

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021519\
 Data File : VW008689.D
 Acq On : 15 Feb 2019 17:18
 Operator : SY/VA
 Sample : K1358-03
 Misc : 6.59G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Feb 16 00:35:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 04:06:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	343973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	526803	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	430698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	176263	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	187443	52.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.84%	
35) Dibromofluoromethane	7.88	113	128769	39.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.74%	
50) Toluene-d8	10.32	98	603562	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	
62) 4-Bromofluorobenzene	12.62	95	193003	40.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.28%	

Target Compounds

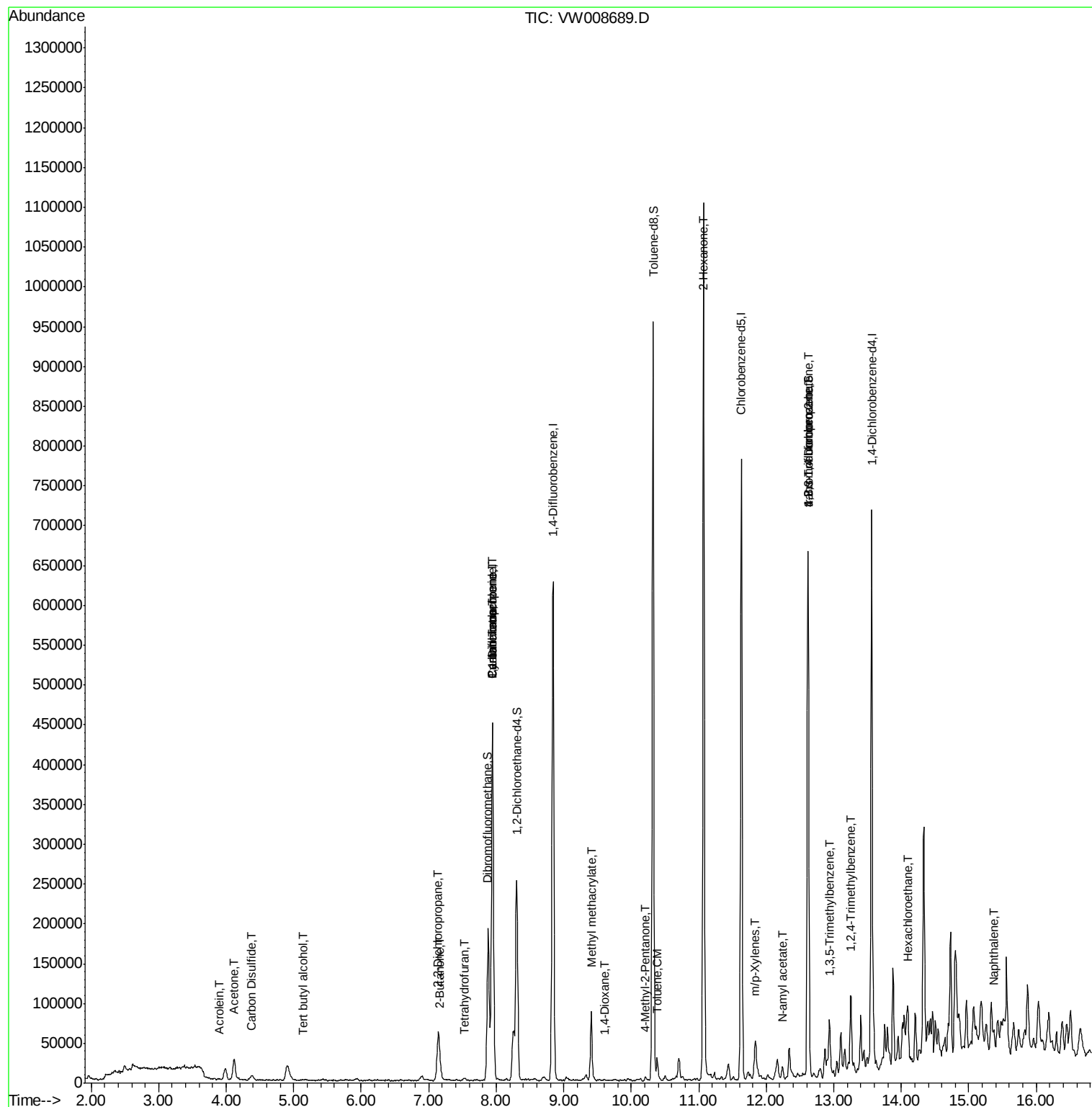
					Qvalue	
11) Tert butyl alcohol	5.15	59	803	2.807	ug/l #	34
13) Acrolein	3.90	56	605	2.052	ug/l #	14
16) Acetone	4.12	43	46023	56.556	ug/l	99
17) Carbon Disulfide	4.37	76	11030	1.088	ug/l	96
20) Methylene Chloride	4.90	84	16044	Below Cal	#	88
25) 2-Butanone	7.17	43	9657	8.404	ug/l	93
26) 2,2-Dichloropropane	7.15	77	4885	1.207	ug/l #	53
29) Tetrahydrofuran	7.52	42	1186	1.566	ug/l #	36
31) Cyclohexane	7.94	56	8740	1.336	ug/l #	37
36) 1,1-Dichloropropene	7.94	75	25307	4.782	ug/l #	51
38) Carbon Tetrachloride	7.95	117	32722	6.217	ug/l #	18
48) Methyl methacrylate	9.41	41	22252	9.432	ug/l #	45
49) 1,4-Dioxane	9.62	88	46	1.462	ug/l #	22
51) 4-Methyl-2-Pentanone	10.21	43	3125	1.195	ug/l	91
52) Toluene	10.38	92	11230	1.204	ug/l	99
59) 2-Hexanone	11.07	43	179034	97.453	ug/l #	49
68) m/p-Xylenes	11.84	106	10865	1.689	ug/l	98
74) N-amyl acetate	12.24	43	8945	2.519	ug/l #	56
76) 1,2,3-Trichloropropane	12.62	75	99495	57.164	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	12736	1.168	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.62	75	99495	122.204	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.26	105	53644	4.786	ug/l	99
90) Hexachloroethane	14.10	117	3221	1.495	ug/l #	11
95) Naphthalene	15.37	128	16847	2.436	ug/l	98

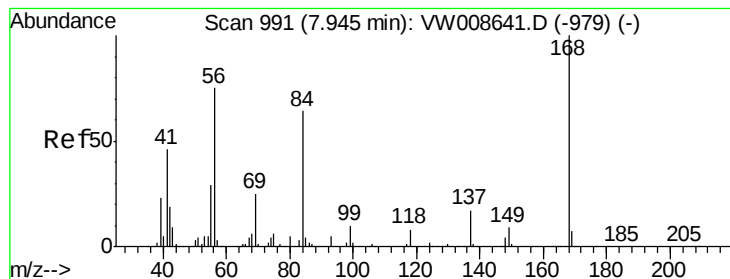
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW021519\
Data File : VW008689.D
Acq On : 15 Feb 2019 17:18
Operator : SY/VA
Sample : K1358-03
Misc : 6.59G/5ML/MSVOA W/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Feb 16 00:35:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 04:06:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

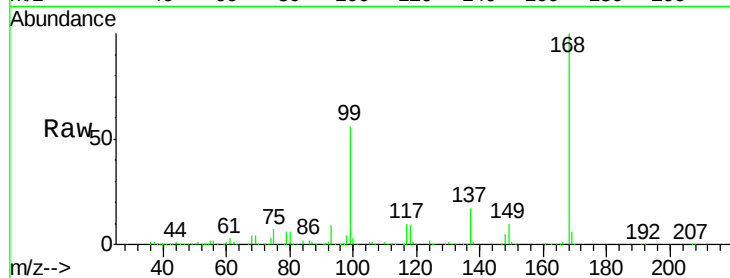
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 343973

Ion Ratio Lower Upper

168 100

99 55.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

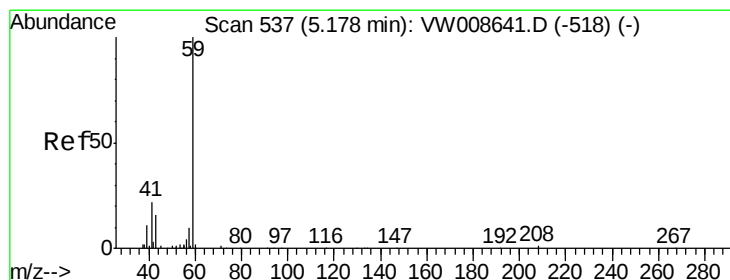
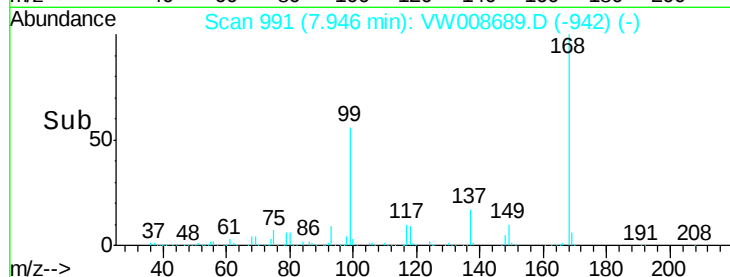
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#11

Tert butyl alcohol

Concen: 2.807 ug/l

RT: 5.15 min Scan# 532

Delta R.T. -0.03 min

Lab File: VW008689.D

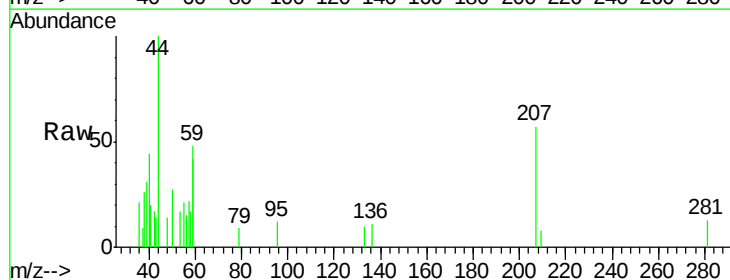
Acq: 15 Feb 2019 17:18

Tgt Ion: 59 Resp: 803

Ion Ratio Lower Upper

59 100

57 35.1 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.15

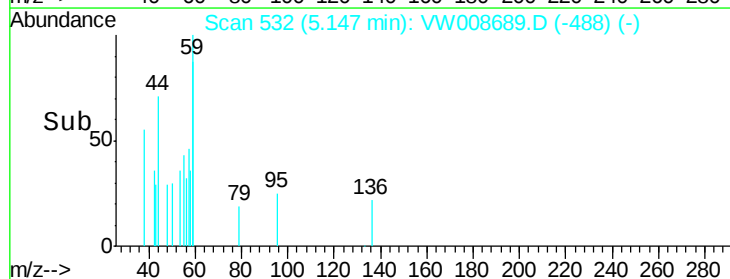
600

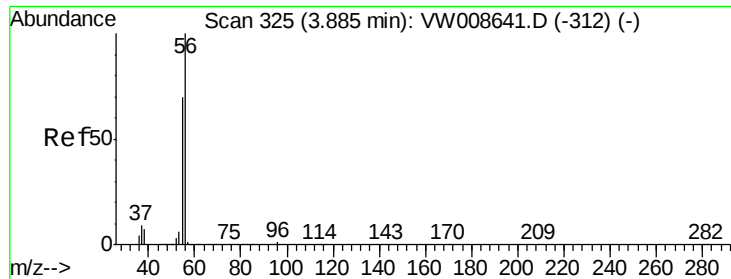
400

200

0

Time--> 5.10 5.15





#13

Acrolein

Concen: 2.052 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Instrument :

MSVOA_W

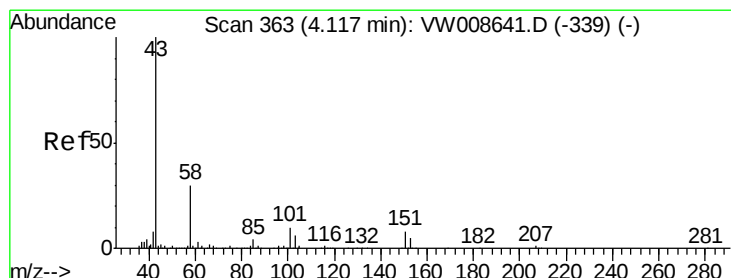
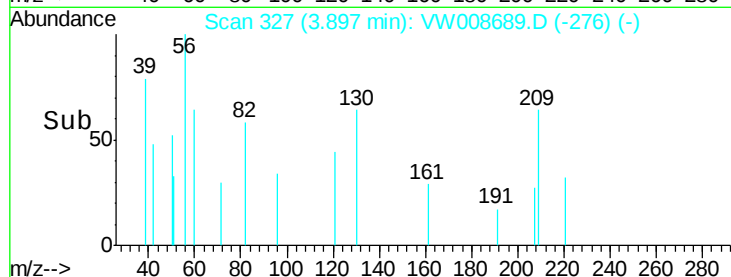
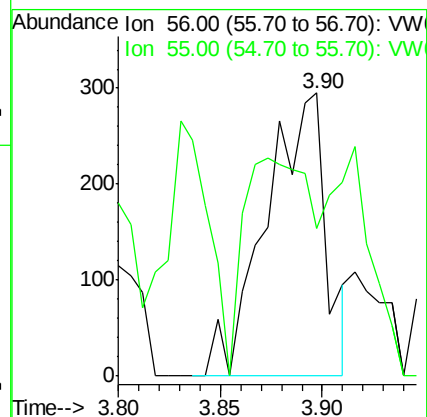
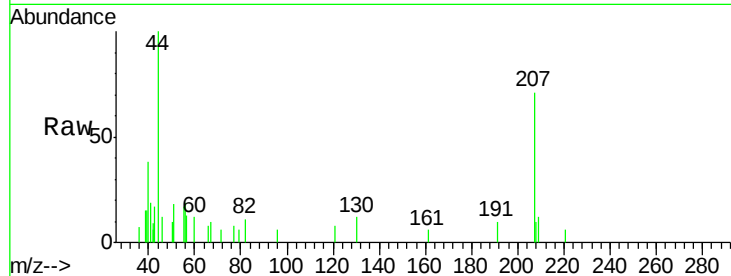
ClientSampled :

Tot Ion: 56 Resp: 605

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.2#



#16

Acetone

Concen: 56.556 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008689.D

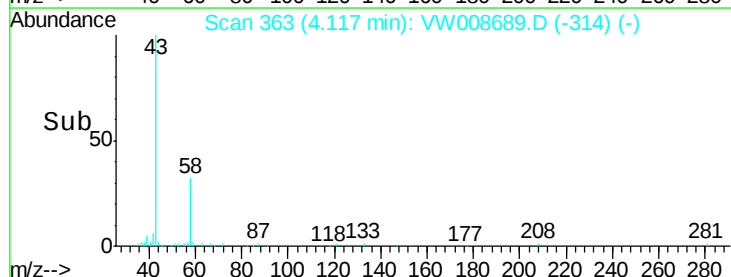
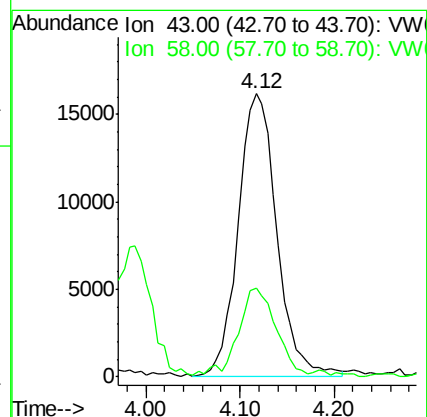
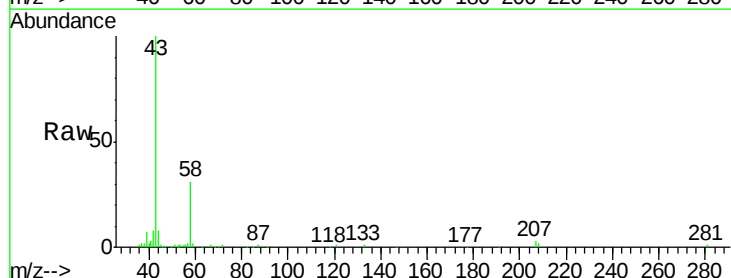
Acq: 15 Feb 2019 17:18

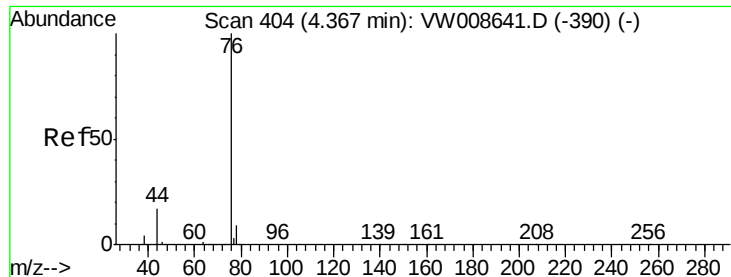
Tgt Ion: 43 Resp: 46023

Ion Ratio Lower Upper

43 100

58 30.7 24.1 36.1





#17

Carbon Disulfide

Concen: 1.088 ug/l

RT: 4.37 min Scan# 405

Delta R.T. 0.01 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

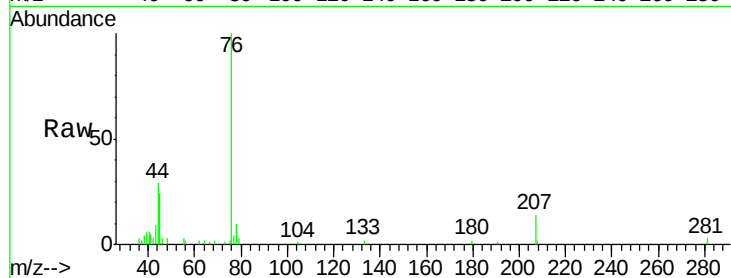
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 76 Resp: 11030

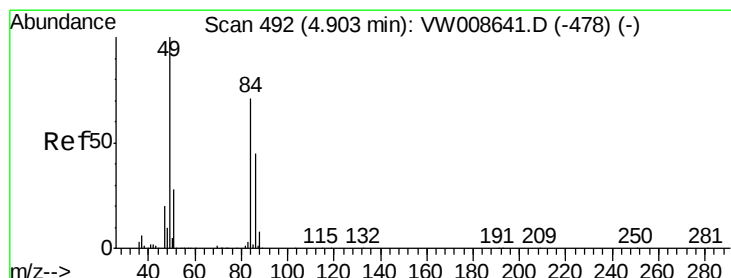
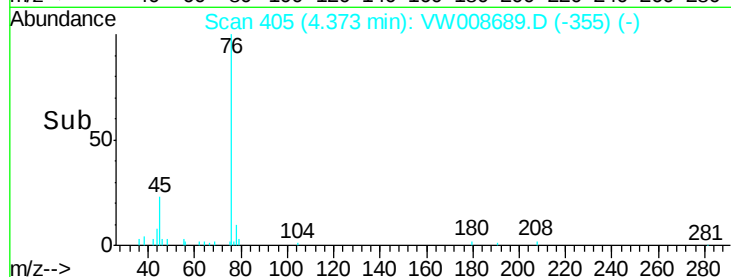
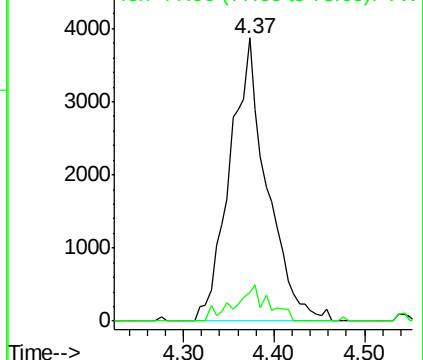
Ion Ratio Lower Upper

76 100

78 10.3 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW
Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: Below Cal

RT: 4.90 min Scan# 492

Delta R.T. 0.00 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Tgt Ion: 84 Resp: 16044

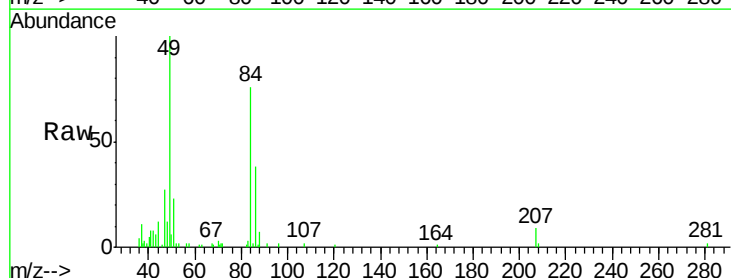
Ion Ratio Lower Upper

84 100

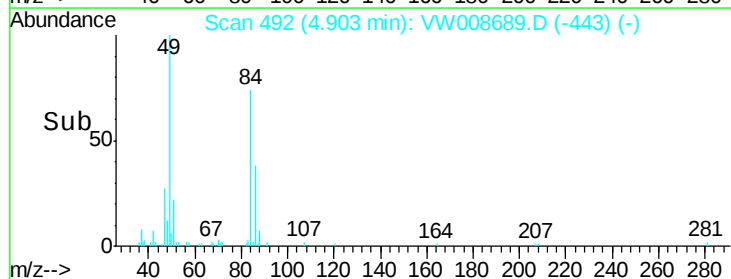
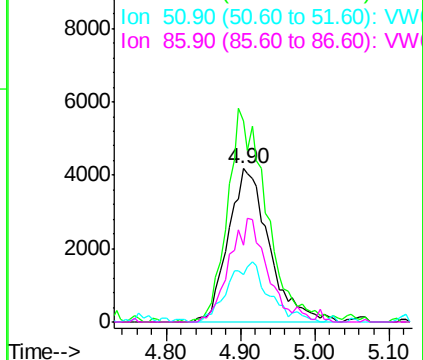
49 131.5 113.3 169.9

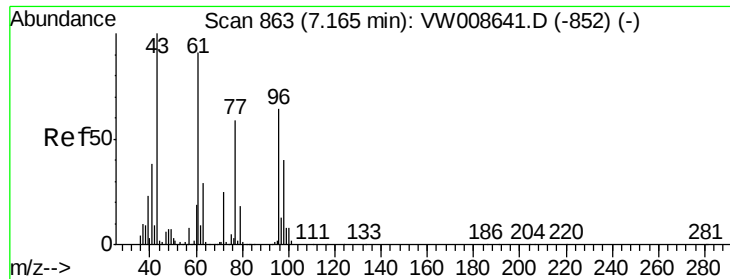
51 30.8 32.1 48.1#

86 50.2 50.9 76.3#



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: 8.404 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

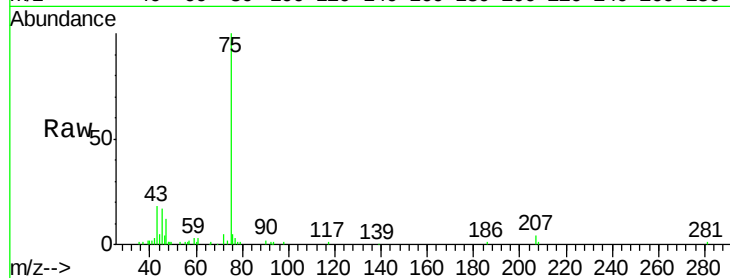
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 9657

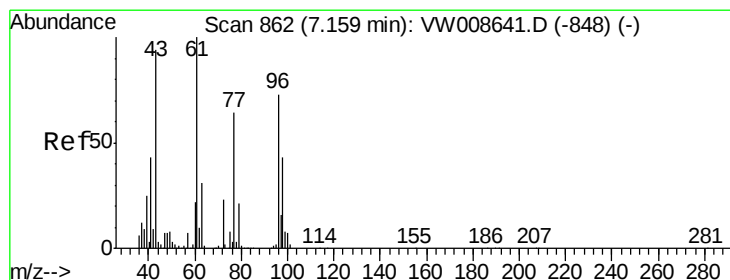
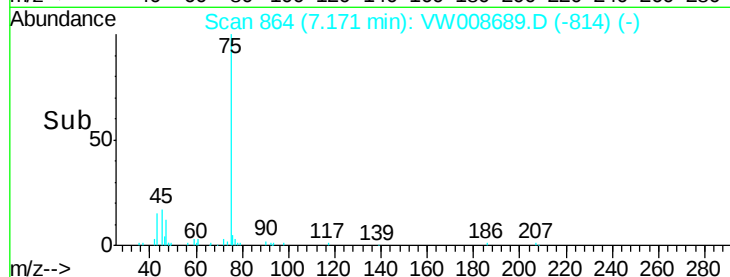
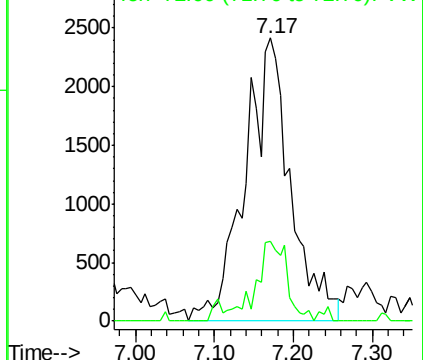
Ion Ratio Lower Upper

43 100

72 28.3 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.207 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW008689.D

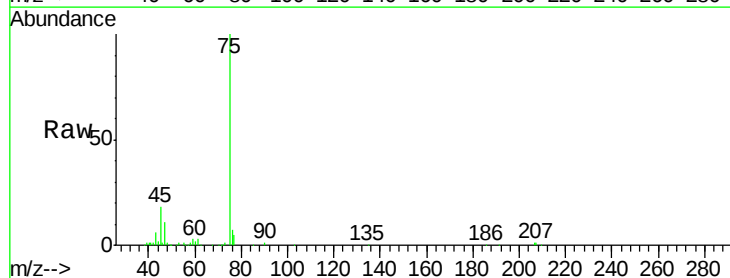
Acq: 15 Feb 2019 17:18

Tgt Ion: 77 Resp: 4885

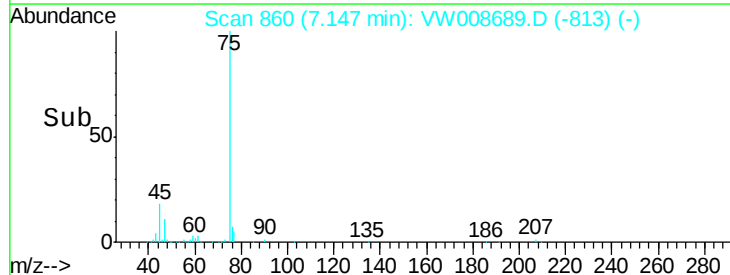
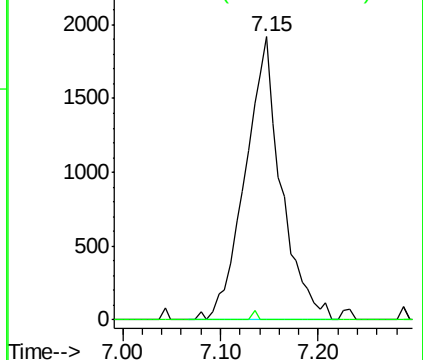
Ion Ratio Lower Upper

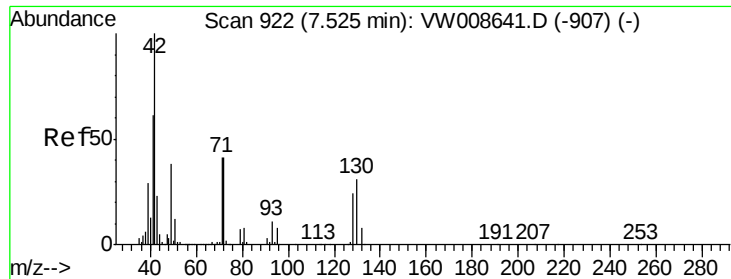
77 100

97 0.5 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VW
Ion 96.90 (96.60 to 97.60): VW





#29

Tetrahydrofuran

Concen: 1.566 ug/l

RT: 7.52 min Scan# 922

Delta R.T. 0.00 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Instrument :

MSVOA_W

ClientSampled :

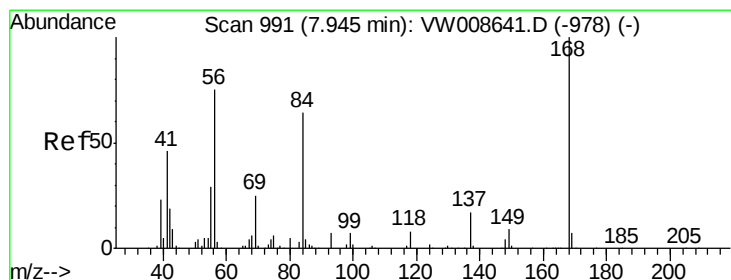
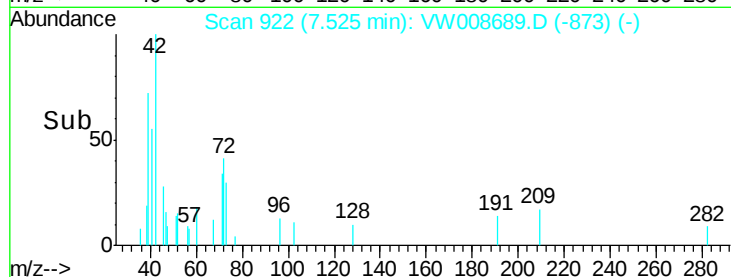
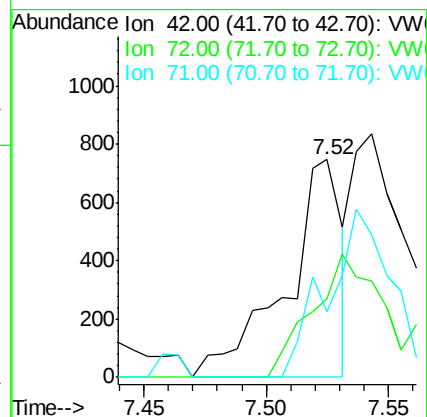
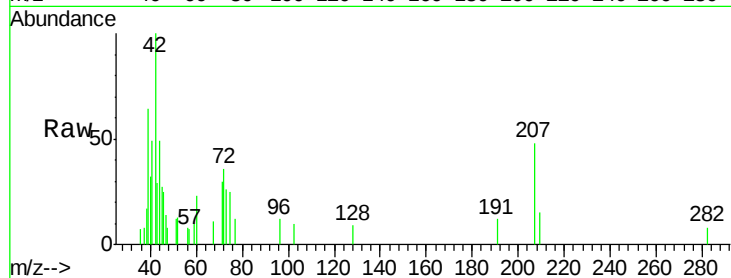
Tot Ion: 42 Resp: 1186

Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.2#

71 0.0 31.0 46.6#



#31

Cyclohexane

Concen: 1.336 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

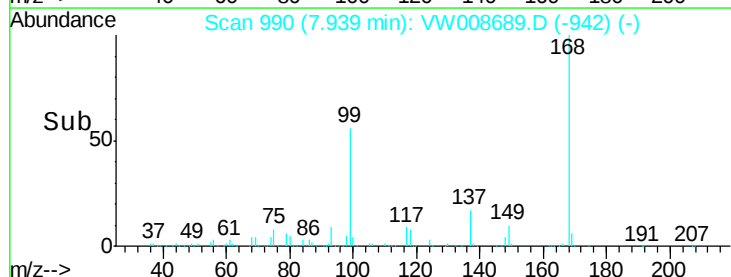
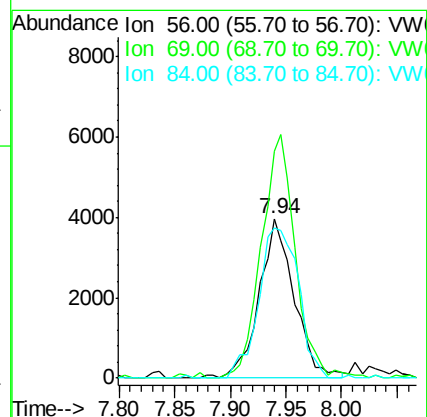
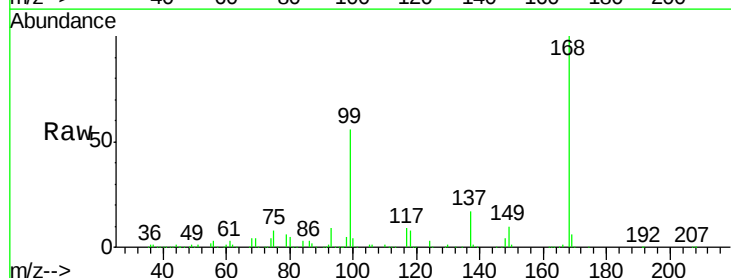
Tgt Ion: 56 Resp: 8740

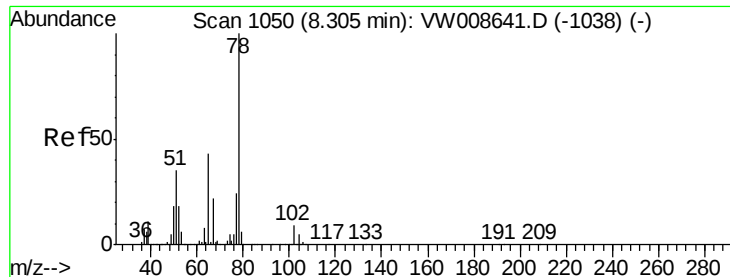
Ion Ratio Lower Upper

56 100

69 142.4 26.4 39.6#

84 94.5 67.4 101.2

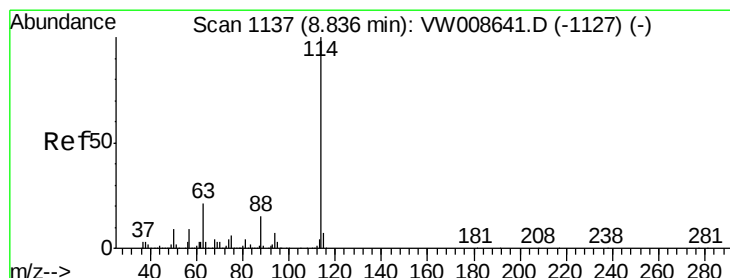
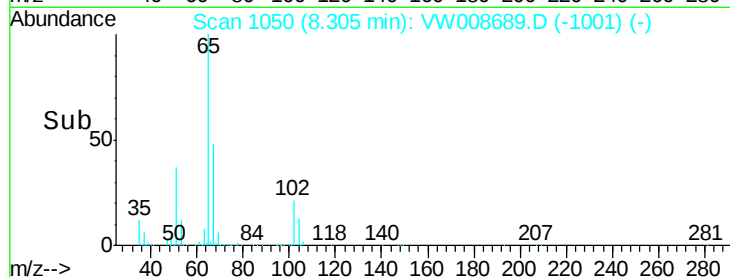
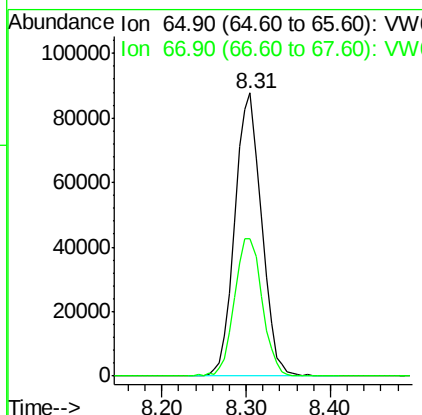
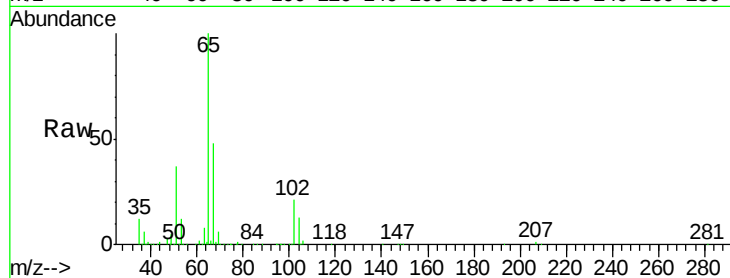




#33
 1,2-Dichloroethane-d4
 Concen: 52.416 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008689.D
 Acq: 15 Feb 2019 17:18

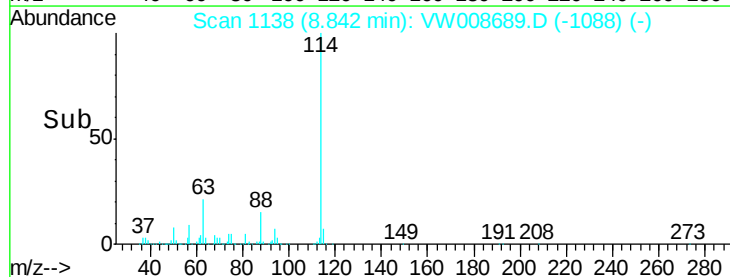
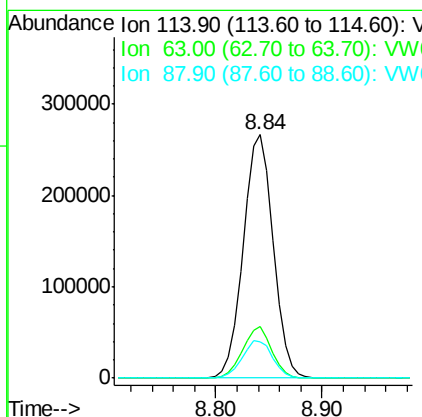
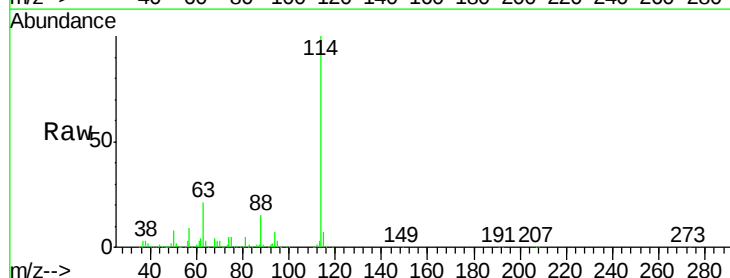
Instrument :
 MSVOA_W
 ClientSampleId :

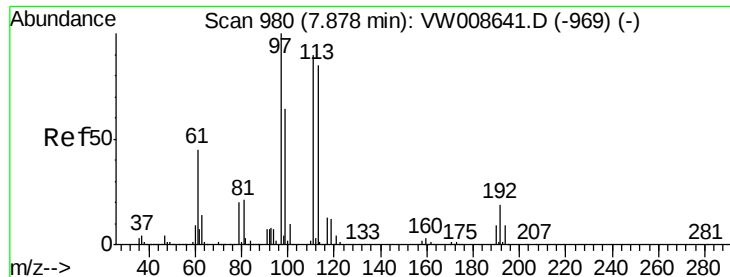
Tot Ion: 65 Resp: 187443
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.01 min
 Lab File: VW008689.D
 Acq: 15 Feb 2019 17:18

Tgt Ion: 114 Resp: 526803
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 41.2
 88 14.9 0.0 29.6

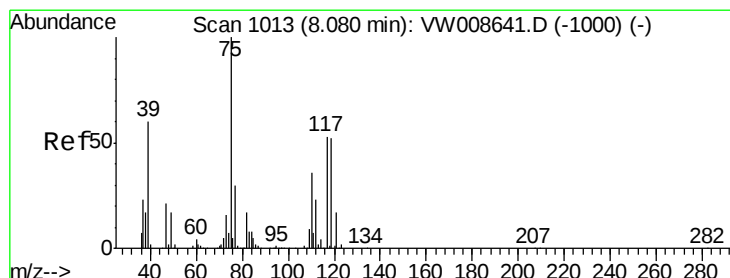
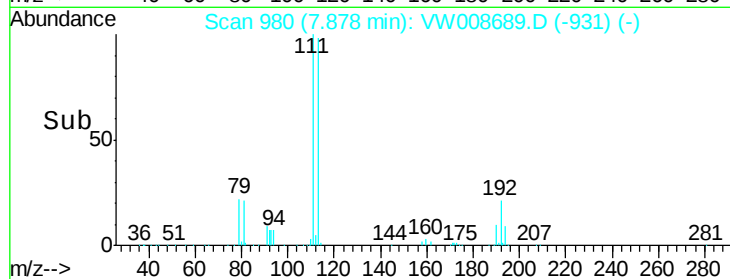
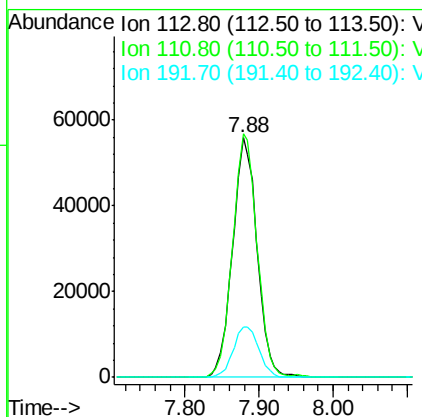
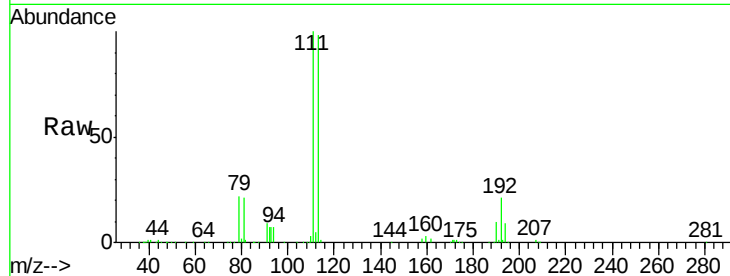




#35
 Dibromofluoromethane
 Concen: 39.365 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. 0.00 min
 Lab File: VW008689.D
 Acq: 15 Feb 2019 17:18

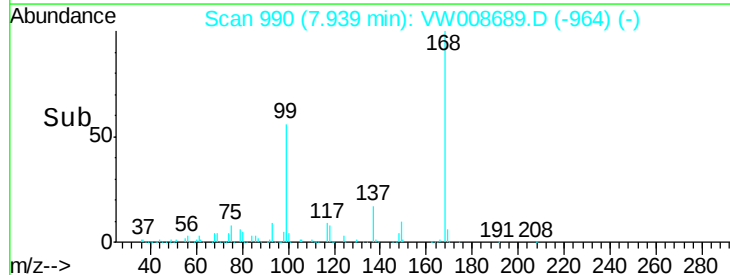
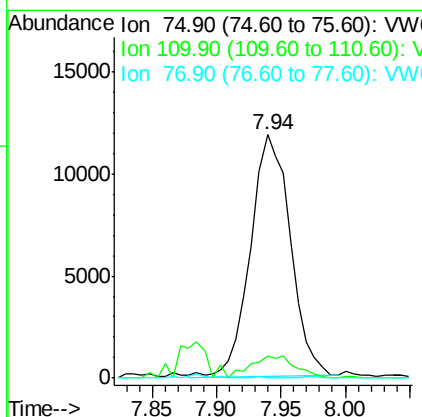
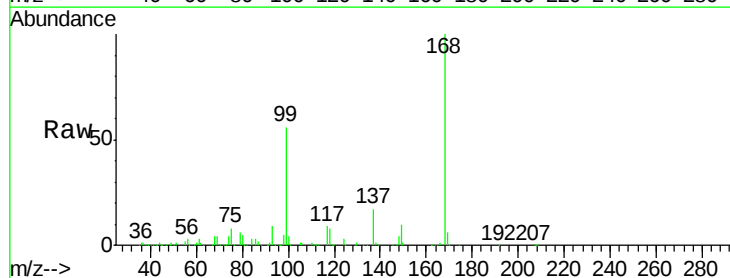
Instrument :
 MSVOA_W
 ClientSampleId :

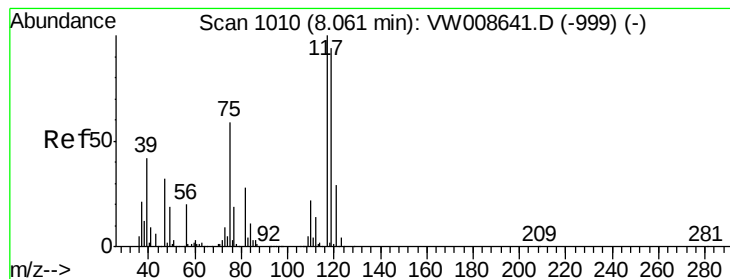
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	84.0	126.0
192	22.2	17.4	26.2



#36
 1,1-Dichloropropene
 Concen: 4.782 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW008689.D
 Acq: 15 Feb 2019 17:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	17.8	53.3#
77	0.1	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.217 ug/l

RT: 7.95 min Scan# 991

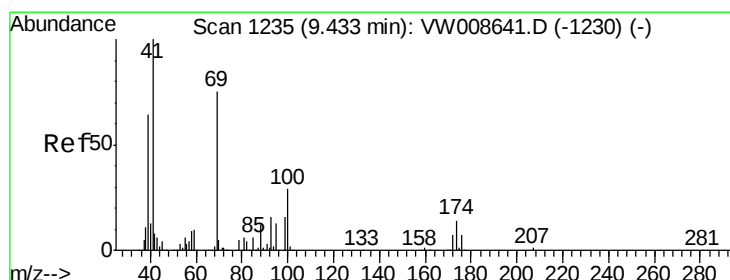
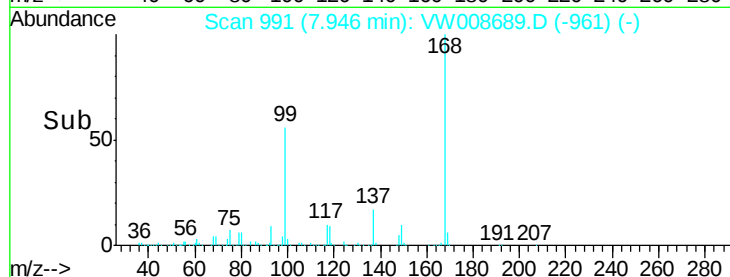
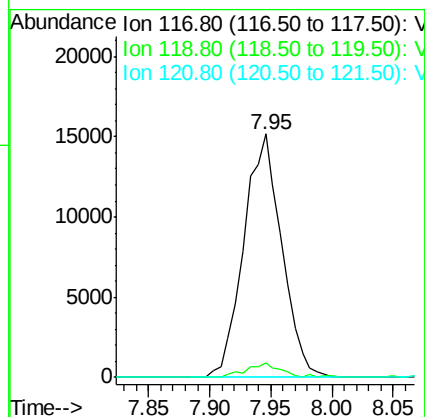
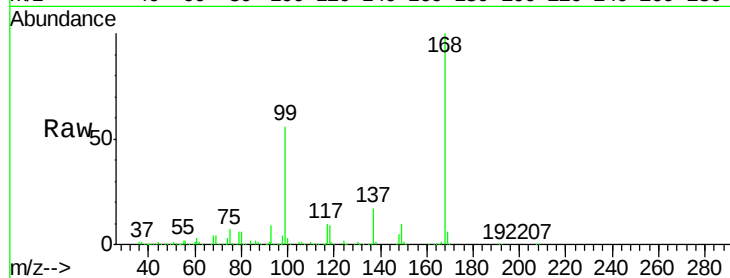
Delta R.T. -0.12 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 32722
Ion Ratio Lower Upper
117 100
119 6.0 75.1 112.7#
121 0.0 23.5 35.3#



#48

Methyl methacrylate

Concen: 9.432 ug/l

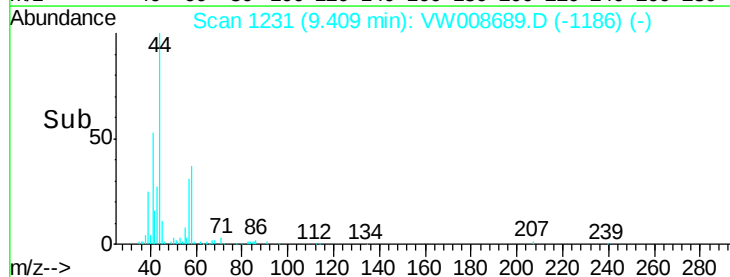
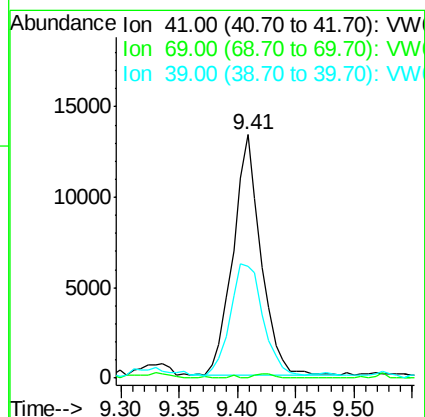
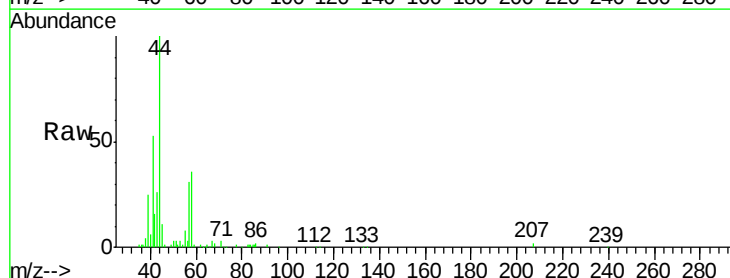
RT: 9.41 min Scan# 1231

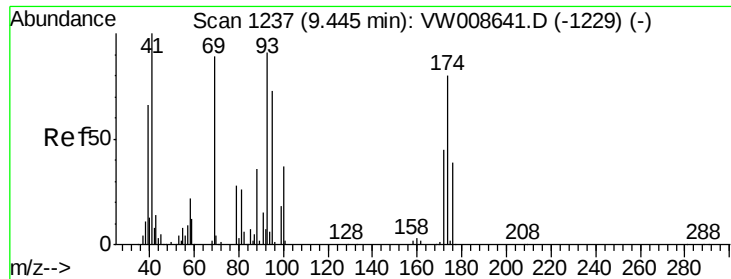
Delta R.T. -0.02 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Tgt Ion: 41 Resp: 22252
Ion Ratio Lower Upper
41 100
69 0.3 64.1 96.1#
39 55.9 52.3 78.5

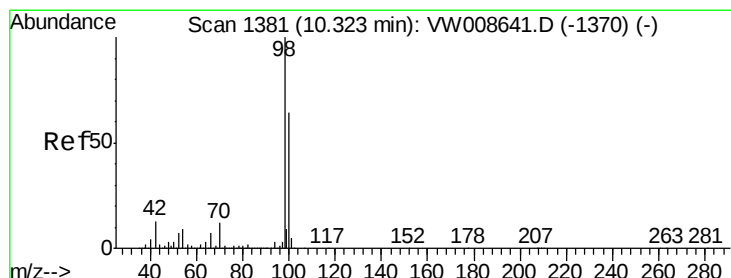
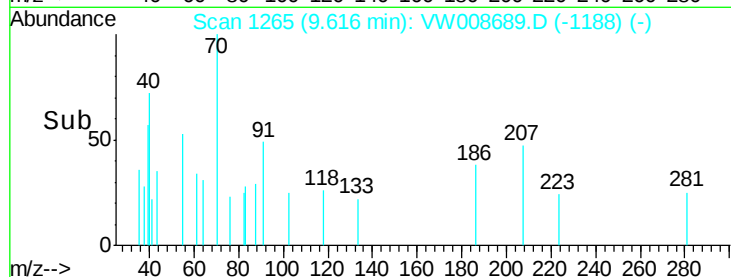
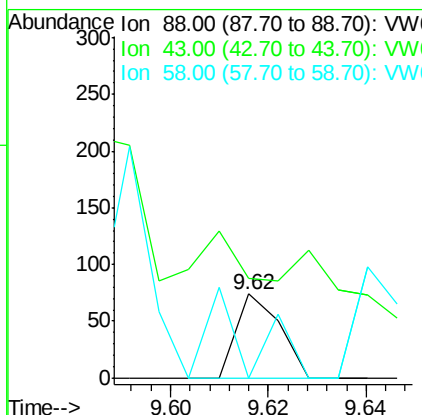
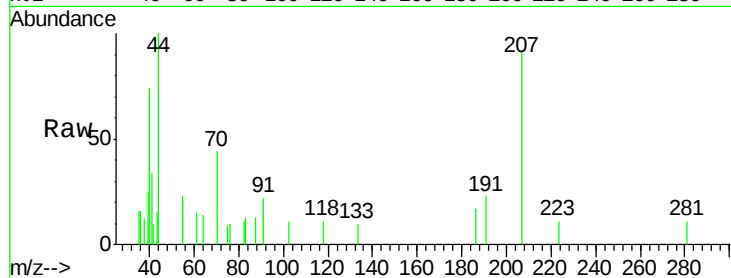




#49
1,4-Dioxane
Concen: 1.462 ug/l
RT: 9.62 min Scan# 1265
Delta R.T. 0.17 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

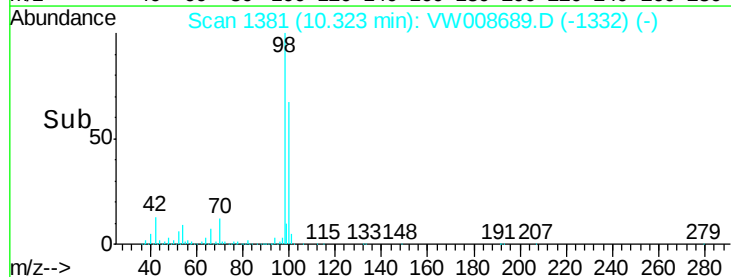
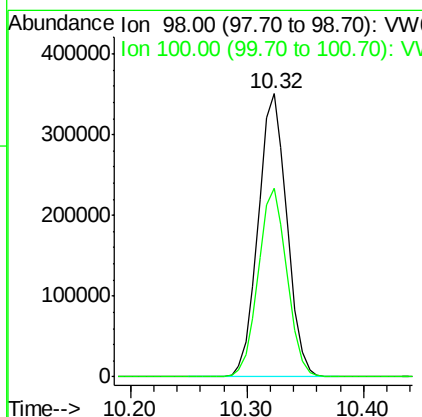
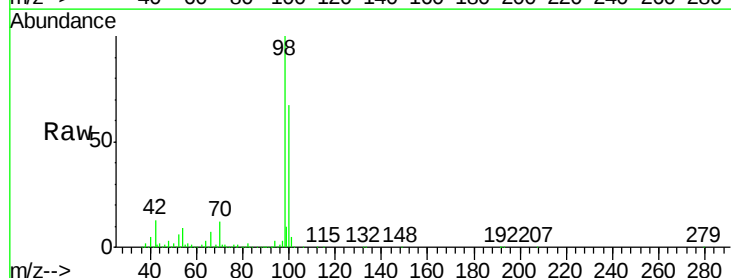
Instrument :
MSVOA_W
ClientSampled :

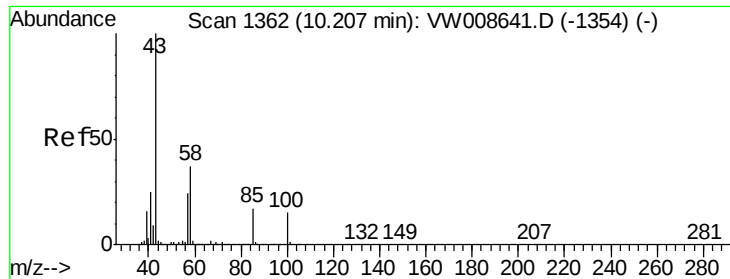
Tot Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 0.0 31.0 46.6#
58 0.0 57.0 85.6#



#50
Toluene-d8
Concen: 47.865 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

Tgt Ion: 98 Resp: 603562
Ion Ratio Lower Upper
98 100
100 66.5 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 1.195 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Instrument :

MSVOA_W

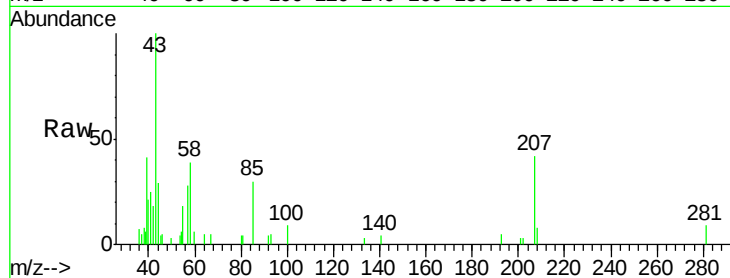
ClientSampleId :

Tot Ion: 43 Resp: 3125

Ion Ratio Lower Upper

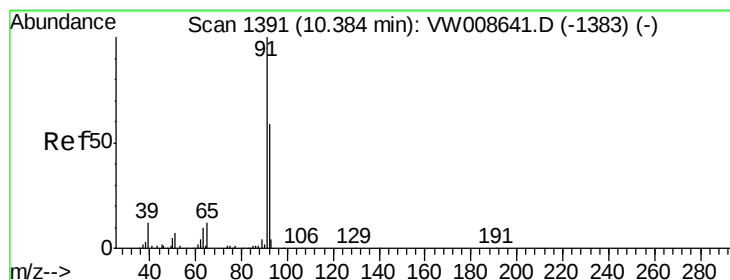
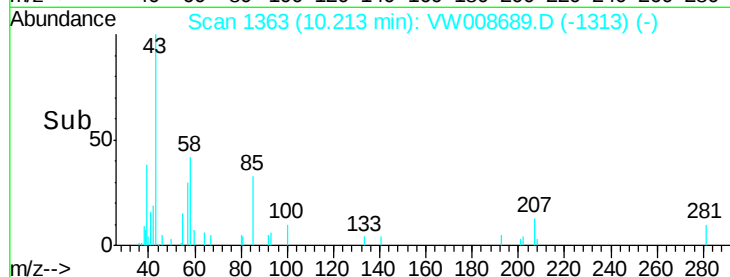
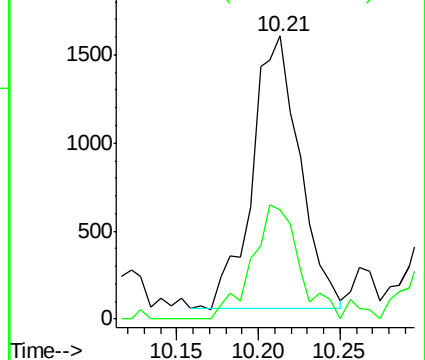
43 100

58 41.4 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 1.204 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW008689.D

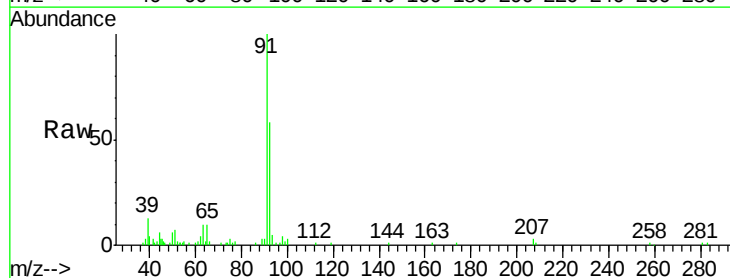
Acq: 15 Feb 2019 17:18

Tgt Ion: 92 Resp: 11230

Ion Ratio Lower Upper

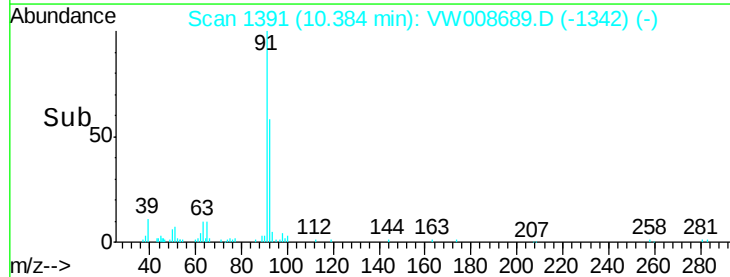
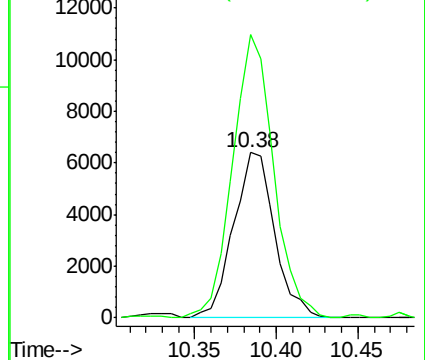
92 100

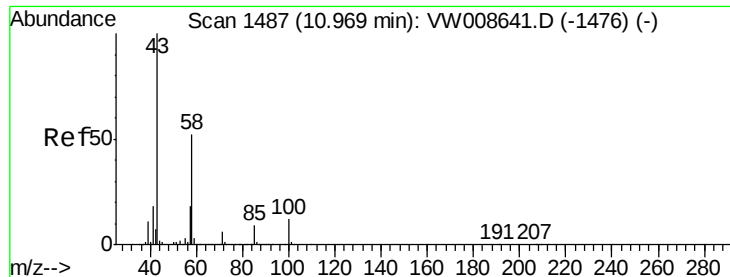
91 170.8 135.8 203.6



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

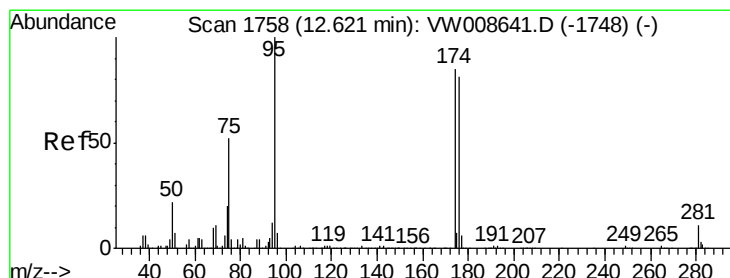
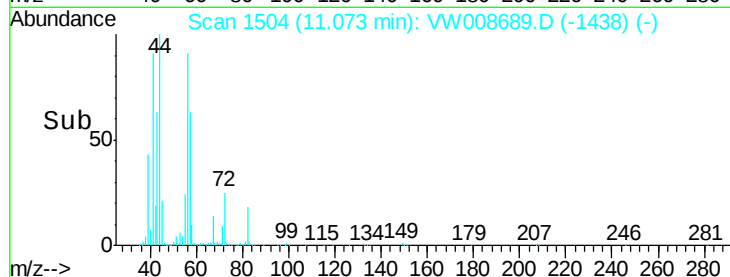
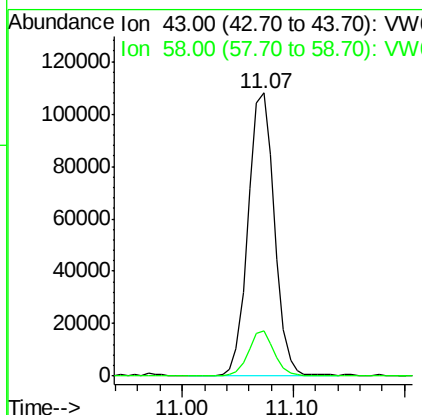
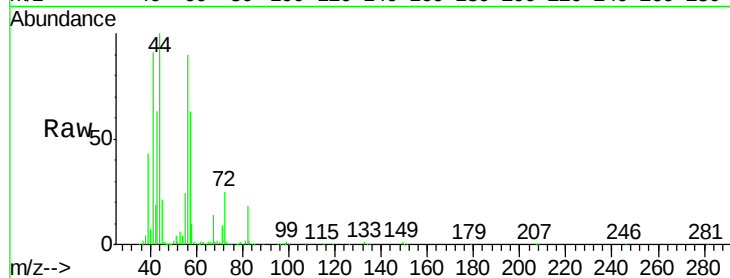




#59
2-Hexanone
Concen: 97.453 ug/l
RT: 11.07 min Scan# 1504
Delta R.T. 0.10 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

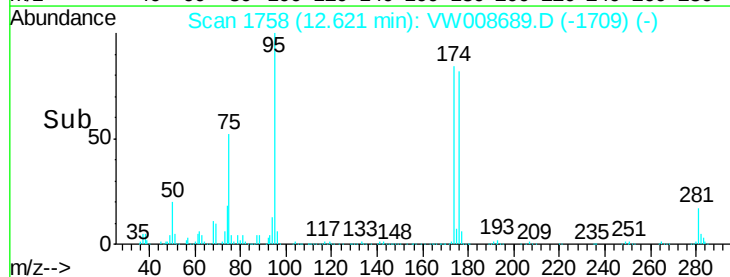
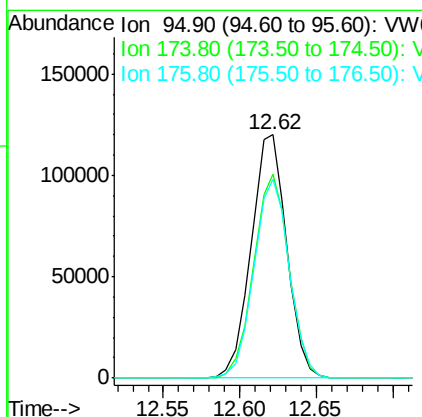
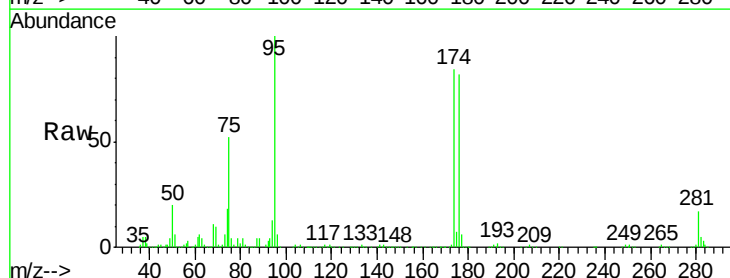
Instrument :
MSVOA_W
ClientSampled :

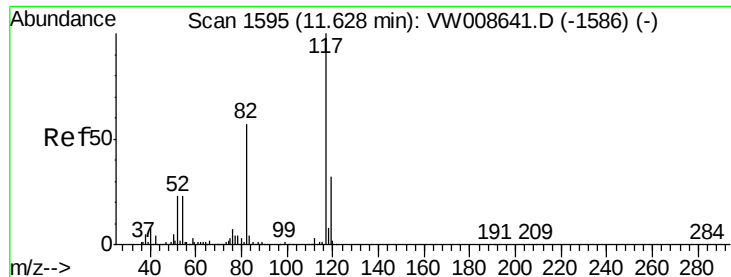
Tot Ion: 43 Resp: 179034
Ion Ratio Lower Upper
43 100
58 15.8 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 40.635 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

Tgt Ion: 95 Resp: 193003
Ion Ratio Lower Upper
95 100
174 83.8 0.0 163.2
176 82.0 0.0 158.0

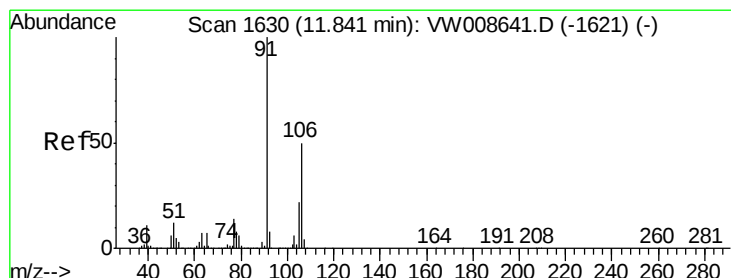
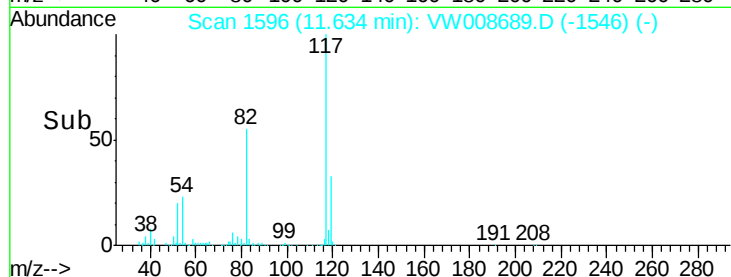
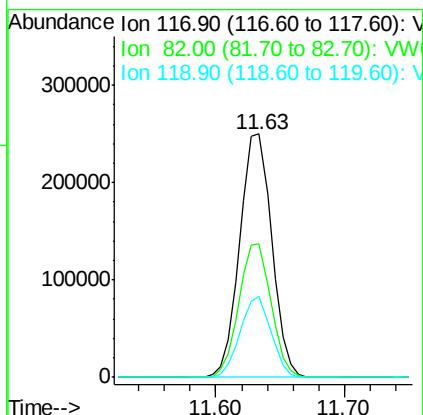
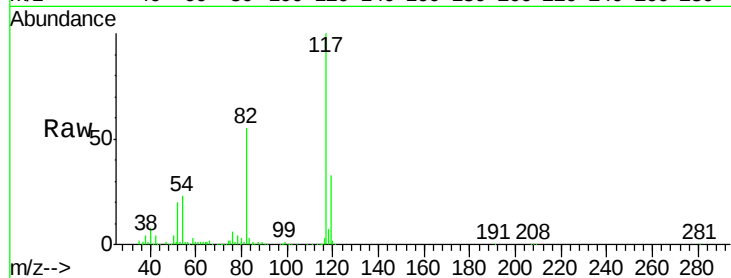




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

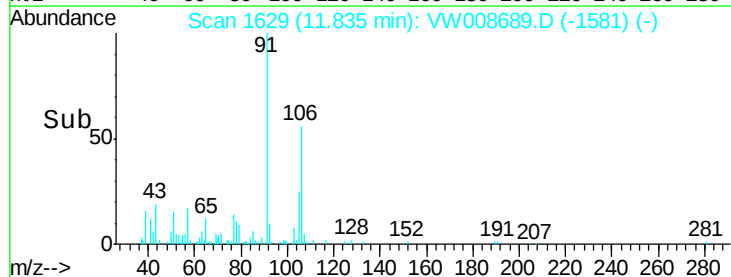
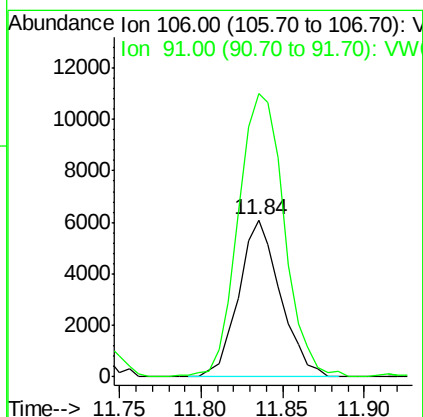
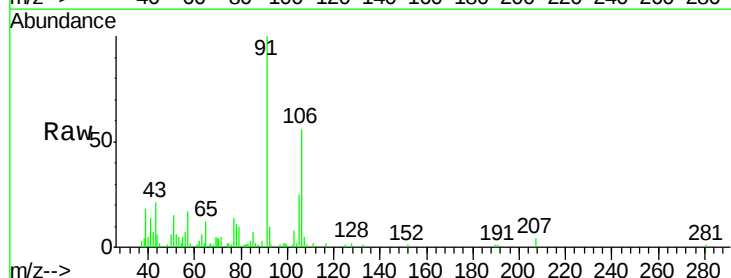
Instrument :
MSVOA_W
ClientSampleId :

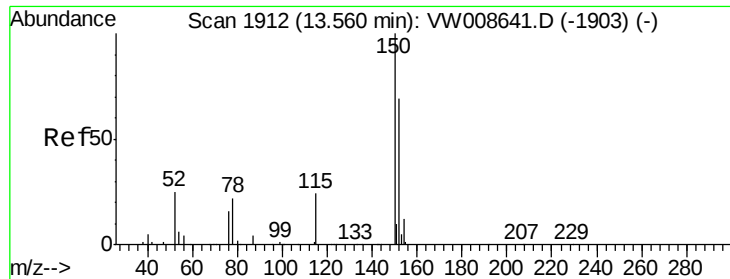
Tot Ion:117 Resp: 430698
Ion Ratio Lower Upper
117 100
82 54.7 45.6 68.4
119 33.1 25.7 38.5



#68
m/p-Xylenes
Concen: 1.689 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

Tgt Ion:106 Resp: 10865
Ion Ratio Lower Upper
106 100
91 198.8 161.0 241.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Instrument :

MSVOA_W

ClientSampleId :

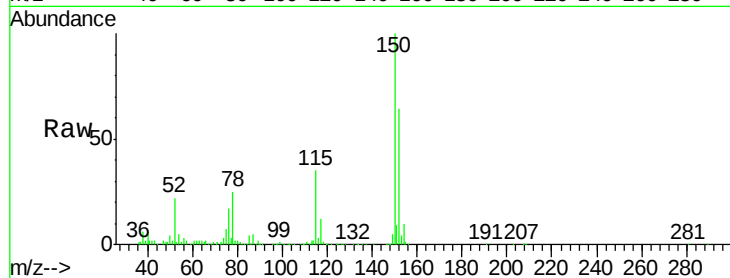
Tot Ion:152 Resp: 176263

Ion Ratio Lower Upper

152 100

115 57.8 29.3 87.8

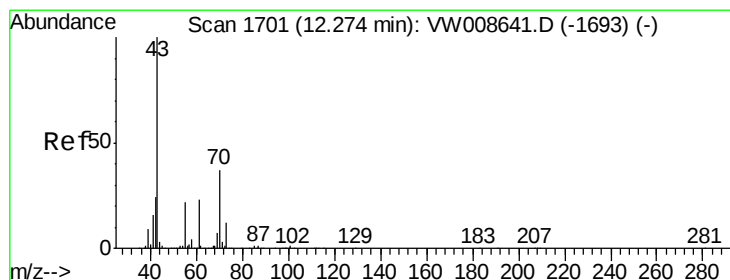
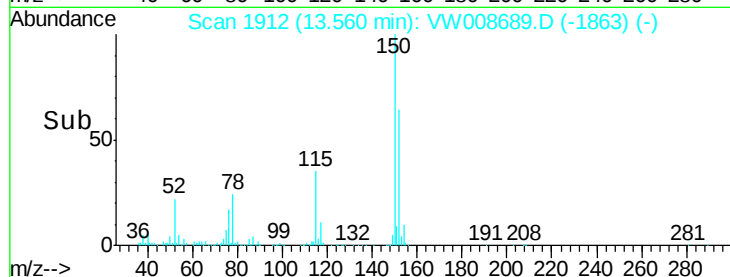
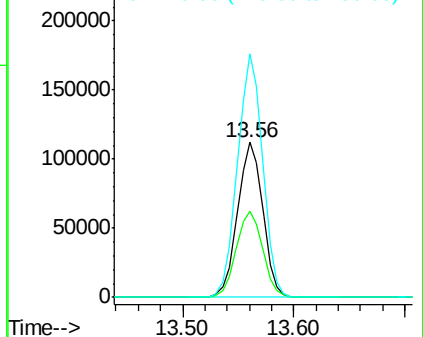
150 155.9 0.0 352.8



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



#74

N-ethyl acetate

Concen: 2.519 ug/l

RT: 12.24 min Scan# 1695

Delta R.T. -0.04 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Tgt Ion: 43 Resp: 8945

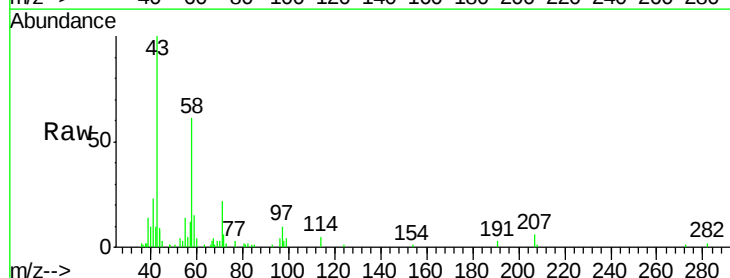
Ion Ratio Lower Upper

43 100

70 4.7 30.5 45.7#

55 12.2 17.6 26.4#

61 0.0 17.9 26.9#

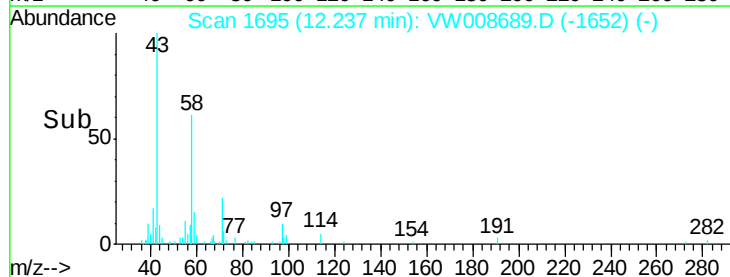
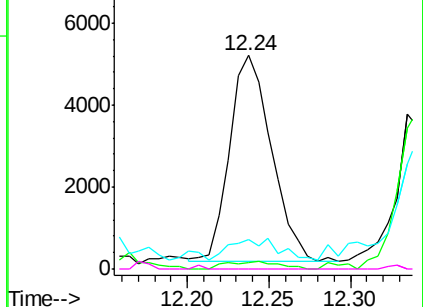


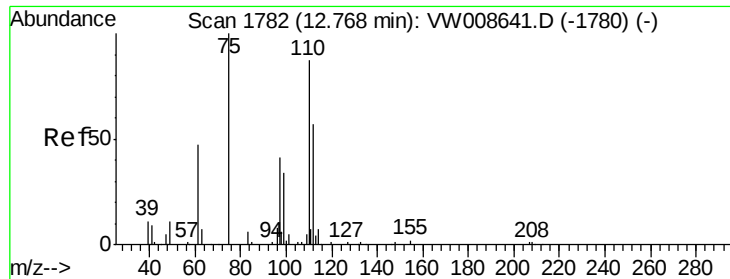
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 57.164 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Instrument :

MSVOA_W

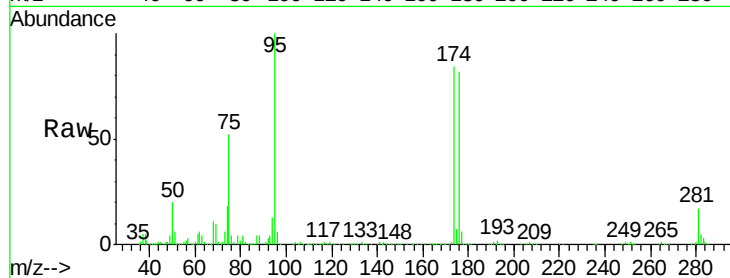
ClientSampleId :

Tot Ion: 75 Resp: 99495

Ion Ratio Lower Upper

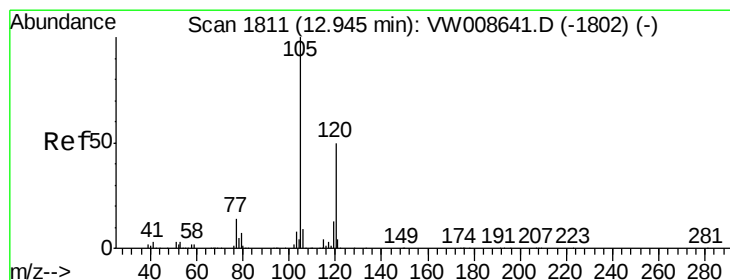
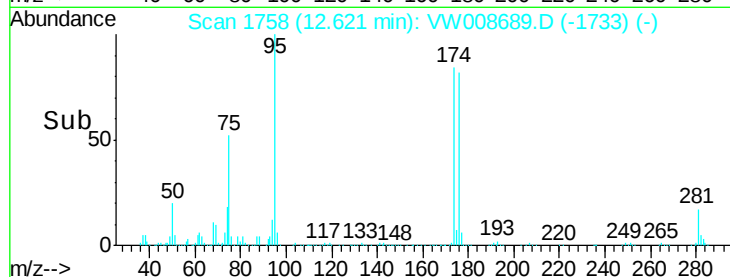
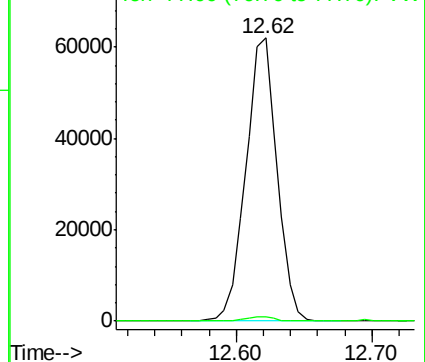
75 100

77 1.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#80

1,3,5-Trimethylbenzene

Concen: 1.168 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008689.D

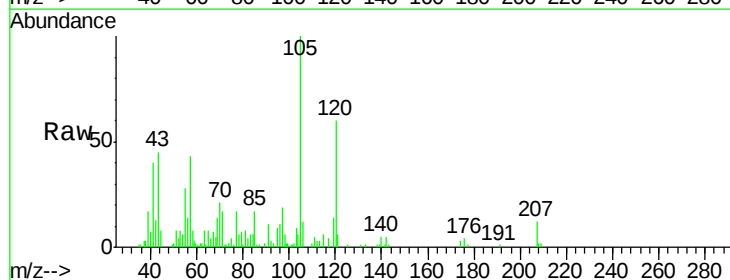
Acq: 15 Feb 2019 17:18

Tgt Ion: 105 Resp: 12736

Ion Ratio Lower Upper

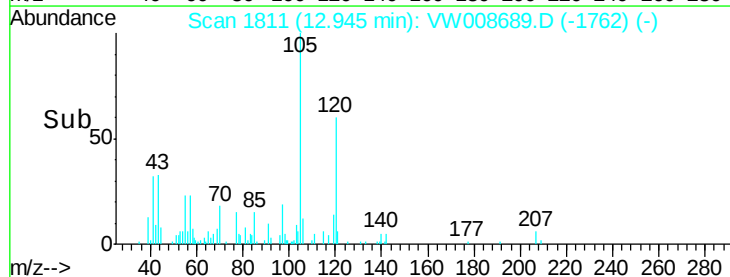
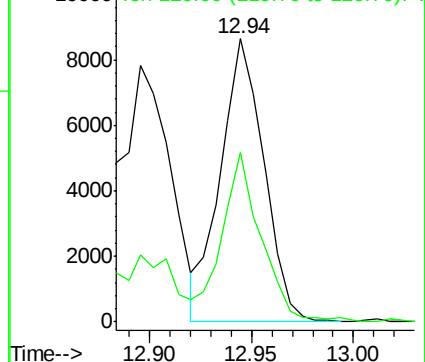
105 100

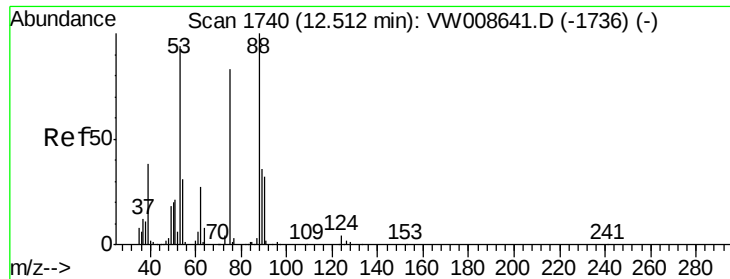
120 54.0 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

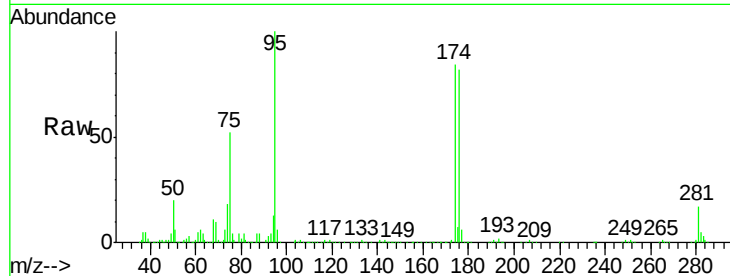




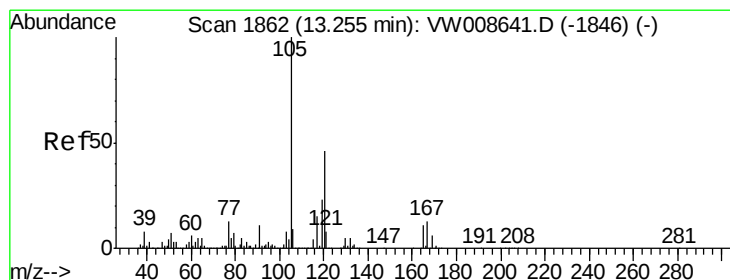
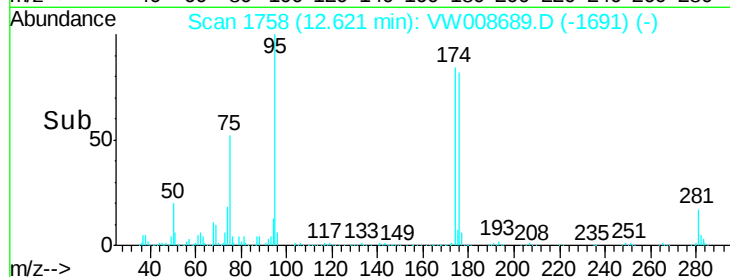
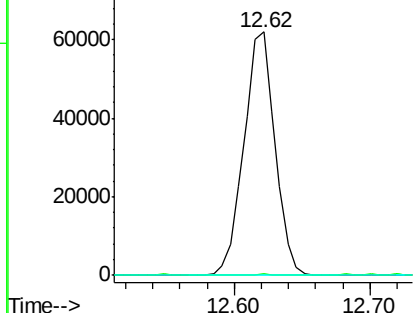
#81
trans-1,4-Dichloro-2-butene
Concen: 122.204 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 75 Resp: 99495
Ion Ratio Lower Upper
75 100
53 0.2 87.4 131.0#
89 0.2 37.0 55.4#

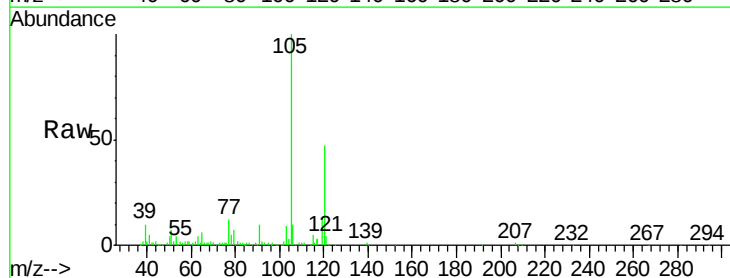


Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW

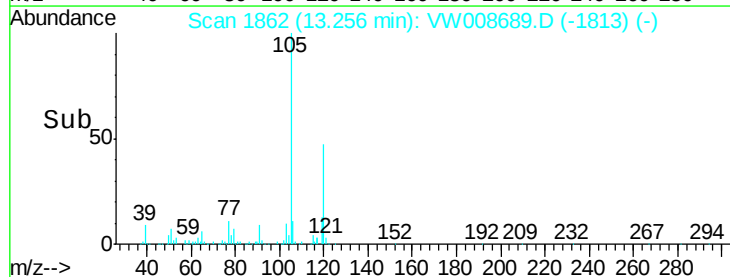
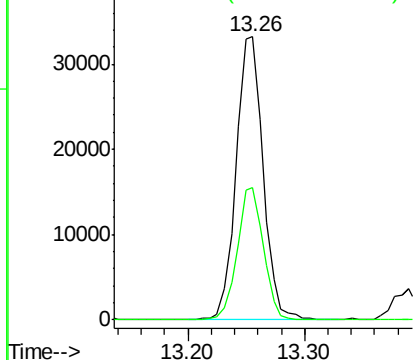


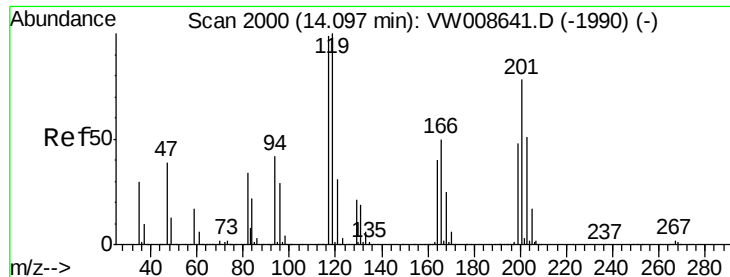
#84
1,2,4-Trimethylbenzene
Concen: 4.786 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW008689.D
Acq: 15 Feb 2019 17:18

Tgt Ion:105 Resp: 53644
Ion Ratio Lower Upper
105 100
120 45.2 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.495 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. 0.01 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

Instrument :

MSVOA_W

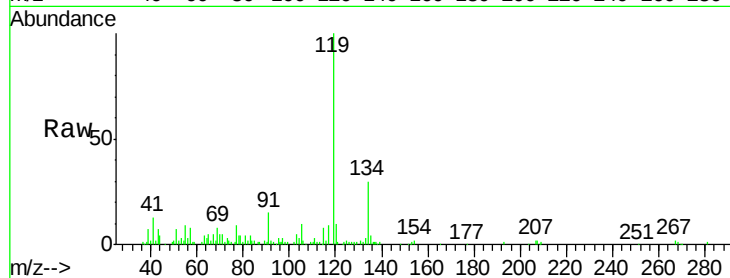
ClientSampleId :

Tot Ion:117 Resp: 3221

Ion Ratio Lower Upper

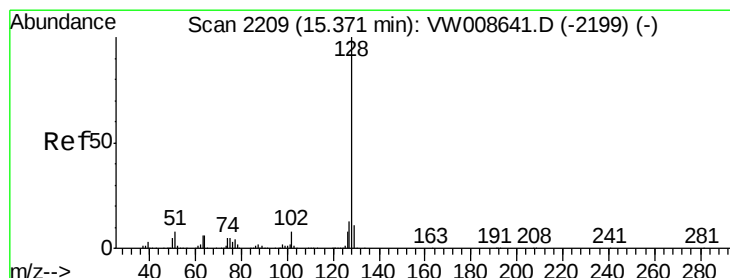
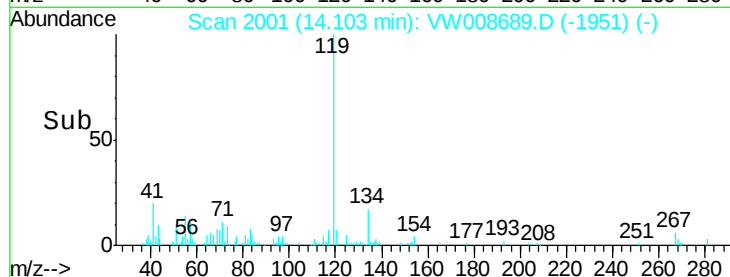
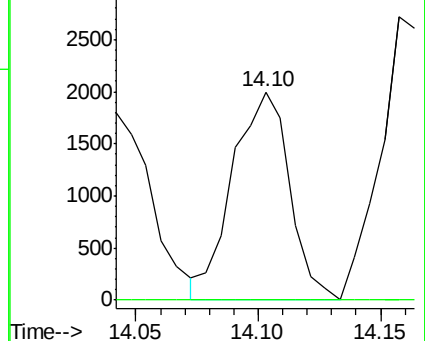
117 100

201 0.0 38.7 116.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 2.436 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008689.D

Acq: 15 Feb 2019 17:18

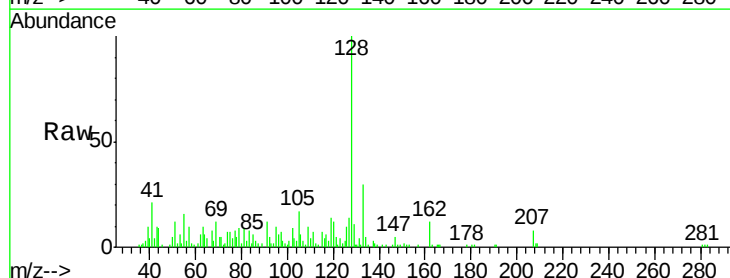
Tgt Ion:128 Resp: 16847

Ion Ratio Lower Upper

128 100

127 14.4 10.9 16.3

129 10.2 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

