

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053657.D
 Acq On : 7 Feb 2019 15:53
 Operator : JC/SP
 Sample : PB116887ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Quant Time: Feb 09 00:29:43 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	737826	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1211527	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1091719	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	424148	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	385733	52.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.22%	
35) Dibromofluoromethane	7.59	113	385413	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
50) Toluene-d8	10.09	98	1457236	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
62) 4-Bromofluorobenzene	12.40	95	459783	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	

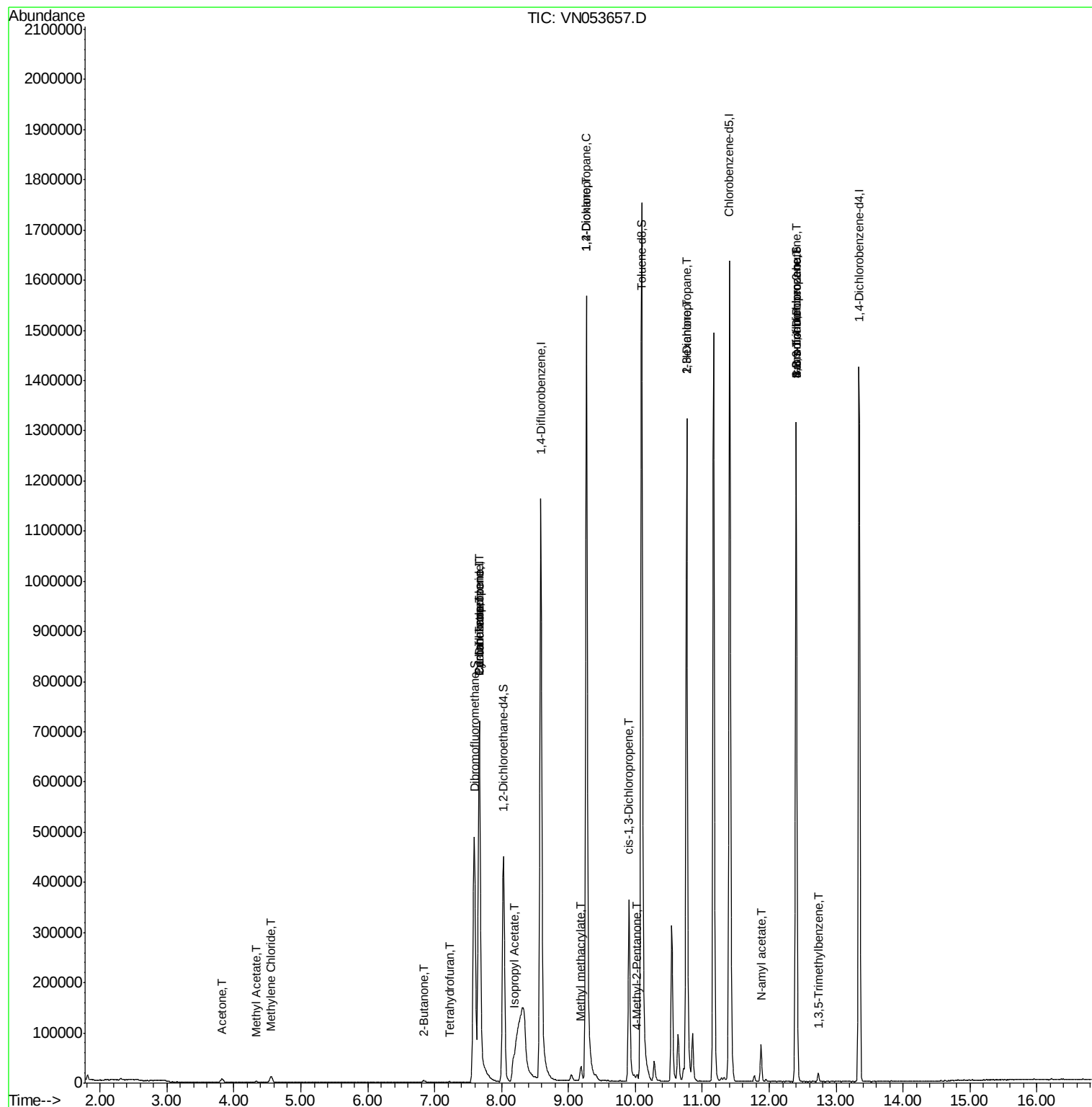
Target Compounds

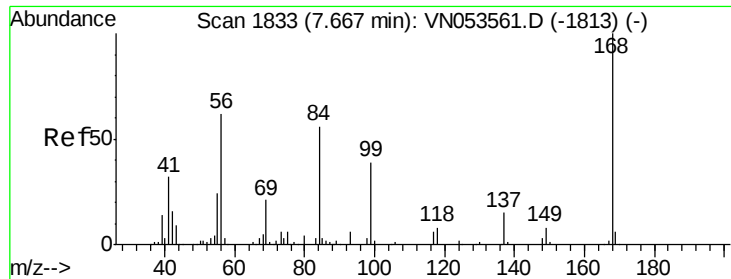
					Qvalue	
16) Acetone	3.82	43	13238	6.973	ug/l	95
18) Methyl Acetate	4.32	43	3053	0.543	ug/l #	74
20) Methylene Chloride	4.55	84	8953	1.124	ug/l	95
25) 2-Butanone	6.84	43	4350	1.606	ug/l #	85
29) Tetrahydrofuran	7.22	42	783	0.450	ug/l #	65
31) Cyclohexane	7.67	56	10369	0.661	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43551	3.988	ug/l #	49
38) Carbon Tetrachloride	7.67	117	59668	5.423	ug/l #	16
43) Isopropyl Acetate	8.18	43	48433	4.112	ug/l #	76
45) 1,2-Dichloropropane	9.27	63	2231	0.259	ug/l #	43
48) Methyl methacrylate	9.18	41	10002	1.779	ug/l #	12
49) 1,4-Dioxane	9.27	88	181	41.233	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9333	1.612	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	80231	6.263	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	15583	1.266	ug/l #	43
59) 2-Hexanone	10.76	43	200996	51.149	ug/l #	50
71) Bromoform	12.40	173	3171	0.571	ug/l #	1
74) N-amyl acetate	11.88	43	21552	3.006	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	216983	39.829	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8370	0.339	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	216983	111.995	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: VN053657.D

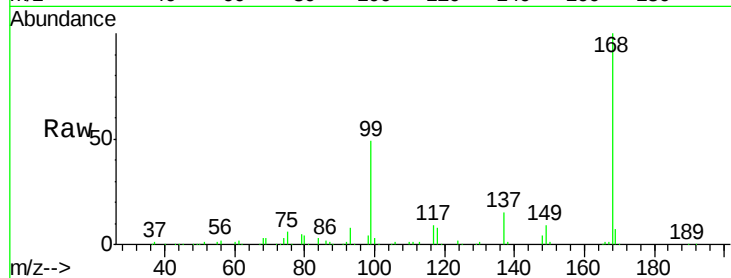
Acq: 7 Feb 2019 15:53

Tot Ion:168 Resp: 737826

Ion Ratio Lower Upper

168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053657.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053657.D (-1740) (-)

7.67

300000

250000

200000

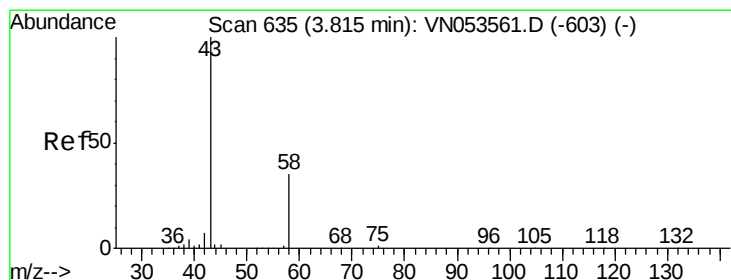
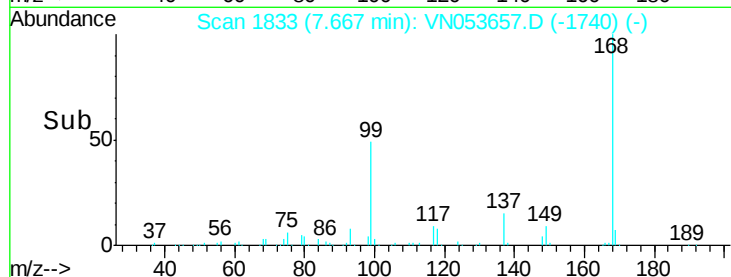
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 6.973 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053657.D

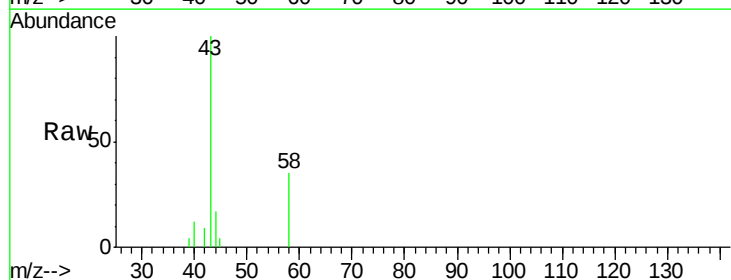
Acq: 7 Feb 2019 15:53

Tgt Ion: 43 Resp: 13238

Ion Ratio Lower Upper

43 100

58 36.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053657.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053657.D (-542) (-)

3.82

5000

4000

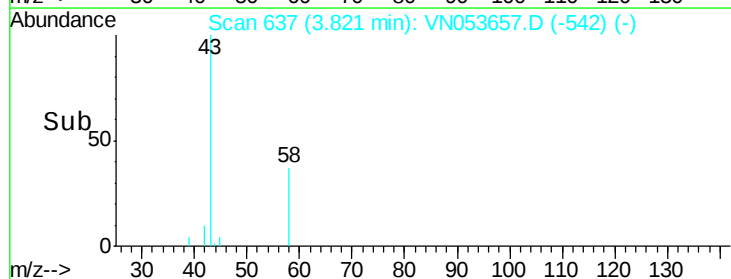
3000

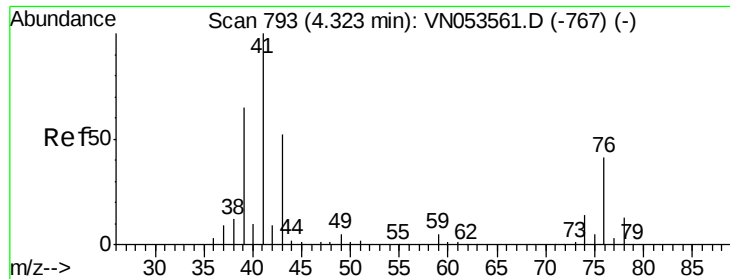
2000

1000

0

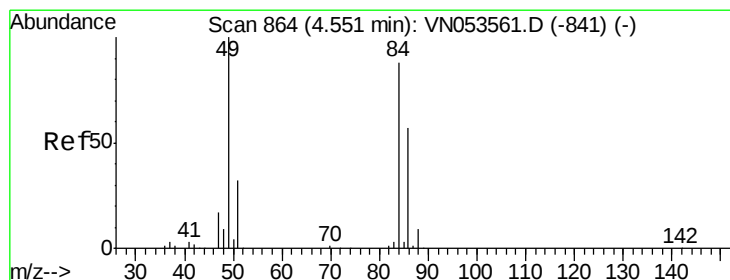
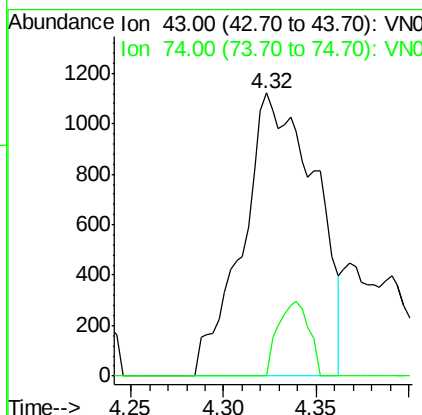
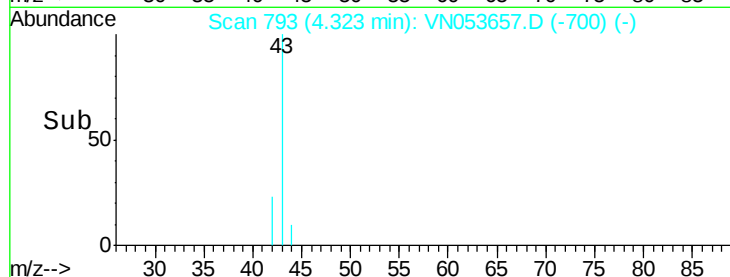
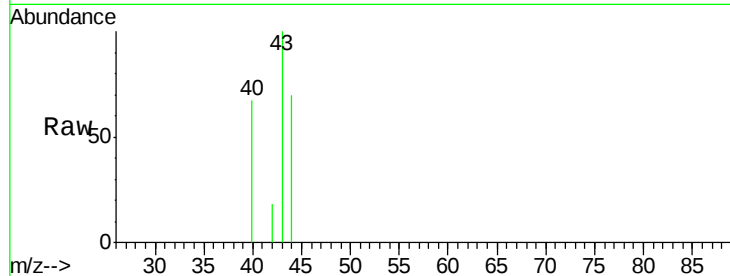
Time--> 3.75 3.80 3.85 3.90





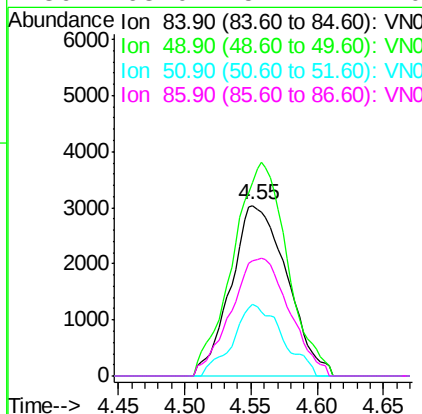
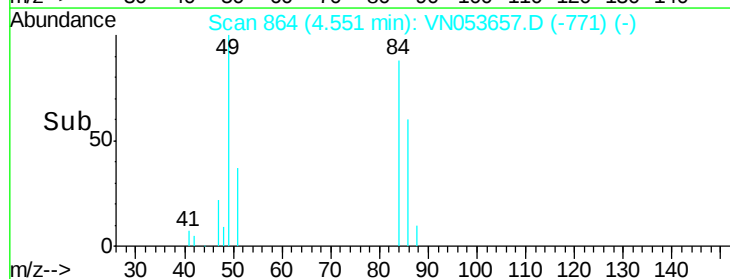
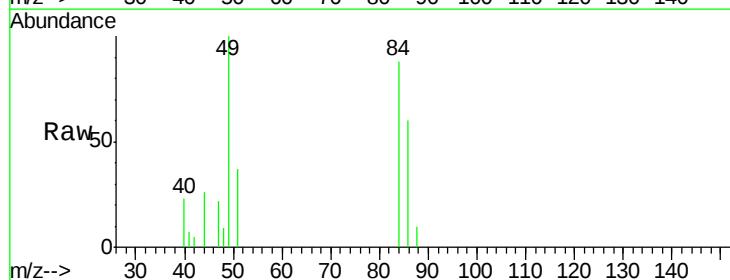
#18
Methyl Acetate
Concen: 0.543 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

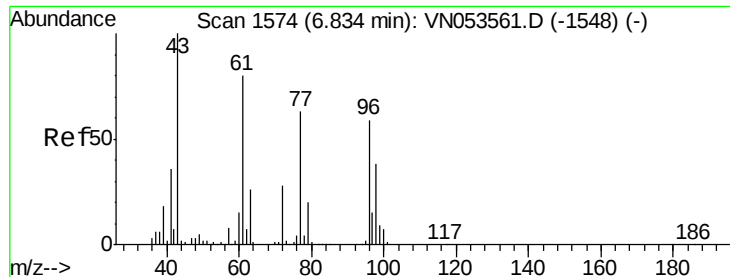
Tot Ion: 43 Resp: 3053
Ion Ratio Lower Upper
43 100
74 11.3 19.4 29.2#



#20
Methylene Chloride
Concen: 1.124 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tgt Ion: 84 Resp: 8953
Ion Ratio Lower Upper
84 100
49 113.4 94.3 141.5
51 41.8 29.4 44.2
86 68.0 51.4 77.0





#25

2-Butanone

Concen: 1.606 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053657.D

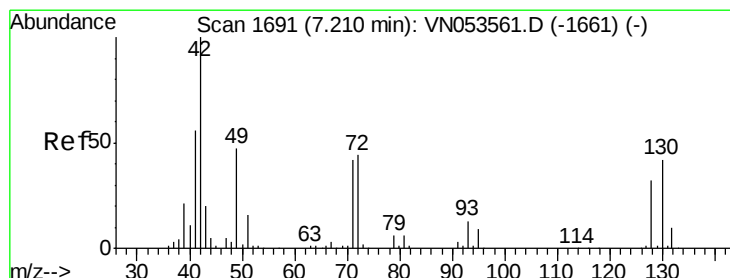
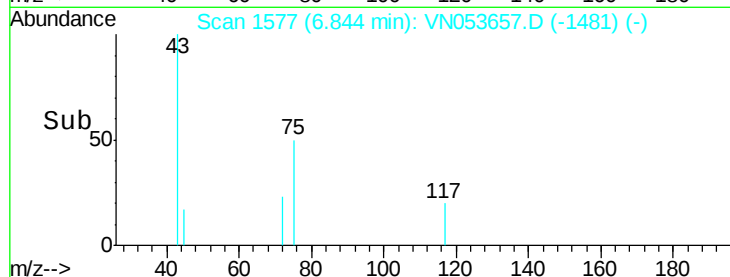
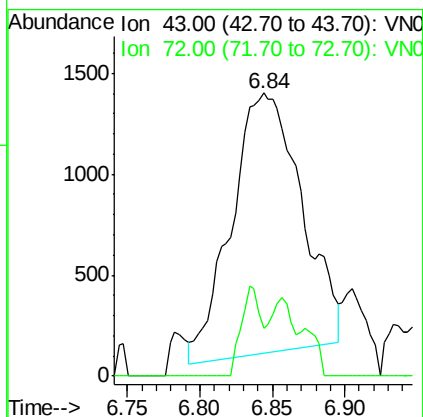
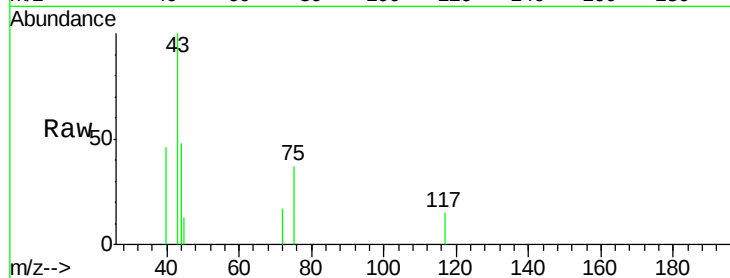
Acq: 7 Feb 2019 15:53

Tot Ion: 43 Resp: 4350

Ion Ratio Lower Upper

43 100

72 19.4 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.450 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053657.D

Acq: 7 Feb 2019 15:53

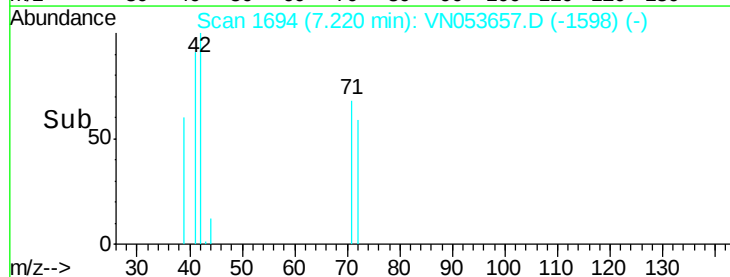
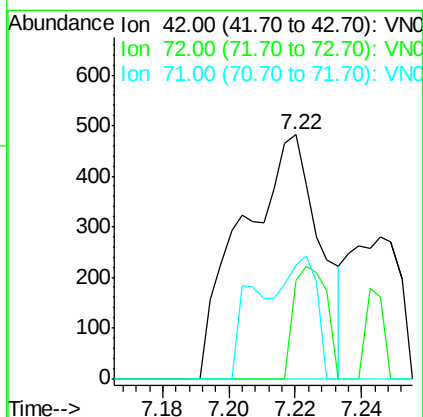
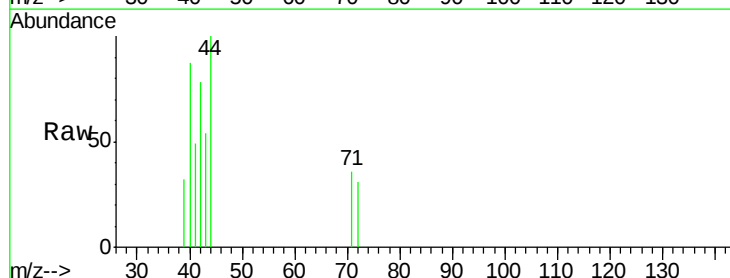
Tgt Ion: 42 Resp: 783

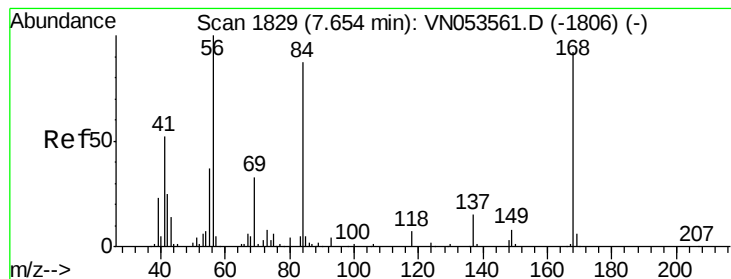
Ion Ratio Lower Upper

42 100

72 19.7 35.2 52.8#

71 20.8 33.0 49.4#





#31

Cyclohexane

Concen: 0.661 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053657.D

Acq: 7 Feb 2019 15:53

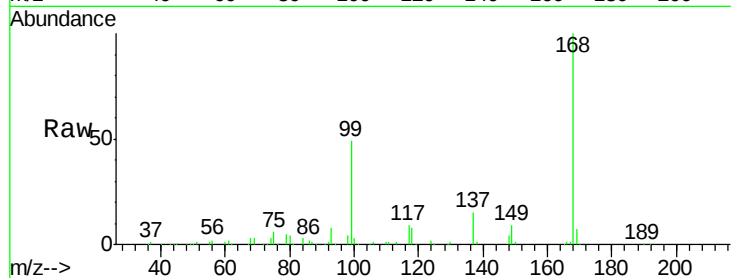
Tot Ion: 56 Resp: 10369

Ion Ratio Lower Upper

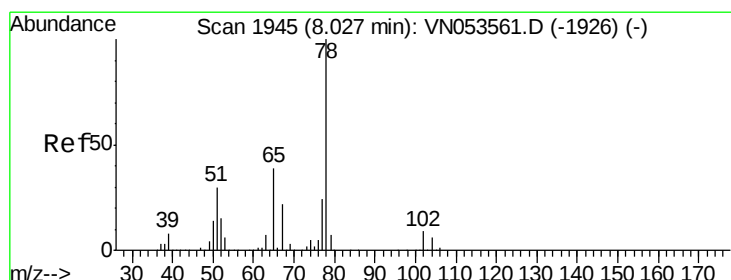
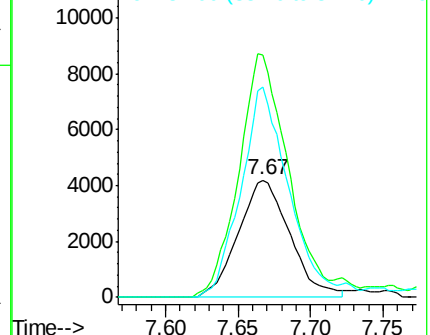
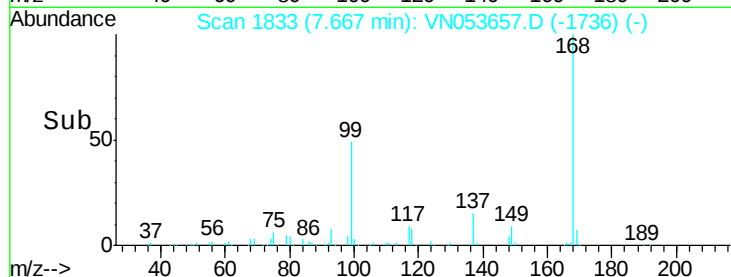
56 100

69 207.6 26.4 39.6#

84 179.3 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN053657.D (-1736) (-)



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053657.D

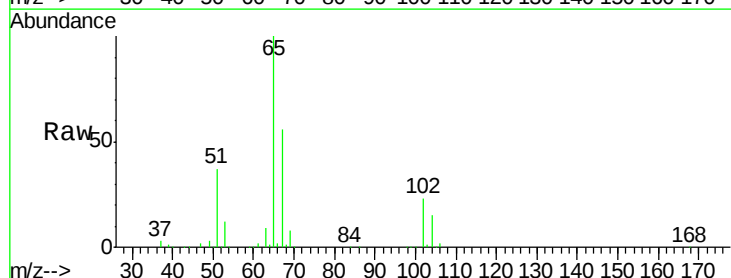
Acq: 7 Feb 2019 15:53

Tgt Ion: 65 Resp: 385733

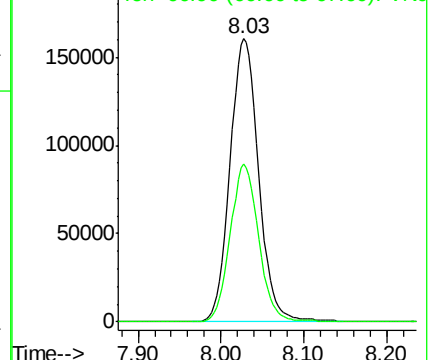
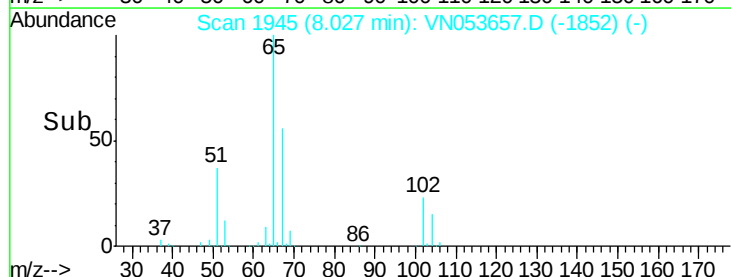
Ion Ratio Lower Upper

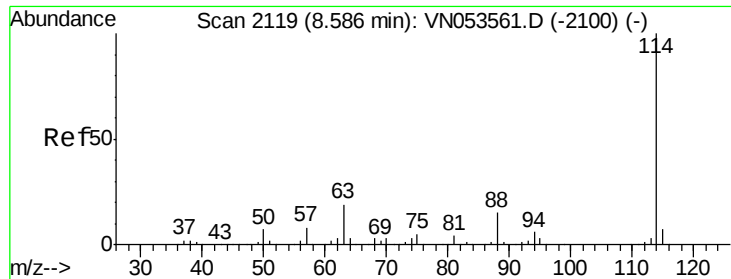
65 100

67 55.7 0.0 111.2



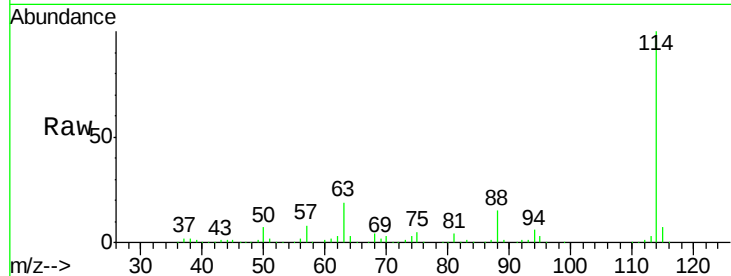
Abundance Ion 64.90 (64.60 to 65.60): VN053657.D (-1852) (-)



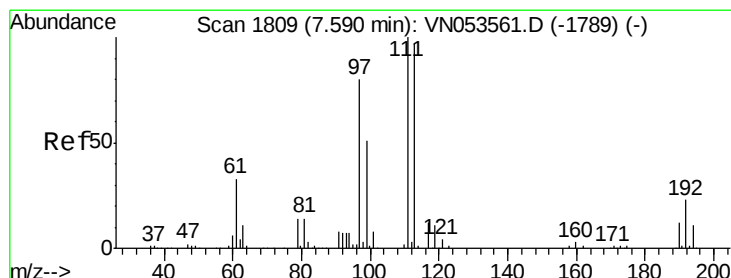
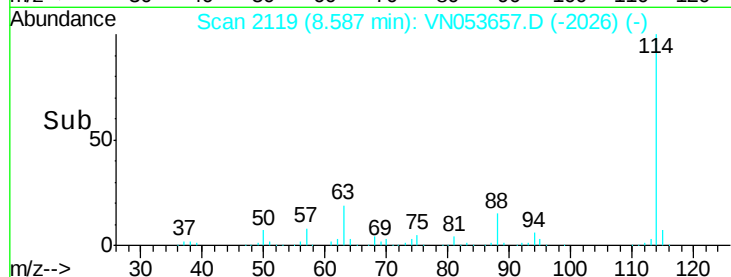
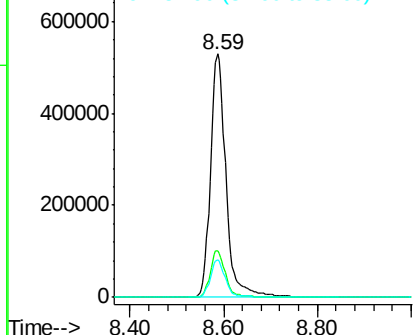


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053657.D
 Acq: 7 Feb 2019 15:53

Tot Ion:114 Resp: 1211527
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 15.2 0.0 30.4

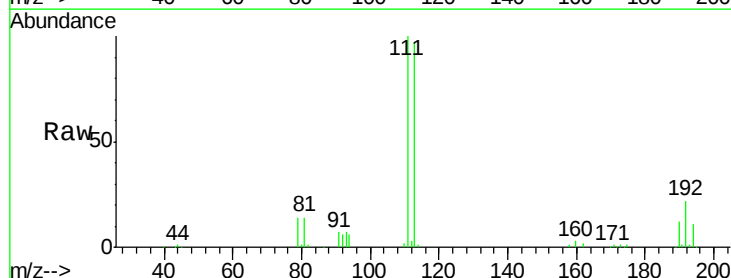


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

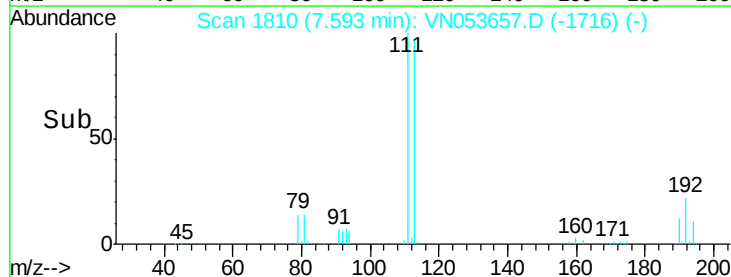
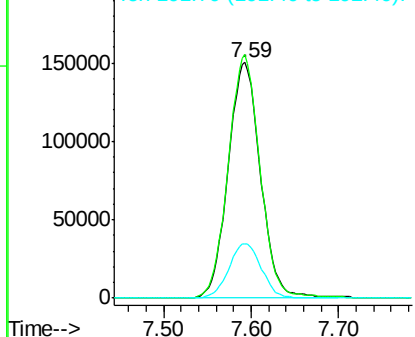


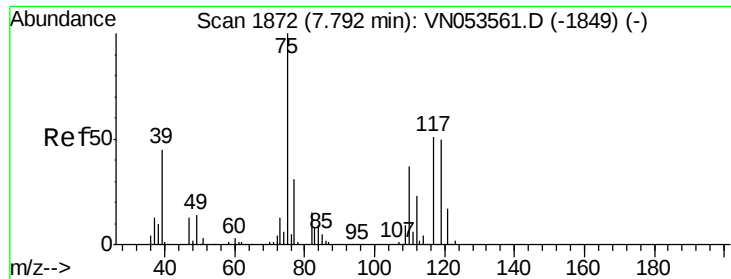
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053657.D
 Acq: 7 Feb 2019 15:53

Tgt Ion:113 Resp: 385413
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.1 121.7
 192 23.1 18.2 27.2



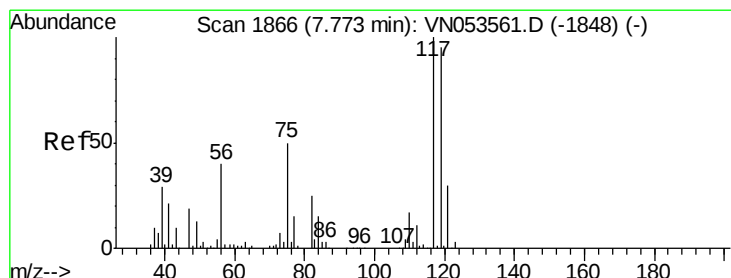
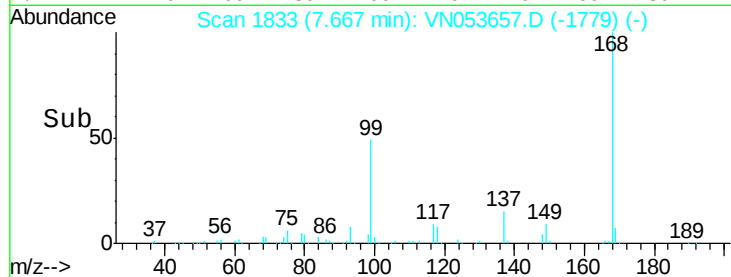
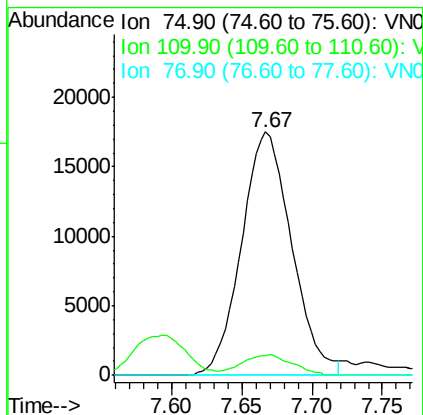
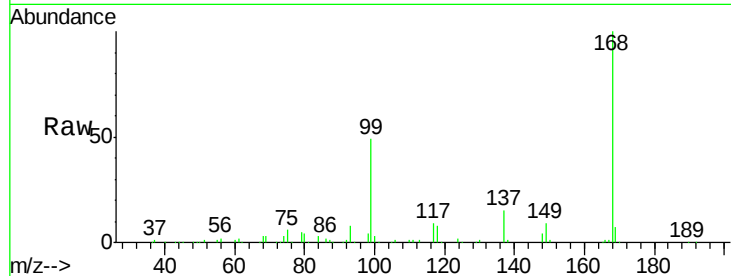
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





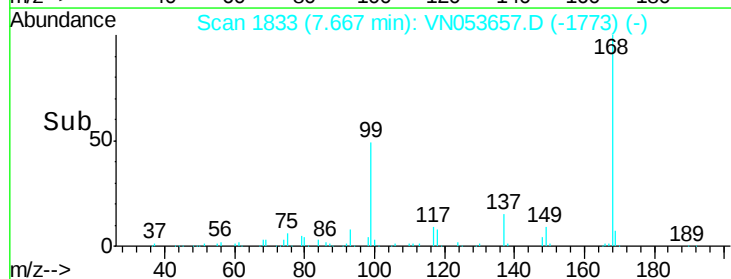
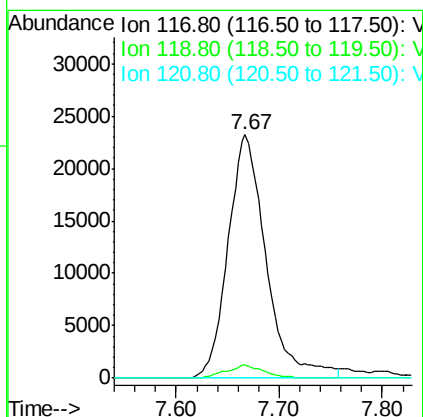
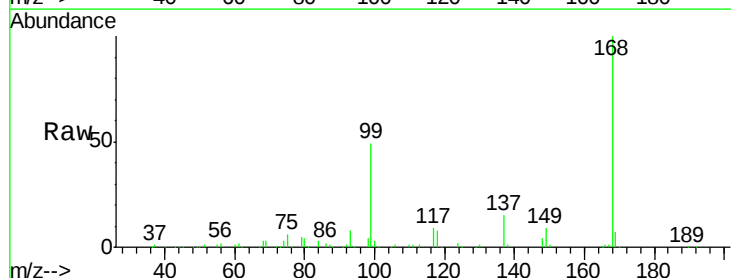
#36
 1,1-Dichloropropene
 Concen: 3.988 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053657.D
 Acq: 7 Feb 2019 15:53

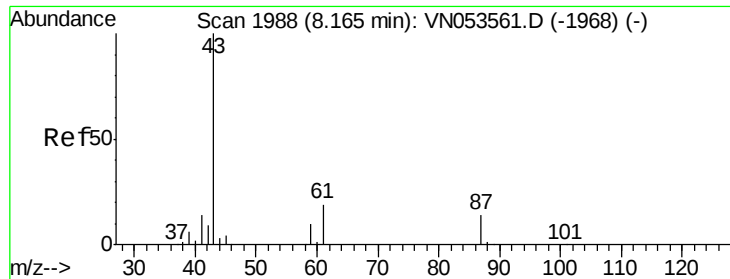
Tot Ion	75	Resp	43551
Ion Ratio	100	Lower	Upper
110	8.6	18.1	54.3#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.423 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053657.D
 Acq: 7 Feb 2019 15:53

Tgt Ion	117	Resp	59668
Ion Ratio	100	Lower	Upper
119	5.4	77.2	115.8#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 4.112 ug/l

RT: 8.18 min Scan# 1994

Delta R.T. 0.02 min

Lab File: VN053657.D

Acq: 7 Feb 2019 15:53

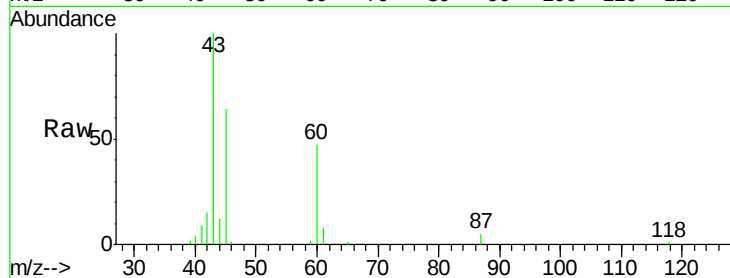
Tot Ion: 43 Resp: 48433

Ion Ratio Lower Upper

43 100

61 14.3 23.9 35.9#

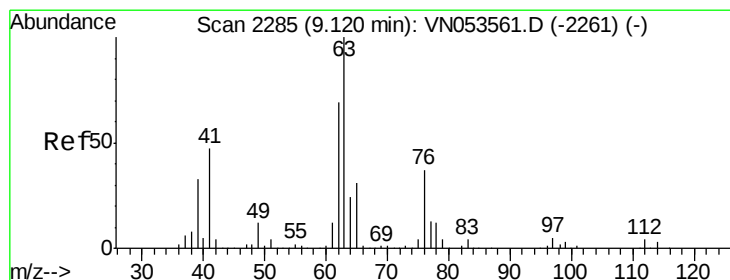
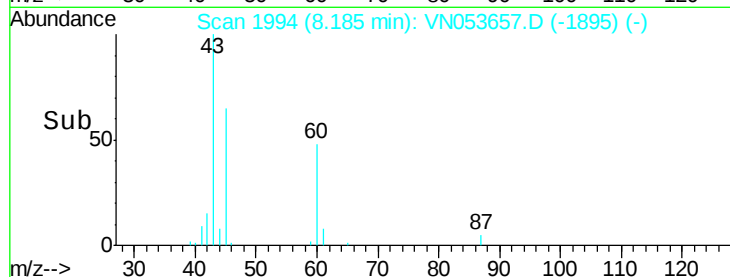
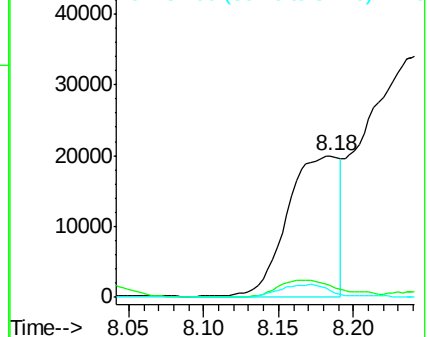
87 8.7 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.259 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053657.D

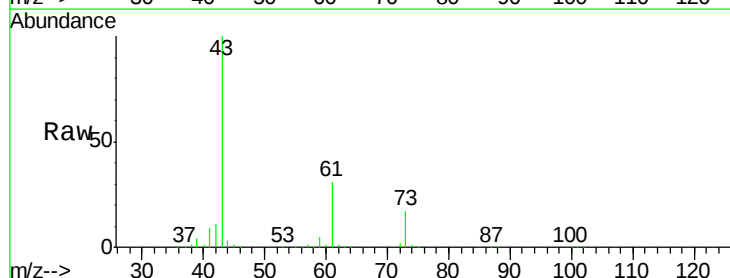
Acq: 7 Feb 2019 15:53

Tgt Ion: 63 Resp: 2231

Ion Ratio Lower Upper

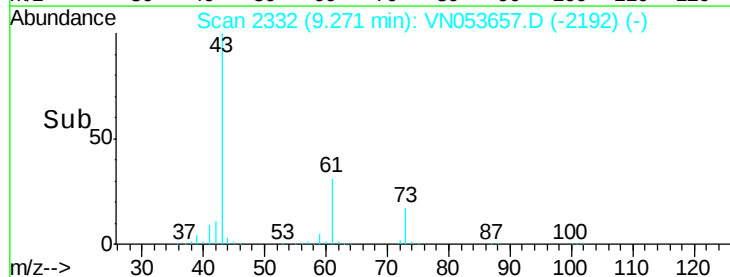
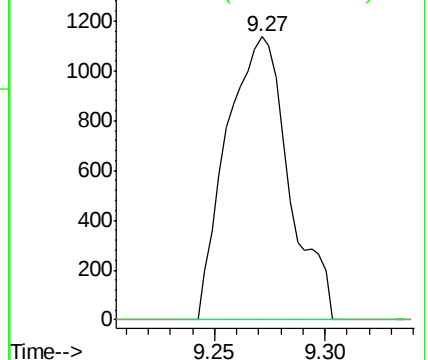
63 100

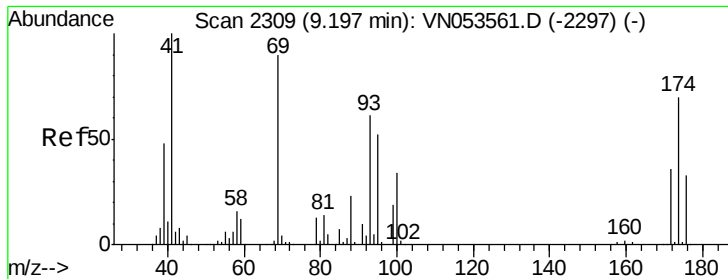
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

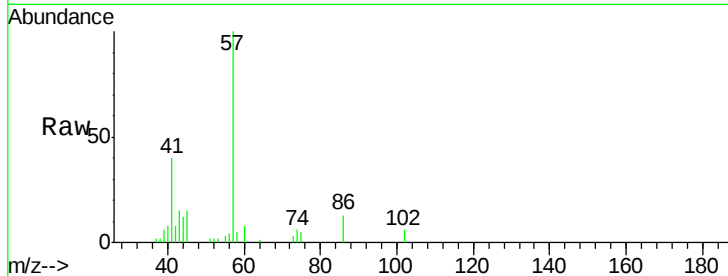
Ion 64.90 (64.60 to 65.60): VN0



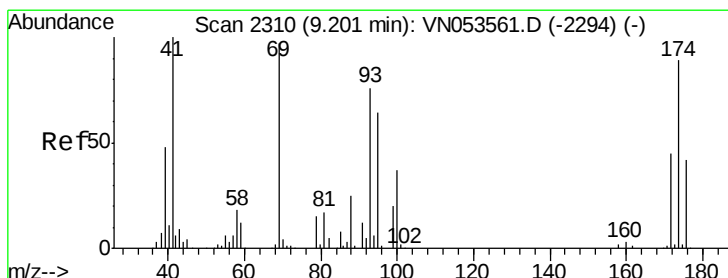
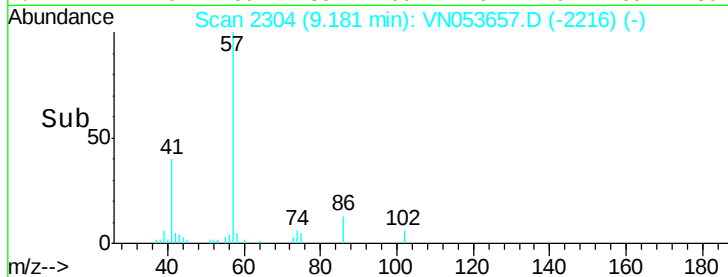
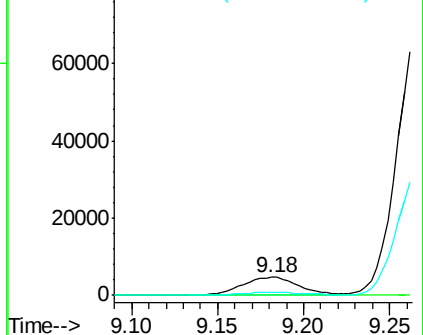


#48
Methvl methacrylate
Concen: 1.779 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tot Ion: 41 Resp: 10002
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

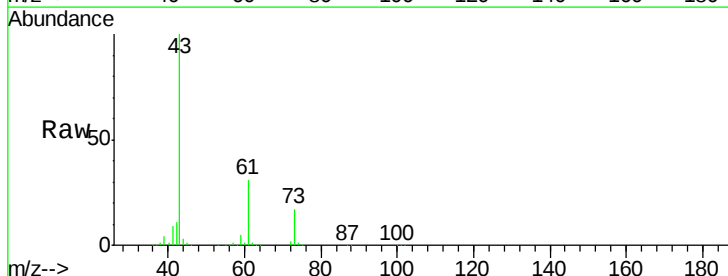


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

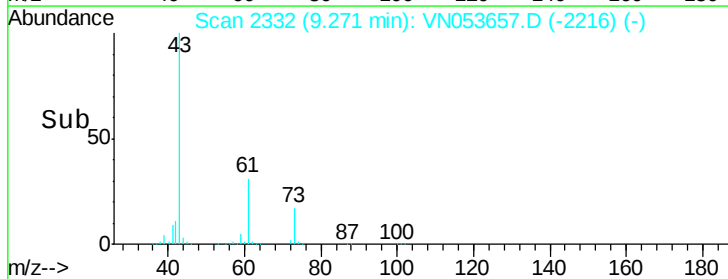
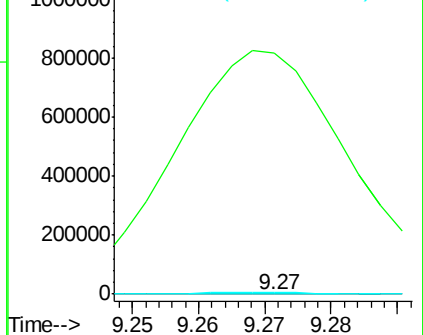


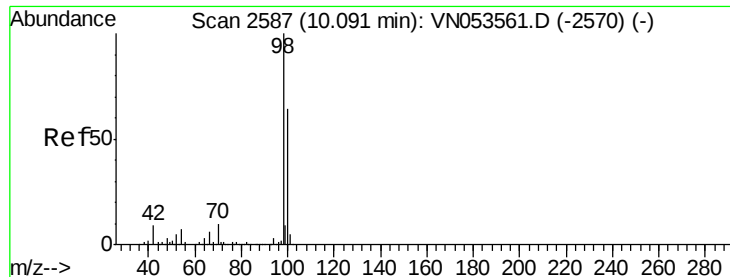
#49
1,4-Dioxane
Concen: 41.233 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tgt Ion: 88 Resp: 181
Ion Ratio Lower Upper
88 100
43 933990.1 27.8 41.6#
58 4705.5 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 41.233 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053657.D

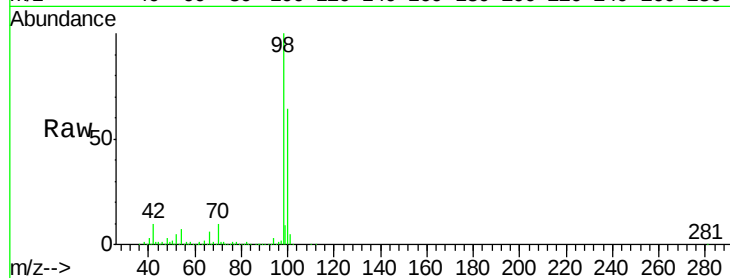
Acq: 7 Feb 2019 15:53

Tot Ion: 98 Resp: 1457236

Ion Ratio Lower Upper

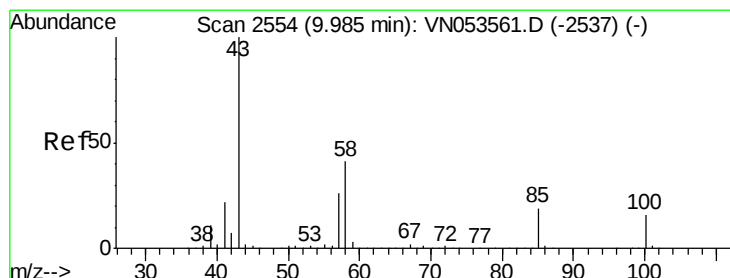
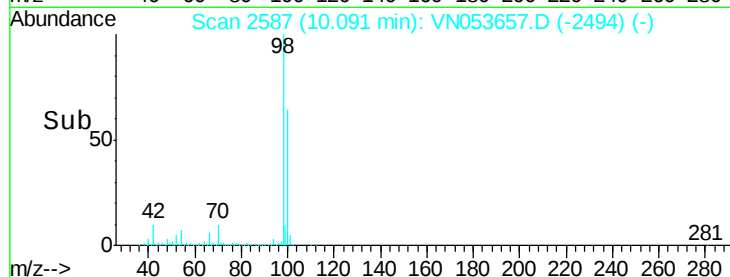
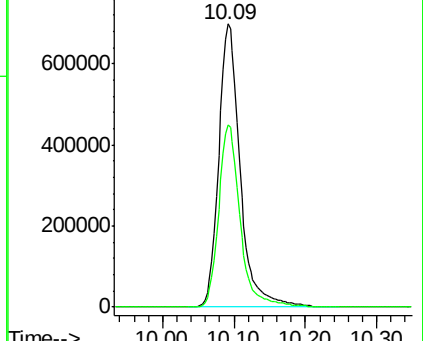
98 100

100 64.5 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: 1.612 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN053657.D

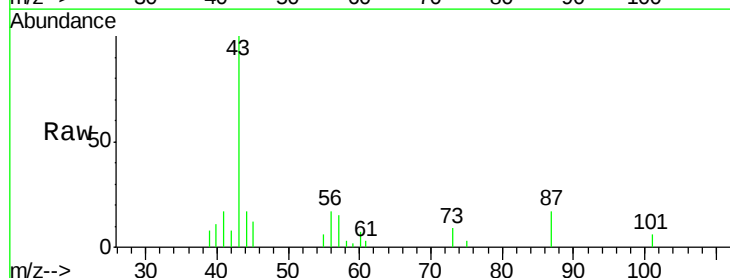
Acq: 7 Feb 2019 15:53

Tgt Ion: 43 Resp: 9333

Ion Ratio Lower Upper

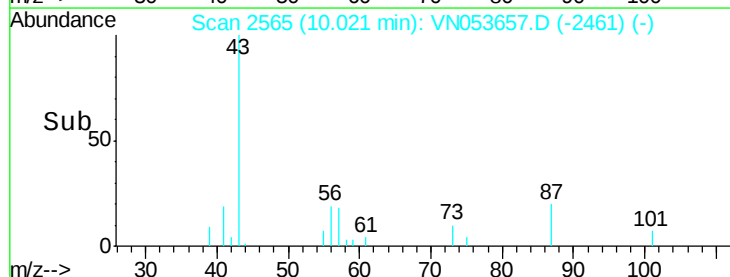
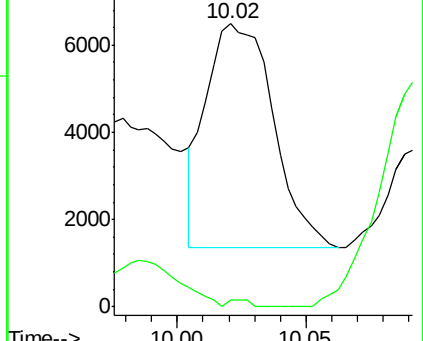
43 100

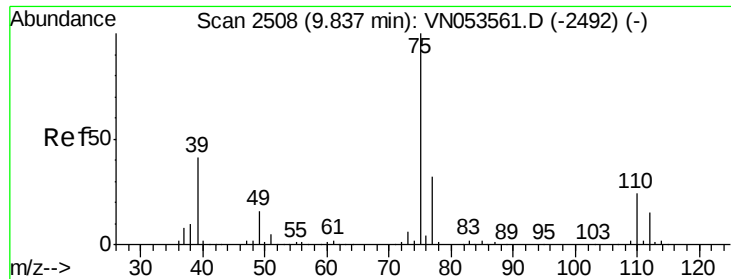
58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.263 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053657.D

Acq: 7 Feb 2019 15:53

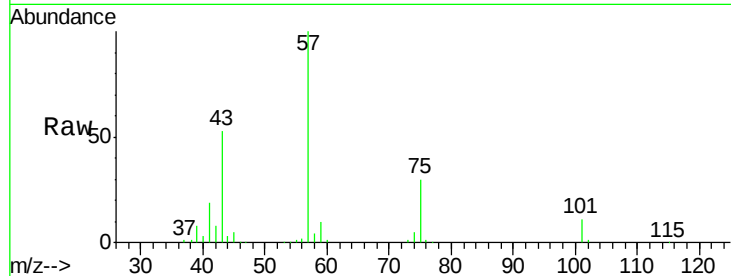
Tot Ion: 75 Resp: 80231

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

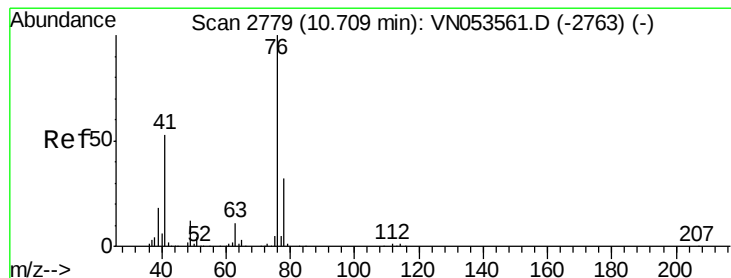
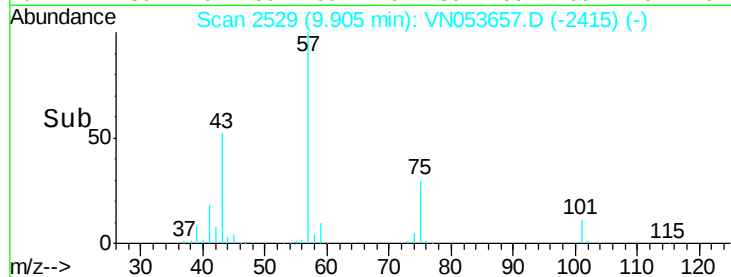
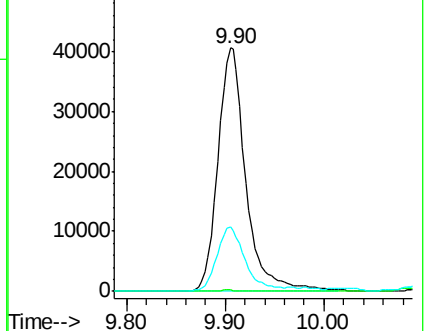
39 26.3 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.266 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053657.D

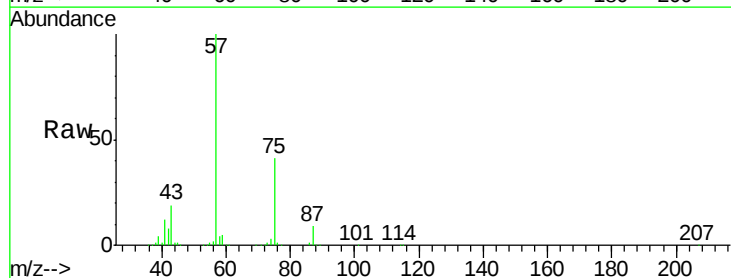
Acq: 7 Feb 2019 15:53

Tgt Ion: 76 Resp: 15583

Ion Ratio Lower Upper

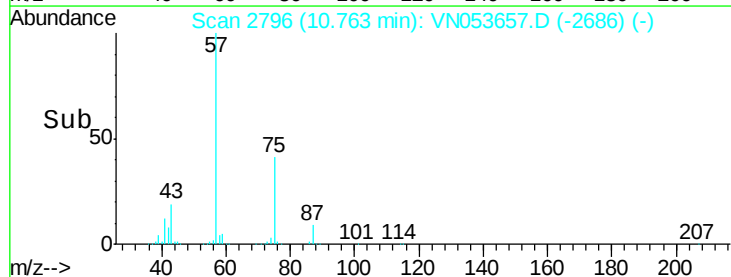
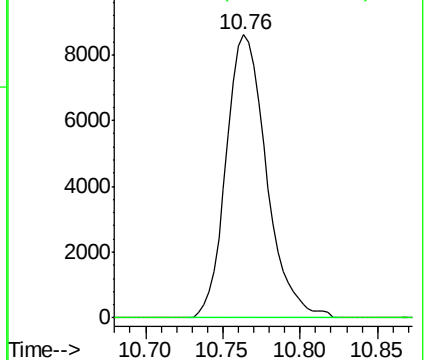
76 100

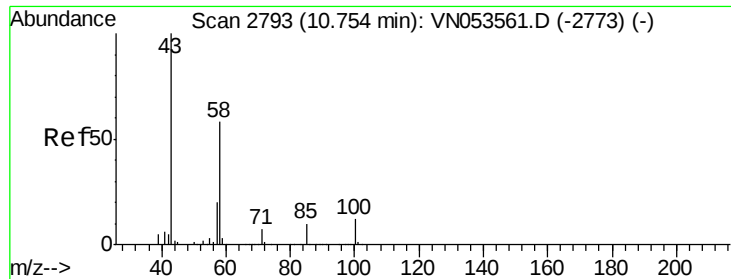
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

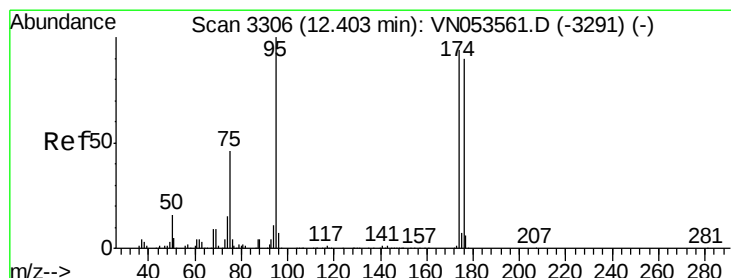
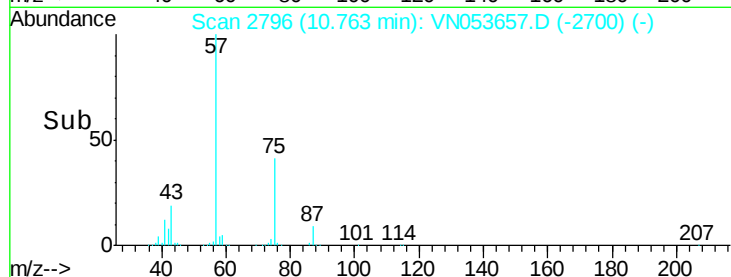
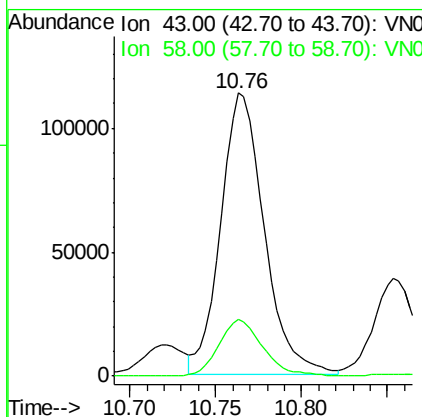
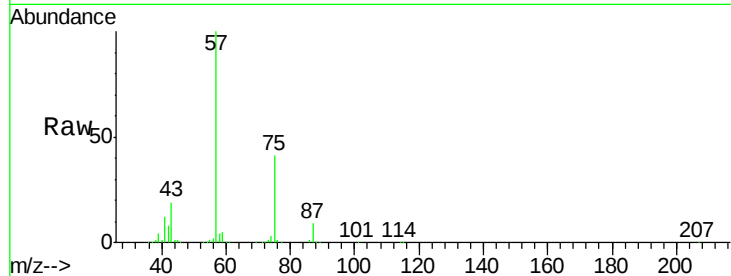
Ion 77.90 (77.60 to 78.60): VN0





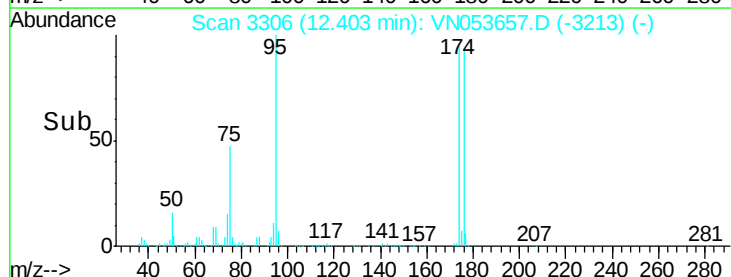
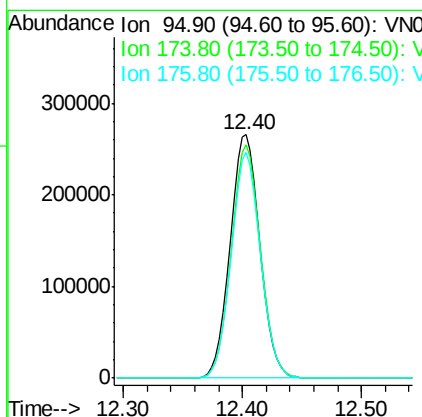
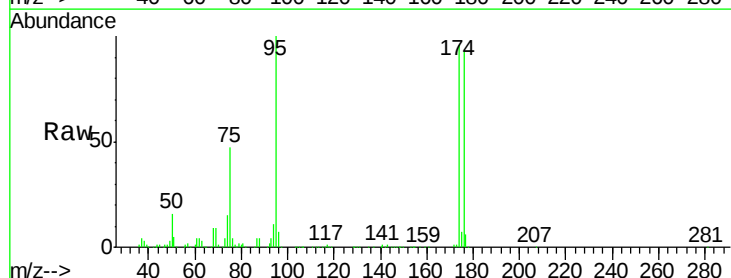
#59
2-Hexanone
Concen: 51.149 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

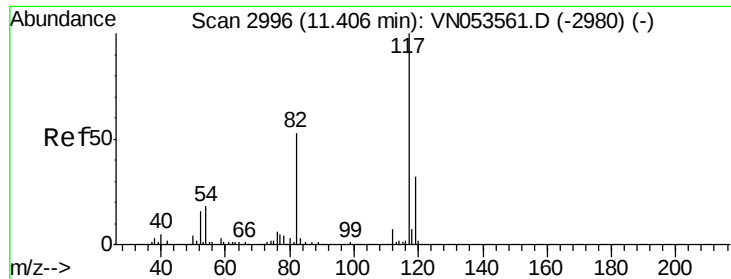
Tot Ion: 43 Resp: 200996
Ion Ratio Lower Upper
43 100
58 20.4 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

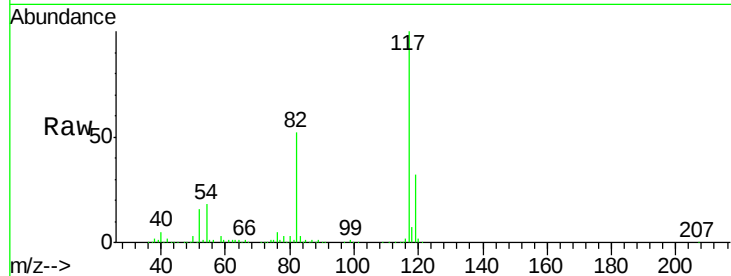
Tgt Ion: 95 Resp: 459783
Ion Ratio Lower Upper
95 100
174 94.1 0.0 183.2
176 90.9 0.0 177.4



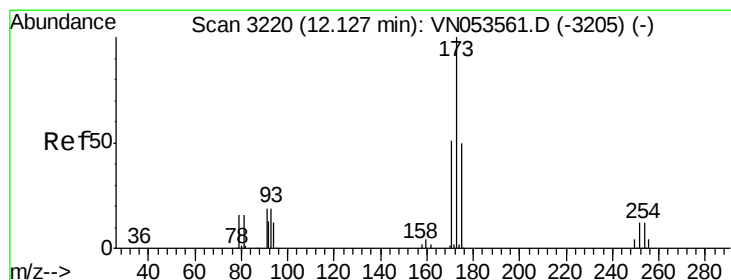
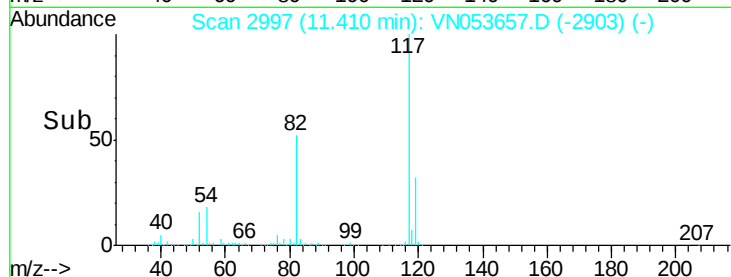
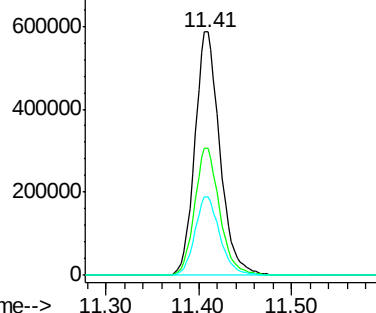


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tot Ion:117 Resp: 1091719
Ion Ratio Lower Upper
117 100
82 52.1 42.9 64.3
119 32.4 26.0 39.0

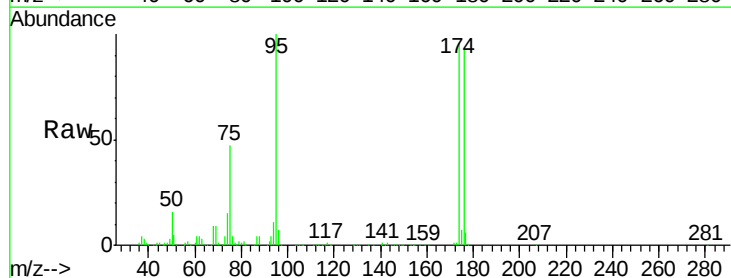


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

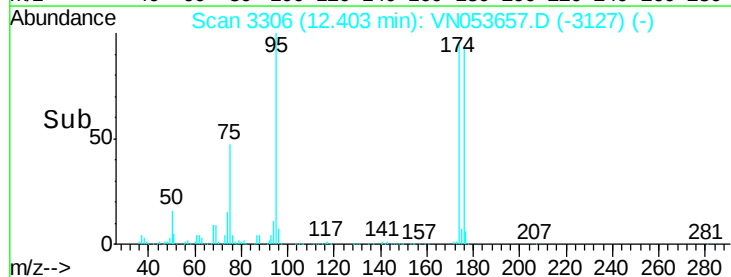
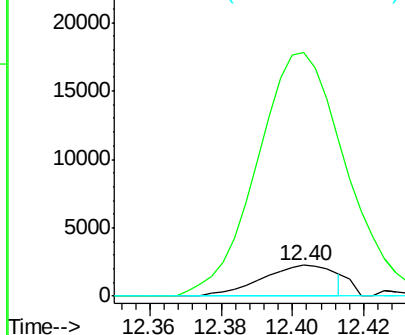


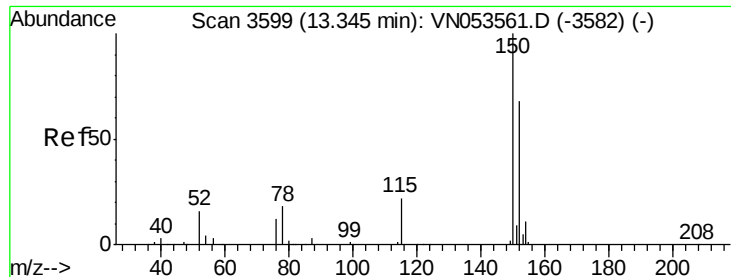
#71
Bromoform
Concen: 0.571 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tgt Ion:173 Resp: 3171
Ion Ratio Lower Upper
173 100
175 810.7 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

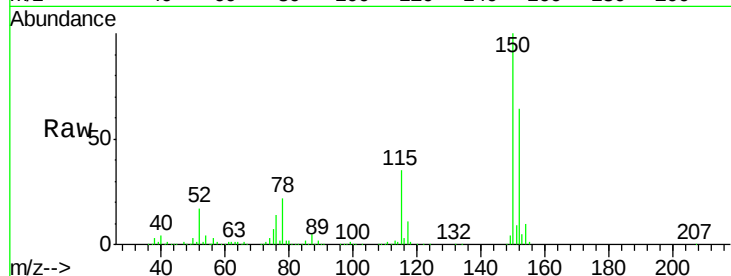




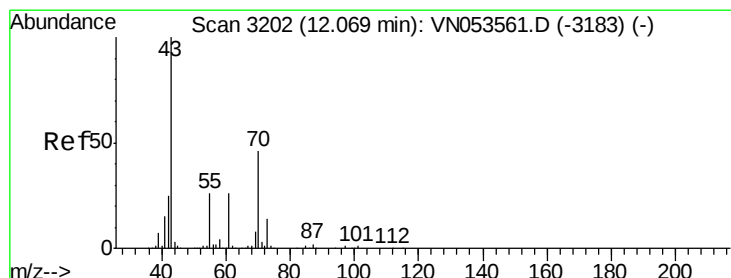
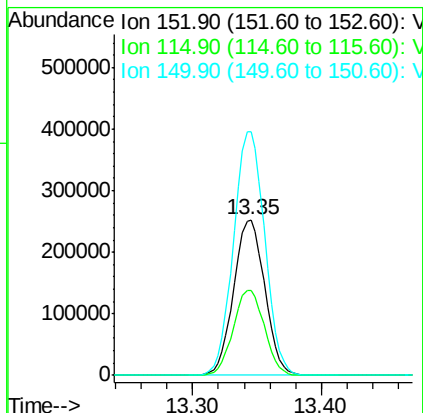
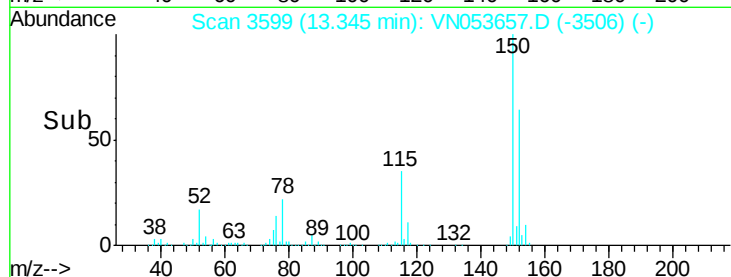
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.6	27.8	83.4
150	157.1	0.0	349.0



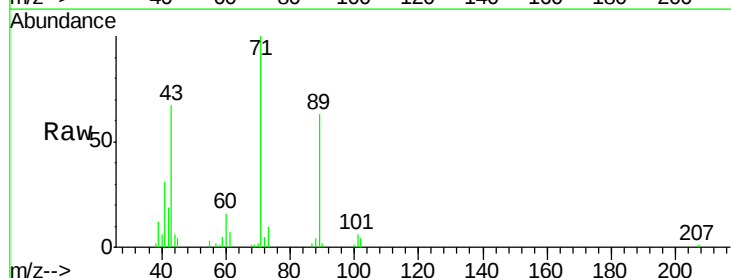
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



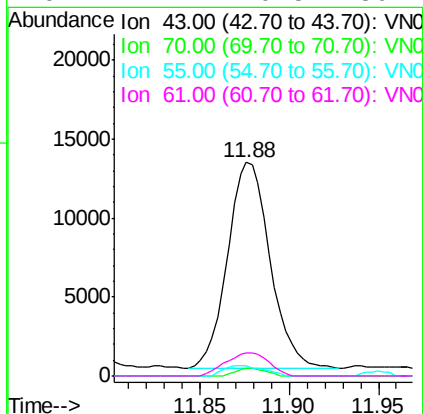
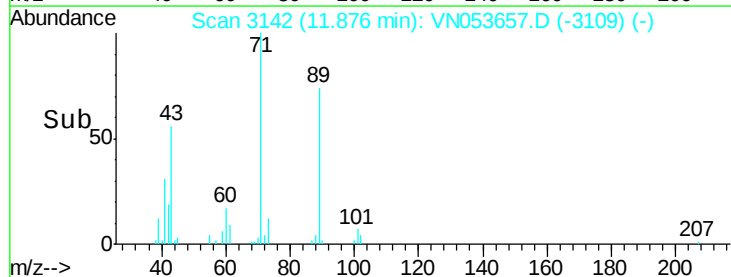
#74

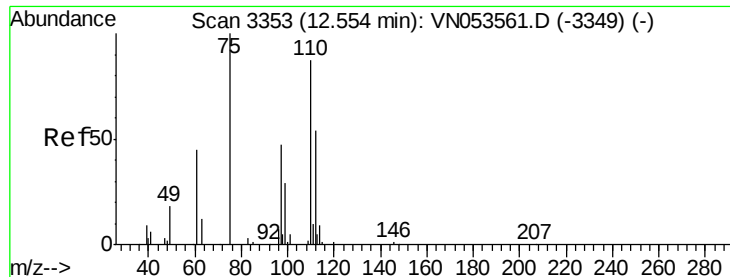
N-ethyl acetate
Concen: 3.006 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.6	35.4	53.2#
55	4.7	20.9	31.3#
61	11.4	20.5	30.7#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V

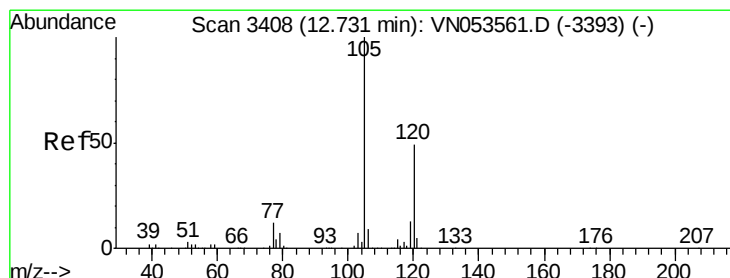
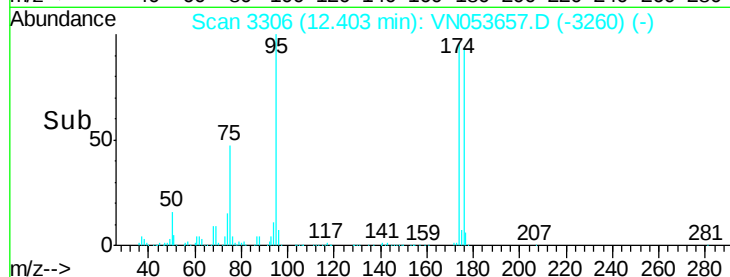
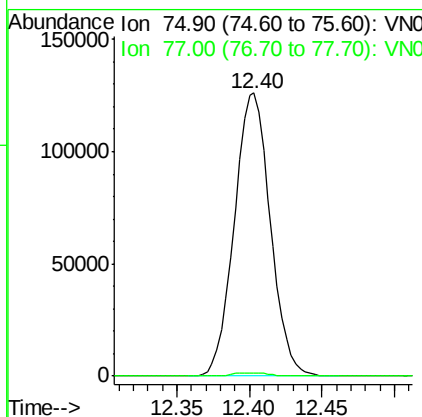
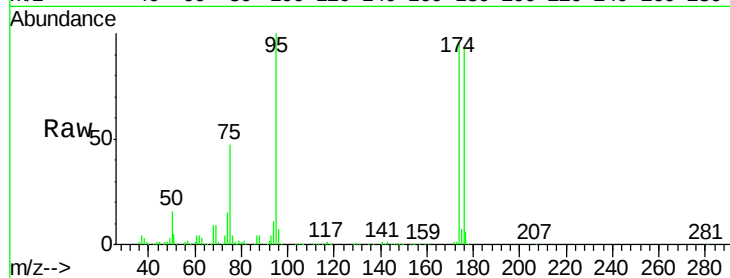




#76

1,2,3-Trichloropropane
Concen: 39.829 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

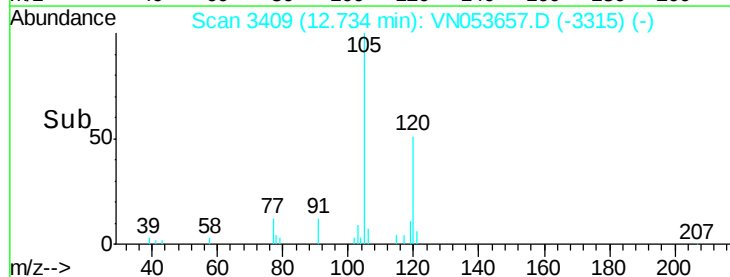
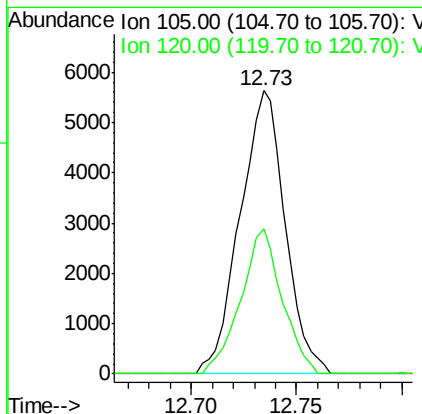
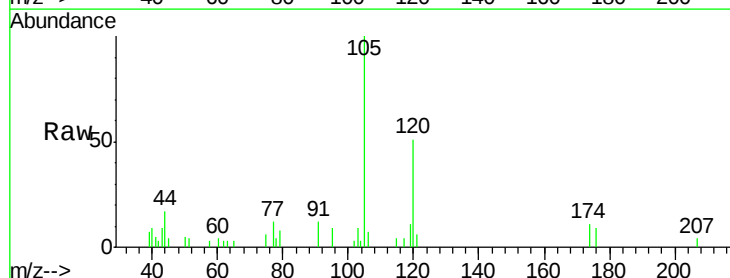
Tot Ion: 75 Resp: 216983
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

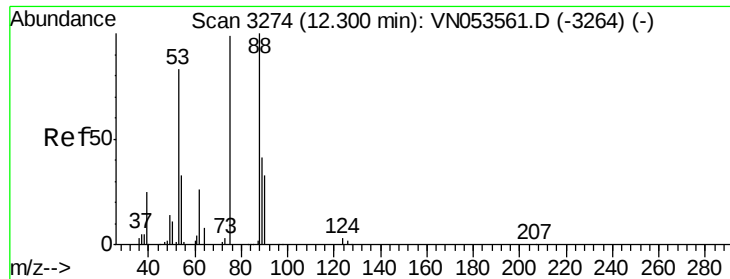


#80

1,3,5-Trimethylbenzene
Concen: 0.339 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053657.D
Acq: 7 Feb 2019 15:53

Tgt Ion: 105 Resp: 8370
Ion Ratio Lower Upper
105 100
120 46.9 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 111.995 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053657.D

Acq: 7 Feb 2019 15:53

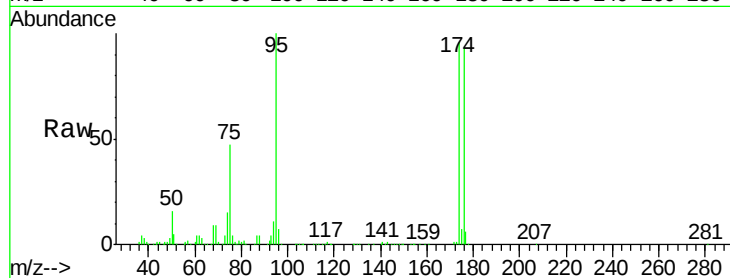
Tot Ion: 75 Resp: 216983

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

