

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054069.D
 Acq On : 4 Mar 2019 16:53
 Operator : JC/SP
 Sample : PB117549TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 04 23:55:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	583978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1079569	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1071715	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	380072	50.00	ug/l	0.00

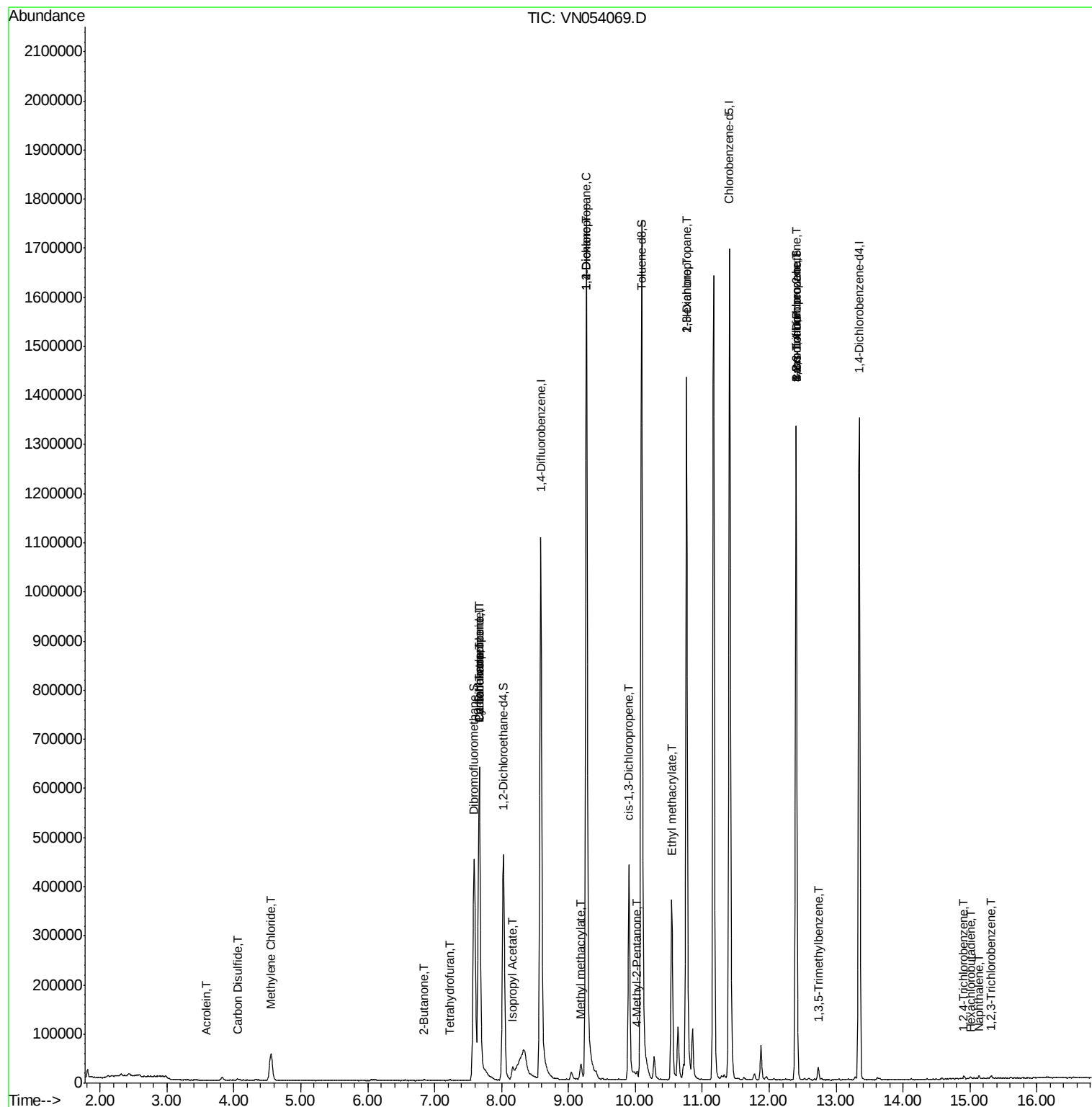
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	394298	57.60	ug/l	0.00
Spiked Amount			Recovery	=	115.20%	
35) Dibromofluoromethane	7.59	113	351121	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
50) Toluene-d8	10.09	98	1393653	53.63	ug/l	0.00
Spiked Amount			Recovery	=	107.26%	
62) 4-Bromofluorobenzene	12.40	95	461120	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	

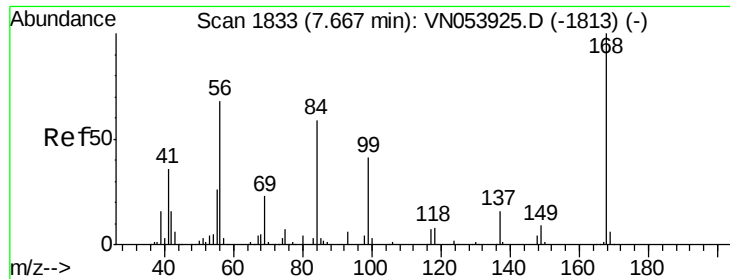
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	98	0.218	ug/l #	14
16) Acetone	3.82	43	8827	Below Cal		95
17) Carbon Disulfide	4.06	76	3820	0.205	ug/l #	89
20) Methylene Chloride	4.56	84	40368	5.958	ug/l #	89
25) 2-Butanone	6.85	43	2484	0.924	ug/l #	86
29) Tetrahydrofuran	7.23	42	1761	0.984	ug/l #	43
31) Cyclohexane	7.67	56	11136	0.612	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40114	3.996	ug/l #	48
38) Carbon Tetrachloride	7.67	117	51150	4.899	ug/l #	17
43) Isopropyl Acetate	8.17	43	36811	3.041	ug/l #	90
45) 1,2-Dichloropropane	9.27	63	2291	0.275	ug/l #	44
48) Methyl methacrylate	9.18	41	11651	2.093	ug/l #	12
49) 1,4-Dioxane	9.27	88	202	2.679	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	10906	1.753	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	80834	6.922	ug/l #	72
56) Ethyl methacrylate	10.54	69	2171	2.190	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	15124	1.320	ug/l #	43
59) 2-Hexanone	10.76	43	227409	56.217	ug/l #	49
71) Bromoform	12.41	173	3295	0.581	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	227559	37.323	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13157	0.543	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	227559	117.964	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	2093	2.509	ug/l	93
94) Hexachlorobutadiene	15.01	225	1070	0.235	ug/l	82
95) Naphthalene	15.13	128	5294	3.541	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	2424	1.908	ug/l	97

(#) = 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: VN054069.D

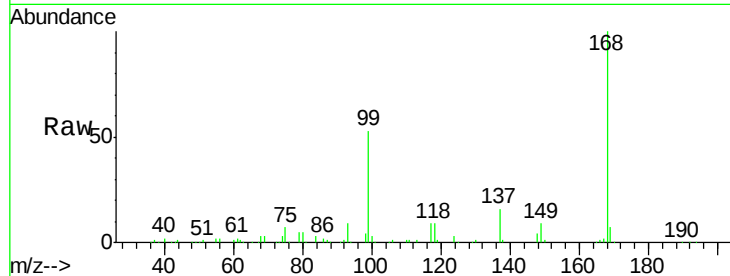
Acq: 4 Mar 2019 16:53

Tot Ion:168 Resp: 583978

Ion Ratio Lower Upper

168 100

99 52.9 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

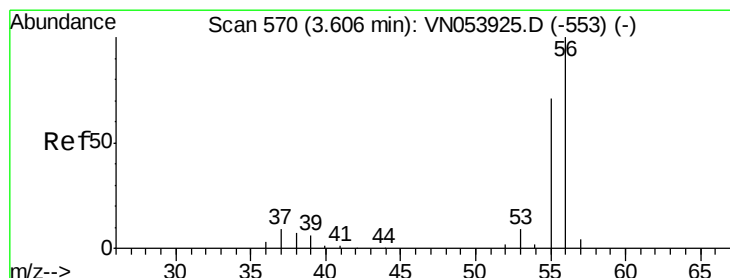
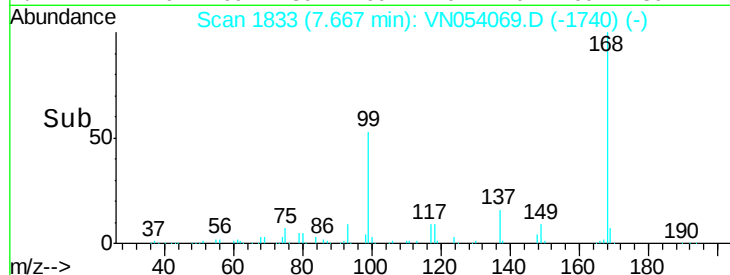
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.218 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054069.D

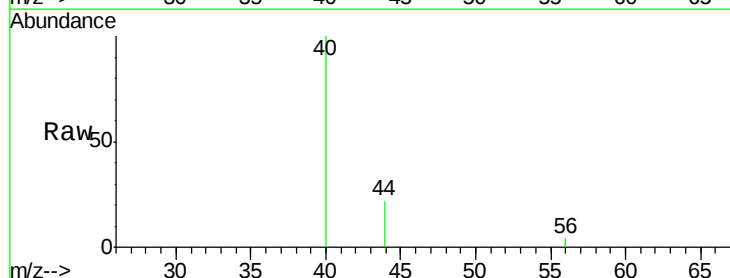
Acq: 4 Mar 2019 16:53

Tgt Ion: 56 Resp: 98

Ion Ratio Lower Upper

56 100

55 0.0 56.3 84.5#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.60

250

200

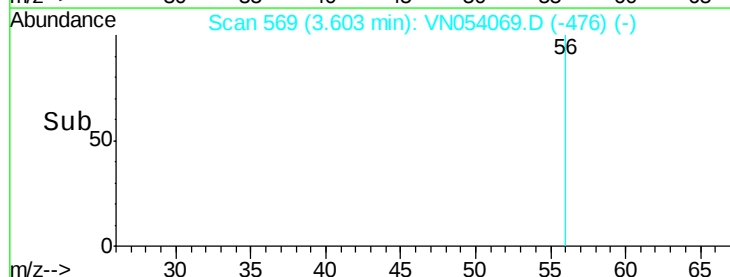
150

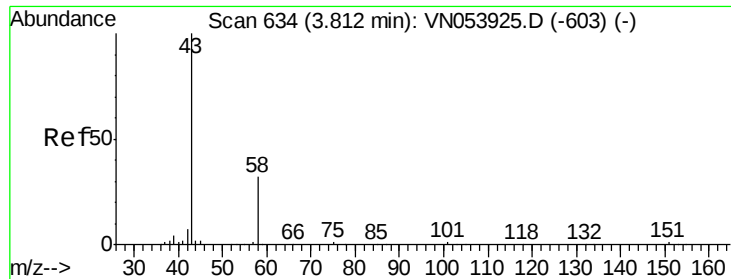
100

50

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN054069.D

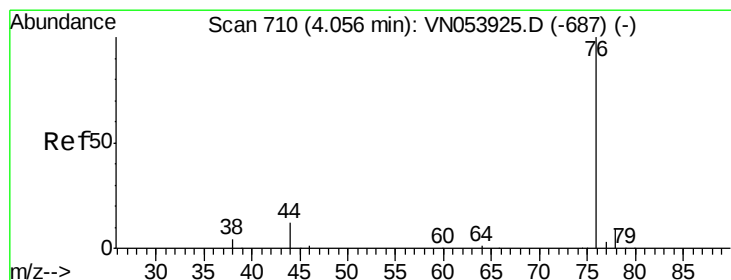
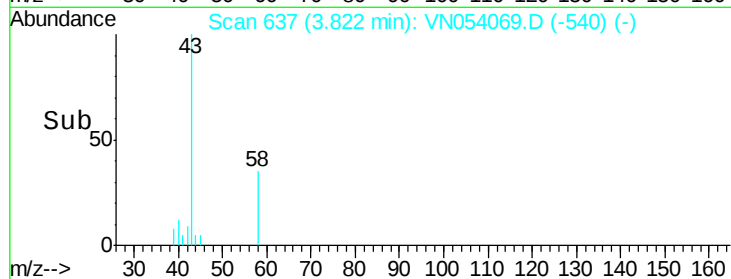
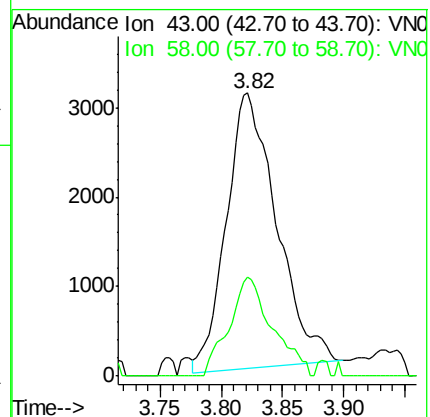
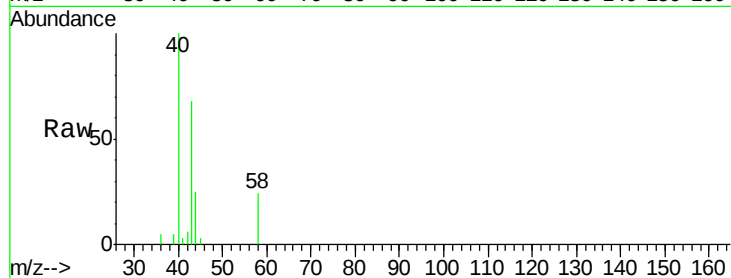
Acq: 4 Mar 2019 16:53

Tot Ion: 43 Resp: 8827

Ion Ratio Lower Upper

43 100

58 37.1 27.6 41.4



#17

Carbon Disulfide

Concen: 0.205 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN054069.D

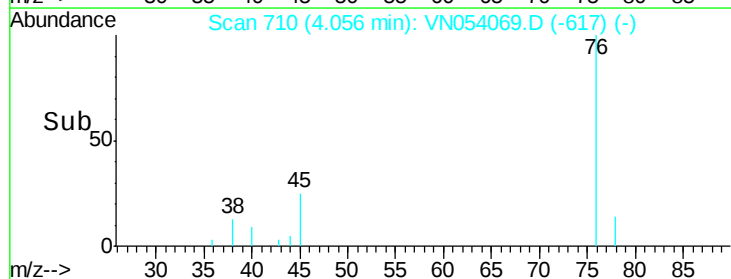
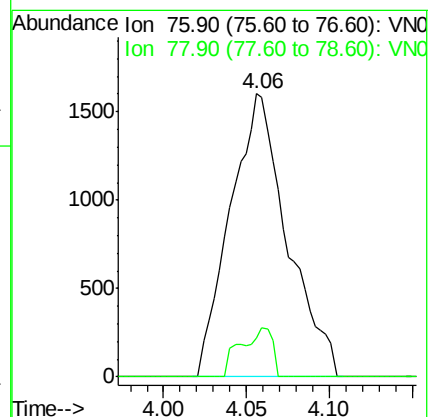
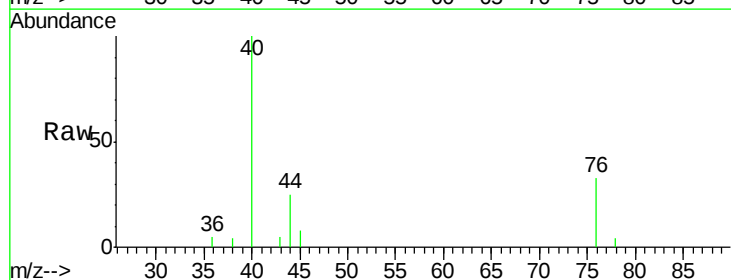
Acq: 4 Mar 2019 16:53

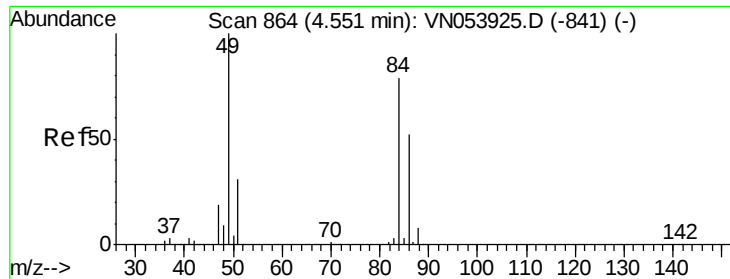
Tgt Ion: 76 Resp: 3820

Ion Ratio Lower Upper

76 100

78 13.5 7.5 11.3#

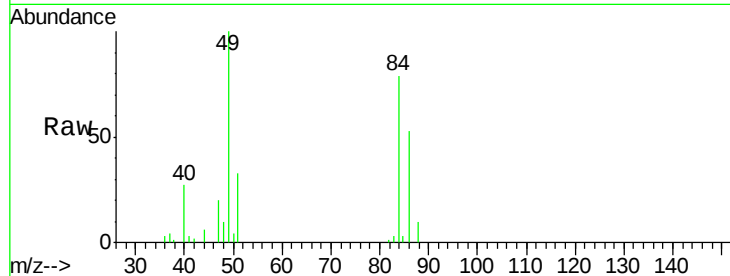




#20
Methvlene Chloride
Concen: 5.958 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

Tot Ion: 84 Resp: 40368

Ion	Ratio	Lower	Upper
84	100		
49	127.1	89.7	134.5
51	41.9	27.8	41.8#
86	68.0	51.3	76.9



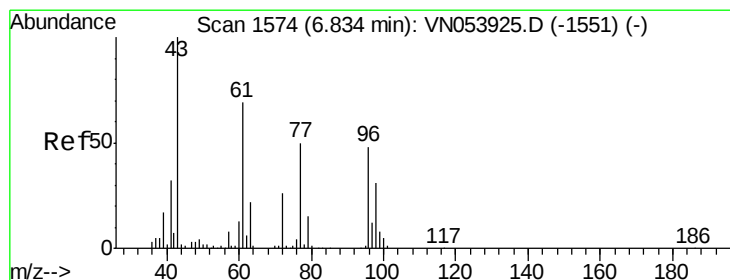
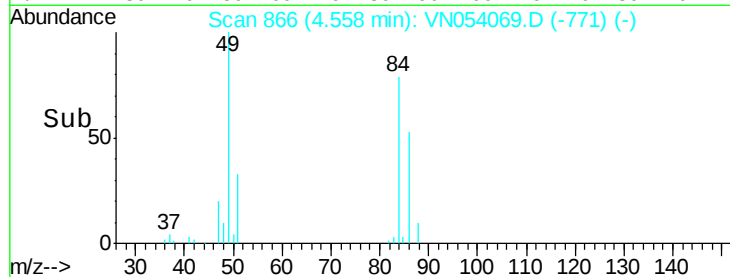
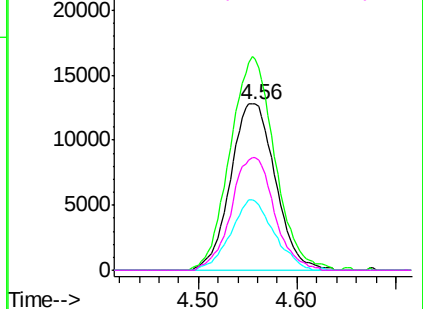
Abundance

Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

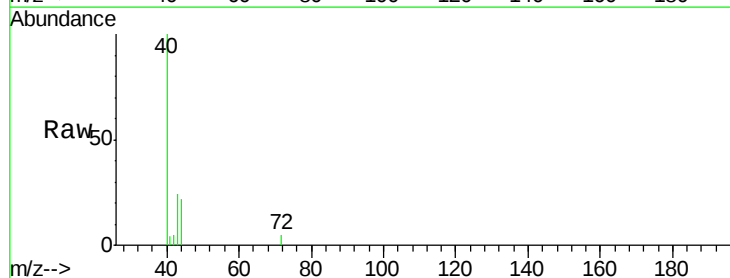
Ion 85.90 (85.60 to 86.60): VNC



#25
2-Butanone
Concen: 0.924 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

Tgt Ion: 43 Resp: 2484

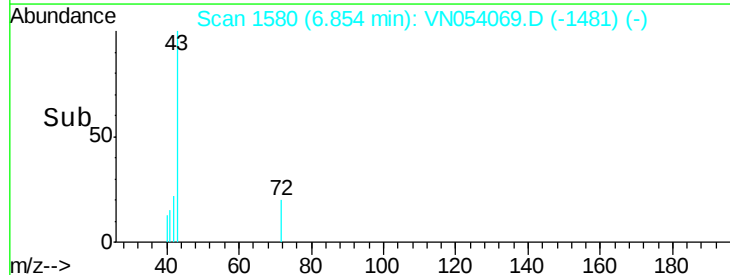
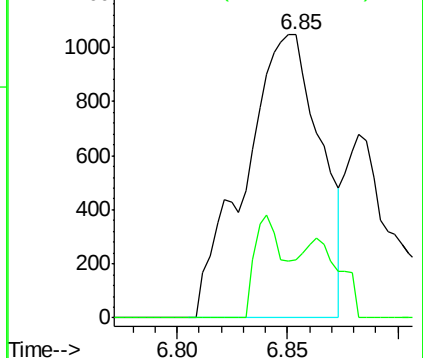
Ion	Ratio	Lower	Upper
43	100		
72	20.4	22.1	33.1#

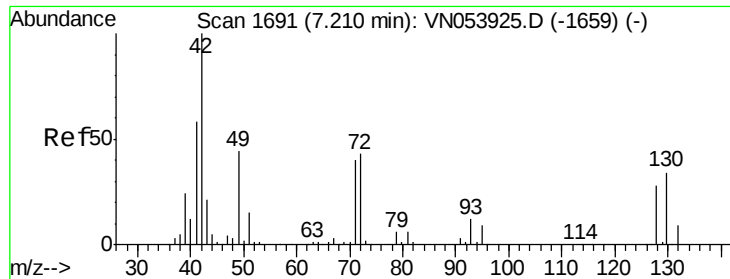


Abundance

Ion 43.00 (42.70 to 43.70): VNC

Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.984 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

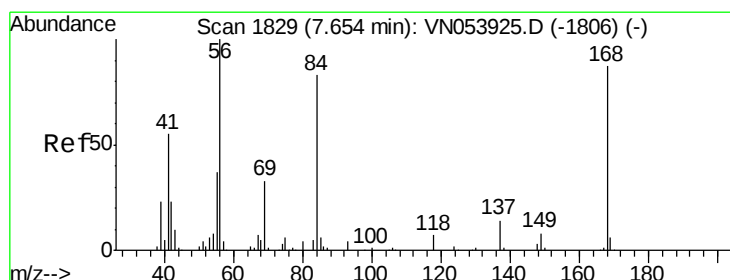
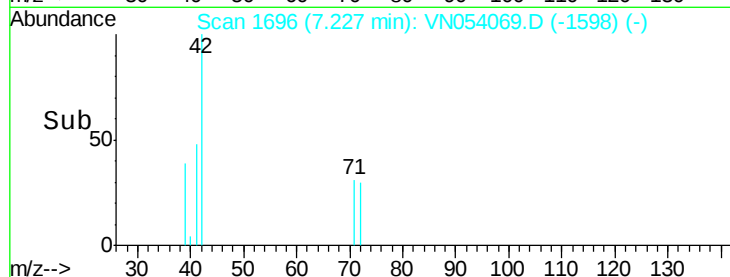
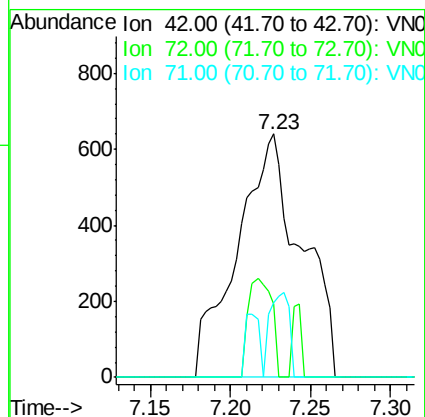
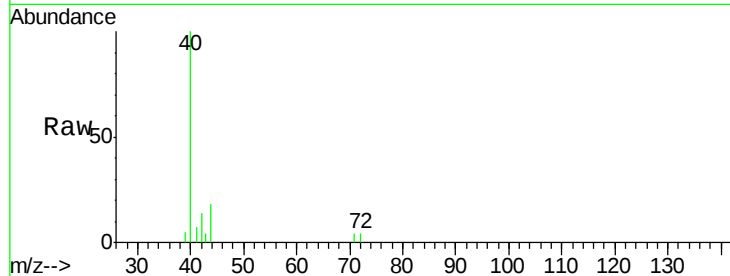
Tot Ion: 42 Resp: 1761

Ion Ratio Lower Upper

42 100

72 4.1 36.9 55.3#

71 10.8 34.6 52.0#



#31

Cyclohexane

Concen: 0.612 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

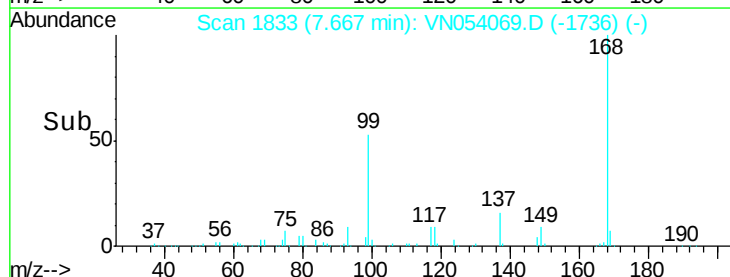
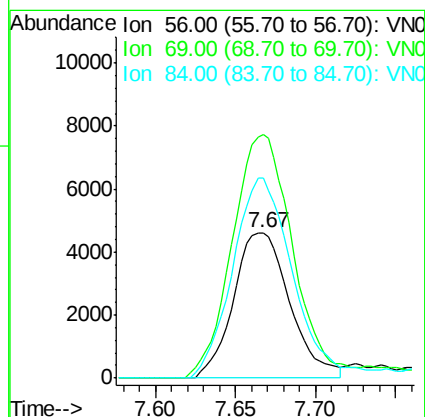
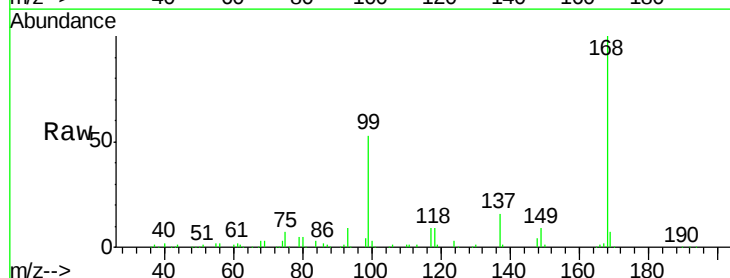
Tgt Ion: 56 Resp: 11136

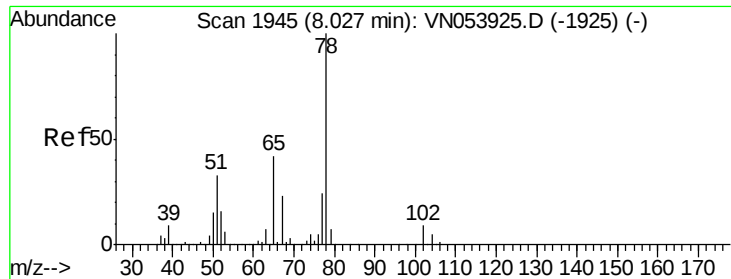
Ion Ratio Lower Upper

56 100

69 163.6 26.0 39.0#

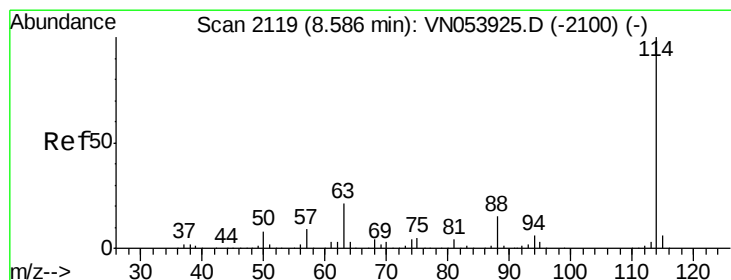
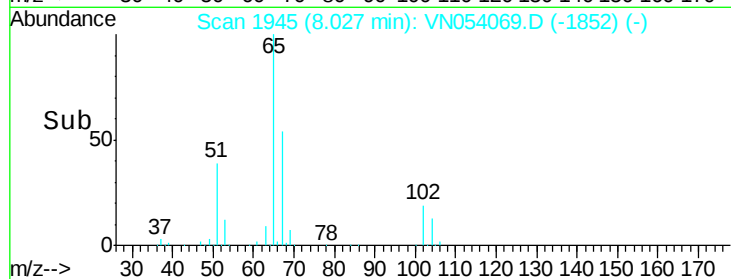
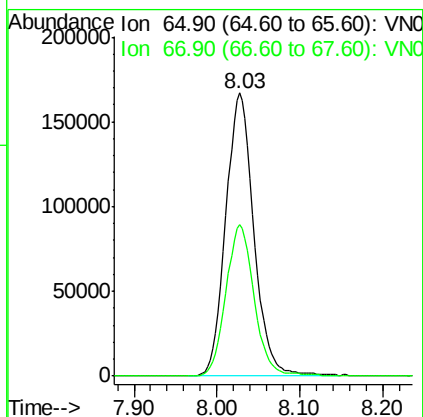
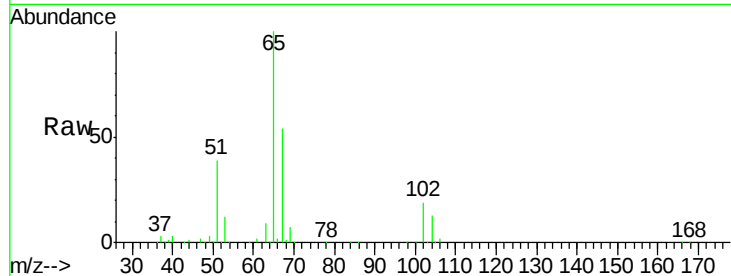
84 137.9 69.1 103.7#





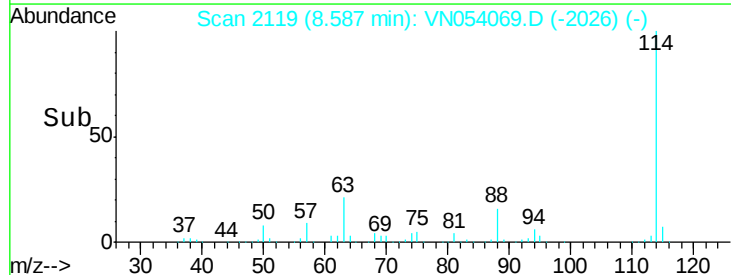
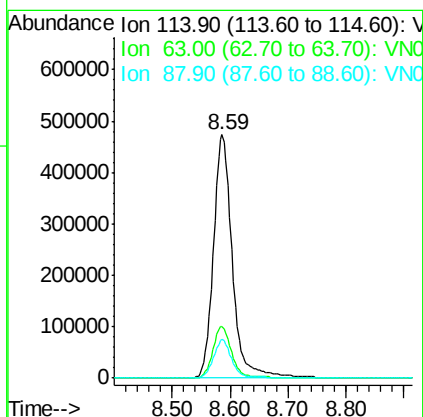
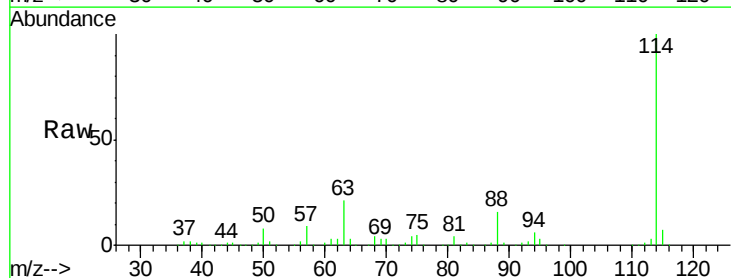
#33
 1,2-Dichloroethane-d4
 Concen: 57.599 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

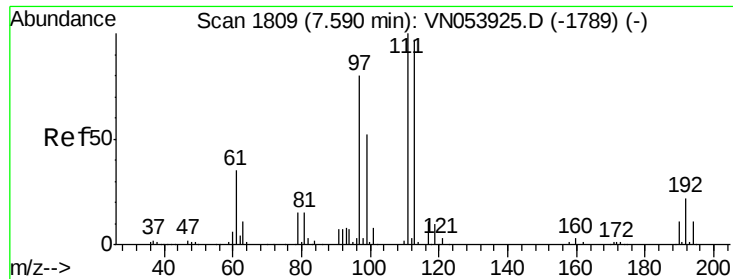
Tot Ion: 65 Resp: 394298
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

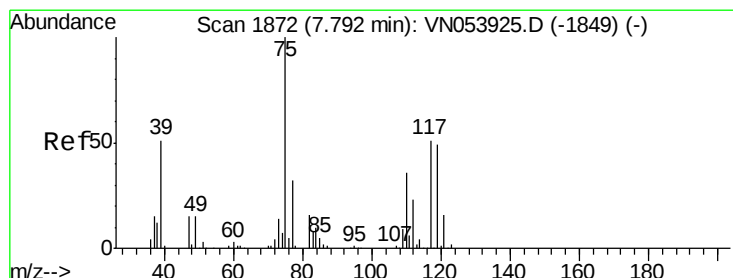
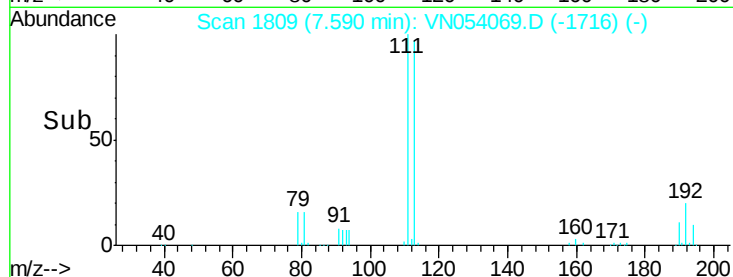
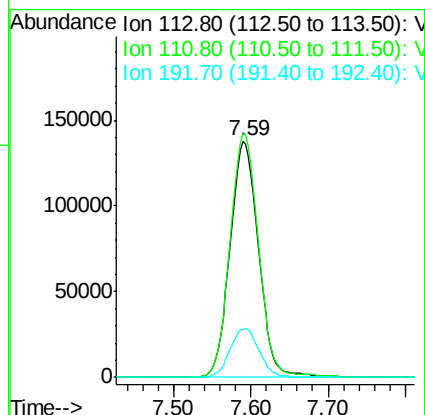
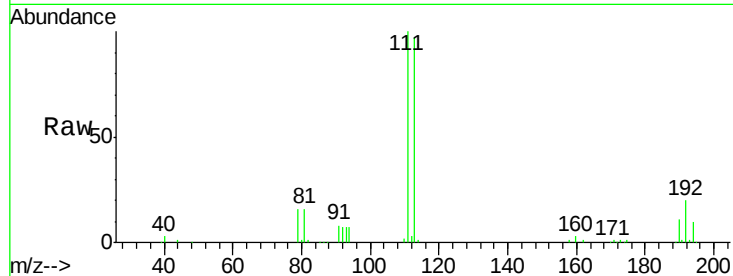
Tgt Ion: 114 Resp: 1079569
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 37.4
 88 15.8 0.0 30.4





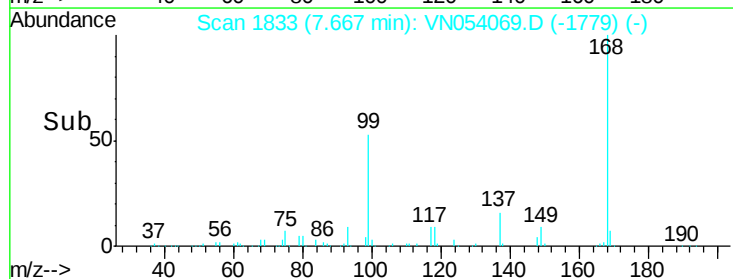
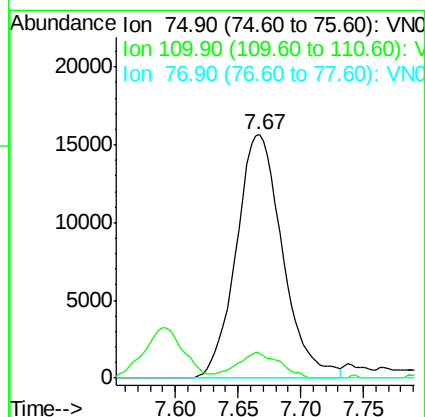
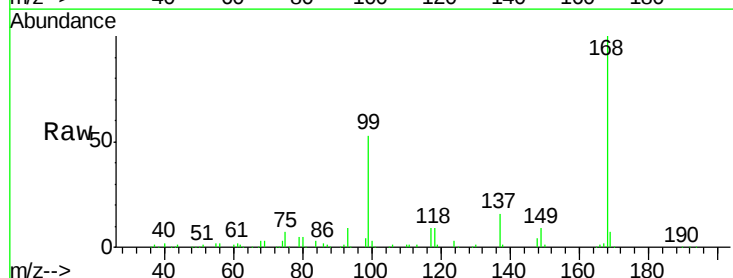
#35
 Dibromofluoromethane
 Concen: 50.296 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

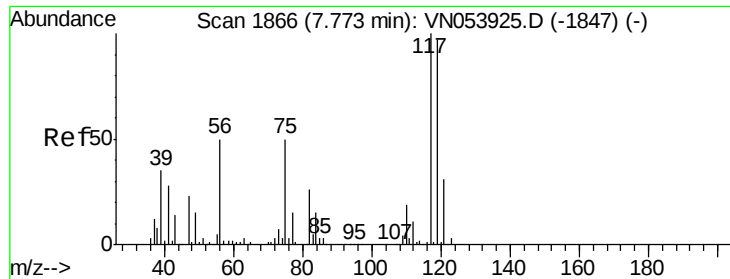
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.1	121.7
192	21.2	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 3.996 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	19.0	57.0#
77	0.0	25.4	38.0#





#38

Carbon Tetrachloride

Concen: 4.899 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

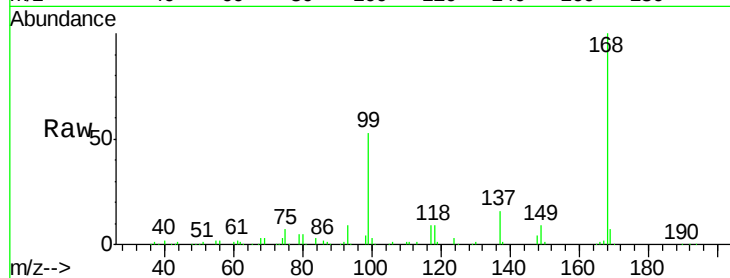
Tot Ion:117 Resp: 51150

Ion Ratio Lower Upper

117 100

119 5.8 76.2 114.2#

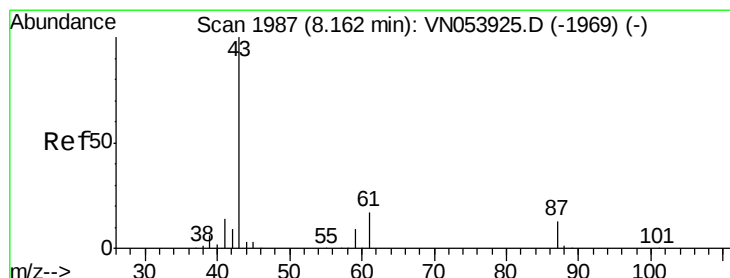
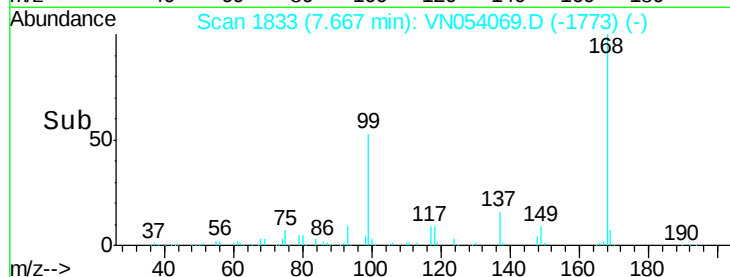
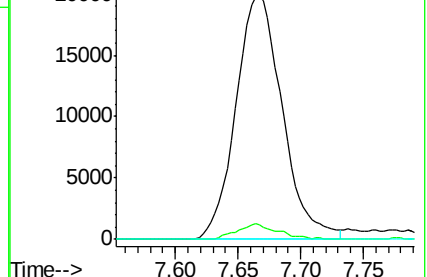
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.041 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

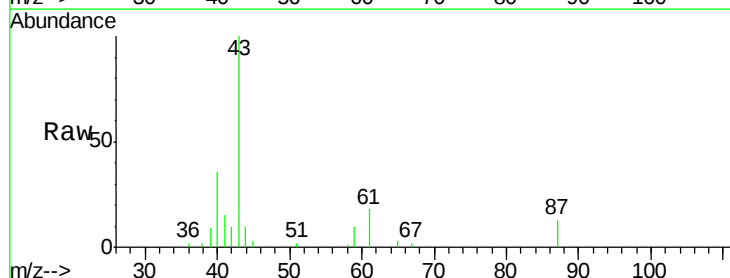
Tgt Ion: 43 Resp: 36811

Ion Ratio Lower Upper

43 100

61 17.5 17.4 26.0

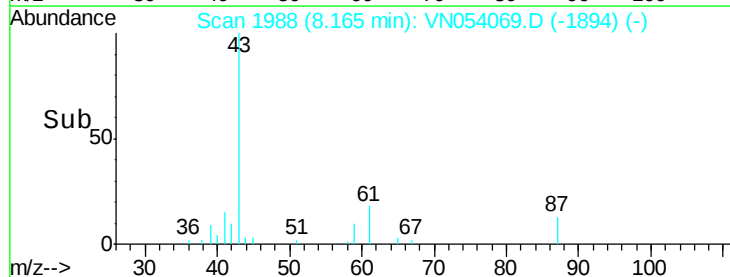
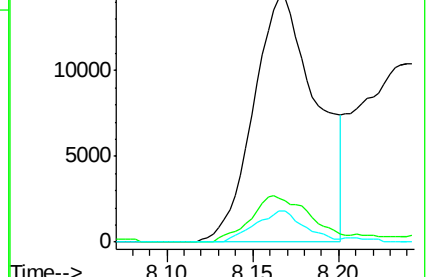
87 9.9 11.5 17.3#

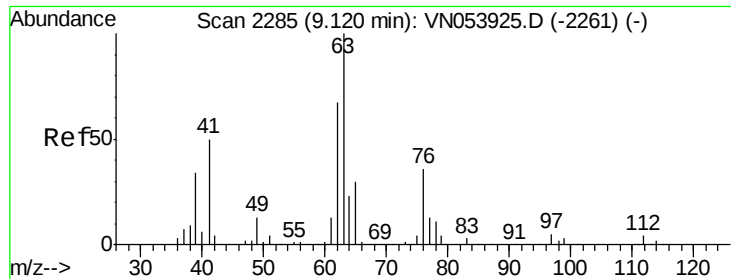


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

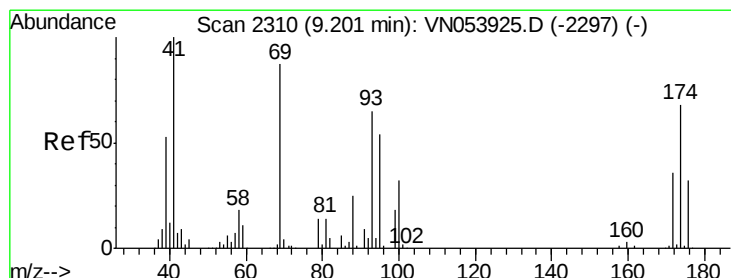
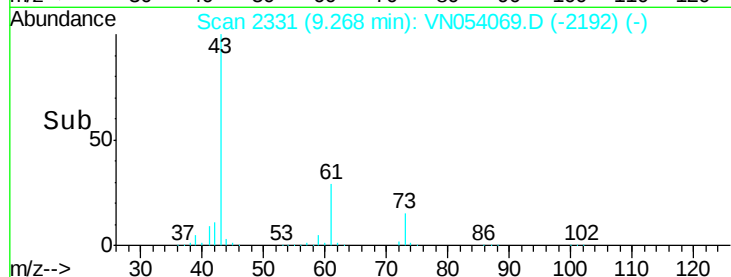
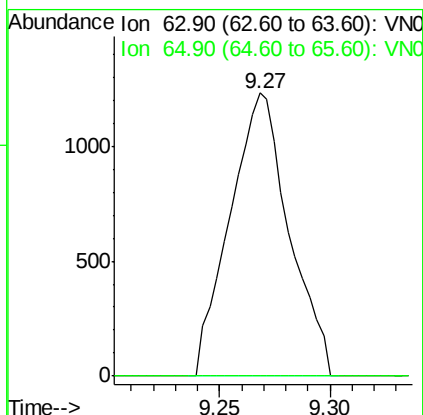
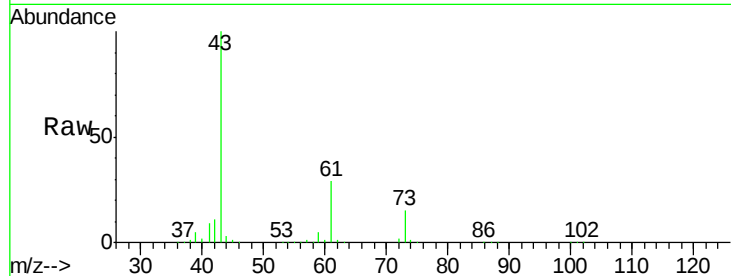
Ion 87.00 (86.70 to 87.70): V





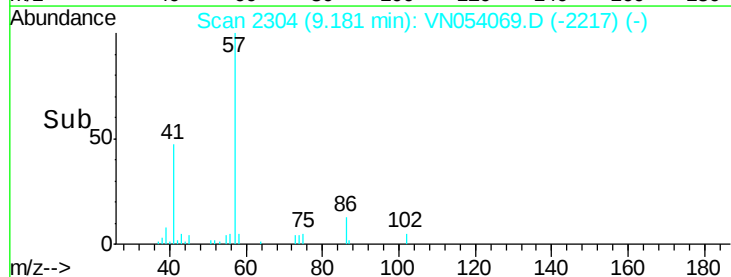
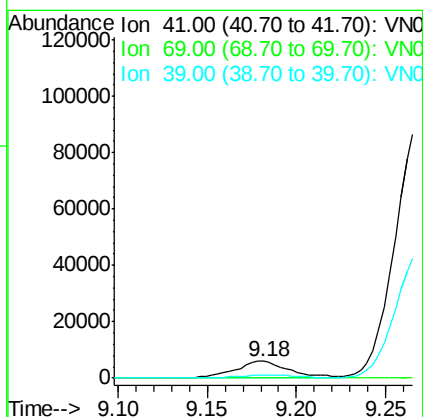
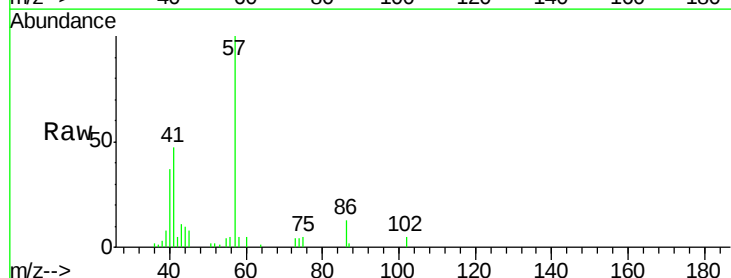
#45
 1,2-Dichloropropane
 Concen: 0.275 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

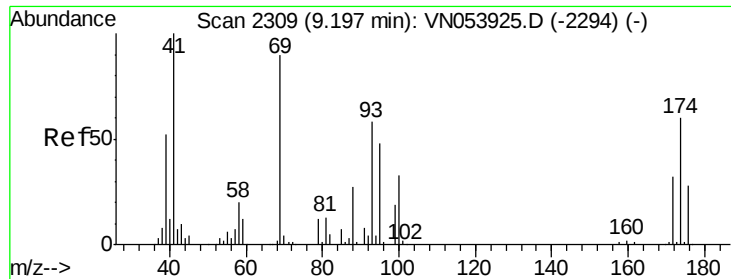
Tot Ion: 63 Resp: 2291
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.3 36.5#



#48
 Methyl methacrylate
 Concen: 2.093 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

Tgt Ion: 41 Resp: 11651
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.8 112.2#
 39 0.0 39.0 58.6#





#49

1,4-Dioxane

Concen: 2.679 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

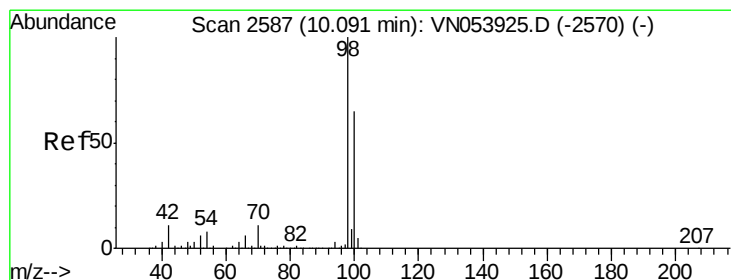
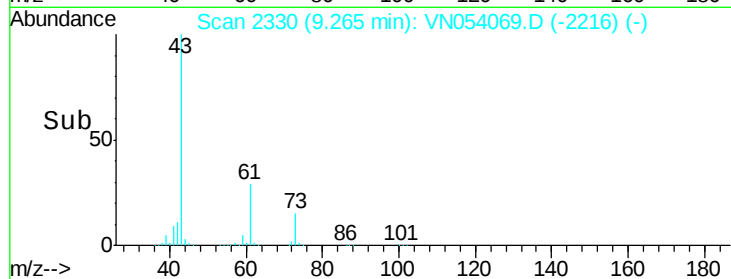
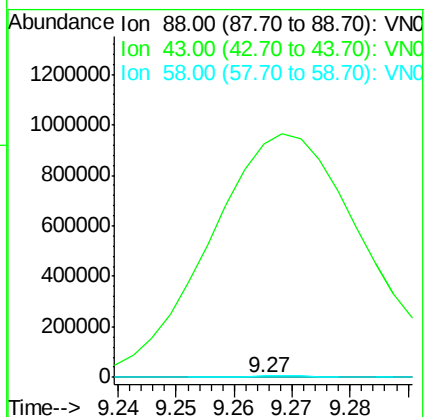
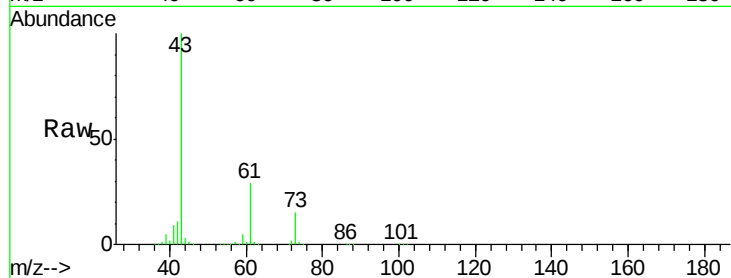
Tot Ion: 88 Resp: 202

Ion Ratio Lower Upper

88 100

43 968756.9 21.2 31.8#

58 4632.2 54.2 81.2#



#50

Toluene-d8

Concen: 53.628 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054069.D

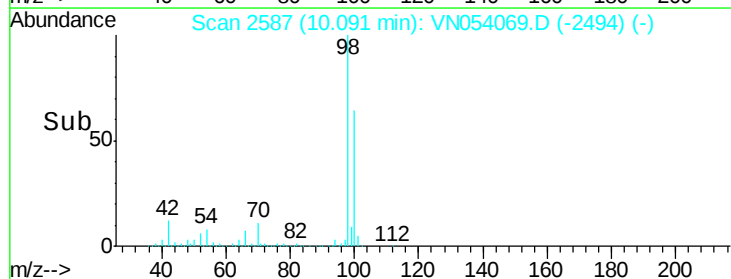
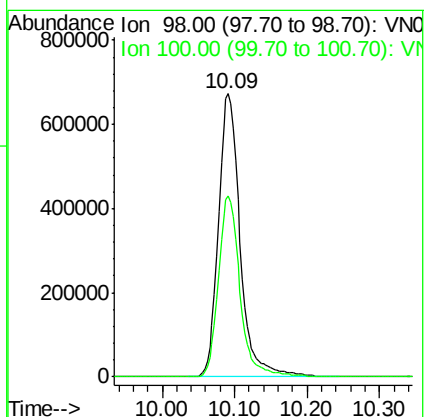
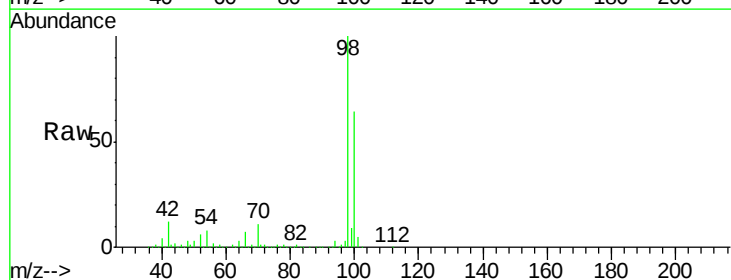
Acq: 4 Mar 2019 16:53

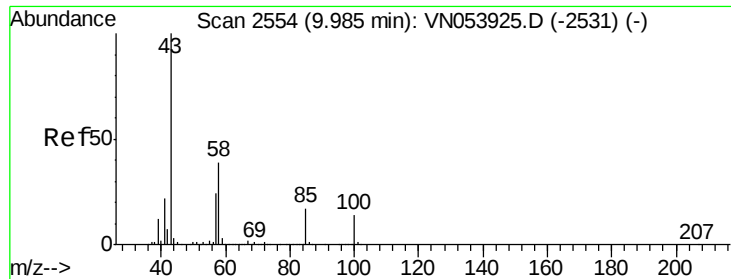
Tgt Ion: 98 Resp: 1393653

Ion Ratio Lower Upper

98 100

100 63.7 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 1.753 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054069.D

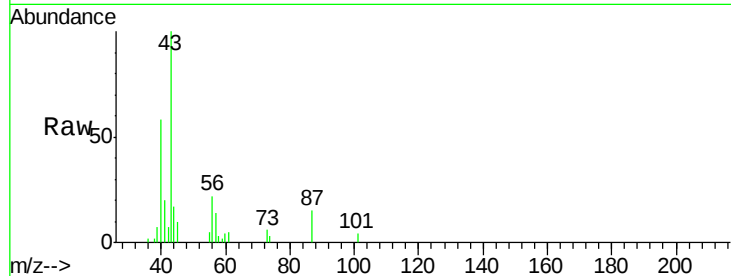
Acq: 4 Mar 2019 16:53

Tot Ion: 43 Resp: 10906

Ion Ratio Lower Upper

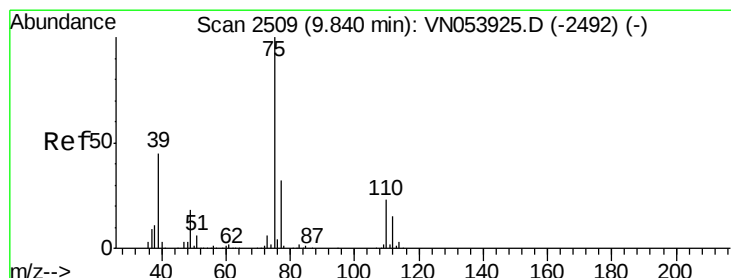
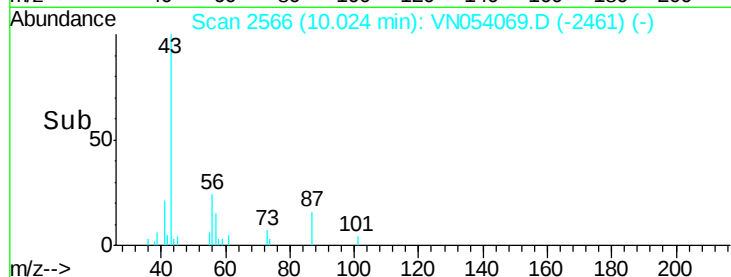
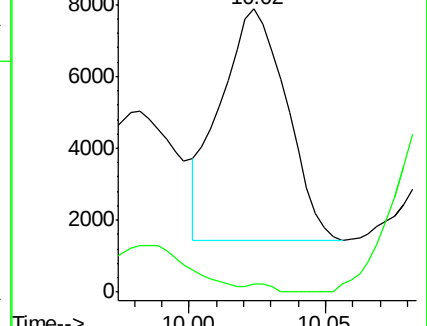
43 100

58 0.0 32.7 49.1#



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: 6.922 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

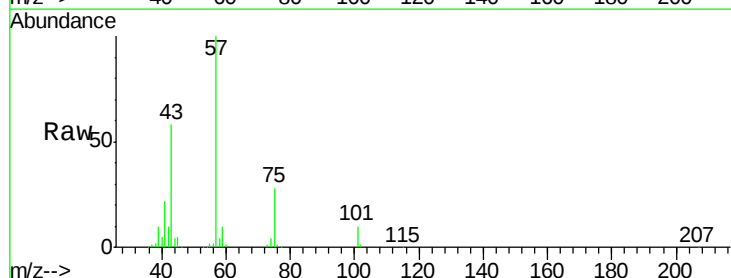
Tgt Ion: 75 Resp: 80834

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

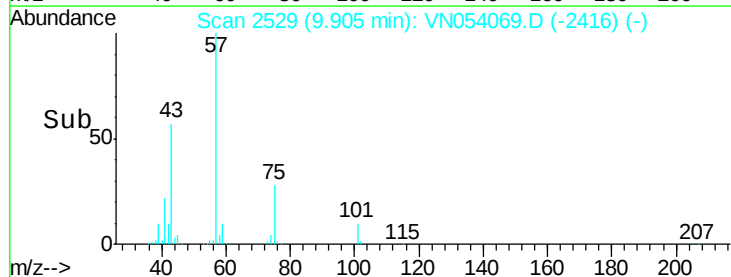
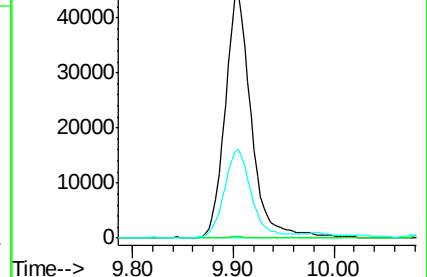
39 36.3 31.4 47.0

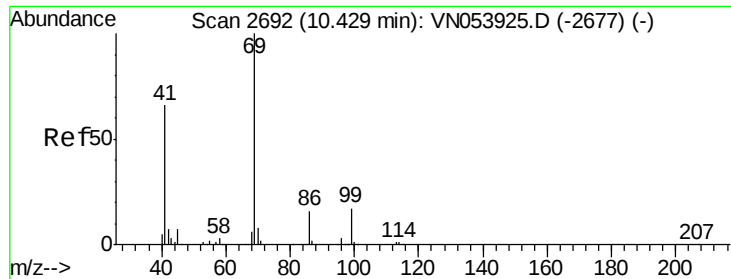


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 2.190 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

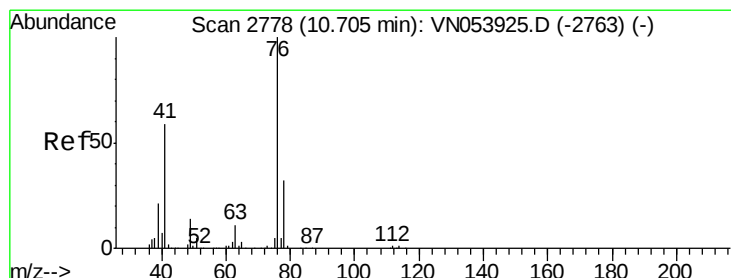
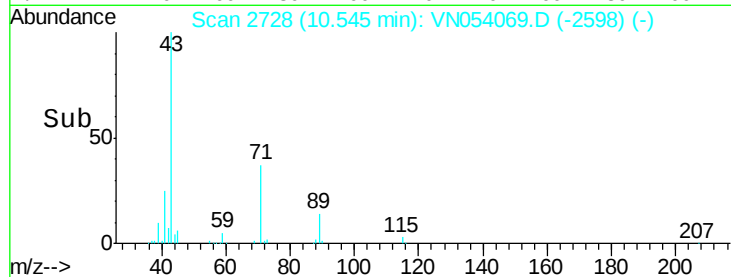
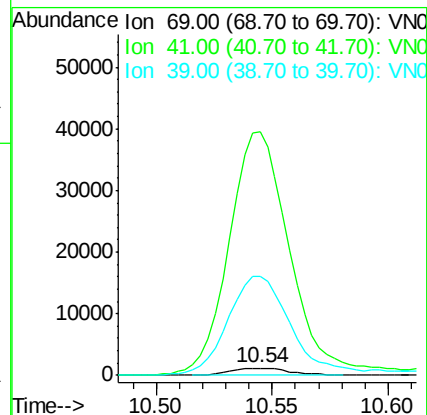
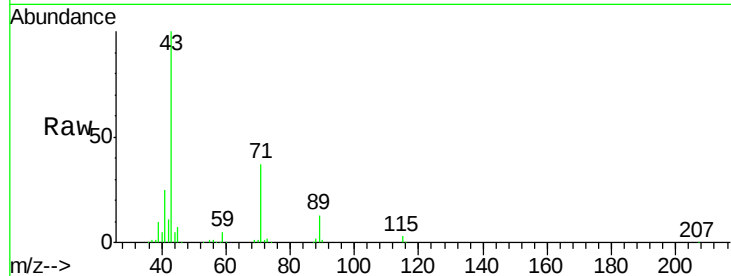
Tot Ion: 69 Resp: 2171

Ion Ratio Lower Upper

69 100

41 3345.6 47.5 71.3#

39 1427.5 23.4 35.0#



#57

1,3-Dichloropropane

Concen: 1.320 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054069.D

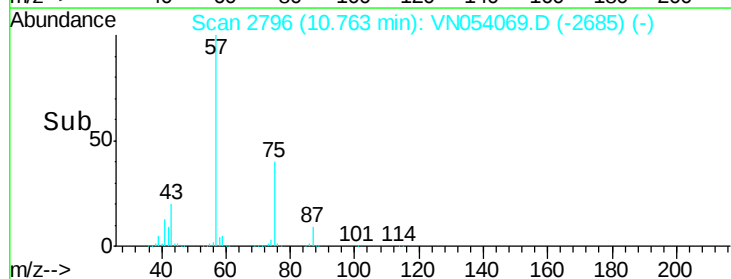
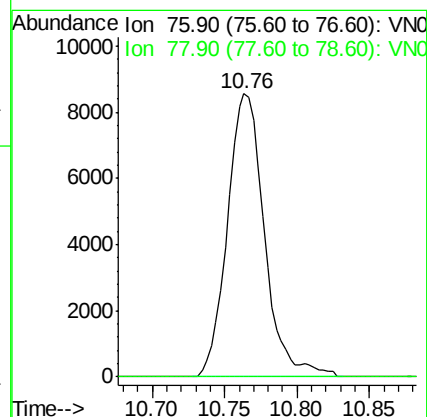
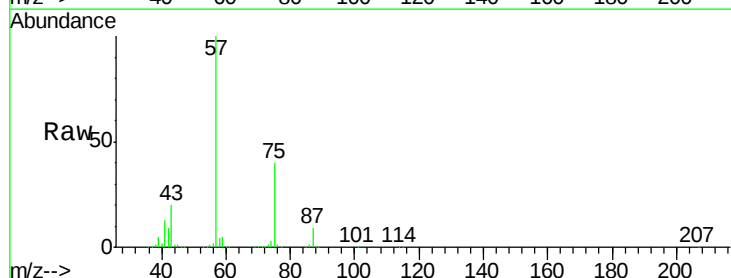
Acq: 4 Mar 2019 16:53

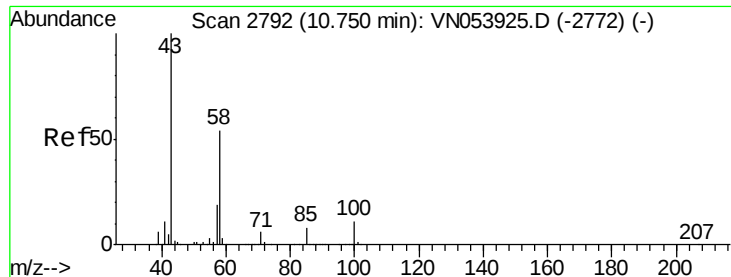
Tgt Ion: 76 Resp: 15124

Ion Ratio Lower Upper

76 100

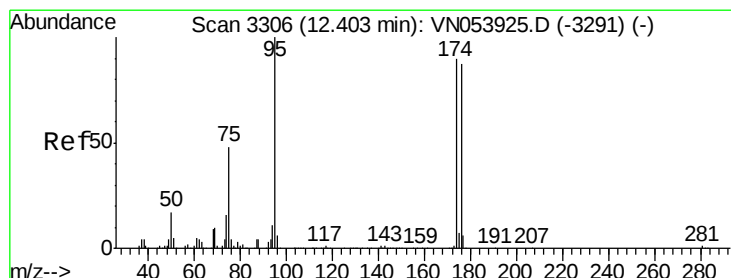
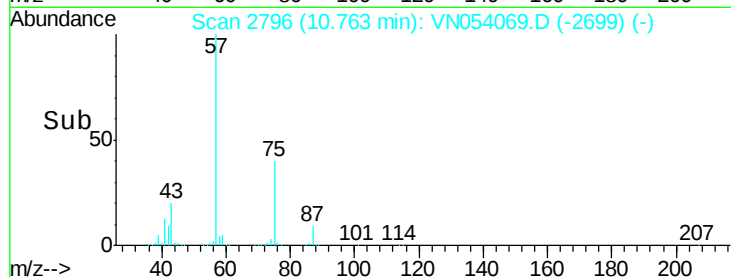
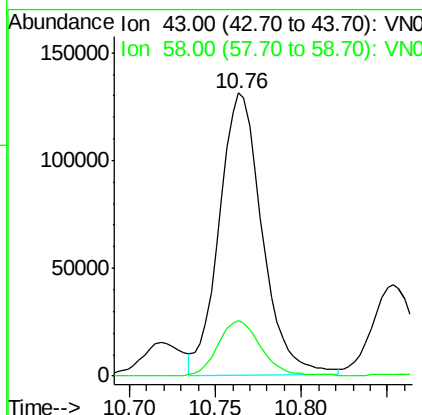
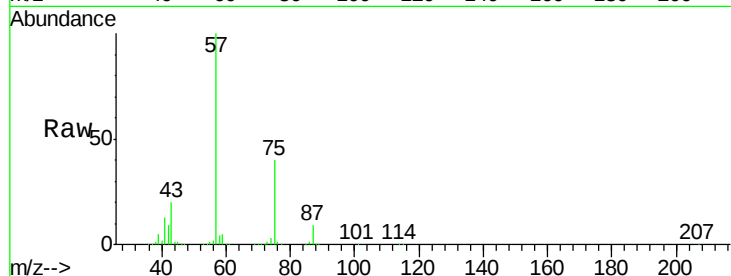
78 0.0 25.2 37.8#





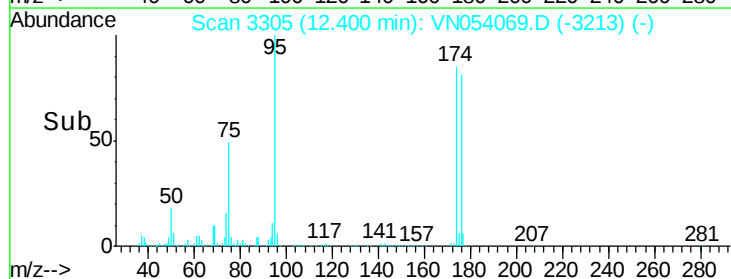
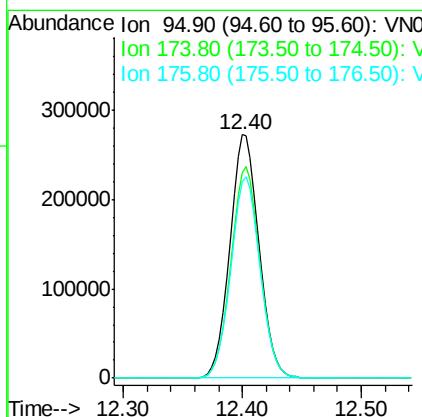
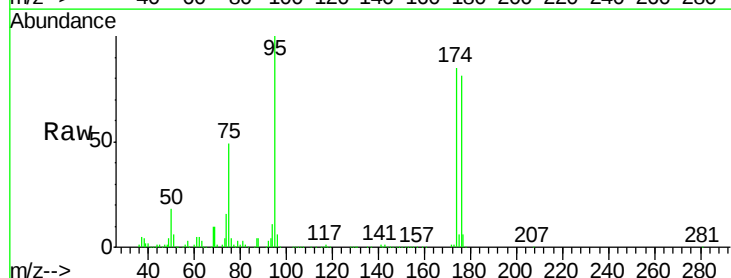
#59
2-Hexanone
Concen: 56.217 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

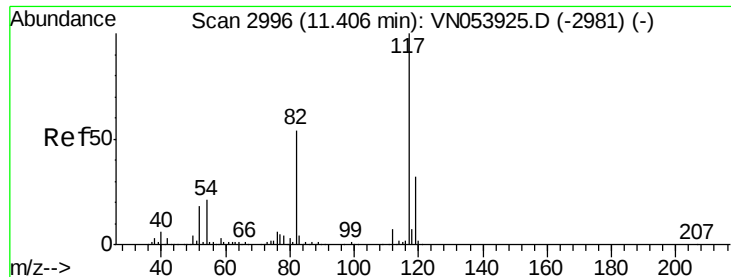
Tot Ion: 43 Resp: 227409
Ion Ratio Lower Upper
43 100
58 20.1 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 53.257 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

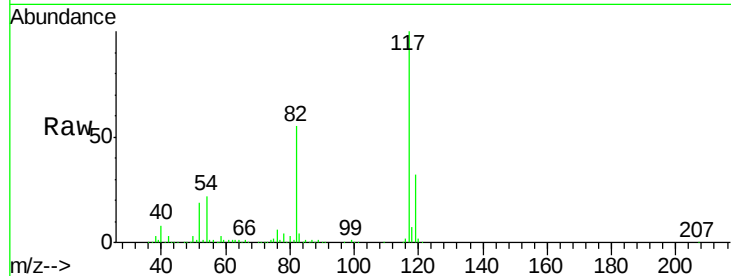
Tgt Ion: 95 Resp: 461120
Ion Ratio Lower Upper
95 100
174 86.7 0.0 188.8
176 83.1 0.0 182.6



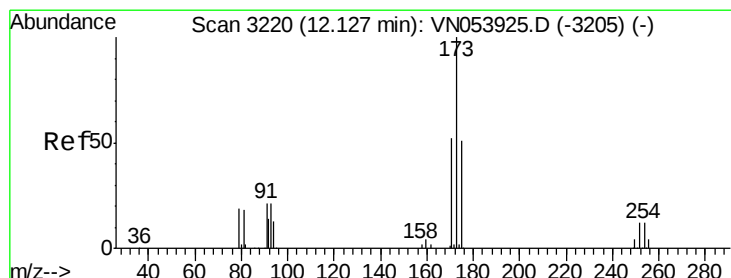
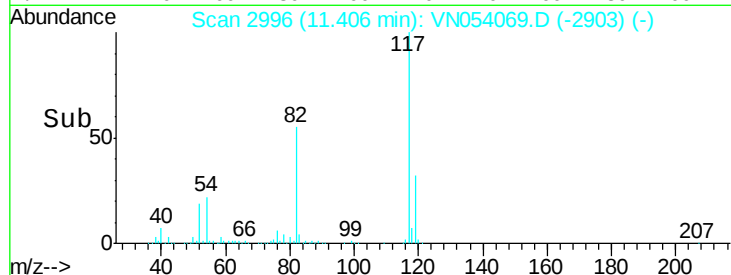
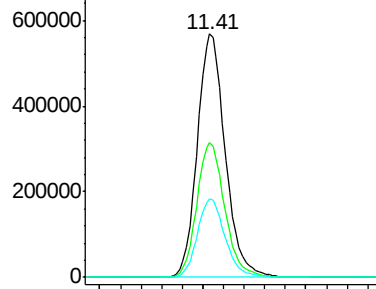


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

Tot Ion:117 Resp: 1071715
Ion Ratio Lower Upper
117 100
82 55.3 41.4 62.2
119 32.2 25.3 37.9

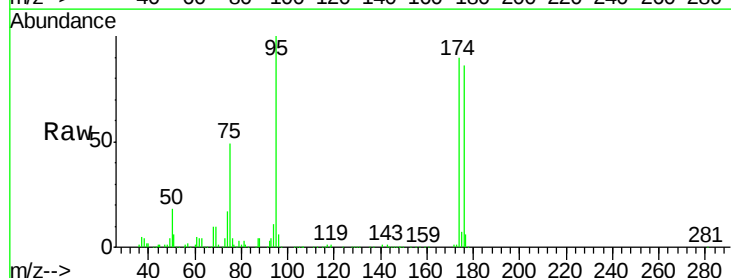


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

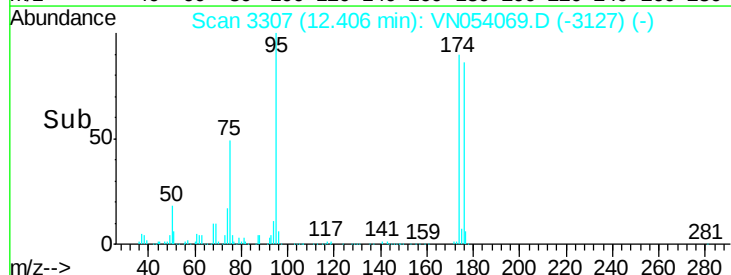
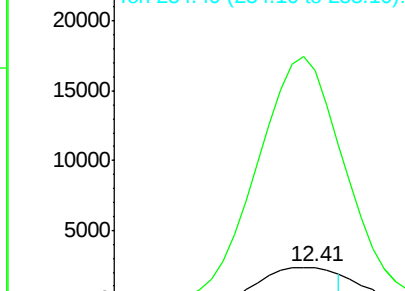


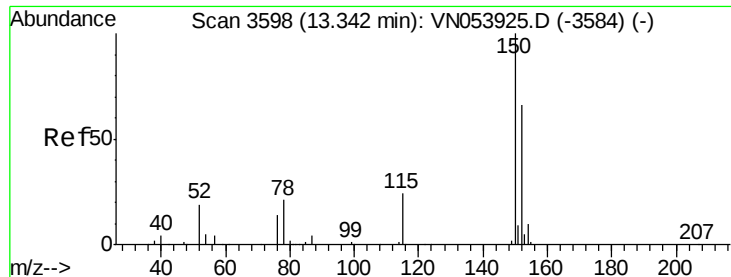
#71
Bromoform
Concen: 0.581 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

Tgt Ion:173 Resp: 3295
Ion Ratio Lower Upper
173 100
175 765.0 24.3 72.8#
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

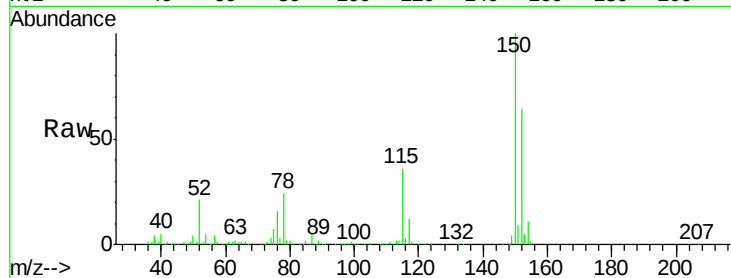




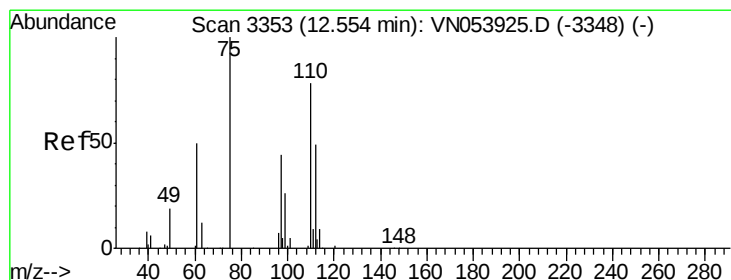
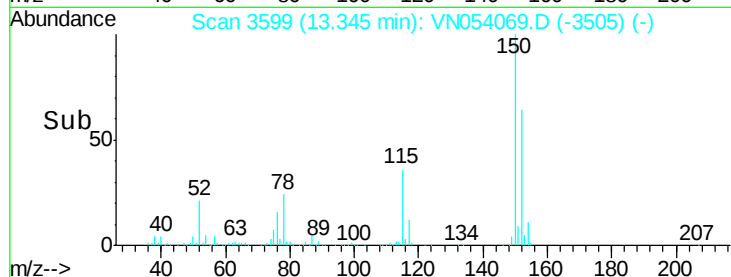
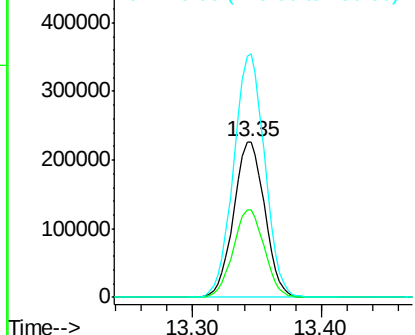
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.5	27.2	81.6
150	156.4	0.0	348.2



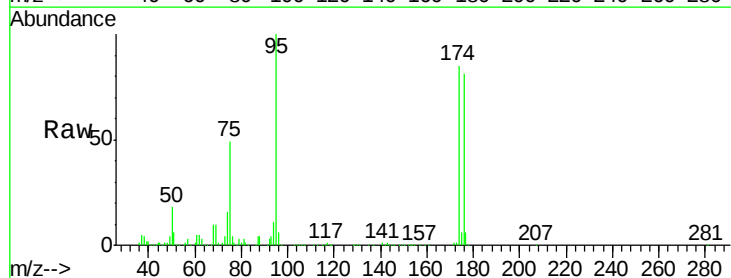
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



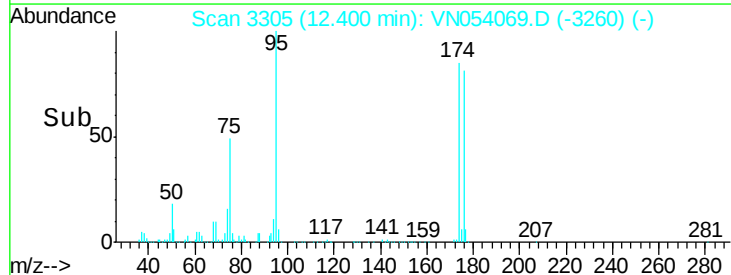
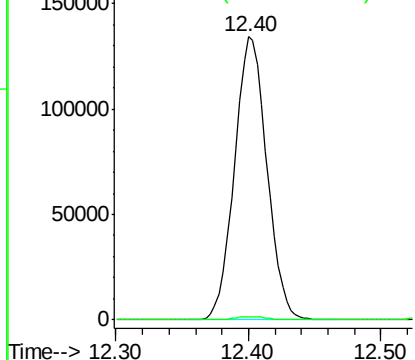
#76

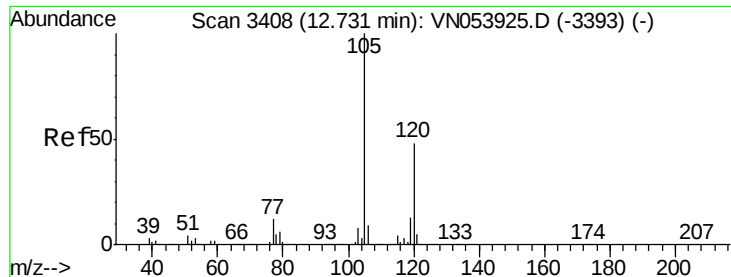
1,2,3-Trichloropropane
Concen: 37.323 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054069.D
Acq: 4 Mar 2019 16:53

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



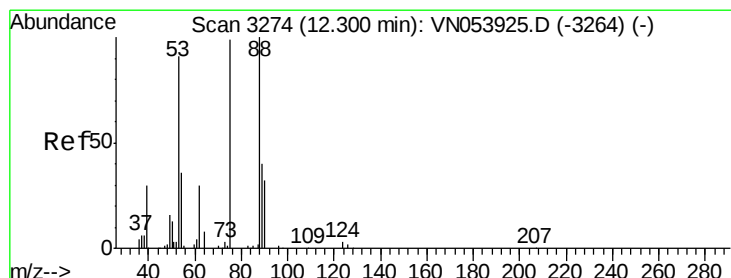
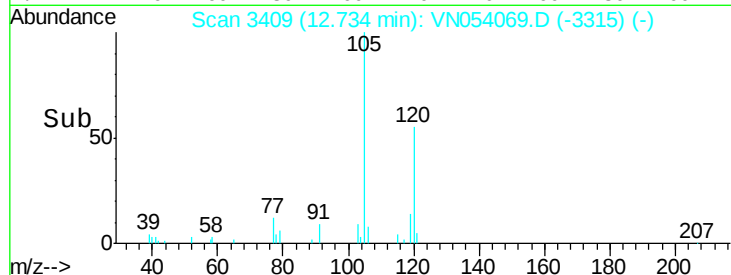
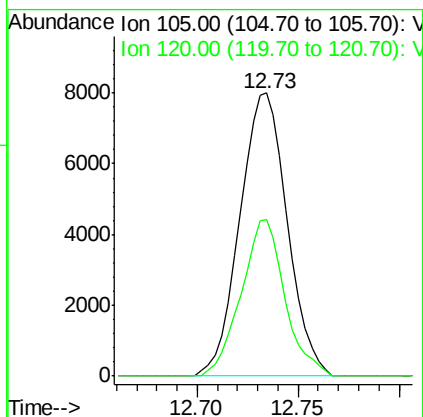
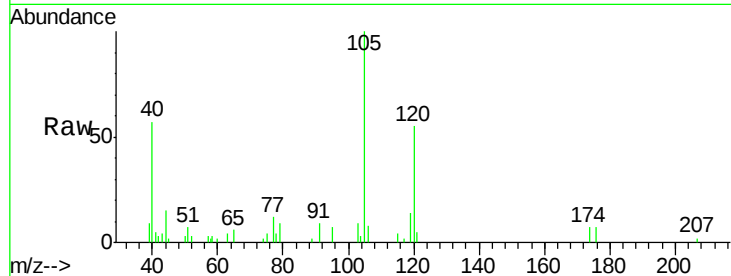
Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





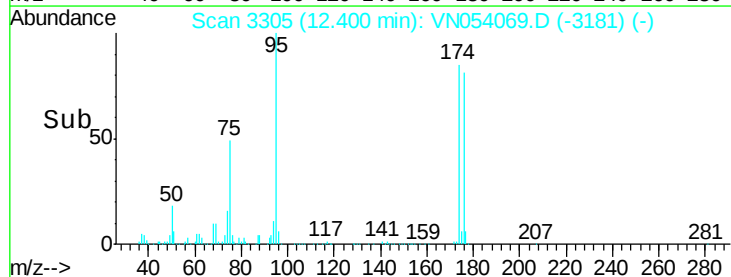
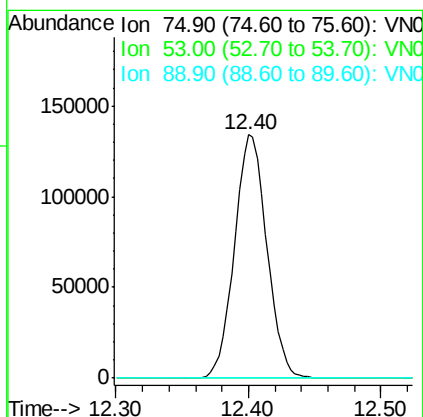
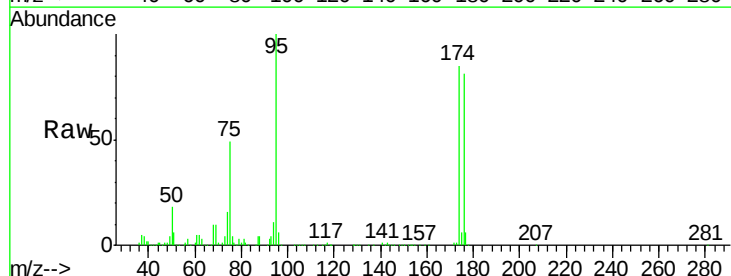
#80
 1,3,5-Trimethylbenzene
 Concen: 0.543 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

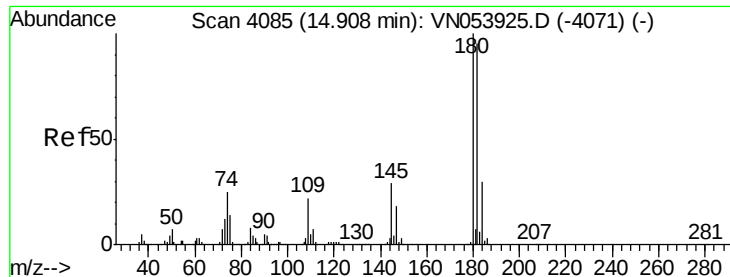
Tot Ion:105 Resp: 13157
 Ion Ratio Lower Upper
 105 100
 120 51.0 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.964 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

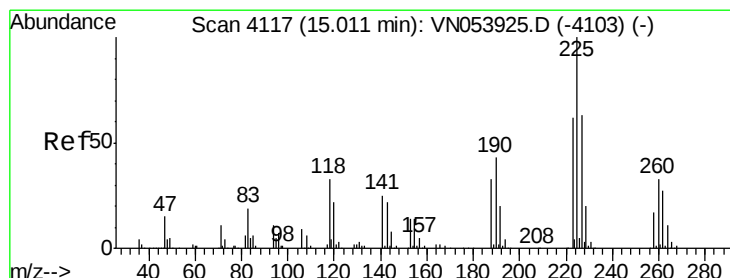
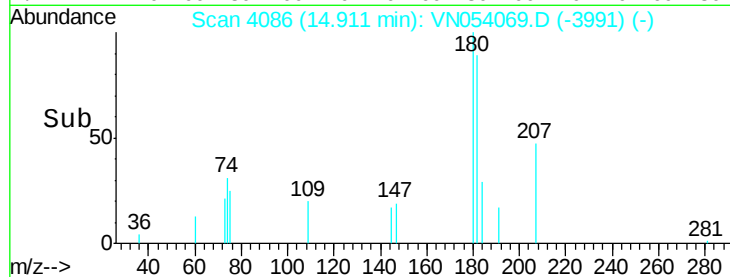
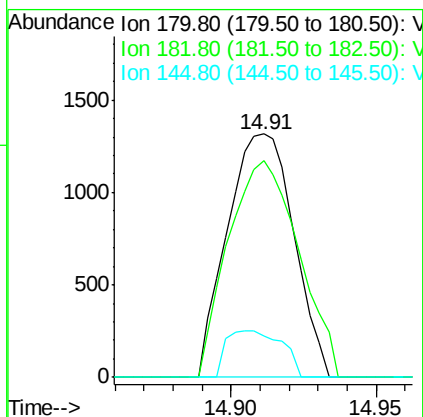
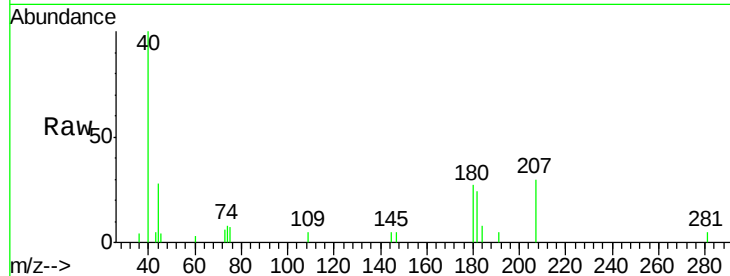
Tgt Ion: 75 Resp: 227559
 Ion Ratio Lower Upper
 75 100
 53 0.1 68.6 102.8#
 89 0.0 35.3 52.9#





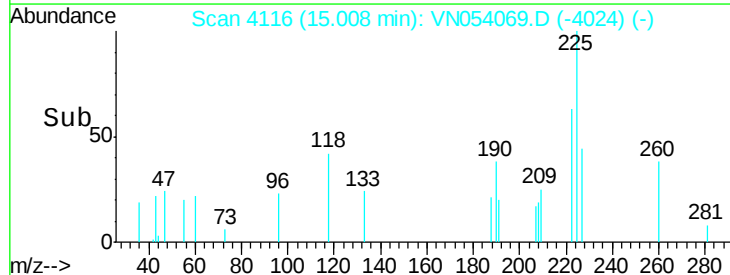
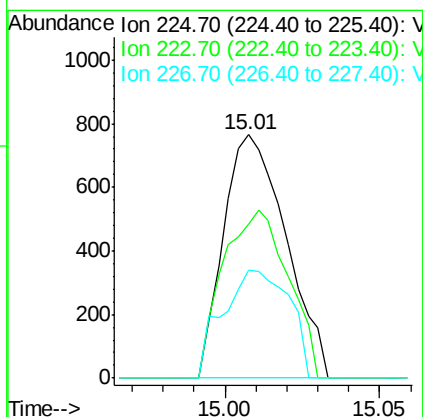
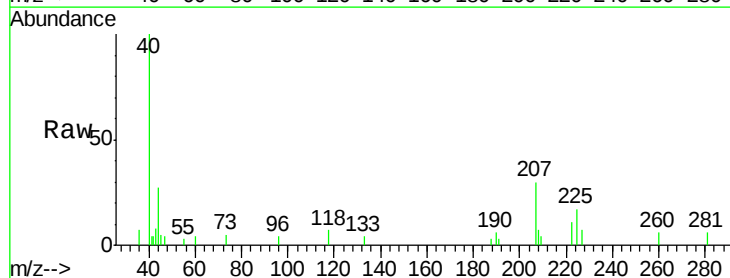
#93
 1,2,4-Trichlorobenzene
 Concen: 2.509 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

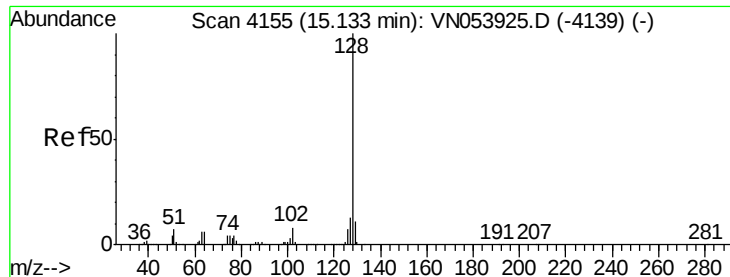
Tot Ion:180 Resp: 2093
 Ion Ratio Lower Upper
 180 100
 182 94.3 48.6 145.9
 145 16.0 13.8 41.3



#94
 Hexachlorobutadiene
 Concen: 0.235 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054069.D
 Acq: 4 Mar 2019 16:53

Tgt Ion:225 Resp: 1070
 Ion Ratio Lower Upper
 225 100
 223 72.3 30.9 92.5
 227 47.1 32.5 97.4





#95

Naphthalene

Concen: 3.541 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

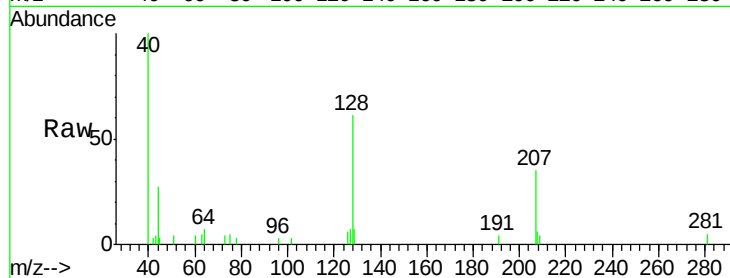
Tot Ion:128 Resp: 5294

Ion Ratio Lower Upper

128 100

127 8.4 10.2 15.2#

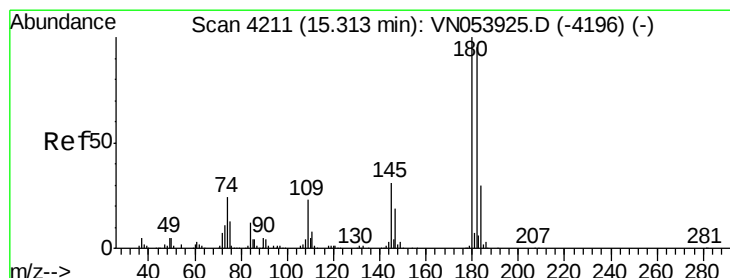
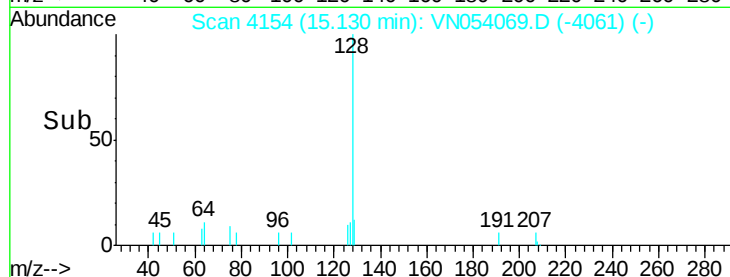
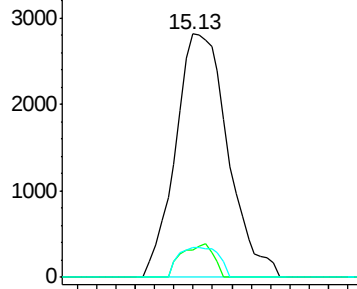
129 9.4 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 1.908 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054069.D

Acq: 4 Mar 2019 16:53

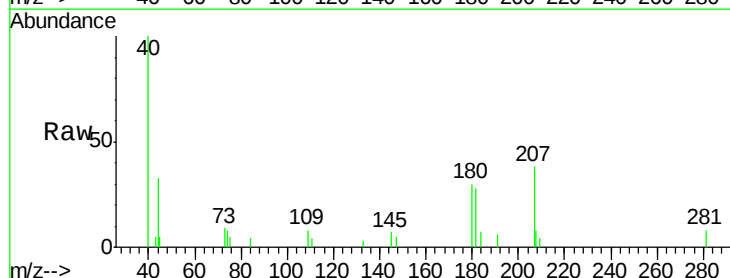
Tgt Ion:180 Resp: 2424

Ion Ratio Lower Upper

180 100

182 93.9 47.3 141.8

145 21.9 14.4 43.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

