

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062819\
 Data File : VW011034.D
 Acq On : 28 Jun 2019 00:00
 Operator : SY/VA
 Sample : K3532-09
 Misc : 5.47G/5ML/MSVOA W/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 28 08:34:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W062819S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 28 01:55:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	154082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	253584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	150205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	34920	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	99856	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	7.88	113	69760	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	
50) Toluene-d8	10.32	98	209468	32.86	ug/l	0.00
Spiked Amount			Recovery	=	65.72%	
62) 4-Bromofluorobenzene	12.62	95	48841	20.95	ug/l	0.00
Spiked Amount			Recovery	=	41.90%	

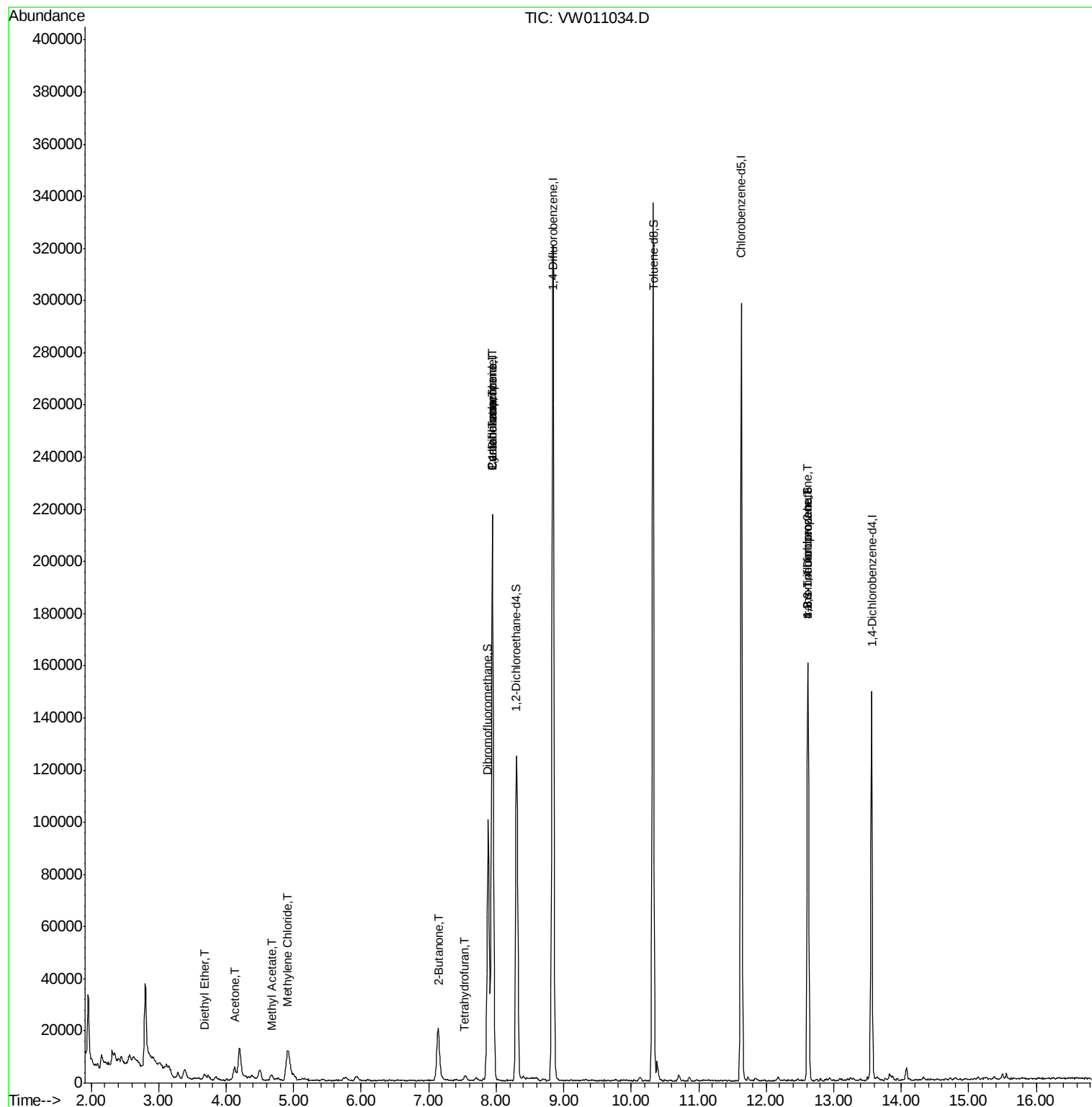
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.67	74	1150	1.219	ug/l	78
16) Acetone	4.12	43	8995	18.295	ug/l	94
18) Methyl Acetate	4.67	43	5307	4.167	ug/l	92
20) Methylene Chloride	4.91	84	9749	4.880	ug/l	99
25) 2-Butanone	7.15	43	1645	2.201	ug/l #	54
29) Tetrahydrofuran	7.52	42	776	1.668	ug/l #	87
31) Cyclohexane	7.94	56	4391	1.140	ug/l #	1
36) 1,1-Dichloropropene	7.94	75	14008	5.139	ug/l #	51
38) Carbon Tetrachloride	7.95	117	15702	6.996	ug/l #	16
76) 1,2,3-Trichloropropane	12.62	75	26158	70.953	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	26158	142.685	ug/l #	3

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011034.D

Acq: 28 Jun 2019 00:00

Instrument :

MSVOA_W

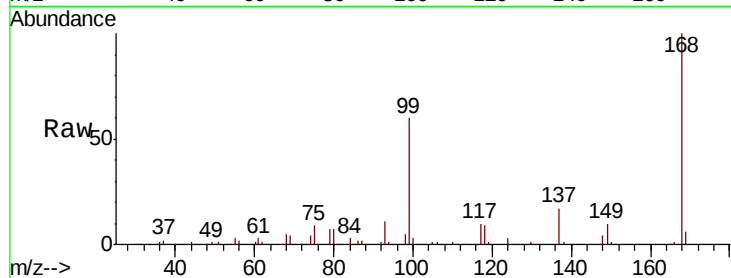
ClientSampled :

Tot Ion:168 Resp: 154082

Ion Ratio Lower Upper

168 100

99 59.9 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

80000

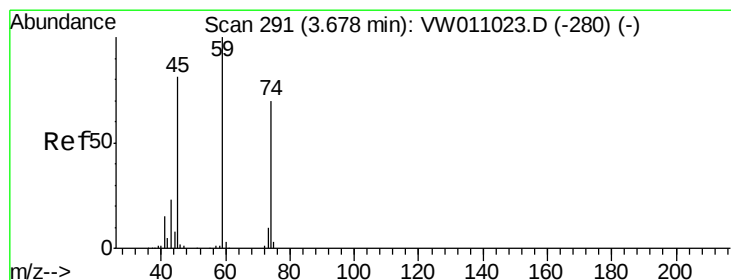
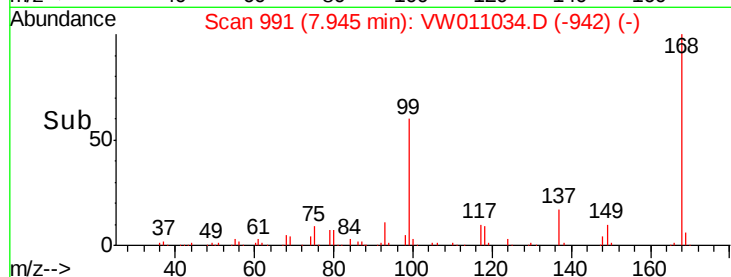
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 1.219 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW011034.D

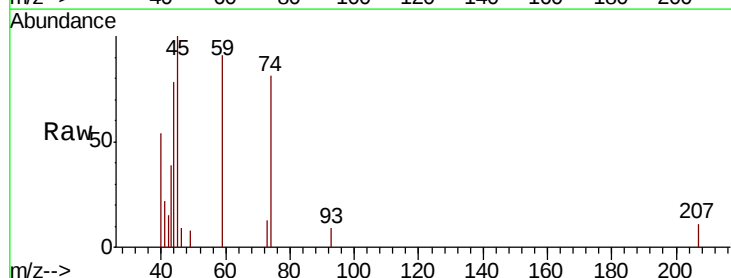
Acq: 28 Jun 2019 00:00

Tgt Ion: 74 Resp: 1150

Ion Ratio Lower Upper

74 100

45 142.9 59.5 178.5



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

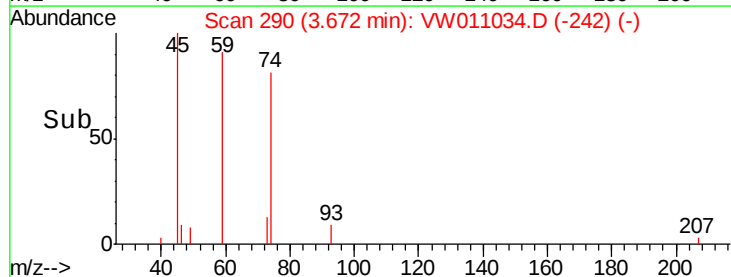
600

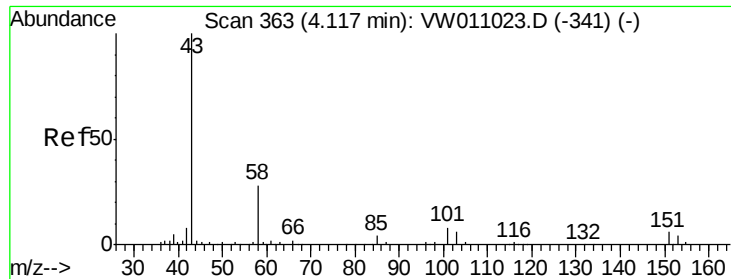
400

200

0

Time--> 3.60 3.65 3.70 3.75





#16

Acetone

Concen: 18.295 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011034.D

Acq: 28 Jun 2019 00:00

Instrument :

MSVOA_W

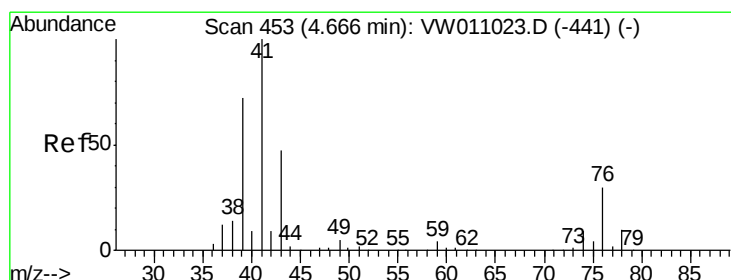
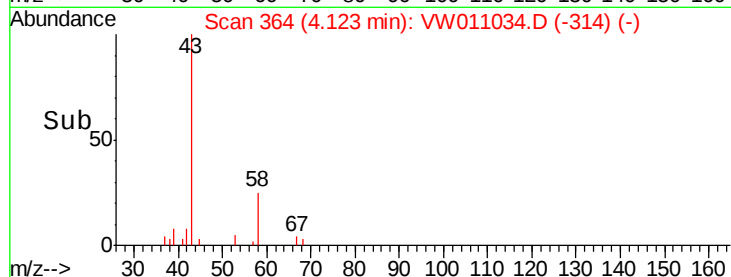
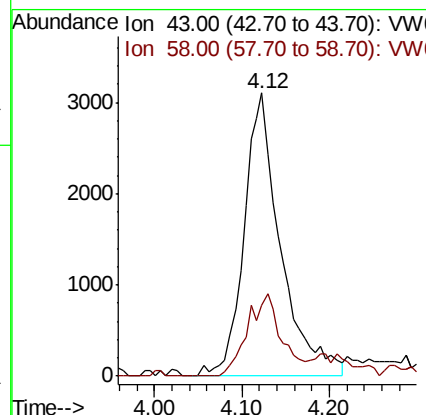
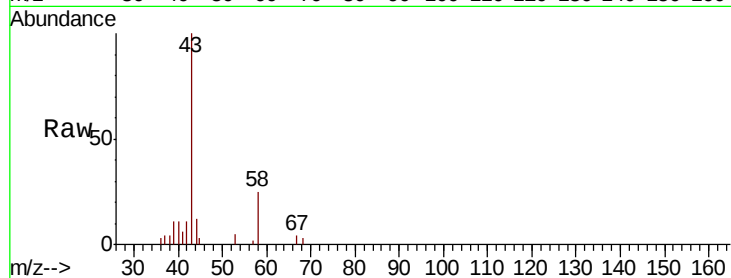
ClientSampled :

Tot Ion: 43 Resp: 8995

Ion Ratio Lower Upper

43 100

58 25.2 22.5 33.7



#18

Methyl Acetate

Concen: 4.167 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW011034.D

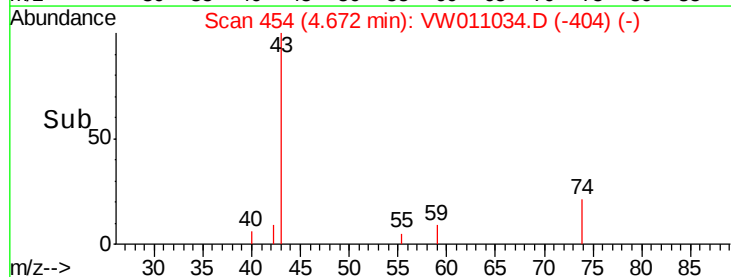
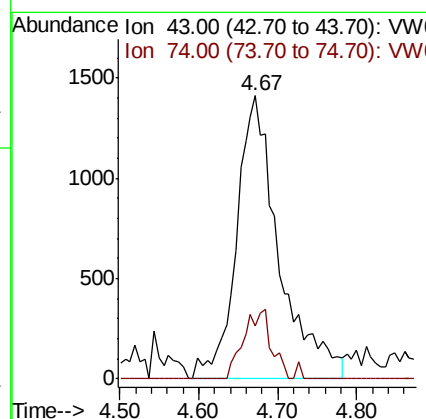
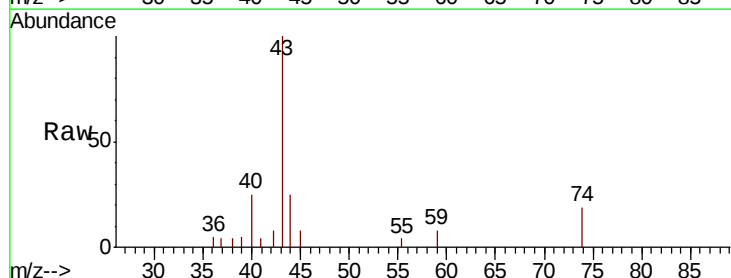
Acq: 28 Jun 2019 00:00

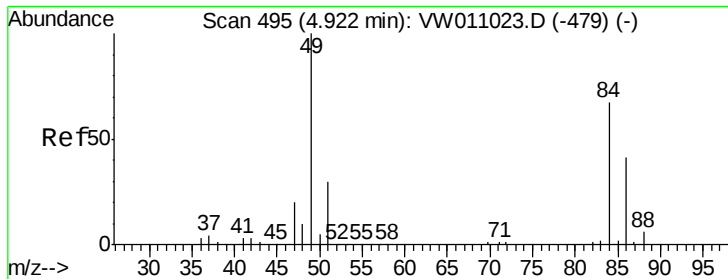
Tgt Ion: 43 Resp: 5307

Ion Ratio Lower Upper

43 100

74 15.9 15.8 23.8

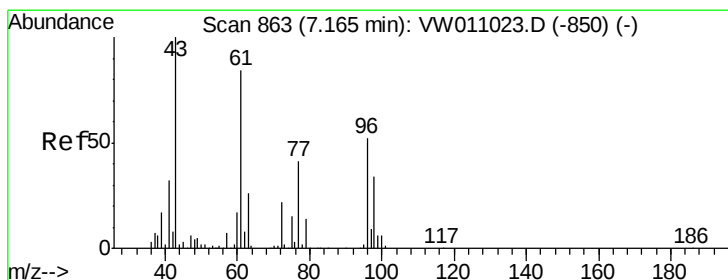
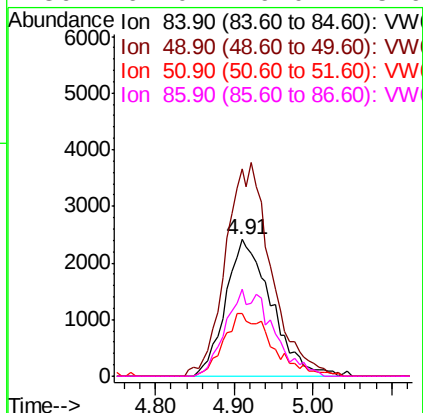
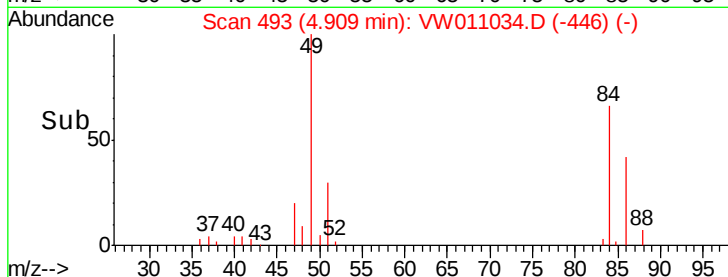
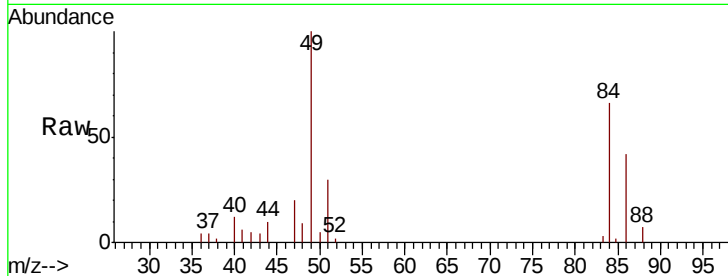




#20
Methvlene Chloride
Concen: 4.880 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011034.D
Acq: 28 Jun 2019 00:00

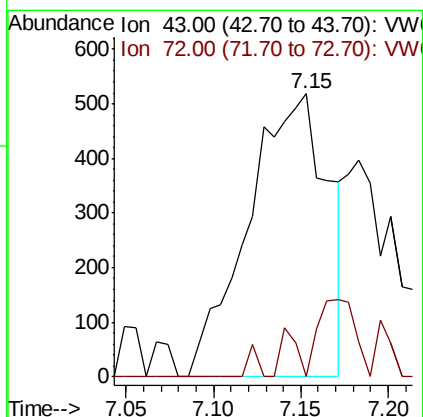
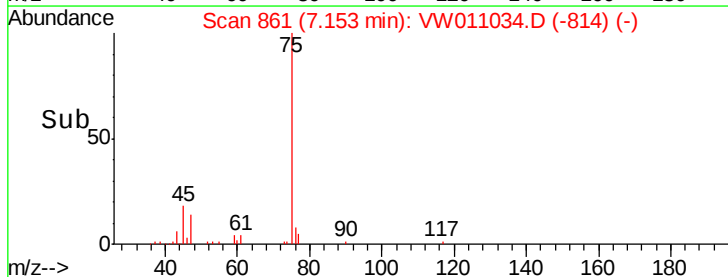
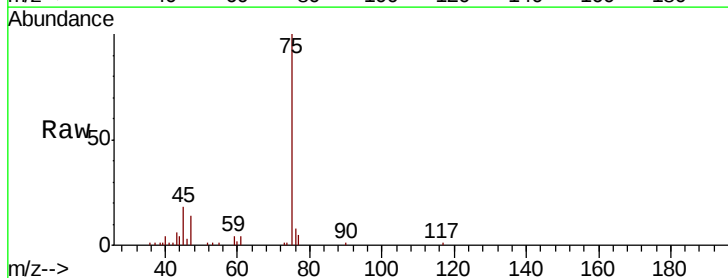
Instrument :
MSVOA_W
ClientSampleId :

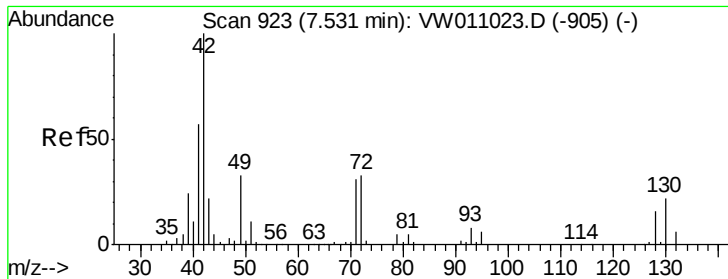
Tot Ion:	84	Resp:	9749
Ion	Ratio	Lower	Upper
84	100		
49	149.5	119.6	179.4
51	46.4	35.6	53.4
86	64.0	49.0	73.6



#25
2-Butanone
Concen: 2.201 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.01 min
Lab File: VW011034.D
Acq: 28 Jun 2019 00:00

Tgt Ion:	43	Resp:	1645
Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.2	25.8#

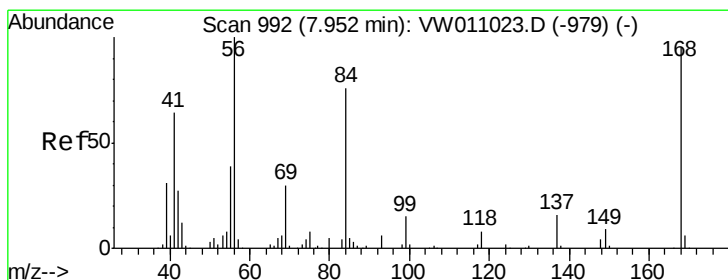
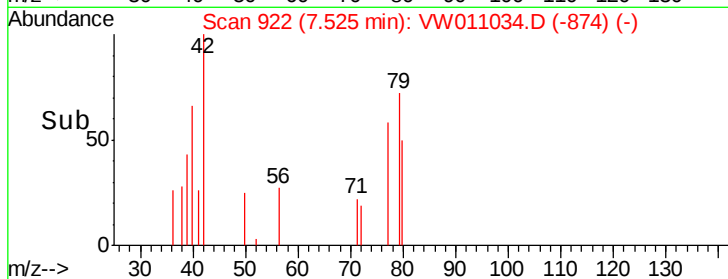
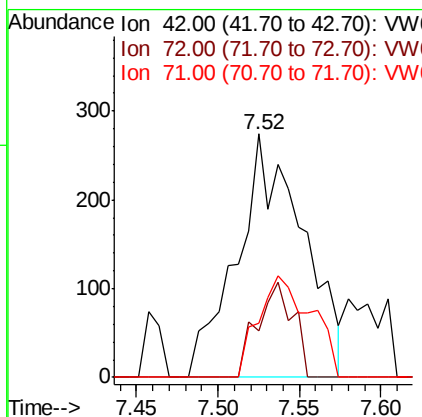
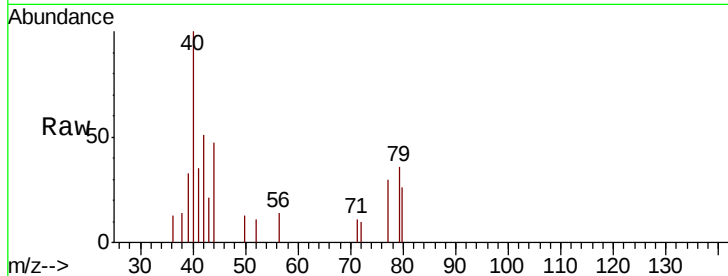




#29
Tetrahydrofuran
Concen: 1.668 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW011034.D
Acq: 28 Jun 2019 00:00

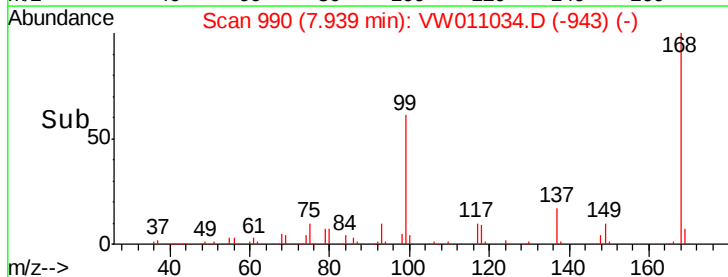
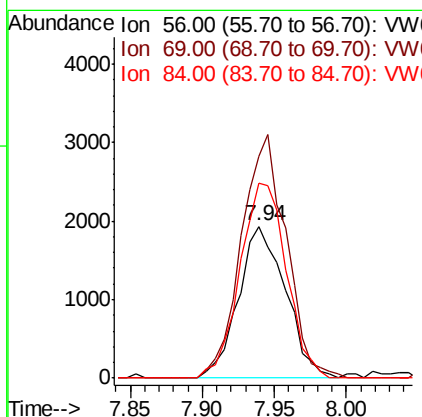
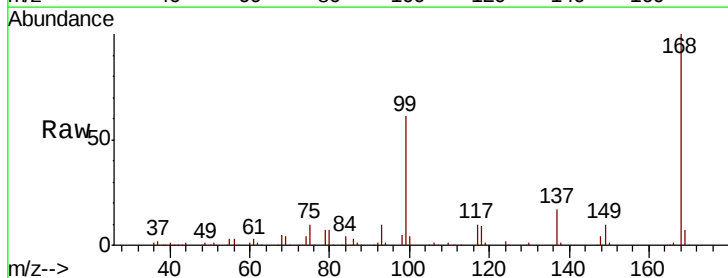
Instrument :
MSVOA_W
ClientSampleId :

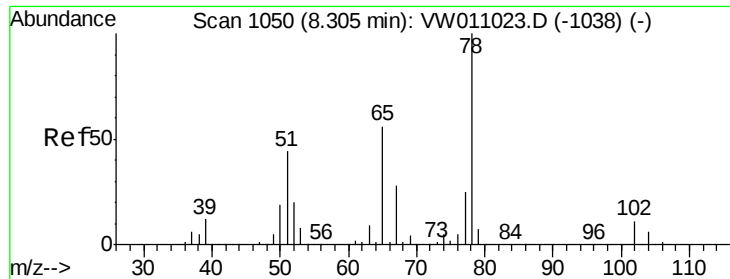
Tot Ion: 42 Resp: 776
Ion Ratio Lower Upper
42 100
72 21.0 27.4 41.0#
71 33.0 25.6 38.4



#31
Cyclohexane
Concen: 1.140 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW011034.D
Acq: 28 Jun 2019 00:00

Tgt Ion: 56 Resp: 4391
Ion Ratio Lower Upper
56 100
69 146.1 24.2 36.2#
84 128.1 60.6 90.8#

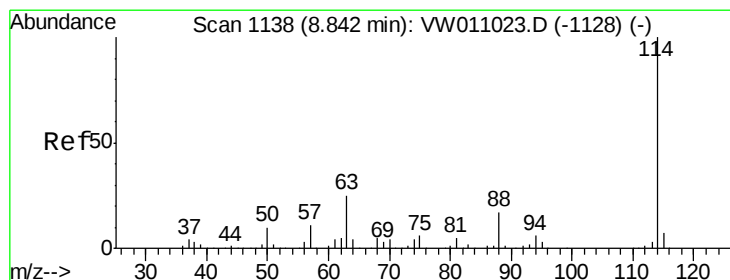
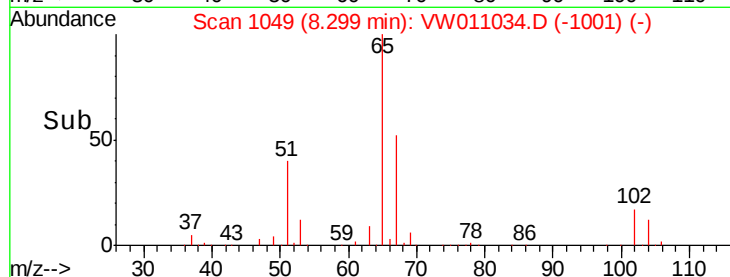
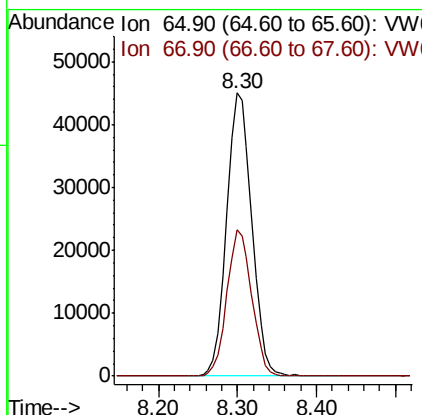
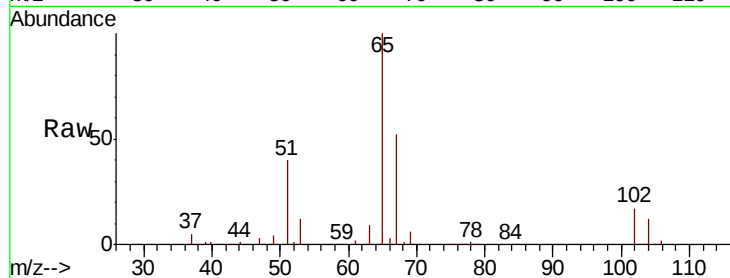




#33
 1,2-Dichloroethane-d4
 Concen: 49.574 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW011034.D
 Acq: 28 Jun 2019 00:00

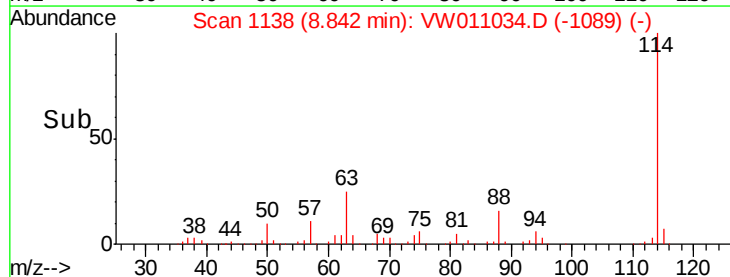
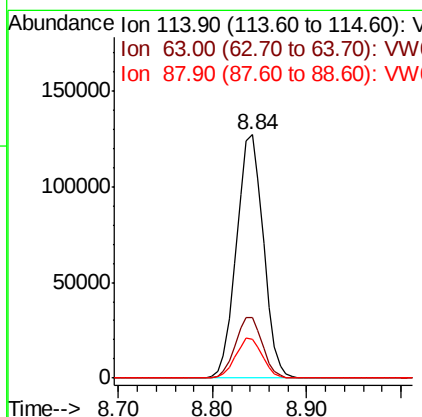
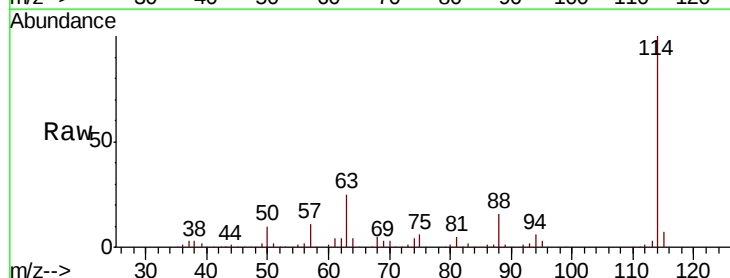
Instrument :
 MSVOA_W
 ClientSampled :

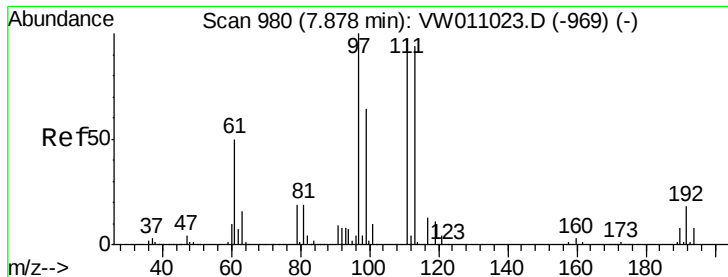
Tot Ion: 65 Resp: 99856
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011034.D
 Acq: 28 Jun 2019 00:00

Tgt Ion: 114 Resp: 253584
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 50.6
 88 15.9 0.0 34.0





#35

Dibromofluoromethane

Concen: 45.050 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW011034.D

Acq: 28 Jun 2019 00:00

Instrument :
MSVOA_W
ClientSampleId :

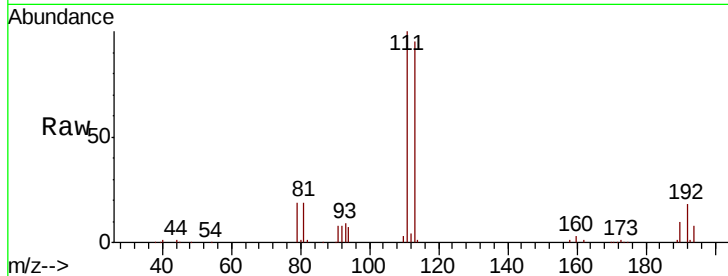
Tot Ion:113 Resp: 69760

Ion Ratio Lower Upper

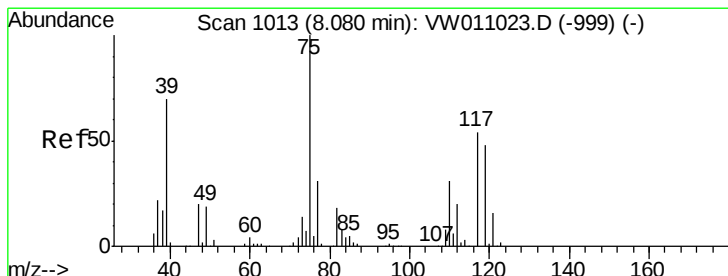
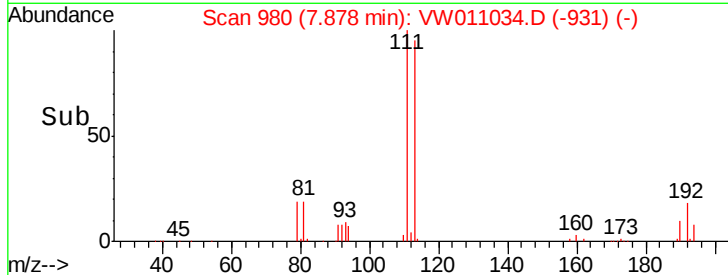
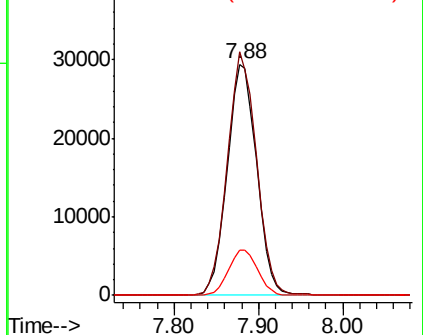
113 100

111 104.5 83.8 125.6

192 19.5 16.0 24.0



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: 5.139 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW011034.D

Acq: 28 Jun 2019 00:00

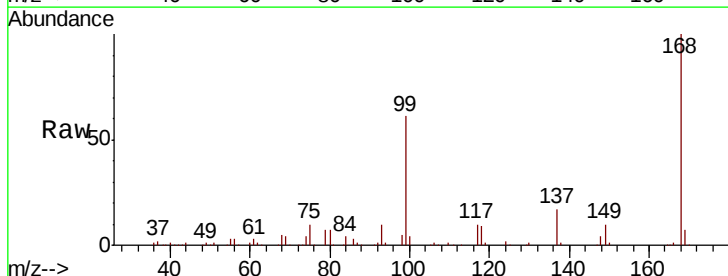
Tgt Ion: 75 Resp: 14008

Ion Ratio Lower Upper

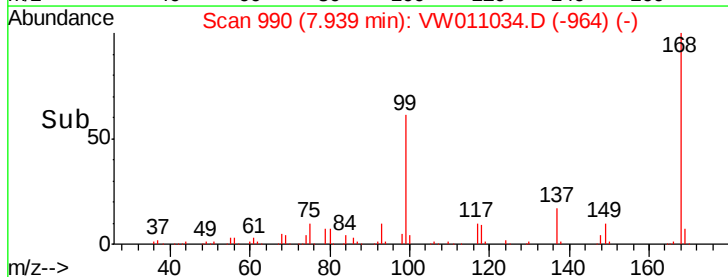
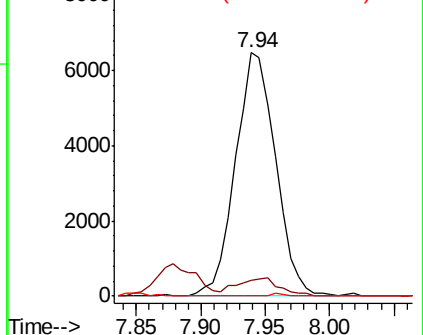
75 100

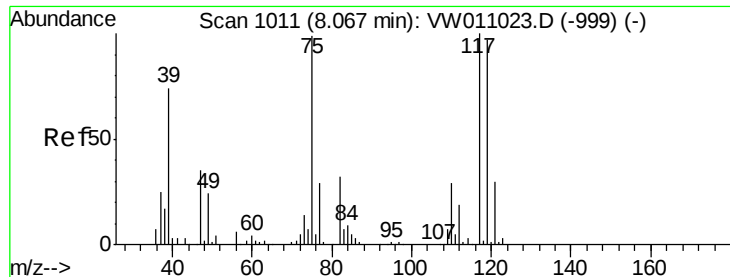
110 7.8 15.5 46.5#

77 0.3 24.9 37.3#



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

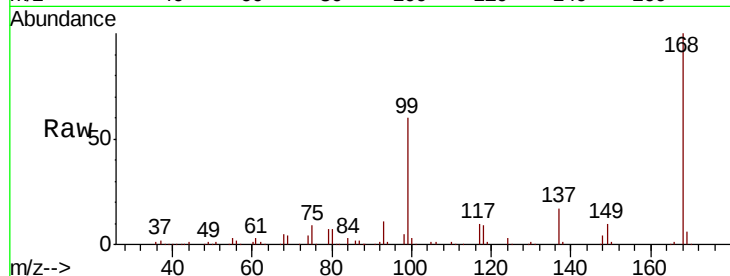




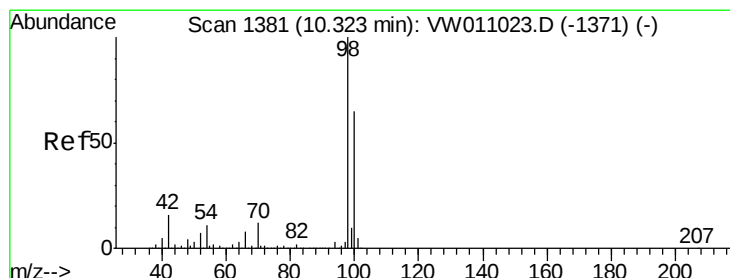
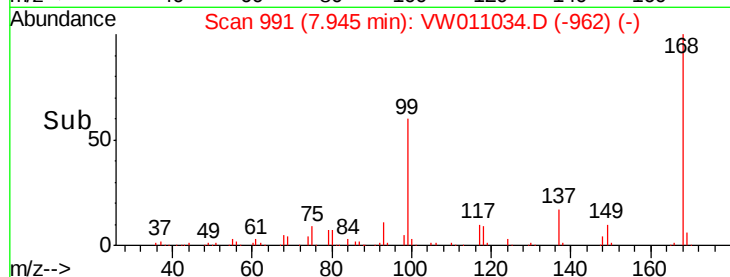
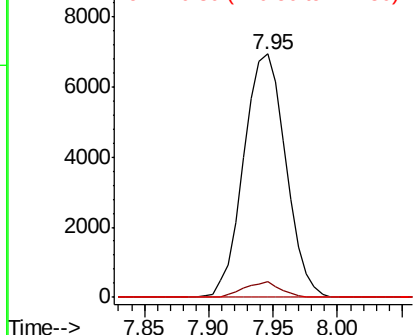
#38
Carbon Tetrachloride
Concen: 6.996 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011034.D
Acq: 28 Jun 2019 00:00

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 15702
Ion Ratio Lower Upper
117 100
119 6.4 77.7 116.5#
121 0.0 23.9 35.9#

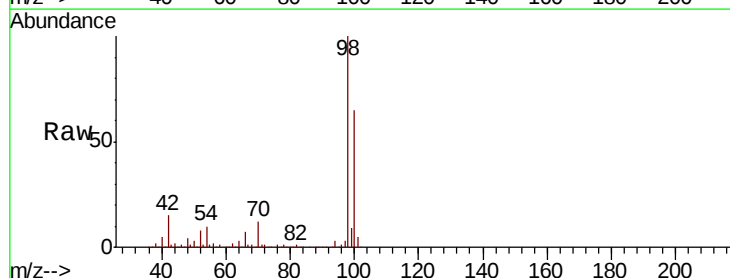


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

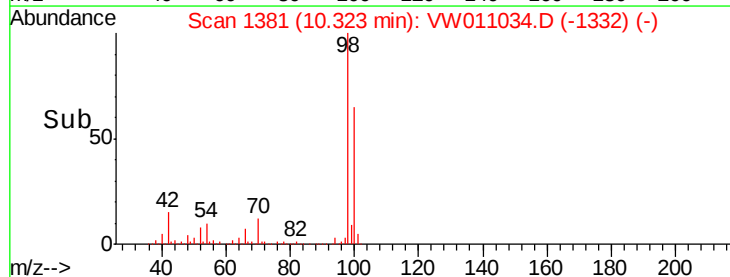
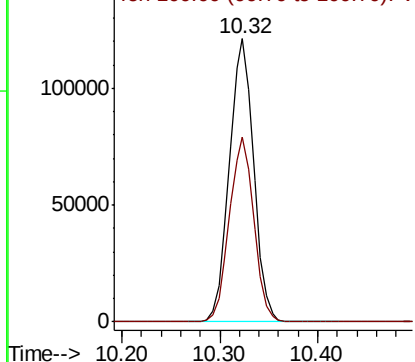


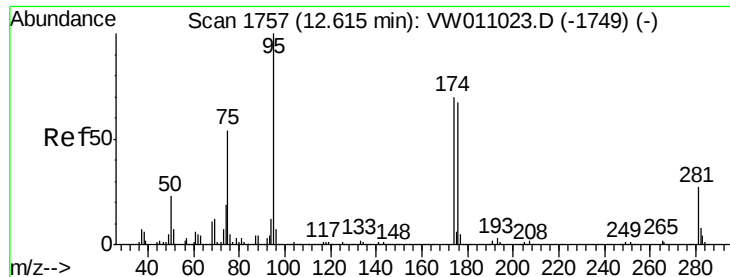
#50
Toluene-d8
Concen: 32.863 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011034.D
Acq: 28 Jun 2019 00:00

Tgt Ion: 98 Resp: 209468
Ion Ratio Lower Upper
98 100
100 65.5 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 20.950 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011034.D

Acq: 28 Jun 2019 00:00

Instrument :

MSVOA_W

ClientSampleId :

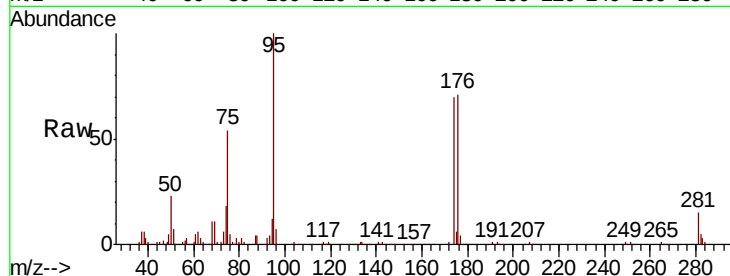
Tot Ion: 95 Resp: 48841

Ion Ratio Lower Upper

95 100

174 73.1 0.0 149.2

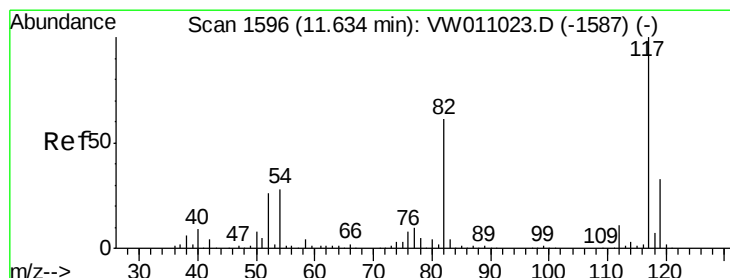
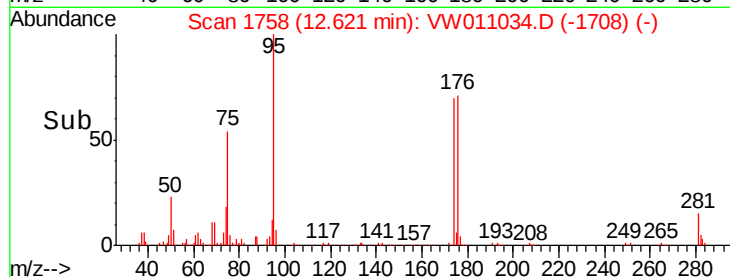
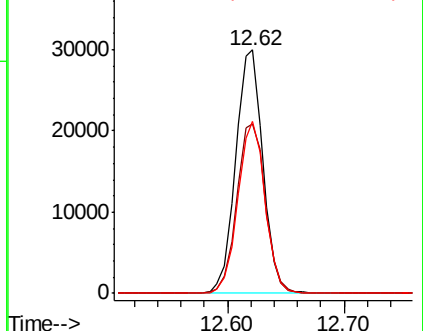
176 70.4 0.0 143.6



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: VW011034.D

Acq: 28 Jun 2019 00:00

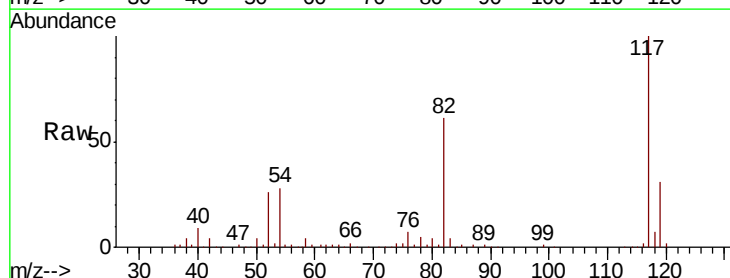
Tgt Ion: 117 Resp: 150205

Ion Ratio Lower Upper

117 100

82 61.0 48.6 73.0

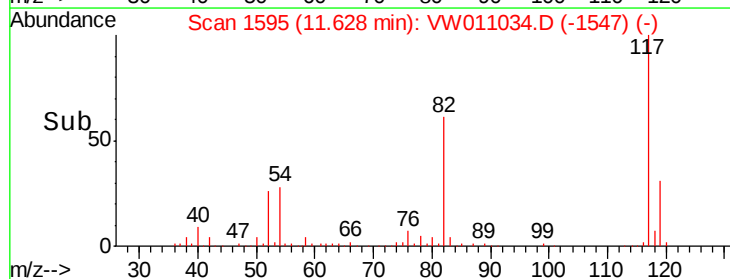
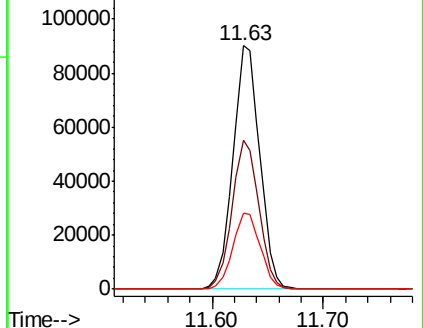
119 31.0 26.1 39.1

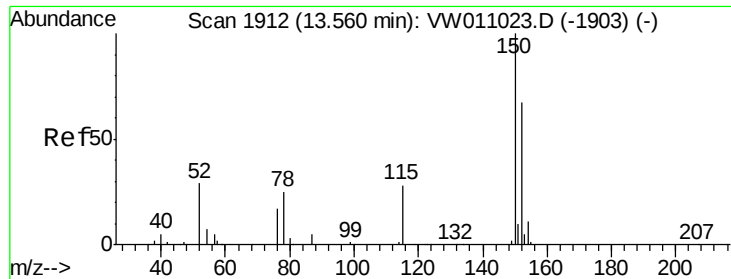


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011034.D

Acq: 28 Jun 2019 00:00

Instrument :

MSVOA_W

ClientSampleId :

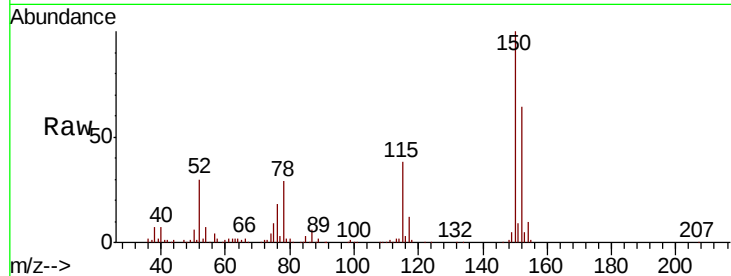
Tot Ion:152 Resp: 34920

Ion Ratio Lower Upper

152 100

115 61.5 30.7 92.1

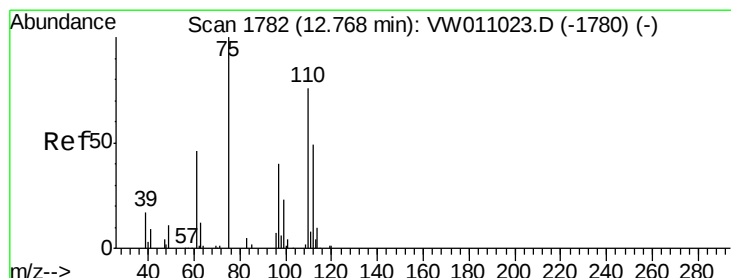
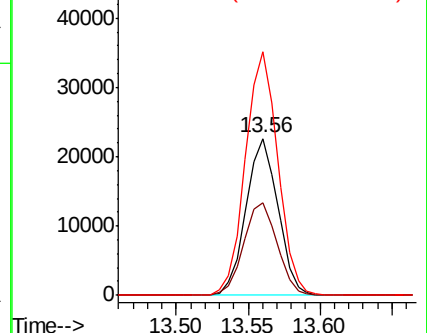
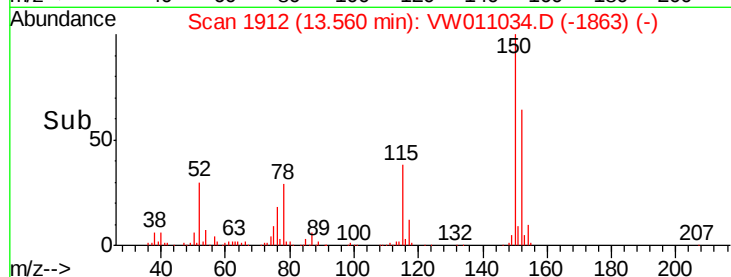
150 157.1 0.0 341.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 70.953 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW011034.D

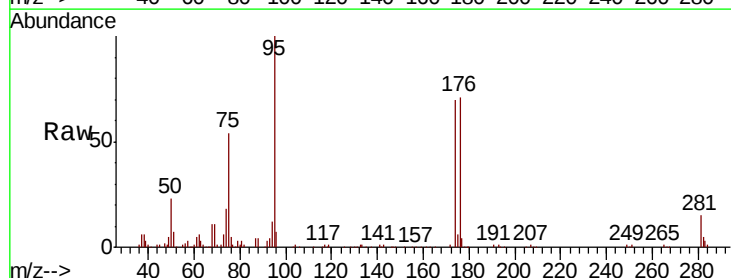
Acq: 28 Jun 2019 00:00

Tgt Ion: 75 Resp: 26158

Ion Ratio Lower Upper

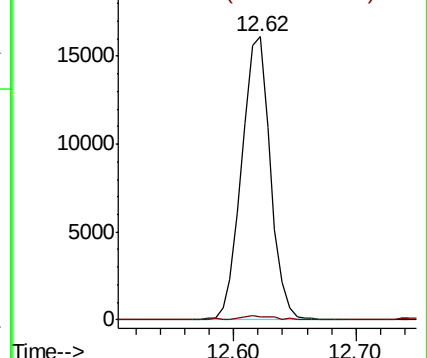
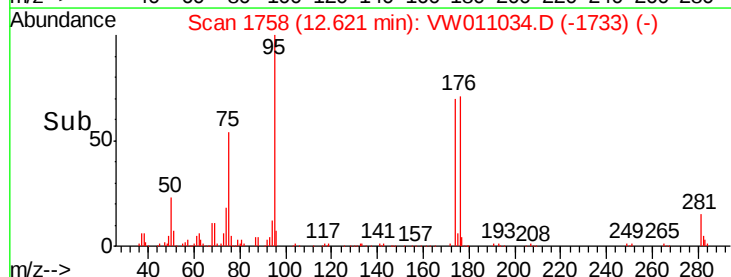
75 100

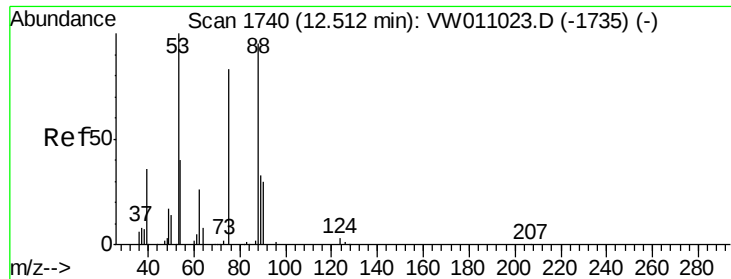
77 1.6 0.0 0.0#



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: 142.685 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW011034.D

Acq: 28 Jun 2019 00:00

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 75 Resp: 26158

Ion Ratio Lower Upper

75 100

53 0.0 95.6 143.4#

89 0.2 34.4 51.6#

