

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050226.D
 Acq On : 31 Jul 2018 19:51
 Operator : MD\SY
 Sample : J3823-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 NB-08-073018-B

Quant Time: Aug 01 03:58:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	651122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1076388	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	892302	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	325595	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	453457	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
35) Dibromofluoromethane	7.59	113	406844	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
50) Toluene-d8	10.09	98	1450531	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	
62) 4-Bromofluorobenzene	12.40	95	393563	36.99	ug/l	0.00
Spiked Amount			Recovery	=	73.98%	

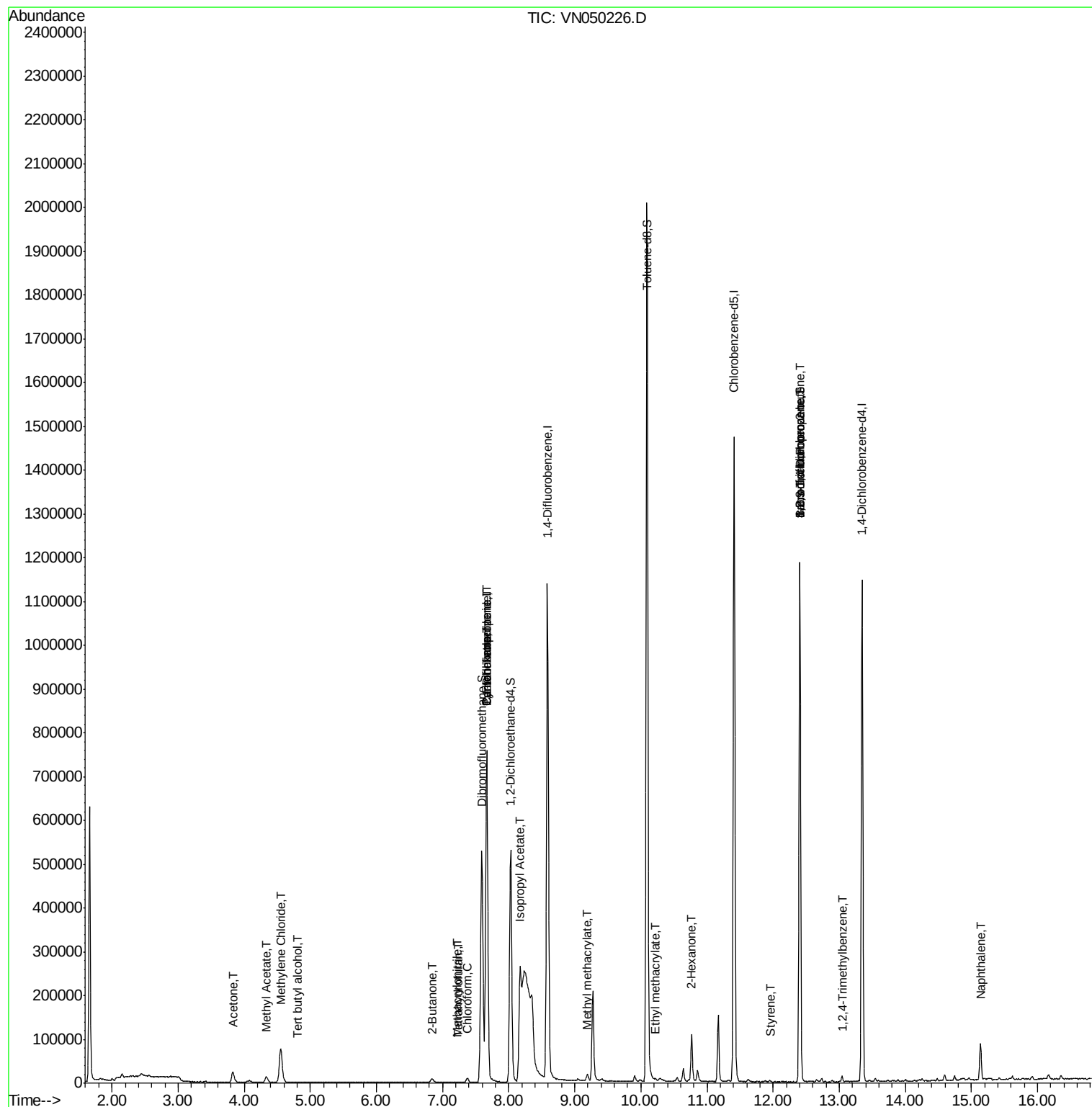
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	58	Below Cal	#	3
11) Tert butyl alcohol	4.81	59	417	0.62	ug/l	72
16) Acetone	3.83	43	40594	14.89	ug/l	97
18) Methyl Acetate	4.33	43	25806	1.52	ug/l	93
20) Methylene Chloride	4.55	84	60879	6.47	ug/l	98
25) 2-Butanone	6.84	43	2559	0.74	ug/l	84
29) Tetrahydrofuran	7.23	42	1203	0.54	ug/l	47
30) Chloroform	7.37	83	10294	0.67	ug/l	92
31) Cyclohexane	7.67	56	12849	0.96	ug/l	1
36) 1,1-Dichloropropene	7.67	75	45886	3.78	ug/l	48
38) Carbon Tetrachloride	7.67	117	58887	4.58	ug/l	17
41) Methacrylonitrile	7.21	41	190	2.79	ug/l	35
43) Isopropyl Acetate	8.17	43	316107	19.14	ug/l	91
48) Methyl methacrylate	9.19	41	8107	1.11	ug/l	21
56) Ethyl methacrylate	10.23	69	2625	2.25	ug/l	56
59) 2-Hexanone	10.77	43	16071	7.75	ug/l	53
70) Styrene	11.97	104	343	0.94	ug/l	38
71) Bromoform	12.40	173	3669	0.58	ug/l	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	157	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	190567	31.49	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190567	99.89	ug/l	13
84) 1,2,4-Trimethylbenzene	13.04	105	7712	0.39	ug/l	98
95) Naphthalene	15.14	128	72623	8.87	ug/l	99

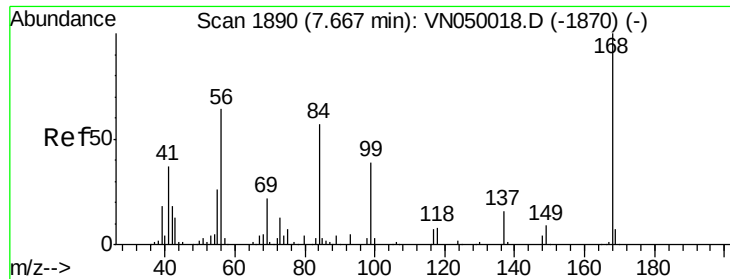
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

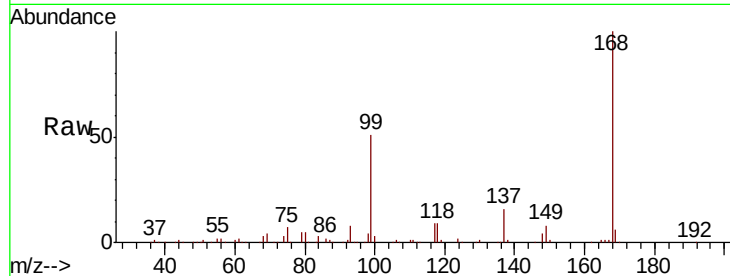
NB-08-073018-B

Tot Ion:168 Resp: 651122

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050018.D (-1870) (-)

7.67

250000

200000

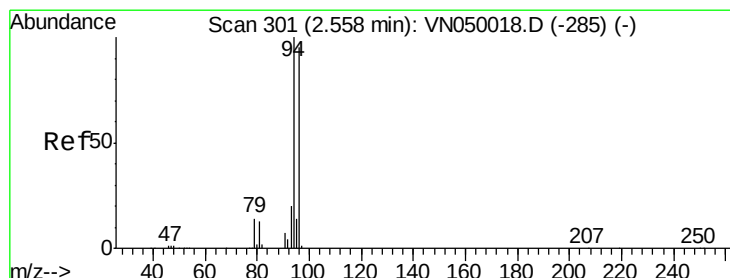
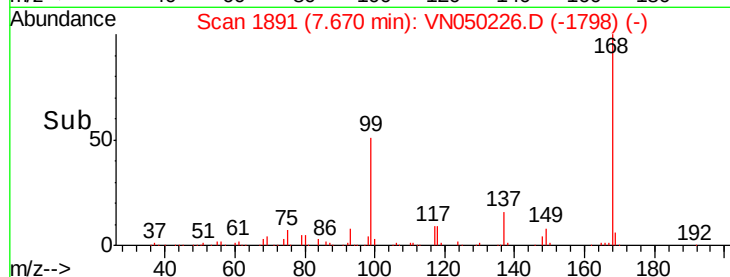
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 297

Delta R.T. -0.01 min

Lab File: VN050226.D

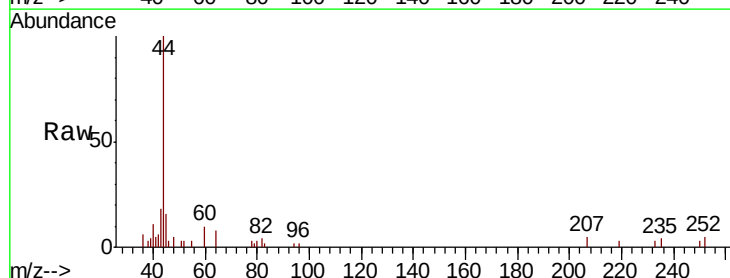
Acq: 31 Jul 2018 19:51

Tgt Ion: 94 Resp: 58

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050018.D (-285) (-)

Ion 95.90 (95.60 to 96.60): VN050018.D (-285) (-)

2.55

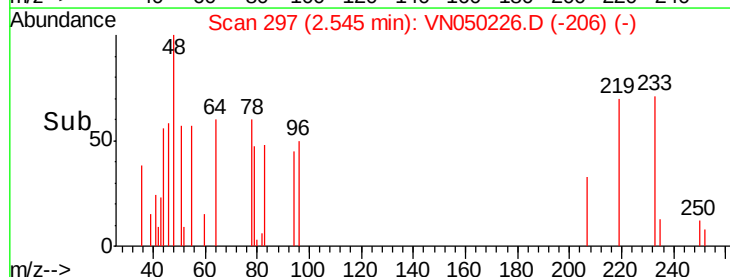
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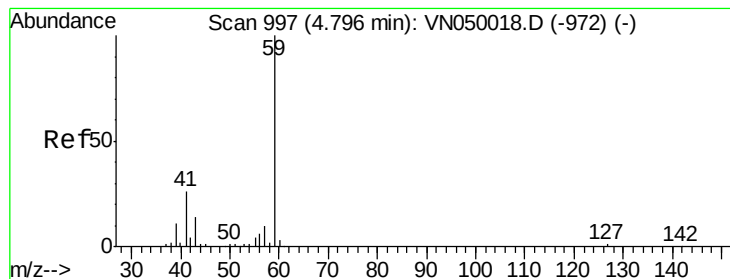
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 0.62 ug/l

RT: 4.81 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

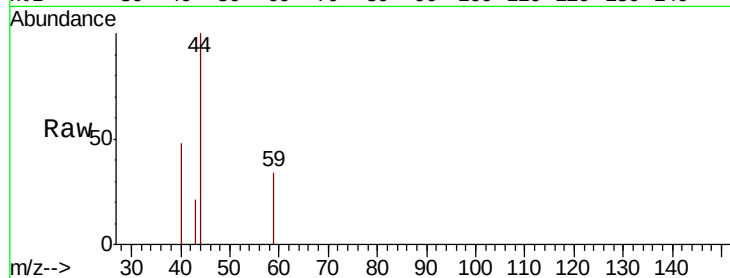
NB-08-073018-B

Tot Ion: 59 Resp: 417

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.81

400

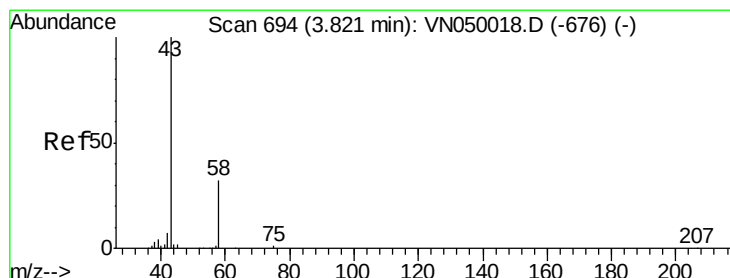
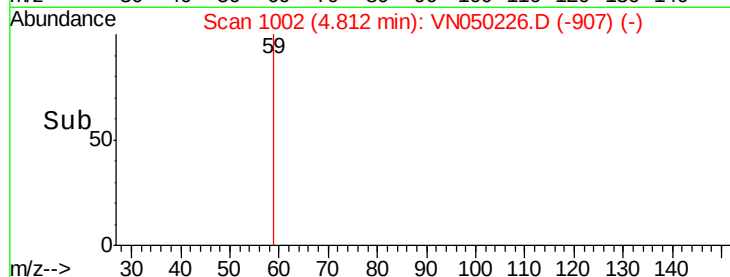
300

200

100

0

Time-->



#16

Acetone

Concen: 14.89 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050226.D

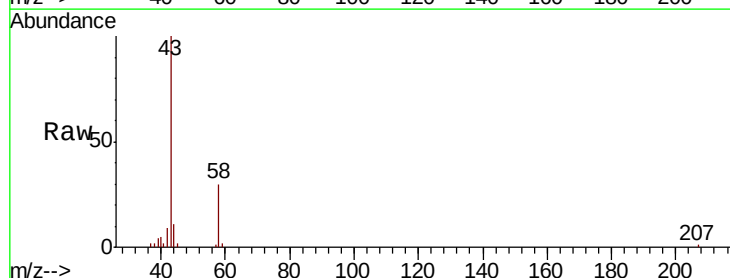
Acq: 31 Jul 2018 19:51

Tgt Ion: 43 Resp: 40594

Ion Ratio Lower Upper

43 100

58 30.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

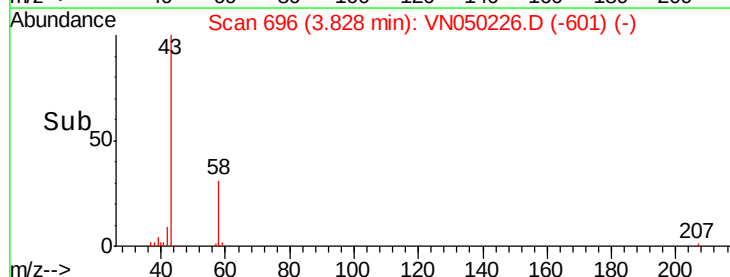
15000

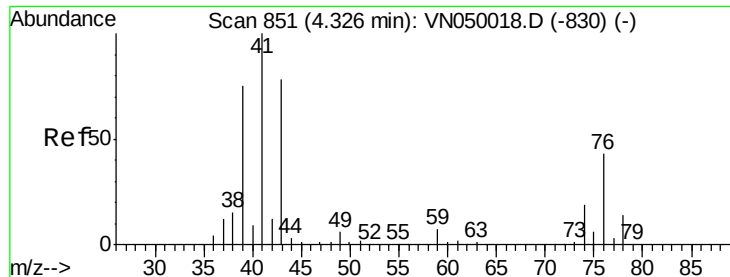
10000

5000

0

Time-->

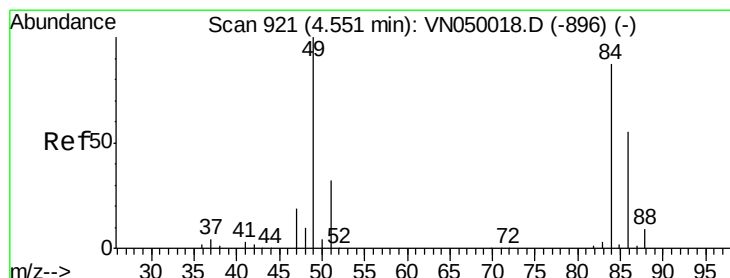
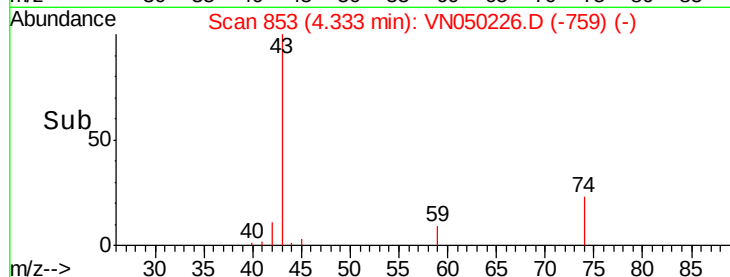
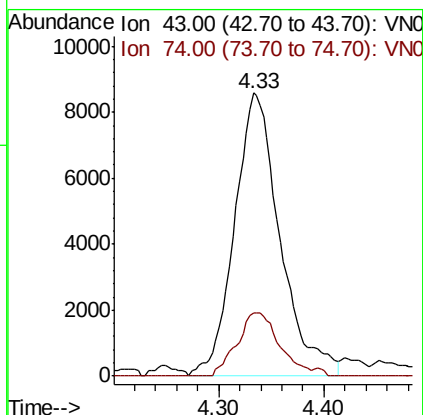
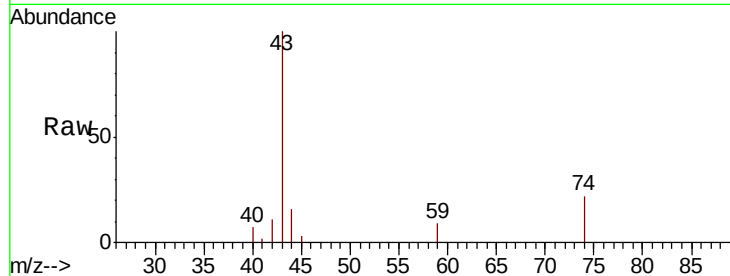




#18
Methyl Acetate
Concen: 1.52 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

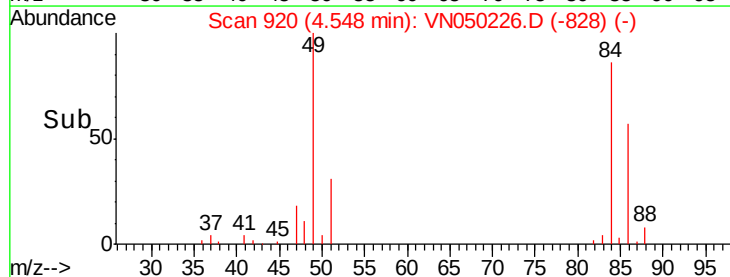
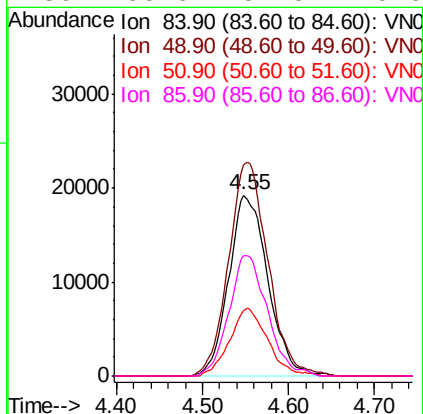
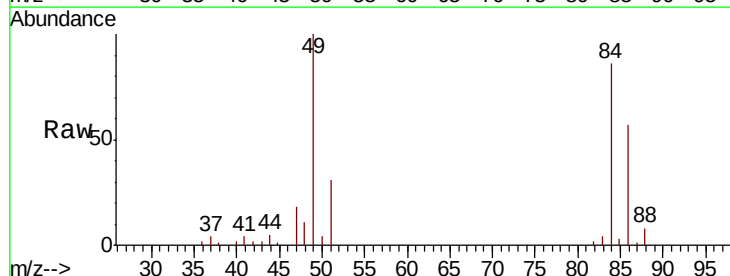
Instrument :
MSVOA_N
ClientSampleId :
NB-08-073018-B

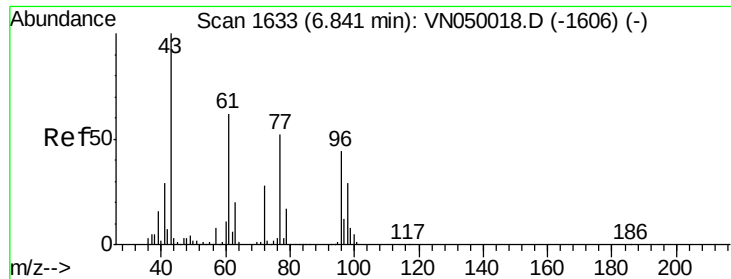
Tot Ion: 43 Resp: 25806
Ion Ratio Lower Upper
43 100
74 20.7 19.2 28.8



#20
Methylene Chloride
Concen: 6.47 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

Tgt Ion: 84 Resp: 60879
Ion Ratio Lower Upper
84 100
49 116.7 94.8 142.2
51 36.5 28.3 42.5
86 66.6 51.0 76.6

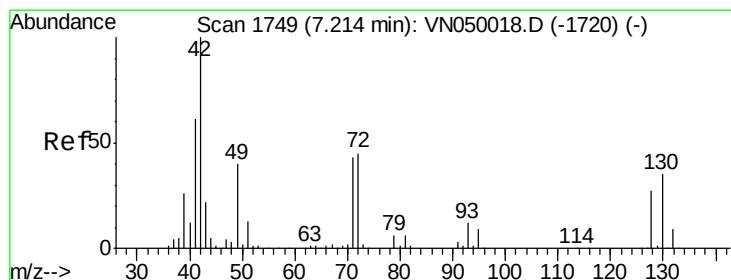
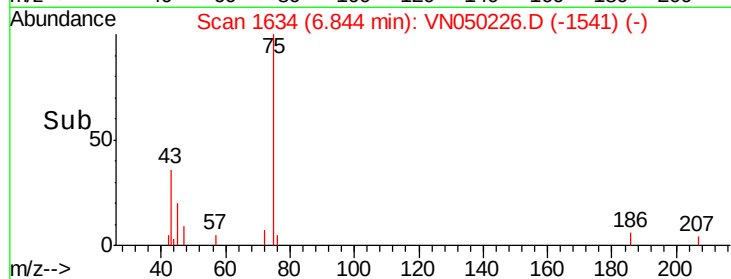
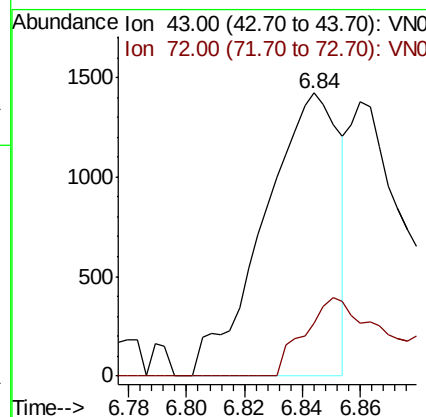
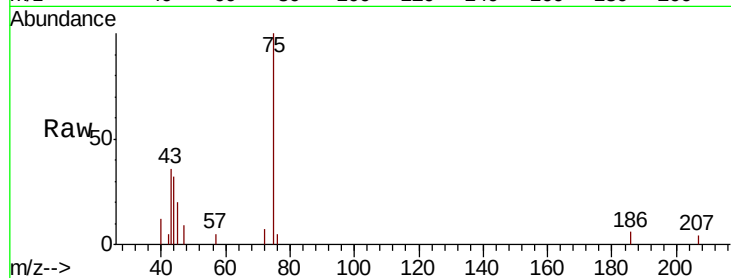




#25
 2-Butanone
 Concen: 0.74 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: VN050226.D
 Acq: 31 Jul 2018 19:51

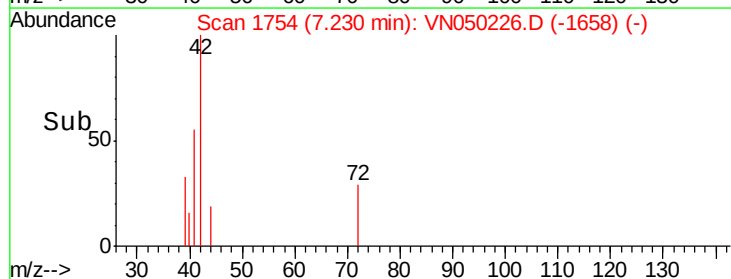
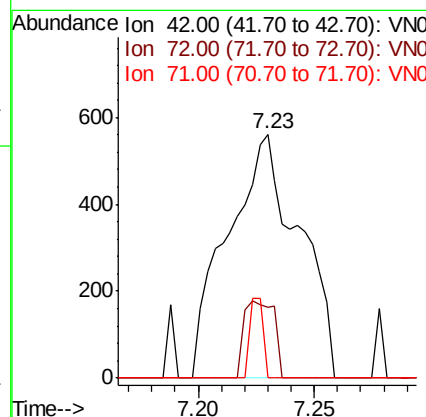
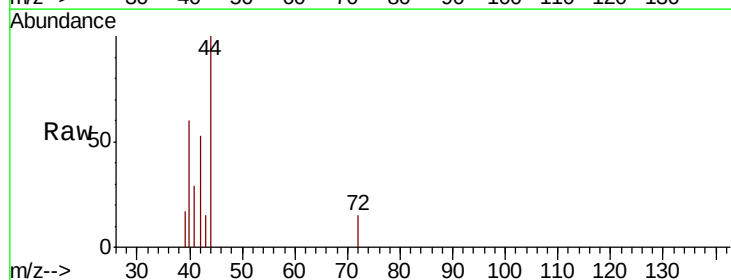
Instrument :
 MSVOA_N
 ClientSampleId :
 NB-08-073018-B

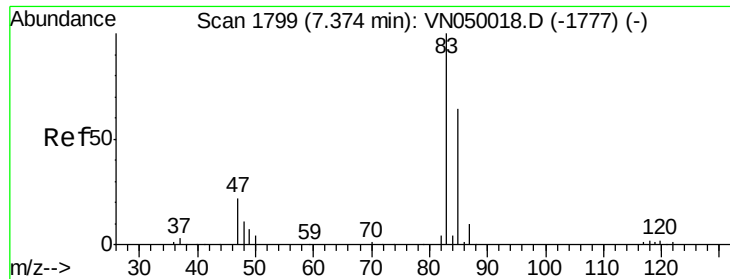
Tot Ion: 43 Resp: 2559
 Ion Ratio Lower Upper
 43 100
 72 18.6 21.5 32.3#



#29
 Tetrahydrofuran
 Concen: 0.54 ug/l
 RT: 7.23 min Scan# 1754
 Delta R.T. 0.01 min
 Lab File: VN050226.D
 Acq: 31 Jul 2018 19:51

Tgt Ion: 42 Resp: 1203
 Ion Ratio Lower Upper
 42 100
 72 13.3 35.9 53.9#
 71 5.9 33.7 50.5#

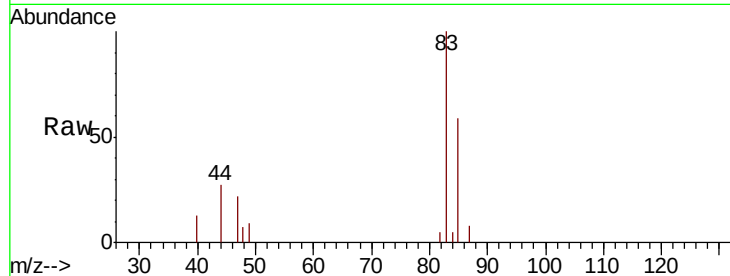




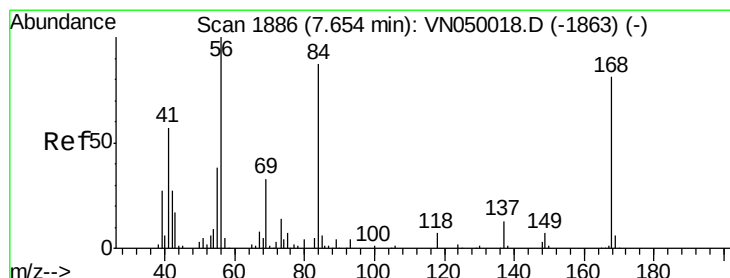
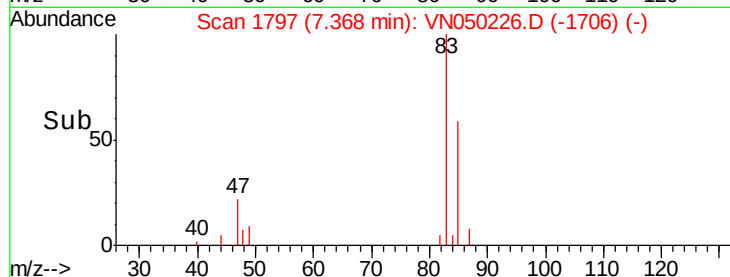
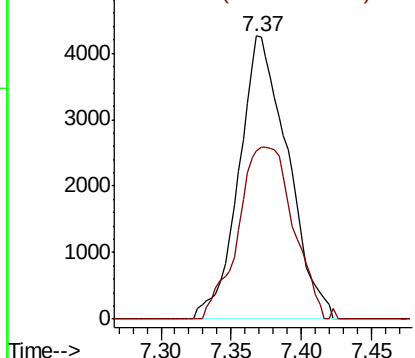
#30
Chloroform
Concen: 0.67 ug/l
RT: 7.37 min Scan# 1797
Delta R.T. -0.01 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

Instrument :
MSVOA_N
ClientSampleId :
NB-08-073018-B

Tot Ion: 83 Resp: 10294
Ion Ratio Lower Upper
83 100
85 59.3 52.5 78.7

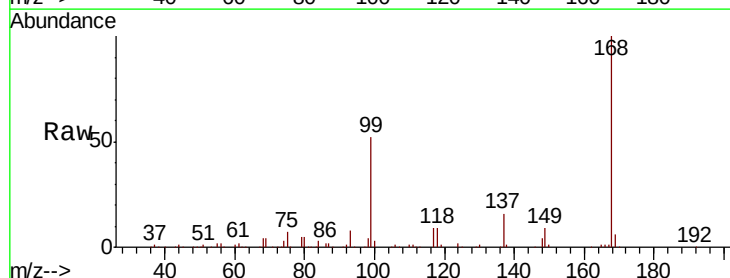


Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0

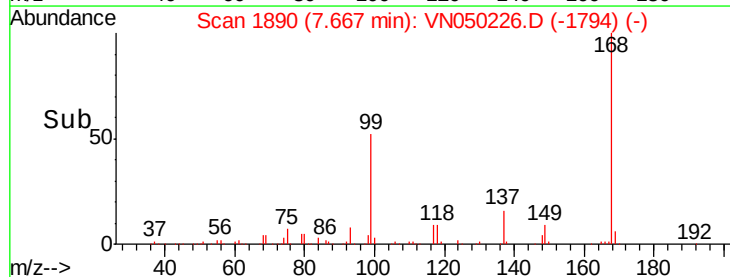
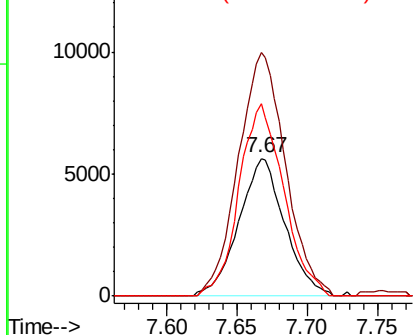


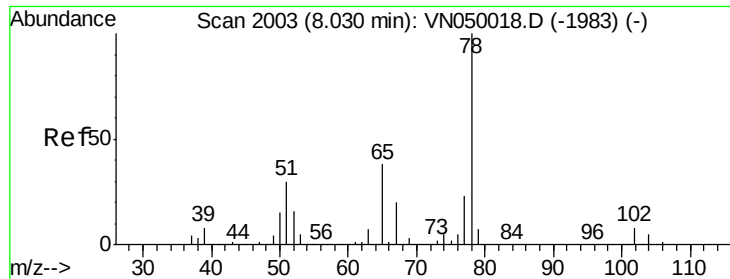
#31
Cyclohexane
Concen: 0.96 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

Tgt Ion: 56 Resp: 12849
Ion Ratio Lower Upper
56 100
69 176.6 26.2 39.4#
84 139.2 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 49.91 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

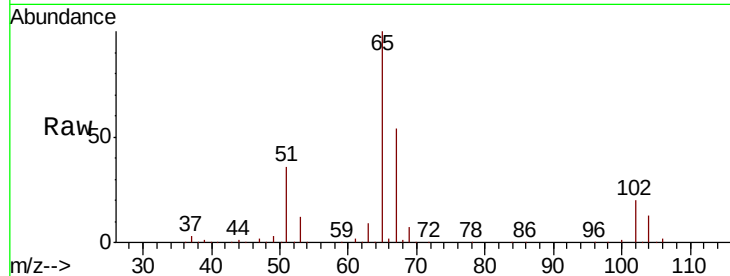
NB-08-073018-B

Tot Ion: 65 Resp: 453457

Ion Ratio Lower Upper

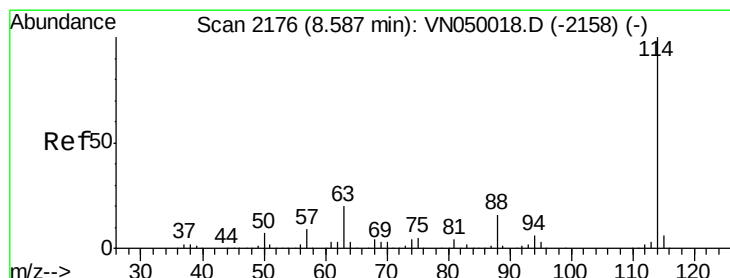
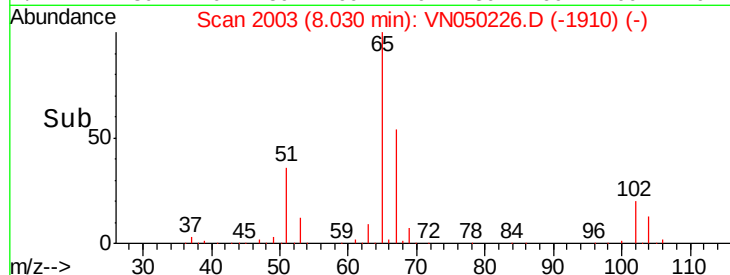
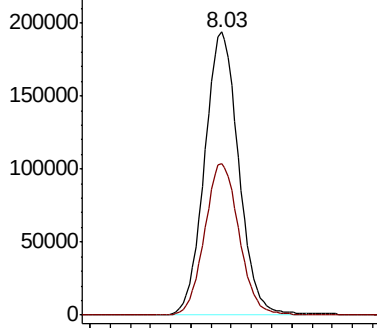
65 100

67 54.0 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: VN050226.D

Acq: 31 Jul 2018 19:51

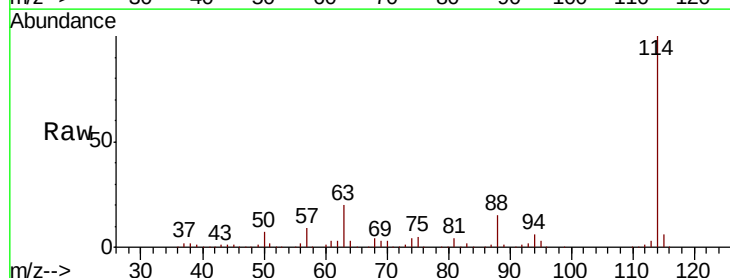
Tgt Ion: 114 Resp: 1076388

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

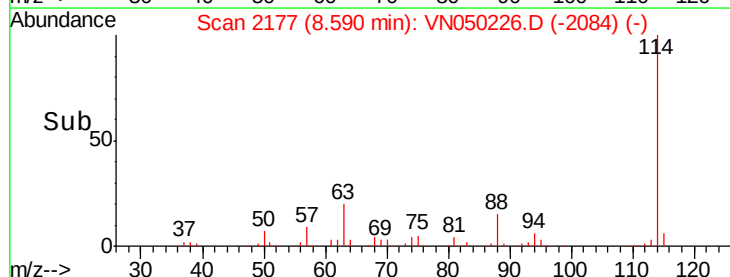
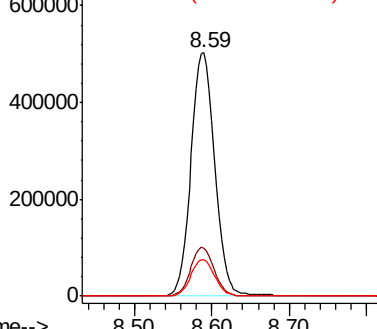
88 15.0 0.0 31.2

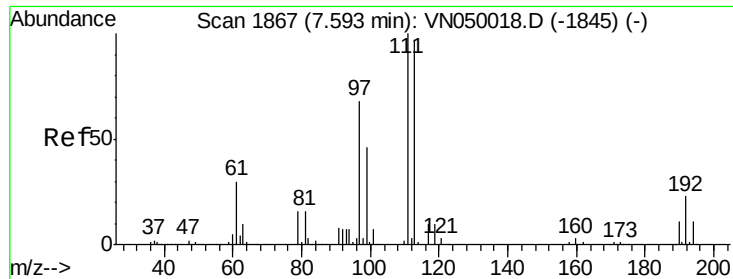


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

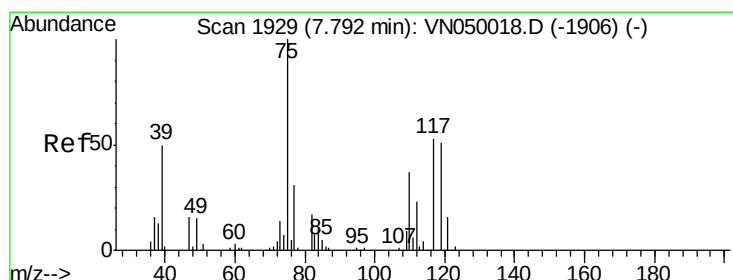
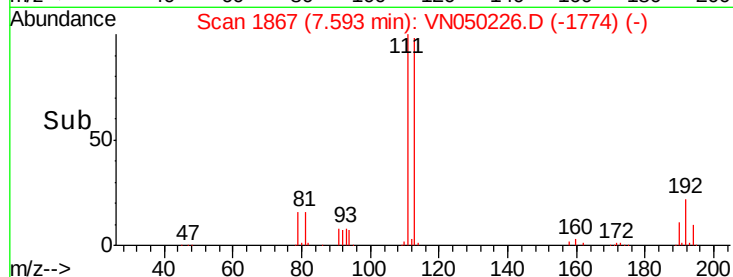
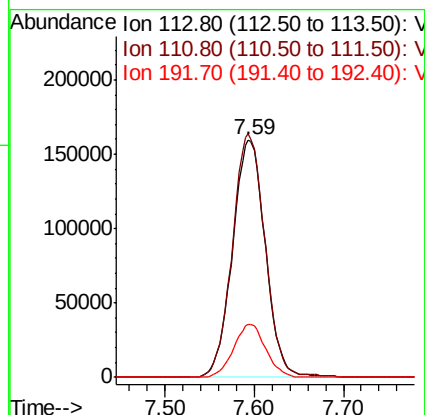
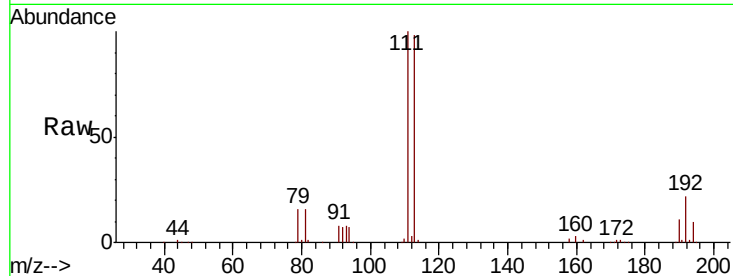




#35
 Dibromofluoromethane
 Concen: 46.29 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050226.D
 Acq: 31 Jul 2018 19:51

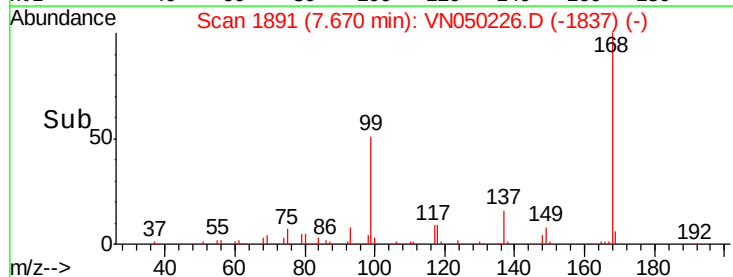
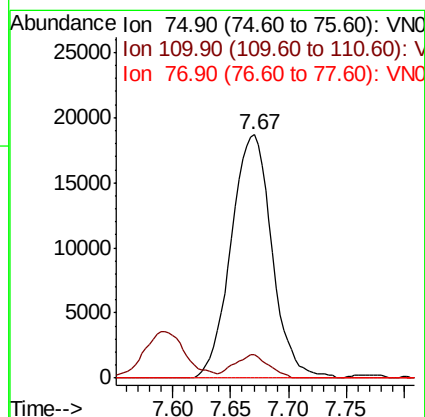
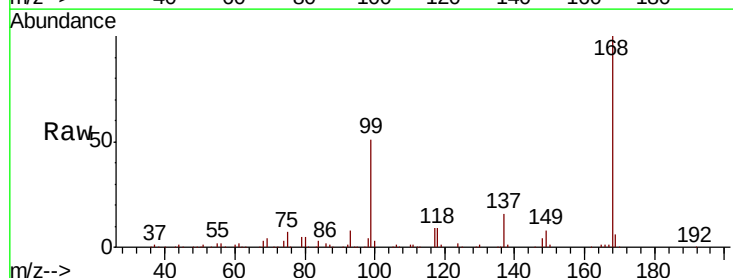
Instrument :
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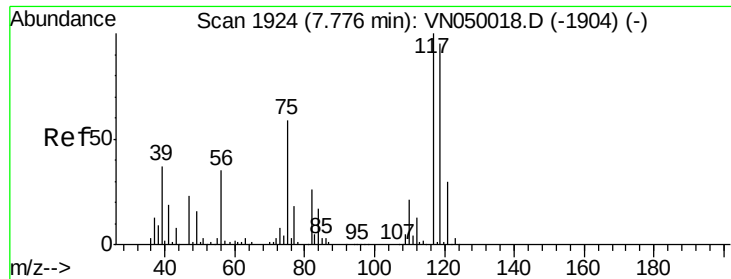
Tot Ion:113 Resp: 406844
 Ion Ratio Lower Upper
 113 100
 111 101.5 80.7 121.1
 192 22.0 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050226.D
 Acq: 31 Jul 2018 19:51

Tgt Ion: 75 Resp: 45886
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.58 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

NB-08-073018-B

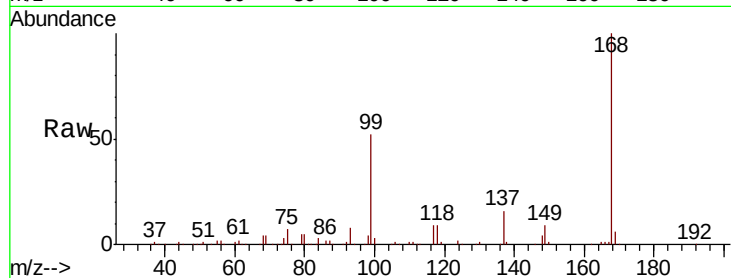
Tot Ion:117 Resp: 58887

Ion Ratio Lower Upper

117 100

119 6.4 77.4 116.0#

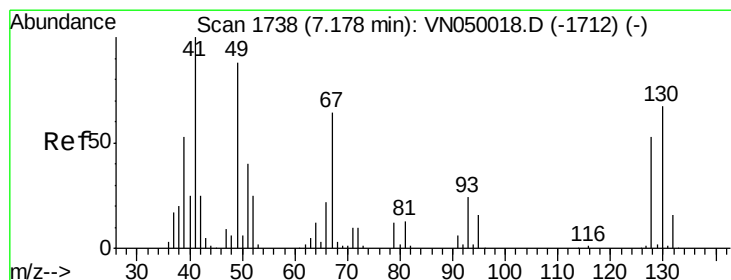
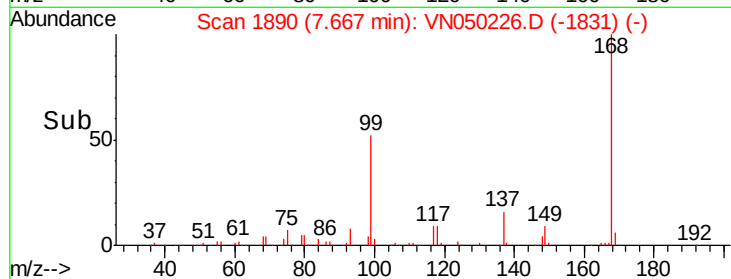
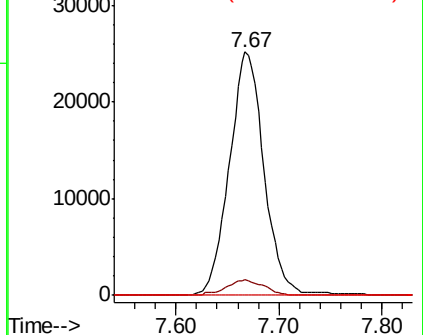
121 0.0 23.9 35.9#



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: 2.79 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. 0.04 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Tgt Ion: 41 Resp: 190

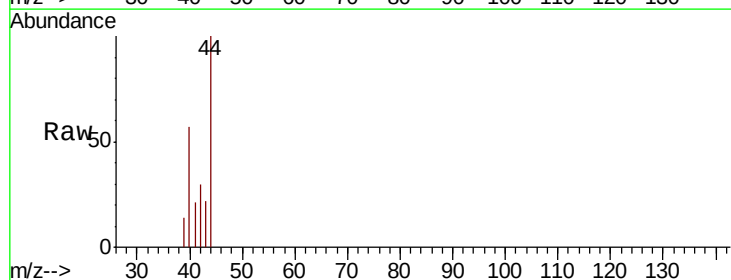
Ion Ratio Lower Upper

41 100

39 64.7 55.8 83.6

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#

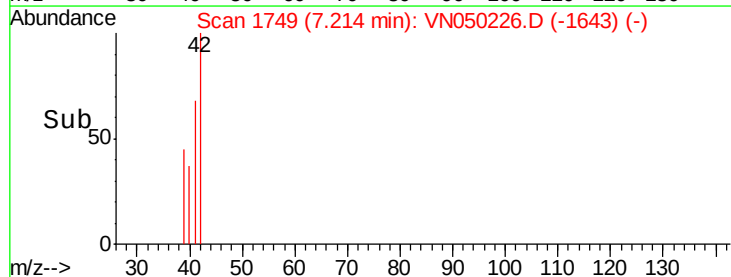
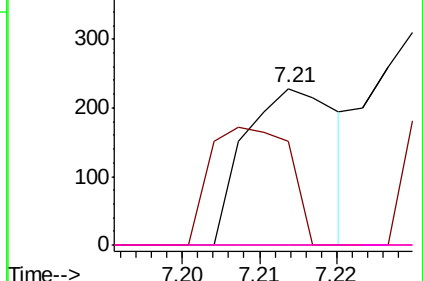


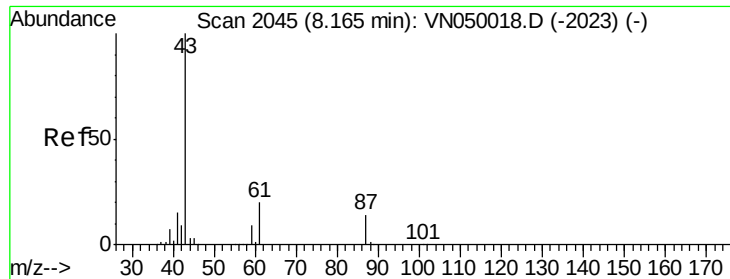
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 19.14 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

NB-08-073018-B

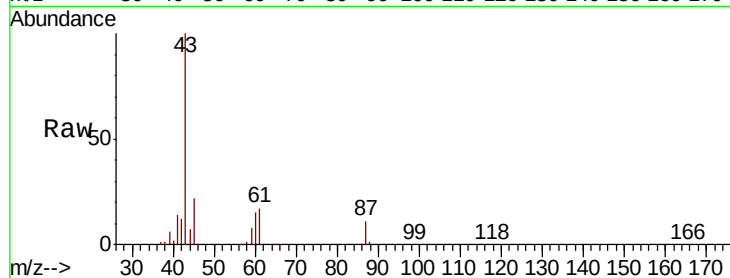
Tot Ion: 43 Resp: 316107

Ion Ratio Lower Upper

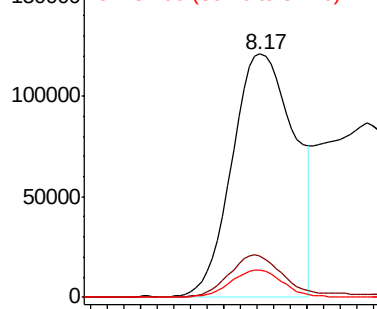
43 100

61 15.1 15.8 23.6#

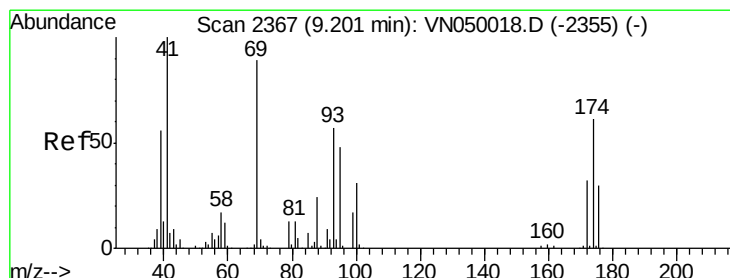
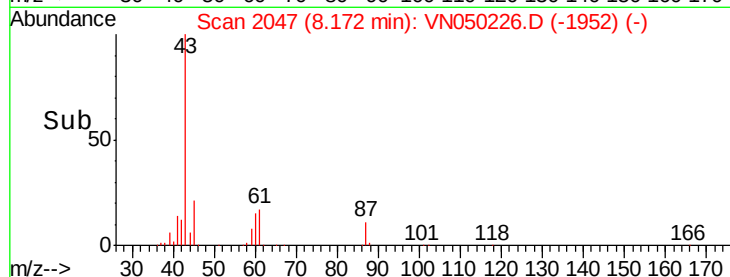
87 9.6 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



Time-->



#48

Methyl methacrylate

Concen: 1.11 ug/l

RT: 9.19 min Scan# 2363

Delta R.T. -0.02 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

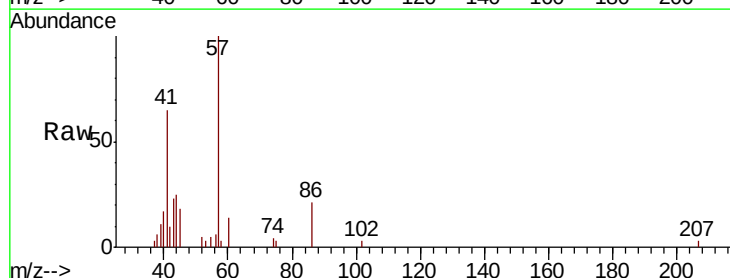
Tgt Ion: 41 Resp: 8107

Ion Ratio Lower Upper

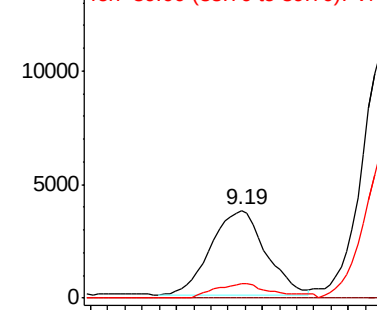
41 100

69 0.0 70.6 105.8#

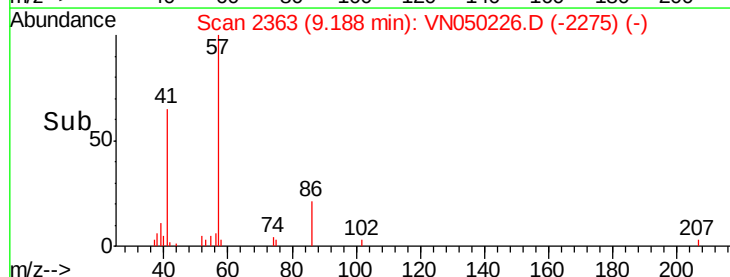
39 16.8 43.9 65.9#

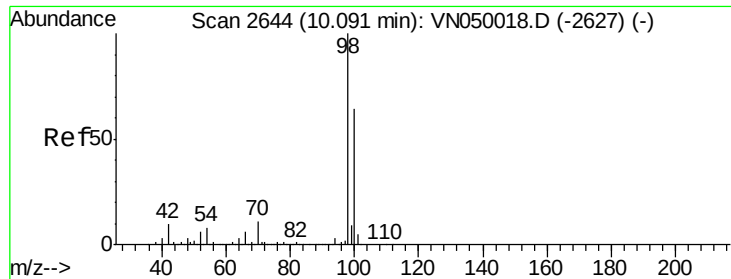


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



Time-->

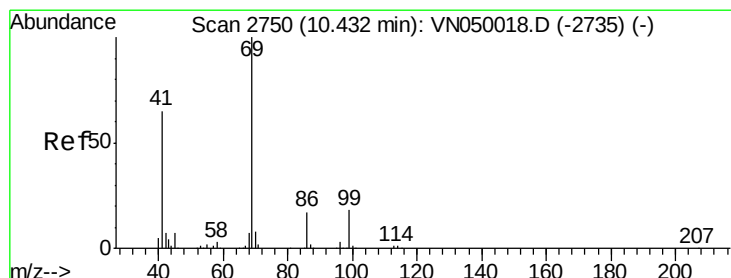
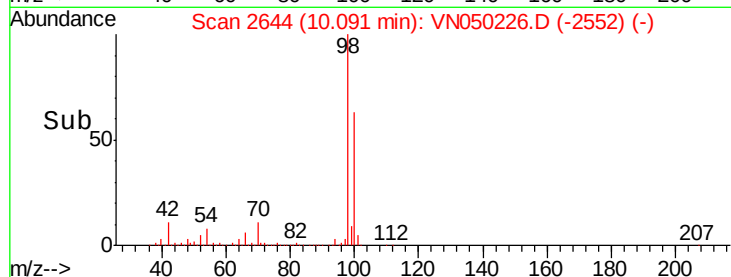
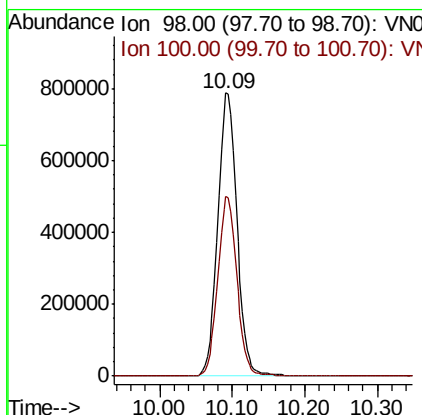
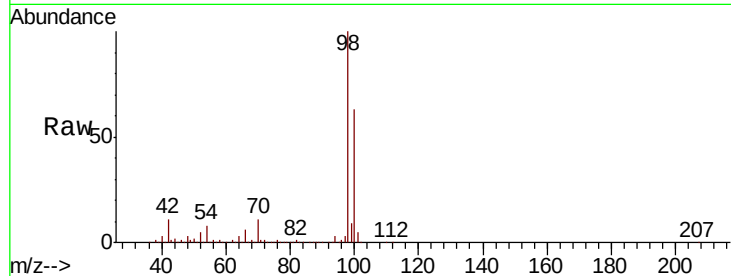




#50
Toluene-d8
Concen: 44.89 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

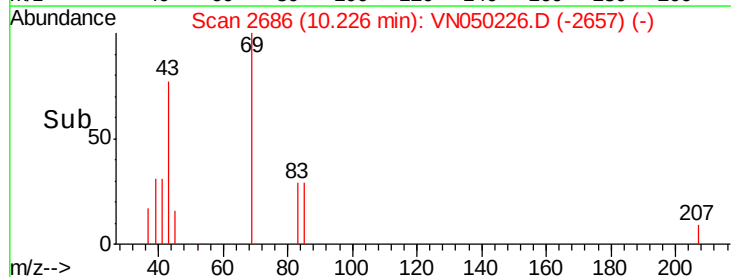
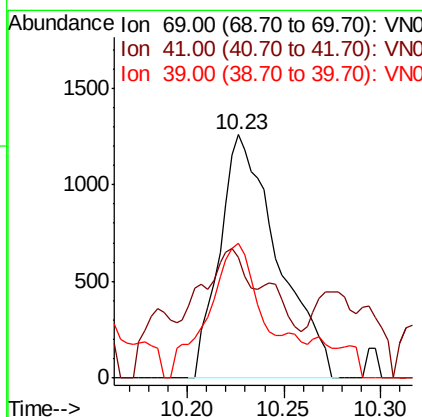
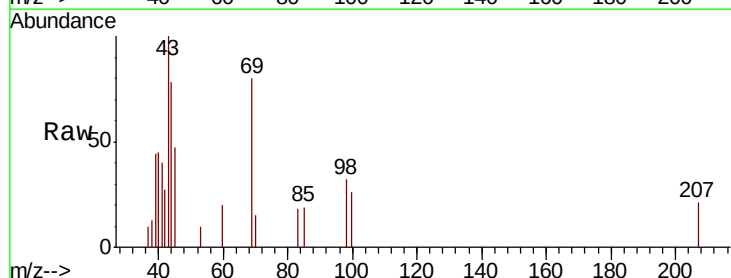
Instrument :
MSVOA_N
ClientSampleId :
NB-08-073018-B

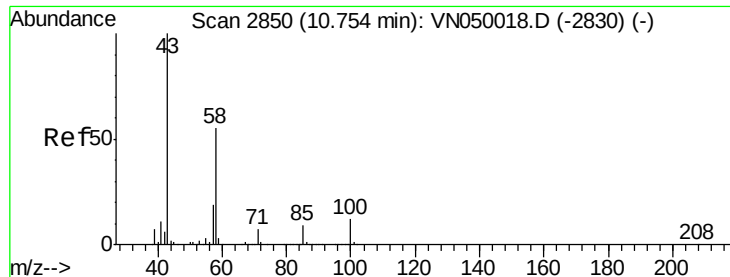
Tot Ion: 98 Resp: 1450531
Ion Ratio Lower Upper
98 100
100 63.1 50.7 76.1



#56
Ethyl methacrylate
Concen: 2.25 ug/l
RT: 10.23 min Scan# 2686
Delta R.T. -0.21 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

Tgt Ion: 69 Resp: 2625
Ion Ratio Lower Upper
69 100
41 27.1 51.0 76.4#
39 55.2 26.6 40.0#





#59

2-Hexanone

Concen: 7.75 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

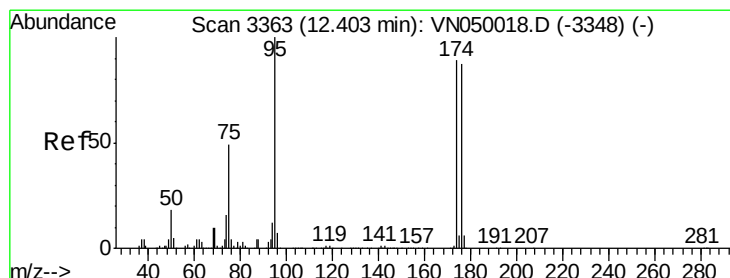
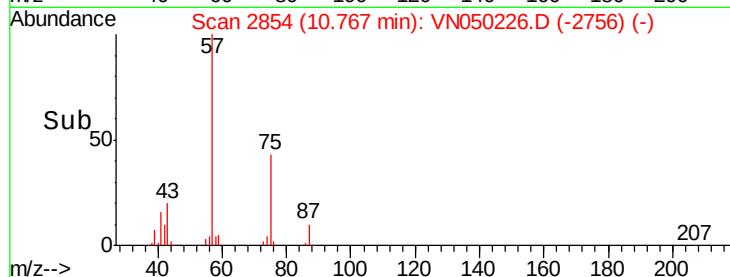
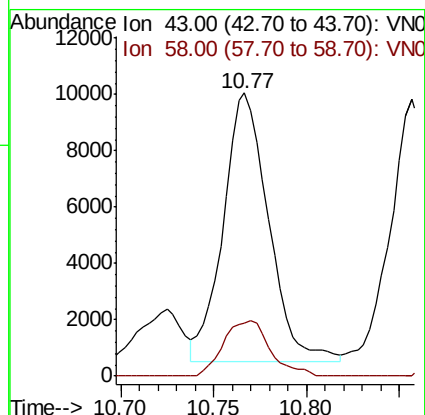
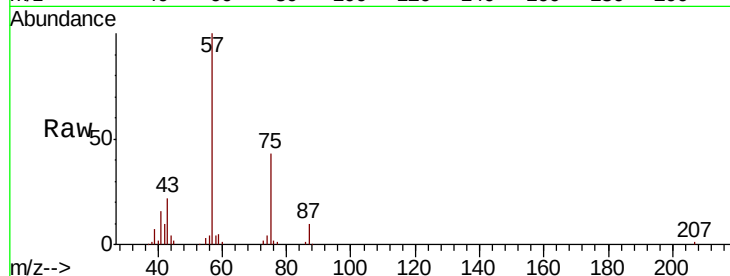
NB-08-073018-B

Tot Ion: 43 Resp: 16071

Ion Ratio Lower Upper

43 100

58 21.4 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 36.99 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

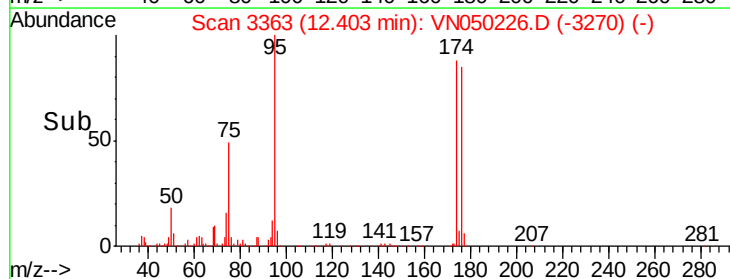
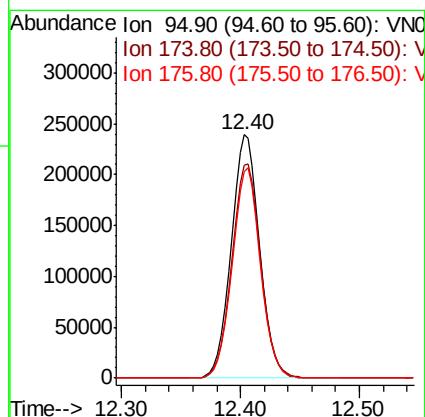
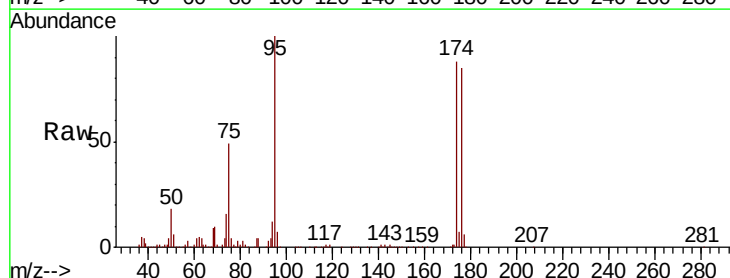
Tgt Ion: 95 Resp: 393563

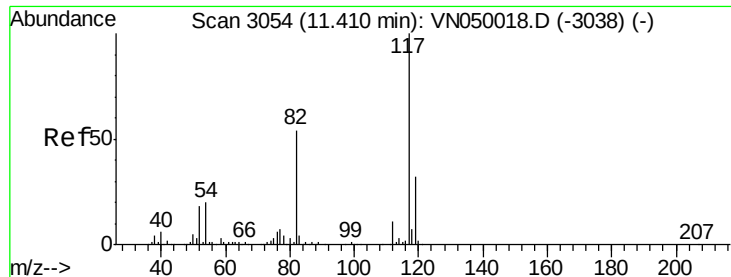
Ion Ratio Lower Upper

95 100

174 90.0 0.0 178.2

176 86.0 0.0 173.4

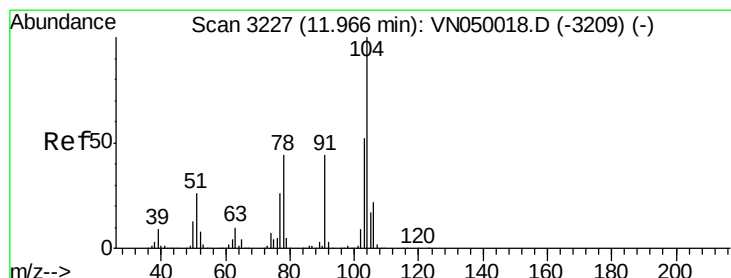
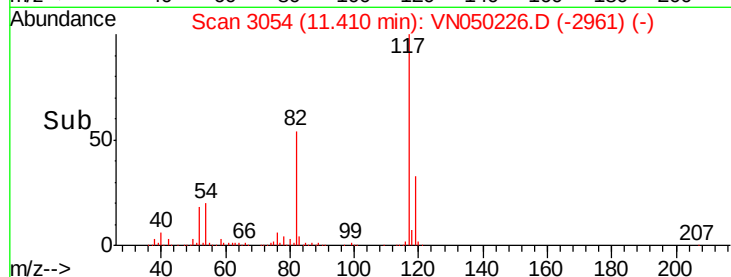
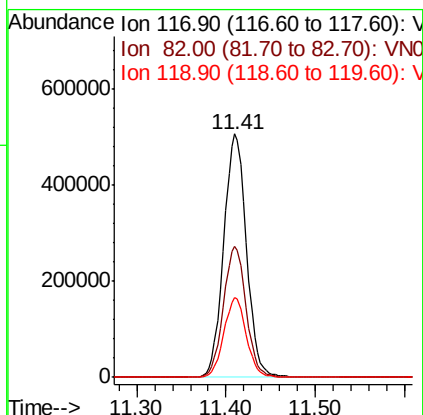
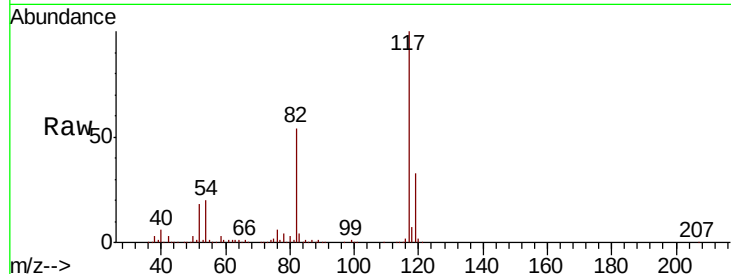




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

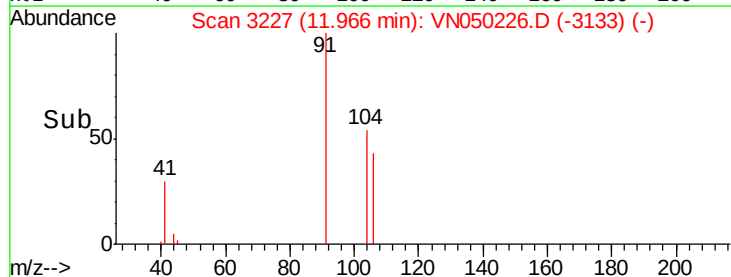
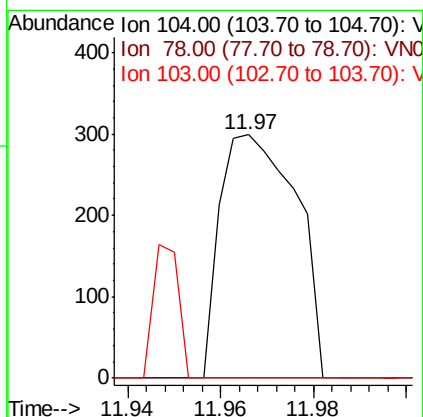
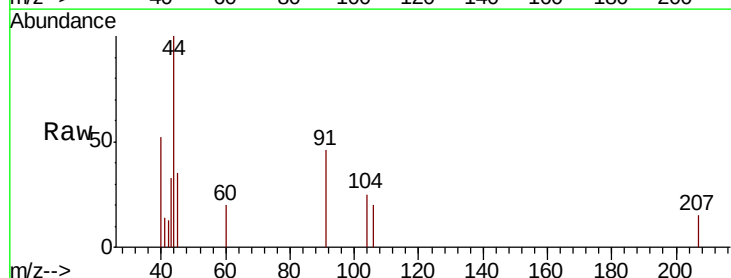
Instrument :
MSVOA_N
ClientSampleId :
NB-08-073018-B

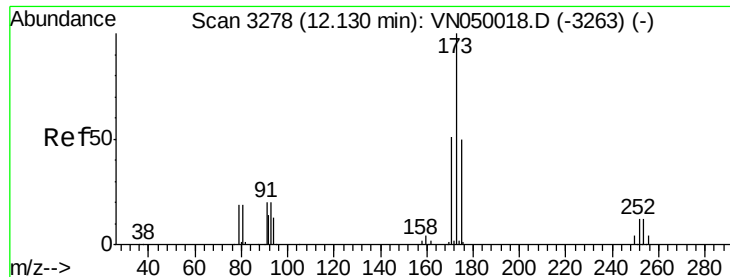
Tot Ion:117 Resp: 892302
Ion Ratio Lower Upper
117 100
82 54.0 43.7 65.5
119 32.8 26.1 39.1



#70
Styrene
Concen: 0.94 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

Tgt Ion:104 Resp: 343
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 17.8 45.0 67.6#





#71

Bromoform

Concen: 0.58 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

NB-08-073018-B

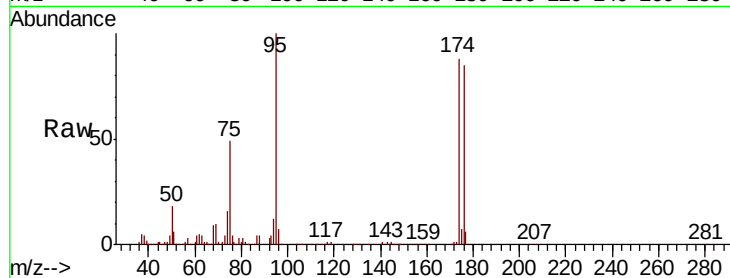
Tot Ion:173 Resp: 3669

Ion Ratio Lower Upper

173 100

175 641.0 24.1 72.2#

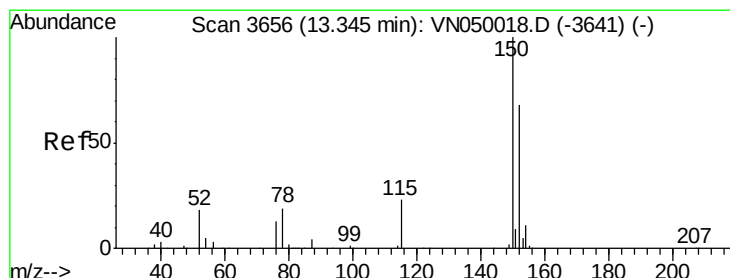
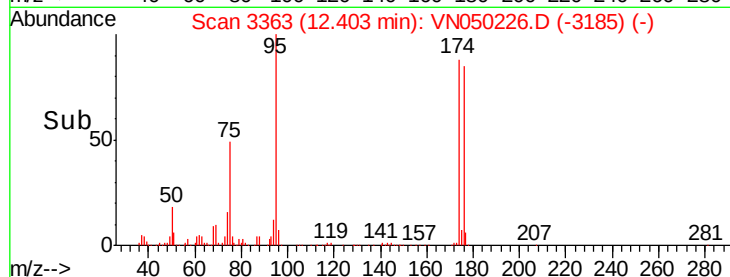
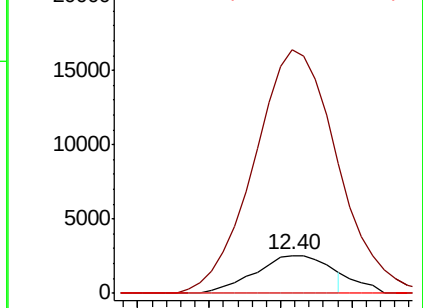
254 0.0 0.2 0.2#



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# 3656

Delta R.T. 0.00 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

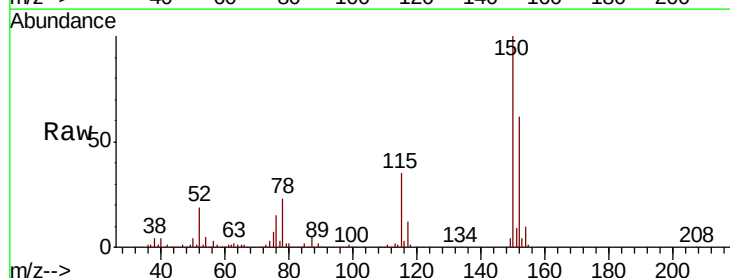
Tgt Ion:152 Resp: 325595

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.3

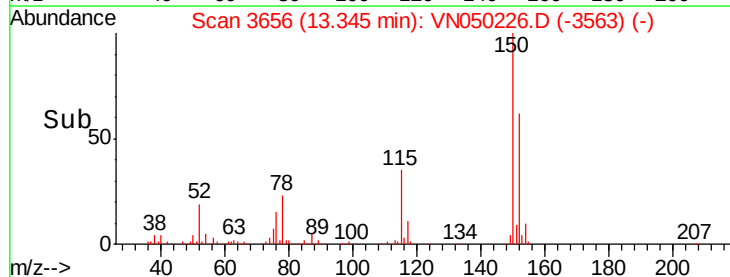
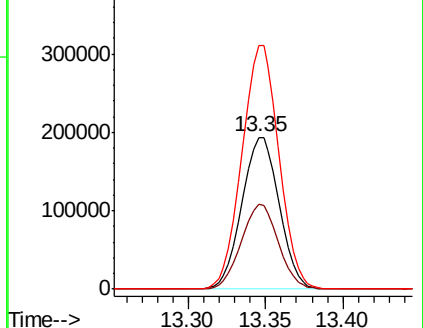
150 159.0 0.0 348.6

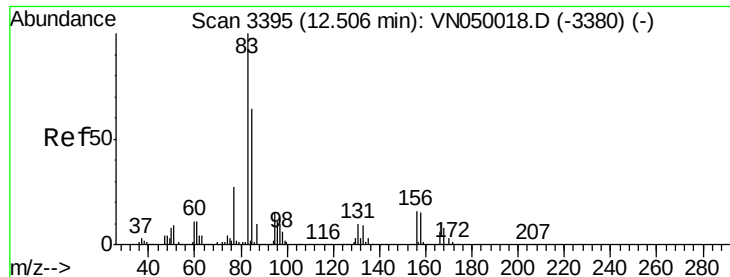


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3366

Delta R.T. -0.09 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

NB-08-073018-B

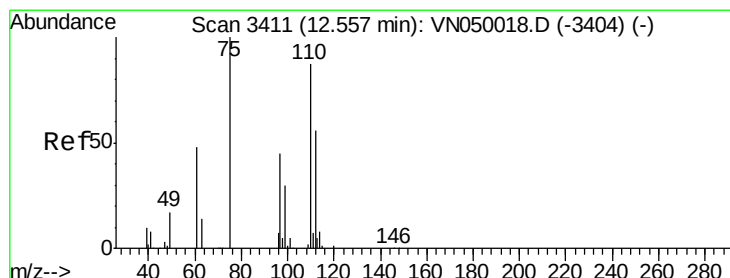
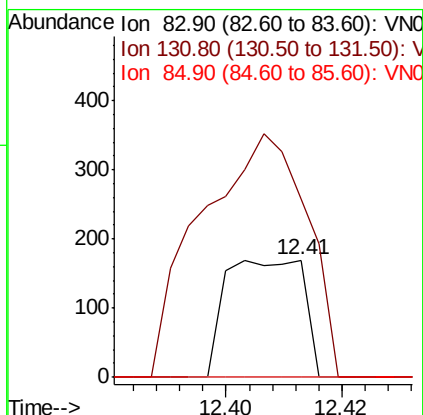
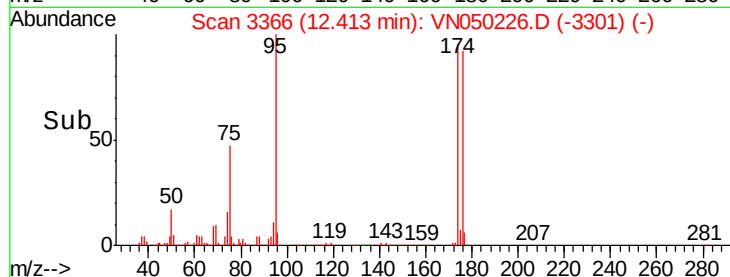
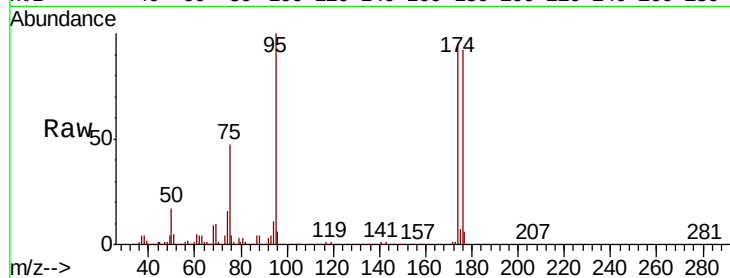
Tot Ion: 83 Resp: 157

Ion Ratio Lower Upper

83 100

131 284.7 5.1 15.3#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 31.49 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050226.D

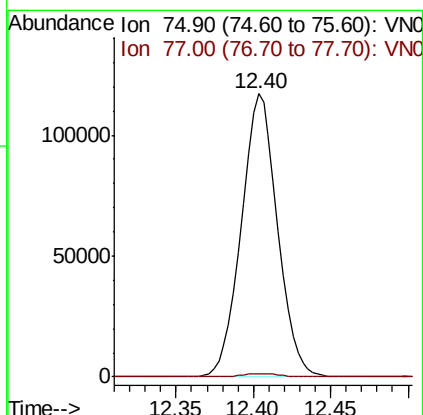
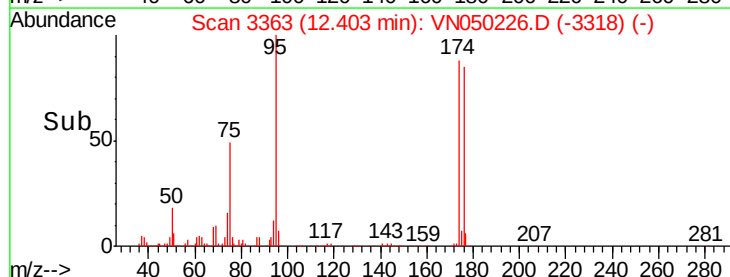
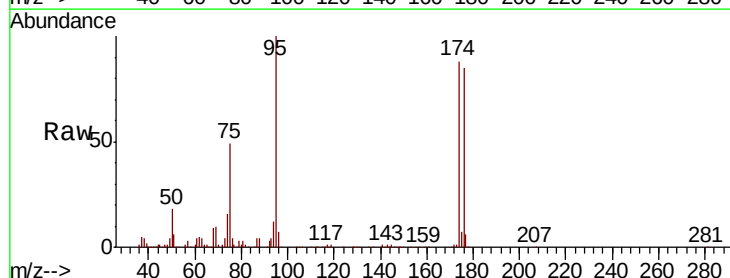
Acq: 31 Jul 2018 19:51

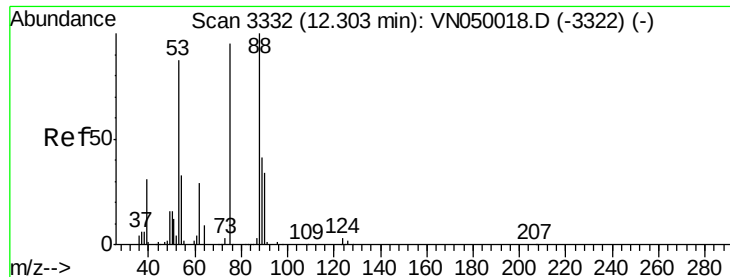
Tgt Ion: 75 Resp: 190567

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 99.89 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050226.D

Acq: 31 Jul 2018 19:51

Instrument :

MSVOA_N

ClientSampleId :

NB-08-073018-B

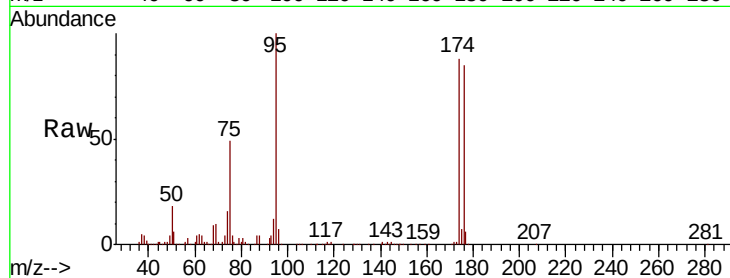
Tot Ion: 75 Resp: 190567

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

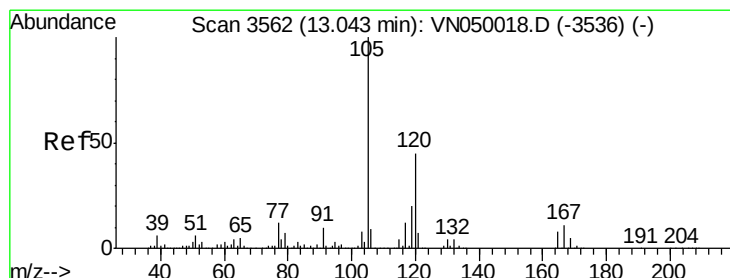
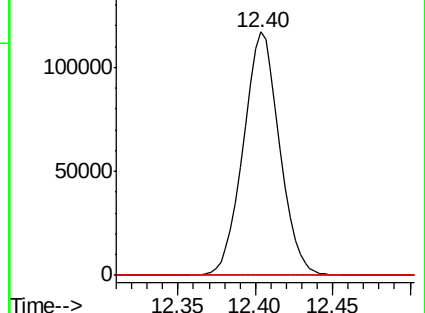
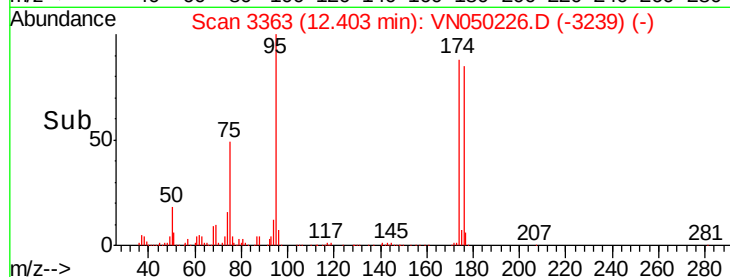
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050018.D (-3322) (-)

Ion 88.90 (88.60 to 89.60): VN050018.D (-3322) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.39 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN050226.D

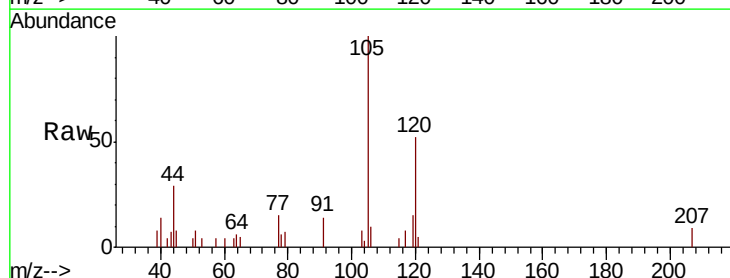
Acq: 31 Jul 2018 19:51

Tgt Ion: 105 Resp: 7712

Ion Ratio Lower Upper

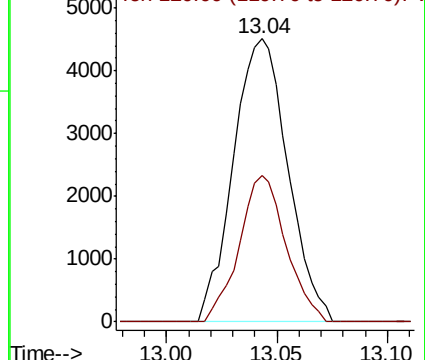
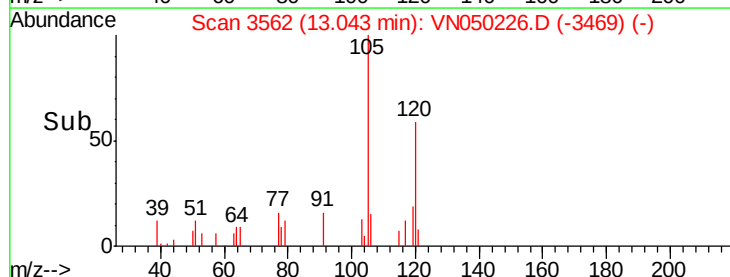
105 100

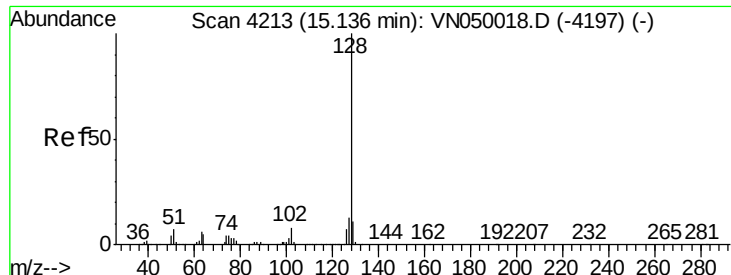
120 44.5 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): VN050018.D (-3536) (-)

Ion 120.00 (119.70 to 120.70): VN050018.D (-3536) (-)





#95
Naphthalene
Concen: 8.87 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050226.D
Acq: 31 Jul 2018 19:51

Instrument :
MSVOA_N
ClientSampleId :
NB-08-073018-B

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	10.8	8.8	13.2

