

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053654.D
 Acq On : 7 Feb 2019 14:33
 Operator : JC/SP
 Sample : PB116887ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Quant Time: Feb 09 00:28:58 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	730448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1194948	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1089980	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	449348	50.00	ug/l	0.00

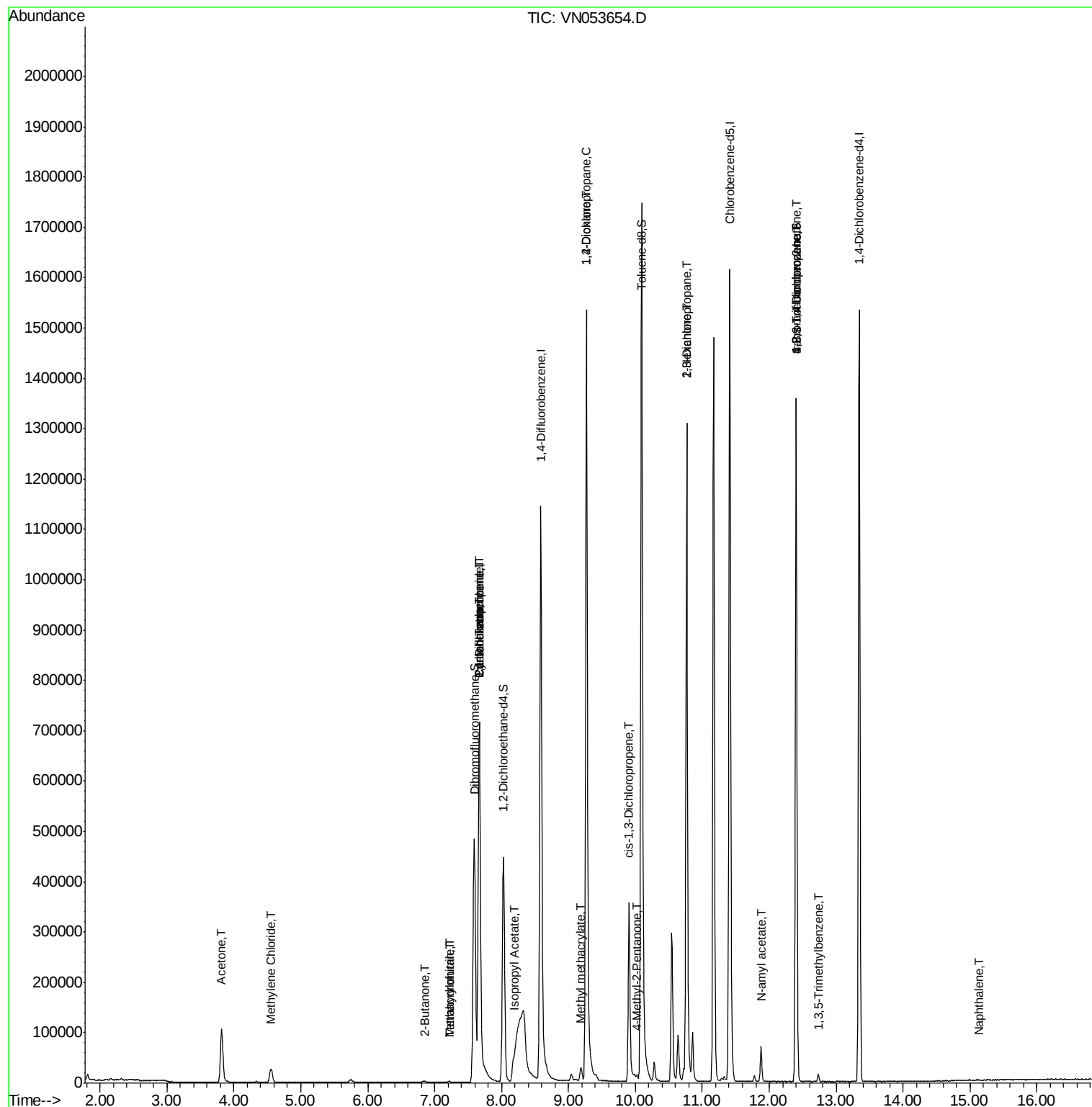
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	386656	52.77	ug/l	0.00
Spiked Amount						
			Recovery	=	105.54%	
35) Dibromofluoromethane	7.59	113	379659	50.28	ug/l	0.00
Spiked Amount						
			Recovery	=	100.56%	
50) Toluene-d8	10.09	98	1446010	51.00	ug/l	0.00
Spiked Amount						
			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	12.40	95	476478	50.39	ug/l	0.00
Spiked Amount						
			Recovery	=	100.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	177792	94.590	ug/l	98
20) Methylene Chloride	4.55	84	21369	2.710	ug/l	99
25) 2-Butanone	6.84	43	4037	1.506	ug/l	94
29) Tetrahydrofuran	7.22	42	1204	0.699	ug/l #	73
31) Cyclohexane	7.67	56	10650	0.692	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	42154	3.913	ug/l #	49
38) Carbon Tetrachloride	7.67	117	59206	5.456	ug/l #	15
41) Methacrylonitrile	7.21	41	804	0.239	ug/l #	38
43) Isopropyl Acetate	8.18	43	41286	3.554	ug/l #	51
45) 1,2-Dichloropropane	9.27	63	2097	0.247	ug/l #	43
48) Methyl methacrylate	9.18	41	11497	2.073	ug/l #	12
49) 1,4-Dioxane	9.26	88	104	40.342	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7964	1.395	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	76909	6.087	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	14432	1.189	ug/l #	43
59) 2-Hexanone	10.77	43	192774	49.737	ug/l #	49
74) N-amyl acetate	11.88	43	21927	2.887	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	219721	38.069	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7960	0.304	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	219721	107.048	ug/l #	15
95) Naphthalene	15.13	128	158	1.744	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053654.D

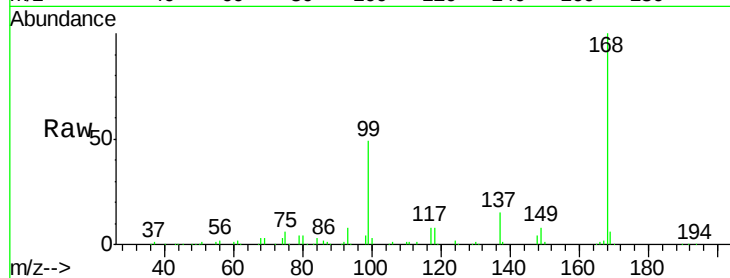
Acq: 7 Feb 2019 14:33

Tot Ion:168 Resp: 730448

Ion Ratio Lower Upper

168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

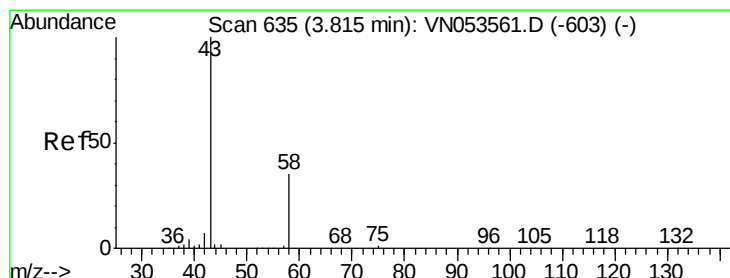
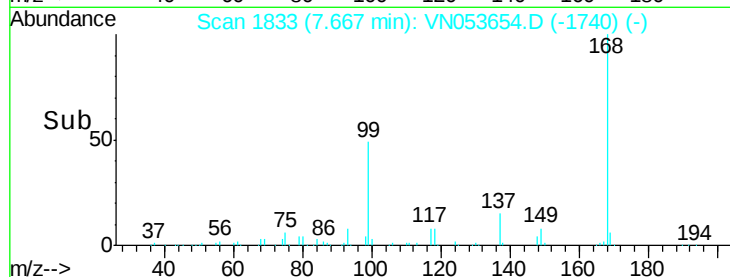
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 94.590 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053654.D

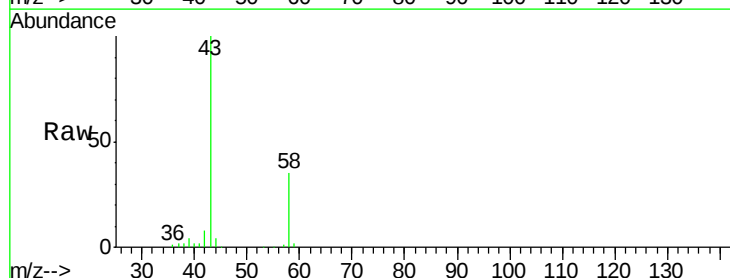
Acq: 7 Feb 2019 14:33

Tgt Ion: 43 Resp: 177792

Ion Ratio Lower Upper

43 100

58 34.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

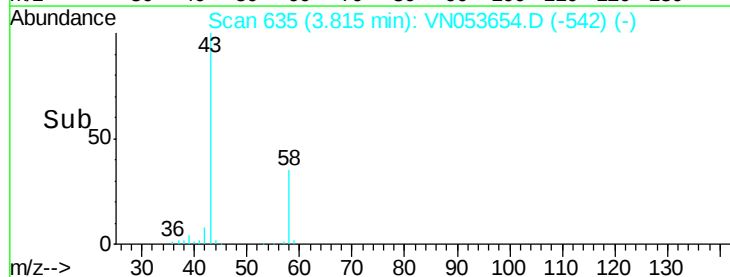
60000

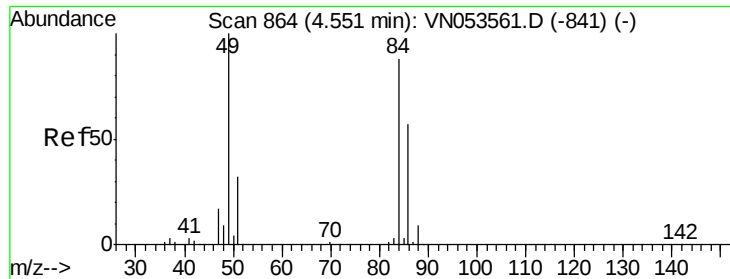
40000

20000

0

Time--> 3.70 3.80 3.90

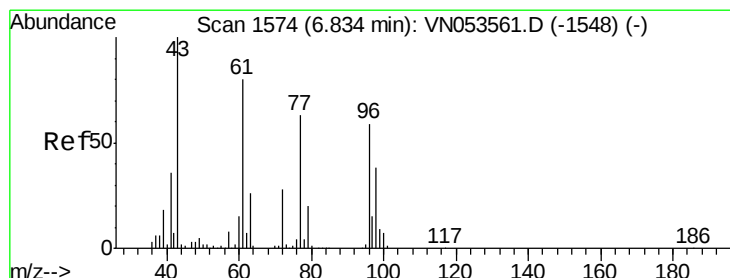
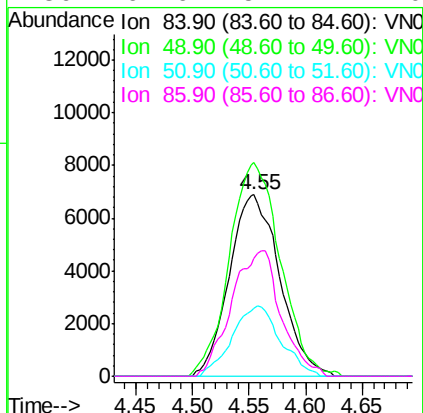
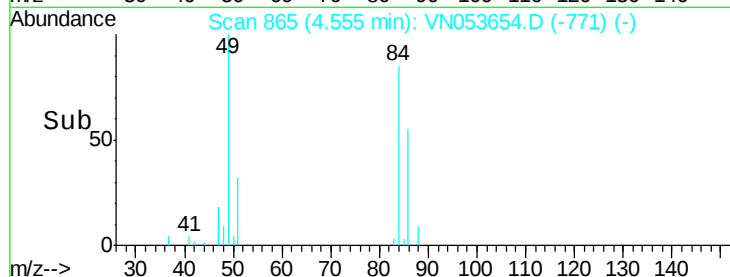
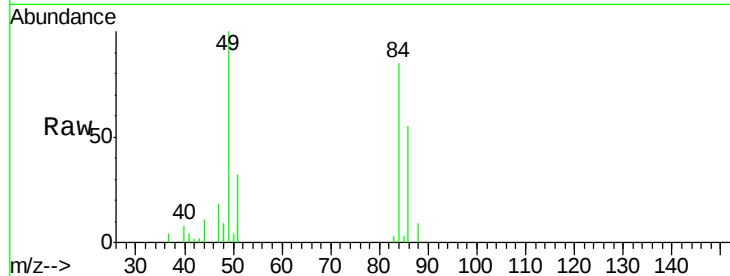




#20
Methvlene Chloride
Concen: 2.710 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

Tot Ion: 84 Resp: 21369

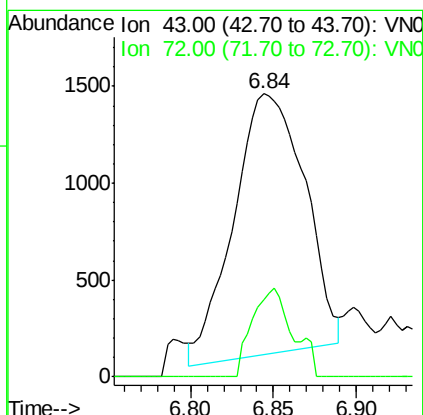
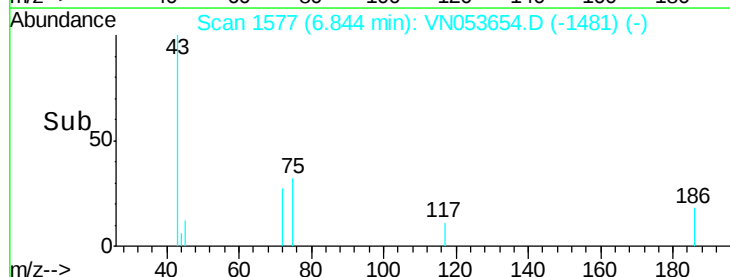
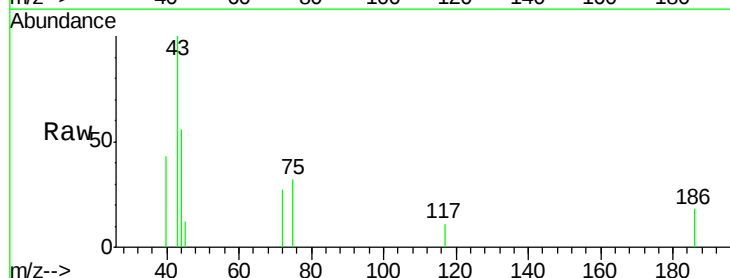
Ion	Ratio	Lower	Upper
84	100		
49	117.5	94.3	141.5
51	37.4	29.4	44.2
86	64.6	51.4	77.0

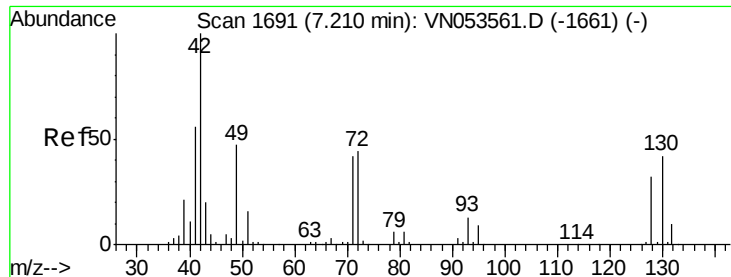


#25
2-Butanone
Concen: 1.506 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

Tgt Ion: 43 Resp: 4037

Ion	Ratio	Lower	Upper
43	100		
72	30.8	22.0	33.0





#29

Tetrahydrofuran

Concen: 0.699 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

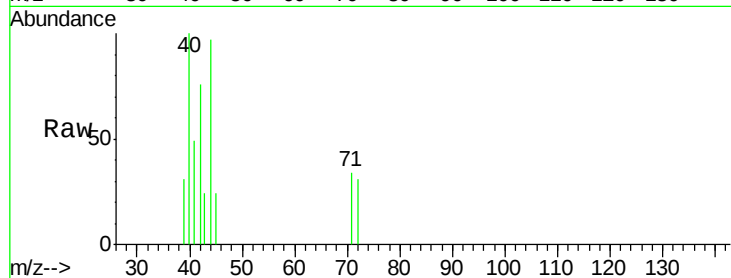
Tot Ion: 42 Resp: 1204

Ion Ratio Lower Upper

42 100

72 26.7 35.2 52.8#

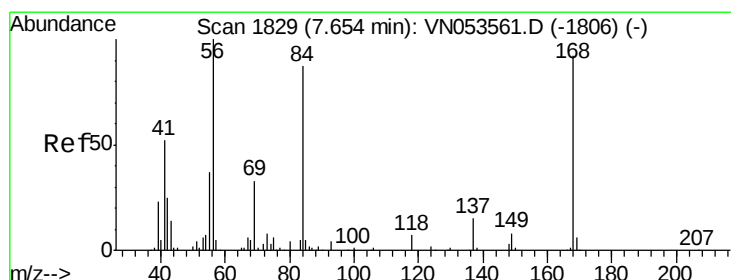
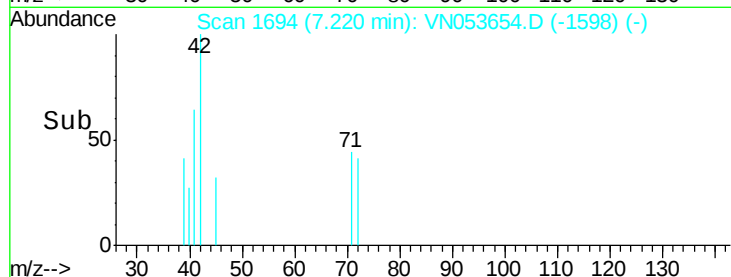
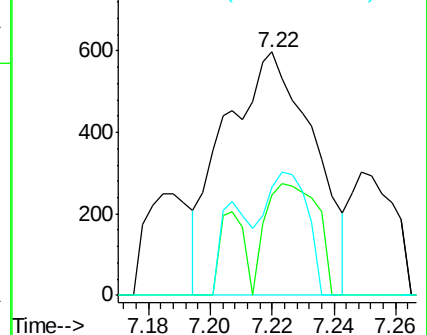
71 24.0 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.692 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

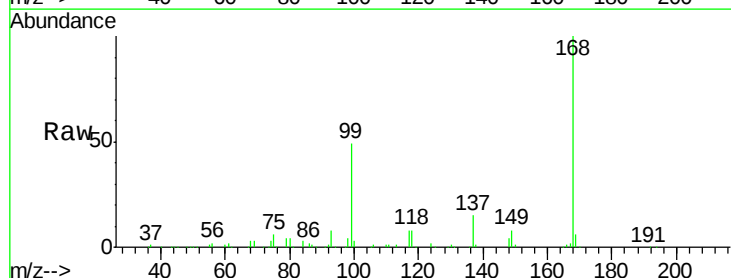
Tgt Ion: 56 Resp: 10650

Ion Ratio Lower Upper

56 100

69 177.6 26.4 39.6#

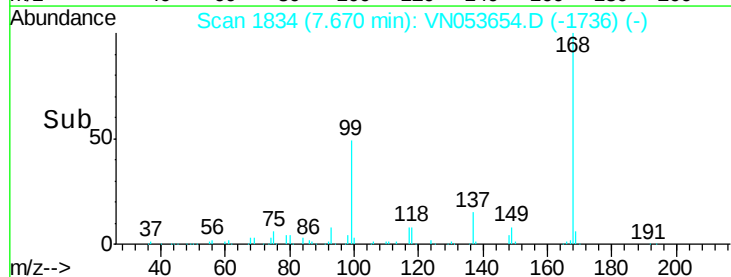
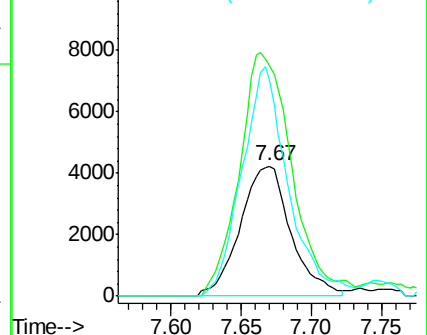
84 166.8 67.9 101.9#

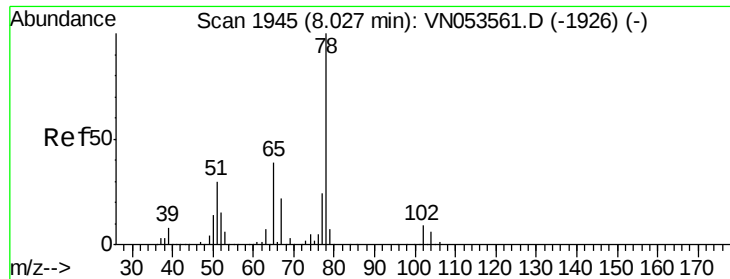


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

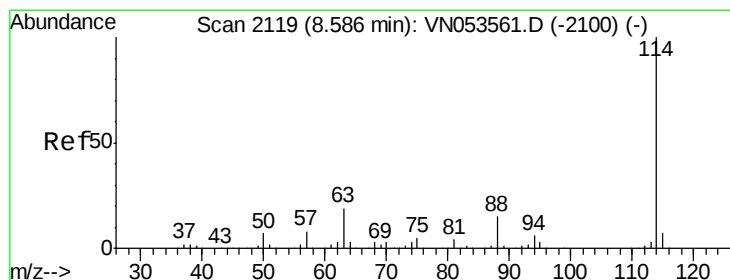
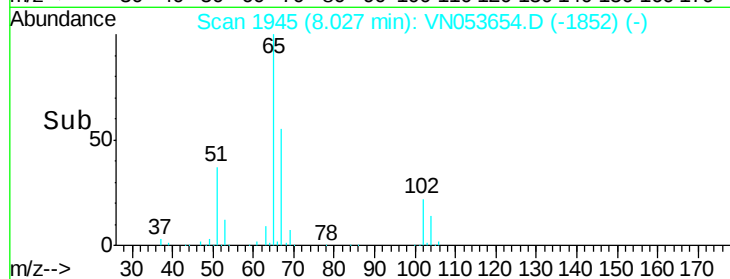
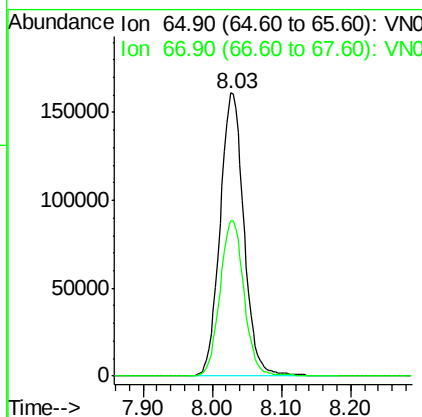
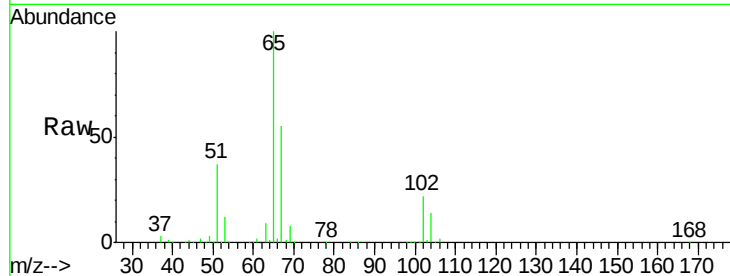
Ion 84.00 (83.70 to 84.70): VN0





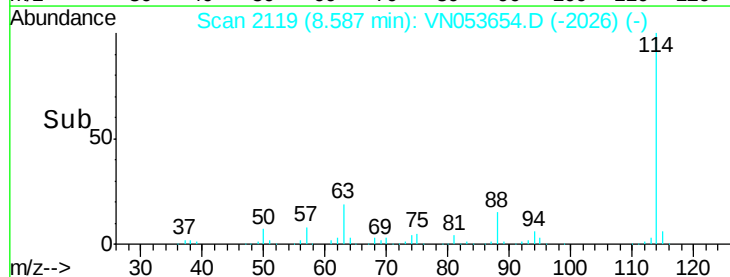
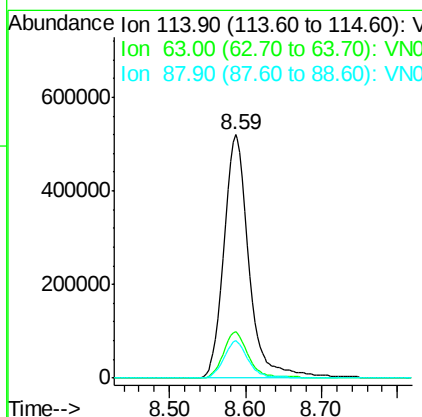
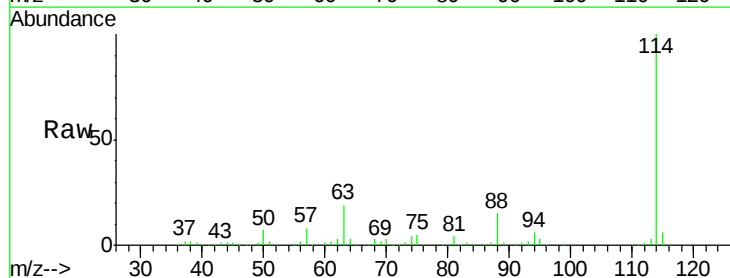
#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053654.D
 Acq: 7 Feb 2019 14:33

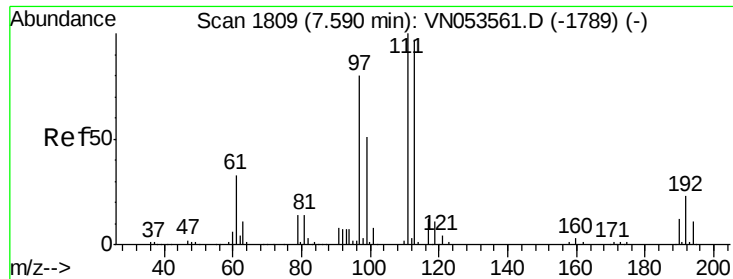
Tot Ion: 65 Resp: 386656
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053654.D
 Acq: 7 Feb 2019 14:33

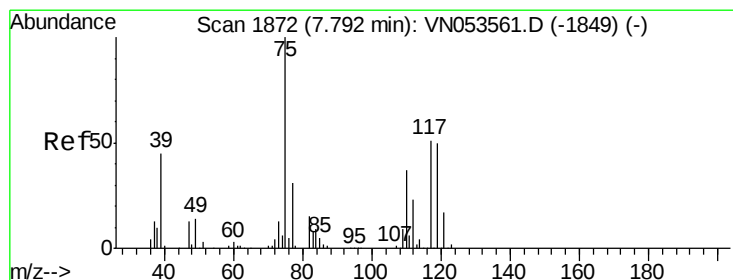
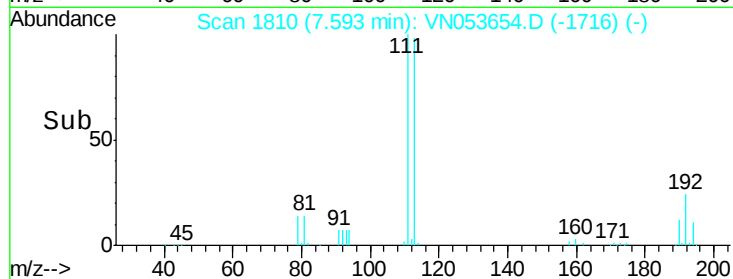
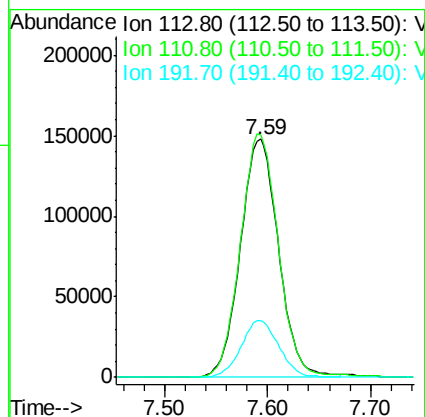
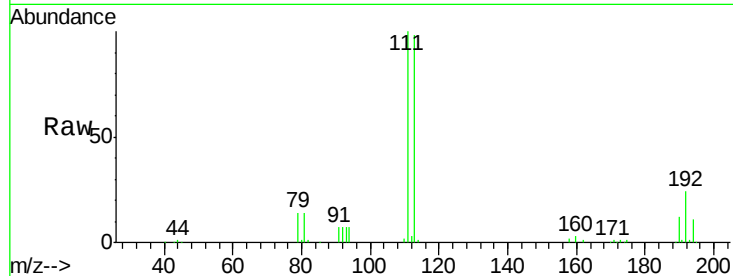
Tgt Ion: 114 Resp: 1194948
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.3 0.0 30.4





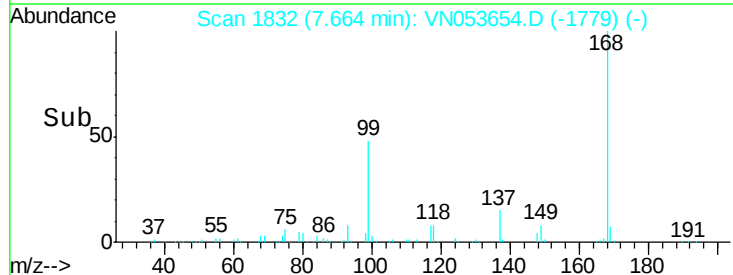
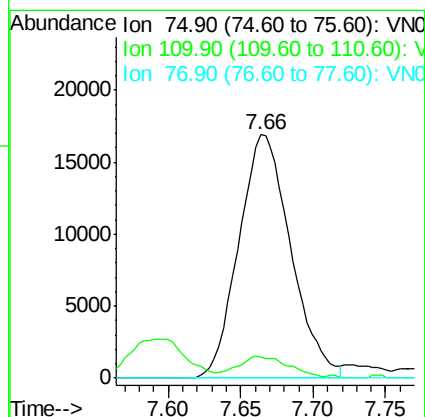
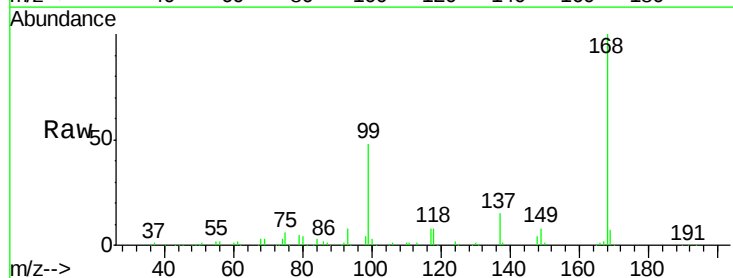
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053654.D
 Acq: 7 Feb 2019 14:33

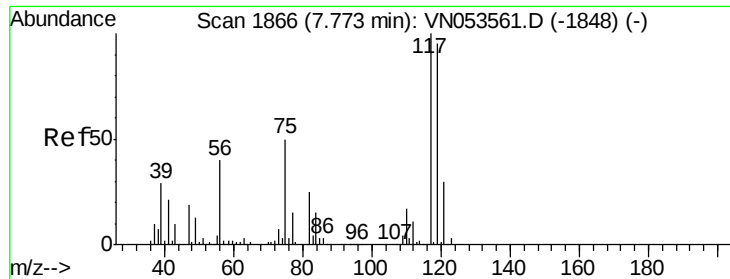
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.1	121.7
192	23.7	18.2	27.2



#36
 1,1-Dichloropropene
 Concen: 3.913 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053654.D
 Acq: 7 Feb 2019 14:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.3#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 5.456 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

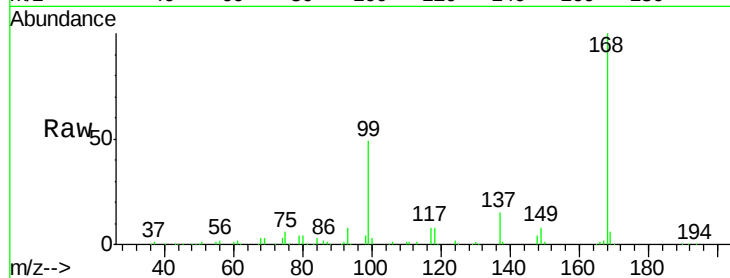
Tot Ion:117 Resp: 59206

Ion Ratio Lower Upper

117 100

119 4.8 77.2 115.8#

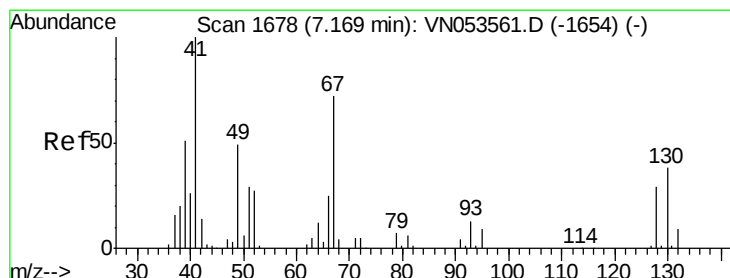
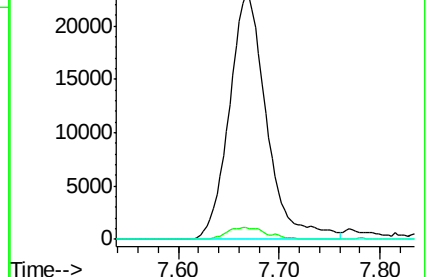
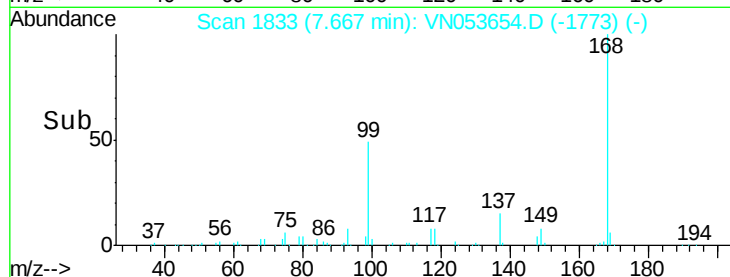
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.239 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.05 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

Tgt Ion: 41 Resp: 804

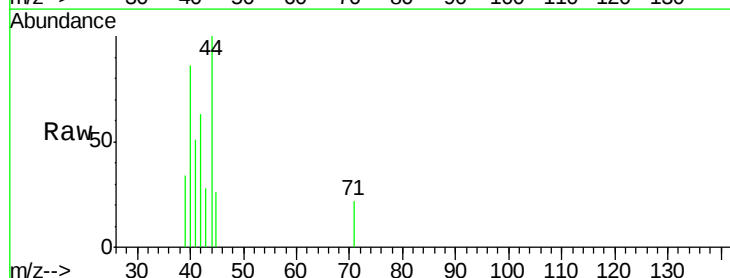
Ion Ratio Lower Upper

41 100

39 38.7 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

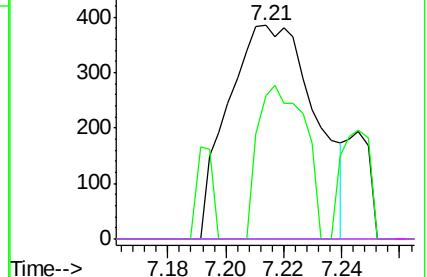
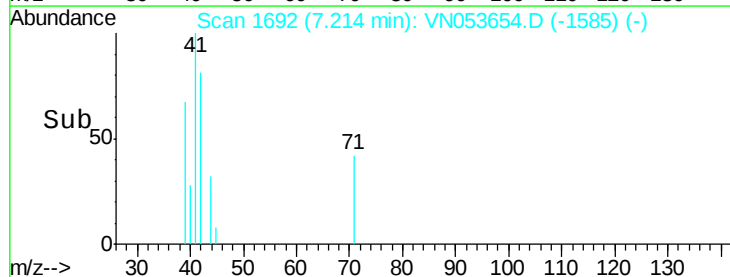


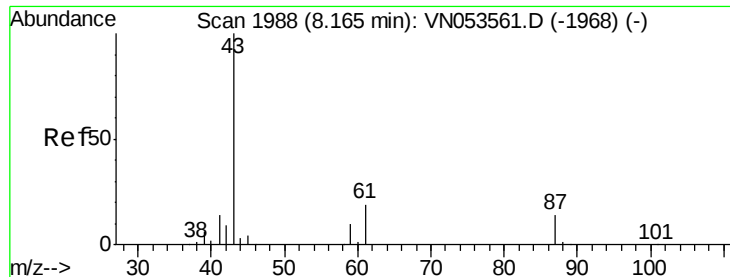
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 3.554 ug/l

RT: 8.18 min Scan# 1993

Delta R.T. 0.02 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

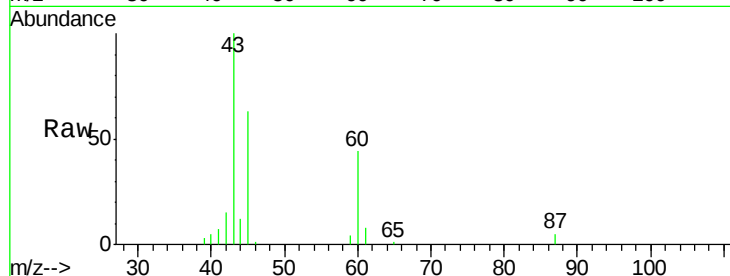
Tot Ion: 43 Resp: 41286

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

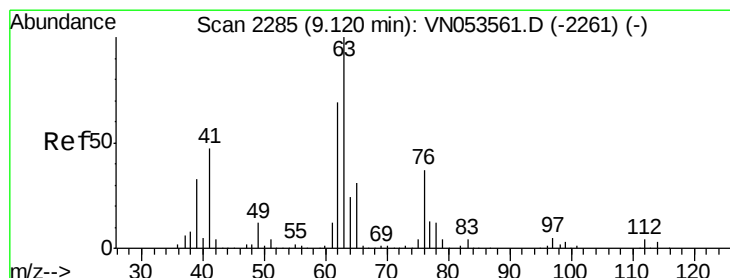
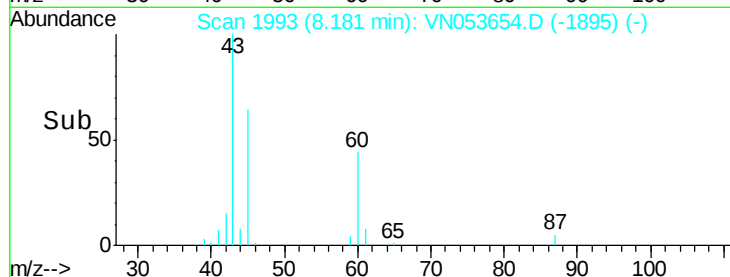
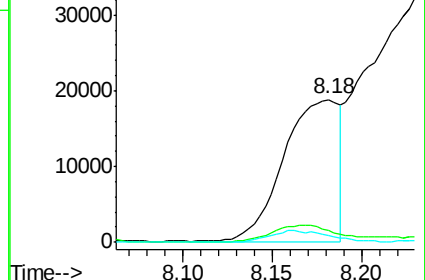
87 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN053654.D (-1993) (-)

Ion 61.00 (60.70 to 61.70): VN053654.D (-1993) (-)

Ion 87.00 (86.70 to 87.70): VN053654.D (-1993) (-)



#45

1,2-Dichloropropane

Concen: 0.247 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053654.D

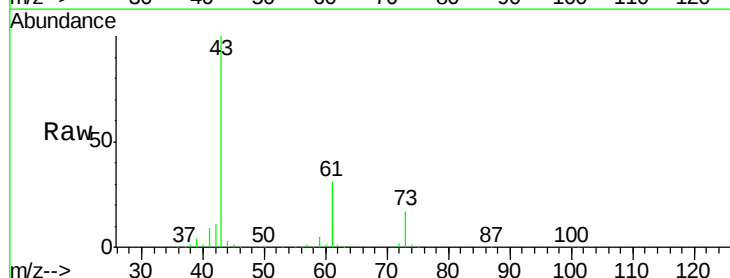
Acq: 7 Feb 2019 14:33

Tgt Ion: 63 Resp: 2097

Ion Ratio Lower Upper

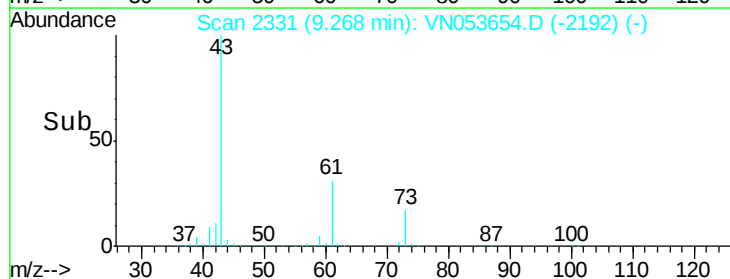
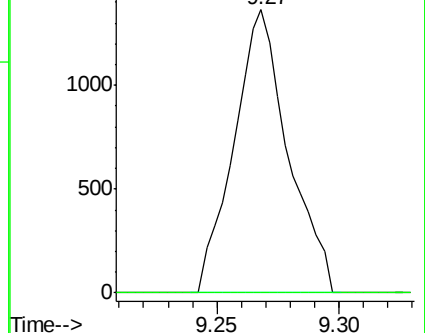
63 100

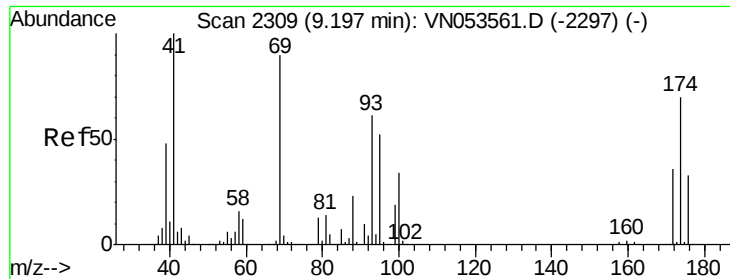
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN053654.D (-2331) (-)

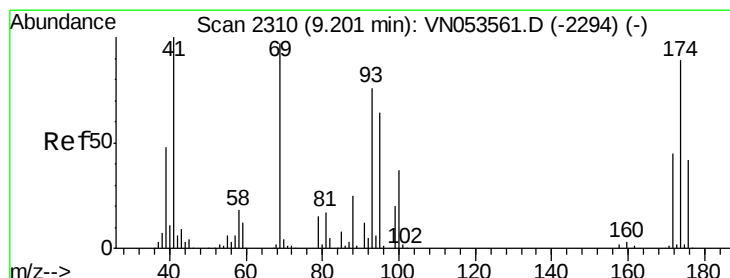
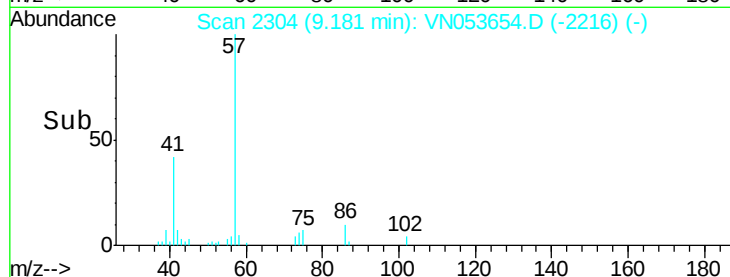
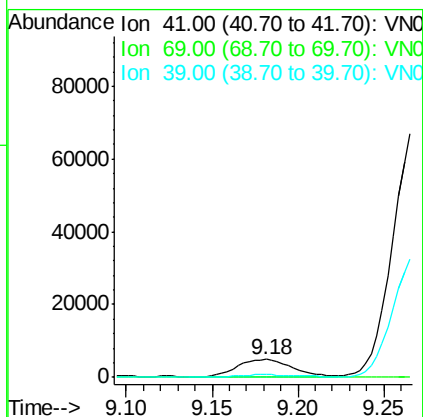
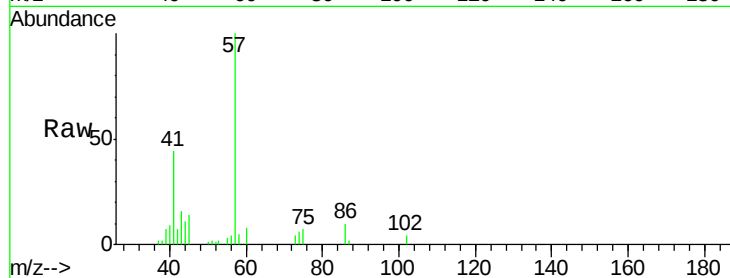
Ion 64.90 (64.60 to 65.60): VN053654.D (-2331) (-)





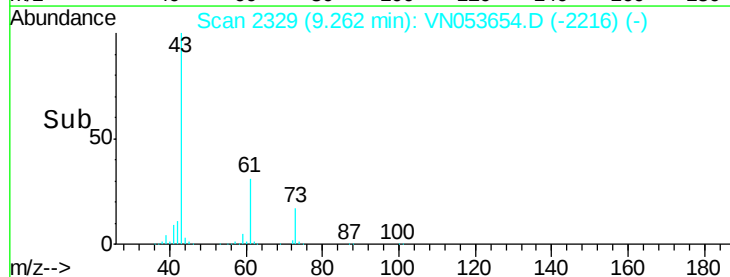
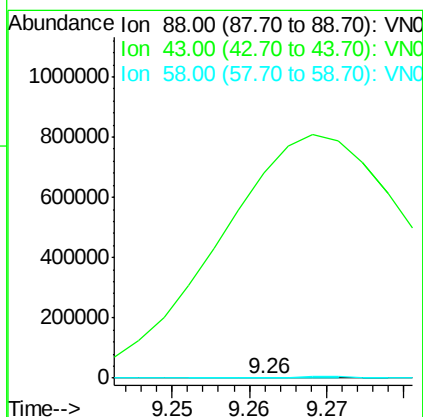
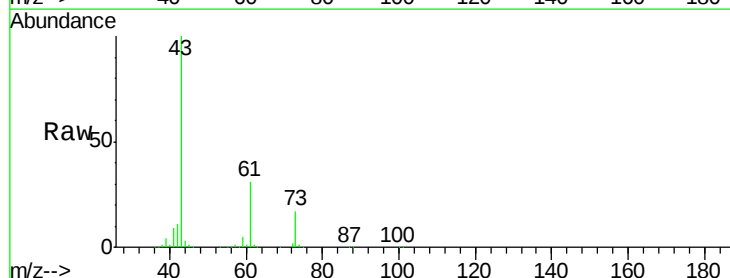
#48
Methvl methacrylate
Concen: 2.073 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

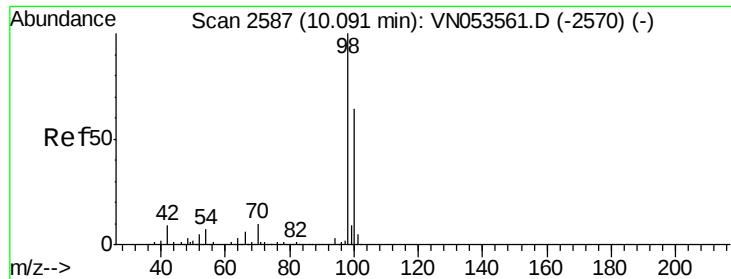
Tot Ion: 41 Resp: 11497
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 40.342 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 1579783.7 27.8 41.6#
58 7717.3 56.5 84.7#





#50

Toluene-d8

Concen: 40.342 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053654.D

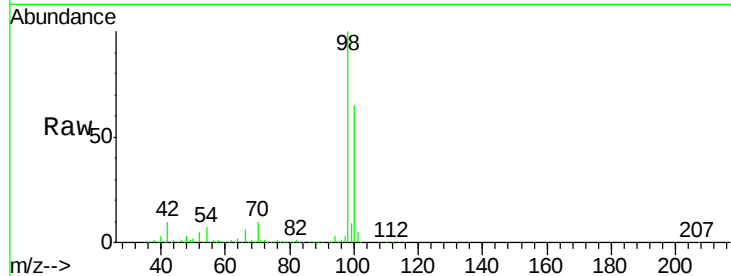
Acq: 7 Feb 2019 14:33

Tot Ion: 98 Resp: 1446010

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053654.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053654.D (-2570) (-)

10.09

800000

600000

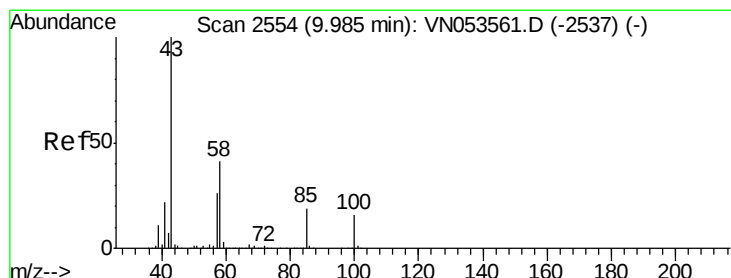
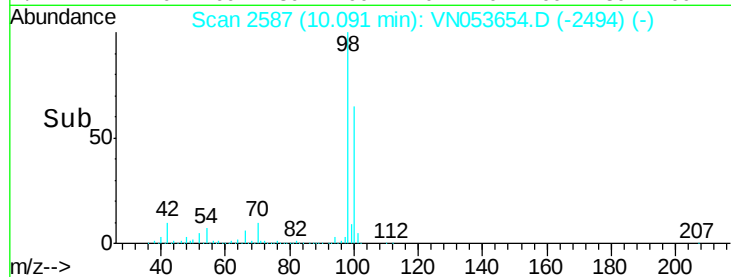
400000

200000

0

Time-->

10.00 10.10 10.20 10.30



#51

4-Methyl-2-Pentanone

Concen: 1.395 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053654.D

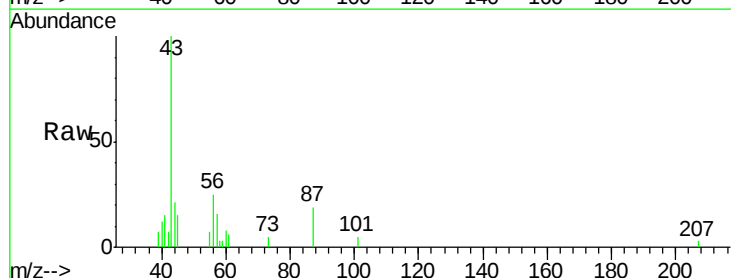
Acq: 7 Feb 2019 14:33

Tgt Ion: 43 Resp: 7964

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053654.D (-2461) (-)

Ion 58.00 (57.70 to 58.70): VN053654.D (-2461) (-)

10.02

6000

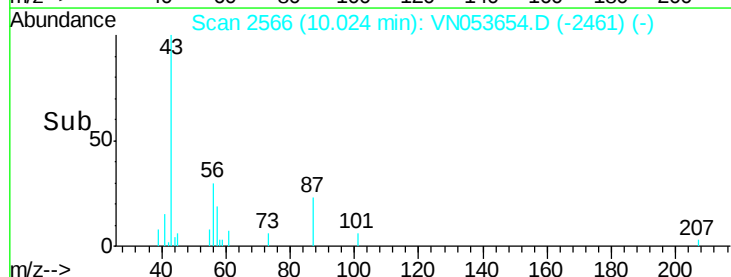
4000

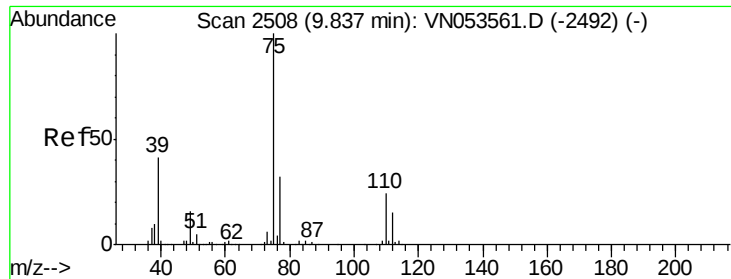
2000

0

Time-->

10.00 10.05





#54

cis-1,3-Dichloropropene

Concen: 6.087 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

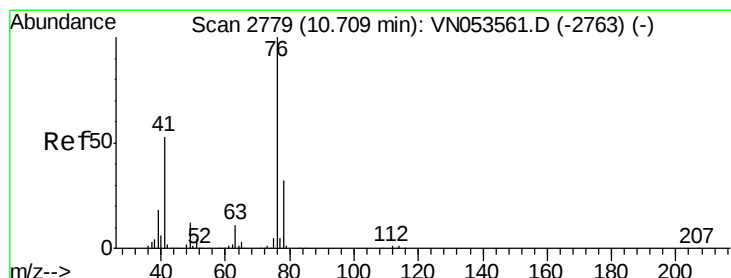
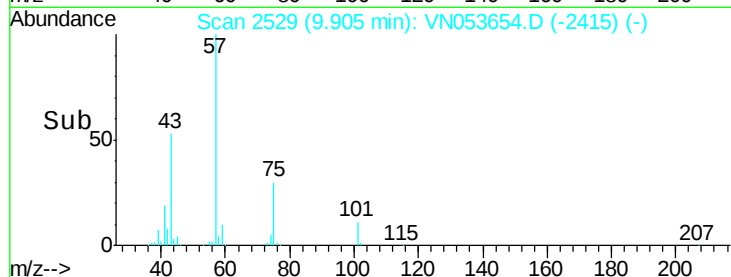
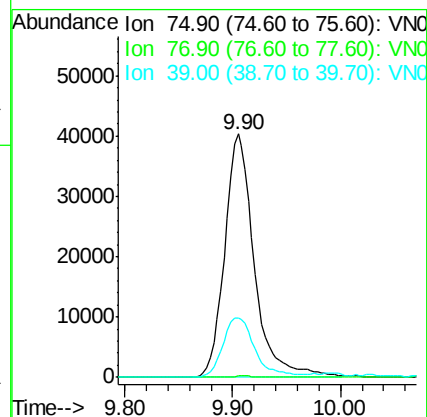
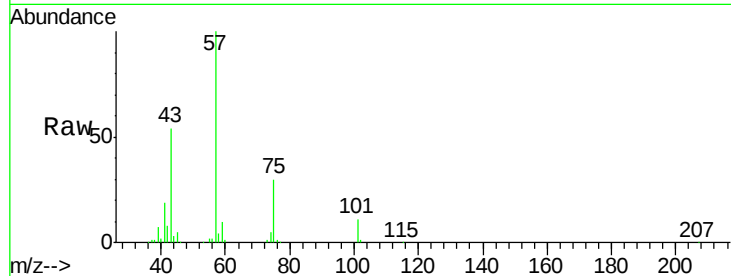
Tot Ion: 75 Resp: 76909

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 24.5 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 1.189 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053654.D

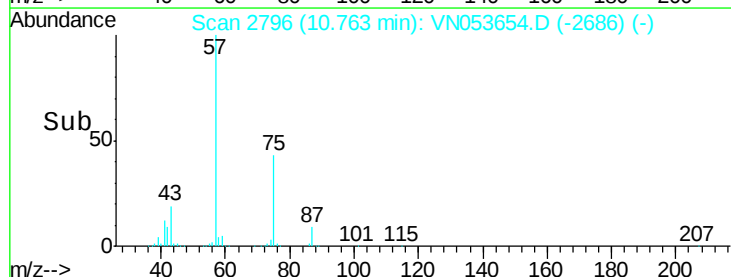
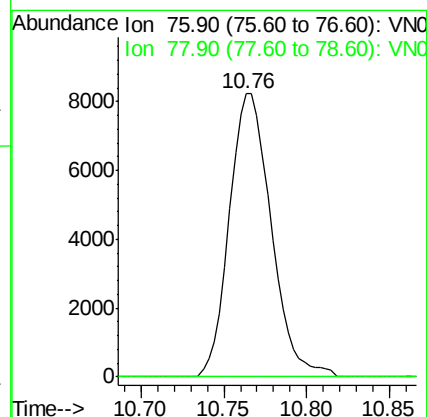
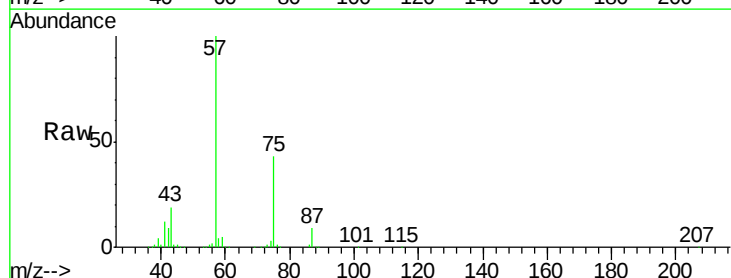
Acq: 7 Feb 2019 14:33

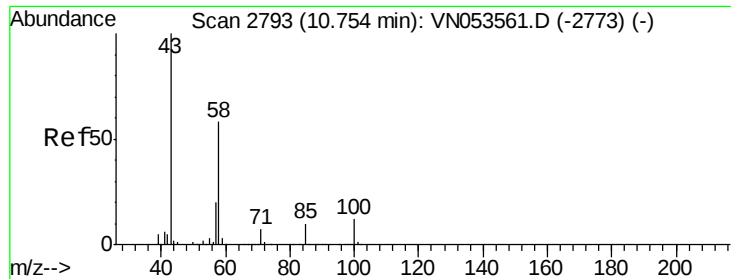
Tgt Ion: 76 Resp: 14432

Ion Ratio Lower Upper

76 100

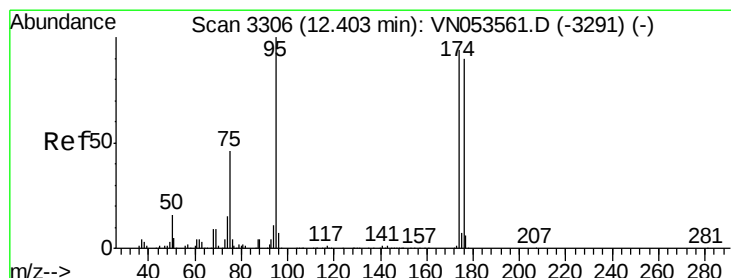
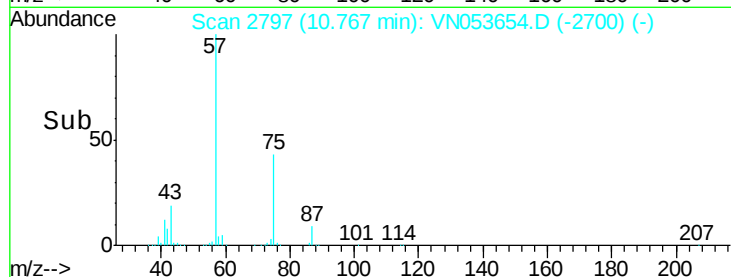
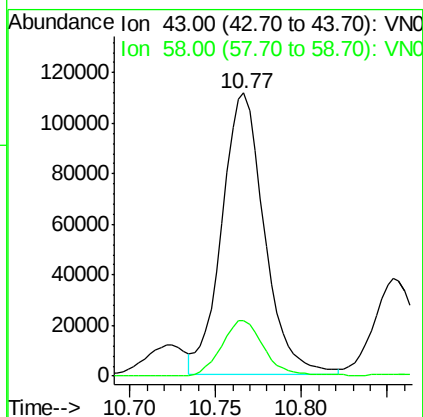
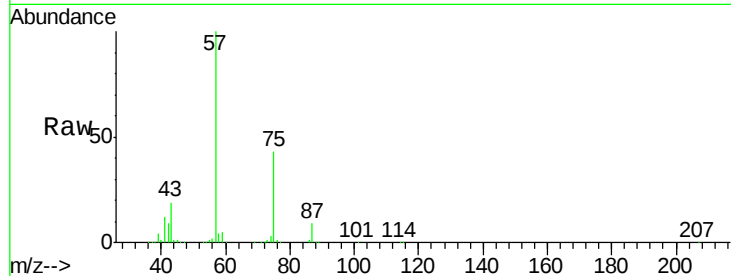
78 0.0 25.6 38.4#





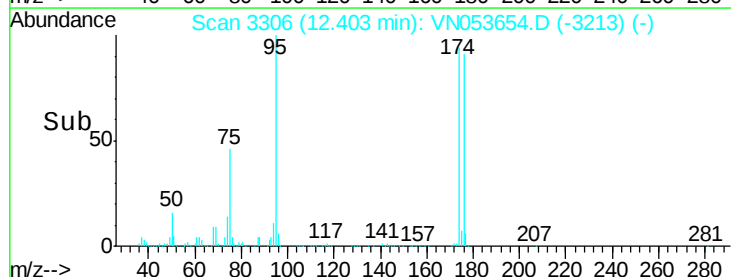
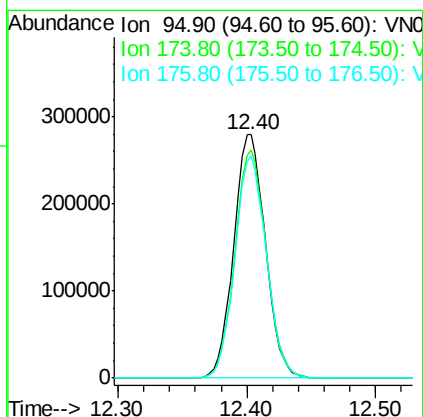
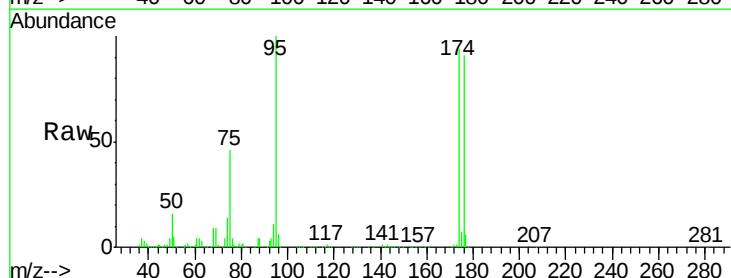
#59
2-Hexanone
Concen: 49.737 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

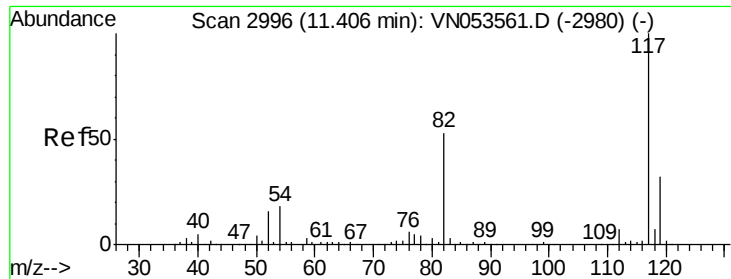
Tot Ion: 43 Resp: 192774
Ion Ratio Lower Upper
43 100
58 19.9 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

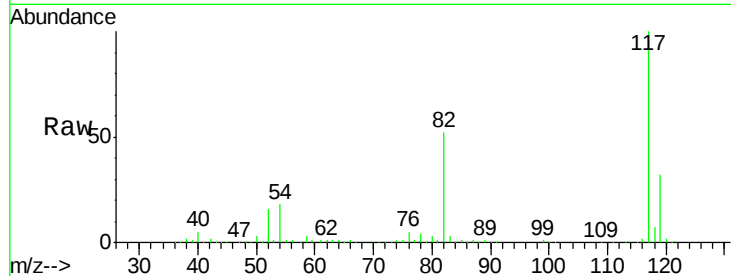
Tgt Ion: 95 Resp: 476478
Ion Ratio Lower Upper
95 100
174 93.7 0.0 183.2
176 90.4 0.0 177.4



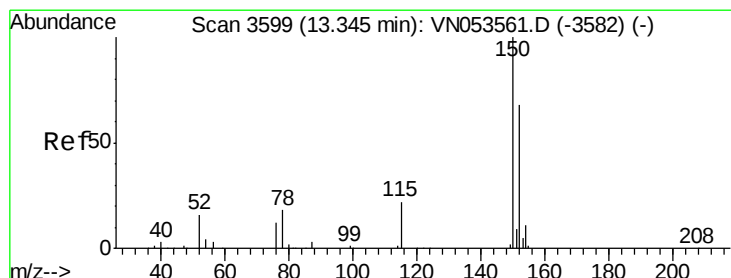
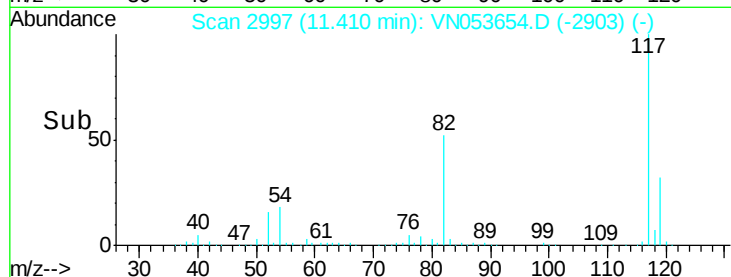
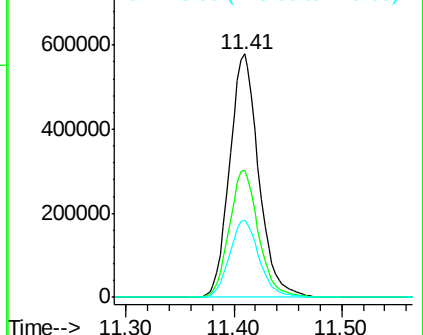


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

Tot Ion:117 Resp: 1089980
Ion Ratio Lower Upper
117 100
82 52.3 42.9 64.3
119 31.8 26.0 39.0

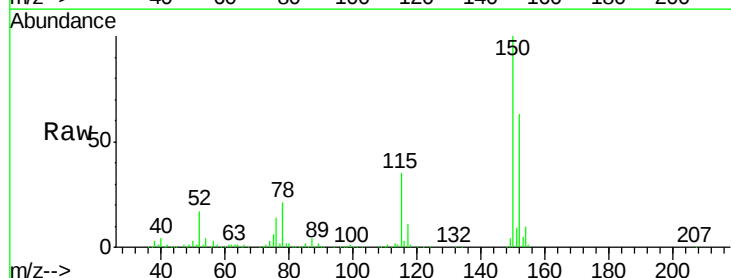


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

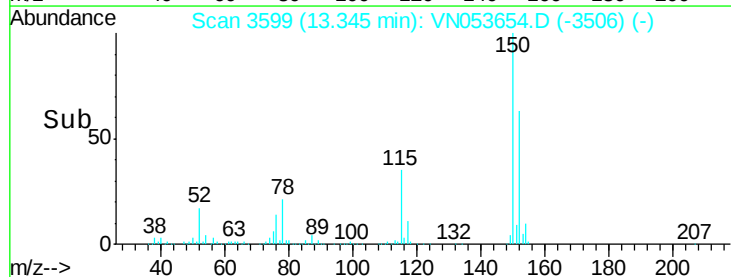
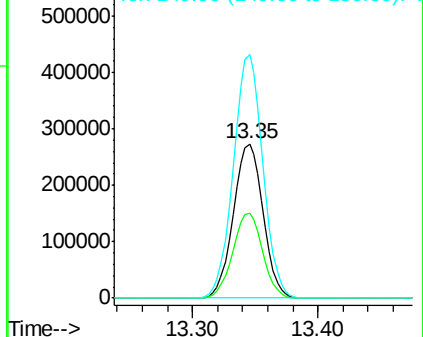


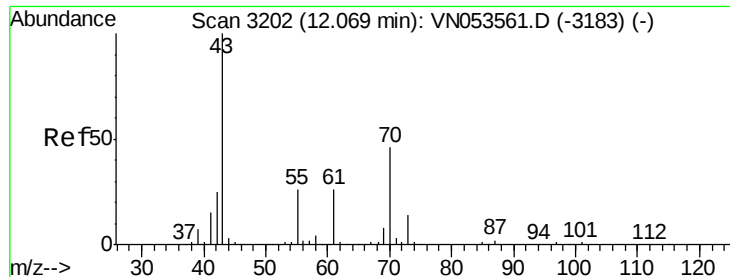
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053654.D
Acq: 7 Feb 2019 14:33

Tgt Ion:152 Resp: 449348
Ion Ratio Lower Upper
152 100
115 55.0 27.8 83.4
150 156.6 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-amvl acetate

Concen: 2.887 ug/l

RT: 11.88 min Scan# 3143

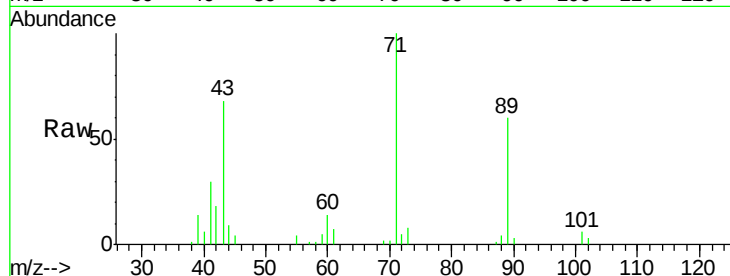
Delta R.T. -0.19 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

Tot Ion: 43 Resp: 21927

Ion	Ratio	Lower	Upper
43	100		
70	2.1	35.4	53.2#
55	5.0	20.9	31.3#
61	10.8	20.5	30.7#



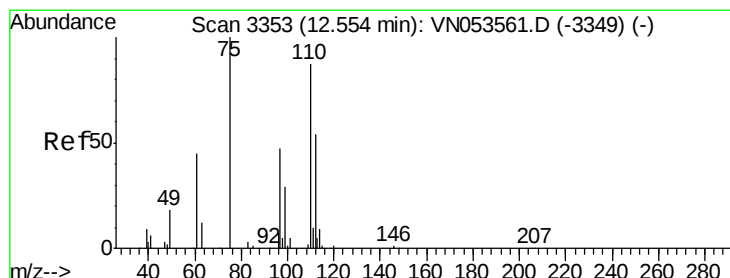
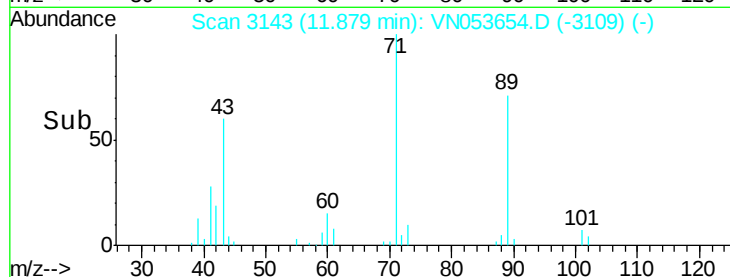
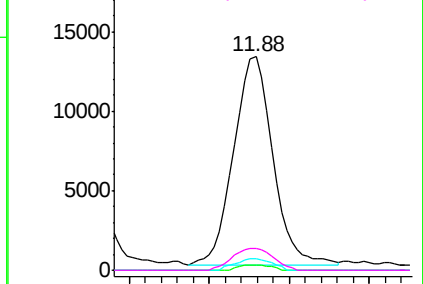
Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 38.069 ug/l

RT: 12.40 min Scan# 3305

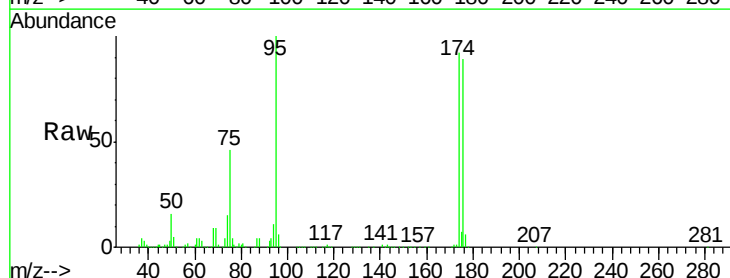
Delta R.T. -0.15 min

Lab File: VN053654.D

Acq: 7 Feb 2019 14:33

Tgt Ion: 75 Resp: 219721

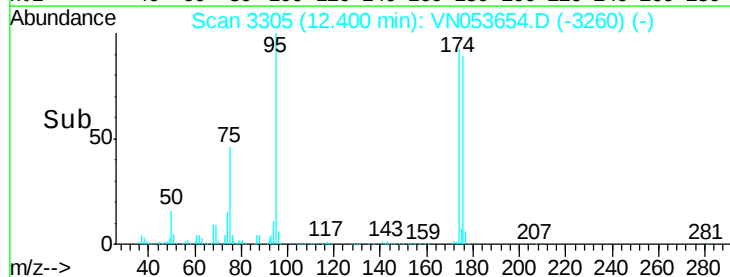
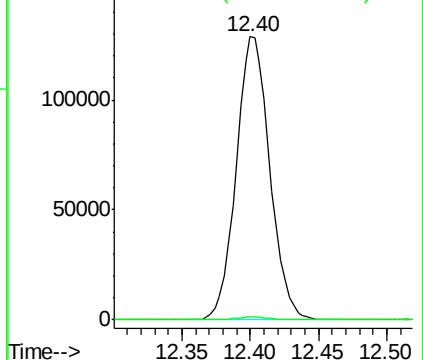
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#

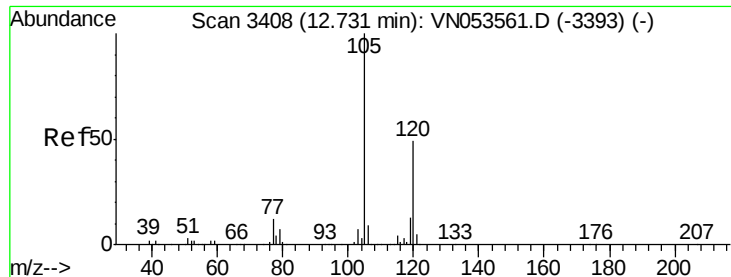


Abundance

Ion 74.90 (74.60 to 75.60): VNO

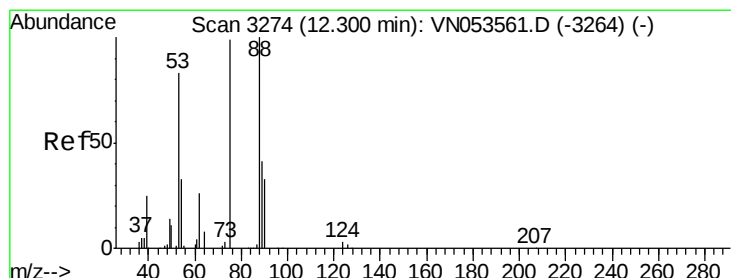
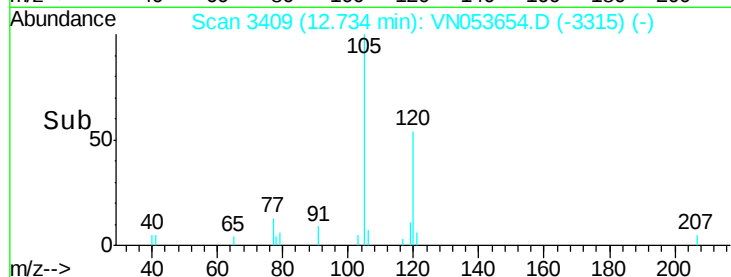
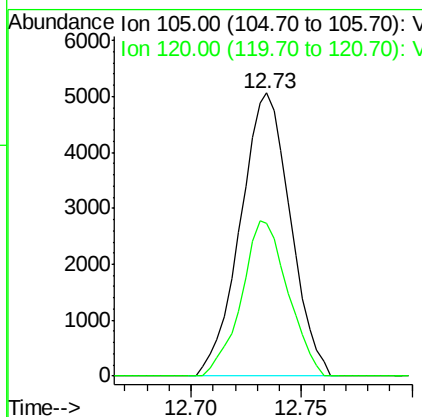
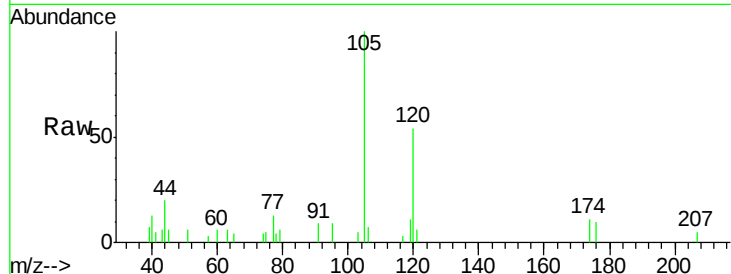
Ion 77.00 (76.70 to 77.70): VNO





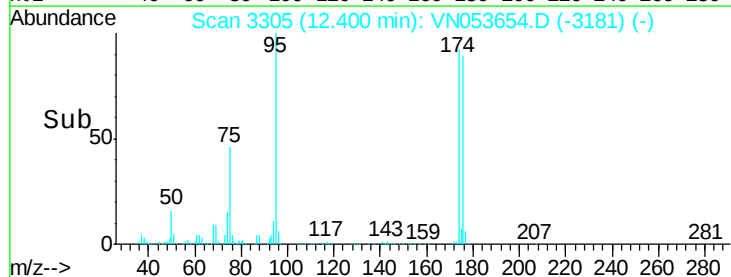
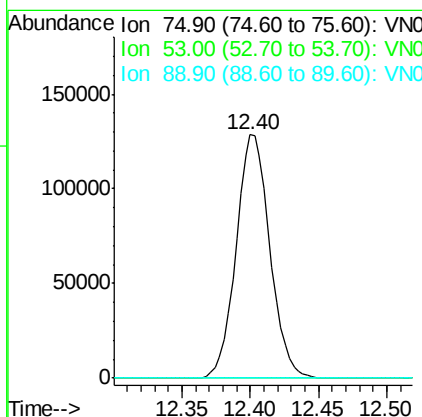
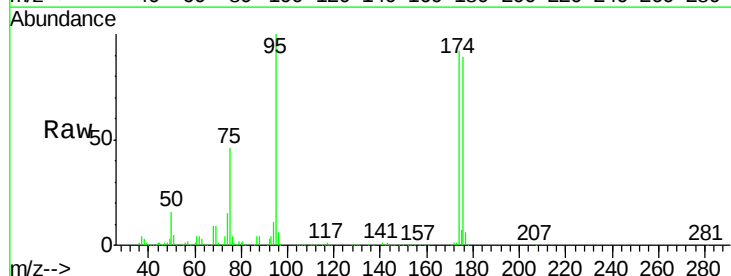
#80
 1,3,5-Trimethylbenzene
 Concen: 0.304 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053654.D
 Acq: 7 Feb 2019 14:33

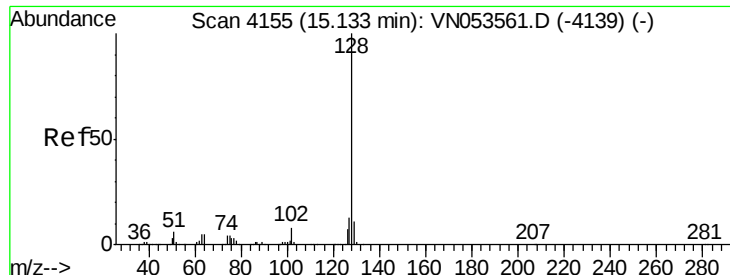
Tot Ion: 105 Resp: 7960
 Ion Ratio Lower Upper
 105 100
 120 50.8 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.048 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053654.D
 Acq: 7 Feb 2019 14:33

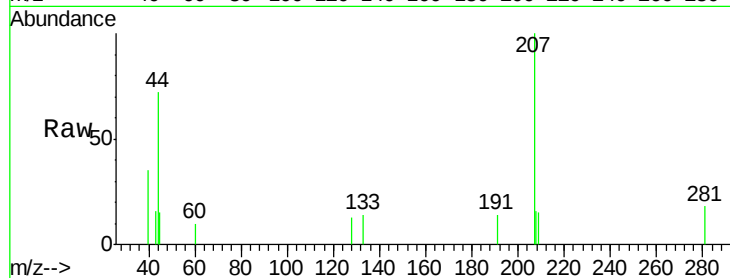
Tgt Ion: 75 Resp: 219721
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#





#95
 Naphthalene
 Concen: 1.744 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053654.D
 Acq: 7 Feb 2019 14:33

Tot Ion:128	Resp:	158
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

