

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW060319\
 Data File : VW010666.D
 Acq On : 03 Jun 2019 18:16
 Operator : SY/VA
 Sample : K3165-01
 Misc : 5.01G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 04 07:39:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	165594	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	291406	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	258324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	116724	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	85559	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	
35) Dibromofluoromethane	7.88	113	88873	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
50) Toluene-d8	10.32	98	350576	51.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.80%	
62) 4-Bromofluorobenzene	12.62	95	130011	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	

Target Compounds

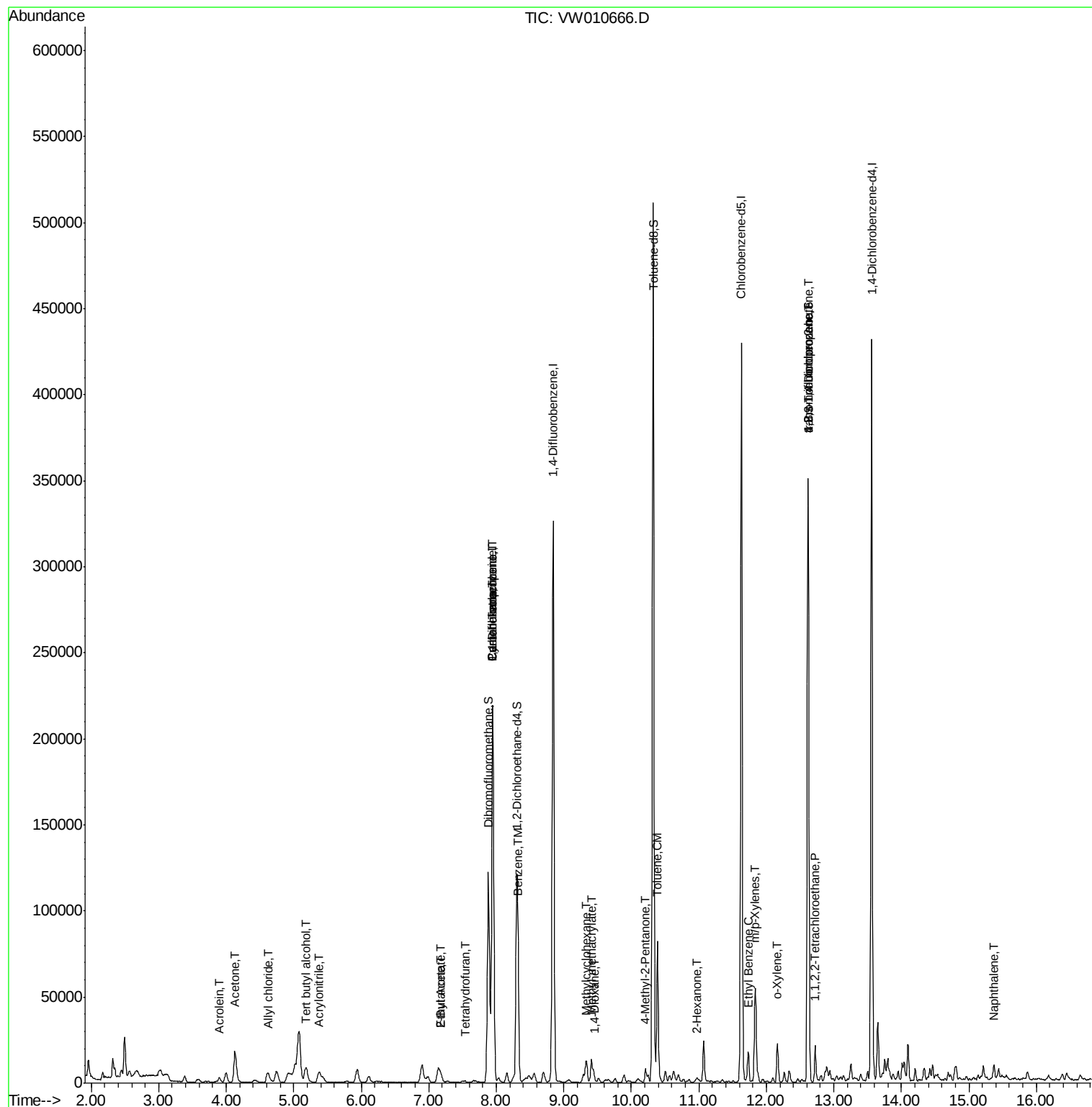
					Qvalue
2) Dichlorodifluoromethane	1.99	85	278	Below Cal	88
11) Tert butyl alcohol	5.18	59	18425	119.843 ug/l	95
13) Acrolein	3.90	56	3433	17.579 ug/l	92
14) Allyl chloride	4.62	41	10447	4.126 ug/l #	30
15) Acrylonitrile	5.37	53	8434	21.352 ug/l	98
16) Acetone	4.13	43	32726	93.801 ug/l	98
20) Methylene Chloride	4.92	84	3586	Below Cal	88
25) 2-Butanone	7.18	43	7205	14.430 ug/l	98
29) Tetrahydrofuran	7.54	42	391	1.157 ug/l #	73
31) Cyclohexane	7.95	56	5289	1.630 ug/l #	30
36) 1,1-Dichloropropene	7.95	75	11857	4.368 ug/l #	49
37) Ethyl Acetate	7.18	43	7205	6.241 ug/l #	67
38) Carbon Tetrachloride	7.95	117	16626	5.678 ug/l #	16
39) Methylcyclohexane	9.34	83	5414	1.489 ug/l	91
40) Benzene	8.33	78	29754	3.944 ug/l	98
48) Methyl methacrylate	9.41	41	3321	3.148 ug/l #	31
49) 1,4-Dioxane	9.46	88	67	3.914 ug/l #	25
51) 4-Methyl-2-Pentanone	10.21	43	5697	4.875 ug/l	98
52) Toluene	10.39	92	36497	7.203 ug/l	98
59) 2-Hexanone	10.97	43	1770	2.123 ug/l	76
67) Ethyl Benzene	11.73	91	12086	1.243 ug/l	97
68) m/p-Xylenes	11.83	106	18166	4.765 ug/l	100
69) o-Xylene	12.16	106	6081	1.683 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.73	83	1869	1.109 ug/l #	37
76) 1,2,3-Trichloropropane	12.62	75	59942	50.592 ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	59942	105.586 ug/l #	14
95) Naphthalene	15.37	128	8085	1.528 ug/l	98

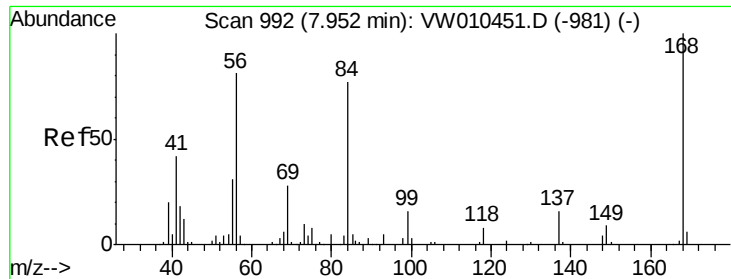
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW060319\
Data File : VW010666.D
Acq On : 03 Jun 2019 18:16
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Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Jun 04 07:39:52 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 06:38:43 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010666.D

Acq: 03 Jun 2019 18:16

Instrument :

MSVOA_W

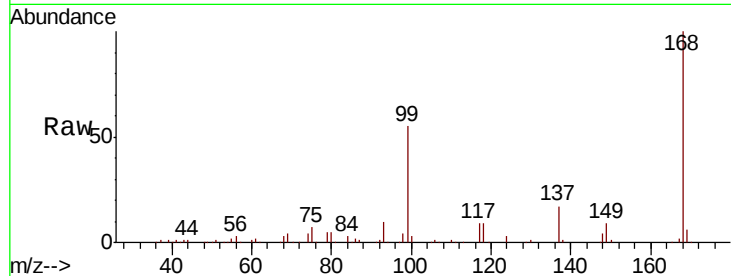
ClientSampleId :

Tot Ion:168 Resp: 165594

Ion Ratio Lower Upper

168 100

99 55.1 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

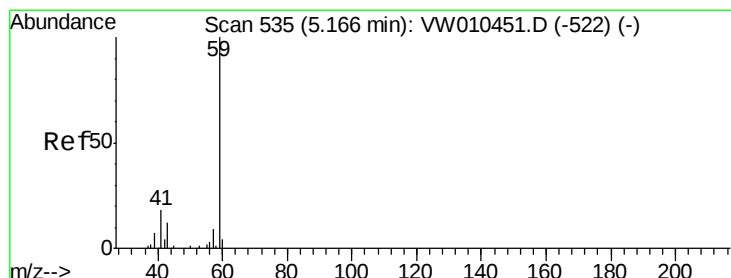
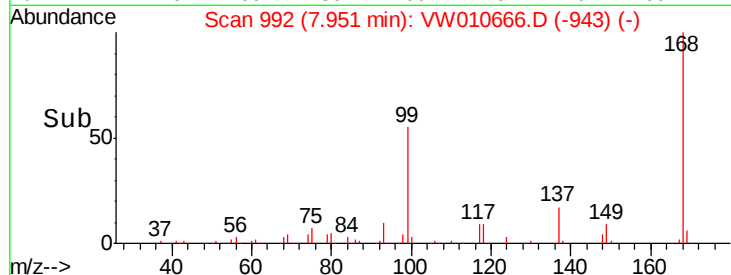
40000

20000

0

7.90 8.00

Time-->



#11

Tert butyl alcohol

Concen: 119.843 ug/l

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW010666.D

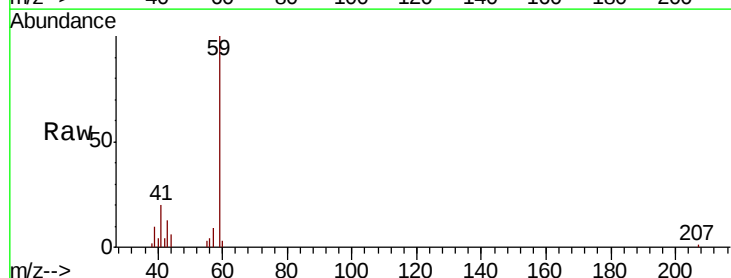
Acq: 03 Jun 2019 18:16

Tgt Ion: 59 Resp: 18425

Ion Ratio Lower Upper

59 100

57 9.0 8.8 13.2



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

6000

5000

4000

3000

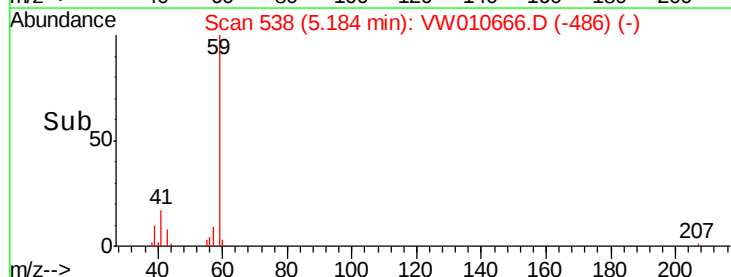
2000

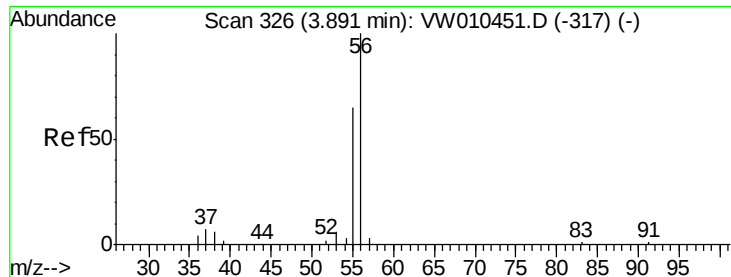
1000

0

5.10 5.20 5.30

Time-->





#13

Acrolein

Concen: 17.579 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW010666.D

Acq: 03 Jun 2019 18:16

Instrument :

MSVOA_W

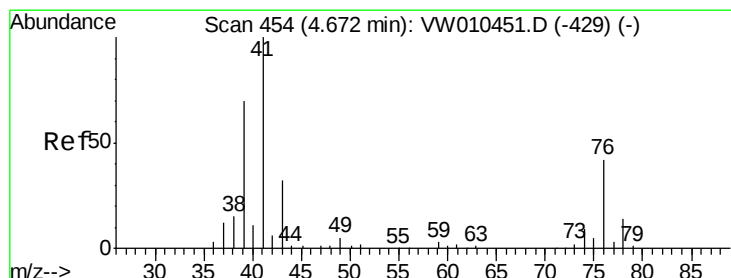
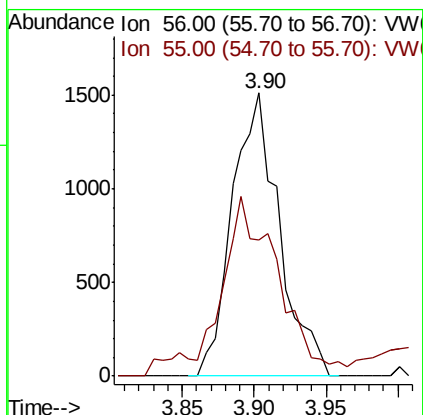
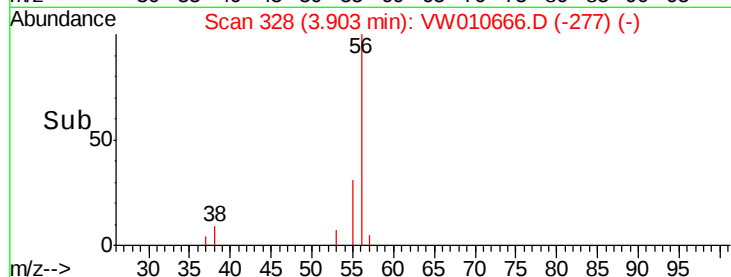
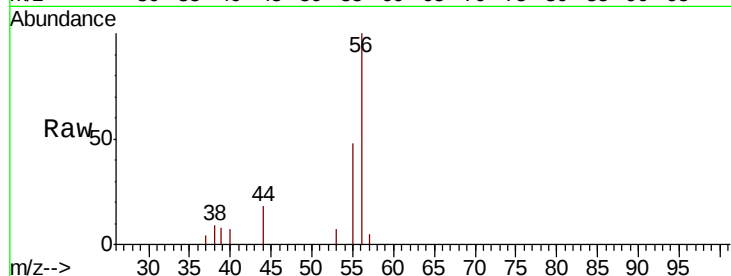
ClientSampleId :

Tot Ion: 56 Resp: 3433

Ion Ratio Lower Upper

56 100

55 79.4 57.9 86.9



#14

Allyl chloride

Concen: 4.126 ug/l

RT: 4.62 min Scan# 445

Delta R.T. -0.06 min

Lab File: VW010666.D

Acq: 03 Jun 2019 18:16

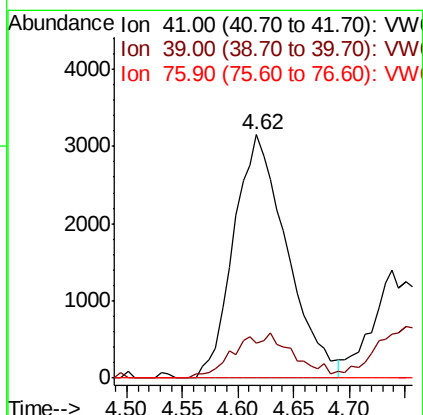
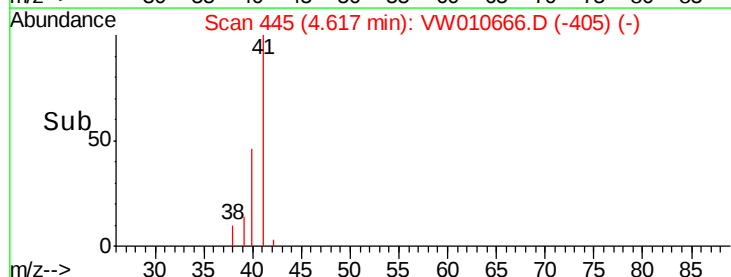
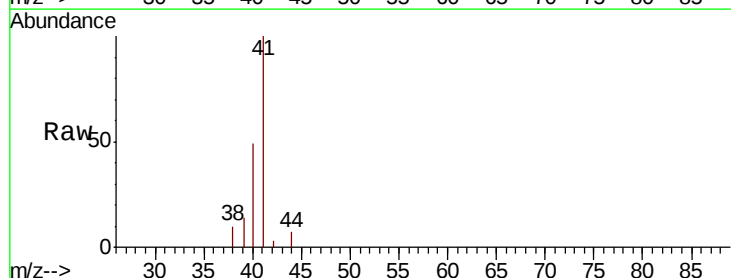
Tgt Ion: 41 Resp: 10447

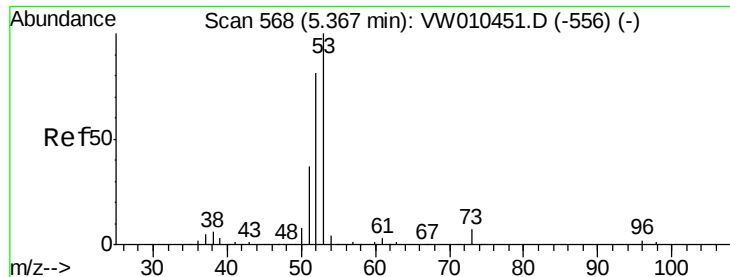
Ion Ratio Lower Upper

41 100

39 9.2 55.0 82.4#

76 0.0 32.8 49.2#





#15

Acrylonitrile

Concen: 21.352 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW010666.D

Acq: 03 Jun 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

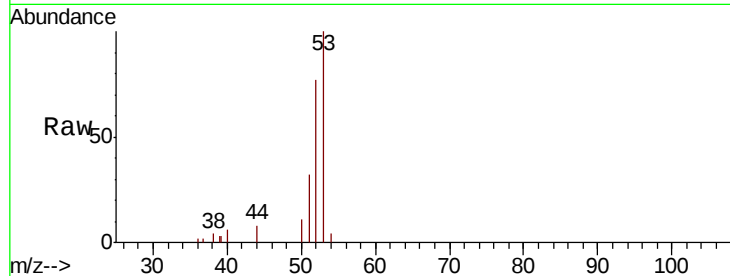
Tot Ion: 53 Resp: 8434

Ion Ratio Lower Upper

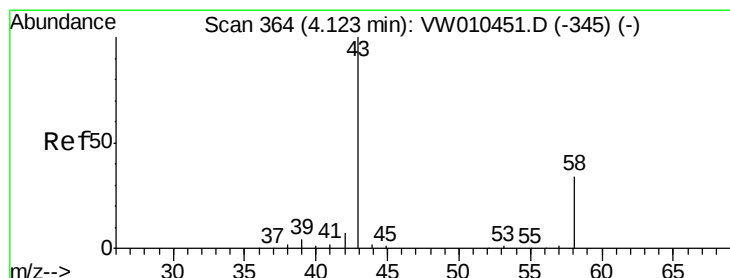
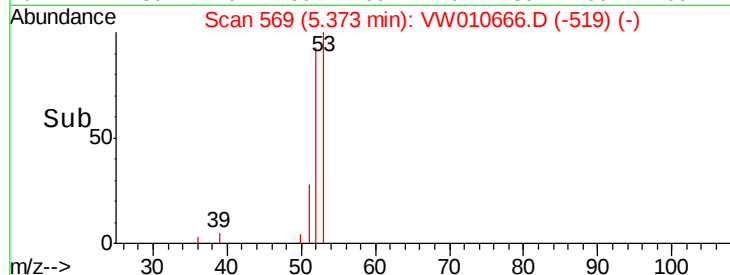
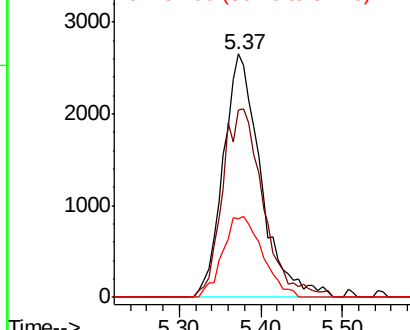
53 100

52 84.0 65.6 98.4

51 35.3 29.5 44.3



Abundance Ion 53.00 (52.70 to 53.70): VW
Ion 52.00 (51.70 to 52.70): VW
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 93.801 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010666.D

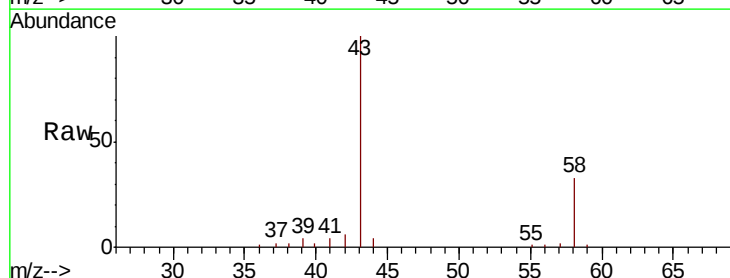
Acq: 03 Jun 2019 18:16

Tgt Ion: 43 Resp: 32726

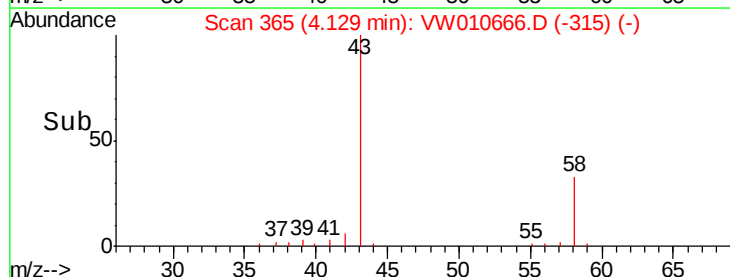
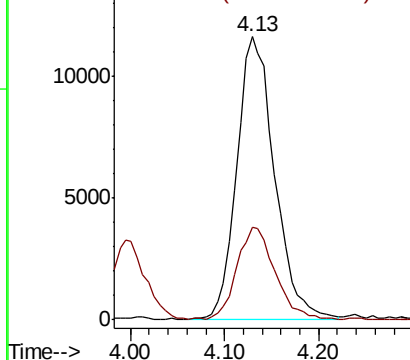
Ion Ratio Lower Upper

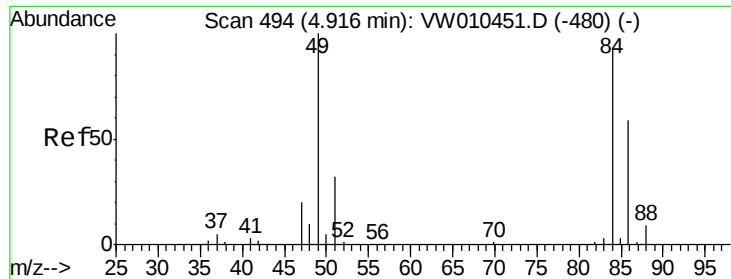
43 100

58 32.7 27.0 40.4



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

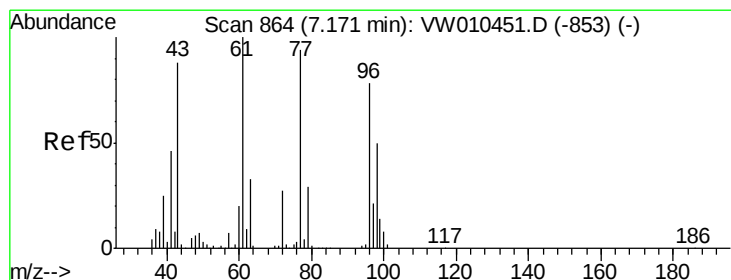
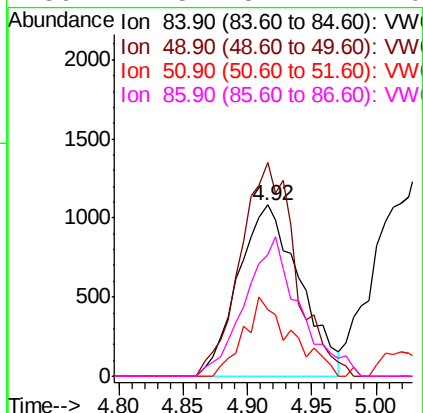
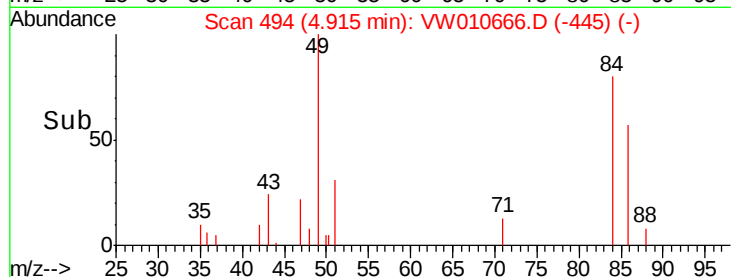
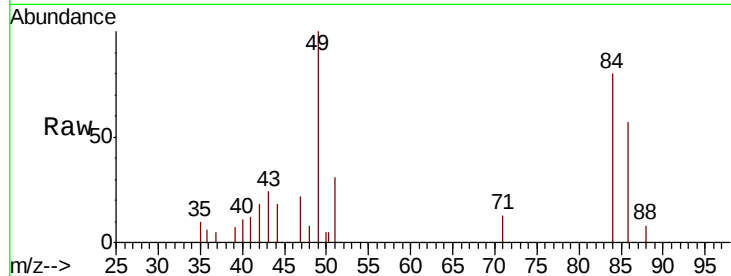




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

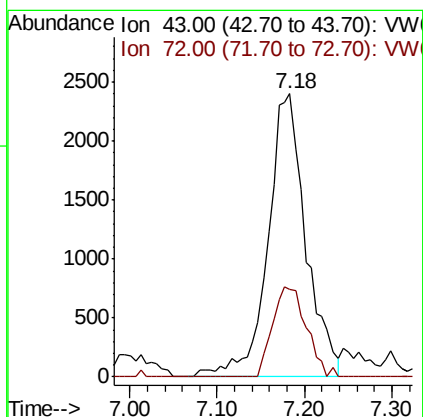
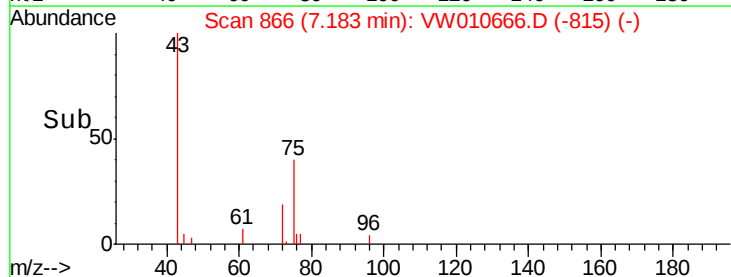
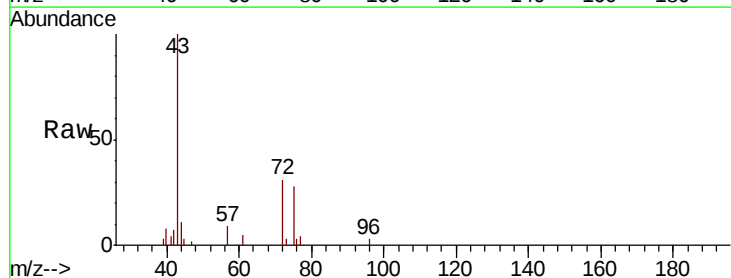
Instrument :
MSVOA_W
ClientSampleId :

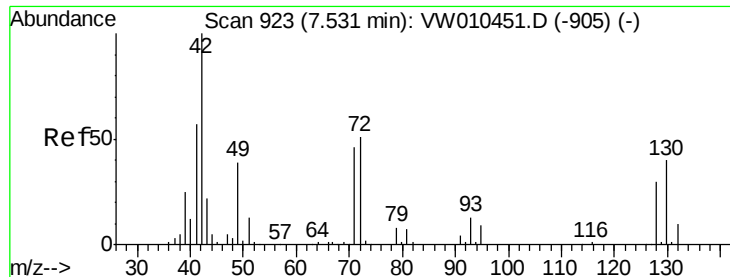
Tot Ion: 84 Resp: 3586
Ion Ratio Lower Upper
84 100
49 124.8 87.2 130.8
51 39.1 27.7 41.5
86 71.3 51.4 77.0



#25
2-Butanone
Concen: 14.430 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.01 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 43 Resp: 7205
Ion Ratio Lower Upper
43 100
72 31.1 24.1 36.1

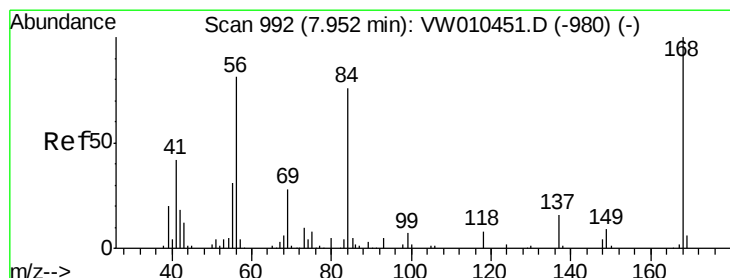
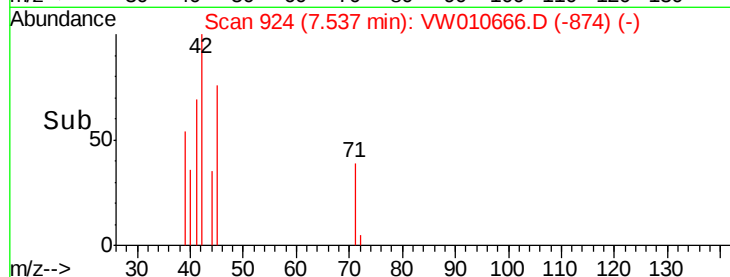
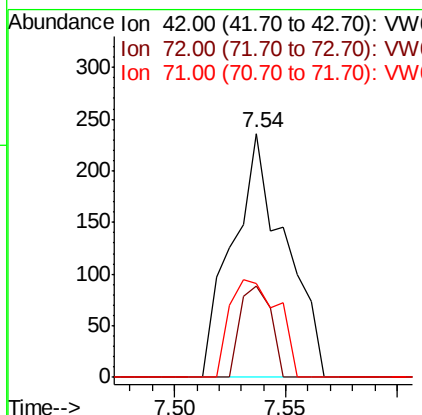
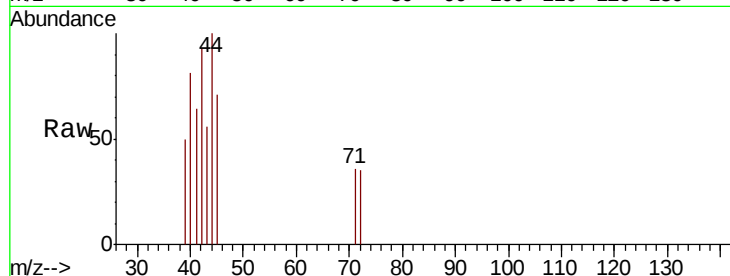




#29
Tetrahydrofuran
Concen: 1.157 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

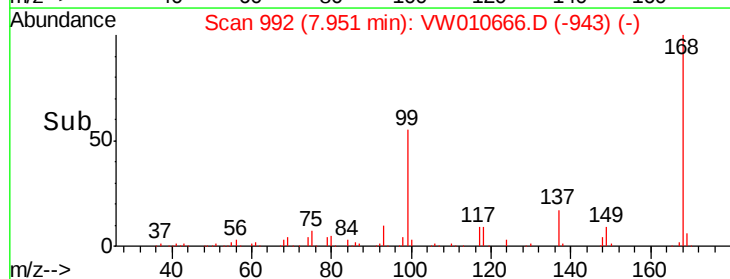
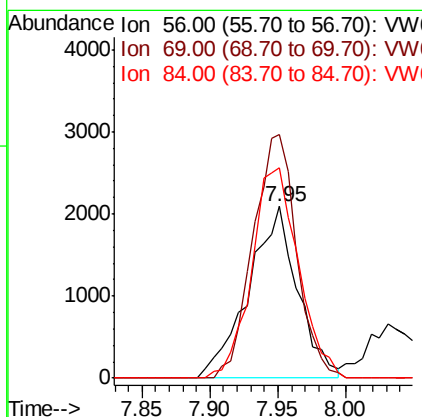
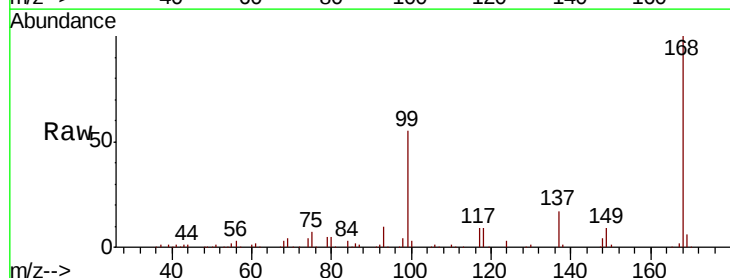
Instrument :
MSVOA_W
ClientSampleId :

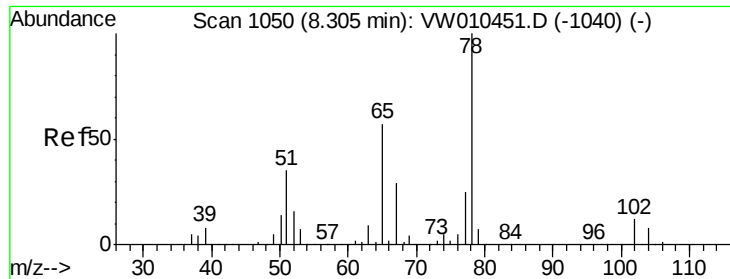
Tot Ion: 42 Resp: 391
Ion Ratio Lower Upper
42 100
72 21.7 38.5 57.7#
71 36.8 36.5 54.7



#31
Cyclohexane
Concen: 1.630 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 56 Resp: 5289
Ion Ratio Lower Upper
56 100
69 141.8 28.2 42.2#
84 122.3 75.8 113.8#

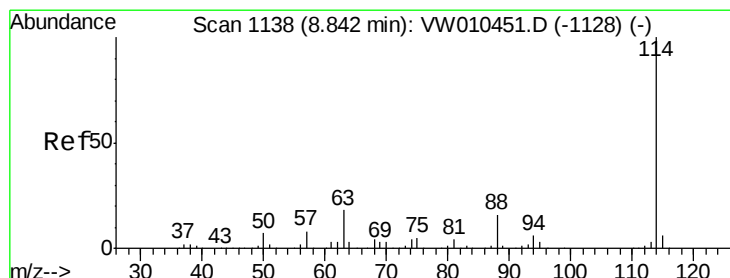
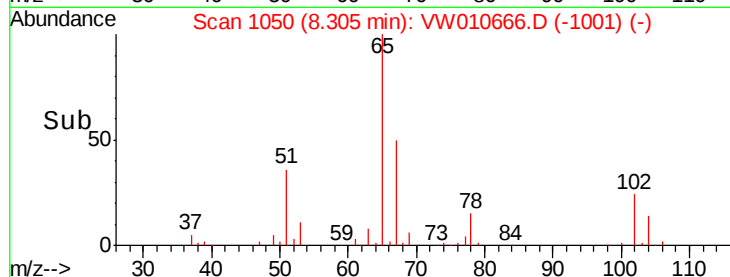
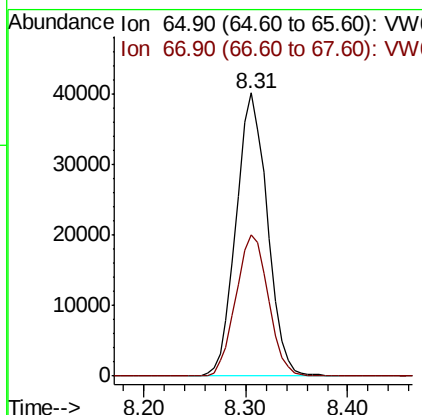
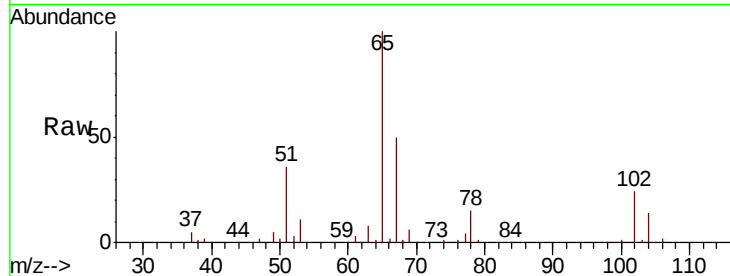




#33
 1,2-Dichloroethane-d4
 Concen: 50.058 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010666.D
 Acq: 03 Jun 2019 18:16

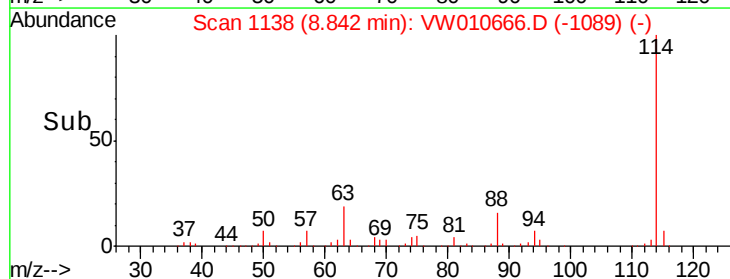
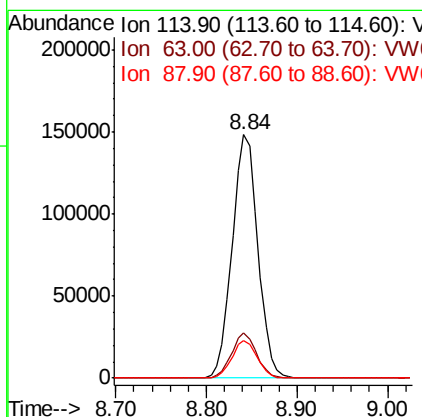
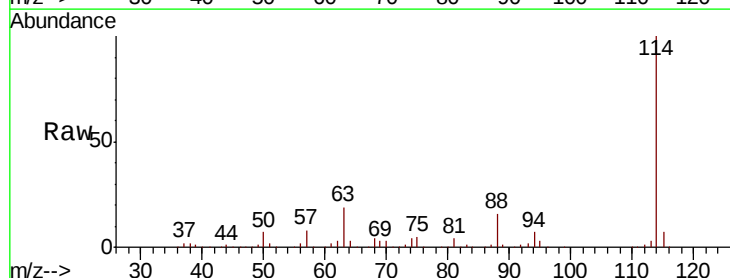
Instrument :
 MSVOA_W
 ClientSampleId :

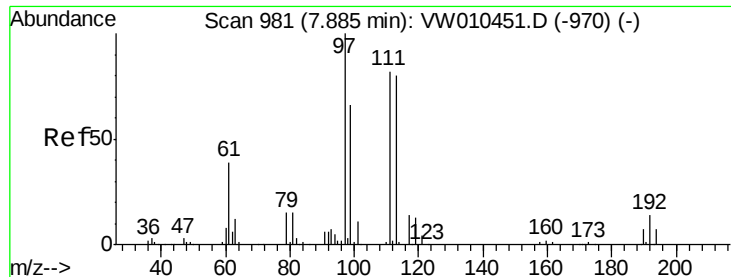
Tot Ion: 65 Resp: 85559
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010666.D
 Acq: 03 Jun 2019 18:16

Tgt Ion: 114 Resp: 291406
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 36.0
 88 15.5 0.0 32.0

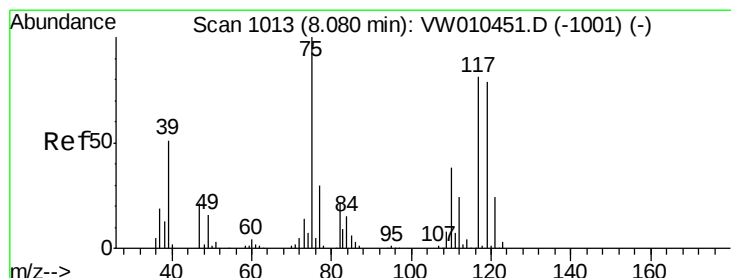
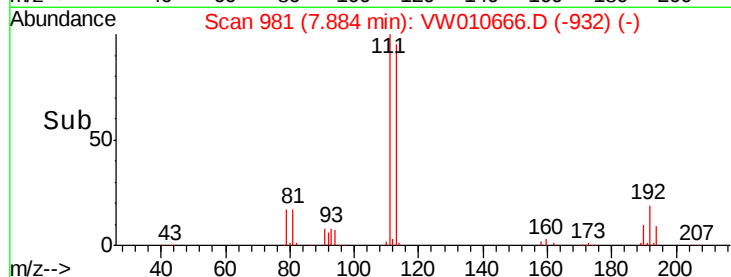
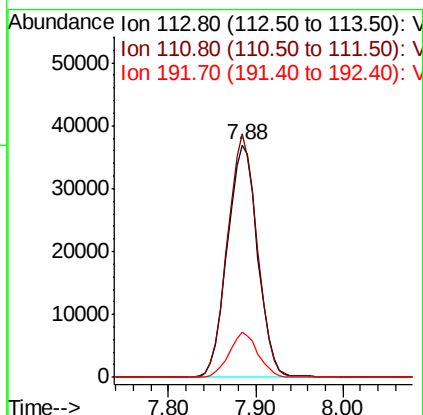
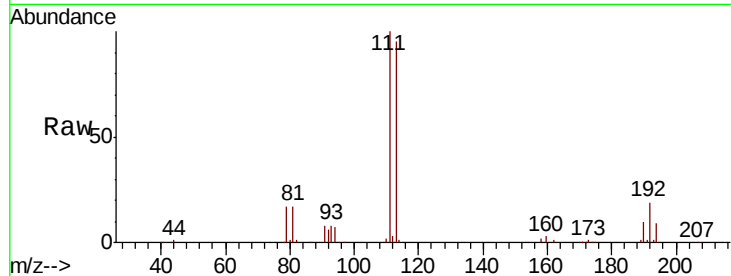




#35
Dibromofluoromethane
Concen: 50.262 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

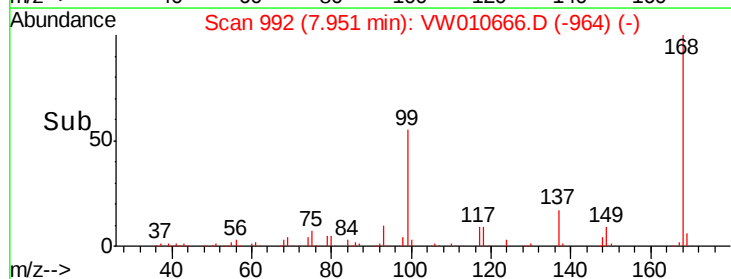
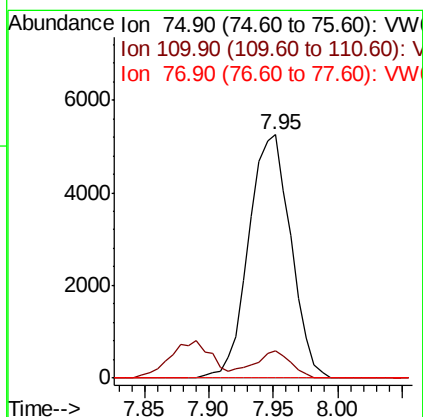
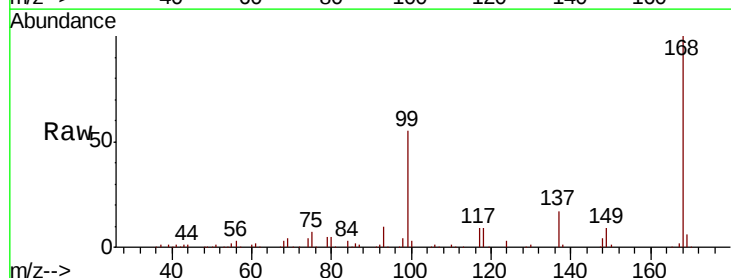
Instrument :
MSVOA_W
ClientSampleId :

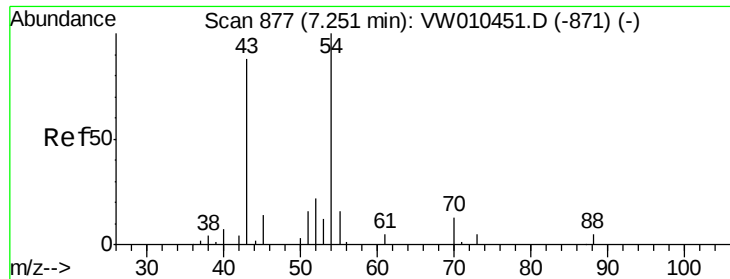
Tot Ion:113 Resp: 88873
Ion Ratio Lower Upper
113 100
111 102.5 82.2 123.4
192 18.5 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.368 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.13 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 75 Resp: 11857
Ion Ratio Lower Upper
75 100
110 10.0 19.2 57.6#
77 0.0 25.2 37.8#

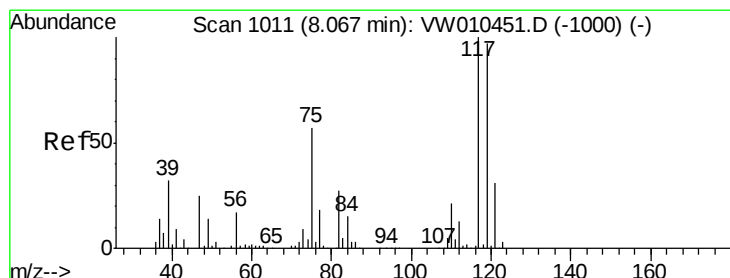
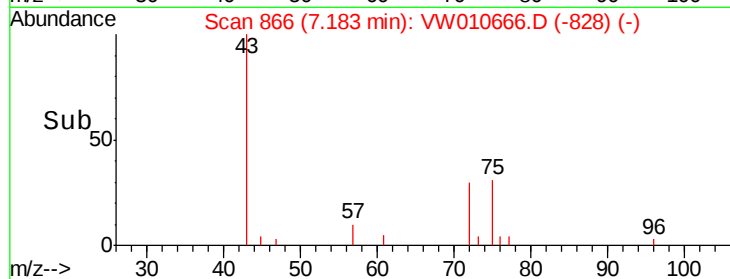
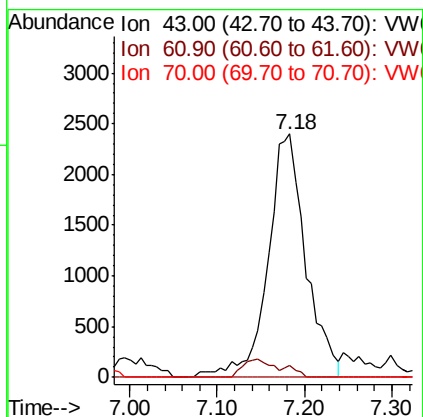
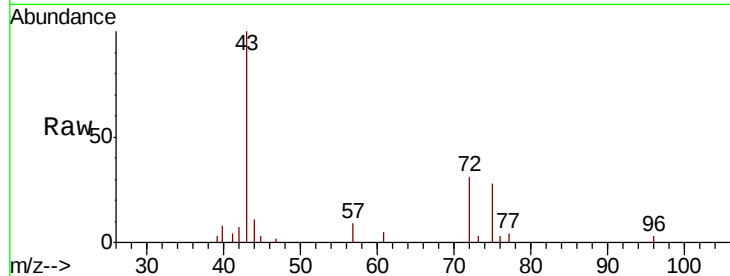




#37
Ethyl Acetate
Concen: 6.241 ug/l
RT: 7.18 min Scan# 866
Delta R.T. -0.07 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

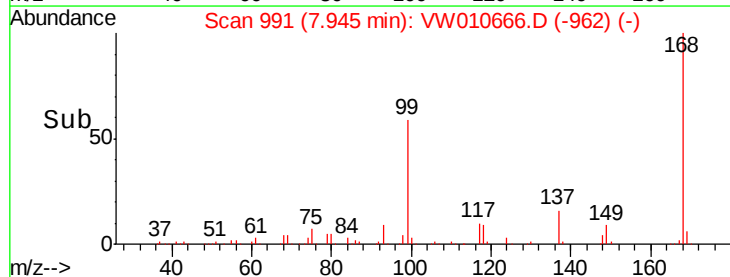
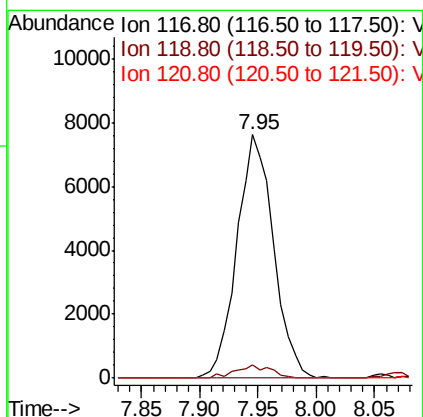
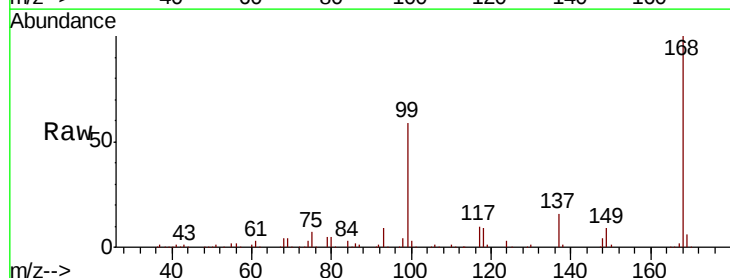
Instrument :
MSVOA_W
ClientSampleId :

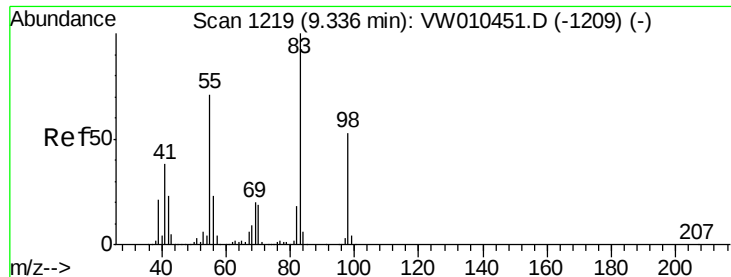
Tot Ion: 43 Resp: 7205
Ion Ratio Lower Upper
43 100
61 0.0 11.2 16.8#
70 0.0 9.9 14.9#



#38
Carbon Tetrachloride
Concen: 5.678 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 117 Resp: 16626
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 25.0 37.6#

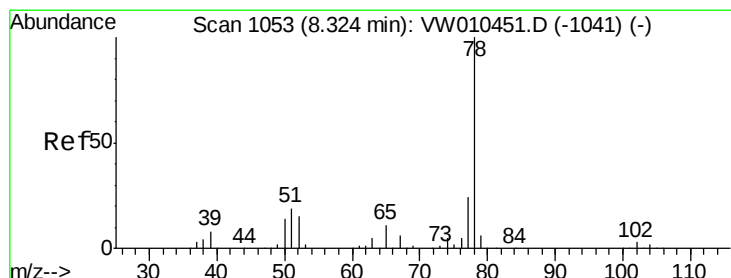
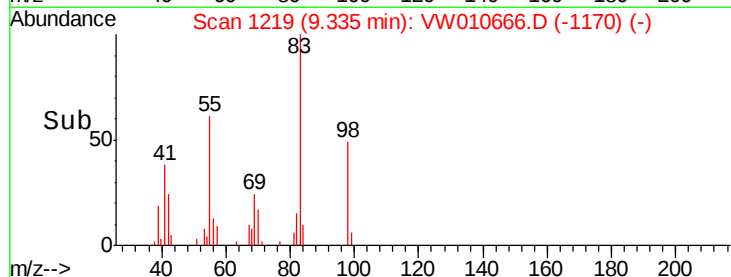
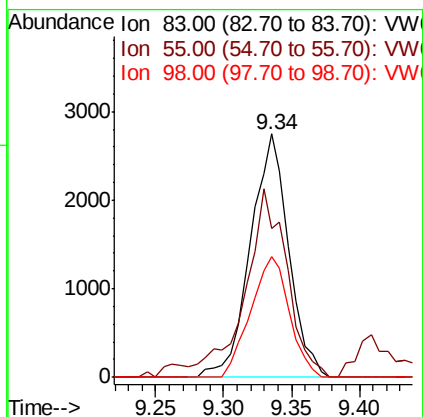
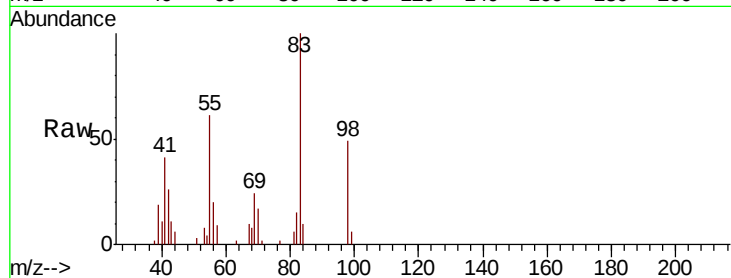




#39
Methvlcvclohexane
Concen: 1.489 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

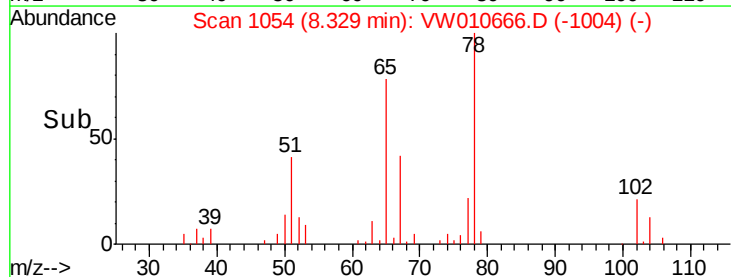
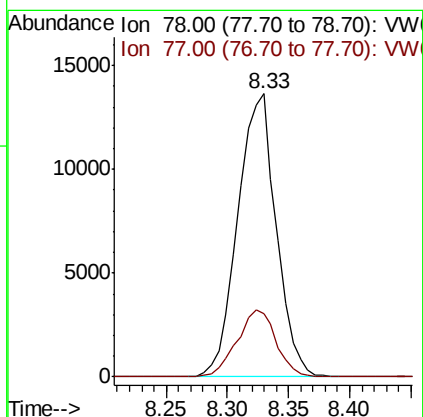
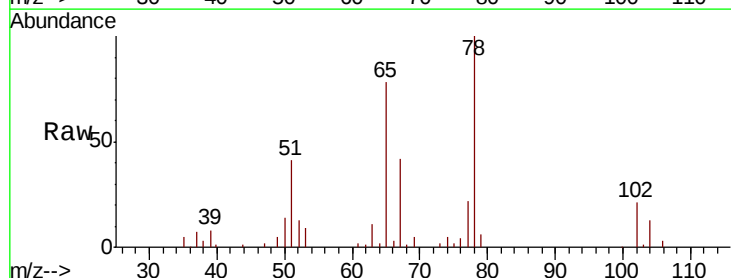
Instrument :
MSVOA_W
ClientSampled :

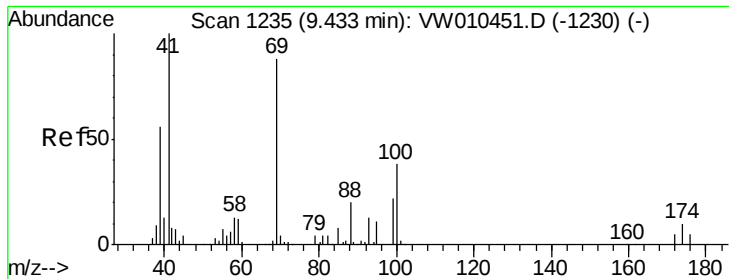
Tot Ion: 83 Resp: 5414
Ion Ratio Lower Upper
83 100
55 61.3 57.0 85.6
98 49.5 42.0 63.0



#40
Benzene
Concen: 3.944 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 78 Resp: 29754
Ion Ratio Lower Upper
78 100
77 22.5 18.9 28.3

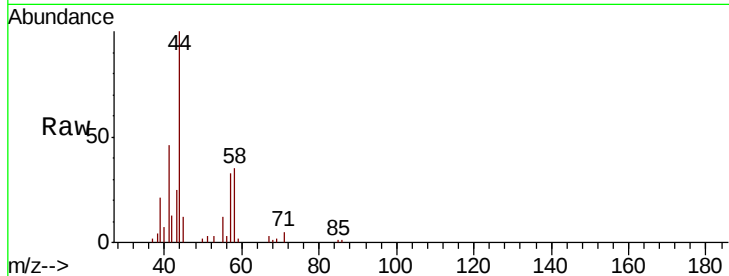




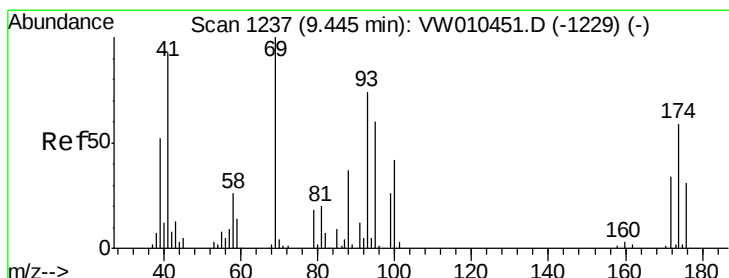
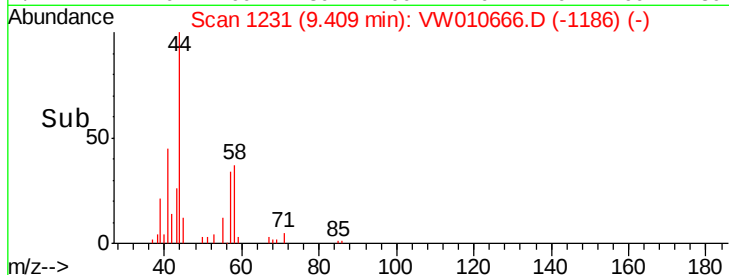
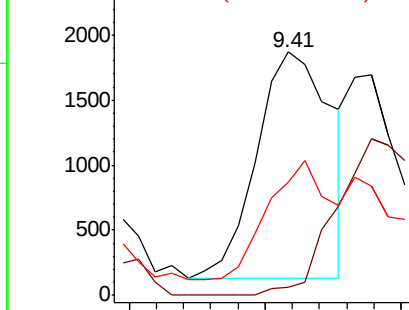
#48
Methyl methacrylate
Concen: 3.148 ug/l
RT: 9.41 min Scan# 1231
Delta R.T. -0.02 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 41 Resp: 3321
Ion Ratio Lower Upper
41 100
69 0.0 77.6 116.4#
39 44.0 49.8 74.8#

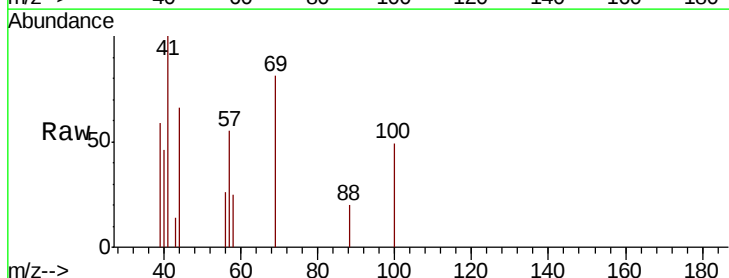


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

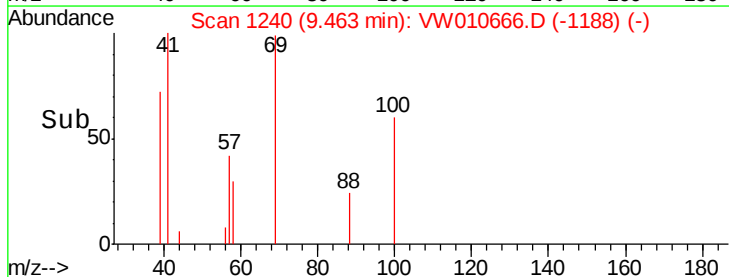
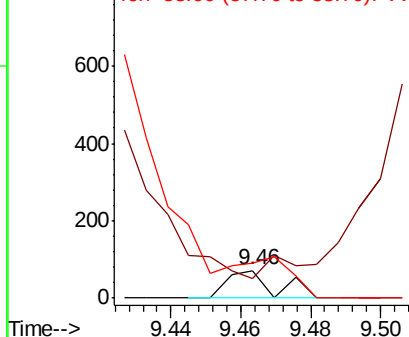


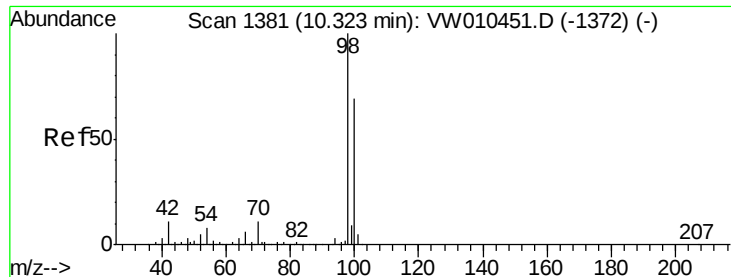
#49
1,4-Dioxane
Concen: 3.914 ug/l
RT: 9.46 min Scan# 1240
Delta R.T. 0.02 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 0.0 25.9 38.9#
58 0.0 52.7 79.1#



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

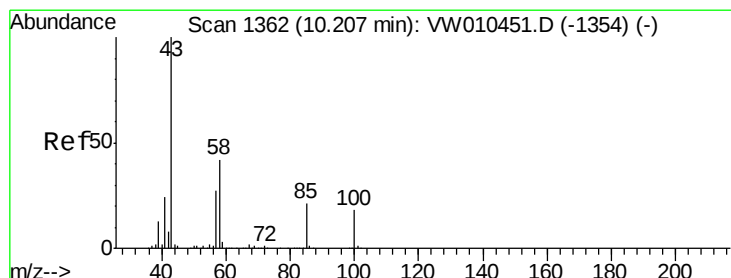
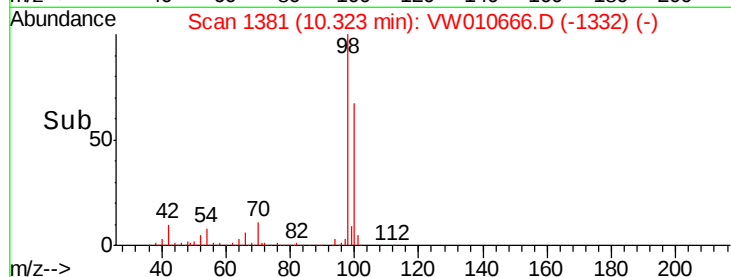
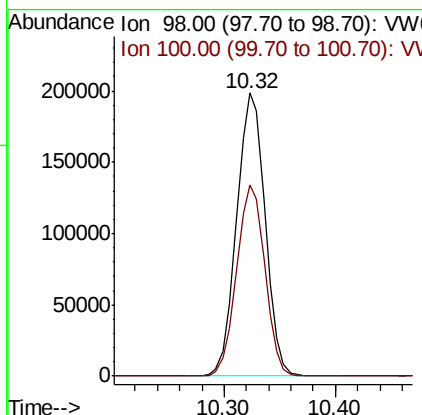
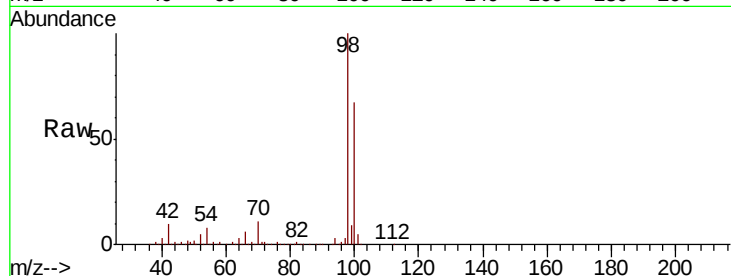




#50
Toluene-d8
Concen: 51.899 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

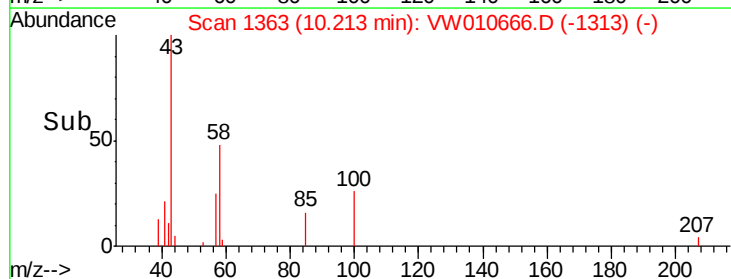
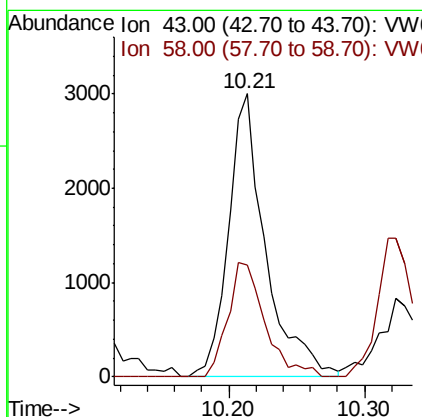
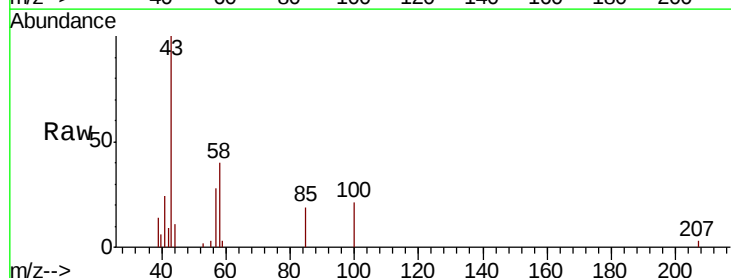
Instrument :
MSVOA_W
ClientSampled :

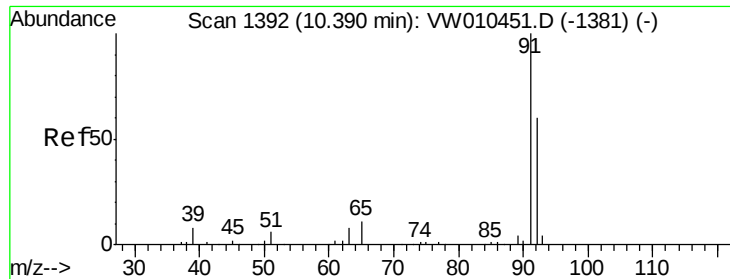
Tot Ion: 98 Resp: 350576
Ion Ratio Lower Upper
98 100
100 67.1 53.7 80.5



#51
4-Methyl-2-Pentanone
Concen: 4.875 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 43 Resp: 5697
Ion Ratio Lower Upper
43 100
58 40.3 33.2 49.8





#52

Toluene

Concen: 7.203 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW010666.D

Acq: 03 Jun 2019 18:16

Instrument :

MSVOA_W

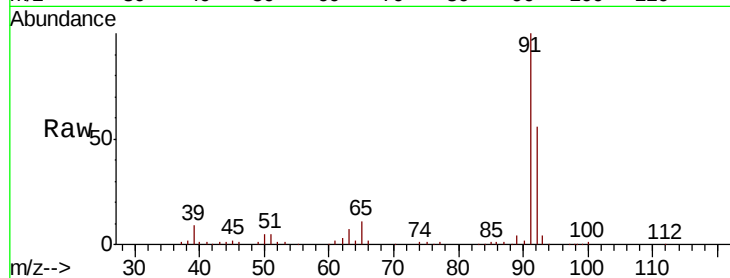
ClientSampled :

Tot Ion: 92 Resp: 36497

Ion Ratio Lower Upper

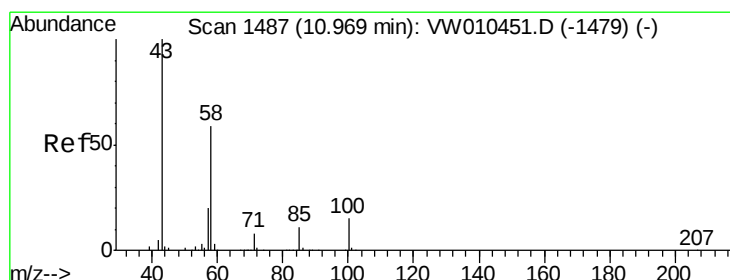
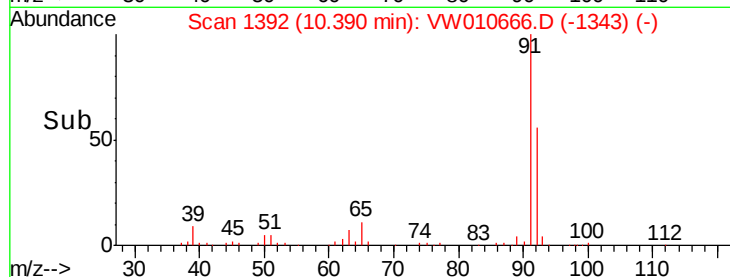
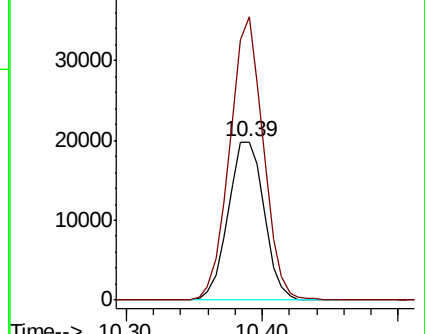
92 100

91 166.9 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#59

2-Hexanone

Concen: 2.123 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW010666.D

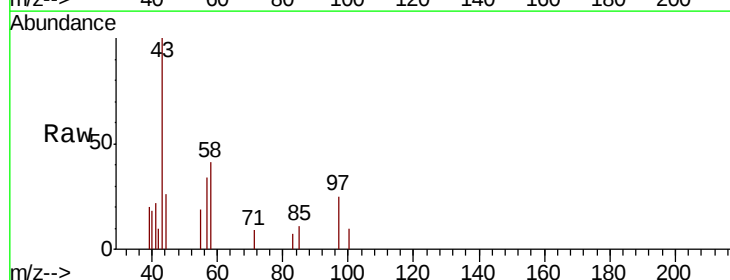
Acq: 03 Jun 2019 18:16

Tgt Ion: 43 Resp: 1770

Ion Ratio Lower Upper

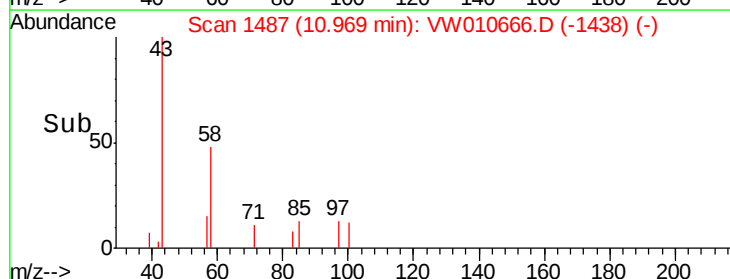
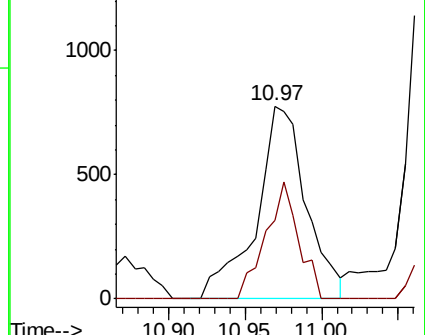
43 100

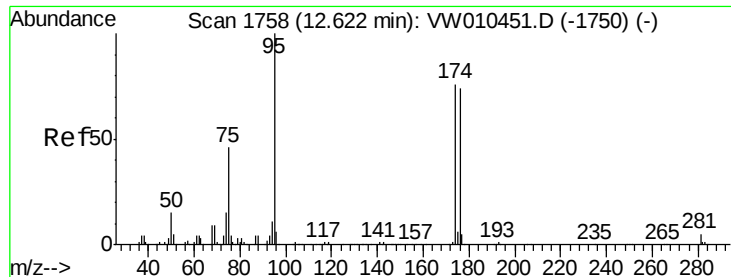
58 40.0 28.9 86.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

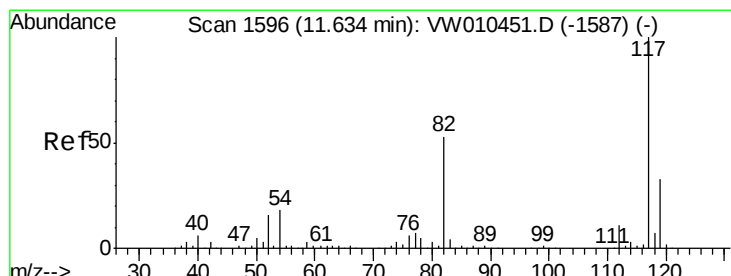
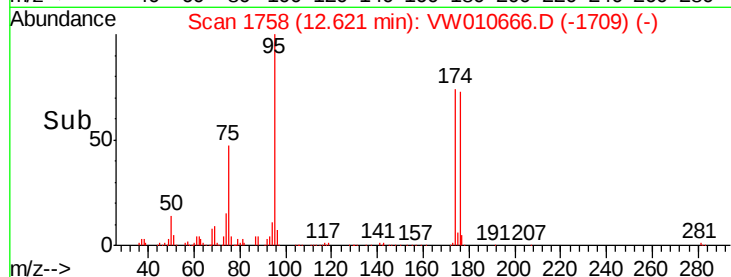
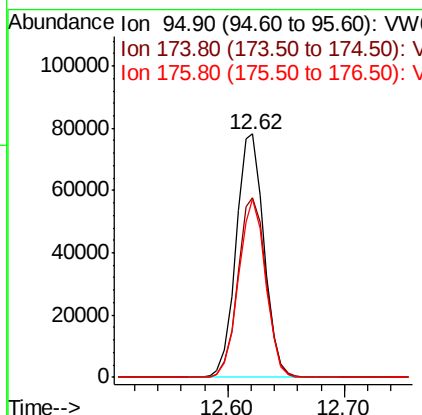
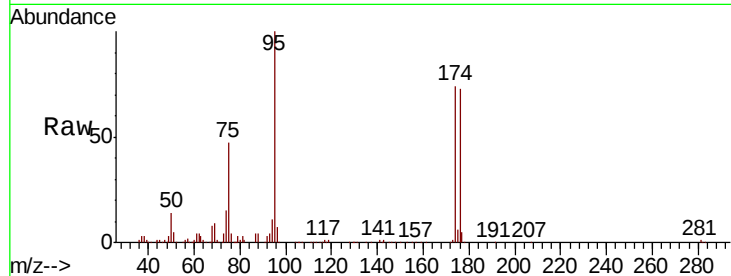




#62
4-Bromofluorobenzene
Concen: 48.321 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

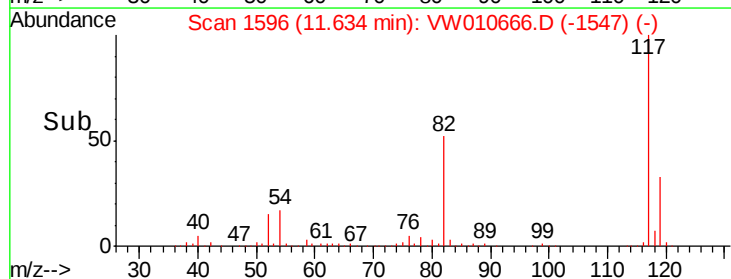
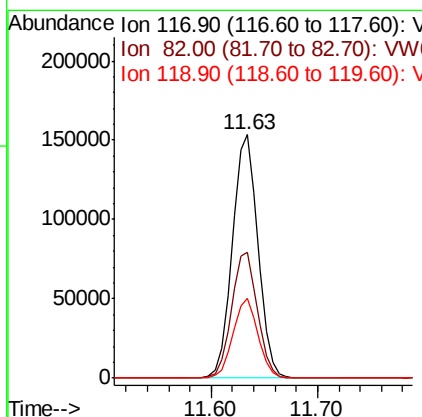
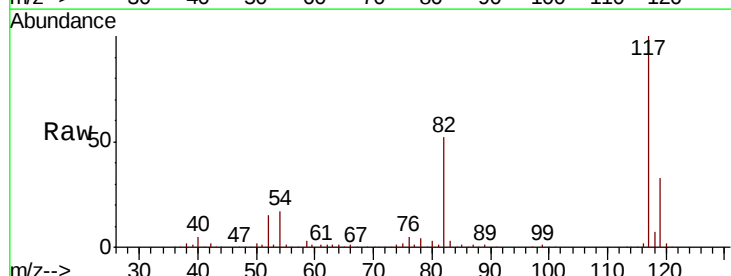
Instrument :
MSVOA_W
ClientSampleId :

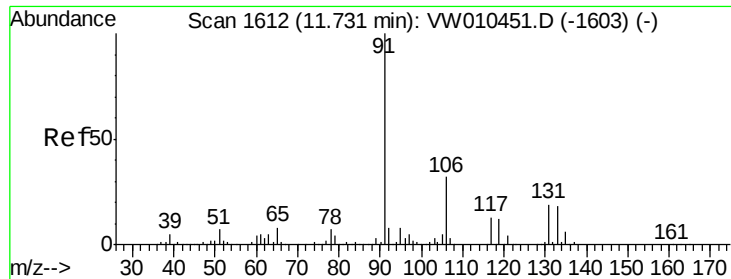
Tot Ion: 95 Resp: 130011
Ion Ratio Lower Upper
95 100
174 75.0 0.0 148.6
176 71.3 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 117 Resp: 258324
Ion Ratio Lower Upper
117 100
82 51.6 42.8 64.2
119 32.9 26.3 39.5

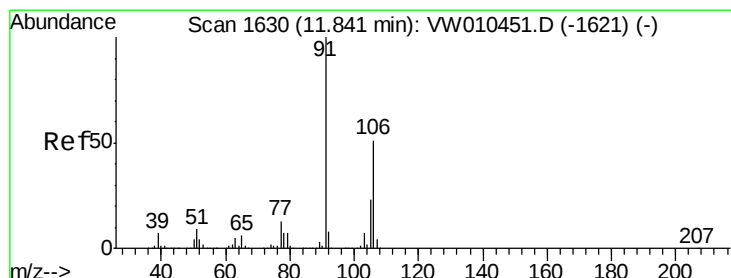
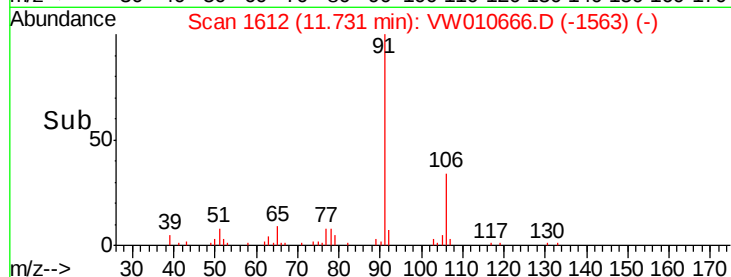
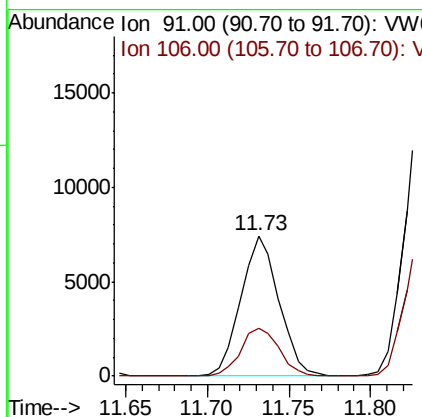
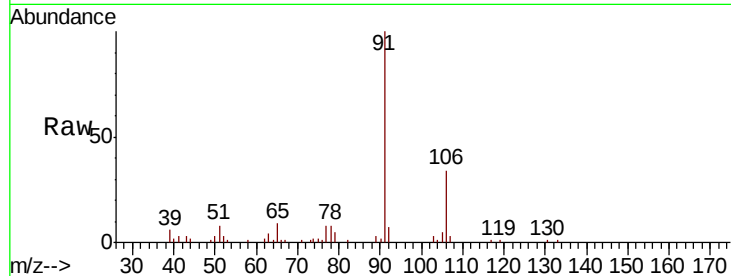




#67
Ethyl Benzene
Concen: 1.243 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

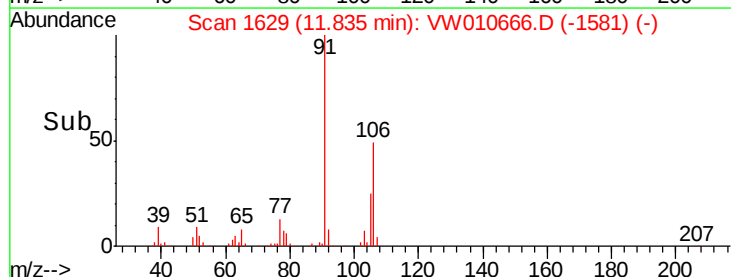
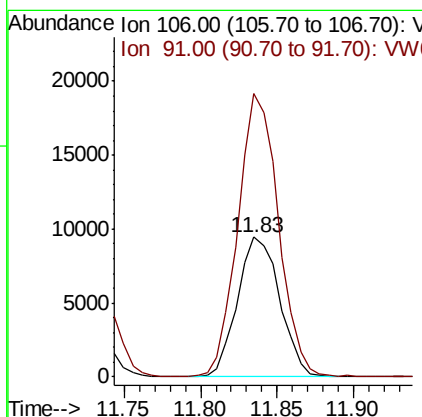
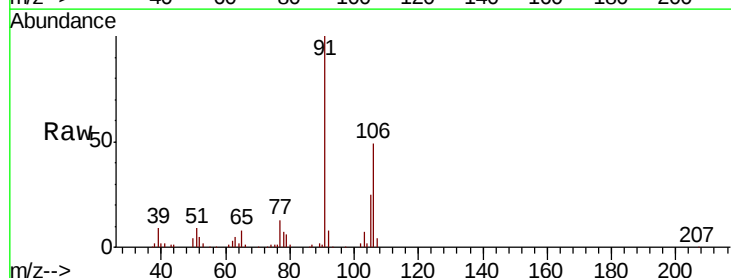
Instrument :
MSVOA_W
ClientSampled :

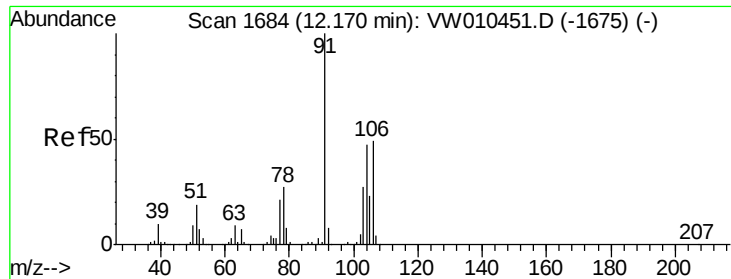
Tot Ion: 91 Resp: 12086
Ion Ratio Lower Upper
91 100
106 34.0 25.9 38.9



#68
m/p-Xylenes
Concen: 4.765 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion:106 Resp: 18166
Ion Ratio Lower Upper
106 100
91 194.6 156.0 234.0

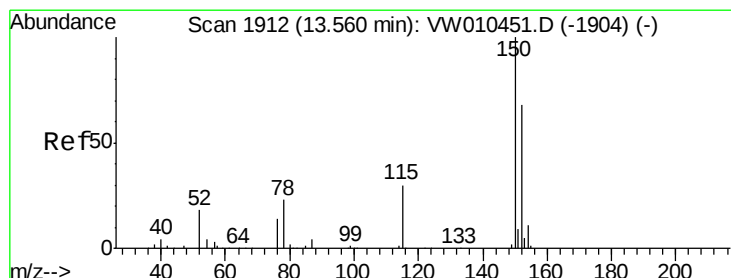
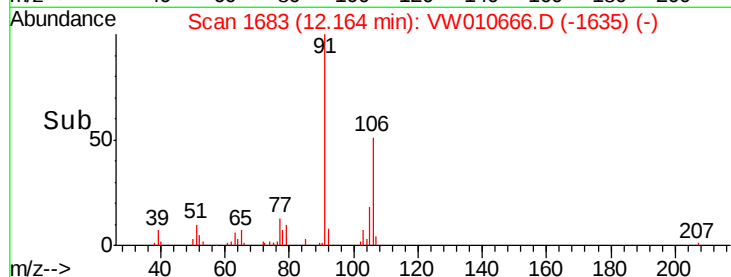
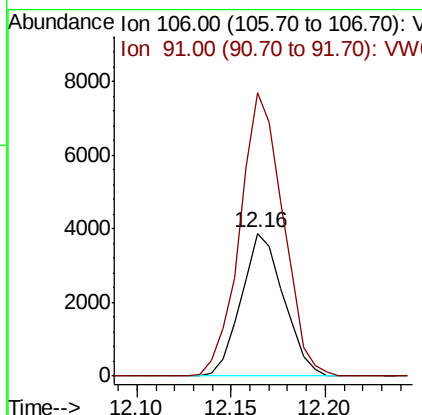
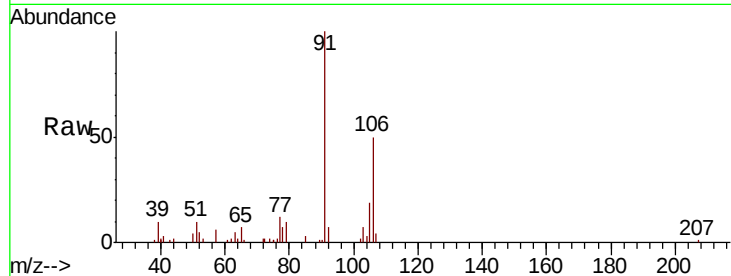




#69
o-Xylene
Concen: 1.683 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

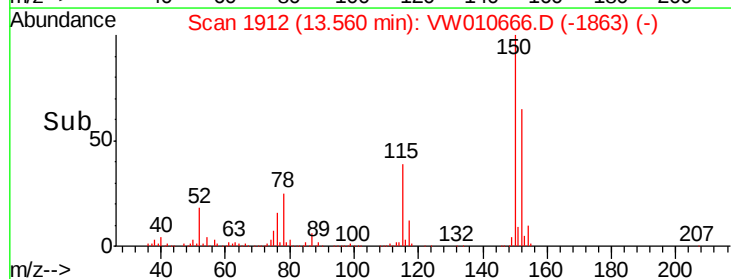
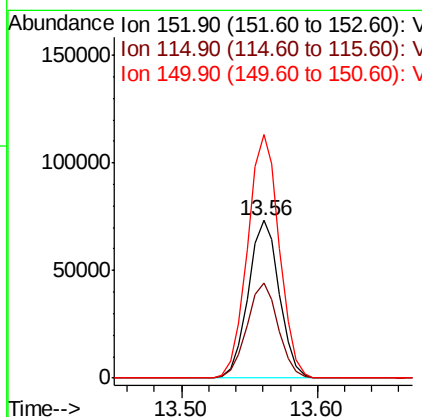
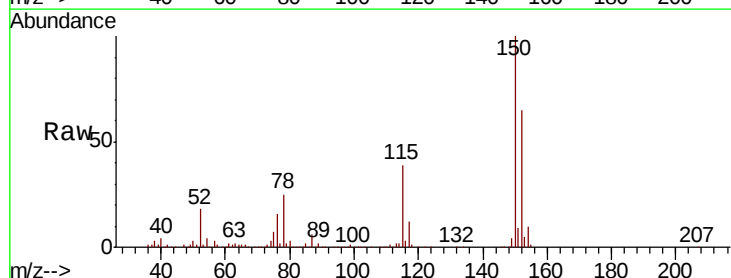
Instrument :
MSVOA_W
ClientSampled :

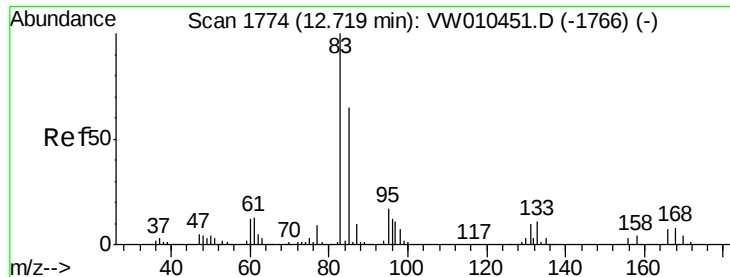
Tot Ion:106 Resp: 6081
Ion Ratio Lower Upper
106 100
91 201.3 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion:152 Resp: 116724
Ion Ratio Lower Upper
152 100
115 61.2 30.3 91.0
150 157.8 0.0 349.8





#75

1,1,2,2-Tetrachloroethane

Concen: 1.109 ug/l

RT: 12.73 min Scan# 1775

Delta R.T. 0.01 min

Lab File: VW010666.D

Acq: 03 Jun 2019 18:16

Instrument :

MSVOA_W

ClientSampleId :

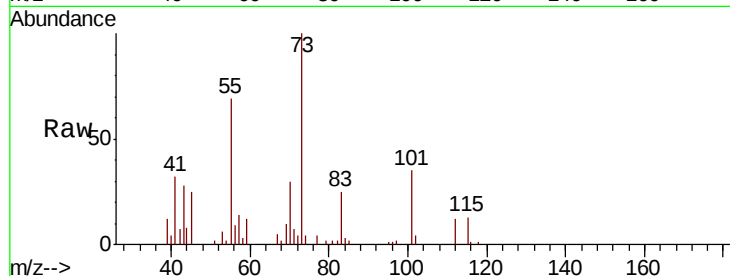
Tot Ion: 83 Resp: 1869

Ion Ratio Lower Upper

83 100

131 0.0 5.6 16.8#

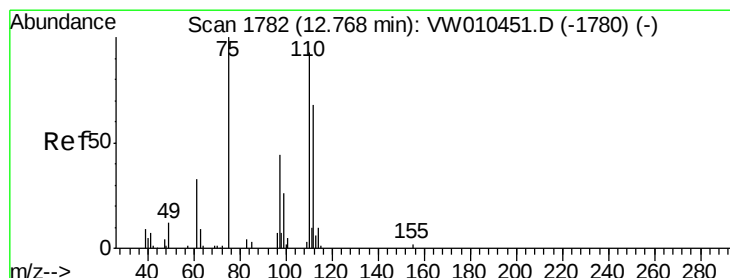
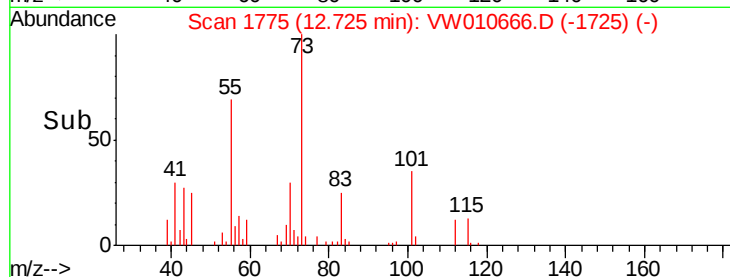
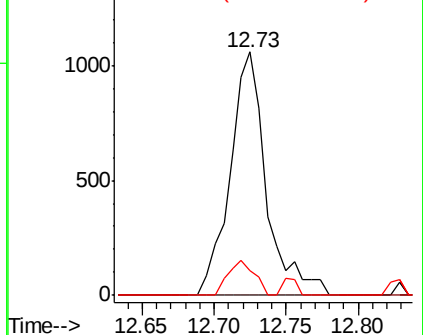
85 10.3 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 50.592 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010666.D

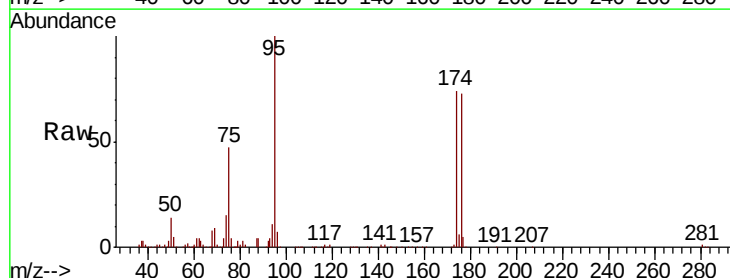
Acq: 03 Jun 2019 18:16

Tgt Ion: 75 Resp: 59942

Ion Ratio Lower Upper

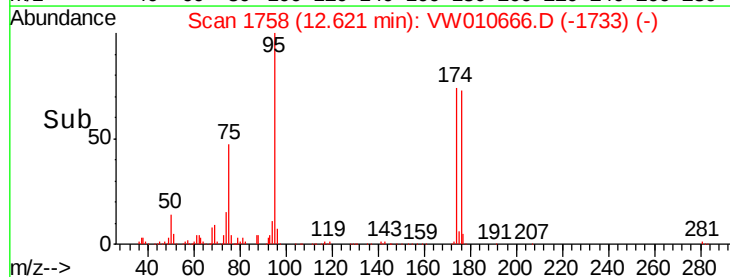
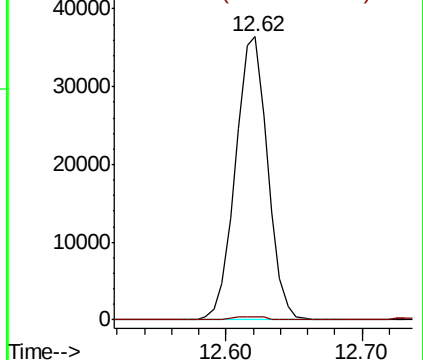
75 100

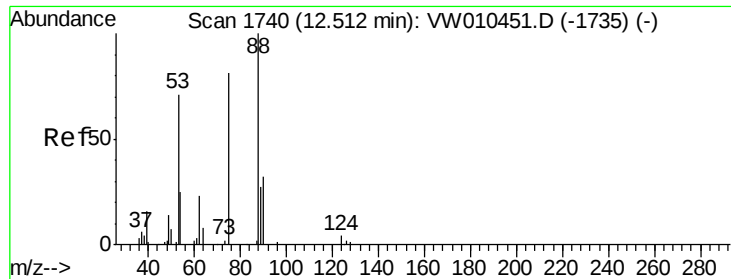
77 1.2 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

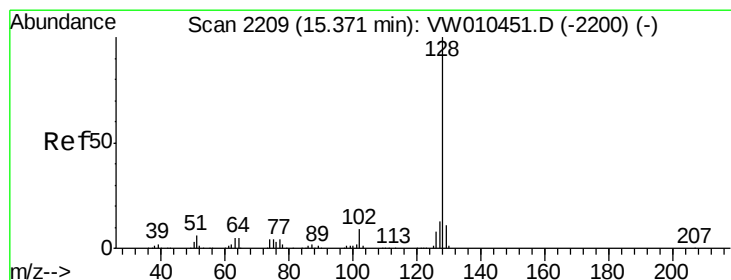
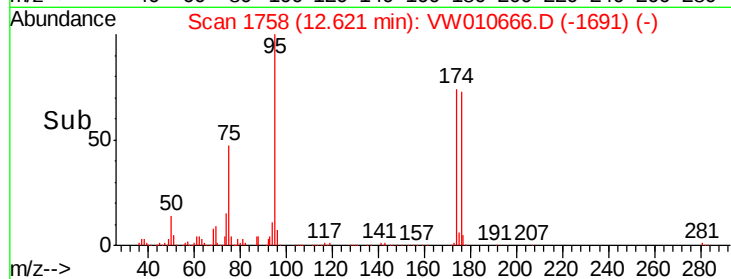
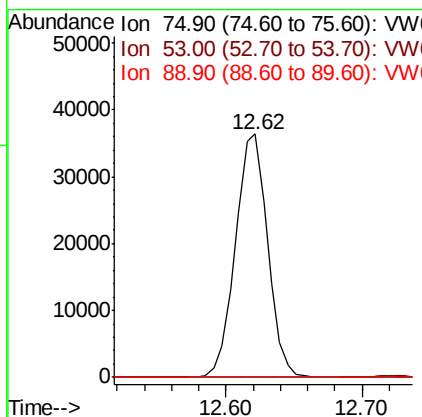
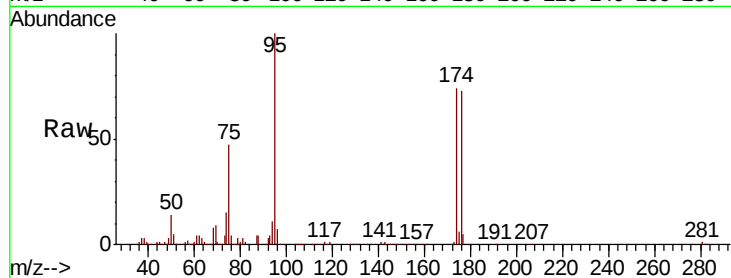




#81
trans-1,4-Dichloro-2-butene
Concen: 105.586 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 75 Resp: 59942
Ion Ratio Lower Upper
75 100
53 0.0 69.8 104.8#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 1.528 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010666.D
Acq: 03 Jun 2019 18:16

Tgt Ion: 128 Resp: 8085
Ion Ratio Lower Upper
128 100
127 12.5 10.6 15.8
129 10.5 8.9 13.3

