

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052219\
 Data File : VW010516.D
 Acq On : 22 May 2019 17:51
 Operator : SY/VA
 Sample : K3002-09
 Misc : 5.02G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 23-C7-20190417

Quant Time: May 23 06:59:02 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	122165	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	223839	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	179633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	66760	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	32580	25.84	ug/l	0.00
Spiked Amount			Recovery	=	51.68%	
35) Dibromofluoromethane	7.88	113	34175	25.16	ug/l	0.00
Spiked Amount			Recovery	=	50.32%	
50) Toluene-d8	10.32	98	115153	22.19	ug/l	0.00
Spiked Amount			Recovery	=	44.38%	
62) 4-Bromofluorobenzene	12.62	95	42664	20.64	ug/l	0.00
Spiked Amount			Recovery	=	41.28%	

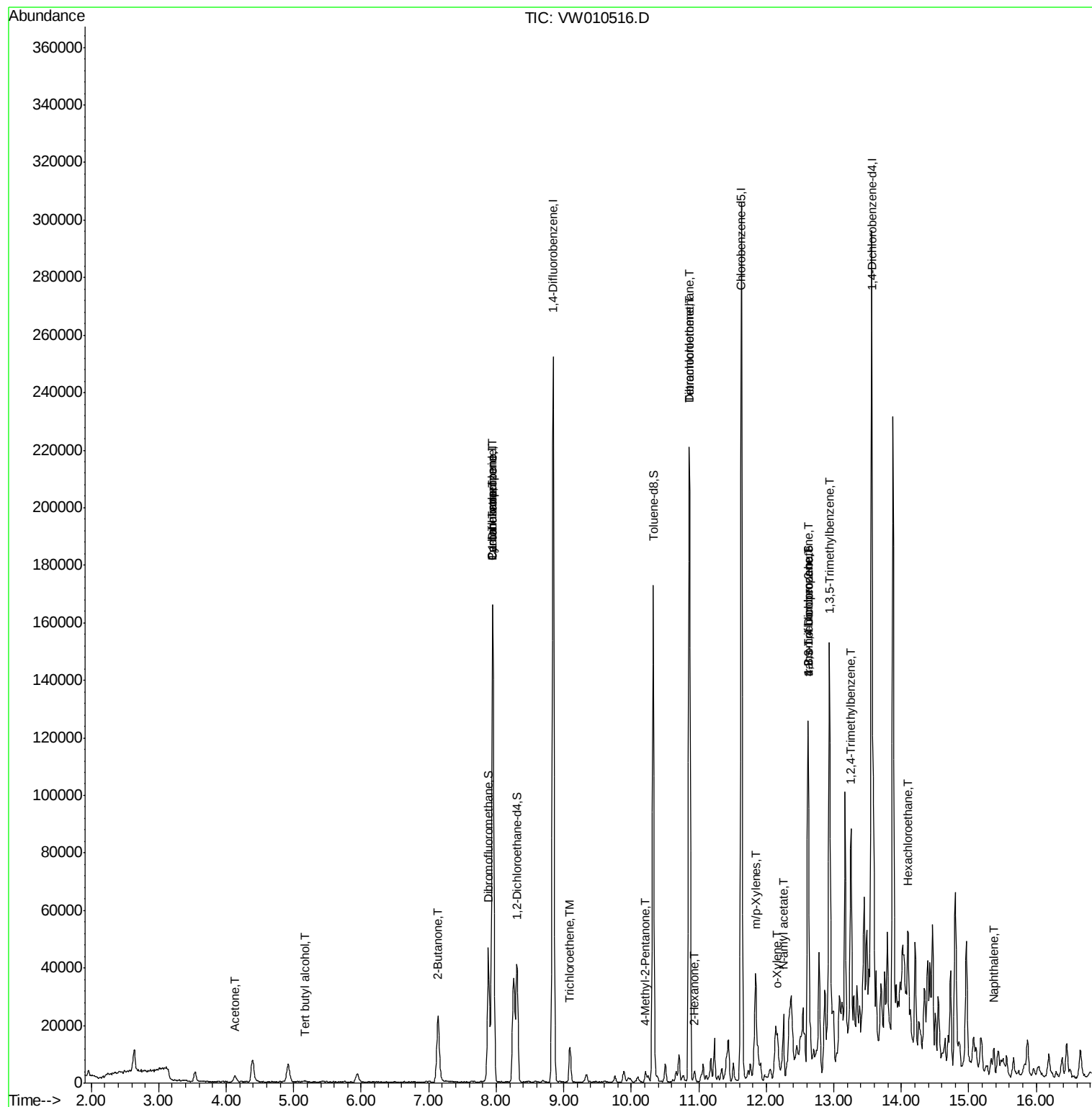
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.17	59	564	4.973	ug/l #	71
16) Acetone	4.12	43	4165	16.182	ug/l	96
20) Methylene Chloride	4.92	84	5074	Below Cal		93
25) 2-Butanone	7.12	43	554	1.504	ug/l #	45
31) Cyclohexane	7.95	56	2656	1.109	ug/l #	16
36) 1,1-Dichloropropene	7.95	75	9869	4.733	ug/l #	48
38) Carbon Tetrachloride	7.95	117	13088	5.819	ug/l #	15
44) Trichloroethene	9.09	130	4302	2.500	ug/l	94
51) 4-Methyl-2-Pentanone	10.21	43	2768	3.084	ug/l	91
59) 2-Hexanone	10.94	43	1498	2.339	ug/l #	22
60) Dibromochloromethane	10.86	129	46078	31.452	ug/l #	10
64) Tetrachloroethene	10.86	164	49000	39.131	ug/l	97
68) m/p-Xylenes	11.84	106	4619	1.742	ug/l	99
69) o-Xylene	12.17	106	3209	1.278	ug/l	98
74) N-amyl acetate	12.26	43	4500	3.707	ug/l #	66
76) 1,2,3-Trichloropropane	12.62	75	20201	29.810	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	19998	4.457	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	20201	62.214	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.26	105	41439	9.273	ug/l	97
90) Hexachloroethane	14.10	117	1783	1.856	ug/l #	15
95) Naphthalene	15.37	128	8190	2.706	ug/l	96

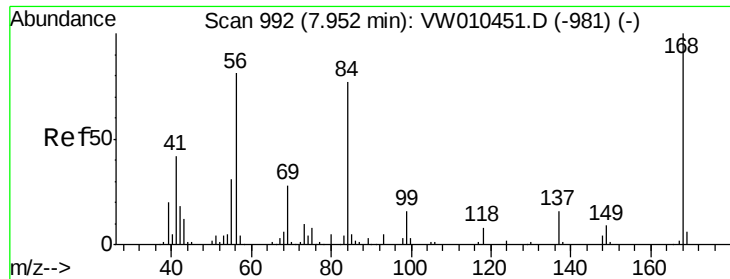
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW010516.D

Acq: 22 May 2019 17:51

Instrument :

MSVOA_W

ClientSampleId :

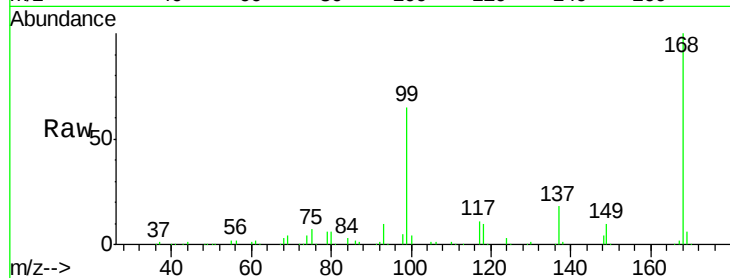
23-C7-20190417

Tot Ion:168 Resp: 122165

Ion Ratio Lower Upper

168 100

99 65.2 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

60000

50000

40000

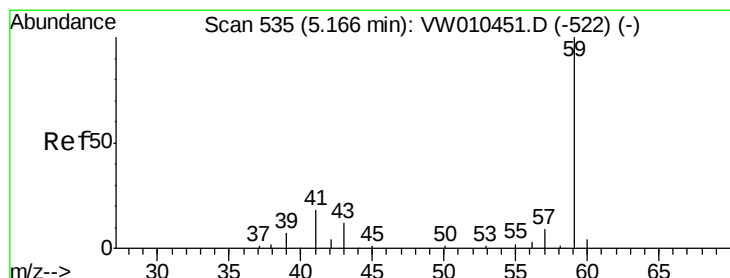
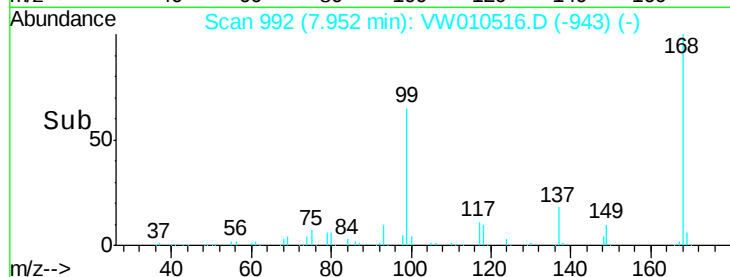
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.973 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.00 min

Lab File: VW010516.D

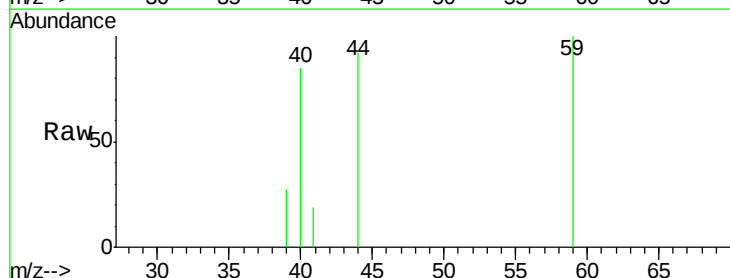
Acq: 22 May 2019 17:51

Tgt Ion: 59 Resp: 564

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

300

250

200

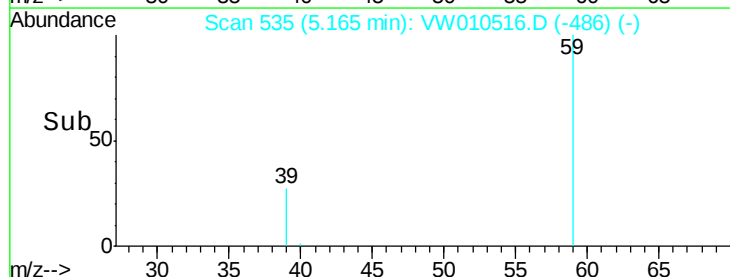
150

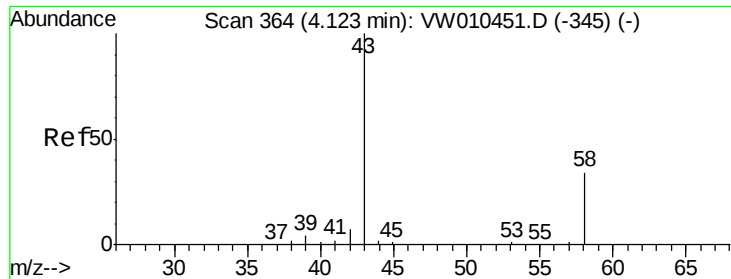
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50

0

Time-->

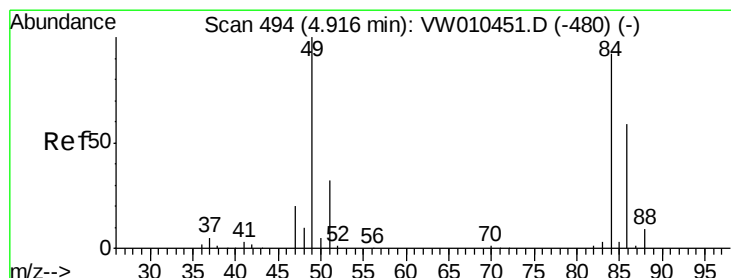
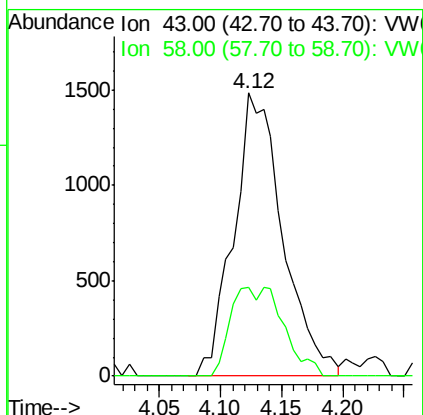
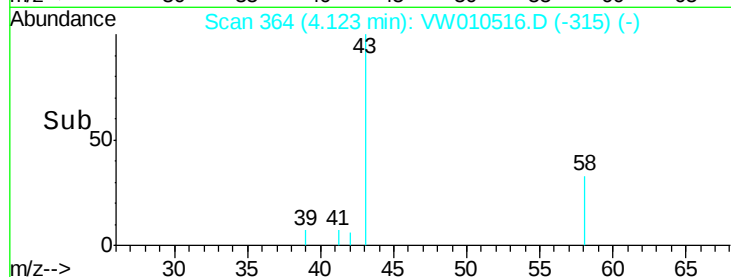
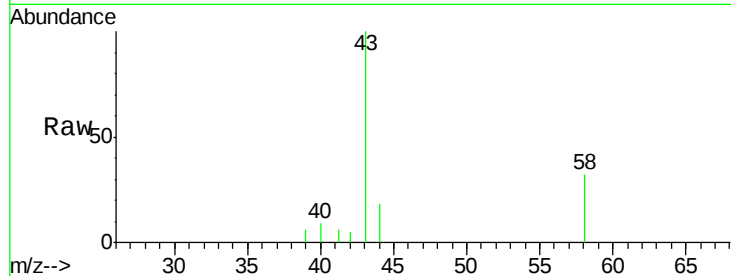




#16
Acetone
Concen: 16.182 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.00 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

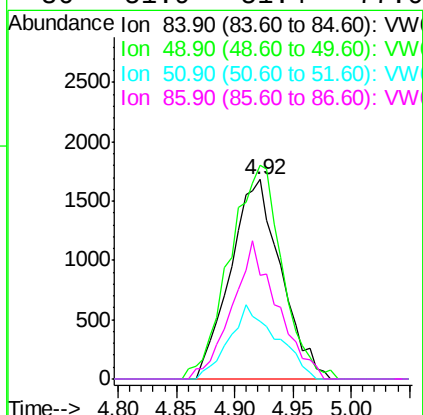
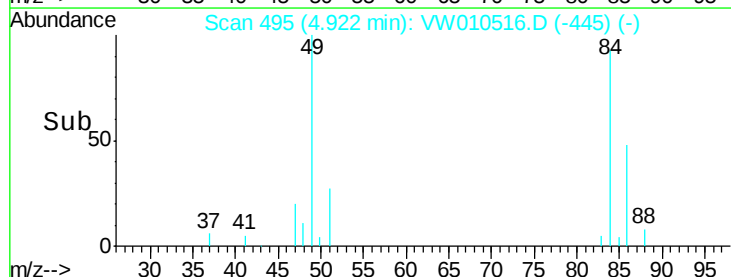
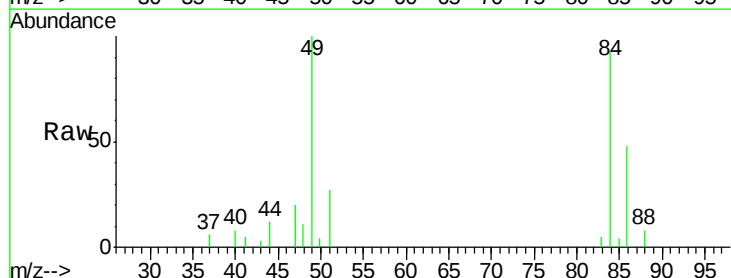
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23-C7-20190417

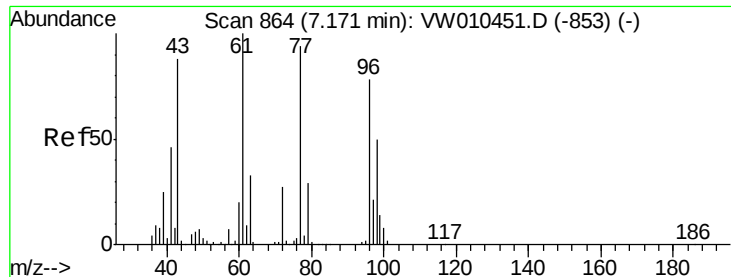
Tot Ion: 43 Resp: 4165
Ion Ratio Lower Upper
43 100
58 31.6 27.0 40.4



#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

Tgt Ion: 84 Resp: 5074
Ion Ratio Lower Upper
84 100
49 107.3 87.2 130.8
51 28.9 27.7 41.5
86 51.9 51.4 77.0





#25

2-Butanone

Concen: 1.504 ug/l

RT: 7.12 min Scan# 856

Delta R.T. -0.05 min

Lab File: VW010516.D

Acq: 22 May 2019 17:51

Instrument :

MSVOA_W

ClientSampleId :

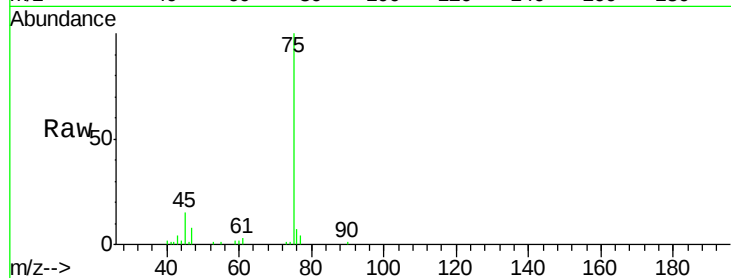
23-C7-20190417

Tot Ion: 43 Resp: 554

Ion Ratio Lower Upper

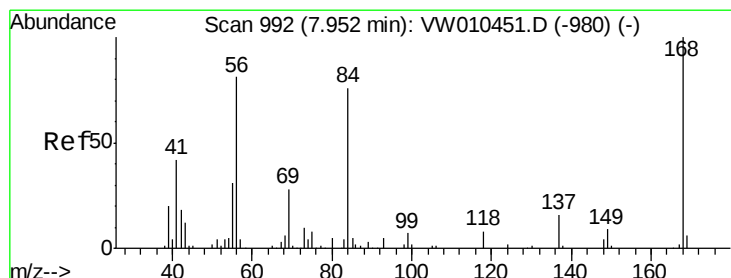
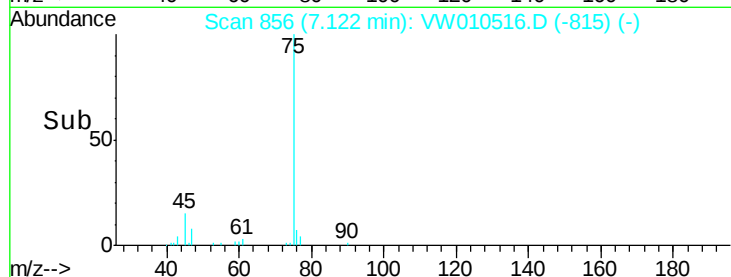
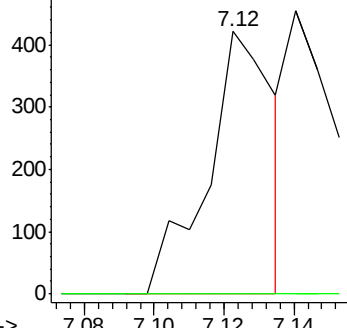
43 100

72 0.0 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#31

Cyclohexane

Concen: 1.109 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010516.D

Acq: 22 May 2019 17:51

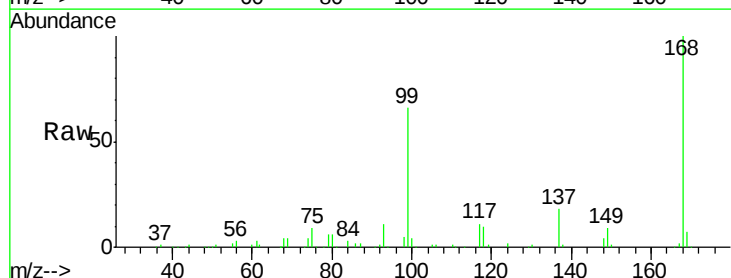
Tgt Ion: 56 Resp: 2656

Ion Ratio Lower Upper

56 100

69 168.8 28.2 42.2#

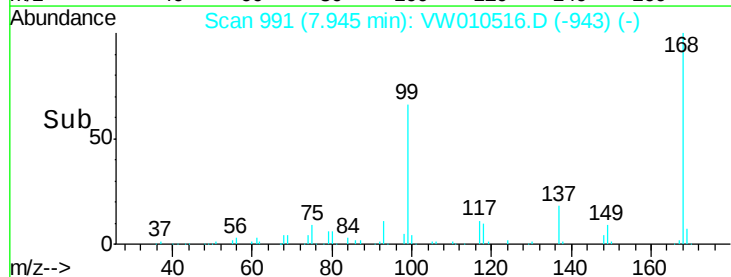
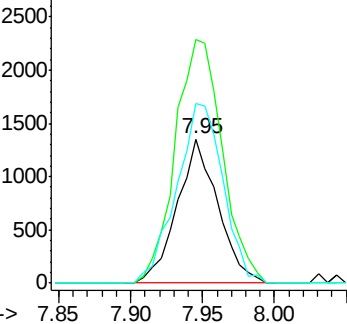
84 124.5 75.8 113.8#

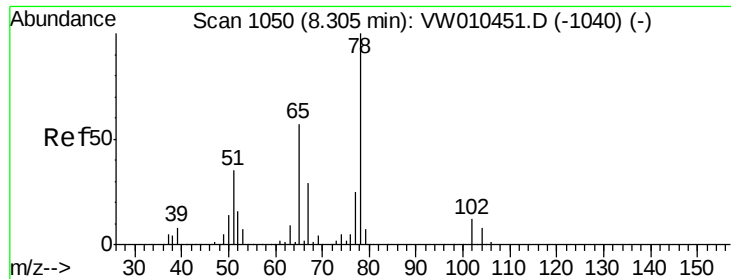


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

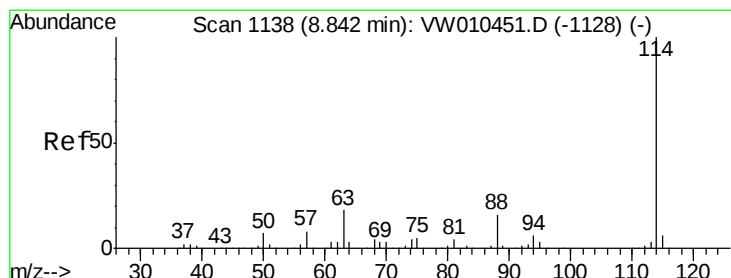
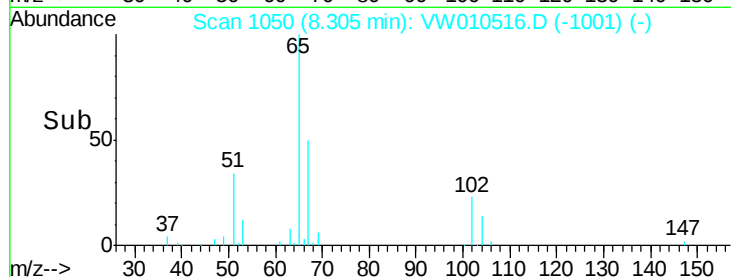
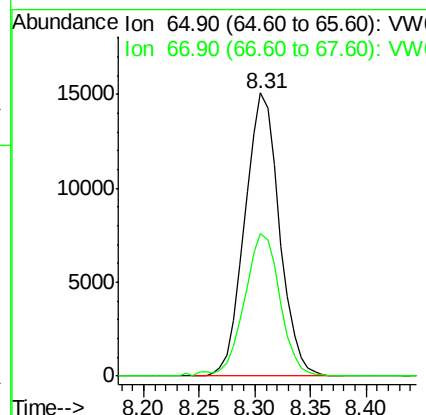
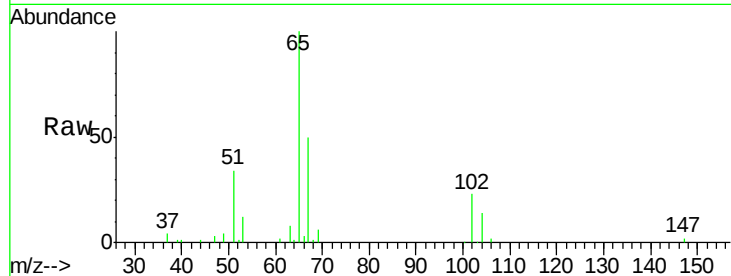




#33
 1,2-Dichloroethane-d4
 Concen: 25.838 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW010516.D
 Acq: 22 May 2019 17:51

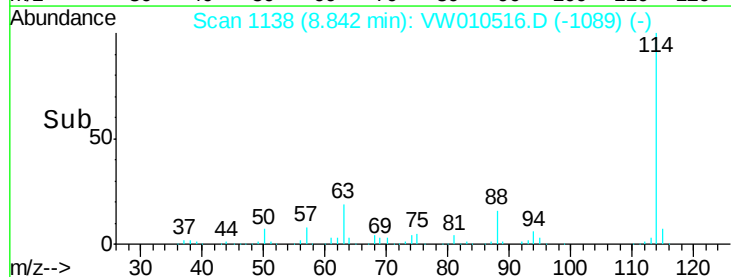
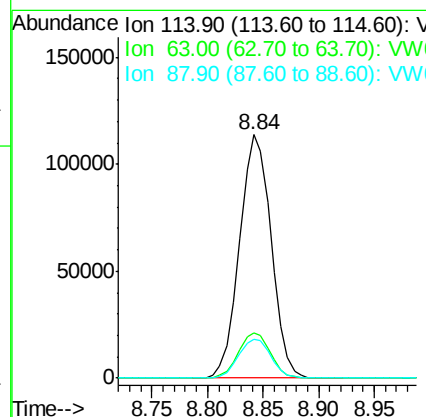
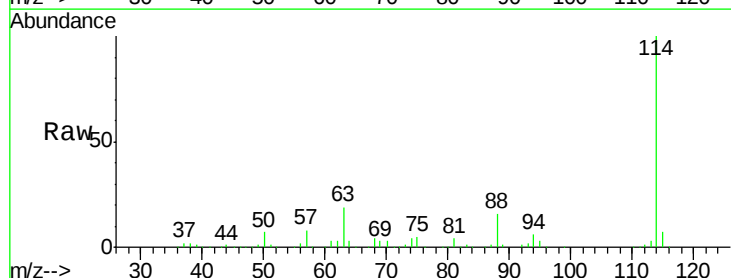
Instrument :
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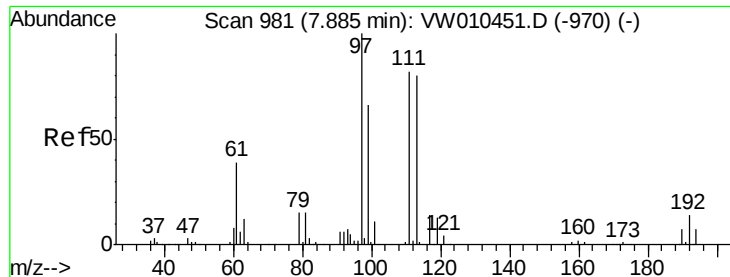
Tot Ion: 65 Resp: 32580
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010516.D
 Acq: 22 May 2019 17:51

Tgt Ion: 114 Resp: 223839
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 36.0
 88 15.7 0.0 32.0

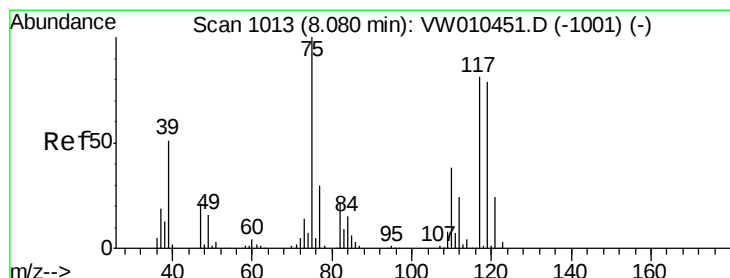
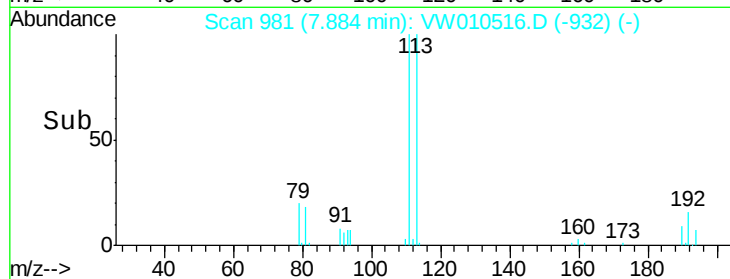
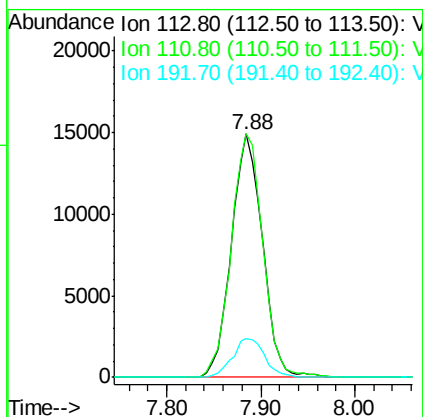
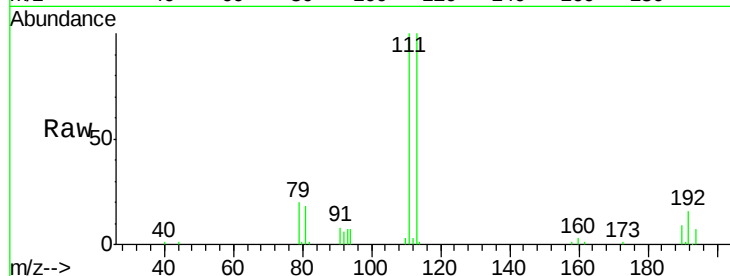




#35
 Dibromofluoromethane
 Concen: 25.162 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW010516.D
 Acq: 22 May 2019 17:51

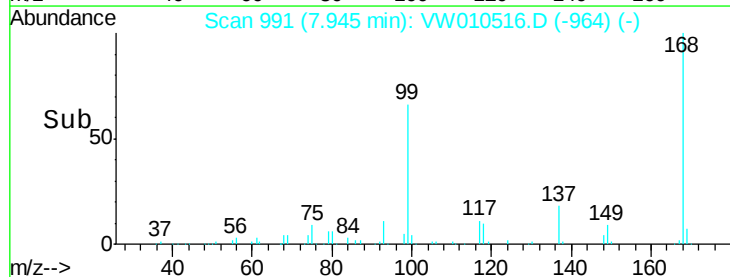
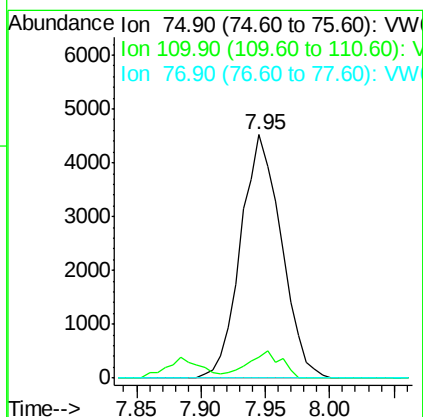
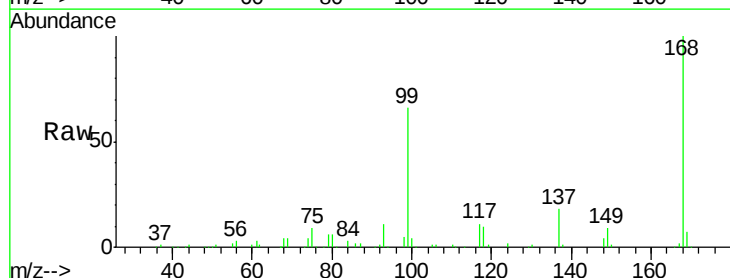
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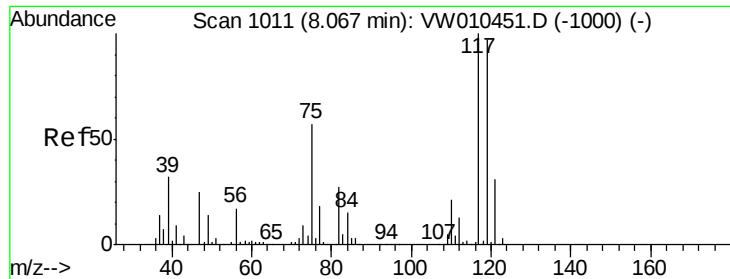
Tot Ion:113 Resp: 34175
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.2 123.4
 192 16.5 14.3 21.5



#36
 1,1-Dichloropropene
 Concen: 4.733 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010516.D
 Acq: 22 May 2019 17:51

Tgt Ion: 75 Resp: 9869
 Ion Ratio Lower Upper
 75 100
 110 9.1 19.2 57.6#
 77 0.0 25.2 37.8#

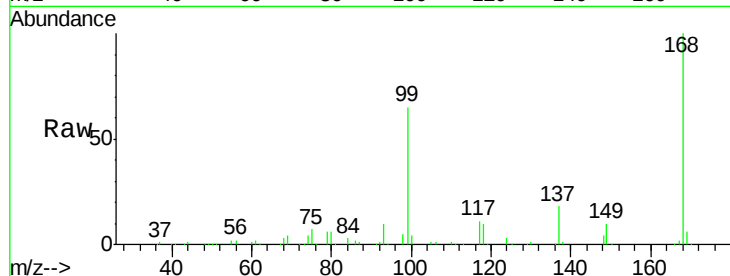




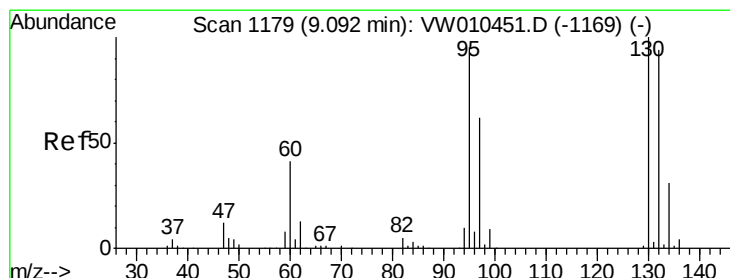
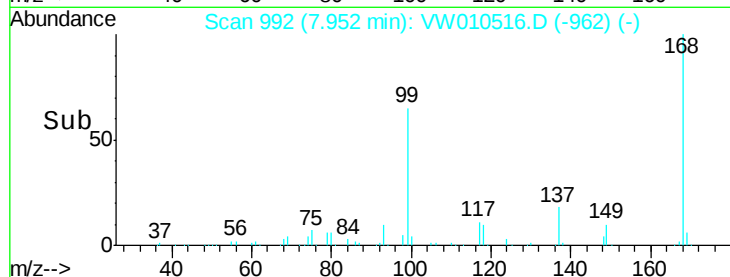
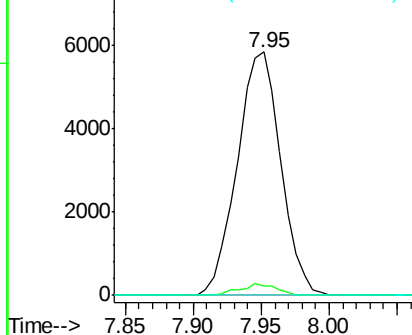
#38
Carbon Tetrachloride
Concen: 5.819 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

Instrument :
MSVOA_W
ClientSampleId :
23-C7-20190417

Tot Ion:117 Resp: 13088
Ion Ratio Lower Upper
117 100
119 3.9 77.4 116.0#
121 0.0 25.0 37.6#

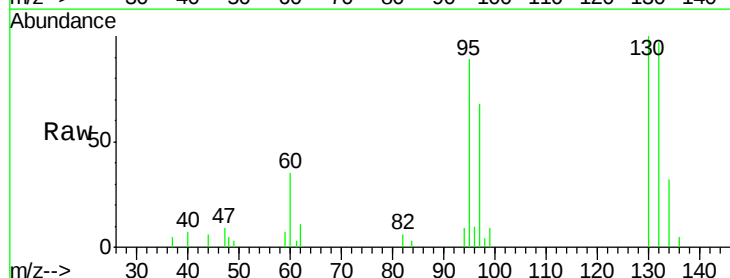


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

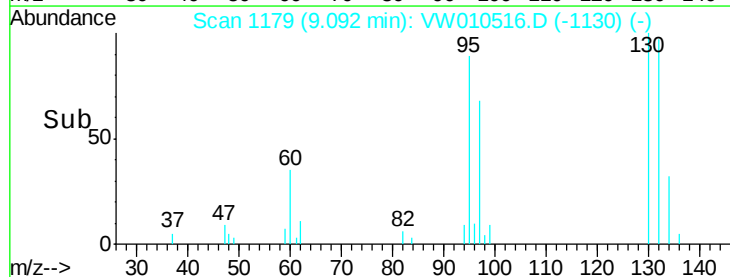
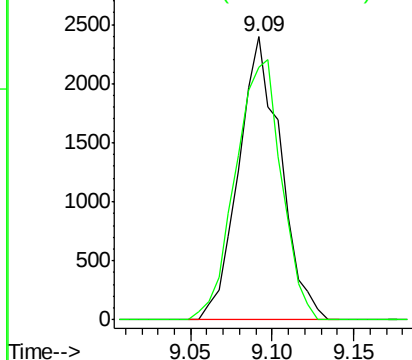


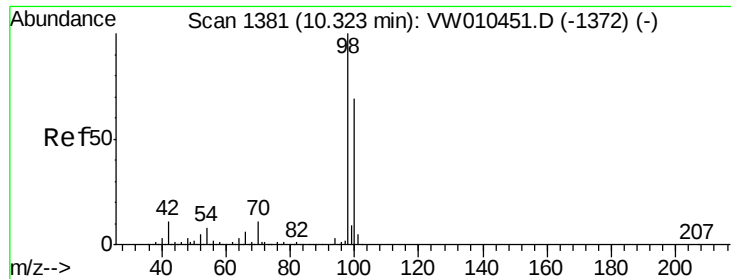
#44
Trichloroethene
Concen: 2.500 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

Tgt Ion:130 Resp: 4302
Ion Ratio Lower Upper
130 100
95 89.3 0.0 189.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 22.193 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010516.D

Acq: 22 May 2019 17:51

Instrument :

MSVOA_W

ClientSampleId :

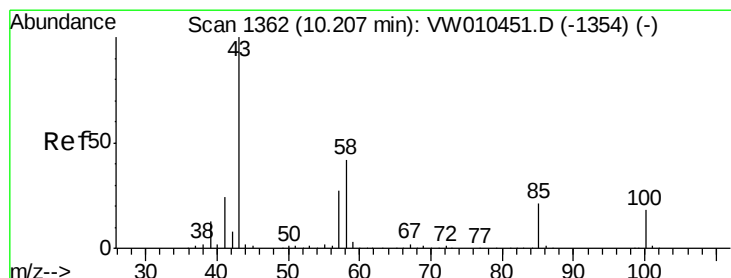
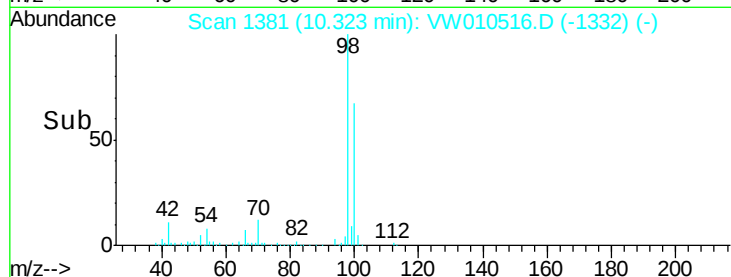
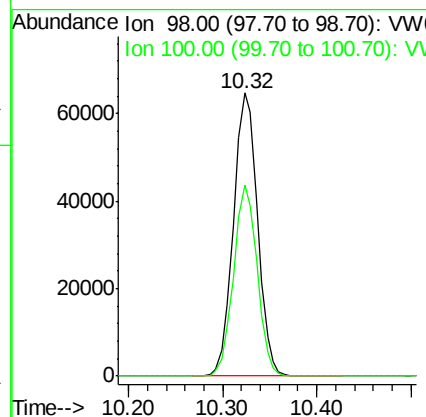
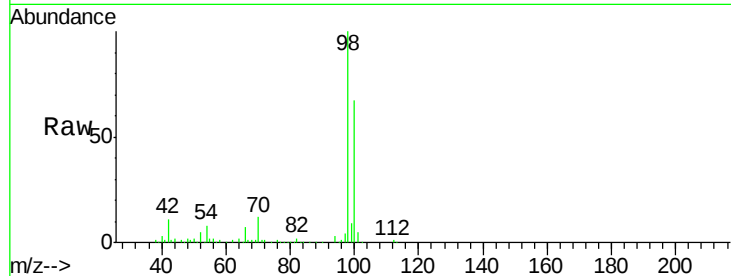
23-C7-20190417

Tot Ion: 98 Resp: 115153

Ion Ratio Lower Upper

98 100

100 66.0 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 3.084 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010516.D

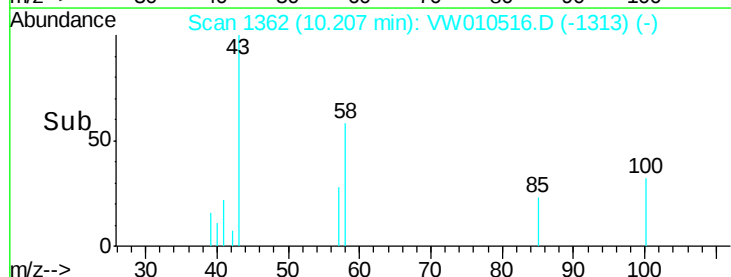
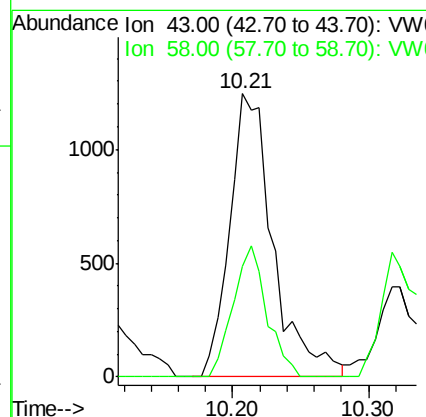
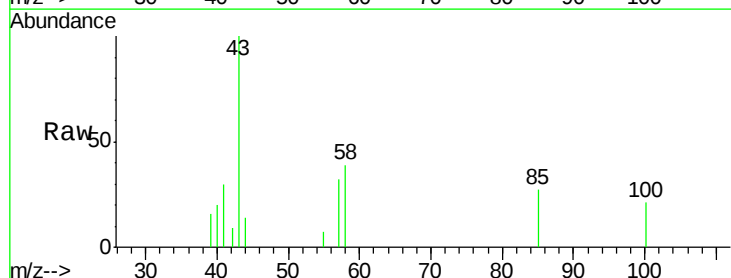
Acq: 22 May 2019 17:51

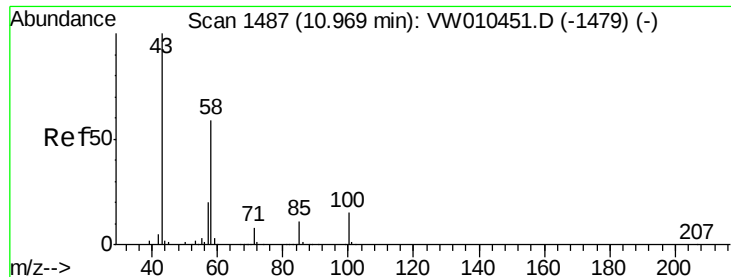
Tgt Ion: 43 Resp: 2768

Ion Ratio Lower Upper

43 100

58 35.8 33.2 49.8

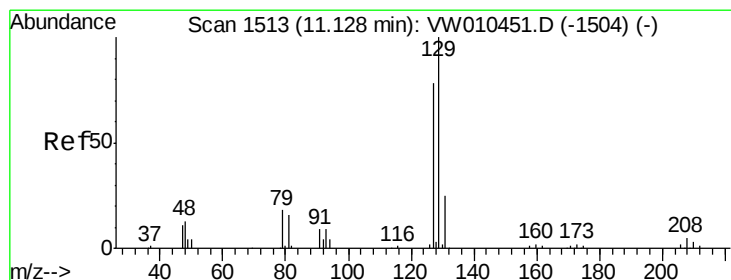
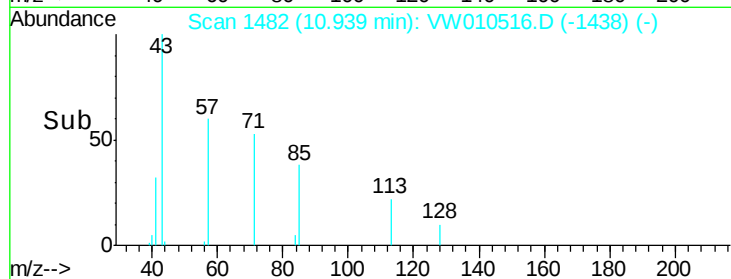
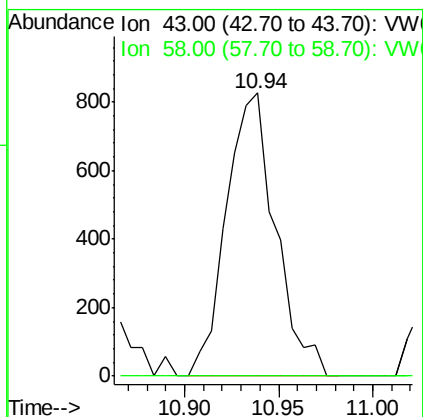
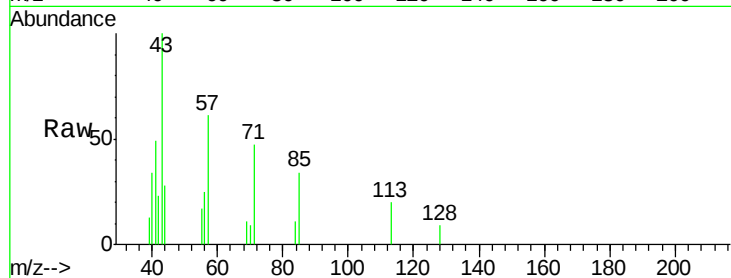




#59
2-Hexanone
Concen: 2.339 ug/l
RT: 10.94 min Scan# 1482
Delta R.T. -0.03 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

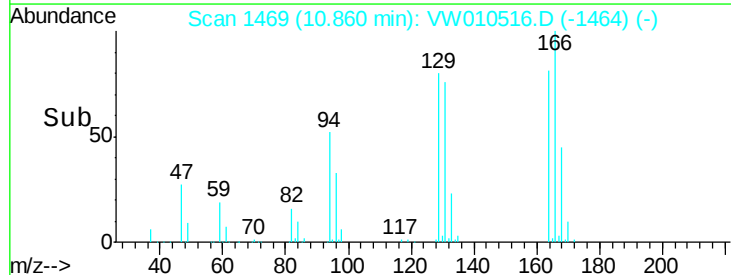
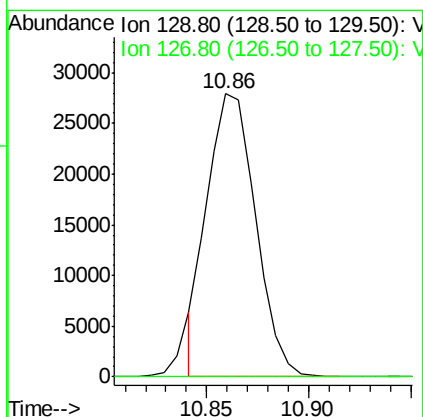
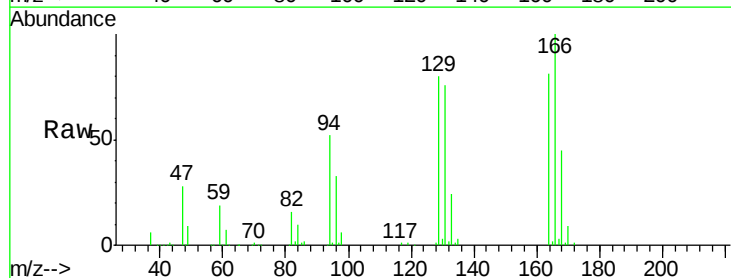
Instrument :
MSVOA_W
ClientSampleId :
23-C7-20190417

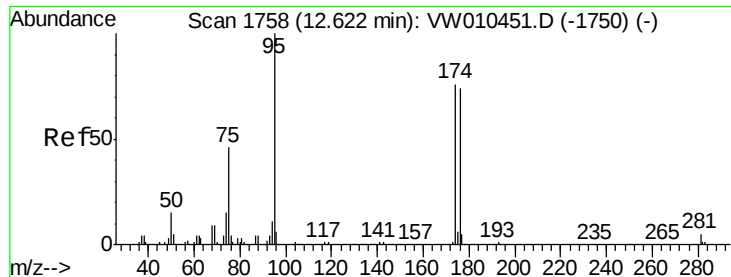
Tot Ion: 43 Resp: 1498
Ion Ratio Lower Upper
43 100
58 0.0 28.9 86.8#



#60
Dibromochloromethane
Concen: 31.452 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.27 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

Tgt Ion: 129 Resp: 46078
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#

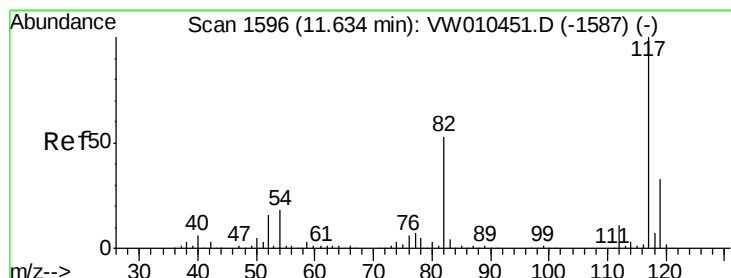
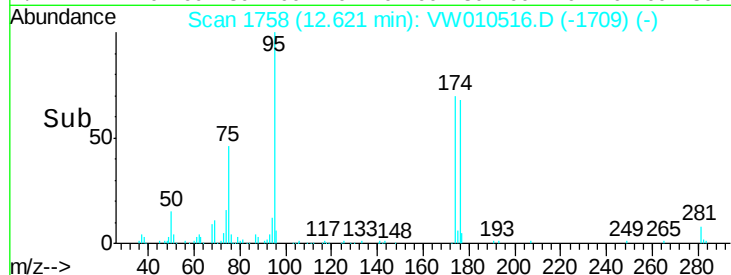
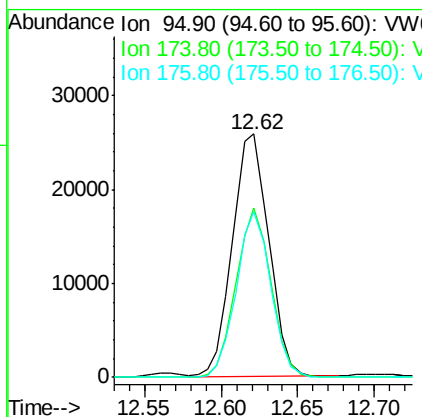
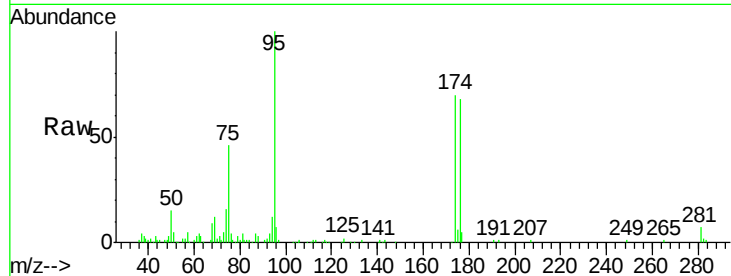




#62
4-Bromofluorobenzene
Concen: 20.643 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

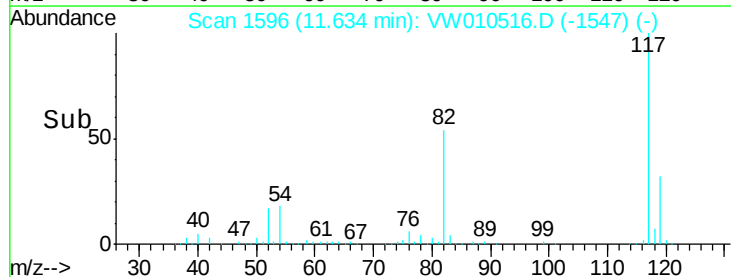
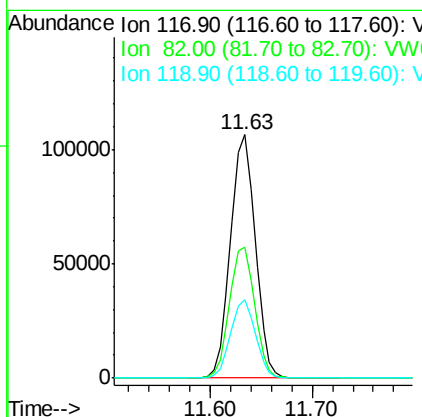
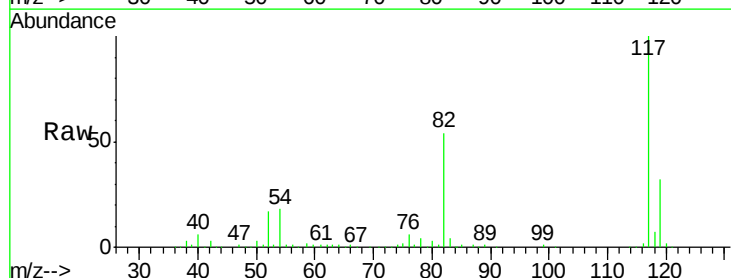
Instrument :
MSVOA_W
ClientSampleId :
23-C7-20190417

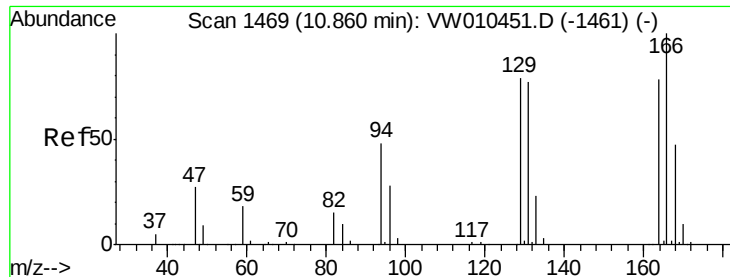
Tot Ion	95	Resp	42664
Ion Ratio	Lower	Upper	
95	100		
174	67.2	0.0	148.6
176	64.7	0.0	144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

Tgt Ion	117	Resp	179633
Ion Ratio	Lower	Upper	
117	100		
82	53.7	42.8	64.2
119	32.2	26.3	39.5





#64

Tetrachloroethene

Concen: 39.131 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW010516.D

Acq: 22 May 2019 17:51

Instrument :

MSVOA_W

ClientSampleId :

23-C7-20190417

Tot Ion:164 Resp: 49000

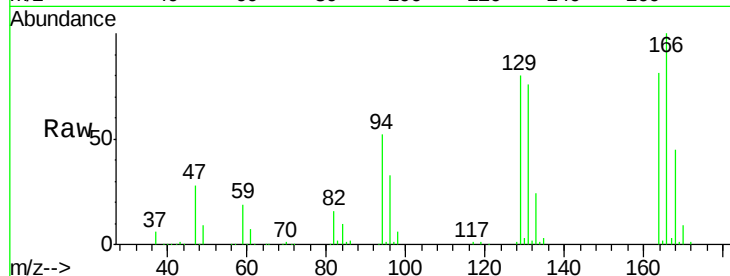
Ion Ratio Lower Upper

164 100

166 123.0 101.9 152.9

129 98.3 80.6 121.0

131 93.9 78.2 117.2

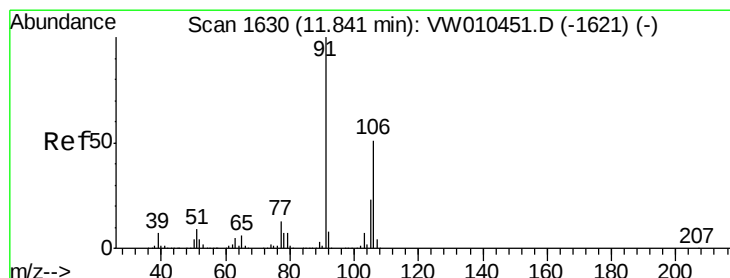
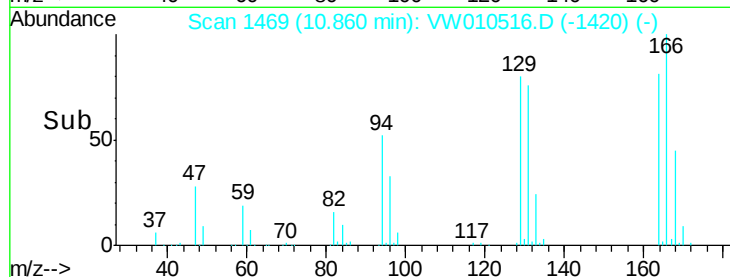
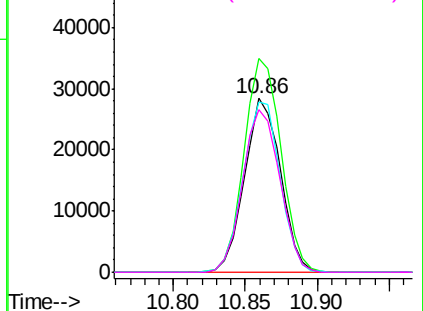


Abundance Ion 163.80 (163.50 to 164.50): V

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



#68

m/p-Xylenes

Concen: 1.742 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW010516.D

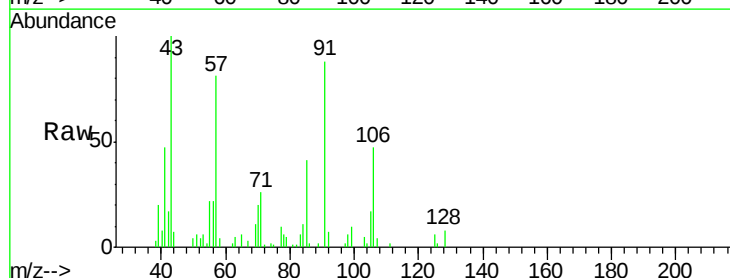
Acq: 22 May 2019 17:51

Tgt Ion:106 Resp: 4619

Ion Ratio Lower Upper

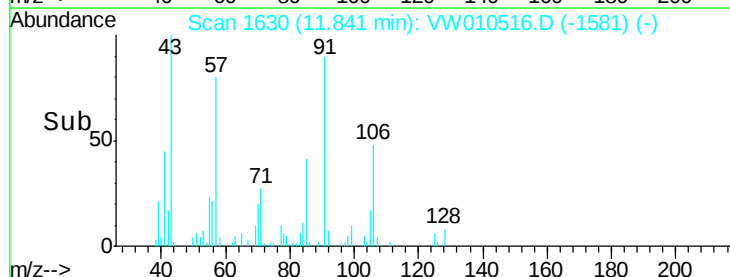
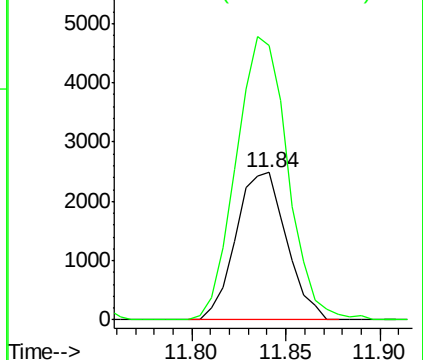
106 100

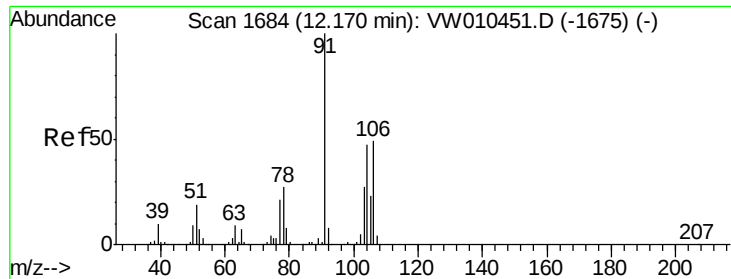
91 196.8 156.0 234.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

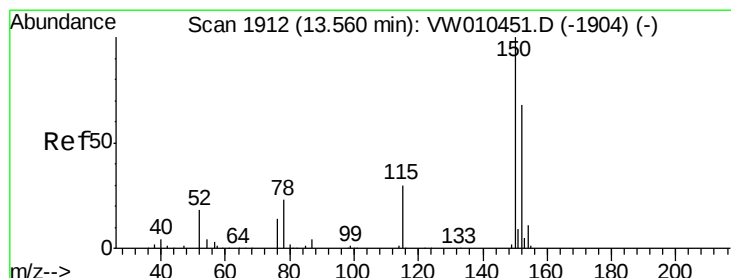
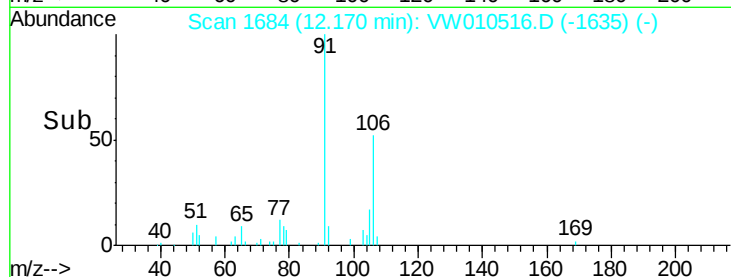
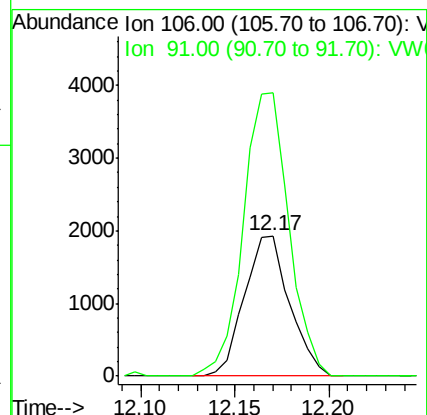
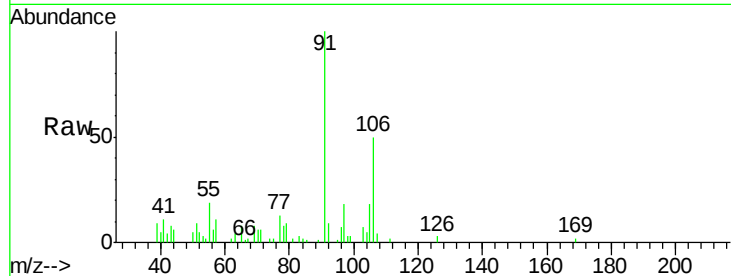




#69
o-Xylene
Concen: 1.278 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

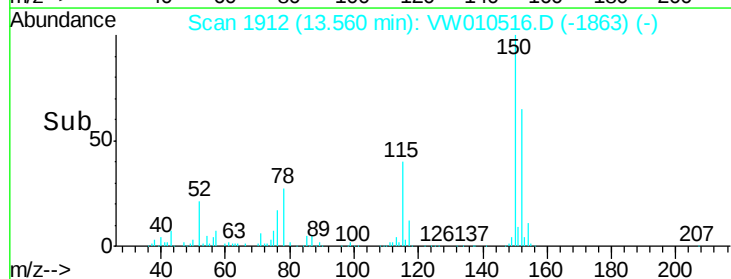
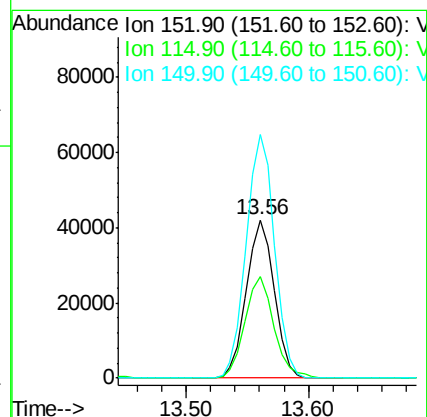
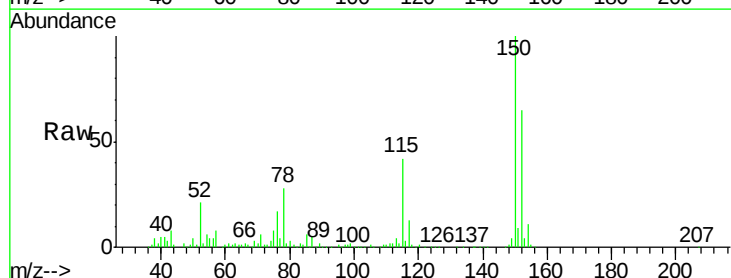
Instrument :
MSVOA_W
ClientSampleId :
23-C7-20190417

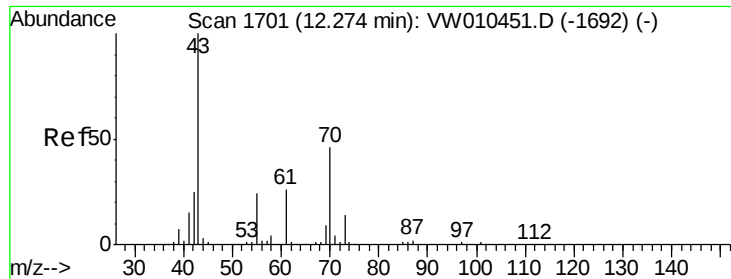
Tot Ion:106 Resp: 3209
Ion Ratio Lower Upper
106 100
91 203.1 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

Tgt Ion:152 Resp: 66760
Ion Ratio Lower Upper
152 100
115 66.8 30.3 91.0
150 155.8 0.0 349.8





#74

N-amvl acetate

Concen: 3.707 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW010516.D

Acq: 22 May 2019 17:51

Instrument :

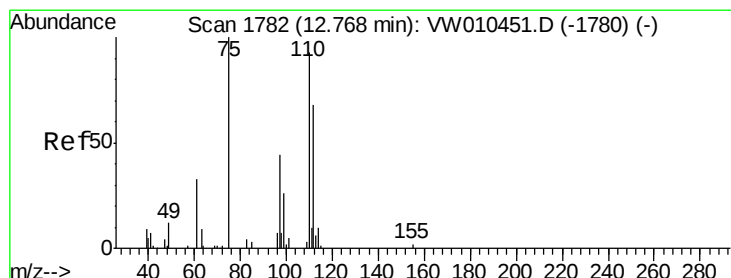
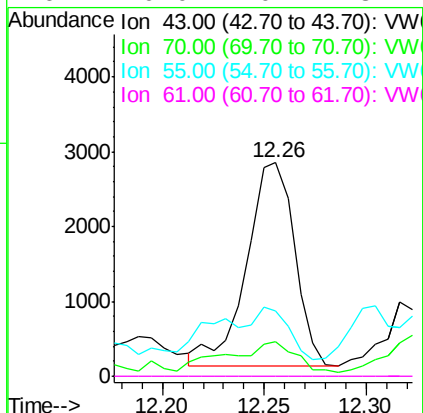
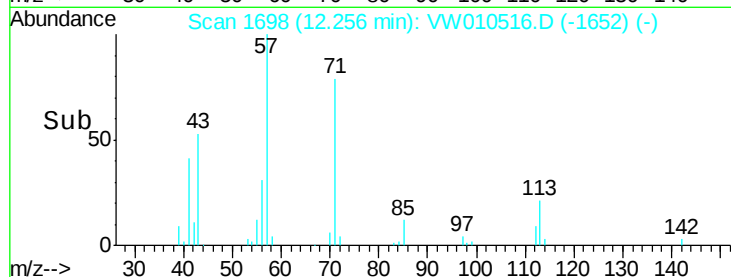
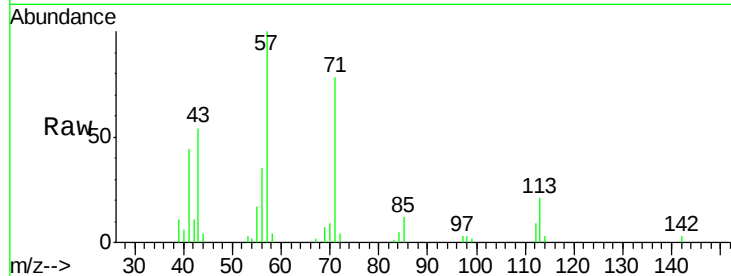
MSVOA_W

ClientSampleId :

23-C7-20190417

Tot Ion: 43 Resp: 4500

Ion	Ratio	Lower	Upper
43	100		
70	20.8	37.1	55.7#
55	19.8	19.6	29.4
61	0.0	20.7	31.1#



#76

1,2,3-Trichloropropane

Concen: 29.810 ug/l

RT: 12.62 min Scan# 1758

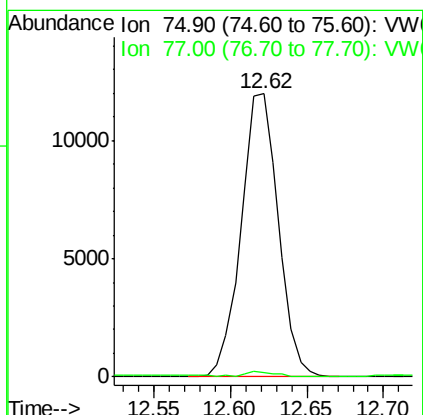
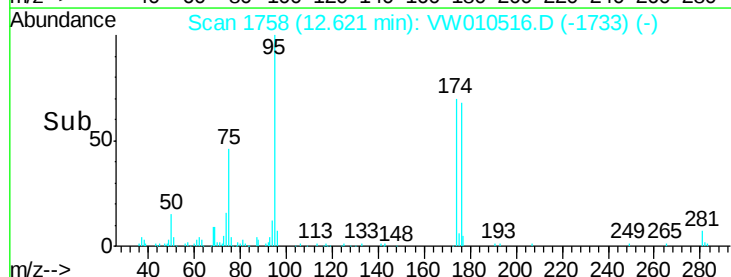
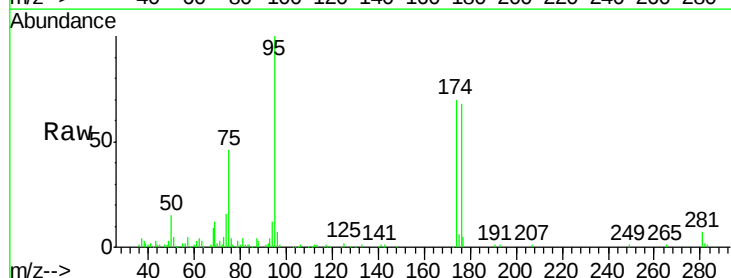
Delta R.T. -0.15 min

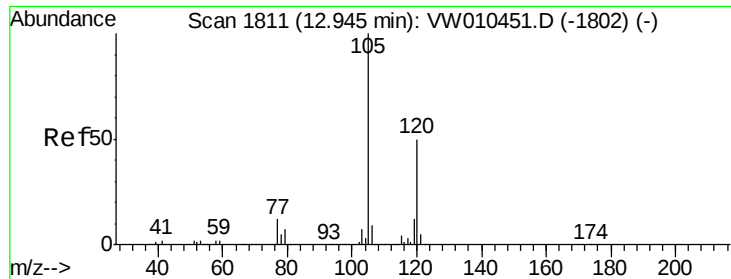
Lab File: VW010516.D

Acq: 22 May 2019 17:51

Tgt Ion: 75 Resp: 20201

Ion	Ratio	Lower	Upper
75	100		
77	1.5	170.0	510.1#





#80

1,3,5-Trimethylbenzene

Concen: 4.457 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW010516.D

Acq: 22 May 2019 17:51

Instrument :

MSVOA_W

ClientSampled :

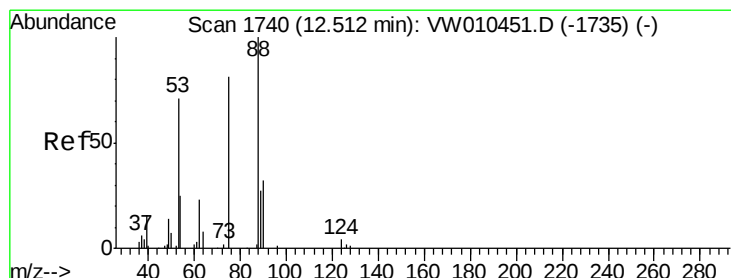
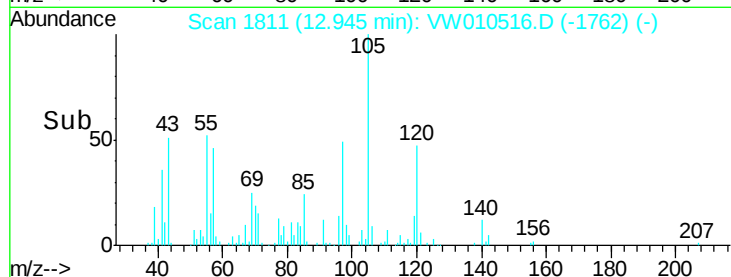
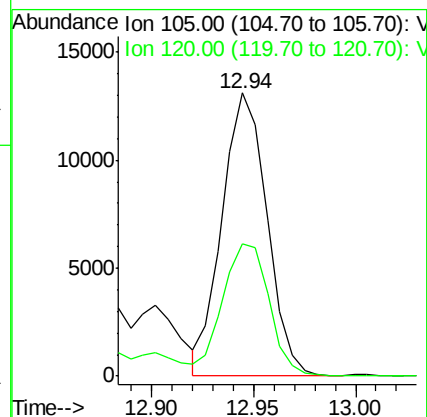
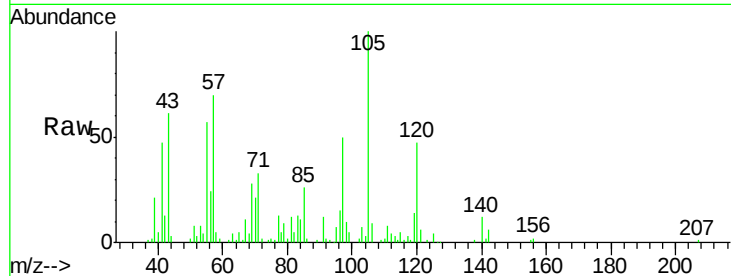
23-C7-20190417

Tot Ion:105 Resp: 19998

Ion Ratio Lower Upper

105 100

120 48.6 25.2 75.6



#81

trans-1,4-Dichloro-2-butene

Concen: 62.214 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010516.D

Acq: 22 May 2019 17:51

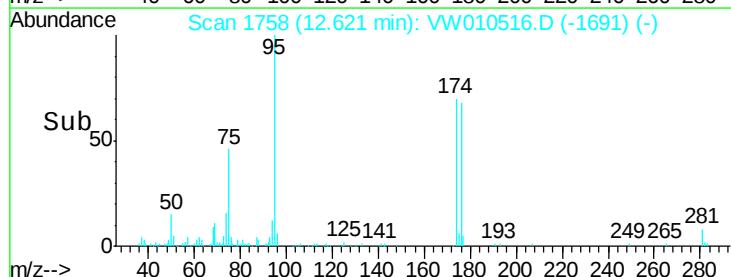
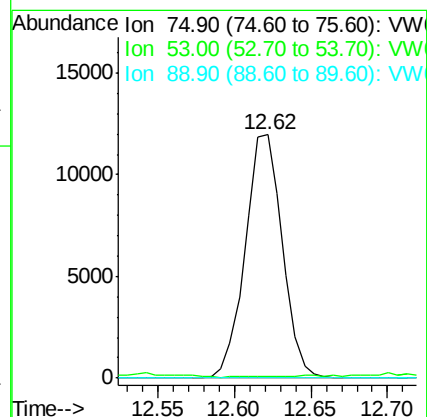
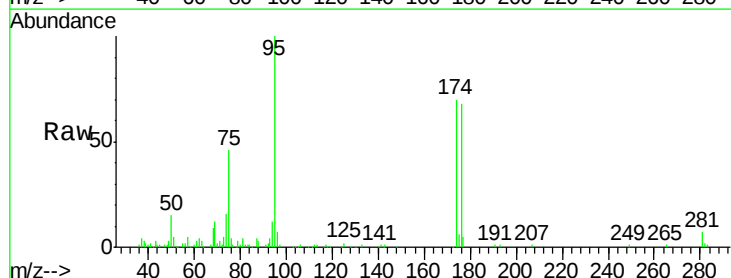
Tgt Ion: 75 Resp: 20201

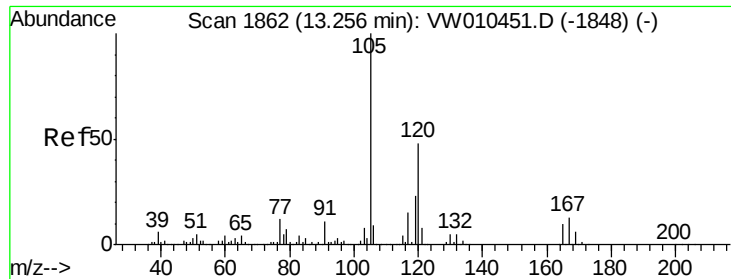
Ion Ratio Lower Upper

75 100

53 1.1 69.8 104.8#

89 0.0 39.5 59.3#

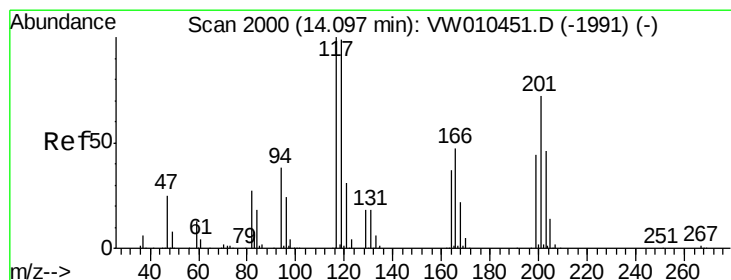
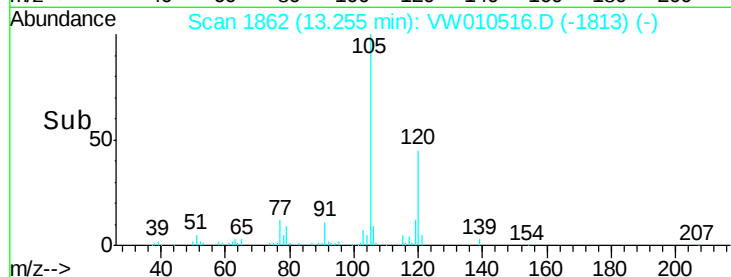
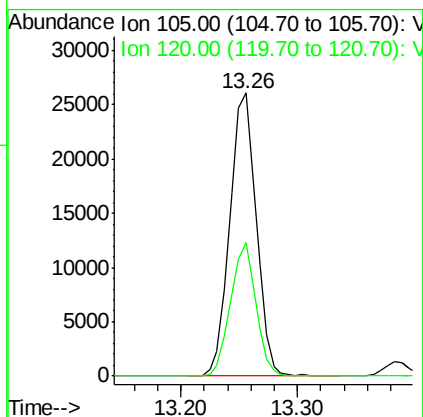
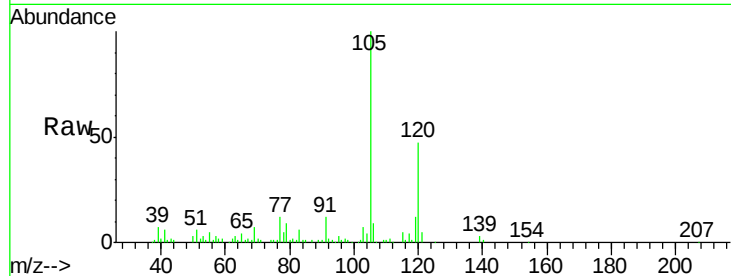




#84
 1,2,4-Trimethylbenzene
 Concen: 9.273 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW010516.D
 Acq: 22 May 2019 17:51

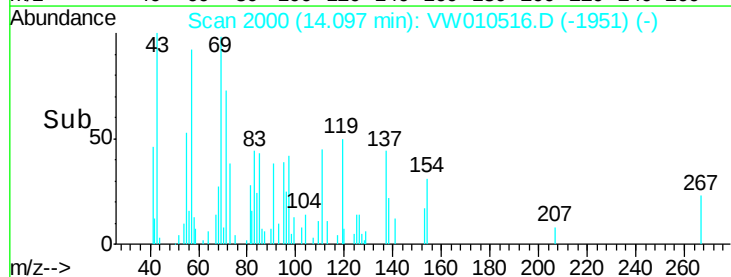
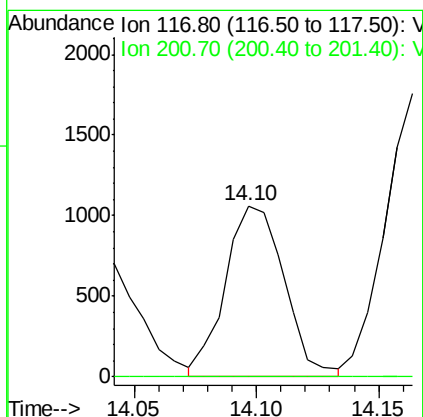
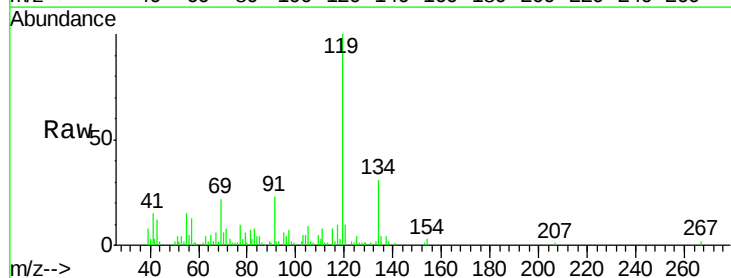
Instrument :
 MSVOA_W
 ClientSampleId :
 23-C7-20190417

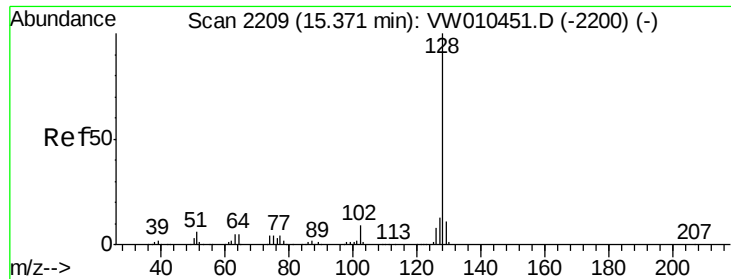
Tot Ion:105 Resp: 41439
 Ion Ratio Lower Upper
 105 100
 120 45.0 23.4 70.2



#90
 Hexachloroethane
 Concen: 1.856 ug/l
 RT: 14.10 min Scan# 2000
 Delta R.T. -0.00 min
 Lab File: VW010516.D
 Acq: 22 May 2019 17:51

Tgt Ion:117 Resp: 1783
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.6 103.8#

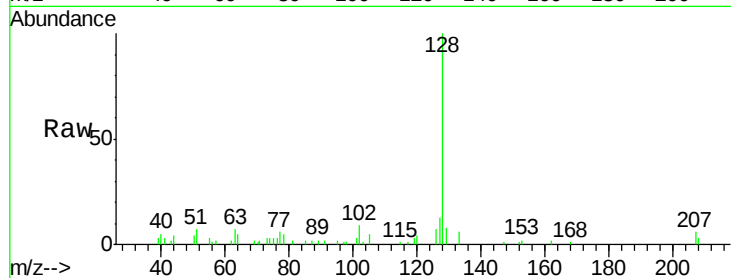




#95
Naphthalene
Concen: 2.706 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW010516.D
Acq: 22 May 2019 17:51

Instrument :
MSVOA_W
ClientSampleId :
23-C7-20190417

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.6	15.8
129	12.3	8.9	13.3



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

