

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053662.D
 Acq On : 7 Feb 2019 18:07
 Operator : JC/SP
 Sample : PB116887ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Quant Time: Feb 09 00:30:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	747587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1234226	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1123487	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	460777	50.00	ug/l	0.00

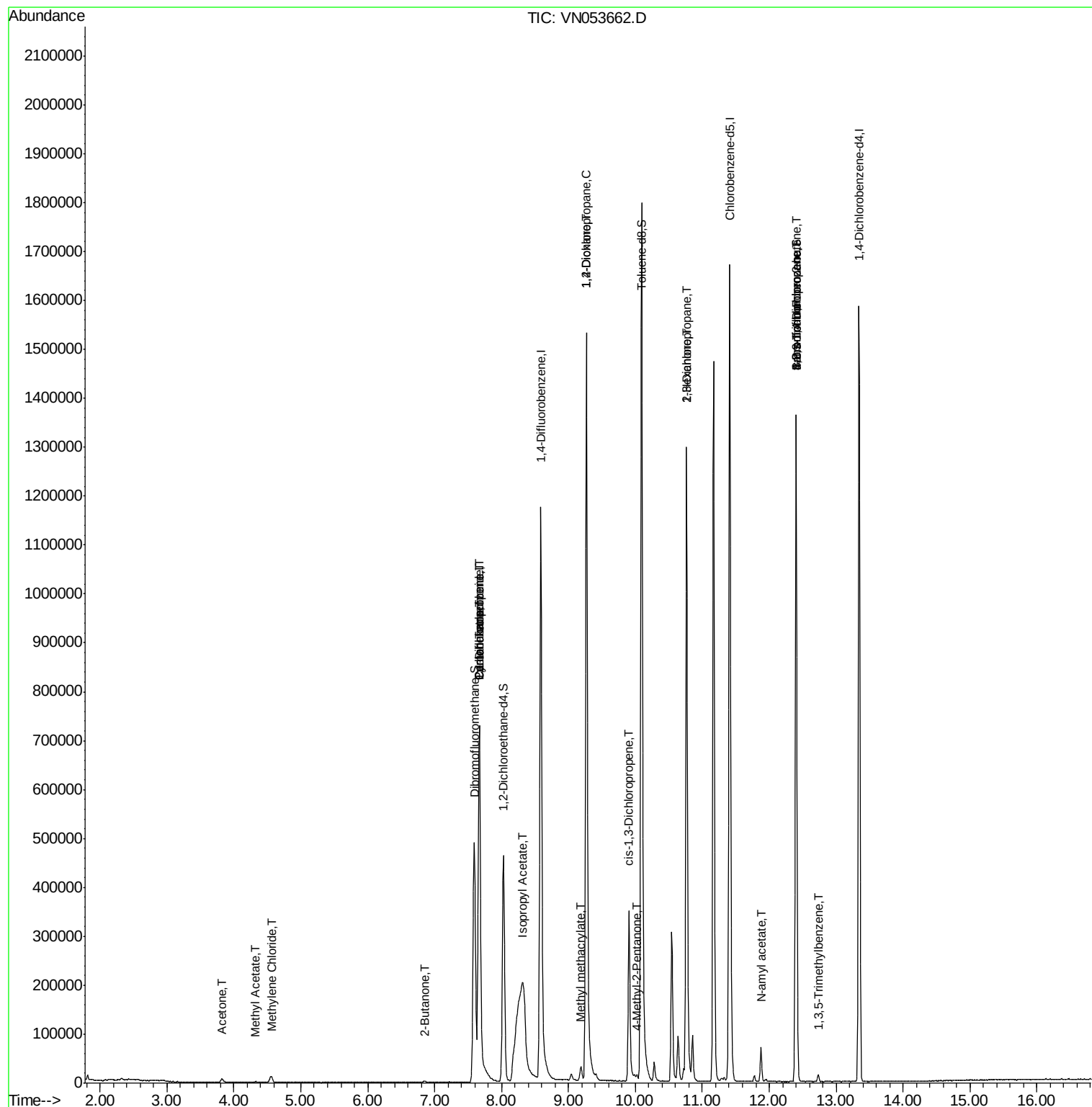
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	391417	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	
35) Dibromofluoromethane	7.59	113	390532	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.09	98	1480383	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.40	95	487169	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	

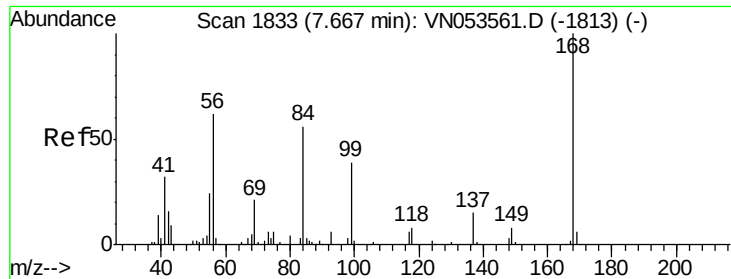
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12981	6.748	ug/l	95
18) Methyl Acetate	4.33	43	1825	0.320	ug/l	96
20) Methylene Chloride	4.56	84	10534	1.305	ug/l	93
25) 2-Butanone	6.84	43	4376	1.595	ug/l	93
31) Cyclohexane	7.67	56	10478	0.659	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45343	4.075	ug/l #	48
38) Carbon Tetrachloride	7.67	117	57449	5.126	ug/l #	15
43) Isopropyl Acetate	8.32	43	644742	53.728	ug/l #	51
45) 1,2-Dichloropropane	9.27	63	1941	0.221	ug/l #	43
48) Methyl methacrylate	9.18	41	10787	1.883	ug/l #	12
49) 1,4-Dioxane	9.26	88	29	39.434	ug/l #	23
51) 4-Methyl-2-Pentanone	10.02	43	8632	1.464	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	77397	5.930	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	14419	1.150	ug/l #	43
59) 2-Hexanone	10.76	43	194736	48.645	ug/l #	51
71) Bromoform	12.40	173	1441	0.252	ug/l #	1
74) N-amyl acetate	11.88	43	20211	2.595	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	222754	37.638	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7527	0.280	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	222754	105.834	ug/l #	15

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053662.D

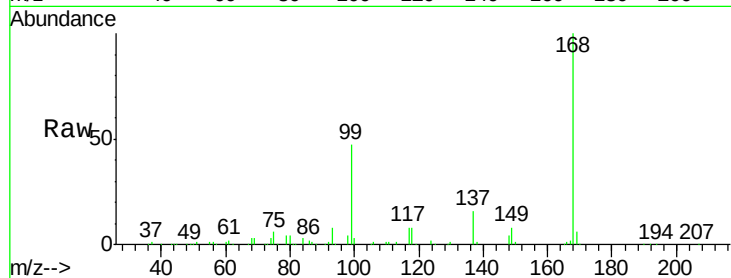
Acq: 7 Feb 2019 18:07

Tot Ion:168 Resp: 747587

Ion Ratio Lower Upper

168 100

99 47.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053561.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN053561.D (-1813) (-)

7.67

300000

250000

200000

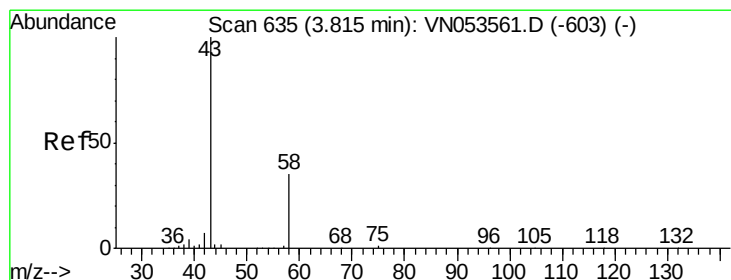
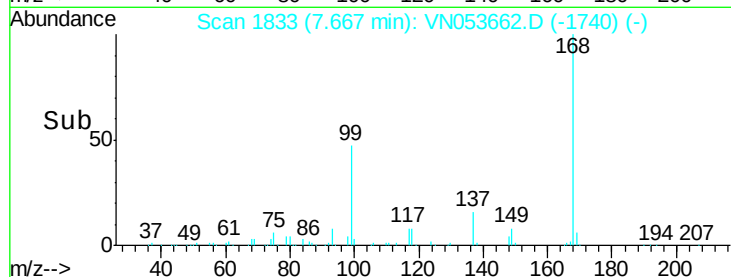
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 6.748 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053662.D

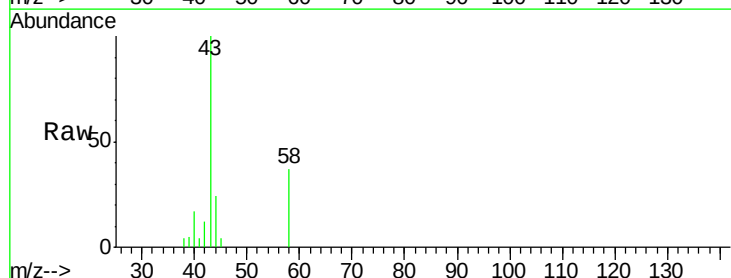
Acq: 7 Feb 2019 18:07

Tgt Ion: 43 Resp: 12981

Ion Ratio Lower Upper

43 100

58 36.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-603) (-)

3.82

5000

4000

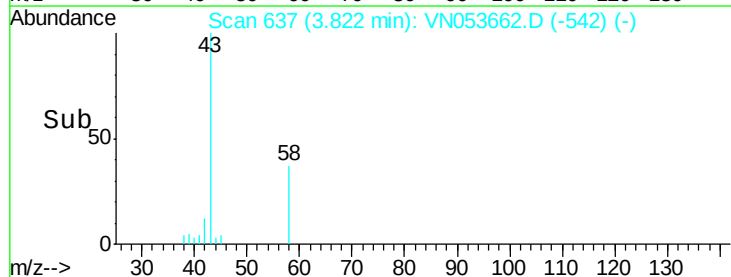
3000

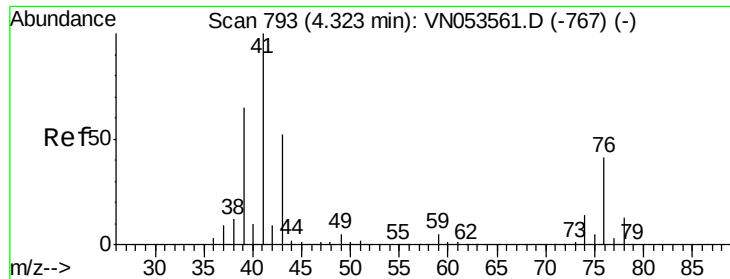
2000

1000

0

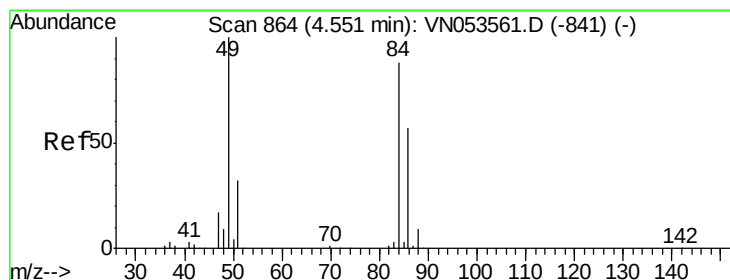
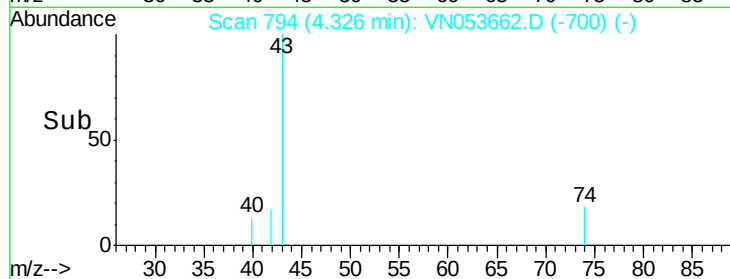
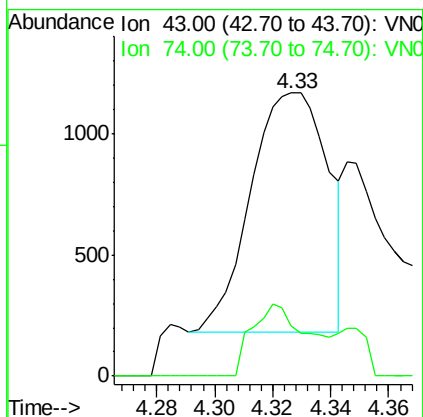
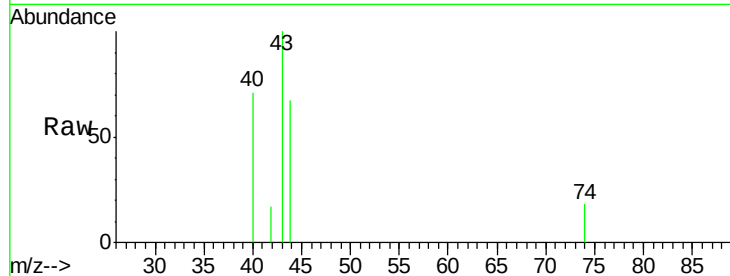
Time--> 3.70 3.80 3.90





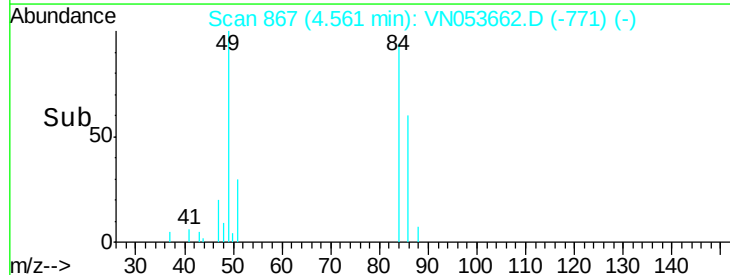
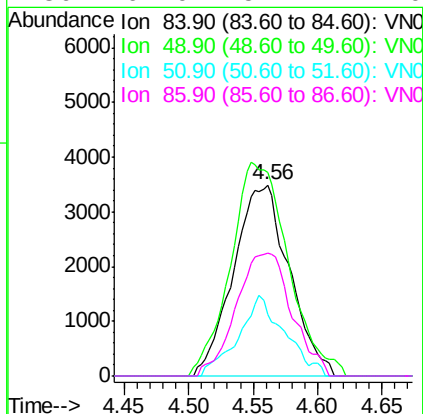
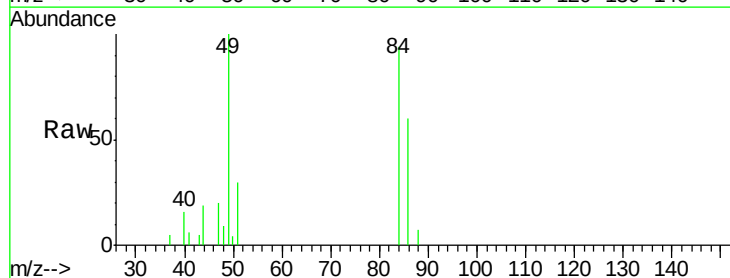
#18
Methyl Acetate
Concen: 0.320 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053662.D
Acq: 7 Feb 2019 18:07

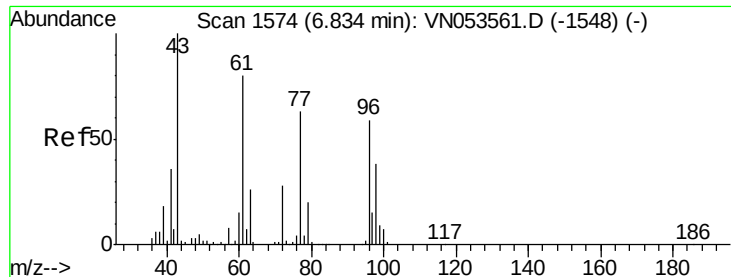
Tot Ion: 43 Resp: 1825
Ion Ratio Lower Upper
43 100
74 22.2 19.4 29.2



#20
Methylene Chloride
Concen: 1.305 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053662.D
Acq: 7 Feb 2019 18:07

Tgt Ion: 84 Resp: 10534
Ion Ratio Lower Upper
84 100
49 106.8 94.3 141.5
51 32.2 29.4 44.2
86 64.0 51.4 77.0





#25

2-Butanone

Concen: 1.595 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053662.D

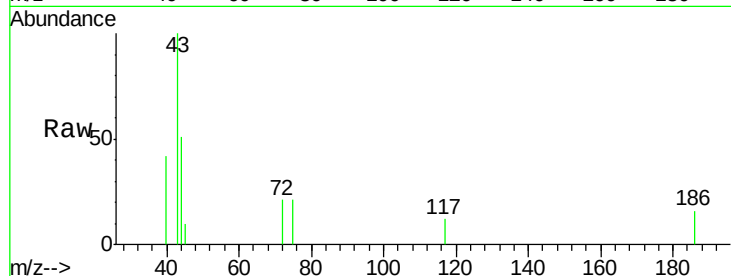
Acq: 7 Feb 2019 18:07

Tot Ion: 43 Resp: 4376

Ion Ratio Lower Upper

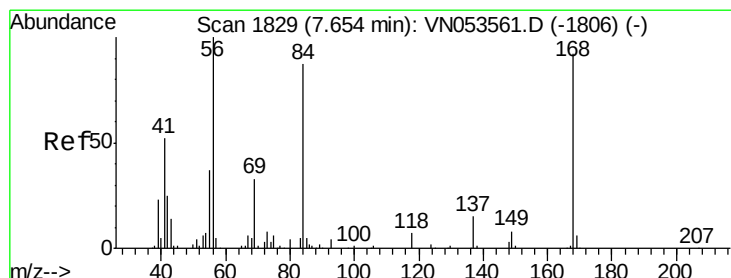
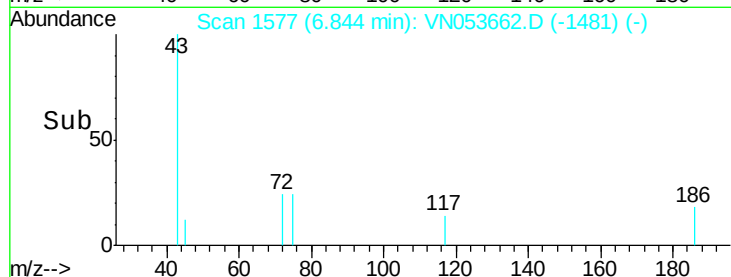
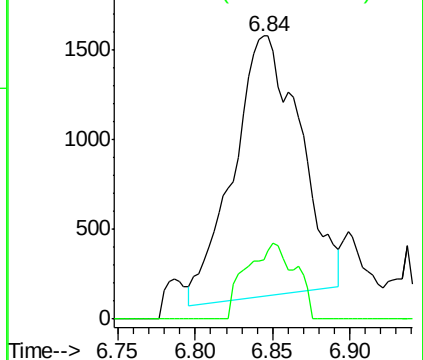
43 100

72 23.7 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.659 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

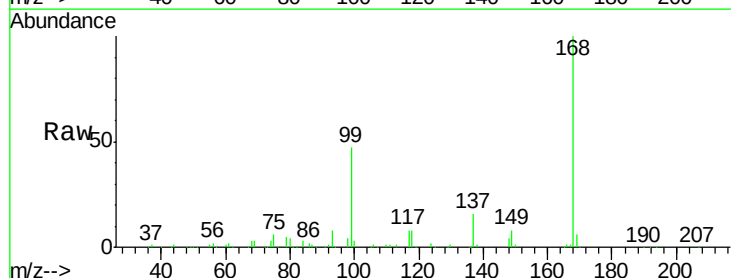
Tgt Ion: 56 Resp: 10478

Ion Ratio Lower Upper

56 100

69 172.5 26.4 39.6#

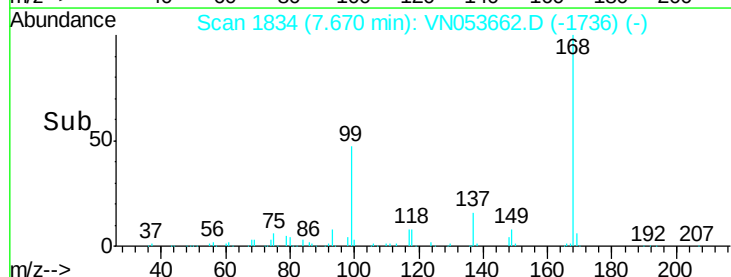
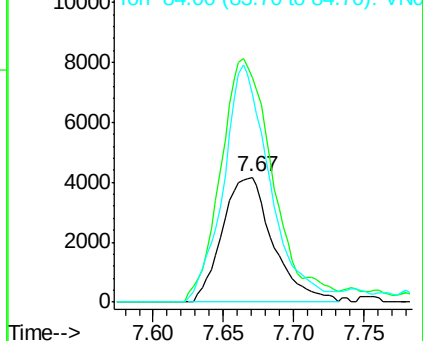
84 163.2 67.9 101.9#

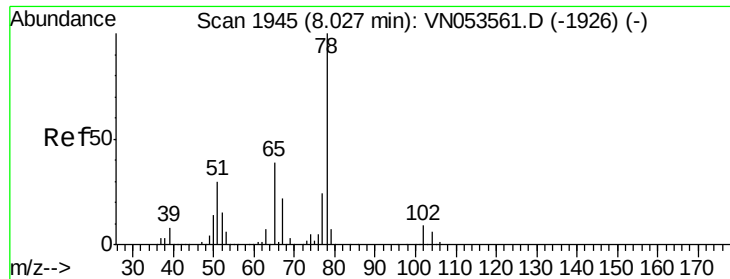


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

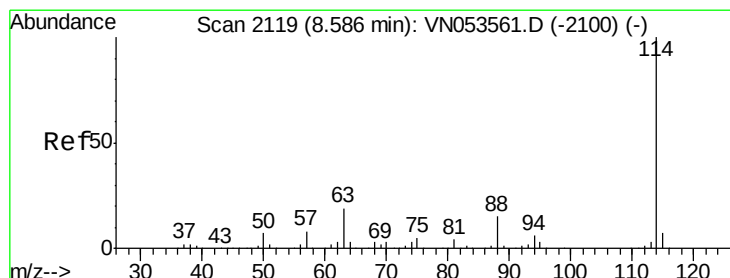
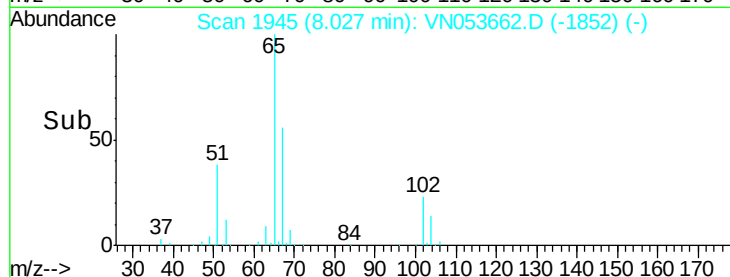
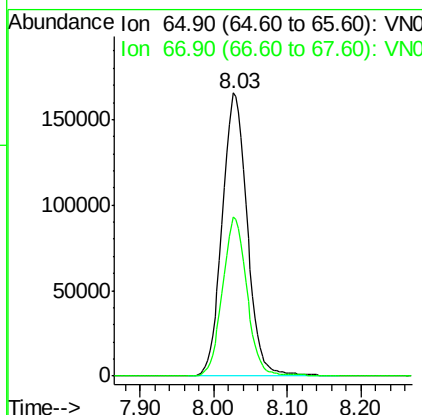
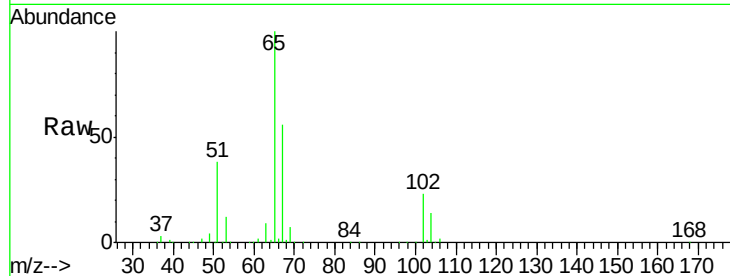
Ion 84.00 (83.70 to 84.70): VN0





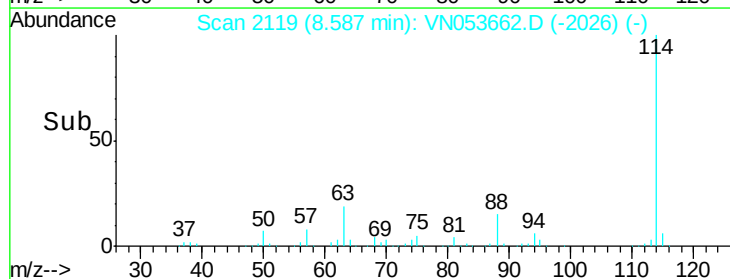
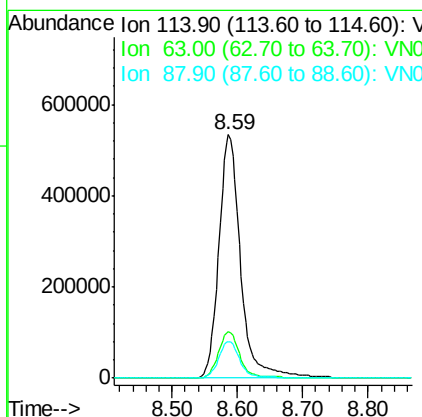
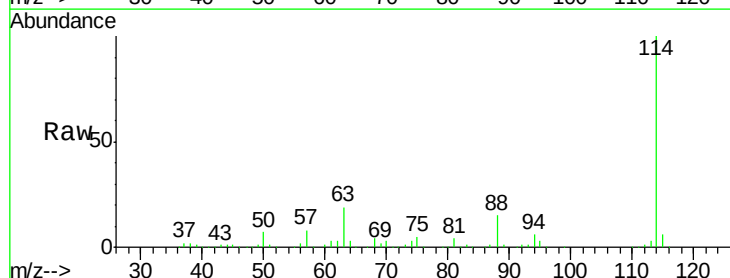
#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053662.D
 Acq: 7 Feb 2019 18:07

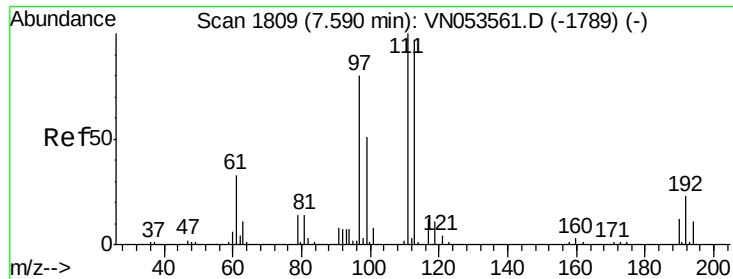
Tot Ion: 65 Resp: 391417
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053662.D
 Acq: 7 Feb 2019 18:07

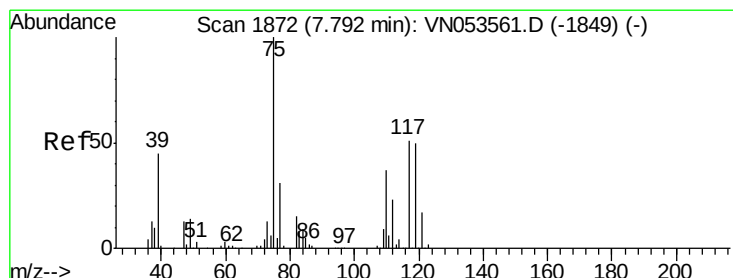
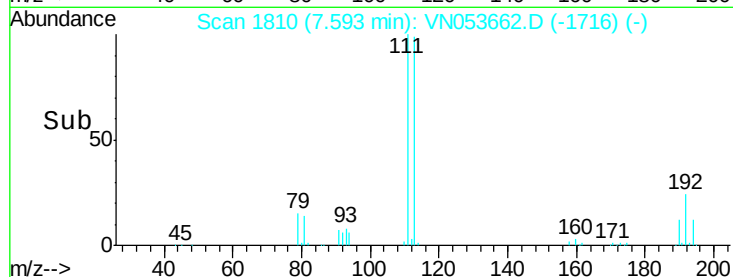
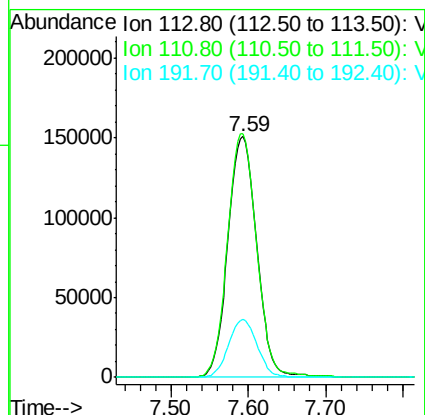
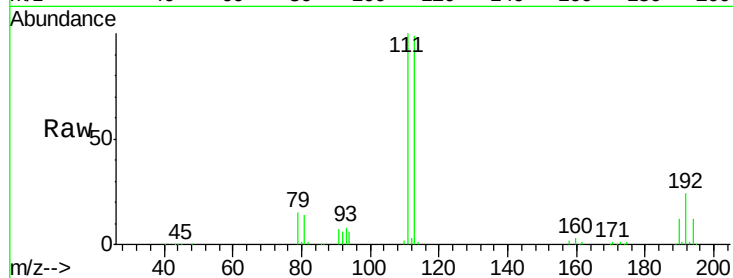
Tgt Ion: 114 Resp: 1234226
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 15.1 0.0 30.4





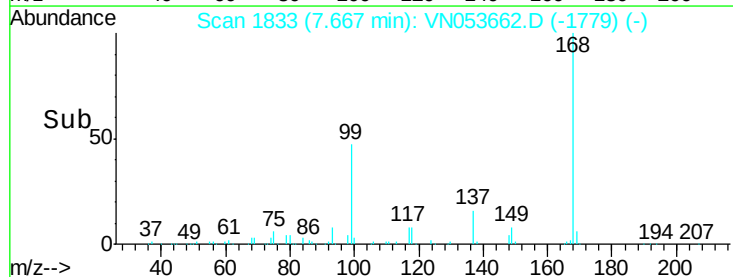
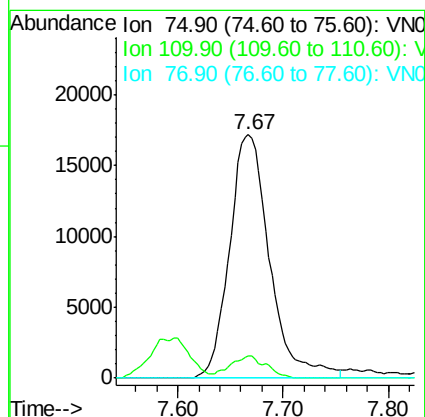
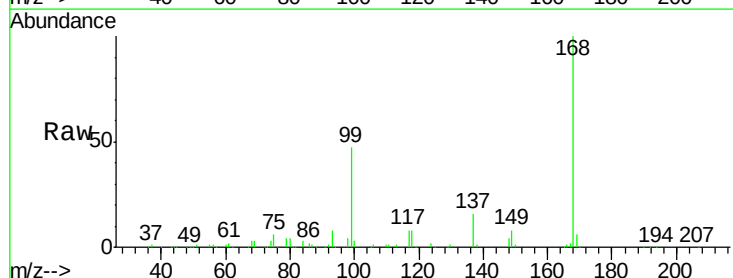
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053662.D
 Acq: 7 Feb 2019 18:07

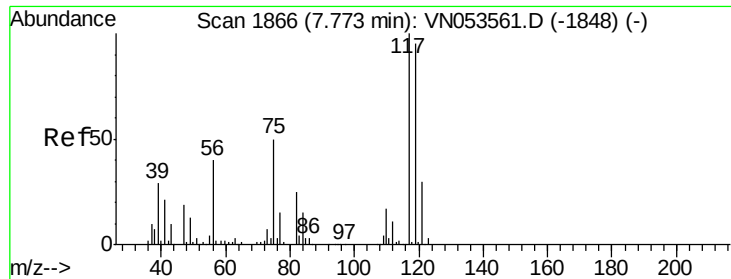
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.1	121.7
192	23.9	18.2	27.2



#36
 1,1-Dichloropropene
 Concen: 4.075 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053662.D
 Acq: 7 Feb 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.1	54.3#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.126 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

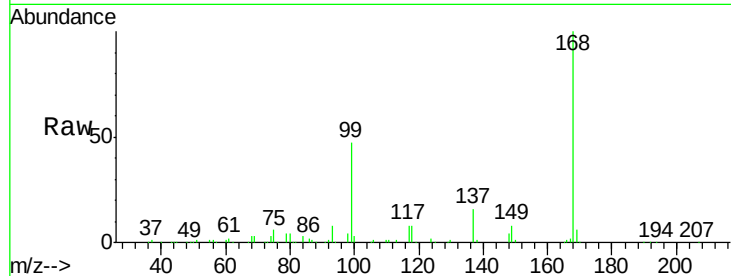
Tot Ion:117 Resp: 57449

Ion Ratio Lower Upper

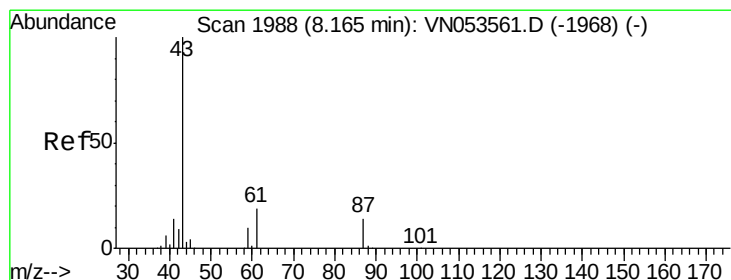
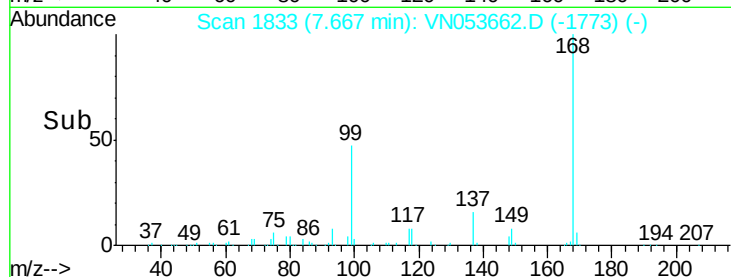
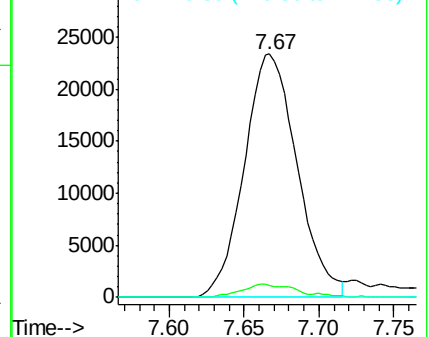
117 100

119 4.7 77.2 115.8#

121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 53.728 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

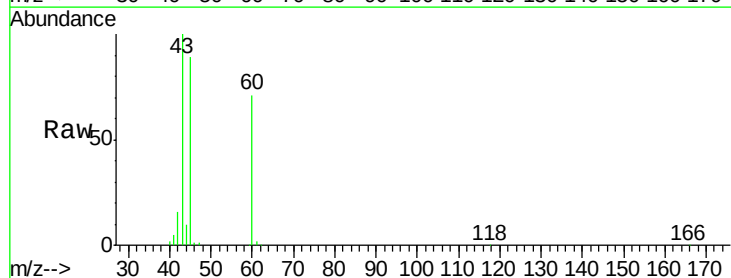
Tgt Ion: 43 Resp: 644742

Ion Ratio Lower Upper

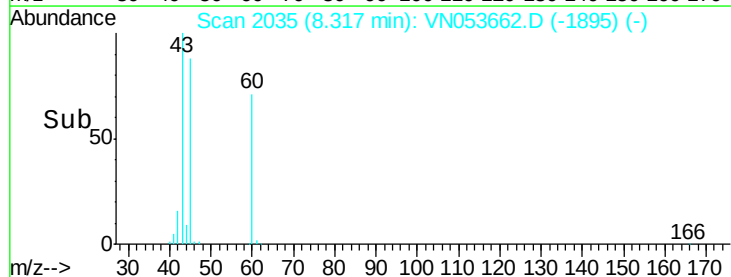
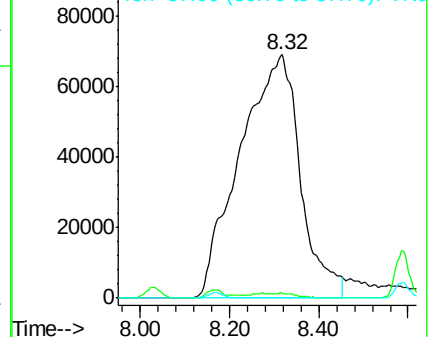
43 100

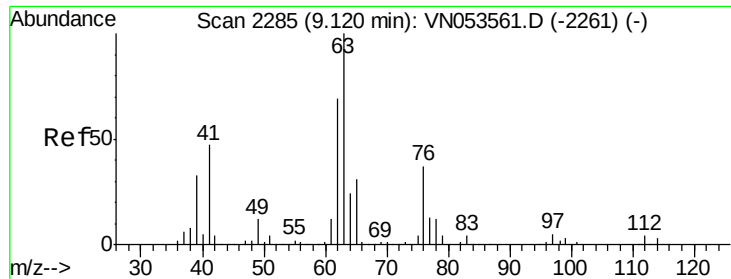
61 0.0 23.9 35.9#

87 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.221 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053662.D

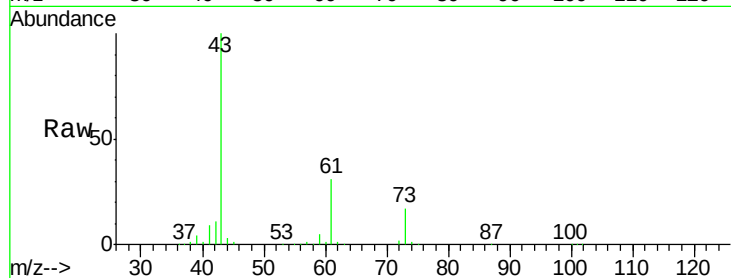
Acq: 7 Feb 2019 18:07

Tot Ion: 63 Resp: 1941

Ion Ratio Lower Upper

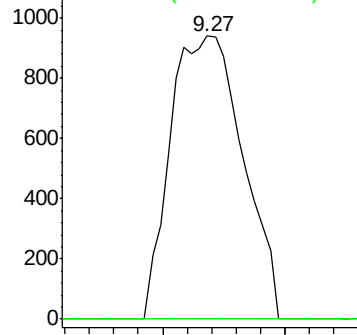
63 100

65 0.0 25.0 37.4#

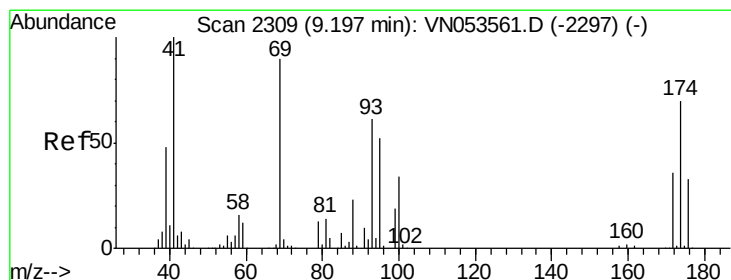
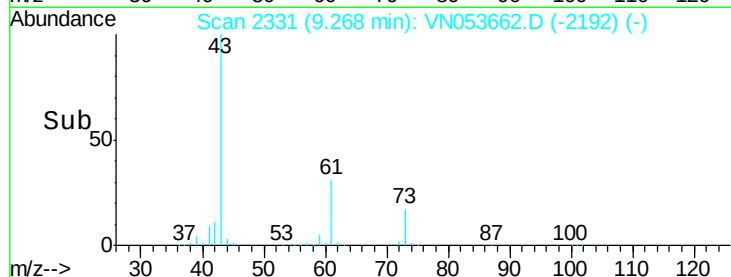


Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



Time-->



#48

Methyl methacrylate

Concen: 1.883 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

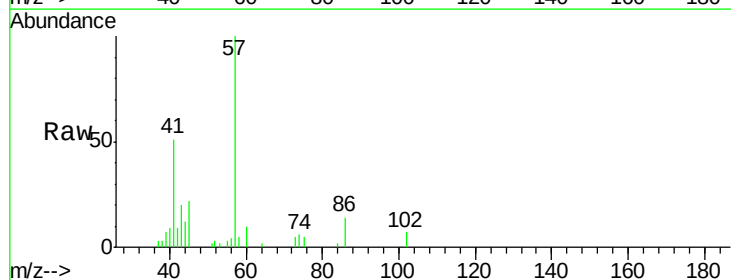
Tgt Ion: 41 Resp: 10787

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

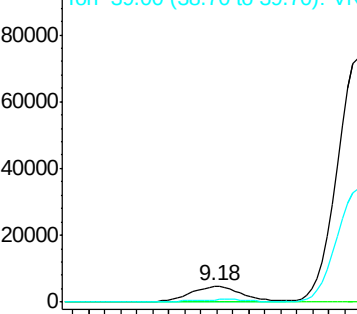
39 0.0 40.0 60.0#



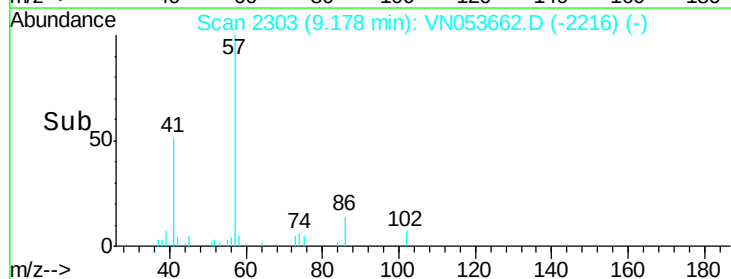
Abundance Ion 41.00 (40.70 to 41.70): VNC

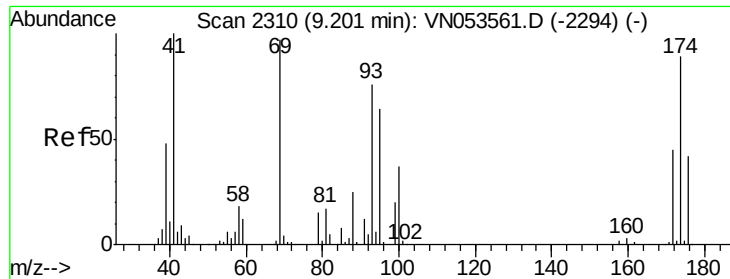
Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC



Time-->





#49

1,4-Dioxane

Concen: 39.434 ug/l

RT: 9.26 min Scan# 2328

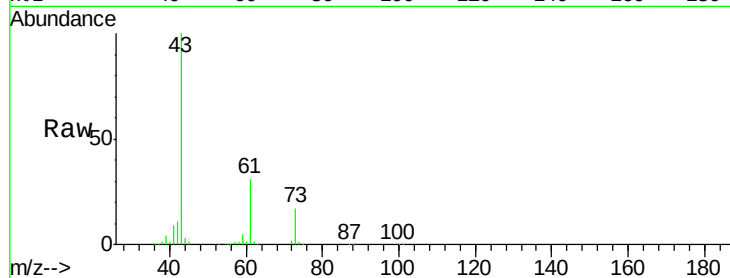
Delta R.T. 0.06 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

Tot Ion: 88 Resp: 29

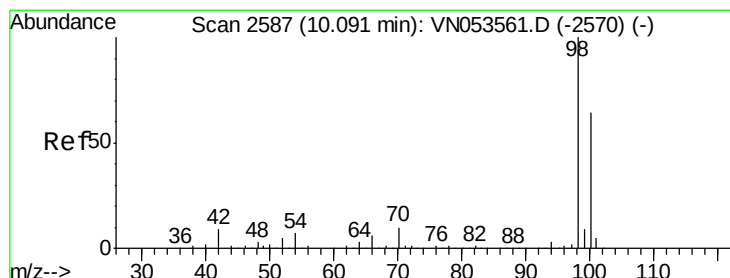
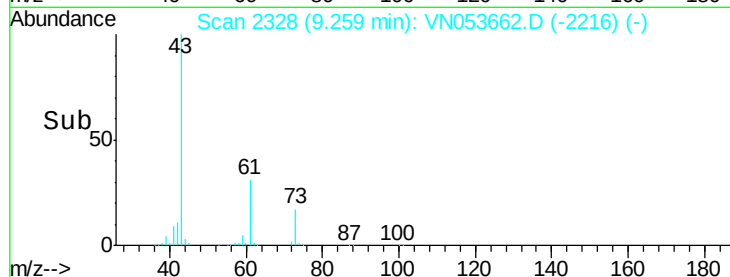
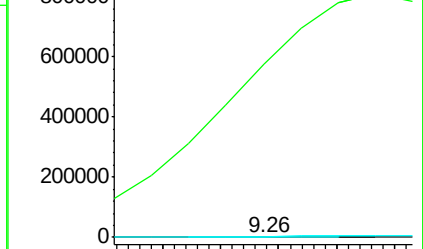
Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.8	41.6#
58	0.0	56.5	84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 39.434 ug/l

RT: 10.09 min Scan# 2587

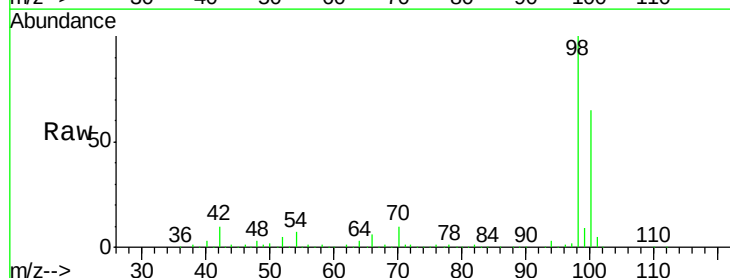
Delta R.T. 0.00 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

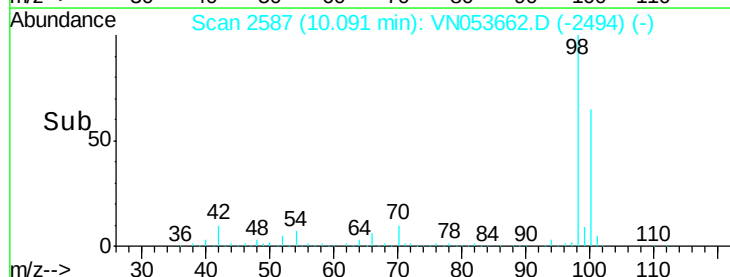
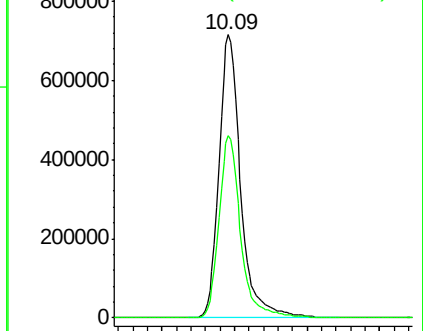
Tgt Ion: 98 Resp: 1480383

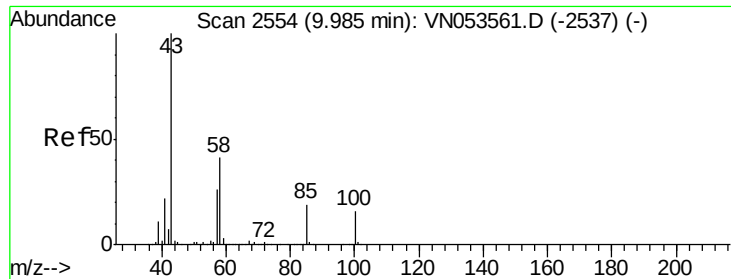
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.4	77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

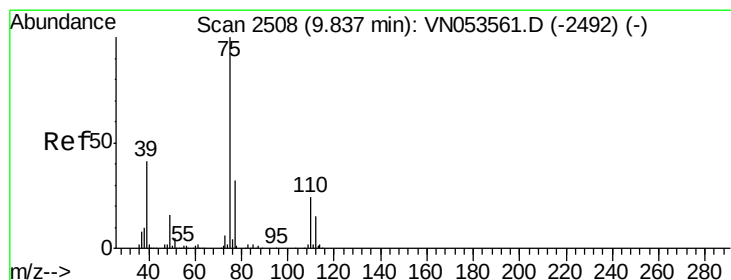
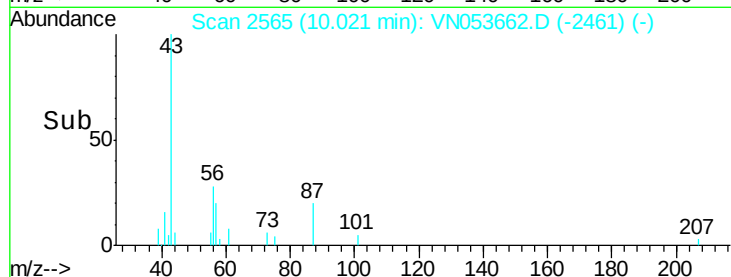
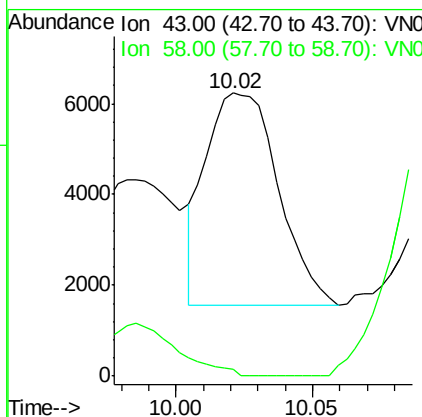
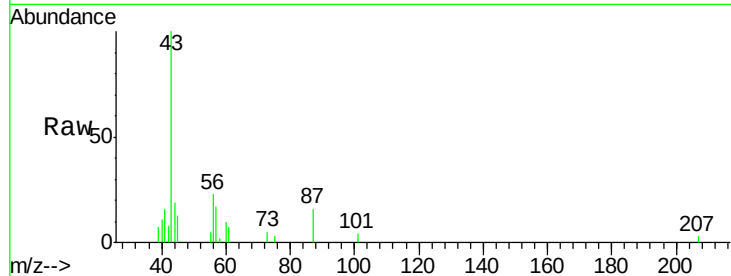
Ion 100.00 (99.70 to 100.70): VN0





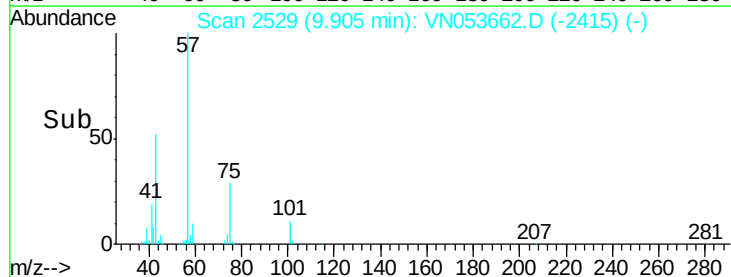
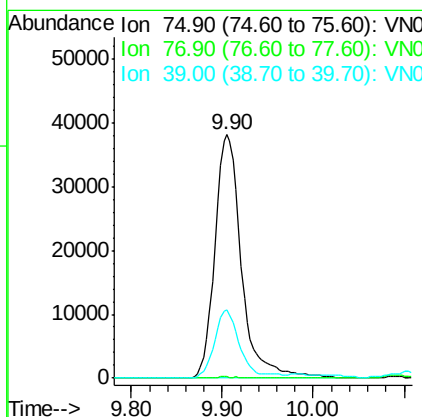
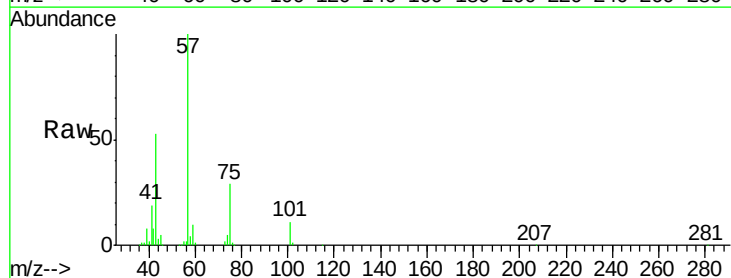
#51
4-Methyl-2-Pentanone
Concen: 1.464 ug/l
RT: 10.02 min Scan# 2565
Delta R.T. 0.04 min
Lab File: VN053662.D
Acq: 7 Feb 2019 18:07

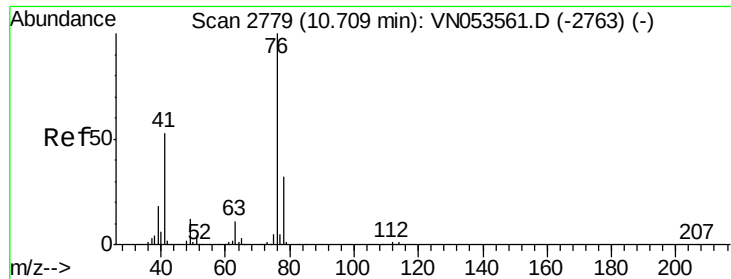
Tot Ion: 43 Resp: 8632
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



#54
cis-1,3-Dichloropropene
Concen: 5.930 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.07 min
Lab File: VN053662.D
Acq: 7 Feb 2019 18:07

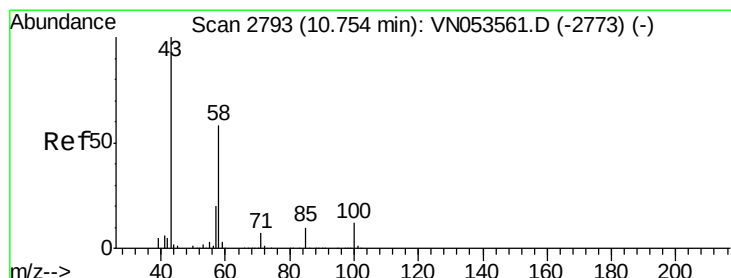
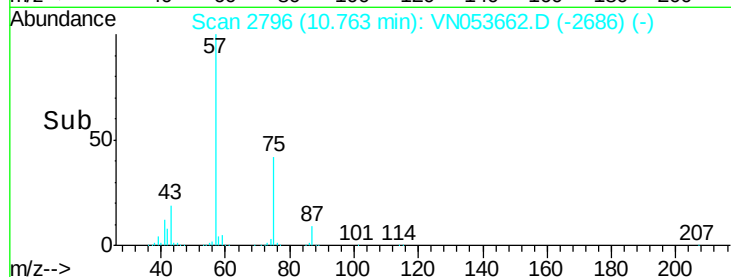
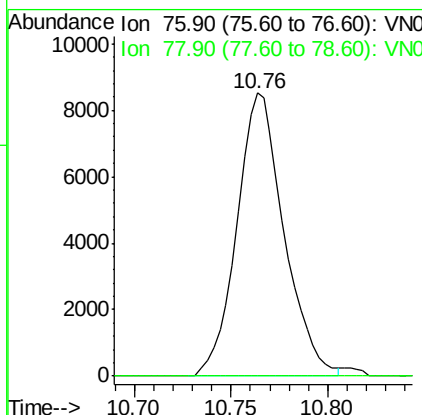
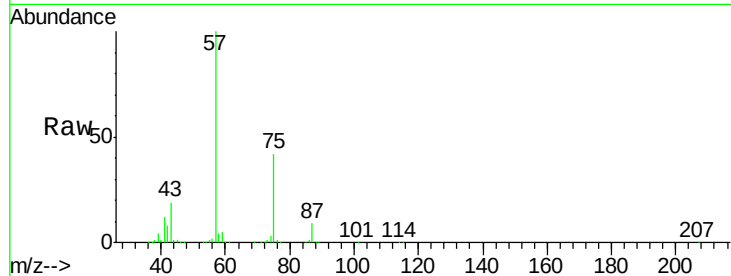
Tgt Ion: 75 Resp: 77397
Ion Ratio Lower Upper
75 100
77 0.5 25.8 38.6#
39 28.0 33.4 50.0#





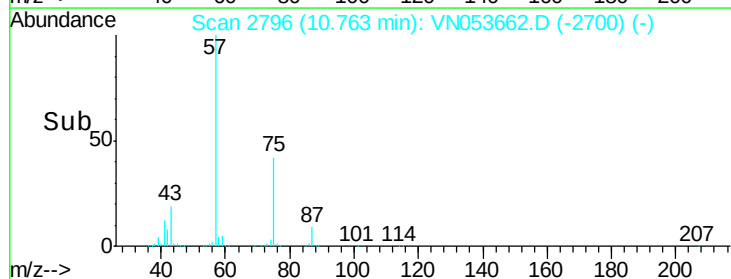
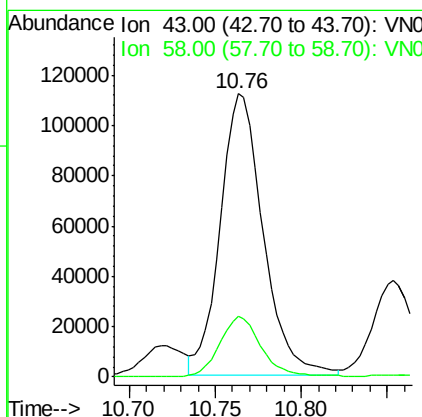
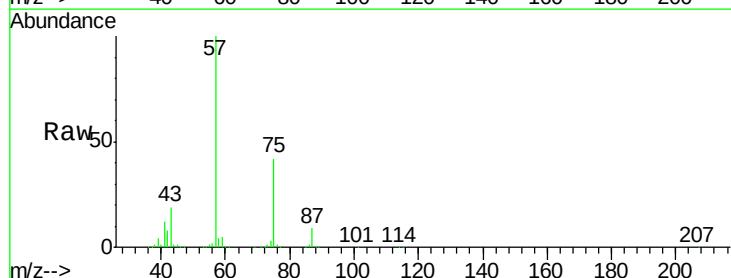
#57
 1,3-Dichloropropane
 Concen: 1.150 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053662.D
 Acq: 7 Feb 2019 18:07

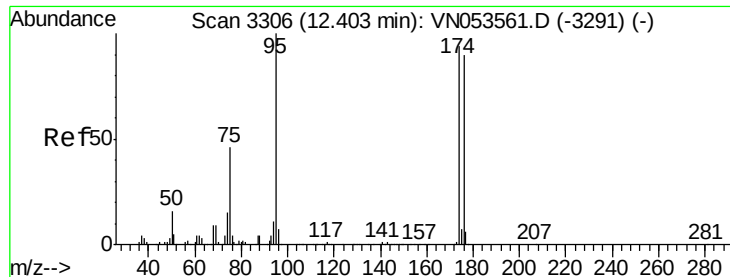
Tot Ion: 76 Resp: 14419
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 48.645 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053662.D
 Acq: 7 Feb 2019 18:07

Tgt Ion: 43 Resp: 194736
 Ion Ratio Lower Upper
 43 100
 58 21.0 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

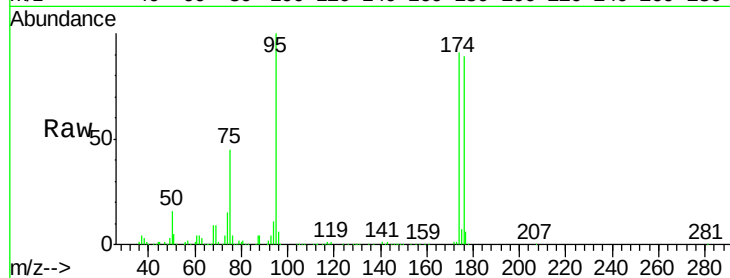
Tot Ion: 95 Resp: 487169

Ion Ratio Lower Upper

95 100

174 93.2 0.0 183.2

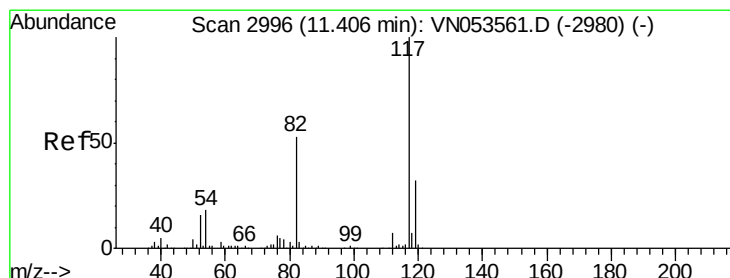
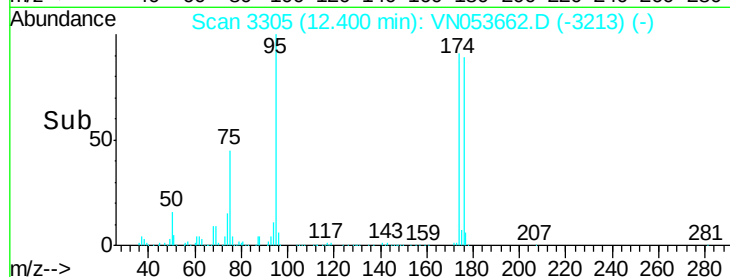
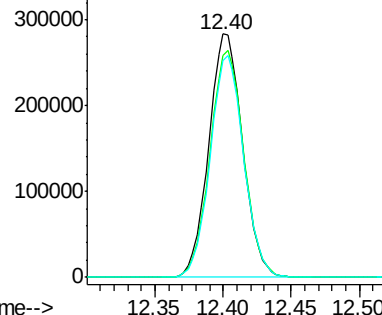
176 90.3 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

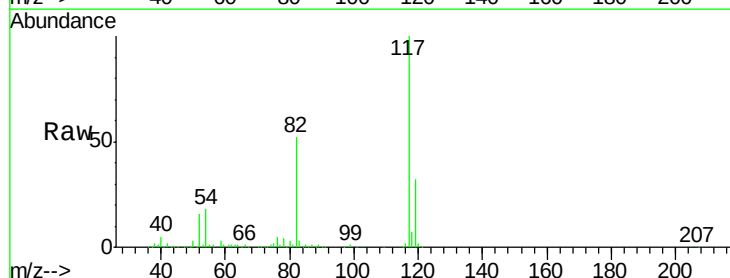
Tgt Ion: 117 Resp: 1123487

Ion Ratio Lower Upper

117 100

82 51.7 42.9 64.3

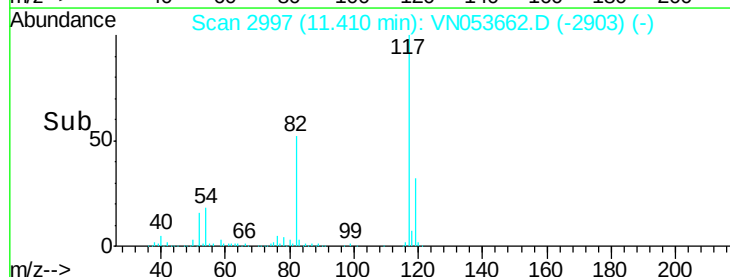
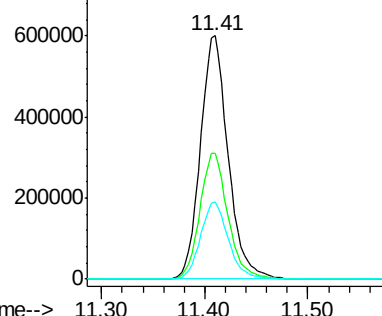
119 31.8 26.0 39.0

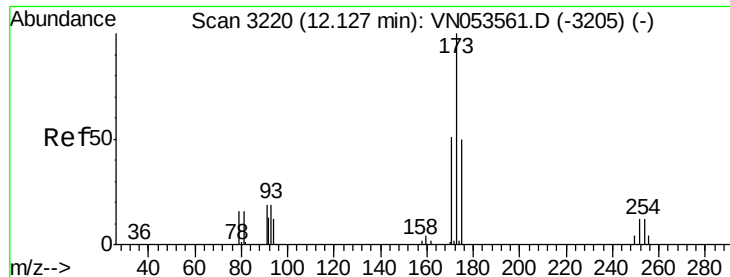


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.252 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

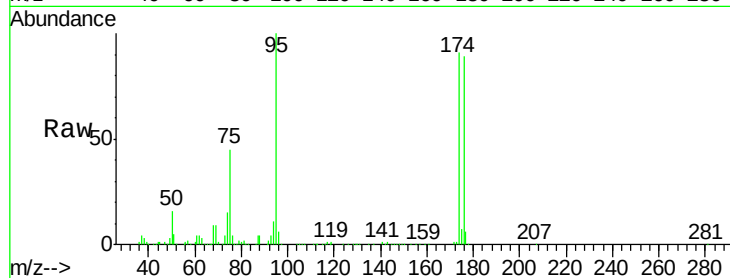
Tot Ion:173 Resp: 1441

Ion Ratio Lower Upper

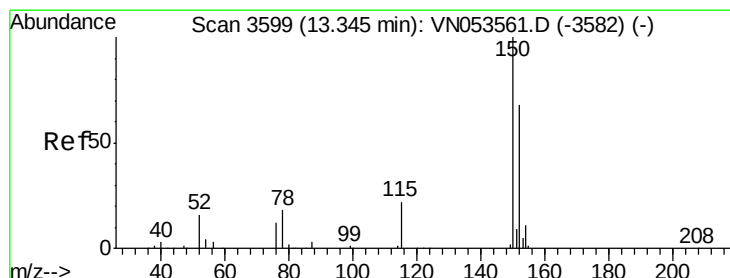
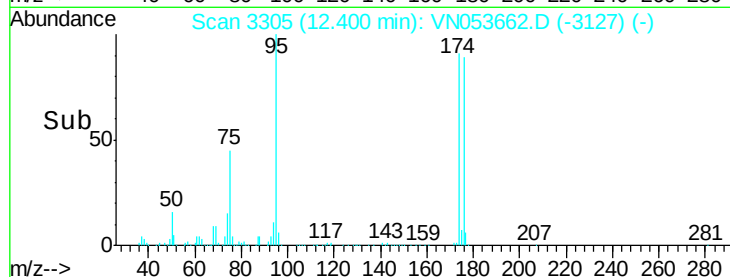
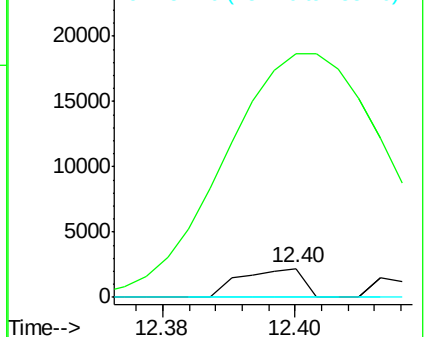
173 100

175 1956.3 24.6 74.0#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

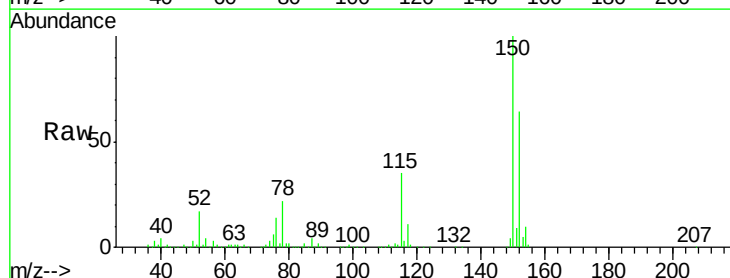
Tgt Ion:152 Resp: 460777

Ion Ratio Lower Upper

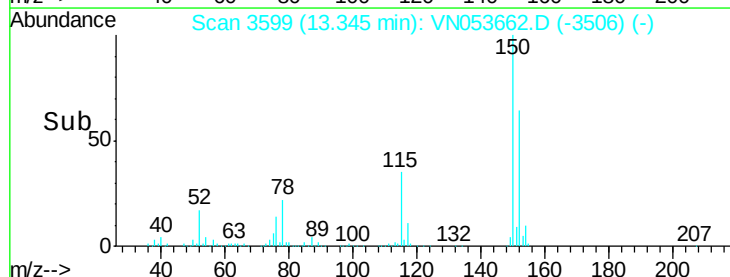
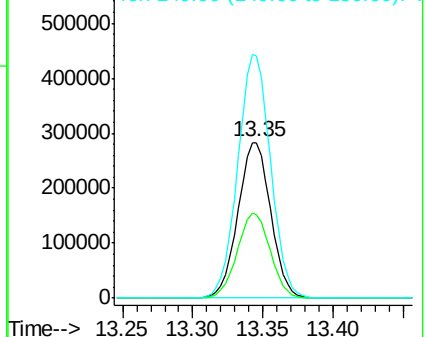
152 100

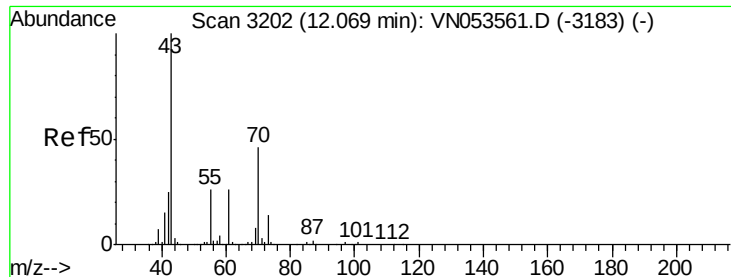
115 54.8 27.8 83.4

150 156.9 0.0 349.0



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





#74

N-amyl acetate

Concen: 2.595 ug/l

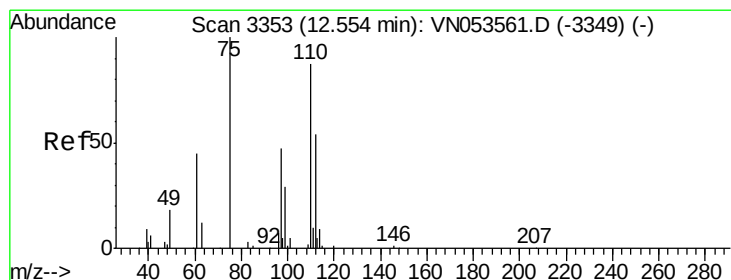
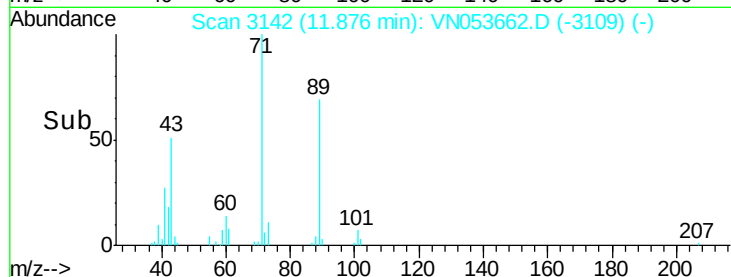
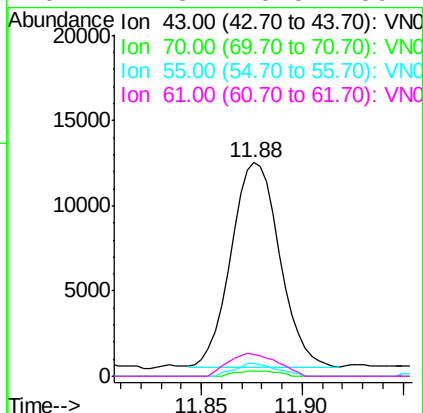
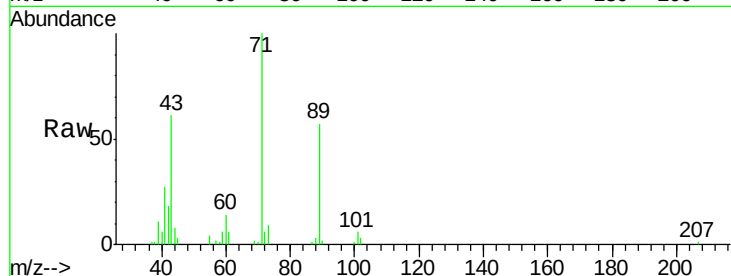
RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

Tot Ion:	43	Resp:	20211
Ion	Ratio	Lower	Upper
43	100		
70	2.4	35.4	53.2#
55	5.5	20.9	31.3#
61	11.3	20.5	30.7#



#76

1,2,3-Trichloropropane

Concen: 37.638 ug/l

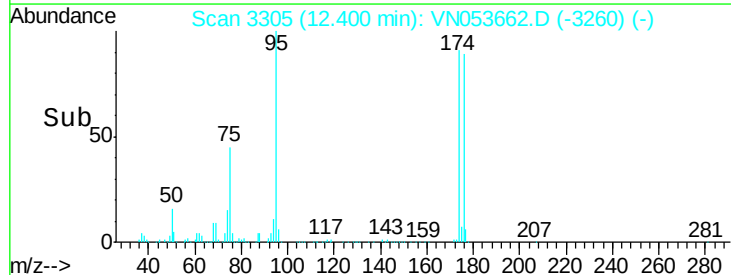
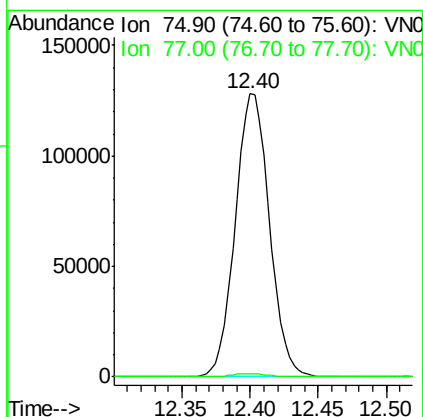
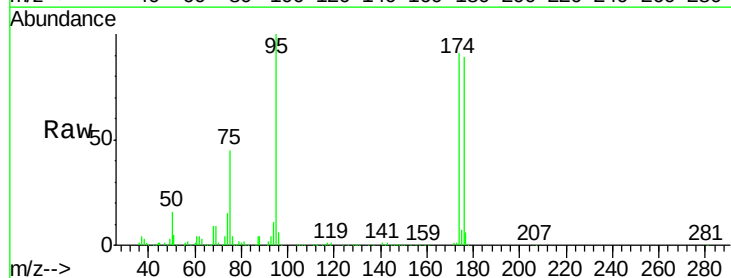
RT: 12.40 min Scan# 3305

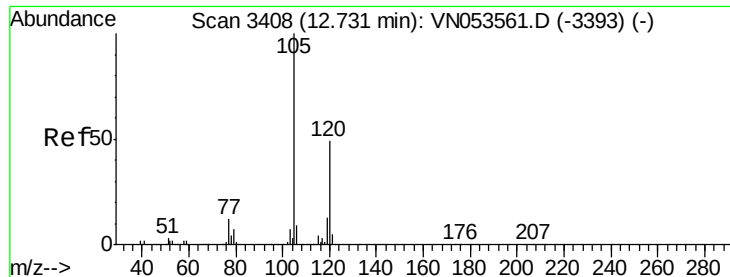
Delta R.T. -0.15 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

Tgt Ion:	75	Resp:	222754
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.280 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053662.D

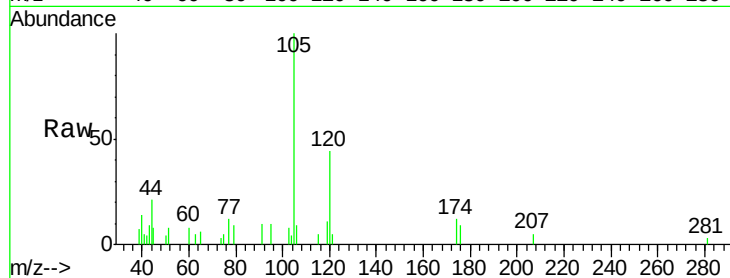
Acq: 7 Feb 2019 18:07

Tot Ion: 105 Resp: 7527

Ion Ratio Lower Upper

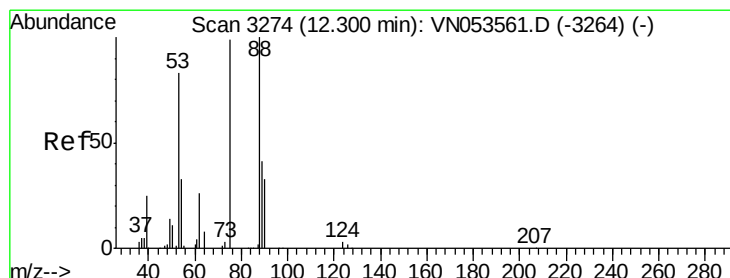
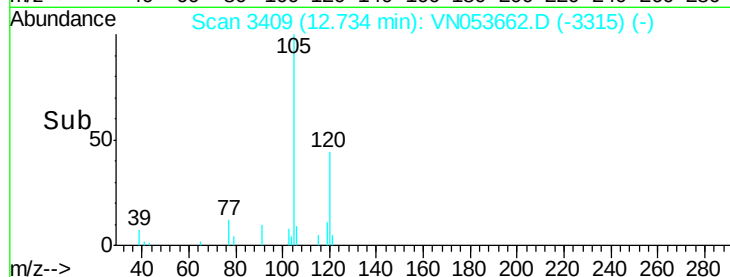
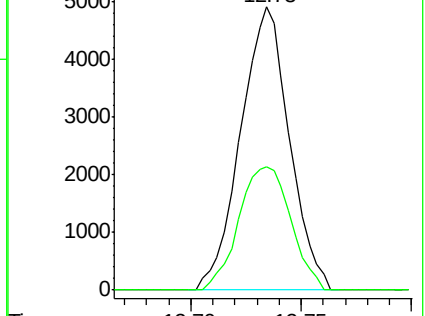
105 100

120 46.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.834 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053662.D

Acq: 7 Feb 2019 18:07

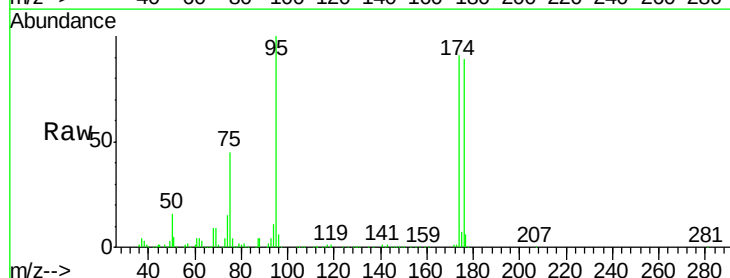
Tgt Ion: 75 Resp: 222754

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

