

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090919\
 Data File : VW012821.D
 Acq On : 09 Sep 2019 15:07
 Operator : SY/VA
 Sample : K4760-01
 Misc : 5.51G/5ML/MSVOA W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 09 15:44:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
 Quant Title : SW846 8260
 QLast Update : Sun Sep 08 05:04:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	230431	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	341198	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	241078	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	70170	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	120223	46.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.38%	
35) Dibromofluoromethane	7.88	113	100384	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
50) Toluene-d8	10.32	98	393693	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
62) 4-Bromofluorobenzene	12.62	95	95842	33.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.44%	

Target Compounds

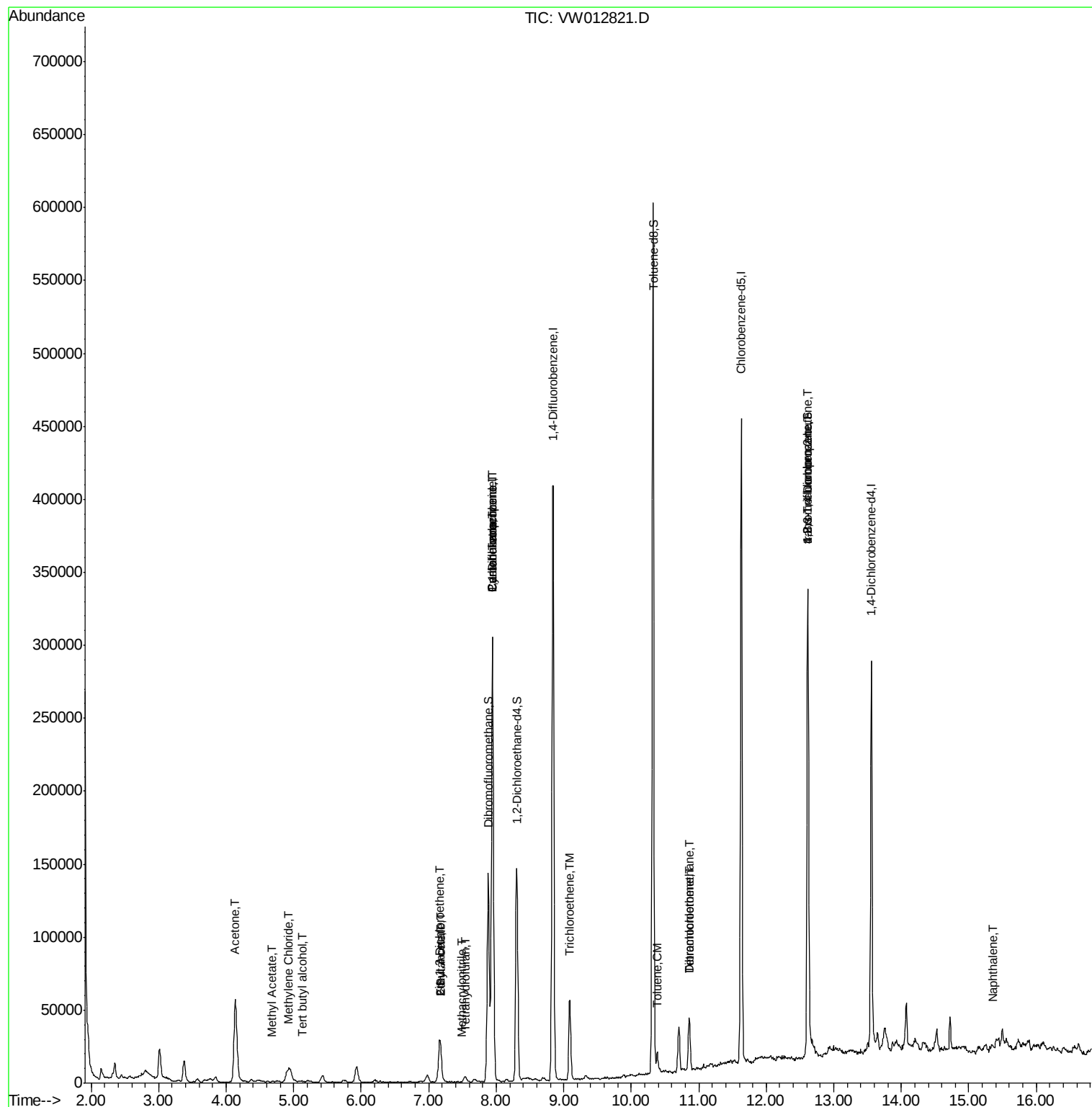
						Qvalue
11) Tert butyl alcohol	5.13	59	902	4.579	ug/l #	72
16) Acetone	4.14	43	118644	169.031	ug/l	97
18) Methyl Acetate	4.68	43	2565	1.558	ug/l #	61
20) Methylene Chloride	4.91	84	4339	1.976	ug/l #	86
25) 2-Butanone	7.18	43	10871	29.371	ug/l	98
27) cis-1,2-Dichloroethene	7.16	96	12874	5.718	ug/l	89
29) Tetrahydrofuran	7.54	42	3676	6.485	ug/l	94
31) Cyclohexane	7.95	56	5538	1.463	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18227	6.012	ug/l #	54
37) Ethyl Acetate	7.18	43	10871	5.625	ug/l #	1
38) Carbon Tetrachloride	7.95	117	22408	7.498	ug/l #	16
41) Methacrylonitrile	7.49	41	177	3.963	ug/l #	27
44) Trichloroethene	9.09	130	19324	8.913	ug/l	93
52) Toluene	10.39	92	5577	1.062	ug/l	88
60) Dibromochloromethane	10.86	129	7228	3.716	ug/l #	11
64) Tetrachloroethene	10.86	164	8587	5.870	ug/l	92
76) 1,2,3-Trichloropropane	12.62	75	48245	67.239	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	48245	142.214	ug/l #	7
95) Naphthalene	15.36	128	1078	4.773	ug/l #	89

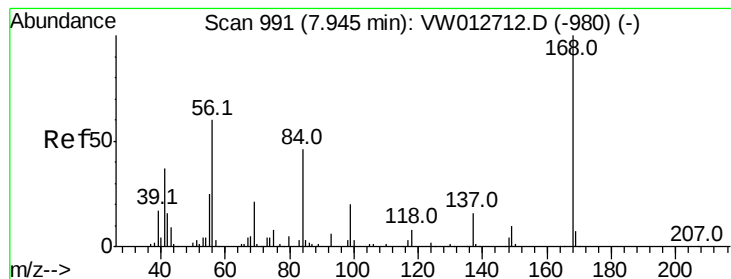
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

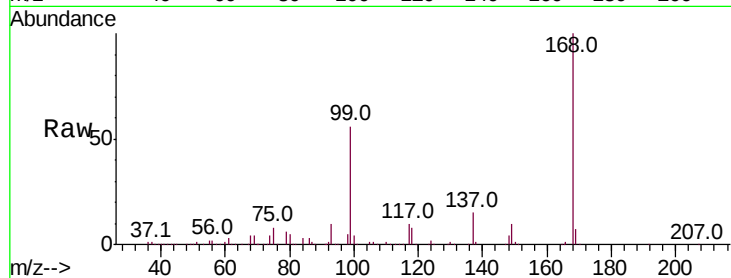
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 230431

Ion Ratio Lower Upper

168 100

99 55.9 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

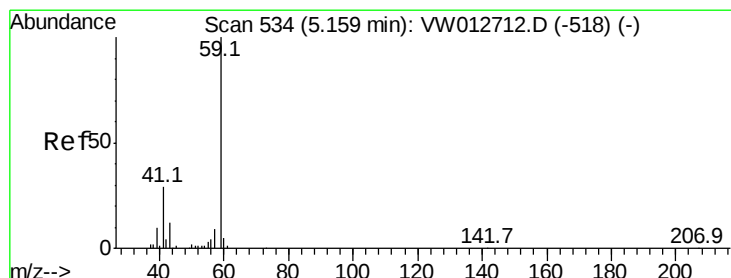
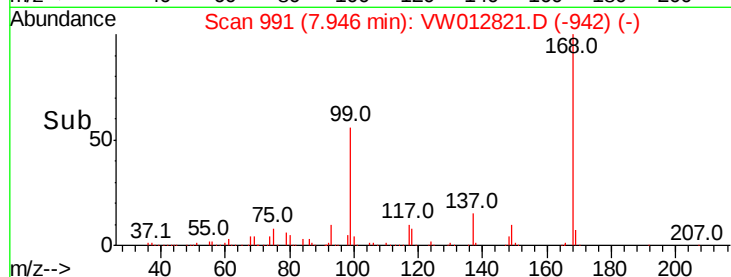
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.579 ug/l

RT: 5.13 min Scan# 529

Delta R.T. -0.03 min

Lab File: VW012821.D

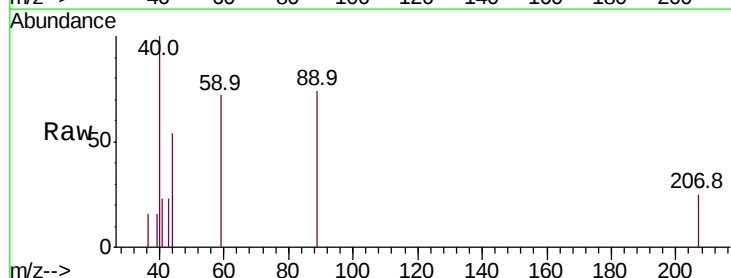
Acq: 09 Sep 2019 15:07

Tgt Ion: 59 Resp: 902

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

600

500

400

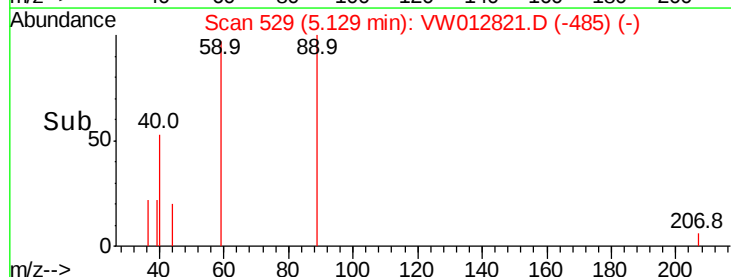
300

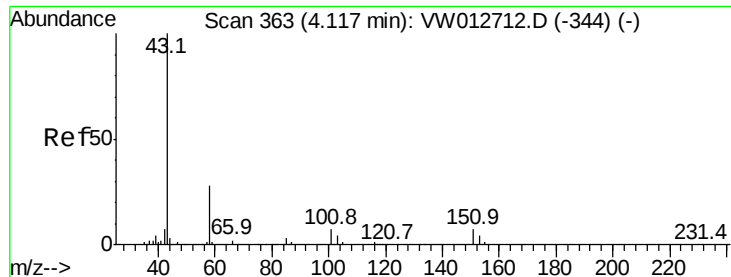
200

100

0

Time-->





#16

Acetone

Concen: 169.031 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :

MSVOA_W

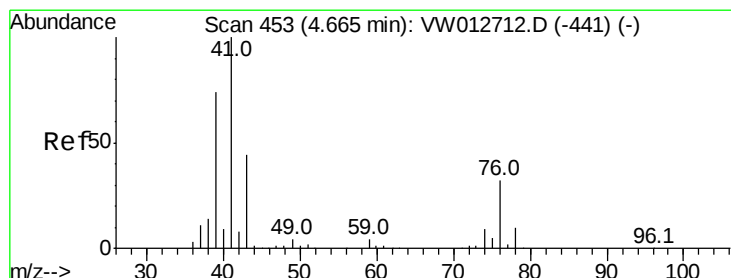
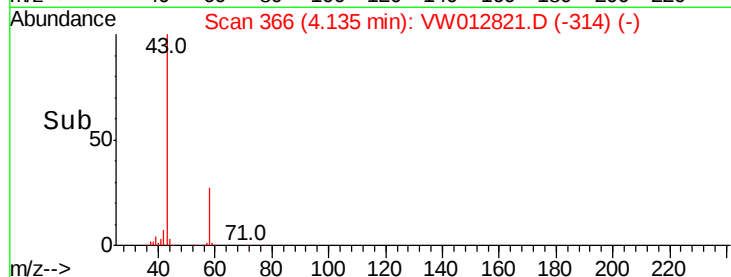
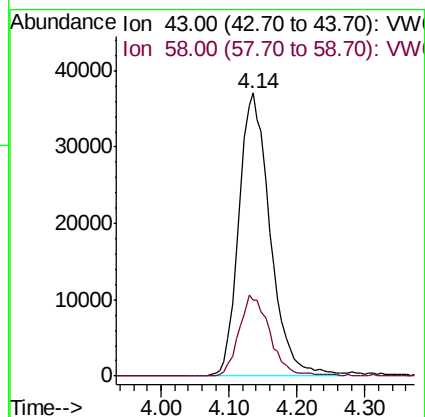
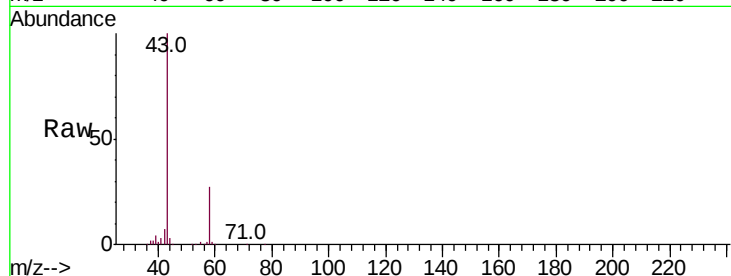
ClientSampleId :

Tot Ion: 43 Resp: 118644

Ion Ratio Lower Upper

43 100

58 26.6 22.6 33.8



#18

Methyl Acetate

Concen: 1.558 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW012821.D

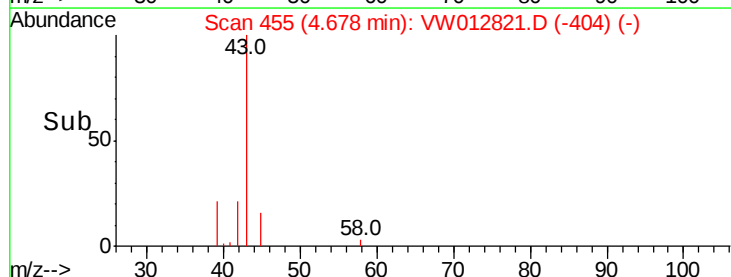
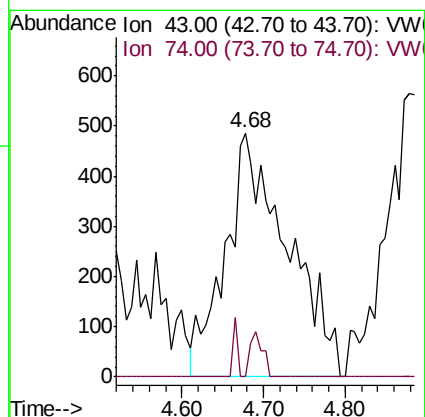
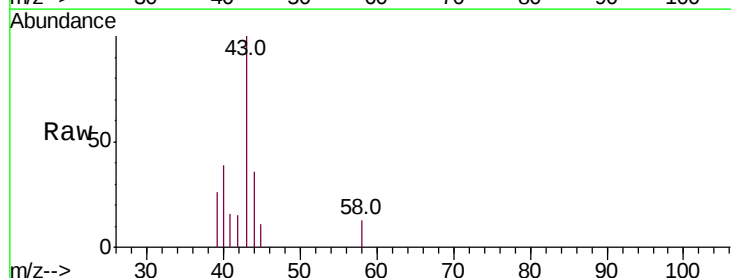
Acq: 09 Sep 2019 15:07

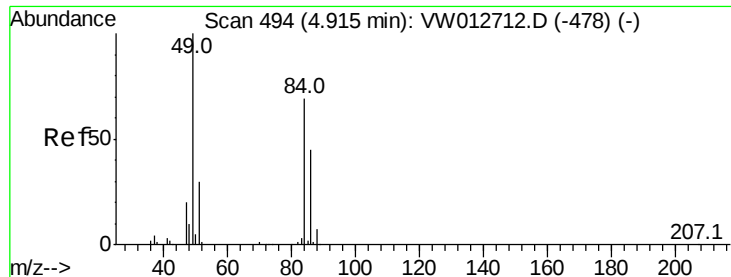
Tgt Ion: 43 Resp: 2565

Ion Ratio Lower Upper

43 100

74 1.7 15.8 23.6#

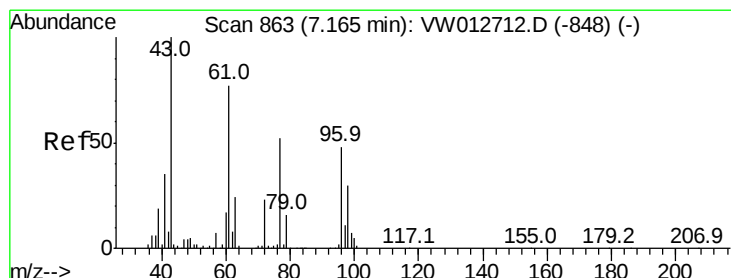
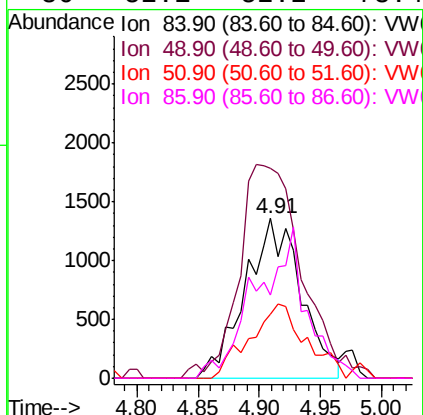
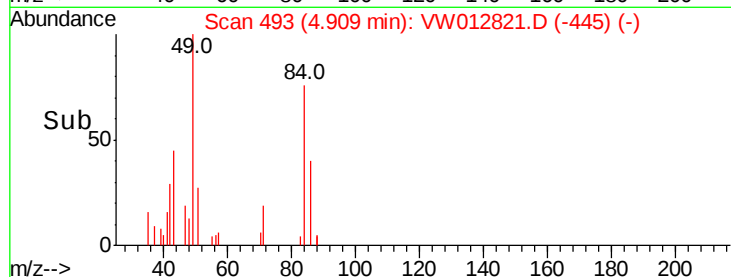
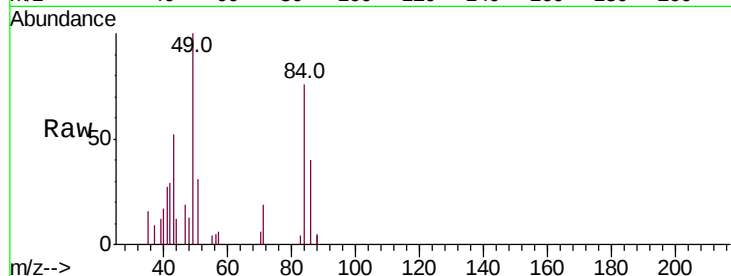




#20
Methvlene Chloride
Concen: 1.976 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012821.D
Acq: 09 Sep 2019 15:07

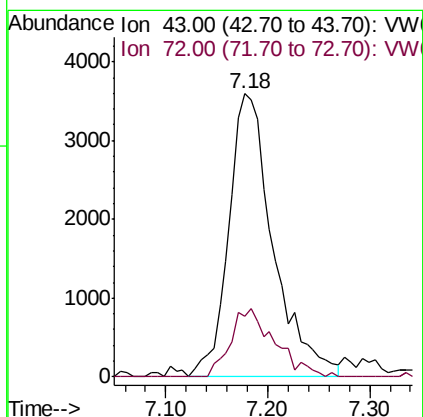
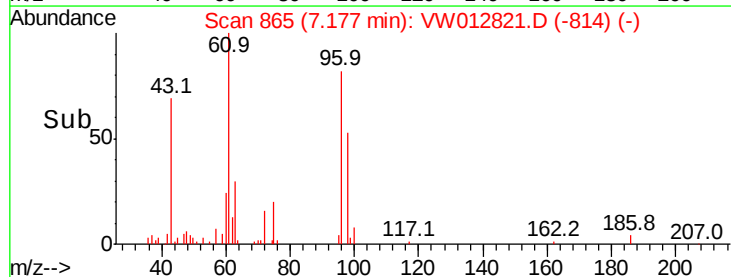
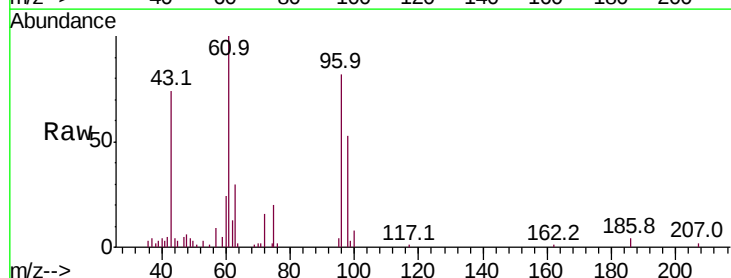
Instrument :
MSVOA_W
ClientSampleId :

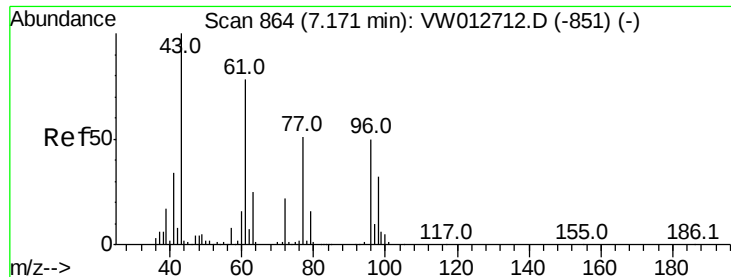
Tot Ion: 84 Resp: 4339
Ion Ratio Lower Upper
84 100
49 125.6 115.4 173.0
51 40.3 34.9 52.3
86 52.1 52.2 78.4#



#25
2-Butanone
Concen: 29.371 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW012821.D
Acq: 09 Sep 2019 15:07

Tgt Ion: 43 Resp: 10871
Ion Ratio Lower Upper
43 100
72 21.5 18.0 27.0

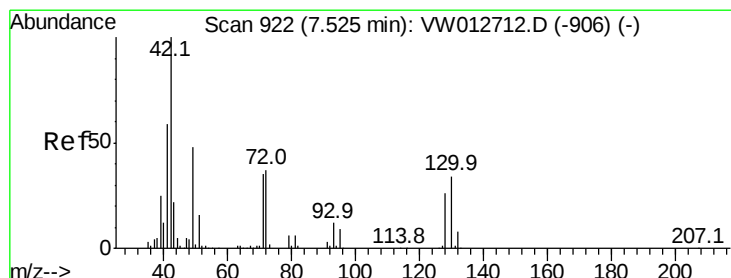
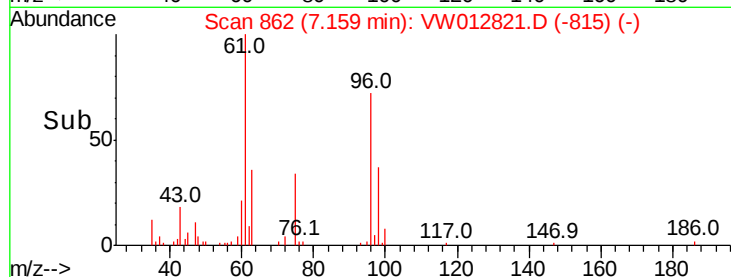
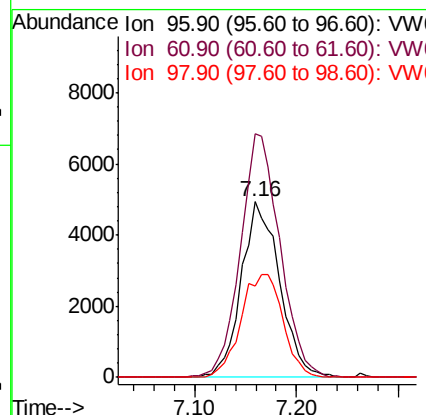
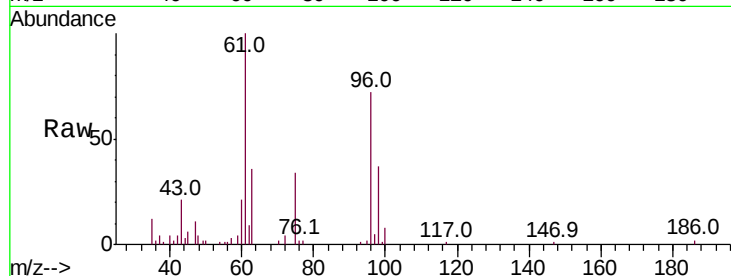




#27
 cis-1,2-Dichloroethene
 Concen: 5.718 ug/l
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW012821.D
 Acq: 09 Sep 2019 15:07

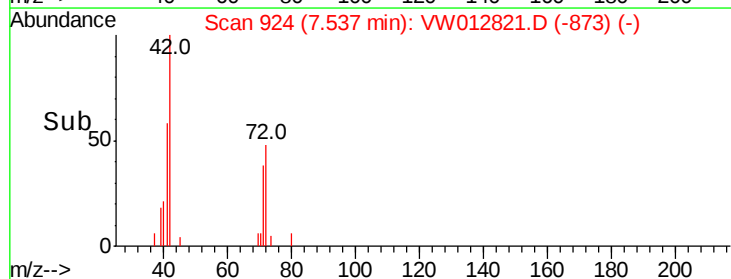
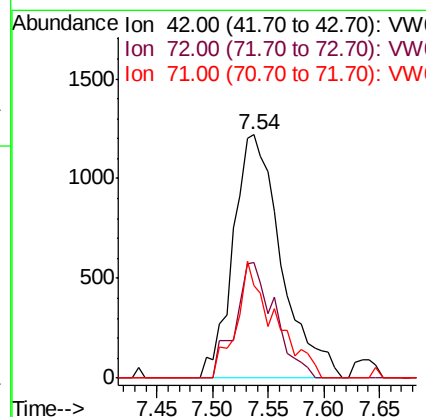
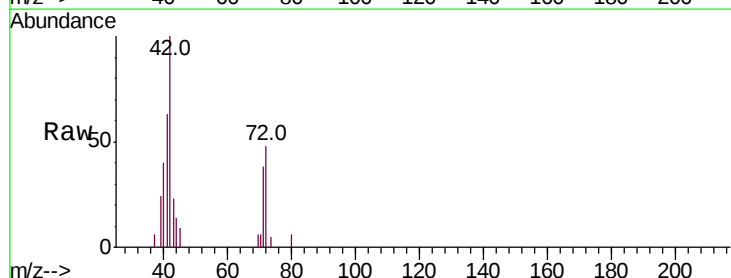
Instrument :
 MSVOA_W
 ClientSampled :

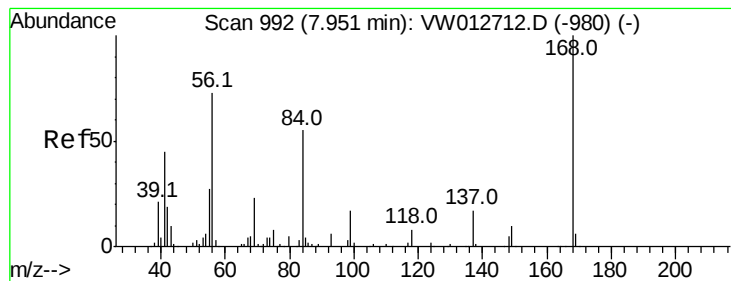
Tot Ion: 96 Resp: 12874
 Ion Ratio Lower Upper
 96 100
 61 143.0 0.0 325.8
 98 64.1 0.0 127.0



#29
 Tetrahydrofuran
 Concen: 6.485 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW012821.D
 Acq: 09 Sep 2019 15:07

Tgt Ion: 42 Resp: 3676
 Ion Ratio Lower Upper
 42 100
 72 38.9 28.4 42.6
 71 38.0 27.1 40.7





#31

Cyclohexane

Concen: 1.463 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :
MSVOA_W
ClientSampled :

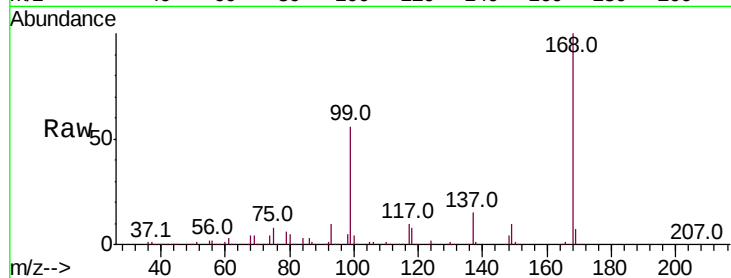
Tot Ion: 56 Resp: 5538

Ion Ratio Lower Upper

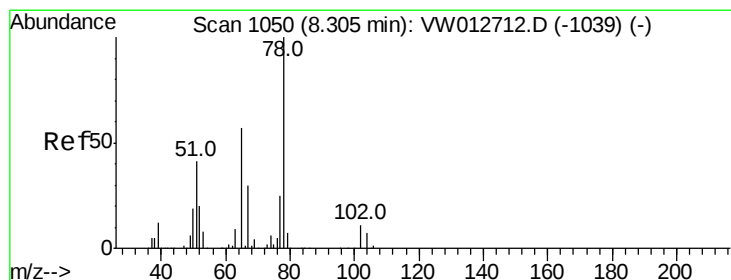
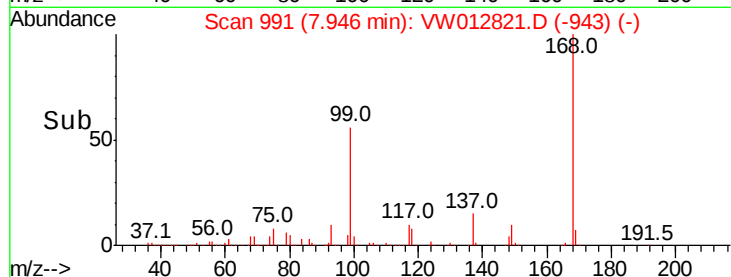
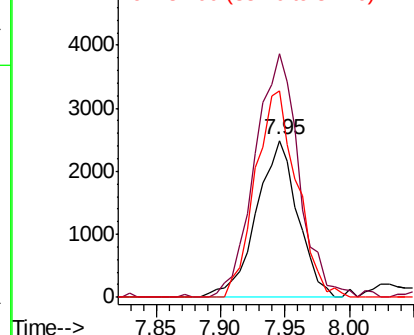
56 100

69 155.3 25.7 38.5#

84 132.1 60.4 90.6#



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: 46.694 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012821.D

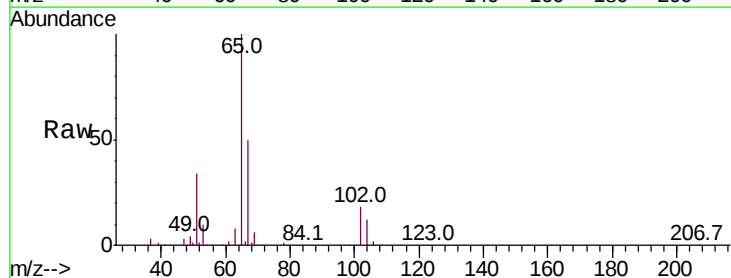
Acq: 09 Sep 2019 15:07

Tgt Ion: 65 Resp: 120223

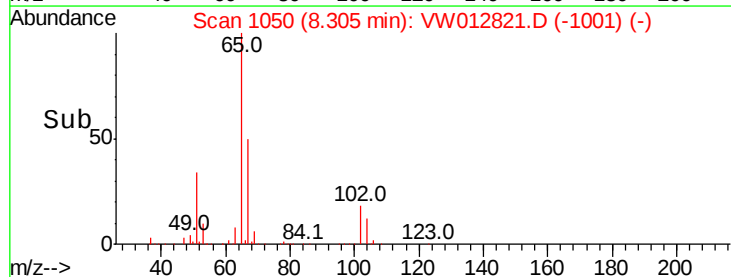
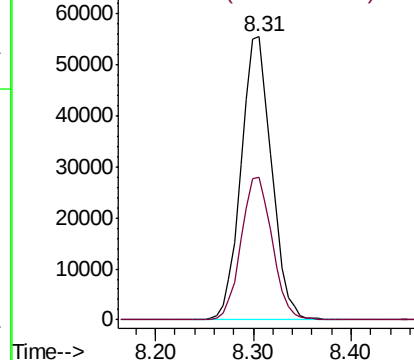
Ion Ratio Lower Upper

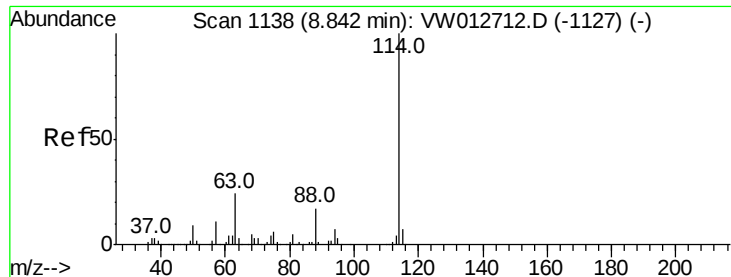
65 100

67 51.5 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

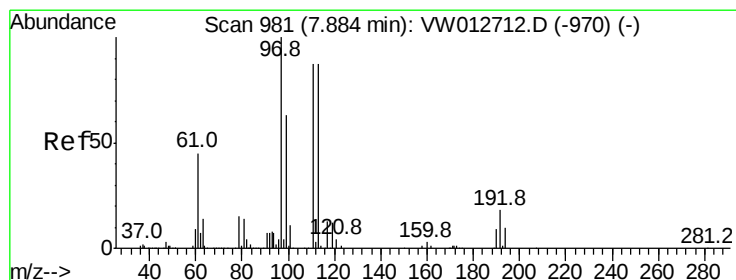
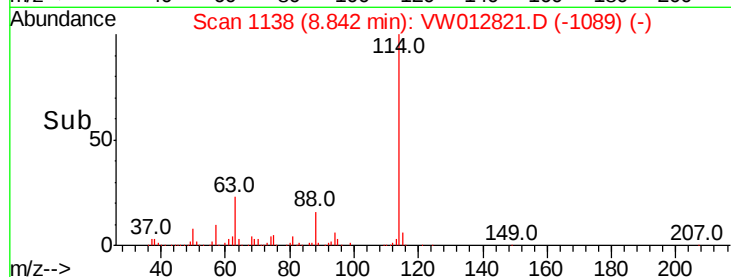
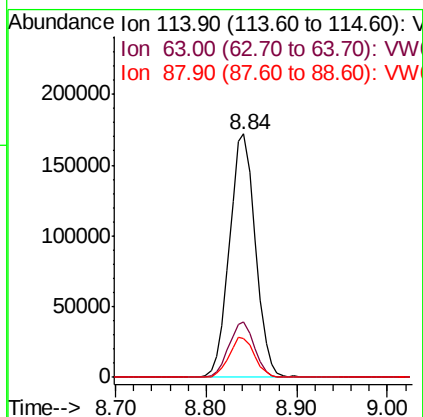
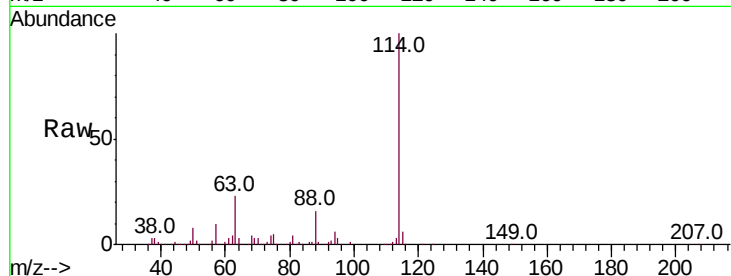




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012821.D
 Acq: 09 Sep 2019 15:07

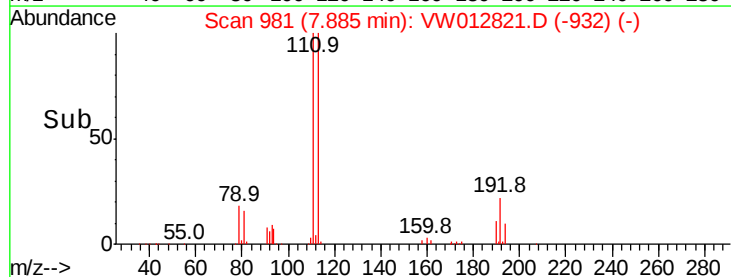
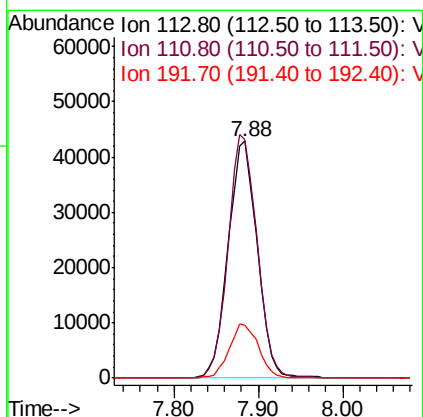
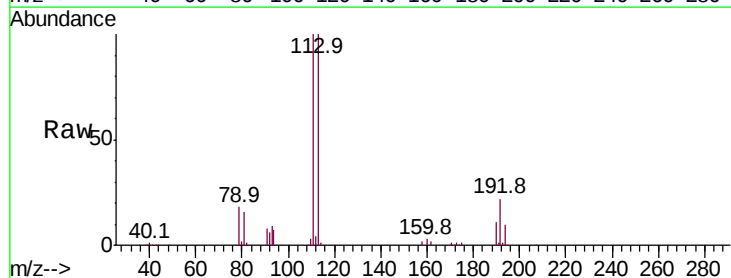
Instrument :
 MSVOA_W
 ClientSampleId :

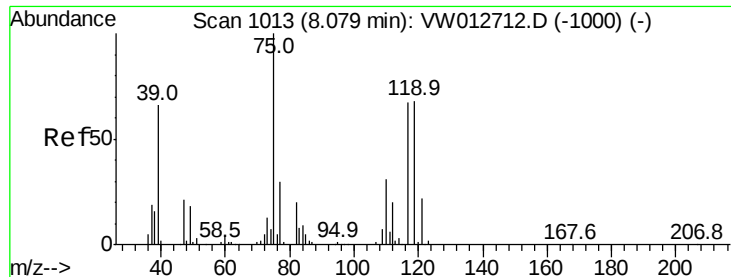
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	47.2
88	16.2	0.0	34.0



#35
 Dibromofluoromethane
 Concen: 49.486 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012821.D
 Acq: 09 Sep 2019 15:07

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	80.2	120.4
192	22.9	17.3	25.9





#36

1,1-Dichloropropene

Concen: 6.012 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :
MSVOA_W
ClientSampled :

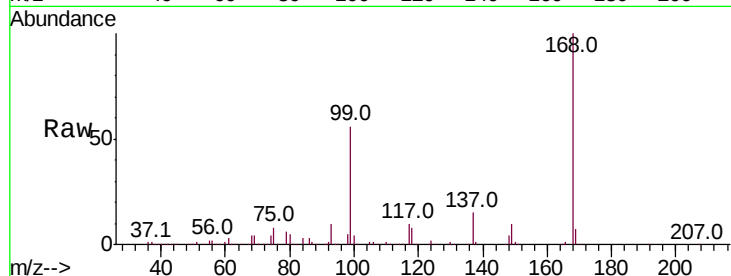
Tot Ion: 75 Resp: 18227

Ion Ratio Lower Upper

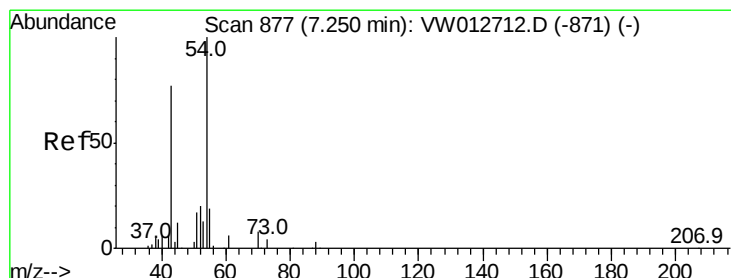
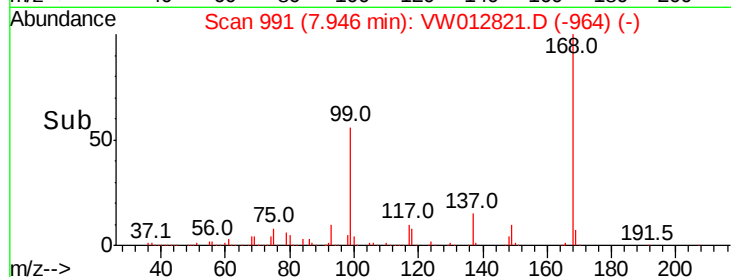
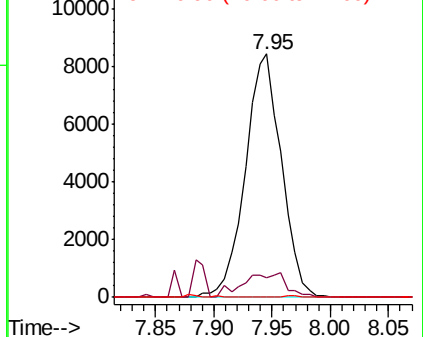
75 100

110 11.9 15.9 47.7#

77 0.2 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): VW
Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 5.625 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.07 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

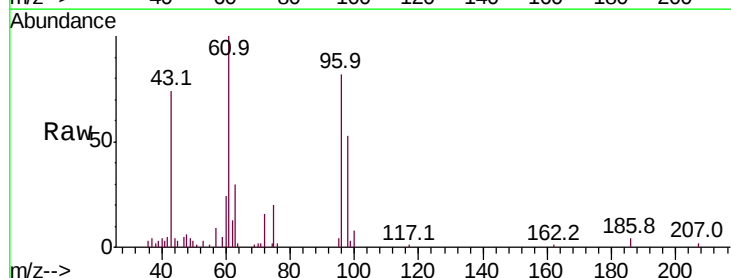
Tgt Ion: 43 Resp: 10871

Ion Ratio Lower Upper

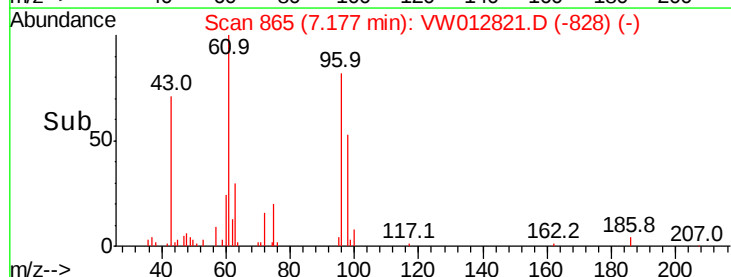
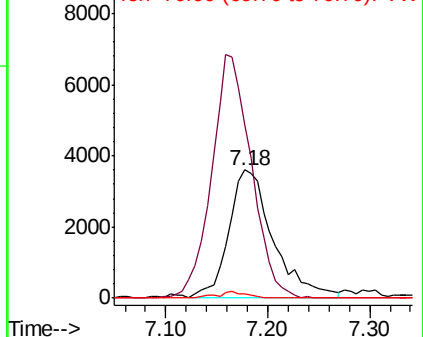
43 100

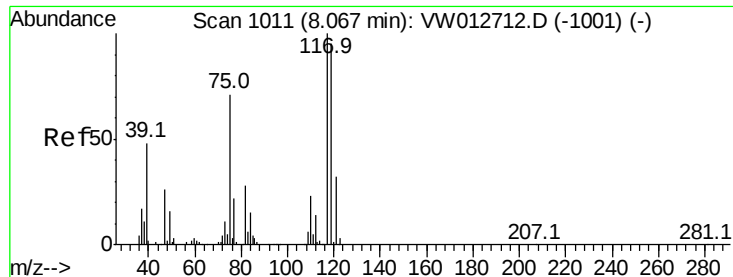
61 169.3 9.5 14.3#

70 3.4 7.0 10.6#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 7.498 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :

MSVOA_W

ClientSampleId :

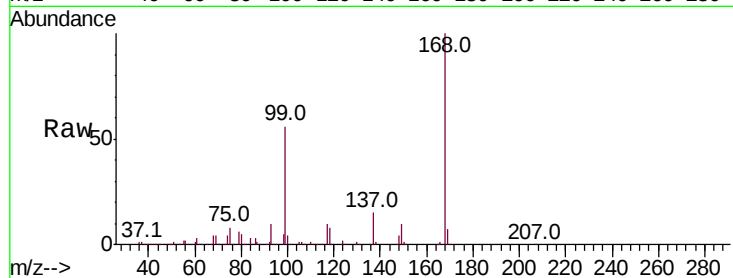
Tot Ion:117 Resp: 22408

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.2#

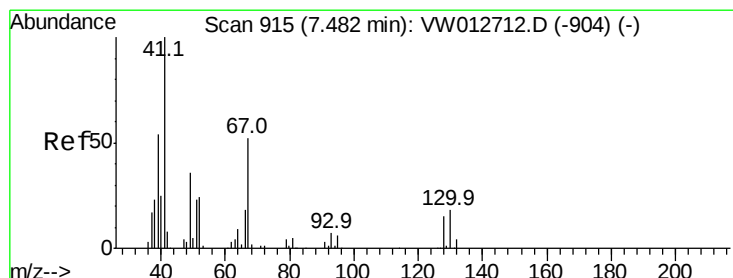
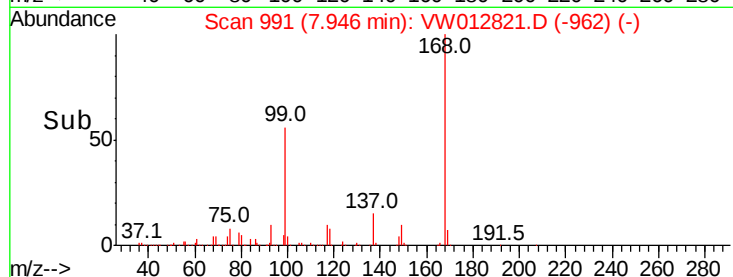
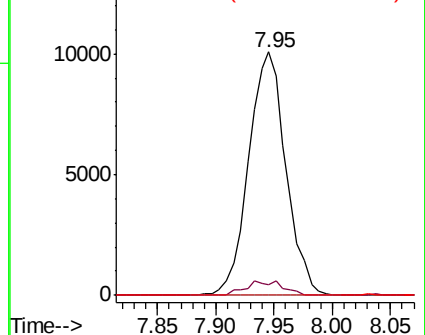
121 0.0 25.4 38.2#



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



#41

Methacrylonitrile

Concen: 3.963 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Tgt Ion: 41 Resp: 177

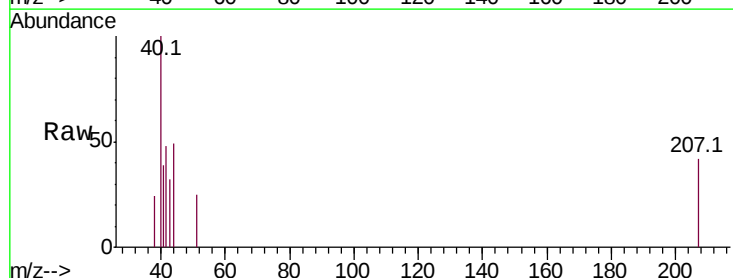
Ion Ratio Lower Upper

41 100

39 0.0 47.5 71.3#

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

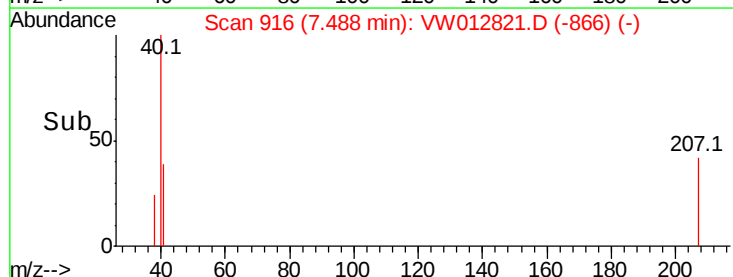
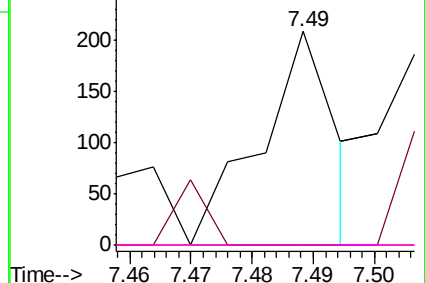


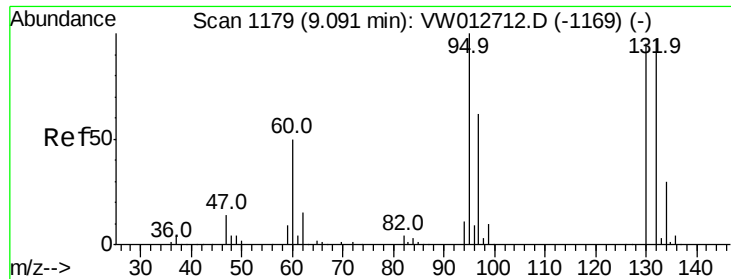
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW





#44

Trichloroethene

Concen: 8.913 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :

MSVOA_W

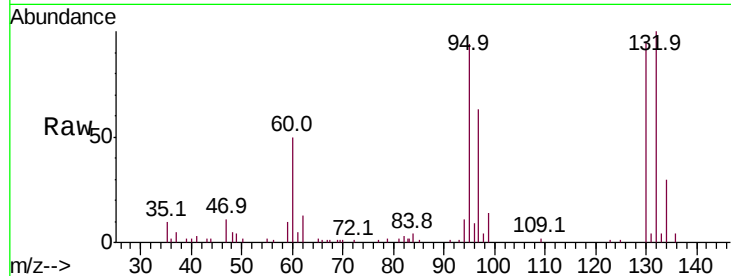
ClientSampled :

Tot Ion:130 Resp: 19324

Ion Ratio Lower Upper

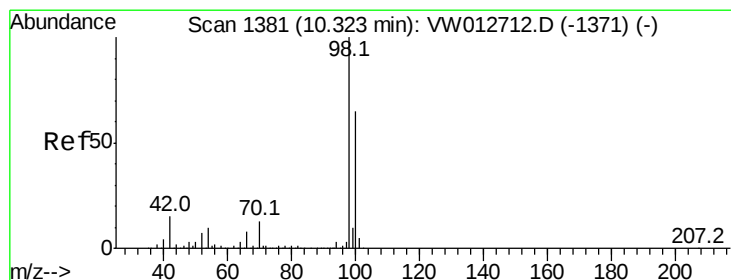
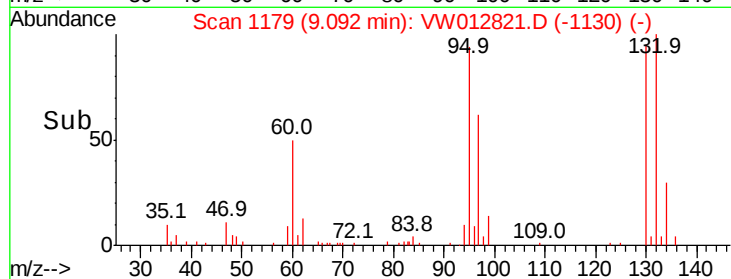
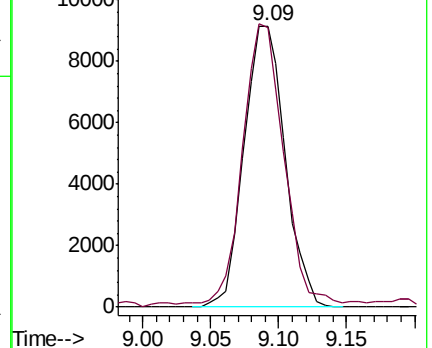
130 100

95 97.7 0.0 210.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 49.538 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012821.D

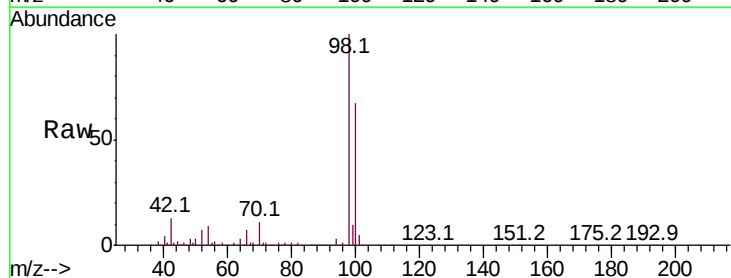
Acq: 09 Sep 2019 15:07

Tgt Ion: 98 Resp: 393693

Ion Ratio Lower Upper

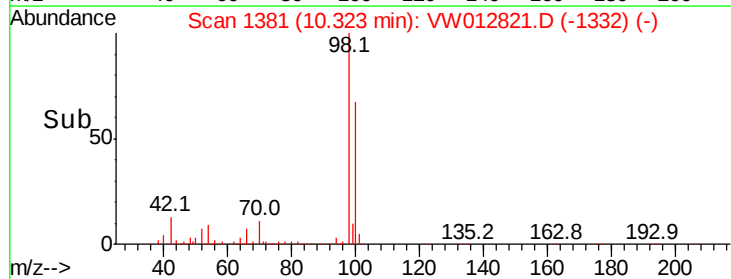
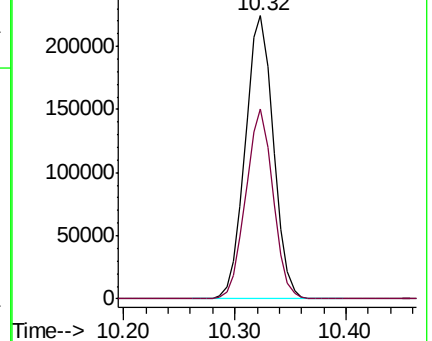
98 100

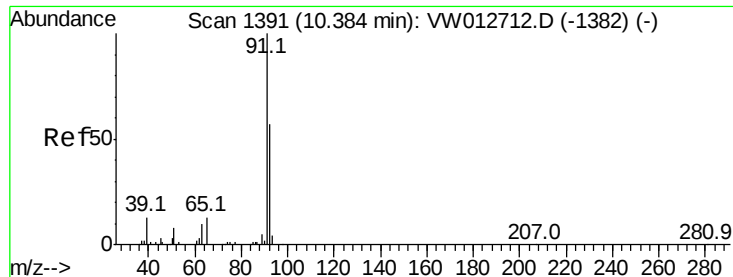
100 65.1 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.062 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :

MSVOA_W

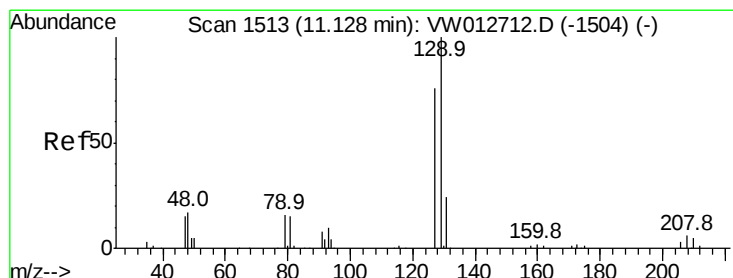
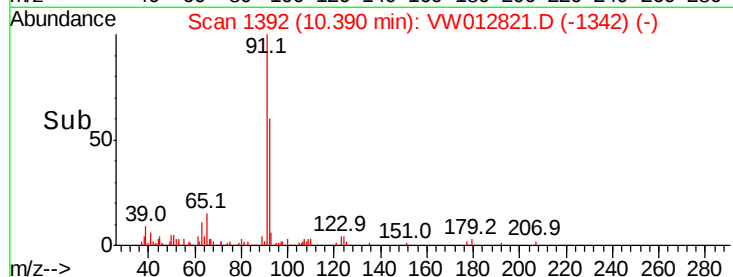
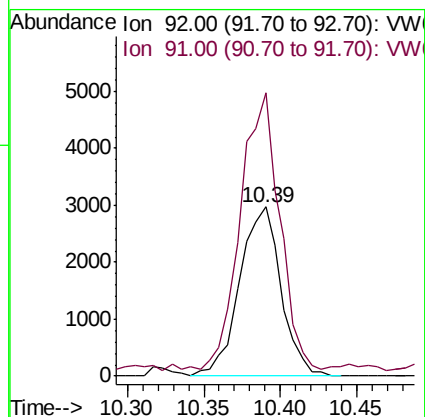
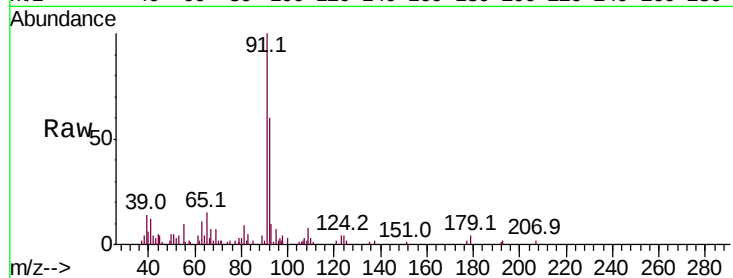
ClientSampled :

Tot Ion: 92 Resp: 5577

Ion Ratio Lower Upper

92 100

91 154.5 137.0 205.4



#60

Dibromochloromethane

Concen: 3.716 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW012821.D

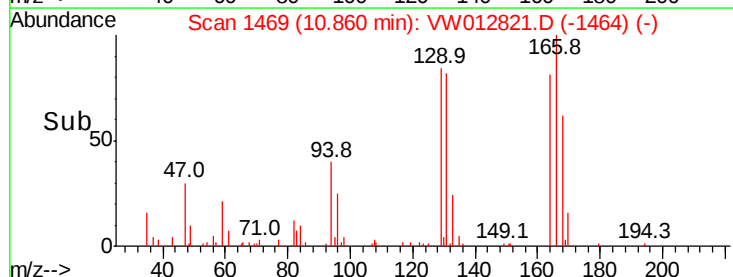
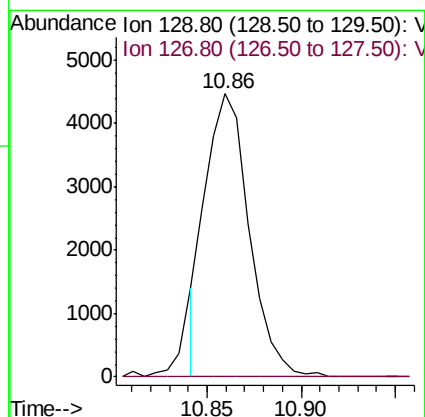
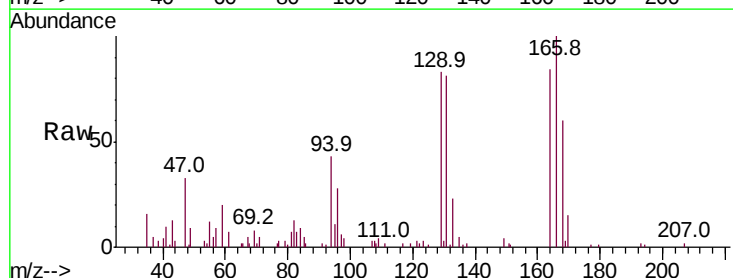
Acq: 09 Sep 2019 15:07

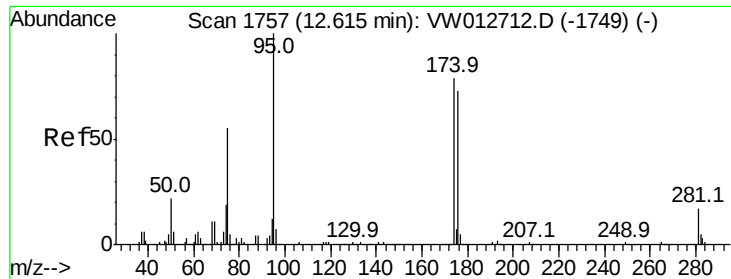
Tgt Ion: 129 Resp: 7228

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#

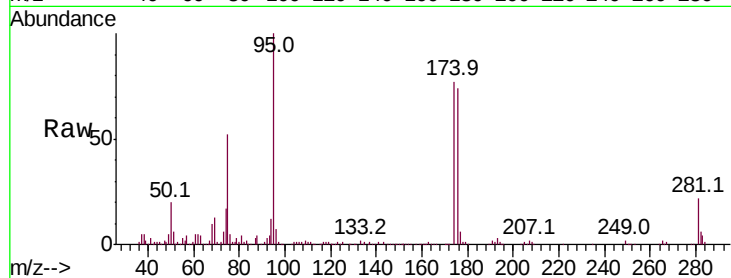




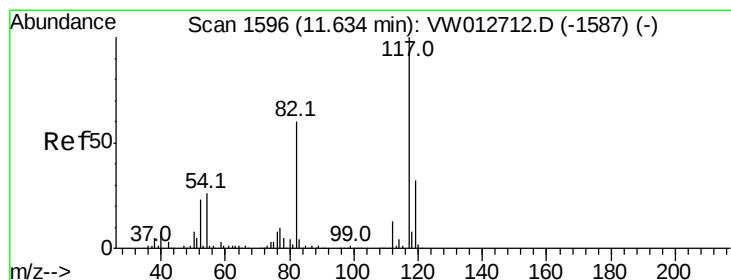
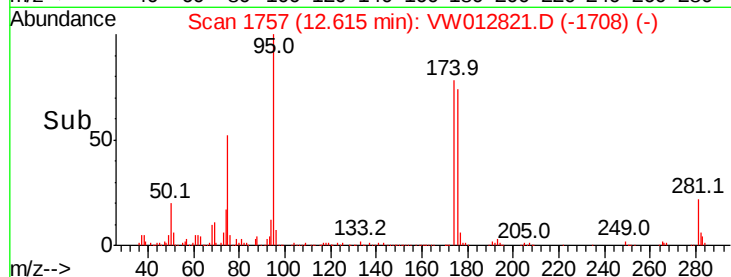
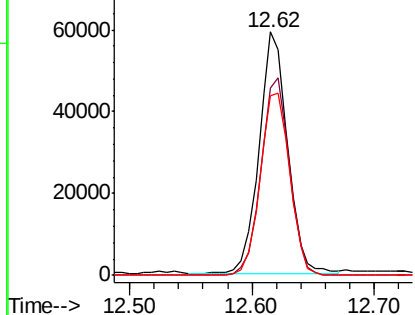
#62
4-Bromofluorobenzene
Concen: 33.220 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW012821.D
Acq: 09 Sep 2019 15:07

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	95	Resp	95842
Ion Ratio	Lower	Upper	
95	100		
174	81.6	0.0	161.0
176	78.3	0.0	156.4

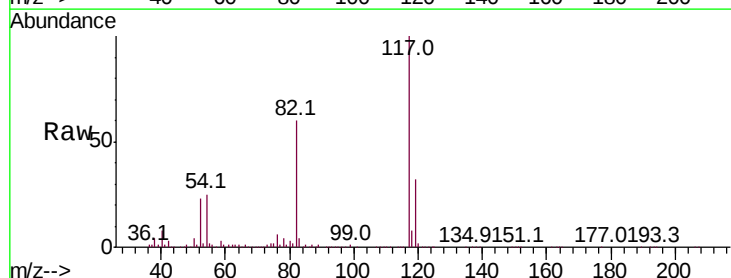


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

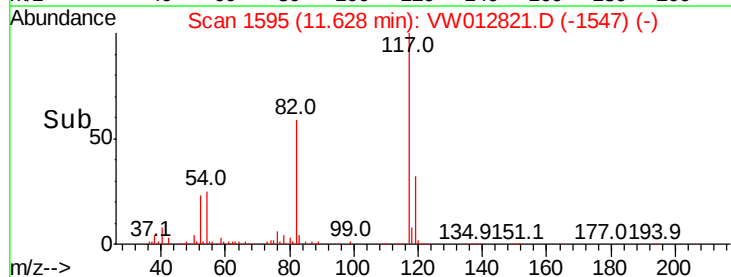
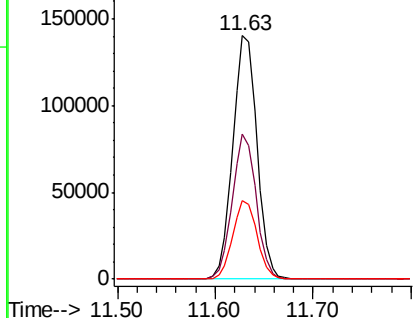


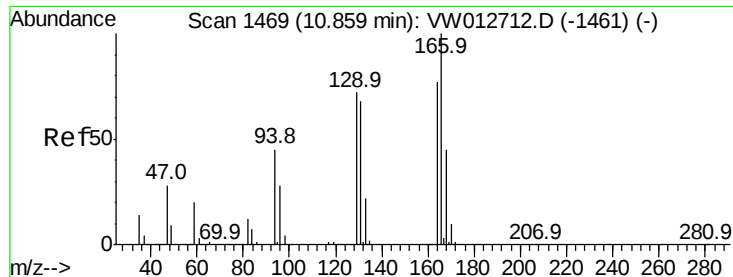
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012821.D
Acq: 09 Sep 2019 15:07

Tgt Ion	117	Resp	241078
Ion Ratio	Lower	Upper	
117	100		
82	59.4	48.2	72.4
119	32.3	25.8	38.6



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





#64

Tetrachloroethene

Concen: 5.870 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:164 Resp: 8587

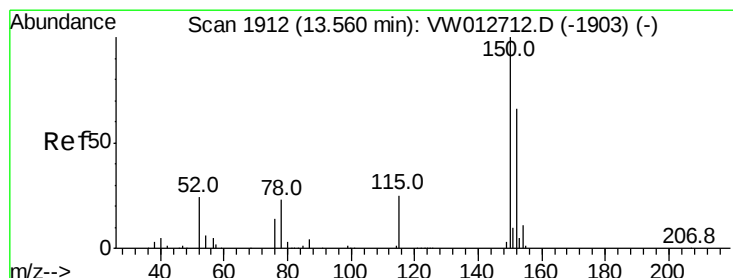
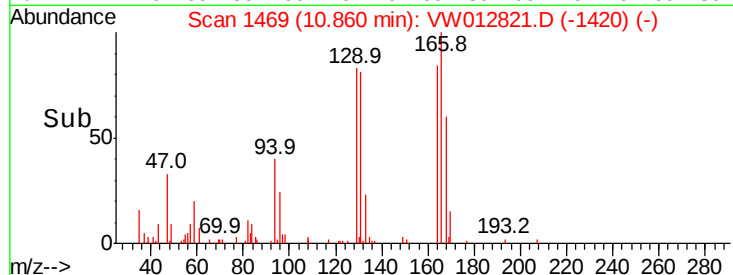
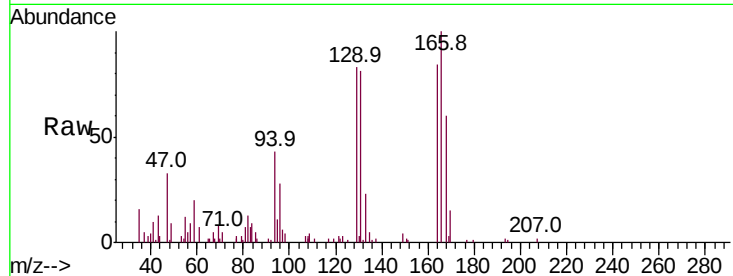
Ion Ratio Lower Upper

164 100

166 118.3 103.6 155.4

129 97.2 74.6 112.0

131 96.2 70.6 106.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

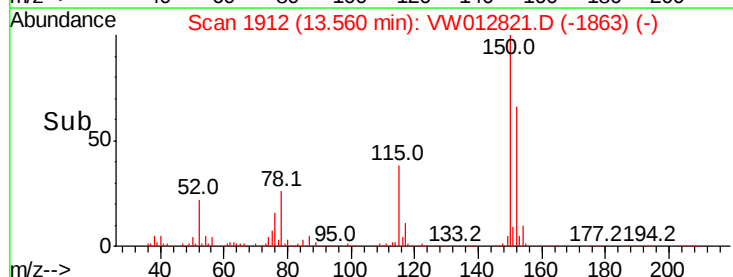
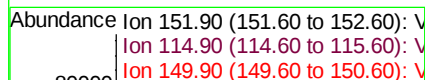
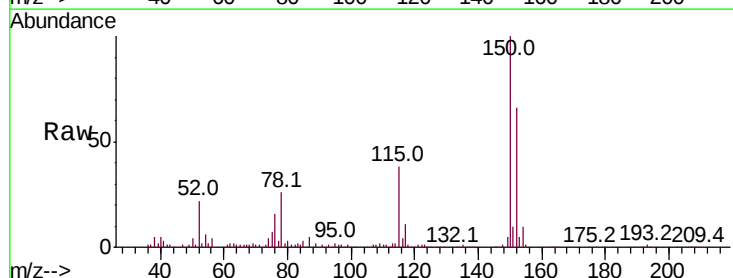
Tgt Ion:152 Resp: 70170

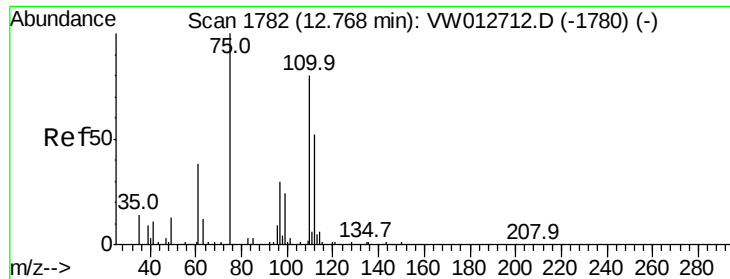
Ion Ratio Lower Upper

152 100

115 56.8 30.0 90.1

150 154.0 0.0 349.0

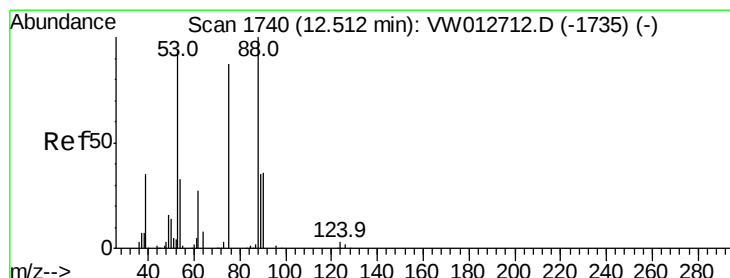
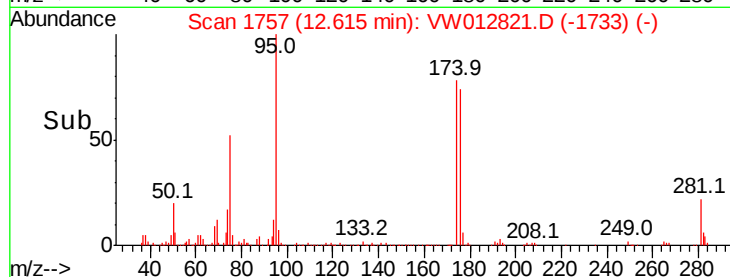
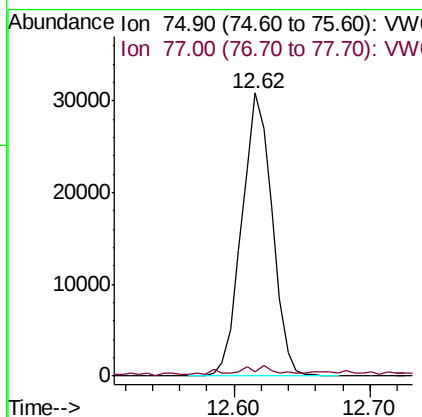
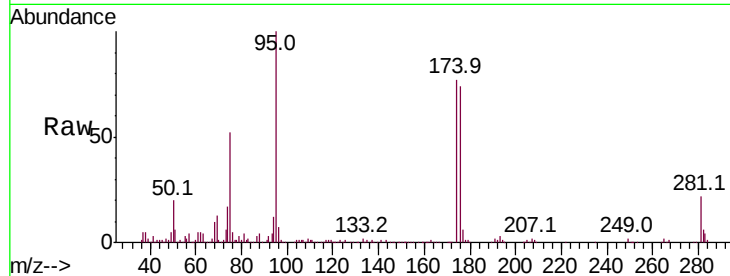




#76
 1,2,3-Trichloropropane
 Concen: 67.239 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW012821.D
 Acq: 09 Sep 2019 15:07

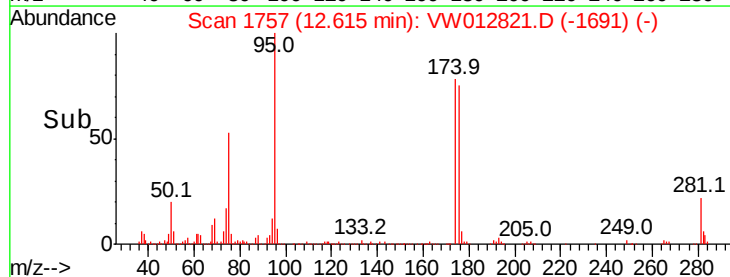
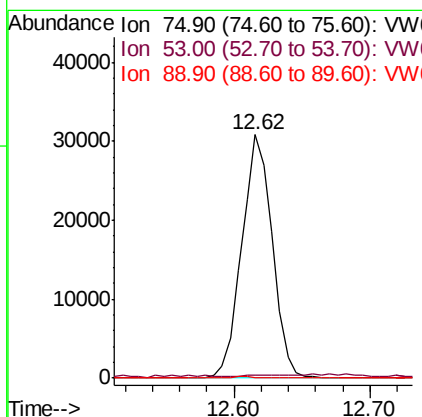
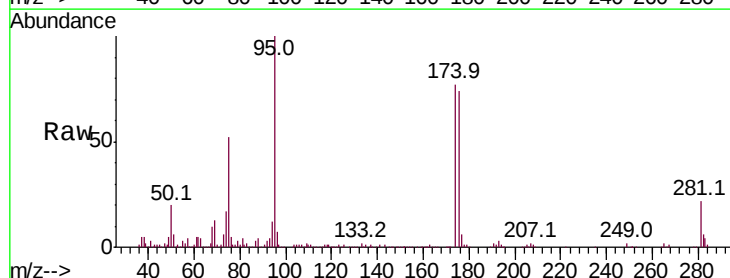
Instrument :
 MSVOA_W
 ClientSampleId :

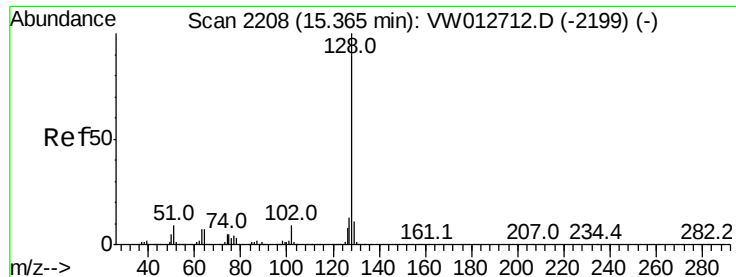
Tot Ion: 75 Resp: 48245
 Ion Ratio Lower Upper
 75 100
 77 2.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 142.214 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW012821.D
 Acq: 09 Sep 2019 15:07

Tgt Ion: 75 Resp: 48245
 Ion Ratio Lower Upper
 75 100
 53 0.5 87.6 131.4#
 89 0.7 35.5 53.3#





#95

Naphthalene

Concen: 4.773 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012821.D

Acq: 09 Sep 2019 15:07

Instrument :

MSVOA_W

ClientSampleId :

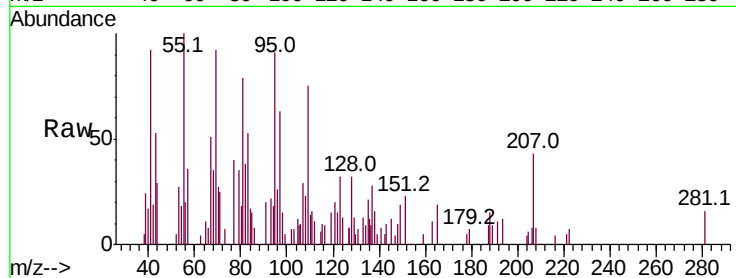
Tot Ion:128 Resp: 1078

Ion Ratio Lower Upper

128 100

127 19.4 10.7 16.1#

129 13.6 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

