

Data File : VW012359.D
Acq On : 30 Aug 2019 19:09
Operator : SY/VA
Sample : K4439-03
Misc : 4.33G/5ML/MSVOA_W/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
S-2-(1-3)

Quant Time: Aug 31 03:06:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	179913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	290784	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	176206	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	36340	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	120025	56.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.24%	
35) Dibromofluoromethane	7.88	113	95829	55.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.42%	
50) Toluene-d8	10.32	98	330098	46.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.80%	
62) 4-Bromofluorobenzene	12.62	95	58975	23.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.54%	

Target Compounds

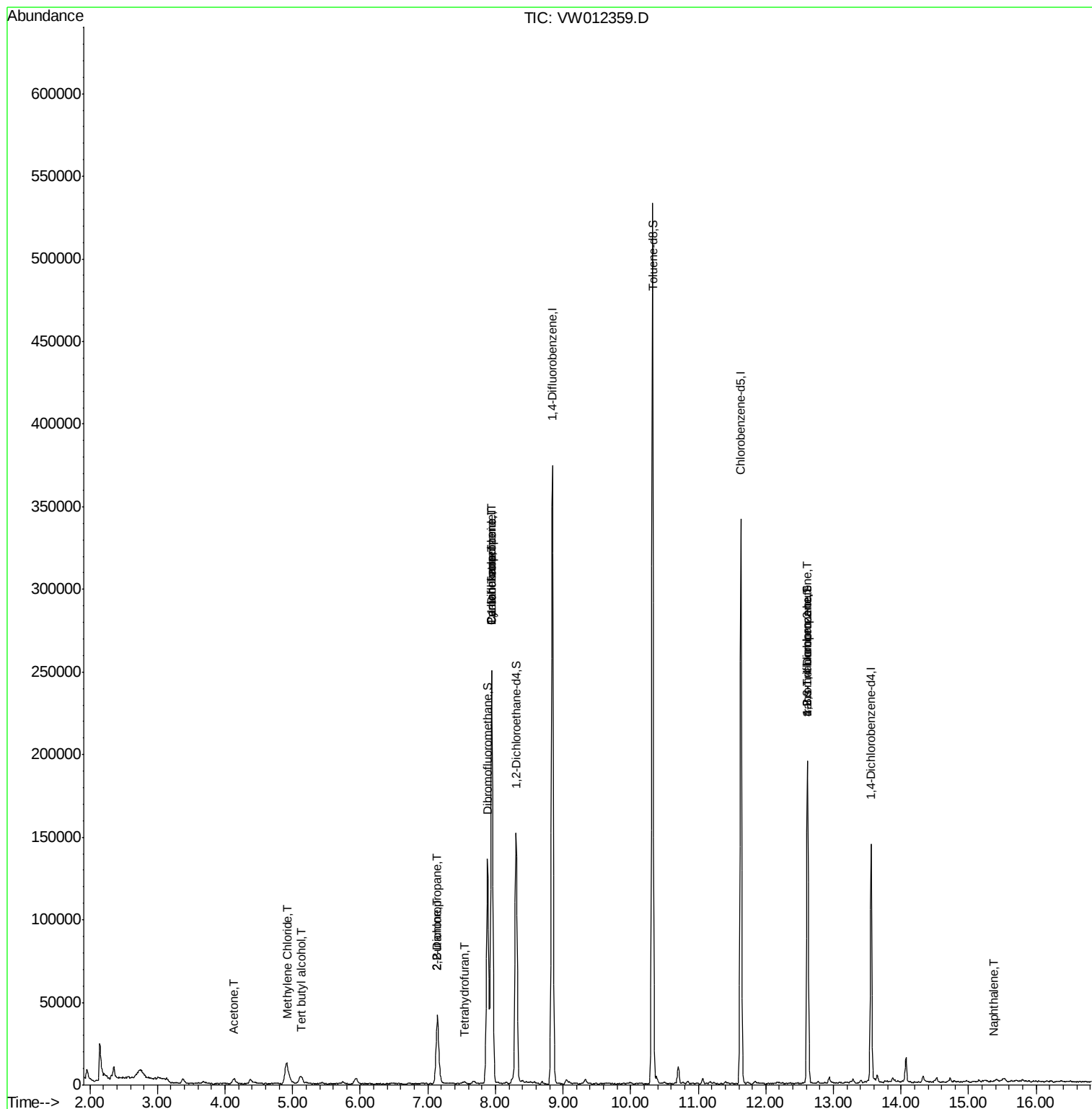
						Qvalue
11) Tert butyl alcohol	5.12	59	4976	38.661	ug/l #	74
16) Acetone	4.13	43	5879	10.754	ug/l	96
20) Methylene Chloride	4.92	84	9072	4.389	ug/l	97
25) 2-Butanone	7.14	43	3199	4.306	ug/l #	89
26) 2,2-Dichloropropane	7.13	77	2948	1.338	ug/l #	54
29) Tetrahydrofuran	7.54	42	1065	2.389	ug/l	96
31) Cyclohexane	7.95	56	4997	1.297	ug/l #	4
36) 1,1-Dichloropropene	7.95	75	15725	5.233	ug/l #	53
38) Carbon Tetrachloride	7.95	117	18405	7.077	ug/l #	17
76) 1,2,3-Trichloropropane	12.62	75	31615	89.327	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	31615	195.852	ug/l #	6
95) Naphthalene	15.37	128	513	4.663	ug/l #	75

(#) = 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: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA_W

ClientSampleId :

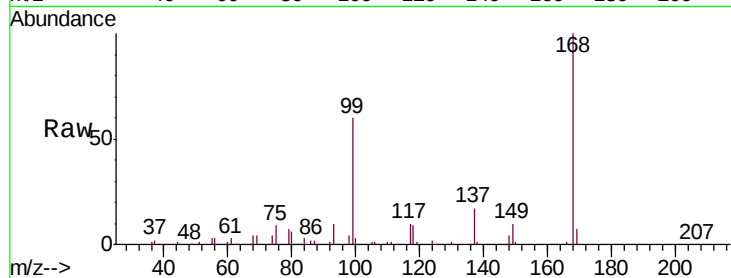
S-2-(1-3)

Tgt Ion: 168 Resp: 179913

Ion Ratio Lower Upper

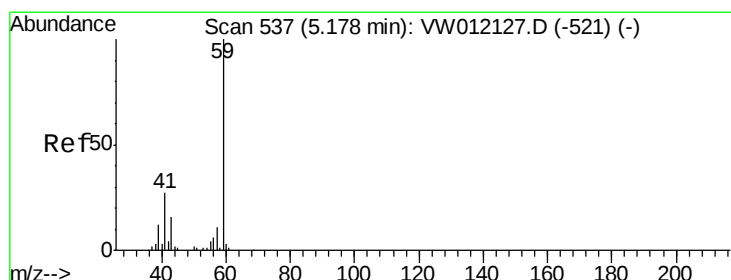
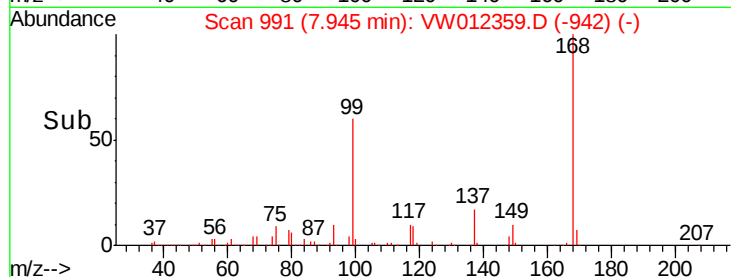
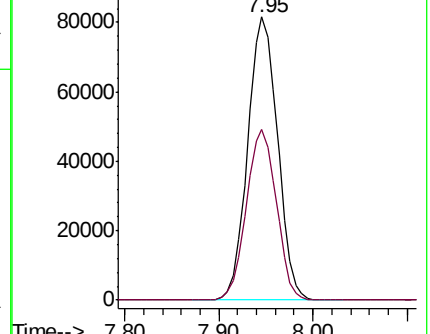
168 100

99 60.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 38.661 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.05 min

Lab File: VW012359.D

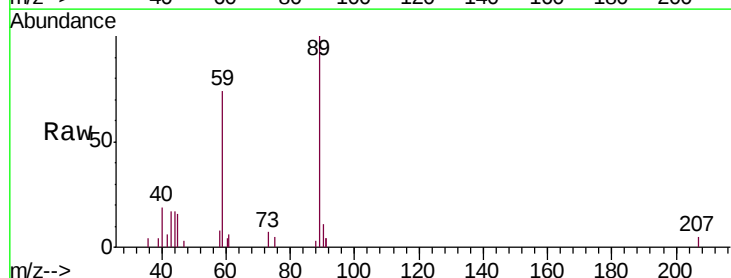
Acq: 30 Aug 2019 19:09

Tgt Ion: 59 Resp: 4976

Ion Ratio Lower Upper

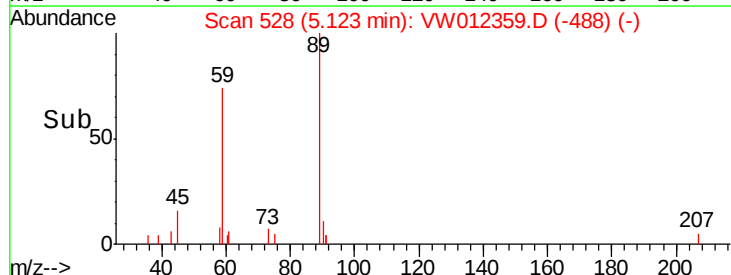
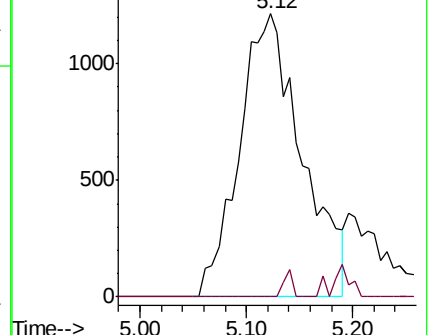
59 100

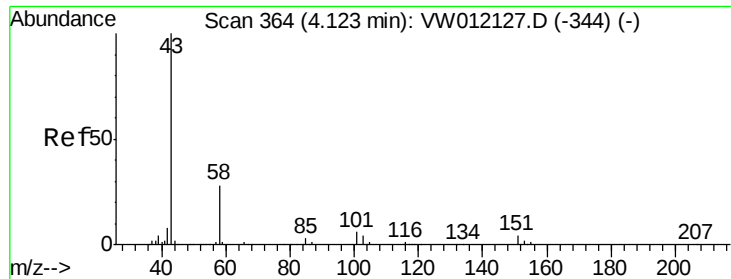
57 1.3 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 10.754 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA_W

ClientSampleId :

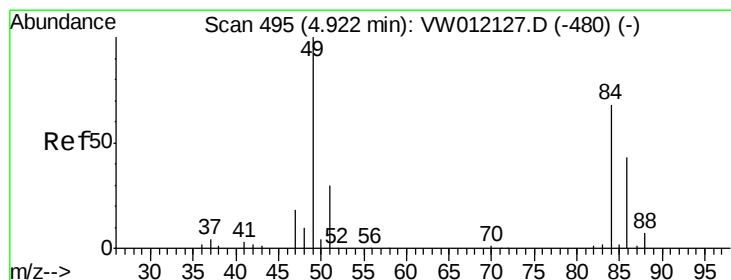
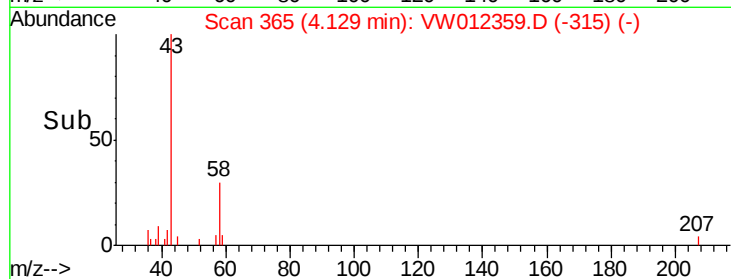
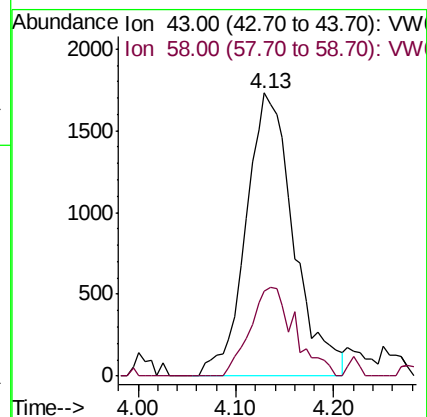
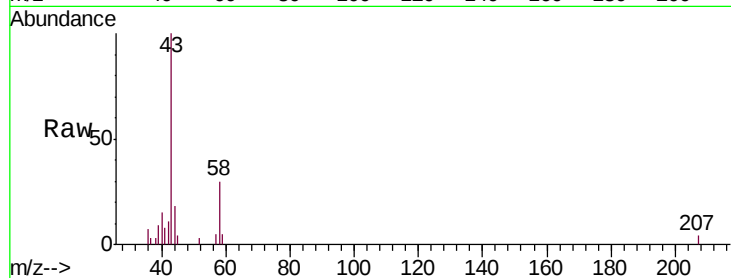
S-2-(1-3)

Tgt Ion: 43 Resp: 5879

Ion Ratio Lower Upper

43 100

58 29.9 22.4 33.6



#20

Methylene Chloride

Concen: 4.389 ug/l

RT: 4.92 min Scan# 494

Delta R.T. -0.01 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Tgt Ion: 84 Resp: 9072

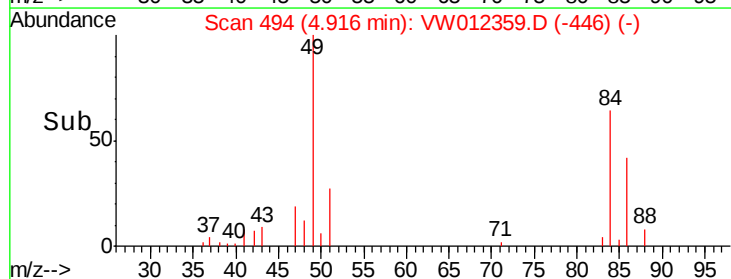
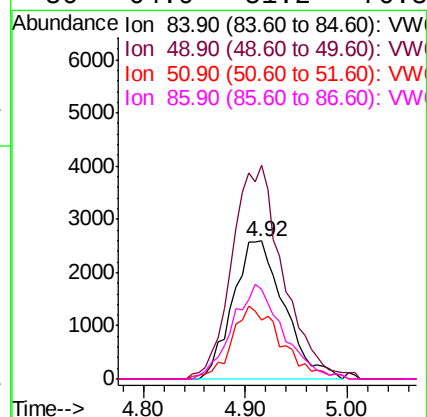
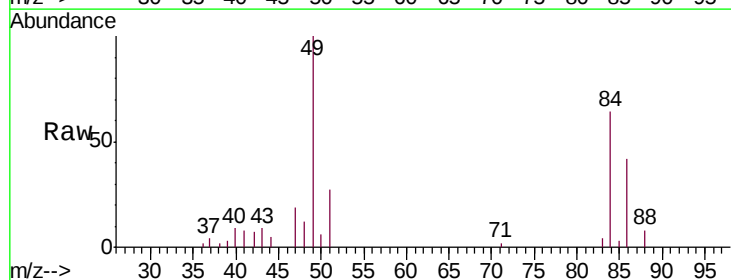
Ion Ratio Lower Upper

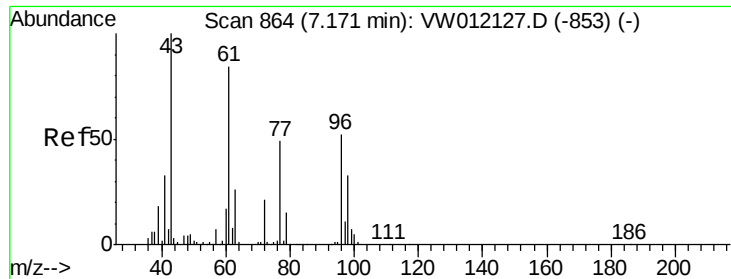
84 100

49 151.5 117.8 176.8

51 40.1 35.6 53.4

86 64.9 51.2 76.8





#25

2-Butanone

Concen: 4.306 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA_W

ClientSampleId :

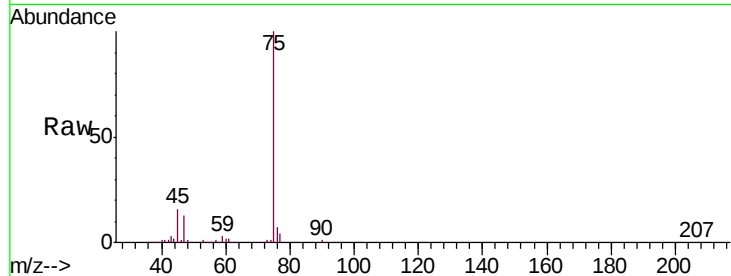
S-2-(1-3)

Tgt Ion: 43 Resp: 3199

Ion Ratio Lower Upper

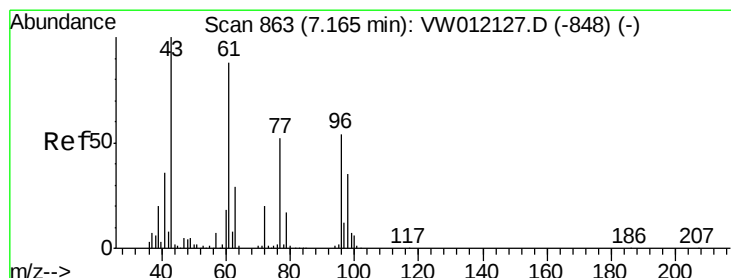
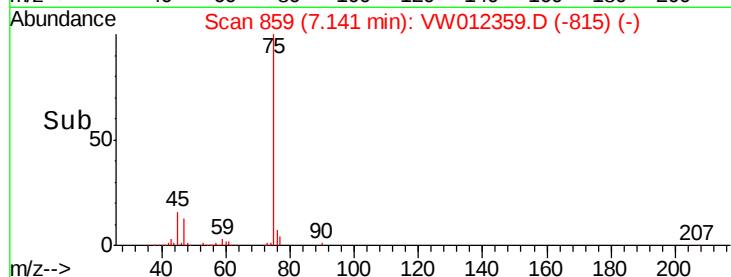
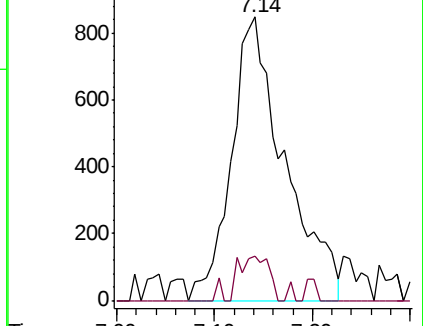
43 100

72 15.6 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.338 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.03 min

Lab File: VW012359.D

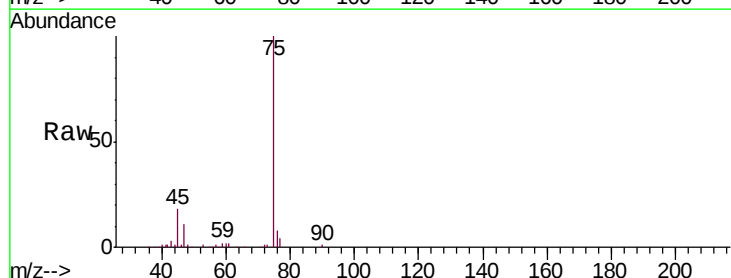
Acq: 30 Aug 2019 19:09

Tgt Ion: 77 Resp: 2948

Ion Ratio Lower Upper

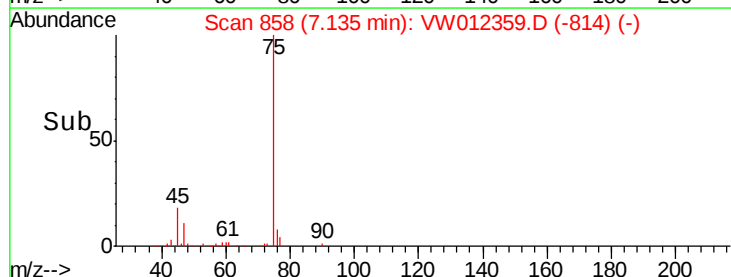
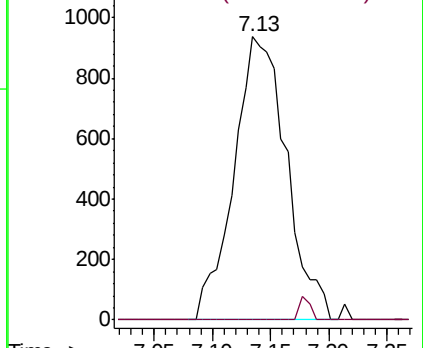
77 100

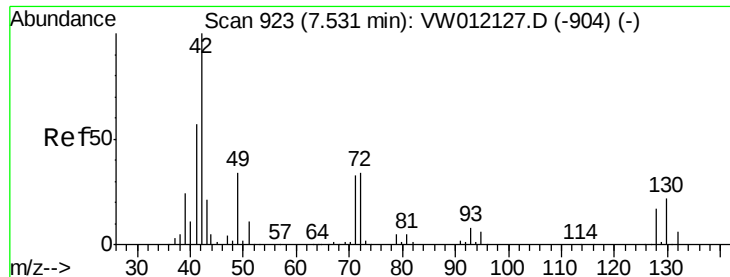
97 0.0 11.1 33.1#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#29

Tetrahydrofuran

Concen: 2.389 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA_W

ClientSampleId :

S-2-(1-3)

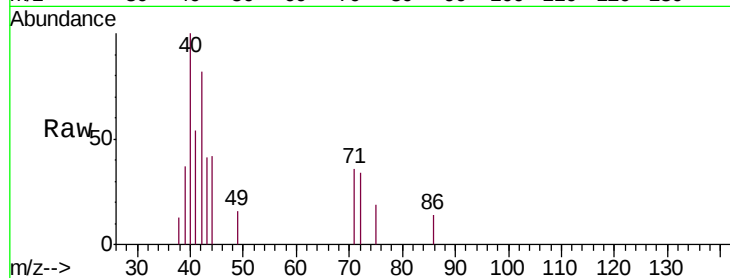
Tgt Ion: 42 Resp: 1065

Ion Ratio Lower Upper

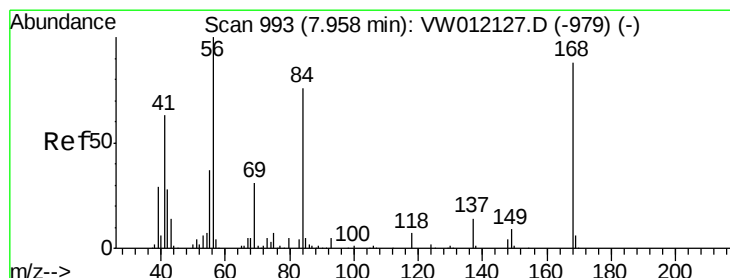
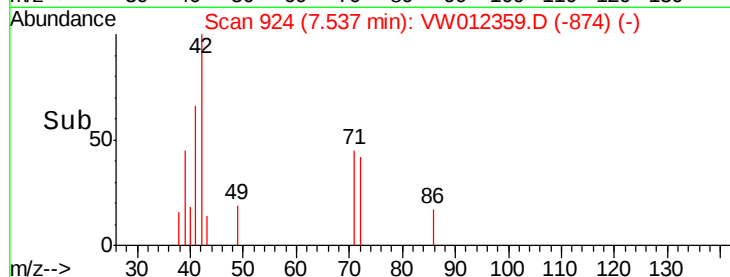
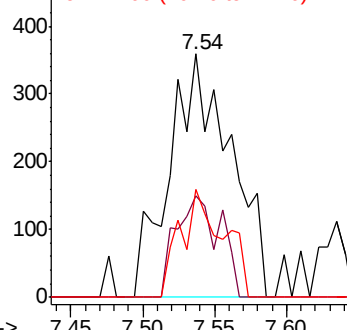
42 100

72 30.0 27.3 40.9

71 31.4 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.297 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

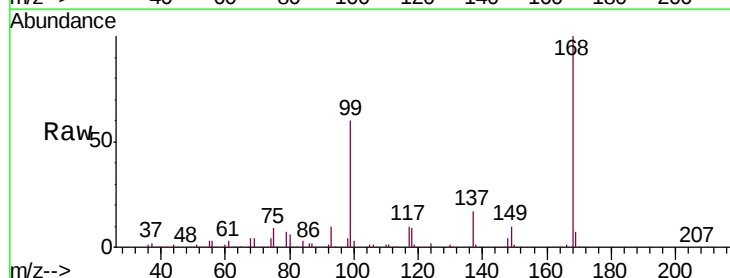
Tgt Ion: 56 Resp: 4997

Ion Ratio Lower Upper

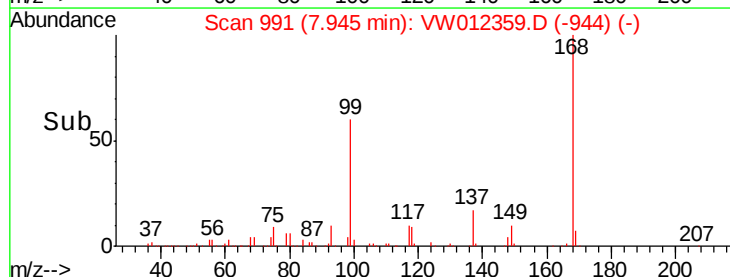
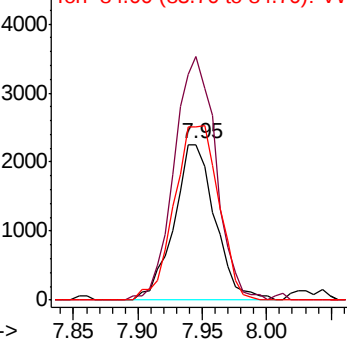
56 100

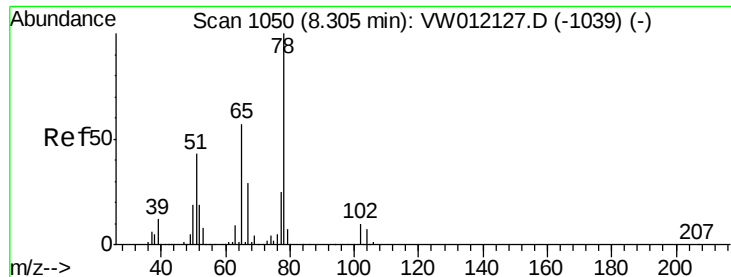
69 156.8 24.9 37.3#

84 111.6 60.6 90.8#



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

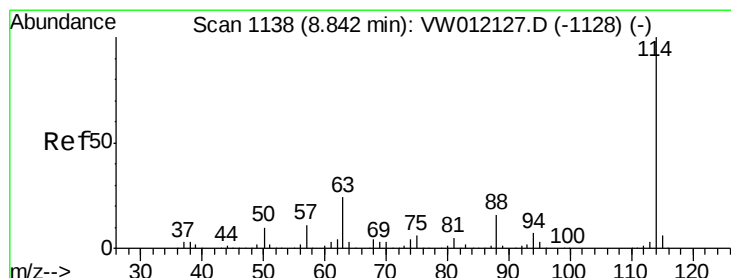
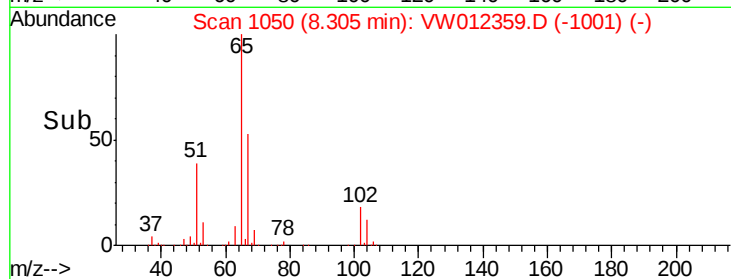
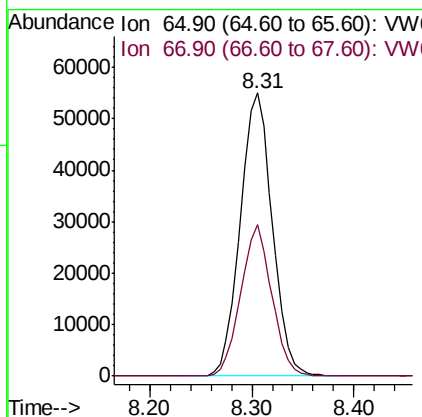
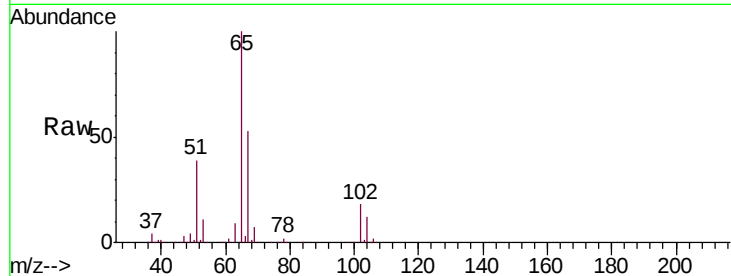




#33
 1,2-Dichloroethane-d4
 Concen: 56.120 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012359.D
 Acq: 30 Aug 2019 19:09

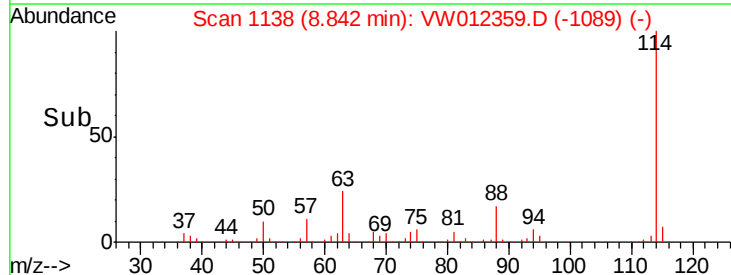
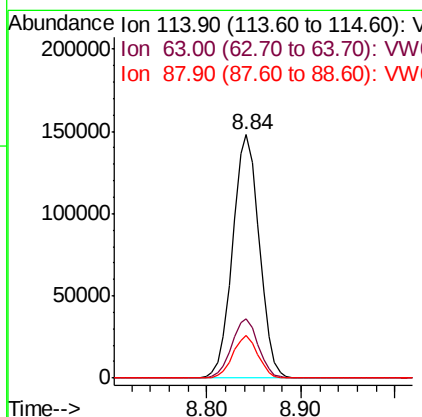
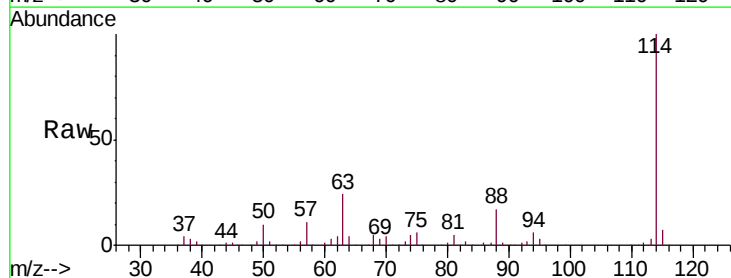
Instrument :
 MSVOA_W
 ClientSampleId :
 S-2-(1-3)

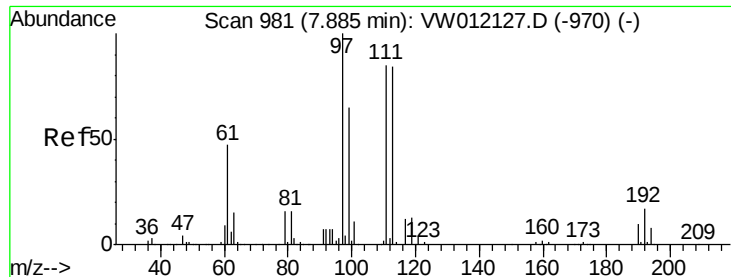
Tgt Ion: 65 Resp: 120025
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012359.D
 Acq: 30 Aug 2019 19:09

Tgt Ion: 114 Resp: 290784
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 48.6
 88 17.5 0.0 32.2





#35

Dibromofluoromethane

Concen: 55.211 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :
MSVOA_W
ClientSampled :
S-2-(1-3)

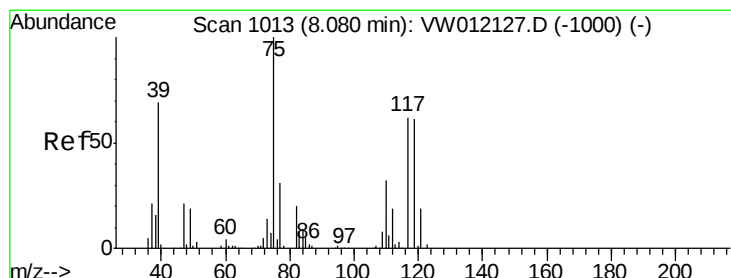
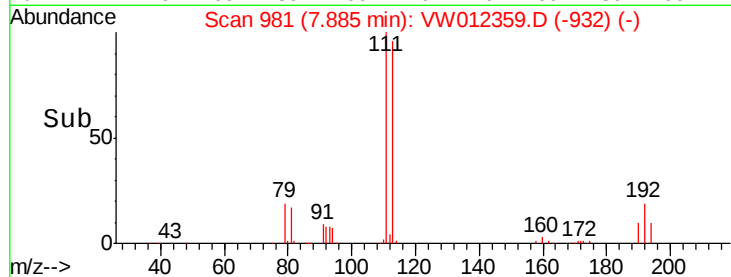
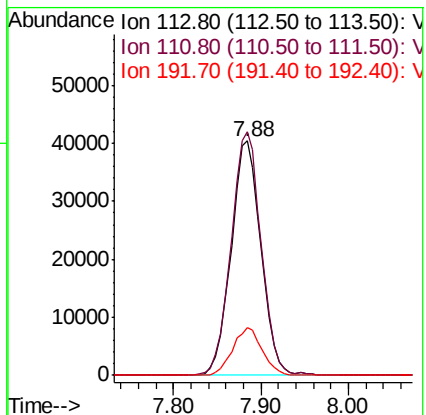
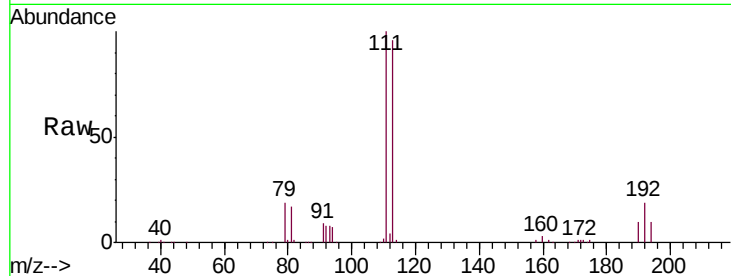
Tgt Ion:113 Resp: 95829

Ion Ratio Lower Upper

113 100

111 104.2 82.7 124.1

192 20.0 16.2 24.2



#36

1,1-Dichloropropene

Concen: 5.233 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

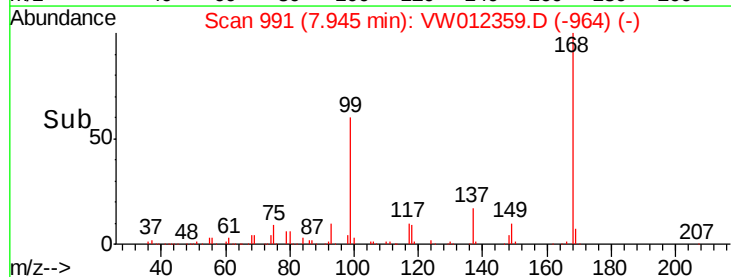
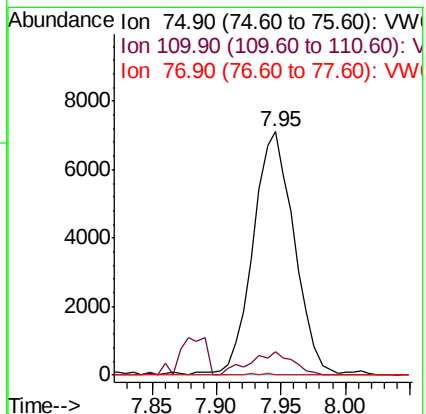
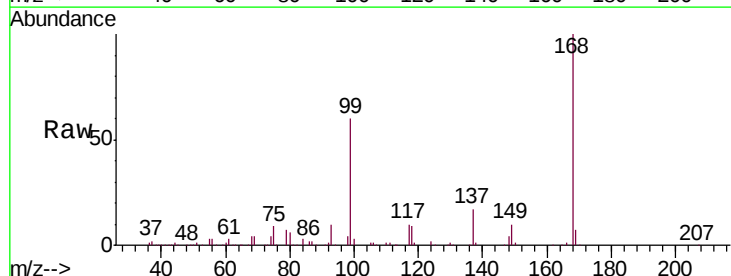
Tgt Ion: 75 Resp: 15725

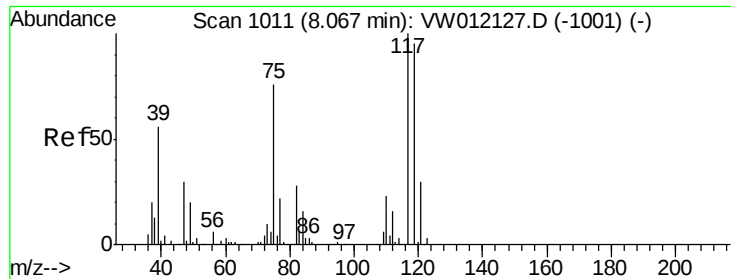
Ion Ratio Lower Upper

75 100

110 10.1 15.6 46.8#

77 0.3 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 7.077 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA_W

ClientSampleId :

S-2-(1-3)

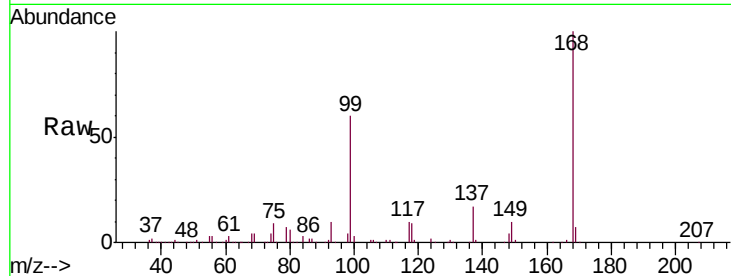
Tgt Ion:117 Resp: 18405

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.2#

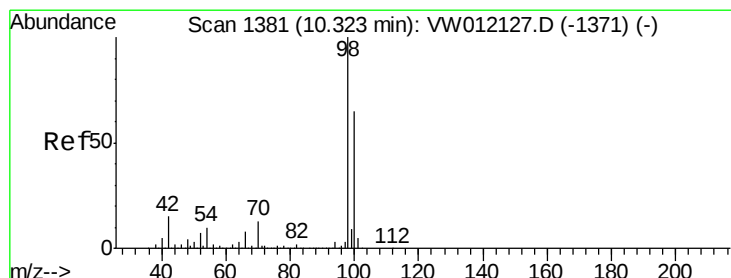
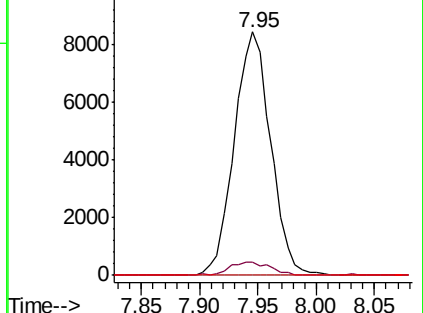
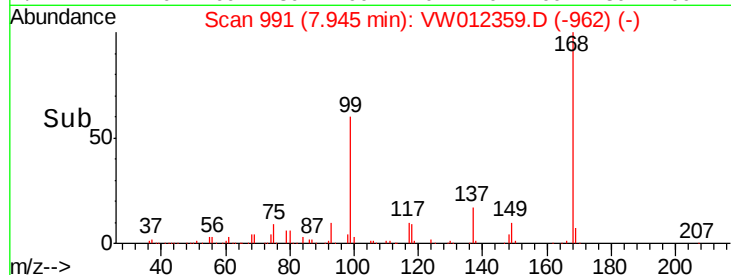
121 0.0 23.8 35.8#



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: 46.904 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012359.D

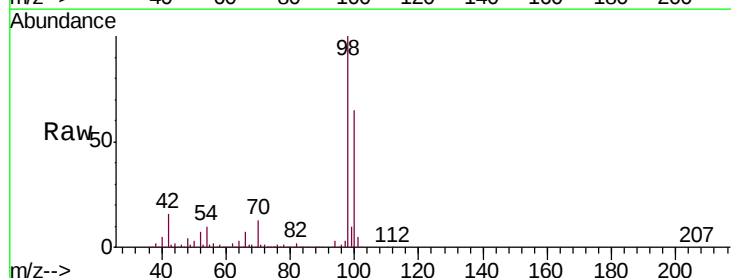
Acq: 30 Aug 2019 19:09

Tgt Ion: 98 Resp: 330098

Ion Ratio Lower Upper

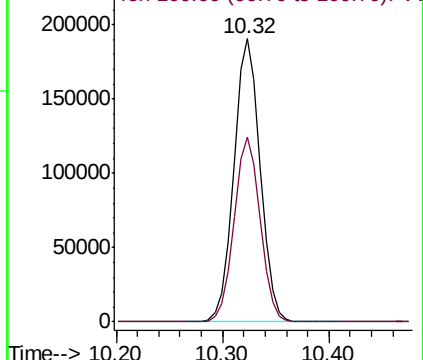
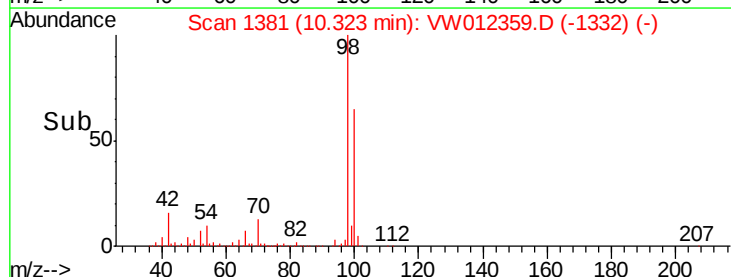
98 100

100 64.9 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 23.773 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA_W

ClientSampleId :

S-2-(1-3)

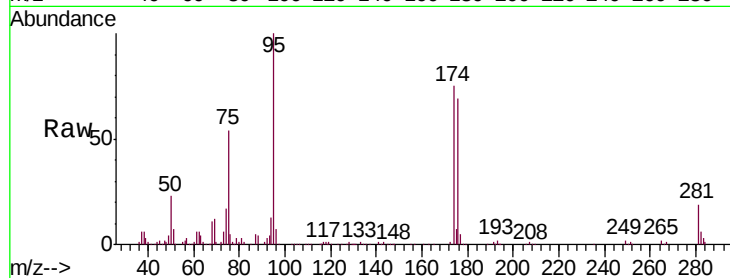
Tgt Ion: 95 Resp: 58975

Ion Ratio Lower Upper

95 100

174 77.4 0.0 150.8

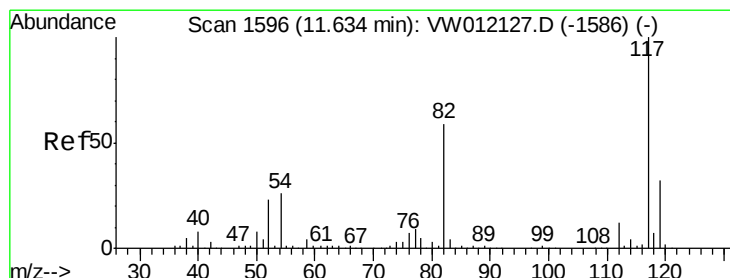
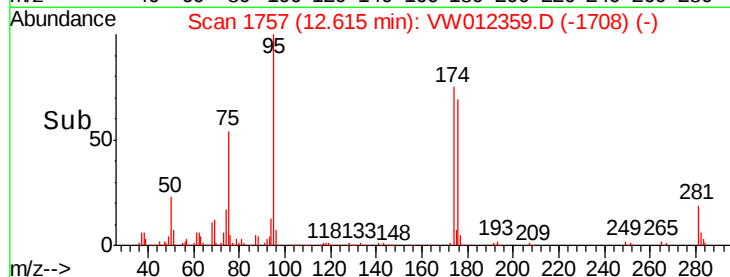
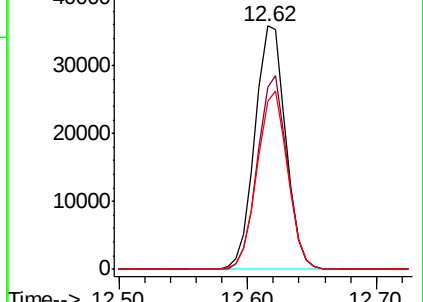
176 72.9 0.0 148.6



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: VW012359.D

Acq: 30 Aug 2019 19:09

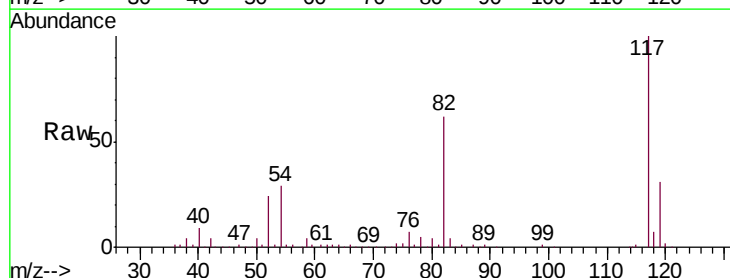
Tgt Ion: 117 Resp: 176206

Ion Ratio Lower Upper

117 100

82 61.6 47.4 71.2

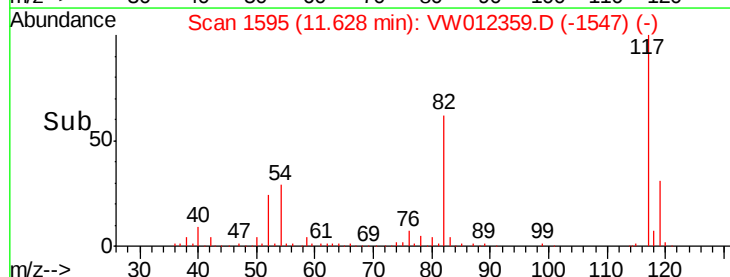
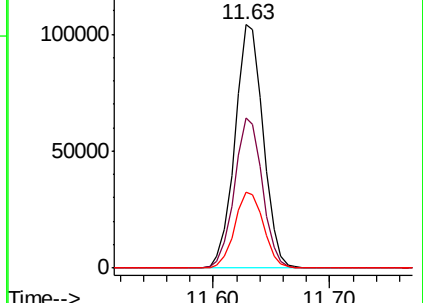
119 31.2 25.4 38.2

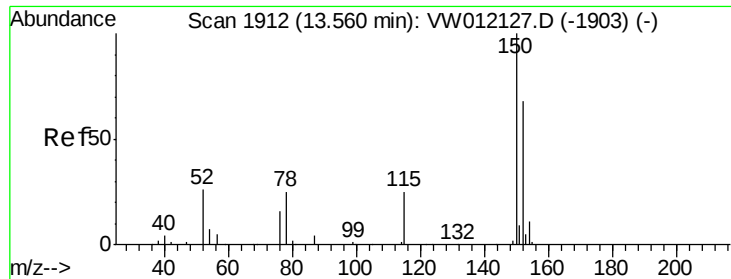


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012359.D

Acq: 30 Aug 2019 19:09

Instrument :

MSVOA_W

ClientSampleId :

S-2-(1-3)

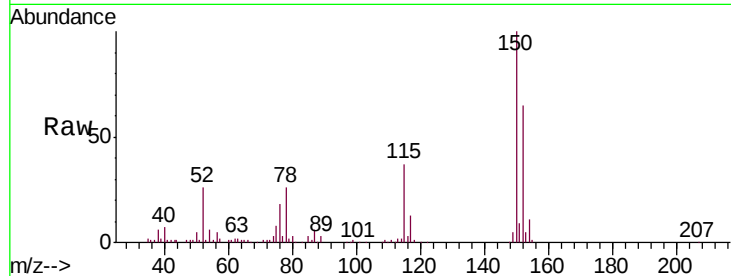
Tgt Ion:152 Resp: 36340

Ion Ratio Lower Upper

152 100

115 59.1 30.1 90.3

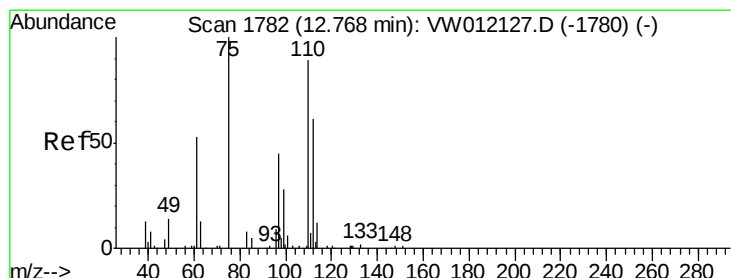
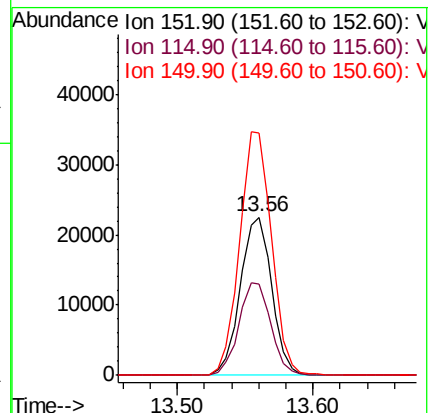
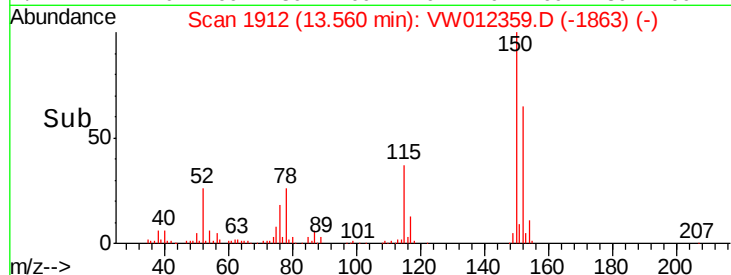
150 156.0 0.0 345.8



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: 89.327 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012359.D

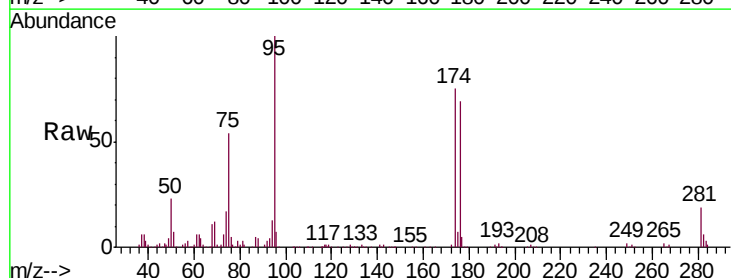
Acq: 30 Aug 2019 19:09

Tgt Ion: 75 Resp: 31615

Ion Ratio Lower Upper

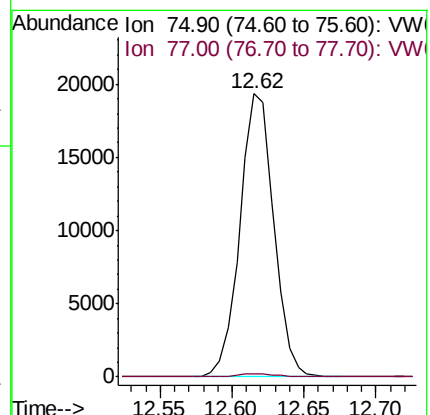
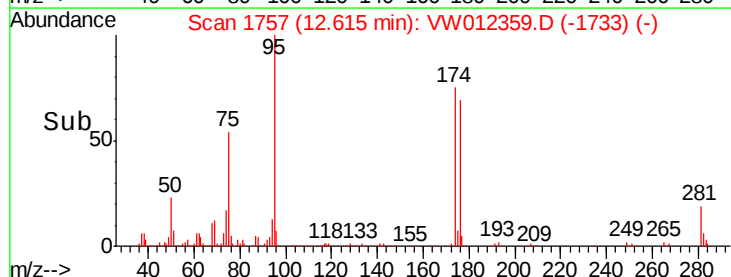
75 100

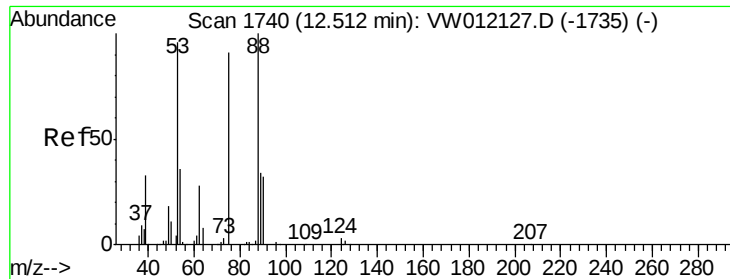
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

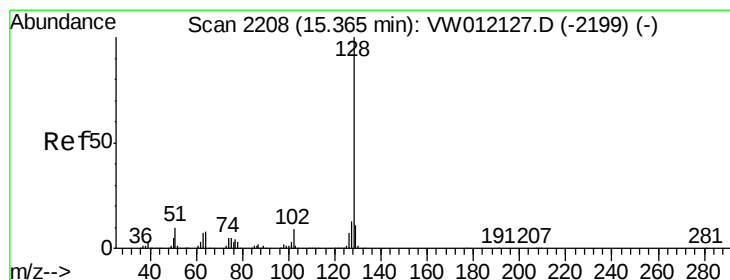
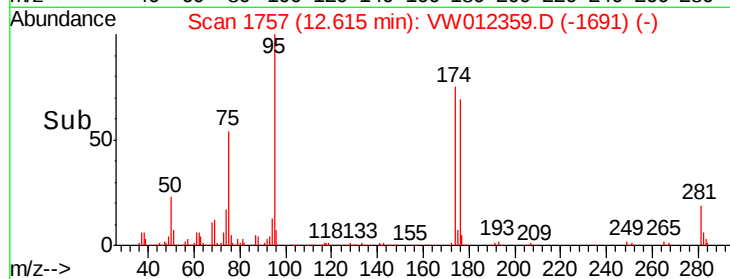
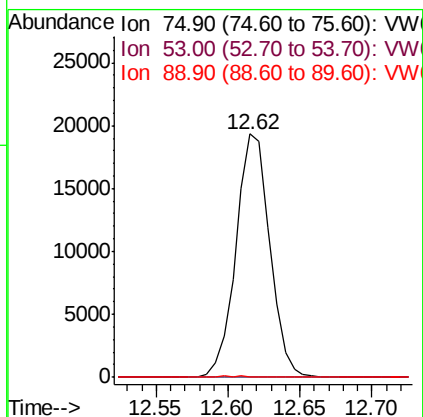
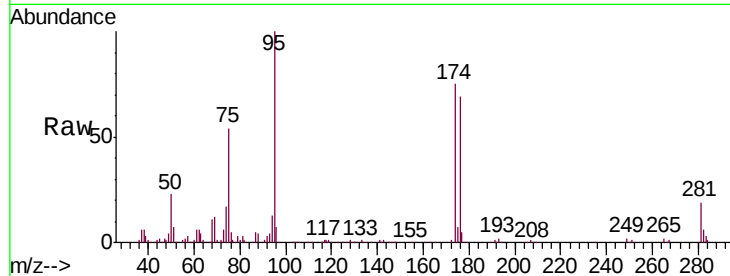




#81
trans-1,4-Dichloro-2-butene
Concen: 195.852 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW012359.D
Acq: 30 Aug 2019 19:09

Instrument :
MSVOA_W
ClientSampled :
S-2-(1-3)

Tgt Ion: 75 Resp: 31615
Ion Ratio Lower Upper
75 100
53 0.1 89.4 134.0#
89 0.4 34.5 51.7#



#95
Naphthalene
Concen: 4.663 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW012359.D
Acq: 30 Aug 2019 19:09

Tgt Ion: 128 Resp: 513
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 5.5 8.7 13.1#

