

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022819\
 Data File : VW008913.D
 Acq On : 01 Mar 2019 04:29
 Operator : SY/VA
 Sample : K1665-07
 Misc : 7.03G/5ML/MSVOA W/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 200031

Quant Time: Mar 01 06:07:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	26539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	35909	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	35472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	15460	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	13739	55.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.40%	
35) Dibromofluoromethane	7.89	113	11624	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
50) Toluene-d8	10.32	98	43869	52.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.62	95	15282	46.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.80%	

Target Compounds

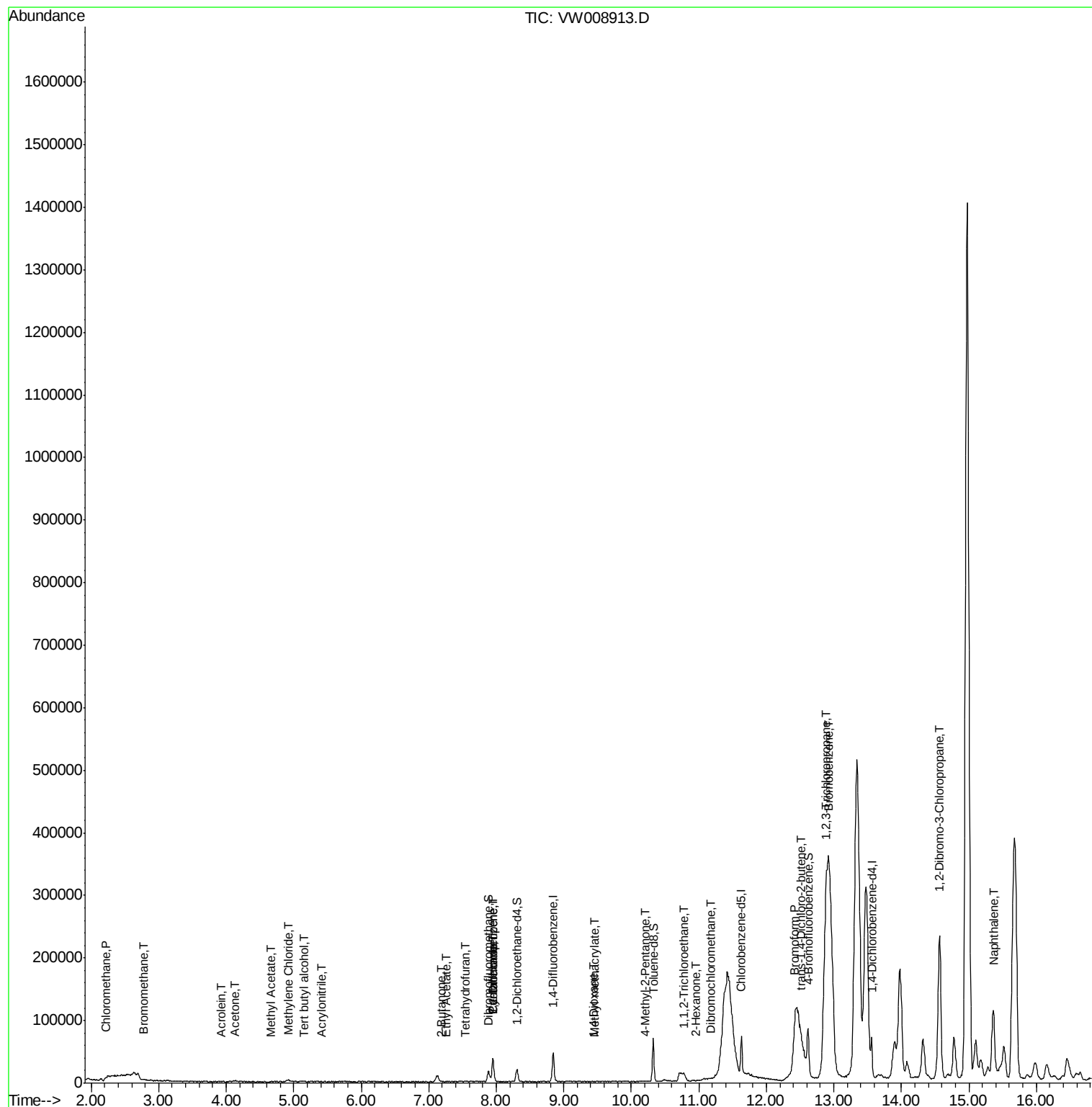
						Qvalue
3) Chloromethane	2.22	50	796	2.460	ug/l #	69
5) Bromomethane	2.78	94	378	1.486	ug/l #	29
11) Tert butyl alcohol	5.15	59	199	8.980	ug/l #	23
13) Acrolein	3.92	56	72	22.617	ug/l #	80
15) Acrylonitrile	5.42	53	104	1.767	ug/l #	43
16) Acetone	4.13	43	3256	56.434	ug/l	92
18) Methyl Acetate	4.67	43	160	1.169	ug/l #	76
20) Methylene Chloride	4.93	84	2576	4.404	ug/l #	66
25) 2-Butanone	7.18	43	299	3.707	ug/l #	51
29) Tetrahydrofuran	7.55	42	332	6.459	ug/l #	41
31) Cyclohexane	7.95	56	682	1.453	ug/l #	35
36) 1,1-Dichloropropene	7.95	75	2552	7.301	ug/l #	54
37) Ethyl Acetate	7.25	43	225	1.384	ug/l #	70
48) Methyl methacrylate	9.46	41	207	1.332	ug/l #	21
49) 1,4-Dioxane	9.45	88	51	24.277	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	183	1.111	ug/l #	41
55) 1,1,2-Trichloroethane	10.79	97	830	4.665	ug/l #	16
59) 2-Hexanone	10.95	43	180	1.535	ug/l	66
60) Dibromochloromethane	11.18	129	487	2.244	ug/l	72
71) Bromoform	12.41	173	163	1.202	ug/l #	55
76) 1,2,3-Trichloropropane	12.88	75	5982	46.865	ug/l #	100
77) Bromobenzene	12.92	156	622869	2486.968	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.52	75	1244	23.693	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.56	75	5655	180.519	ug/l #	4
95) Naphthalene	15.36	128	1926	3.391	ug/l #	21

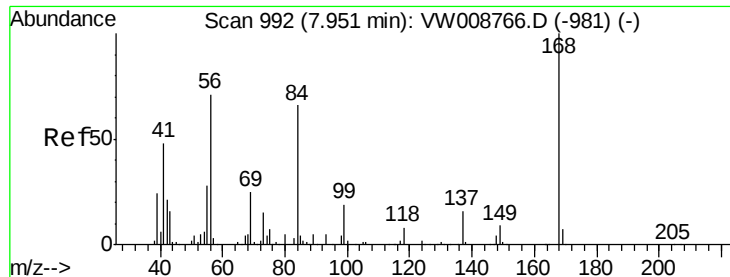
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampleId :

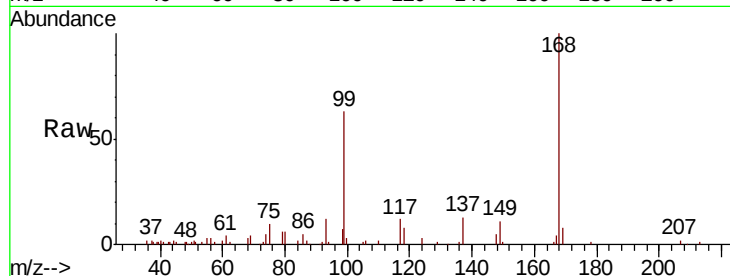
200031

Tot Ion:168 Resp: 26539

Ion Ratio Lower Upper

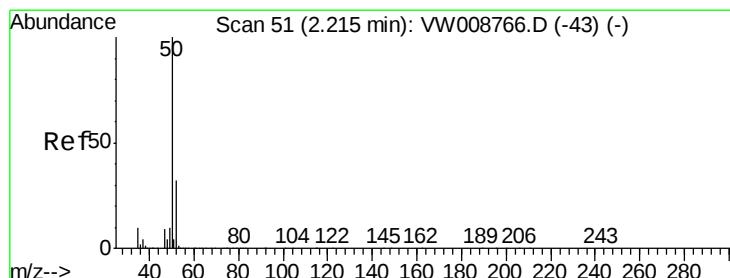
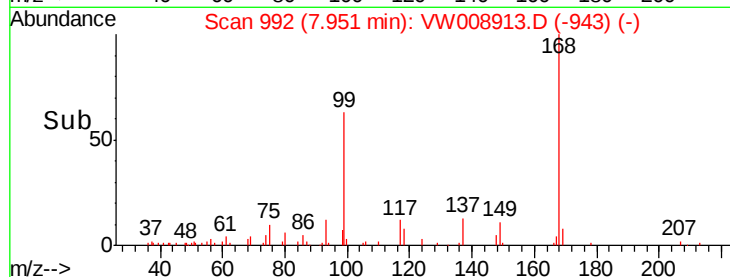
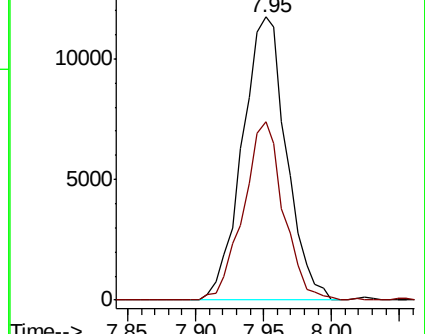
168 100

99 63.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 2.460 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW008913.D

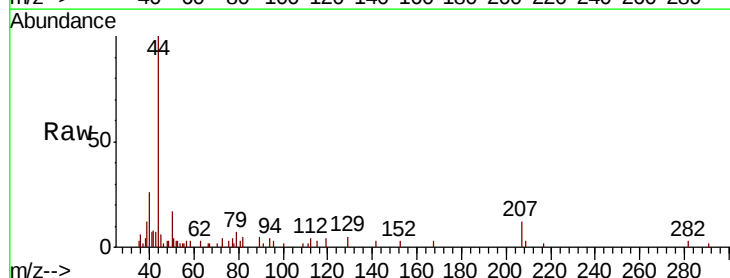
Acq: 01 Mar 2019 04:29

Tgt Ion: 50 Resp: 796

Ion Ratio Lower Upper

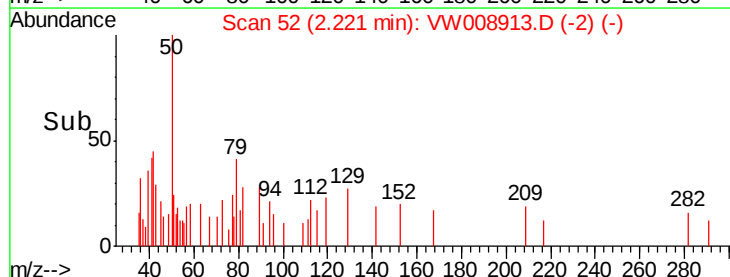
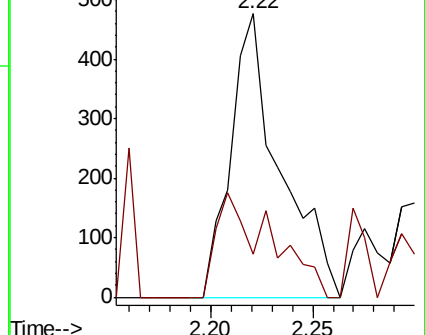
50 100

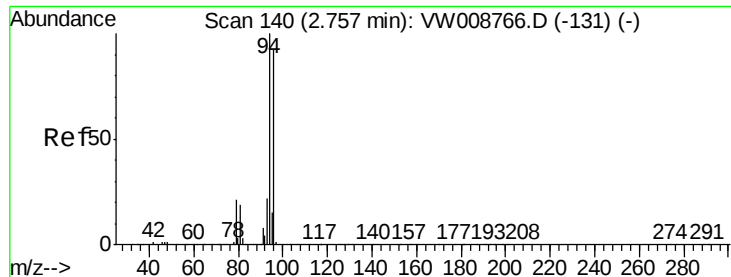
52 15.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 1.486 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.02 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampled :

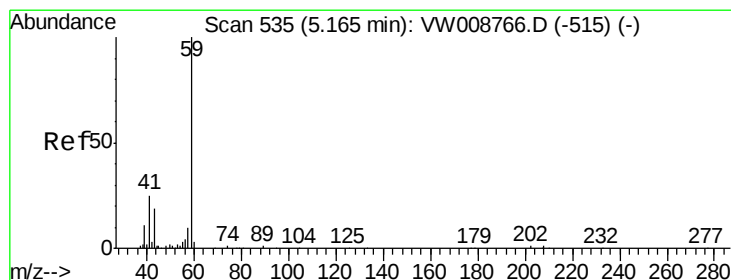
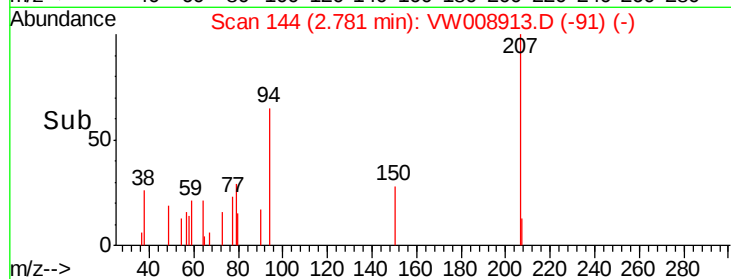
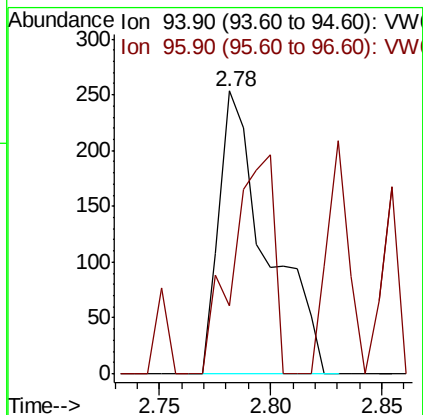
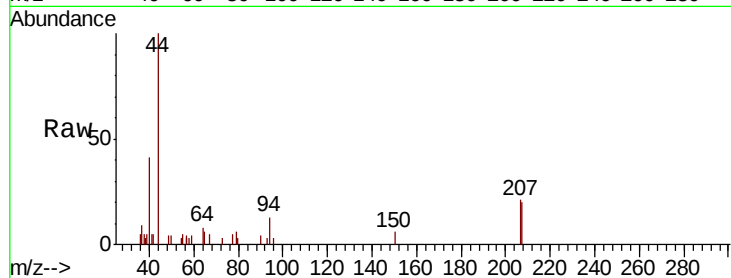
200031

Tot Ion: 94 Resp: 378

Ion Ratio Lower Upper

94 100

96 24.1 73.4 110.2#



#11

Tert butyl alcohol

Concen: 8.980 ug/l

RT: 5.15 min Scan# 533

Delta R.T. -0.01 min

Lab File: VW008913.D

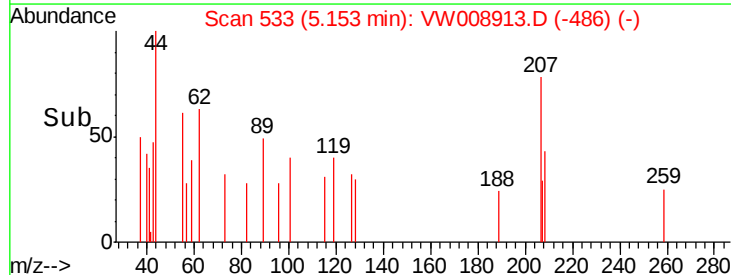
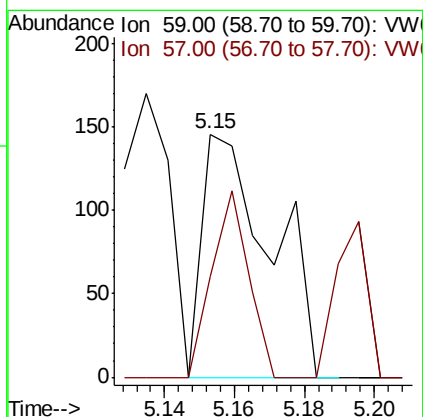
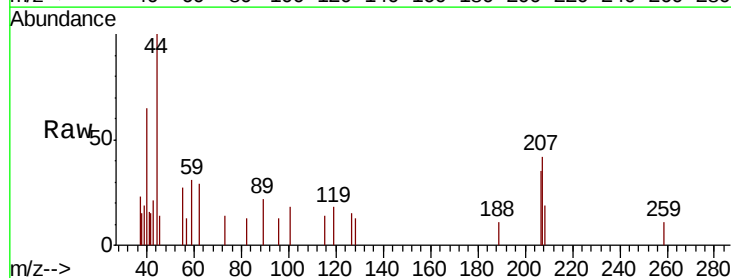
Acq: 01 Mar 2019 04:29

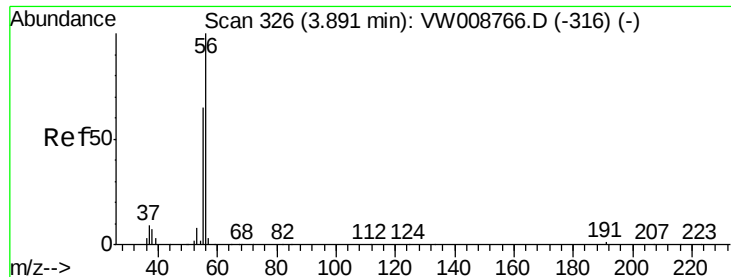
Tgt Ion: 59 Resp: 199

Ion Ratio Lower Upper

59 100

57 41.2 9.3 13.9#





#13

Acrolein

Concen: 22.617 ug/l

RT: 3.92 min Scan# 330

Delta R.T. 0.02 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampled :

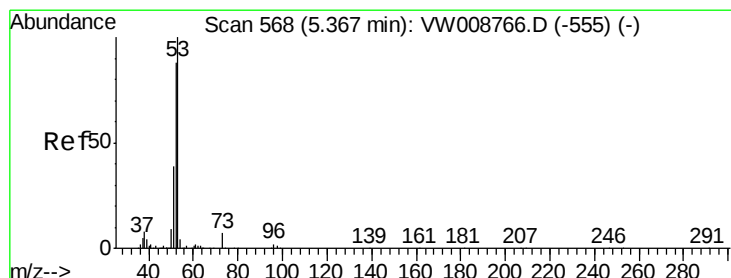
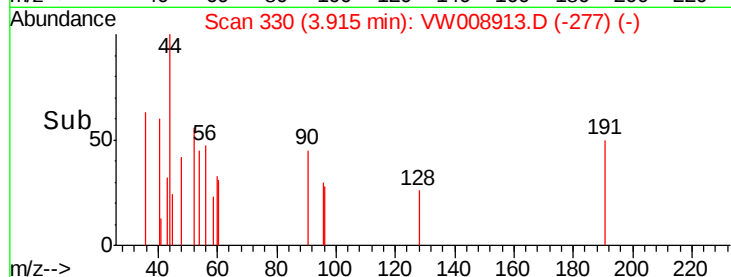
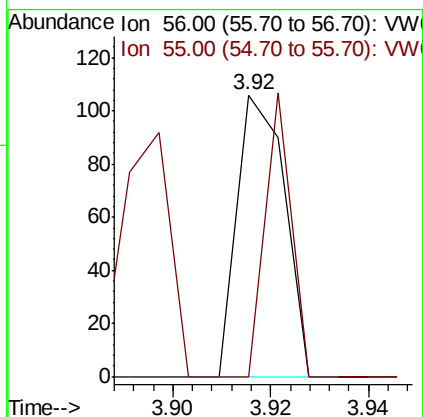
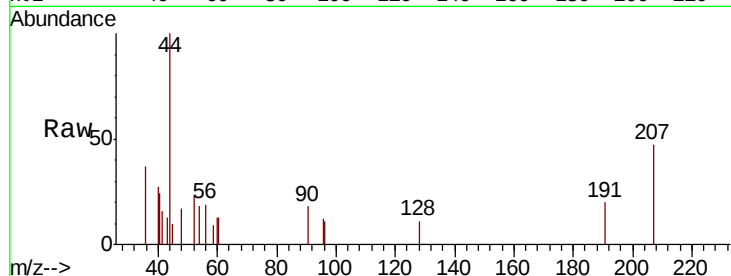
200031

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

55 54.2 56.9 85.3#



#15

Acrylonitrile

Concen: 1.767 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.05 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

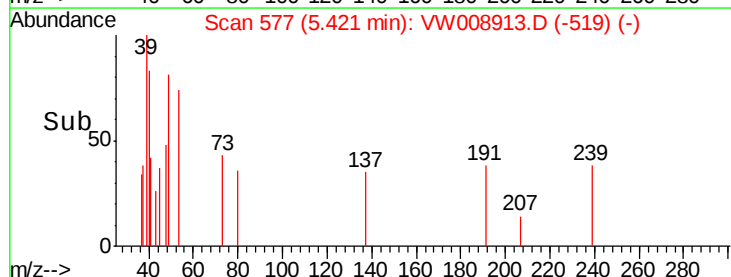
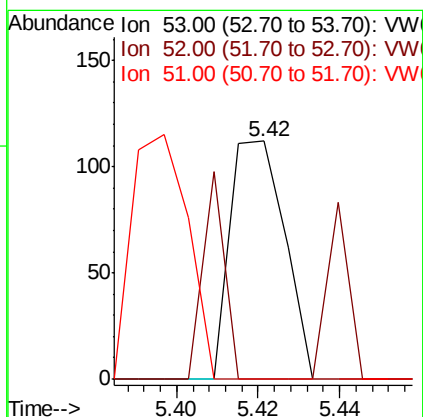
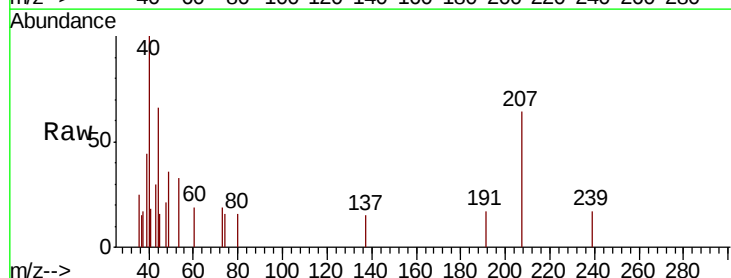
Tgt Ion: 53 Resp: 104

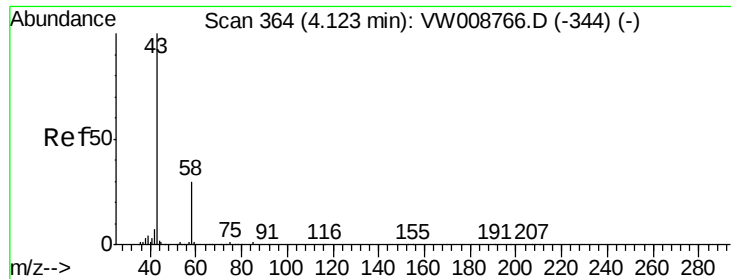
Ion Ratio Lower Upper

53 100

52 34.6 67.2 100.8#

51 0.0 31.1 46.7#

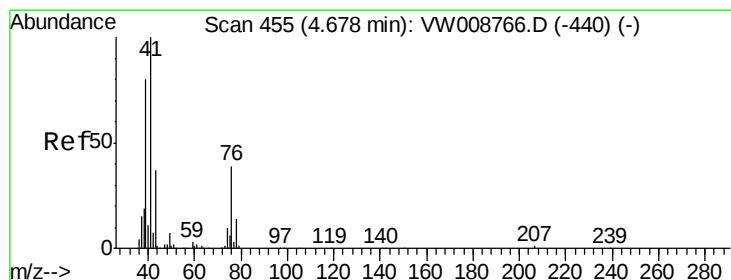
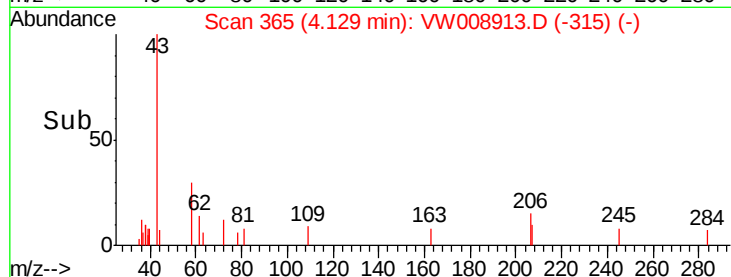
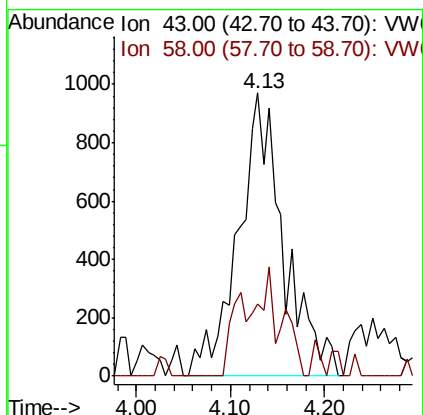
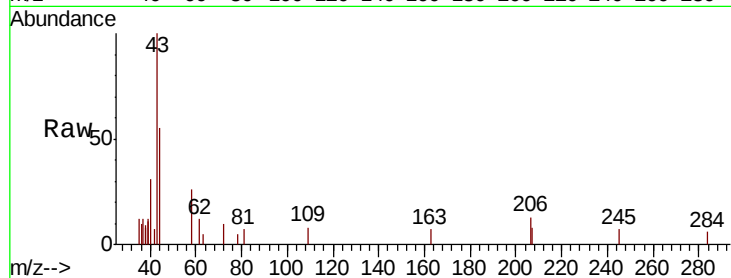




#16
Acetone
Concen: 56.434 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW008913.D
Acq: 01 Mar 2019 04:29

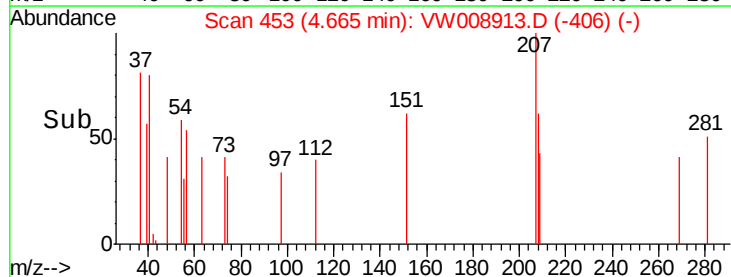
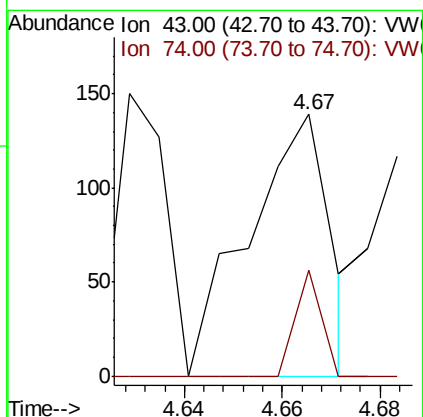
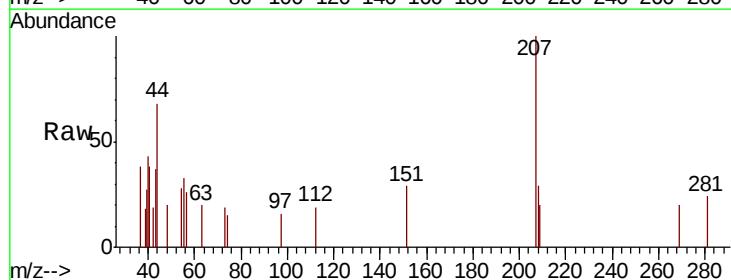
Instrument :
MSVOA_W
ClientSampled :
200031

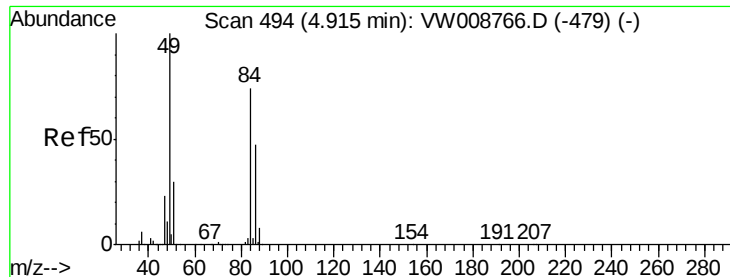
Tot Ion: 43 Resp: 3256
Ion Ratio Lower Upper
43 100
58 25.6 23.8 35.6



#18
Methyl Acetate
Concen: 1.169 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW008913.D
Acq: 01 Mar 2019 04:29

Tgt Ion: 43 Resp: 160
Ion Ratio Lower Upper
43 100
74 12.5 19.4 29.2#





#20

Methylene Chloride

Concen: 4.404 ug/l

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampled :

200031

Tot Ion: 84 Resp: 2576

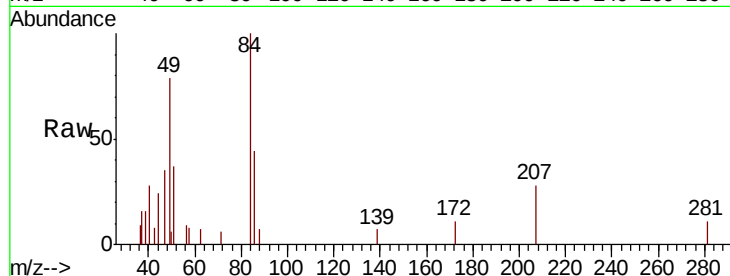
Ion Ratio Lower Upper

84 100

49 78.7 108.2 162.2#

51 36.6 32.7 49.1

86 43.8 50.3 75.5#

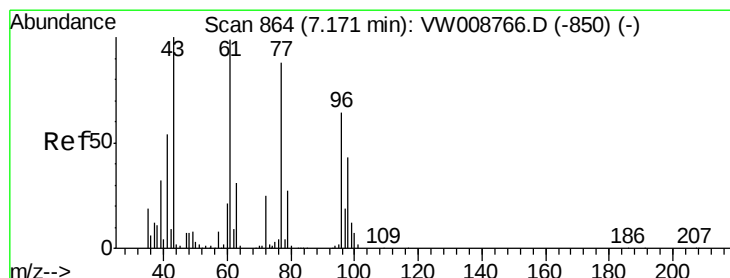
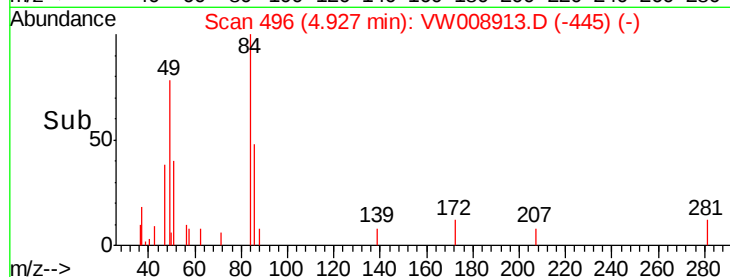
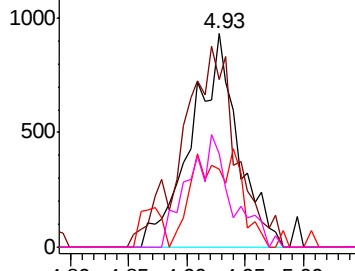


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 3.707 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW008913.D

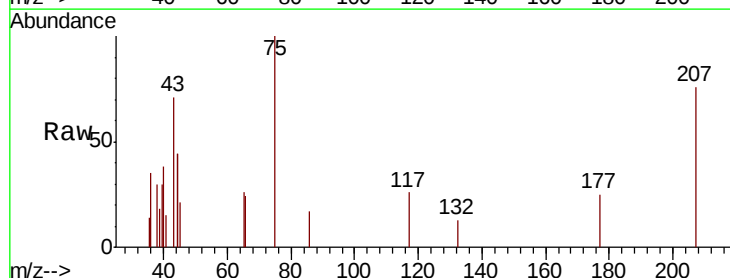
Acq: 01 Mar 2019 04:29

Tgt Ion: 43 Resp: 299

Ion Ratio Lower Upper

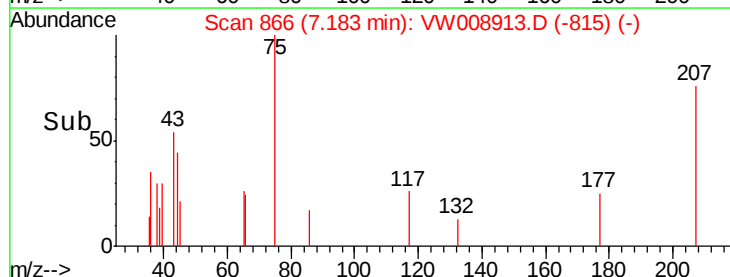
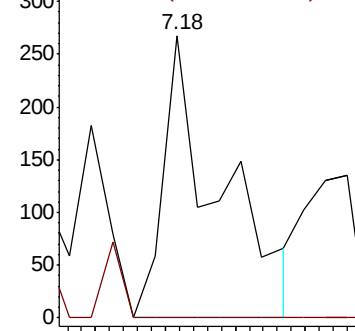
43 100

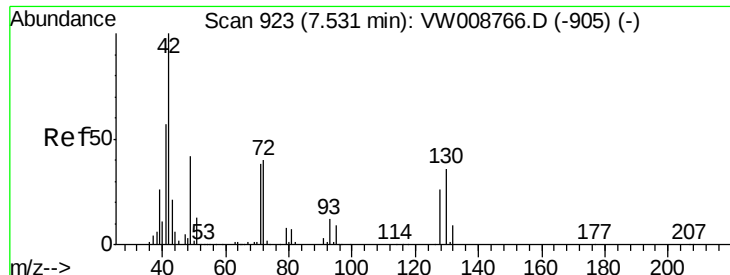
72 0.0 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

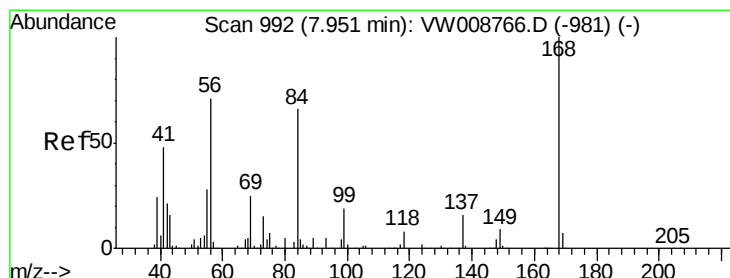
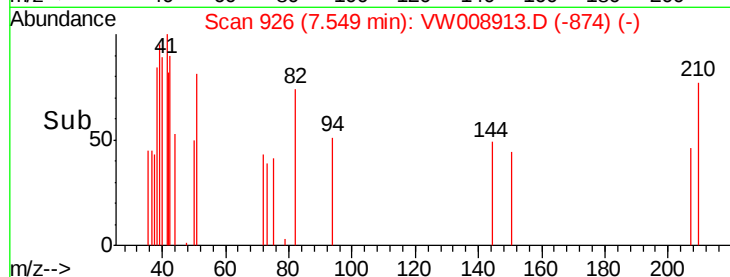
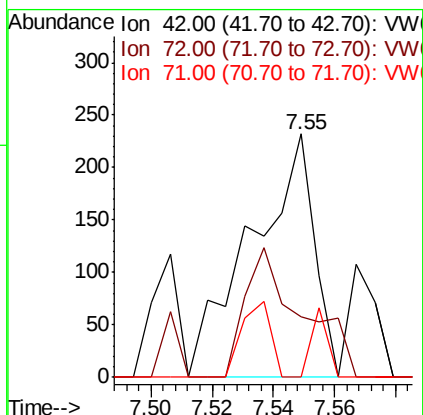
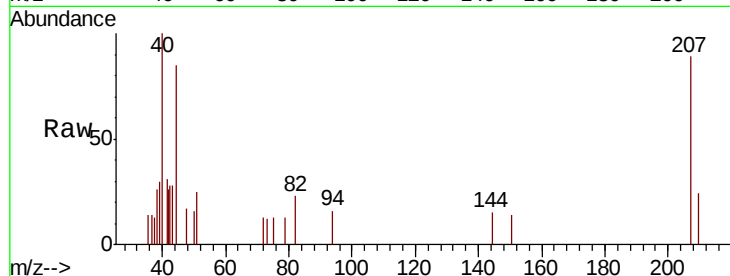




#29
Tetrahydrofuran
Concen: 6.459 ug/l
RT: 7.55 min Scan# 926
Delta R.T. 0.02 min
Lab File: VW008913.D
Acq: 01 Mar 2019 04:29

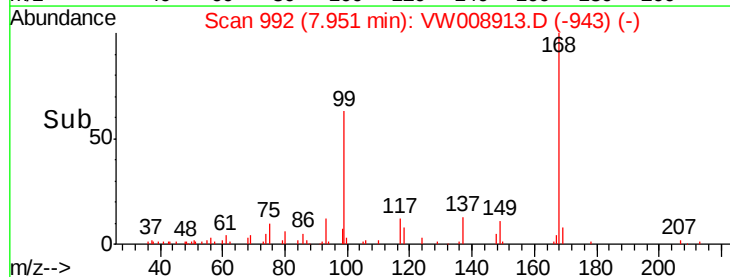
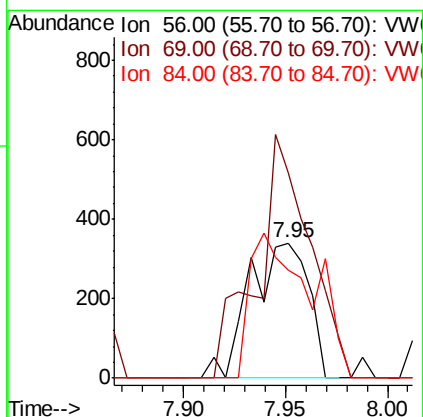
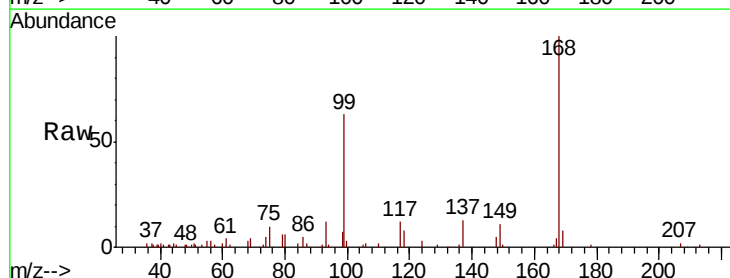
Instrument :
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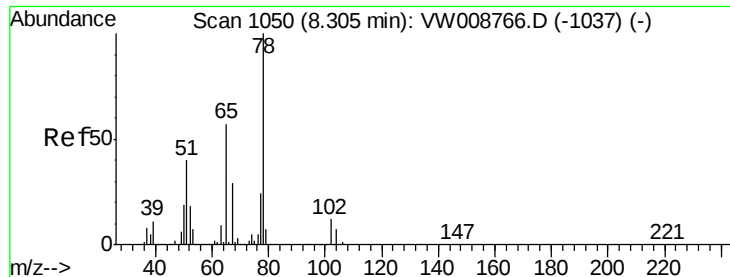
Tot Ion: 42 Resp: 332
Ion Ratio Lower Upper
42 100
72 0.0 32.7 49.1#
71 7.2 31.3 46.9#



#31
Cyclohexane
Concen: 1.453 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW008913.D
Acq: 01 Mar 2019 04:29

Tgt Ion: 56 Resp: 682
Ion Ratio Lower Upper
56 100
69 151.9 28.2 42.4#
84 80.1 74.1 111.1

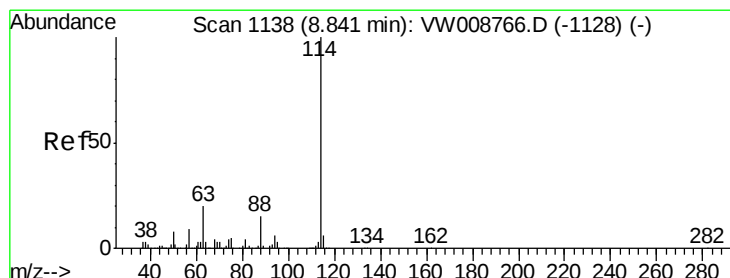
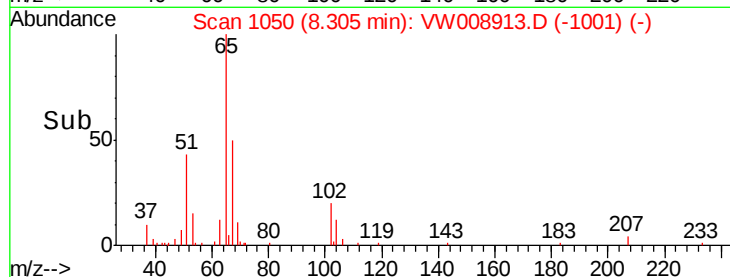
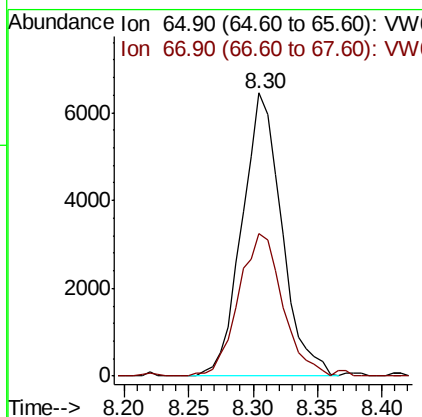
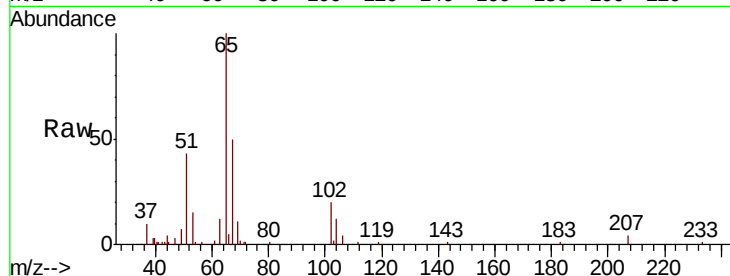




#33
 1,2-Dichloroethane-d4
 Concen: 55.196 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008913.D
 Acq: 01 Mar 2019 04:29

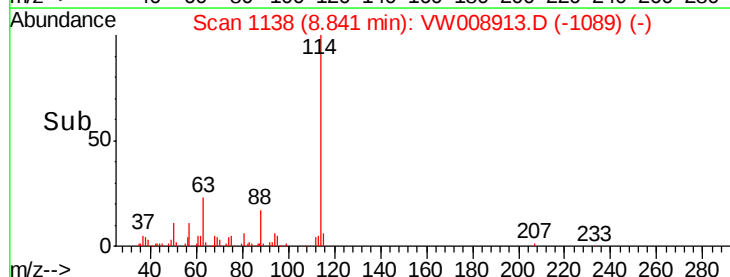
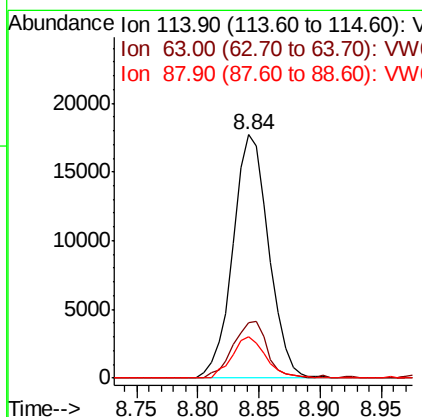
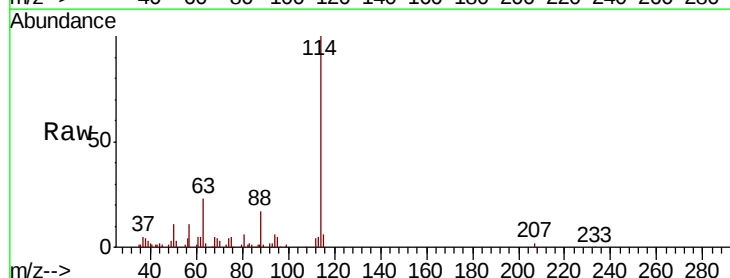
Instrument :
 MSVOA_W
 ClientSampleId :
 200031

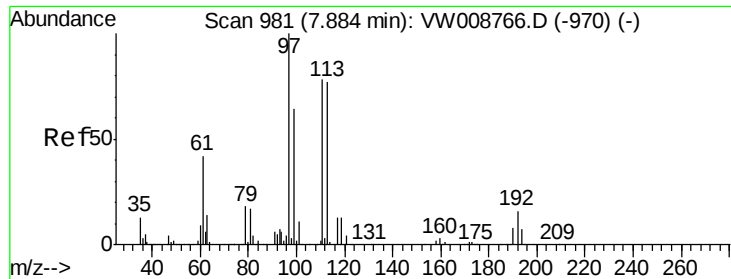
Tot Ion: 65 Resp: 13739
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW008913.D
 Acq: 01 Mar 2019 04:29

Tgt Ion: 114 Resp: 35909
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 40.8
 88 17.1 0.0 30.4

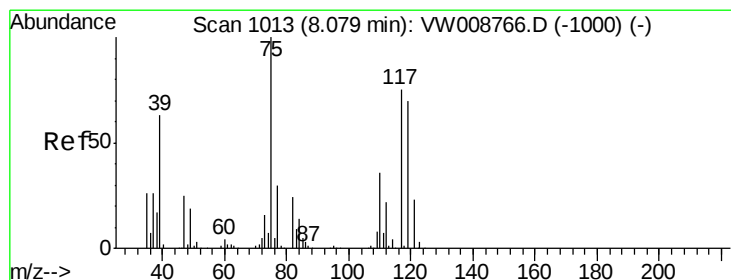
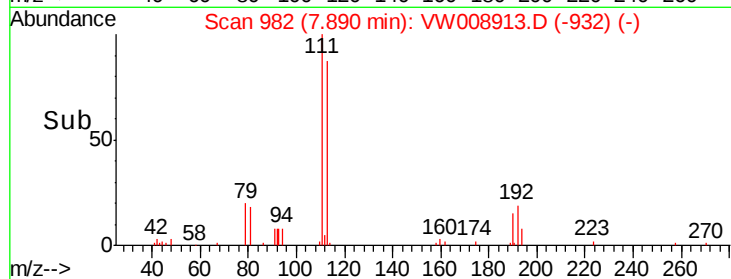
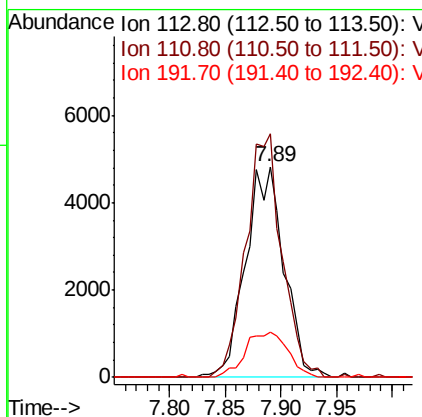
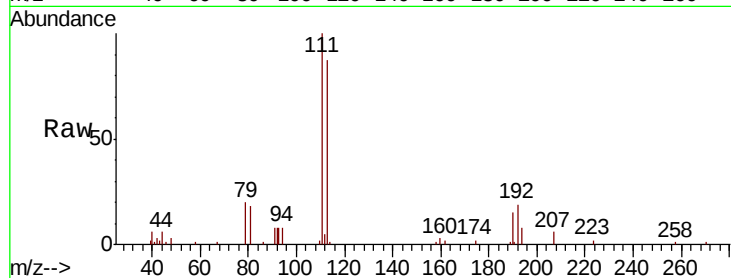




#35
 Dibromofluoromethane
 Concen: 53.914 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VW008913.D
 Acq: 01 Mar 2019 04:29

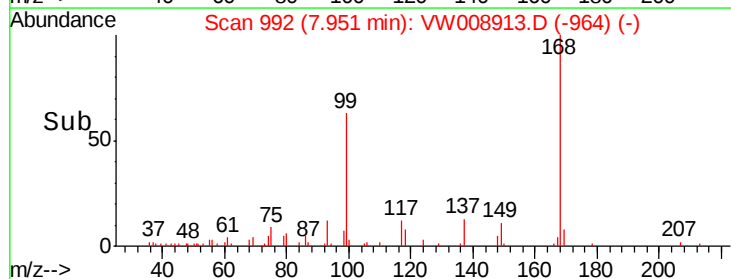
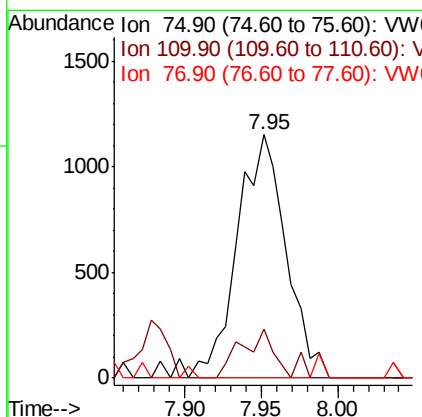
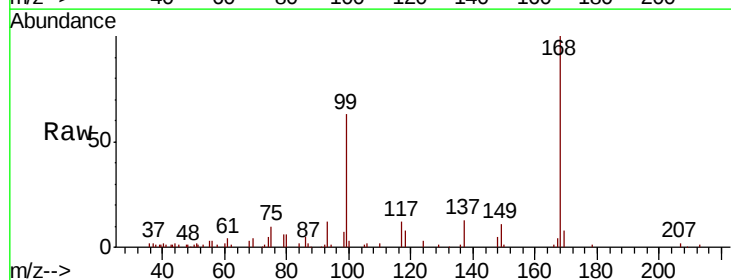
Instrument :
 MSVOA_W
 ClientSampleId :
 200031

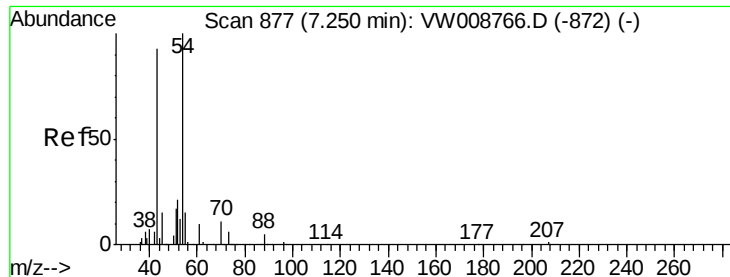
Tot Ion:113 Resp: 11624
 Ion Ratio Lower Upper
 113 100
 111 108.1 81.9 122.9
 192 23.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 7.301 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW008913.D
 Acq: 01 Mar 2019 04:29

Tgt Ion: 75 Resp: 2552
 Ion Ratio Lower Upper
 75 100
 110 13.4 17.5 52.6#
 77 0.0 24.5 36.7#

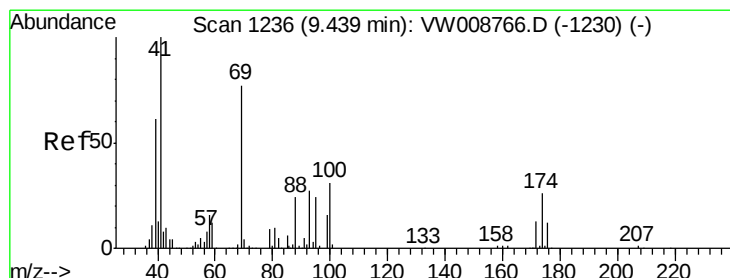
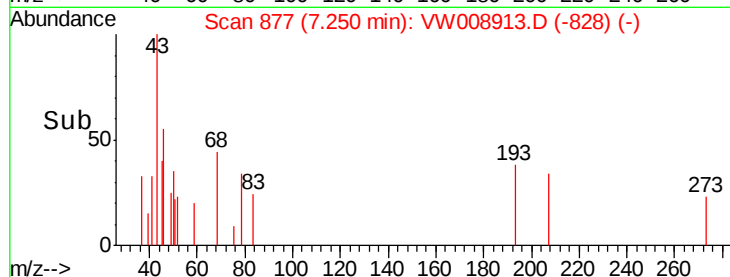
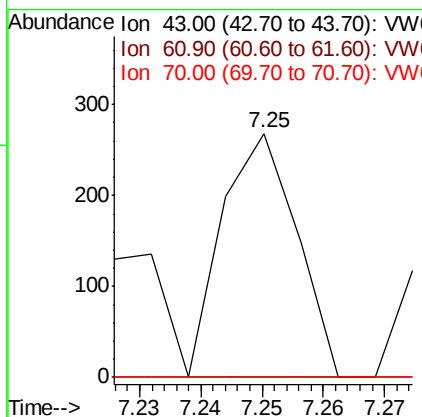
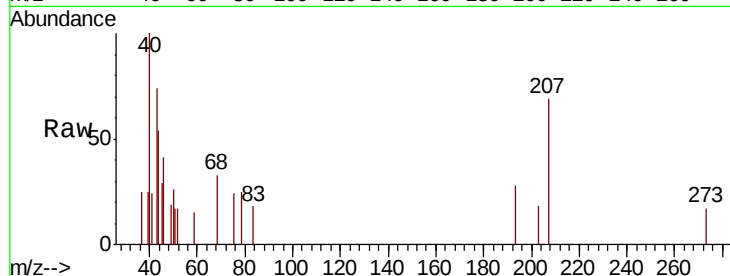




#37
Ethyl Acetate
Concen: 1.384 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW008913.D
Acq: 01 Mar 2019 04:29

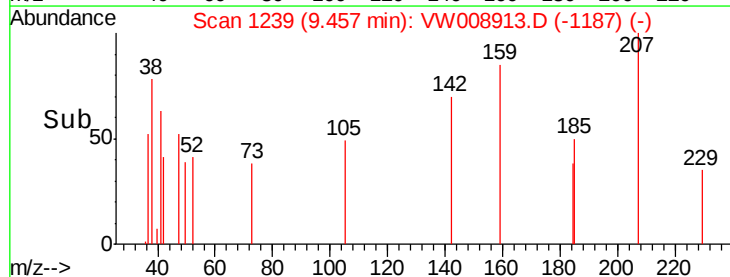
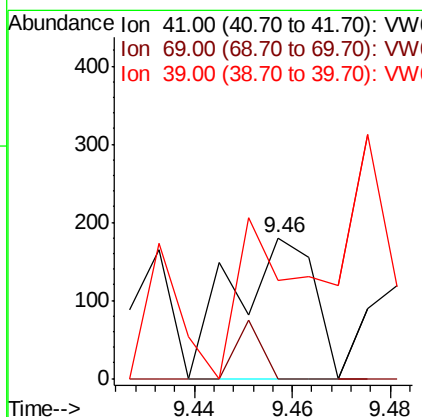
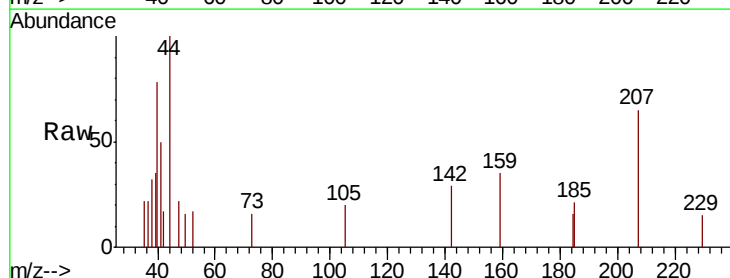
Instrument :
MSVOA_W
ClientSampleId :
200031

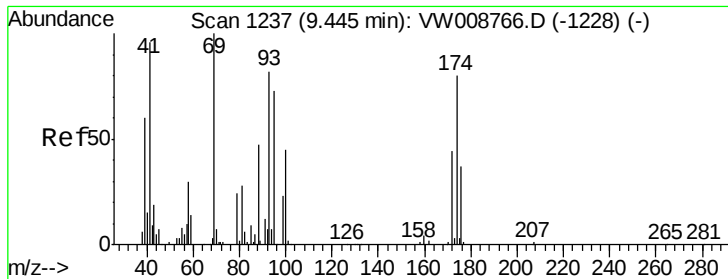
Tot Ion: 43 Resp: 225
Ion Ratio Lower Upper
43 100
61 0.0 9.8 14.8#
70 0.0 8.4 12.6#



#48
Methyl methacrylate
Concen: 1.332 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.02 min
Lab File: VW008913.D
Acq: 01 Mar 2019 04:29

Tgt Ion: 41 Resp: 207
Ion Ratio Lower Upper
41 100
69 13.0 63.6 95.4#
39 0.0 52.1 78.1#





#49

1,4-Dioxane

Concen: 24.277 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :
MSVOA_W
ClientSampled :
200031

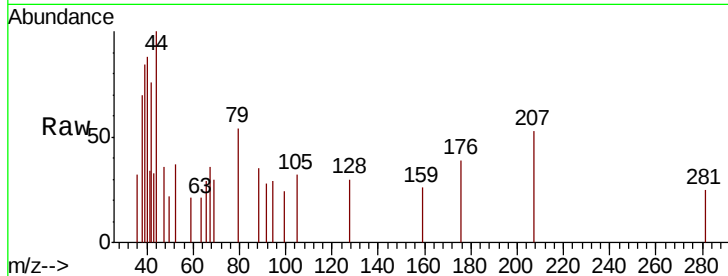
Tot Ion: 88 Resp: 51

Ion Ratio Lower Upper

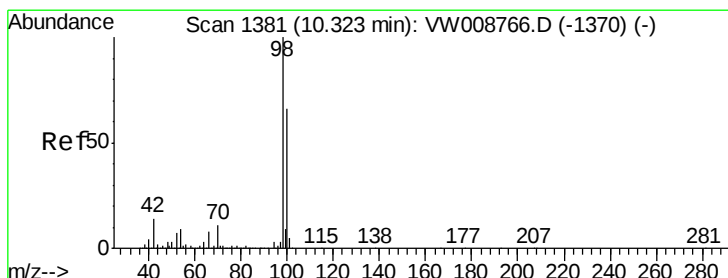
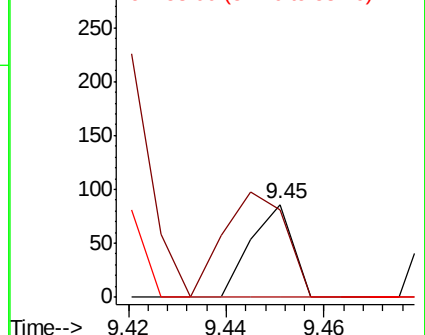
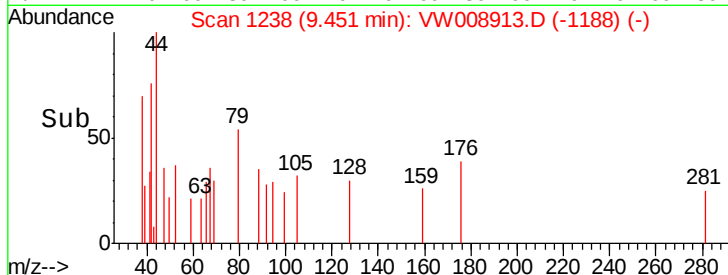
88 100

43 168.6 29.0 43.4#

58 0.0 52.0 78.0#



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 52.709 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008913.D

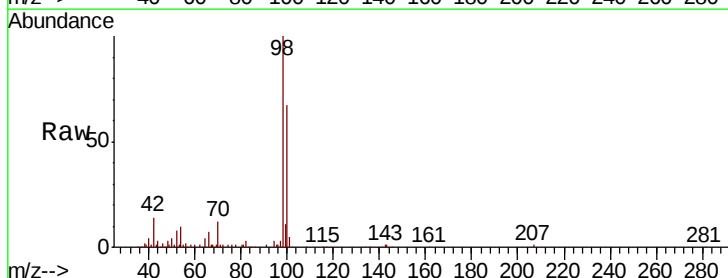
Acq: 01 Mar 2019 04:29

Tgt Ion: 98 Resp: 43869

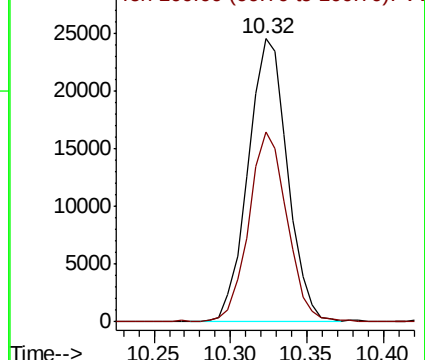
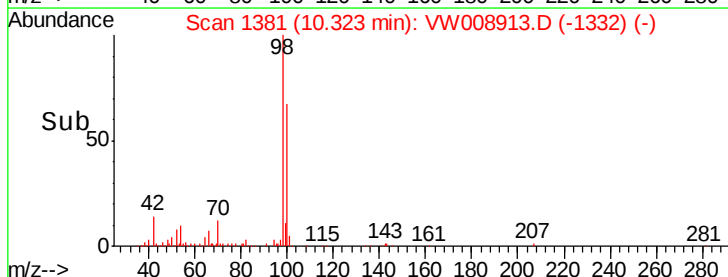
Ion Ratio Lower Upper

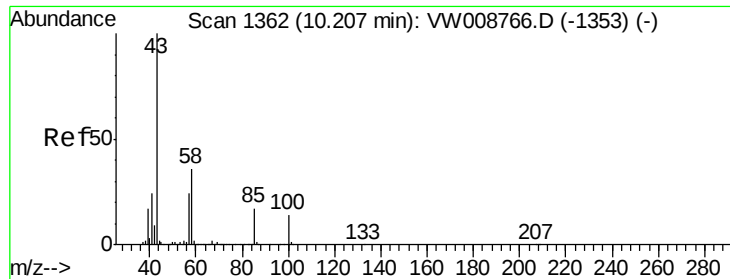
98 100

100 65.1 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.111 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampleId :

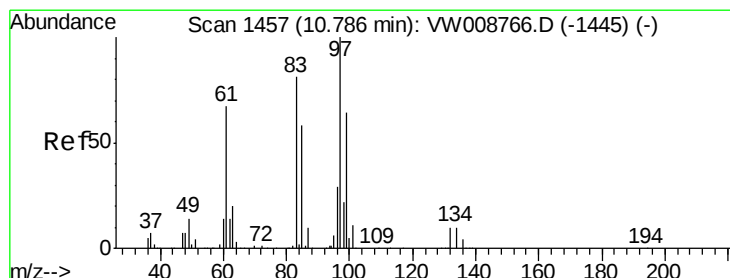
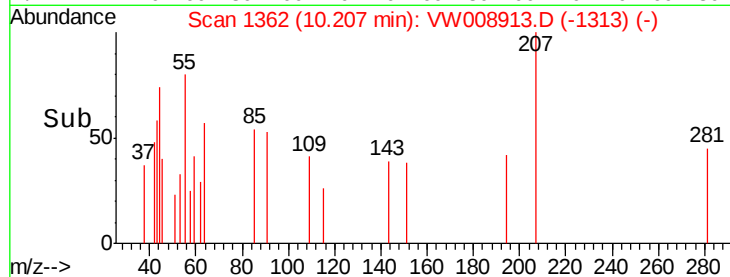
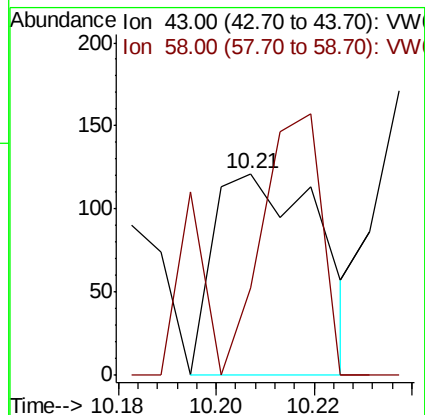
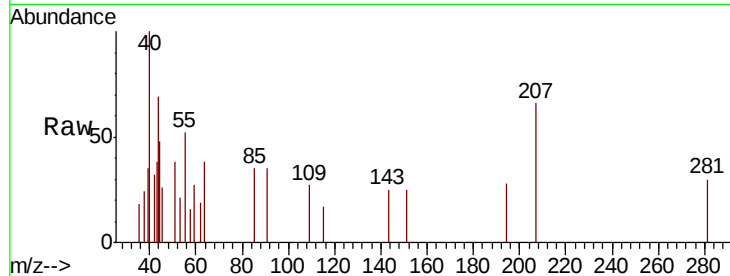
200031

Tot Ion: 43 Resp: 183

Ion Ratio Lower Upper

43 100

58 71.0 29.1 43.7#



#55

1,1,2-Trichloroethane

Concen: 4.665 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Tgt Ion: 97 Resp: 830

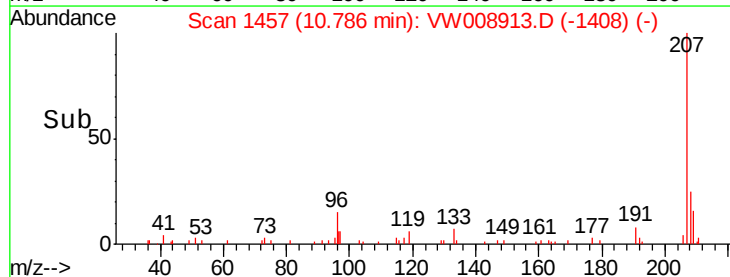
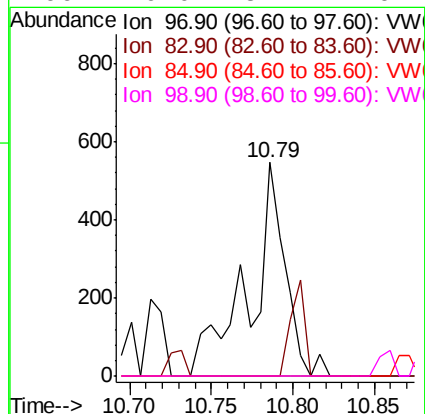
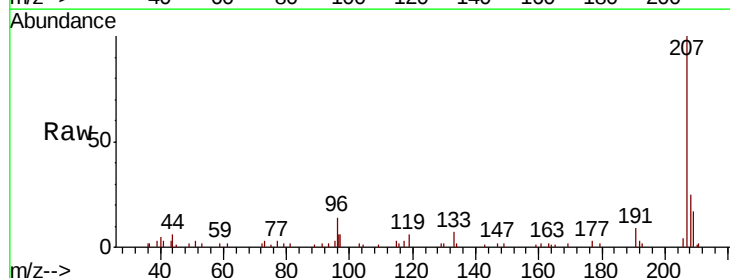
Ion Ratio Lower Upper

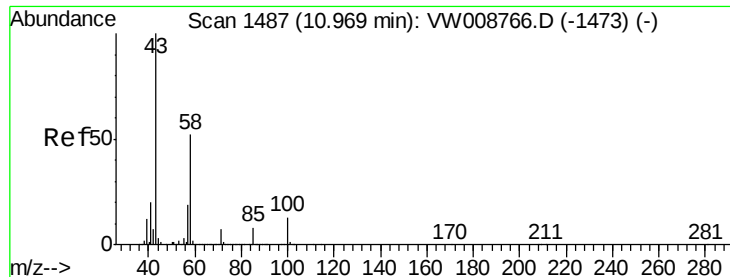
97 100

83 0.0 65.0 97.6#

85 0.0 46.0 69.0#

99 0.0 51.1 76.7#





#59

2-Hexanone

Concen: 1.535 ug/l

RT: 10.95 min Scan# 1484

Delta R.T. -0.02 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampled :

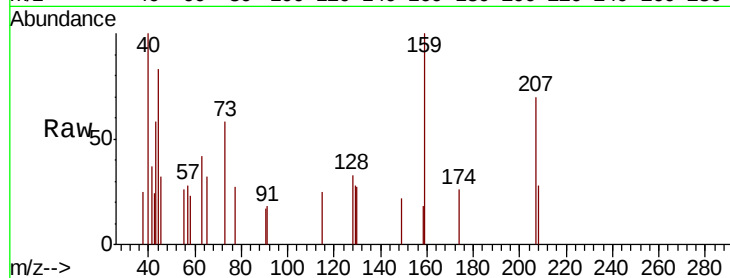
200031

Tot Ion: 43 Resp: 180

Ion Ratio Lower Upper

43 100

58 27.2 25.3 75.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.95

150

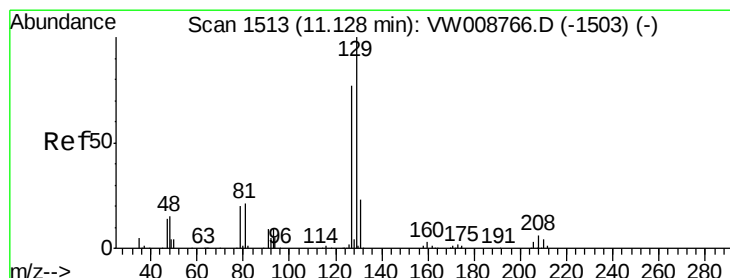
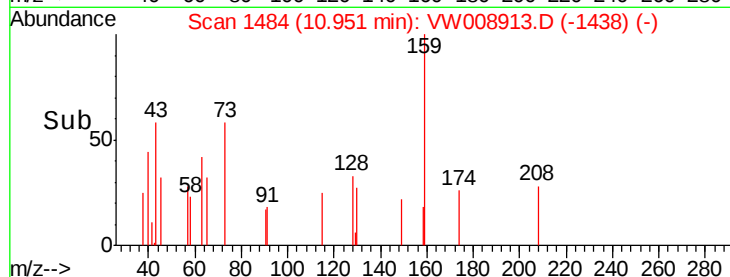
100

50

0

10.94 10.96 10.98

Time-->



#60

Dibromochloromethane

Concen: 2.244 ug/l

RT: 11.18 min Scan# 1521

Delta R.T. 0.05 min

Lab File: VW008913.D

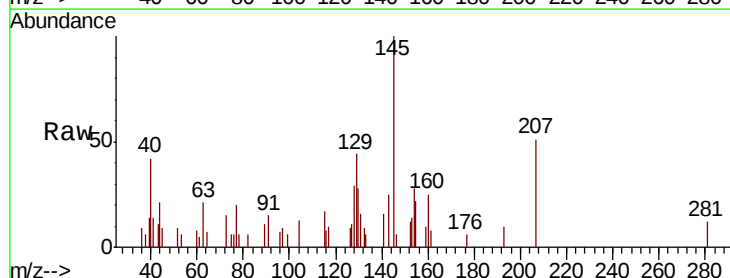
Acq: 01 Mar 2019 04:29

Tgt Ion: 129 Resp: 487

Ion Ratio Lower Upper

129 100

127 53.8 39.0 116.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.18

400

300

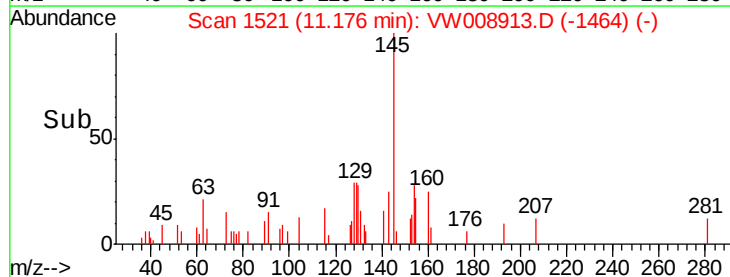
200

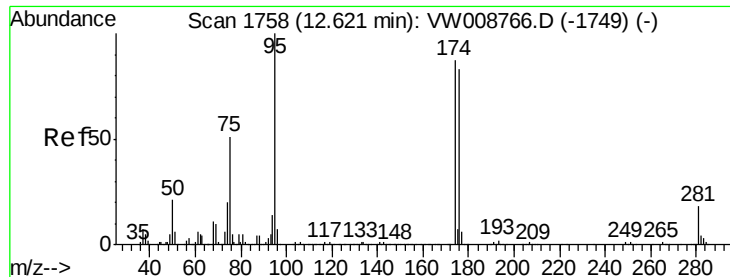
100

0

11.16 11.18 11.20 11.22

Time-->





#62

4-Bromofluorobenzene

Concen: 46.895 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampleId :

200031

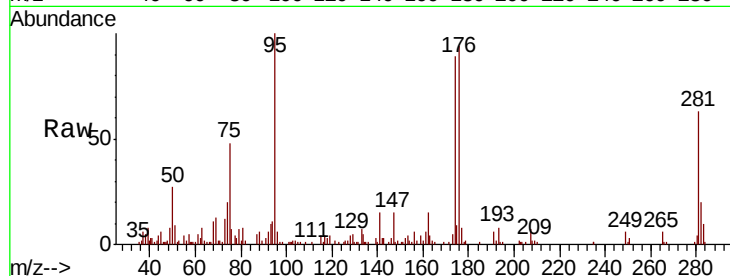
Tot Ion: 95 Resp: 15282

Ion Ratio Lower Upper

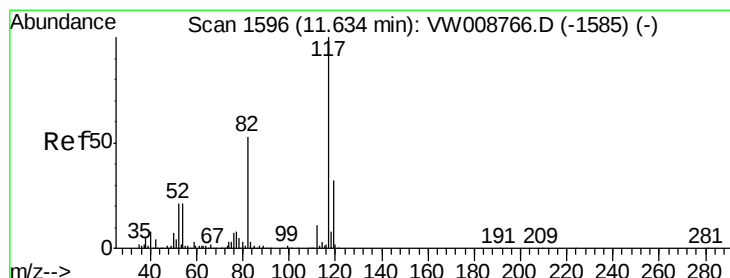
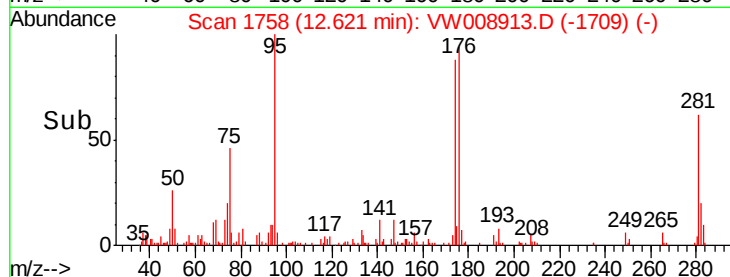
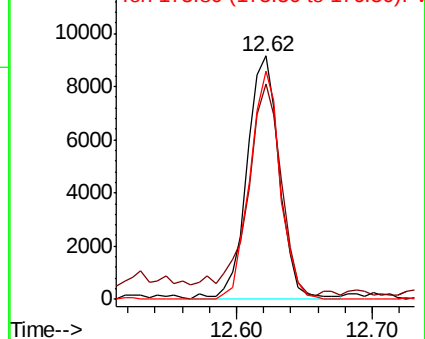
95 100

174 93.1 0.0 169.2

176 88.0 0.0 163.6



Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

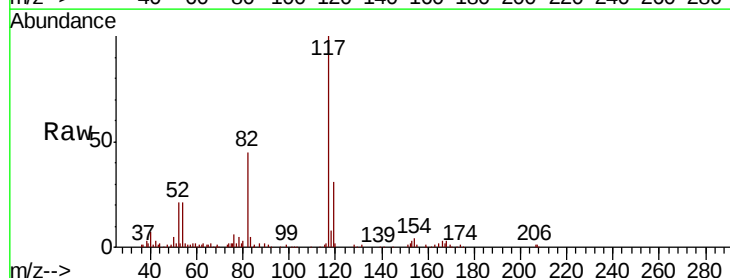
Tgt Ion: 117 Resp: 35472

Ion Ratio Lower Upper

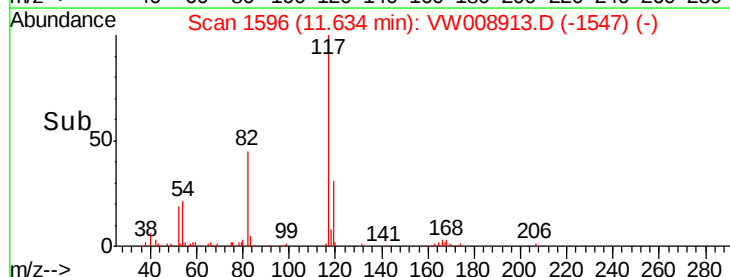
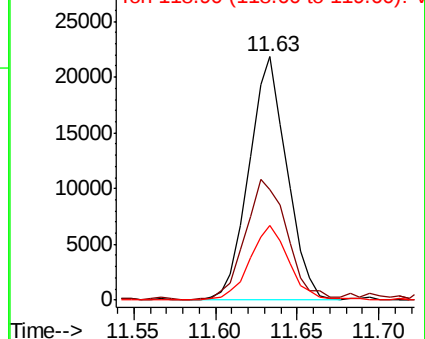
117 100

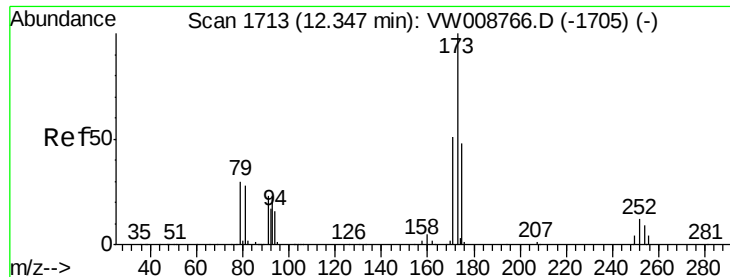
82 45.0 42.2 63.4

119 30.6 25.9 38.9



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





#71

Bromoform

Concen: 1.202 ug/l

RT: 12.41 min Scan# 1724

Delta R.T. 0.07 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampleId :

200031

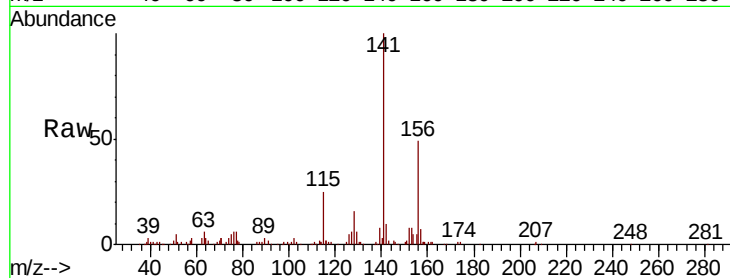
Tot Ion:173 Resp: 163

Ion Ratio Lower Upper

173 100

175 17.8 24.2 72.6#

254 0.0 0.2 0.4#

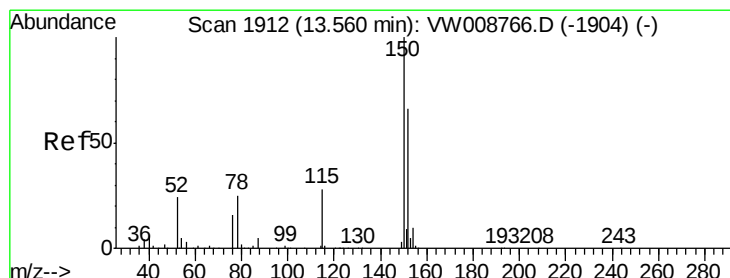
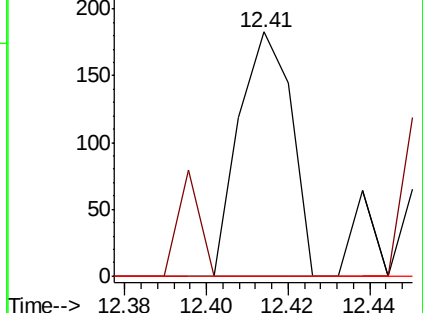
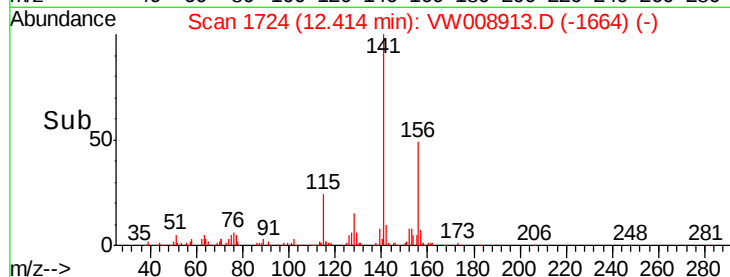


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

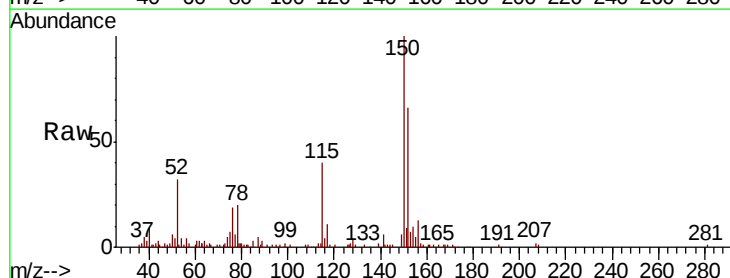
Tgt Ion:152 Resp: 15460

Ion Ratio Lower Upper

152 100

115 54.9 28.6 85.8

150 148.9 0.0 348.0

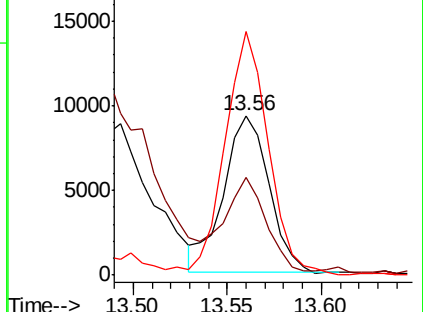
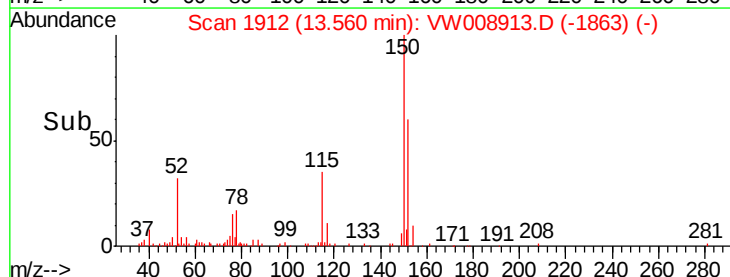


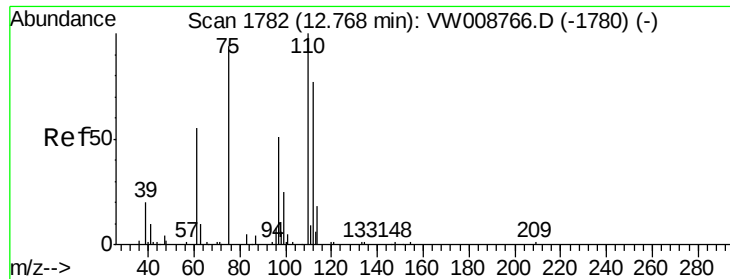
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->





#76

1,2,3-Trichloropropane

Concen: 46.865 ug/l

RT: 12.88 min Scan# 1800

Delta R.T. 0.11 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampled :

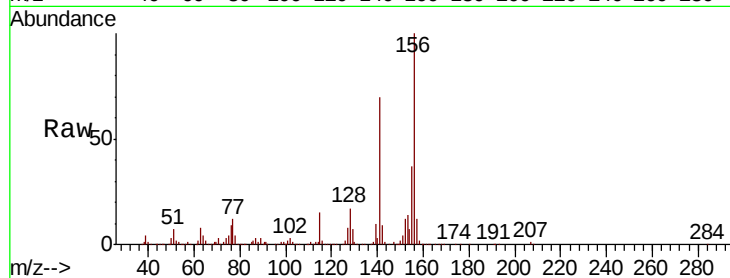
200031

Tot Ion: 75 Resp: 5982

Ion Ratio Lower Upper

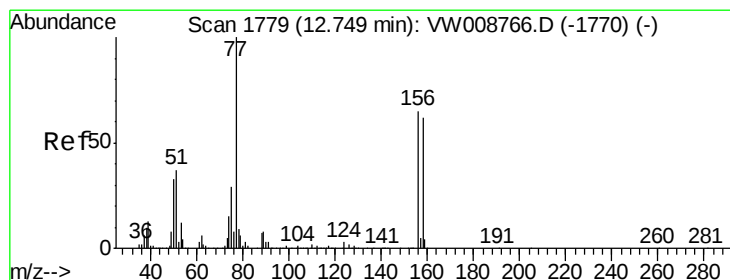
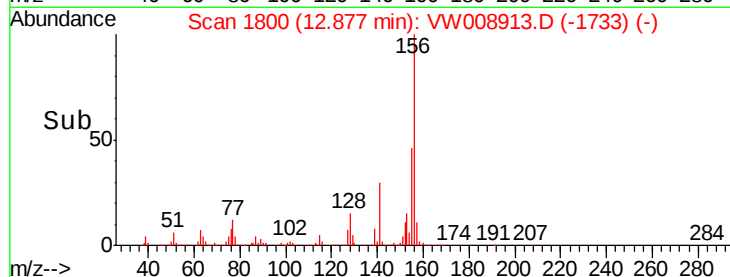
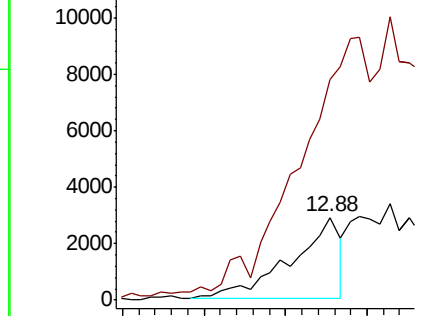
75 100

77 459.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#77

Bromobenzene

Concen: 2486.968 ug/l

RT: 12.92 min Scan# 1807

Delta R.T. 0.17 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

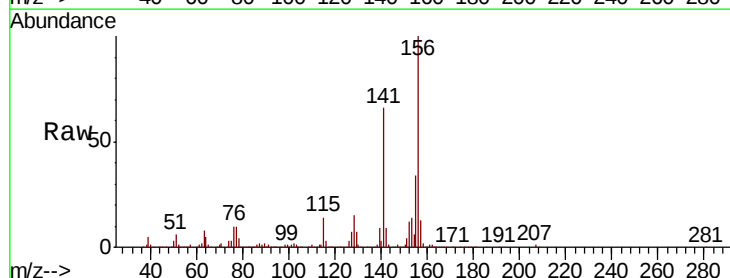
Tgt Ion: 156 Resp: 622869

Ion Ratio Lower Upper

156 100

77 0.0 89.1 267.4#

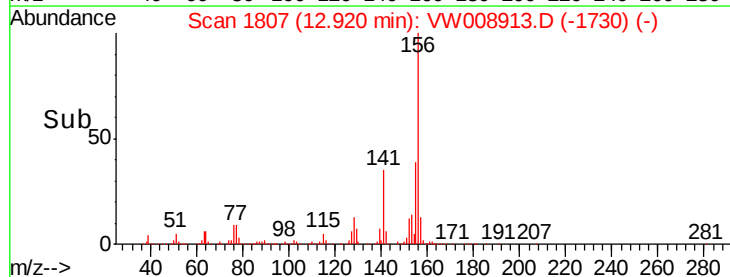
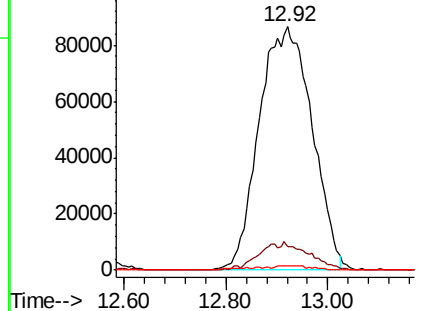
158 0.0 49.2 147.6#

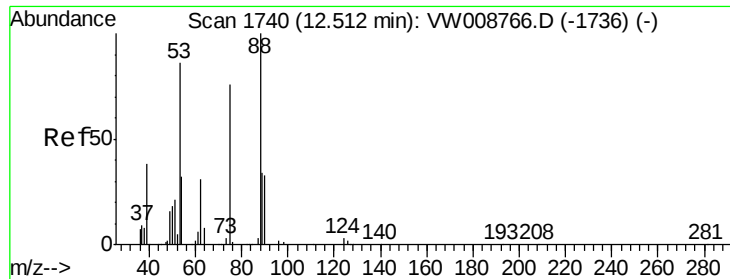


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V





#81

trans-1,4-Dichloro-2-butene

Concen: 23.693 ug/l

RT: 12.52 min Scan# 1742

Delta R.T. 0.01 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

Instrument :

MSVOA_W

ClientSampled :

200031

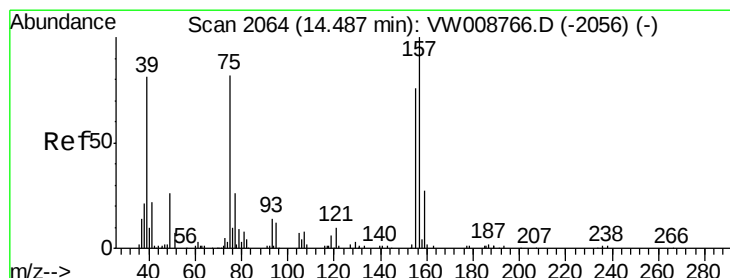
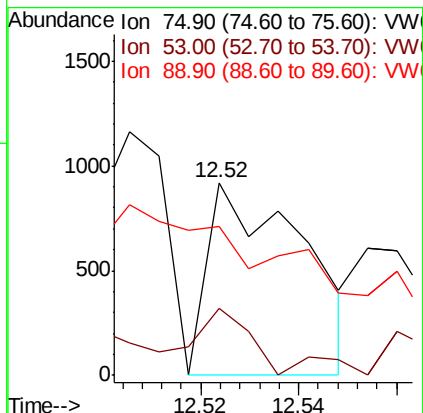
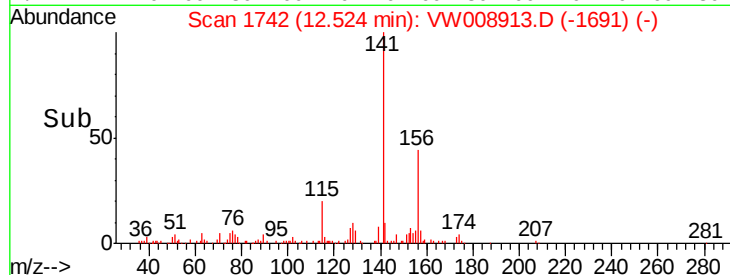
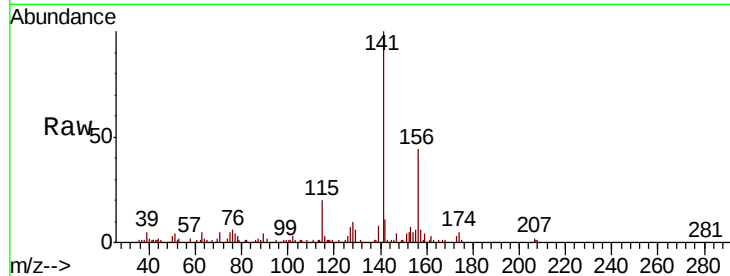
Tot Ion: 75 Resp: 1244

Ion Ratio Lower Upper

75 100

53 11.0 88.2 132.2#

89 0.0 39.5 59.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 180.519 ug/l

RT: 14.56 min Scan# 2076

Delta R.T. 0.07 min

Lab File: VW008913.D

Acq: 01 Mar 2019 04:29

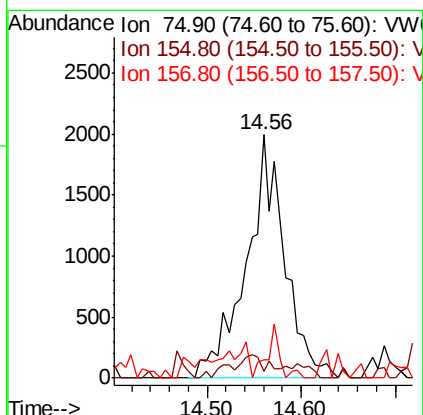
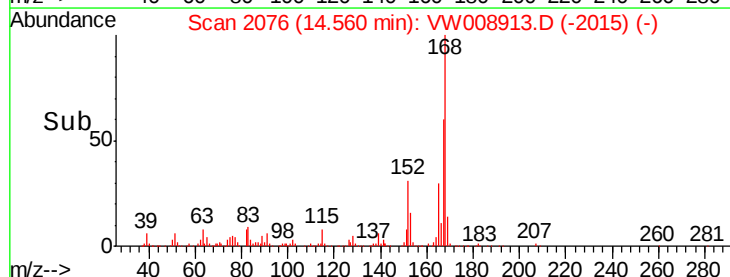
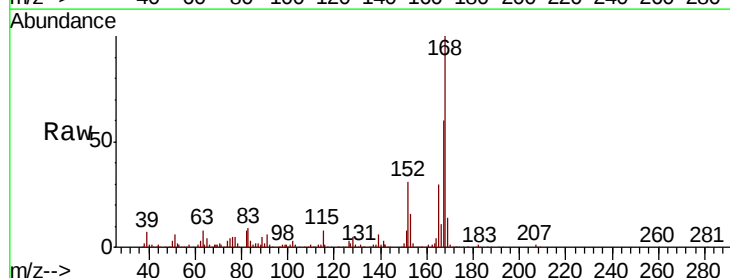
Tgt Ion: 75 Resp: 5655

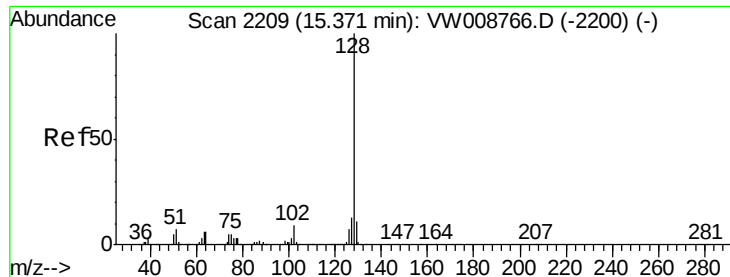
Ion Ratio Lower Upper

75 100

155 0.0 41.8 125.4#

157 6.5 56.6 169.9#

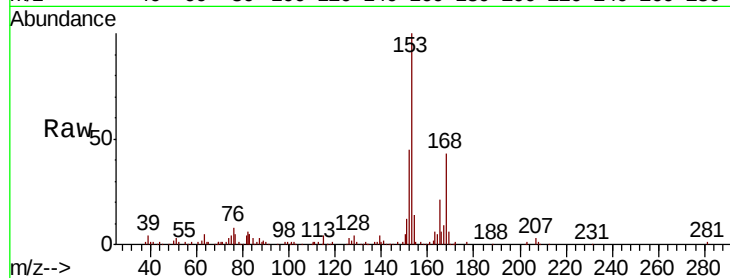




#95
Naphthalene
Concen: 3.391 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW008913.D
Acq: 01 Mar 2019 04:29

Instrument :
MSVOA_W
ClientSampleId :
200031

Tot Ion:128 Resp: 1926
Ion Ratio Lower Upper
128 100
127 61.7 10.8 16.2#
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

