

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053450.D
 Acq On : 17 Jan 2019 22:13
 Operator : JC/SP
 Sample : PB116439ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Quant Time: Jan 18 00:14:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	909905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1430034	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1370613	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	610063	50.00	ug/l	0.00

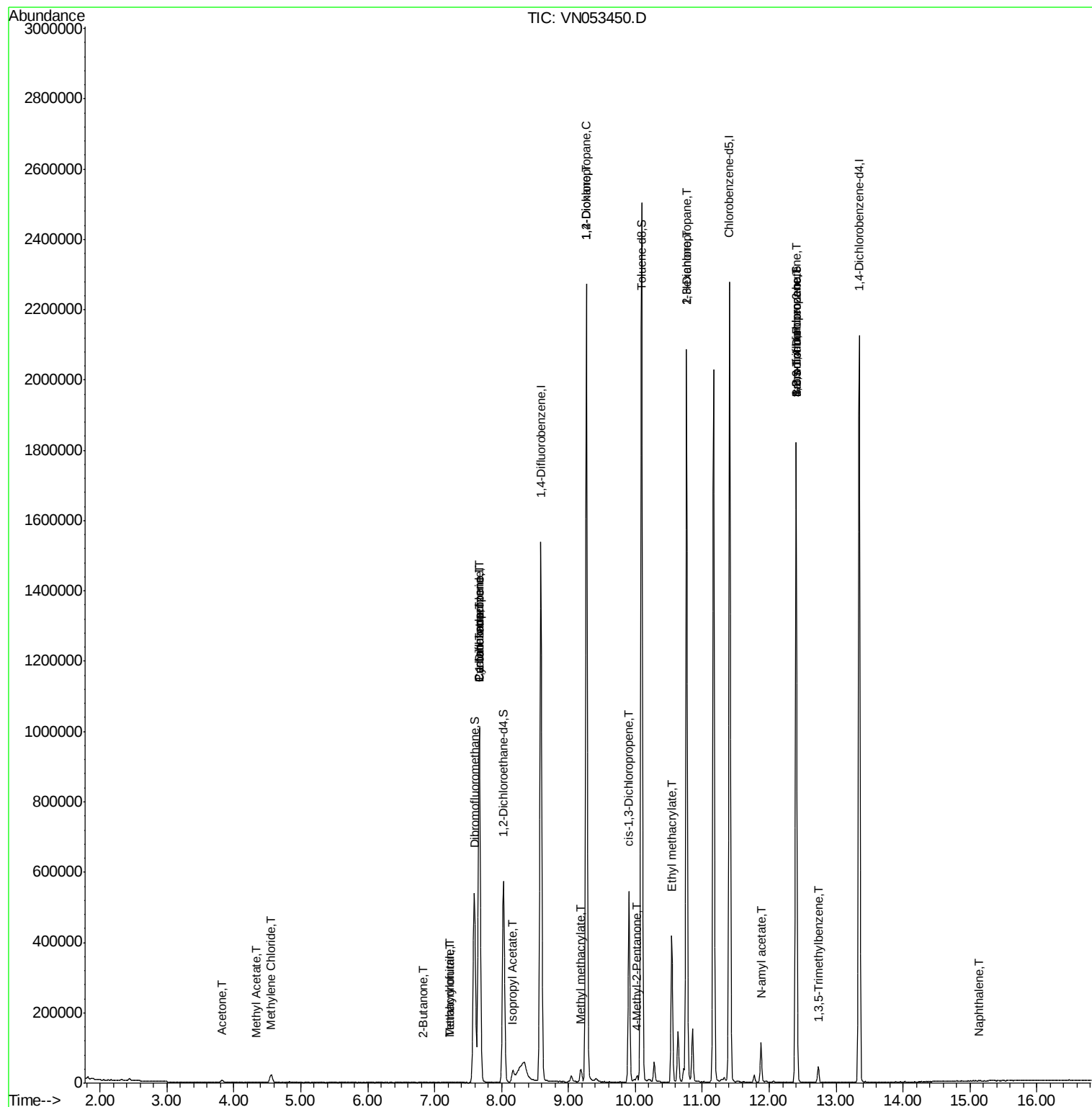
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	471984	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
35) Dibromofluoromethane	7.59	113	415012	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	
50) Toluene-d8	10.09	98	1785786	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
62) 4-Bromofluorobenzene	12.40	95	633504	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	

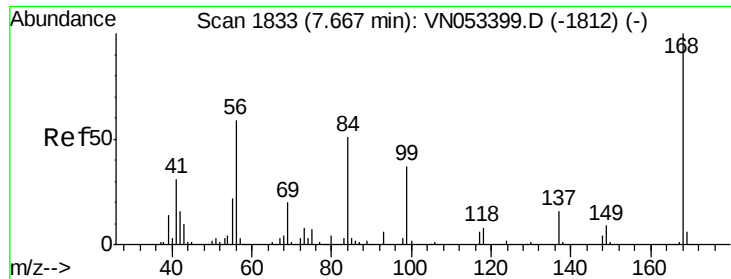
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12696	6.017	ug/l	98
18) Methyl Acetate	4.34	43	3517	0.495	ug/l #	62
20) Methylene Chloride	4.56	84	17222	1.788	ug/l	97
25) 2-Butanone	6.82	43	824	0.253	ug/l #	47
29) Tetrahydrofuran	7.22	42	1634	0.772	ug/l #	62
31) Cyclohexane	7.66	56	14229	0.680	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	57883	4.445	ug/l #	49
38) Carbon Tetrachloride	7.67	117	77056	6.250	ug/l #	16
41) Methacrylonitrile	7.22	41	961	0.880	ug/l #	30
43) Isopropyl Acetate	8.17	43	42302	3.140	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	2850	0.272	ug/l #	43
48) Methyl methacrylate	9.18	41	13185	1.895	ug/l #	12
49) 1,4-Dioxane	9.27	88	272	4.004	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	15551	2.114	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	103807	6.898	ug/l #	60
56) Ethyl methacrylate	10.54	69	1592	2.185	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	21380	1.459	ug/l #	43
59) 2-Hexanone	10.76	43	284890	55.179	ug/l #	50
71) Bromoform	12.40	173	2937	0.423	ug/l #	1
74) N-amyl acetate	11.88	43	33860	2.843	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	293842	36.550	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23043	0.634	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	293842	90.346	ug/l #	15
95) Naphthalene	15.14	128	157	3.949	ug/l #	69

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

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 28

Quant Time: Jan 18 00:14:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
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: VN053450.D

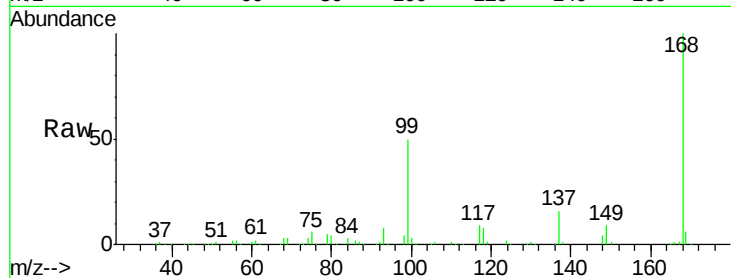
Acq: 17 Jan 2019 22:13

Tot Ion:168 Resp: 909905

Ion Ratio Lower Upper

168 100

99 50.0 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

400000

300000

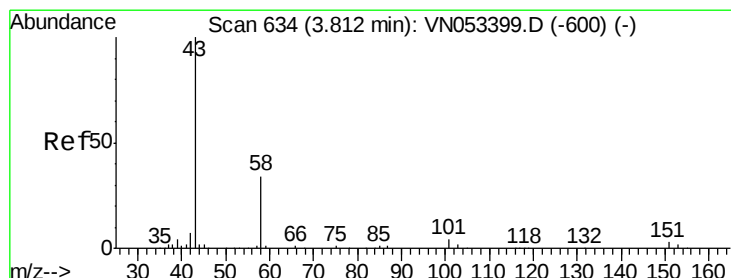
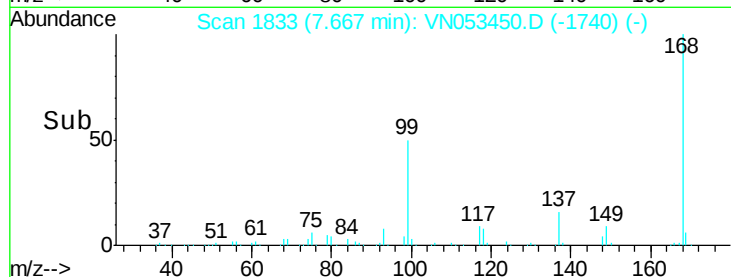
200000

100000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 6.017 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053450.D

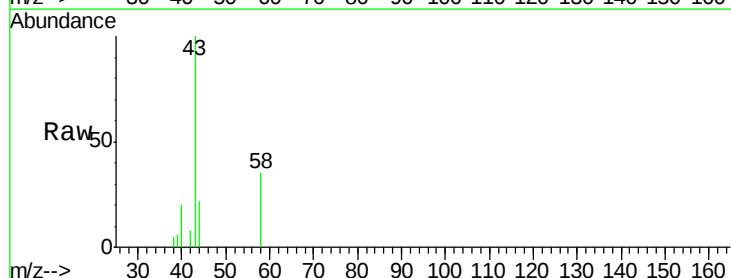
Acq: 17 Jan 2019 22:13

Tgt Ion: 43 Resp: 12696

Ion Ratio Lower Upper

43 100

58 35.3 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

5000

4000

3000

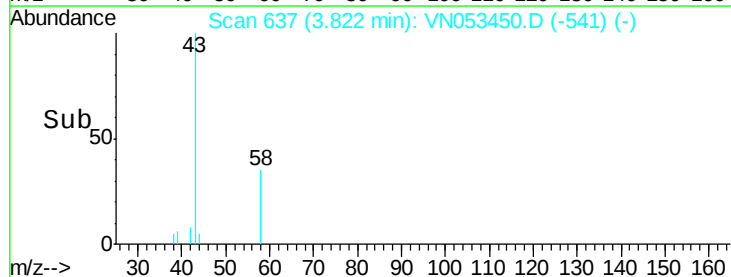
2000

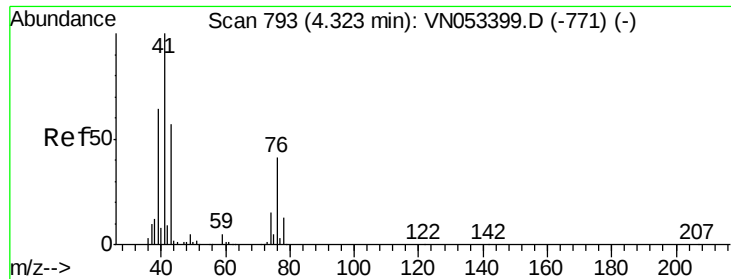
1000

0

3.70 3.80 3.90

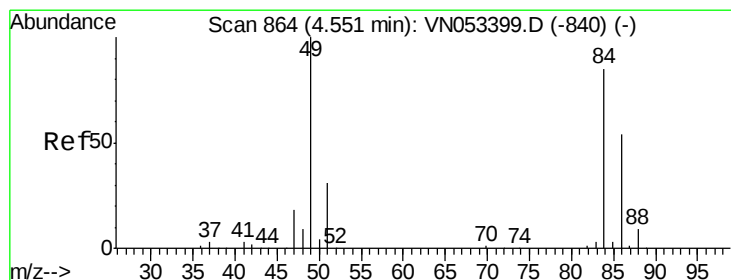
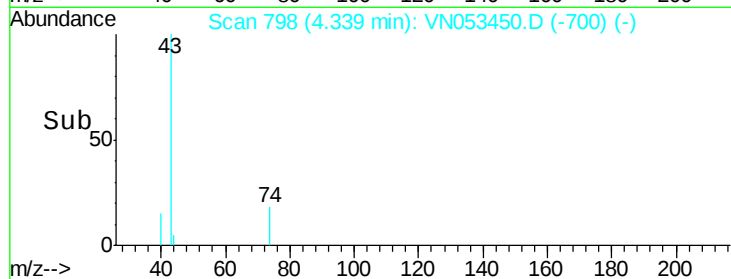
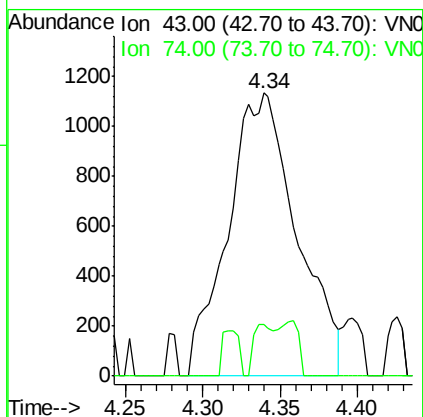
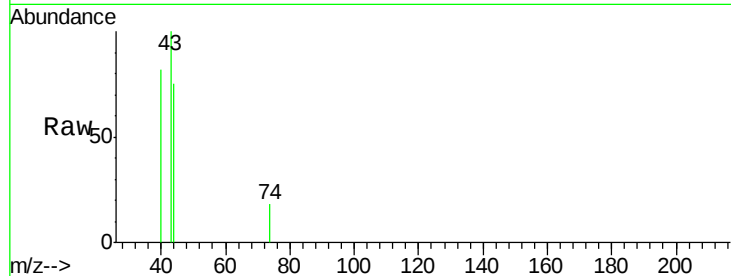
Time-->





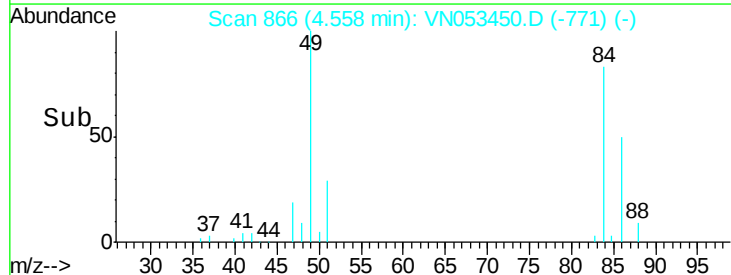
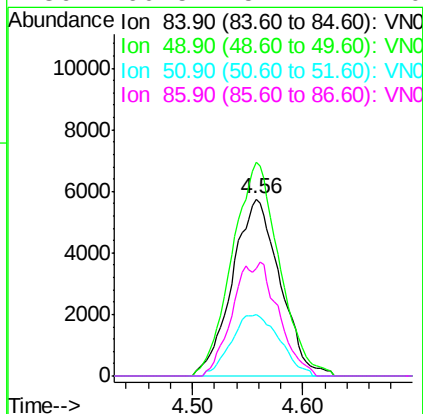
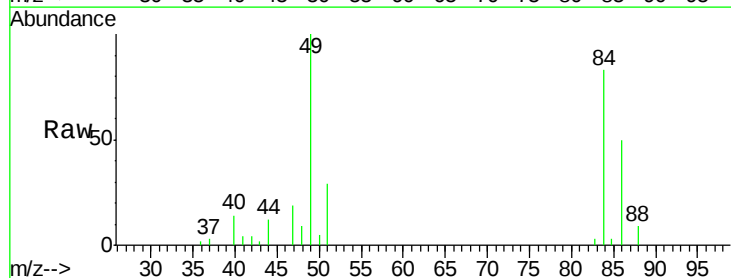
#18
Methvl Acetate
Concen: 0.495 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

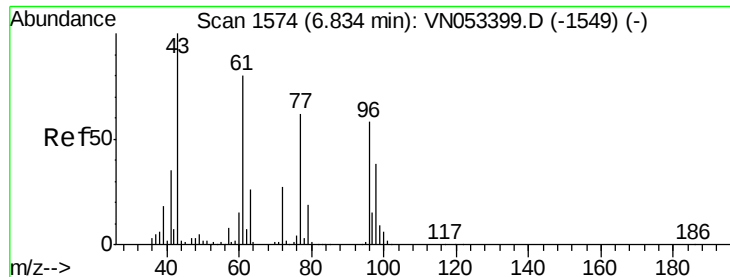
Tot Ion: 43 Resp: 3517
Ion Ratio Lower Upper
43 100
74 5.3 19.4 29.2#



#20
Methylene Chloride
Concen: 1.788 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

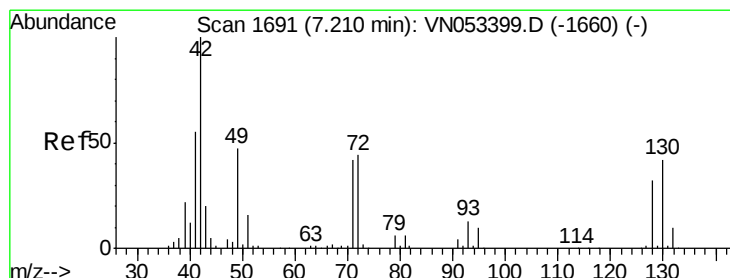
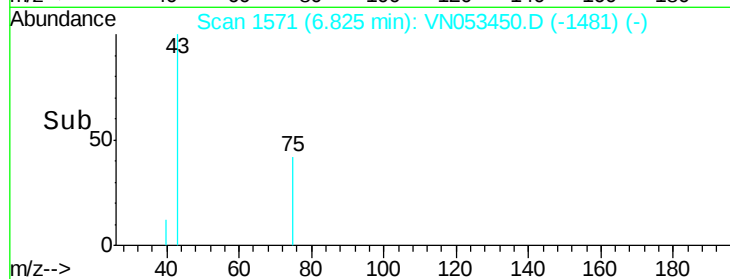
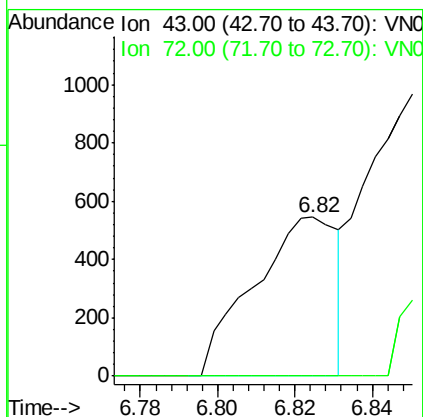
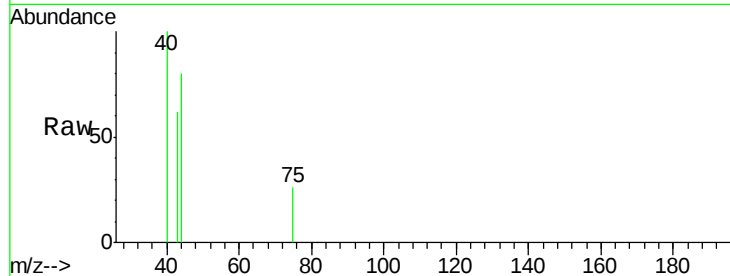
Tgt Ion: 84 Resp: 17222
Ion Ratio Lower Upper
84 100
49 120.7 94.3 141.5
51 34.7 29.4 44.2
86 60.5 51.4 77.0





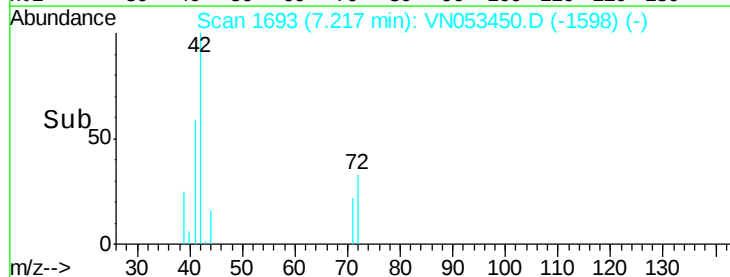
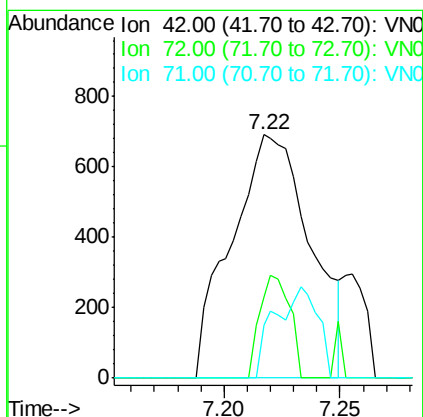
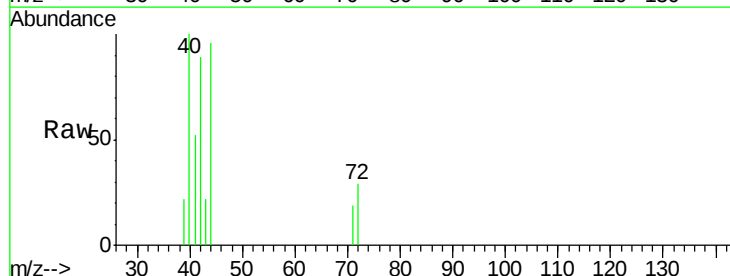
#25
2-Butanone
Concen: 0.253 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

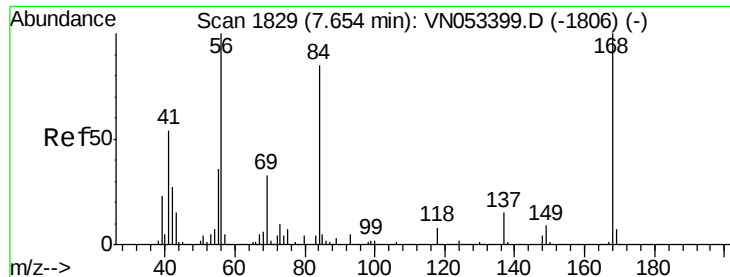
Tot Ion: 43 Resp: 824
Ion Ratio Lower Upper
43 100
72 0.0 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.772 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

Tgt Ion: 42 Resp: 1634
Ion Ratio Lower Upper
42 100
72 16.0 35.2 52.8#
71 20.6 33.0 49.4#





#31

Cyclohexane

Concen: 0.680 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

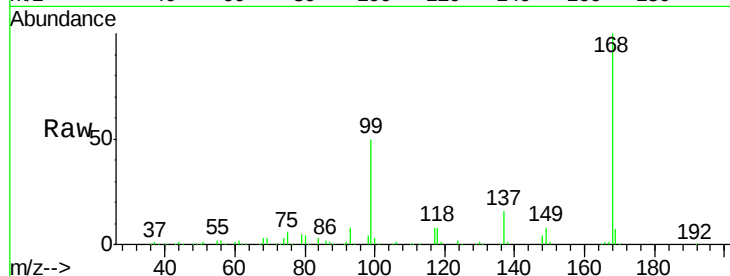
Tot Ion: 56 Resp: 14229

Ion Ratio Lower Upper

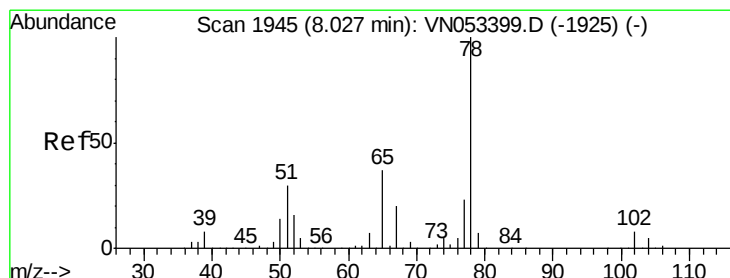
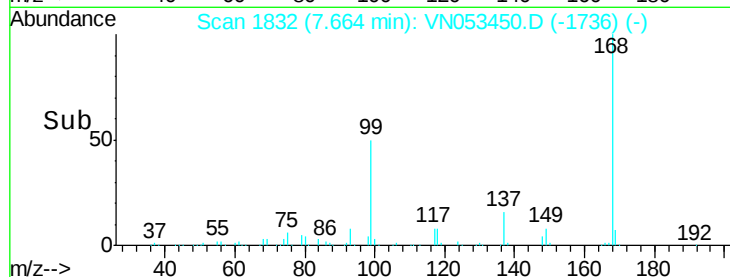
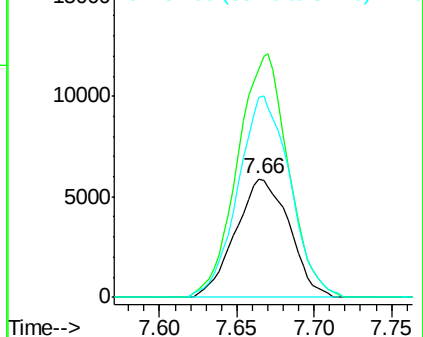
56 100

69 192.3 26.4 39.6#

84 168.9 67.9 101.9#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053450.D

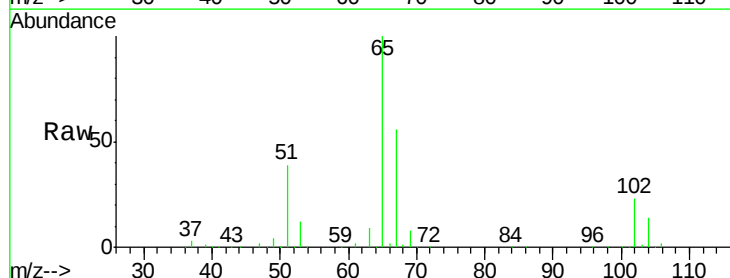
Acq: 17 Jan 2019 22:13

Tgt Ion: 65 Resp: 471984

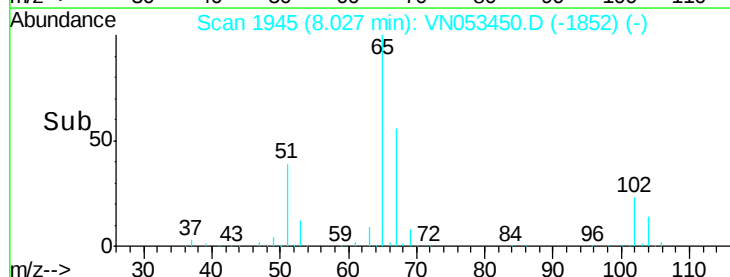
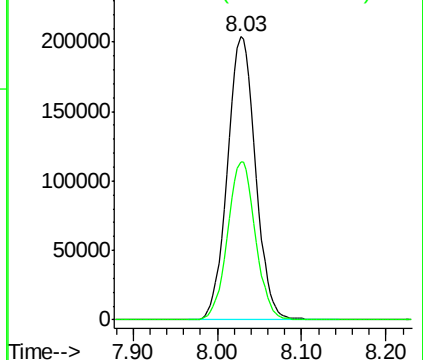
Ion Ratio Lower Upper

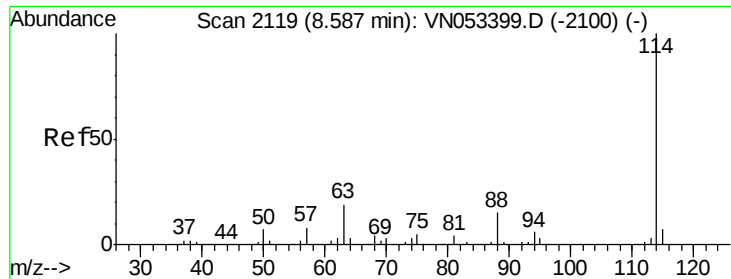
65 100

67 55.4 0.0 111.2



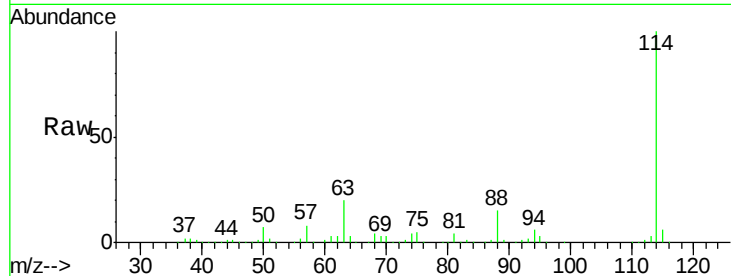
Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC



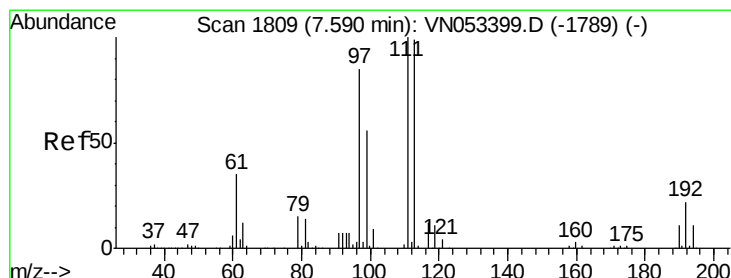
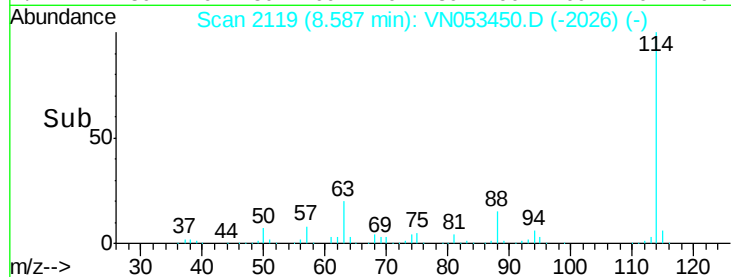
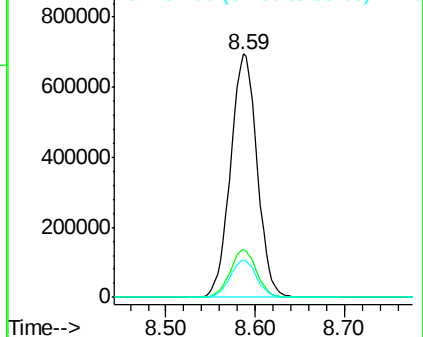


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053450.D
 Acq: 17 Jan 2019 22:13

Tot Ion:114 Resp: 1430034
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.6
 88 15.4 0.0 30.4

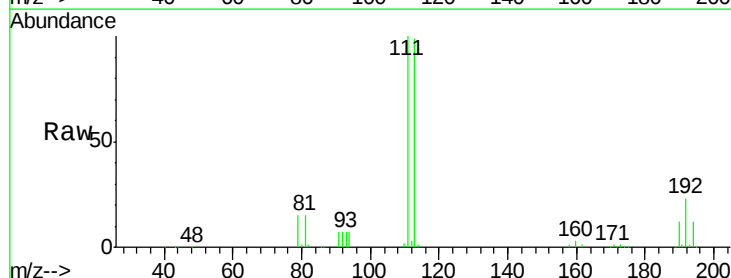


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

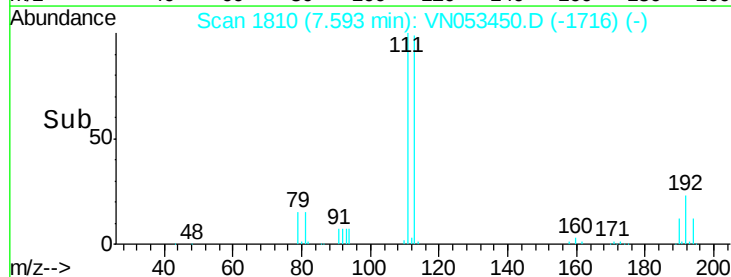
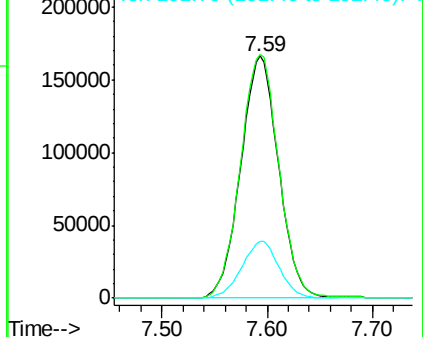


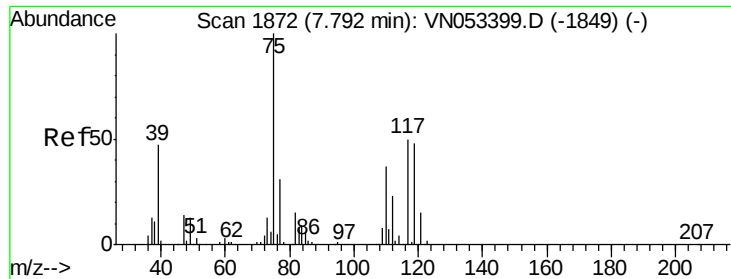
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053450.D
 Acq: 17 Jan 2019 22:13

Tgt Ion:113 Resp: 415012
 Ion Ratio Lower Upper
 113 100
 111 102.4 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: 4.445 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

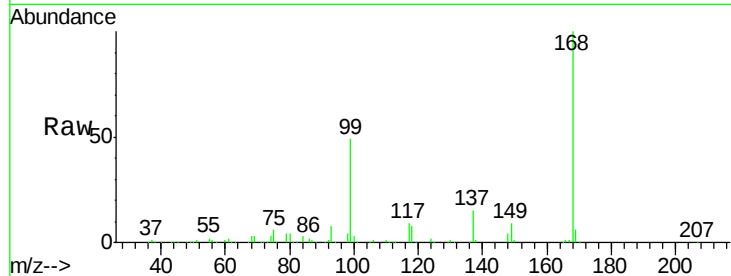
Tot Ion: 75 Resp: 57883

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.3#

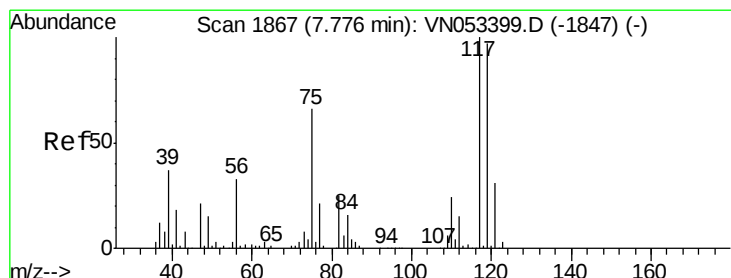
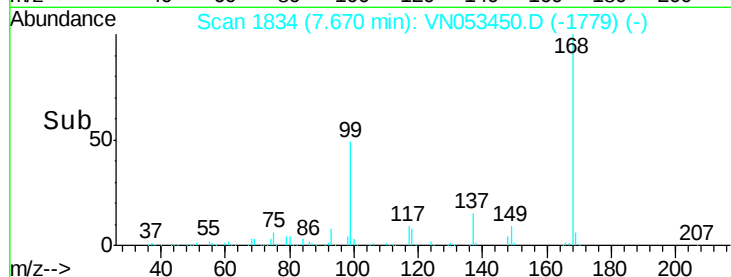
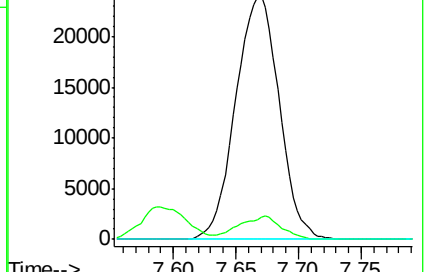
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053399.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053399.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 6.250 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

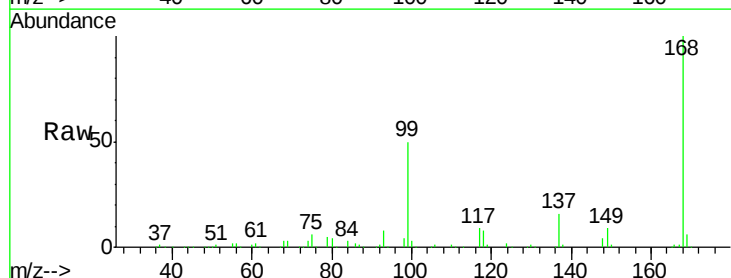
Tgt Ion: 117 Resp: 77056

Ion Ratio Lower Upper

117 100

119 5.9 77.2 115.8#

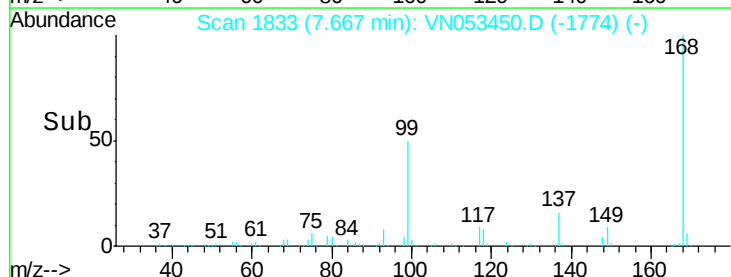
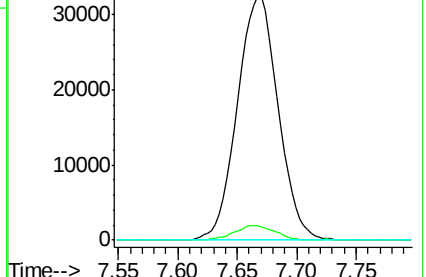
121 0.0 24.6 37.0#

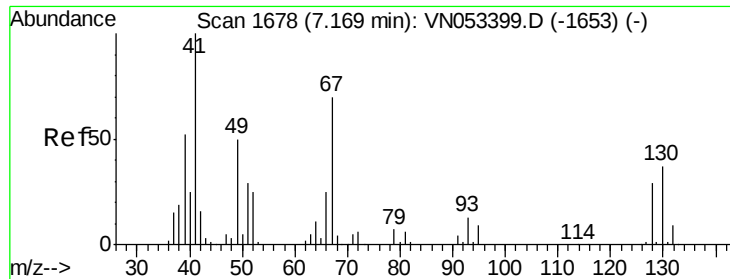


Abundance Ion 116.80 (116.50 to 117.50): VN053399.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN053399.D (-1847) (-)

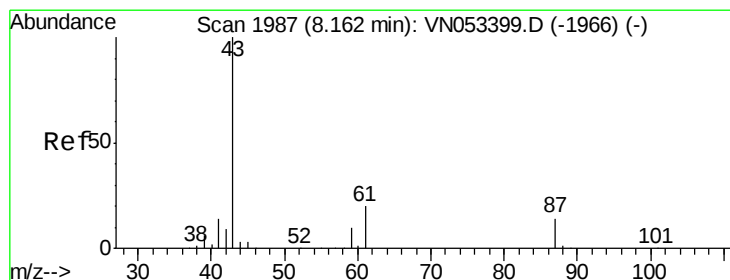
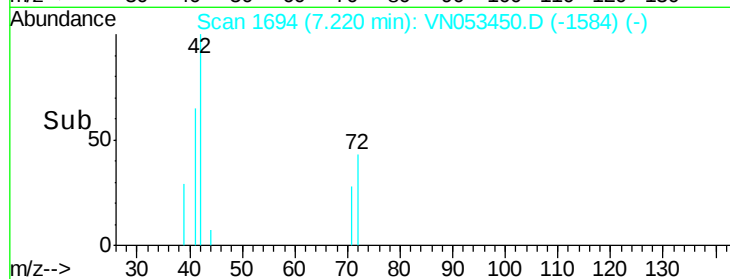
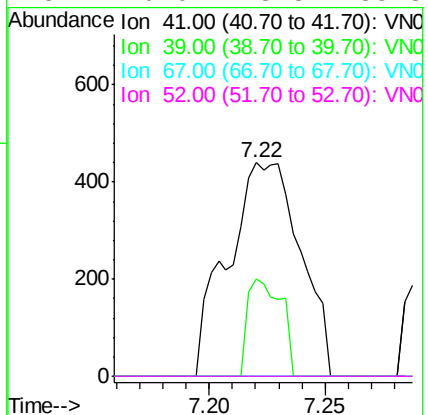
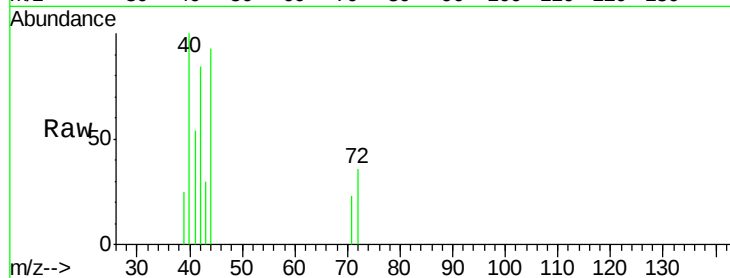
Ion 120.80 (120.50 to 121.50): VN053399.D (-1847) (-)





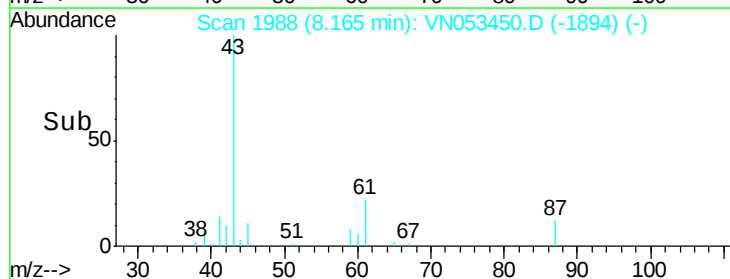
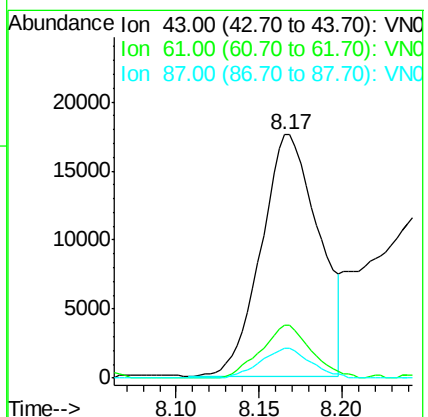
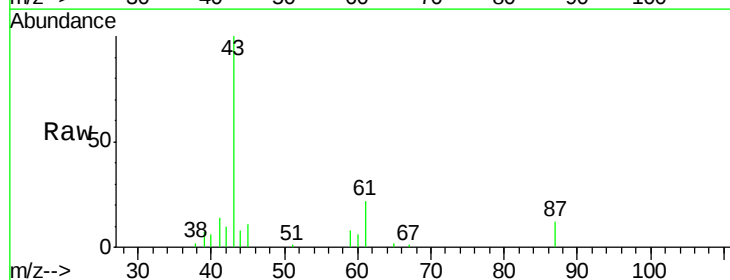
#41
Methacrylonitrile
Concen: 0.880 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.05 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

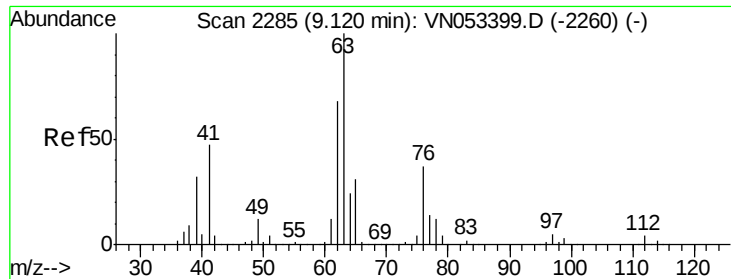
Tot Ion	Ratio	Lower	Upper
41	100		
39	21.0	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 3.140 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

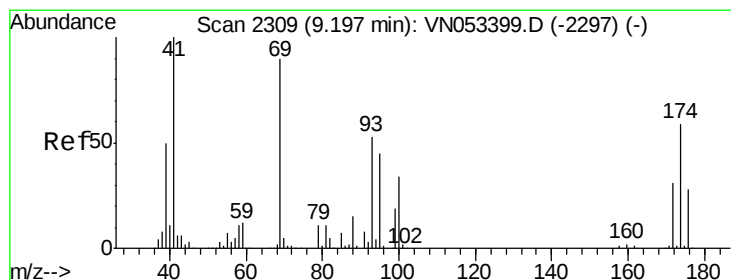
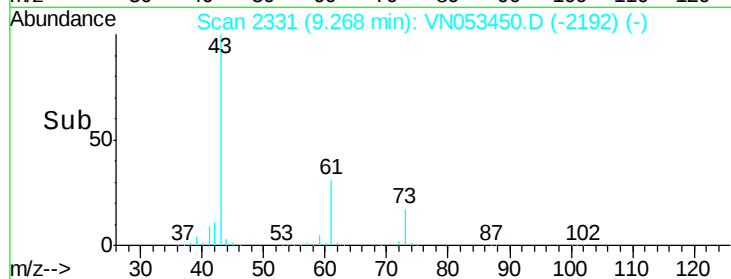
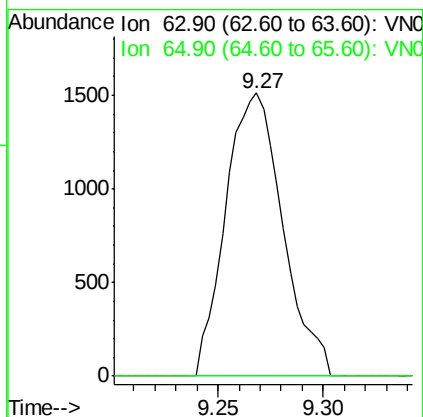
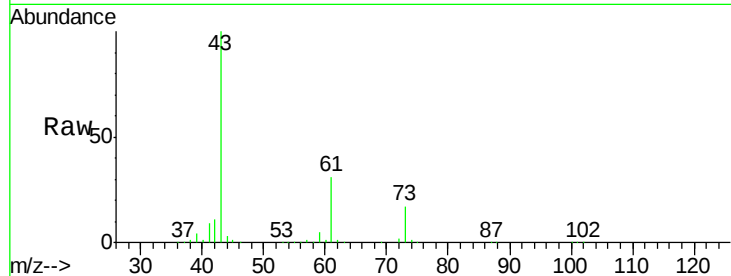
Tgt Ion	Ratio	Lower	Upper
43	100		
61	19.2	23.9	35.9#
87	10.8	11.0	16.6#





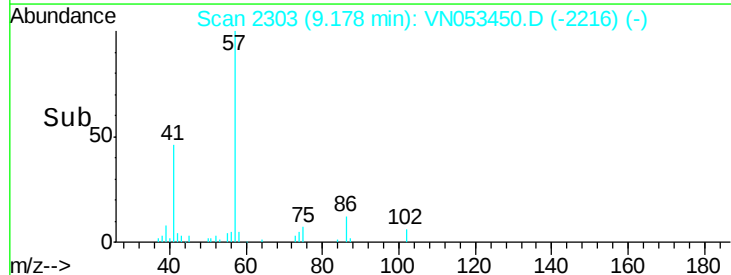
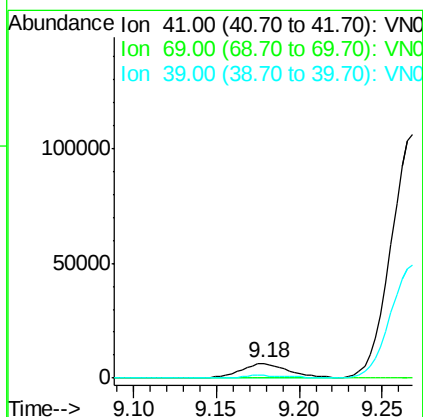
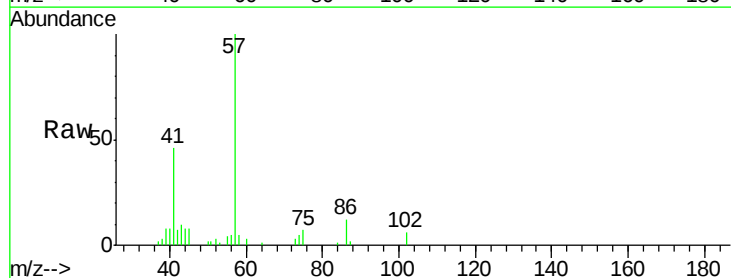
#45
 1,2-Dichloropropane
 Concen: 0.272 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053450.D
 Acq: 17 Jan 2019 22:13

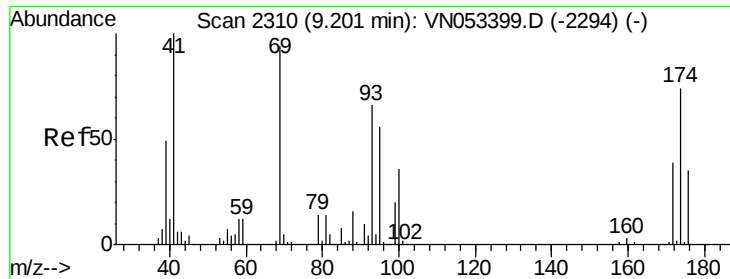
Tot Ion: 63 Resp: 2850
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.895 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053450.D
 Acq: 17 Jan 2019 22:13

Tgt Ion: 41 Resp: 13185
 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: 4.004 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

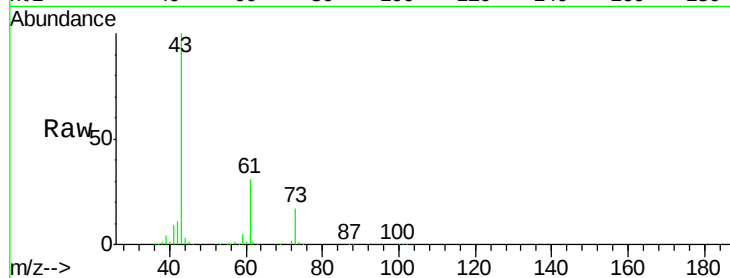
Tot Ion: 88 Resp: 272

Ion Ratio Lower Upper

88 100

43 794784.2 27.8 41.6#

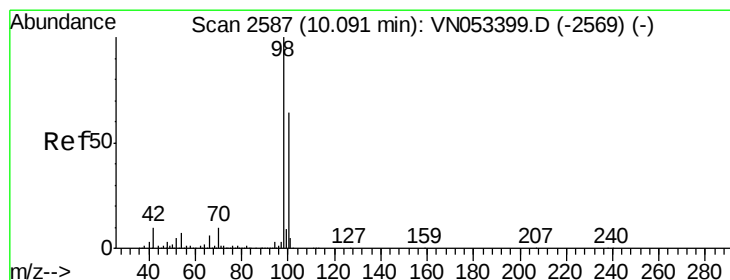
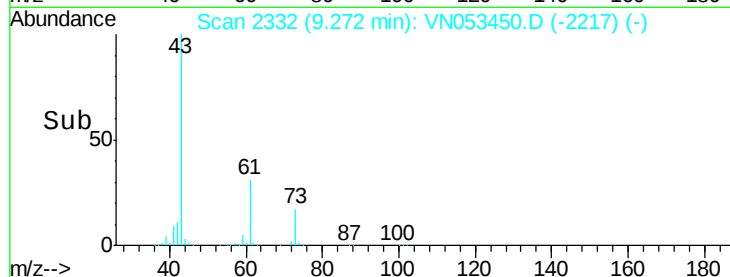
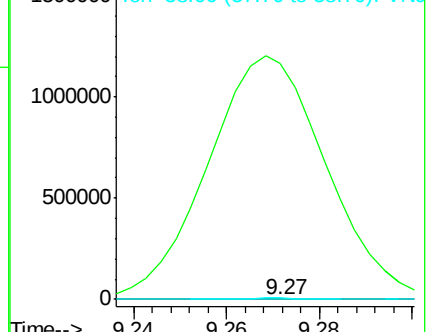
58 3901.8 56.5 84.7#



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: 4.004 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053450.D

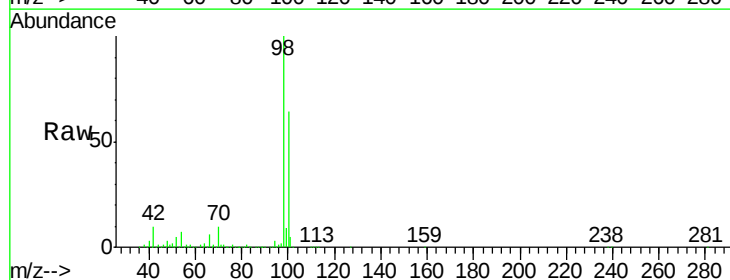
Acq: 17 Jan 2019 22:13

Tgt Ion: 98 Resp: 1785786

Ion Ratio Lower Upper

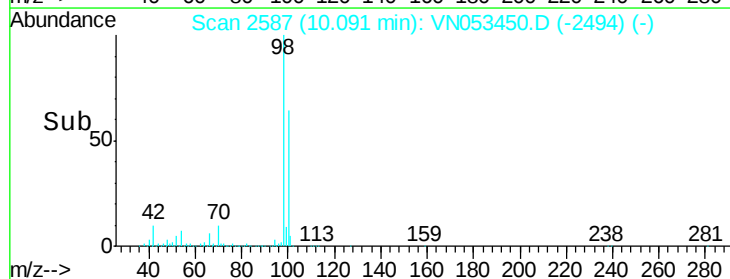
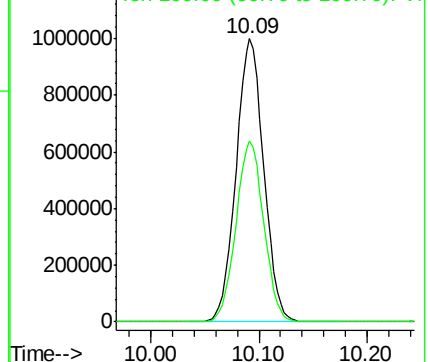
98 100

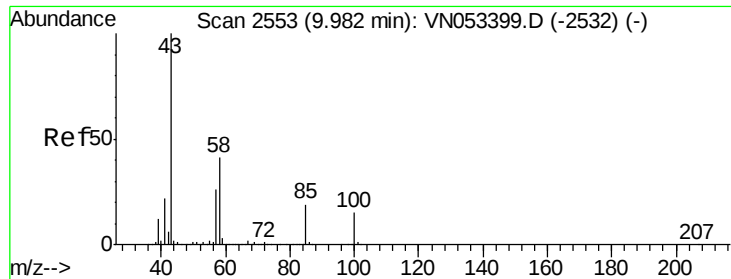
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

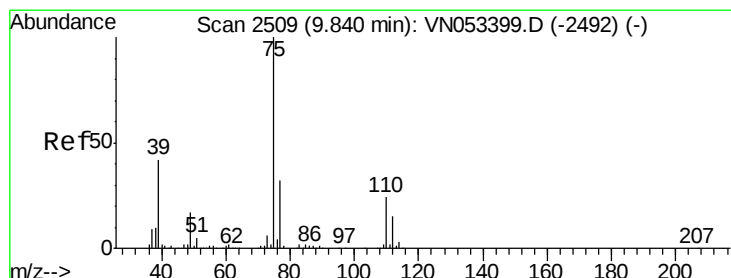
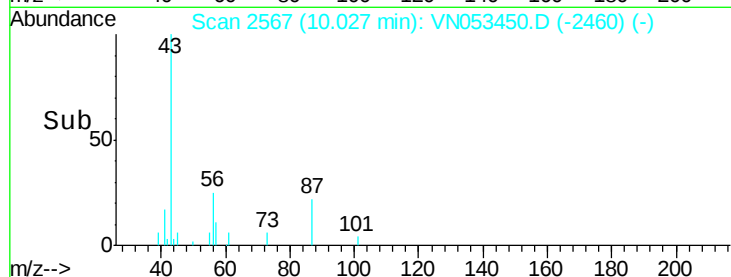
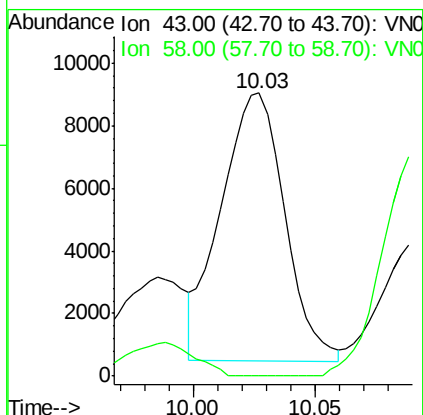
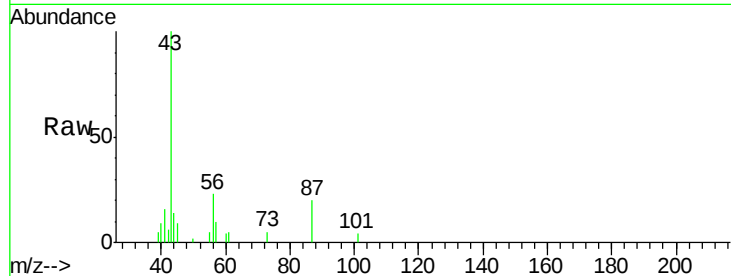
Ion 100.00 (99.70 to 100.70): VN0





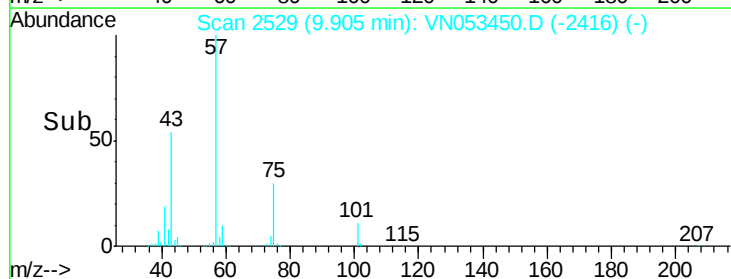
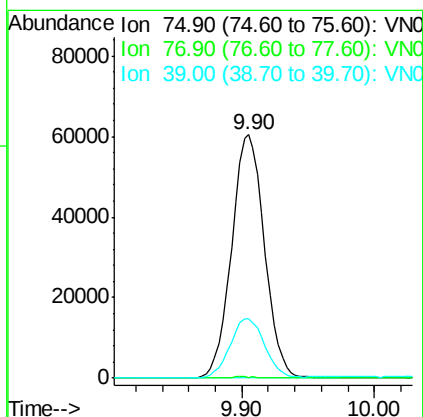
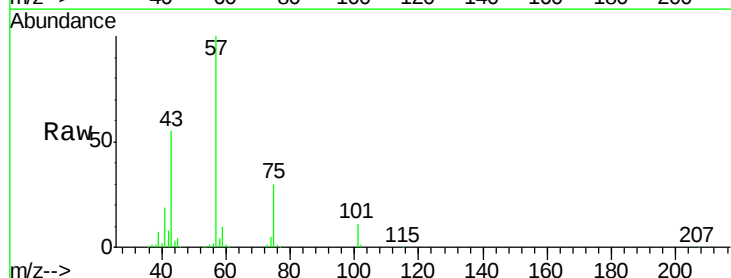
#51
 4-Methyl-2-Pentanone
 Concen: 2.114 ug/l
 RT: 10.03 min Scan# 2567
 Delta R.T. 0.05 min
 Lab File: VN053450.D
 Acq: 17 Jan 2019 22:13

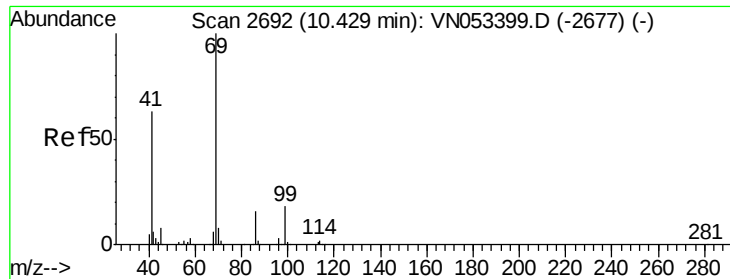
Tot Ion: 43 Resp: 15551
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.8 49.2#



#54
 cis-1,3-Dichloropropene
 Concen: 6.898 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN053450.D
 Acq: 17 Jan 2019 22:13

Tgt Ion: 75 Resp: 103807
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.6#
 39 24.4 33.4 50.0#





#56

Ethyl methacrylate

Concen: 2.185 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

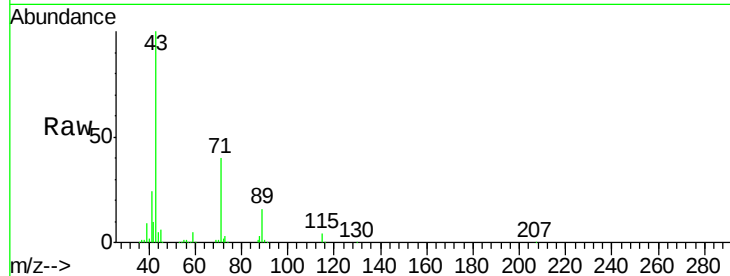
Tot Ion: 69 Resp: 1592

Ion Ratio Lower Upper

69 100

41 4414.8 49.4 74.0#

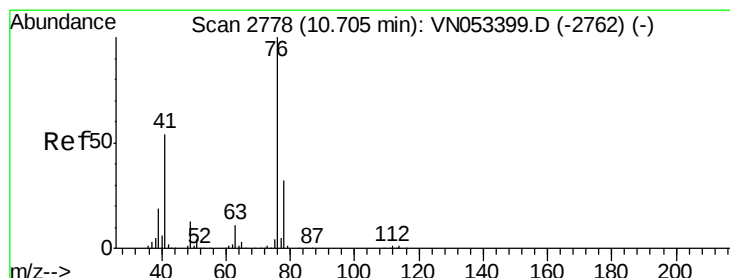
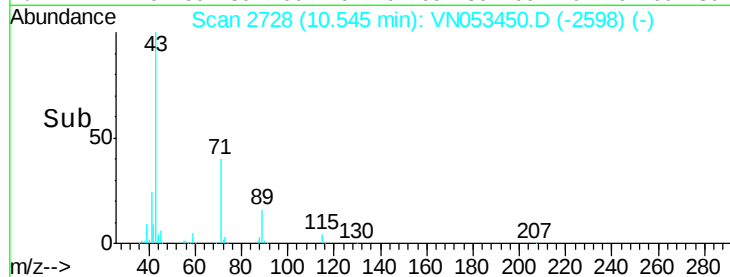
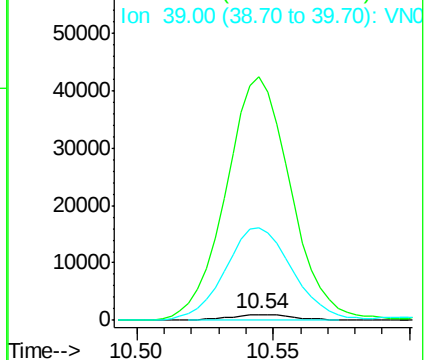
39 1755.0 23.3 34.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.459 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053450.D

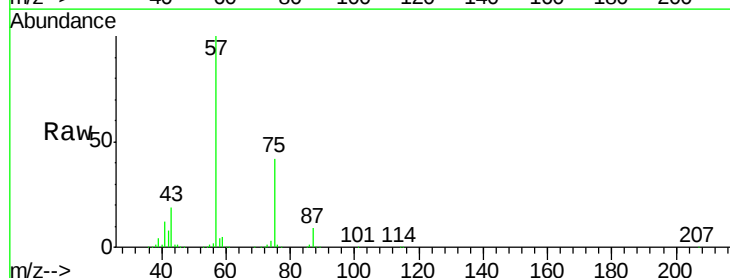
Acq: 17 Jan 2019 22:13

Tgt Ion: 76 Resp: 21380

Ion Ratio Lower Upper

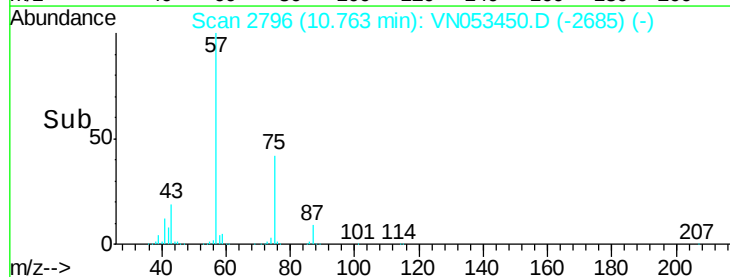
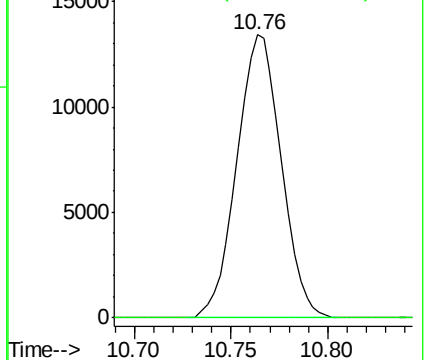
76 100

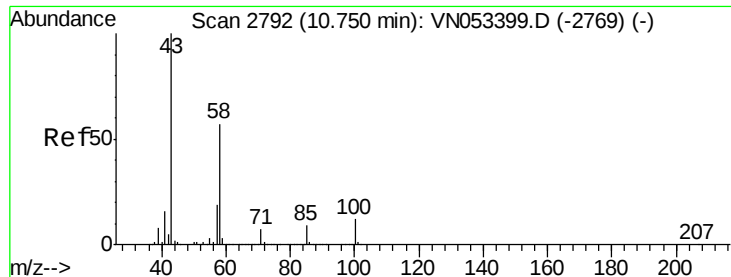
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

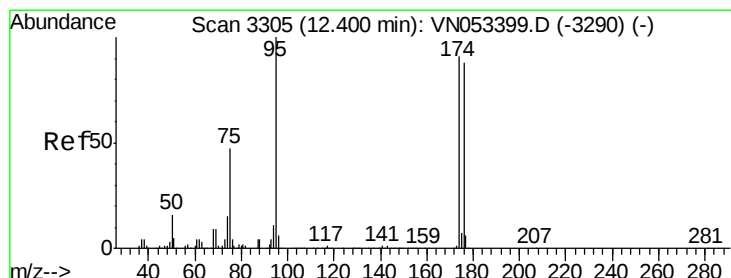
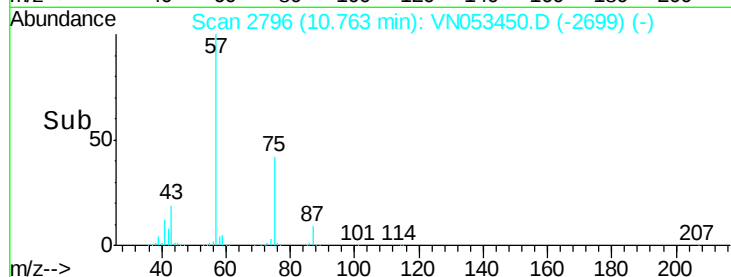
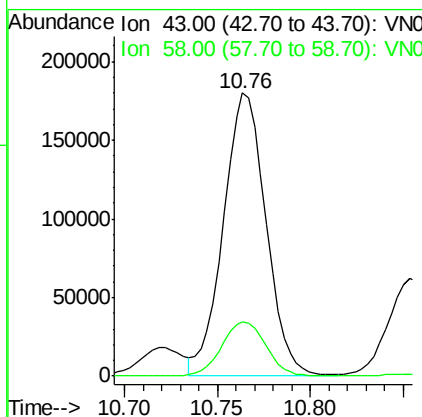
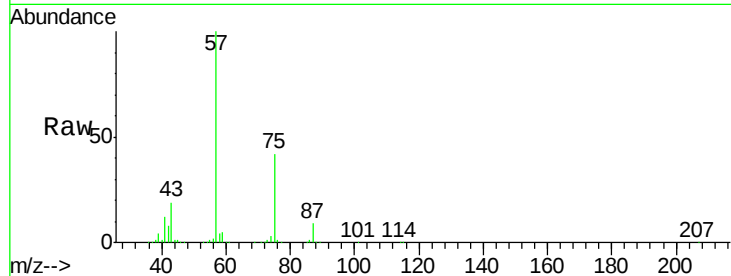
Ion 77.90 (77.60 to 78.60): VN0





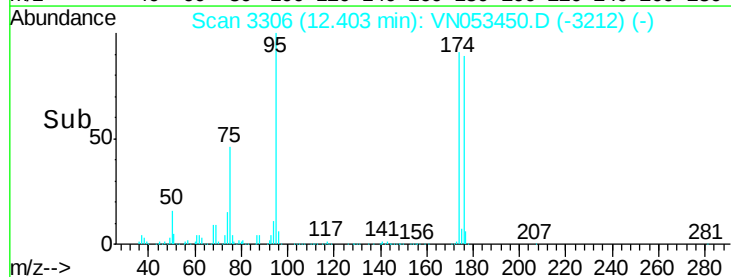
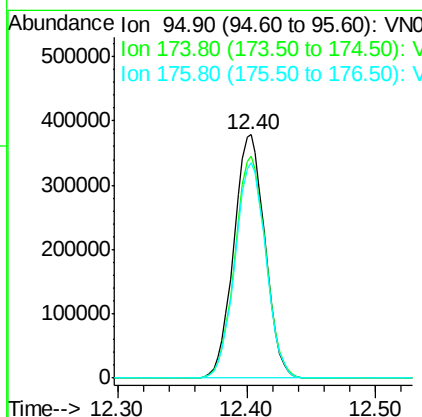
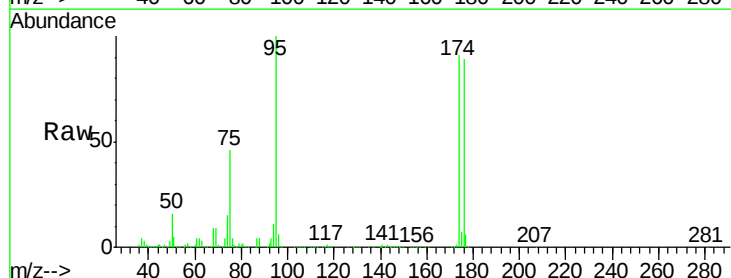
#59
2-Hexanone
Concen: 55.179 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

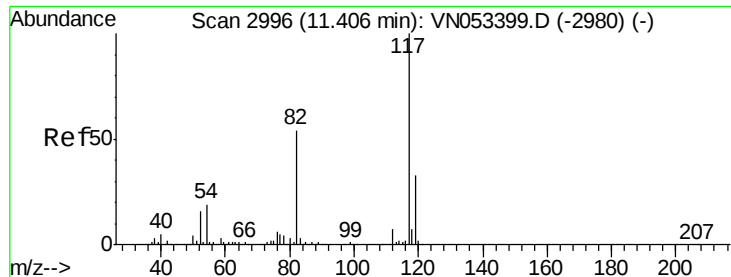
Tot Ion: 43 Resp: 284890
Ion Ratio Lower Upper
43 100
58 20.1 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

Tgt Ion: 95 Resp: 633504
Ion Ratio Lower Upper
95 100
174 91.0 0.0 183.2
176 88.1 0.0 177.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

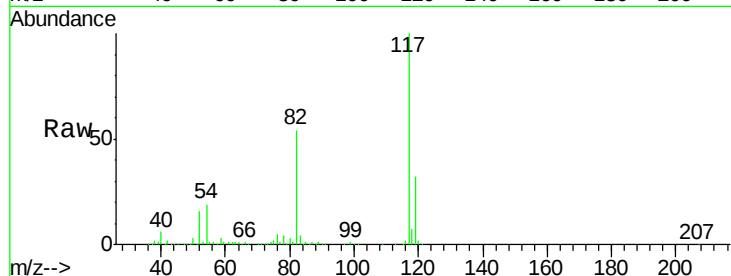
Tot Ion:117 Resp: 1370613

Ion Ratio Lower Upper

117 100

82 53.8 42.9 64.3

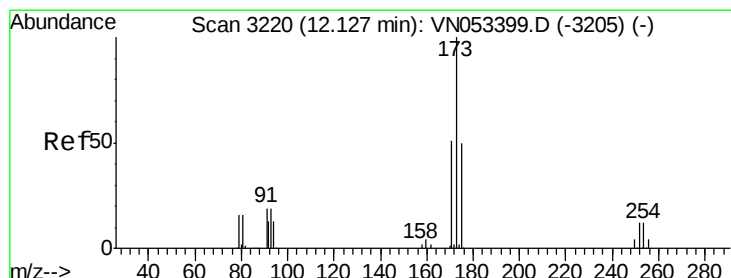
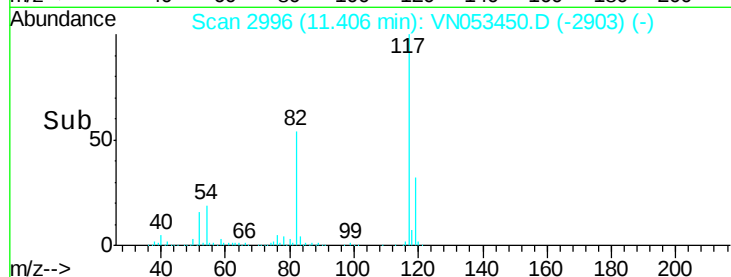
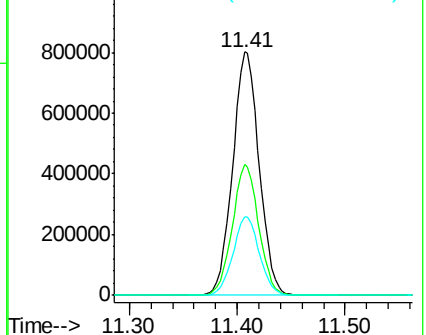
119 32.4 26.0 39.0



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: 0.423 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

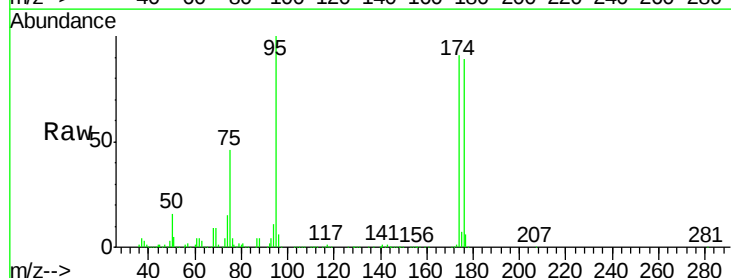
Tgt Ion:173 Resp: 2937

Ion Ratio Lower Upper

173 100

175 1264.1 24.6 74.0#

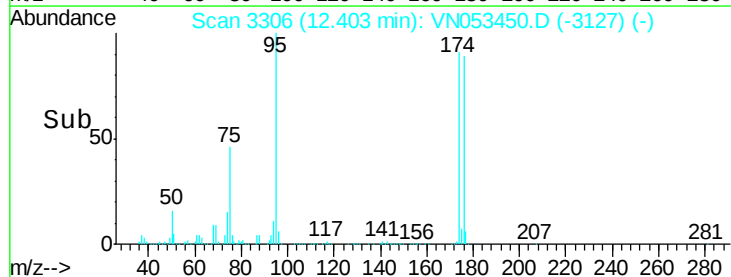
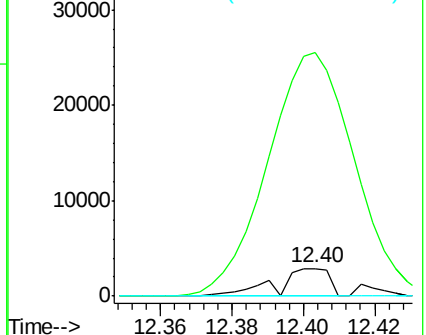
254 0.0 0.2 0.2#

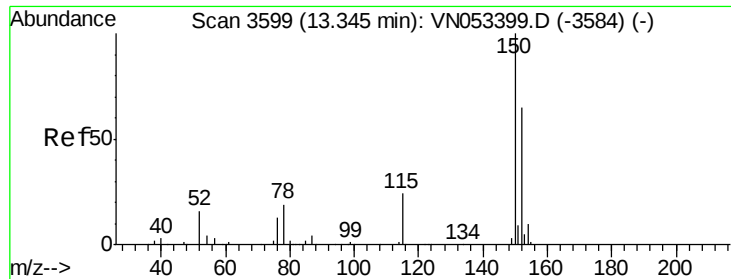


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

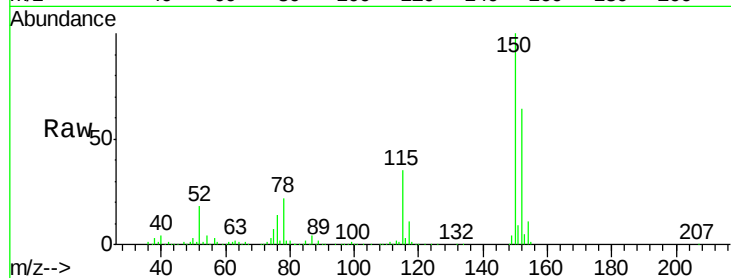




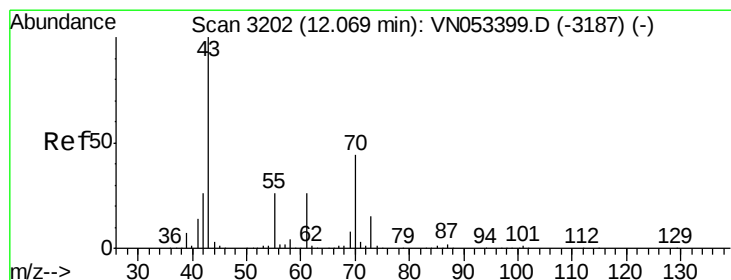
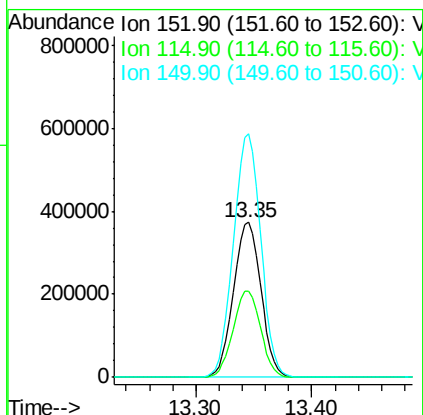
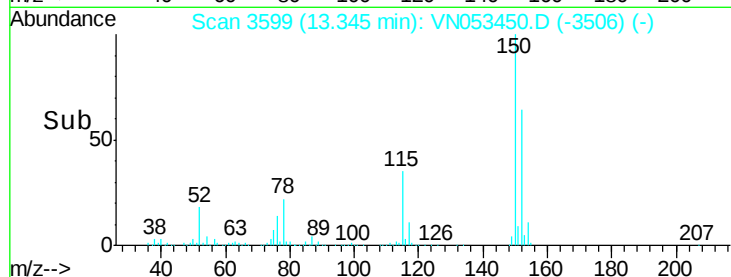
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	27.8	83.4
150	156.3	0.0	349.0



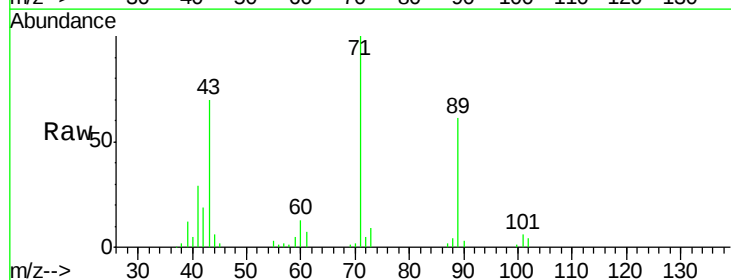
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



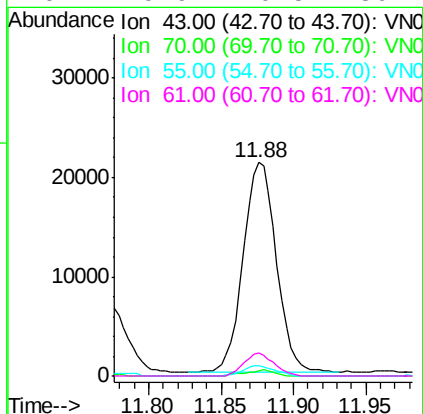
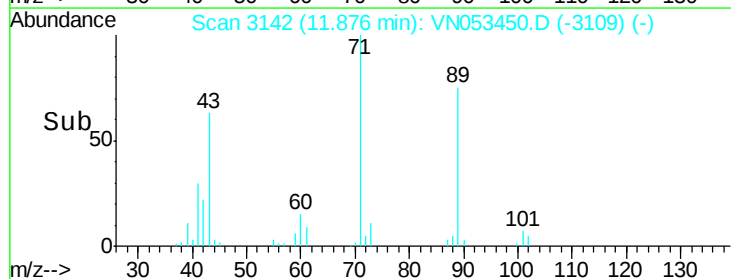
#74

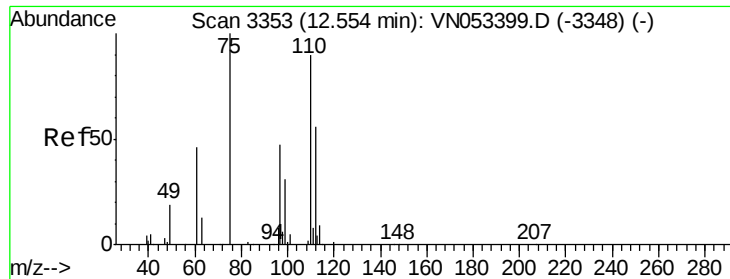
N-ethyl acetate
Concen: 2.843 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053450.D
Acq: 17 Jan 2019 22:13

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.5	35.4	53.2#
55	4.8	20.9	31.3#
61	9.9	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: 36.550 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053450.D

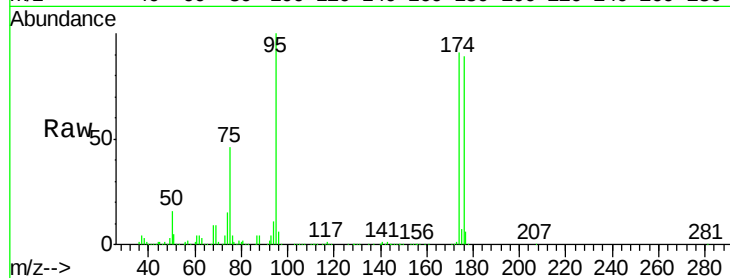
Acq: 17 Jan 2019 22:13

Tot Ion: 75 Resp: 293842

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN053399.D (-3348) (-)

12.40

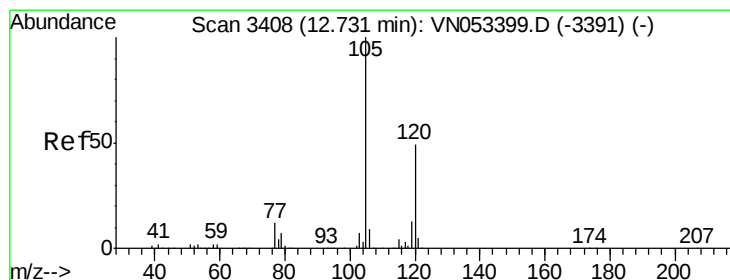
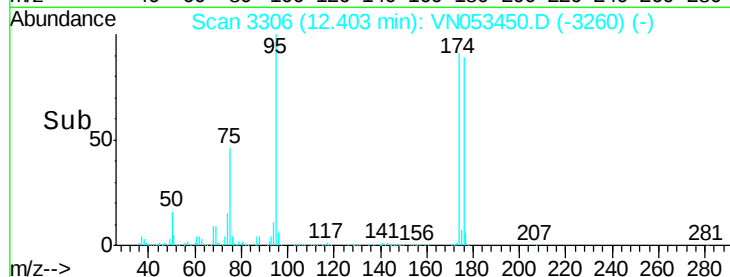
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.634 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053450.D

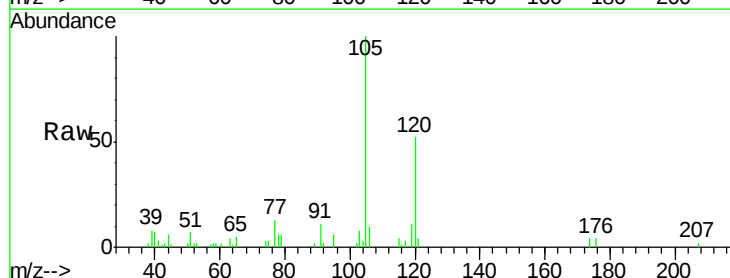
Acq: 17 Jan 2019 22:13

Tgt Ion: 105 Resp: 23043

Ion Ratio Lower Upper

105 100

120 50.9 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053399.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN053399.D (-3391) (-)

12.73

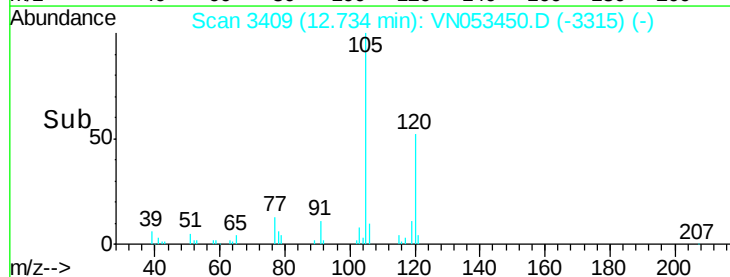
15000

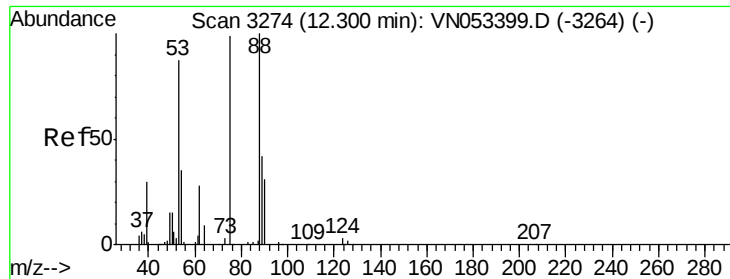
10000

5000

0

Time--> 12.70 12.75 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 90.346 ug/l

RT: 12.40 min Scan# 3306

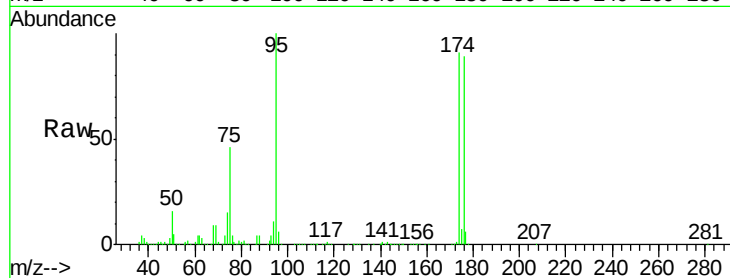
Delta R.T. 0.10 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

Tot Ion: 75 Resp: 293842

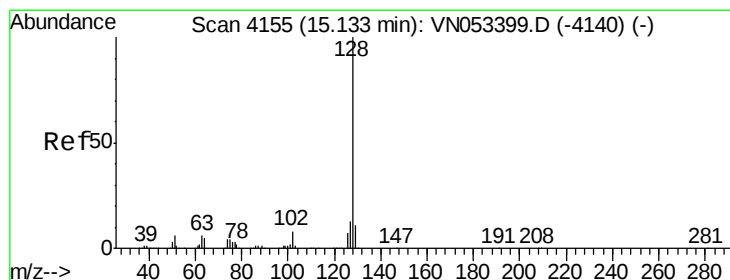
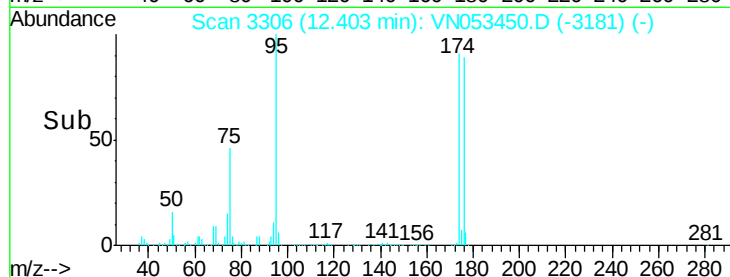
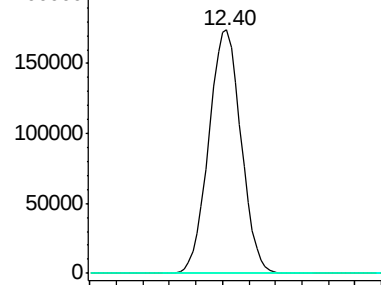
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN053399.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053399.D (-3264) (-)



#95

Naphthalene

Concen: 3.949 ug/l

RT: 15.14 min Scan# 4156

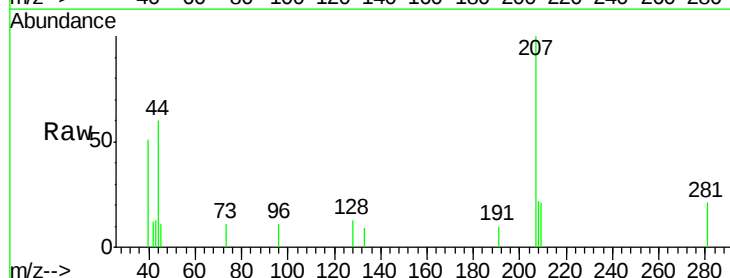
Delta R.T. 0.00 min

Lab File: VN053450.D

Acq: 17 Jan 2019 22:13

Tgt Ion: 128 Resp: 157

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): VN053399.D (-4140) (-)

Ion 127.00 (126.70 to 127.70): VN053399.D (-4140) (-)

Ion 129.00 (128.70 to 129.70): VN053399.D (-4140) (-)

