

Data File : VW012374.D
Acq On : 31 Aug 2019 02:55
Operator : SY/VA
Sample : K4439-09
Misc : 6.58G/5ML/MSVOA_W/SOIL
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Quant Time: Aug 31 04:52:20 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	217983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	364151	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	290470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	111774	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	141301	54.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.06%	
35) Dibromofluoromethane	7.88	113	110310	50.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.50%	
50) Toluene-d8	10.32	98	440203	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	
62) 4-Bromofluorobenzene	12.62	95	131571	42.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.70%	

Target Compounds

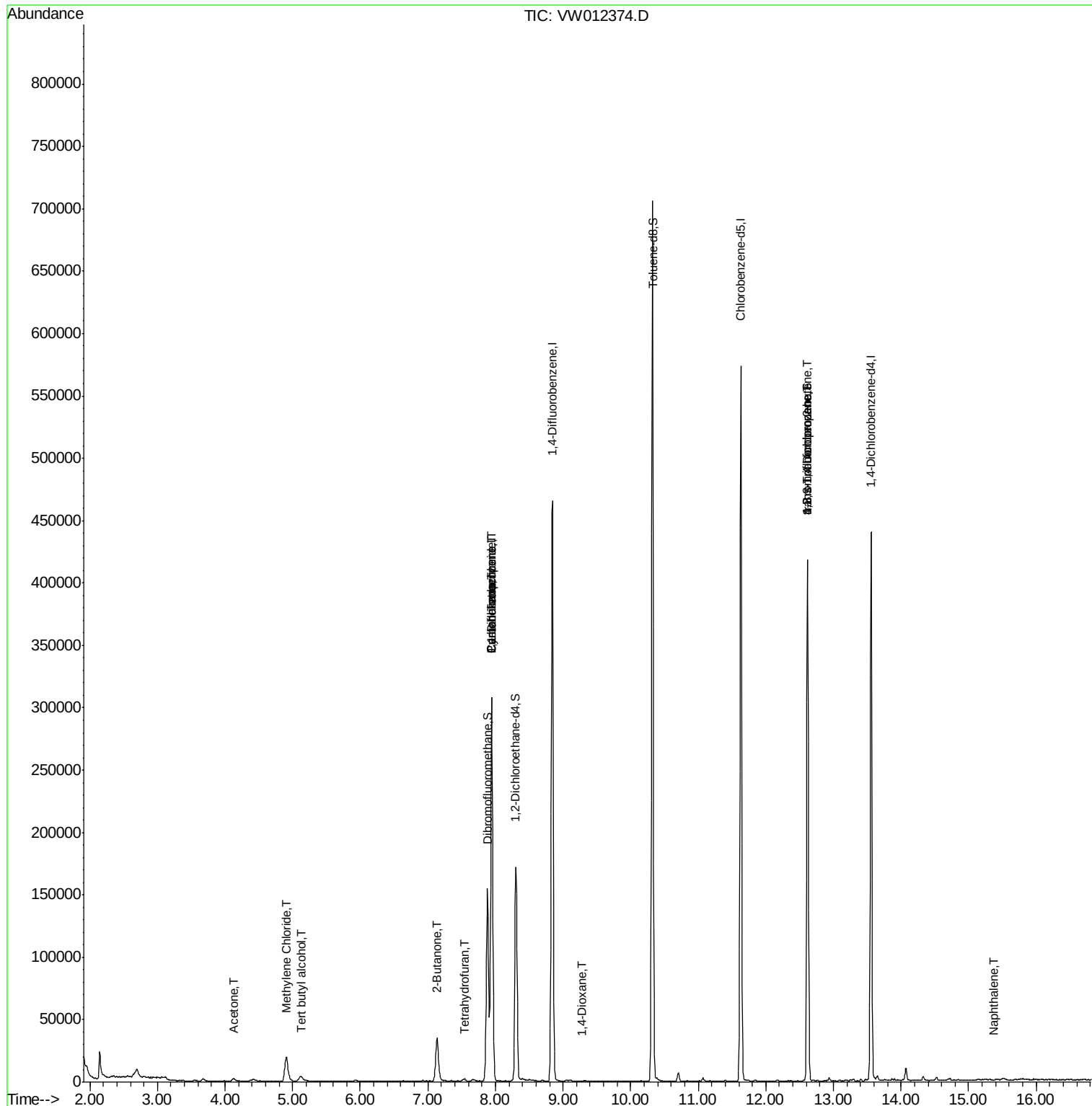
						Qvalue
11) Tert butyl alcohol	5.12	59	5032	32.268	ug/l #	71
16) Acetone	4.13	43	4590	6.929	ug/l	95
20) Methylene Chloride	4.91	84	13986	5.585	ug/l	97
25) 2-Butanone	7.13	43	2710	3.011	ug/l #	77
29) Tetrahydrofuran	7.54	42	1237	2.291	ug/l #	78
31) Cyclohexane	7.95	56	5567	1.193	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	19643	5.220	ug/l #	51
38) Carbon Tetrachloride	7.94	117	22501	6.908	ug/l #	16
49) 1,4-Dioxane	9.28	88	22	1.168	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	72293	66.409	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	72293	145.605	ug/l #	6
95) Naphthalene	15.36	128	294	4.385	ug/l #	69

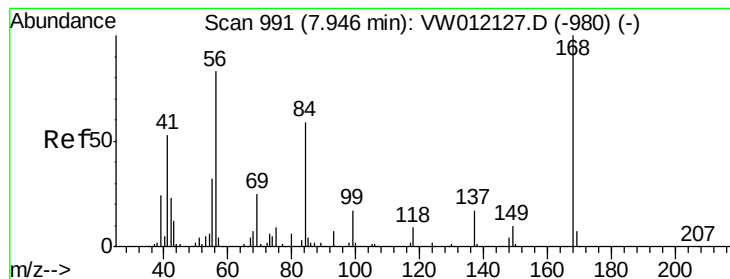
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampleId :

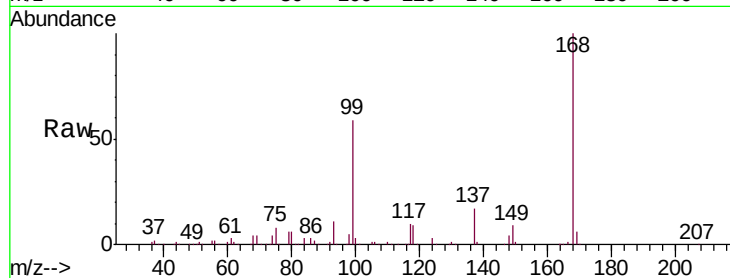
BFB

Tgt Ion:168 Resp: 217983

Ion Ratio Lower Upper

168 100

99 58.9 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

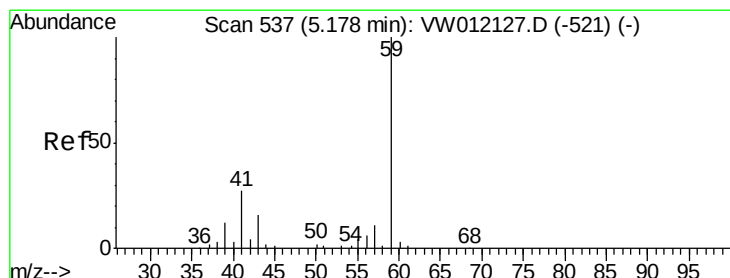
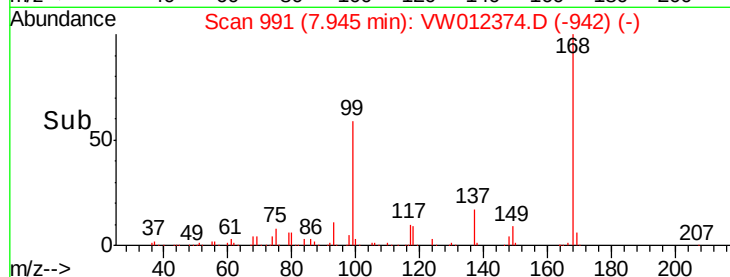
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 32.268 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.05 min

Lab File: VW012374.D

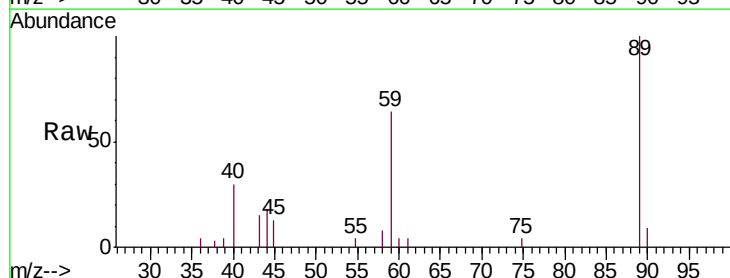
Acq: 31 Aug 2019 02:55

Tgt Ion: 59 Resp: 5032

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

1000

800

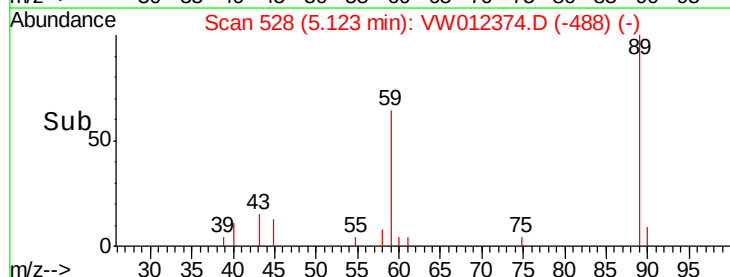
600

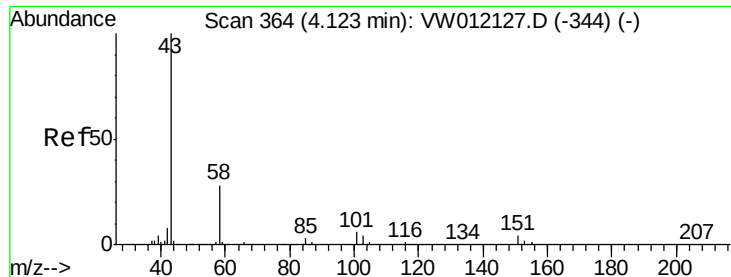
400

200

0

Time--> 5.00 5.10 5.20 5.30

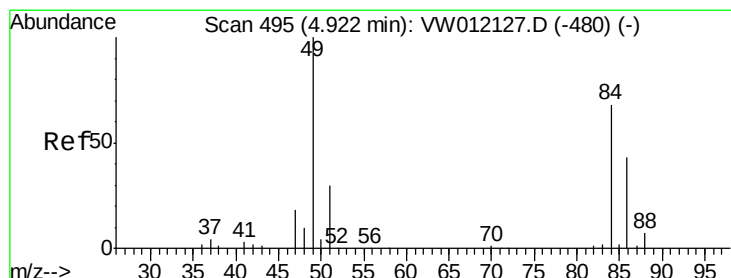
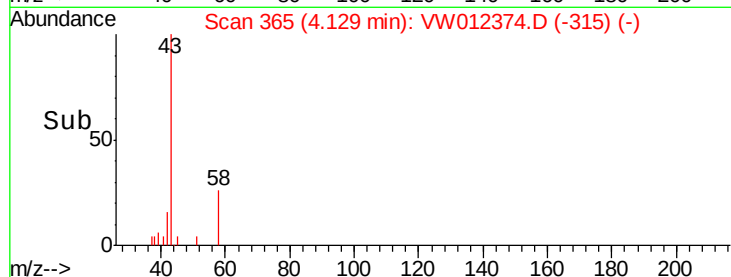
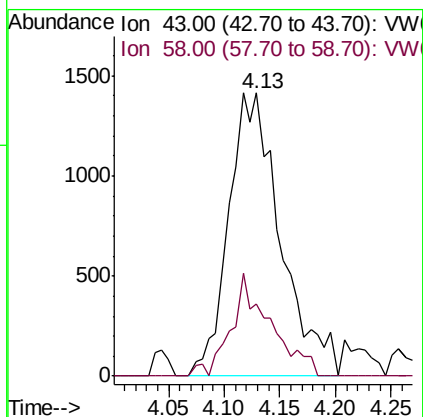
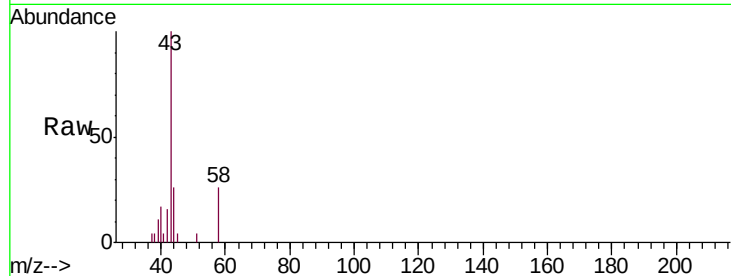




#16
Acetone
Concen: 6.929 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012374.D
Acq: 31 Aug 2019 02:55

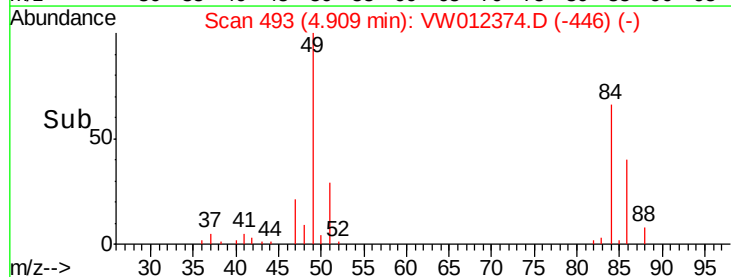
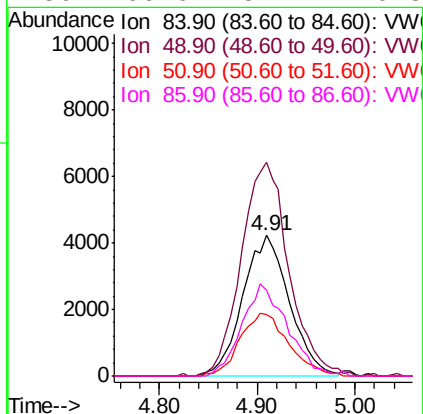
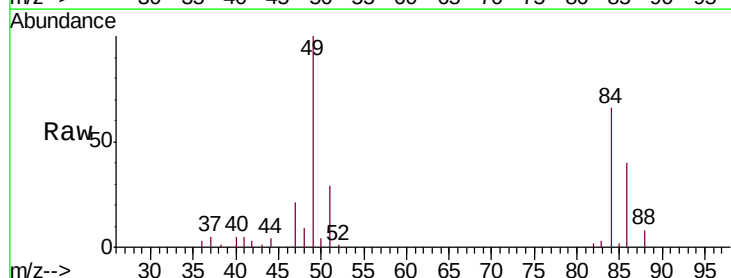
Instrument :
MSVOA_W
ClientSampleId :
BFB

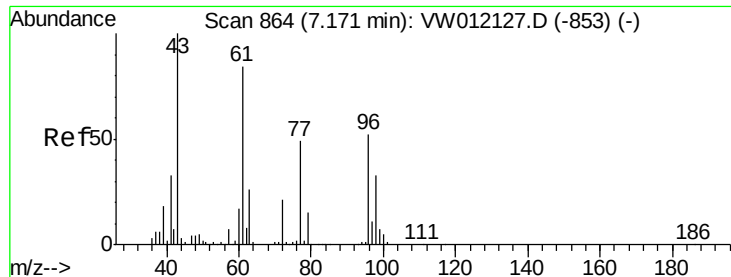
Tgt Ion: 43 Resp: 4590
Ion Ratio Lower Upper
43 100
58 25.5 22.4 33.6



#20
Methylene Chloride
Concen: 5.585 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012374.D
Acq: 31 Aug 2019 02:55

Tgt Ion: 84 Resp: 13986
Ion Ratio Lower Upper
84 100
49 151.8 117.8 176.8
51 44.0 35.6 53.4
86 60.6 51.2 76.8





#25

2-Butanone

Concen: 3.011 ug/l

RT: 7.13 min Scan# 857

Delta R.T. -0.04 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampleId :

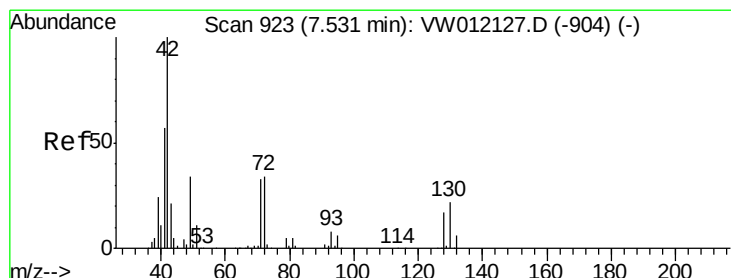
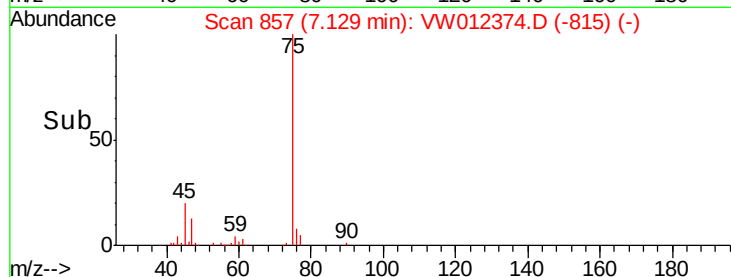
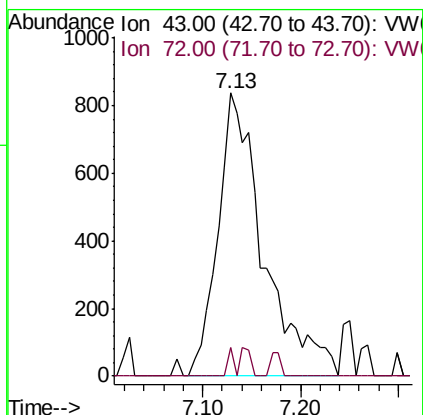
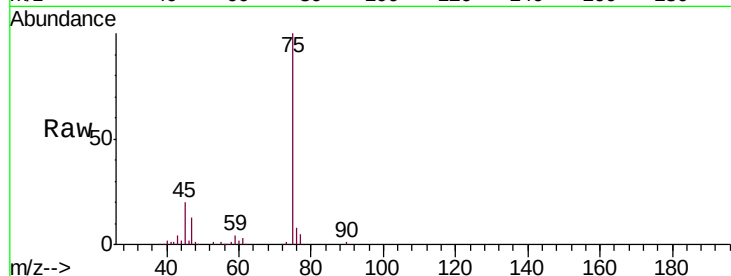
BFB

Tgt Ion: 43 Resp: 2710

Ion Ratio Lower Upper

43 100

72 10.2 16.6 24.8#



#29

Tetrahydrofuran

Concen: 2.291 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

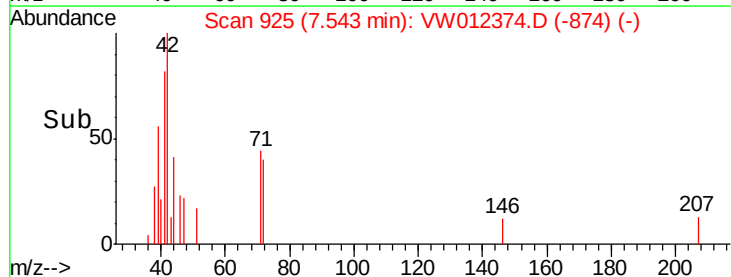
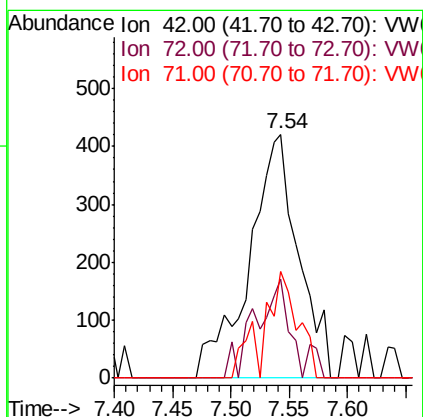
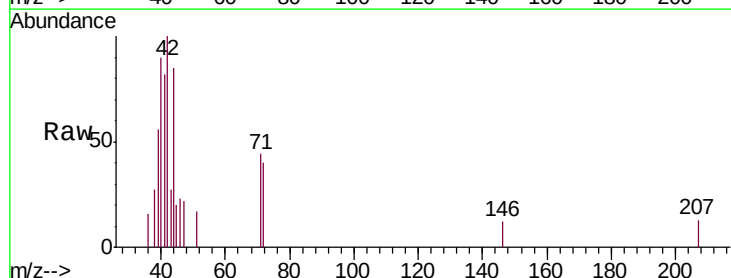
Tgt Ion: 42 Resp: 1237

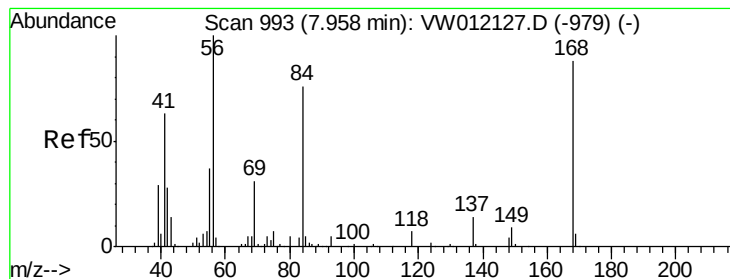
Ion Ratio Lower Upper

42 100

72 16.7 27.3 40.9#

71 24.2 25.5 38.3#





#31

Cyclohexane

Concen: 1.193 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampled :

BFB

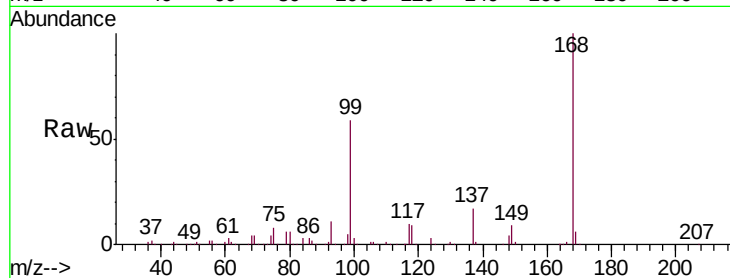
Tgt Ion: 56 Resp: 5567

Ion Ratio Lower Upper

56 100

69 177.0 24.9 37.3#

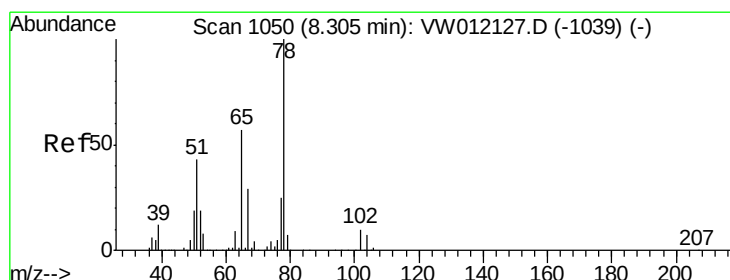
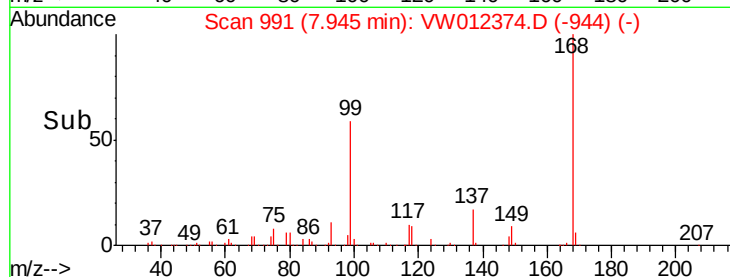
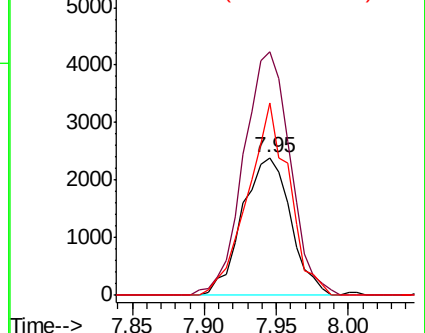
84 139.9 60.6 90.8#



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: 54.529 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012374.D

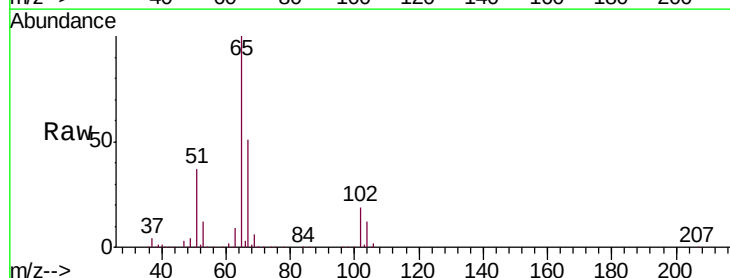
Acq: 31 Aug 2019 02:55

Tgt Ion: 65 Resp: 141301

Ion Ratio Lower Upper

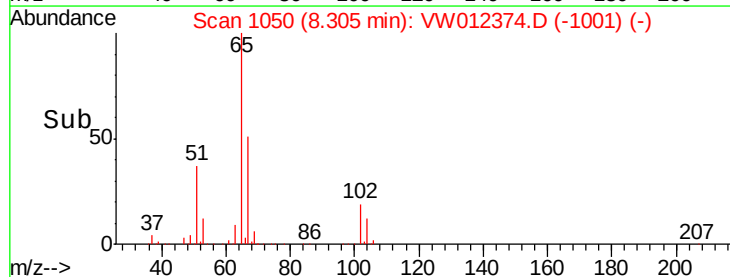
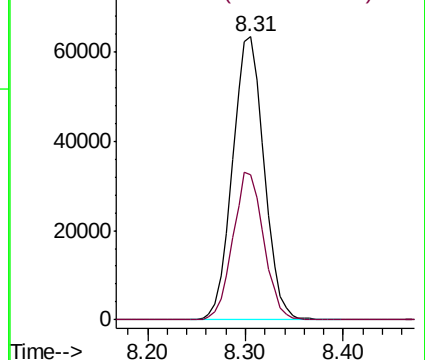
65 100

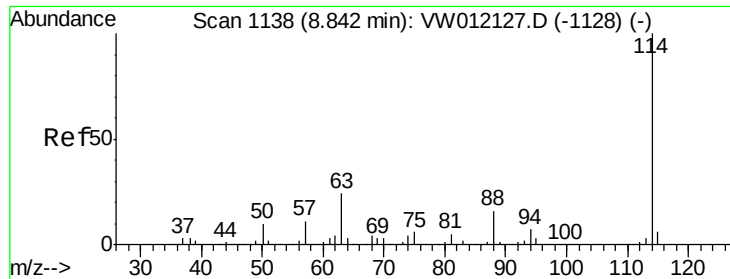
67 51.1 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

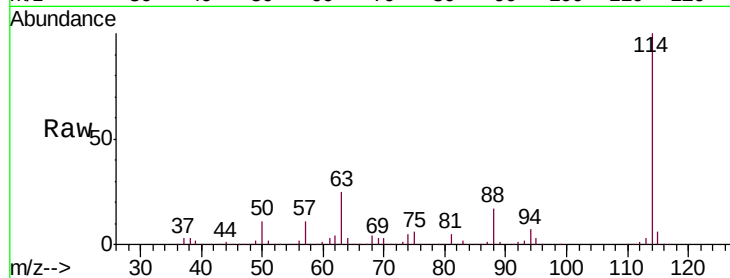




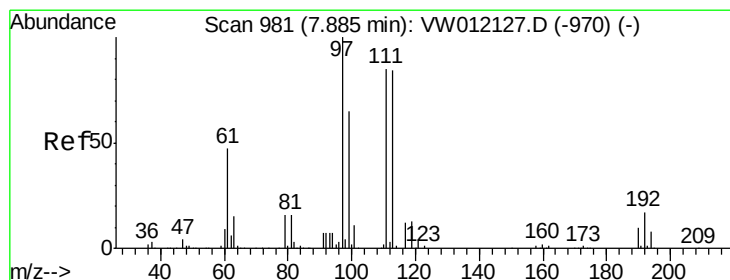
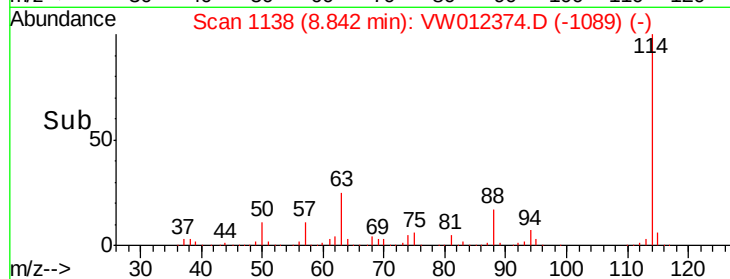
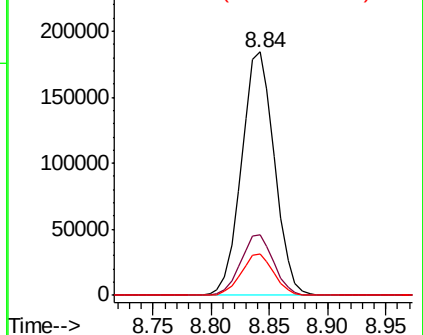
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012374.D
 Acq: 31 Aug 2019 02:55

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB

Tgt Ion:	114	Resp:	364151
Ion	Ratio	Lower	Upper
114	100		
63	24.8	0.0	48.6
88	16.8	0.0	32.2

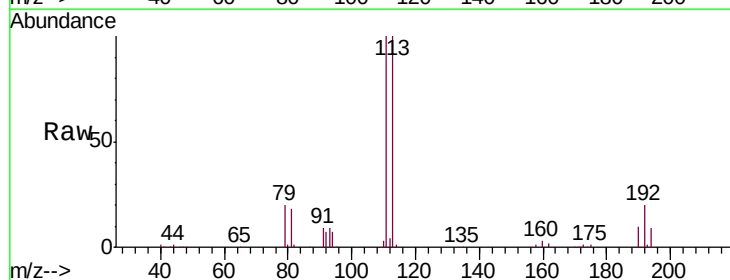


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

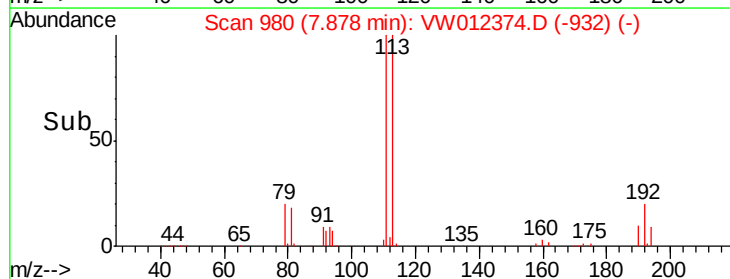
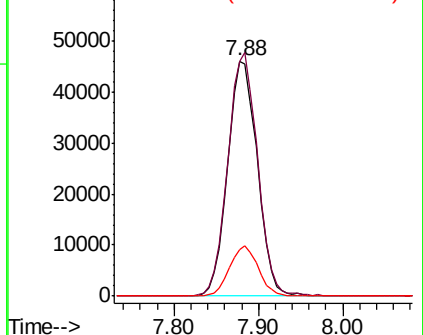


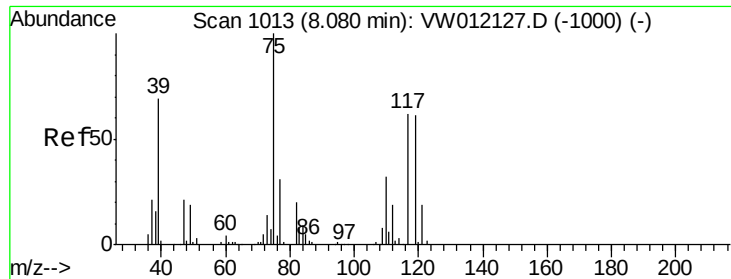
#35
 Dibromofluoromethane
 Concen: 50.749 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012374.D
 Acq: 31 Aug 2019 02:55

Tgt Ion:	113	Resp:	110310
Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.7	124.1
192	20.4	16.2	24.2



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: 5.220 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampleId :

BFB

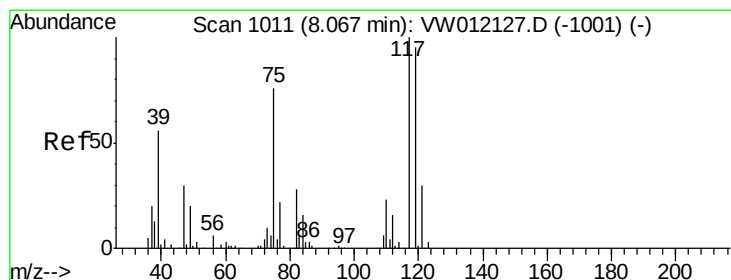
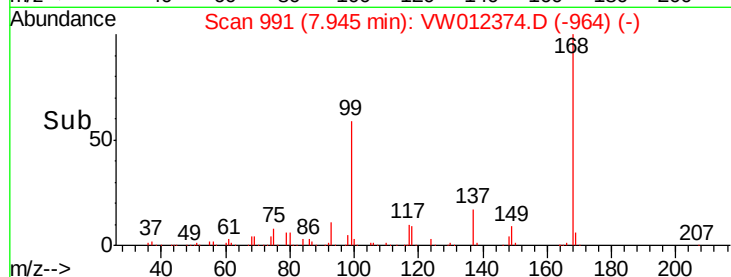
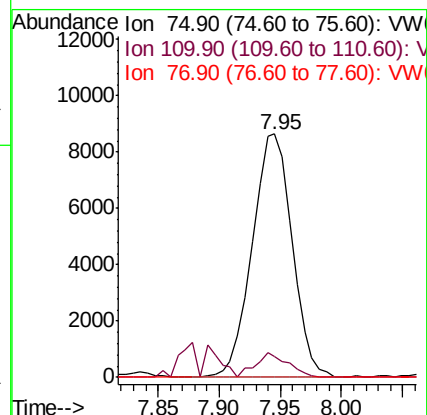
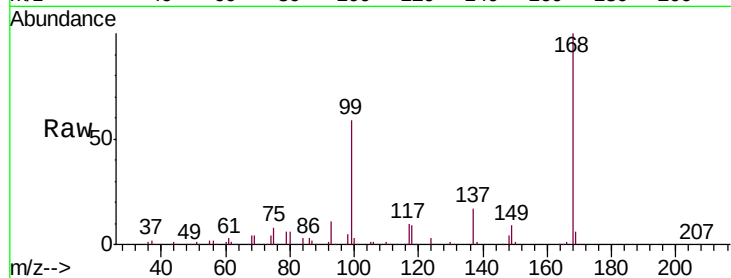
Tgt Ion: 75 Resp: 19643

Ion Ratio Lower Upper

75 100

110 8.3 15.6 46.8#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.908 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

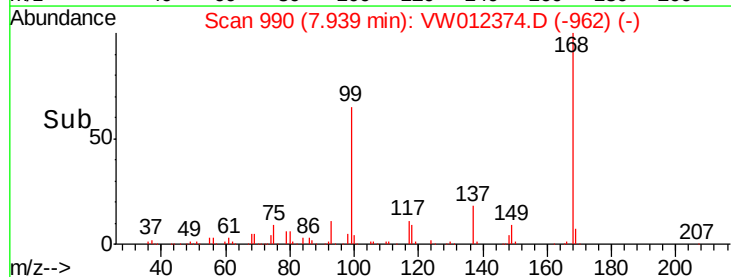
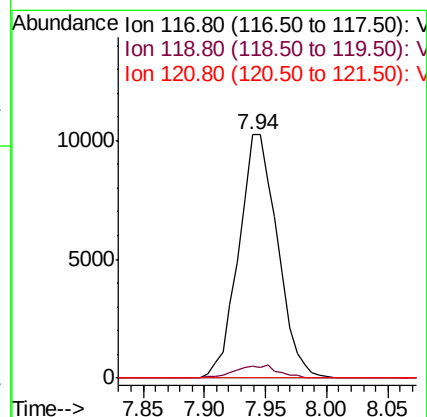
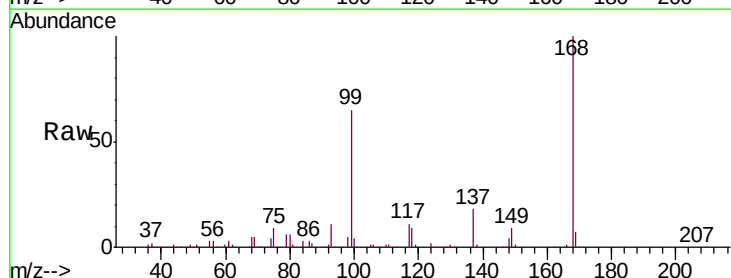
Tgt Ion: 117 Resp: 22501

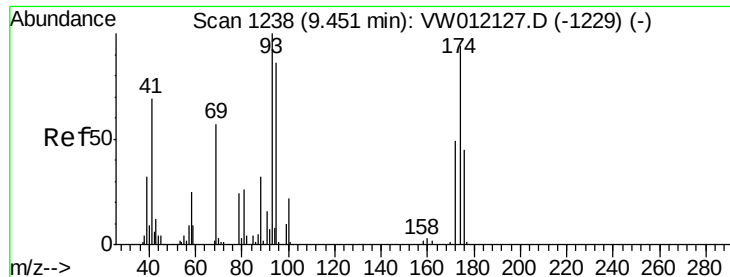
Ion Ratio Lower Upper

117 100

119 4.8 76.2 114.2#

121 0.0 23.8 35.8#





#49

1,4-Dioxane

Concen: 1.168 ug/l

RT: 9.28 min Scan# 1210

Delta R.T. -0.17 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampleId :

BFB

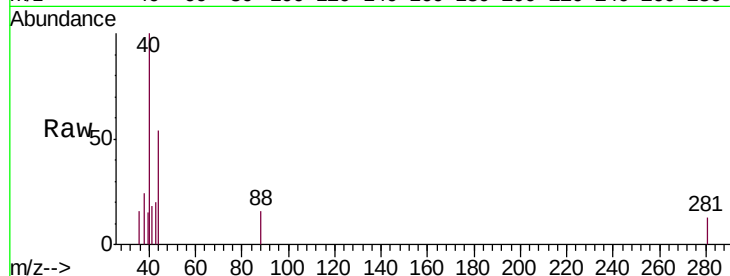
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 940.9 32.9 49.3#

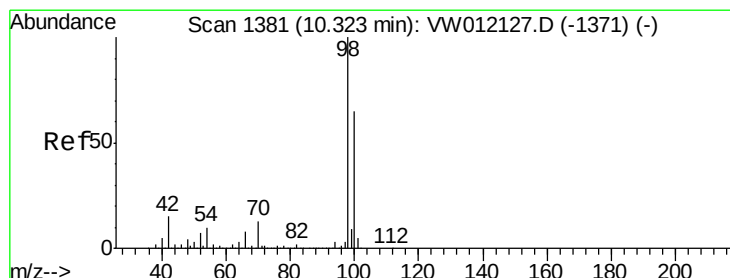
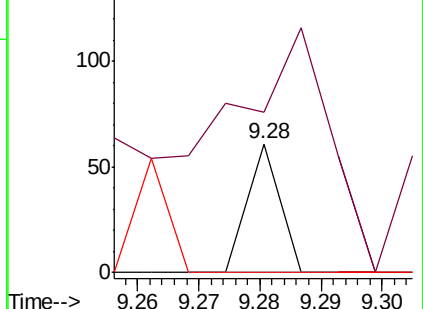
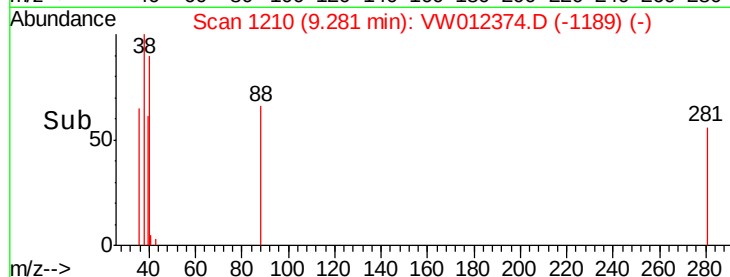
58 0.0 71.0 106.4#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 49.947 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012374.D

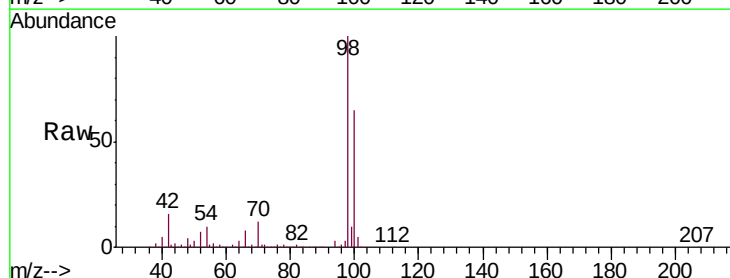
Acq: 31 Aug 2019 02:55

Tgt Ion: 98 Resp: 440203

Ion Ratio Lower Upper

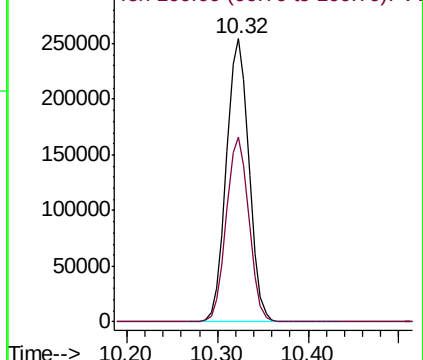
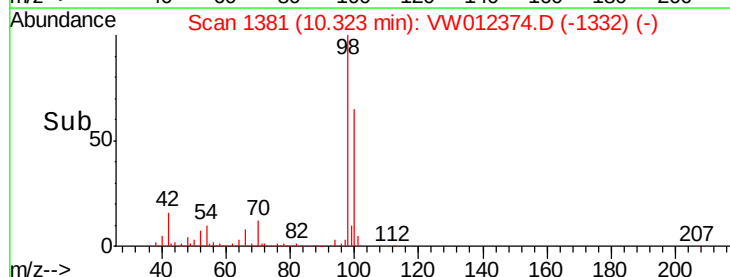
98 100

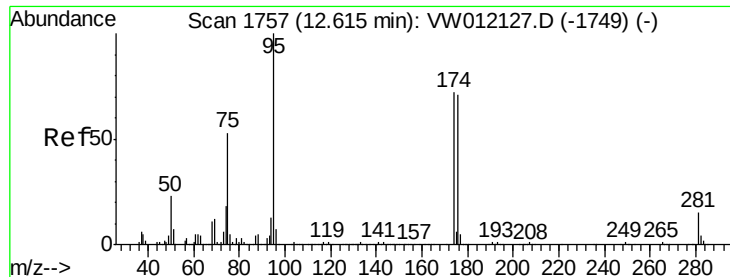
100 65.1 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 42.350 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampled :

BFB

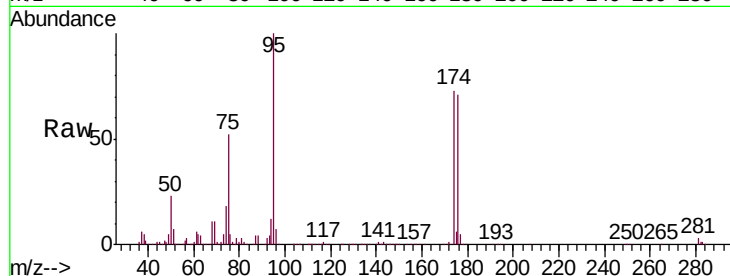
Tgt Ion: 95 Resp: 131571

Ion Ratio Lower Upper

95 100

174 77.2 0.0 150.8

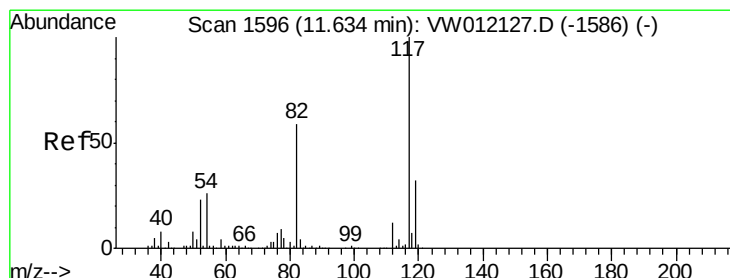
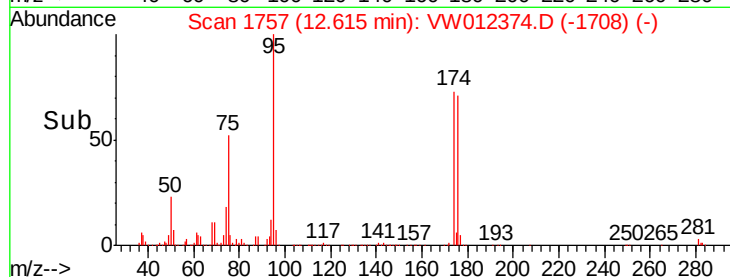
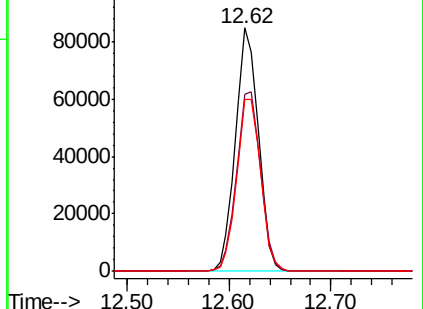
176 74.1 0.0 148.6



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: VW012374.D

Acq: 31 Aug 2019 02:55

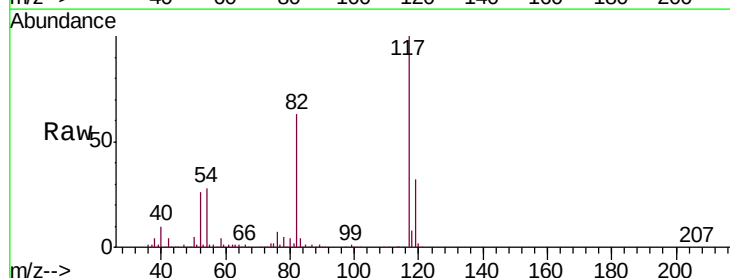
Tgt Ion: 117 Resp: 290470

Ion Ratio Lower Upper

117 100

82 62.8 47.4 71.2

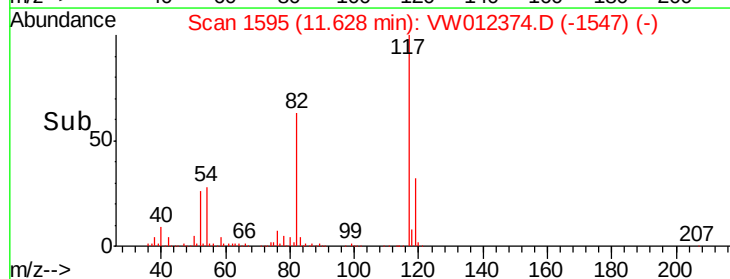
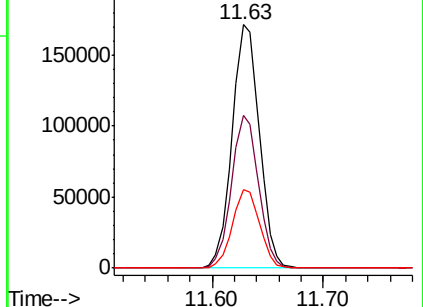
119 32.5 25.4 38.2

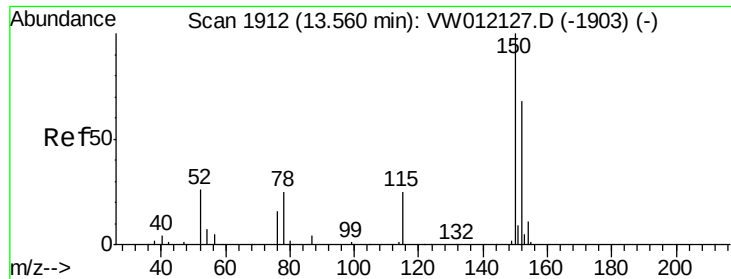


Abundance Ion 116.90 (116.60 to 117.60): VW

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: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampled :

BFB

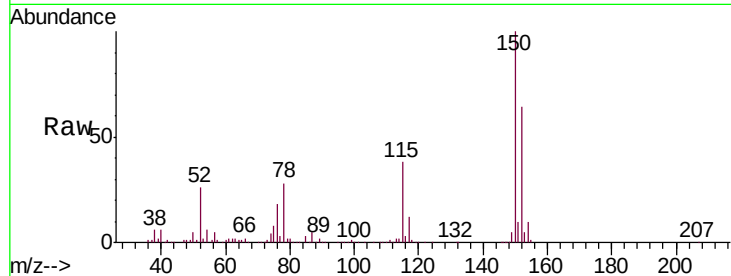
Tgt Ion:152 Resp: 111774

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.3

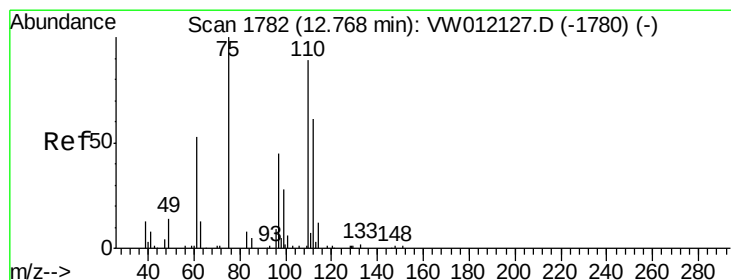
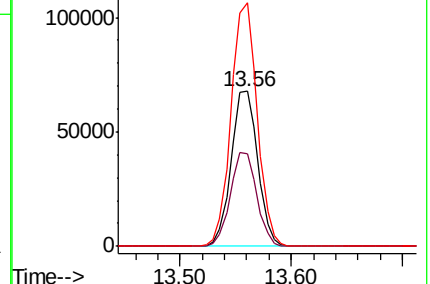
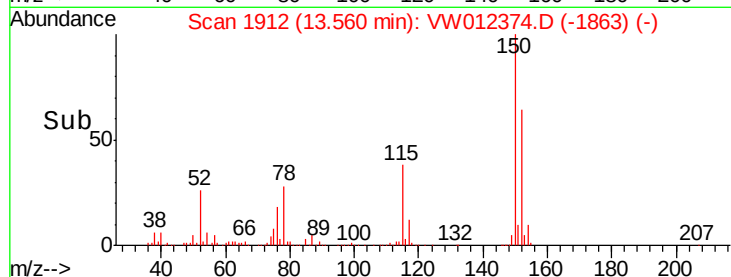
150 154.2 0.0 345.8



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: 66.409 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012374.D

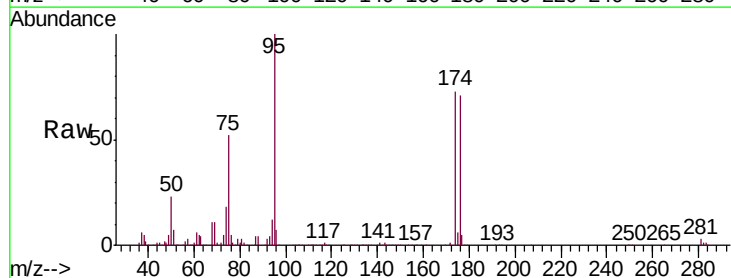
Acq: 31 Aug 2019 02:55

Tgt Ion: 75 Resp: 72293

Ion Ratio Lower Upper

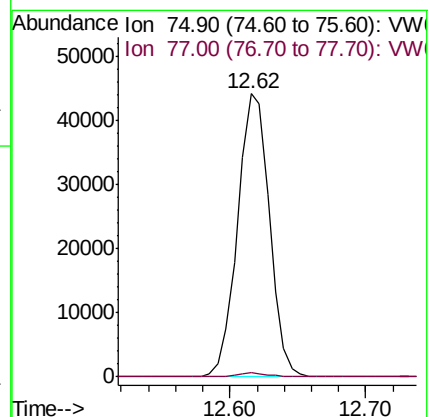
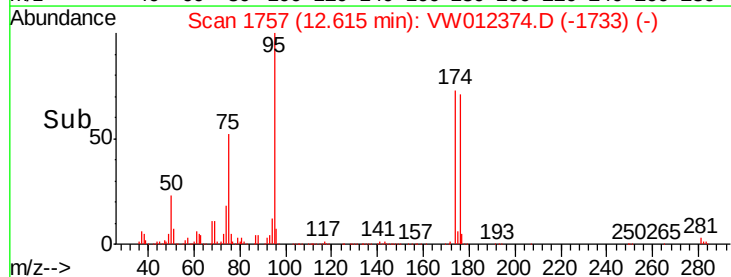
75 100

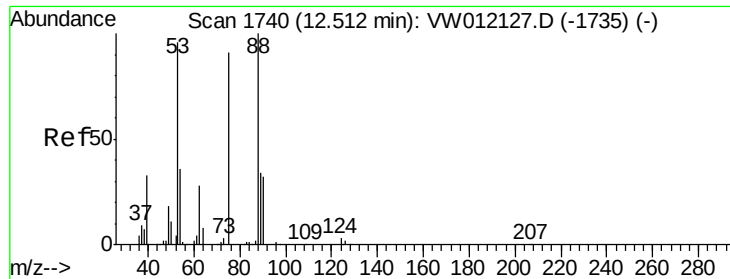
77 1.4 0.0 0.0#



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: 145.605 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

Instrument :

MSVOA_W

ClientSampleId :

BFB

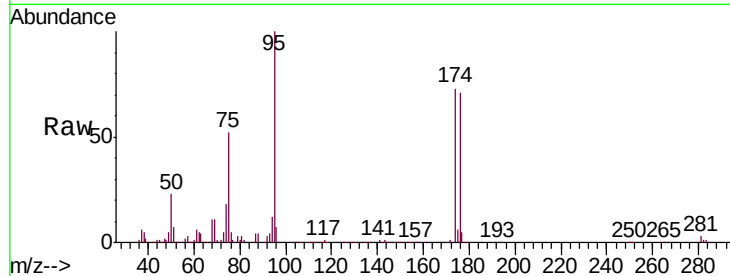
Tgt Ion: 75 Resp: 72293

Ion Ratio Lower Upper

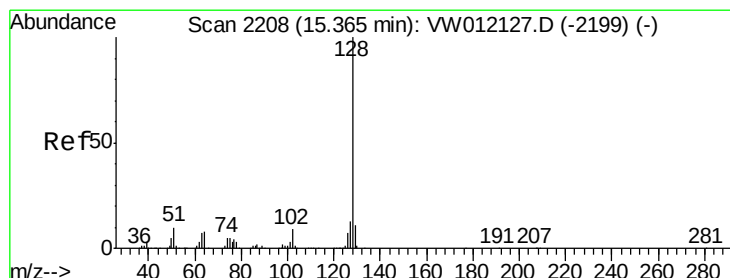
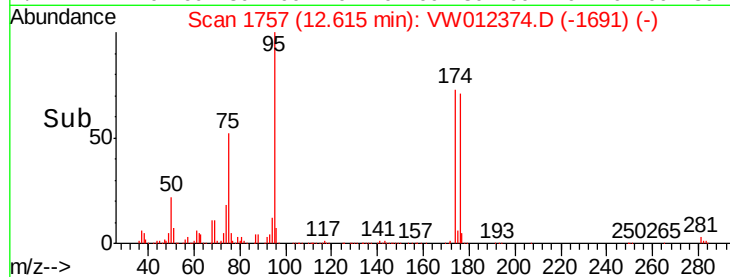
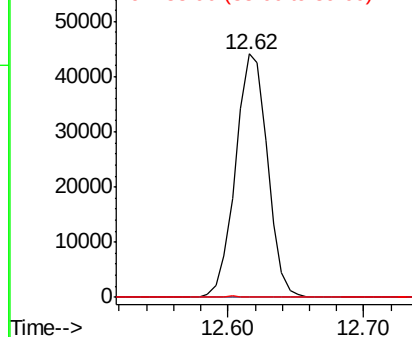
75 100

53 0.1 89.4 134.0#

89 0.1 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 4.385 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012374.D

Acq: 31 Aug 2019 02:55

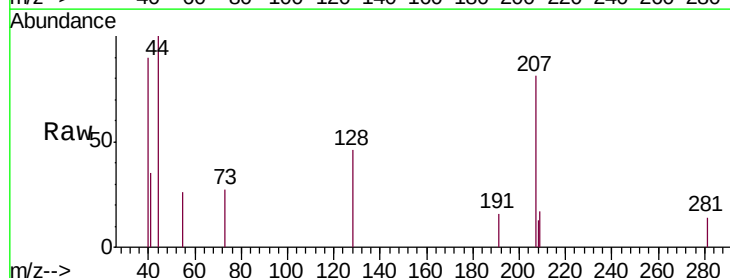
Tgt Ion: 128 Resp: 294

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 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

