

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062019\
 Data File : VW010891.D
 Acq On : 20 Jun 2019 14:45
 Operator : SY/VA
 Sample : K3453-01
 Misc : 5.03G/5ML/MSVOA W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 21 07:47:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W060419S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 05 03:21:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	38440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	58443	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	47140	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	18014	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	24522	54.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.24%	
35) Dibromofluoromethane	7.88	113	16107	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
50) Toluene-d8	10.32	98	69939	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.62	95	22212	43.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.76%	

Target Compounds

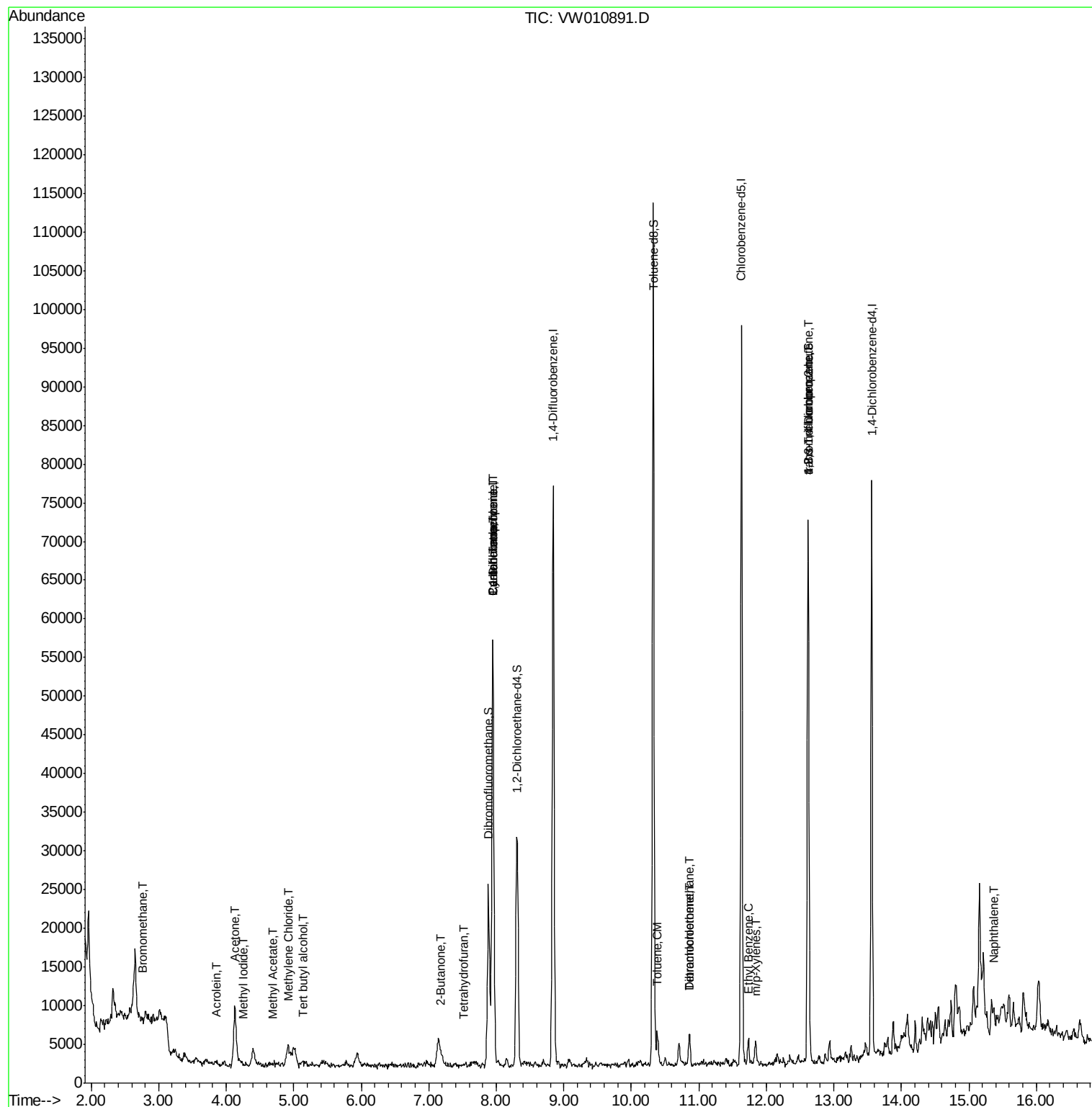
						Qvalue
5) Bromomethane	2.76	94	559	2.108	ug/l #	78
10) Methyl Iodide	4.26	142	102	5.031	ug/l #	41
11) Tert butyl alcohol	5.14	59	161	4.362	ug/l #	72
13) Acrolein	3.85	56	22	1.459	ug/l #	14
16) Acetone	4.13	43	13867	114.224	ug/l	93
18) Methyl Acetate	4.70	43	363	1.389	ug/l #	55
20) Methylene Chloride	4.93	84	1474	3.461	ug/l #	78
25) 2-Butanone	7.18	43	1716	10.194	ug/l	100
29) Tetrahydrofuran	7.52	42	112	1.058	ug/l #	40
31) Cyclohexane	7.95	56	1419	1.552	ug/l #	27
36) 1,1-Dichloropropene	7.95	75	3600	6.018	ug/l #	49
38) Carbon Tetrachloride	7.95	117	4032	7.808	ug/l #	18
52) Toluene	10.39	92	1751	1.744	ug/l	89
60) Dibromochloromethane	10.86	129	785	2.450	ug/l #	11
64) Tetrachloroethene	10.86	164	884	2.824	ug/l #	85
67) Ethyl Benzene	11.74	91	2229	1.251	ug/l	90
68) m/p-Xylenes	11.84	106	772	1.211	ug/l	91
76) 1,2,3-Trichloropropane	12.62	75	12555	66.368	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	12555	152.536	ug/l #	6
95) Naphthalene	15.37	128	1669	2.554	ug/l #	82

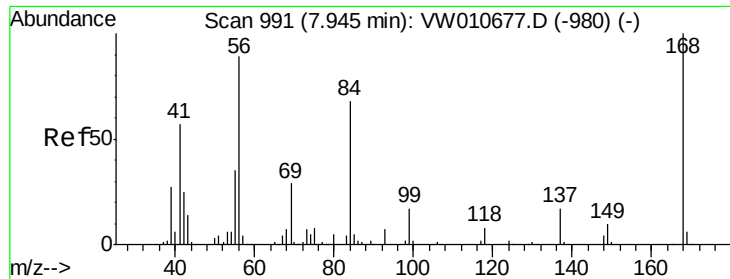
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 05 03:21:19 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

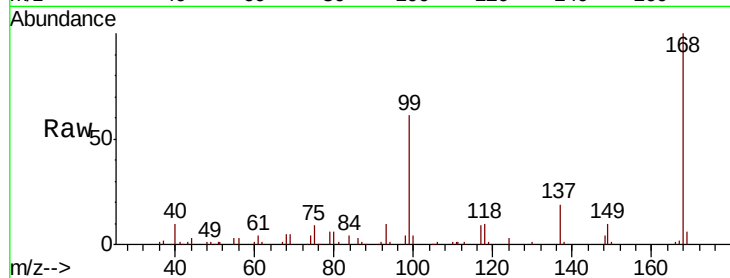
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 38440

Ion Ratio Lower Upper

168 100

99 60.8 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

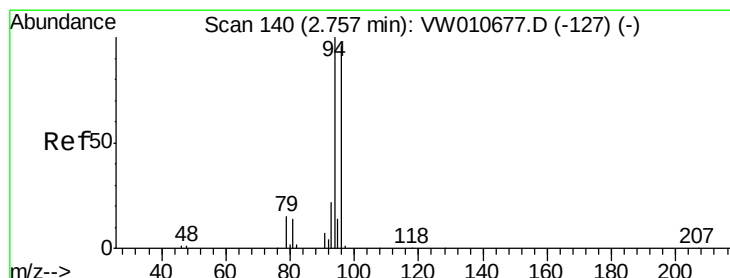
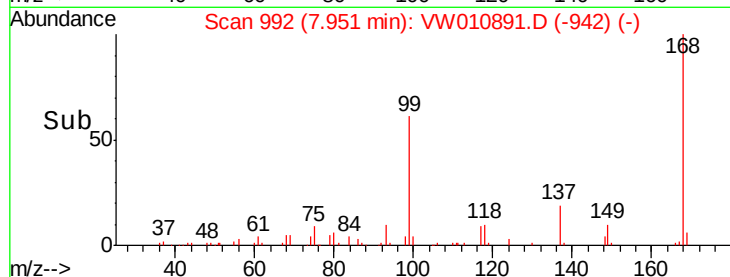
15000

10000

5000

0

Time-->



#5

Bromomethane

Concen: 2.108 ug/l

RT: 2.76 min Scan# 141

Delta R.T. 0.01 min

Lab File: VW010891.D

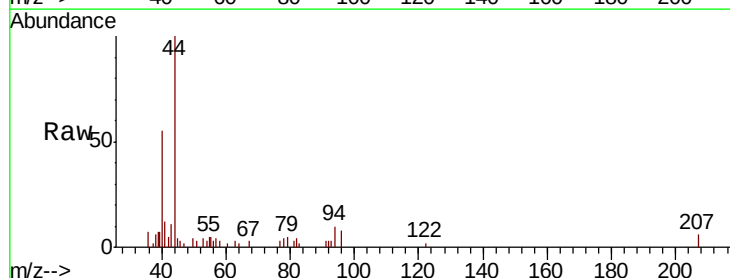
Acq: 20 Jun 2019 14:45

Tgt Ion: 94 Resp: 559

Ion Ratio Lower Upper

94 100

96 74.5 76.5 114.7#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.76

300

250

200

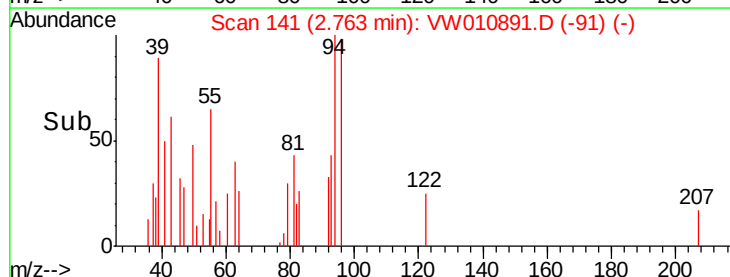
150

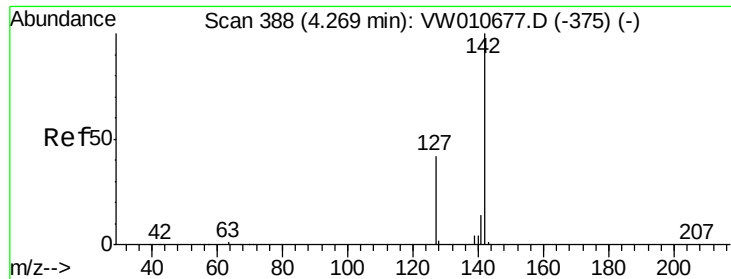
100

50

0

Time-->

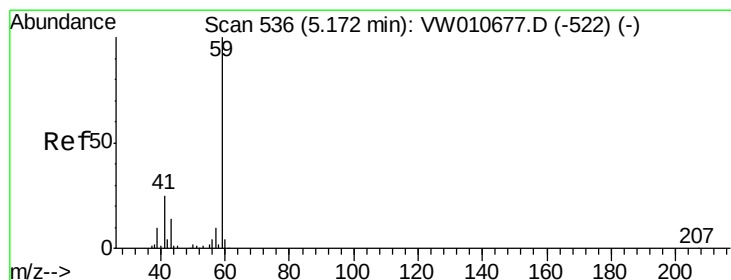
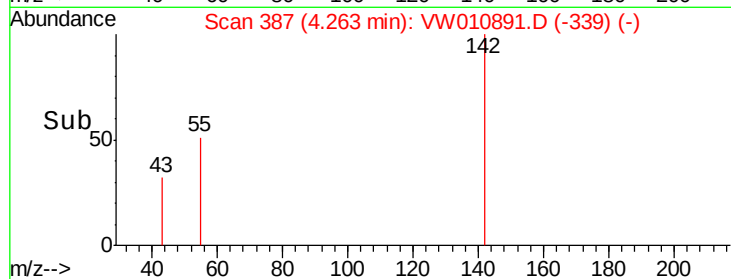
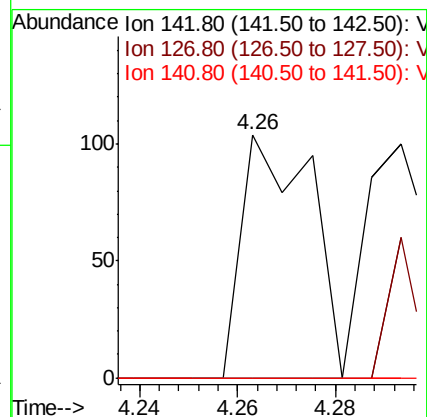
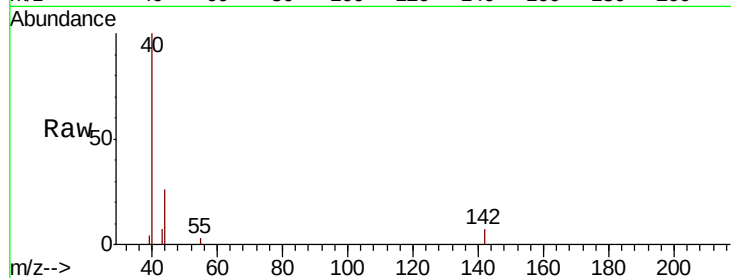




#10
Methyl Iodide
Concen: 5.031 ug/l
RT: 4.26 min Scan# 387
Delta R.T. -0.01 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

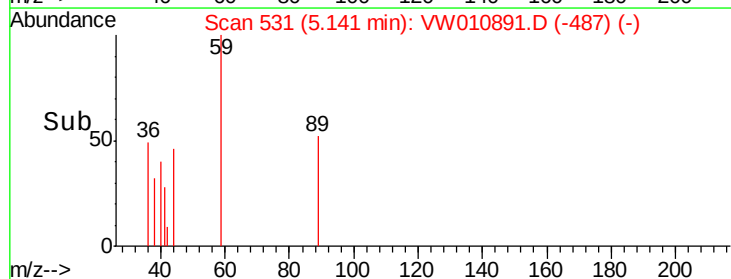
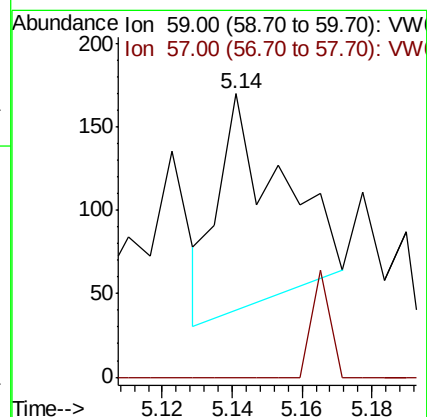
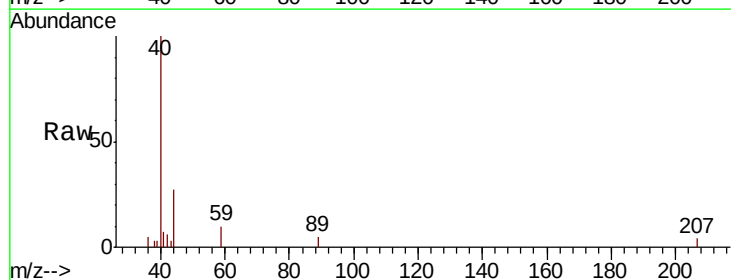
Instrument :
MSVOA_W
ClientSampled :

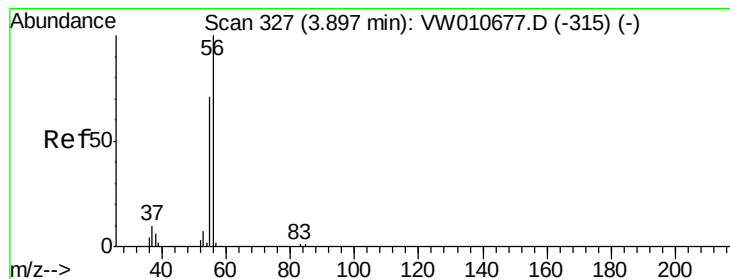
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	34.6	51.8#
141	0.0	11.6	17.4#



#11
Tert butyl alcohol
Concen: 4.362 ug/l
RT: 5.14 min Scan# 531
Delta R.T. -0.03 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.6	12.8#





#13

Acrolein

Concen: 1.459 ug/l

RT: 3.85 min Scan# 320

Delta R.T. -0.04 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

Instrument :

MSVOA_W

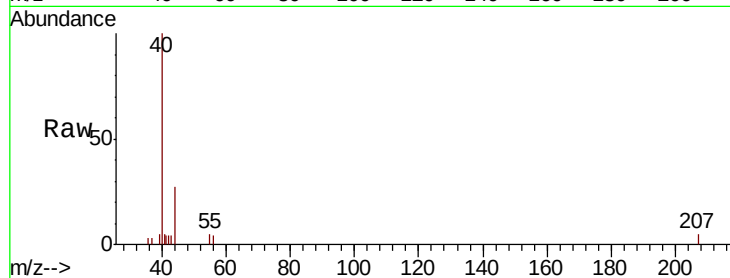
ClientSampled :

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

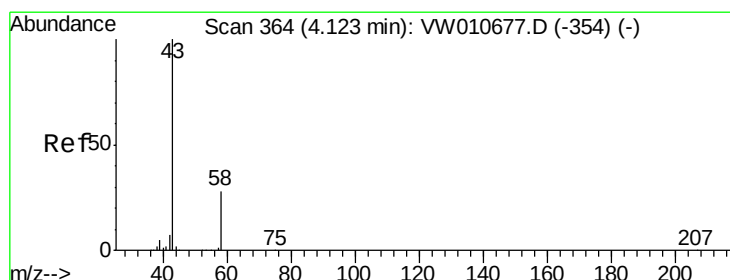
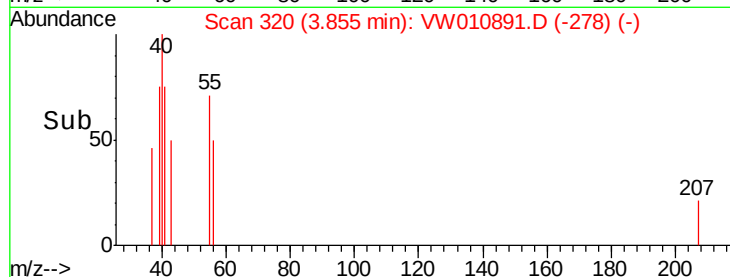
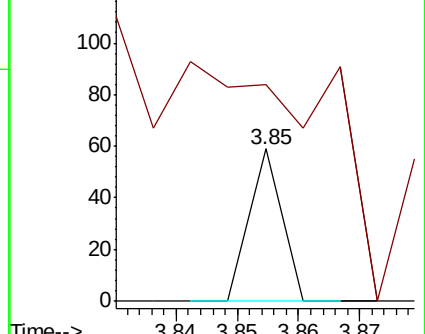
56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 114.224 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010891.D

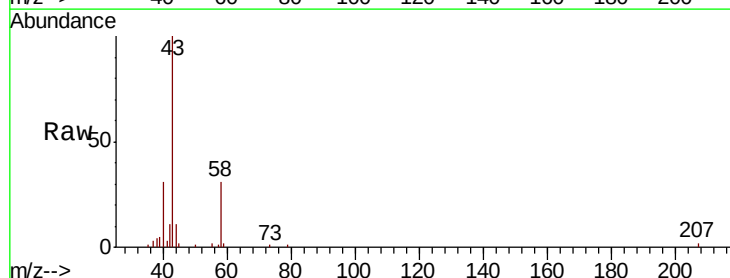
Acq: 20 Jun 2019 14:45

Tgt Ion: 43 Resp: 13867

Ion Ratio Lower Upper

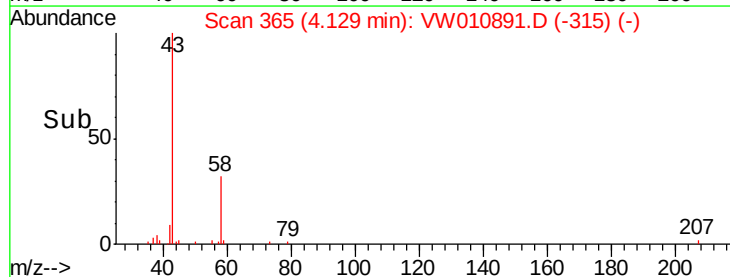
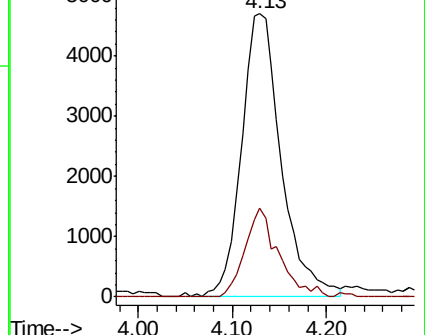
43 100

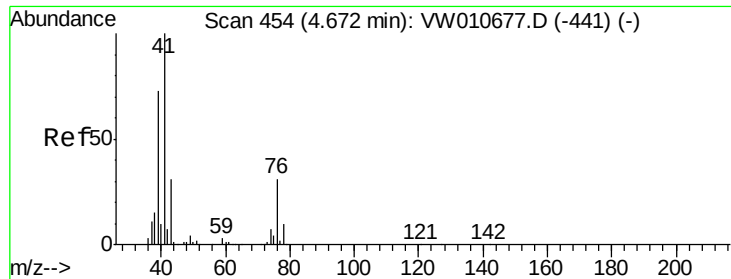
58 31.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

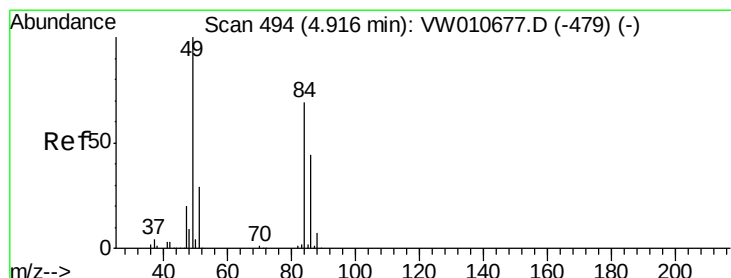
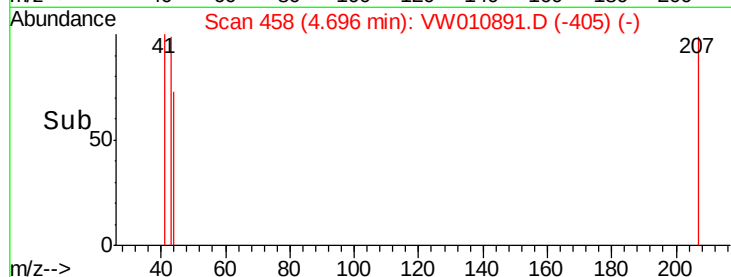
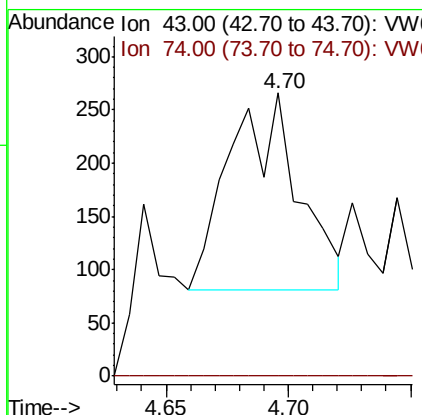
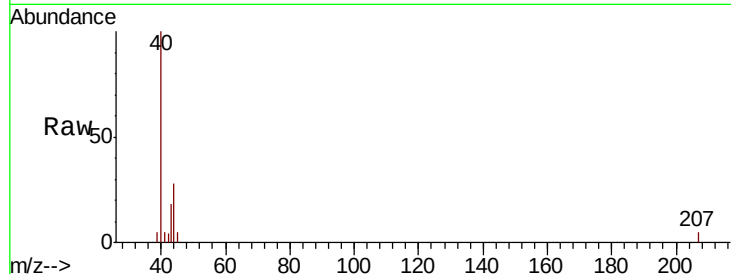




#18
Methyl Acetate
Concen: 1.389 ug/l
RT: 4.70 min Scan# 458
Delta R.T. 0.02 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

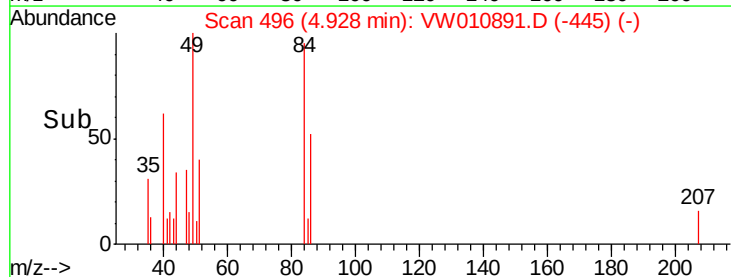
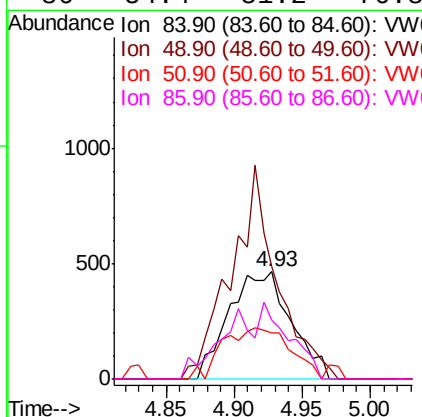
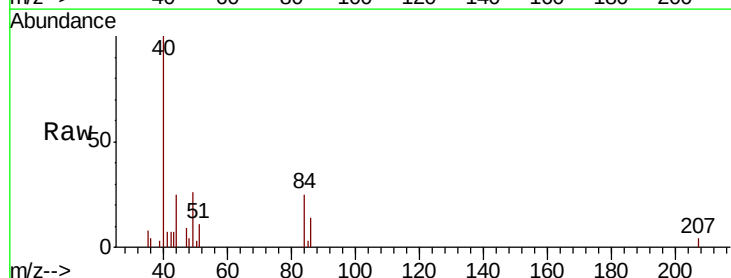
Instrument :
MSVOA_W
ClientSampled :

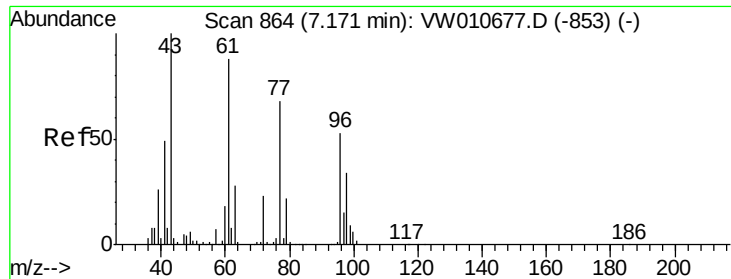
Tot Ion: 43 Resp: 363
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 3.461 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Tgt Ion: 84 Resp: 1474
Ion Ratio Lower Upper
84 100
49 105.4 116.7 175.1#
51 42.4 34.2 51.2
86 54.4 51.2 76.8





#25

2-Butanone

Concen: 10.194 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

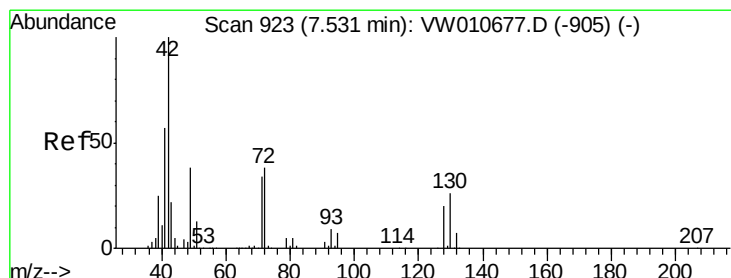
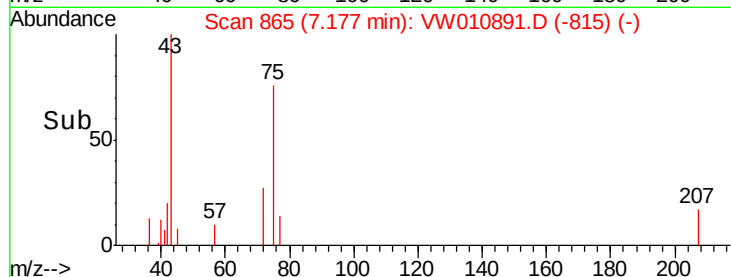
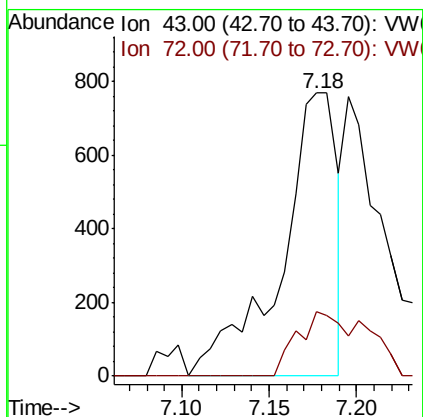
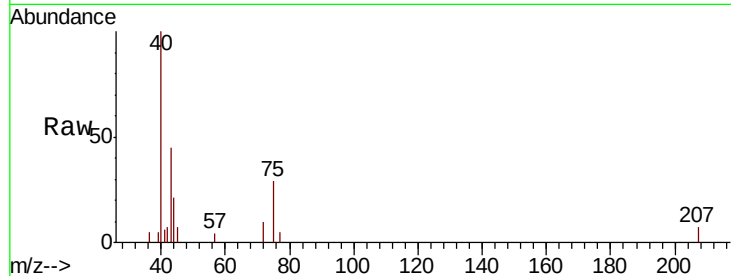
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 1716

Ion Ratio Lower Upper

43 100

72 22.6 18.1 27.1



#29

Tetrahydrofuran

Concen: 1.058 ug/l

RT: 7.52 min Scan# 921

Delta R.T. -0.01 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

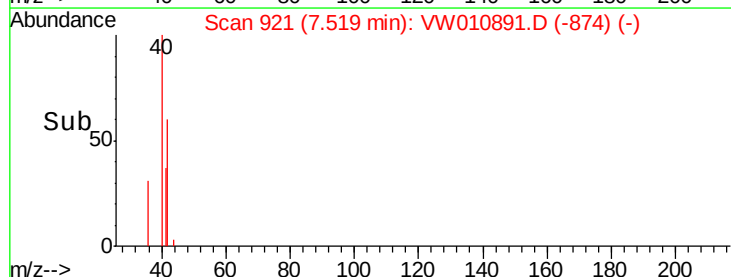
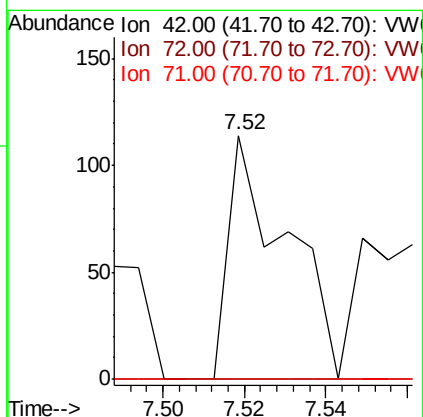
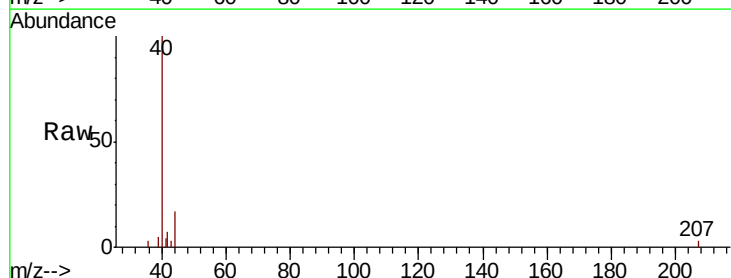
Tgt Ion: 42 Resp: 112

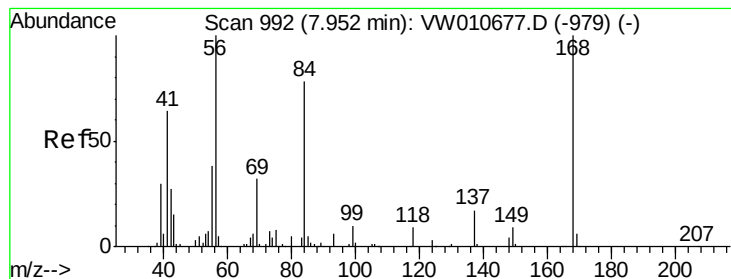
Ion Ratio Lower Upper

42 100

72 0.0 28.7 43.1#

71 0.0 26.6 39.8#





#31

Cyclohexane

Concen: 1.552 ug/l

RT: 7.95 min Scan# 991

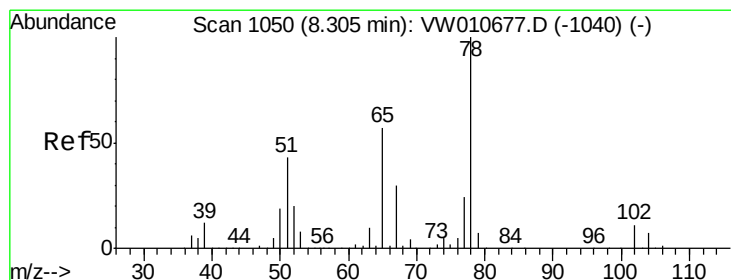
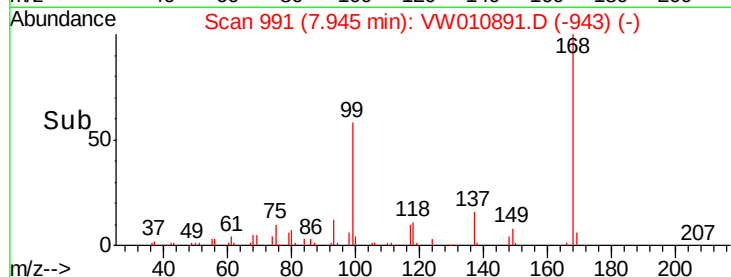
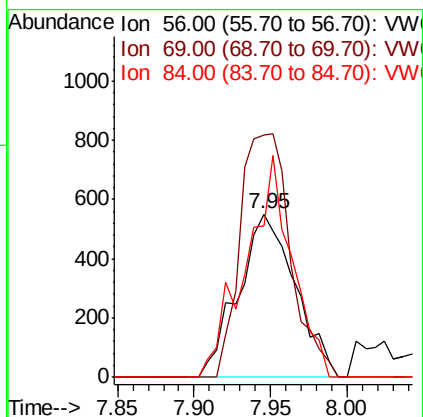
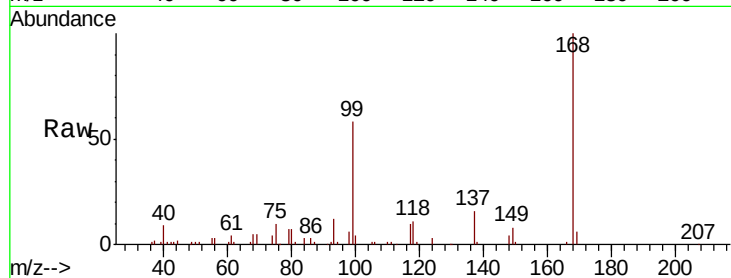
Delta R.T. -0.01 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	56	Resp:	1419
Ion	Ratio	Lower	Upper
56	100		
69	148.4	25.2	37.8#
84	92.4	62.2	93.2



#33

1,2-Dichloroethane-d4

Concen: 54.123 ug/l

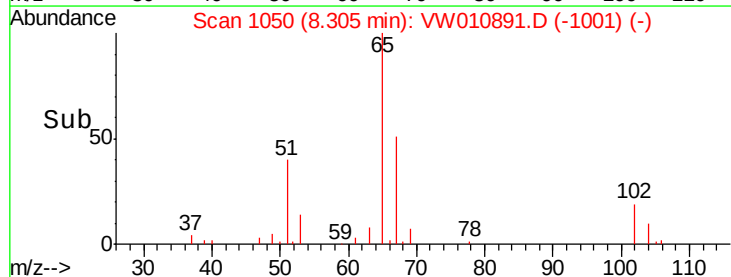
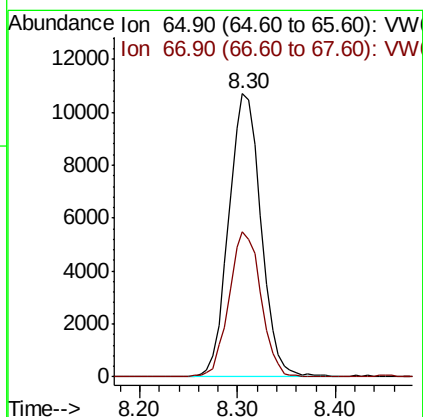
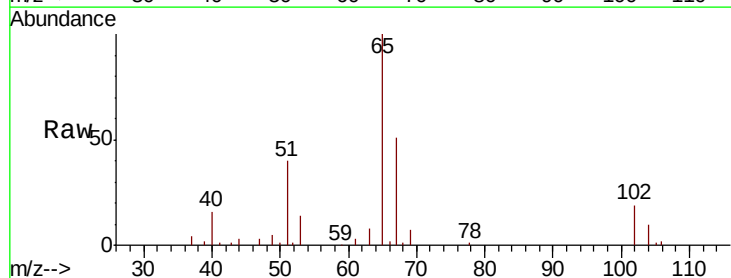
RT: 8.30 min Scan# 1050

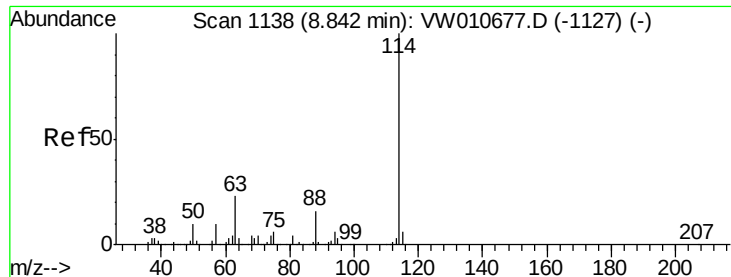
Delta R.T. -0.00 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

Tgt Ion:	65	Resp:	24522
Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

Instrument :

MSVOA_W

ClientSampleId :

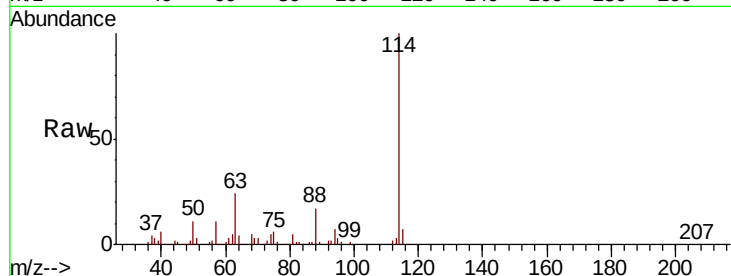
Tot Ion:114 Resp: 58443

Ion Ratio Lower Upper

114 100

63 24.2 0.0 46.4

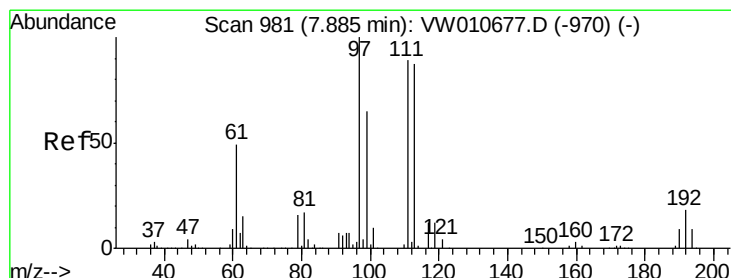
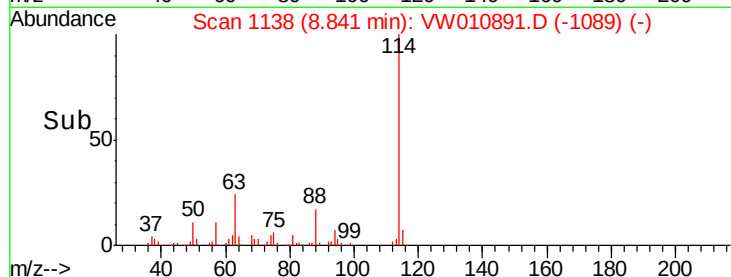
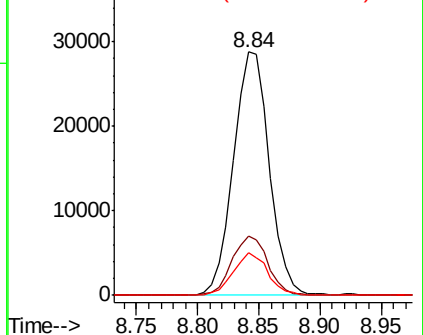
88 17.4 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 50.776 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

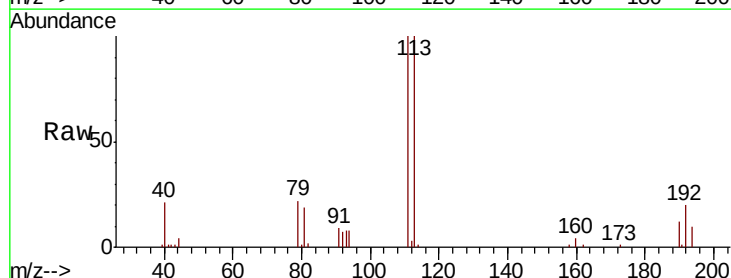
Tgt Ion:113 Resp: 16107

Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

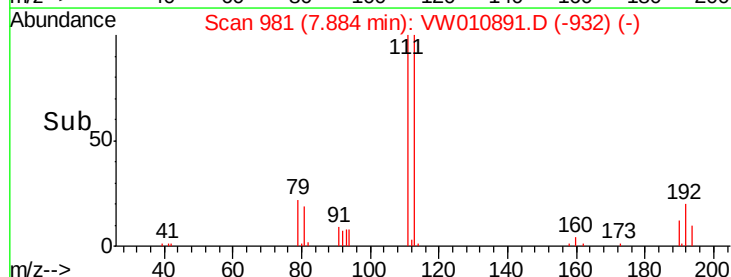
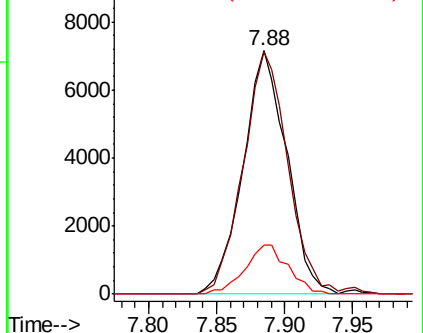
192 20.1 16.4 24.6

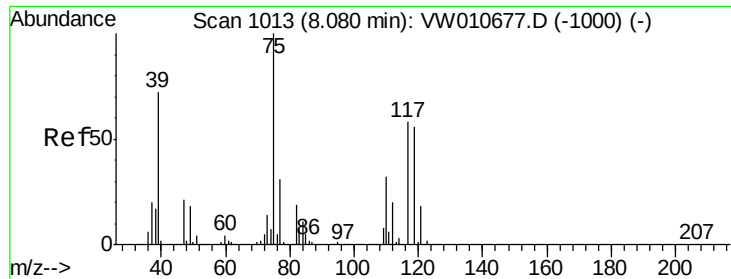


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

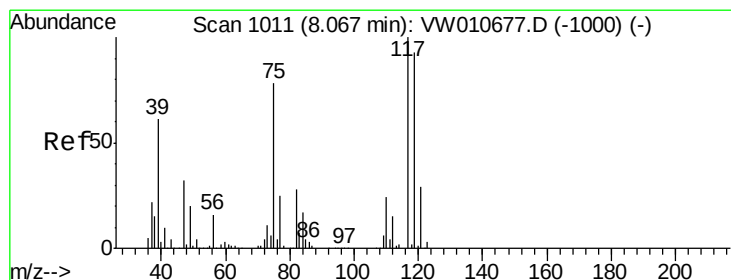
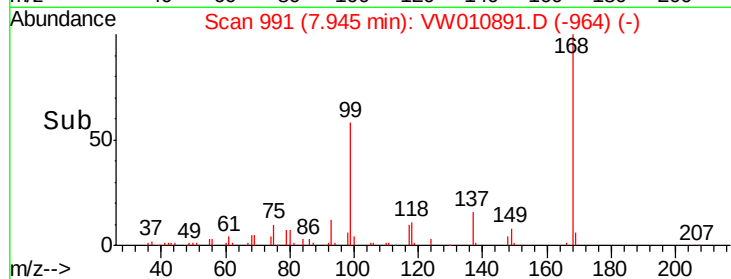
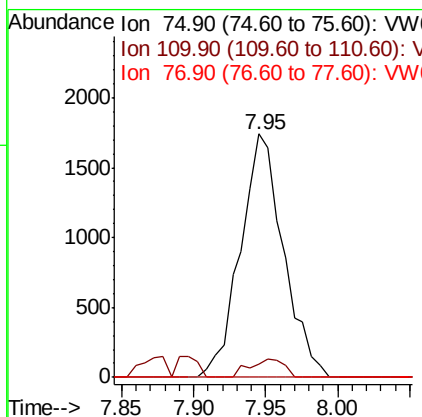
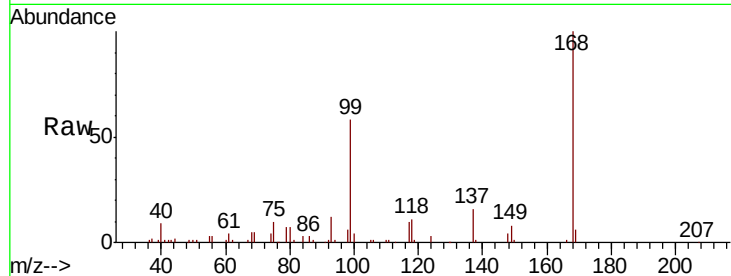




#36
 1,1-Dichloropropene
 Concen: 6.018 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010891.D
 Acq: 20 Jun 2019 14:45

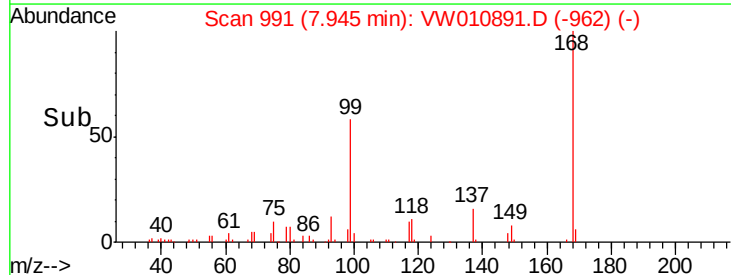
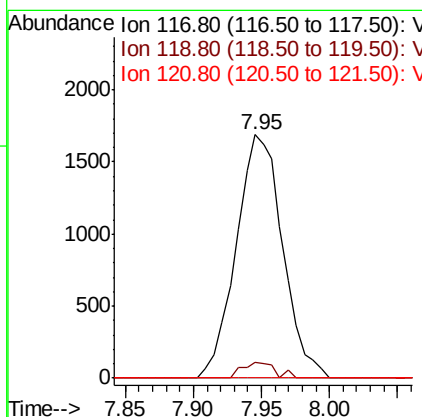
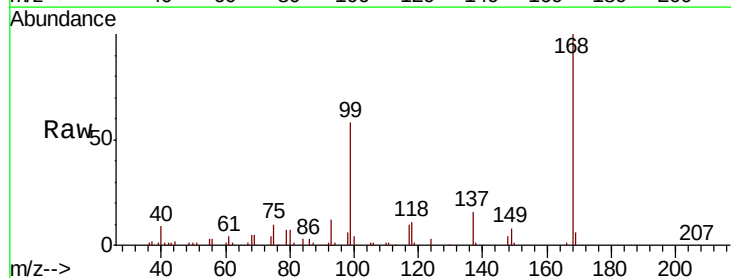
Instrument :
 MSVOA_W
 ClientSampled :

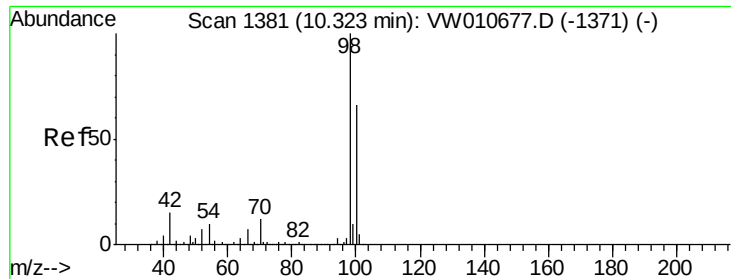
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.1	15.8	47.3#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 7.808 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010891.D
 Acq: 20 Jun 2019 14:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	74.2	111.4#
121	0.0	22.9	34.3#

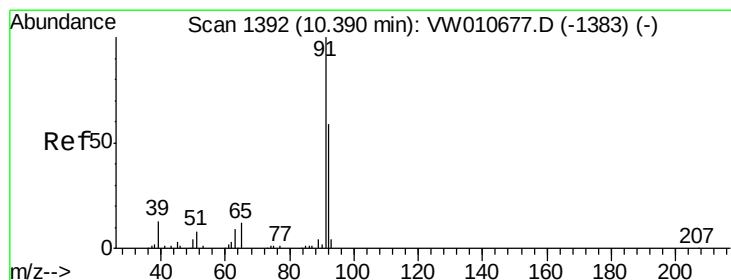
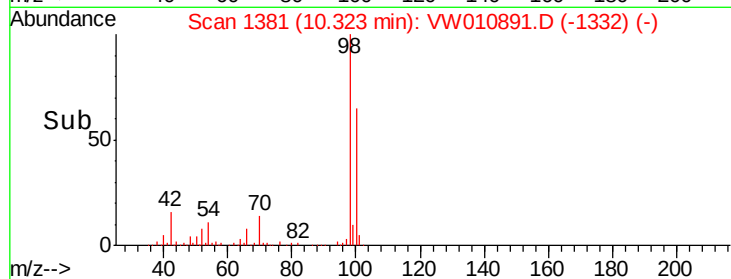
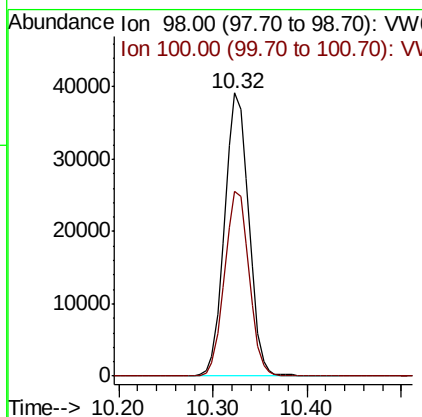
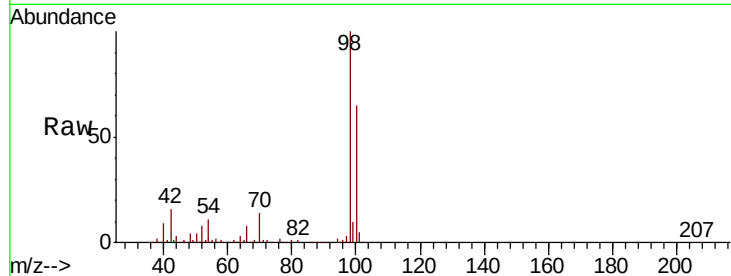




#50
Toluene-d8
Concen: 50.279 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

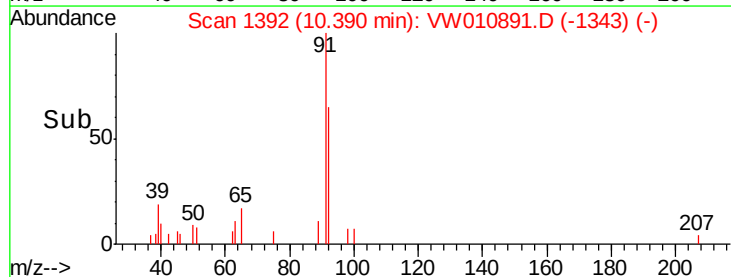
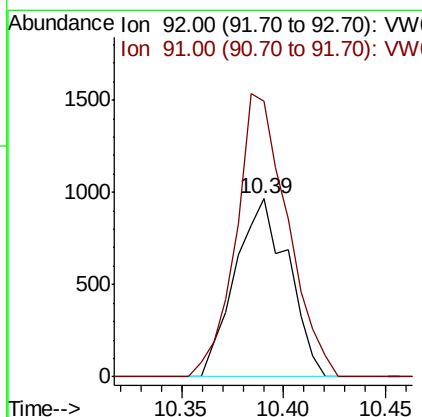
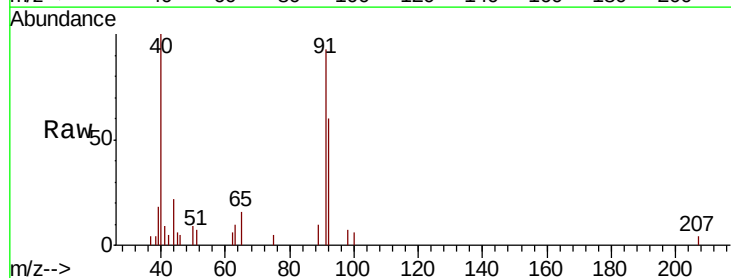
Instrument :
MSVOA_W
ClientSampled :

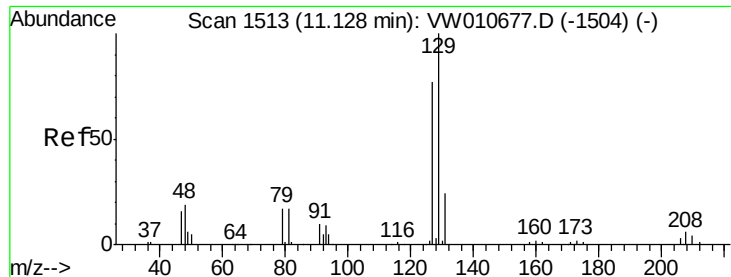
Tot Ion: 98 Resp: 69939
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.6



#52
Toluene
Concen: 1.744 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Tgt Ion: 92 Resp: 1751
Ion Ratio Lower Upper
92 100
91 154.1 134.9 202.3

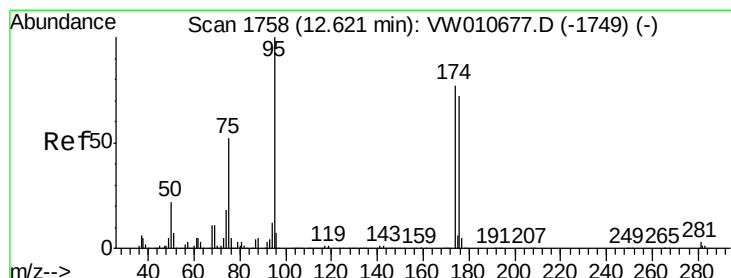
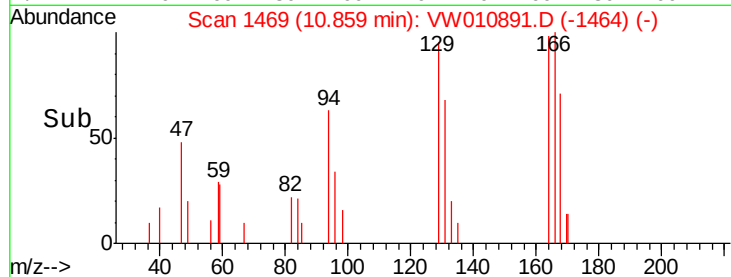
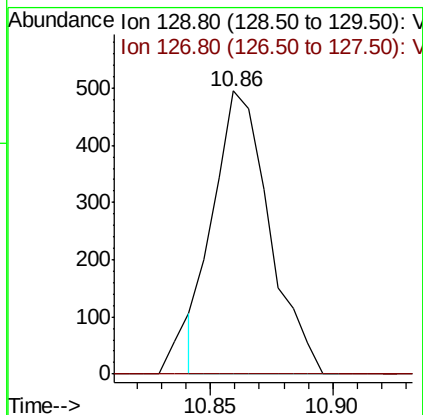
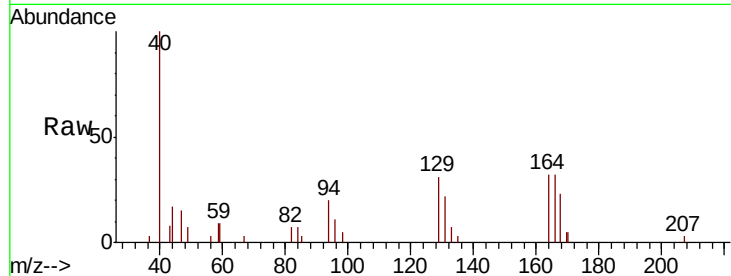




#60
 Dibromochloromethane
 Concen: 2.450 ug/l
 RT: 10.86 min Scan# 1469
 Delta R.T. -0.27 min
 Lab File: VW010891.D
 Acq: 20 Jun 2019 14:45

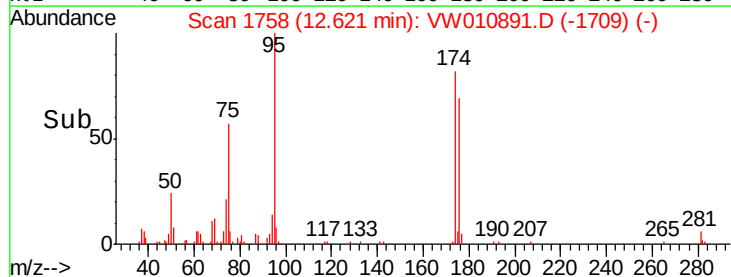
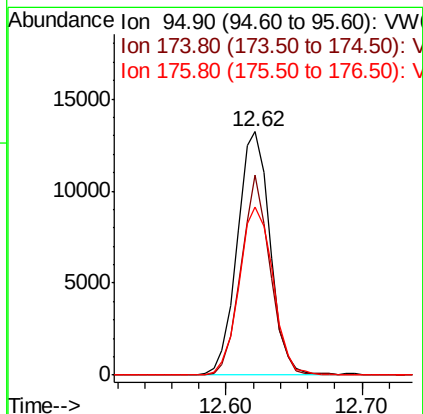
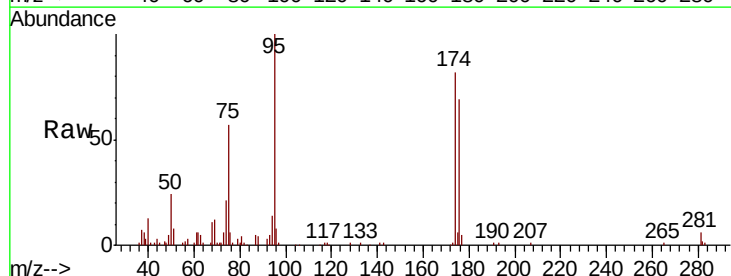
Instrument :
 MSVOA_W
 ClientSampled :

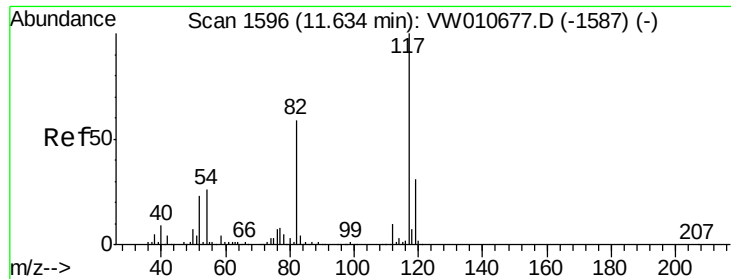
Tot Ion:129 Resp: 785
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 43.882 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW010891.D
 Acq: 20 Jun 2019 14:45

Tgt Ion: 95 Resp: 22212
 Ion Ratio Lower Upper
 95 100
 174 73.2 0.0 150.4
 176 71.4 0.0 144.8

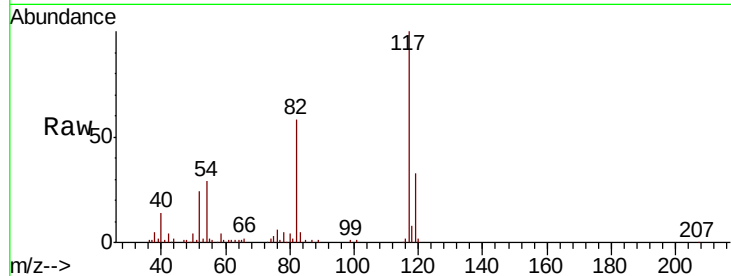




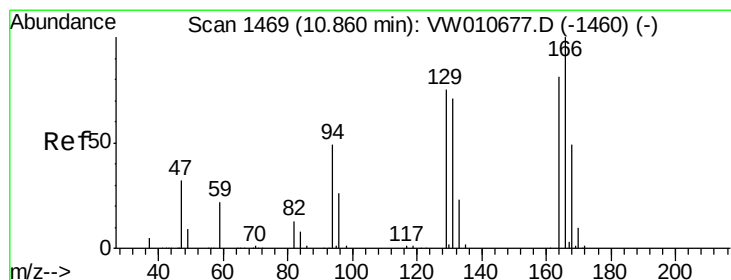
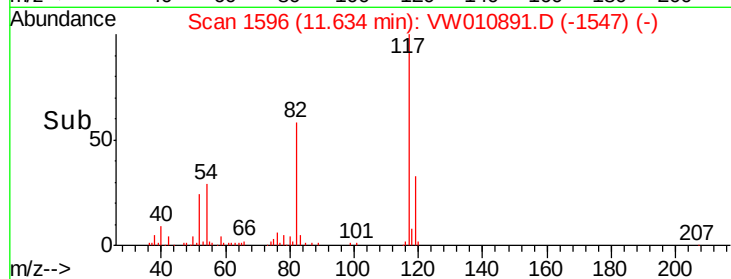
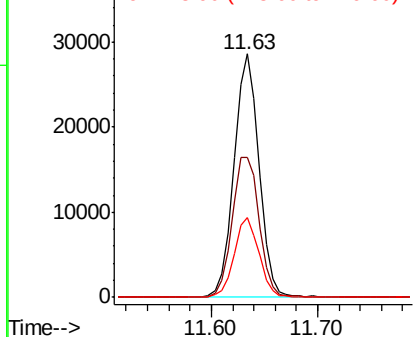
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 47140
Ion Ratio Lower Upper
117 100
82 57.7 47.0 70.4
119 33.0 25.1 37.7

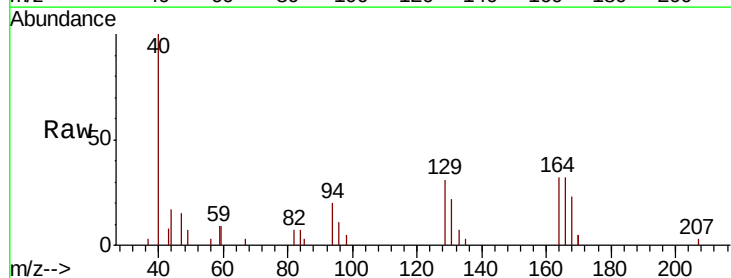


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

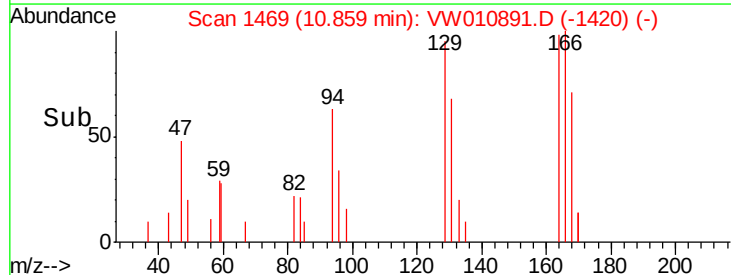
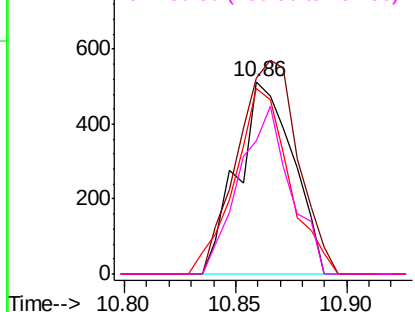


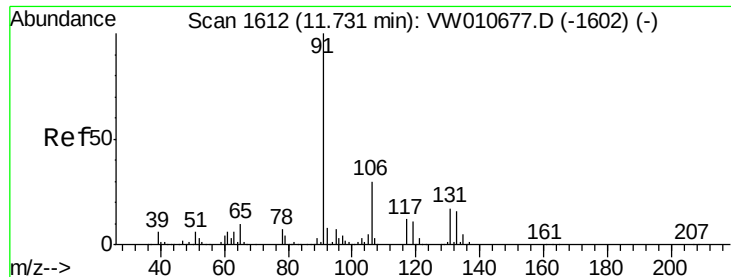
#64
Tetrachloroethene
Concen: 2.824 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Tgt Ion:164 Resp: 884
Ion Ratio Lower Upper
164 100
166 101.6 99.2 148.8
129 96.3 74.6 112.0
131 68.9 70.2 105.4#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

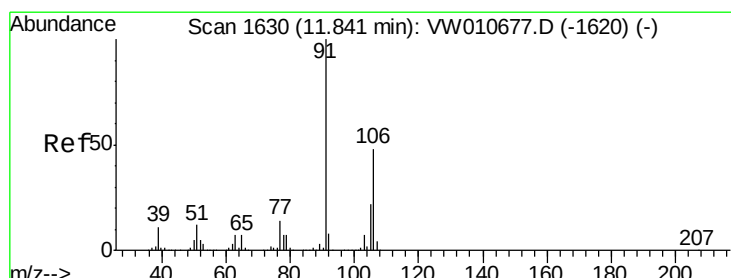
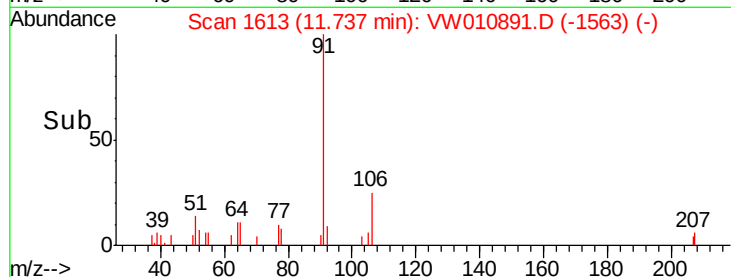
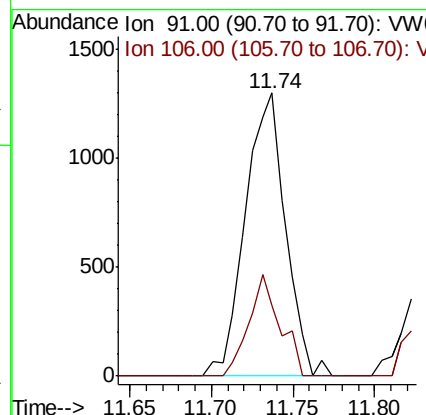
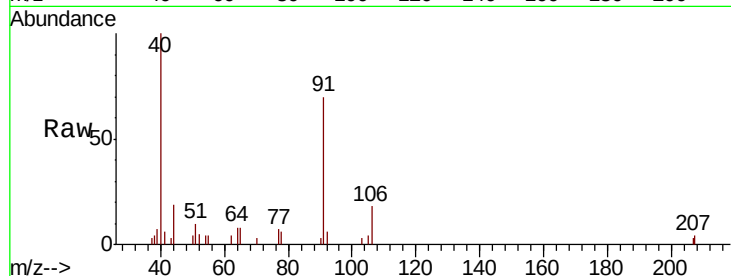




#67
Ethyl Benzene
Concen: 1.251 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

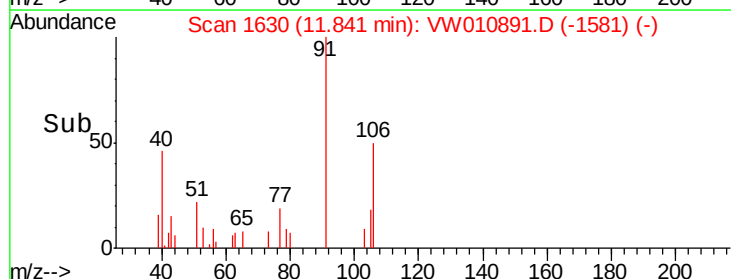
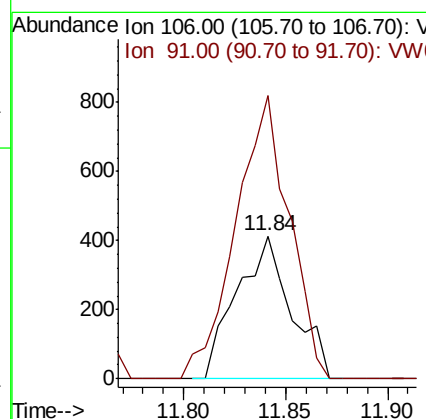
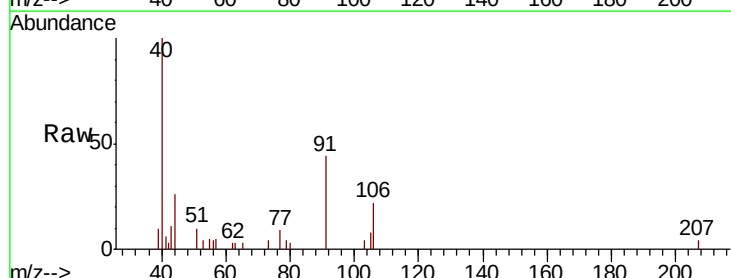
Instrument :
MSVOA_W
ClientSampled :

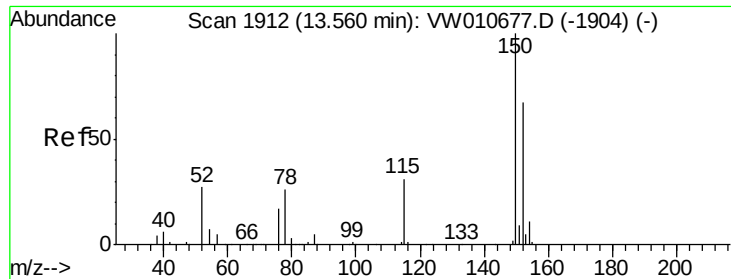
Tot Ion: 91 Resp: 2229
Ion Ratio Lower Upper
91 100
106 24.9 24.2 36.4



#68
m/p-Xylenes
Concen: 1.211 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Tgt Ion: 106 Resp: 772
Ion Ratio Lower Upper
106 100
91 193.9 166.5 249.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

Lab File: VW010891.D

Acq: 20 Jun 2019 14:45

Instrument :

MSVOA_W

ClientSampleId :

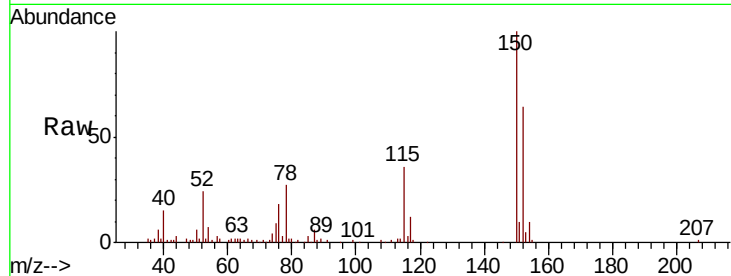
Tot Ion:152 Resp: 18014

Ion Ratio Lower Upper

152 100

115 60.5 29.8 89.3

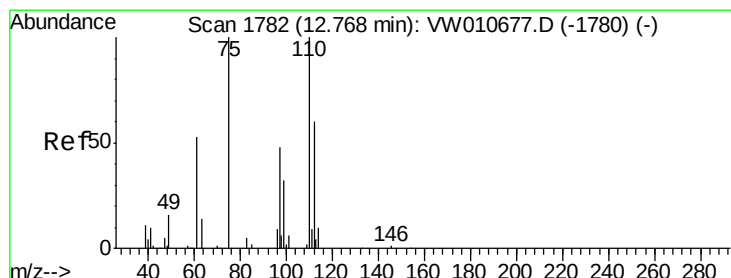
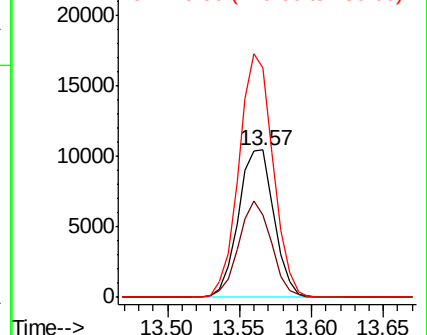
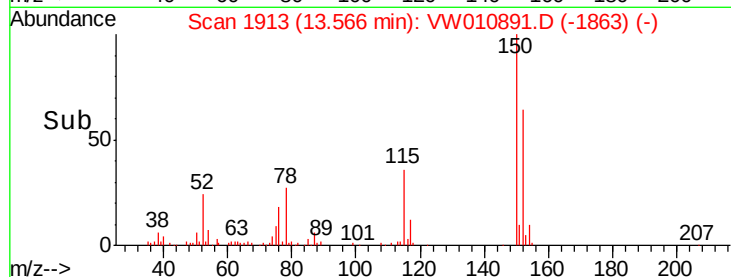
150 157.8 0.0 345.0



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: 66.368 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010891.D

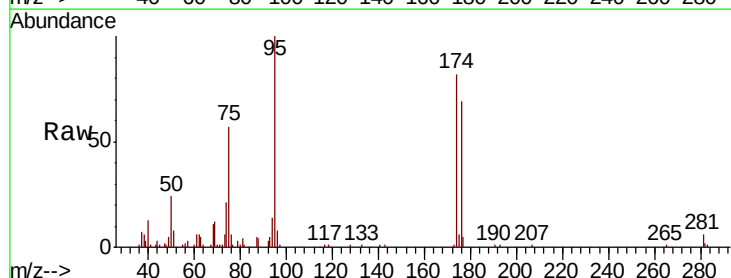
Acq: 20 Jun 2019 14:45

Tgt Ion: 75 Resp: 12555

Ion Ratio Lower Upper

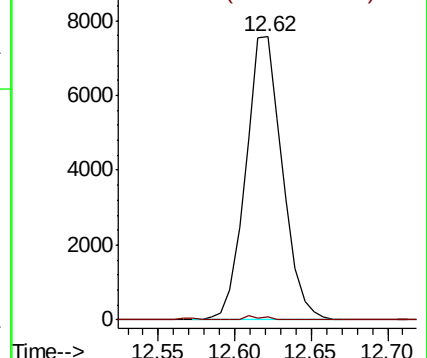
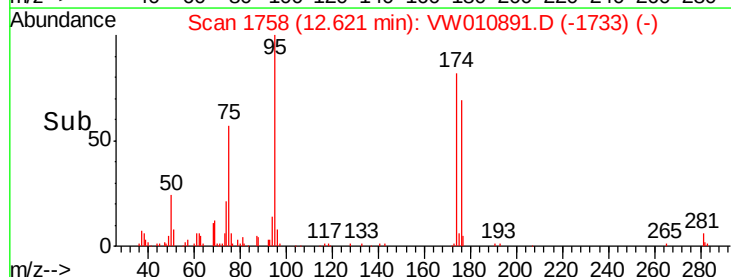
75 100

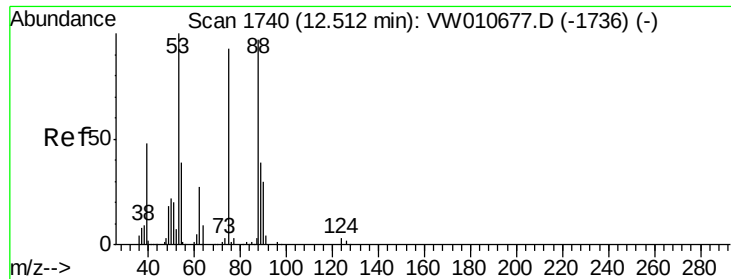
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

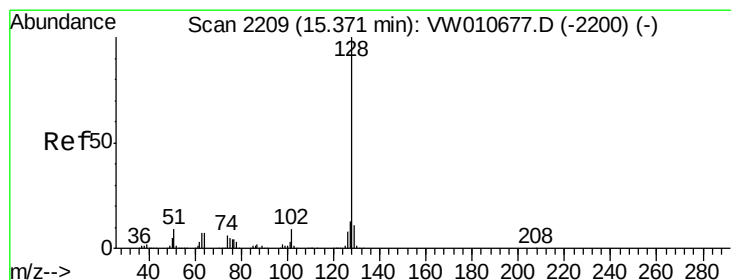
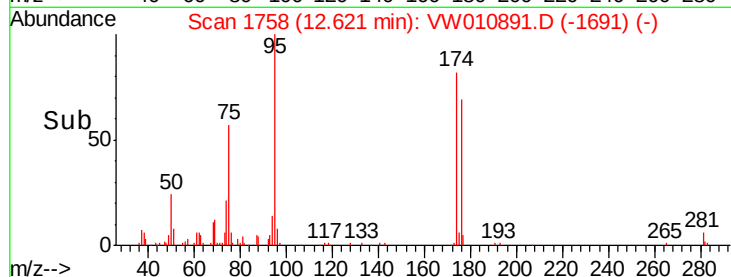
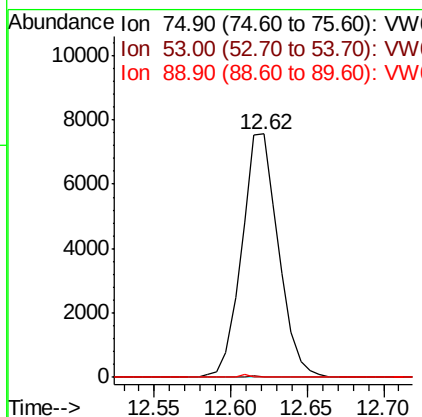
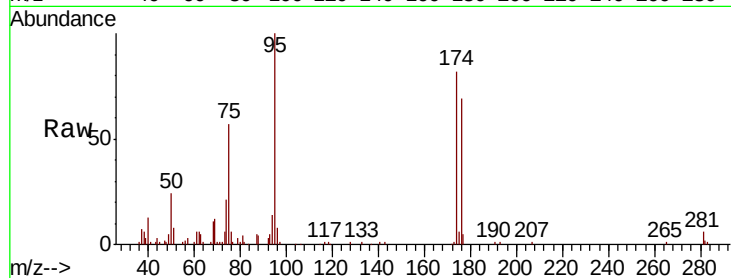




#81
trans-1,4-Dichloro-2-butene
Concen: 152.536 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 75 Resp: 12555
Ion Ratio Lower Upper
75 100
53 0.2 90.1 135.1#
89 0.3 34.6 52.0#



#95
Naphthalene
Concen: 2.554 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010891.D
Acq: 20 Jun 2019 14:45

Tgt Ion: 128 Resp: 1669
Ion Ratio Lower Upper
128 100
127 18.4 10.6 15.8#
129 19.6 8.6 13.0#

