

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
 Data File : VN050027.D
 Acq On : 24 Jul 2018 17:58
 Operator : MD\SY
 Sample : J4111-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 25 00:50:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 06:27:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	615344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1008455	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	846844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	302073	50.00	ug/l	0.00

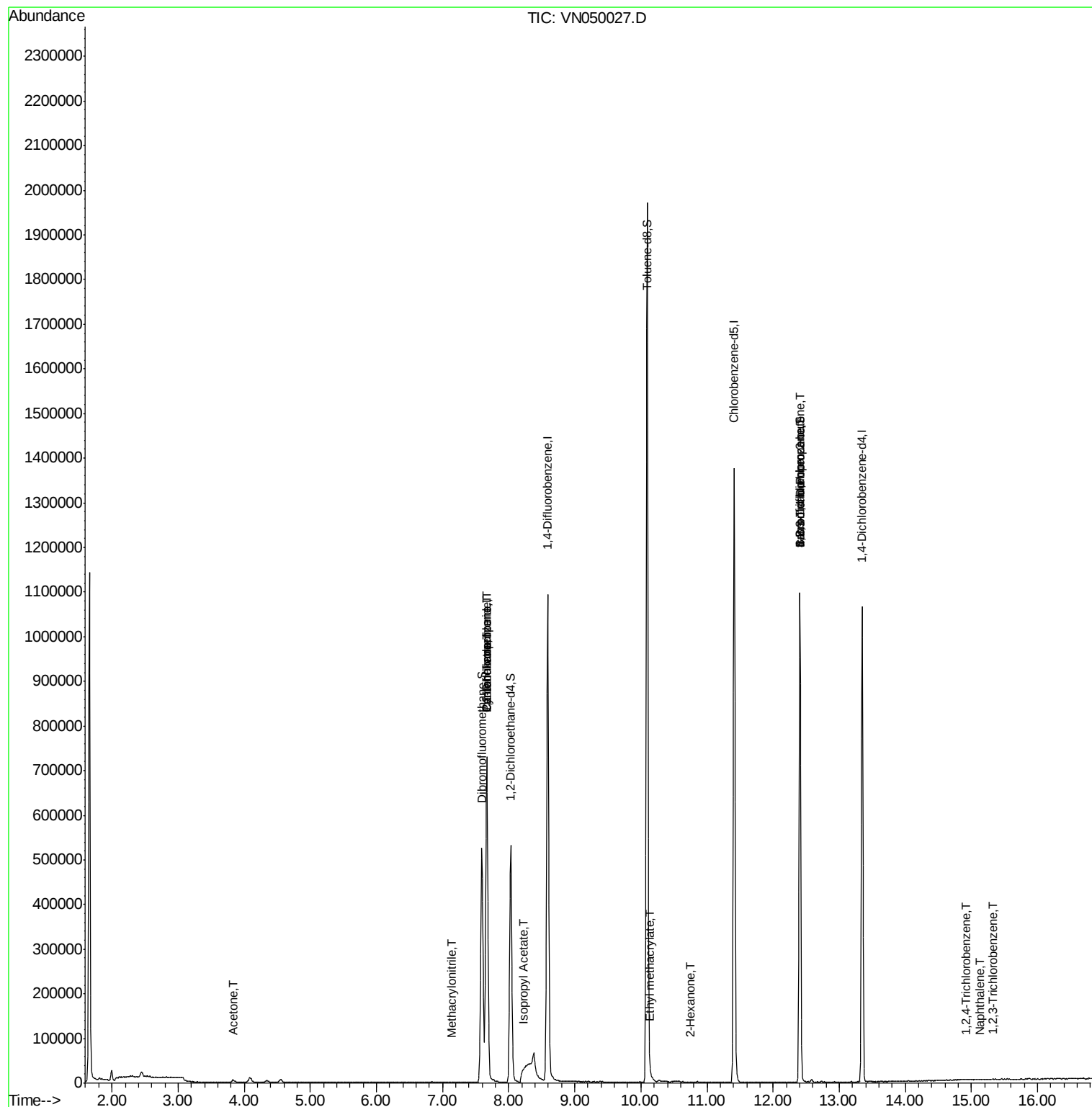
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	452047	52.65	ug/l	0.00
Spiked Amount						
			Recovery	=	105.30%	
35) Dibromofluoromethane	7.59	113	396503	48.16	ug/l	0.00
Spiked Amount						
			Recovery	=	96.32%	
50) Toluene-d8	10.09	98	1380171	45.59	ug/l	0.00
Spiked Amount						
			Recovery	=	91.18%	
62) 4-Bromofluorobenzene	12.41	95	365529	36.67	ug/l	0.00
Spiked Amount						
			Recovery	=	73.34%	

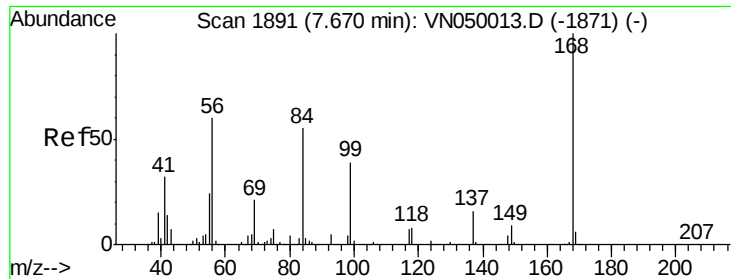
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	372	Below Cal	#	3
16) Acetone	3.83	43	10141	0.68	ug/l	99
18) Methyl Acetate	4.34	43	7438	Below Cal	#	67
20) Methylene Chloride	4.56	84	5236	Below Cal	#	86
31) Cyclohexane	7.67	56	12454	0.99	ug/l	12
36) 1,1-Dichloropropene	7.67	75	43426	3.82	ug/l	49
38) Carbon Tetrachloride	7.67	117	56966	4.73	ug/l	16
41) Methacrylonitrile	7.14	41	95	2.77	ug/l	10
43) Isopropyl Acetate	8.22	43	20501	0.24	ug/l	63
56) Ethyl methacrylate	10.15	69	65	2.04	ug/l	57
59) 2-Hexanone	10.76	43	303	5.23	ug/l	37
71) Bromoform	12.40	173	2998	0.50	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	311	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.41	75	178921	31.87	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.41	75	178921	101.09	ug/l	13
93) 1,2,4-Trichlorobenzene	14.91	180	201	3.12	ug/l	40
95) Naphthalene	15.13	128	176	4.43	ug/l	69
96) 1,2,3-Trichlorobenzene	15.32	180	32	2.21	ug/l	1

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050027.D

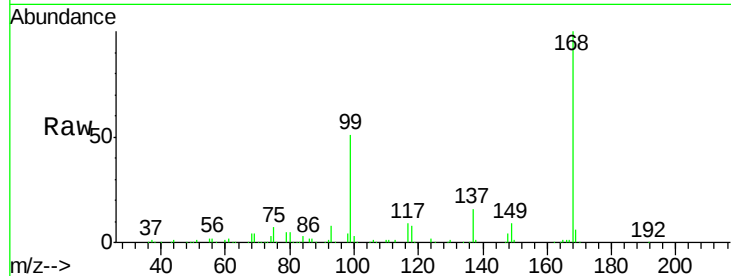
Acq: 24 Jul 2018 17:58

Tot Ion:168 Resp: 615344

Ion Ratio Lower Upper

168 100

99 51.0 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050013.D

Ion 98.90 (98.60 to 99.60): VN050013.D

7.67

250000

200000

150000

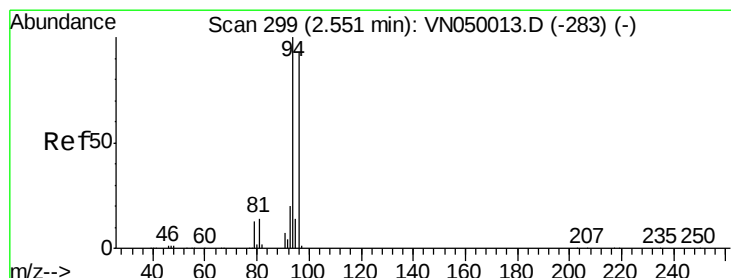
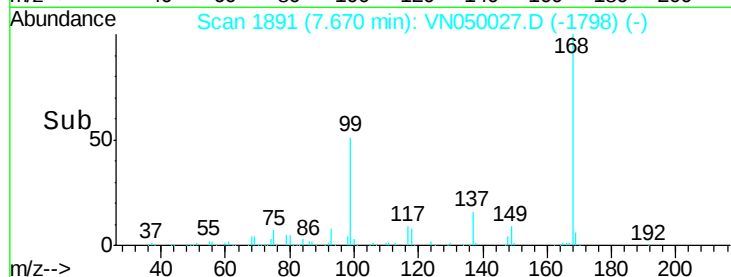
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 301

Delta R.T. 0.01 min

Lab File: VN050027.D

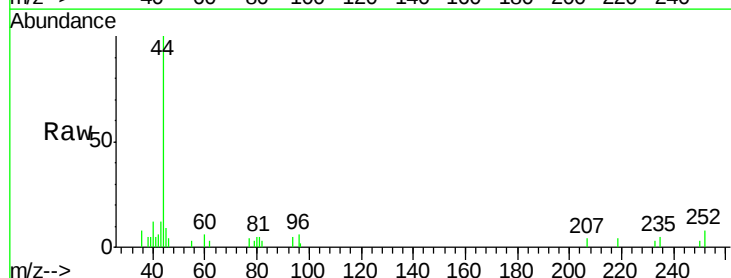
Acq: 24 Jul 2018 17:58

Tgt Ion: 94 Resp: 372

Ion Ratio Lower Upper

94 100

96 0.3 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050013.D

Ion 95.90 (95.60 to 96.60): VN050013.D

2.56

400

300

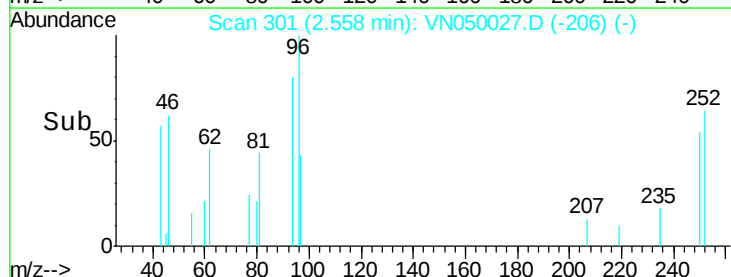
200

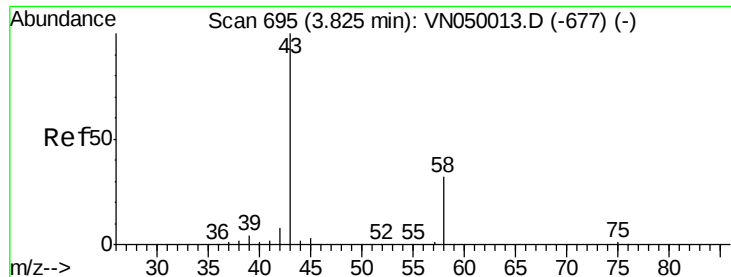
100

0

2.54 2.56 2.58

Time-->





#16

Acetone

Concen: 0.68 ug/l

RT: 3.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN050027.D

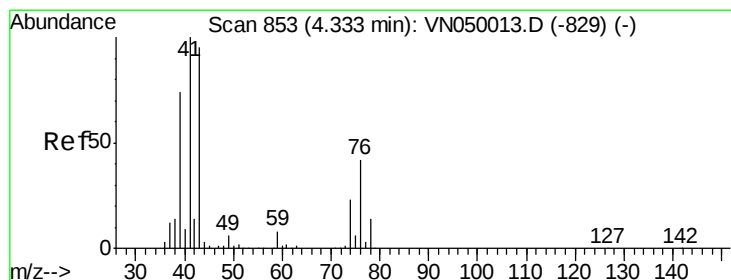
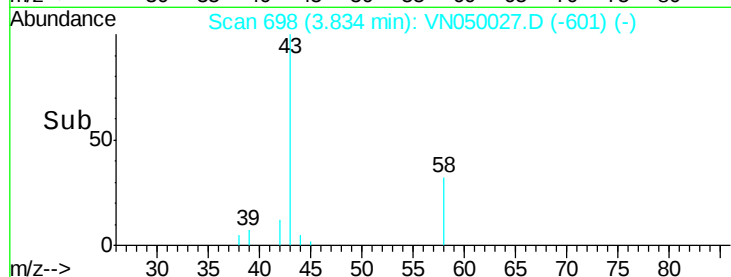
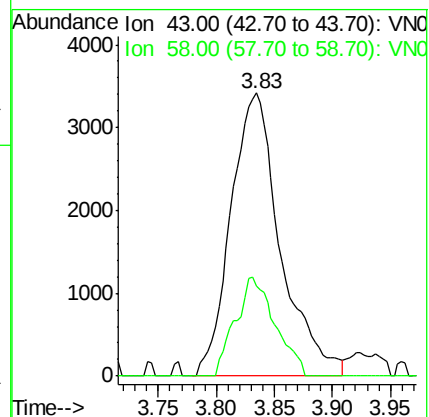
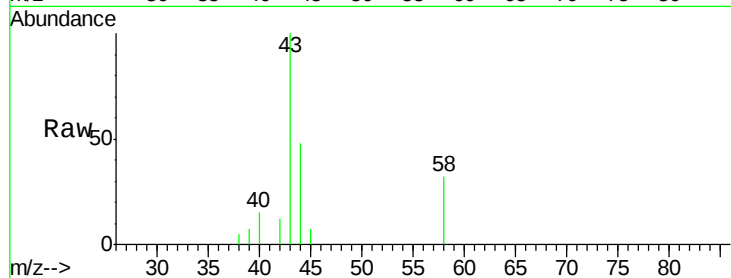
Acq: 24 Jul 2018 17:58

Tot Ion: 43 Resp: 10141

Ion Ratio Lower Upper

43 100

58 31.9 25.8 38.8



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050027.D

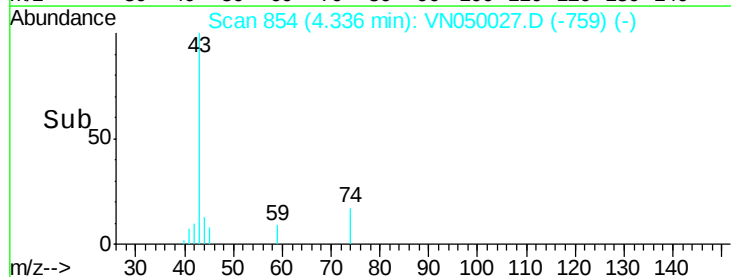
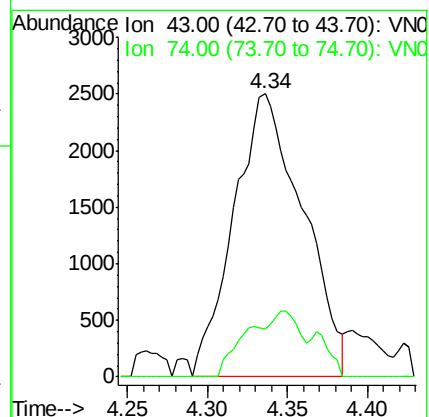
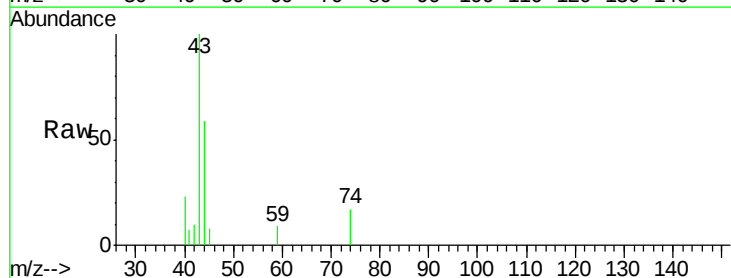
Acq: 24 Jul 2018 17:58

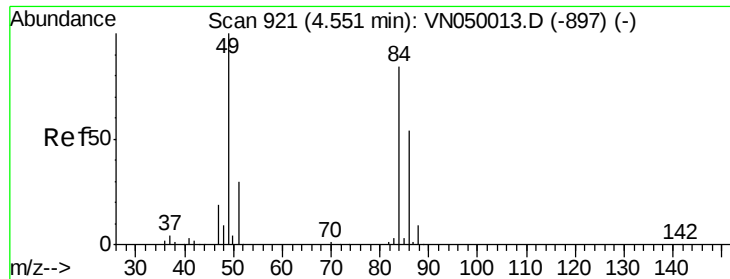
Tgt Ion: 43 Resp: 7438

Ion Ratio Lower Upper

43 100

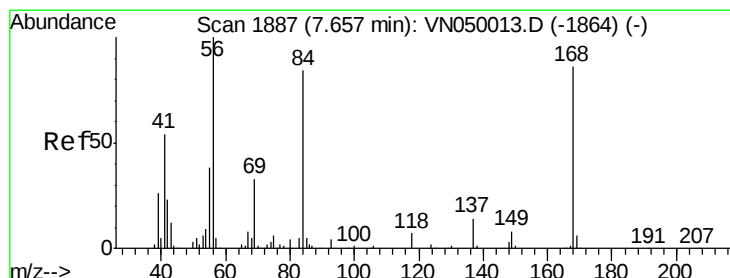
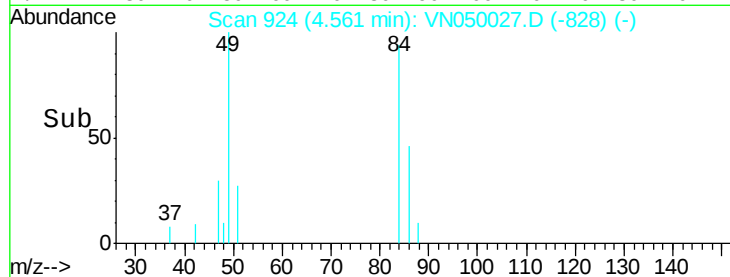
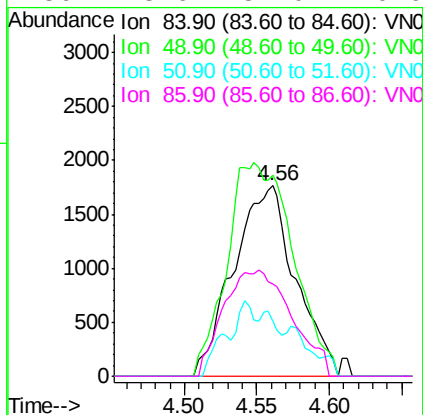
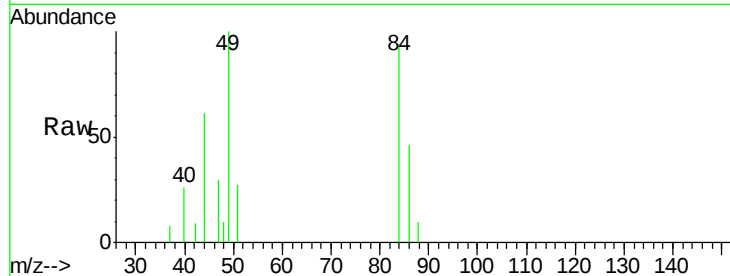
74 7.9 19.2 28.8#





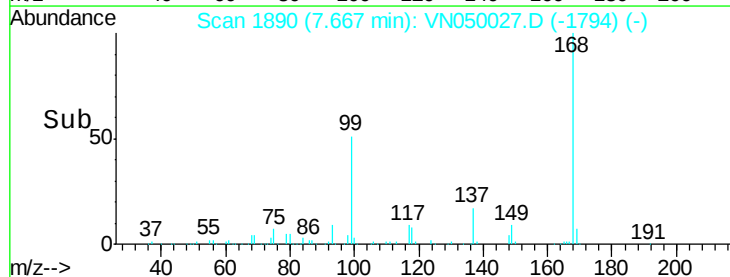
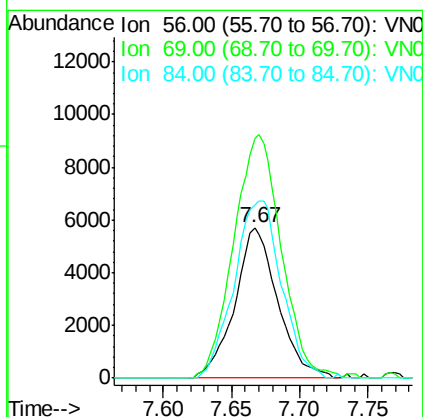
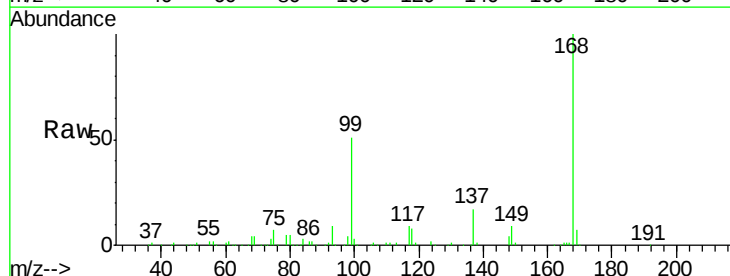
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 924
Delta R.T. 0.01 min
Lab File: VN050027.D
Acq: 24 Jul 2018 17:58

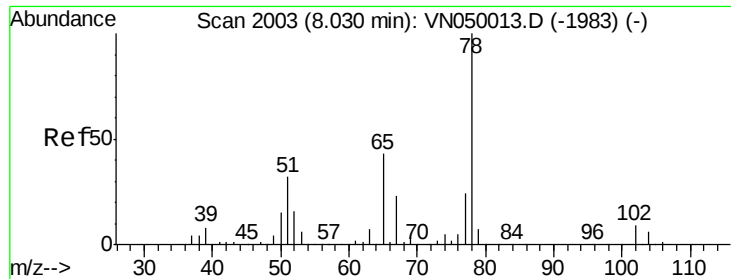
Tot Ion: 84 Resp: 5236
Ion Ratio Lower Upper
84 100
49 106.0 94.8 142.2
51 29.0 28.3 42.5
86 48.6 51.0 76.6#



#31
Cyclohexane
Concen: 0.99 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050027.D
Acq: 24 Jul 2018 17:58

Tgt Ion: 56 Resp: 12454
Ion Ratio Lower Upper
56 100
69 160.0 26.2 39.4#
84 115.6 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 52.65 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050027.D

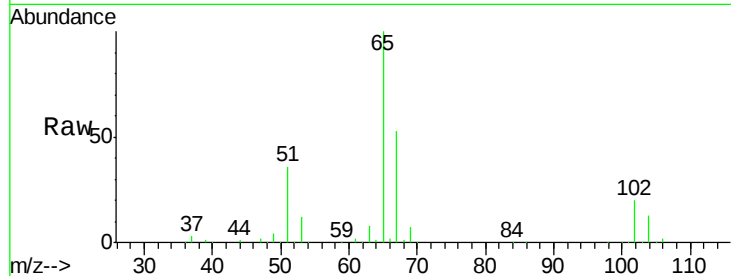
Acq: 24 Jul 2018 17:58

Tot Ion: 65 Resp: 452047

Ion Ratio Lower Upper

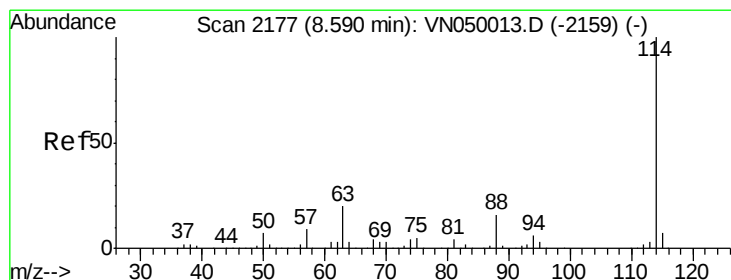
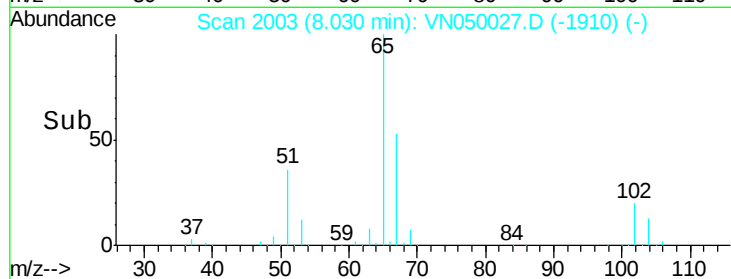
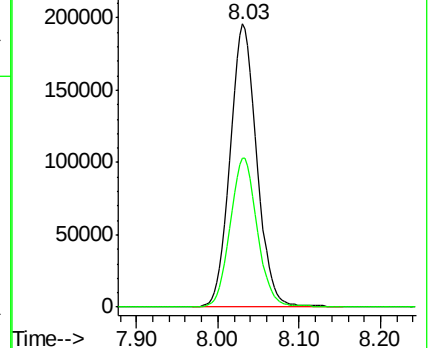
65 100

67 53.4 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

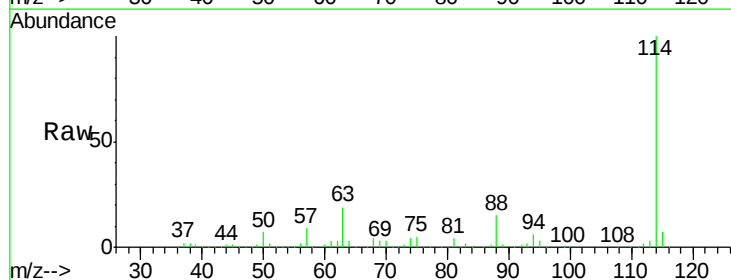
Tgt Ion: 114 Resp: 1008455

Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

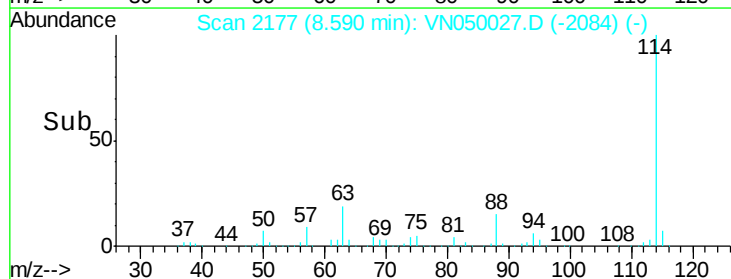
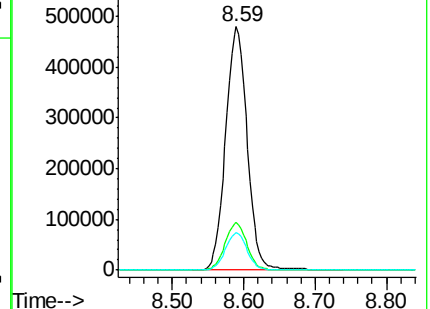
88 15.3 0.0 31.2

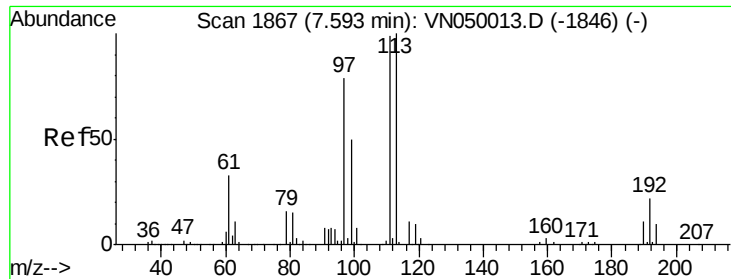


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

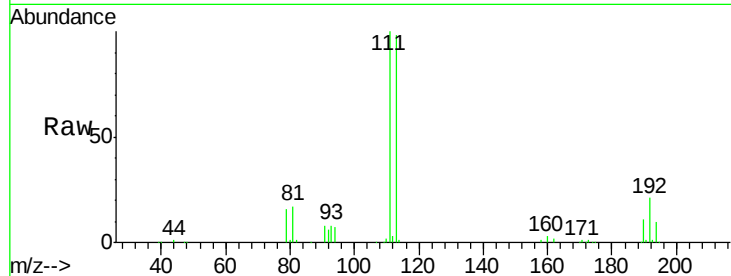
Ion 87.90 (87.60 to 88.60): VN0



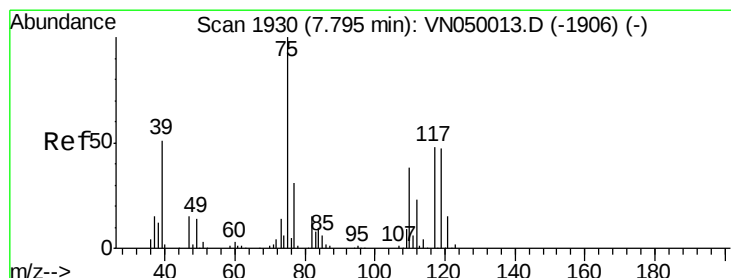
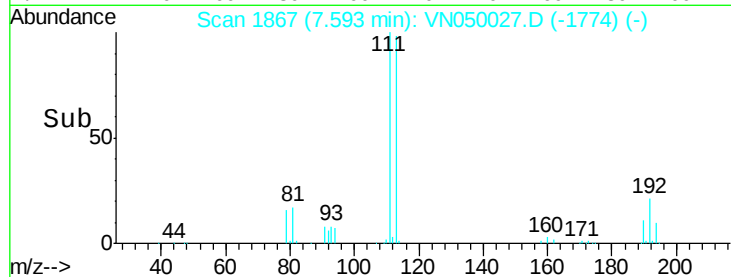
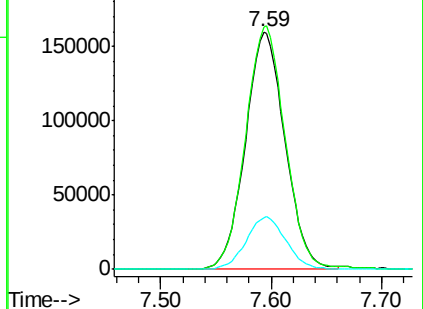


#35
 Dibromofluoromethane
 Concen: 48.16 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050027.D
 Acq: 24 Jul 2018 17:58

Tot Ion:113 Resp: 396503
 Ion Ratio Lower Upper
 113 100
 111 103.1 80.7 121.1
 192 22.3 17.8 26.6

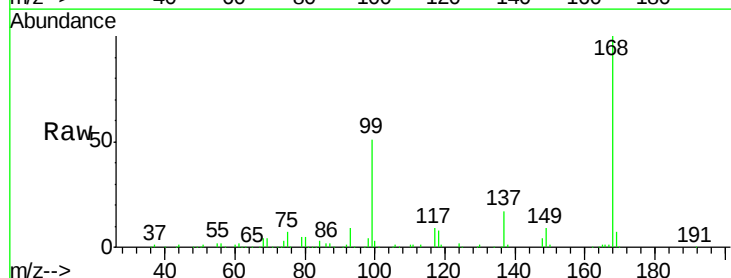


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

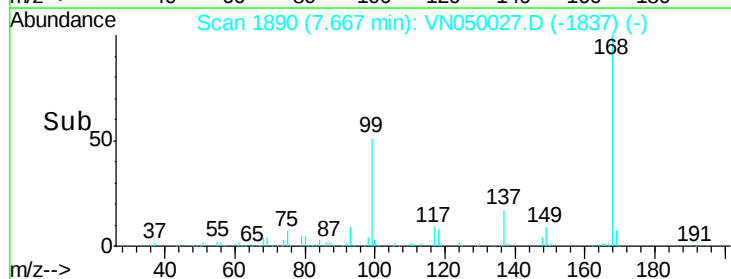
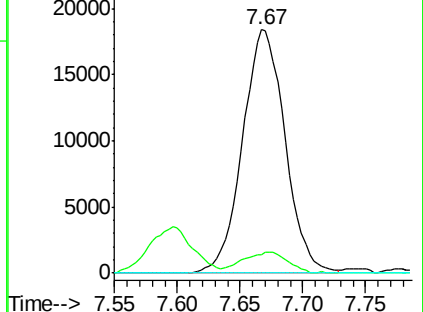


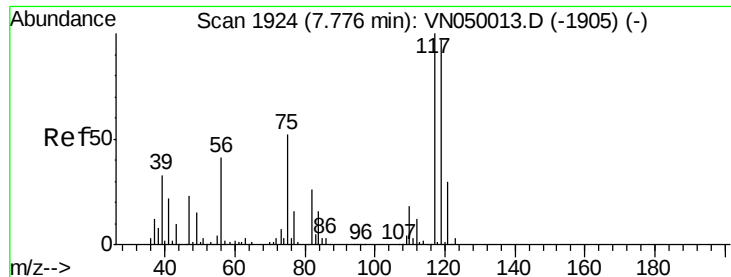
#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050027.D
 Acq: 24 Jul 2018 17:58

Tgt Ion: 75 Resp: 43426
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.4 55.2#
 77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

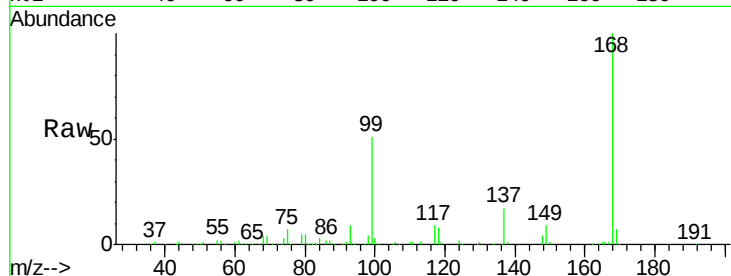
Tot Ion:117 Resp: 56966

Ion Ratio Lower Upper

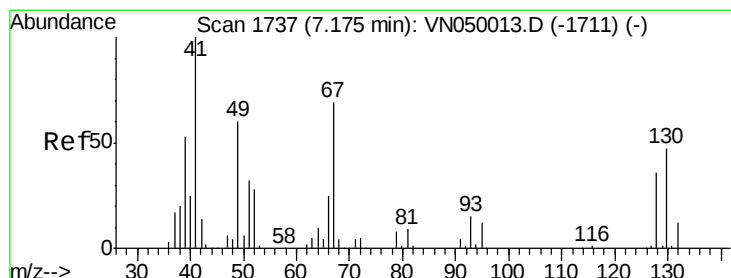
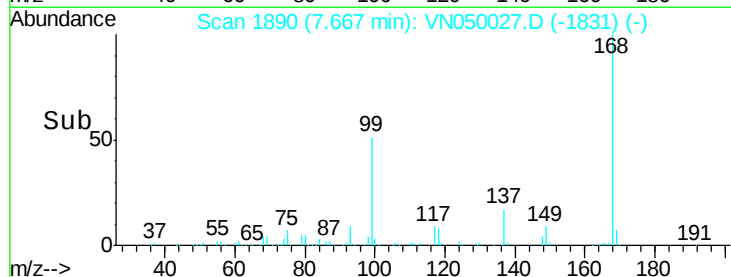
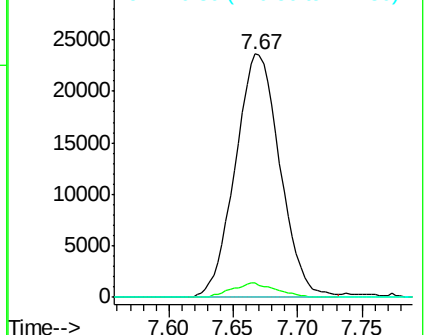
117 100

119 5.8 77.4 116.0#

121 0.0 23.9 35.9#



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: 2.77 ug/l

RT: 7.14 min Scan# 1725

Delta R.T. -0.04 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

Tgt Ion: 41 Resp: 95

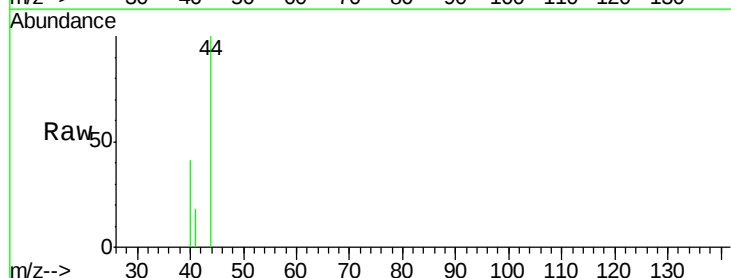
Ion Ratio Lower Upper

41 100

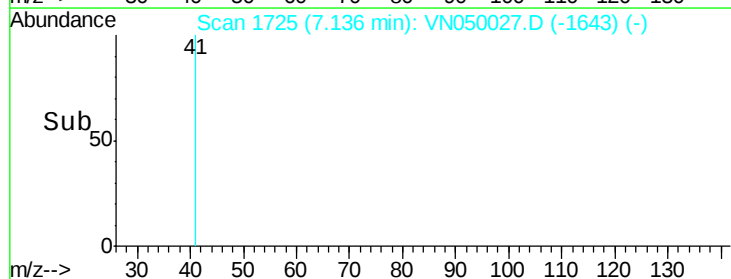
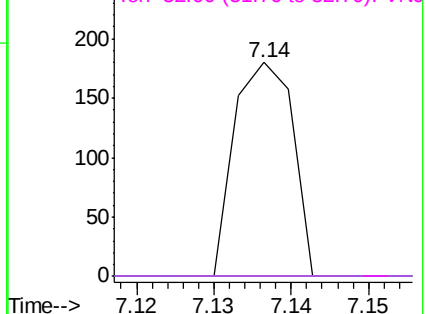
39 0.0 55.8 83.6#

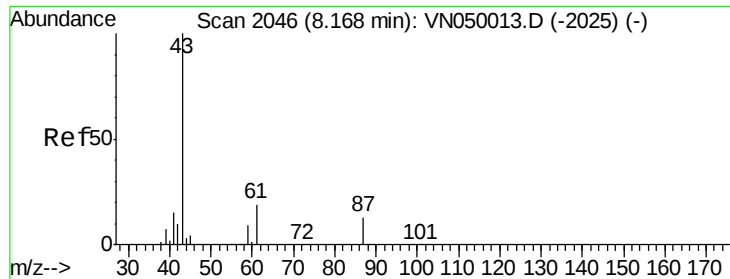
67 0.0 84.3 126.5#

52 0.0 34.2 51.2#



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: 0.24 ug/l

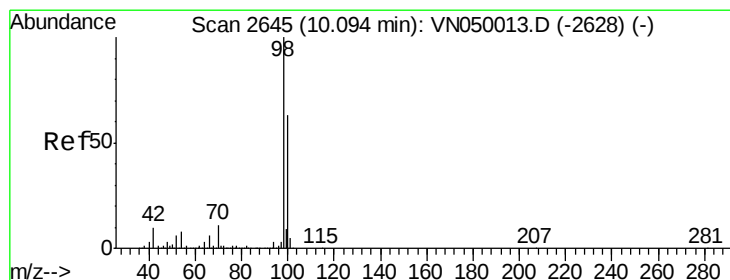
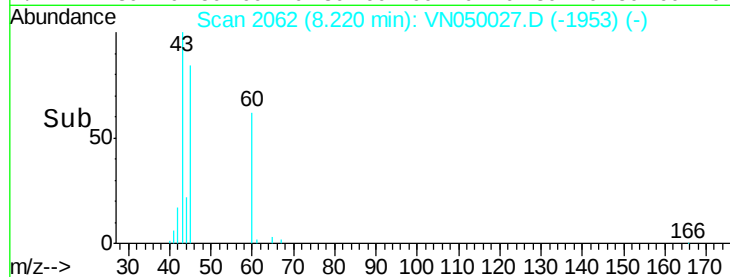
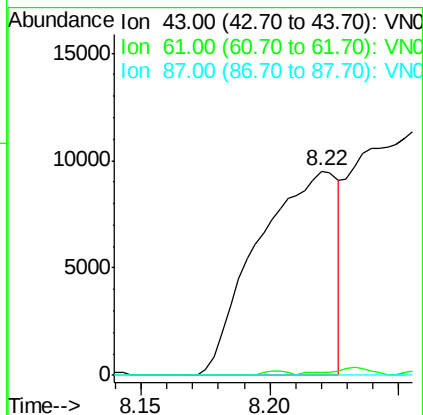
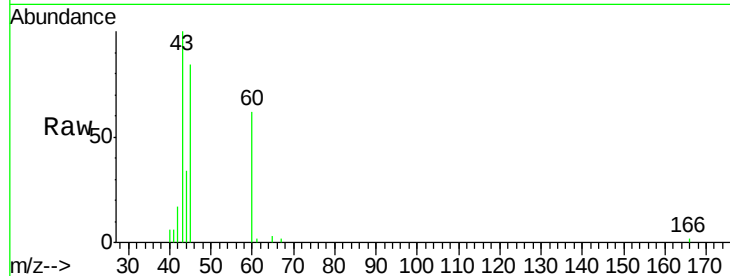
RT: 8.22 min Scan# 2062

Delta R.T. 0.05 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

Tot Ion:	43	Resp:	20501
Ion	Ratio	Lower	Upper
43	100		
61	1.6	15.8	23.6#
87	0.0	10.3	15.5#



#50

Toluene-d8

Concen: 45.59 ug/l

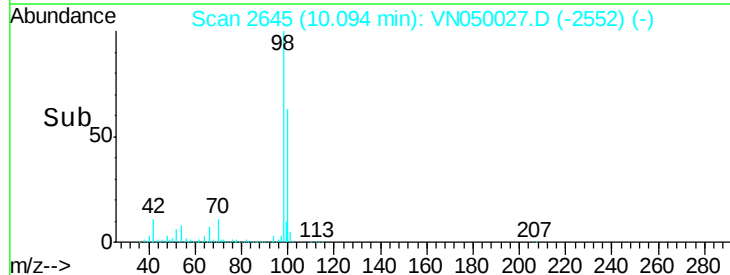
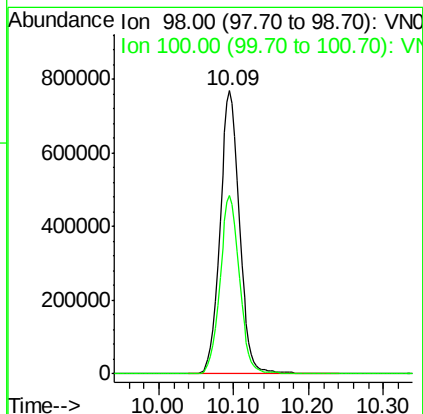
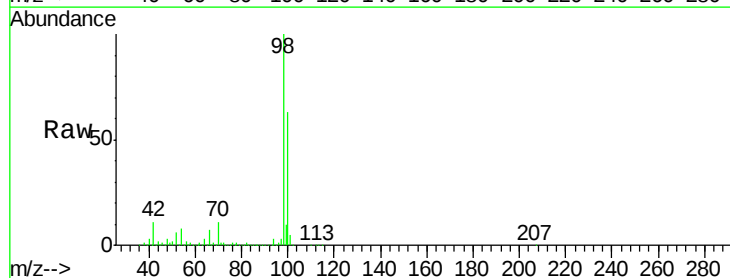
RT: 10.09 min Scan# 2645

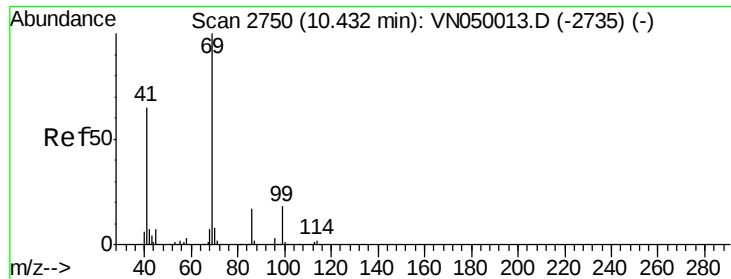
Delta R.T. 0.00 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

Tgt Ion:	98	Resp:	1380171
Ion	Ratio	Lower	Upper
98	100		
100	63.1	50.7	76.1





#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.15 min Scan# 2661

Delta R.T. -0.29 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

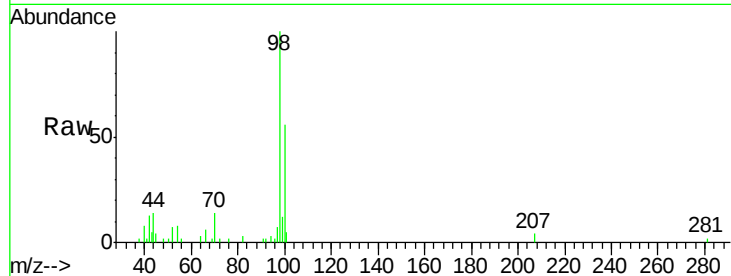
Tot Ion: 69 Resp: 65

Ion Ratio Lower Upper

69 100

41 90.8 51.0 76.4#

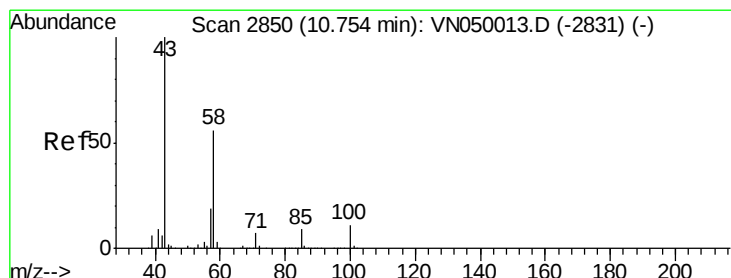
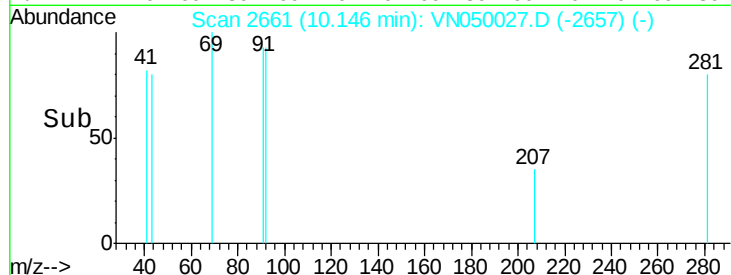
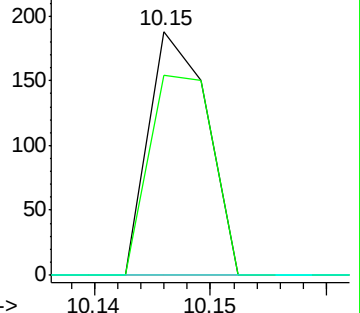
39 0.0 26.6 40.0#



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



#59

2-Hexanone

Concen: 5.23 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN050027.D

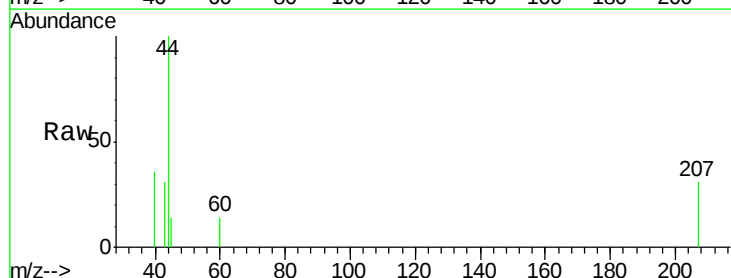
Acq: 24 Jul 2018 17:58

Tgt Ion: 43 Resp: 303

Ion Ratio Lower Upper

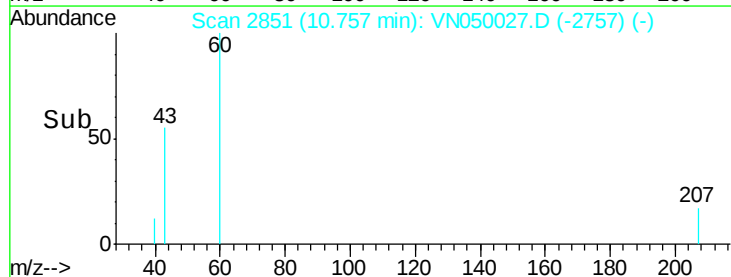
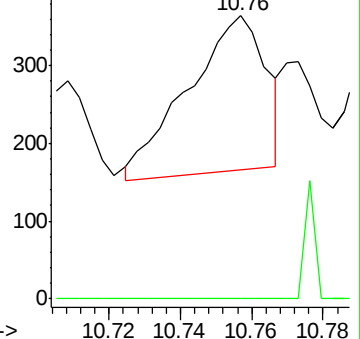
43 100

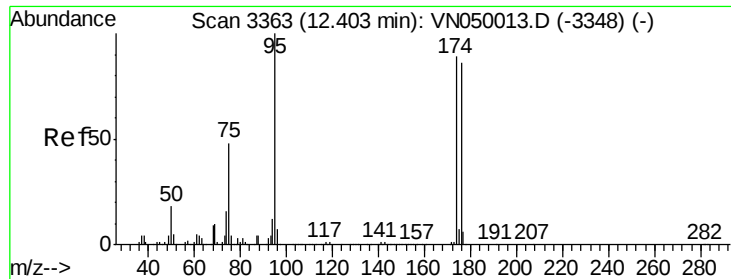
58 9.6 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.67 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

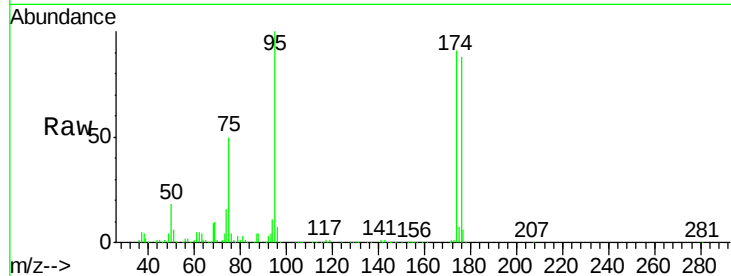
Tot Ion: 95 Resp: 365529

Ion Ratio Lower Upper

95 100

174 91.7 0.0 178.2

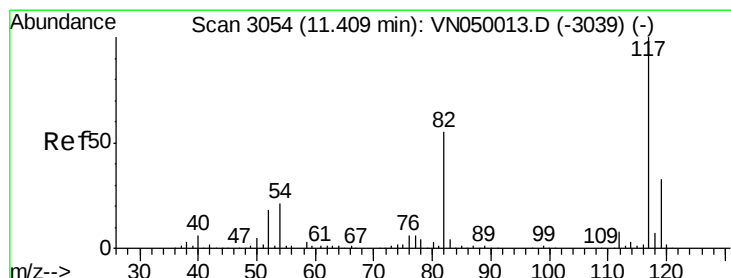
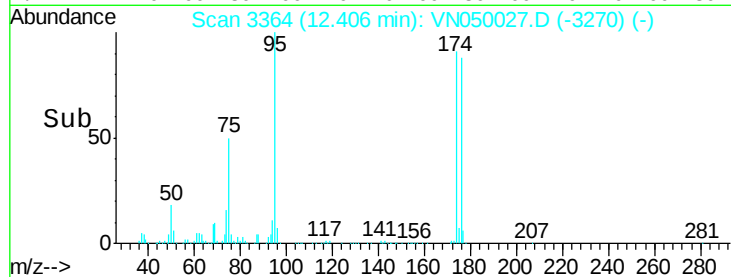
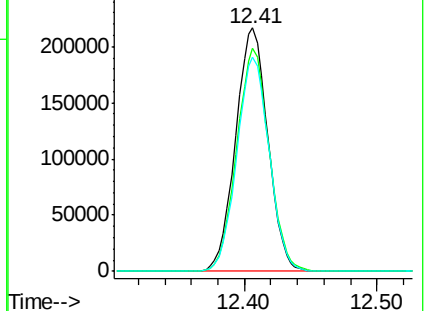
176 87.9 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050013.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050013.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050013.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

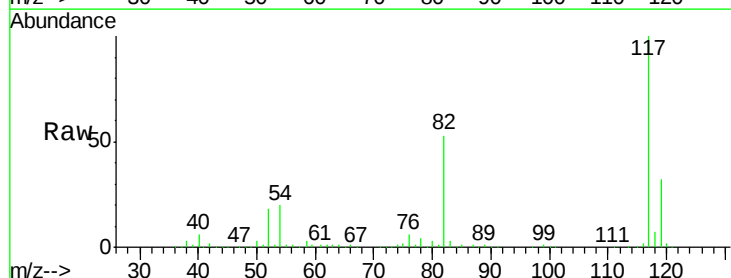
Tgt Ion: 117 Resp: 846844

Ion Ratio Lower Upper

117 100

82 53.2 43.7 65.5

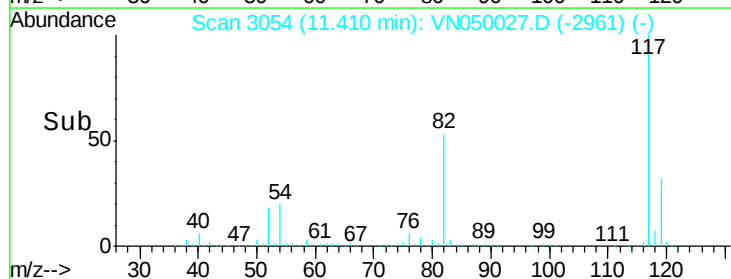
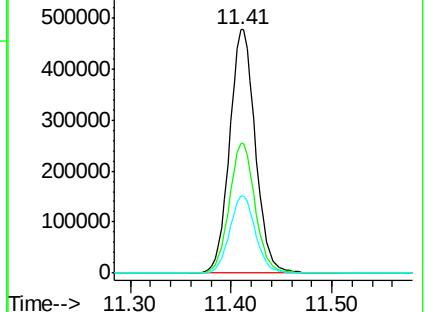
119 31.8 26.1 39.1

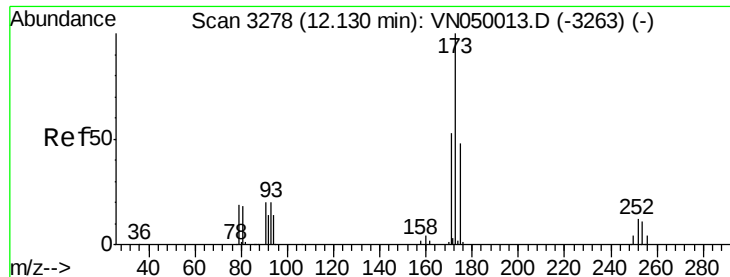


Abundance Ion 116.90 (116.60 to 117.60): VN050013.D (-3039) (-)

Ion 82.00 (81.70 to 82.70): VN050013.D (-3039) (-)

Ion 118.90 (118.60 to 119.60): VN050013.D (-3039) (-)





#71

Bromoform

Concen: 0.50 ug/l

RT: 12.40 min Scan# 3363

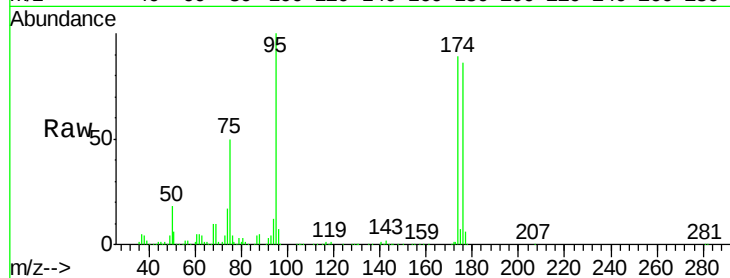
Delta R.T. 0.27 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

Tot Ion:173 Resp: 2998

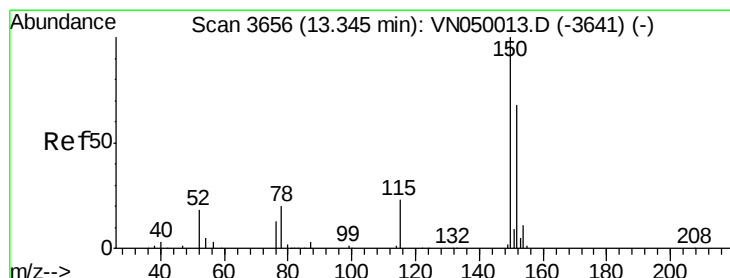
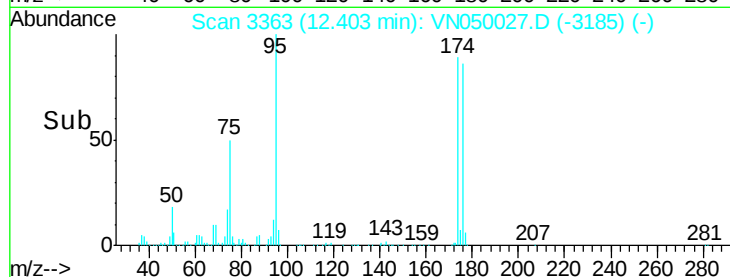
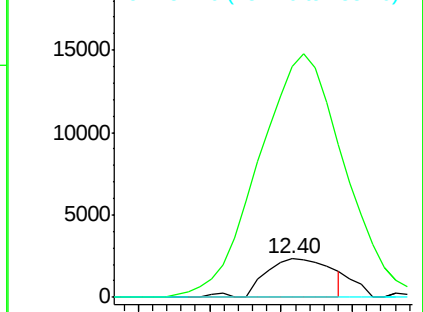
Ion	Ratio	Lower	Upper
173	100		
175	696.3	24.1	72.2#
254	0.0	0.2	0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3657

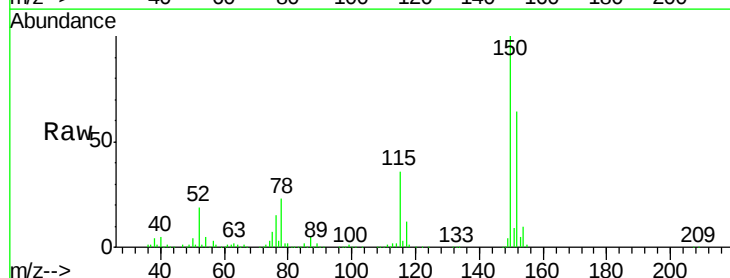
Delta R.T. 0.00 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

Tgt Ion:152 Resp: 302073

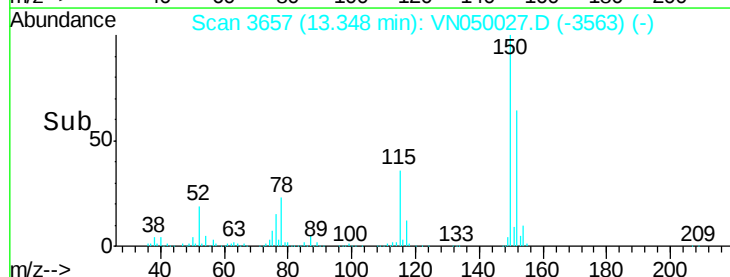
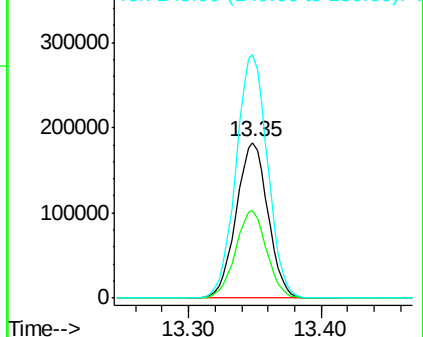
Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.8	83.3
150	156.0	0.0	348.6

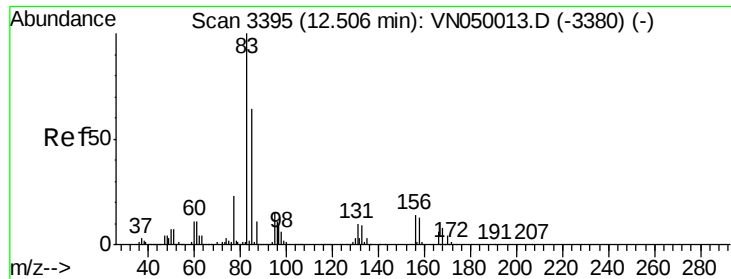


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN050027.D

Acq: 24 Jul 2018 17:58

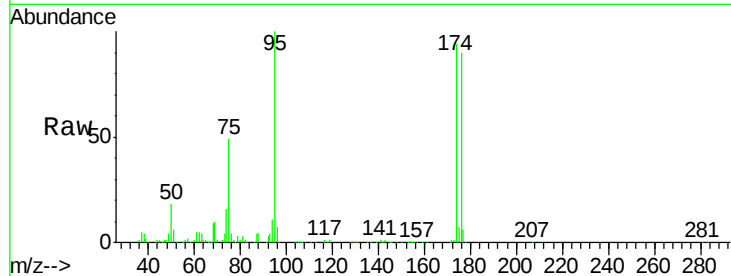
Tot Ion: 83 Resp: 311

Ion Ratio Lower Upper

83 100

131 141.5 5.1 15.3#

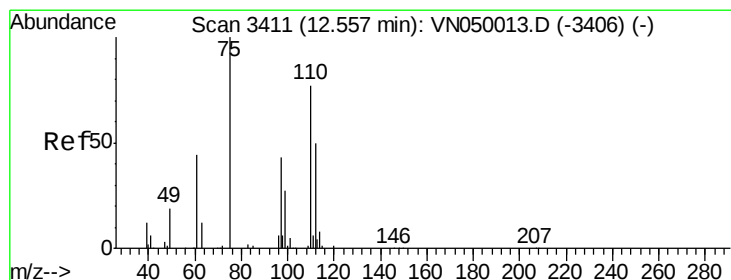
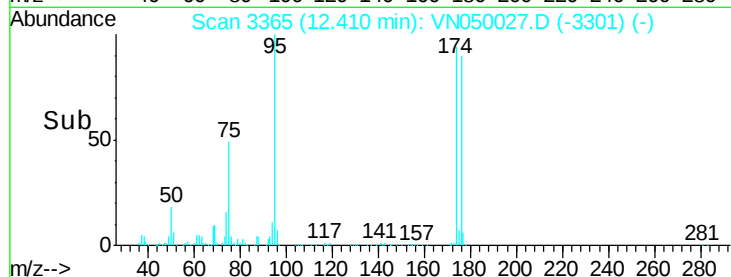
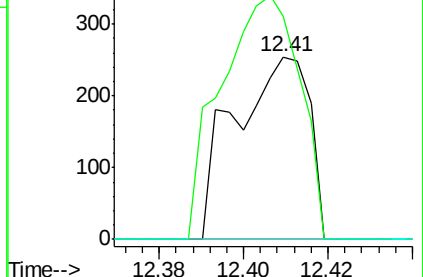
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 31.87 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN050027.D

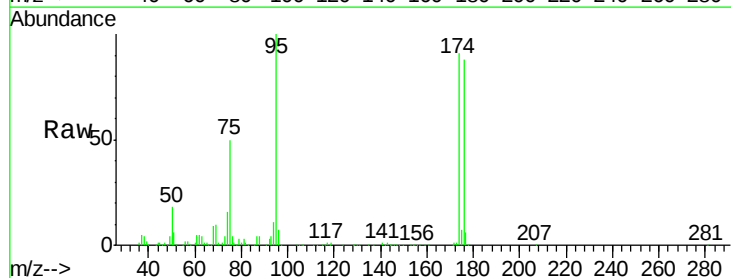
Acq: 24 Jul 2018 17:58

Tgt Ion: 75 Resp: 178921

Ion Ratio Lower Upper

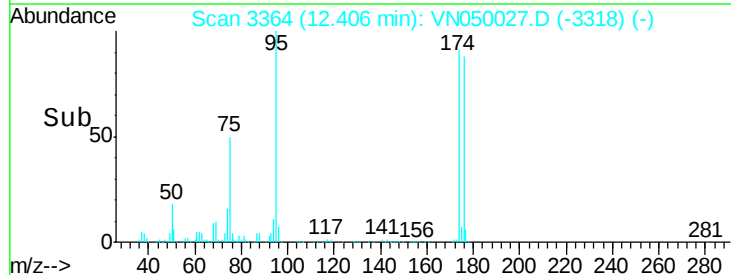
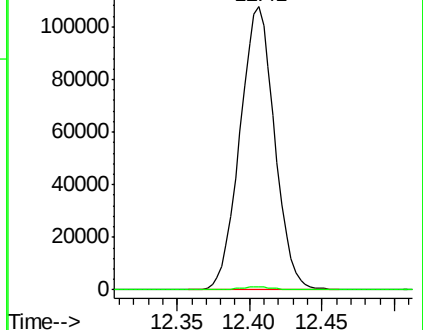
75 100

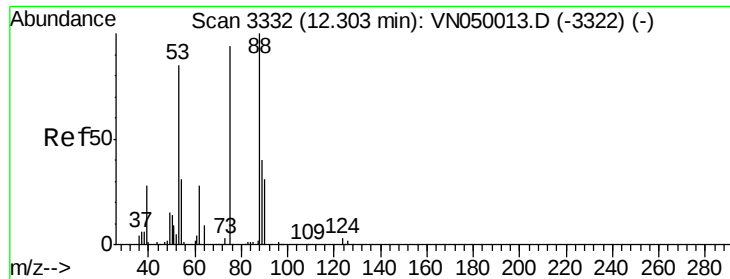
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

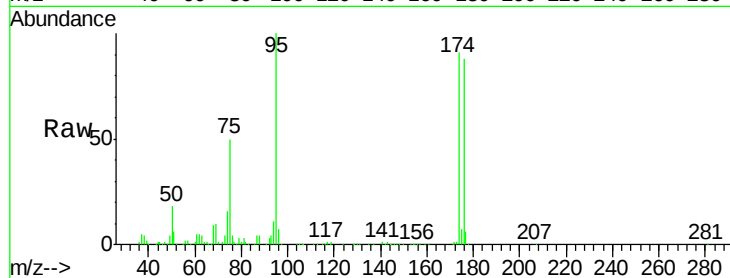
Ion 77.00 (76.70 to 77.70): VNO



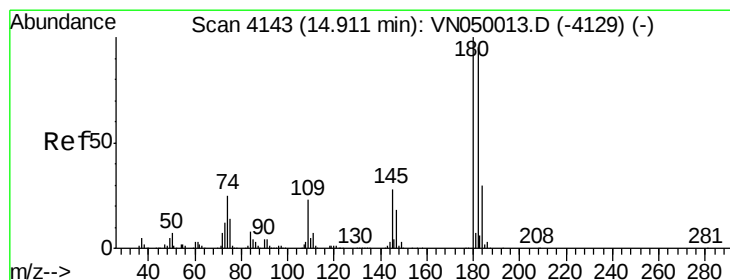
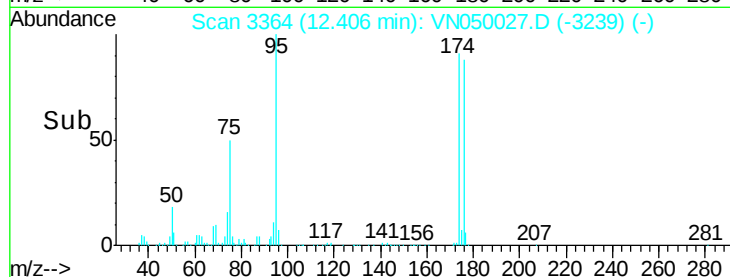
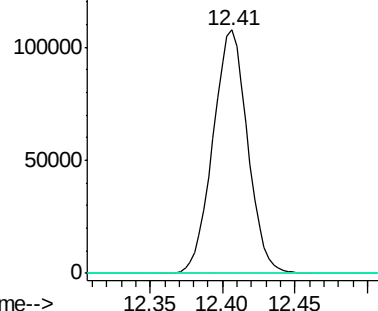


#81
trans-1,4-Dichloro-2-butene
Concen: 101.09 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.10 min
Lab File: VN050027.D
Acq: 24 Jul 2018 17:58

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.1	73.5	110.3#
89	0.0	36.0	54.0#

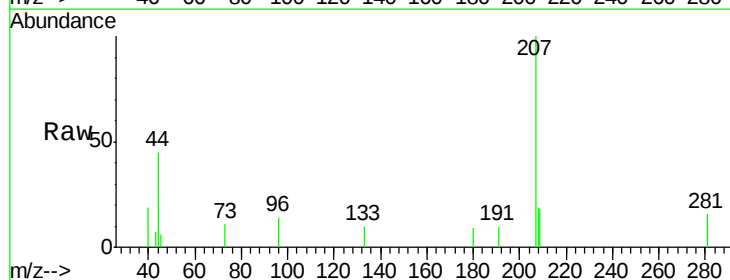


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

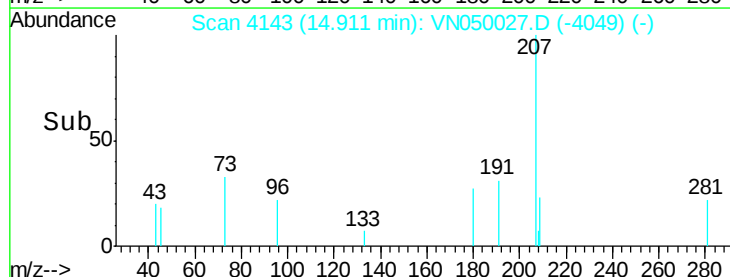
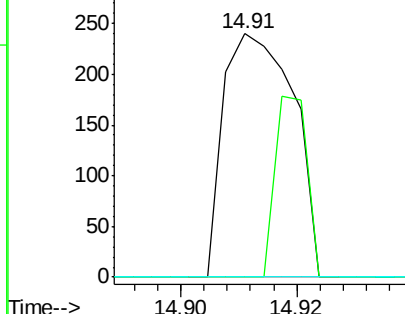


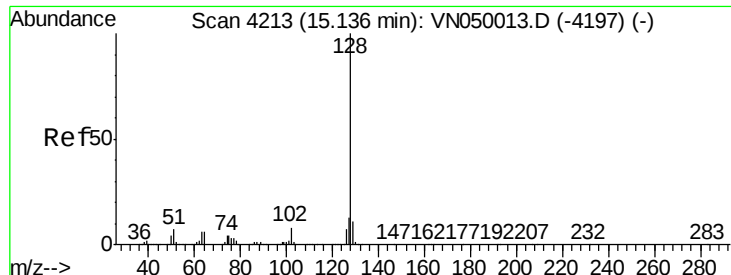
#93
1,2,4-Trichlorobenzene
Concen: 3.12 ug/l
RT: 14.91 min Scan# 4143
Delta R.T. 0.00 min
Lab File: VN050027.D
Acq: 24 Jul 2018 17:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	33.8	46.7	140.1#
145	0.0	13.8	41.4#



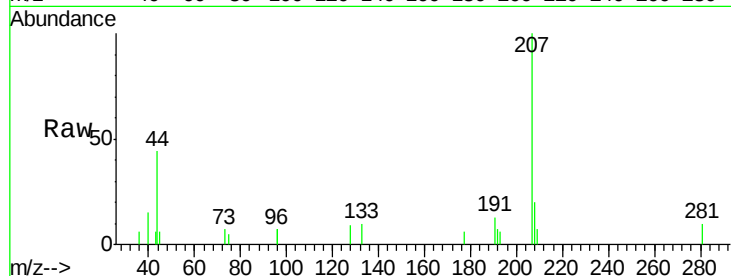
Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



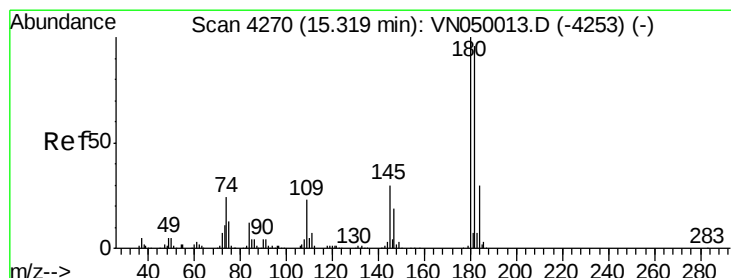
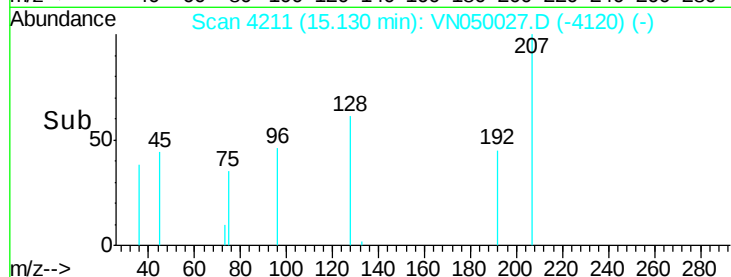
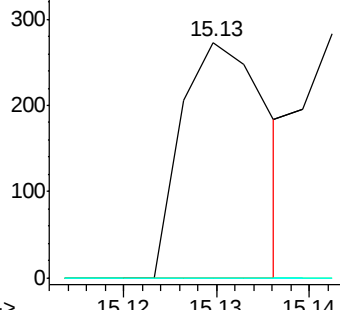


#95
Naphthalene
Concen: 4.43 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VN050027.D
Acq: 24 Jul 2018 17:58

Tot Ion:128 Resp: 176
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.8 13.2#

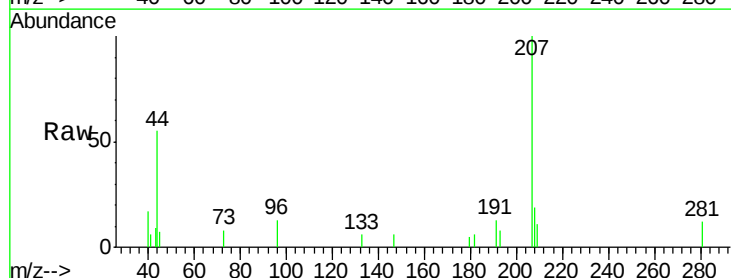


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.21 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050027.D
Acq: 24 Jul 2018 17:58

Tgt Ion:180 Resp: 32
Ion Ratio Lower Upper
180 100
182 287.5 48.1 144.4#
145 0.0 15.3 45.9#



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

