

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091719\
 Data File : VW013090.D
 Acq On : 17 Sep 2019 15:12
 Operator : SY/VA
 Sample : K4861-06
 Misc : 4.75G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 18 05:33:20 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

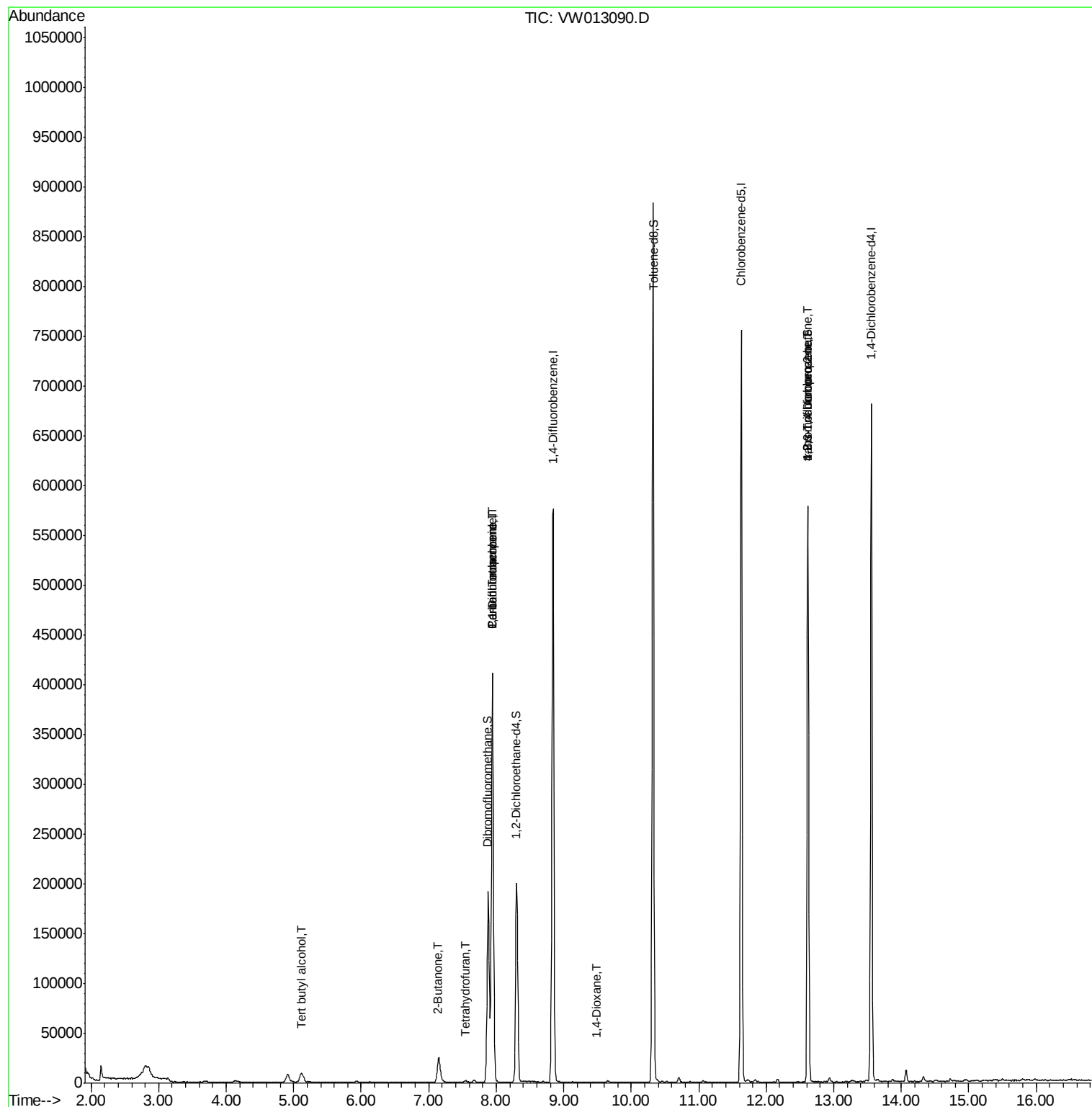
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	316596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	489488	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	412598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	184934	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	163268	55.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.68%	
35) Dibromofluoromethane	7.88	113	138740	52.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.48%	
50) Toluene-d8	10.32	98	577845	55.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.20%	
62) 4-Bromofluorobenzene	12.62	95	187266	50.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.22%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.19	85	26	Below Cal	#	44
3) Chloromethane	2.20	50	403	Below Cal	#	41
11) Tert butyl alcohol	5.12	59	9784	30.787 ug/l	#	74
13) Acrolein	3.90	56	22	Below Cal	#	15
16) Acetone	4.15	43	3237	Below Cal		94
20) Methylene Chloride	4.92	84	6321	Below Cal		90
25) 2-Butanone	7.13	43	1270	1.366 ug/l	#	53
26) 2,2-Dichloropropane	7.14	77	1926	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	1553	2.932 ug/l	#	87
31) Cyclohexane	7.94	56	6251	Below Cal	#	1
36) 1,1-Dichloropropene	7.94	75	23448	5.995 ug/l	#	51
38) Carbon Tetrachloride	7.95	117	29470	7.352 ug/l	#	15
49) 1,4-Dioxane	9.48	88	24	1.030 ug/l	#	1
76) 1,2,3-Trichloropropane	12.62	75	95380	58.881 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.62	75	95380	133.571 ug/l	#	7

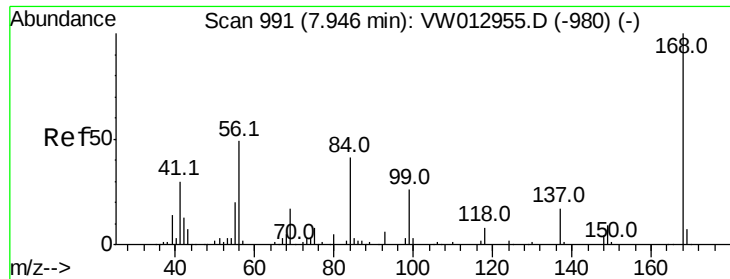
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013090.D

Acq: 17 Sep 2019 15:12

Instrument :

MSVOA_W

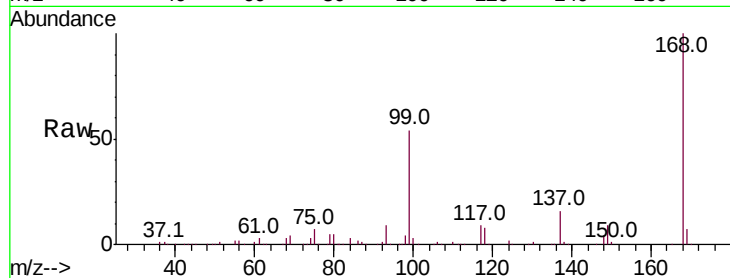
ClientSampleId :

Tot Ion:168 Resp: 316596

Ion Ratio Lower Upper

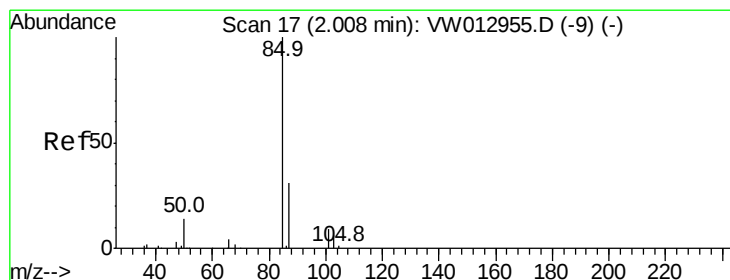
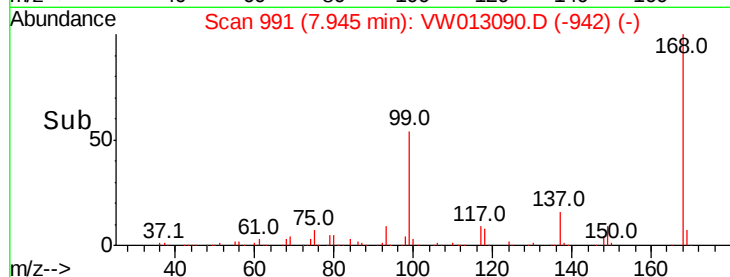
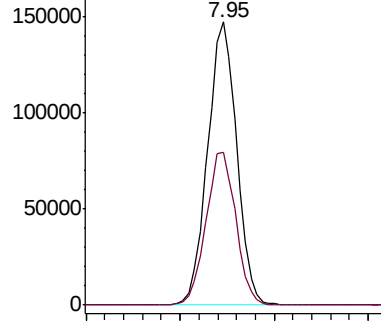
168 100

99 53.9 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.19 min Scan# 47

Delta R.T. 0.18 min

Lab File: VW013090.D

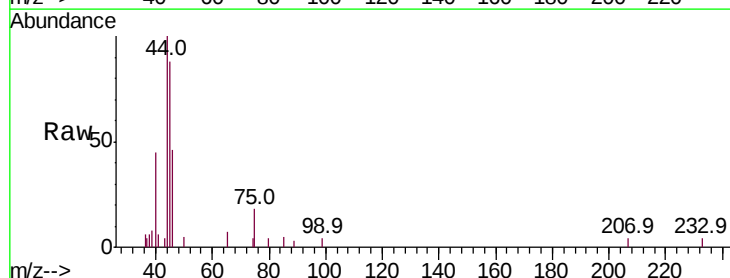
Acq: 17 Sep 2019 15:12

Tgt Ion: 85 Resp: 26

Ion Ratio Lower Upper

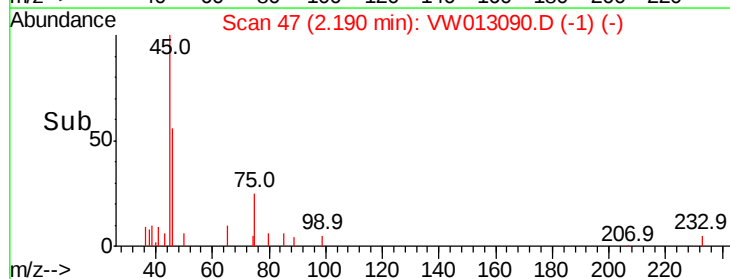
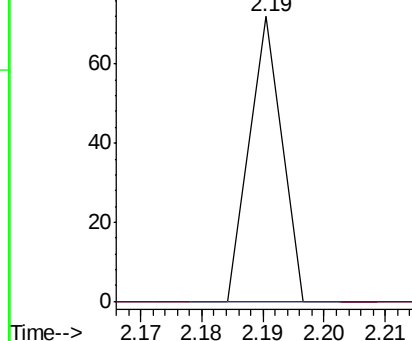
85 100

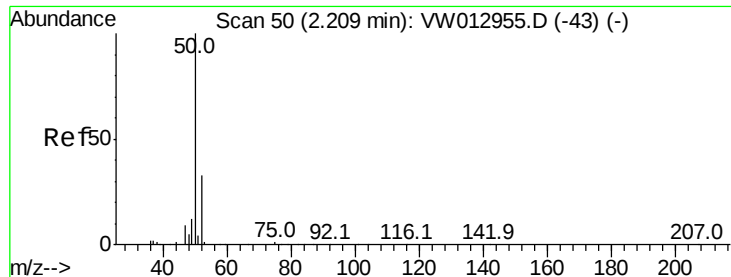
87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

Instrument :

MSVOA_W

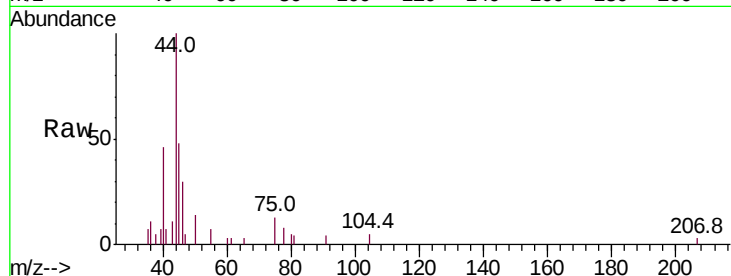
ClientSampleId :

Tot Ion: 50 Resp: 403

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

2.20

250

200

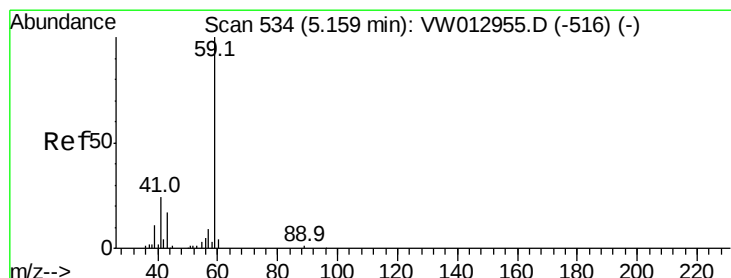
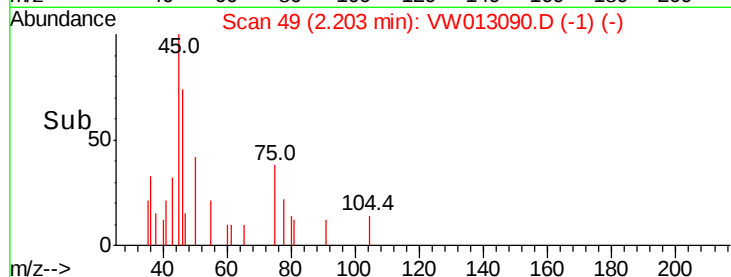
150

100

50

0

Time--> 2.15 2.20 2.25



#11

Tert butyl alcohol

Concen: 30.787 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013090.D

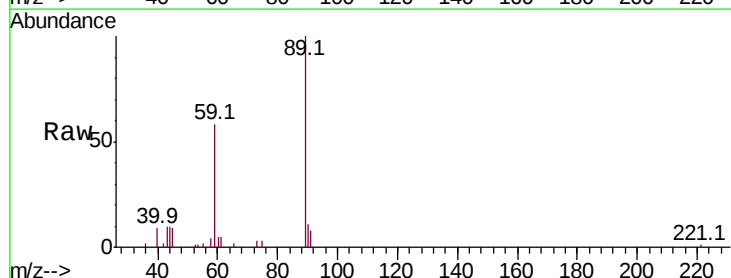
Acq: 17 Sep 2019 15:12

Tgt Ion: 59 Resp: 9784

Ion Ratio Lower Upper

59 100

57 1.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

2500

2000

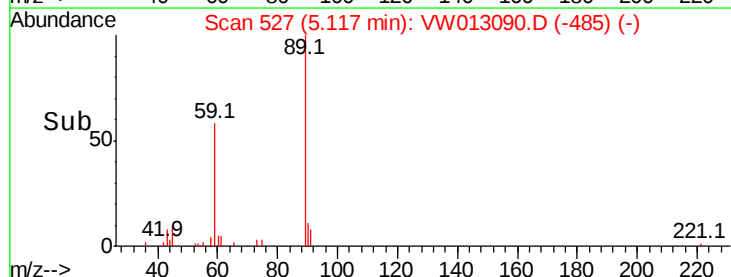
1500

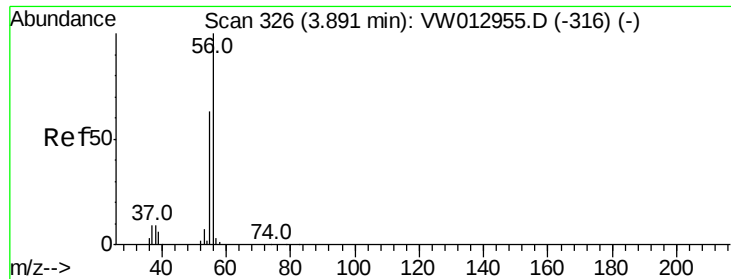
1000

500

0

Time--> 5.00 5.10 5.20





#13

Acrolein

Concen: Below Cal

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

Instrument :

MSVOA_W

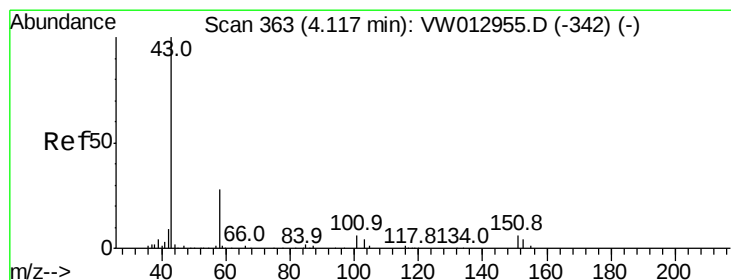
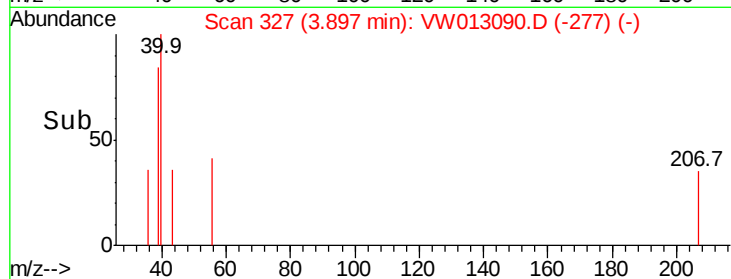
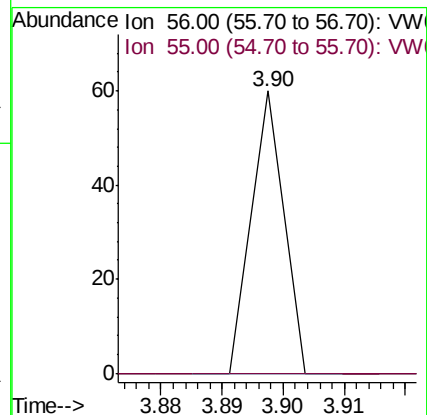
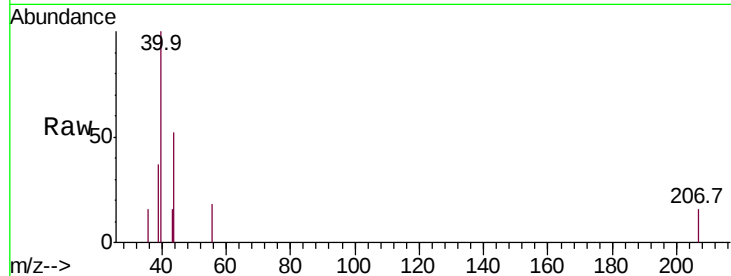
ClientSampleId :

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 368

Delta R.T. 0.03 min

Lab File: VW013090.D

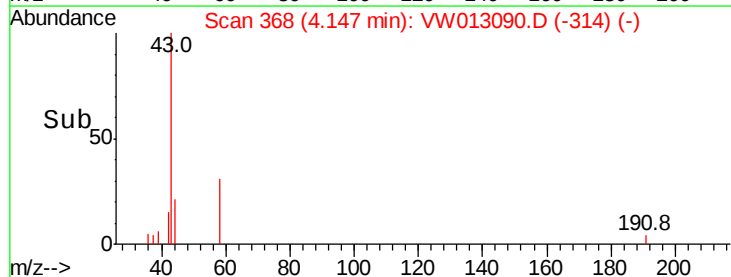
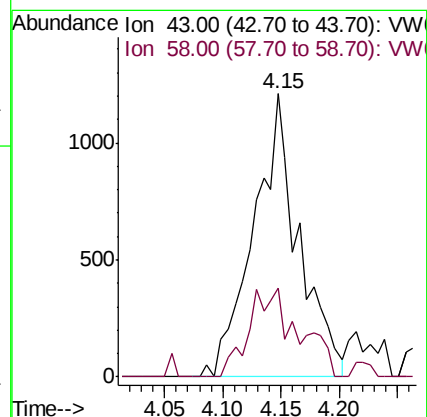
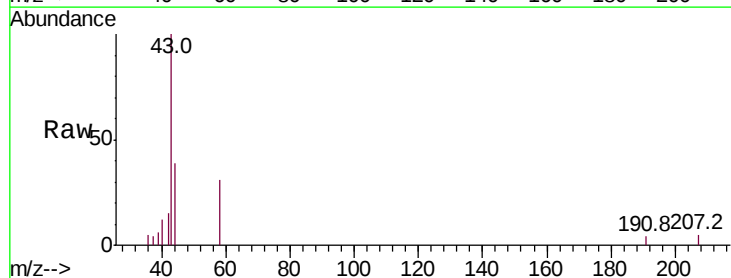
Acq: 17 Sep 2019 15:12

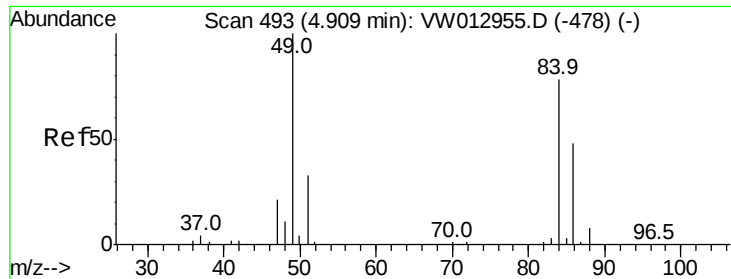
Tgt Ion: 43 Resp: 3237

Ion Ratio Lower Upper

43 100

58 31.3 22.3 33.5

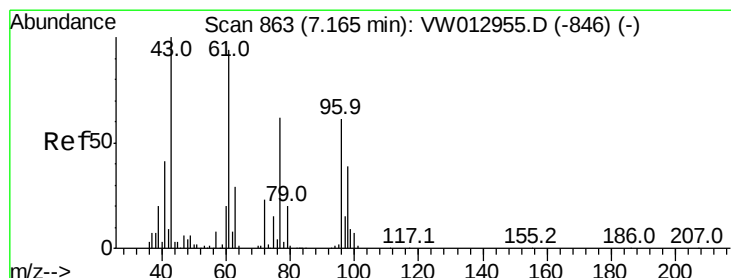
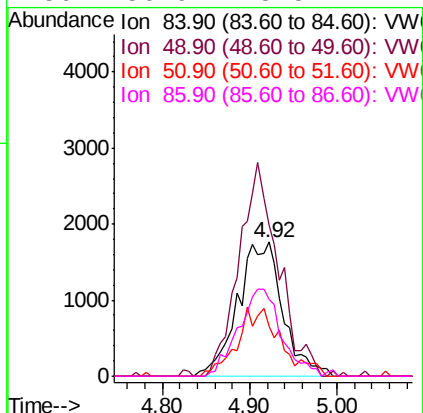
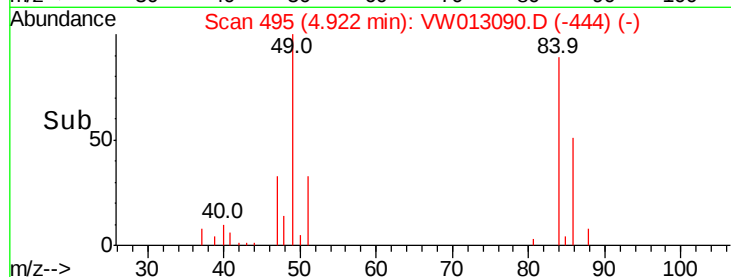
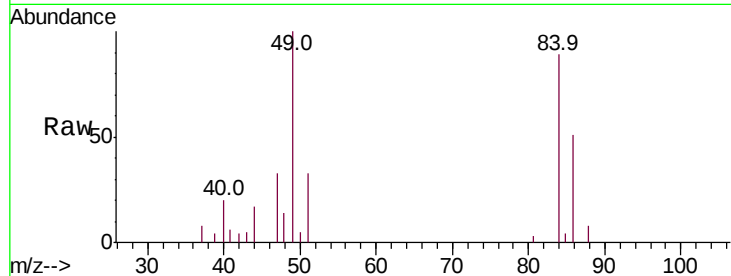




#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW013090.D
Acq: 17 Sep 2019 15:12

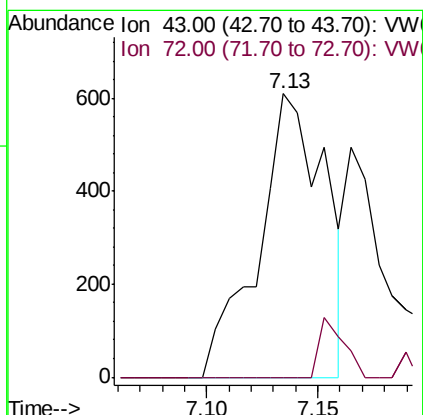
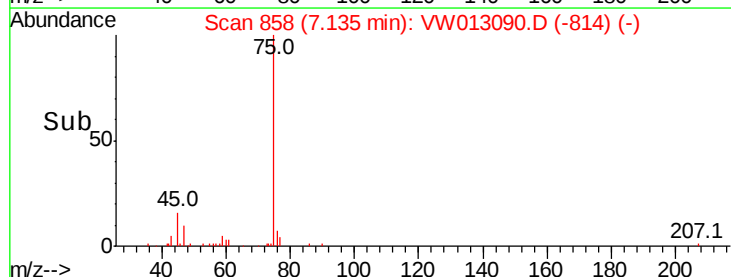
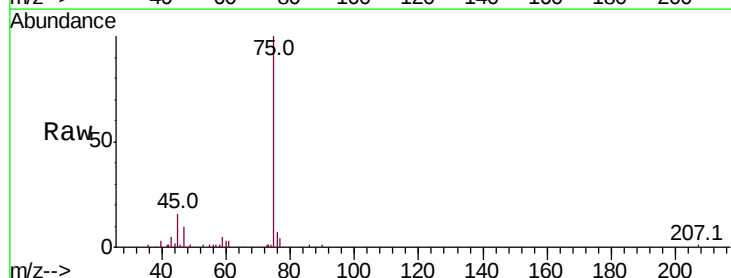
Instrument :
MSVOA_W
ClientSampleId :

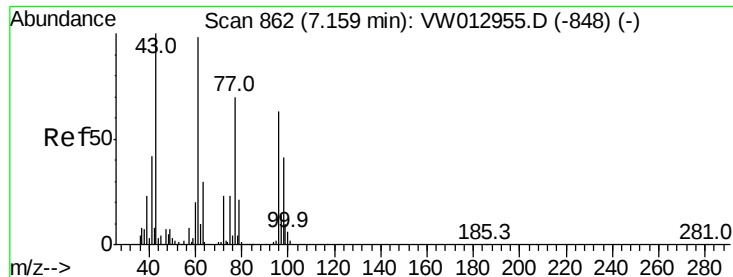
Tot Ion: 84 Resp: 6321
Ion Ratio Lower Upper
84 100
49 112.4 102.0 153.0
51 37.6 34.0 51.0
86 56.9 48.5 72.7



#25
2-Butanone
Concen: 1.366 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.03 min
Lab File: VW013090.D
Acq: 17 Sep 2019 15:12

Tgt Ion: 43 Resp: 1270
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

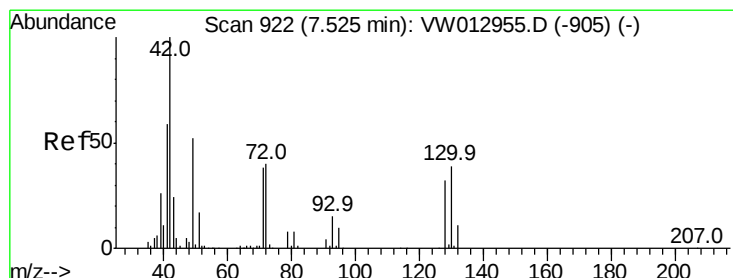
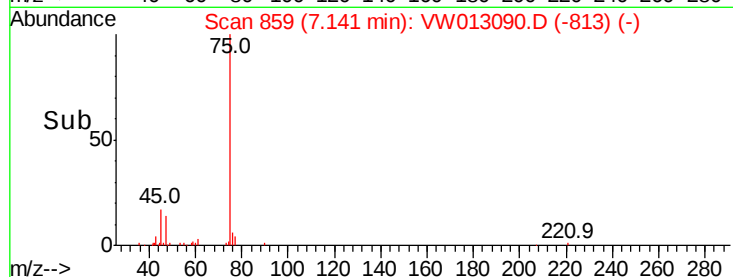
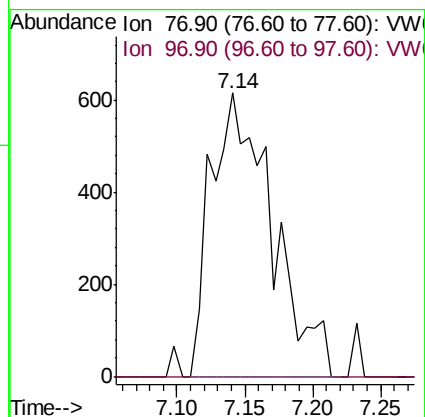
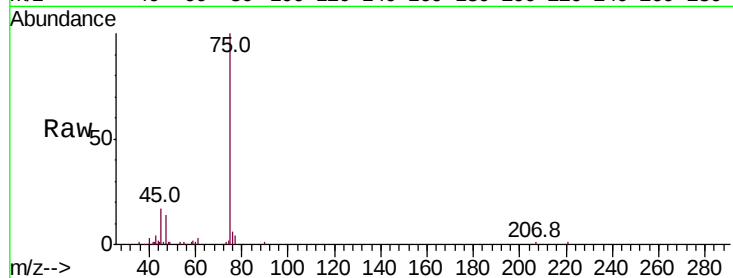
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 77 Resp: 1926

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#



#29

Tetrahydrofuran

Concen: 2.932 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.02 min

Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

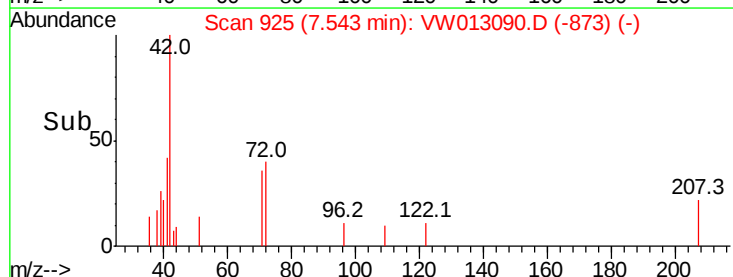
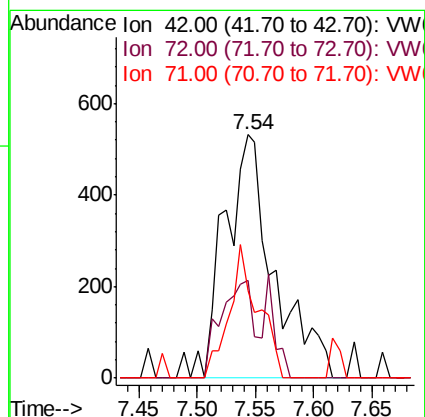
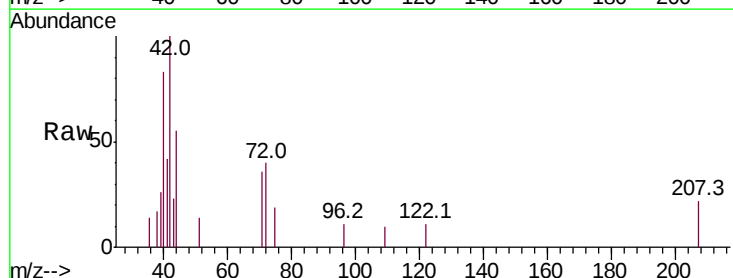
Tgt Ion: 42 Resp: 1553

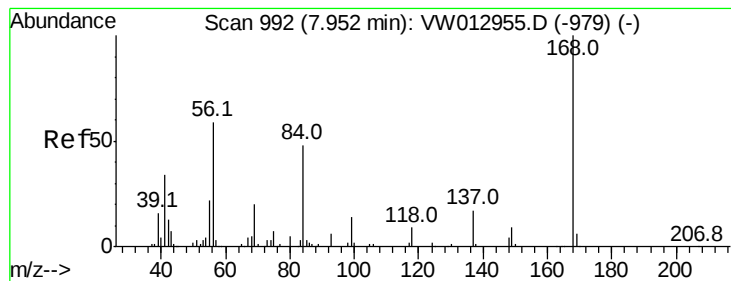
Ion Ratio Lower Upper

42 100

72 27.9 31.4 47.0#

71 32.5 29.8 44.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

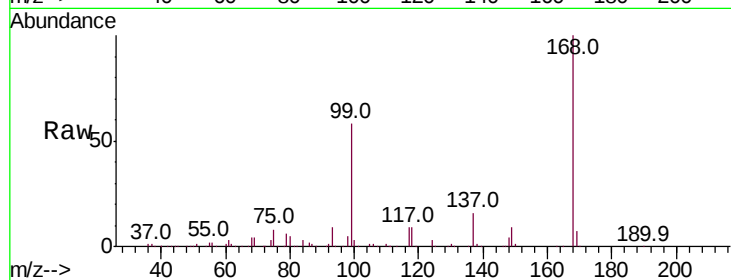
Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

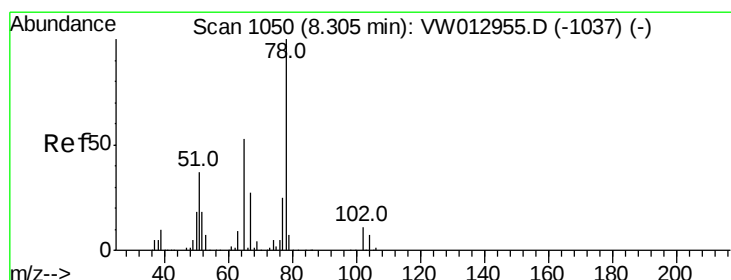
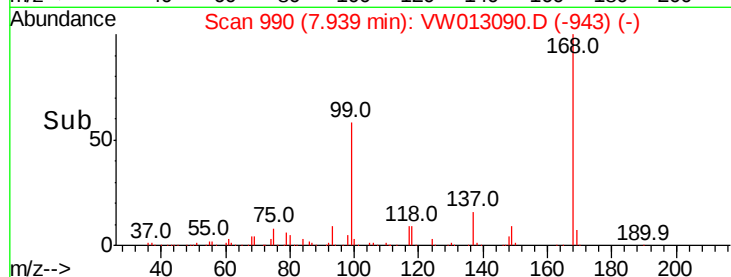
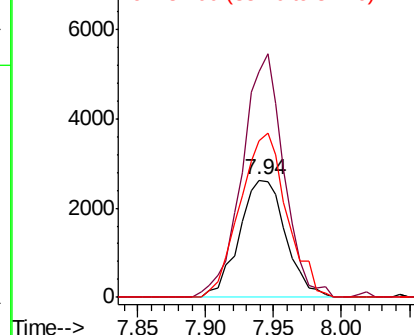
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 6251

Ion	Ratio	Lower	Upper
56	100		
69	192.4	27.0	40.6#
84	133.9	66.2	99.2#



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: 55.837 ug/l

RT: 8.30 min Scan# 1049

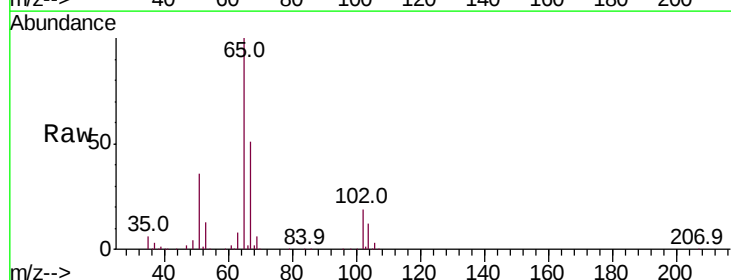
Delta R.T. -0.01 min

Lab File: VW013090.D

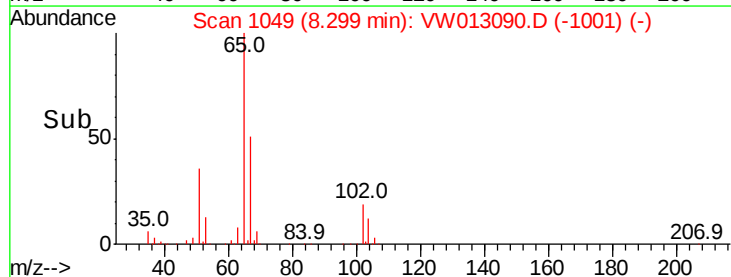
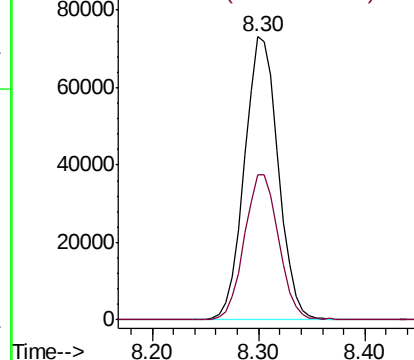
Acq: 17 Sep 2019 15:12

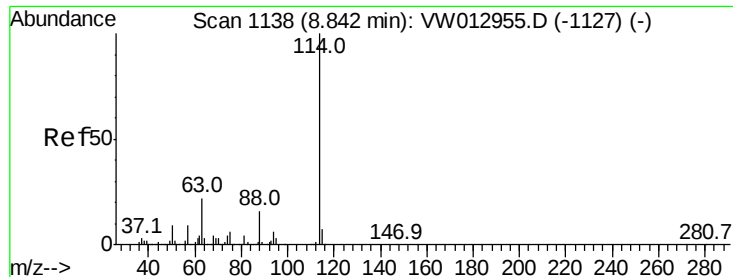
Tgt Ion: 65 Resp: 163268

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	101.2



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

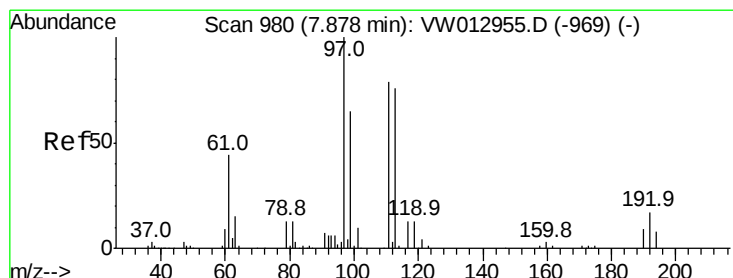
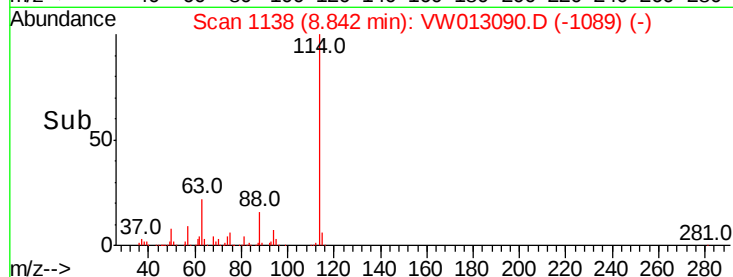
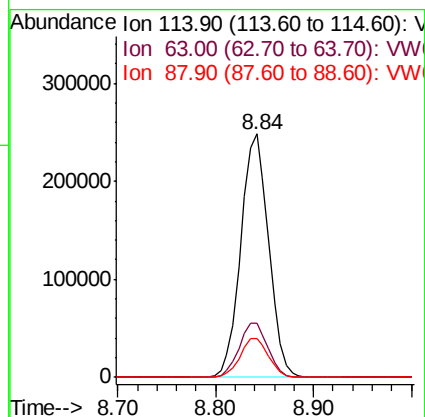
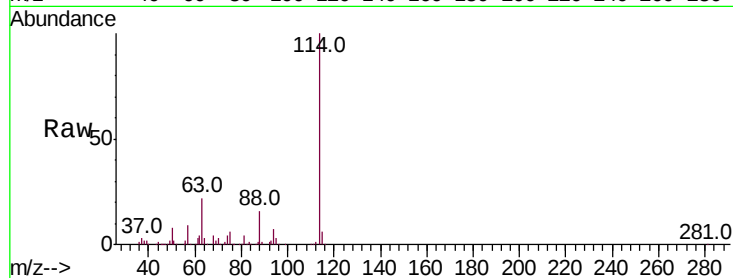




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013090.D
 Acq: 17 Sep 2019 15:12

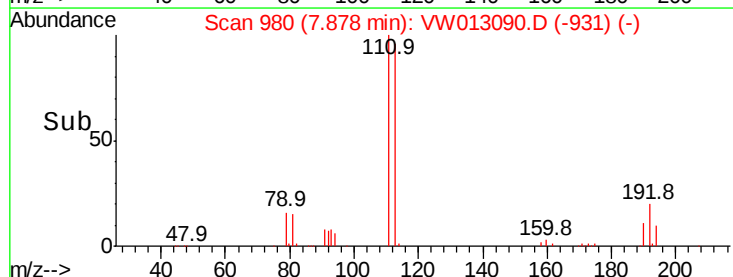
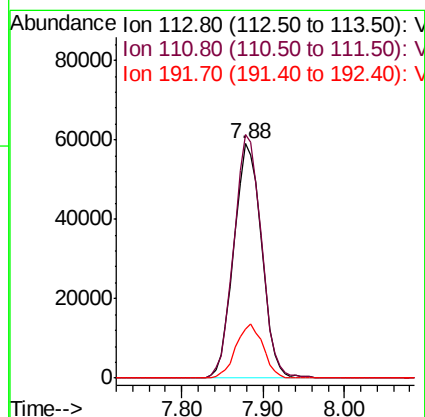
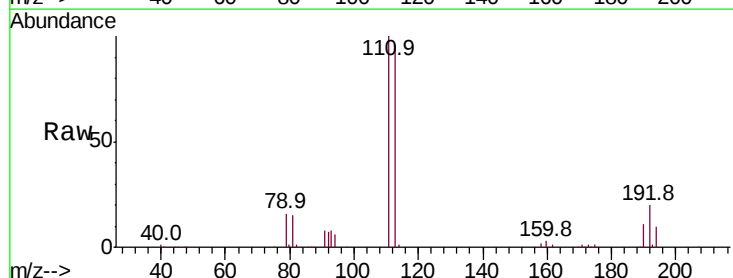
Instrument :
 MSVOA_W
 ClientSampleId :

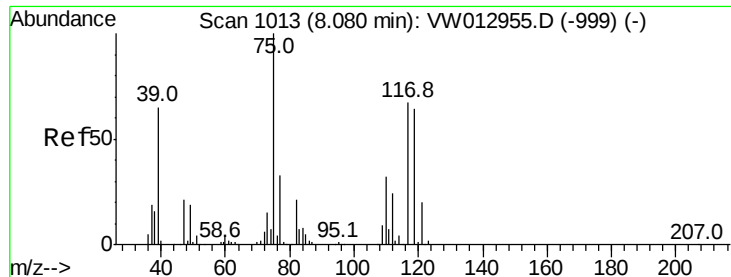
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.4
88	15.9	0.0	31.6



#35
 Dibromofluoromethane
 Concen: 52.236 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW013090.D
 Acq: 17 Sep 2019 15:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.8	124.2
192	22.5	17.8	26.8





#36

1,1-Dichloropropene

Concen: 5.995 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampled :

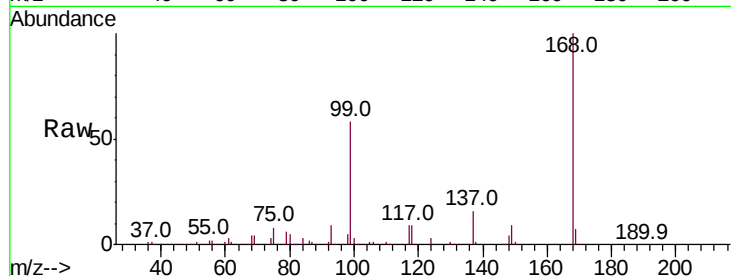
Tot Ion: 75 Resp: 23448

Ion Ratio Lower Upper

75 100

110 9.5 16.4 49.1#

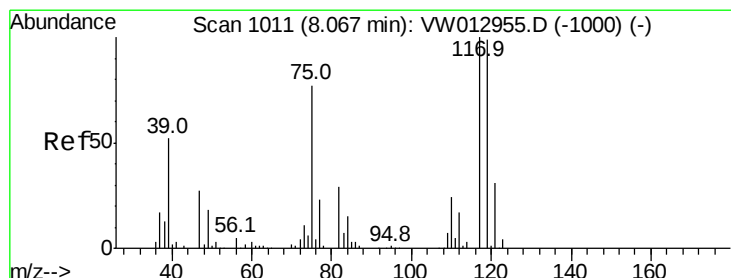
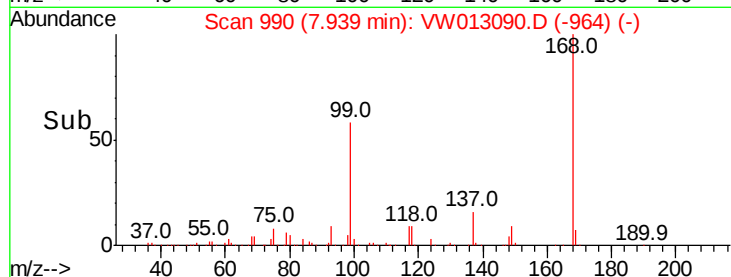
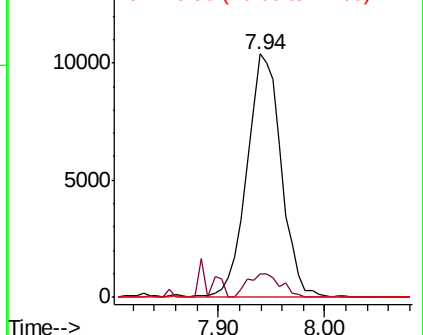
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 7.352 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

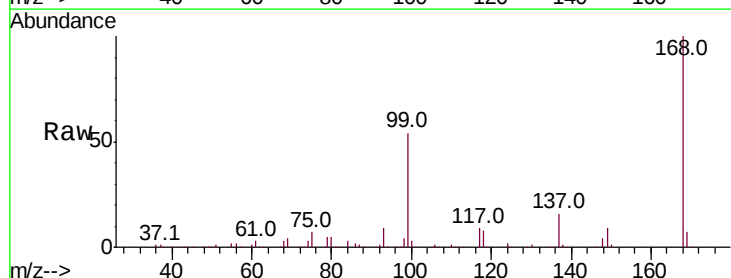
Tgt Ion: 117 Resp: 29470

Ion Ratio Lower Upper

117 100

119 5.5 79.4 119.0#

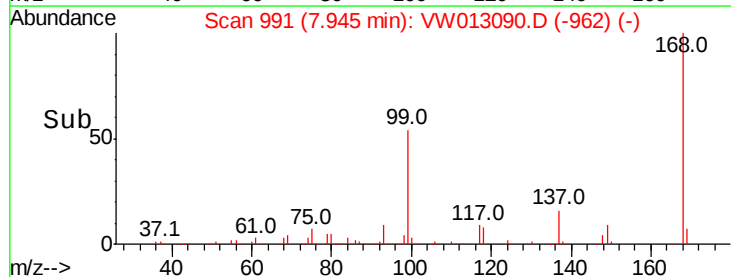
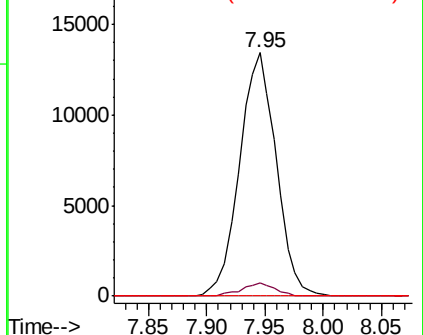
121 0.0 24.6 36.8#

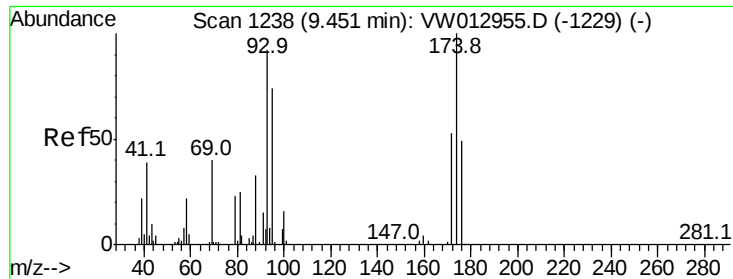


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

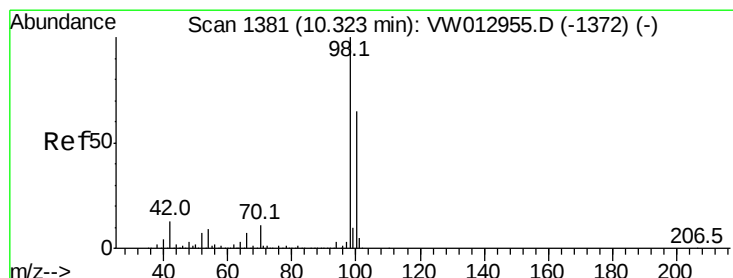
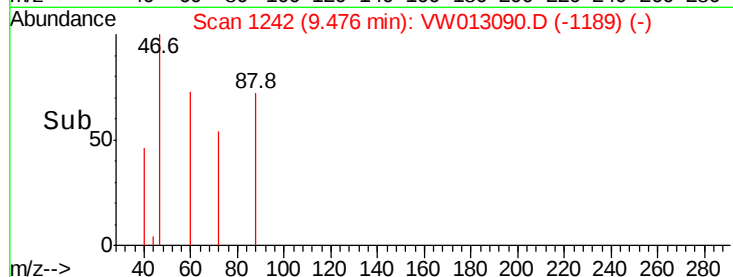
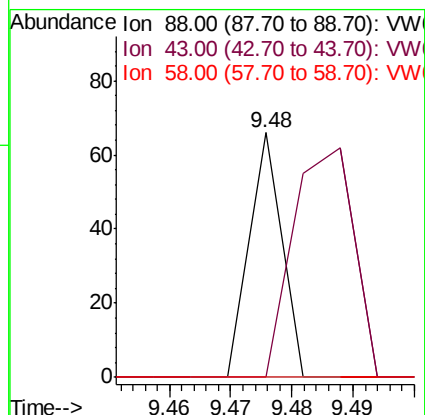
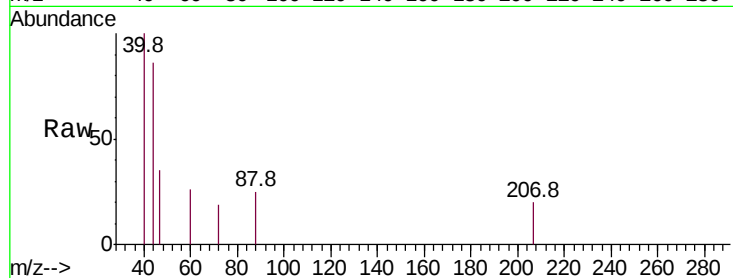




#49
 1,4-Dioxane
 Concen: 1.030 ug/l
 RT: 9.48 min Scan# 1242
 Delta R.T. 0.02 min
 Lab File: VW013090.D
 Acq: 17 Sep 2019 15:12

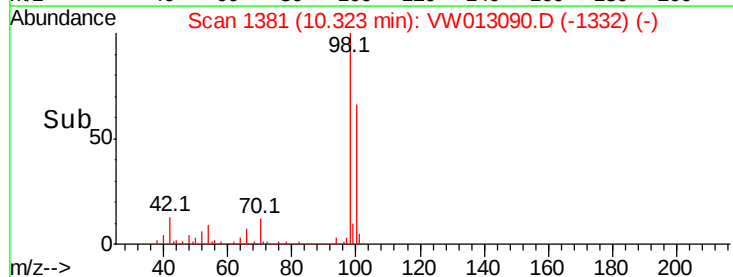
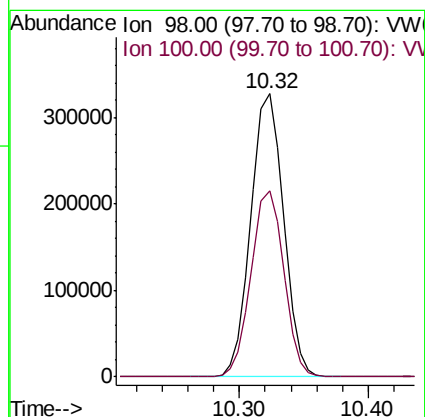
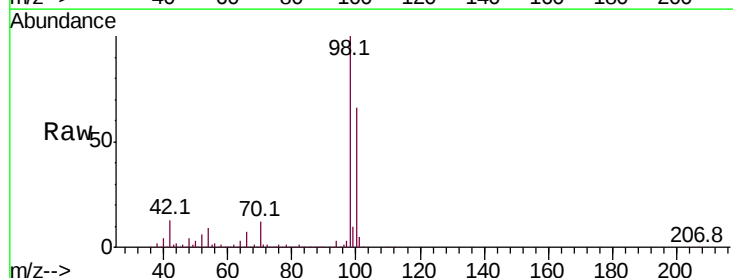
Instrument :
 MSVOA_W
 ClientSampleId :

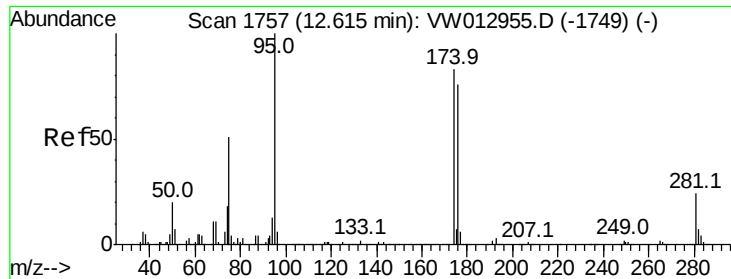
Tot Ion: 88 Resp: 24
 Ion Ratio Lower Upper
 88 100
 43 179.2 31.3 46.9#
 58 0.0 60.2 90.2#



#50
 Toluene-d8
 Concen: 55.598 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW013090.D
 Acq: 17 Sep 2019 15:12

Tgt Ion: 98 Resp: 577845
 Ion Ratio Lower Upper
 98 100
 100 65.9 52.1 78.1

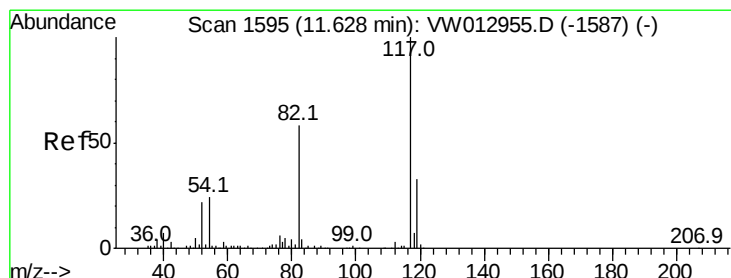
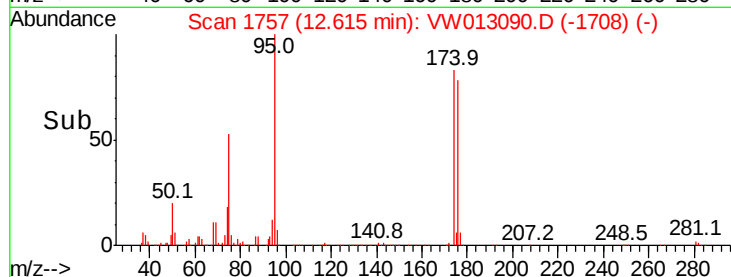
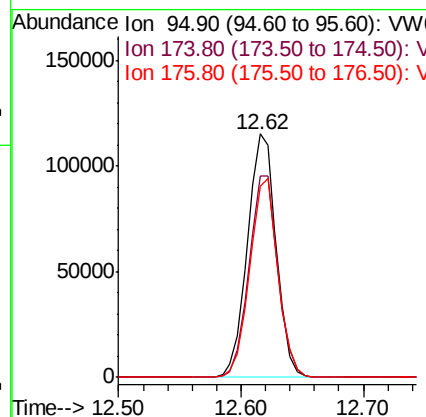
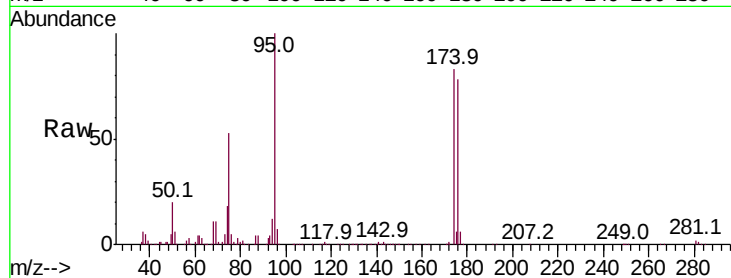




#62
4-Bromofluorobenzene
Concen: 50.109 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013090.D
Acq: 17 Sep 2019 15:12

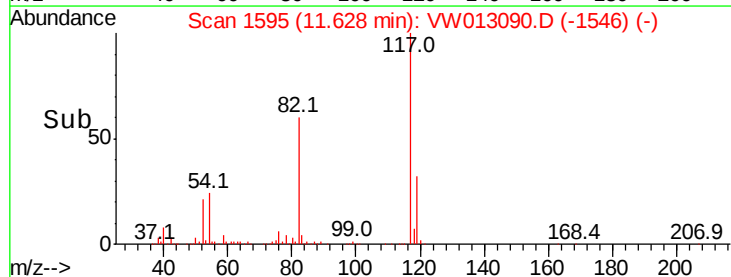
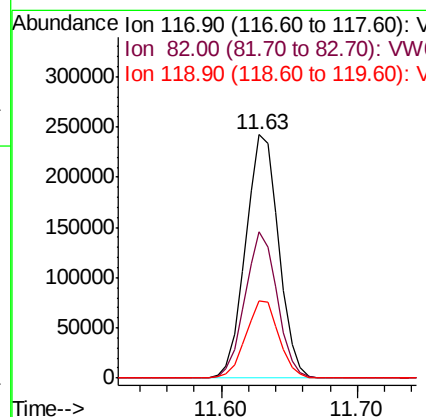
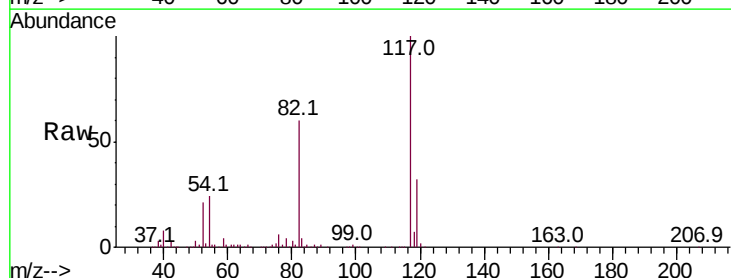
Instrument :
MSVOA_W
ClientSampleId :

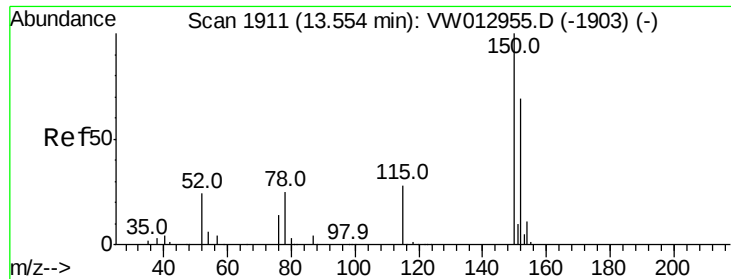
Tot Ion	95	Resp	187266
Ion Ratio	Lower	Upper	
95	100		
174	83.4	0.0	170.4
176	80.5	0.0	164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013090.D
Acq: 17 Sep 2019 15:12

Tgt Ion	117	Resp	412598
Ion Ratio	Lower	Upper	
117	100		
82	60.2	46.3	69.5
119	31.8	26.2	39.4



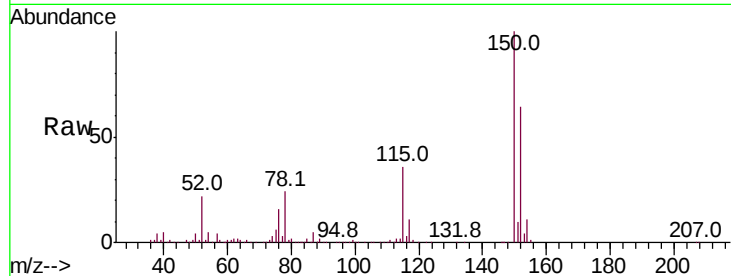


#72

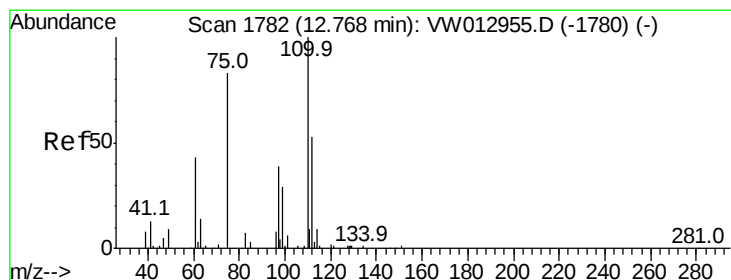
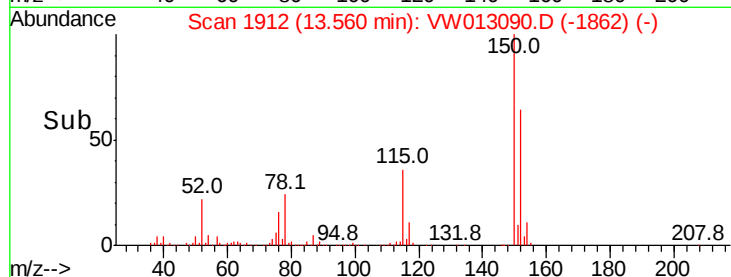
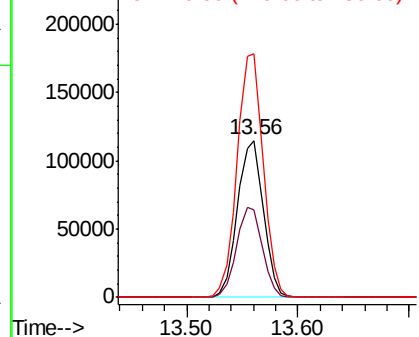
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.01 min
Lab File: VW013090.D
Acq: 17 Sep 2019 15:12

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:152 Resp: 184934
Ion Ratio Lower Upper
152 100
115 57.3 28.8 86.4
150 156.7 0.0 340.2



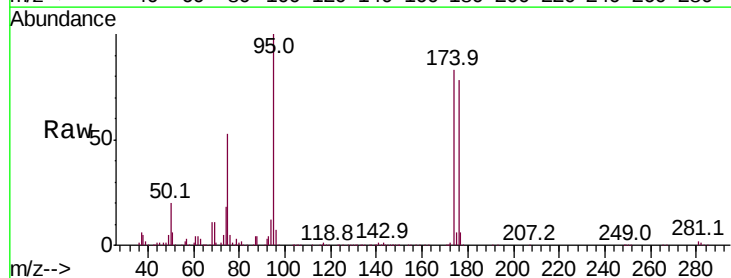
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



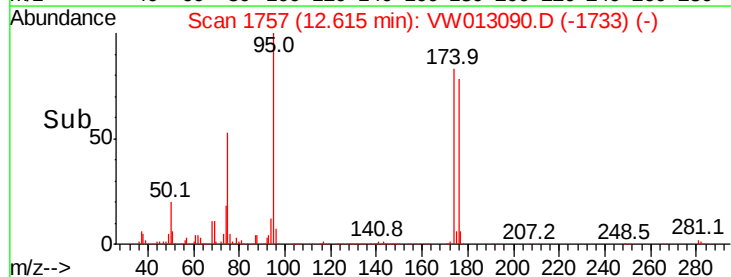
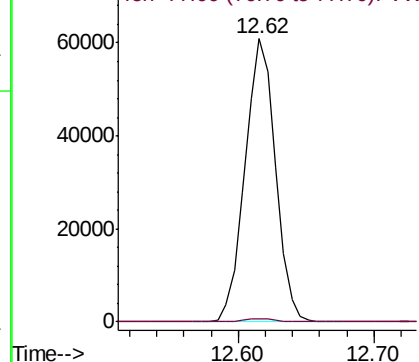
#76

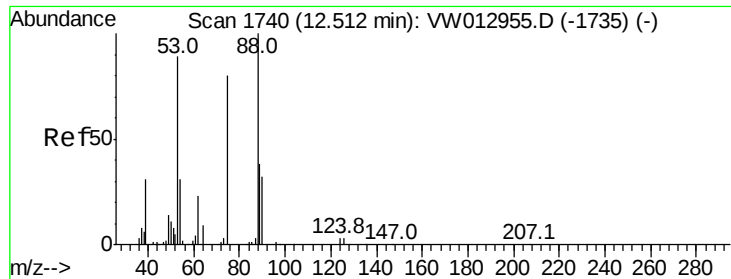
1,2,3-Trichloropropane
Concen: 58.881 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW013090.D
Acq: 17 Sep 2019 15:12

Tgt Ion: 75 Resp: 95380
Ion Ratio Lower Upper
75 100
77 1.4 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: 133.571 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013090.D

Acq: 17 Sep 2019 15:12

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 75 Resp: 95380

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

89 0.0 37.2 55.8#

