

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053652.D
 Acq On : 7 Feb 2019 13:39
 Operator : JC/SP
 Sample : PB116887ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Quant Time: Feb 09 00:28:29 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	798332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1288817	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1180465	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	489822	50.00	ug/l	0.00

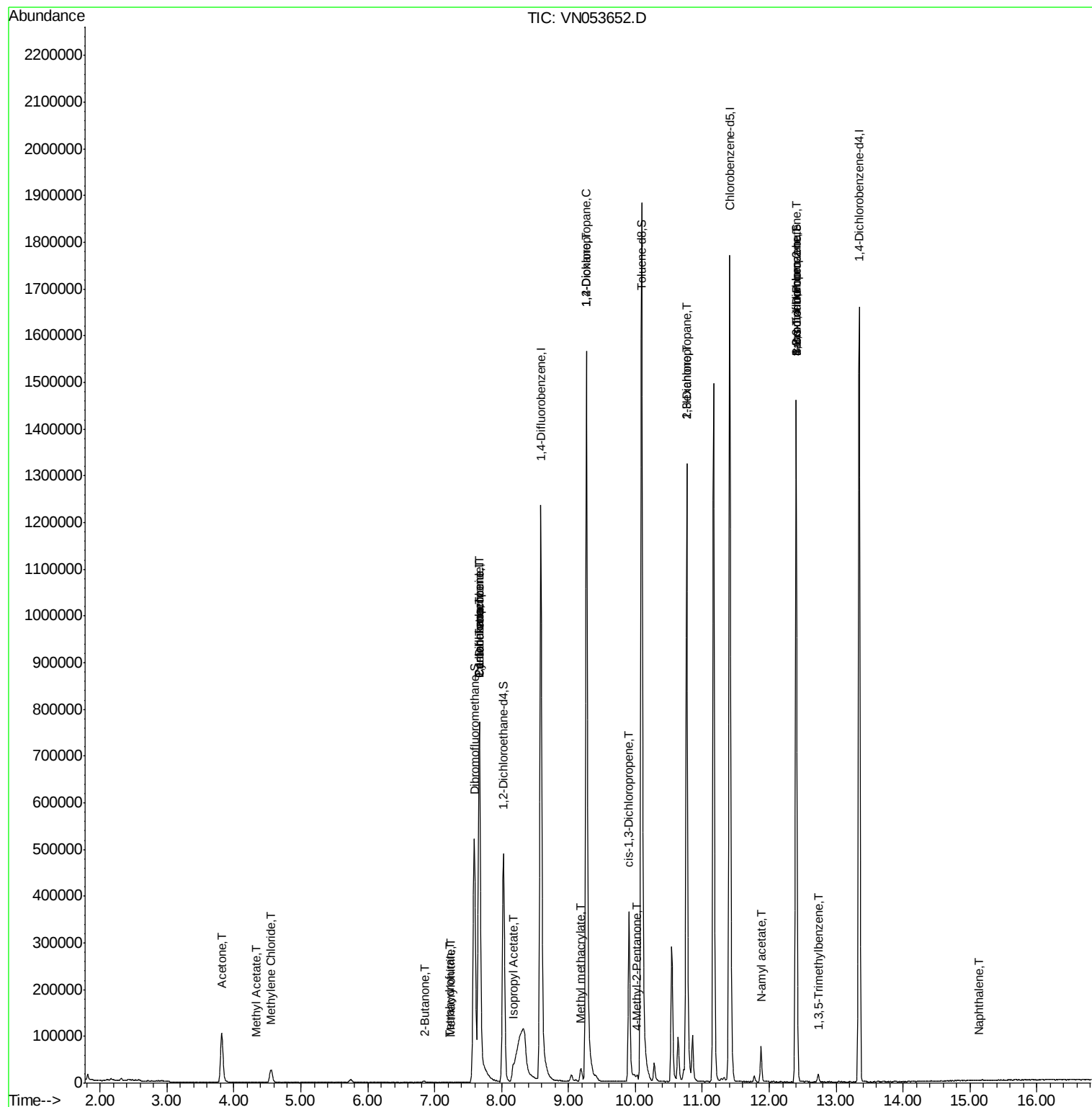
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	418523	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
35) Dibromofluoromethane	7.59	113	405453	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
50) Toluene-d8	10.09	98	1553876	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	
62) 4-Bromofluorobenzene	12.40	95	510777	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	

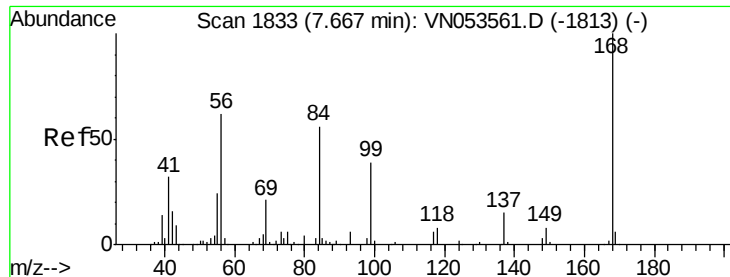
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	182238	88.711	ug/l	99
18) Methyl Acetate	4.33	43	1894	0.311	ug/l #	69
20) Methylene Chloride	4.55	84	21139	2.453	ug/l	98
25) 2-Butanone	6.85	43	5088	1.737	ug/l #	88
29) Tetrahydrofuran	7.22	42	1058	0.562	ug/l #	75
31) Cyclohexane	7.67	56	12024	0.721	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47285	4.070	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61476	5.253	ug/l #	16
41) Methacrylonitrile	7.23	41	938	0.259	ug/l #	26
43) Isopropyl Acetate	8.17	43	36717	2.930	ug/l #	82
45) 1,2-Dichloropropane	9.27	63	1983	0.216	ug/l #	43
48) Methyl methacrylate	9.18	41	11335	1.895	ug/l #	12
49) 1,4-Dioxane	9.27	88	138	40.628	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8994	1.461	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	80219	5.886	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	15640	1.194	ug/l #	43
59) 2-Hexanone	10.77	43	196721	47.059	ug/l #	50
71) Bromoform	12.40	173	3455	0.575	ug/l #	1
74) N-amyl acetate	11.88	43	22456	2.712	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	239201	38.020	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8606	0.301	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	239201	106.909	ug/l #	15
95) Naphthalene	15.14	128	302	1.750	ug/l #	69

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053652.D

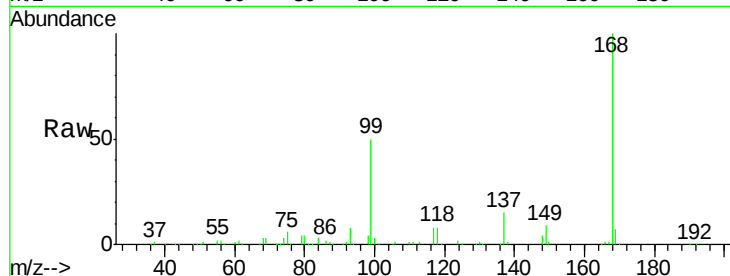
Acq: 7 Feb 2019 13:39

Tot Ion:168 Resp: 798332

Ion Ratio Lower Upper

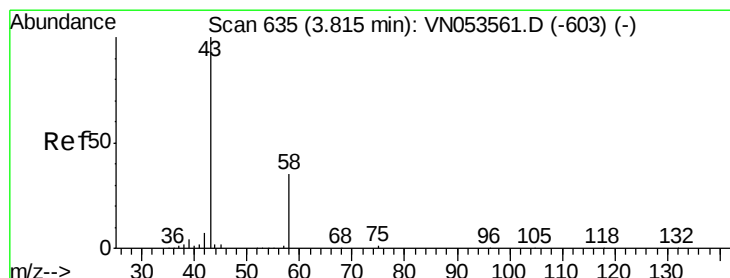
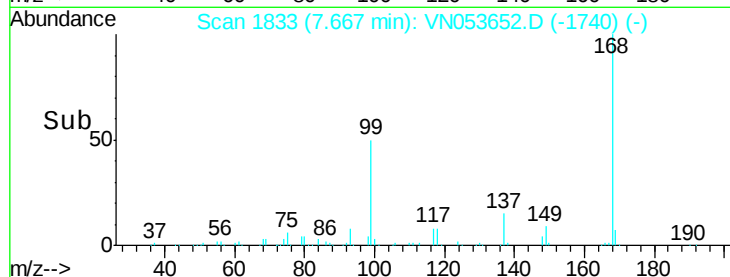
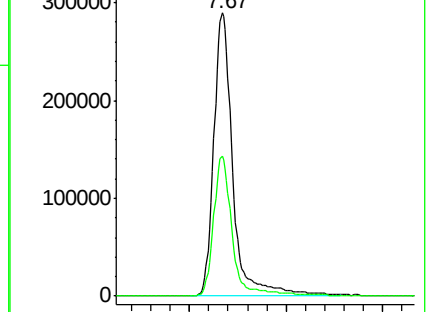
168 100

99 49.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 88.711 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053652.D

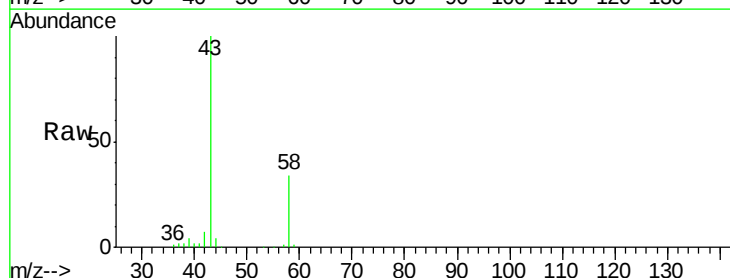
Acq: 7 Feb 2019 13:39

Tgt Ion: 43 Resp: 182238

Ion Ratio Lower Upper

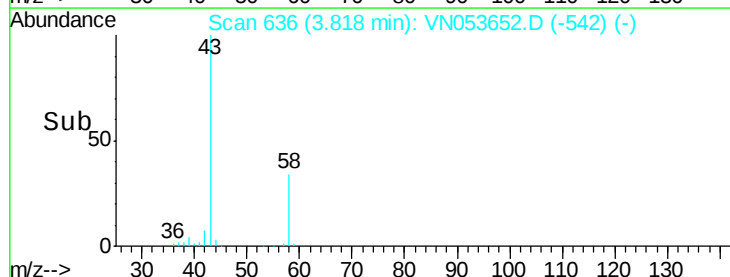
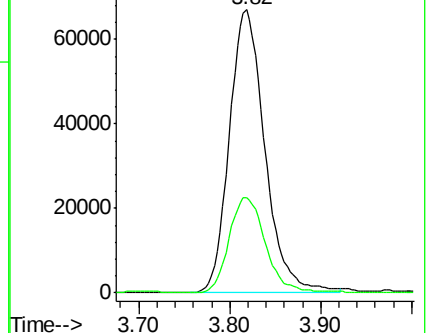
43 100

58 33.6 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

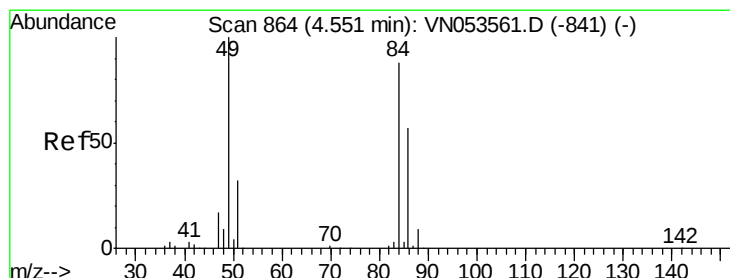
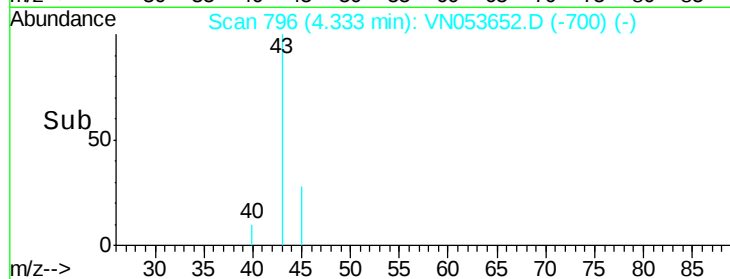
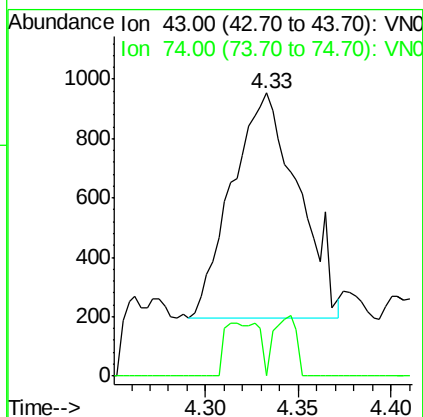
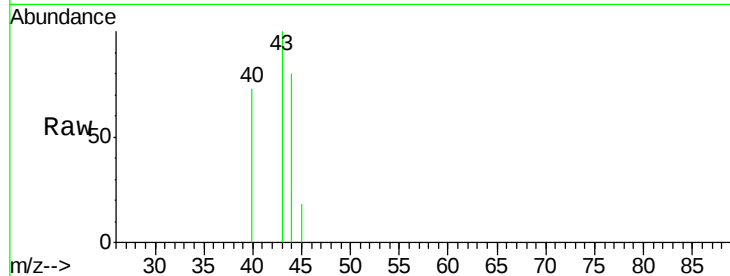
Ion 58.00 (57.70 to 58.70): VNO





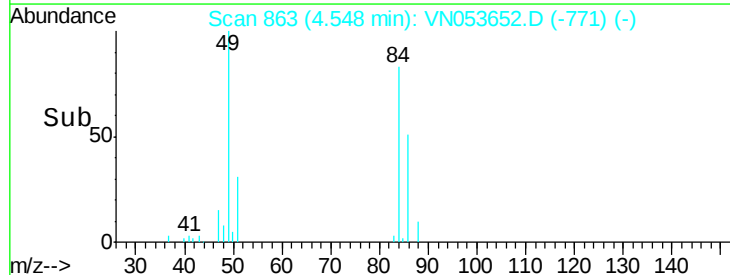
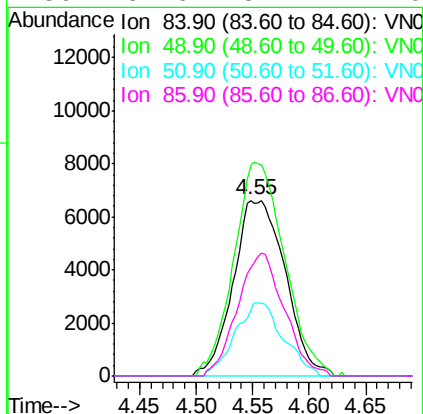
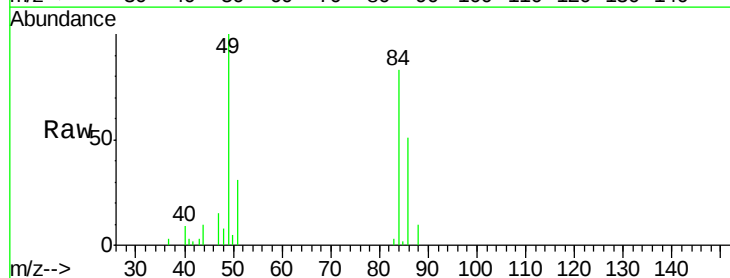
#18
Methyl Acetate
Concen: 0.311 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

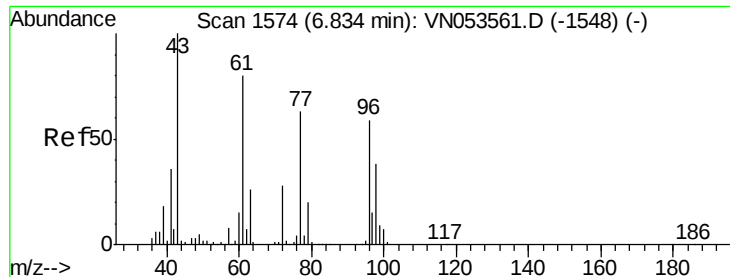
Tot Ion: 43 Resp: 1894
Ion Ratio Lower Upper
43 100
74 8.9 19.4 29.2#



#20
Methylene Chloride
Concen: 2.453 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

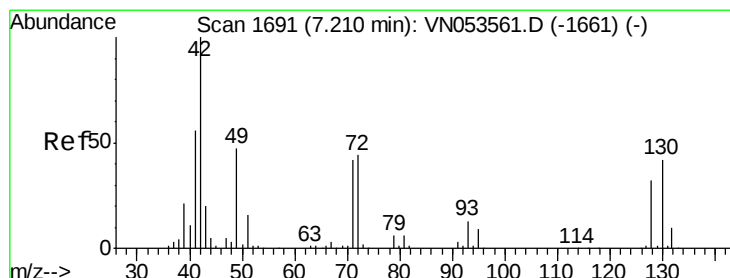
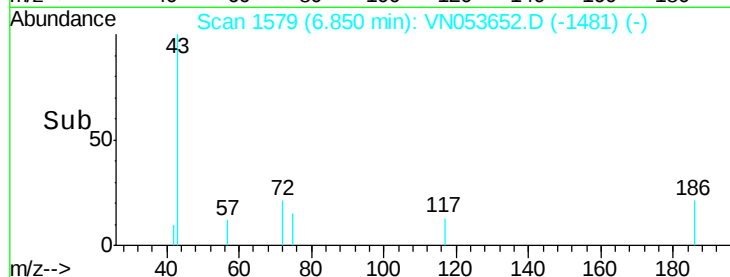
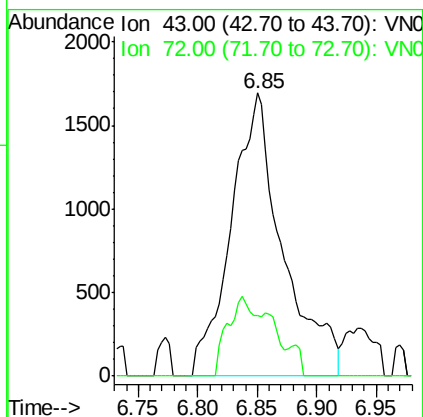
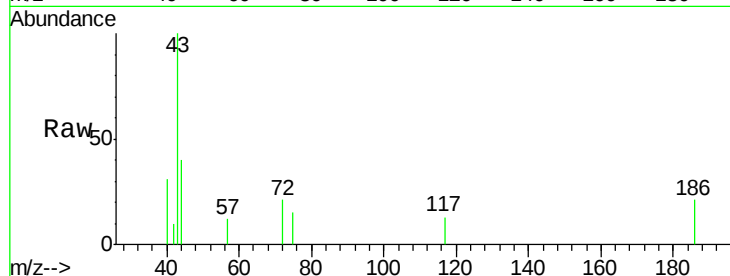
Tgt Ion: 84 Resp: 21139
Ion Ratio Lower Upper
84 100
49 119.9 94.3 141.5
51 37.7 29.4 44.2
86 61.6 51.4 77.0





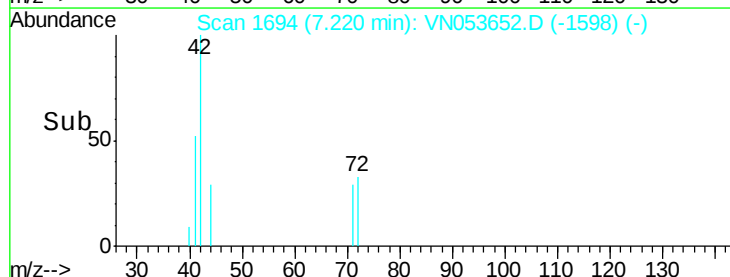
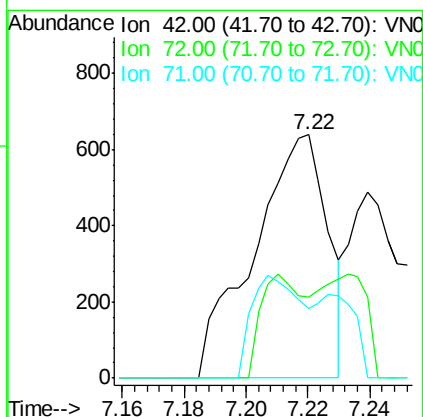
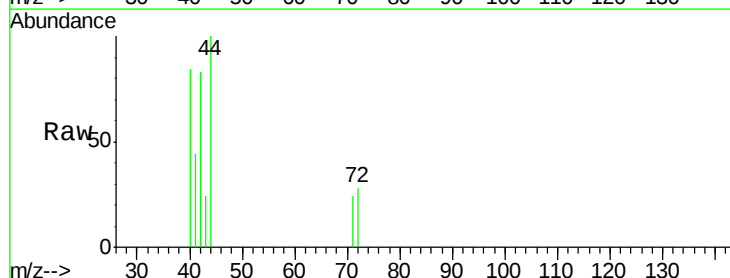
#25
 2-Butanone
 Concen: 1.737 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.02 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

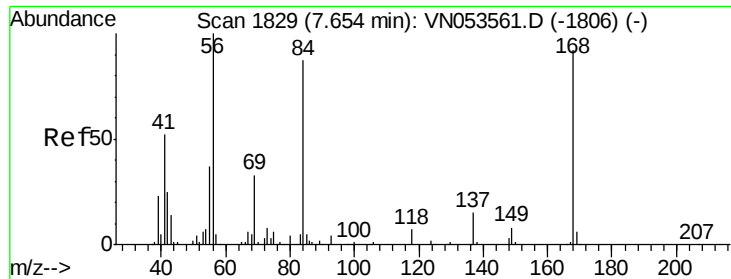
Tot Ion: 43 Resp: 5088
 Ion Ratio Lower Upper
 43 100
 72 21.4 22.0 33.0#



#29
 Tetrahydrofuran
 Concen: 0.562 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

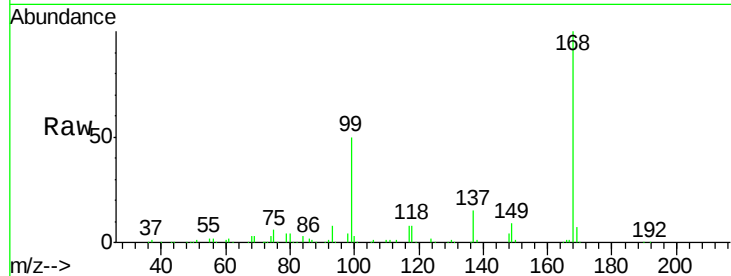
Tgt Ion: 42 Resp: 1058
 Ion Ratio Lower Upper
 42 100
 72 25.0 35.2 52.8#
 71 28.4 33.0 49.4#



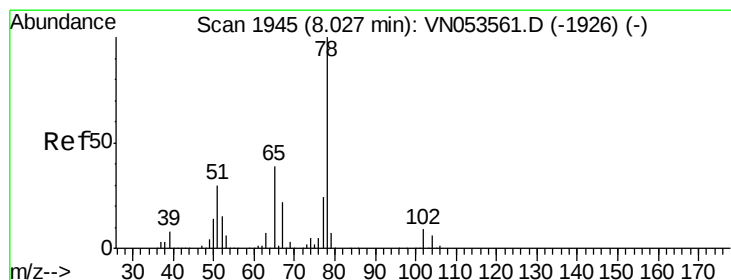
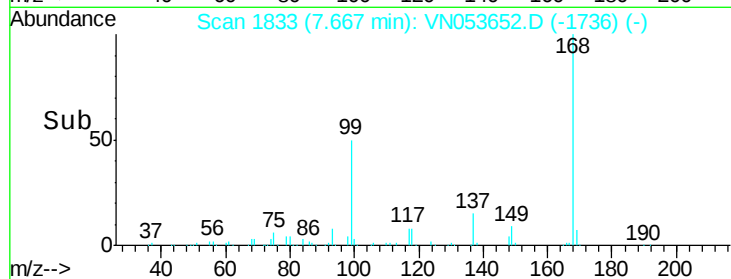
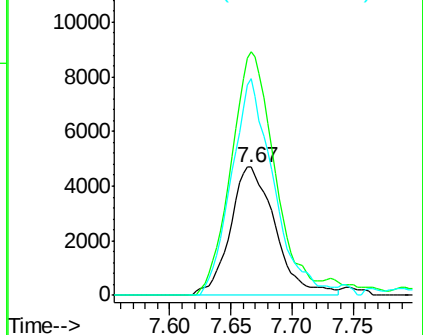


#31
Cvclohexane
Concen: 0.721 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

Tot Ion: 56 Resp: 12024
Ion Ratio Lower Upper
56 100
69 189.9 26.4 39.6#
84 169.5 67.9 101.9#

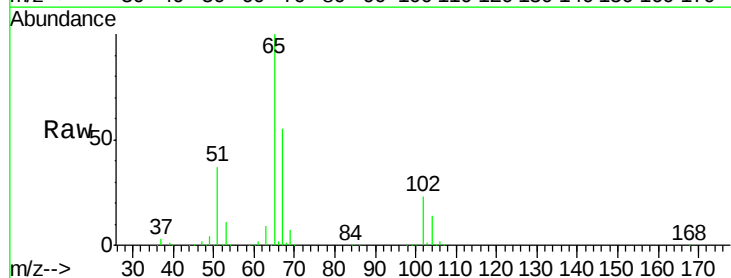


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

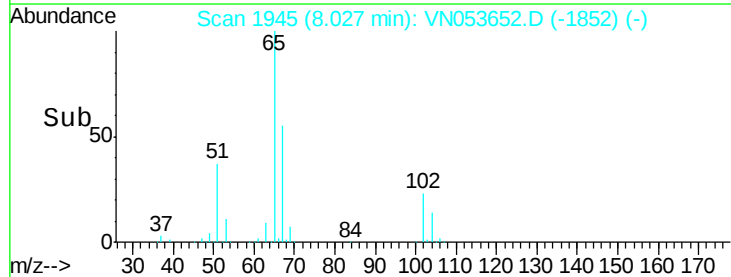
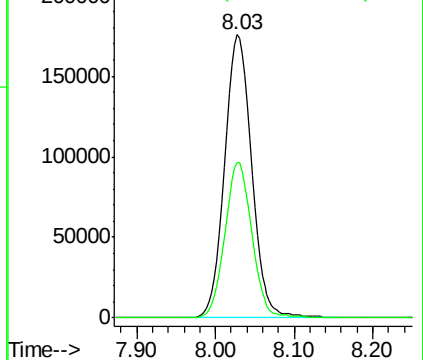


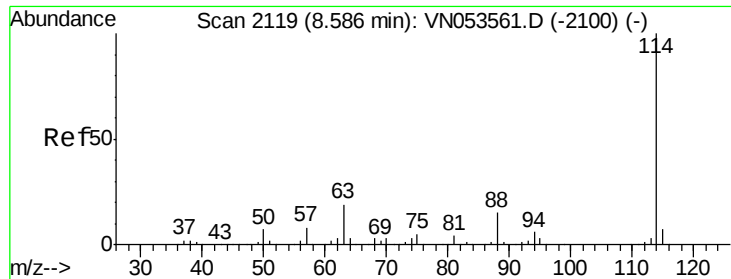
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

Tgt Ion: 65 Resp: 418523
Ion Ratio Lower Upper
65 100
67 54.6 0.0 111.2



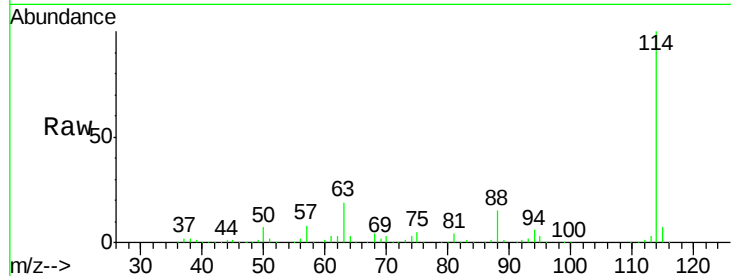
Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0



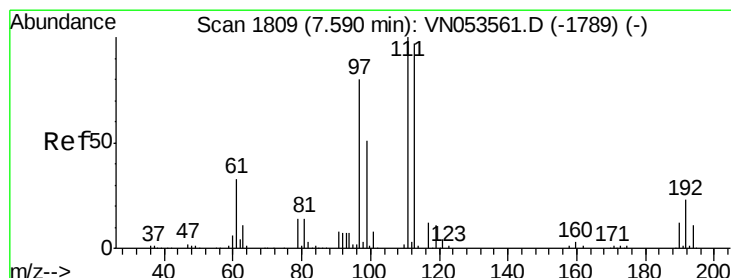
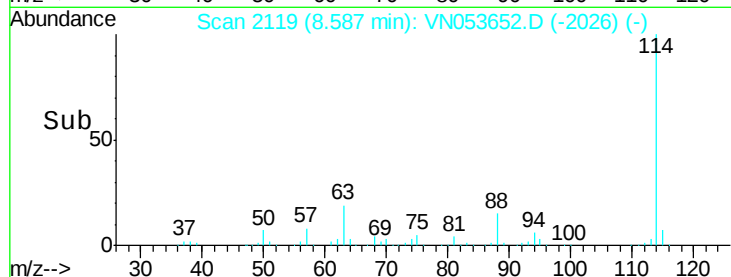
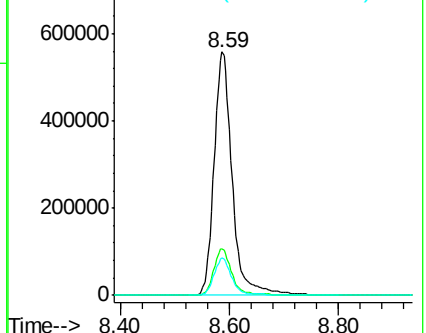


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

Tot Ion:114 Resp: 1288817
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.6
 88 15.3 0.0 30.4

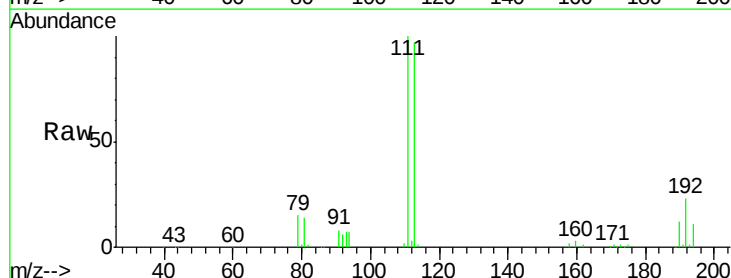


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

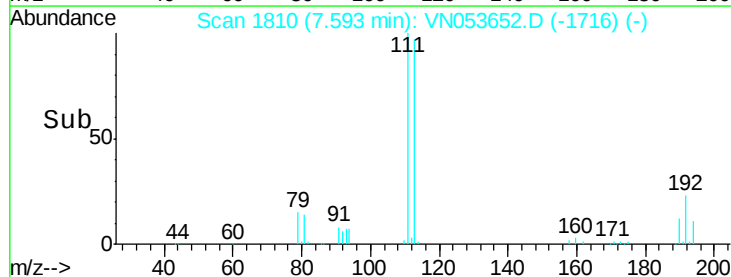
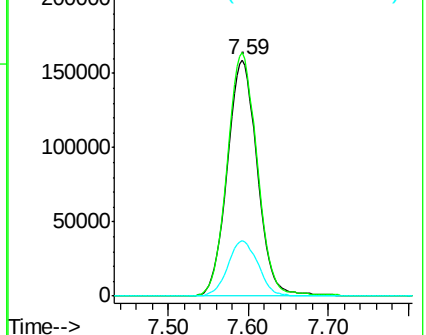


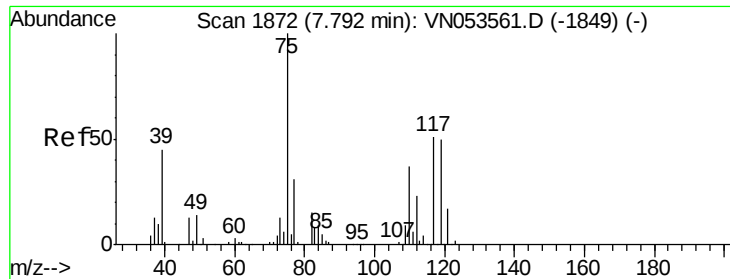
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

Tgt Ion:113 Resp: 405453
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.1 121.7
 192 23.7 18.2 27.2



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: 4.070 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053652.D

Acq: 7 Feb 2019 13:39

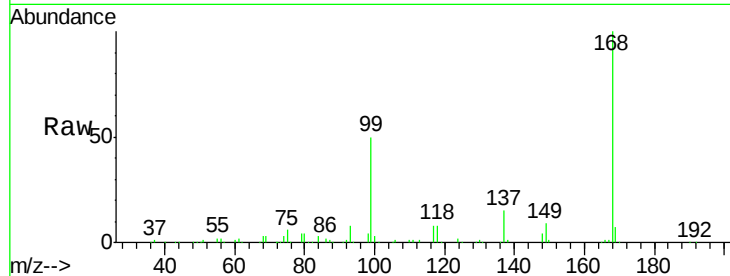
Tot Ion: 75 Resp: 47285

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.3#

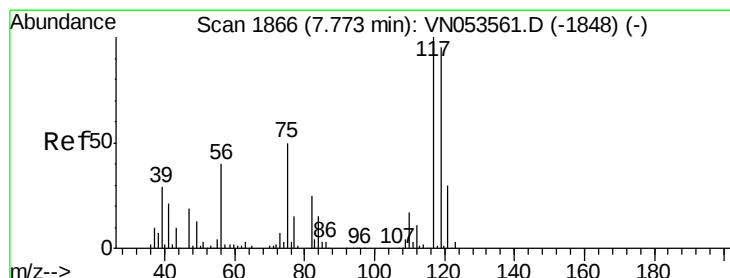
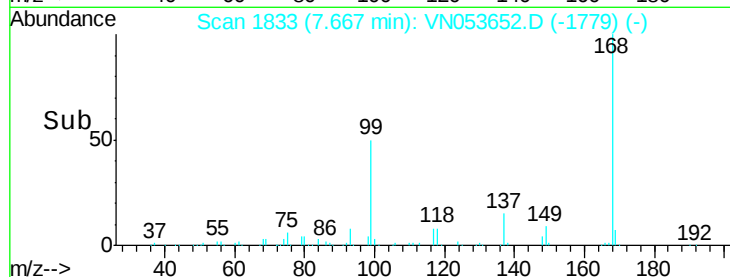
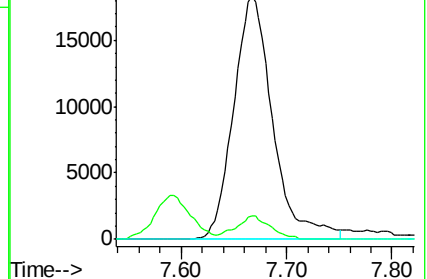
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053561.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053561.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 5.253 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053652.D

Acq: 7 Feb 2019 13:39

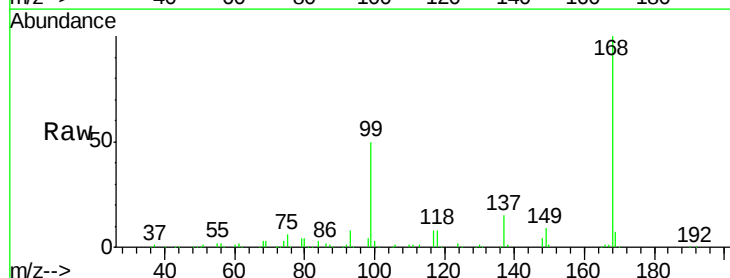
Tgt Ion: 117 Resp: 61476

Ion Ratio Lower Upper

117 100

119 5.8 77.2 115.8#

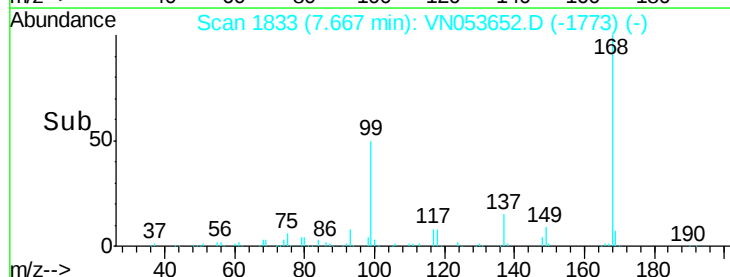
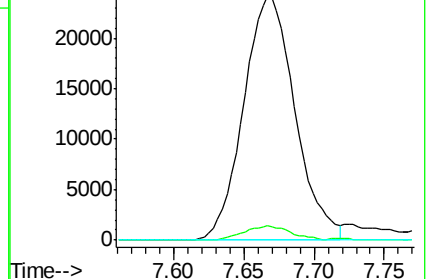
121 0.0 24.6 37.0#

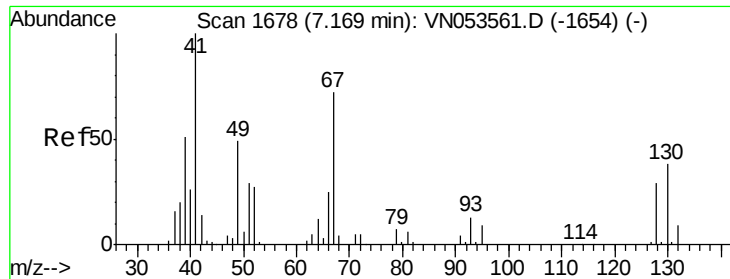


Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN053561.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN053561.D (-1848) (-)





#41

Methacrylonitrile

Concen: 0.259 ug/l

RT: 7.23 min Scan# 1696

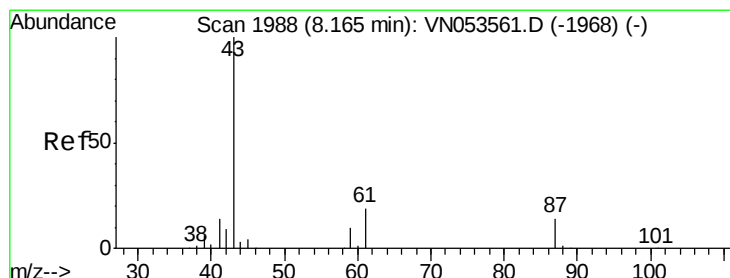
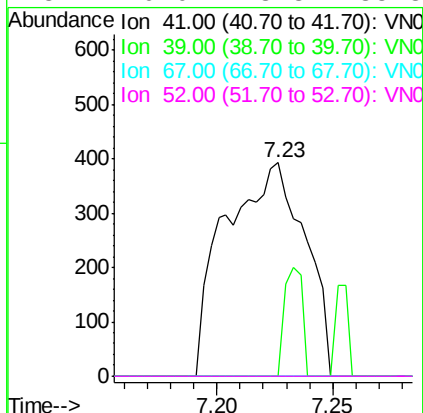
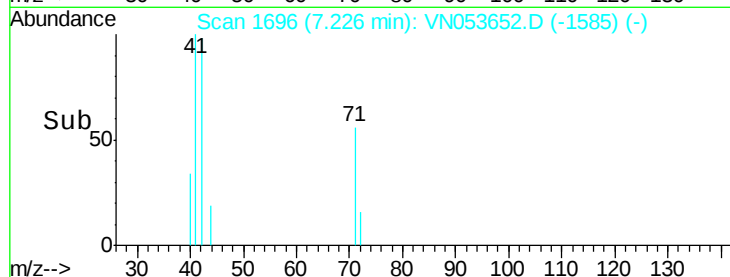
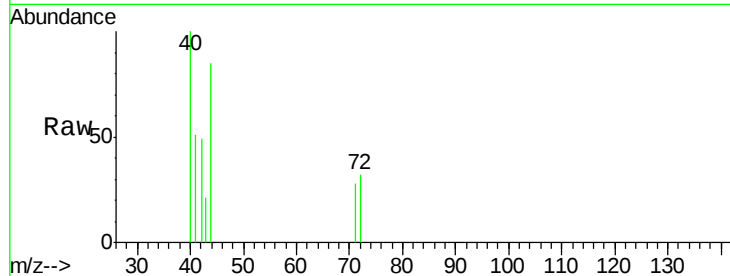
Delta R.T. 0.06 min

Lab File: VN053652.D

Acq: 7 Feb 2019 13:39

Tot Ion: 41 Resp: 938

Ion	Ratio	Lower	Upper
41	100		
39	11.4	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#43

Isopropyl Acetate

Concen: 2.930 ug/l

RT: 8.17 min Scan# 1990

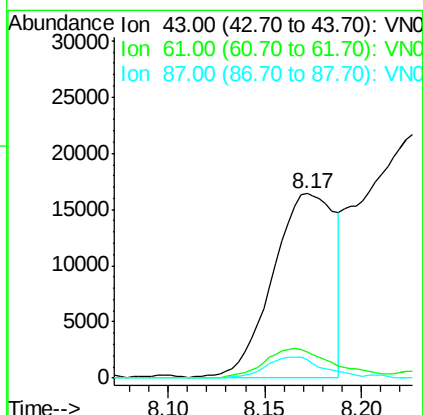
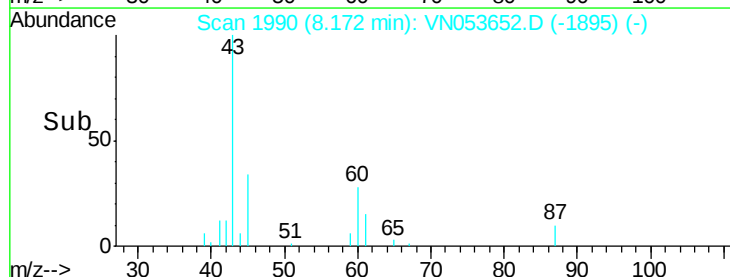
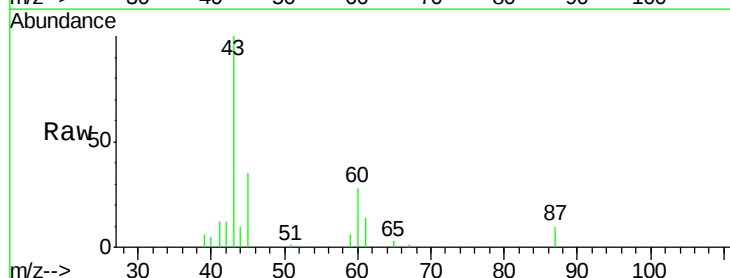
Delta R.T. 0.01 min

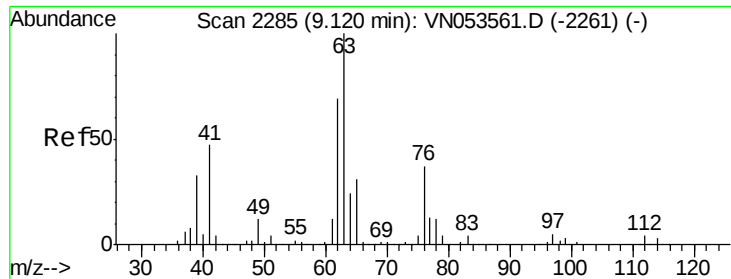
Lab File: VN053652.D

Acq: 7 Feb 2019 13:39

Tgt Ion: 43 Resp: 36717

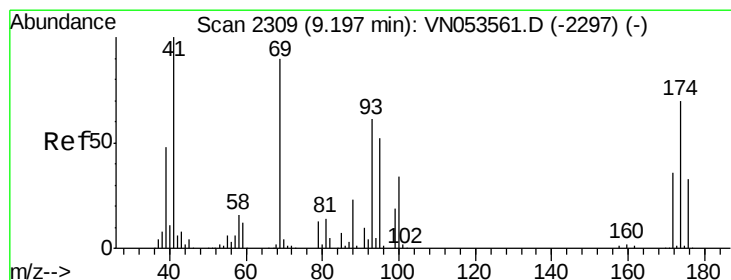
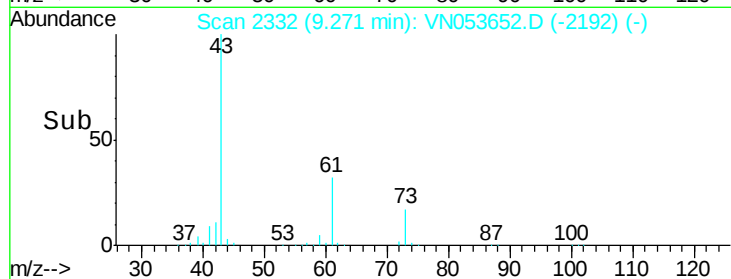
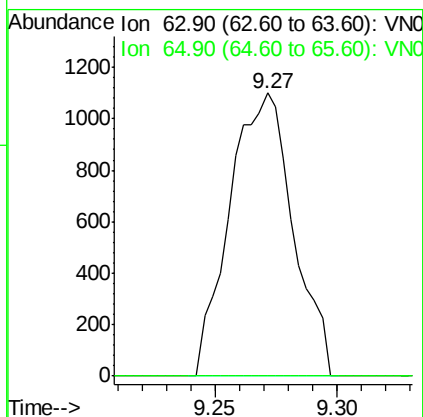
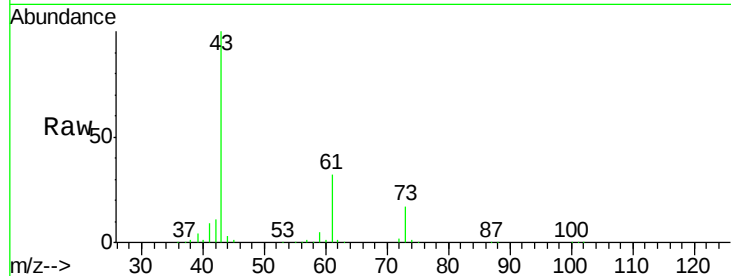
Ion	Ratio	Lower	Upper
43	100		
61	18.0	23.9	35.9#
87	10.4	11.0	16.6#





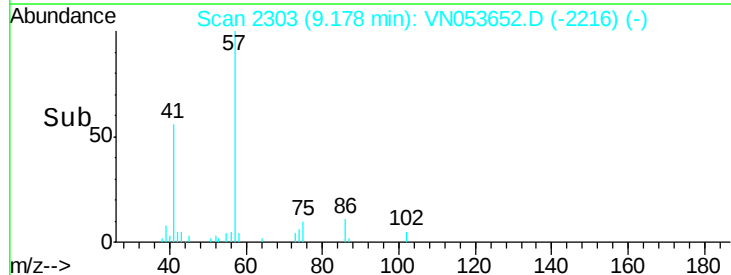
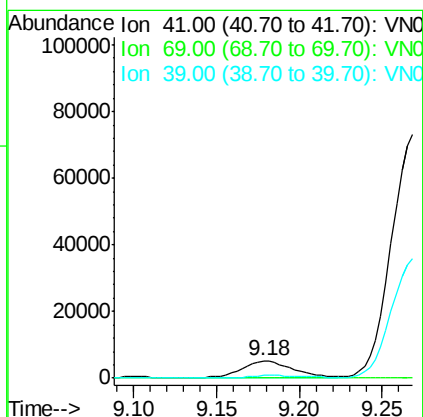
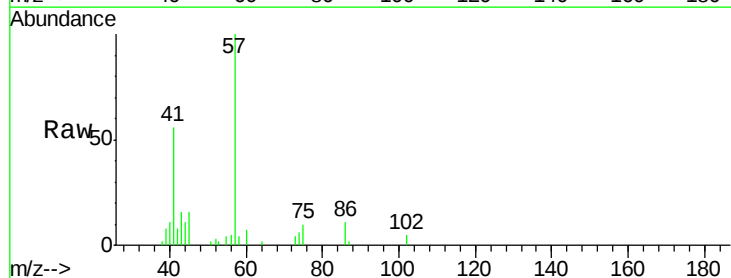
#45
 1,2-Dichloropropane
 Concen: 0.216 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

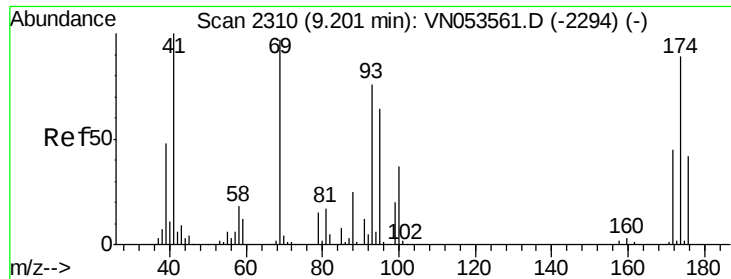
Tot Ion: 63 Resp: 1983
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.895 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

Tgt Ion: 41 Resp: 11335
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#49

1,4-Dioxane

Concen: 40.628 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN053652.D

Acq: 7 Feb 2019 13:39

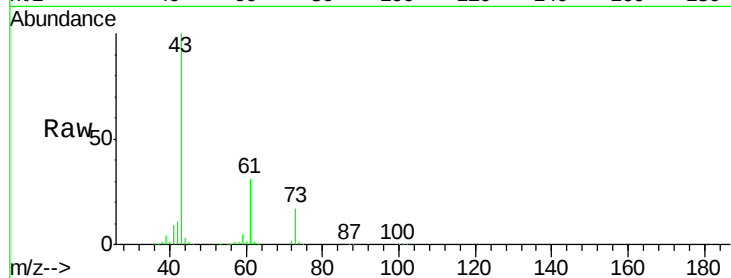
Tot Ion: 88 Resp: 138

Ion Ratio Lower Upper

88 100

43 1223669.6 27.8 41.6#

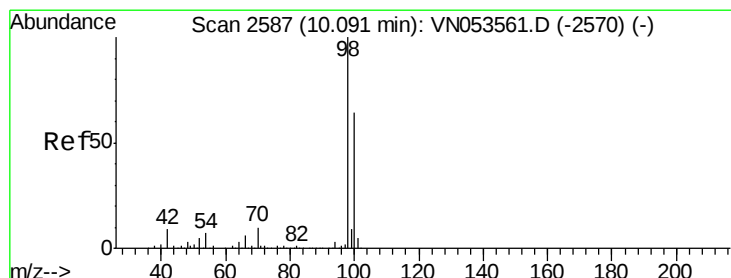
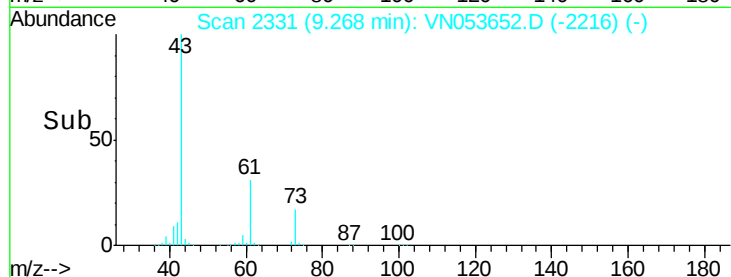
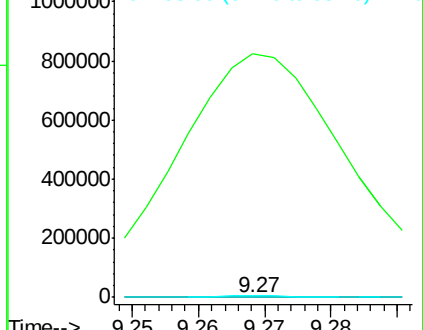
58 5739.1 56.5 84.7#



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: 40.628 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053652.D

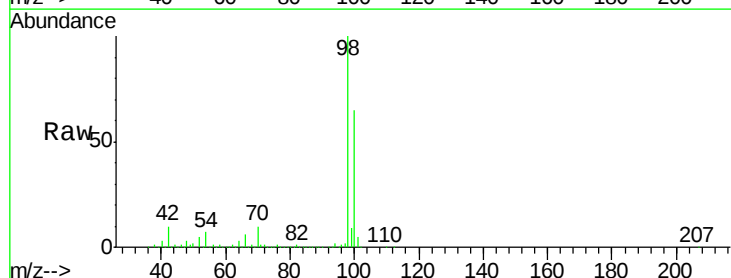
Acq: 7 Feb 2019 13:39

Tgt Ion: 98 Resp: 1553876

Ion Ratio Lower Upper

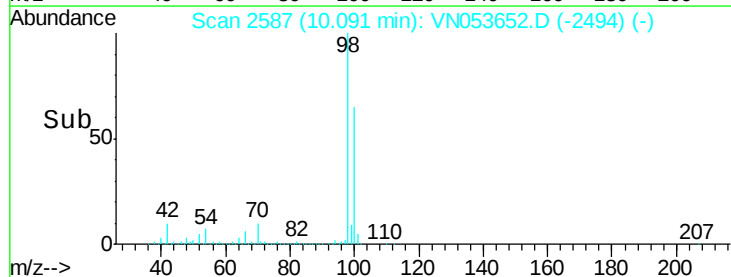
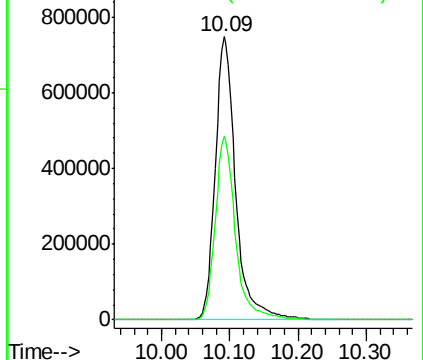
98 100

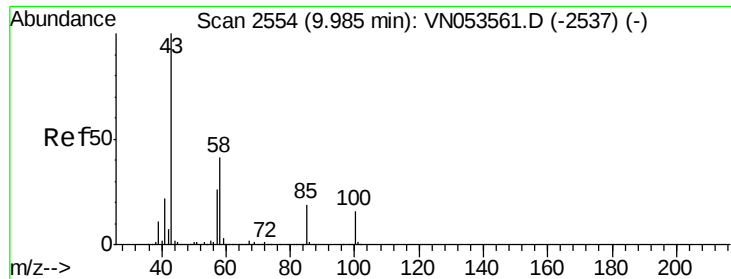
100 64.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

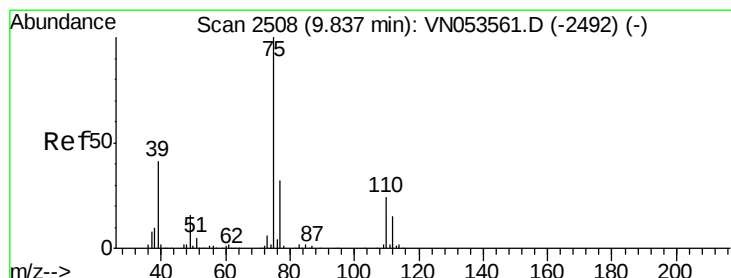
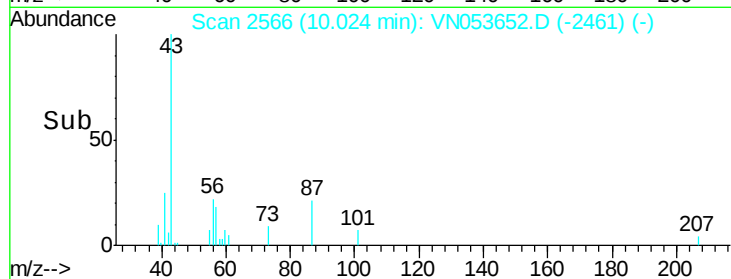
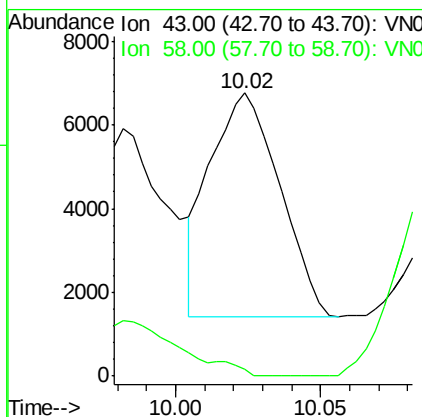
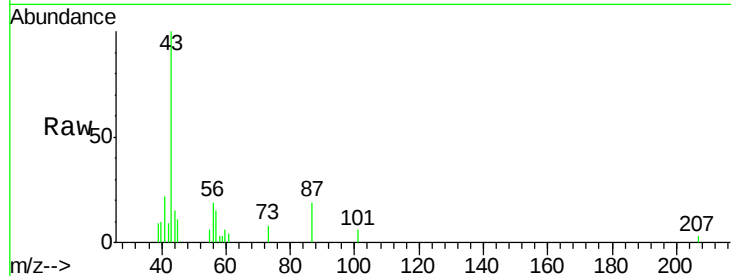
Ion 100.00 (99.70 to 100.70): VN0





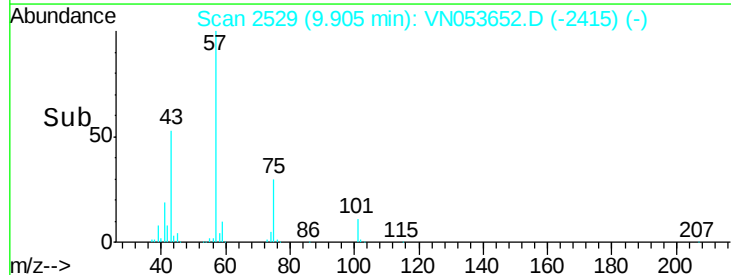
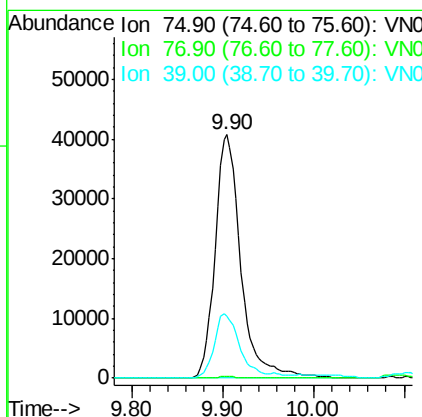
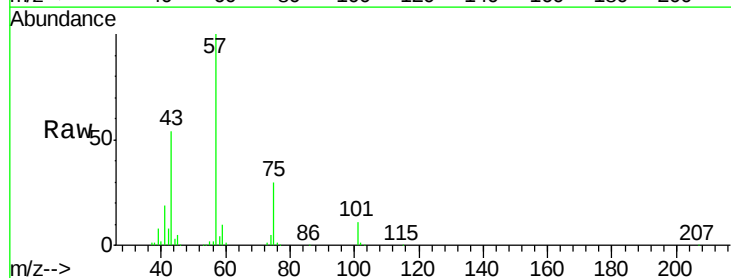
#51
 4-Methyl-2-Pentanone
 Concen: 1.461 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

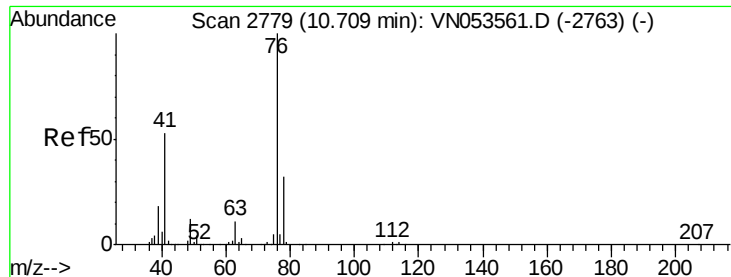
Tot Ion: 43 Resp: 8994
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.8 49.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.886 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

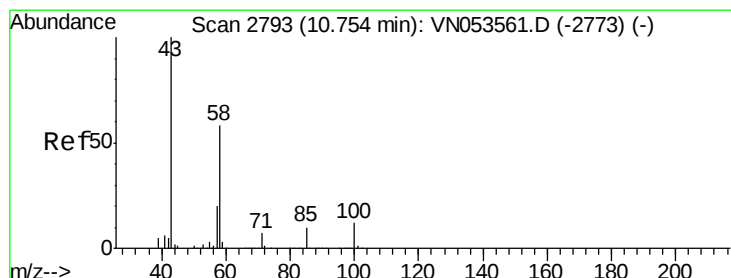
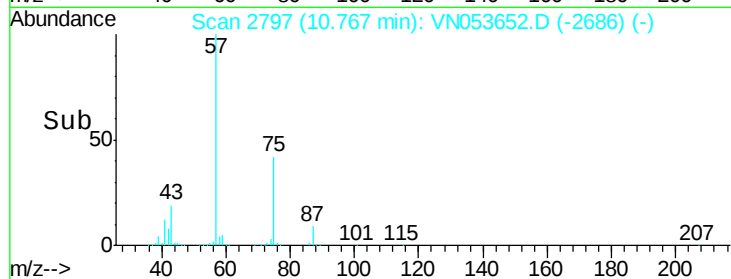
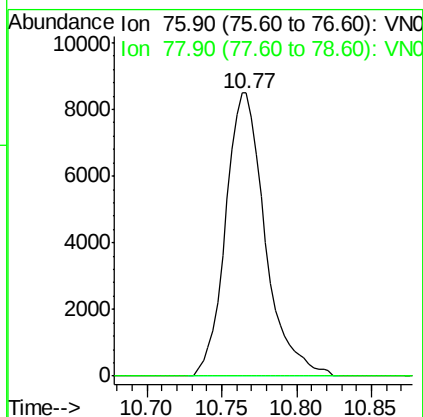
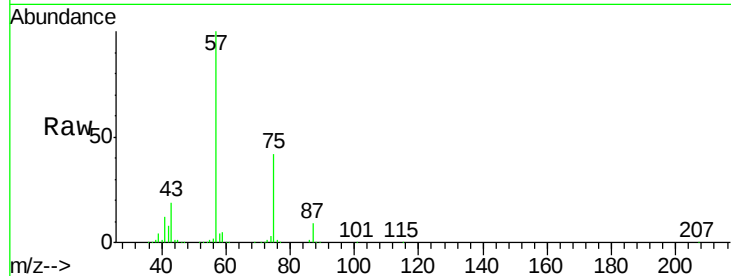
Tgt Ion: 75 Resp: 80219
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 25.5 33.4 50.0#





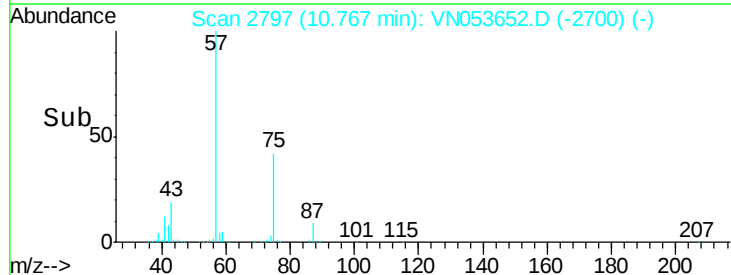
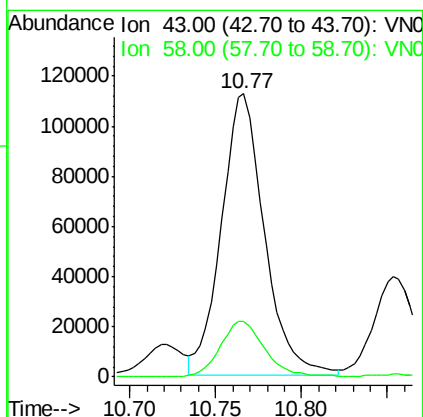
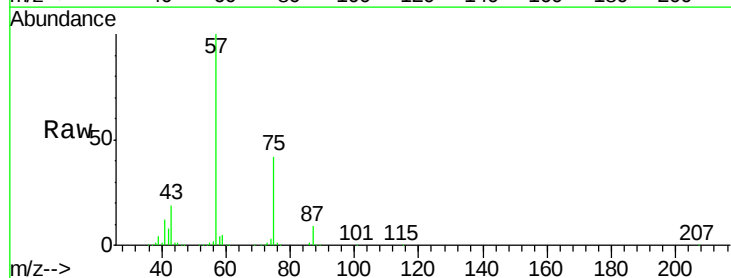
#57
 1,3-Dichloropropane
 Concen: 1.194 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

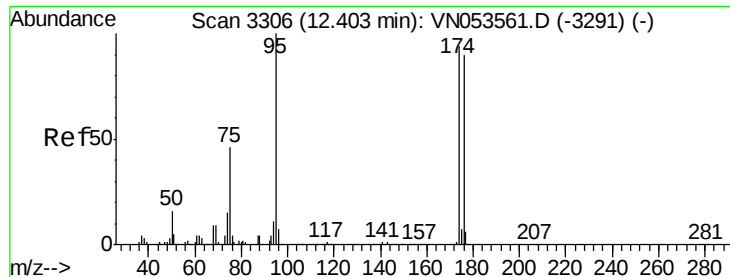
Tot Ion: 76 Resp: 15640
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 47.059 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN053652.D
 Acq: 7 Feb 2019 13:39

Tgt Ion: 43 Resp: 196721
 Ion Ratio Lower Upper
 43 100
 58 20.4 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053652.D

Acq: 7 Feb 2019 13:39

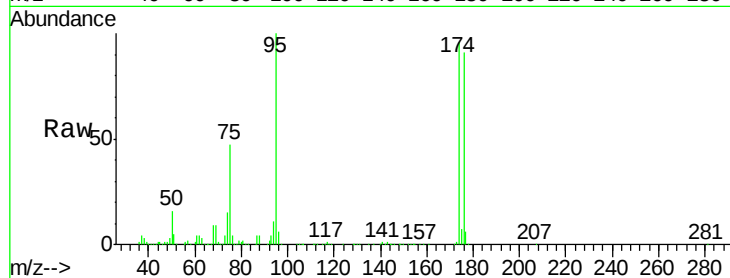
Tot Ion: 95 Resp: 510777

Ion Ratio Lower Upper

95 100

174 94.8 0.0 183.2

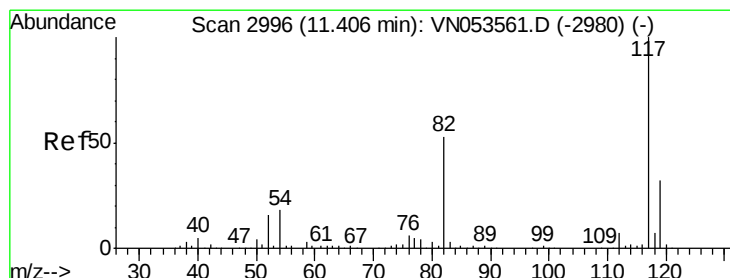
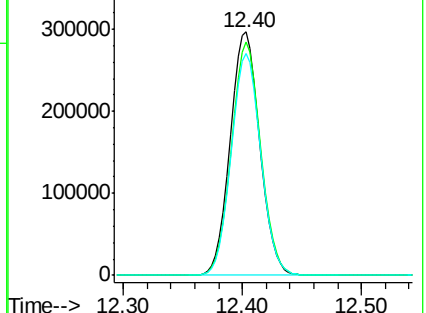
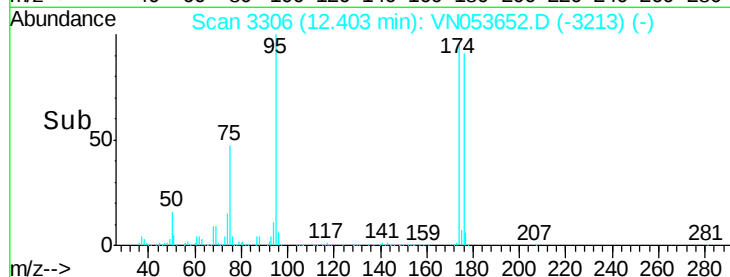
176 91.1 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053652.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053652.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053652.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053652.D

Acq: 7 Feb 2019 13:39

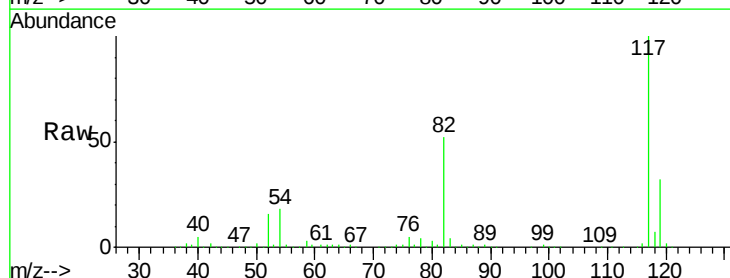
Tgt Ion: 117 Resp: 1180465

Ion Ratio Lower Upper

117 100

82 52.1 42.9 64.3

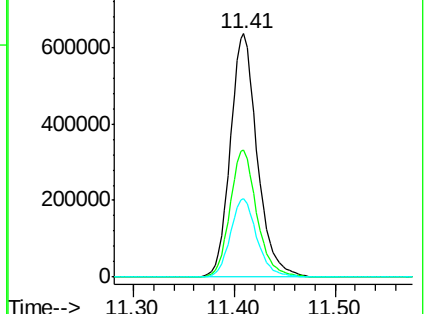
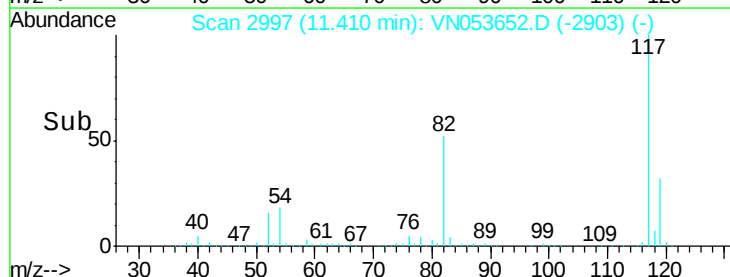
119 32.1 26.0 39.0

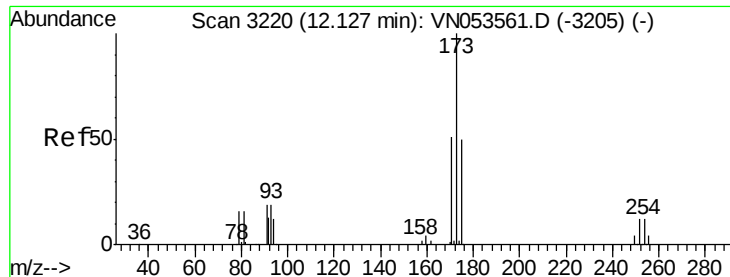


Abundance Ion 116.90 (116.60 to 117.60): VN053652.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053652.D (-2903) (-)

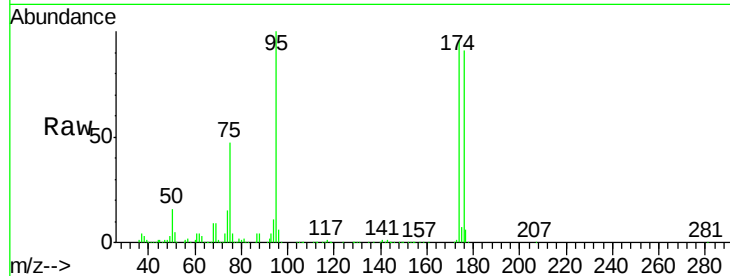
Ion 118.90 (118.60 to 119.60): VN053652.D (-2903) (-)



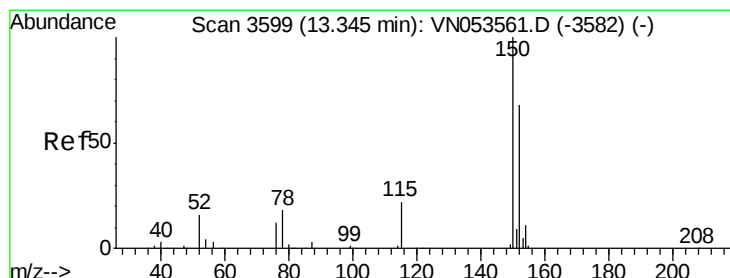
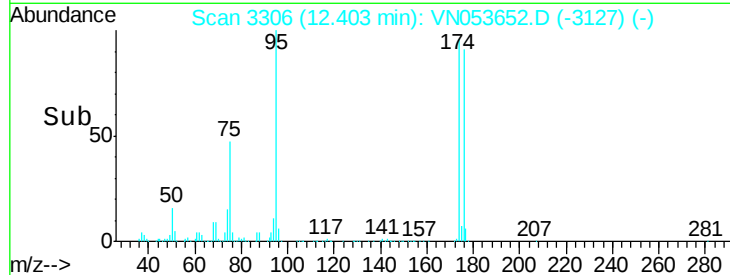
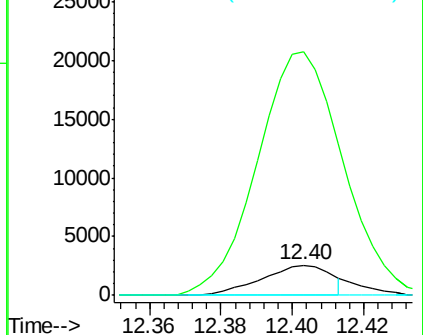


#71
Bromoform
Concen: 0.575 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

Tot Ion:173 Resp: 3455
Ion Ratio Lower Upper
173 100
175 857.8 24.6 74.0#
254 0.0 0.2 0.2#

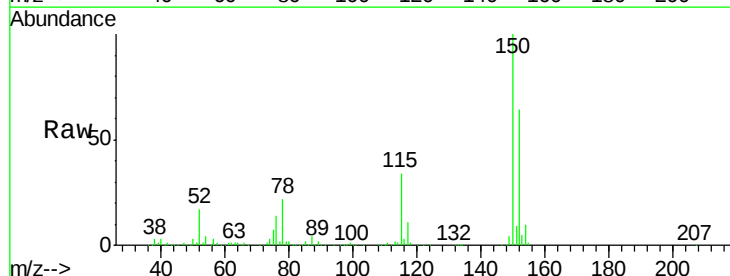


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

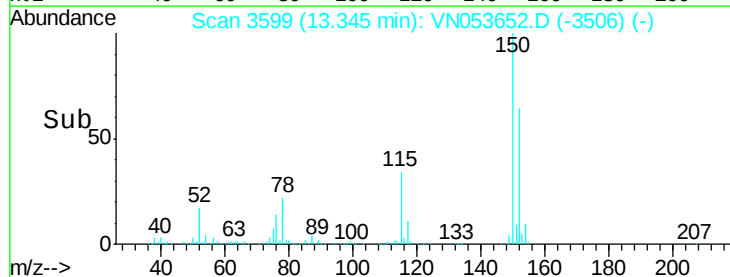
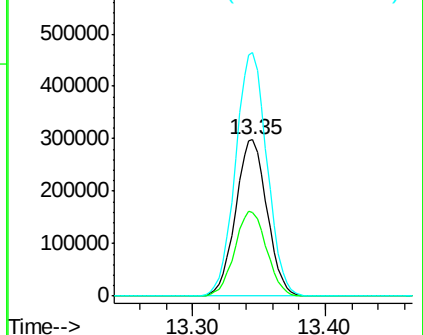


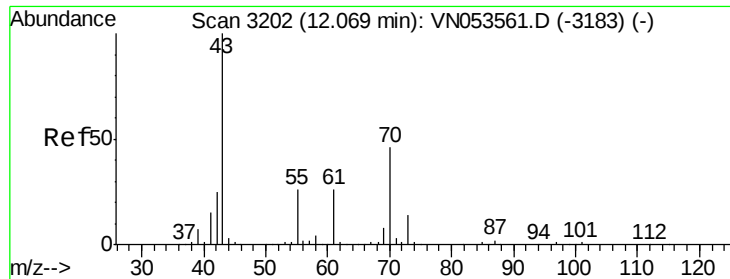
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

Tgt Ion:152 Resp: 489822
Ion Ratio Lower Upper
152 100
115 55.0 27.8 83.4
150 156.5 0.0 349.0



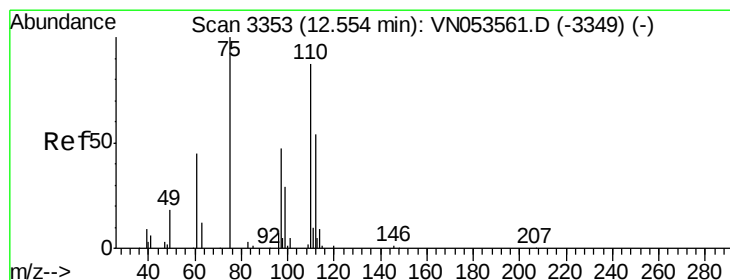
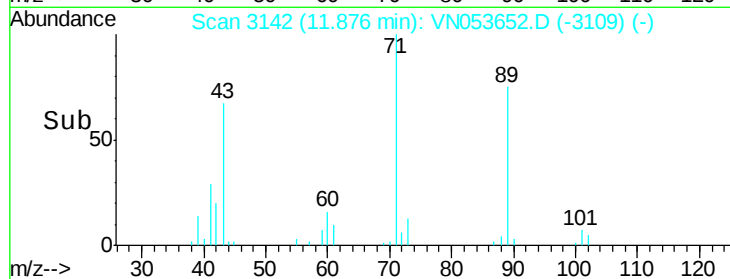
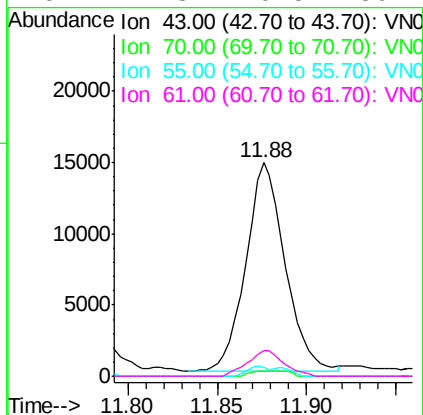
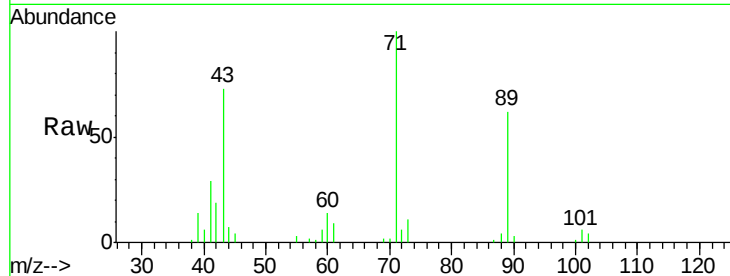
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





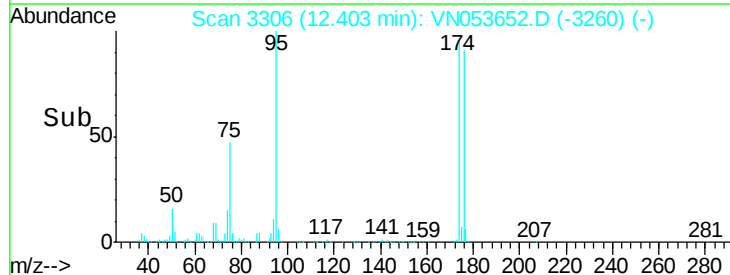
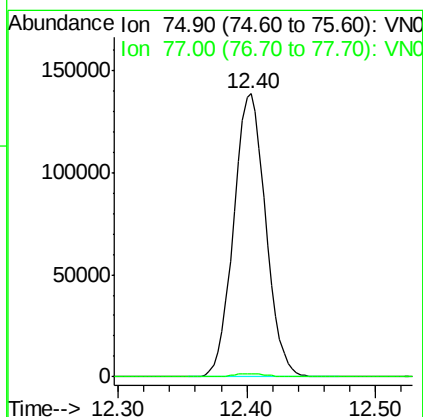
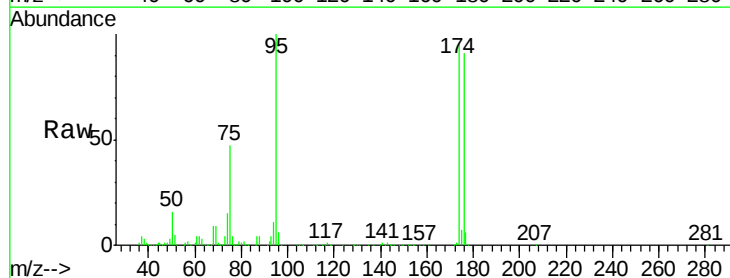
#74
N-amyl acetate
Concen: 2.712 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

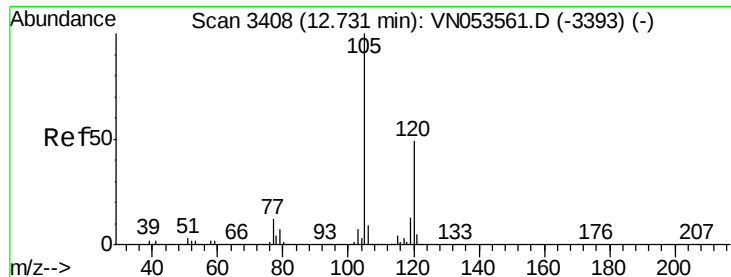
Tot Ion: 43 Resp: 22456
Ion Ratio Lower Upper
43 100
70 1.3 35.4 53.2#
55 2.6 20.9 31.3#
61 11.3 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 38.020 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

Tgt Ion: 75 Resp: 239201
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

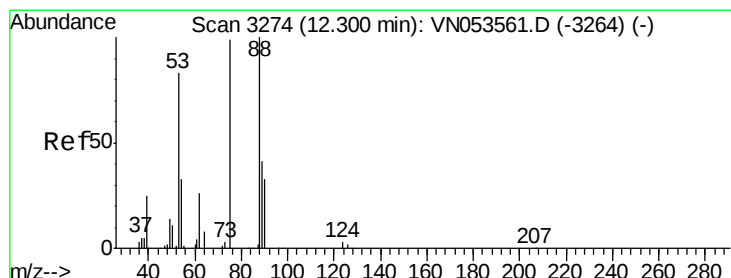
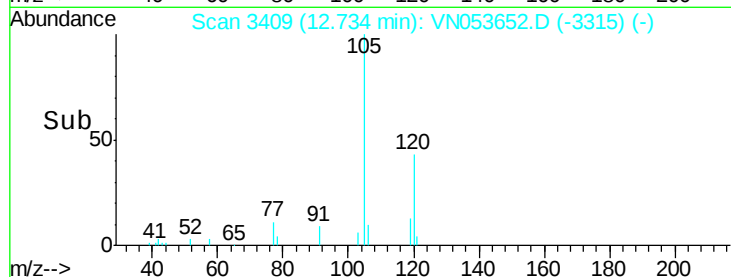
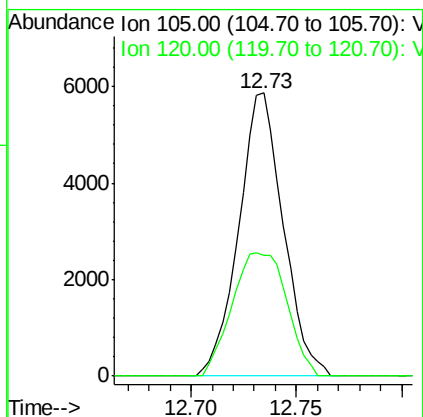
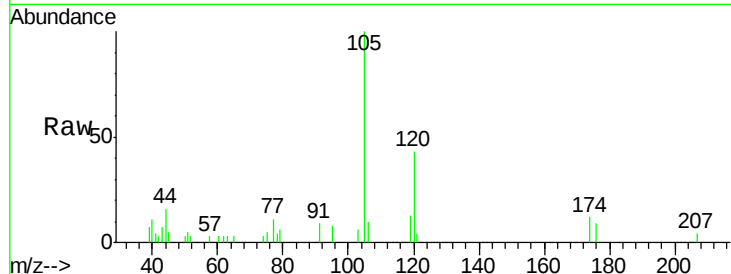




#80

1,3,5-Trimethylbenzene
Concen: 0.301 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

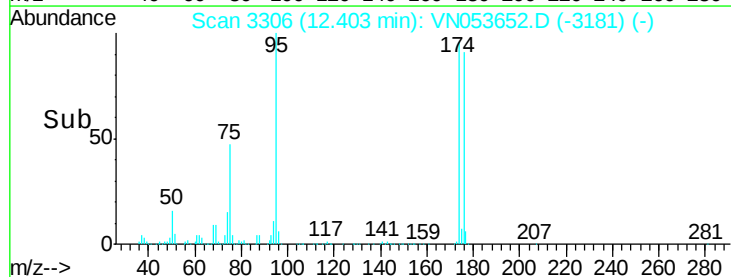
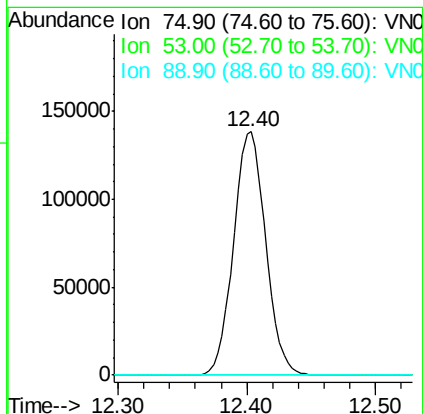
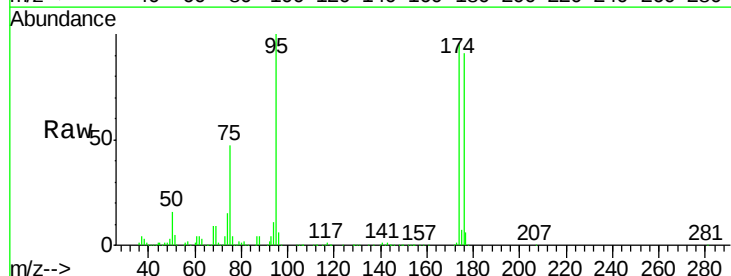
Tot Ion:105 Resp: 8606
Ion Ratio Lower Upper
105 100
120 53.6 24.9 74.6

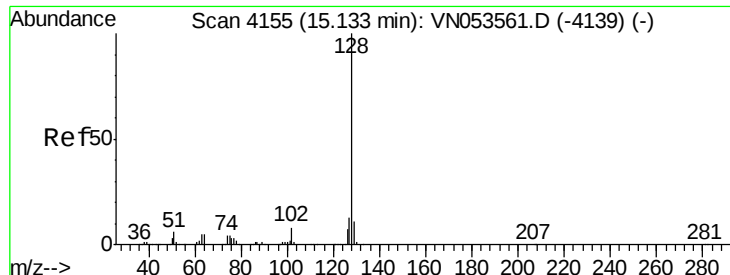


#81

trans-1,4-Dichloro-2-butene
Concen: 106.909 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

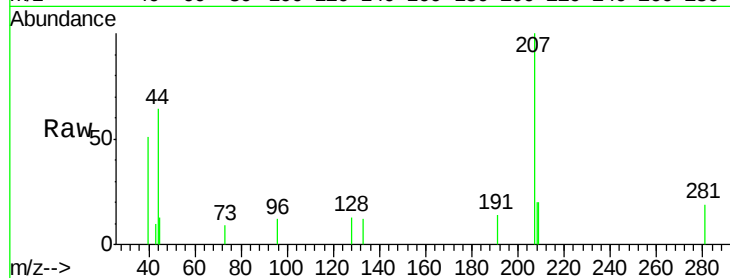
Tgt Ion: 75 Resp: 239201
Ion Ratio Lower Upper
75 100
53 0.0 69.8 104.6#
89 0.0 35.6 53.4#





#95
Naphthalene
Concen: 1.750 ug/l
RT: 15.14 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN053652.D
Acq: 7 Feb 2019 13:39

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#



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

