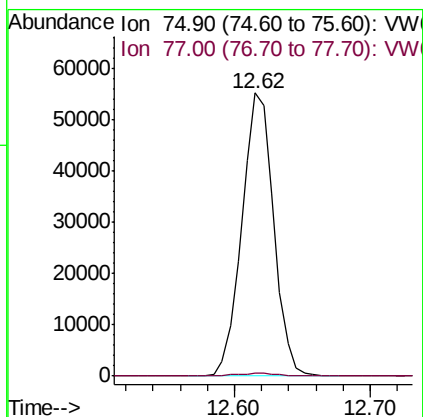
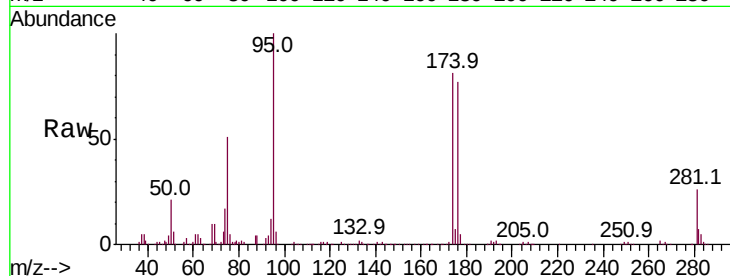
ClientSampleId :

Tot Ion: 75 Resp: 90357

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 134.401 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013096.D

Acq: 17 Sep 2019 17:47

Tgt Ion: 75 Resp: 90357

Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

89 0.3 37.2 55.8#

