

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091719\
 Data File : VW013101.D
 Acq On : 17 Sep 2019 19:56
 Operator : SY/VA
 Sample : K4847-09
 Misc : 5.03G/5ML/MSVOA W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 18 05:35:11 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	299703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	453895	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	375208	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	166416	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	147919	53.44	ug/l	0.00
Spiked Amount			Recovery	=	106.88%	
35) Dibromofluoromethane	7.88	113	131374	53.34	ug/l	0.00
Spiked Amount			Recovery	=	106.68%	
50) Toluene-d8	10.32	98	531029	55.10	ug/l	0.00
Spiked Amount			Recovery	=	110.20%	
62) 4-Bromofluorobenzene	12.62	95	168787	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	

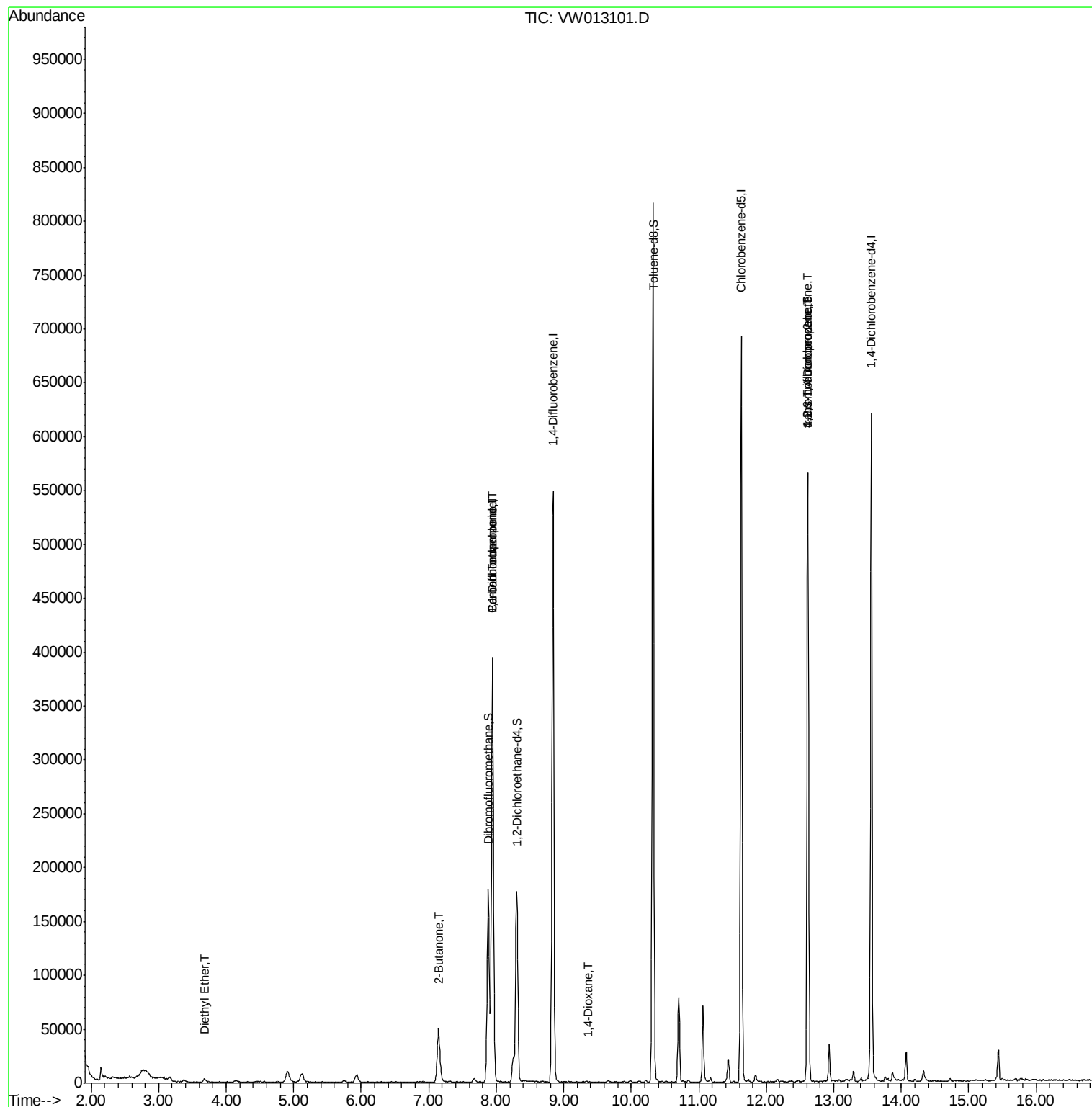
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	177	Below Cal	#	44
3) Chloromethane	2.19	50	124	Below Cal	#	41
8) Diethyl Ether	3.67	74	1309	1.118	ug/l	60
11) Tert butyl alcohol	5.20	59	307	Below Cal	#	72
13) Acrolein	3.94	56	25	Below Cal	#	15
16) Acetone	4.14	43	3887	Below Cal	#	80
20) Methylene Chloride	4.92	84	7687	Below Cal		91
25) 2-Butanone	7.15	43	2930	3.329	ug/l	96
26) 2,2-Dichloropropane	7.14	77	3705	Below Cal	#	55
31) Cyclohexane	7.95	56	6452	Below Cal	#	27
36) 1,1-Dichloropropene	7.94	75	22538	6.214	ug/l	# 51
38) Carbon Tetrachloride	7.95	117	28963	7.792	ug/l	# 15
49) 1,4-Dioxane	9.37	88	30	1.389	ug/l	# 1
76) 1,2,3-Trichloropropane	12.62	75	87708	60.170	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.62	75	87708	136.494	ug/l	# 7

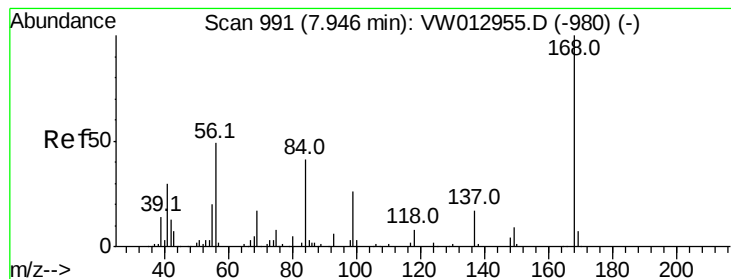
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013101.D

Acq: 17 Sep 2019 19:56

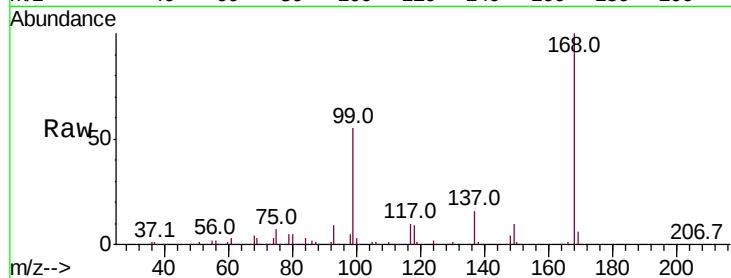
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 299703

Ion Ratio Lower Upper

168 100

99 55.2 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

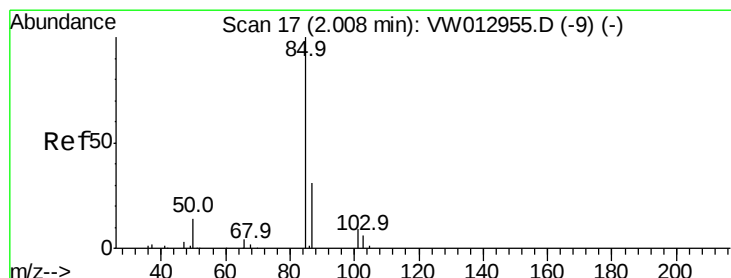
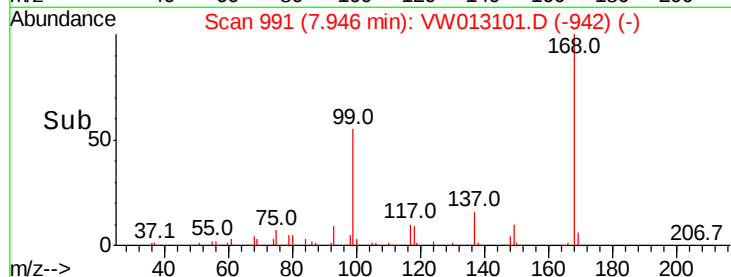
100000

50000

0

7.80 7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013101.D

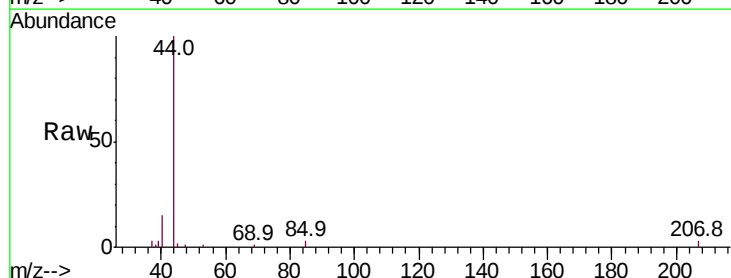
Acq: 17 Sep 2019 19:56

Tgt Ion: 85 Resp: 177

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

150

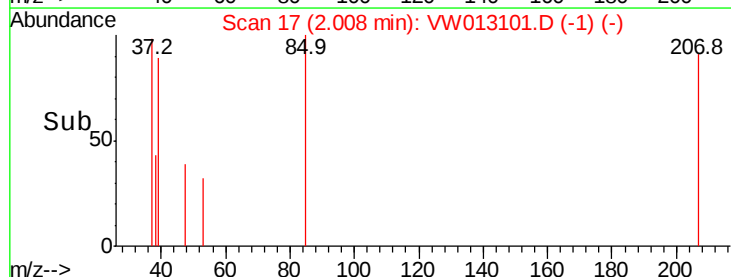
100

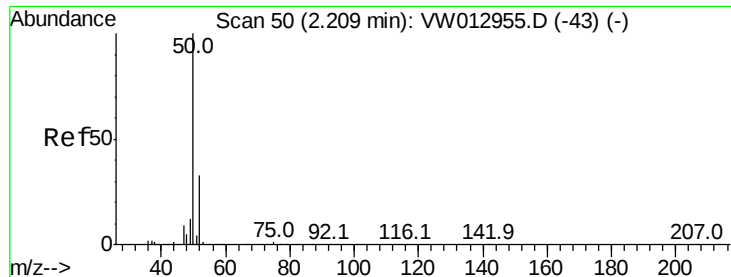
50

0

1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.19 min Scan# 47

Delta R.T. -0.02 min

Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Instrument :

MSVOA_W

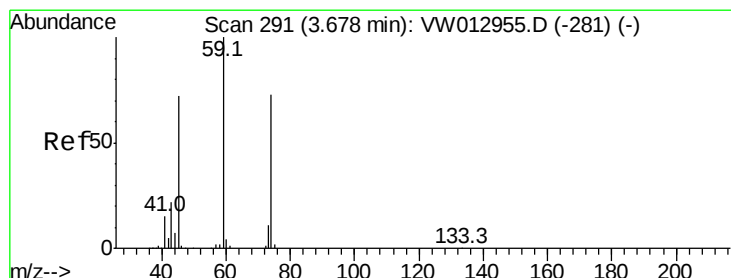
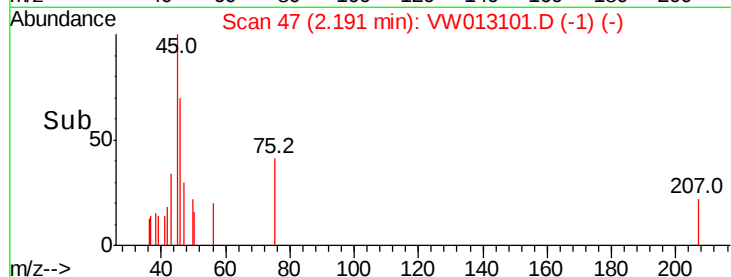
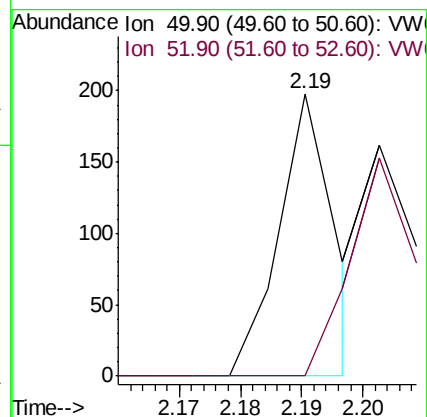
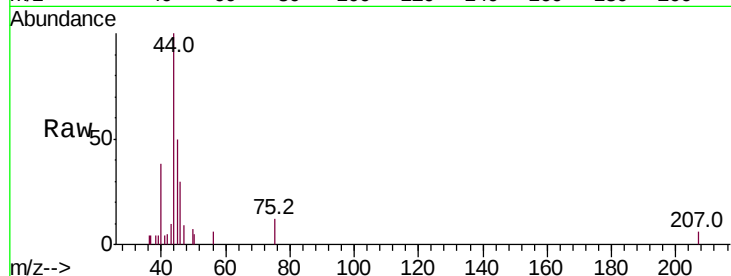
ClientSampled :

Tot Ion: 50 Resp: 124

Ion Ratio Lower Upper

50 100

52 0.0 26.6 39.8#



#8

Diethyl Ether

Concen: 1.118 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW013101.D

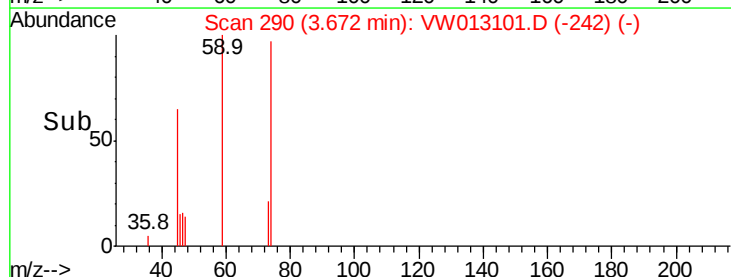
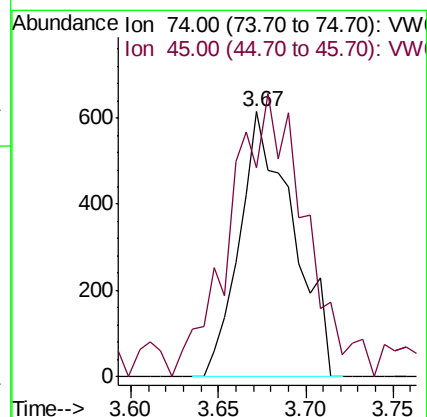
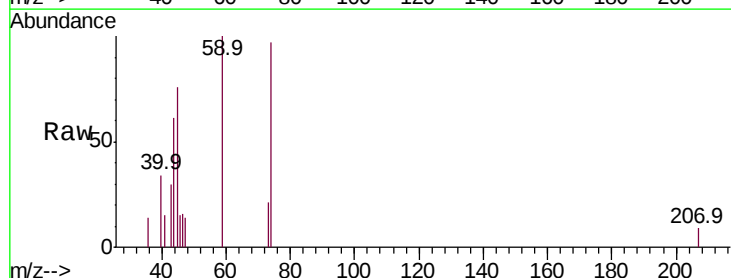
Acq: 17 Sep 2019 19:56

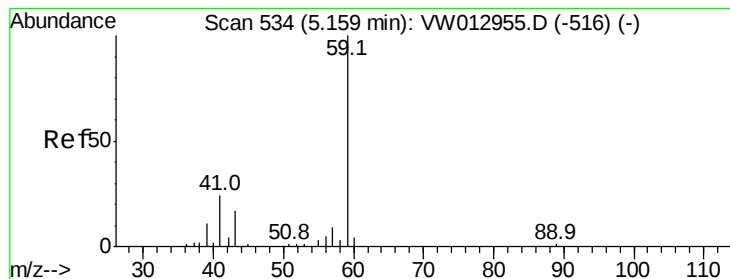
Tgt Ion: 74 Resp: 1309

Ion Ratio Lower Upper

74 100

45 149.4 53.8 161.4



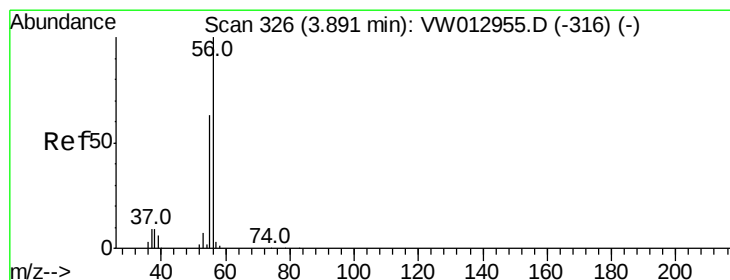
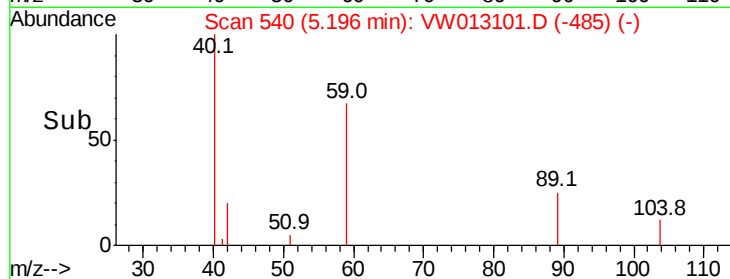
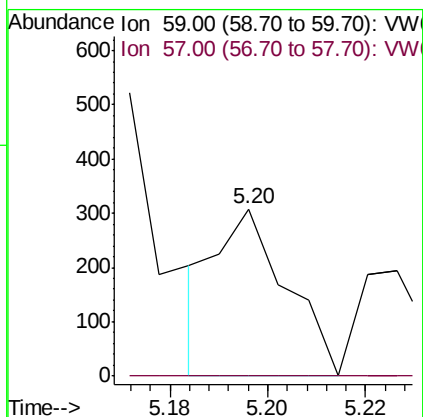
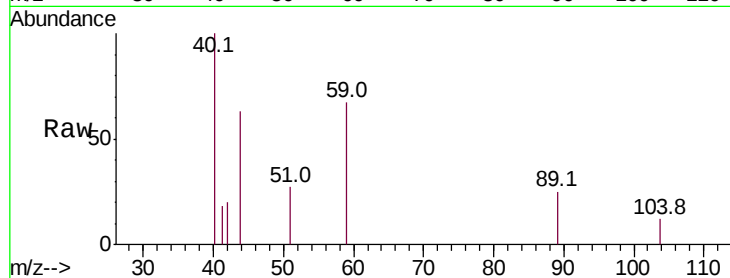


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.20 min Scan# 540
 Delta R.T. 0.04 min
 Lab File: VW013101.D
 Acq: 17 Sep 2019 19:56

Instrument :
 MSVOA_W
 ClientSampled :

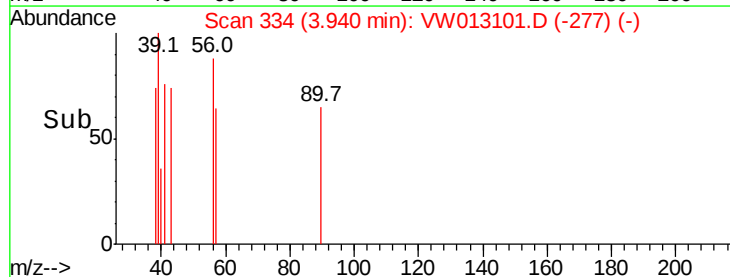
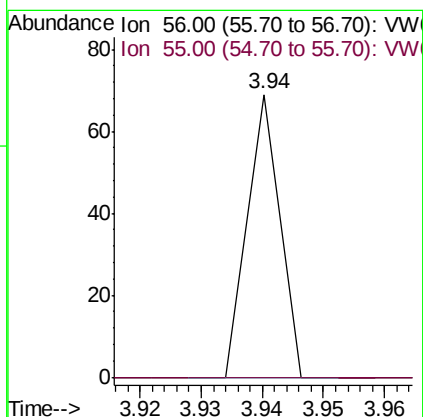
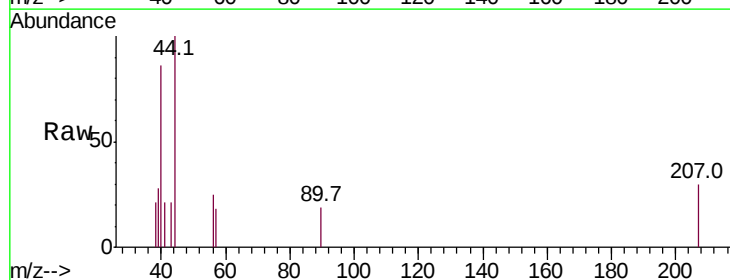
Tot Ion: 59 Resp: 307
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

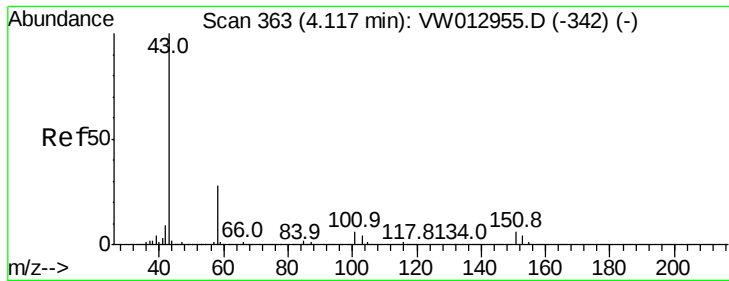


#13

Acrolein
 Concen: Below Cal
 RT: 3.94 min Scan# 334
 Delta R.T. 0.05 min
 Lab File: VW013101.D
 Acq: 17 Sep 2019 19:56

Tgt Ion: 56 Resp: 25
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#





#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 367

Delta R.T. 0.03 min

Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Instrument :

MSVOA_W

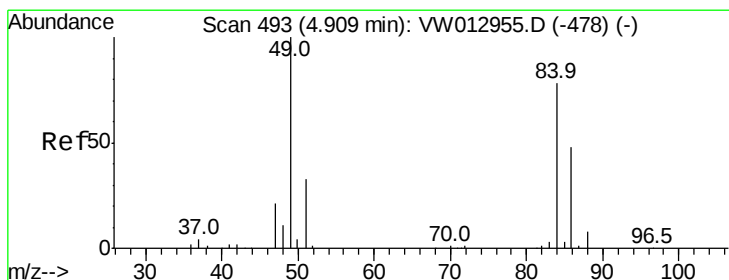
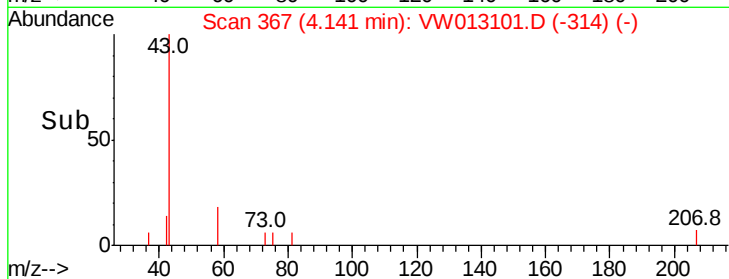
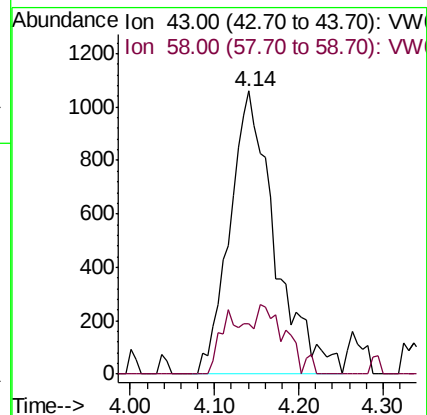
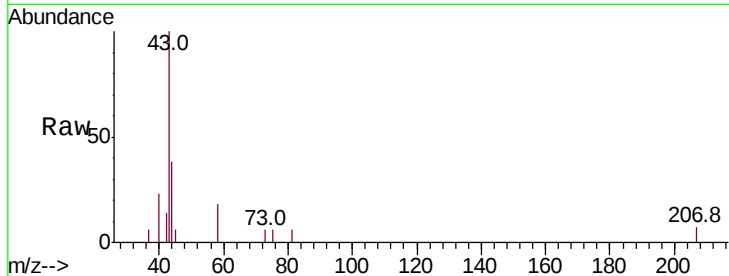
ClientSampleId :

Tot Ion: 43 Resp: 3887

Ion Ratio Lower Upper

43 100

58 17.6 22.3 33.5#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Tgt Ion: 84 Resp: 7687

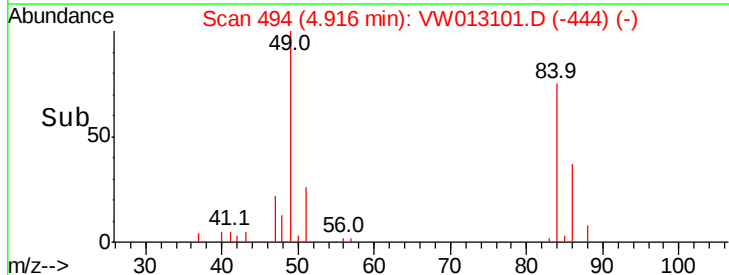
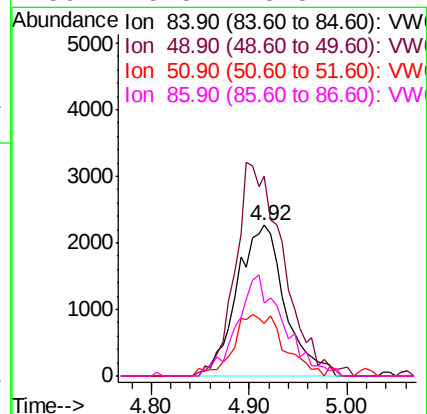
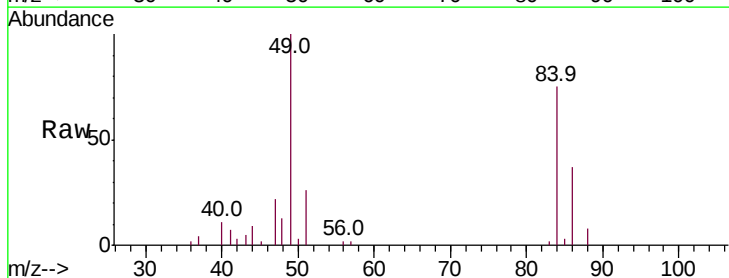
Ion Ratio Lower Upper

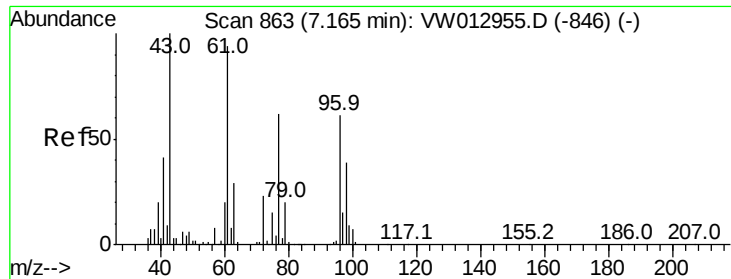
84 100

49 132.6 102.0 153.0

51 34.8 34.0 51.0

86 48.8 48.5 72.7





#25

2-Butanone

Concen: 3.329 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

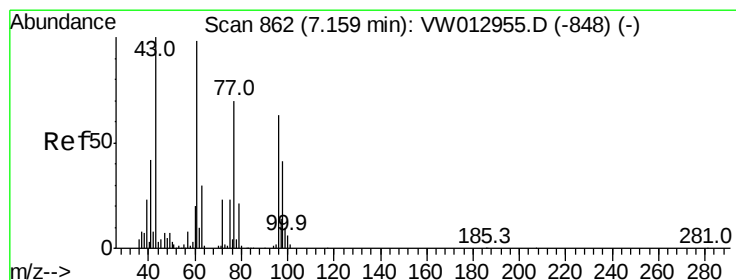
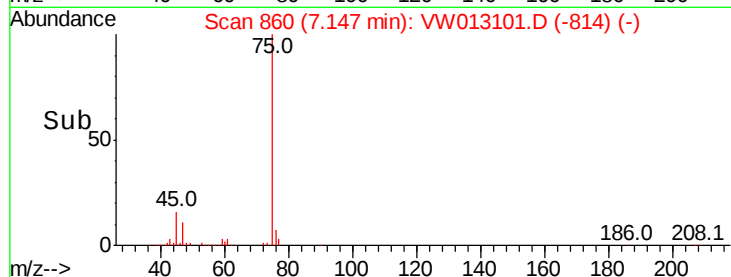
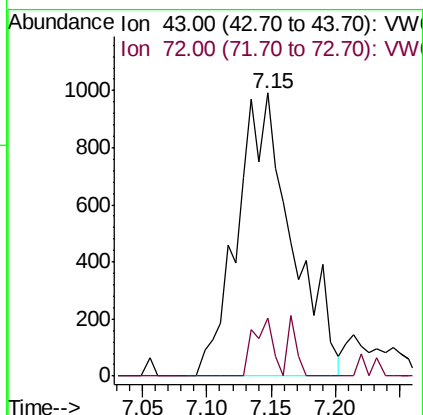
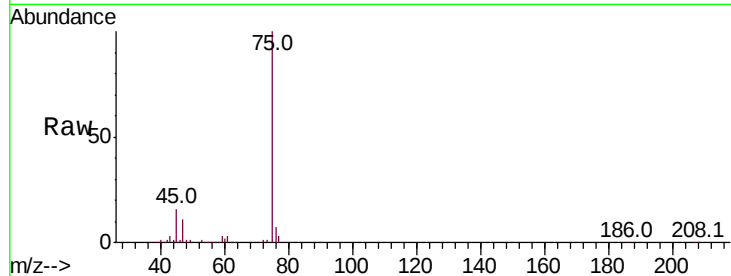
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 2930

Ion Ratio Lower Upper

43 100

72 20.7 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: VW013101.D

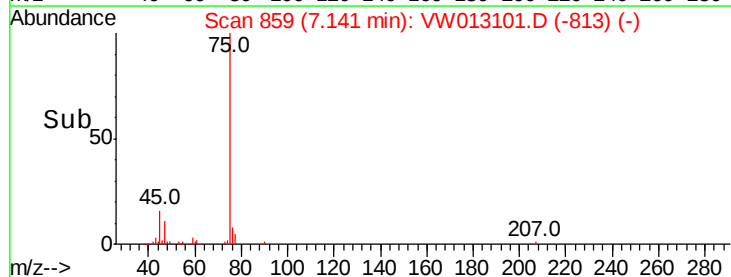
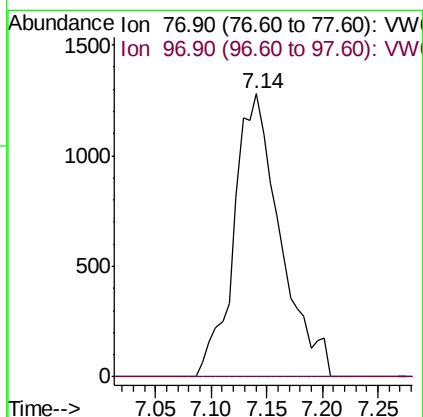
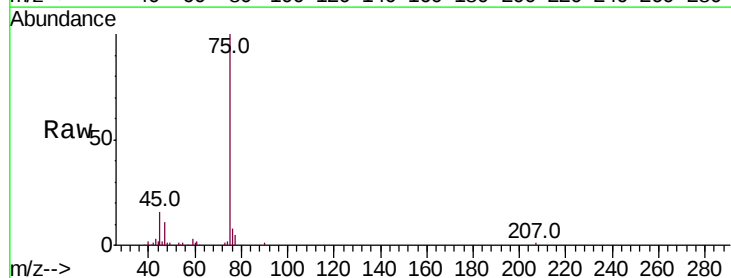
Acq: 17 Sep 2019 19:56

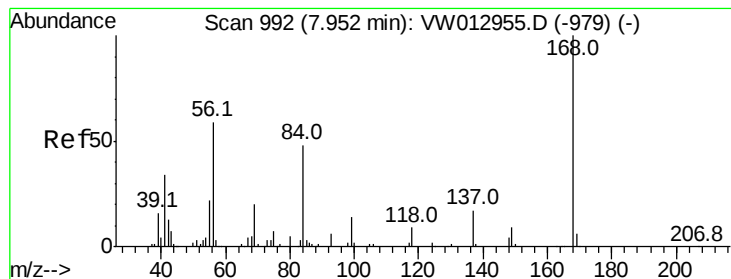
Tgt Ion: 77 Resp: 3705

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

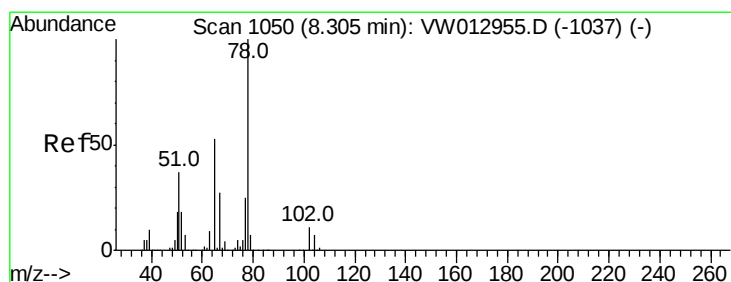
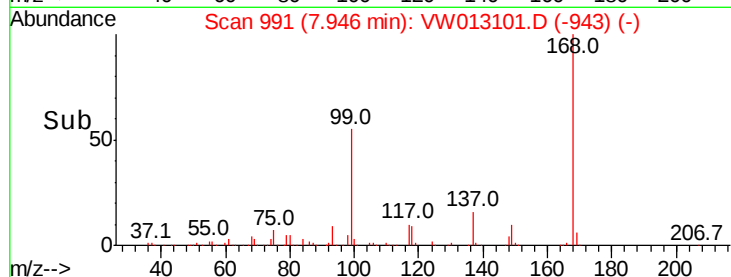
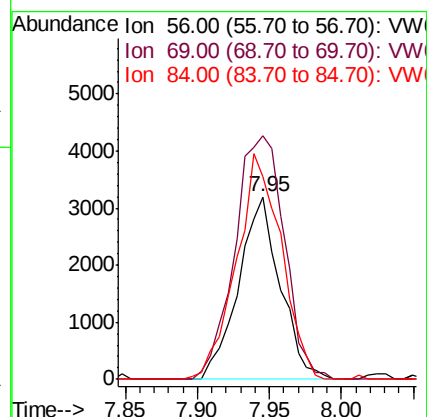
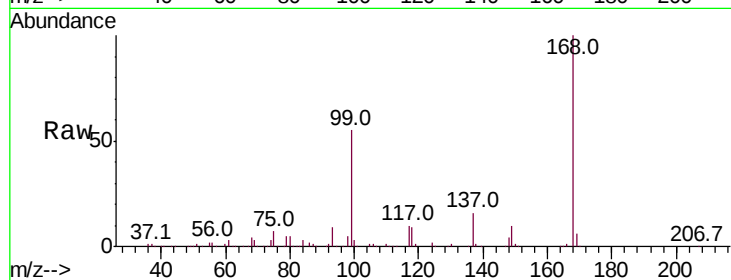
Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 6452

Ion	Ratio	Lower	Upper
56	100		
69	133.6	27.0	40.6#
84	111.4	66.2	99.2#



#33

1,2-Dichloroethane-d4

Concen: 53.440 ug/l

RT: 8.31 min Scan# 1050

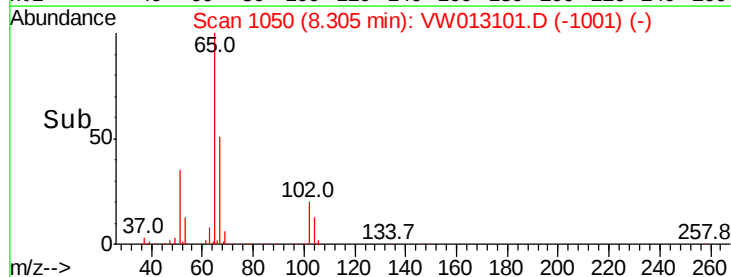
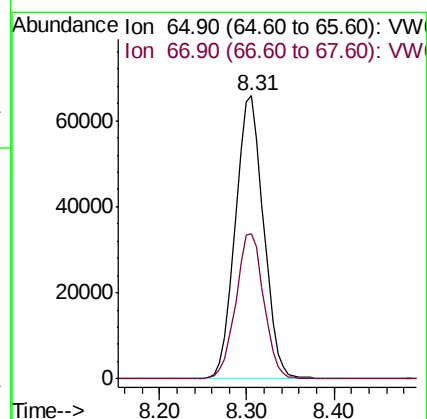
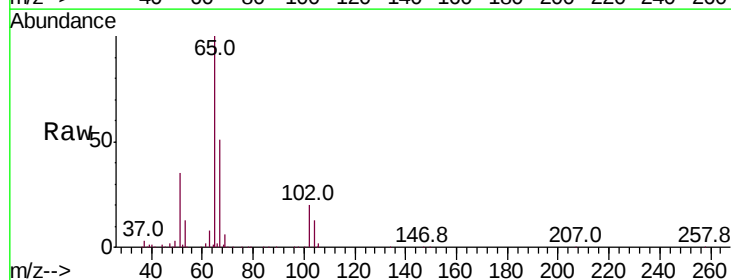
Delta R.T. 0.00 min

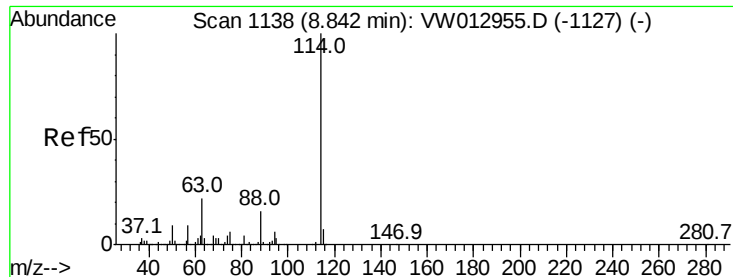
Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Tgt Ion: 65 Resp: 147919

Ion	Ratio	Lower	Upper
65	100		
67	51.1	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: VW013101.D

Acq: 17 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

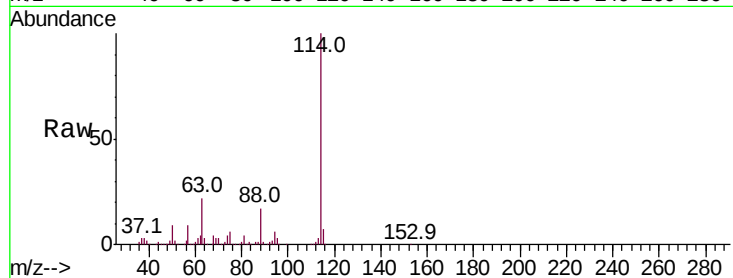
Tot Ion:114 Resp: 453895

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.4

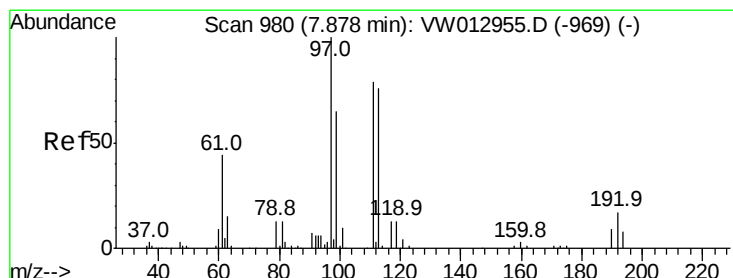
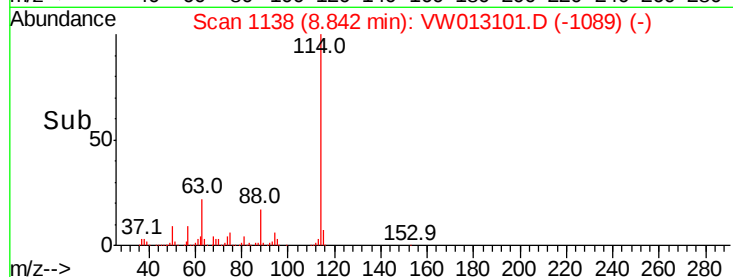
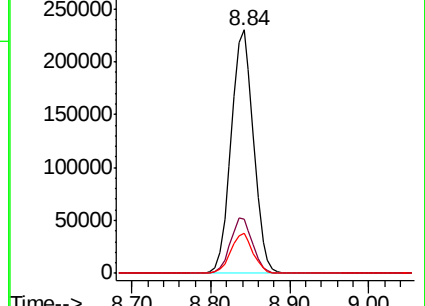
88 16.6 0.0 31.6



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: 53.341 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

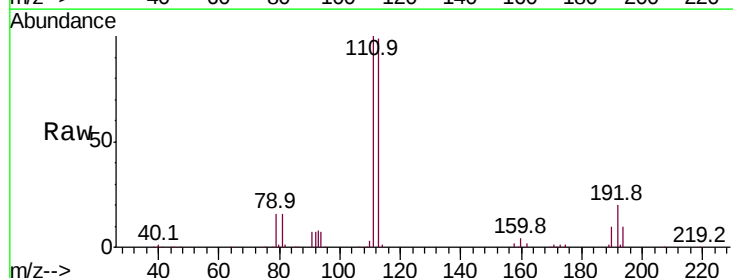
Tgt Ion:113 Resp: 131374

Ion Ratio Lower Upper

113 100

111 101.9 82.8 124.2

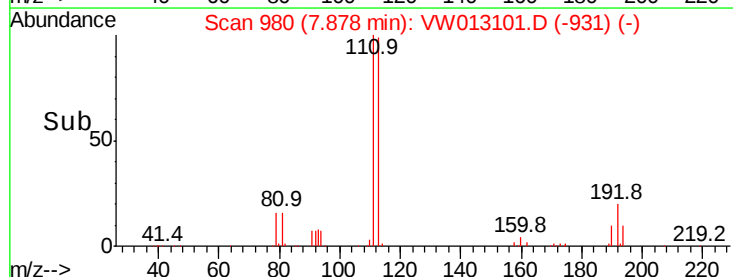
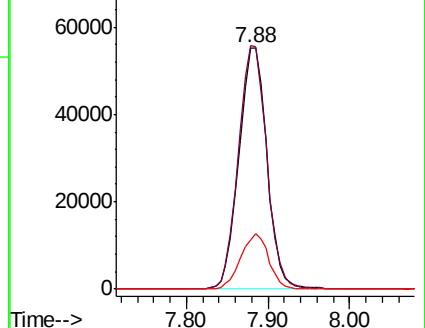
192 22.8 17.8 26.8

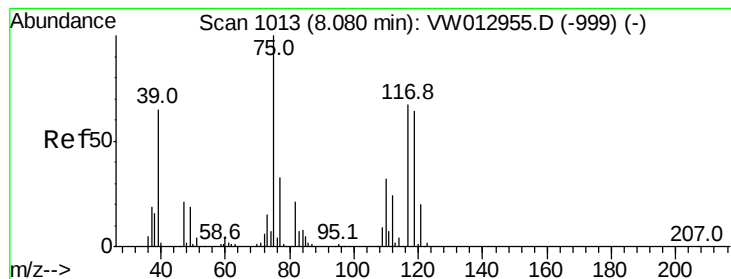


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

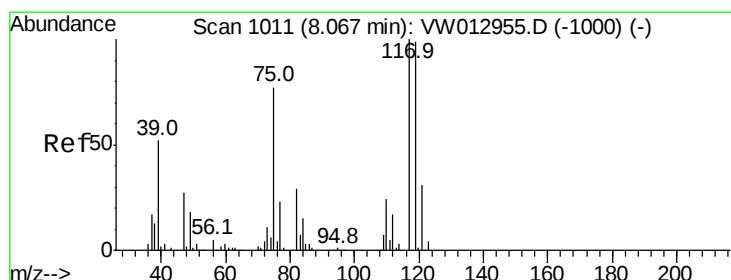
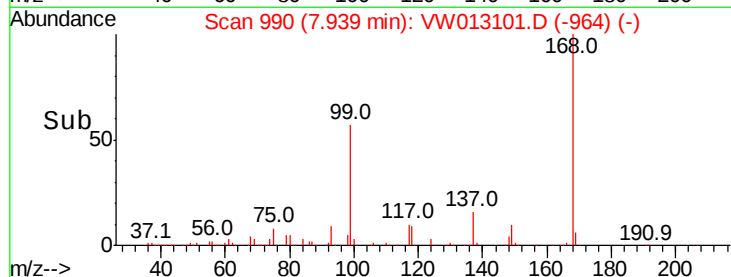
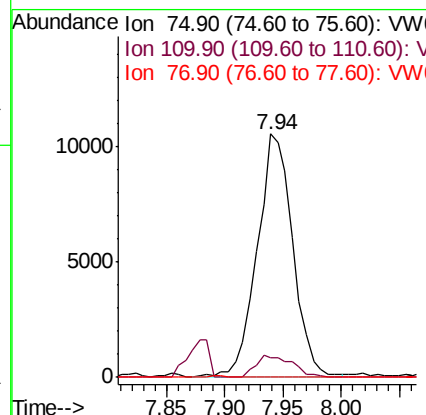
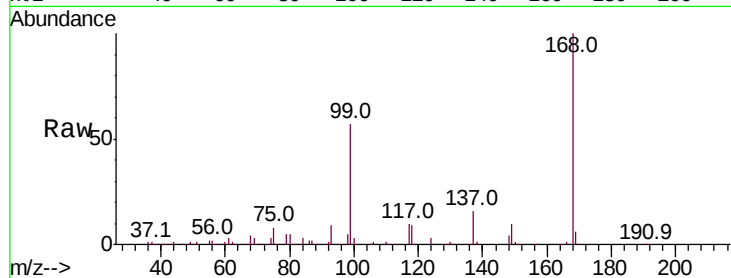




#36
 1,1-Dichloropropene
 Concen: 6.214 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW013101.D
 Acq: 17 Sep 2019 19:56

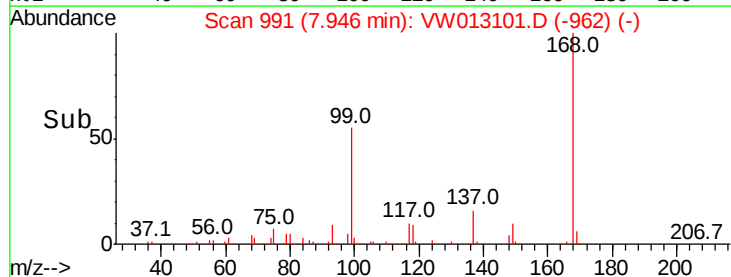
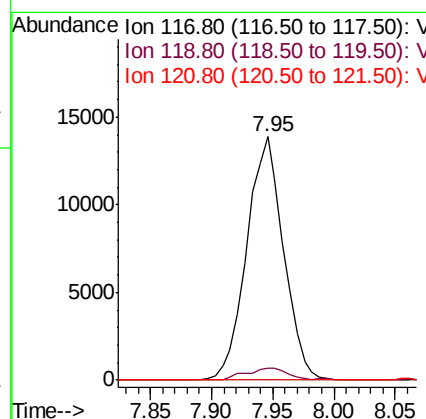
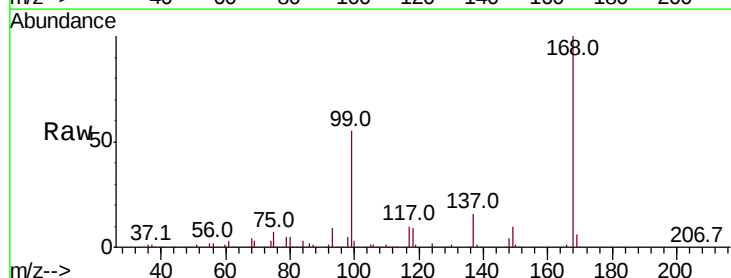
Instrument :
 MSVOA_W
 ClientSampled :

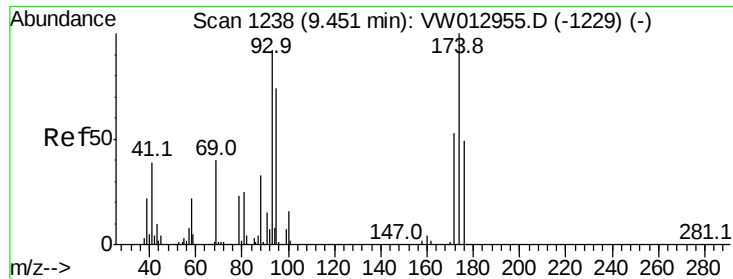
Tot Ion: 75 Resp: 22538
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.4 49.1#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 7.792 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW013101.D
 Acq: 17 Sep 2019 19:56

Tgt Ion: 117 Resp: 28963
 Ion Ratio Lower Upper
 117 100
 119 5.1 79.4 119.0#
 121 0.0 24.6 36.8#





#49

1,4-Dioxane

Concen: 1.389 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.09 min

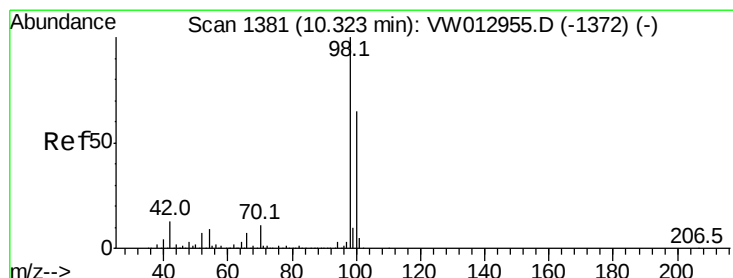
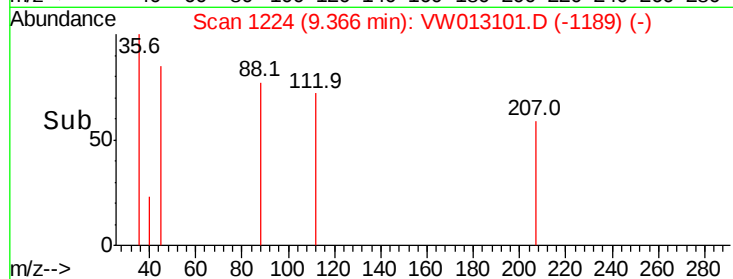
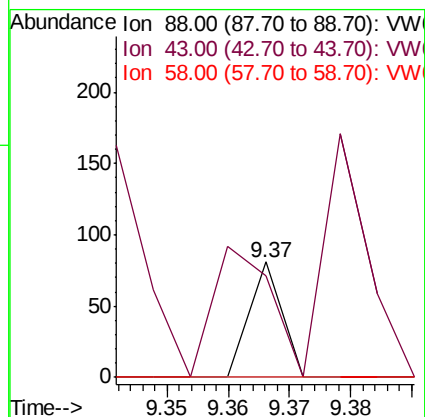
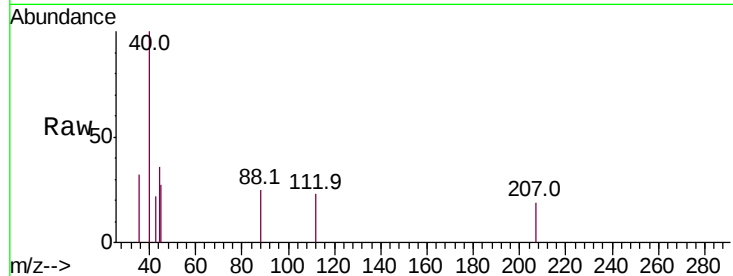
Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 88 Resp: 30

Ion	Ratio	Lower	Upper
88	100		
43	200.0	31.3	46.9#
58	0.0	60.2	90.2#



#50

Toluene-d8

Concen: 55.100 ug/l

RT: 10.32 min Scan# 1381

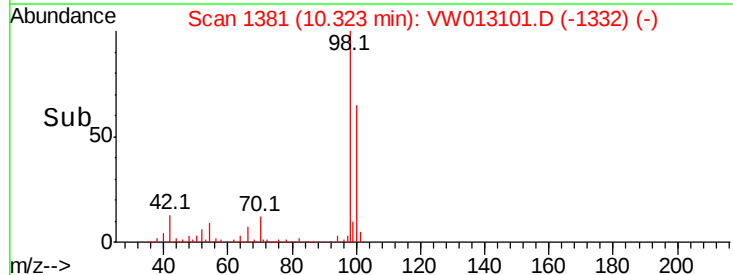
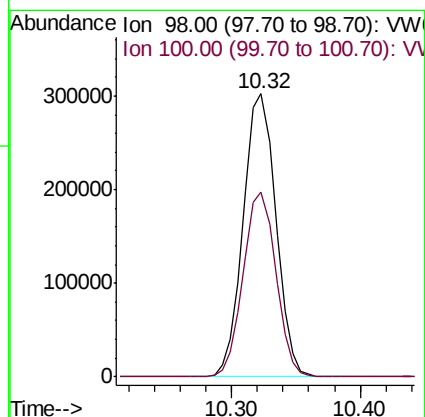
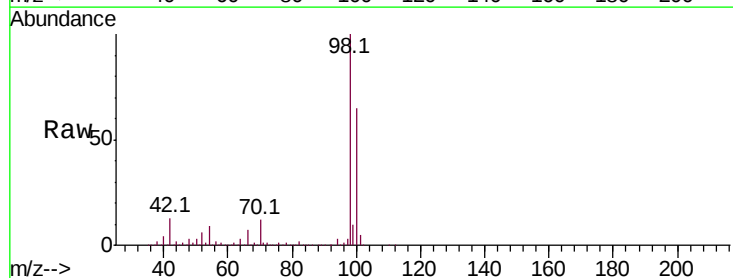
Delta R.T. 0.00 min

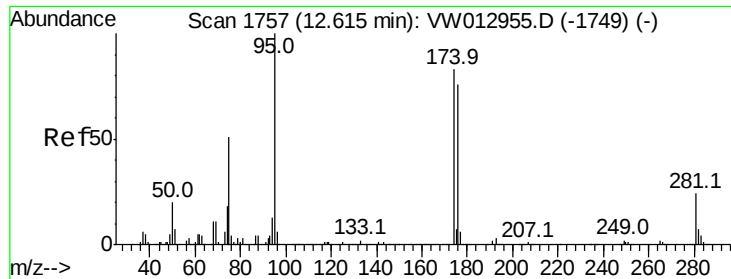
Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Tgt Ion: 98 Resp: 531029

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.1	78.1

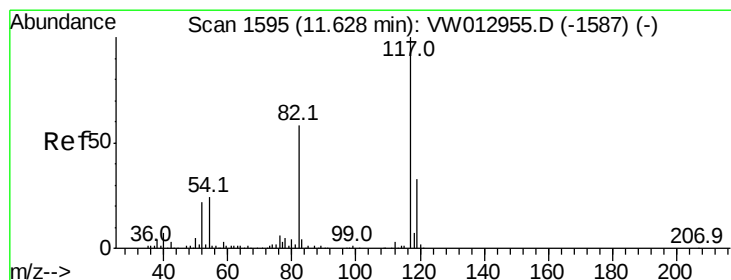
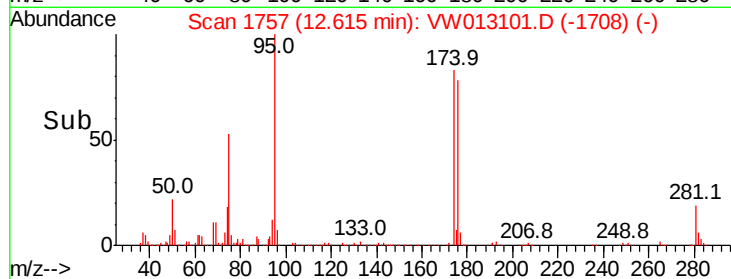
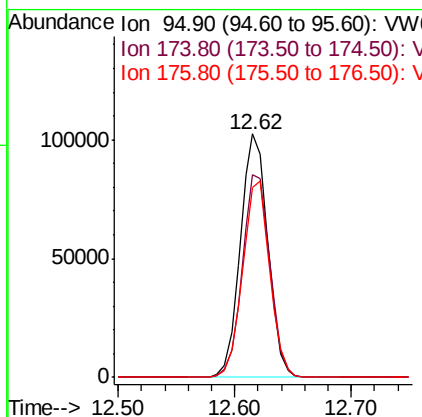
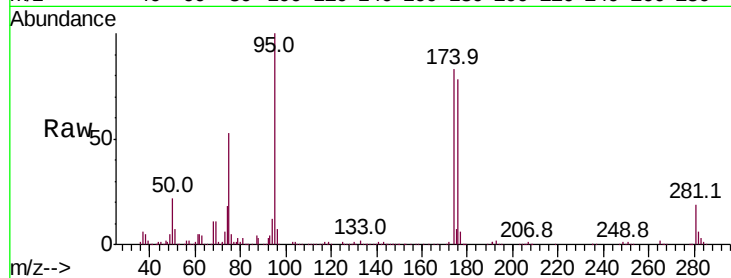




#62
4-Bromofluorobenzene
Concen: 48.706 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013101.D
Acq: 17 Sep 2019 19:56

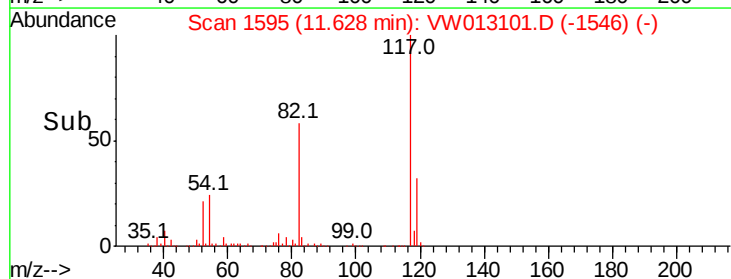
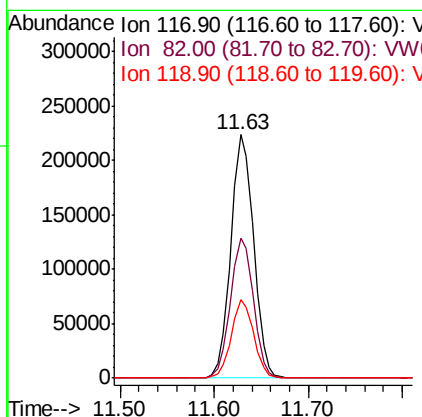
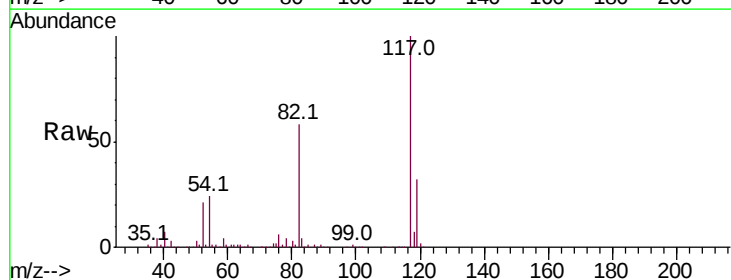
Instrument :
MSVOA_W
ClientSampled :

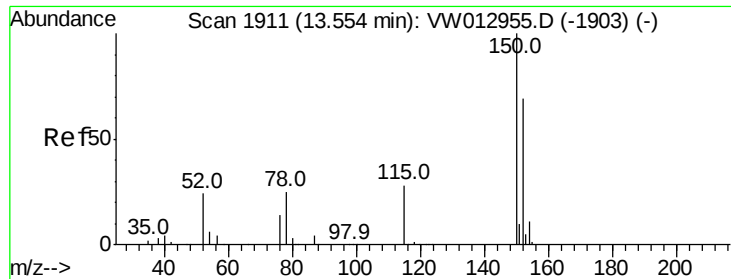
Tot Ion	Ratio	Lower	Upper
95	100		
174	83.8	0.0	170.4
176	79.6	0.0	164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW013101.D
Acq: 17 Sep 2019 19:56

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.6	46.3	69.5
119	32.5	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: VW013101.D

Acq: 17 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

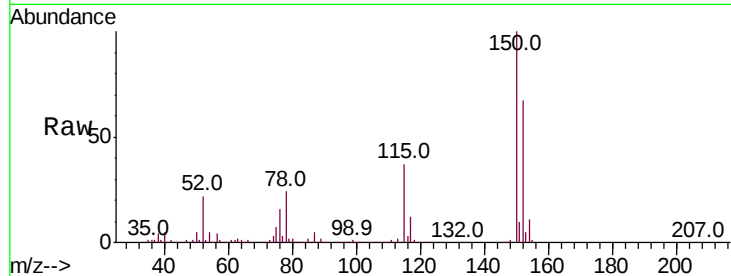
Tot Ion:152 Resp: 166416

Ion Ratio Lower Upper

152 100

115 56.8 28.8 86.4

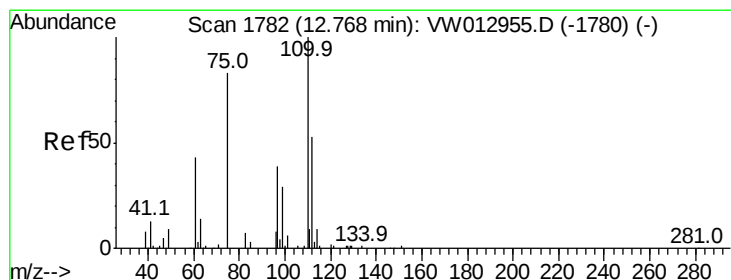
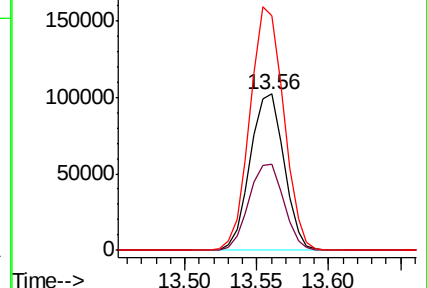
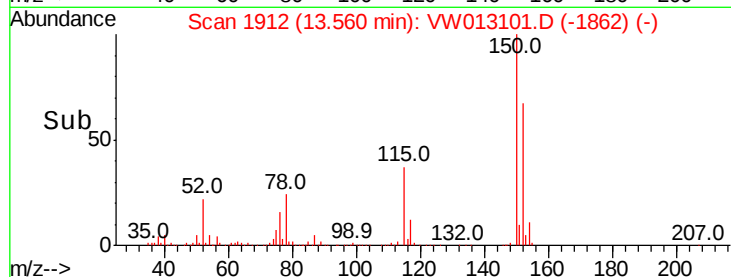
150 154.9 0.0 340.2



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: 60.170 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013101.D

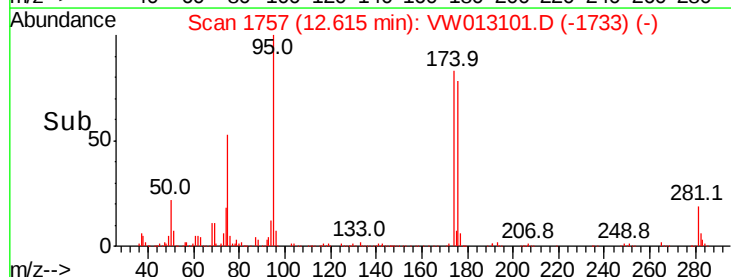
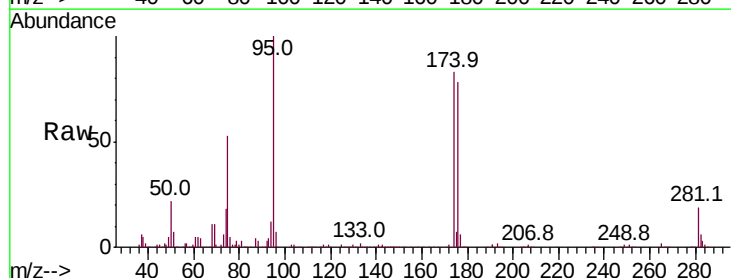
Acq: 17 Sep 2019 19:56

Tgt Ion: 75 Resp: 87708

Ion Ratio Lower Upper

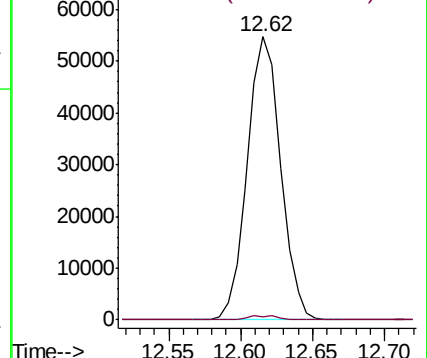
75 100

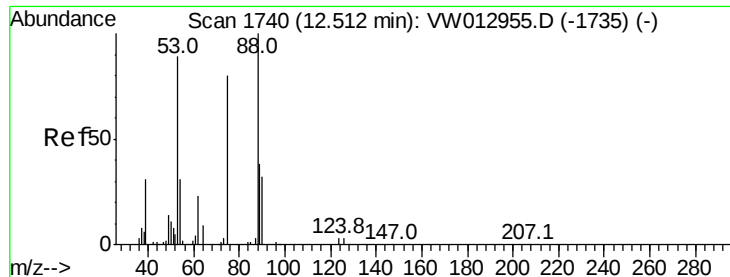
77 1.5 0.0 0.0#



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: 136.494 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013101.D

Acq: 17 Sep 2019 19:56

Instrument :

MSVOA_W

ClientSampleId :

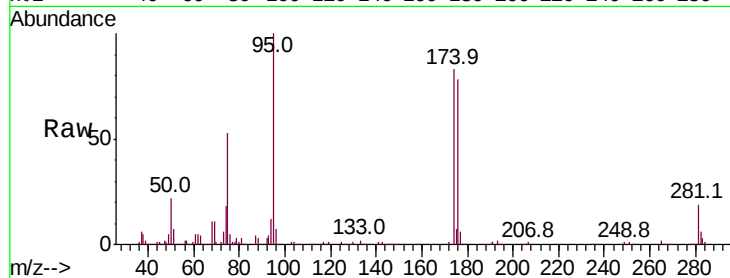
Tot Ion: 75 Resp: 87708

Ion Ratio Lower Upper

75 100

53 0.2 85.6 128.4#

89 0.4 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

