

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW022219\
 Data File : VW008794.D
 Acq On : 22 Feb 2019 17:25
 Operator : SY/VA
 Sample : K1586-03
 Misc : 5.87G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 23 03:26:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	357445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	547078	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	482999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	231671	50.00	ug/l	0.00

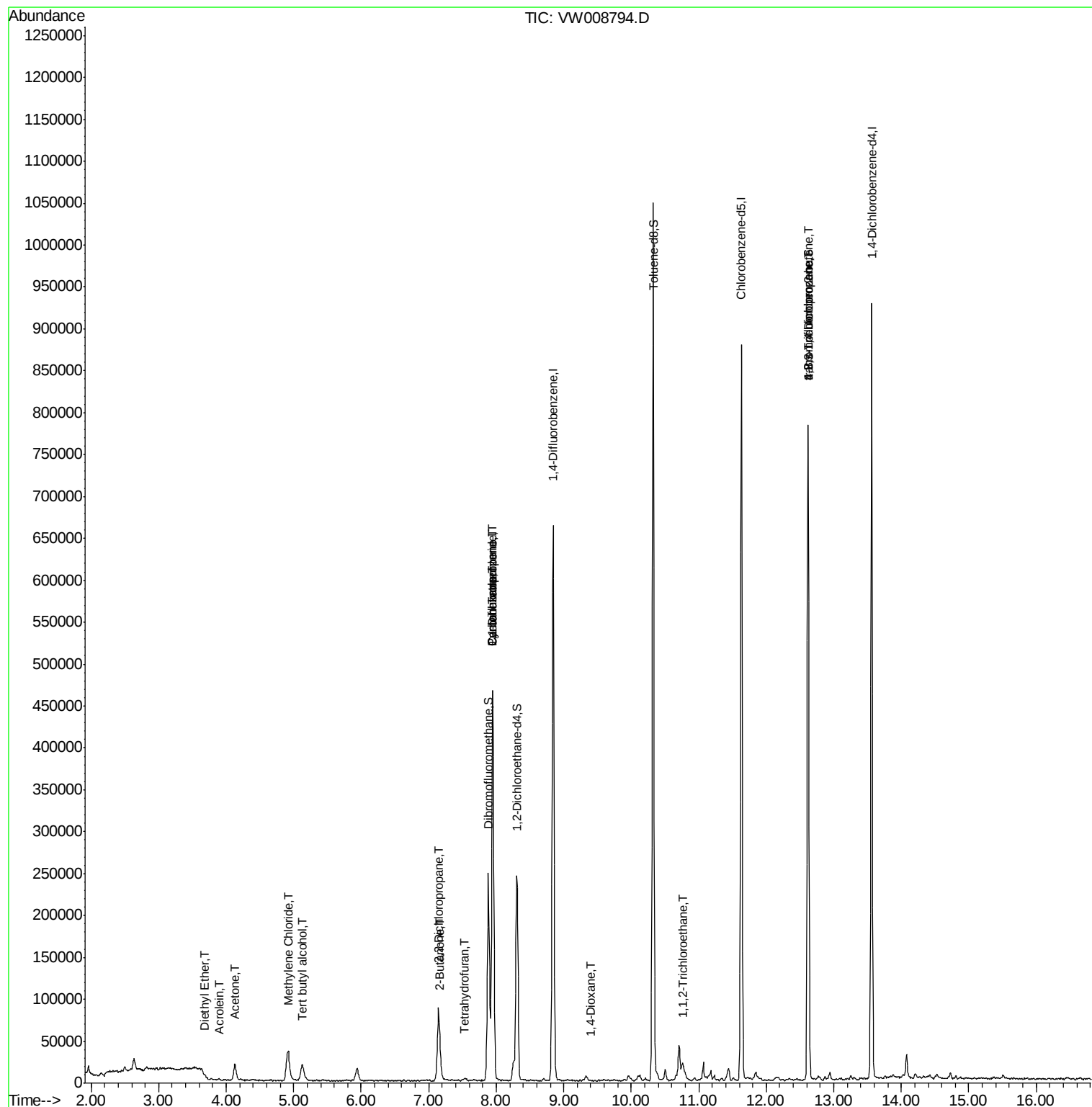
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	189068	56.40	ug/l	0.00
Spiked Amount			Recovery	=	112.80%	
35) Dibromofluoromethane	7.88	113	168843	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
50) Toluene-d8	10.32	98	657174	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.62	95	223770	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

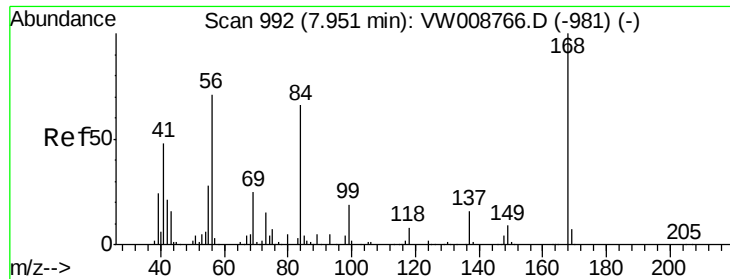
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.69	74	1981	1.072	ug/l	95
11) Tert butyl alcohol	5.12	59	16955	56.808	ug/l #	73
13) Acrolein	3.89	56	536	21.348	ug/l #	67
16) Acetone	4.12	43	33976	43.722	ug/l	100
20) Methylene Chloride	4.92	84	29175	2.798	ug/l #	84
25) 2-Butanone	7.17	43	8652	7.964	ug/l #	86
26) 2,2-Dichloropropane	7.14	77	5991	1.057	ug/l #	54
29) Tetrahydrofuran	7.52	42	1382	1.996	ug/l #	84
31) Cyclohexane	7.95	56	8612	1.363	ug/l #	2
36) 1,1-Dichloropropene	7.95	75	26068	4.895	ug/l #	52
38) Carbon Tetrachloride	7.95	117	34525	6.147	ug/l #	16
49) 1,4-Dioxane	9.40	88	72	2.250	ug/l #	25
55) 1,1,2-Trichloroethane	10.76	97	2983	1.101	ug/l #	24
76) 1,2,3-Trichloropropane	12.62	75	119560	62.507	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	119560	151.959	ug/l #	6

(#) = 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# 992

Delta R.T. 0.00 min

Lab File: VW008794.D

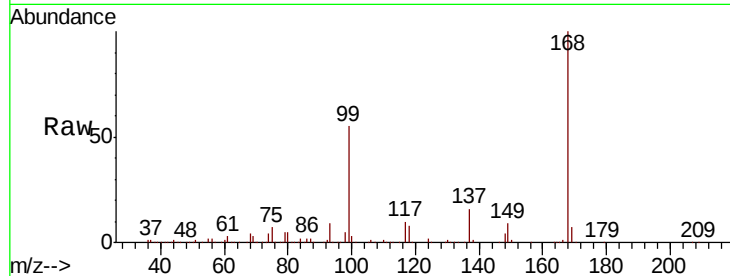
Acq: 22 Feb 2019 17:25

Tgt Ion: 168 Resp: 357445

Ion Ratio Lower Upper

168 100

99 54.9 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): VW008766.D (-981) (-)

Ion 98.90 (98.60 to 99.60): VW008766.D (-981) (-)

7.95

150000

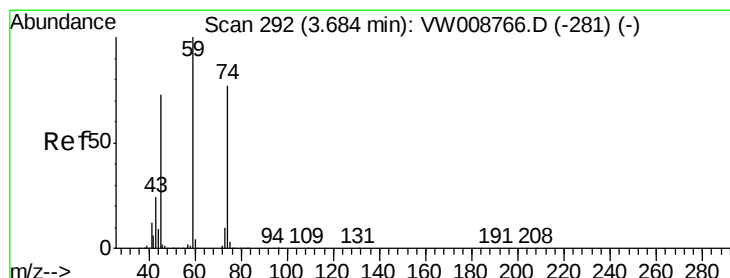
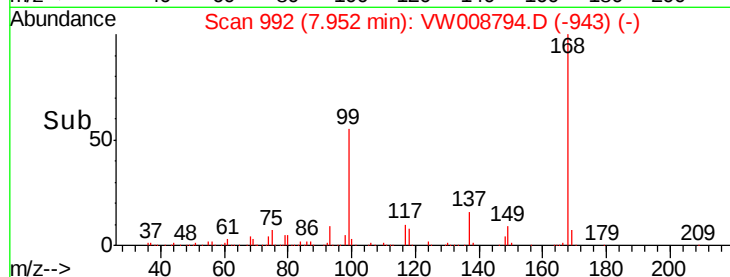
100000

50000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 1.072 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW008794.D

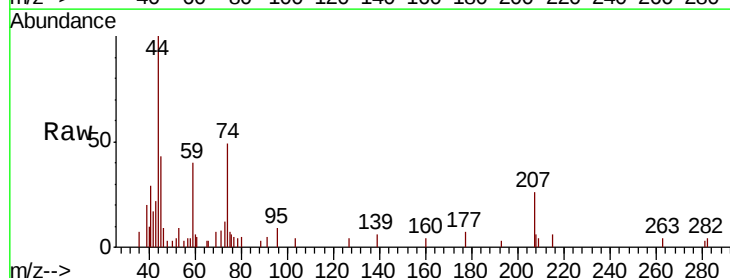
Acq: 22 Feb 2019 17:25

Tgt Ion: 74 Resp: 1981

Ion Ratio Lower Upper

74 100

45 95.2 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW008766.D (-281) (-)

Ion 45.00 (44.70 to 45.70): VW008766.D (-281) (-)

3.69

1000

800

600

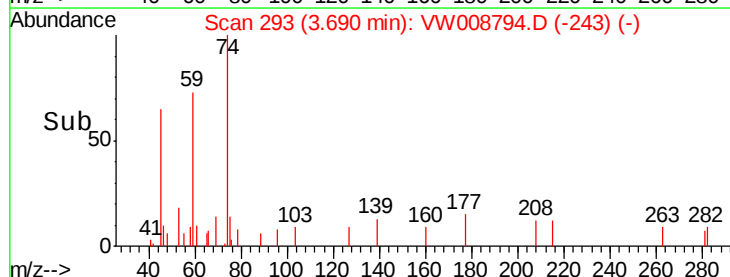
400

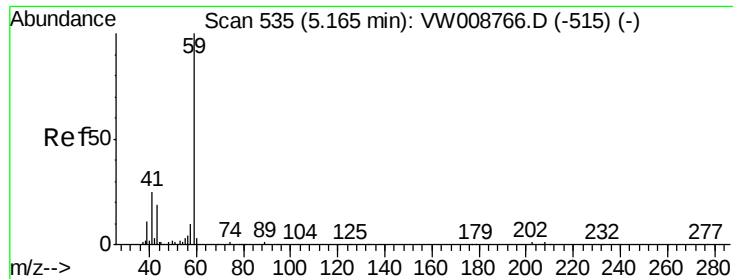
200

0

3.60 3.65 3.70 3.75

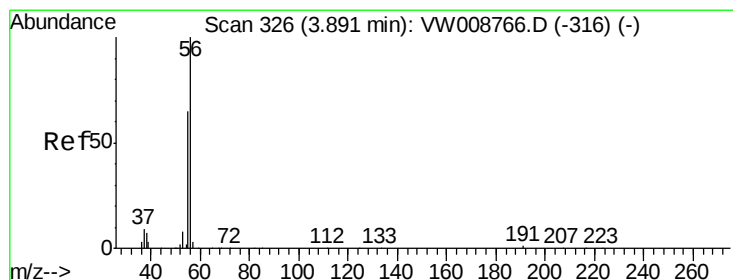
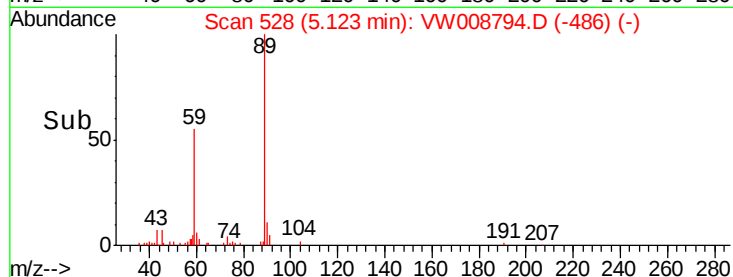
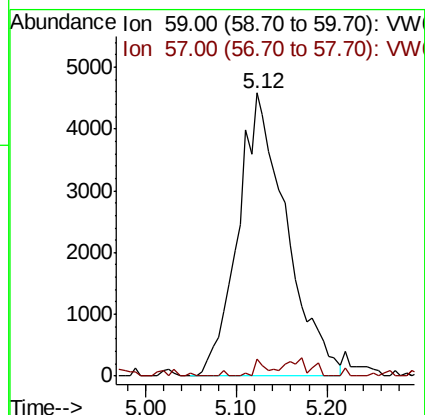
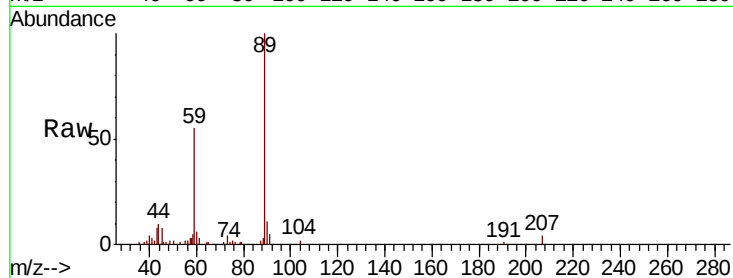
Time-->





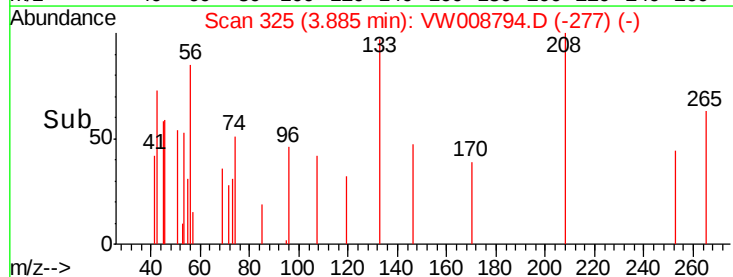
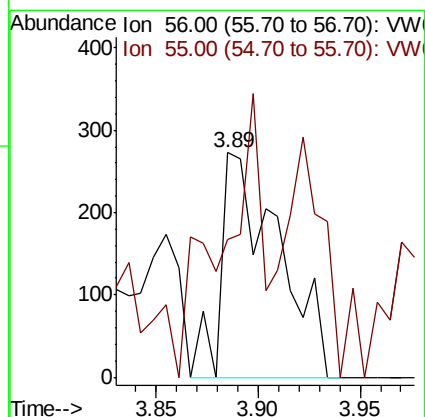
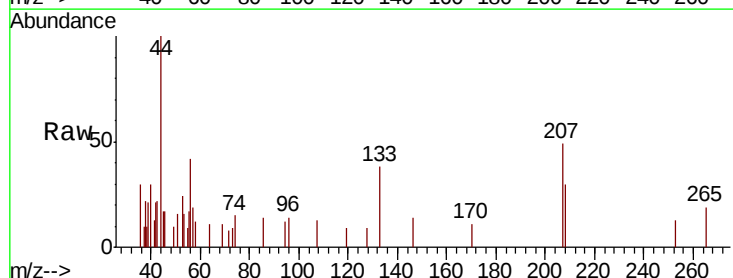
#11
Tert butyl alcohol
Concen: 56.808 ug/l
RT: 5.12 min Scan# 528
Delta R.T. -0.04 min
Lab File: VW008794.D
Acq: 22 Feb 2019 17:25

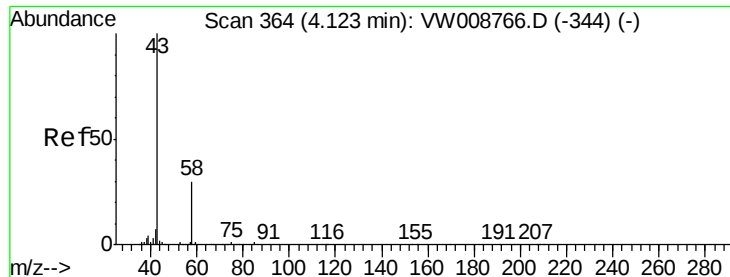
Tgt Ion: 59 Resp: 16955
Ion Ratio Lower Upper
59 100
57 1.3 9.3 13.9#



#13
Acrolein
Concen: 21.348 ug/l
RT: 3.89 min Scan# 325
Delta R.T. -0.01 min
Lab File: VW008794.D
Acq: 22 Feb 2019 17:25

Tgt Ion: 56 Resp: 536
Ion Ratio Lower Upper
56 100
55 43.7 56.9 85.3#





#16

Acetone

Concen: 43.722 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW008794.D

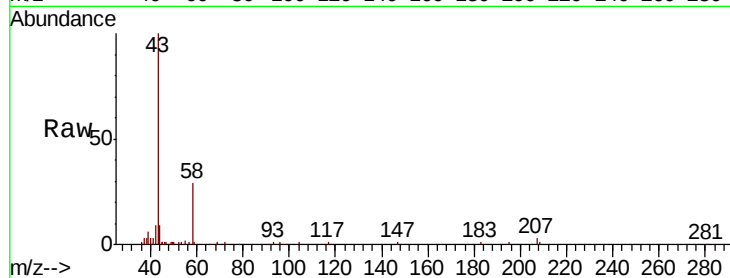
Acq: 22 Feb 2019 17:25

Tgt Ion: 43 Resp: 33976

Ion Ratio Lower Upper

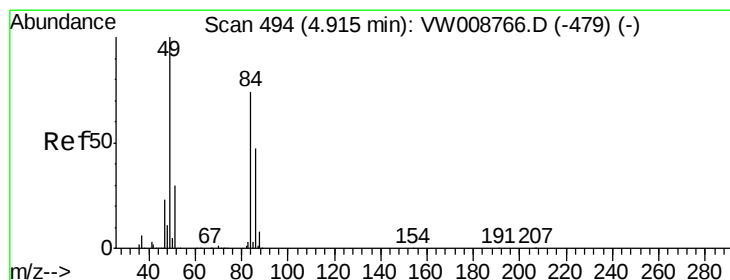
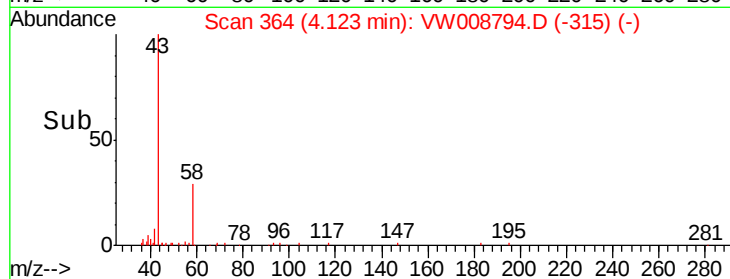
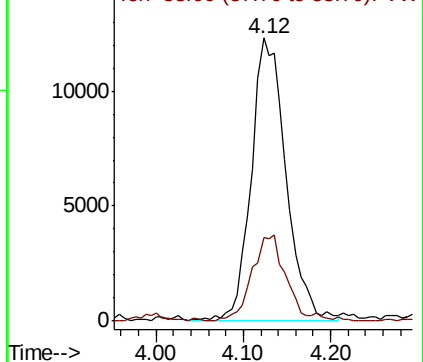
43 100

58 29.4 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 2.798 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

Tgt Ion: 84 Resp: 29175

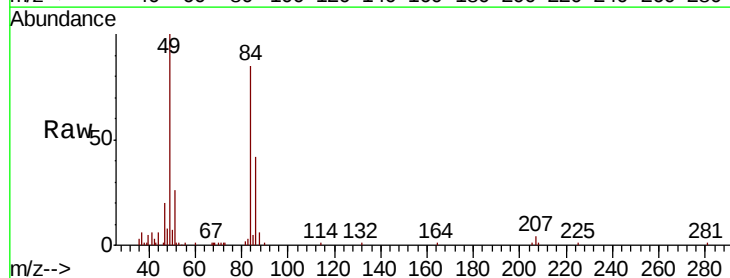
Ion Ratio Lower Upper

84 100

49 117.4 108.2 162.2

51 30.8 32.7 49.1#

86 48.8 50.3 75.5#

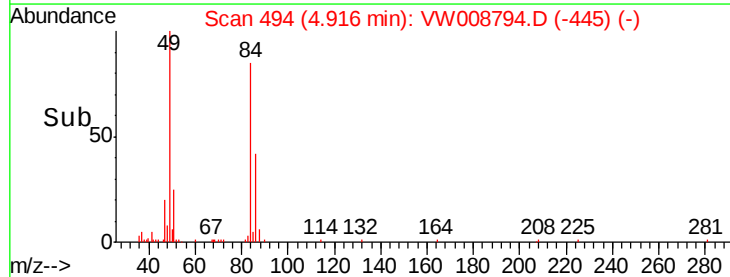
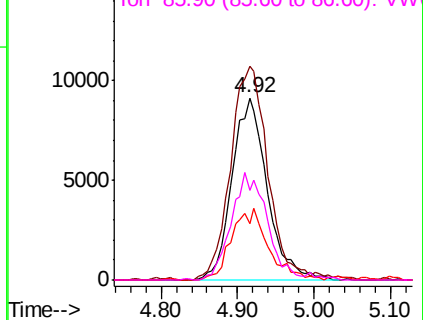


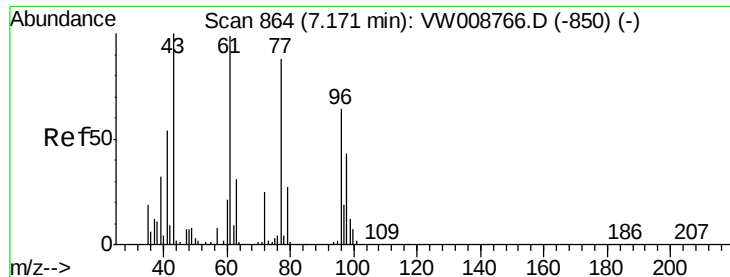
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 7.964 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW008794.D

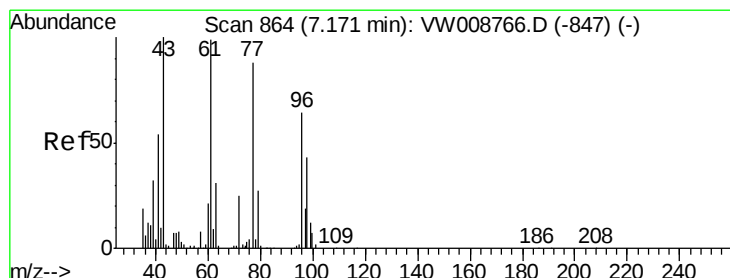
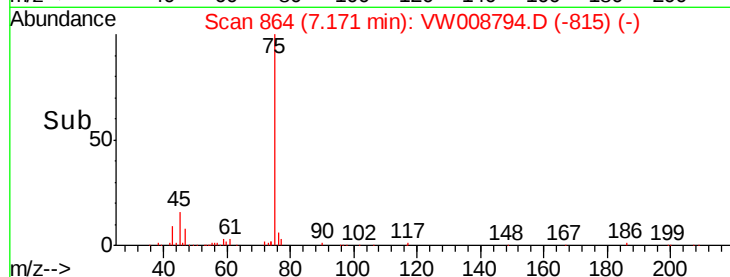
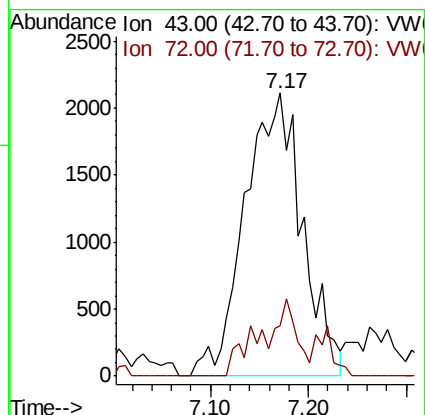
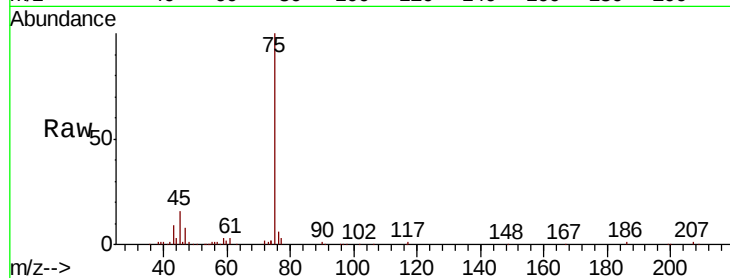
Acq: 22 Feb 2019 17:25

Tgt Ion: 43 Resp: 8652

Ion Ratio Lower Upper

43 100

72 17.6 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 1.057 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW008794.D

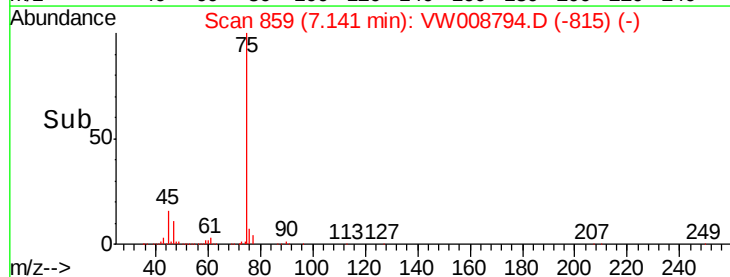
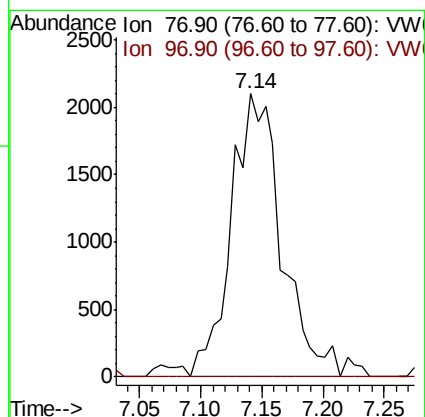
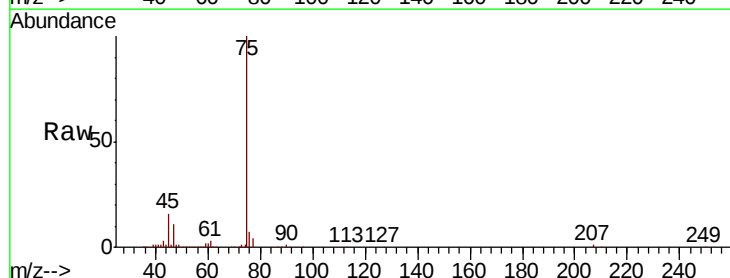
Acq: 22 Feb 2019 17:25

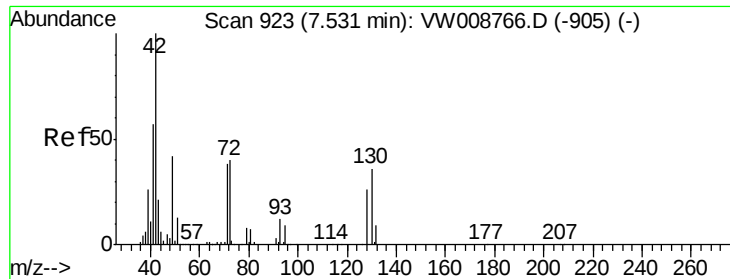
Tgt Ion: 77 Resp: 5991

Ion Ratio Lower Upper

77 100

97 0.0 11.0 33.0#





#29

Tetrahydrofuran

Concen: 1.996 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

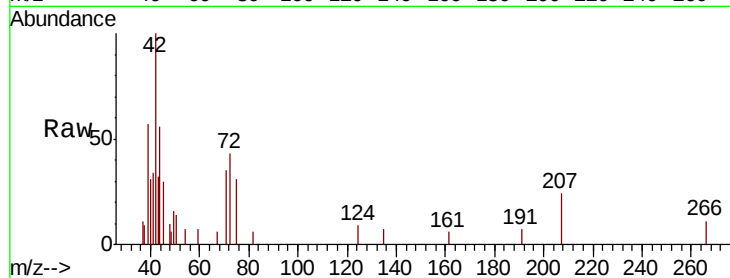
Tgt Ion: 42 Resp: 1382

Ion Ratio Lower Upper

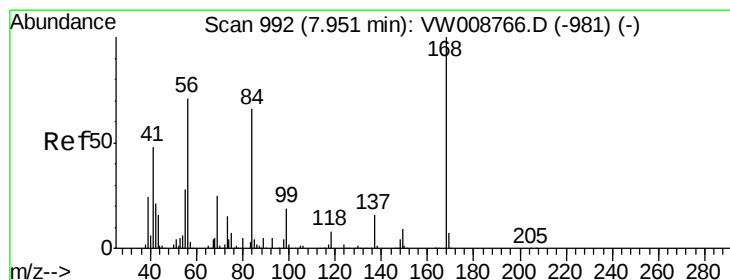
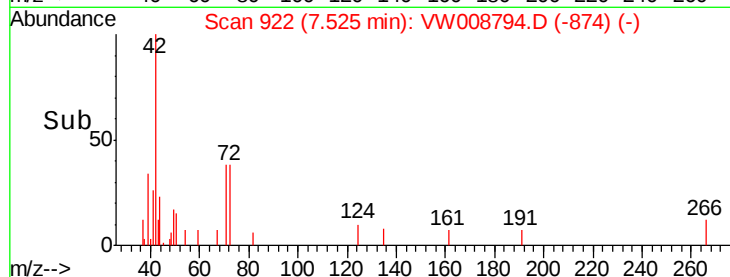
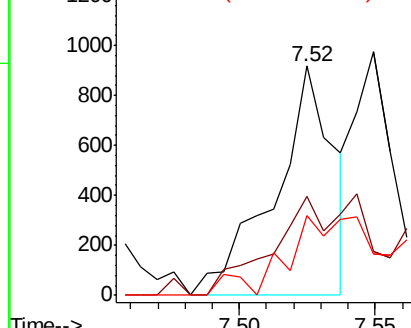
42 100

72 38.8 32.7 49.1

71 56.7 31.3 46.9#



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: 1.363 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

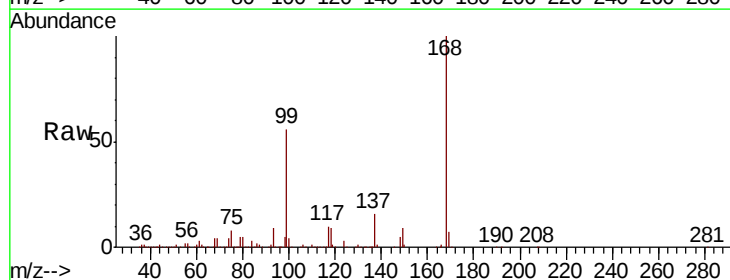
Tgt Ion: 56 Resp: 8612

Ion Ratio Lower Upper

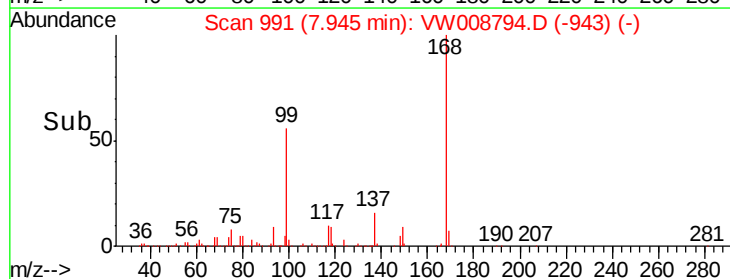
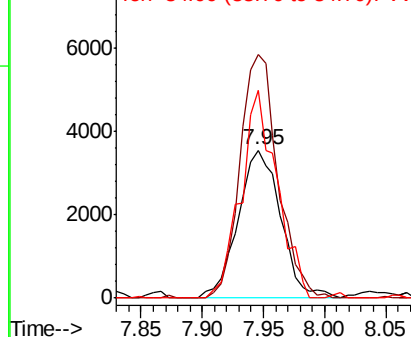
56 100

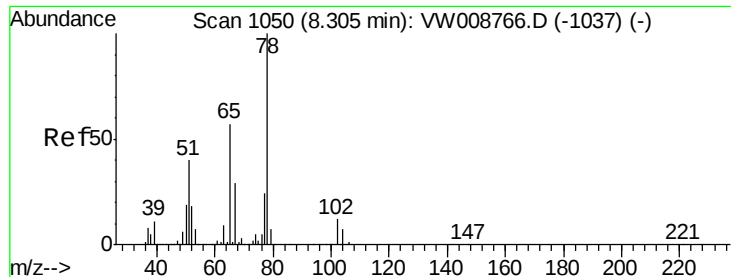
69 164.6 28.2 42.4#

84 140.8 74.1 111.1#



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: 56.396 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008794.D

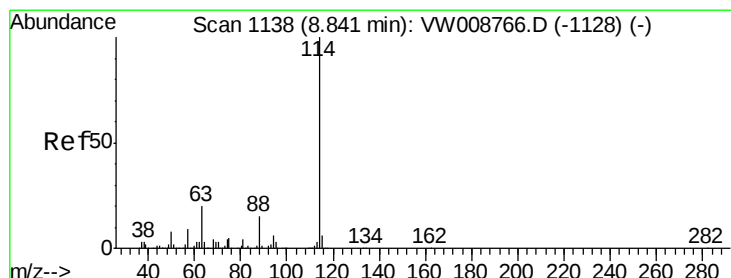
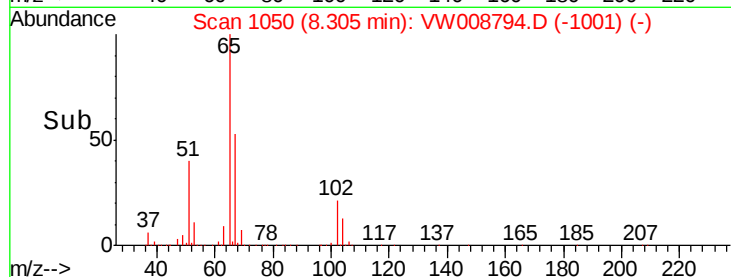
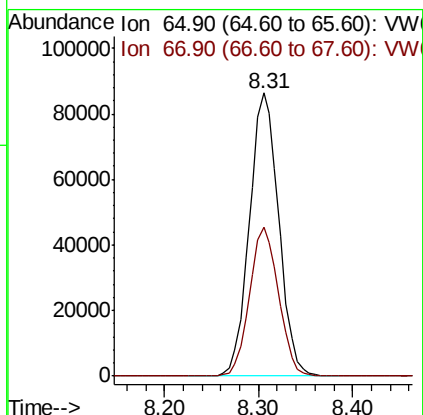
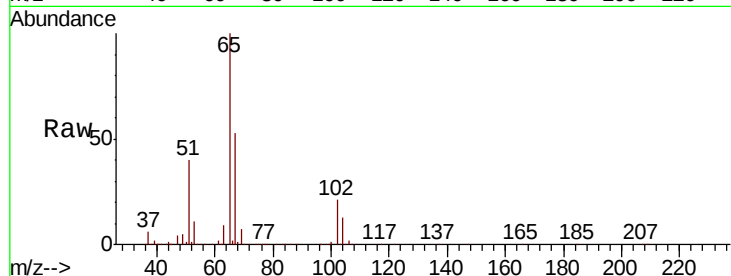
Acq: 22 Feb 2019 17:25

Tgt Ion: 65 Resp: 189068

Ion Ratio Lower Upper

65 100

67 52.1 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

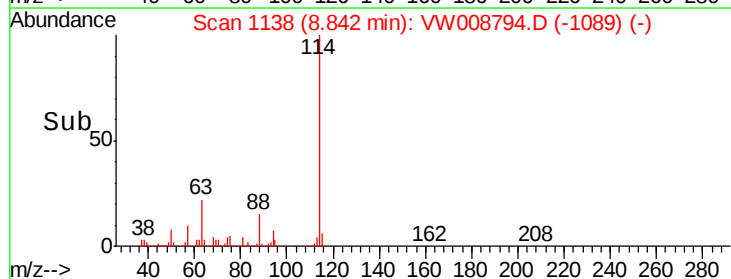
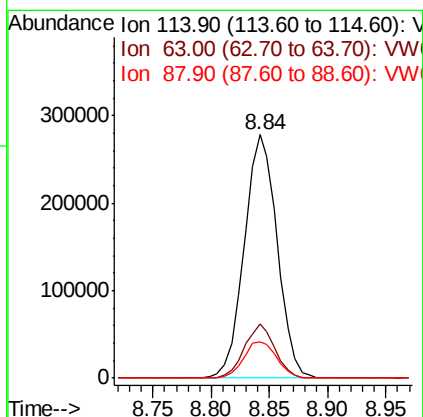
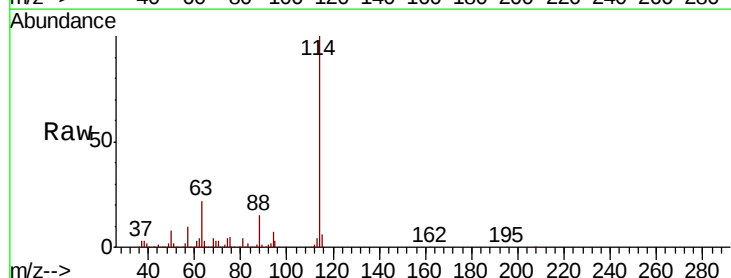
Tgt Ion: 114 Resp: 547078

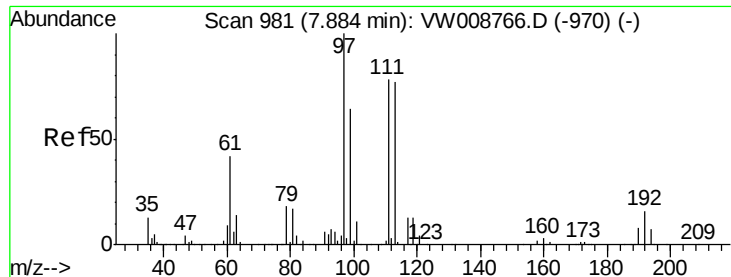
Ion Ratio Lower Upper

114 100

63 22.1 0.0 40.8

88 14.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 51.403 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

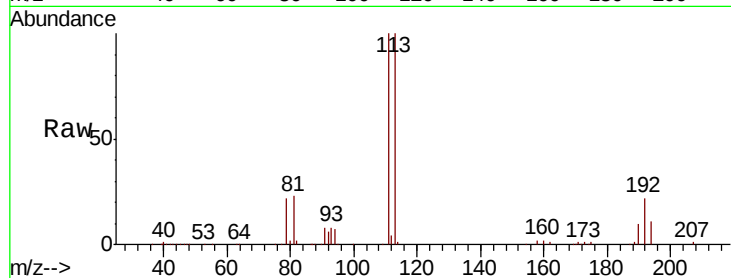
Tgt Ion: 113 Resp: 168843

Ion Ratio Lower Upper

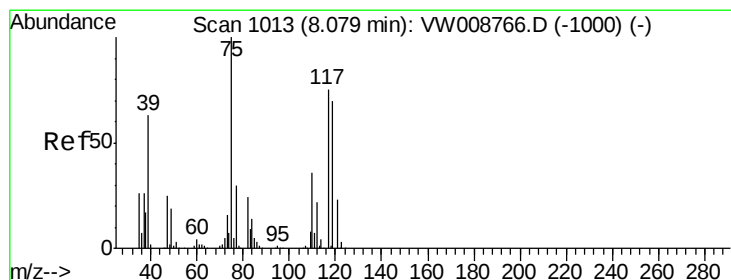
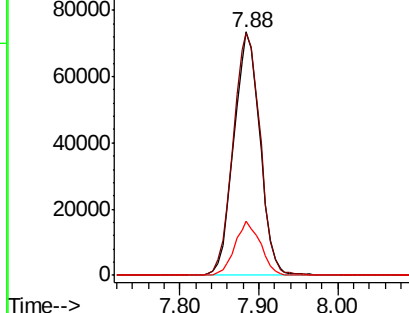
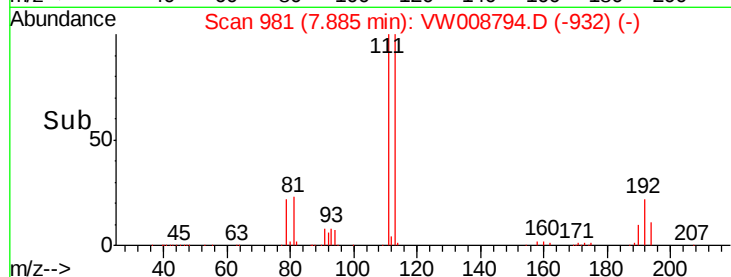
113 100

111 103.0 81.9 122.9

192 22.0 17.1 25.7



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: 4.895 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

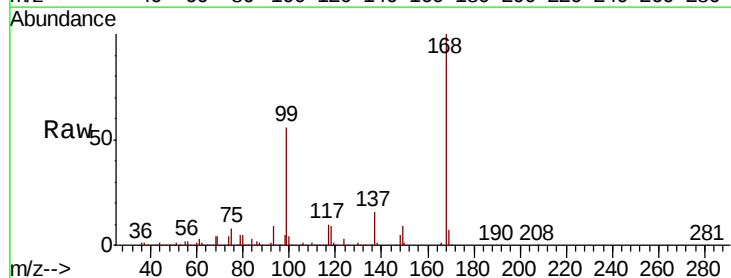
Tgt Ion: 75 Resp: 26068

Ion Ratio Lower Upper

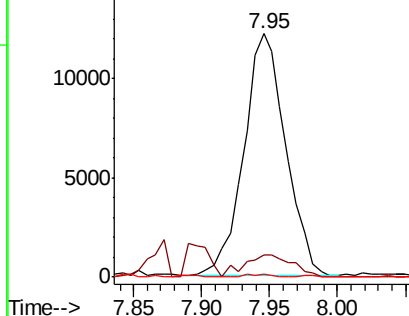
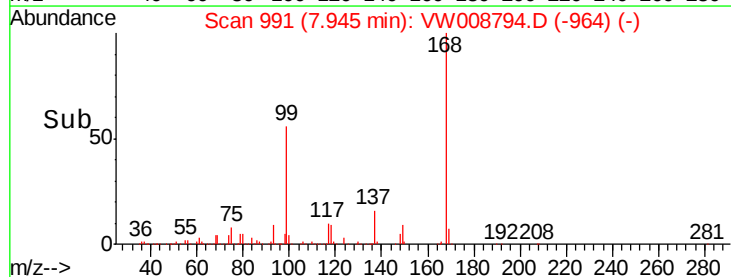
75 100

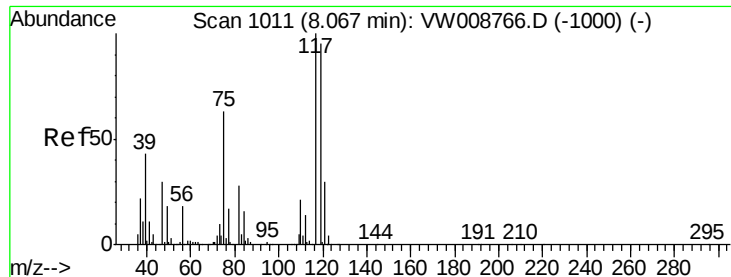
110 10.8 17.5 52.6#

77 0.6 24.5 36.7#



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: 6.147 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

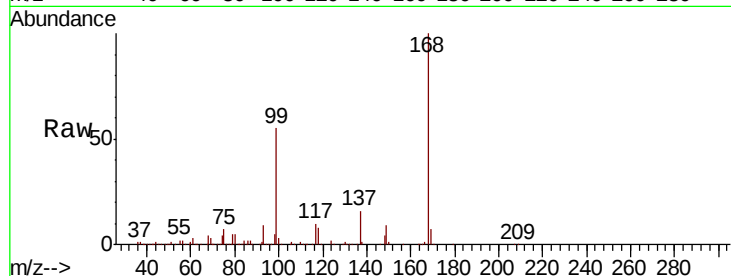
Tgt Ion: 117 Resp: 34525

Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

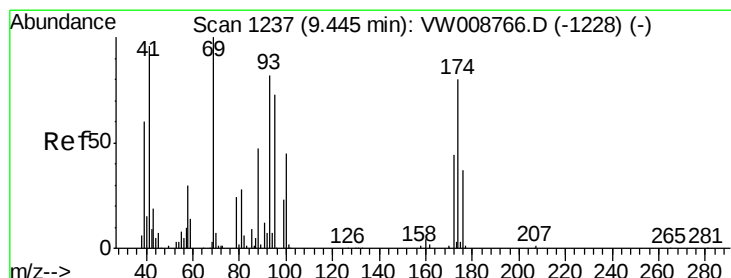
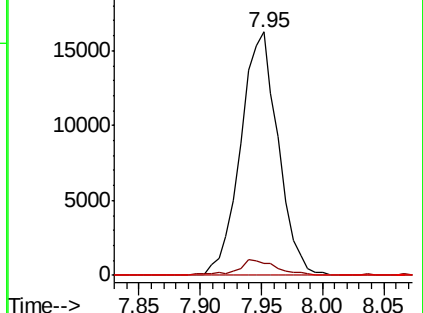
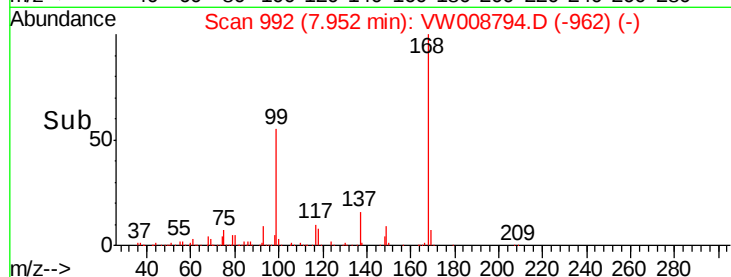
121 0.0 24.0 36.0#



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



#49

1,4-Dioxane

Concen: 2.250 ug/l

RT: 9.40 min Scan# 1230

Delta R.T. -0.04 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

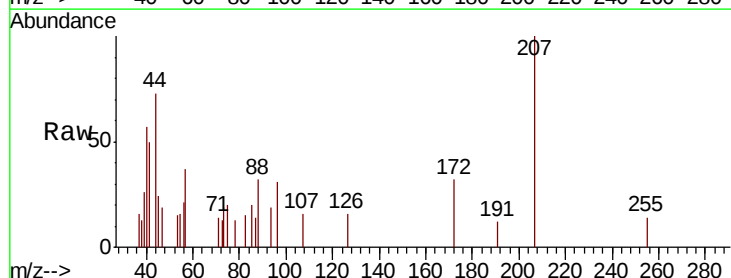
Tgt Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 0.0 29.0 43.4#

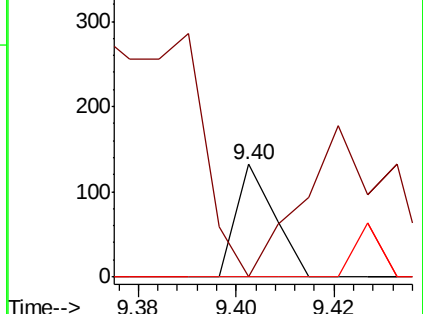
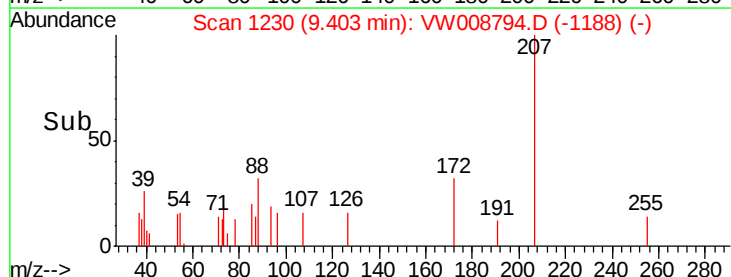
58 0.0 52.0 78.0#

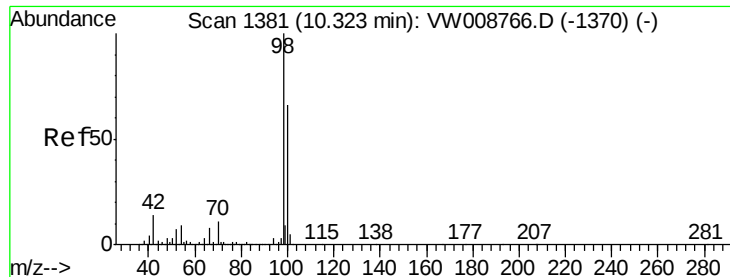


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 51.828 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008794.D

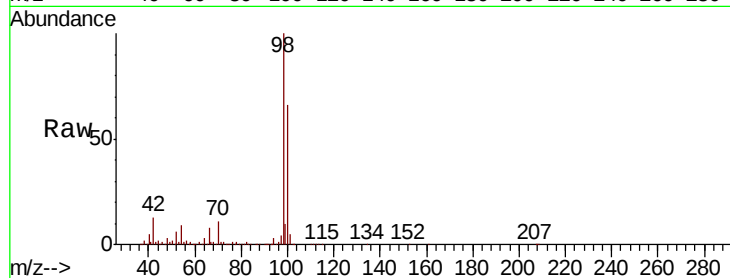
Acq: 22 Feb 2019 17:25

Tgt Ion: 98 Resp: 657174

Ion Ratio Lower Upper

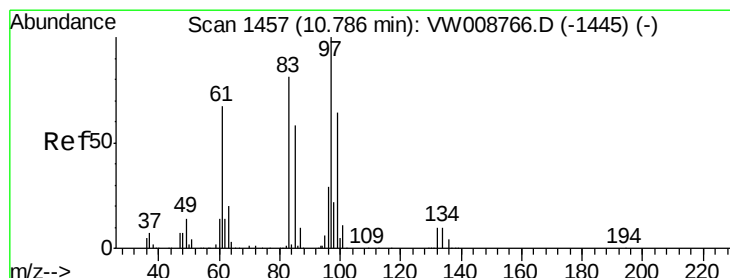
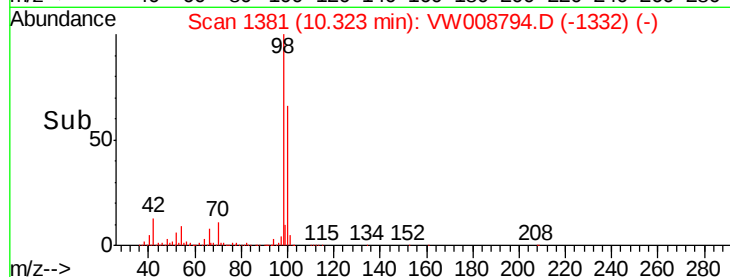
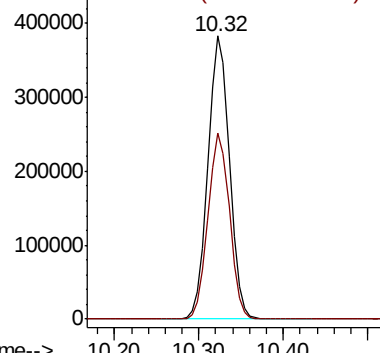
98 100

100 65.7 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#55

1,1,2-Trichloroethane

Concen: 1.101 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

Tgt Ion: 97 Resp: 2983

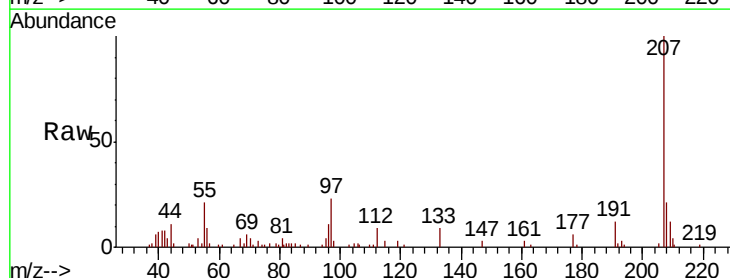
Ion Ratio Lower Upper

97 100

83 9.1 65.0 97.6#

85 10.6 46.0 69.0#

99 0.0 51.1 76.7#

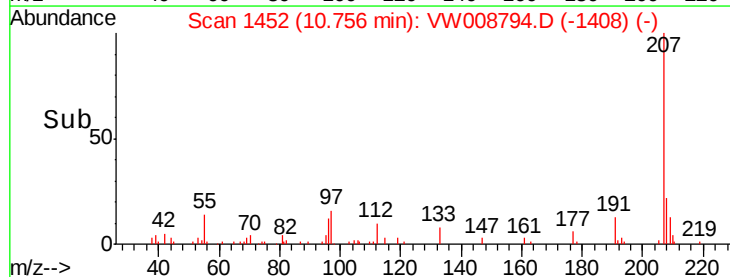
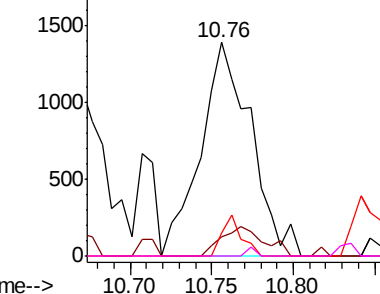


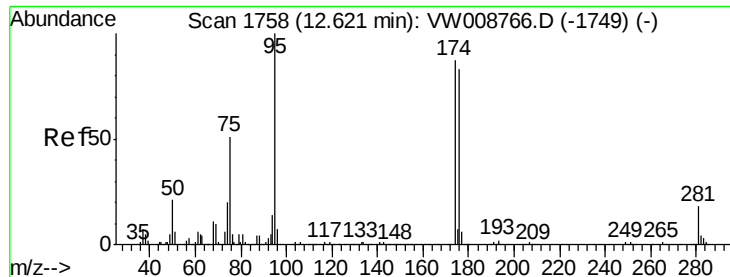
Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW





#62

4-Bromofluorobenzene

Concen: 45.072 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

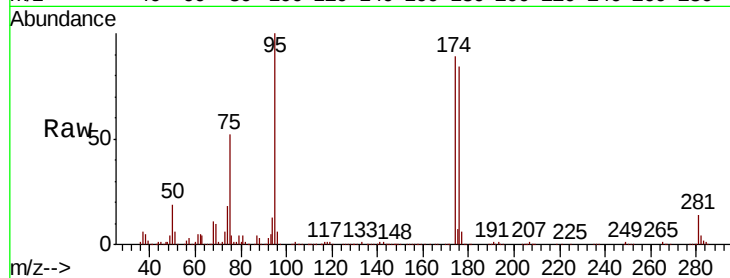
Tgt Ion: 95 Resp: 223770

Ion Ratio Lower Upper

95 100

174 87.0 0.0 169.2

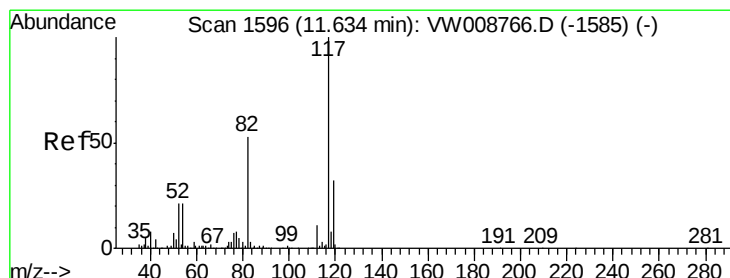
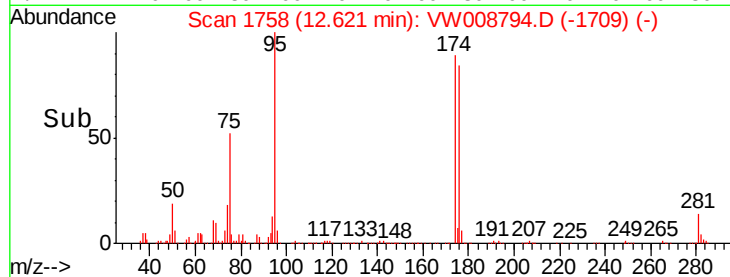
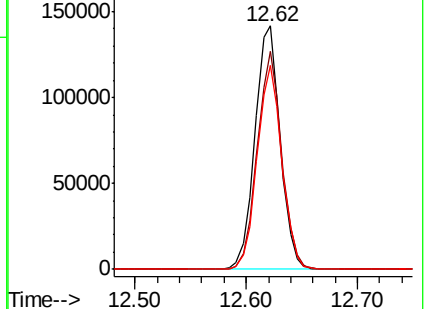
176 82.2 0.0 163.6



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# 1596

Delta R.T. 0.00 min

Lab File: VW008794.D

Acq: 22 Feb 2019 17:25

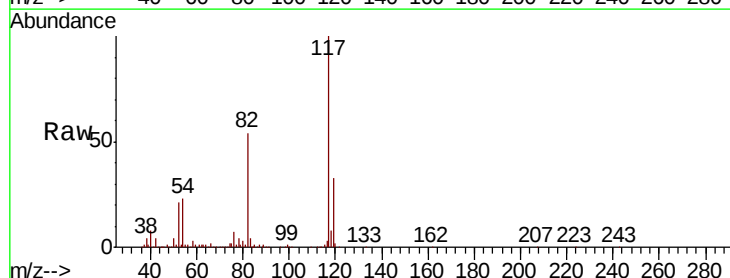
Tgt Ion: 117 Resp: 482999

Ion Ratio Lower Upper

117 100

82 54.4 42.2 63.4

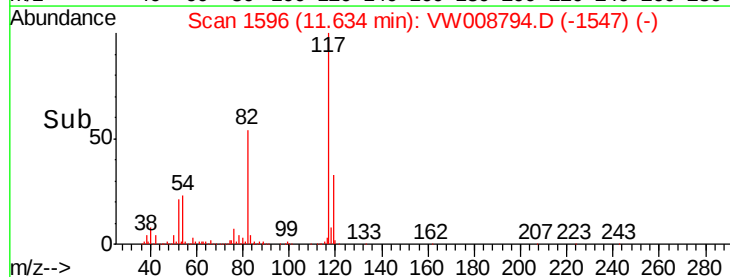
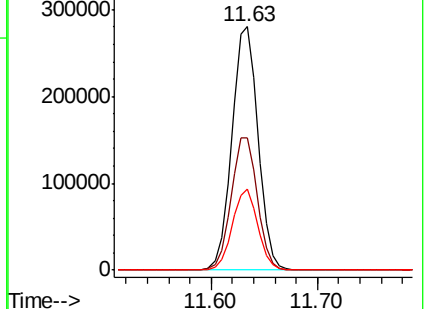
119 33.1 25.9 38.9

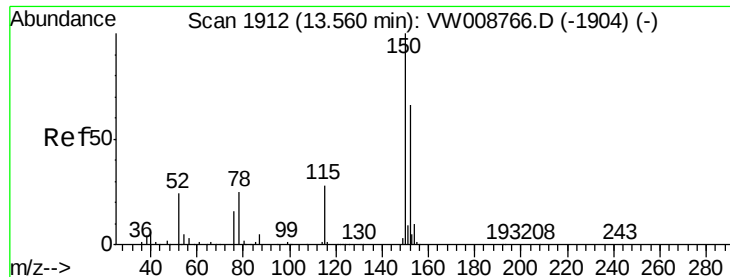


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

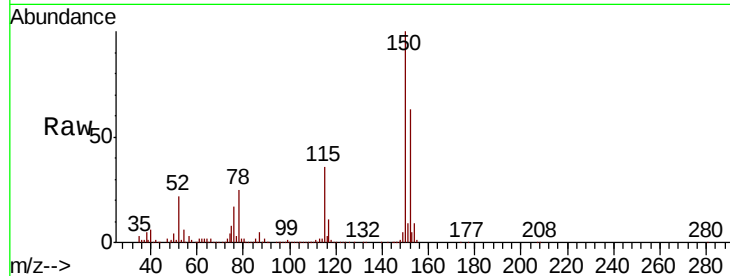




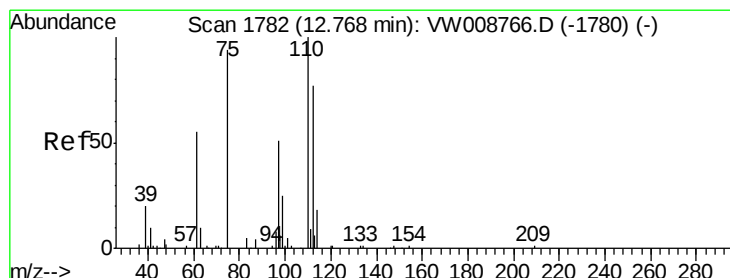
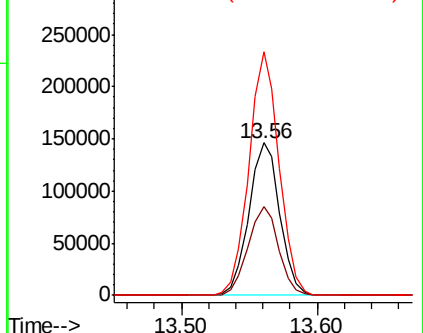
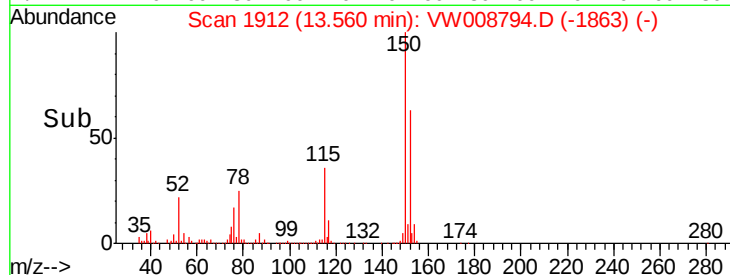
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008794.D
Acq: 22 Feb 2019 17:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.6	85.8
150	155.9	0.0	348.0



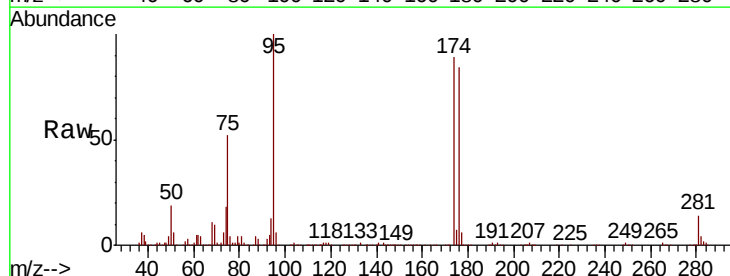
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



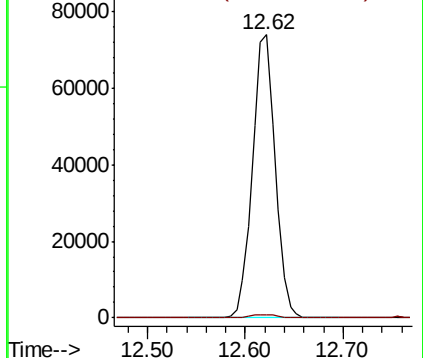
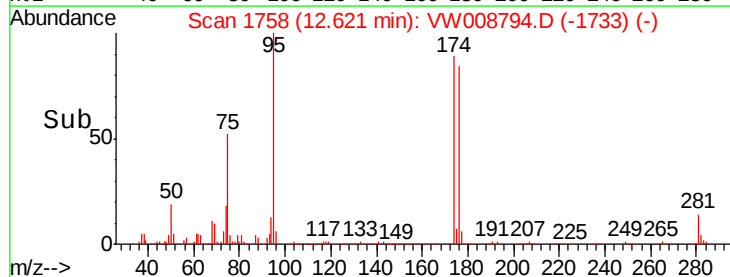
#76

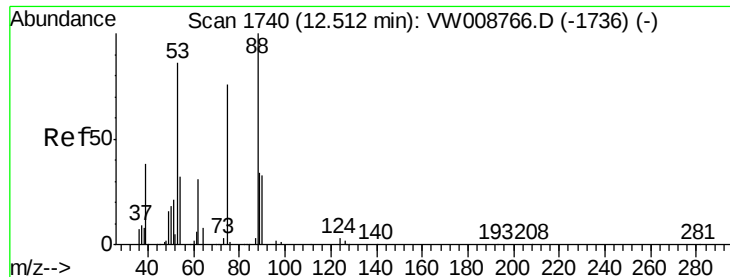
1,2,3-Trichloropropane
Concen: 62.507 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW008794.D
Acq: 22 Feb 2019 17:25

Tgt 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: 151.959 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW008794.D
 Acq: 22 Feb 2019 17:25

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.1	88.2	132.2#
89	0.2	39.5	59.3#

