

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022819\
 Data File : VW008887.D
 Acq On : 28 Feb 2019 15:09
 Operator : SY/VA
 Sample : K1650-08
 Misc : 5.09G/5ML/MSVOA W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 B-4(4-5)

Quant Time: Mar 01 06:00:49 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	345618	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	539666	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	377304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	103313	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	190629	58.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.62%	
35) Dibromofluoromethane	7.88	113	166106	51.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.52%	
50) Toluene-d8	10.32	98	592415	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
62) 4-Bromofluorobenzene	12.62	95	139765	28.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	57.08%	

Target Compounds

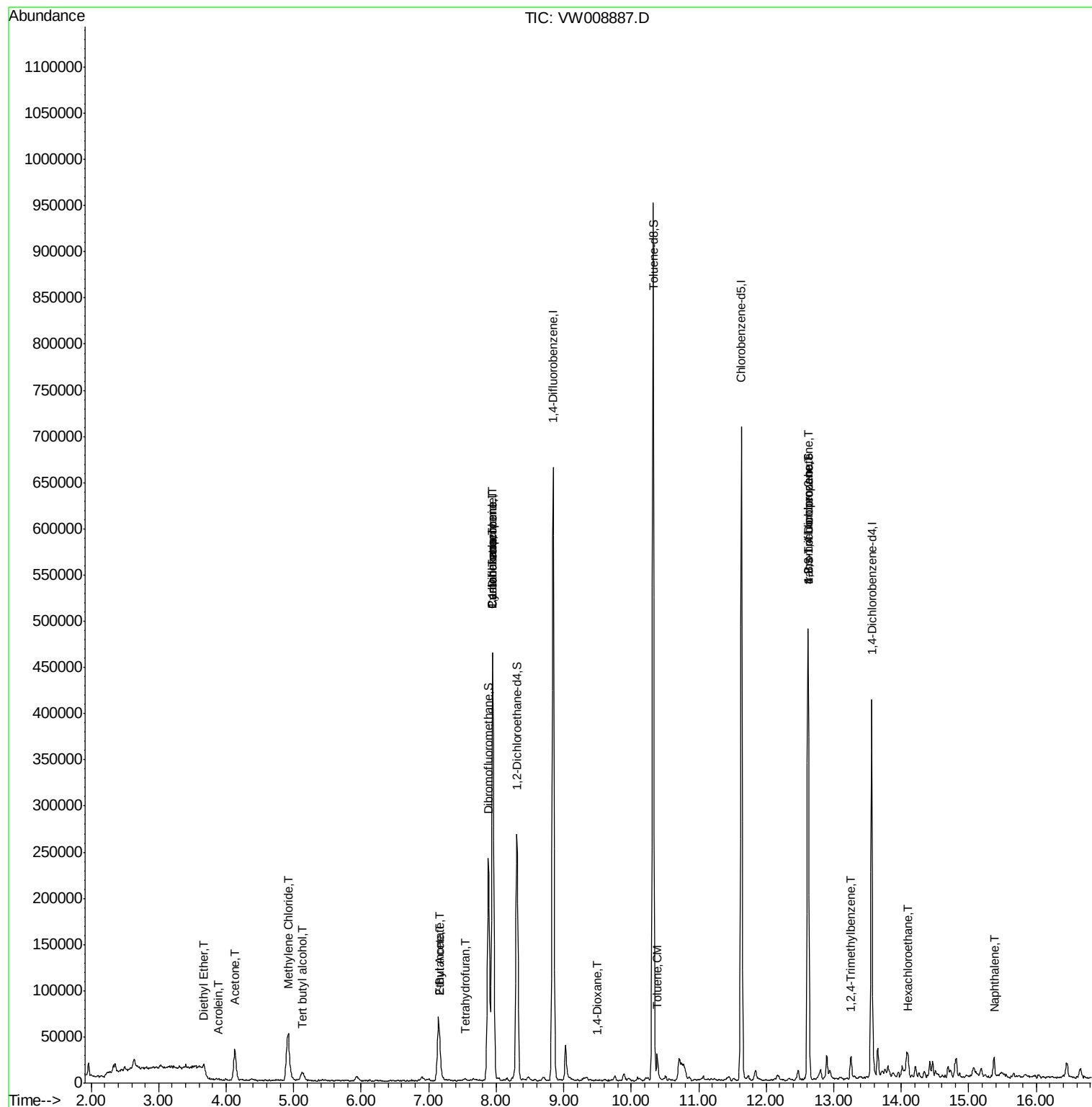
						Qvalue
8) Diethyl Ether	3.68	74	2631	1.473	ug/l	90
11) Tert butyl alcohol	5.13	59	9192	31.852	ug/l #	72
13) Acrolein	3.88	56	97	20.073	ug/l #	1
16) Acetone	4.13	43	57498	76.524	ug/l	99
20) Methylene Chloride	4.92	84	37129	5.482	ug/l	99
25) 2-Butanone	7.17	43	8710	8.292	ug/l #	87
29) Tetrahydrofuran	7.54	42	2047	3.058	ug/l	92
31) Cyclohexane	7.95	56	8699	1.423	ug/l #	27
36) 1,1-Dichloropropene	7.95	75	27412	5.218	ug/l #	51
37) Ethyl Acetate	7.17	43	8710	3.565	ug/l #	74
38) Carbon Tetrachloride	7.95	117	33099	5.974	ug/l #	17
49) 1,4-Dioxane	9.50	88	93	2.946	ug/l #	1
52) Toluene	10.38	92	10864	1.116	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	74361	87.177	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	74361	211.935	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	13299	2.087	ug/l	95
90) Hexachloroethane	14.11	117	1544	1.344	ug/l #	9
95) Naphthalene	15.38	128	17365	4.575	ug/l	98

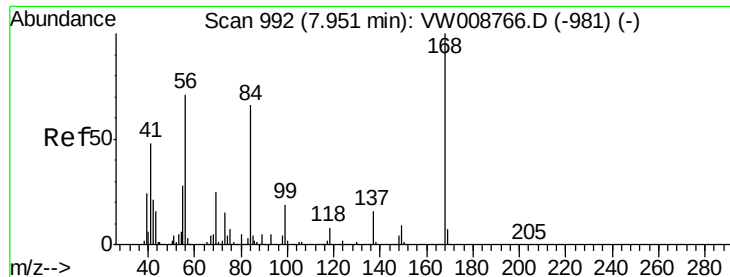
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 22 00:38:32 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampleId :

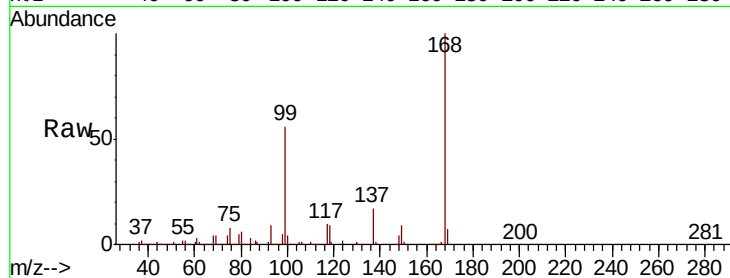
B-4(4-5)

Tot Ion:168 Resp: 345618

Ion Ratio Lower Upper

168 100

99 56.1 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

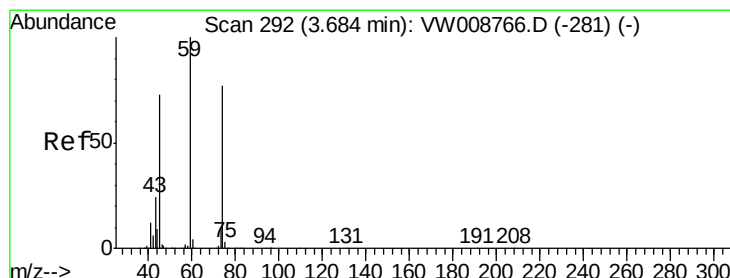
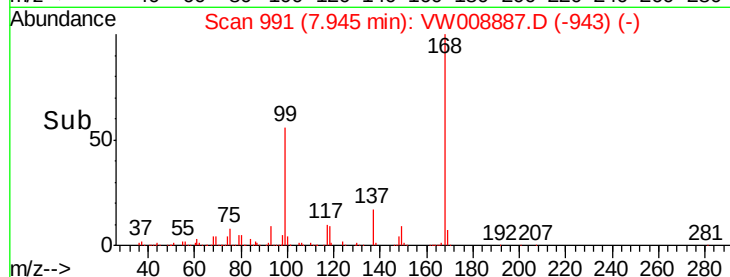
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.473 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW008887.D

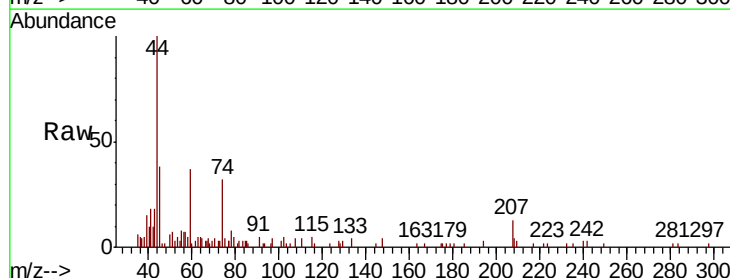
Acq: 28 Feb 2019 15:09

Tgt Ion: 74 Resp: 2631

Ion Ratio Lower Upper

74 100

45 110.5 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

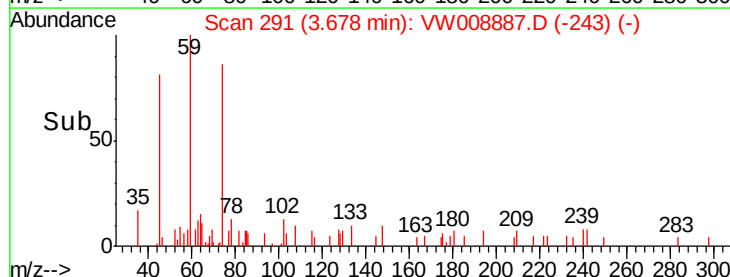
1500

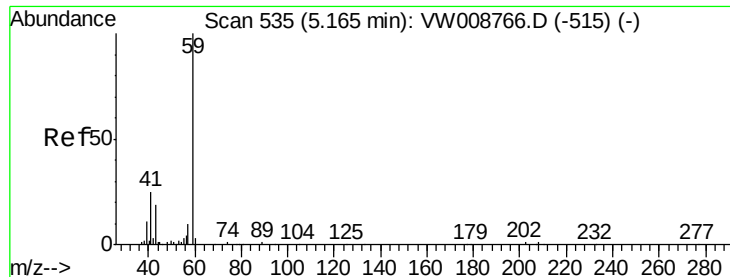
1000

500

0

Time-->



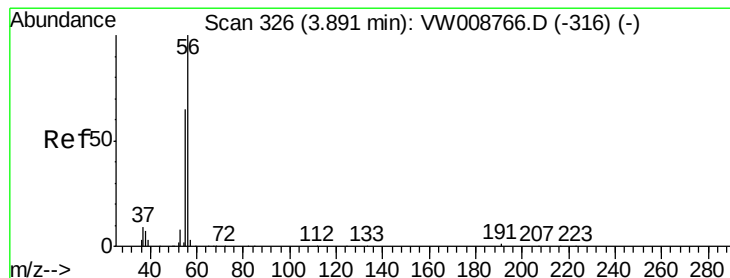
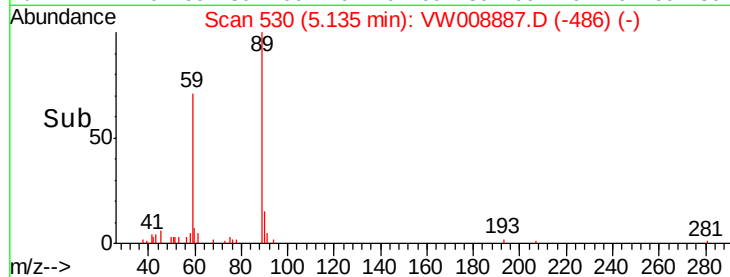
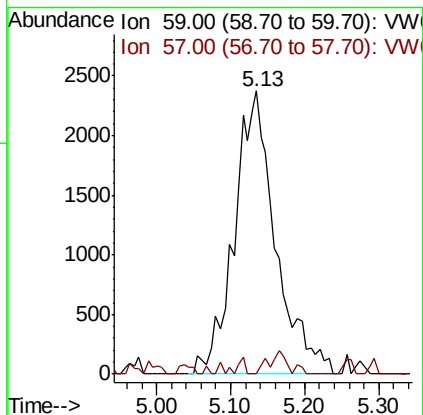
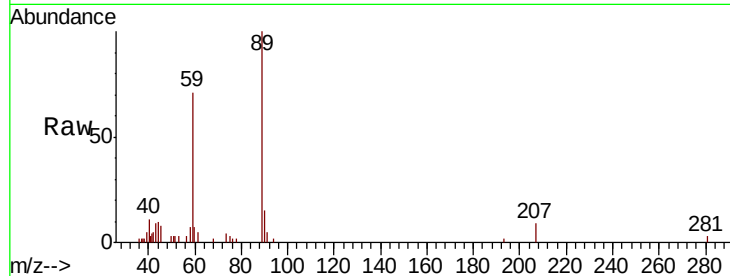


#11

Tert butyl alcohol
 Concen: 31.852 ug/l
 RT: 5.13 min Scan# 530
 Delta R.T. -0.03 min
 Lab File: VW008887.D
 Acq: 28 Feb 2019 15:09

Instrument :
 MSVOA_W
 ClientSampled :
 B-4(4-5)

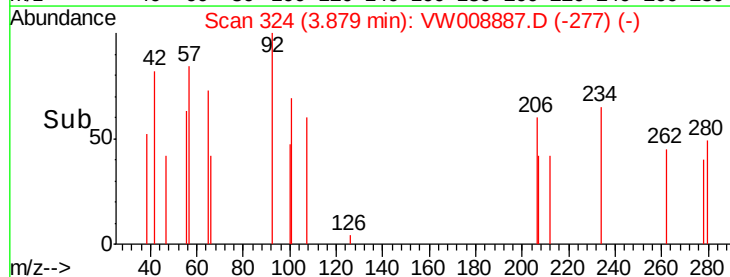
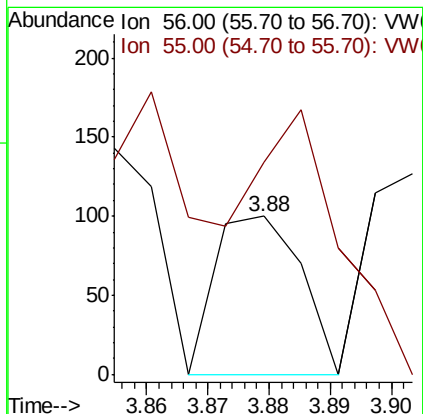
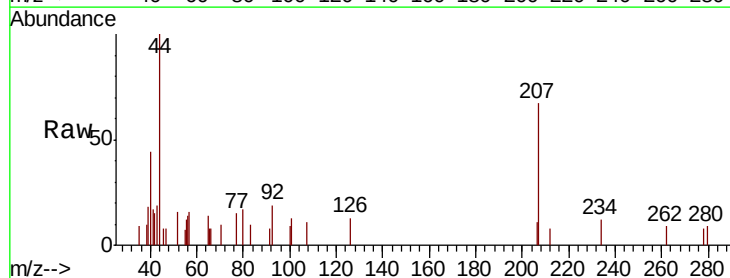
Tot Ion: 59 Resp: 9192
 Ion Ratio Lower Upper
 59 100
 57 0.9 9.3 13.9#

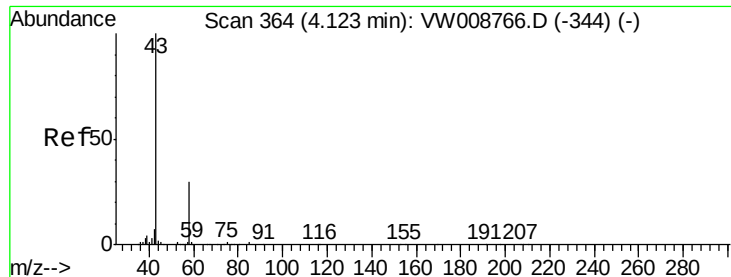


#13

Acrolein
 Concen: 20.073 ug/l
 RT: 3.88 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VW008887.D
 Acq: 28 Feb 2019 15:09

Tgt Ion: 56 Resp: 97
 Ion Ratio Lower Upper
 56 100
 55 163.9 56.9 85.3#





#16

Acetone

Concen: 76.524 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampleId :

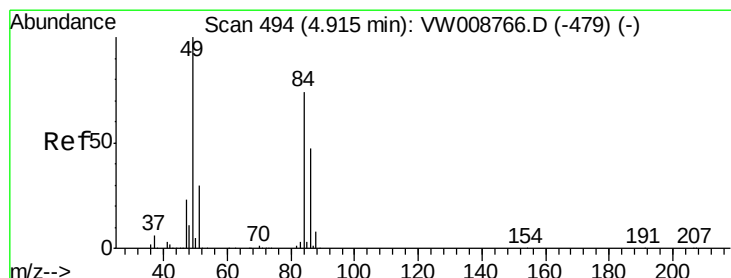
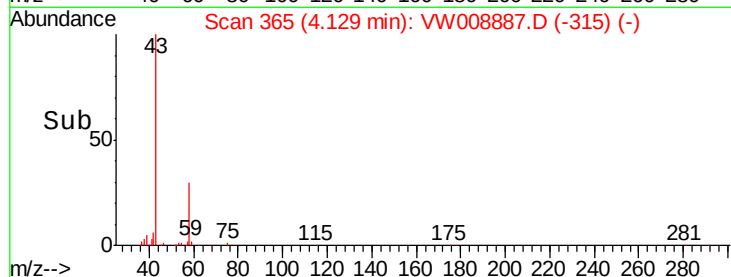
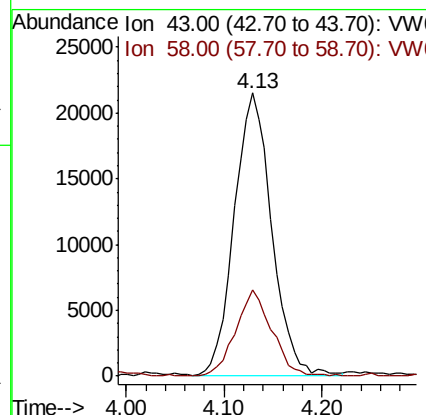
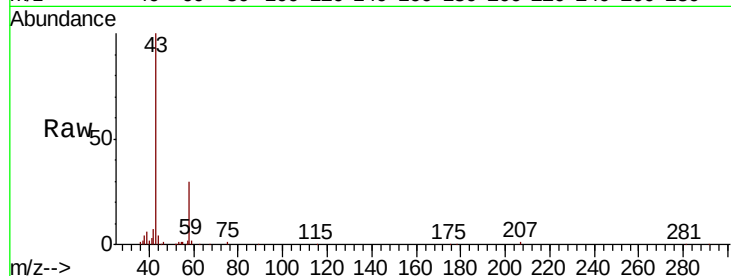
B-4(4-5)

Tot Ion: 43 Resp: 57498

Ion Ratio Lower Upper

43 100

58 30.3 23.8 35.6



#20

Methylene Chloride

Concen: 5.482 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Tgt Ion: 84 Resp: 37129

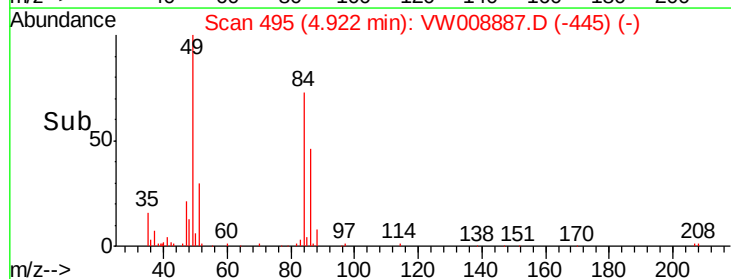
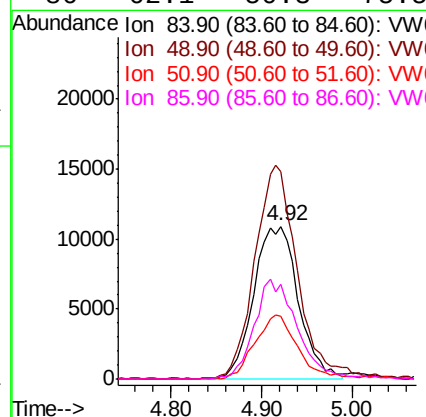
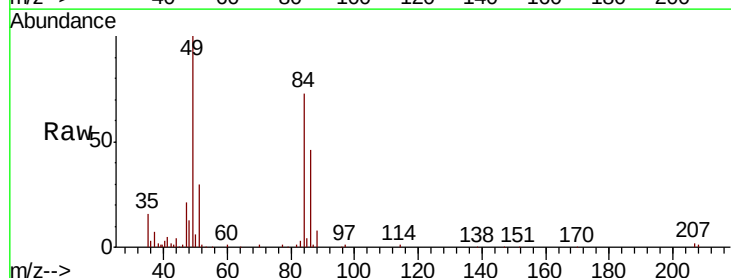
Ion Ratio Lower Upper

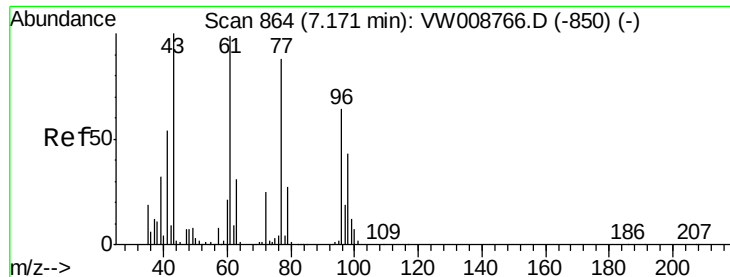
84 100

49 136.1 108.2 162.2

51 41.0 32.7 49.1

86 62.1 50.3 75.5





#25

2-Butanone

Concen: 8.292 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampleId :

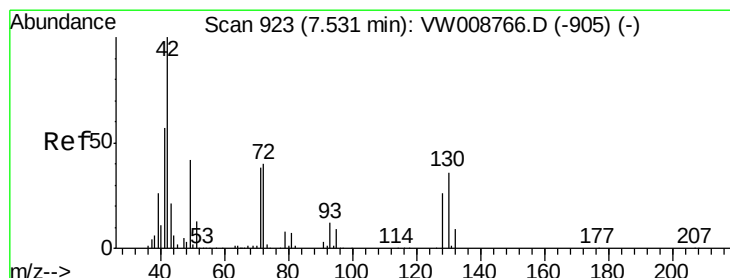
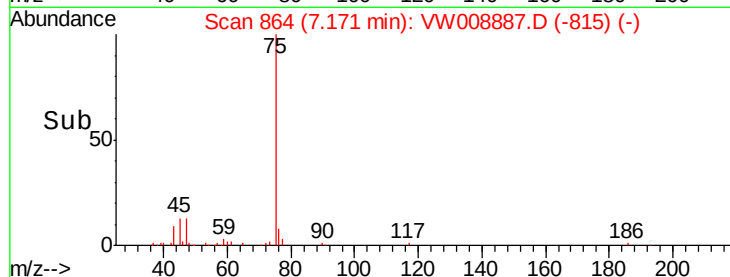
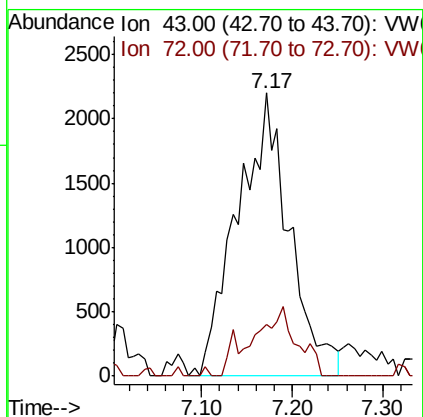
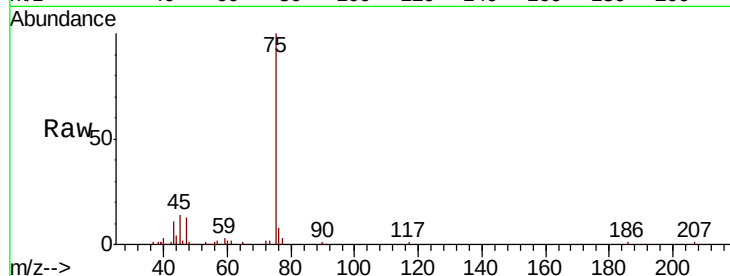
B-4(4-5)

Tot Ion: 43 Resp: 8710

Ion Ratio Lower Upper

43 100

72 18.3 19.7 29.5#



#29

Tetrahydrofuran

Concen: 3.058 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

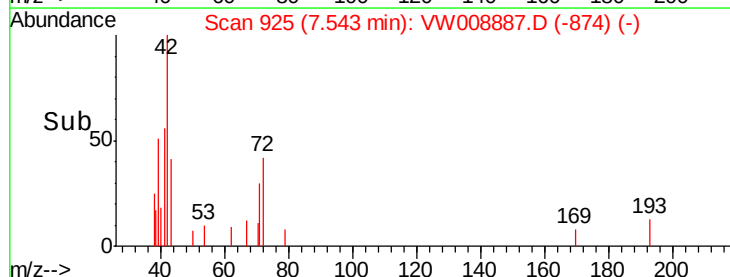
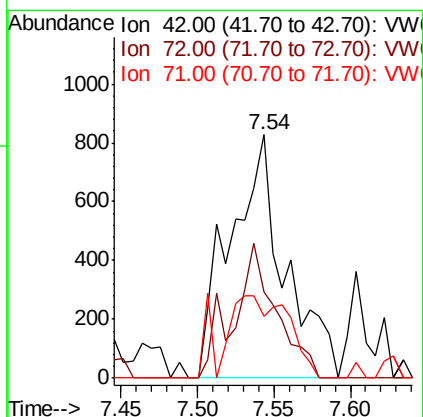
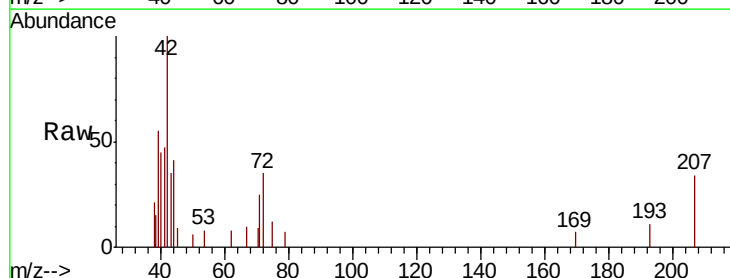
Tgt Ion: 42 Resp: 2047

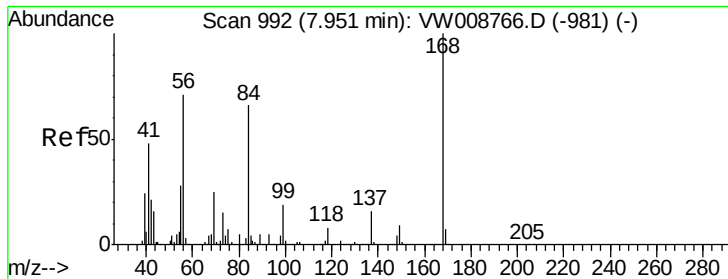
Ion Ratio Lower Upper

42 100

72 35.3 32.7 49.1

71 35.4 31.3 46.9

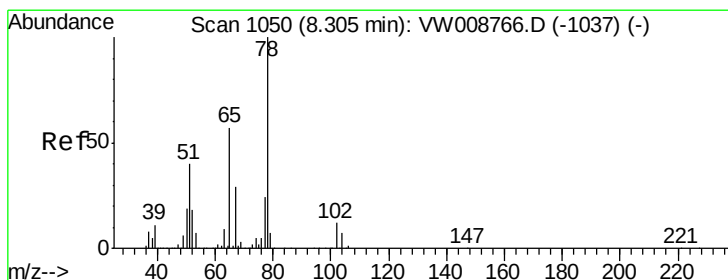
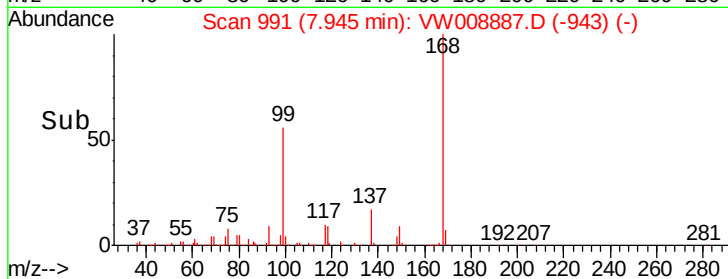
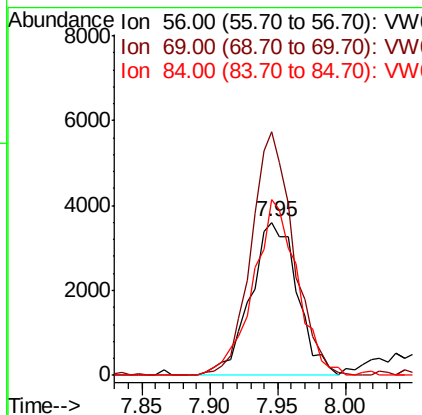
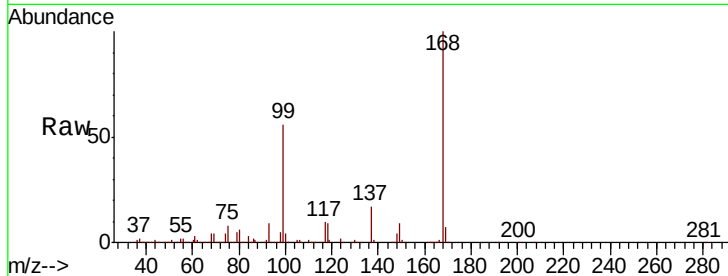




#31
Cyclohexane
Concen: 1.423 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008887.D
Acq: 28 Feb 2019 15:09

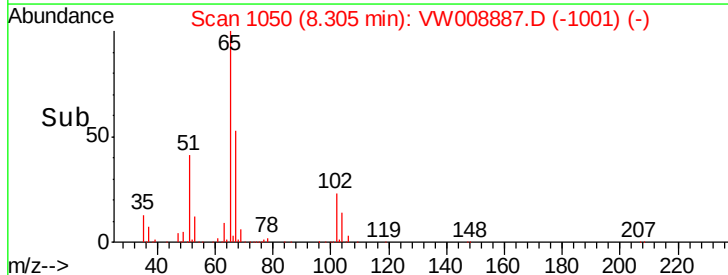
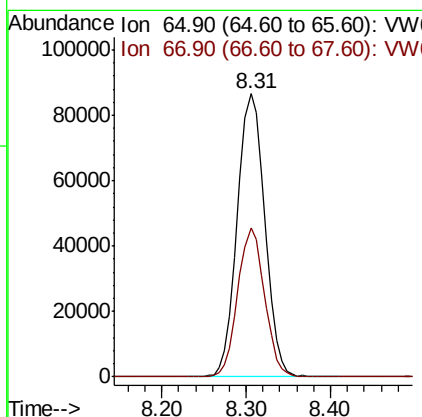
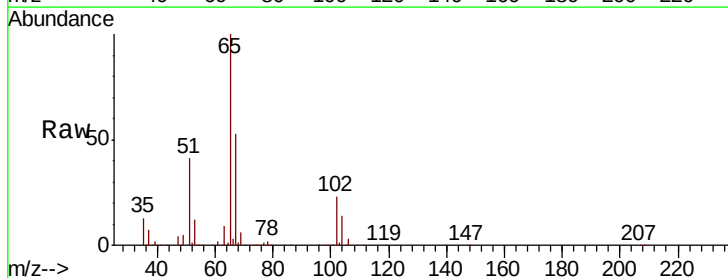
Instrument :
MSVOA_W
ClientSampleId :
B-4(4-5)

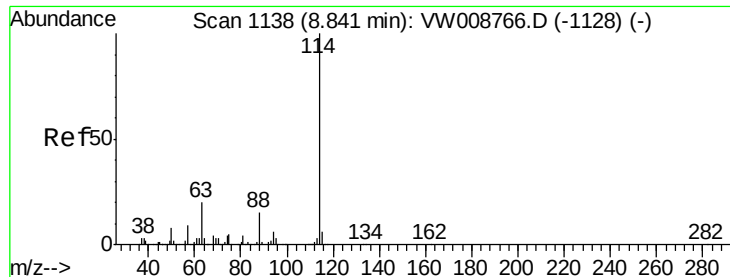
Tot Ion: 56 Resp: 8699
Ion Ratio Lower Upper
56 100
69 159.0 28.2 42.4#
84 111.2 74.1 111.1#



#33
1,2-Dichloroethane-d4
Concen: 58.807 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VW008887.D
Acq: 28 Feb 2019 15:09

Tgt Ion: 65 Resp: 190629
Ion Ratio Lower Upper
65 100
67 51.1 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: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampleId :

B-4(4-5)

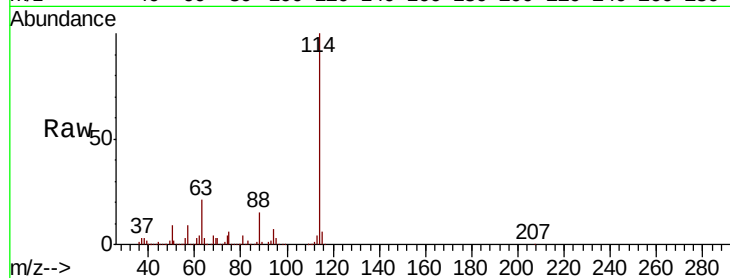
Tot Ion:114 Resp: 539666

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

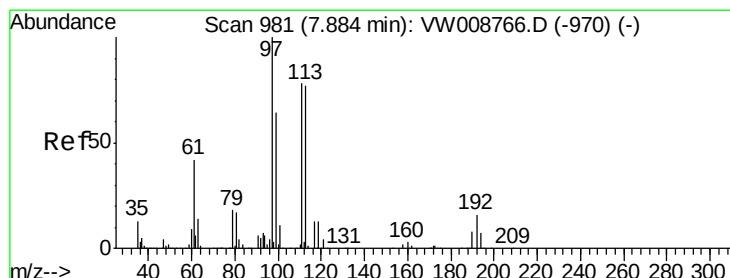
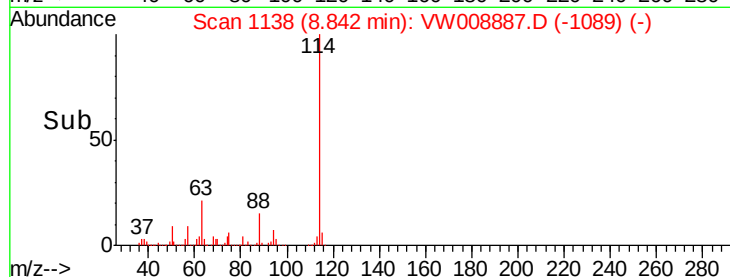
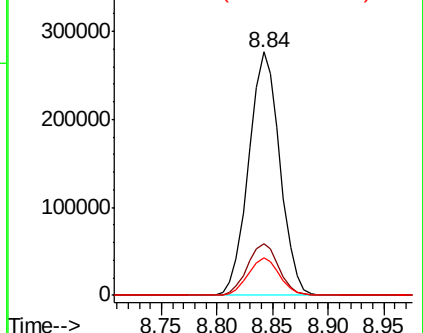
88 15.3 0.0 30.4



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: 51.264 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

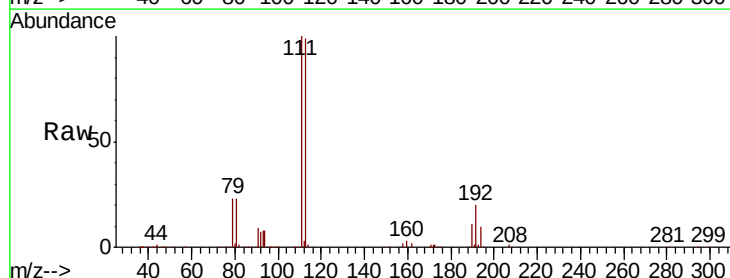
Tgt Ion:113 Resp: 166106

Ion Ratio Lower Upper

113 100

111 101.1 81.9 122.9

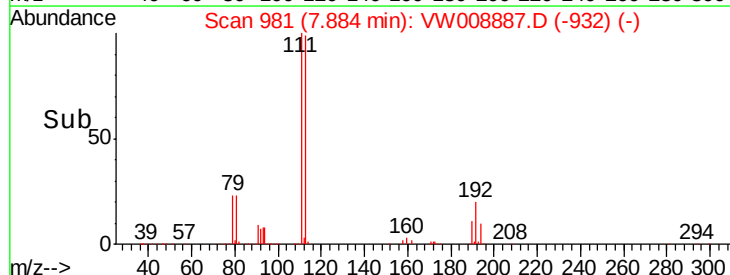
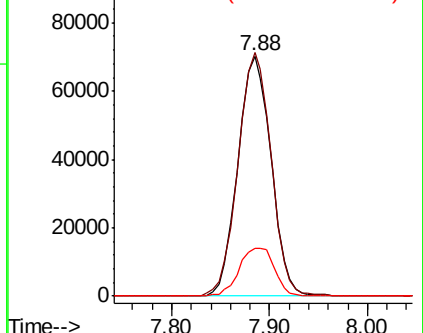
192 21.3 17.1 25.7

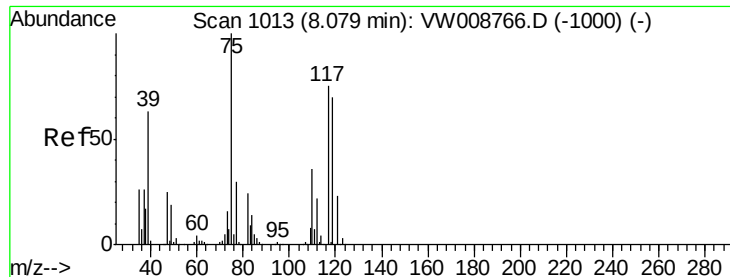


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

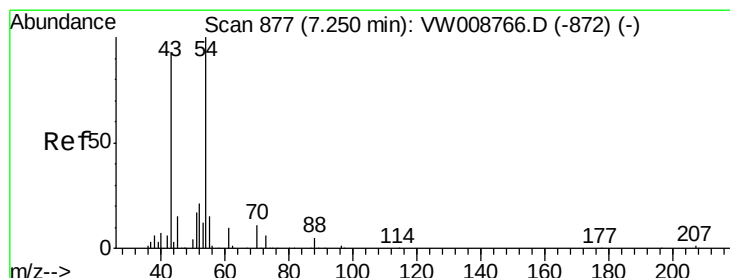
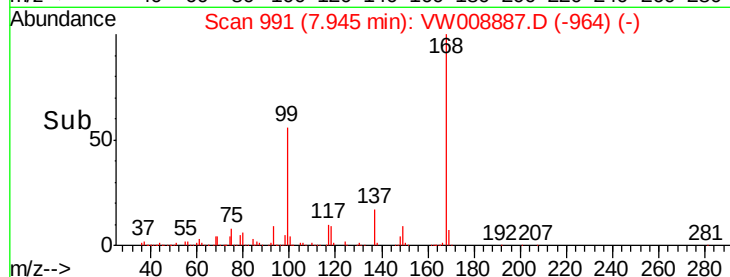
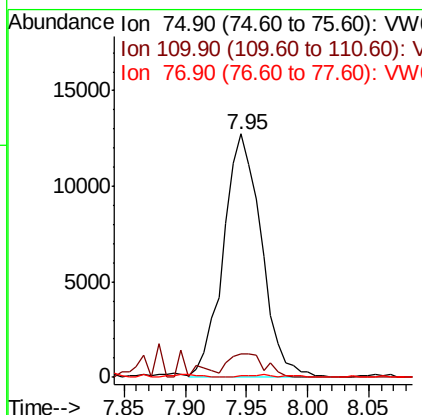
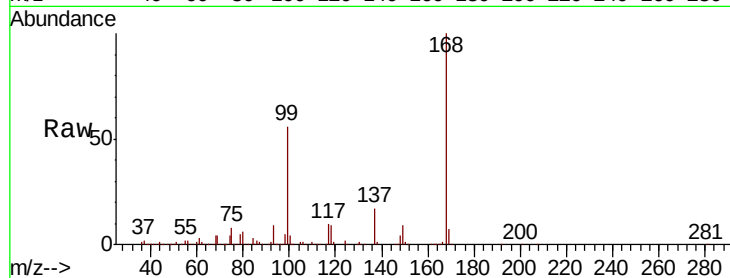




#36
 1,1-Dichloropropene
 Concen: 5.218 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008887.D
 Acq: 28 Feb 2019 15:09

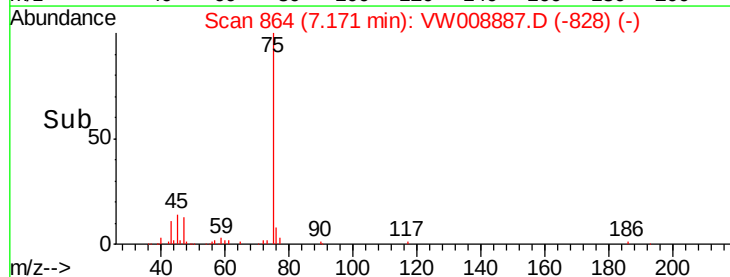
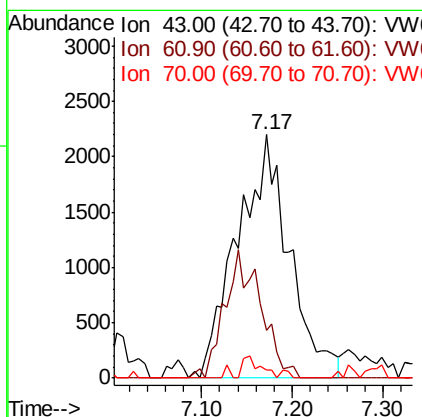
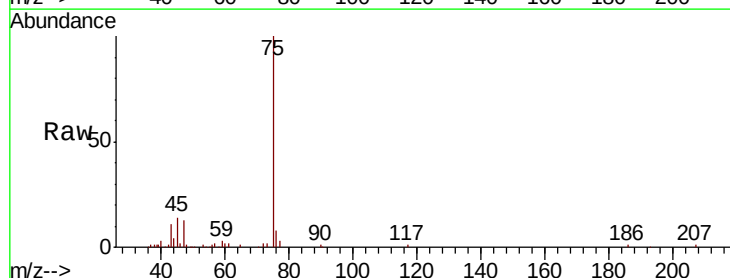
Instrument :
 MSVOA_W
 ClientSampleId :
 B-4(4-5)

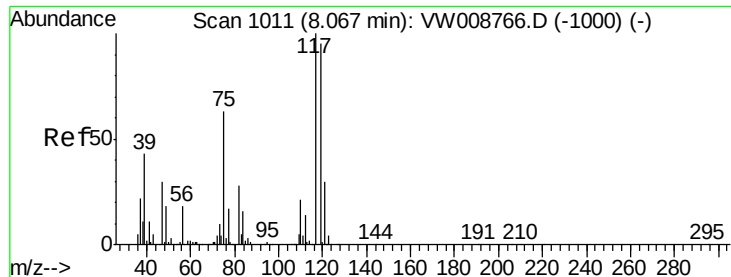
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.5	52.6#
77	0.4	24.5	36.7#



#37
 Ethyl Acetate
 Concen: 3.565 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.08 min
 Lab File: VW008887.D
 Acq: 28 Feb 2019 15:09

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.8	14.8#
70	3.0	8.4	12.6#





#38

Carbon Tetrachloride

Concen: 5.974 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampled :

B-4(4-5)

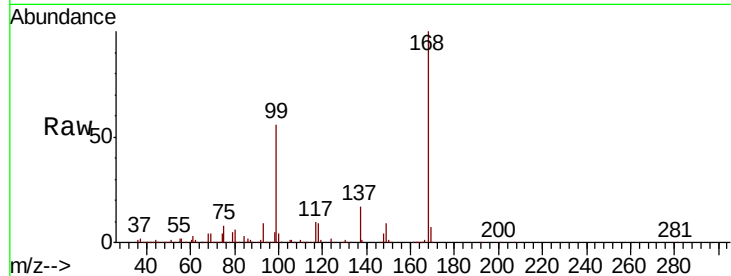
Tot Ion:117 Resp: 33099

Ion Ratio Lower Upper

117 100

119 6.0 76.1 114.1#

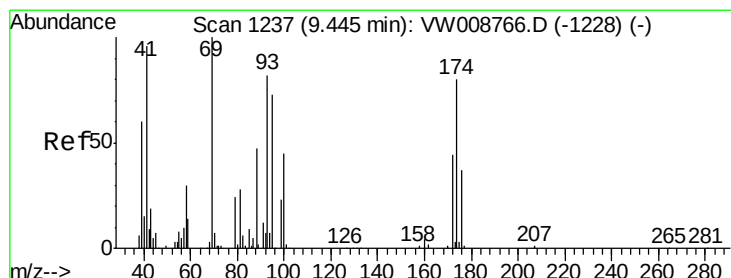
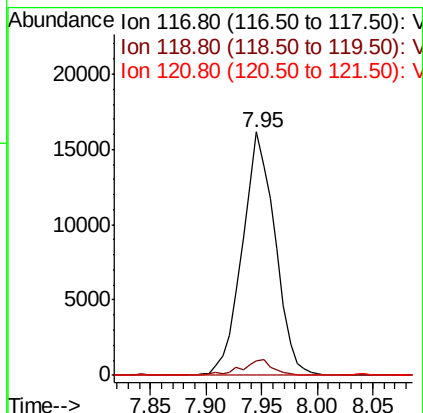
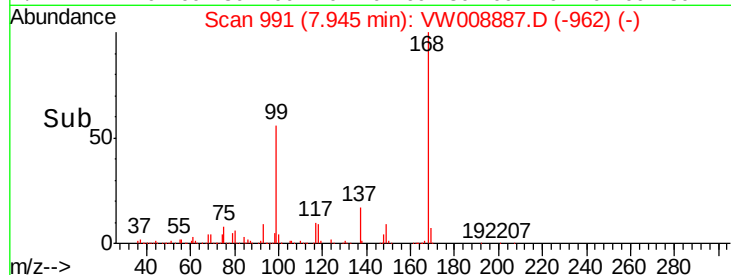
121 0.0 24.0 36.0#



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: 2.946 ug/l

RT: 9.50 min Scan# 1246

Delta R.T. 0.05 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

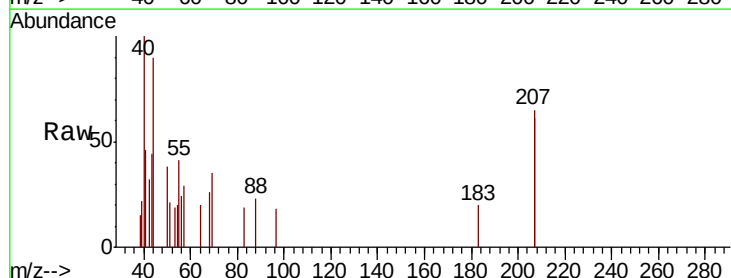
Tgt Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 323.7 29.0 43.4#

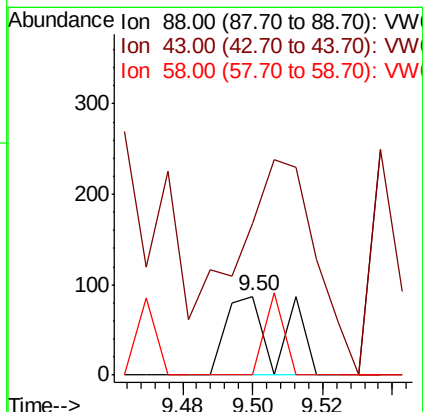
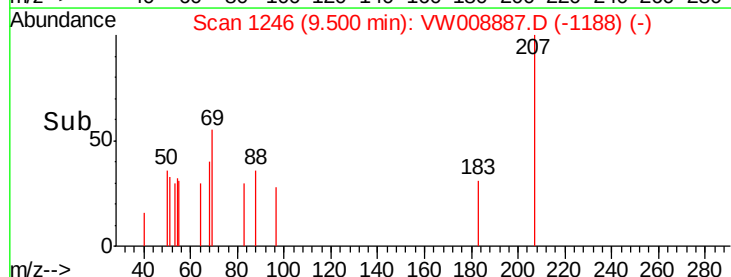
58 35.5 52.0 78.0#

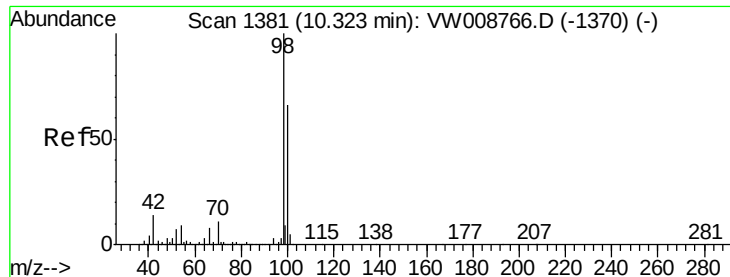


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

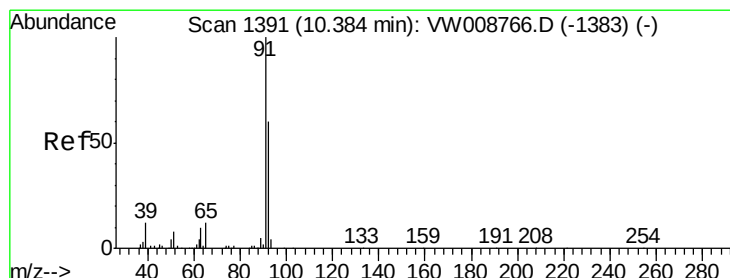
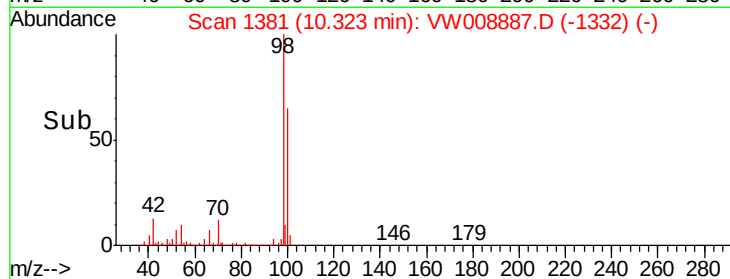
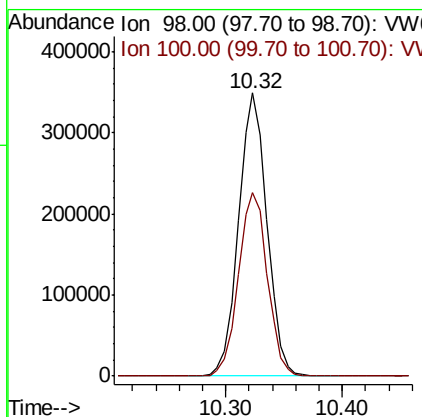
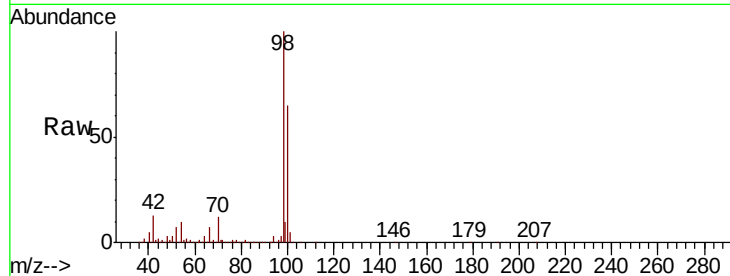




#50
Toluene-d8
Concen: 47.362 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008887.D
Acq: 28 Feb 2019 15:09

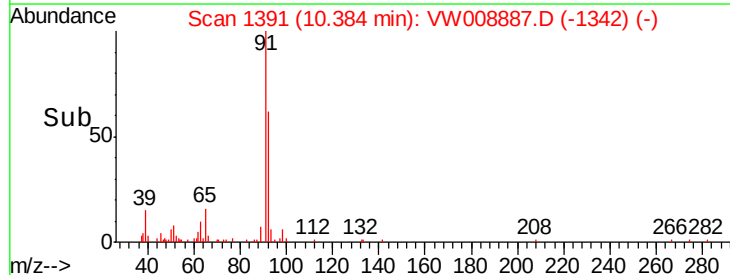
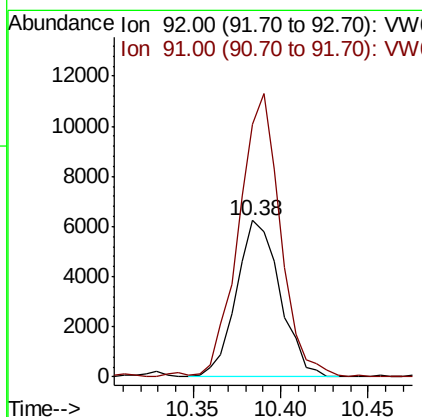
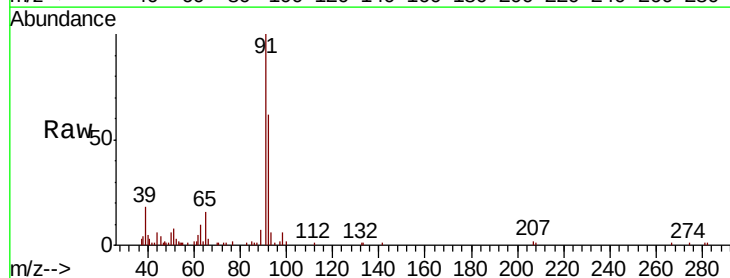
Instrument :
MSVOA_W
ClientSampleId :
B-4(4-5)

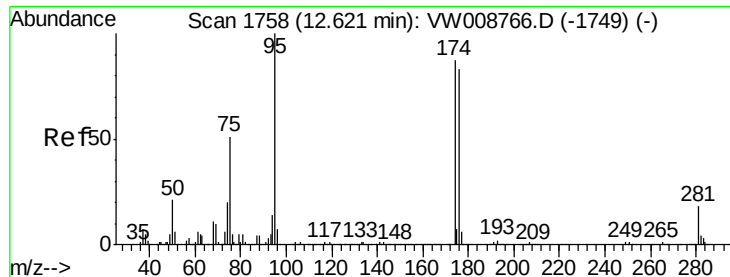
Tot Ion: 98 Resp: 592415
Ion Ratio Lower Upper
98 100
100 66.2 52.4 78.6



#52
Toluene
Concen: 1.116 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW008887.D
Acq: 28 Feb 2019 15:09

Tgt Ion: 92 Resp: 10864
Ion Ratio Lower Upper
92 100
91 173.1 136.9 205.3





#62

4-Bromofluorobenzene

Concen: 28.538 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampled :

B-4(4-5)

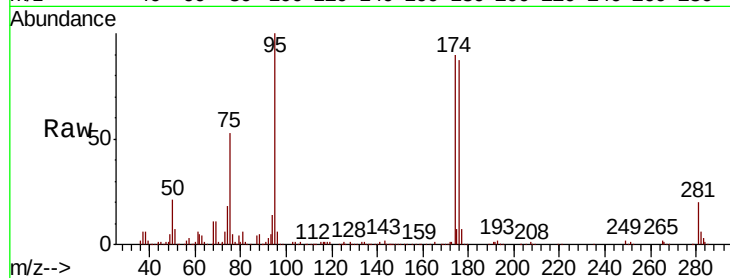
Tot Ion: 95 Resp: 139765

Ion Ratio Lower Upper

95 100

174 86.4 0.0 169.2

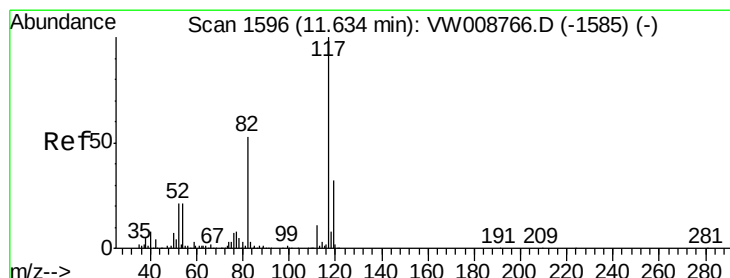
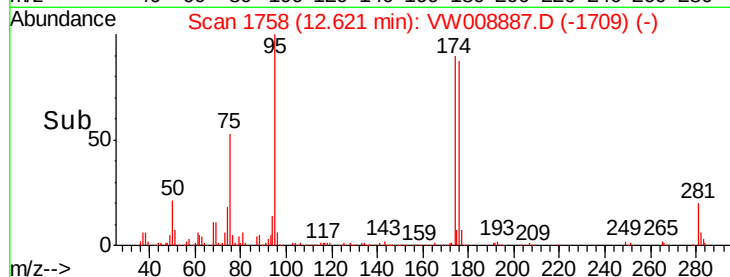
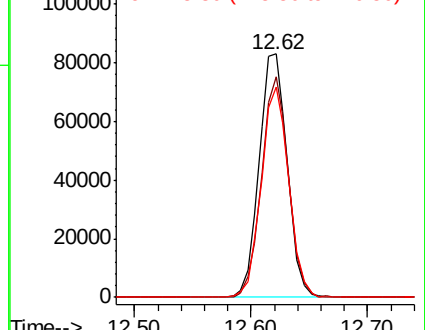
176 84.4 0.0 163.6



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: VW008887.D

Acq: 28 Feb 2019 15:09

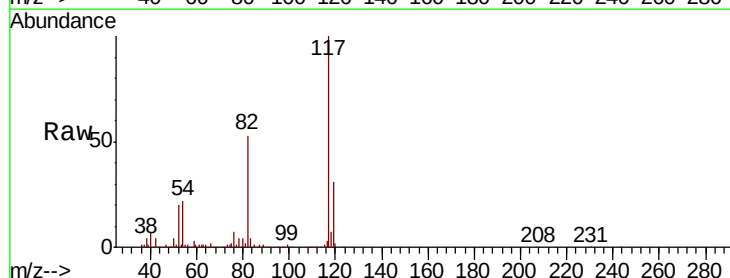
Tgt Ion: 117 Resp: 377304

Ion Ratio Lower Upper

117 100

82 52.9 42.2 63.4

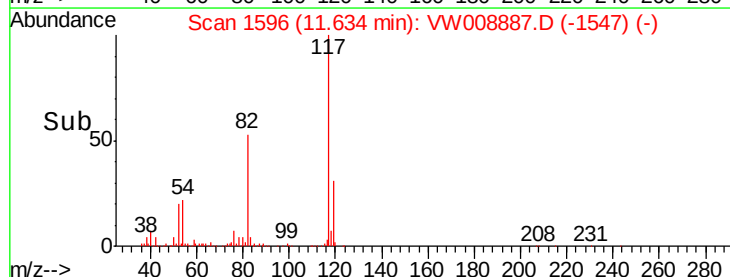
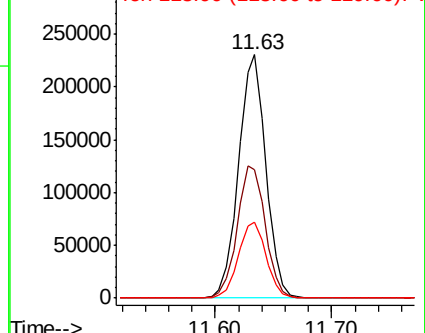
119 31.2 25.9 38.9

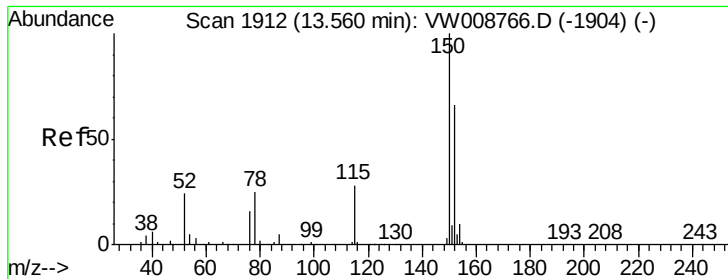


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampleId :

B-4(4-5)

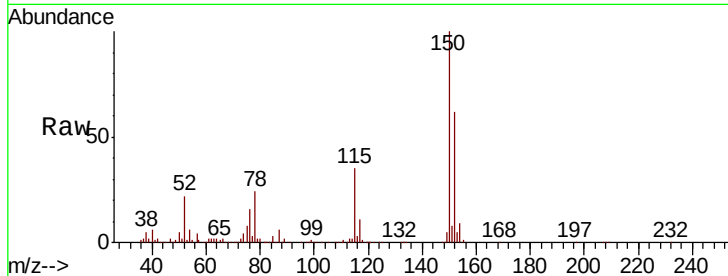
Tot Ion:152 Resp: 103313

Ion Ratio Lower Upper

152 100

115 56.0 28.6 85.8

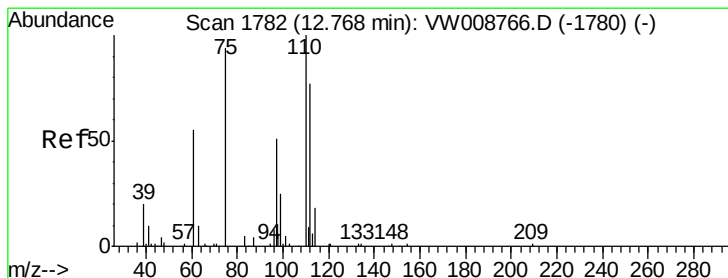
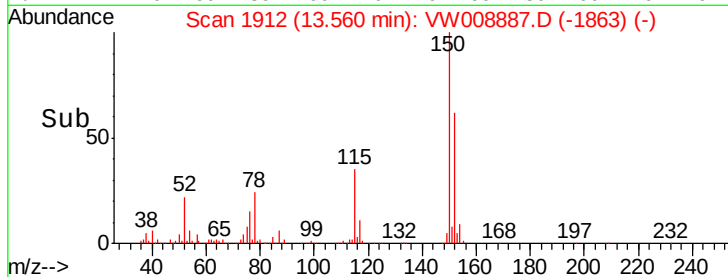
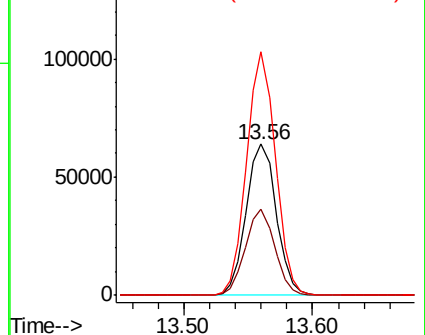
150 153.8 0.0 348.0



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



#76

1,2,3-Trichloropropane

Concen: 87.177 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008887.D

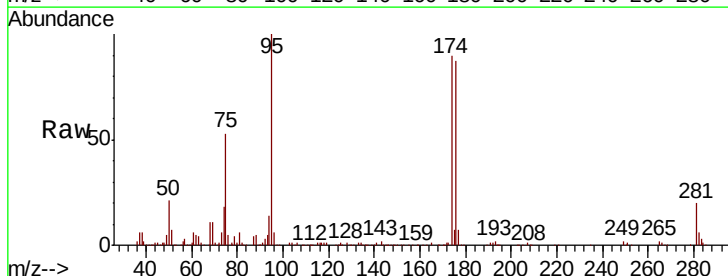
Acq: 28 Feb 2019 15:09

Tgt Ion: 75 Resp: 74361

Ion Ratio Lower Upper

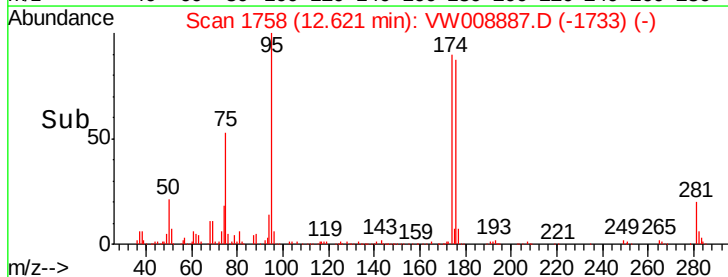
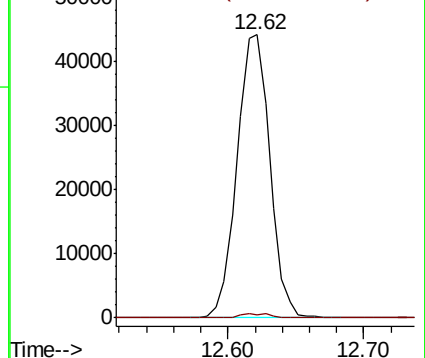
75 100

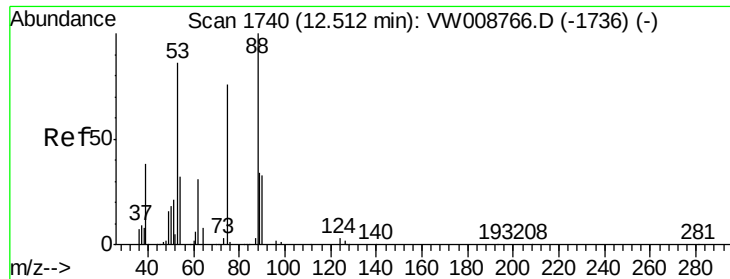
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

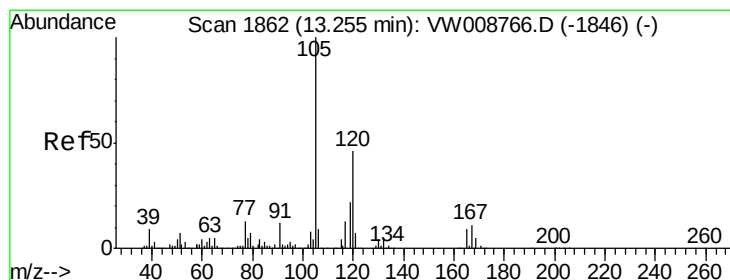
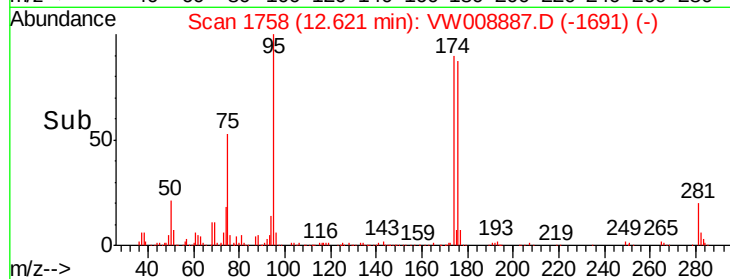
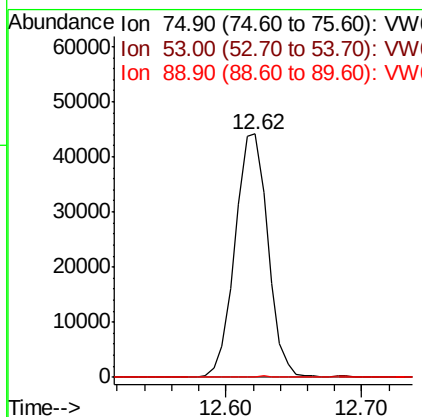
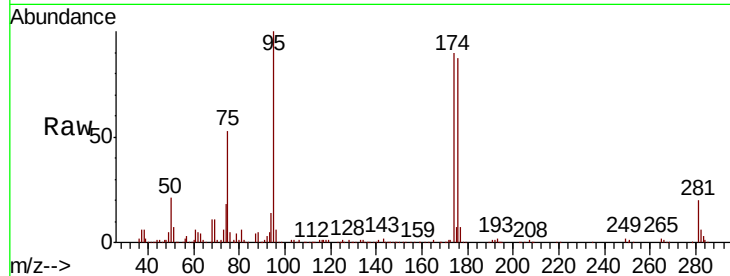




#81
trans-1,4-Dichloro-2-butene
Concen: 211.935 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW008887.D
Acq: 28 Feb 2019 15:09

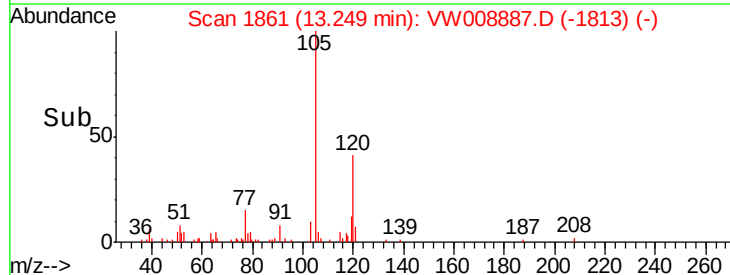
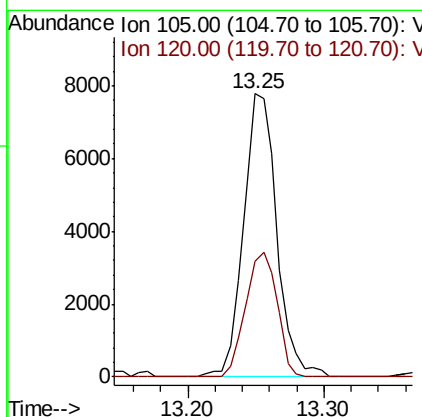
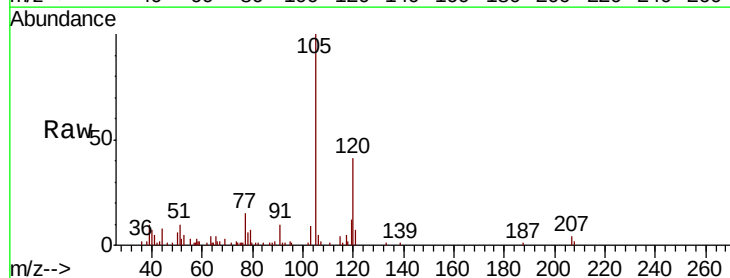
Instrument :
MSVOA_W
ClientSampleId :
B-4(4-5)

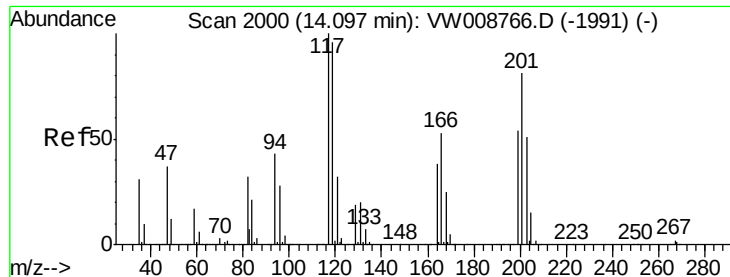
Tot Ion: 75 Resp: 74361
Ion Ratio Lower Upper
75 100
53 0.3 88.2 132.2#
89 0.1 39.5 59.3#



#84
1,2,4-Trimethylbenzene
Concen: 2.087 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.01 min
Lab File: VW008887.D
Acq: 28 Feb 2019 15:09

Tgt Ion: 105 Resp: 13299
Ion Ratio Lower Upper
105 100
120 42.0 22.8 68.4





#90

Hexachloroethane

Concen: 1.344 ug/l

RT: 14.11 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

Instrument :

MSVOA_W

ClientSampleId :

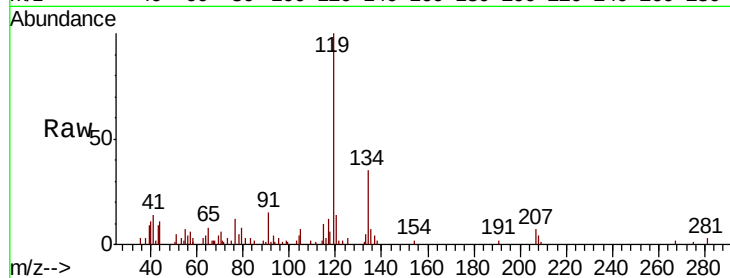
B-4(4-5)

Tot Ion:117 Resp: 1544

Ion Ratio Lower Upper

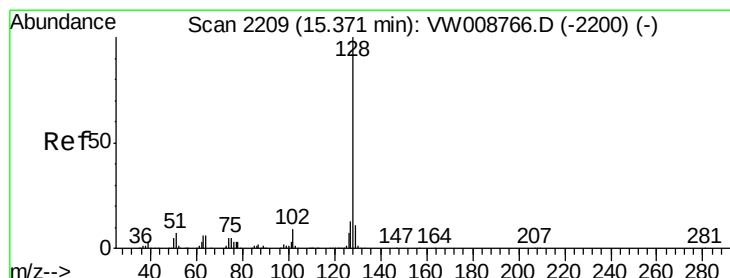
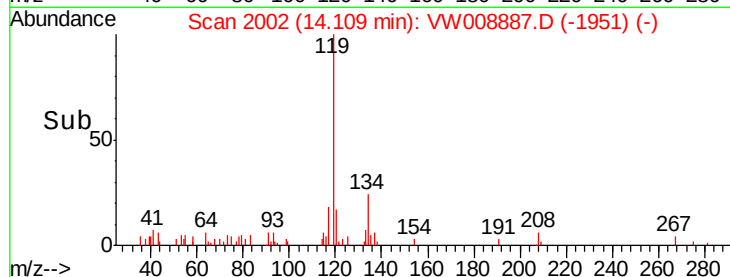
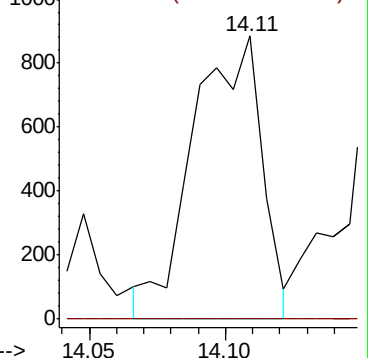
117 100

201 0.0 40.3 120.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 4.575 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW008887.D

Acq: 28 Feb 2019 15:09

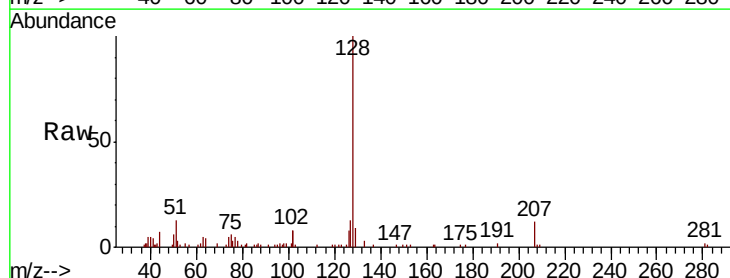
Tgt Ion:128 Resp: 17365

Ion Ratio Lower Upper

128 100

127 14.3 10.8 16.2

129 11.6 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

