

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031219\
 Data File : VW009147.D
 Acq On : 13 Mar 2019 10:16
 Operator : SY/VA
 Sample : K1866-01RE
 Misc : 6.37G/5ML/MSVOA W/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 14 09:50:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	288127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	460548	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	416730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	196568	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	170012	58.65	ug/l	0.00
Spiked Amount			Recovery	=	117.30%	
35) Dibromofluoromethane	7.88	113	134674	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	10.32	98	554224	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
62) 4-Bromofluorobenzene	12.62	95	196074	43.73	ug/l	0.00
Spiked Amount			Recovery	=	87.46%	

Target Compounds

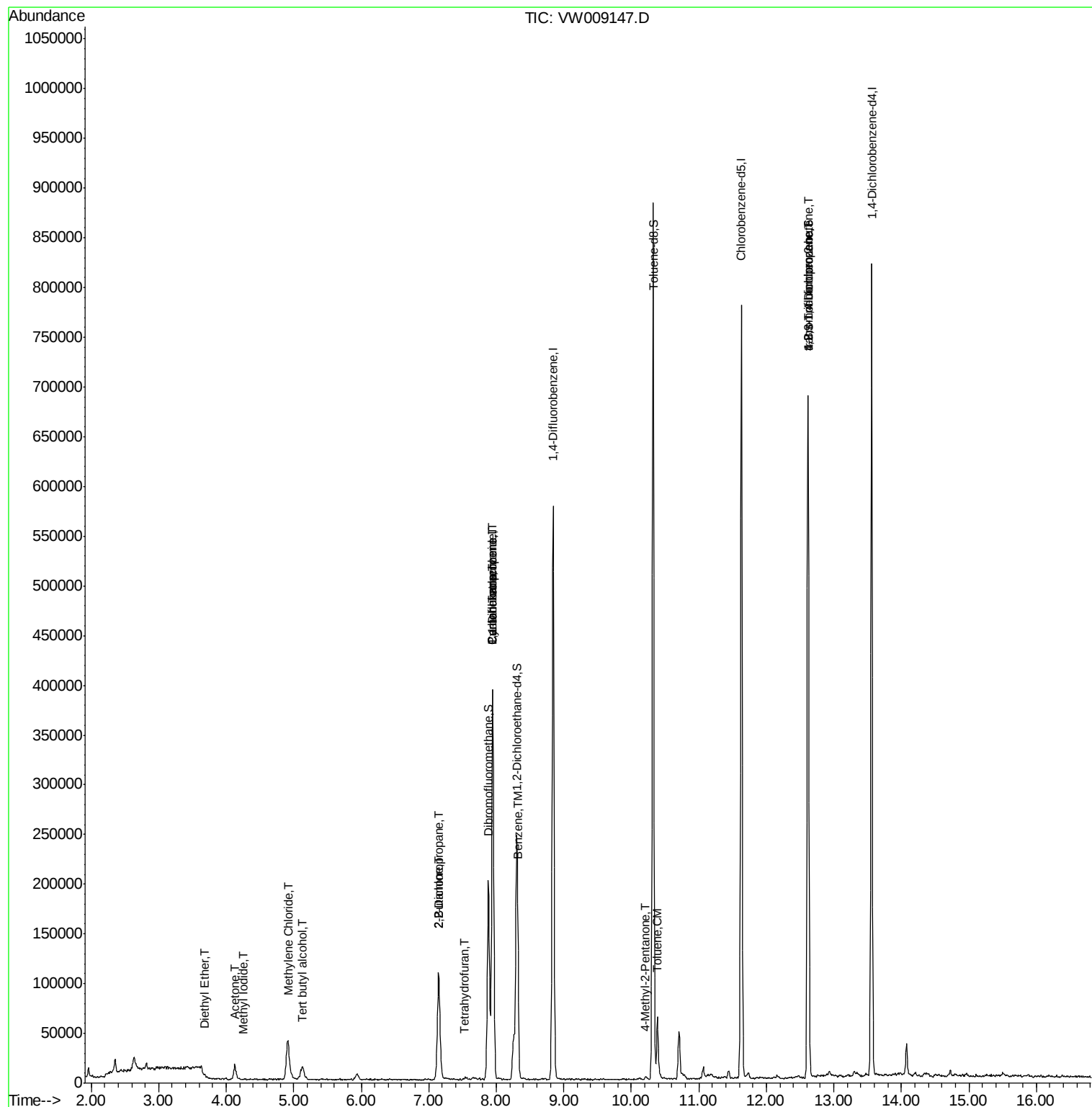
					Qvalue	
8) Diethyl Ether	3.68	74	1863	1.264	ug/l	92
10) Methyl Iodide	4.26	142	27	3.195	ug/l #	40
11) Tert butyl alcohol	5.13	59	12088	54.416	ug/l #	77
16) Acetone	4.13	43	22926	35.047	ug/l	97
20) Methylene Chloride	4.91	84	29464	4.654	ug/l	95
25) 2-Butanone	7.14	43	8387	9.277	ug/l #	72
26) 2,2-Dichloropropane	7.15	77	7050	1.473	ug/l #	54
29) Tetrahydrofuran	7.52	42	1857	3.260	ug/l #	43
31) Cyclohexane	7.95	56	7677	1.420	ug/l #	47
36) 1,1-Dichloropropene	7.95	75	22138	4.597	ug/l #	51
38) Carbon Tetrachloride	7.95	117	28826	5.796	ug/l #	18
40) Benzene	8.32	78	19466	1.514	ug/l	94
51) 4-Methyl-2-Pentanone	10.21	43	2764	1.292	ug/l	91
52) Toluene	10.39	92	25089	2.878	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	106700	68.704	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	106700	153.672	ug/l #	5

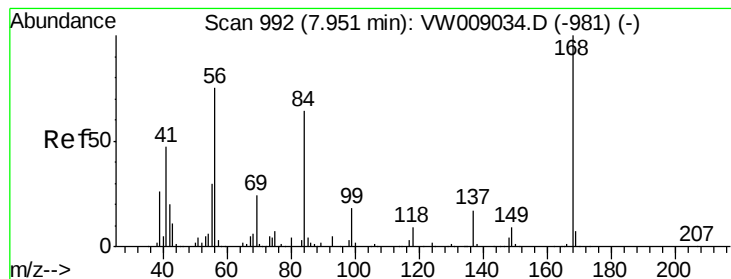
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 08 05:22:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

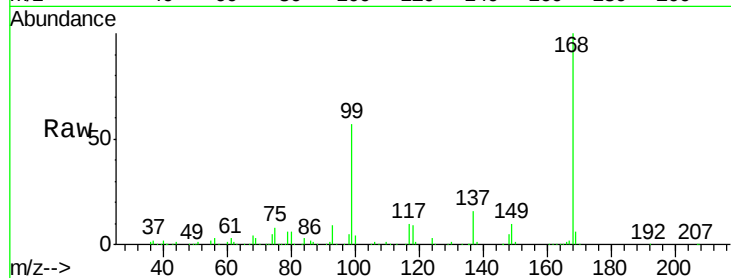
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 288127

Ion Ratio Lower Upper

168 100

99 57.4 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

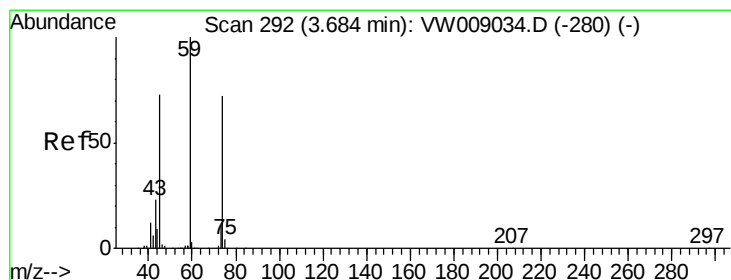
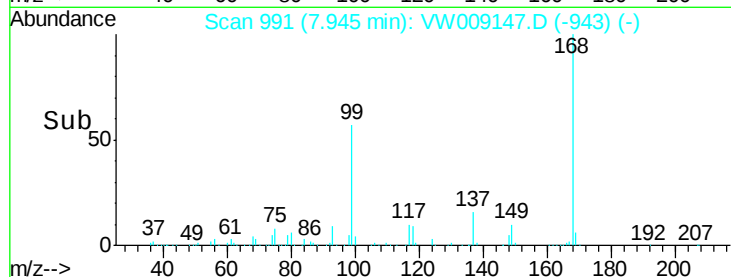
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.264 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VW009147.D

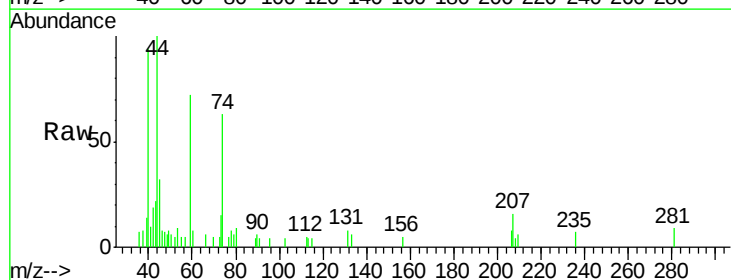
Acq: 13 Mar 2019 10:16

Tgt Ion: 74 Resp: 1863

Ion Ratio Lower Upper

74 100

45 97.0 52.3 157.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1000

800

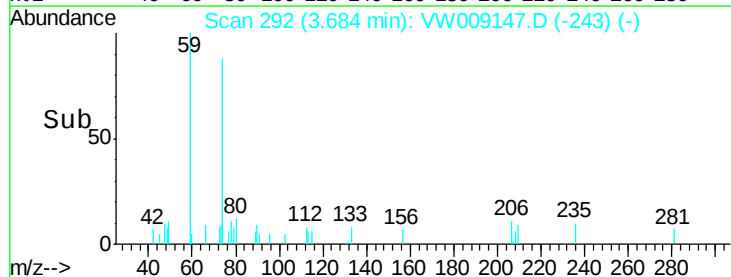
600

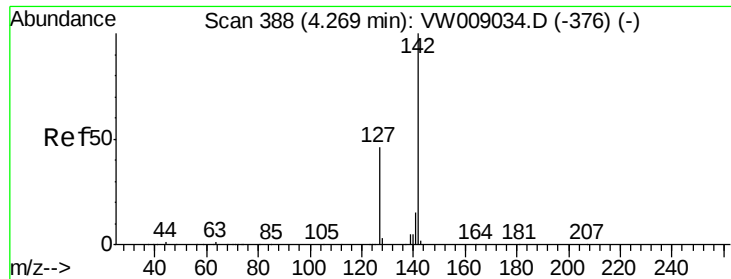
400

200

0

Time-->





#10

Methvl Iodide

Concen: 3.195 ug/l

RT: 4.26 min Scan# 386

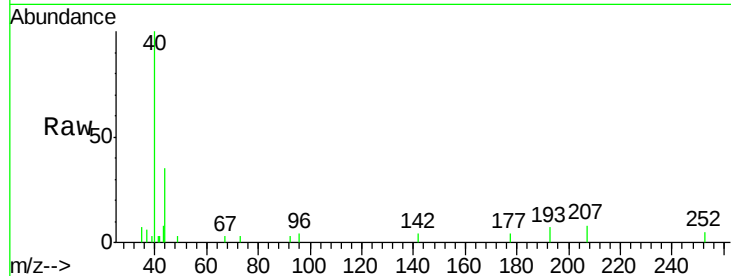
Delta R.T. -0.01 min

Lab File: VW009147.D

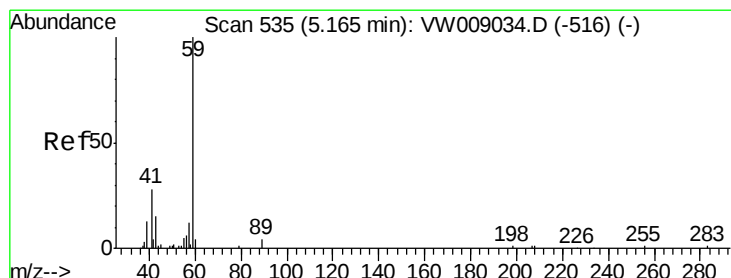
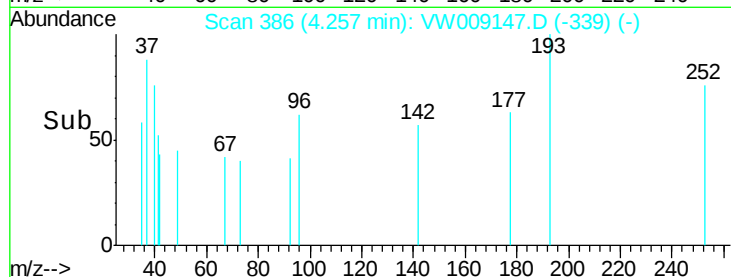
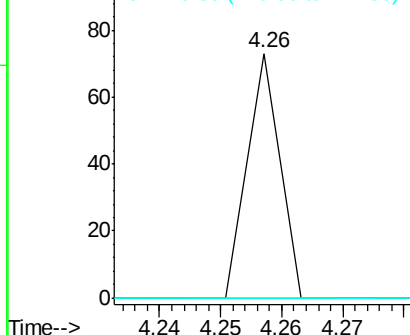
Acq: 13 Mar 2019 10:16

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:142	Resp: 27
Ion Ratio	Lower Upper
142 100	
127 0.0	35.8 53.6#
141 0.0	11.8 17.8#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 54.416 ug/l

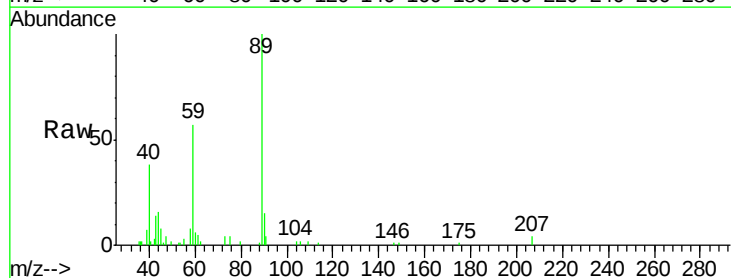
RT: 5.13 min Scan# 529

Delta R.T. -0.04 min

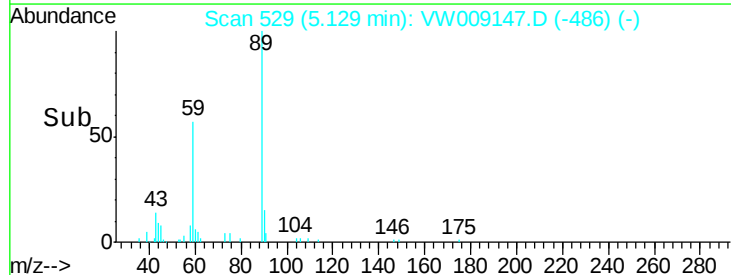
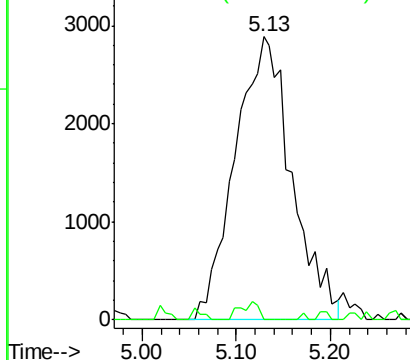
Lab File: VW009147.D

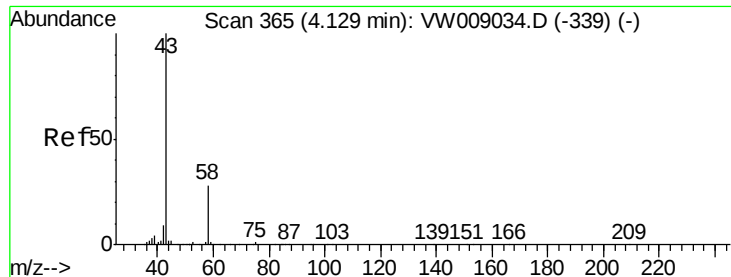
Acq: 13 Mar 2019 10:16

Tgt Ion: 59	Resp:	12088	
Ion	Ratio	Lower	Upper
59	100		
57	2.0	8.6	12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 35.047 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Instrument :

MSVOA_W

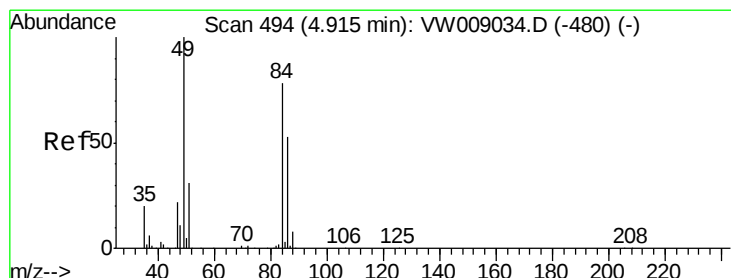
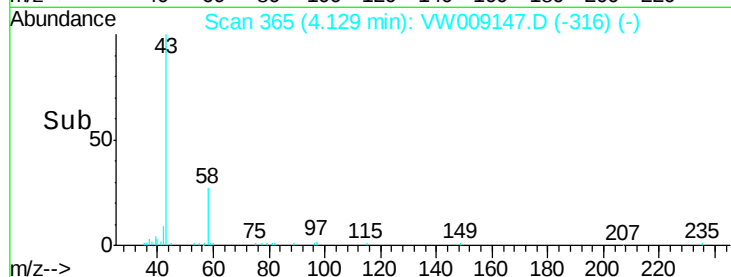
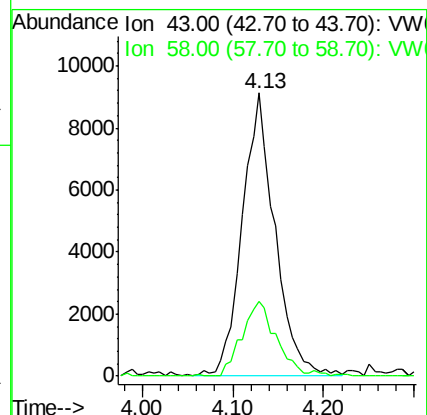
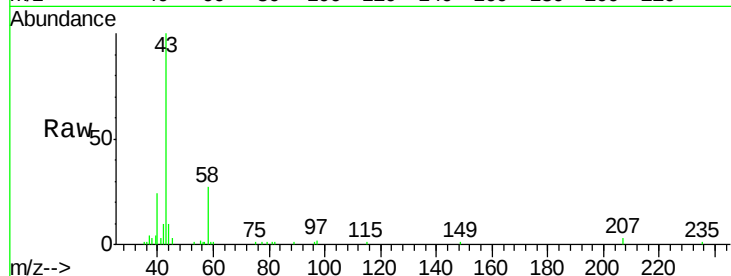
ClientSampled :

Tot Ion: 43 Resp: 22926

Ion Ratio Lower Upper

43 100

58 26.6 22.5 33.7



#20

Methylene Chloride

Concen: 4.654 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Tgt Ion: 84 Resp: 29464

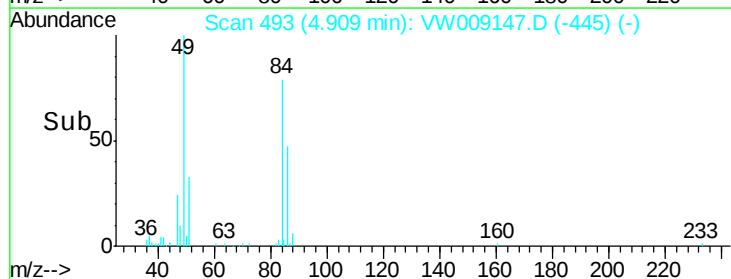
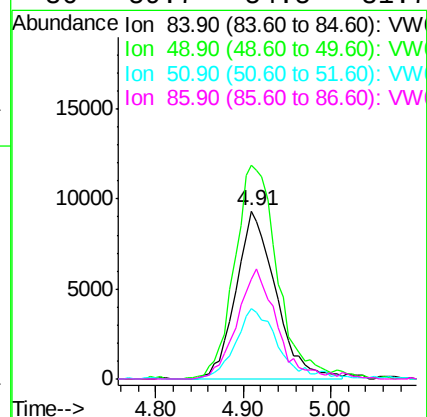
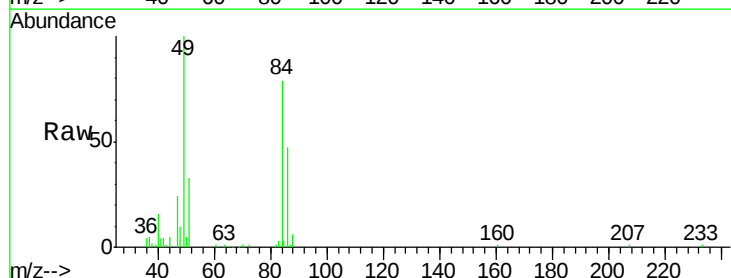
Ion Ratio Lower Upper

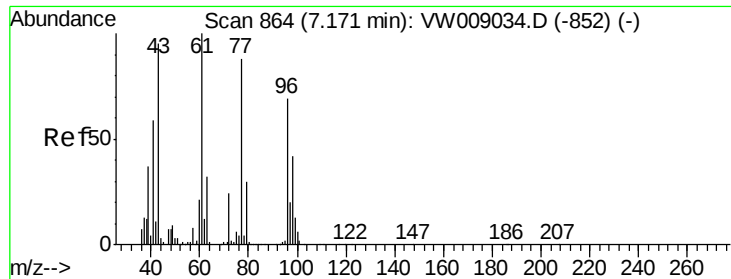
84 100

49 126.2 102.4 153.6

51 42.1 31.6 47.4

86 59.7 54.5 81.7





#25

2-Butanone

Concen: 9.277 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

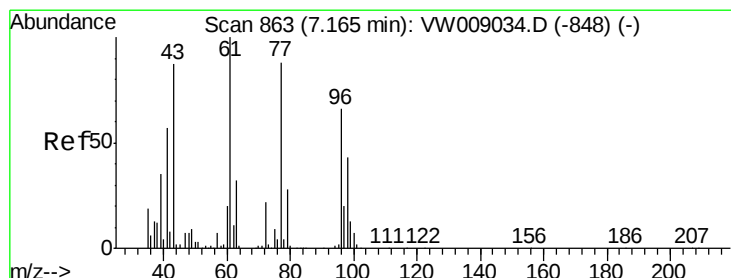
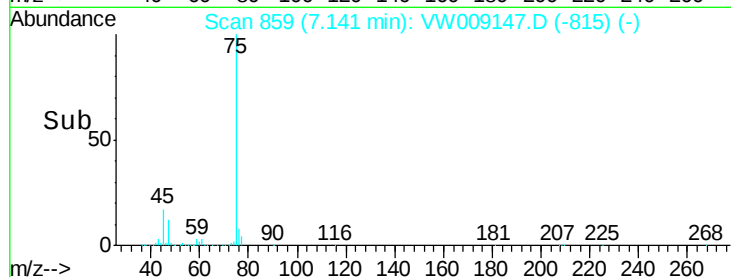
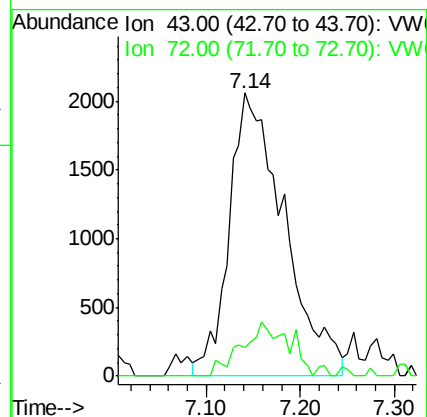
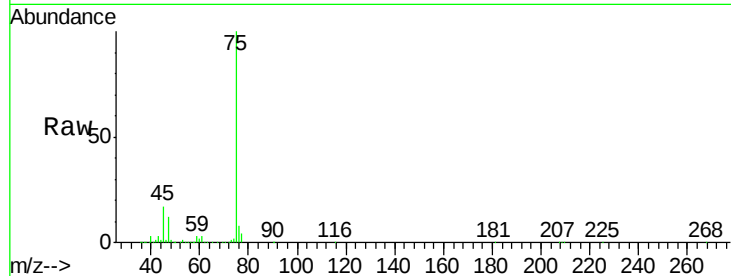
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 8387

Ion Ratio Lower Upper

43 100

72 10.8 20.0 30.0#



#26

2,2-Dichloropropane

Concen: 1.473 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW009147.D

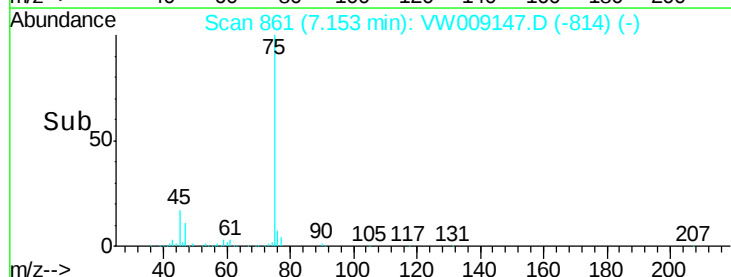
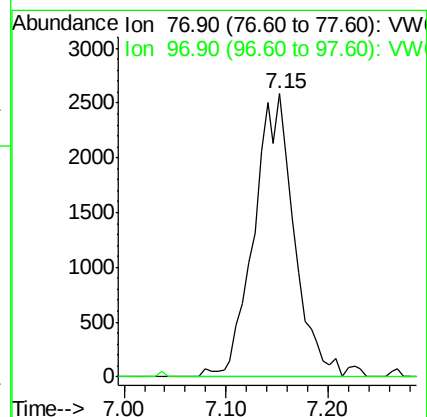
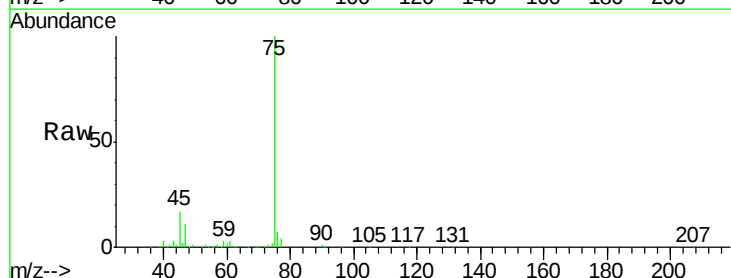
Acq: 13 Mar 2019 10:16

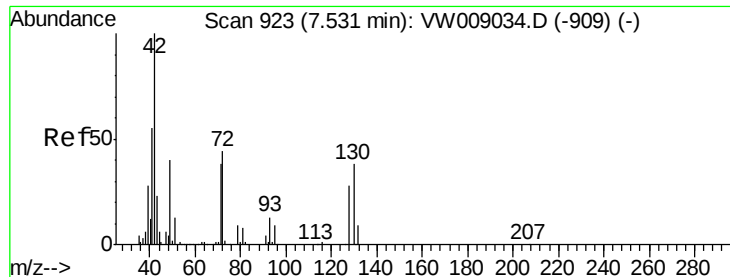
Tgt Ion: 77 Resp: 7050

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#

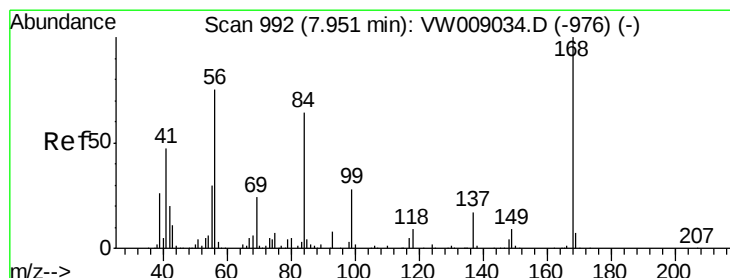
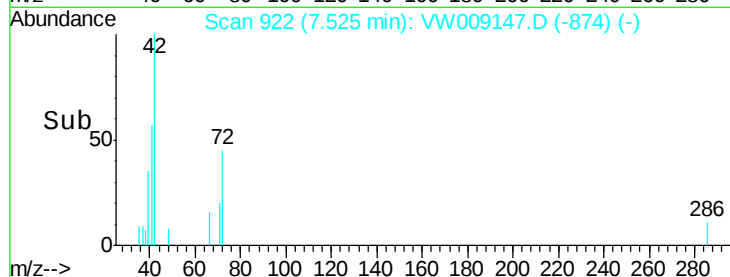
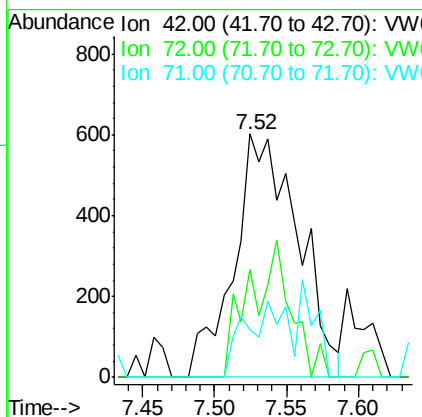
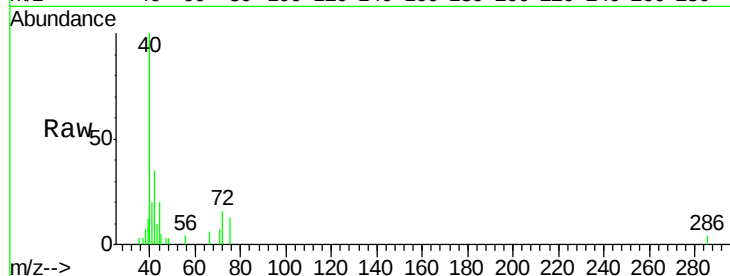




#29
Tetrahydrofuran
Concen: 3.260 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW009147.D
Acq: 13 Mar 2019 10:16

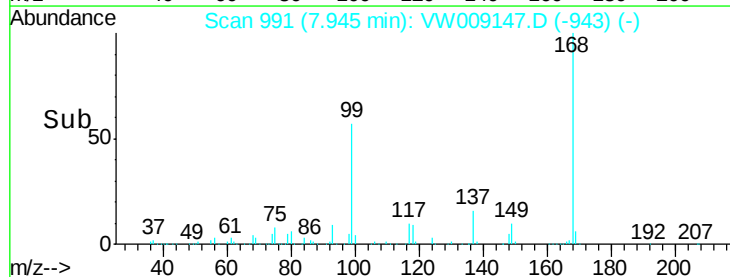
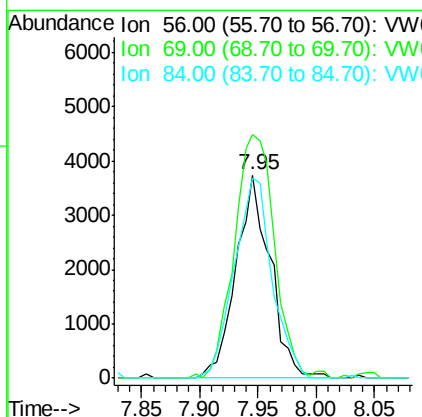
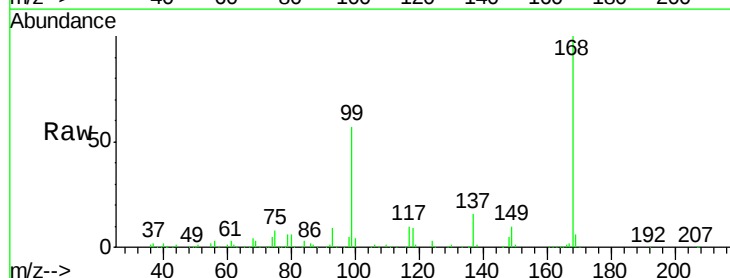
Instrument :
MSVOA_W
ClientSampleId :

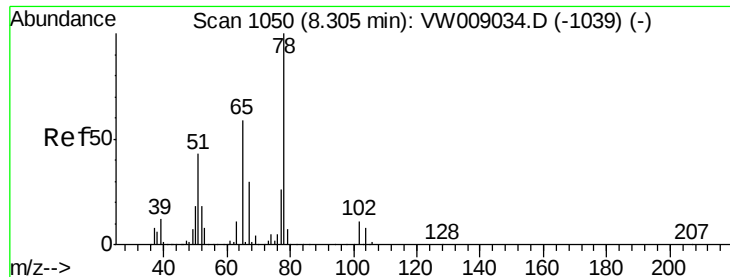
Tot Ion: 42 Resp: 1857
Ion Ratio Lower Upper
42 100
72 0.0 32.2 48.4#
71 9.2 30.7 46.1#



#31
Cyclohexane
Concen: 1.420 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW009147.D
Acq: 13 Mar 2019 10:16

Tgt Ion: 56 Resp: 7677
Ion Ratio Lower Upper
56 100
69 120.0 25.5 38.3#
84 98.6 68.6 103.0





#33

1,2-Dichloroethane-d4

Concen: 58.648 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Instrument :

MSVOA_W

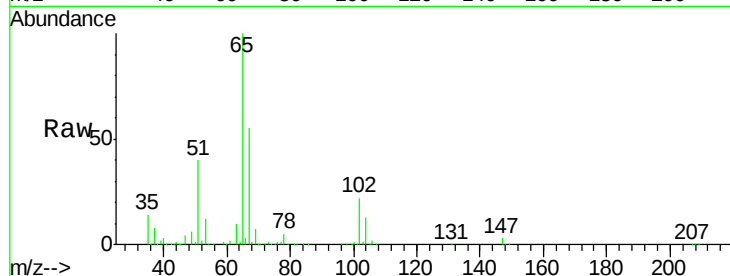
ClientSampleId :

Tot Ion: 65 Resp: 170012

Ion Ratio Lower Upper

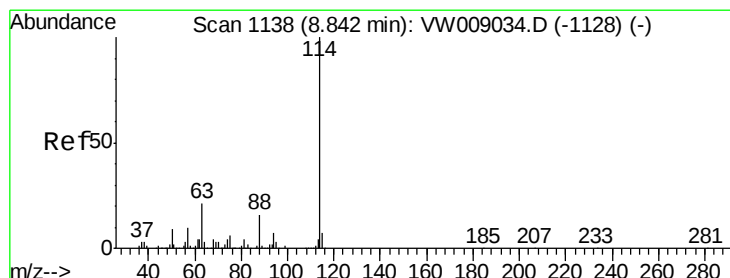
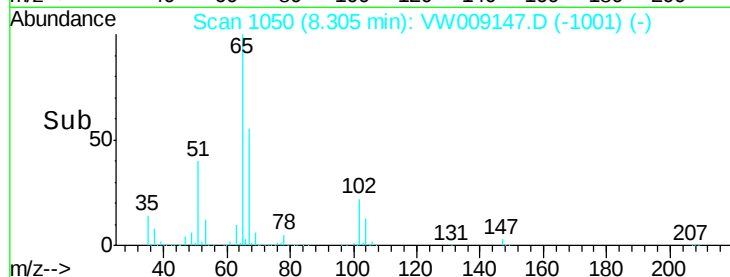
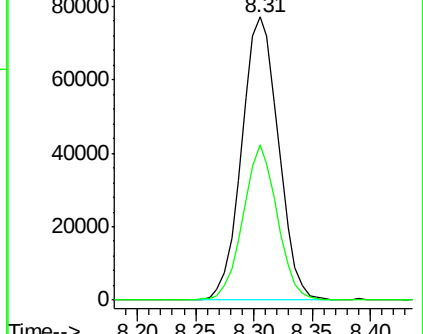
65 100

67 51.4 0.0 103.0



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: VW009147.D

Acq: 13 Mar 2019 10:16

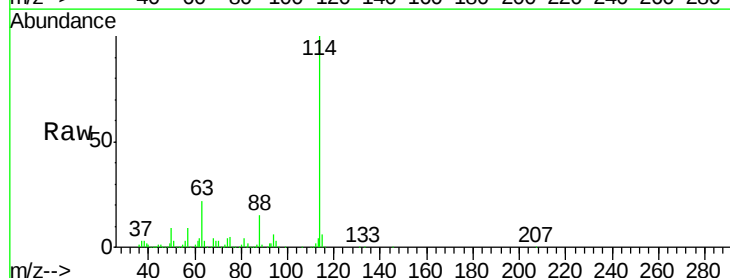
Tgt Ion: 114 Resp: 460548

Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.2

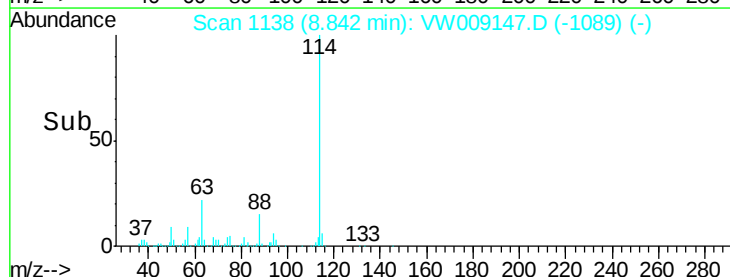
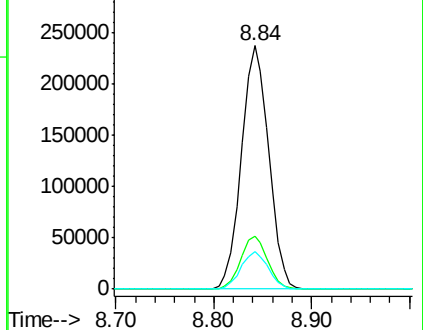
88 15.4 0.0 31.2

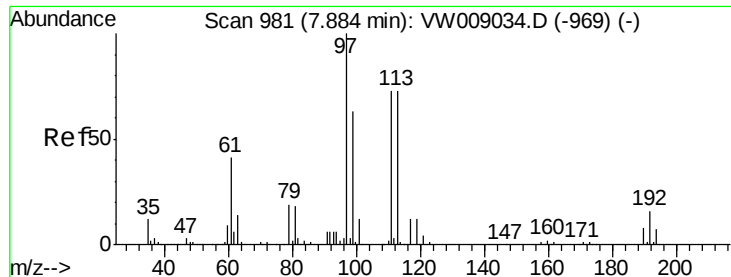


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

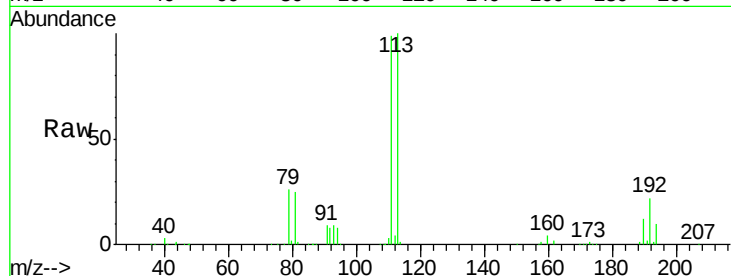




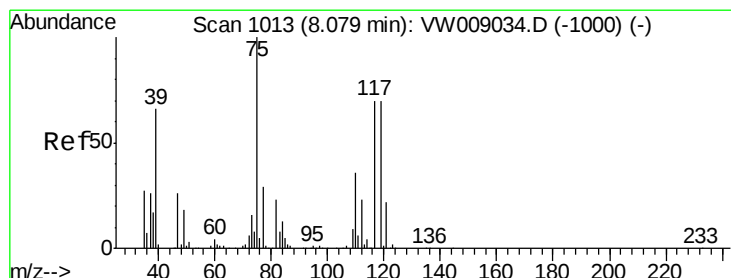
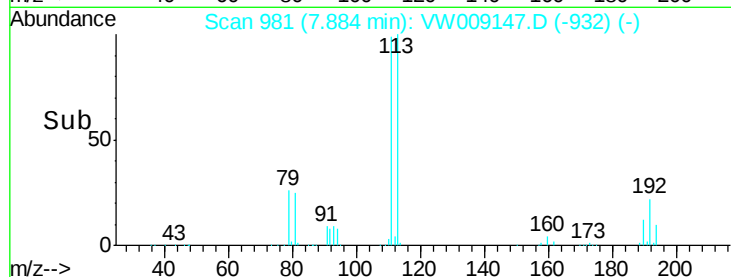
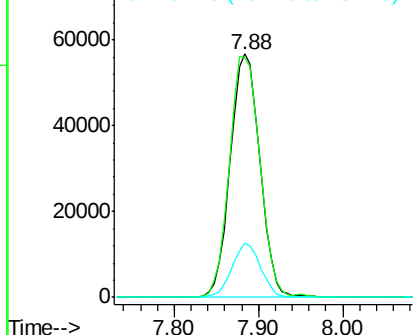
#35
 Dibromofluoromethane
 Concen: 48.568 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW009147.D
 Acq: 13 Mar 2019 10:16

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 134674
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.0 121.4
 192 21.3 17.1 25.7

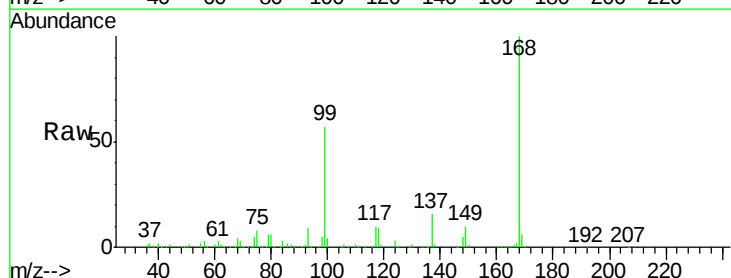


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

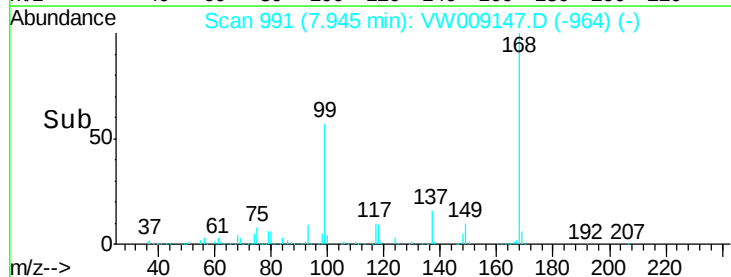
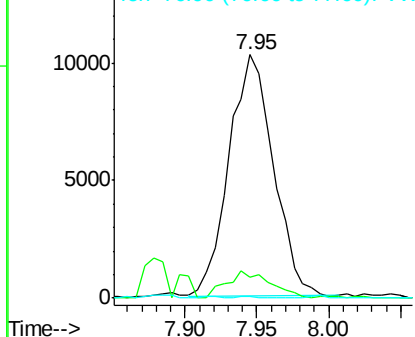


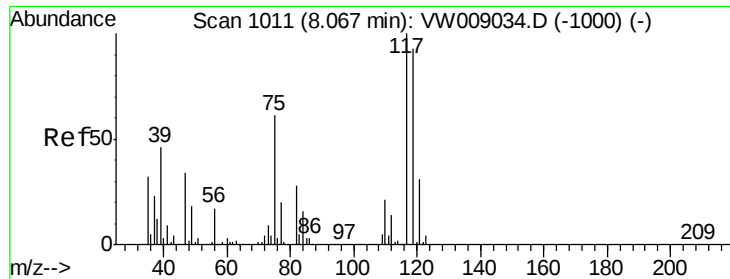
#36
 1,1-Dichloropropene
 Concen: 4.597 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009147.D
 Acq: 13 Mar 2019 10:16

Tgt Ion: 75 Resp: 22138
 Ion Ratio Lower Upper
 75 100
 110 11.2 17.6 52.9#
 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: 5.796 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Instrument :

MSVOA_W

ClientSampled :

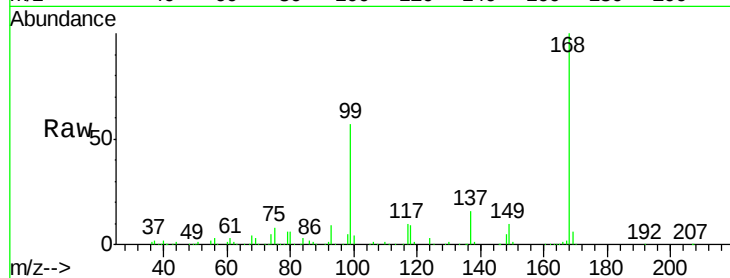
Tot Ion:117 Resp: 28826

Ion Ratio Lower Upper

117 100

119 6.5 74.6 112.0#

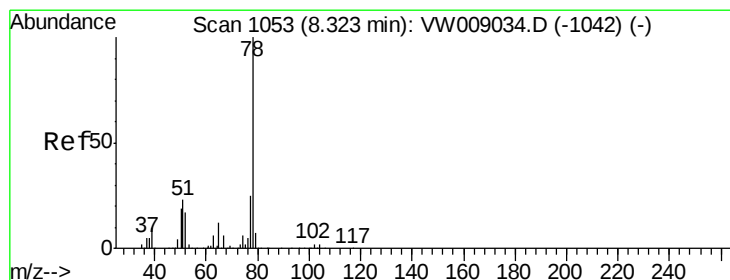
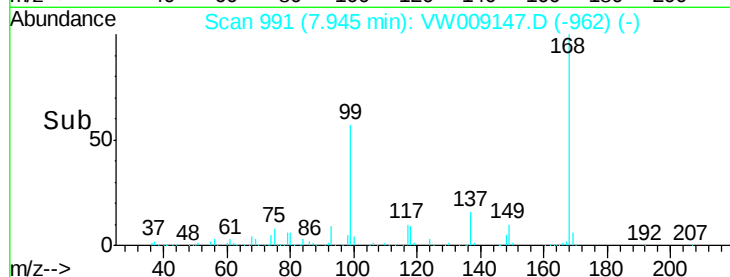
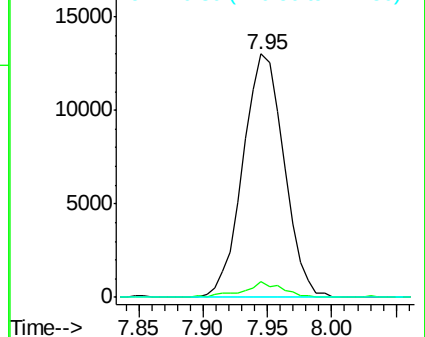
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 1.514 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW009147.D

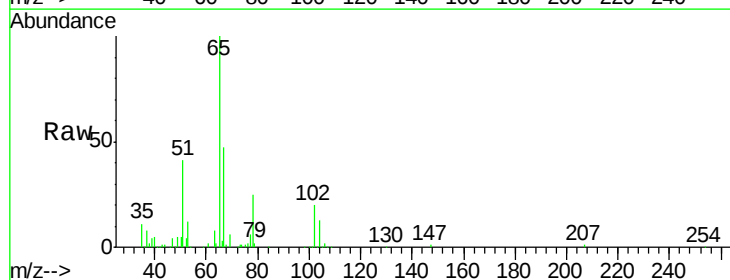
Acq: 13 Mar 2019 10:16

Tgt Ion: 78 Resp: 19466

Ion Ratio Lower Upper

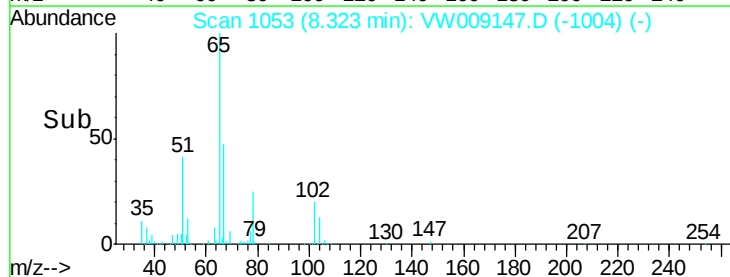
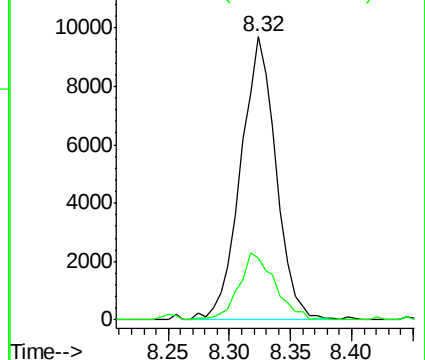
78 100

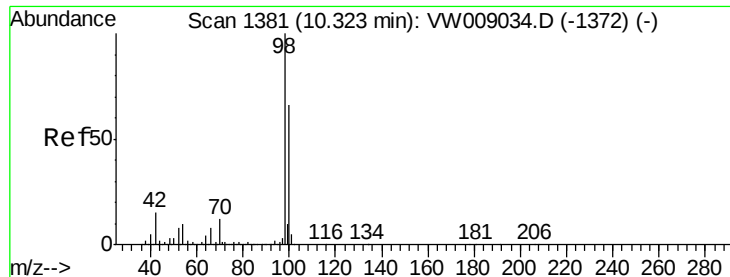
77 22.1 20.2 30.4



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW





#50

Toluene-d8

Concen: 48.664 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Instrument :

MSVOA_W

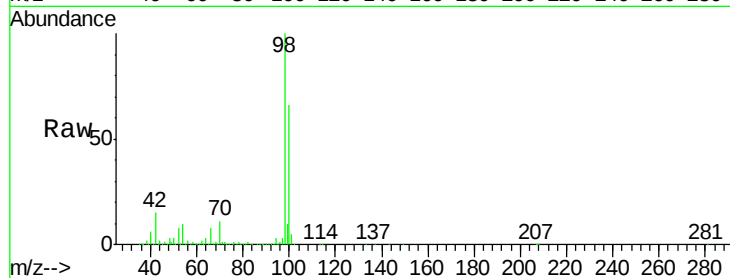
ClientSampleId :

Tot Ion: 98 Resp: 554224

Ion Ratio Lower Upper

98 100

100 65.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

300000

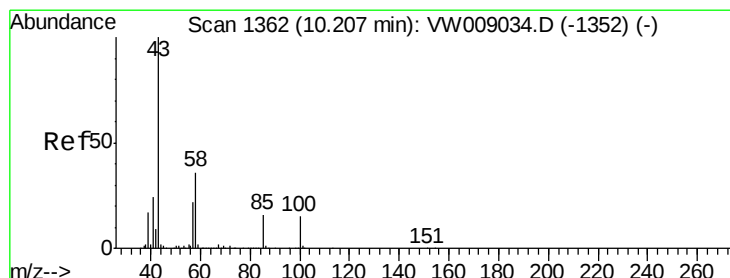
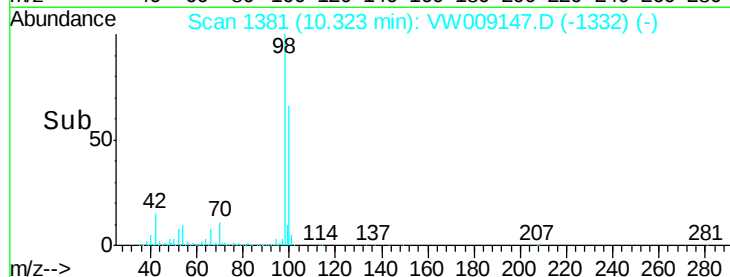
200000

100000

0

Time-->

10.20 10.30 10.40



#51

4-Methyl-2-Pentanone

Concen: 1.292 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW009147.D

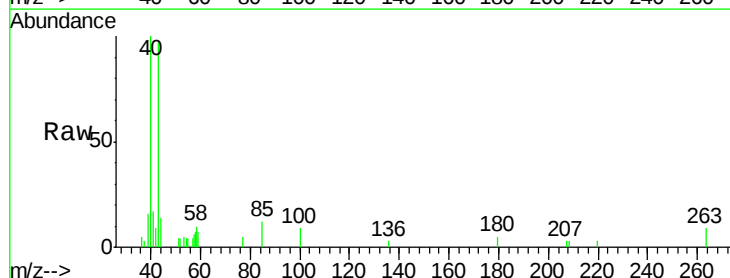
Acq: 13 Mar 2019 10:16

Tgt Ion: 43 Resp: 2764

Ion Ratio Lower Upper

43 100

58 30.5 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

2000

1500

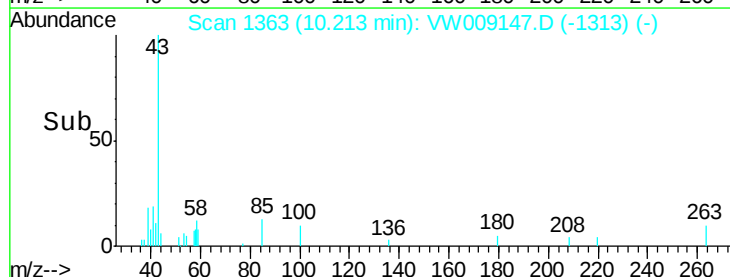
1000

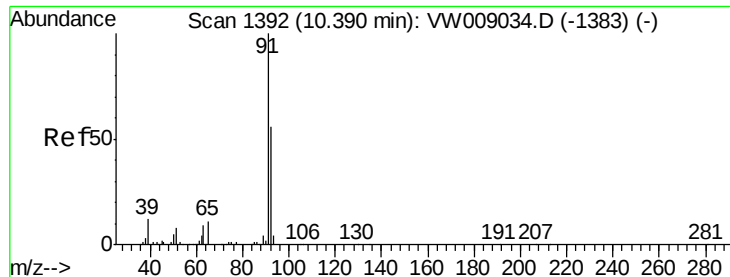
500

0

Time-->

10.15 10.20 10.25





#52

Toluene

Concen: 2.878 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Instrument :

MSVOA_W

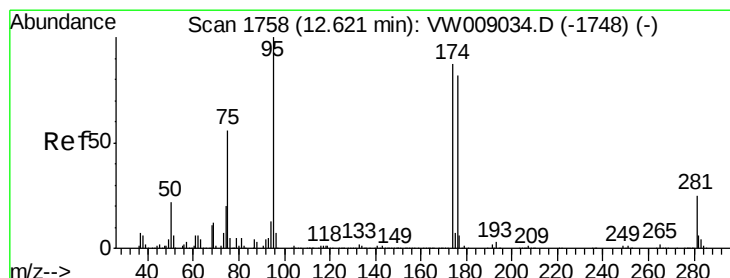
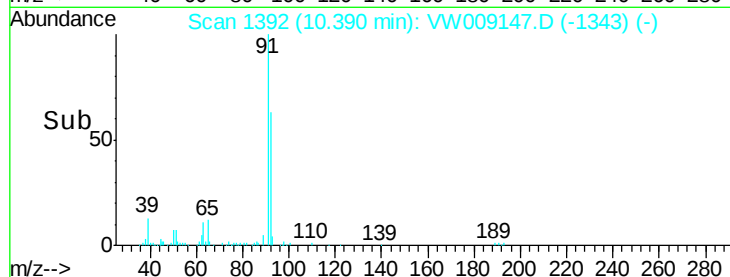
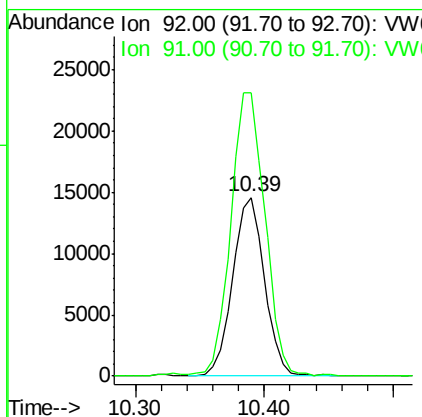
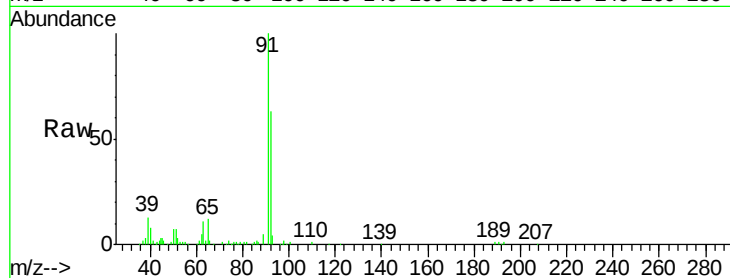
ClientSampled :

Tot Ion: 92 Resp: 25089

Ion Ratio Lower Upper

92 100

91 170.3 139.9 209.9



#62

4-Bromofluorobenzene

Concen: 43.734 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

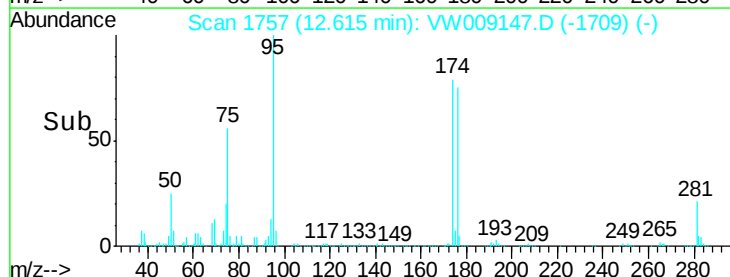
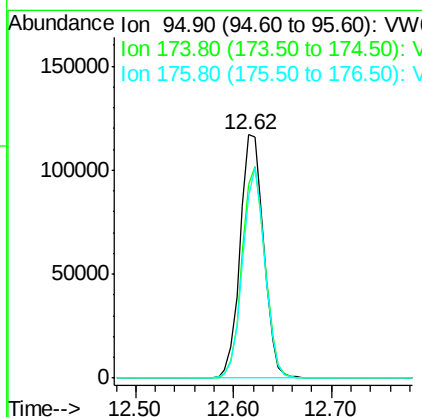
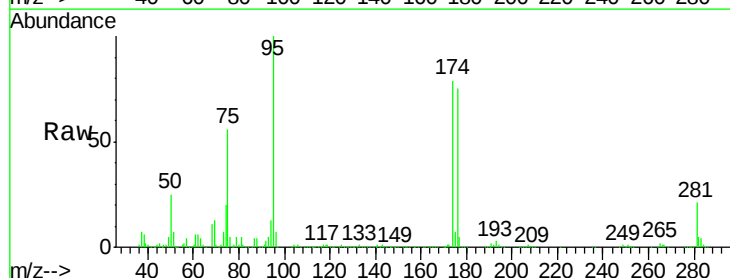
Tgt Ion: 95 Resp: 196074

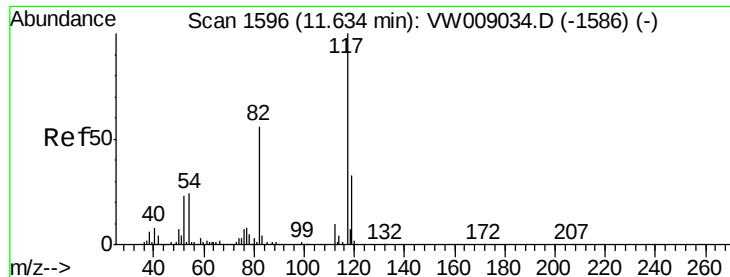
Ion Ratio Lower Upper

95 100

174 84.3 0.0 167.0

176 81.1 0.0 159.4

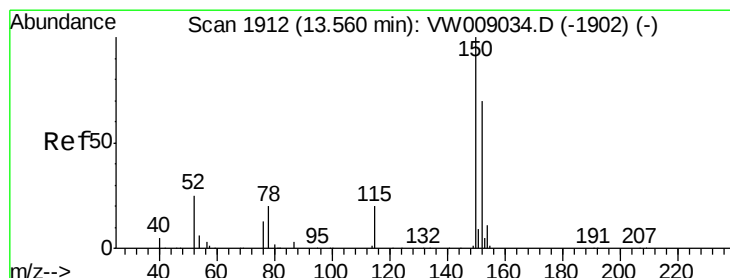
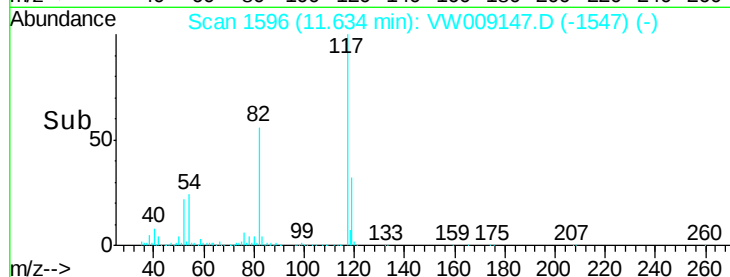
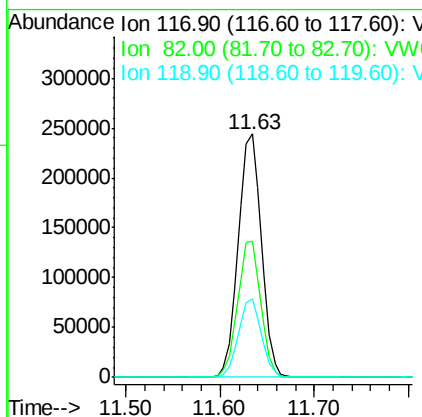
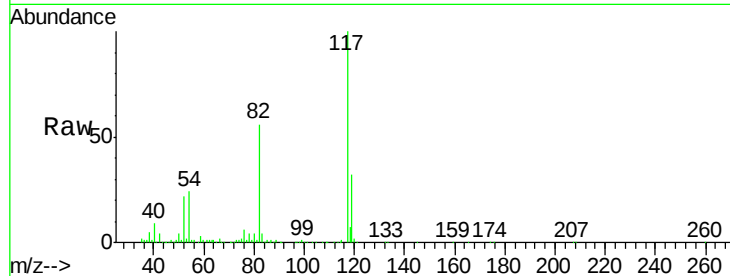




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW009147.D
Acq: 13 Mar 2019 10:16

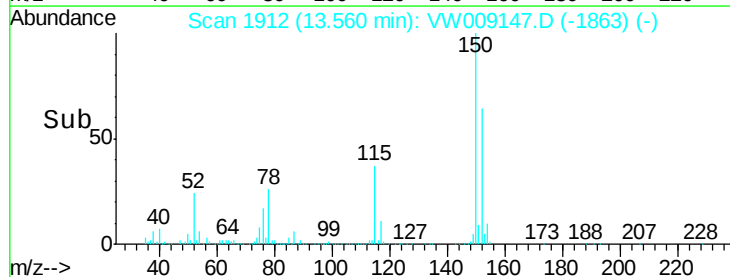
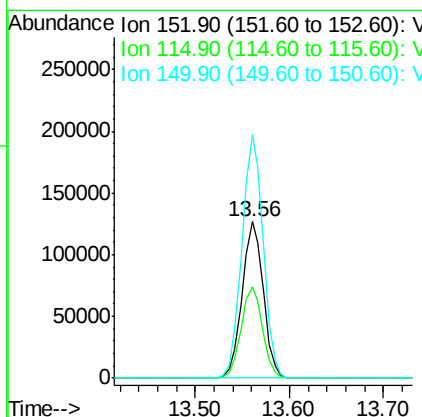
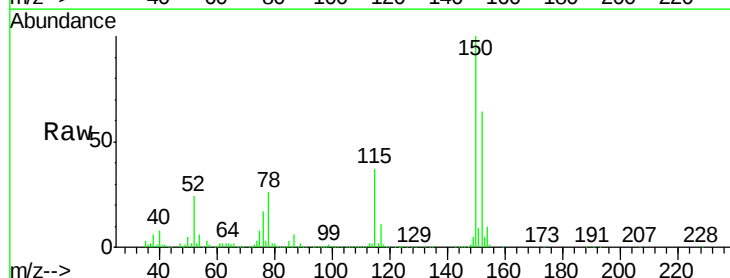
Instrument :
MSVOA_W
ClientSampleId :

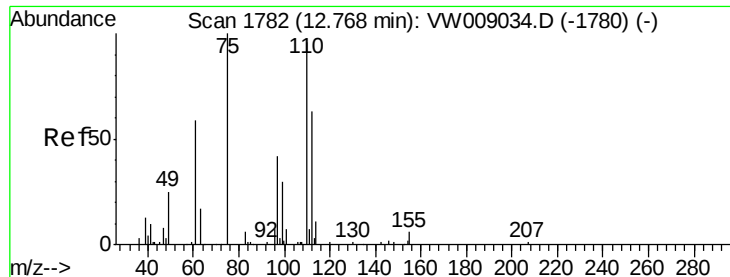
Tot Ion:117 Resp: 416730
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.6
119 32.4 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW009147.D
Acq: 13 Mar 2019 10:16

Tgt Ion:152 Resp: 196568
Ion Ratio Lower Upper
152 100
115 58.6 28.9 86.7
150 156.1 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 68.704 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Instrument :

MSVOA_W

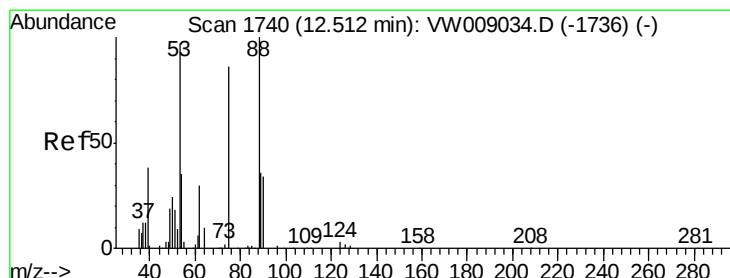
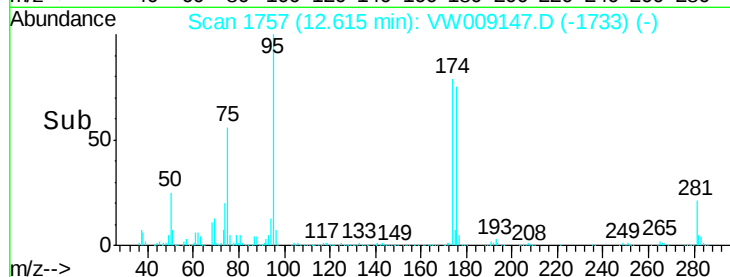
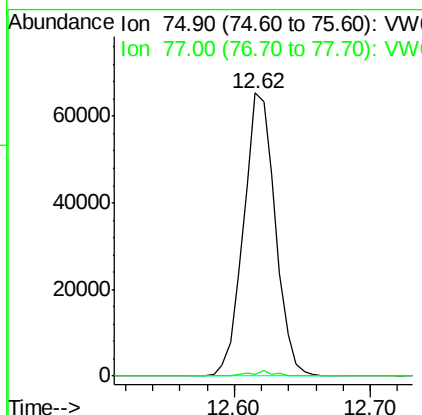
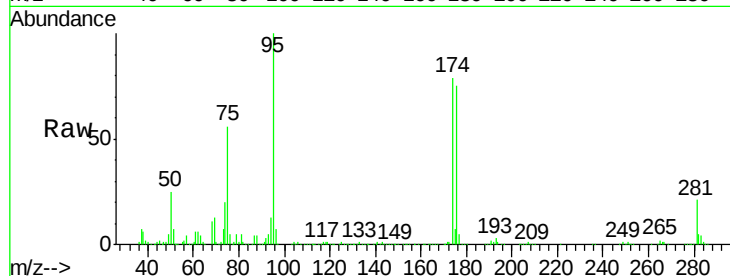
ClientSampleId :

Tot Ion: 75 Resp: 106700

Ion Ratio Lower Upper

75 100

77 1.4 186.7 560.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 153.672 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009147.D

Acq: 13 Mar 2019 10:16

Tgt Ion: 75 Resp: 106700

Ion Ratio Lower Upper

75 100

53 0.2 90.5 135.7#

89 0.2 37.5 56.3#

