

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022719\
 Data File : VW008866.D
 Acq On : 27 Feb 2019 20:23
 Operator : SY/VA
 Sample : K1353-05RE
 Misc : 6.34G/5ML/MSVOA W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Feb 28 07:05:31 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	177759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	262583	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	236696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	108308	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	94054	56.41	ug/l	0.00
Spiked Amount			Recovery	=	112.82%	
35) Dibromofluoromethane	7.88	113	79381	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
50) Toluene-d8	10.32	98	313221	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.62	95	105986	44.48	ug/l	0.00
Spiked Amount			Recovery	=	88.96%	

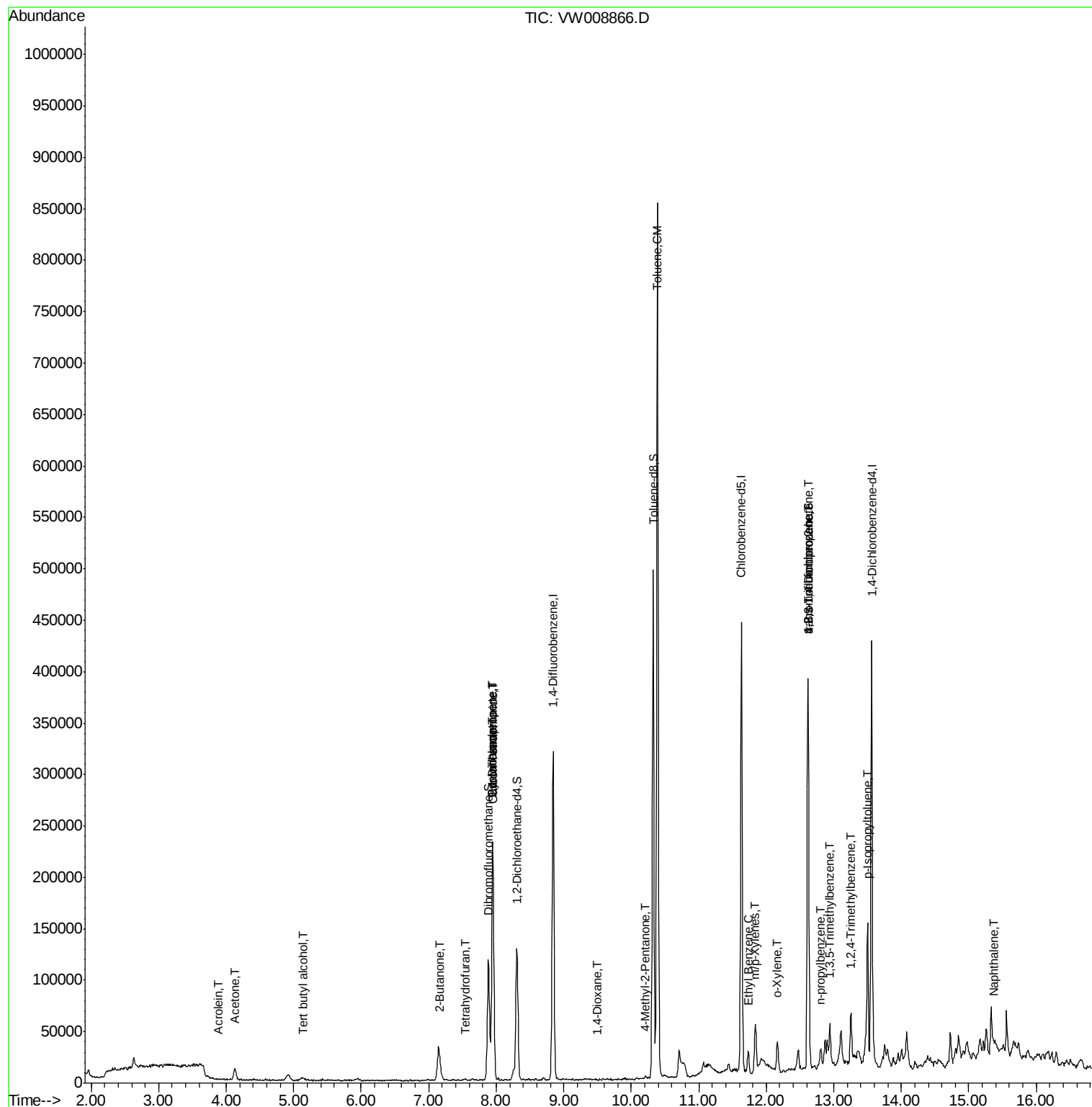
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.15	59	766	5.161	ug/l	95
13) Acrolein	3.89	56	218	21.062	ug/l #	28
16) Acetone	4.13	43	18303	47.362	ug/l	96
20) Methylene Chloride	4.92	84	4251	Below Cal	#	72
25) 2-Butanone	7.17	43	4119	7.624	ug/l	94
29) Tetrahydrofuran	7.54	42	1516	4.403	ug/l #	78
31) Cyclohexane	7.95	56	4025	1.281	ug/l #	3
36) 1,1-Dichloropropene	7.94	75	13620	5.328	ug/l #	52
38) Carbon Tetrachloride	7.96	117	16654	6.178	ug/l #	14
49) 1,4-Dioxane	9.50	88	84	5.468	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	1492	1.239	ug/l	95
52) Toluene	10.39	92	358999	75.796	ug/l	99
67) Ethyl Benzene	11.73	91	14077	1.582	ug/l	94
68) m/p-Xylenes	11.84	106	13924	3.917	ug/l	98
69) o-Xylene	12.17	106	7335	2.198	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	54978	61.481	ug/l #	100
78) n-propylbenzene	12.81	91	13634	1.501	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	14360	2.226	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	54978	149.465	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	27747	4.154	ug/l	99
86) p-Isopropyltoluene	13.50	119	72528	9.862	ug/l	93
95) Naphthalene	15.37	128	12048	3.028	ug/l #	87

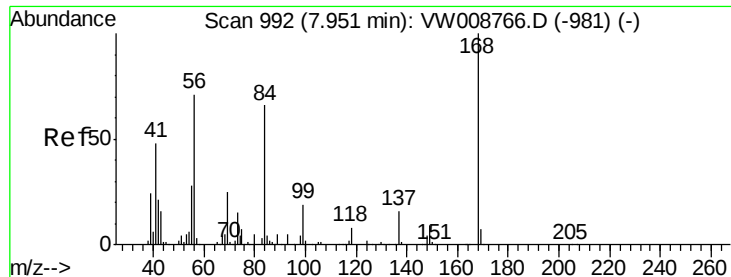
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 991

Delta R.T. -0.01 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

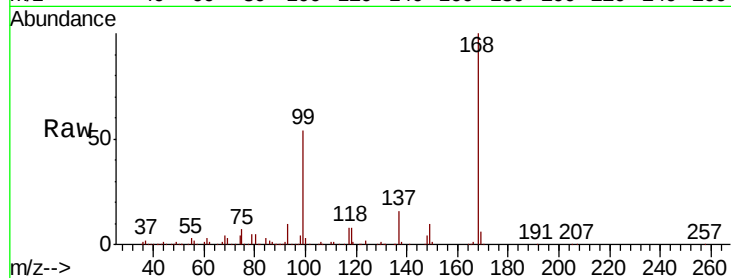
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 177759

Ion Ratio Lower Upper

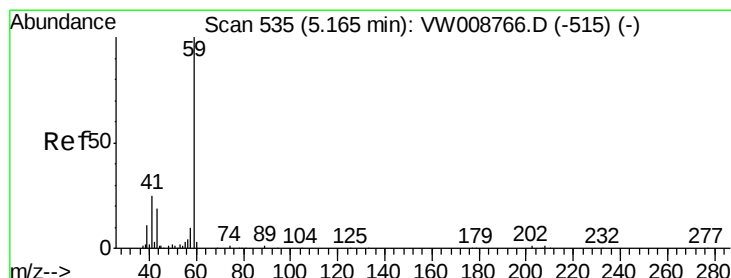
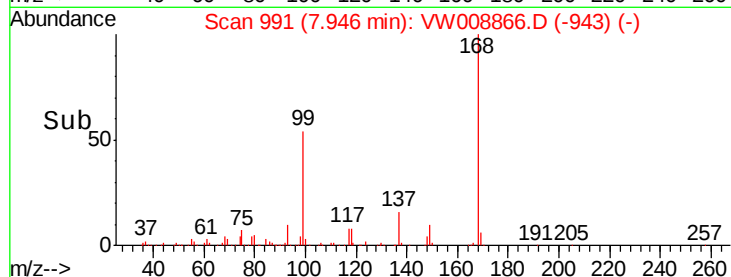
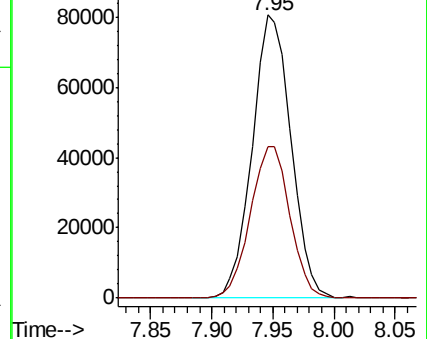
168 100

99 53.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 5.161 ug/l

RT: 5.15 min Scan# 532

Delta R.T. -0.02 min

Lab File: VW008866.D

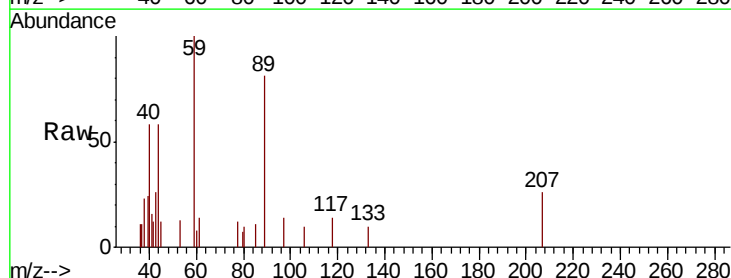
Acq: 27 Feb 2019 20:23

Tgt Ion: 59 Resp: 766

Ion Ratio Lower Upper

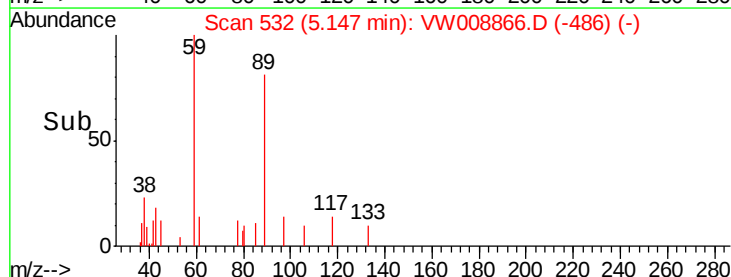
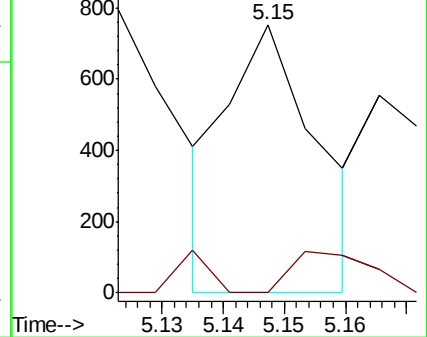
59 100

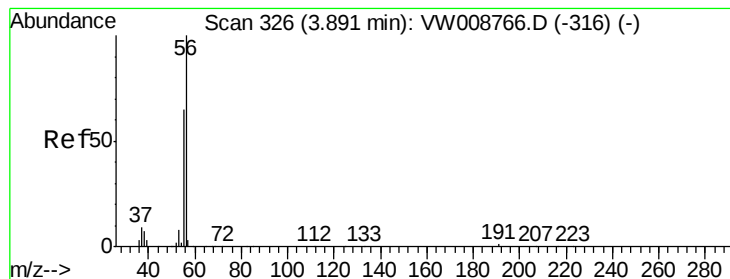
57 13.7 9.3 13.9



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 21.062 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

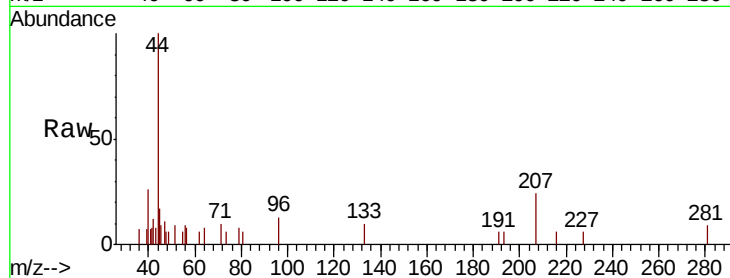
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 218

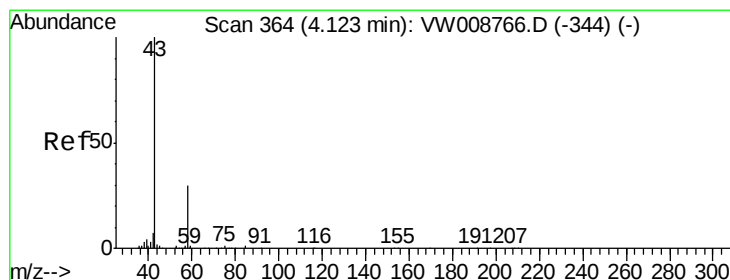
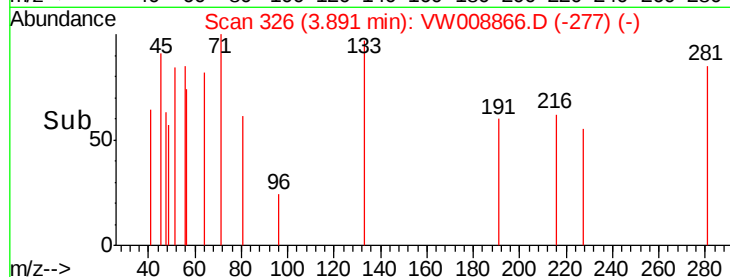
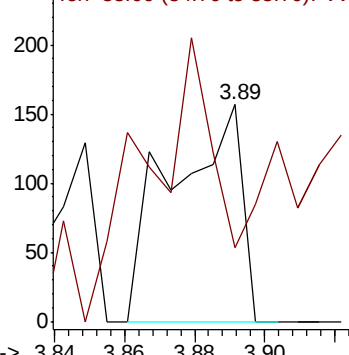
Ion Ratio Lower Upper

56 100

55 130.7 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 47.362 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008866.D

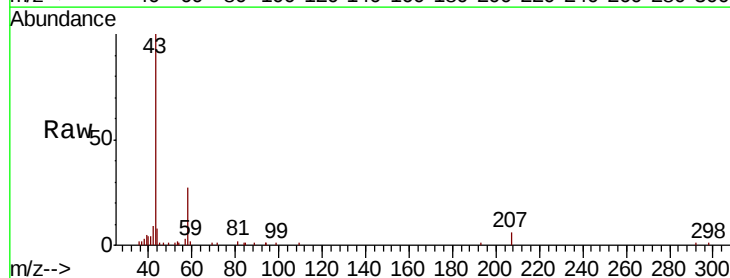
Acq: 27 Feb 2019 20:23

Tgt Ion: 43 Resp: 18303

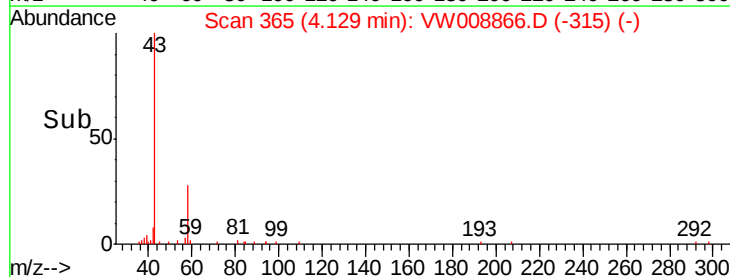
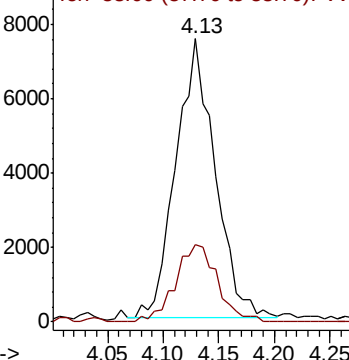
Ion Ratio Lower Upper

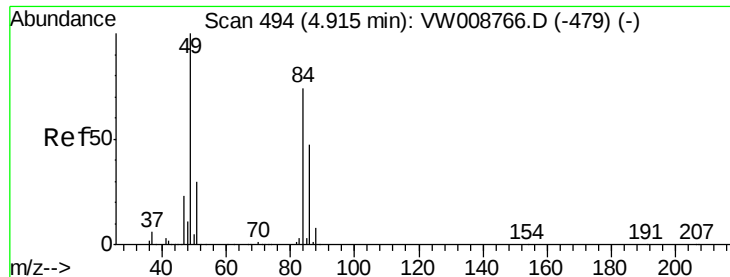
43 100

58 27.6 23.8 35.6



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

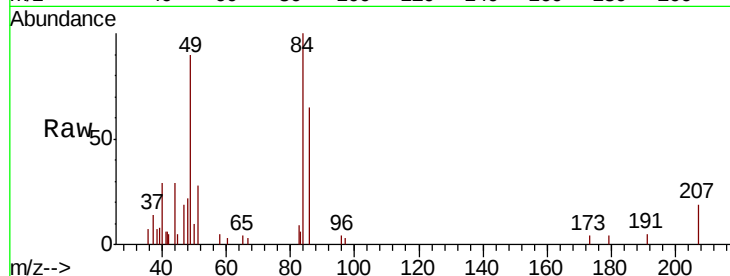




#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008866.D
Acq: 27 Feb 2019 20:23

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	84	Resp	4251
Ion Ratio	Lower	Upper	
84	100		
49	84.2	108.2	162.2#
51	27.7	32.7	49.1#
86	64.7	50.3	75.5



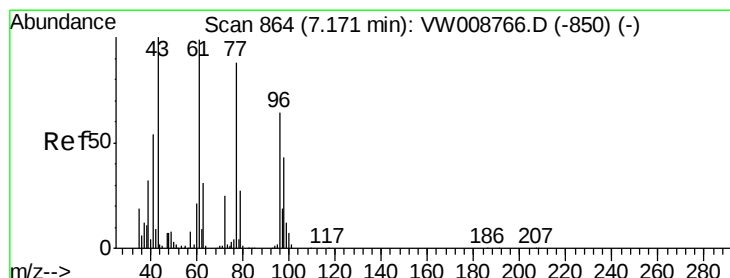
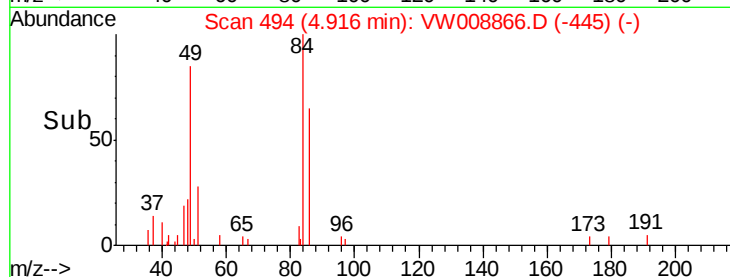
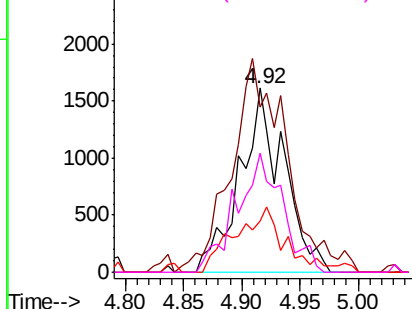
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

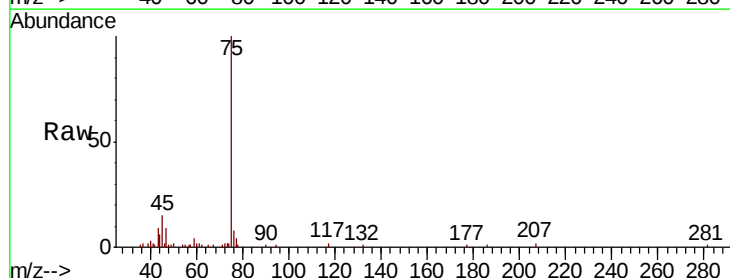
Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25
2-Butanone
Concen: 7.624 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW008866.D
Acq: 27 Feb 2019 20:23

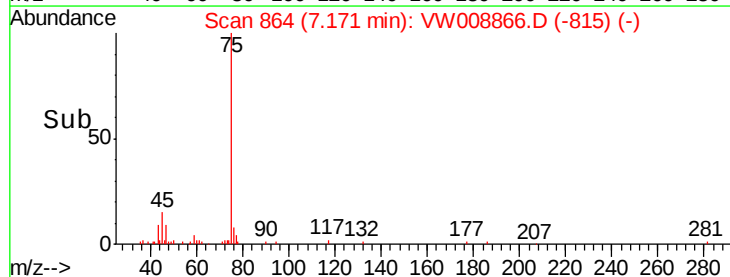
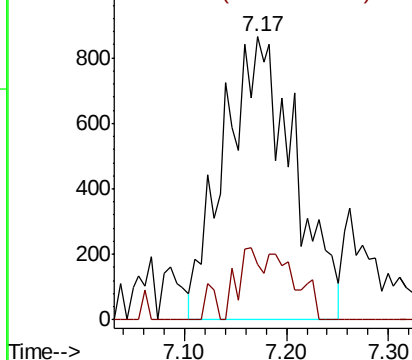
Tgt Ion	43	Resp	4119
Ion Ratio	Lower	Upper	
43	100		
72	21.8	19.7	29.5

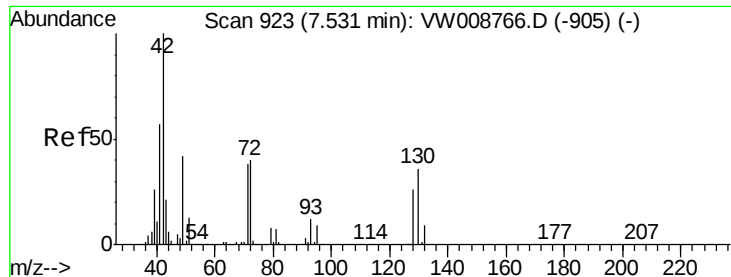


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

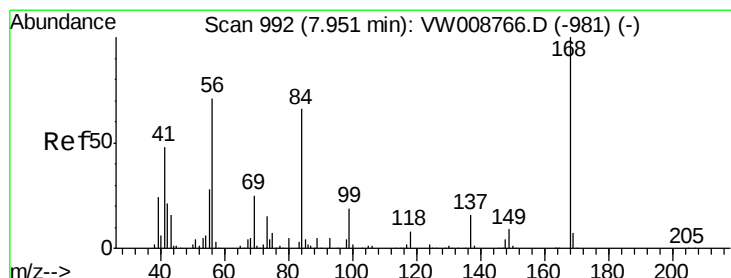
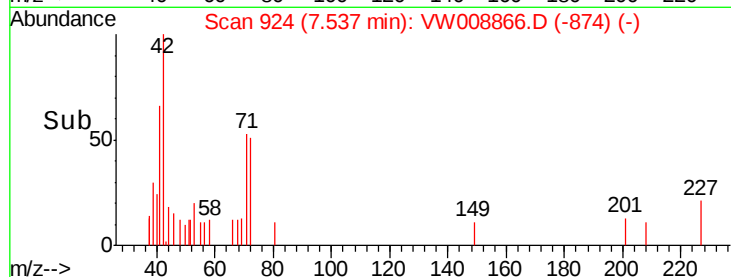
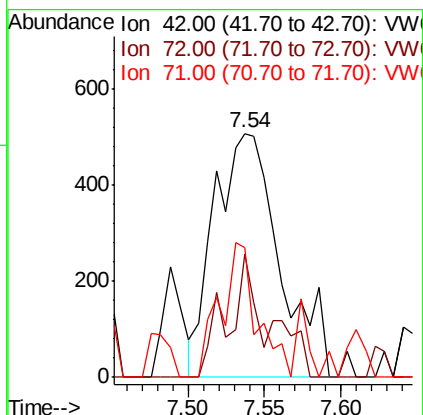
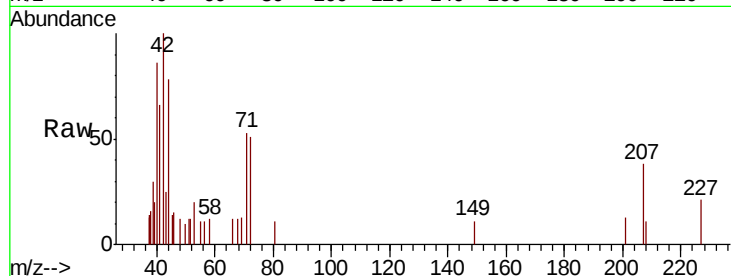




#29
Tetrahydrofuran
Concen: 4.403 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008866.D
Acq: 27 Feb 2019 20:23

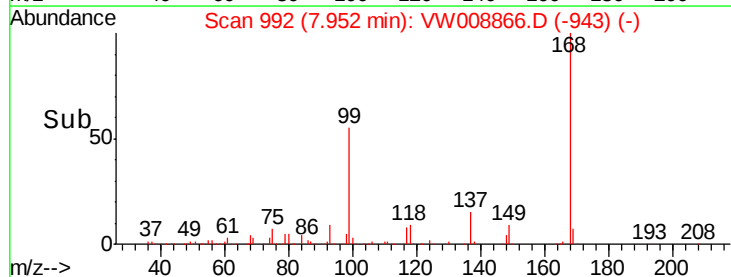
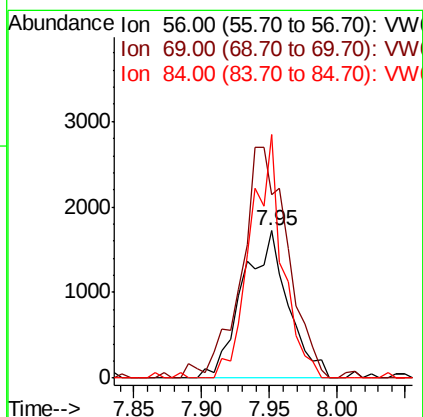
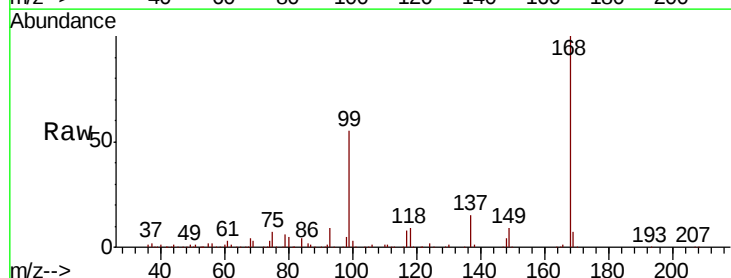
Instrument :
MSVOA_W
ClientSampleId :

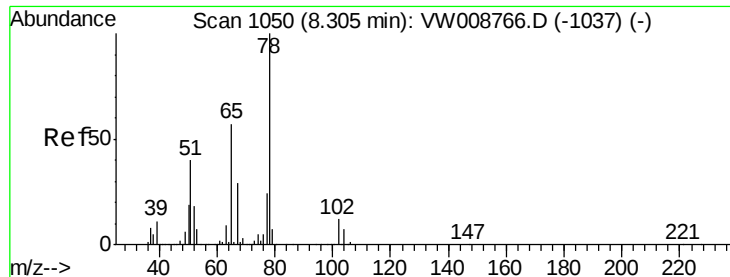
Tot Ion: 42 Resp: 1516
Ion Ratio Lower Upper
42 100
72 21.6 32.7 49.1#
71 30.7 31.3 46.9#



#31
Cyclohexane
Concen: 1.281 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW008866.D
Acq: 27 Feb 2019 20:23

Tgt Ion: 56 Resp: 4025
Ion Ratio Lower Upper
56 100
69 124.8 28.2 42.4#
84 165.4 74.1 111.1#

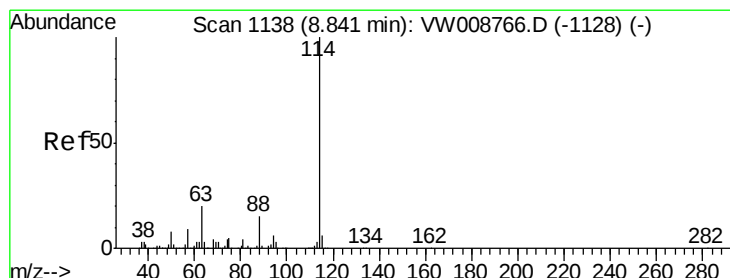
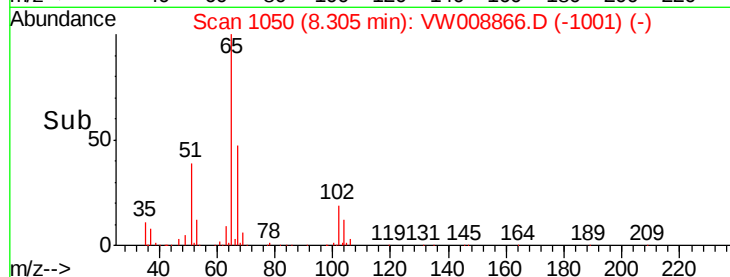
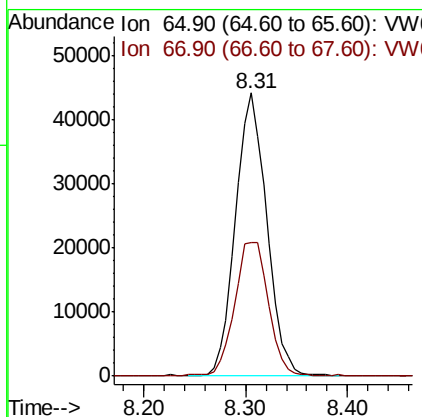
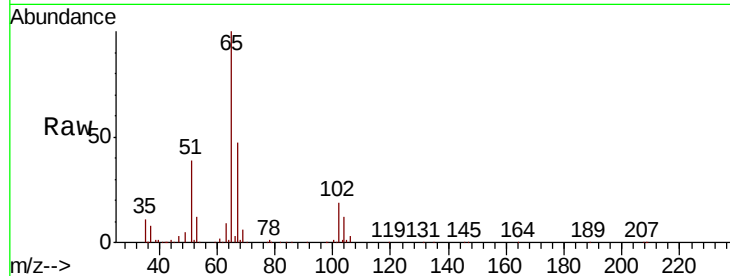




#33
 1,2-Dichloroethane-d4
 Concen: 56.414 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008866.D
 Acq: 27 Feb 2019 20:23

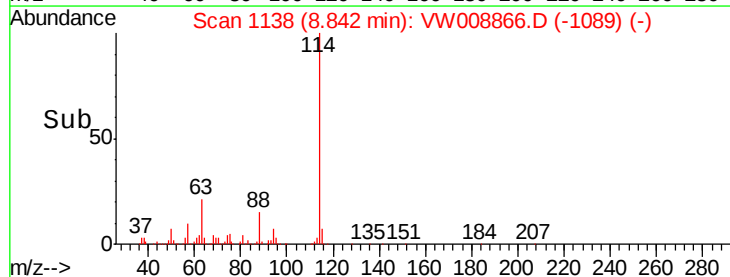
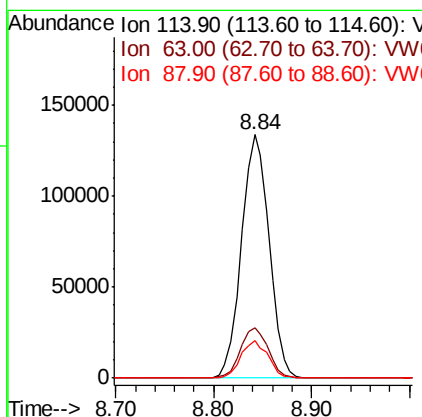
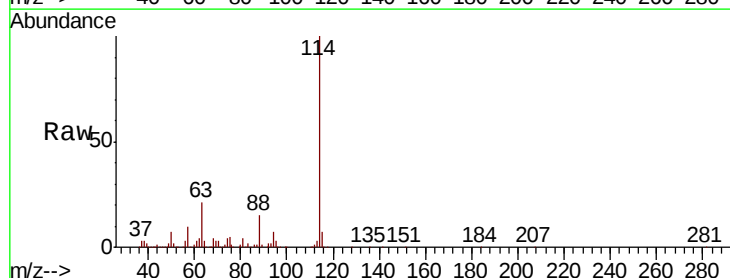
Instrument :
 MSVOA_W
 ClientSampleId :

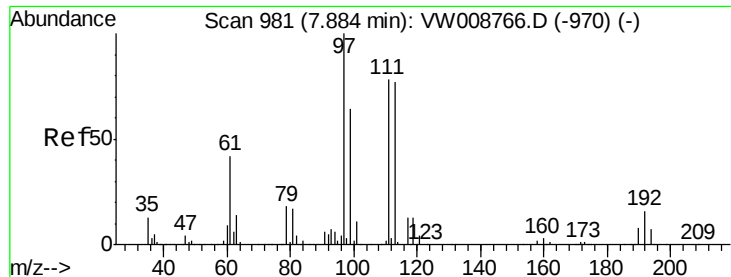
Tot Ion: 65 Resp: 94054
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008866.D
 Acq: 27 Feb 2019 20:23

Tgt Ion: 114 Resp: 262583
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.8
 88 15.3 0.0 30.4

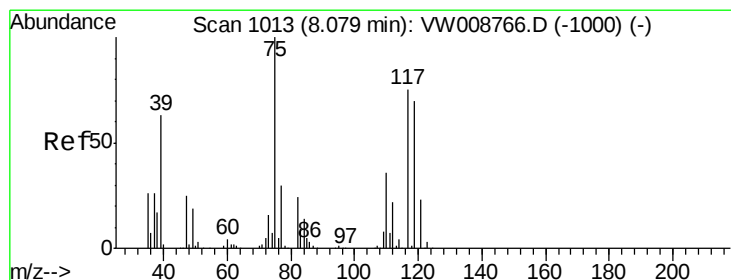
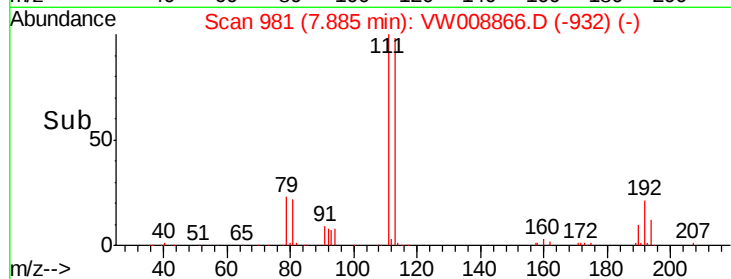
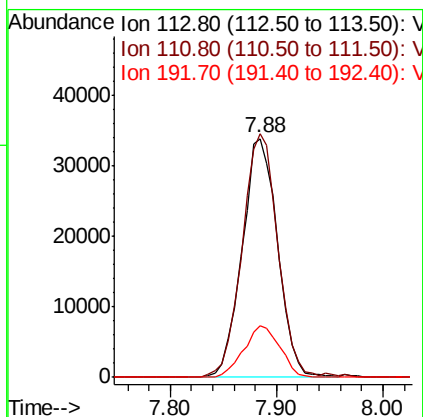
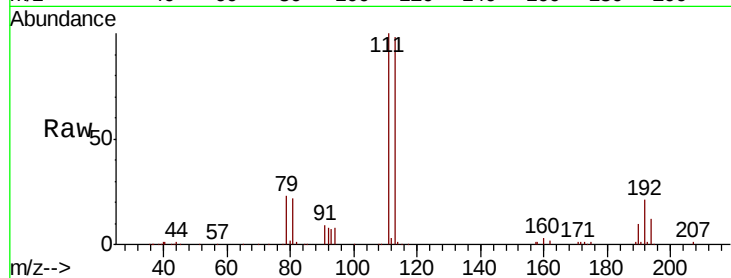




#35
 Dibromofluoromethane
 Concen: 50.350 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW008866.D
 Acq: 27 Feb 2019 20:23

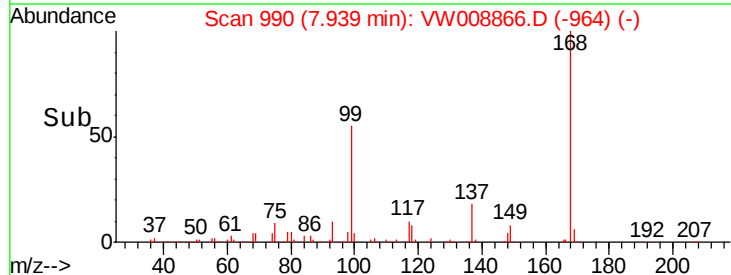
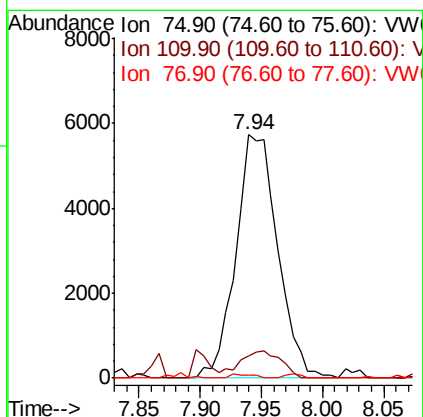
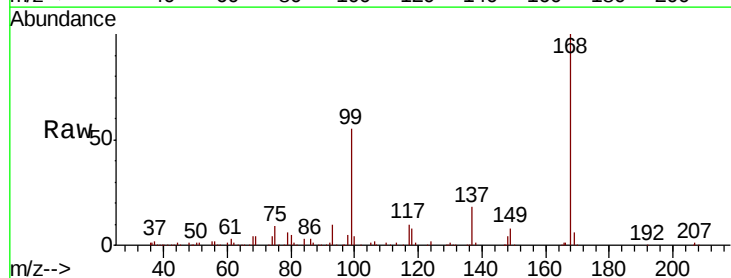
Instrument :
 MSVOA_W
 ClientSampleId :

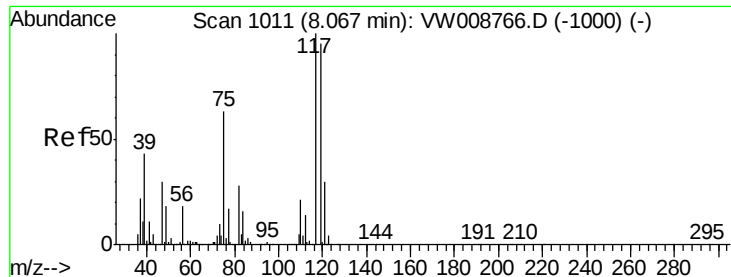
Tot Ion:113 Resp: 79381
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.9 122.9
 192 22.2 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 5.328 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW008866.D
 Acq: 27 Feb 2019 20:23

Tgt Ion: 75 Resp: 13620
 Ion Ratio Lower Upper
 75 100
 110 11.0 17.5 52.6#
 77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.178 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.11 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

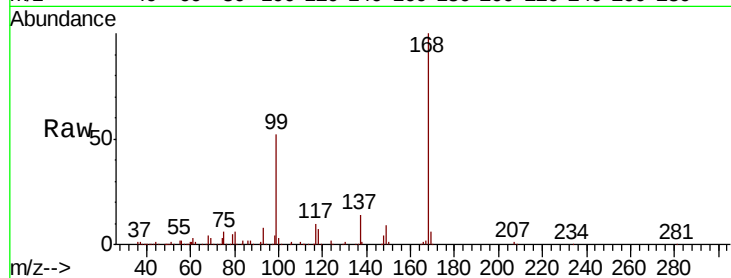
Tot Ion:117 Resp: 16654

Ion Ratio Lower Upper

117 100

119 2.6 76.1 114.1#

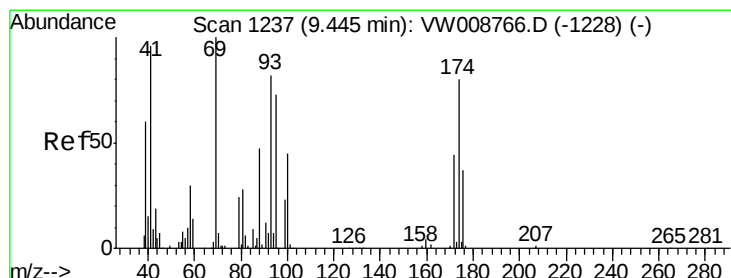
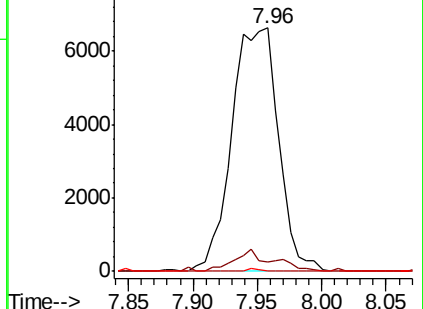
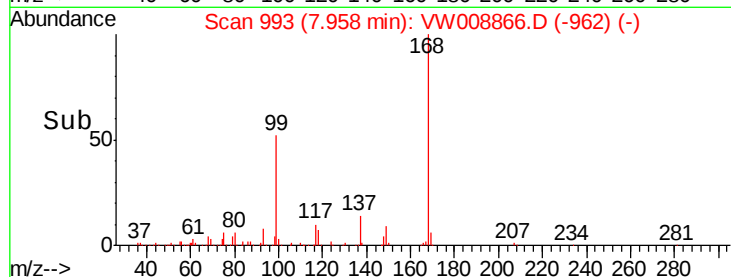
121 0.0 24.0 36.0#



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: 5.468 ug/l

RT: 9.50 min Scan# 1246

Delta R.T. 0.06 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

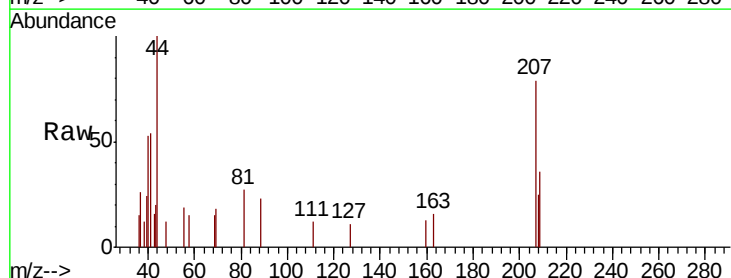
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 148.8 29.0 43.4#

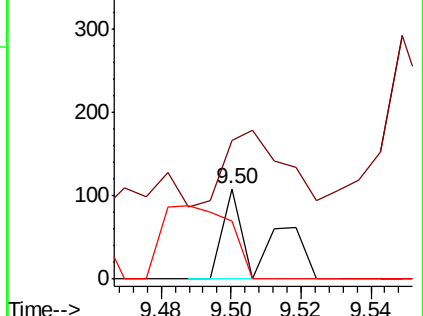
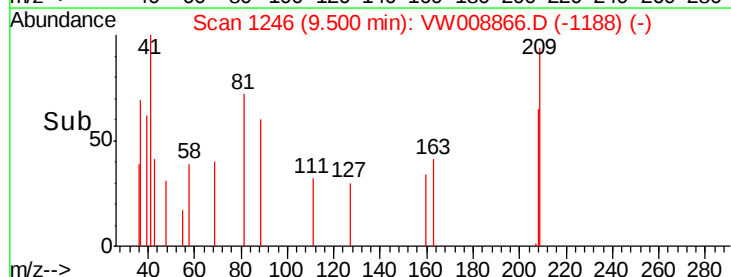
58 0.0 52.0 78.0#

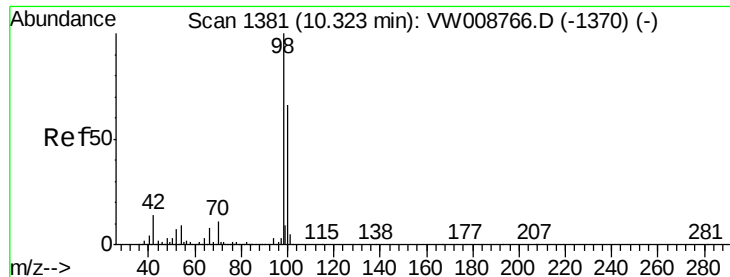


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 51.465 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

Instrument :

MSVOA_W

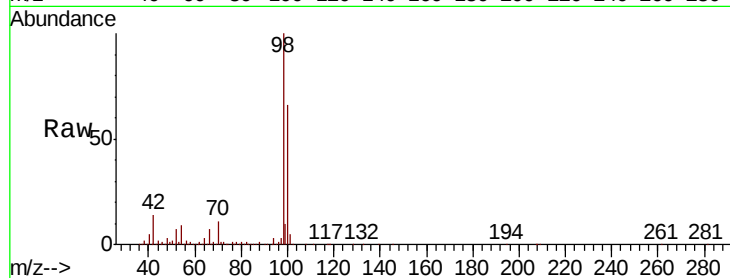
ClientSampleId :

Tot Ion: 98 Resp: 313221

Ion Ratio Lower Upper

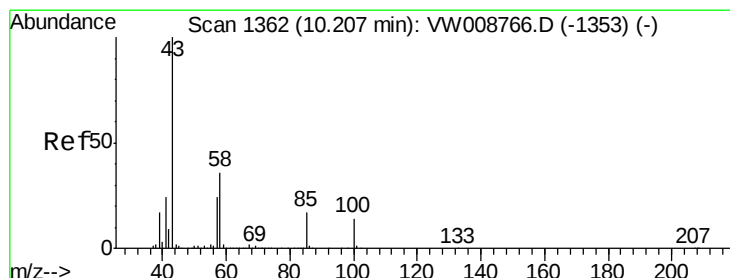
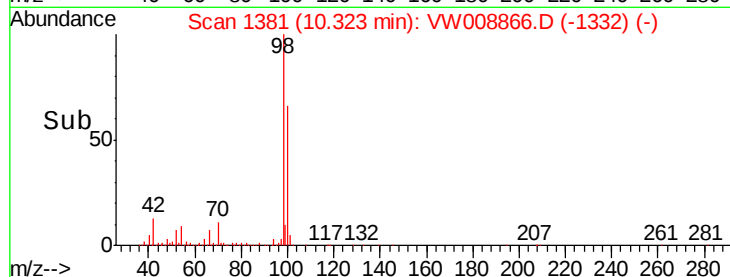
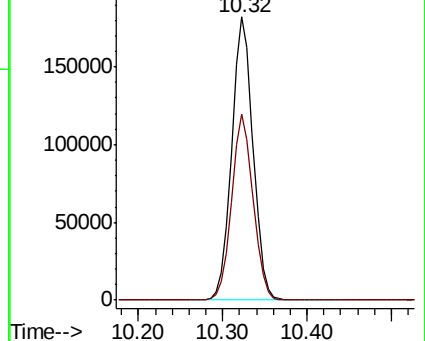
98 100

100 65.8 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: 1.239 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008866.D

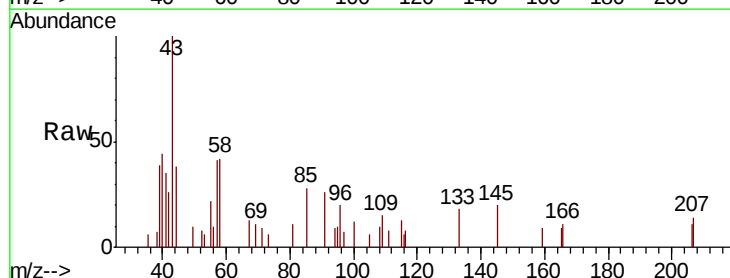
Acq: 27 Feb 2019 20:23

Tgt Ion: 43 Resp: 1492

Ion Ratio Lower Upper

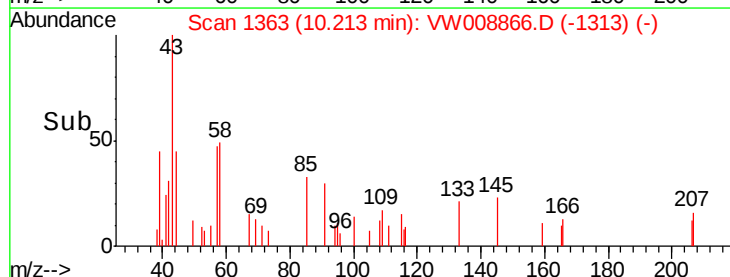
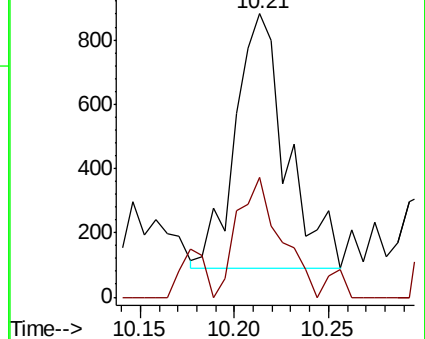
43 100

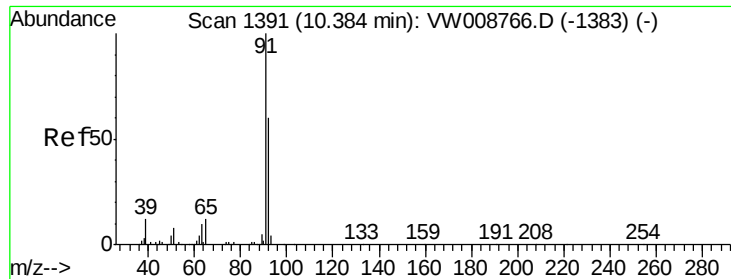
58 39.5 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 75.796 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

Instrument :

MSVOA_W

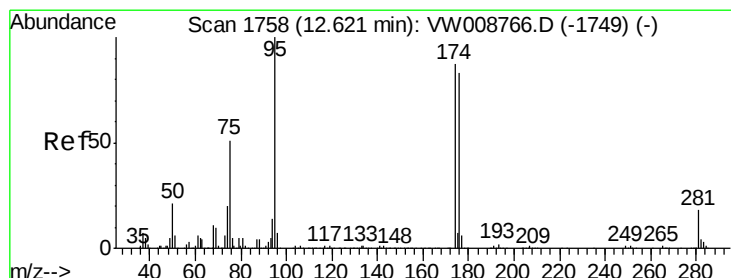
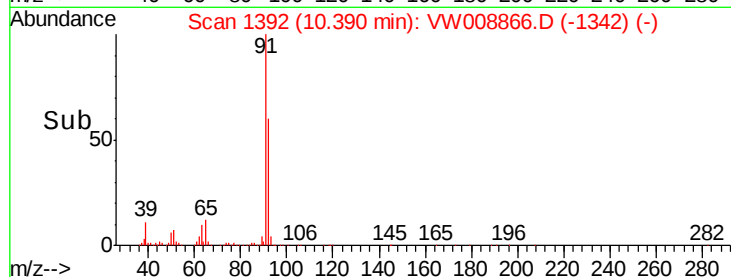
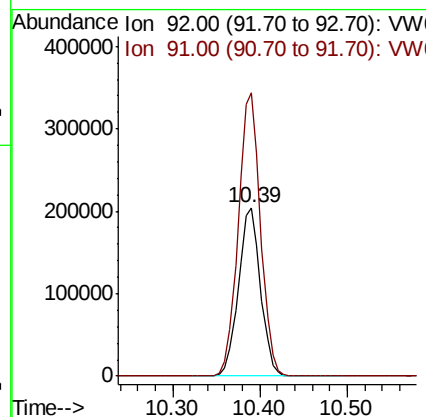
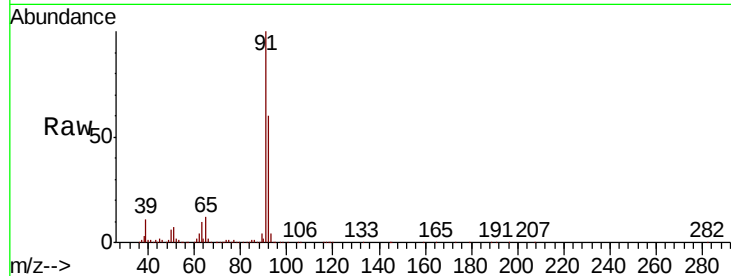
ClientSampleId :

Tot Ion: 92 Resp: 358999

Ion Ratio Lower Upper

92 100

91 169.6 136.9 205.3



#62

4-Bromofluorobenzene

Concen: 44.477 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

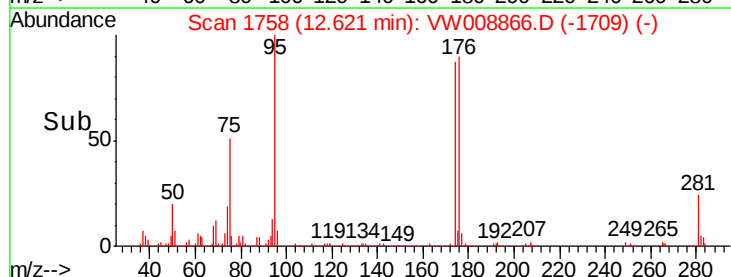
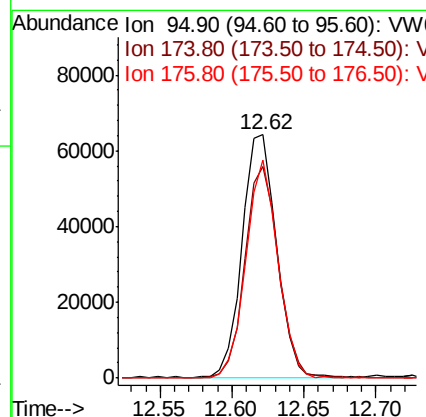
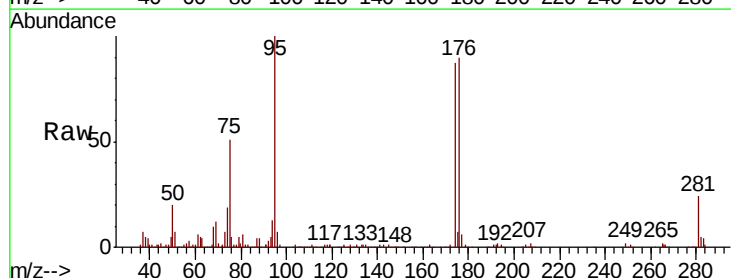
Tgt Ion: 95 Resp: 105986

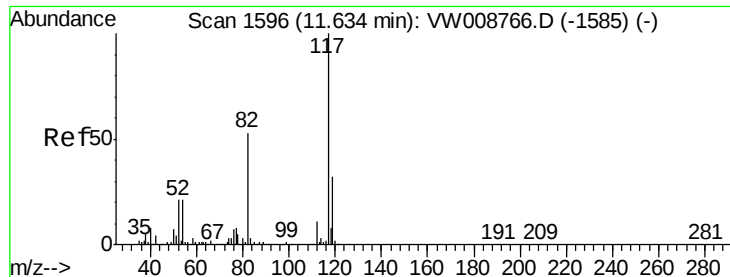
Ion Ratio Lower Upper

95 100

174 84.7 0.0 169.2

176 83.5 0.0 163.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

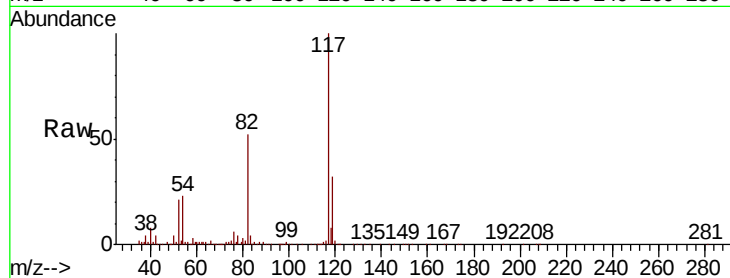
Tot Ion:117 Resp: 236696

Ion Ratio Lower Upper

117 100

82 52.4 42.2 63.4

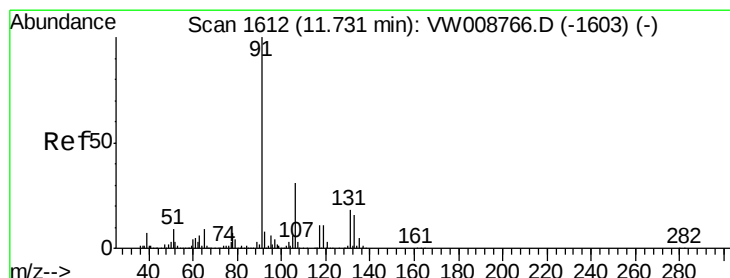
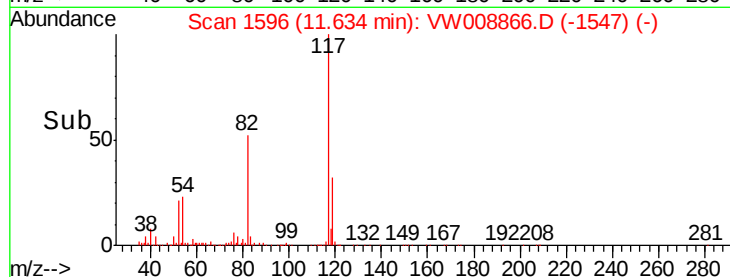
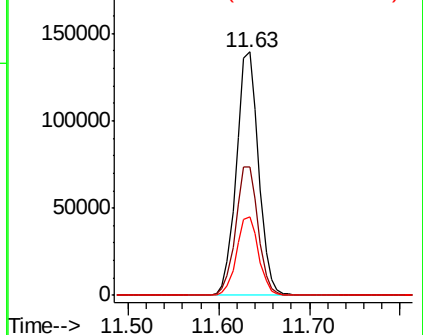
119 32.2 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 1.582 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008866.D

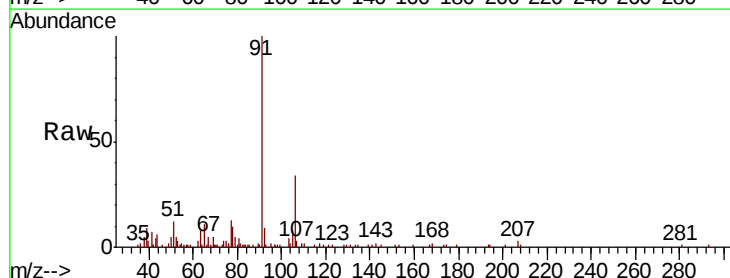
Acq: 27 Feb 2019 20:23

Tgt Ion: 91 Resp: 14077

Ion Ratio Lower Upper

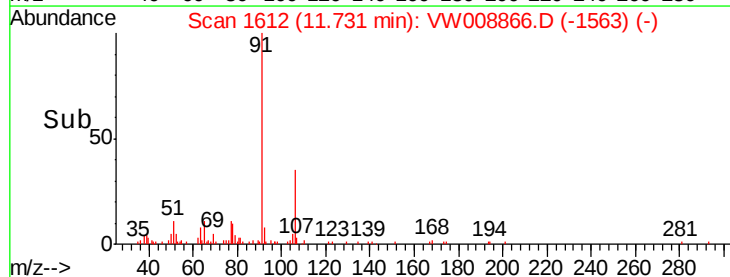
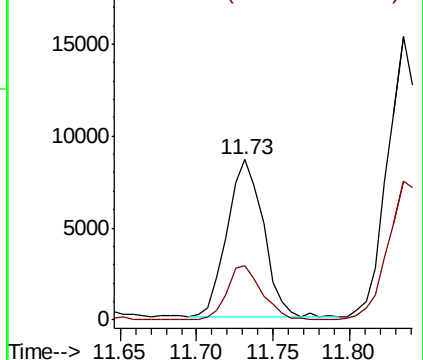
91 100

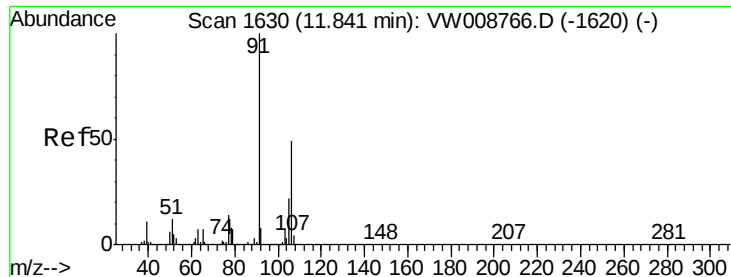
106 34.4 25.0 37.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

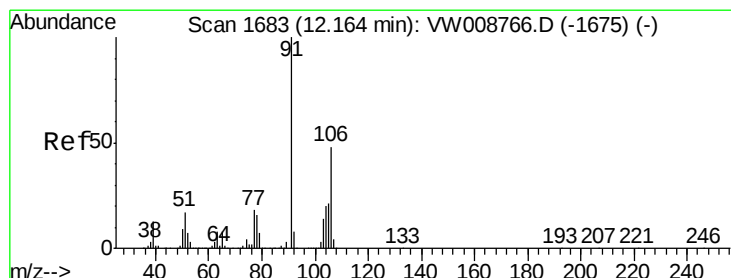
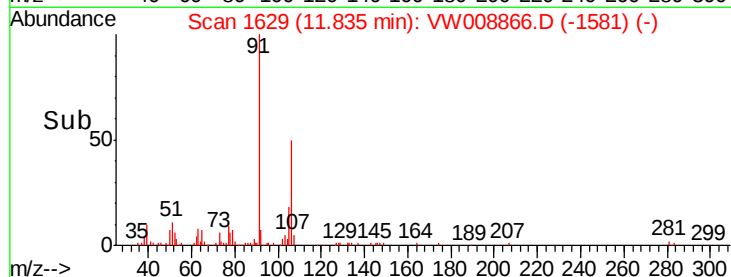
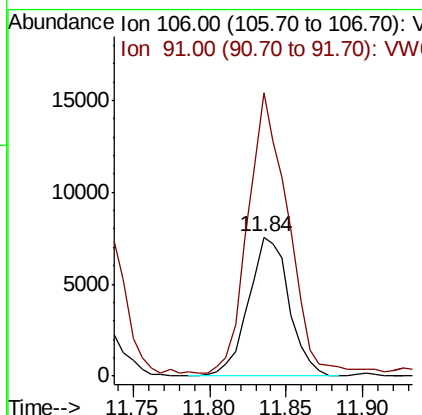
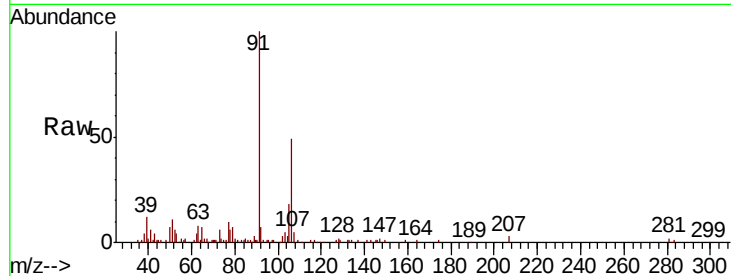




#68
m/p-Xylenes
Concen: 3.917 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008866.D
Acq: 27 Feb 2019 20:23

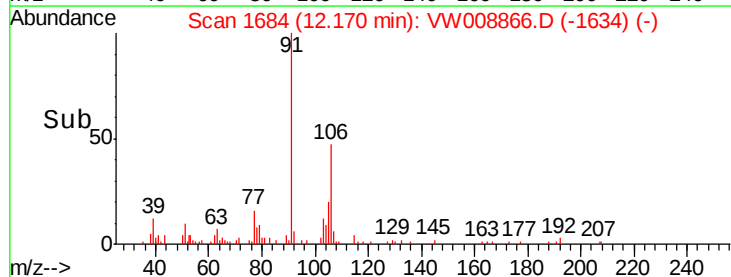
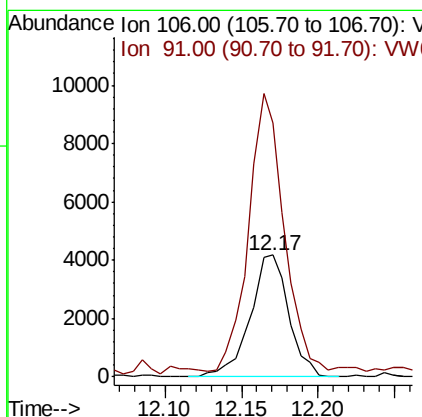
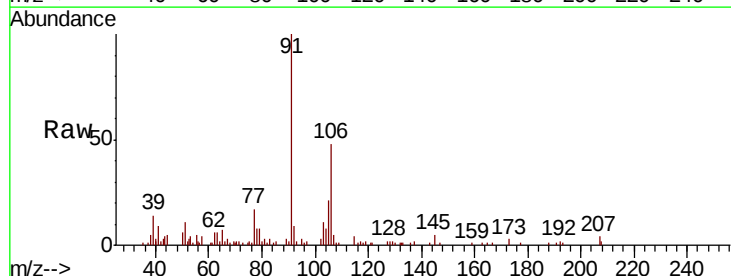
Instrument :
MSVOA_W
ClientSampleId :

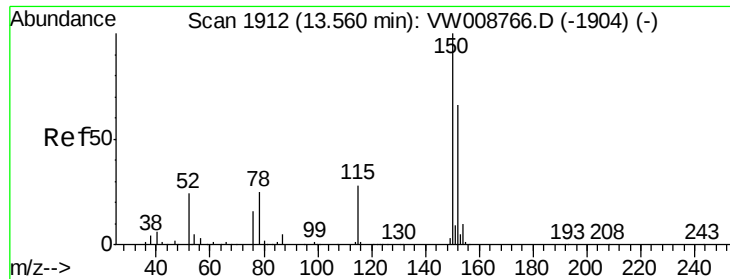
Tot Ion:106 Resp: 13924
Ion Ratio Lower Upper
106 100
91 198.9 161.5 242.3



#69
o-Xylene
Concen: 2.198 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW008866.D
Acq: 27 Feb 2019 20:23

Tgt Ion:106 Resp: 7335
Ion Ratio Lower Upper
106 100
91 207.7 106.2 318.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

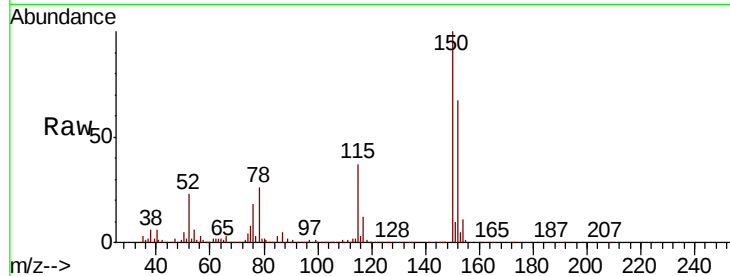
Tot Ion:152 Resp: 108308

Ion Ratio Lower Upper

152 100

115 56.9 28.6 85.8

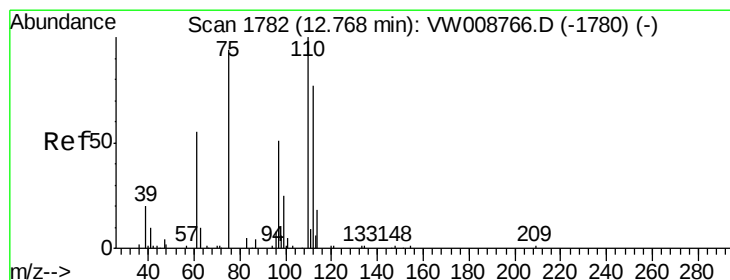
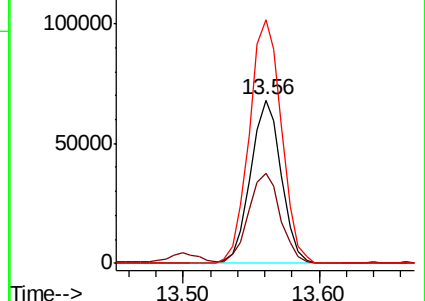
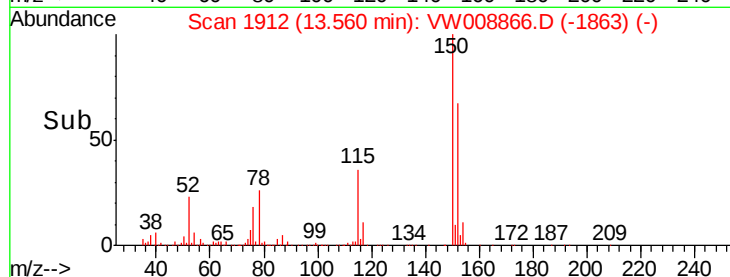
150 155.9 0.0 348.0



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



#76

1,2,3-Trichloropropane

Concen: 61.481 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008866.D

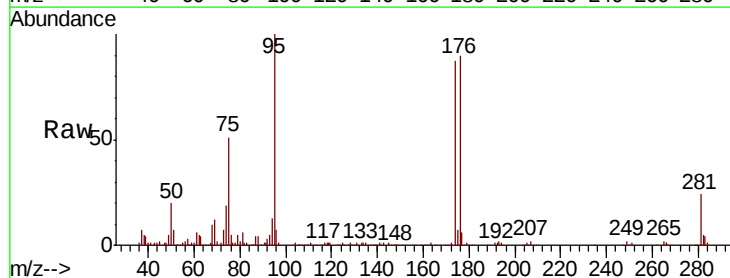
Acq: 27 Feb 2019 20:23

Tgt Ion: 75 Resp: 54978

Ion Ratio Lower Upper

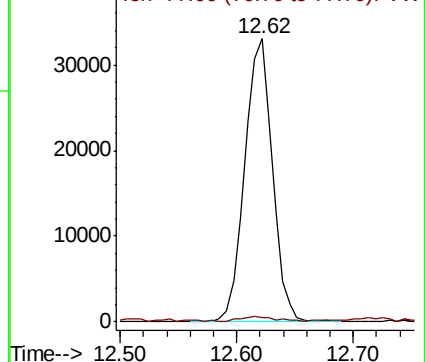
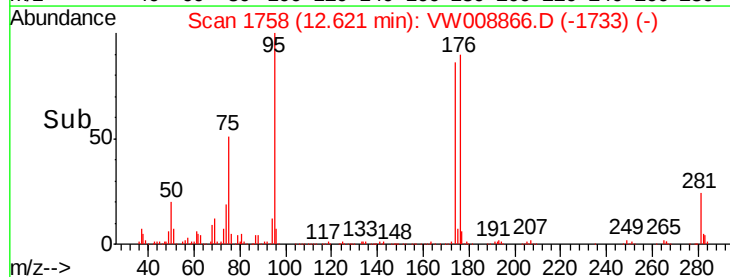
75 100

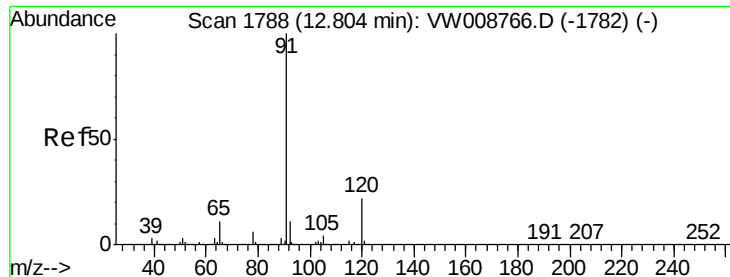
77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 1.501 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

Instrument :

MSVOA_W

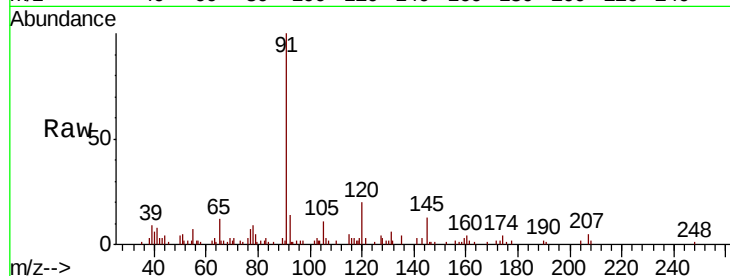
ClientSampleId :

Tot Ion: 91 Resp: 13634

Ion Ratio Lower Upper

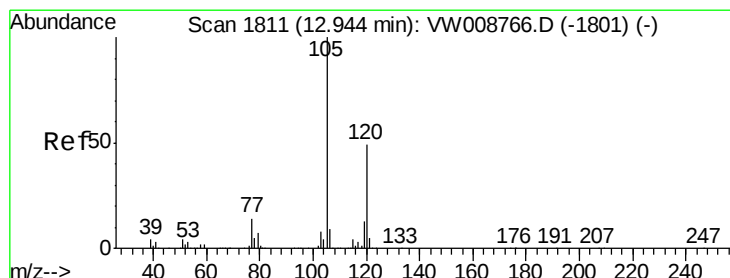
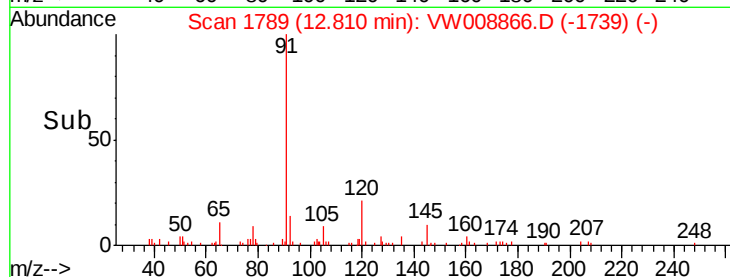
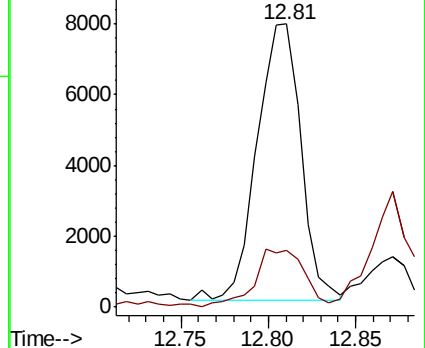
91 100

120 23.7 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 2.226 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008866.D

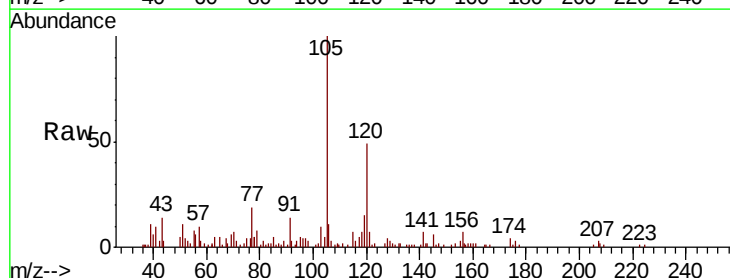
Acq: 27 Feb 2019 20:23

Tgt Ion:105 Resp: 14360

Ion Ratio Lower Upper

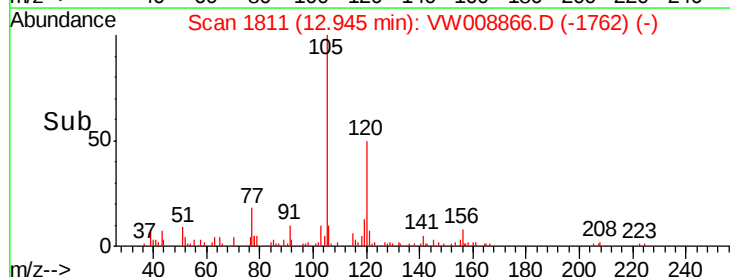
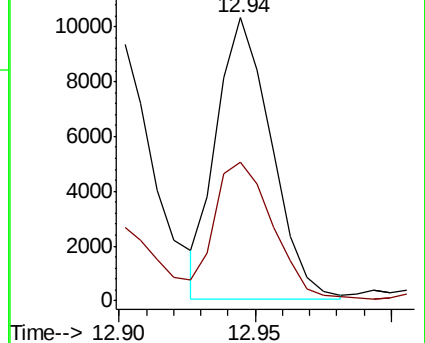
105 100

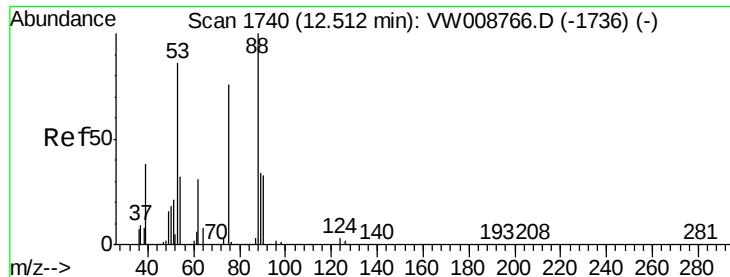
120 53.1 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 149.465 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008866.D

Acq: 27 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

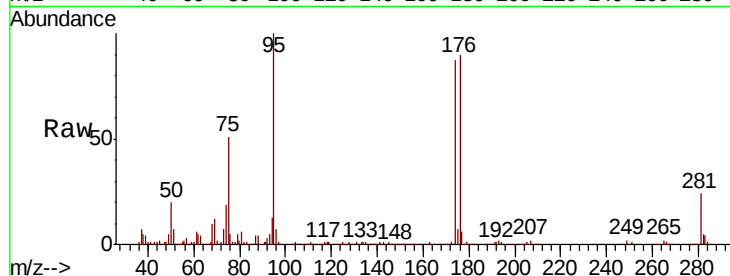
Tot Ion: 75 Resp: 54978

Ion Ratio Lower Upper

75 100

53 0.4 88.2 132.2#

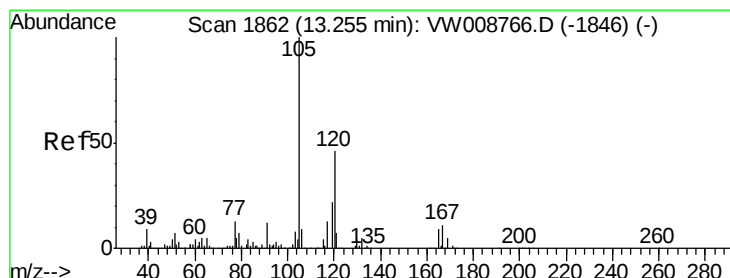
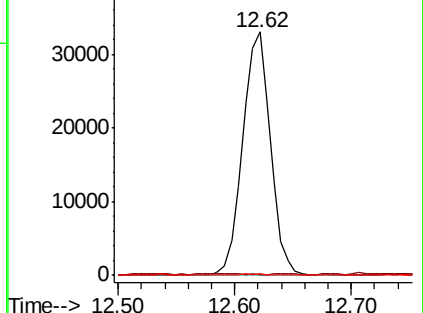
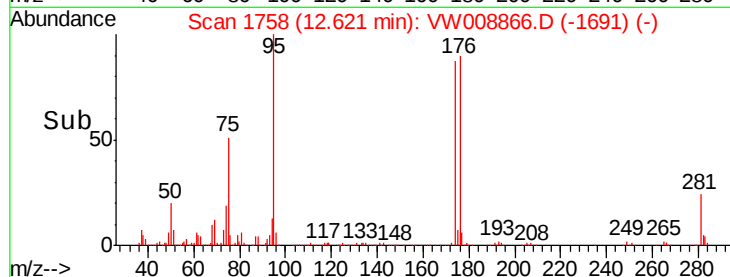
89 0.4 39.5 59.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 4.154 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008866.D

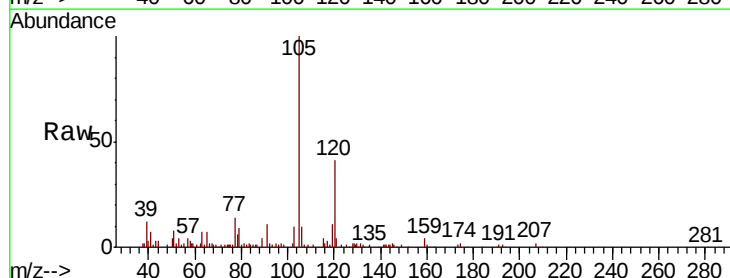
Acq: 27 Feb 2019 20:23

Tgt Ion: 105 Resp: 27747

Ion Ratio Lower Upper

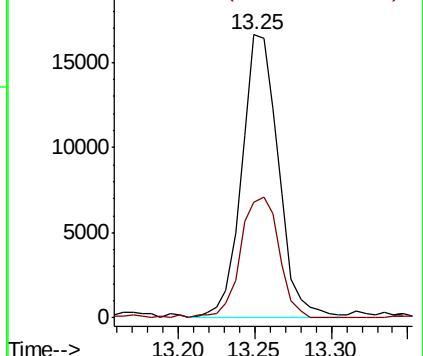
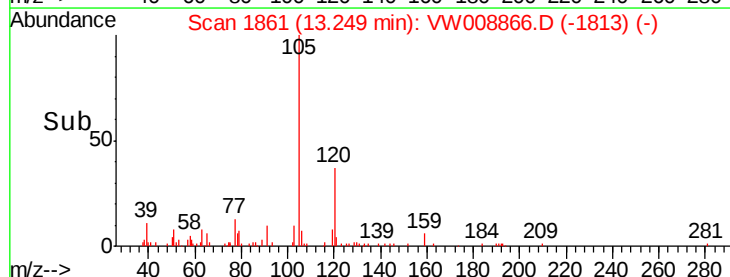
105 100

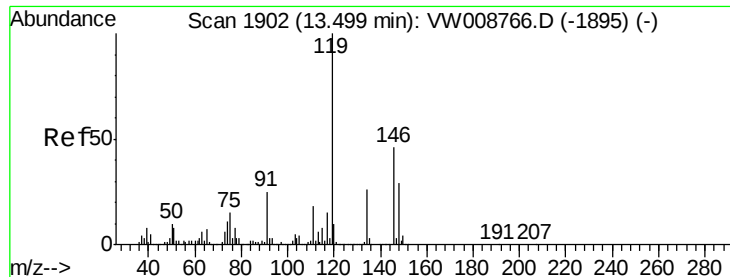
120 44.7 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

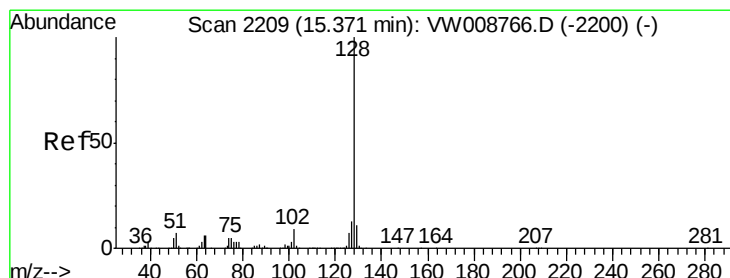
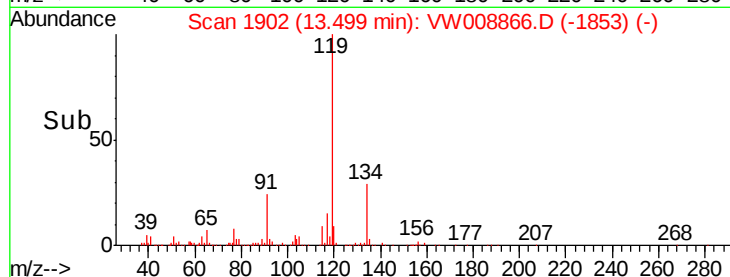
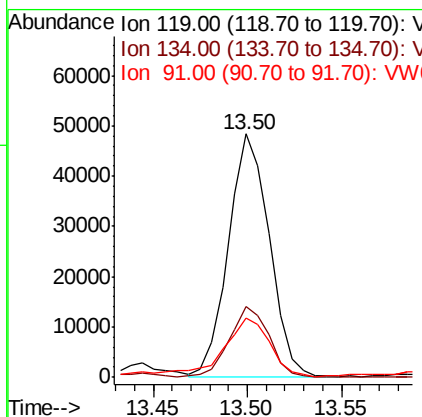
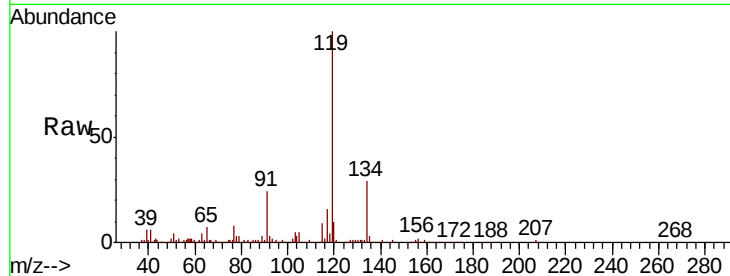




#86
 p-Isopropyltoluene
 Concen: 9.862 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW008866.D
 Acq: 27 Feb 2019 20:23

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.5	13.1	39.3
91	28.9	12.1	36.3



#95
 Naphthalene
 Concen: 3.028 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW008866.D
 Acq: 27 Feb 2019 20:23

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.0	10.8	16.2#
129	14.0	8.7	13.1#

