

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN071618\
 Data File : BN002052.D
 Acq On : 16 Jul 2018 17:28
 Operator : JU/SJ
 Sample : J3986-02
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Jul 17 00:50:57 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN071318MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jul 17 00:49:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	441605	20.00	ng/ul	0.00
18) Naphthalene-d8	10.48	136	2049396	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.34	164	1228849	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.09	188	2799005	20.00	ng/ul	0.00
77) Chrysene-d12	21.29	240	3034106	20.00	ng/ul	0.00
85) Perylene-d12	23.52	264	3137071	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.26	96	61048	6.24	ng/uL	0.00
5) Phenol-d5	6.88	99	1340443	32.23	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.05	67	877871	34.65	ng/ul	0.00
9) 2-Chlorophenol-d4	7.24	132	1052577	32.05	ng/ul	0.00
13) 4-Methylphenol-d8	8.41	113	1133583	33.84	ng/ul	0.00
19) Nitrobenzene-d5	8.85	128	570682	33.61	ng/ul	0.00
22) 2-Nitrophenol-d4	9.57	143	648299	33.77	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.10	165	1115370	32.09	ng/ul	0.00
29) 4-Chloroaniline-d4	10.62	131	1702887	42.62	ng/ul	0.00
43) Dimethylphthalate-d6	13.75	166	3834552	36.81	ng/ul	0.00
46) Acenaphthylene-d8	14.03	160	4542589	35.06	ng/ul	0.00
51) 4-Nitrophenol-d4	14.56	143	769769	38.68	ng/ul	0.00
57) Fluorene-d10	15.33	176	3165846	35.34	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.46	200	727238	39.89	ng/ul	0.00
70) Anthracene-d10	17.19	188	4937906	36.18	ng/ul	0.00
78) Pyrene-d10	19.49	212	5581046	35.38	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.39	264	6334132	37.39	ng/ul	0.00

Target Compounds

					Ovalue
8) Bis(2-Chloroethyl)ether	7.13	93	628974	19.751	ng/ul# 86
12) 2,2'-oxybis(1-Chloropropan	8.23	45	848246	16.204	ng/ul# 84
16) 4-Methylphenol	8.47	108	1593386	45.719	ng/ul 88
17) Hexachloroethane	8.77	117	735516	56.795	ng/ul 99
20) Nitrobenzene	8.89	77	737526	18.873	ng/ul 95
23) 2-Nitrophenol	9.60	139	758338	38.568	ng/ul 89
24) 2,4-Dimethylphenol	9.67	107	1037329	26.351	ng/ul 99
25) Bis(2-Chloroethoxy)methane	9.90	93	872988	18.547	ng/ul 99
27) 2,4-Dichlorophenol	10.13	162	839860	25.174	ng/ul 99
30) 4-Chloroaniline	10.65	127	2669460	68.023	ng/ul 98
34) 2-Methylnaphthalene	12.15	142	2003852	25.374	ng/ul 99
37) Hexachlorocyclopentadiene	12.50	237	1237538	48.962	ng/ul 99
38) 2,4,6-Trichlorophenol	12.76	196	511088	18.660	ng/ul 99
39) 2,4,5-Trichlorophenol	12.76	196	511088	17.665	ng/ul 99
41) 2-Chloronaphthalene	13.20	162	1207607	15.186	ng/ul 95
42) 2-Nitroaniline	13.42	65	1738608	68.002	ng/ul 86
44) Dimethylphthalate	13.80	163	3372994	33.059	ng/ul 99
45) 2,6-Dinitrotoluene	13.92	165	348849	16.177	ng/ul 99
48) 3-Nitroaniline	14.25	138	1583747	74.509	ng/ul 96
50) 2,4-Dinitrophenol	14.46	184	938660	74.000	ng/ul# 1
52) 4-Nitrophenol	14.57	109	943488	67.836	ng/ul# 74
59) 4-Chlorophenyl-phenylether	15.39	204	777344	16.159	ng/ul 90
60) 4-Nitroaniline	15.42	138	1085366	44.104	ng/ul 90

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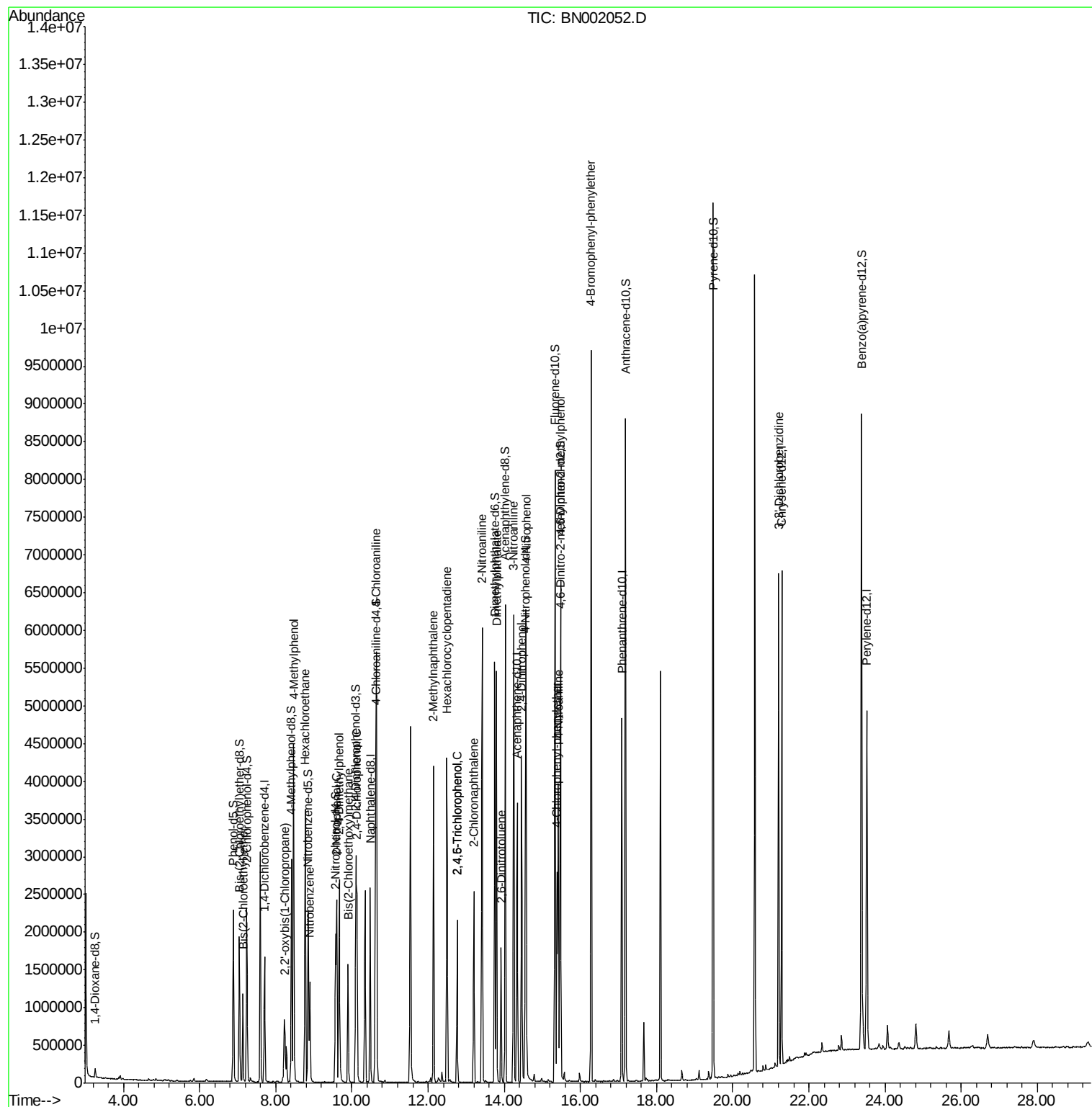
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 4,6-Dinitro-2-methylphenol	15.48	198	1222727	64.779	ng/ul	96
65) 4-Bromophenyl-phenylether	16.28	248	1846686	59.959	ng/ul	92
81) 3,3'-Dichlorobenzidine	21.20	252	1766356	27.455	ng/ul	99

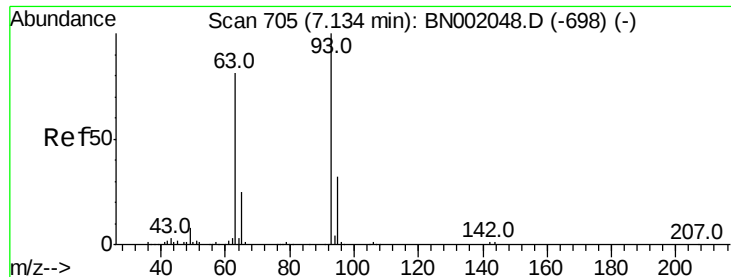
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Bis(2-Chloroethyl)ether

Concen: 19.751 ng/ul

RT: 7.13 min Scan# 705

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

Instrument :

BNA_N

ClientSampled :

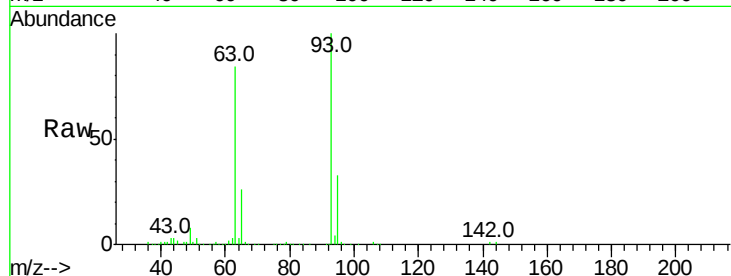
Tot Ion: 93 Resp: 628974

Ion Ratio Lower Upper

93 100

63 83.7 53.5 80.3#

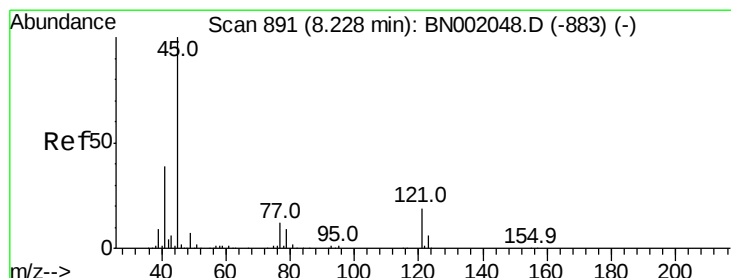
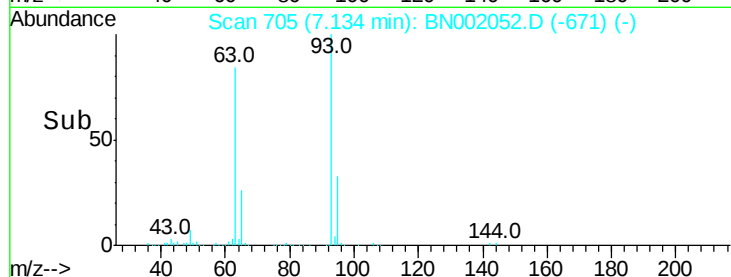
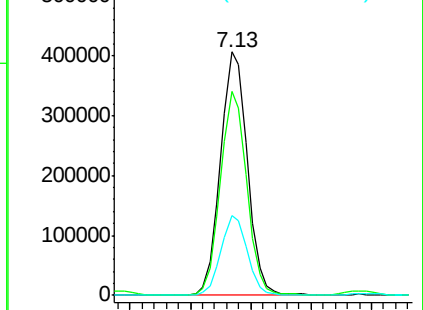
95 32.9 26.2 39.2



Abundance Ion 93.00 (92.70 to 93.70): BN002048.D (-698) (-)

Ion 63.00 (62.70 to 63.70): BN002048.D (-698) (-)

Ion 95.00 (94.70 to 95.70): BN002048.D (-698) (-)



#12

2,2'-oxybis(1-Chloropropane)

Concen: 16.204 ng/ul

RT: 8.23 min Scan# 891

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

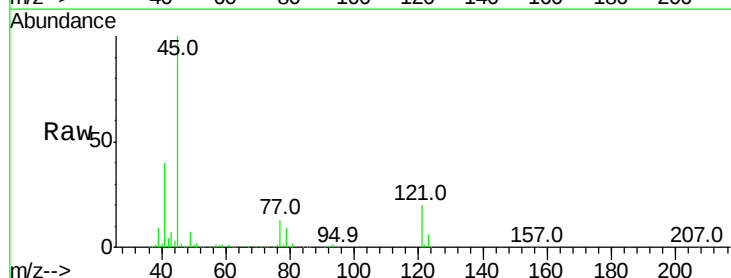
Tgt Ion: 45 Resp: 848246

Ion Ratio Lower Upper

45 100

77 12.6 15.9 23.9#

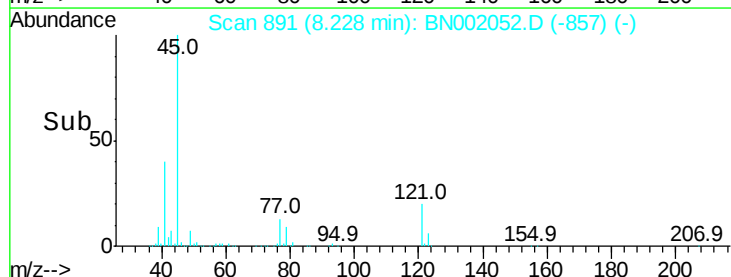
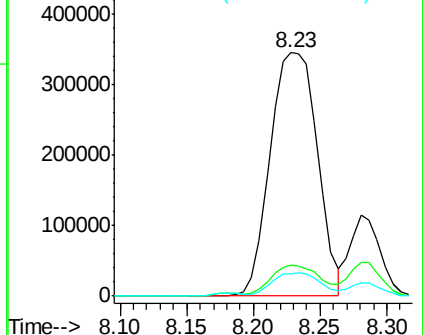
79 9.3 12.5 18.7#

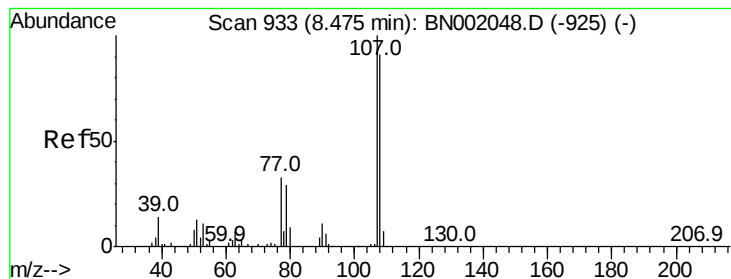


Abundance Ion 45.00 (44.70 to 45.70): BN002048.D (-883) (-)

Ion 77.00 (76.70 to 77.70): BN002048.D (-883) (-)

Ion 79.00 (78.70 to 79.70): BN002048.D (-883) (-)





#16

4-Methylphenol

Concen: 45.719 ng/ul

RT: 8.47 min Scan# 932

Delta R.T. -0.01 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

Instrument :

BNA_N

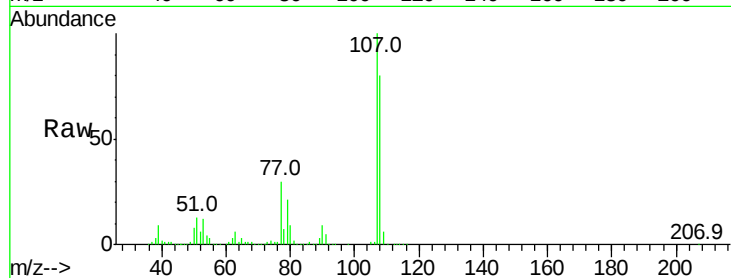
ClientSampled :

Tot Ion:108 Resp: 1593386

Ion Ratio Lower Upper

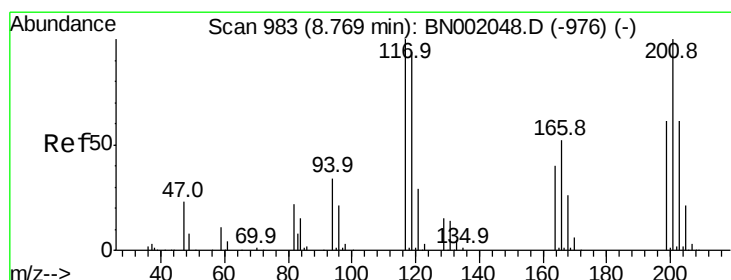
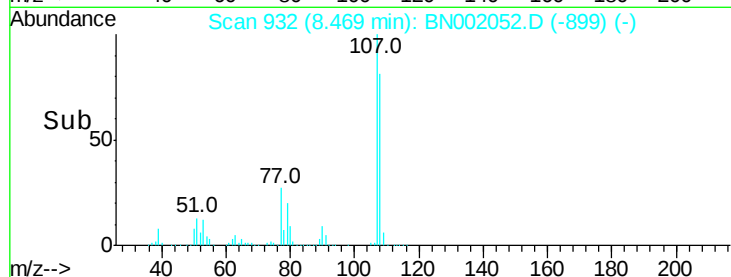
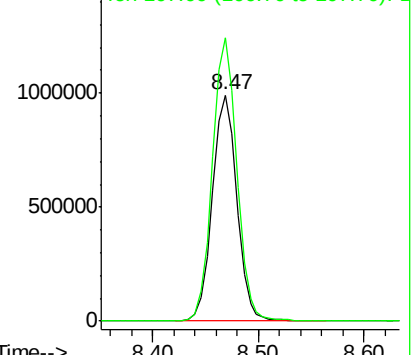
108 100

107 125.4 90.3 135.5



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#17

Hexachloroethane

Concen: 56.795 ng/ul

RT: 8.77 min Scan# 983

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

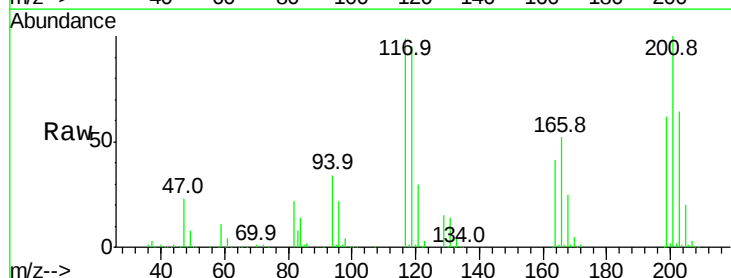
Tgt Ion:117 Resp: 735516

Ion Ratio Lower Upper

117 100

201 101.1 81.5 122.3

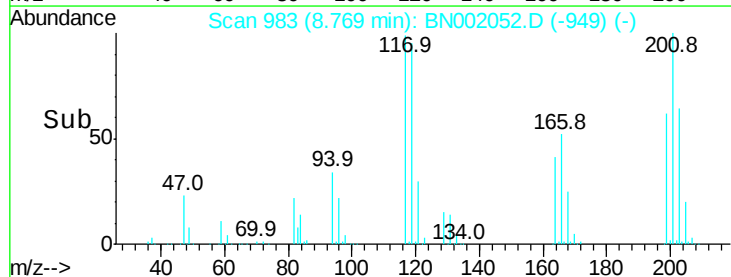
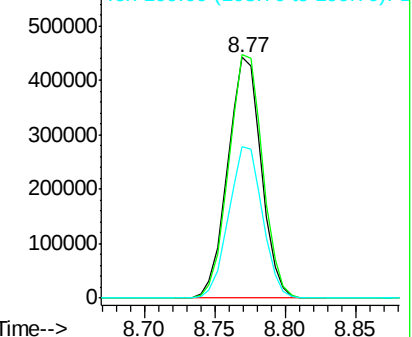
199 62.8 50.6 76.0

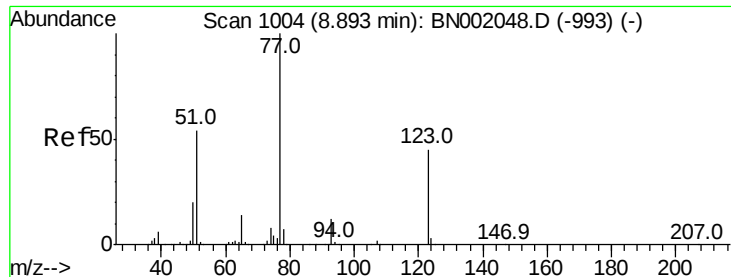


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E

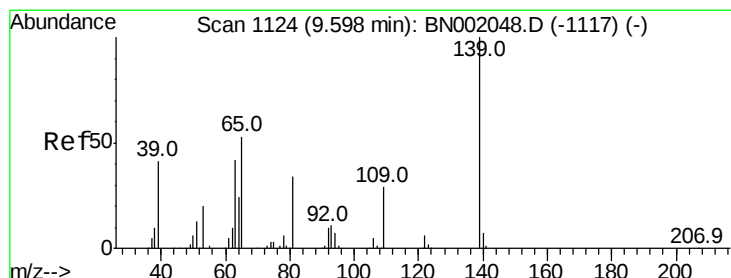
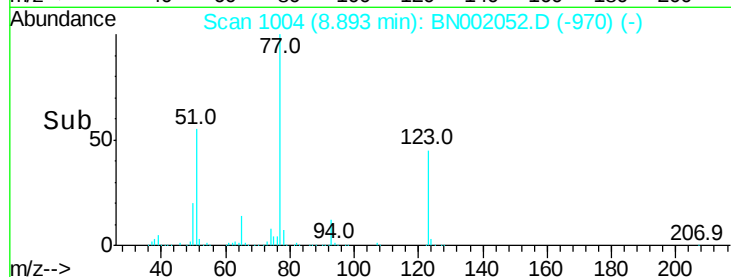
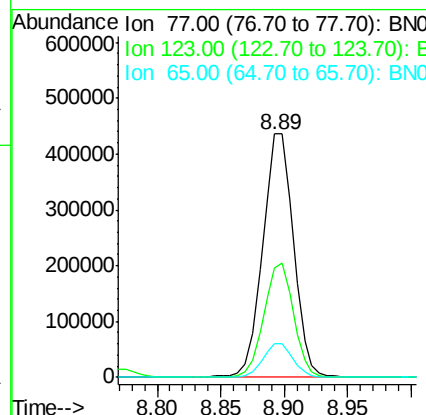
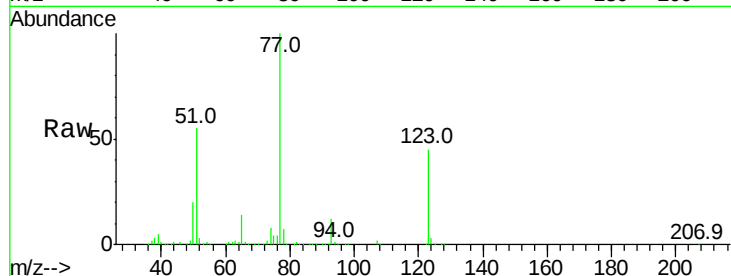




#20
Nitrobenzene
Concen: 18.873 ng/ul
RT: 8.89 min Scan# 1004
Delta R.T. 0.00 min
Lab File: BN002052.D
Acq: 16 Jul 2018 17:28

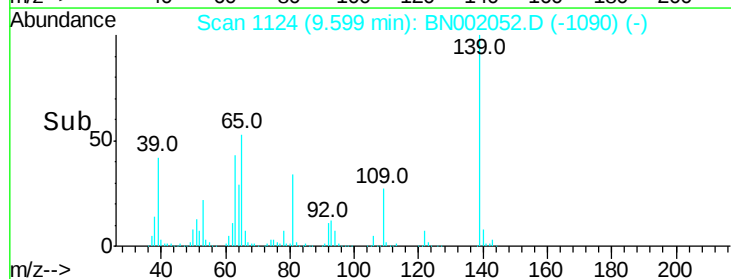
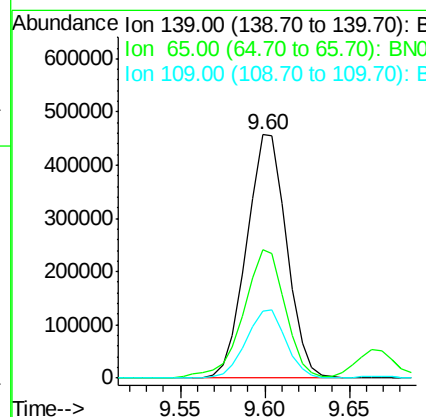
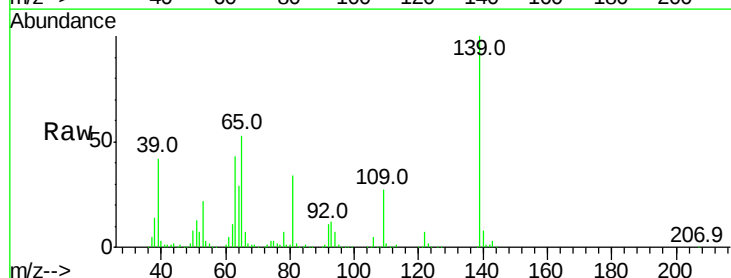
Instrument :
BNA_N
ClientSampled :

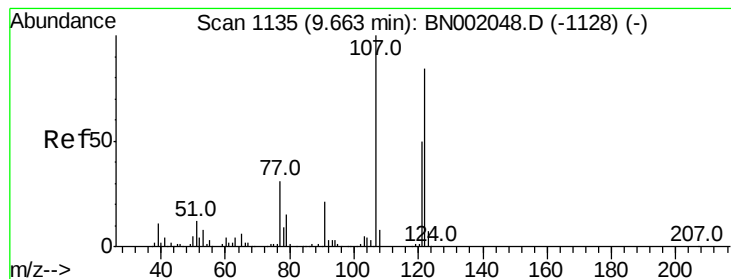
Tot Ion	Ratio	Lower	Upper
77	100		
123	44.6	39.0	58.4
65	13.9	10.4	15.6



#23
2-Nitrophenol
Concen: 38.568 ng/ul
RT: 9.60 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BN002052.D
Acq: 16 Jul 2018 17:28

Tgt Ion	Ratio	Lower	Upper
139	100		
65	52.8	36.3	54.5
109	27.4	26.4	39.6





#24

2,4-Dimethylphenol

Concen: 26.351 ng/ul

RT: 9.67 min Scan# 1136

Delta R.T. 0.01 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

Instrument :

BNA_N

ClientSampleId :

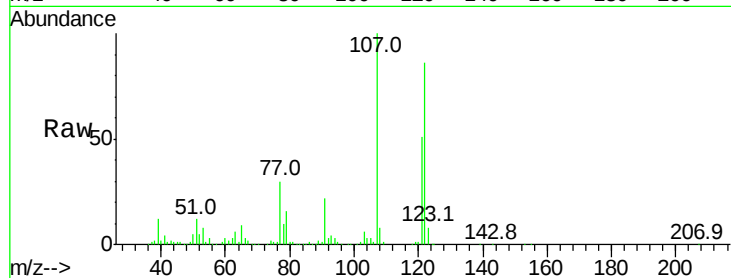
Tot Ion:107 Resp: 1037329

Ion Ratio Lower Upper

107 100

121 51.0 40.6 61.0

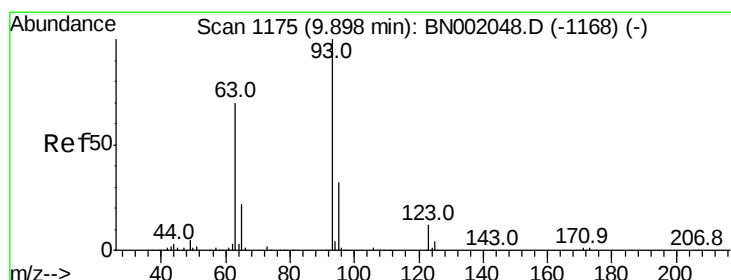
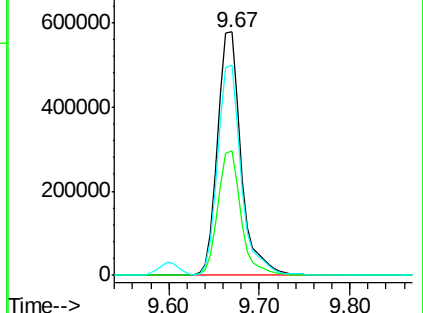
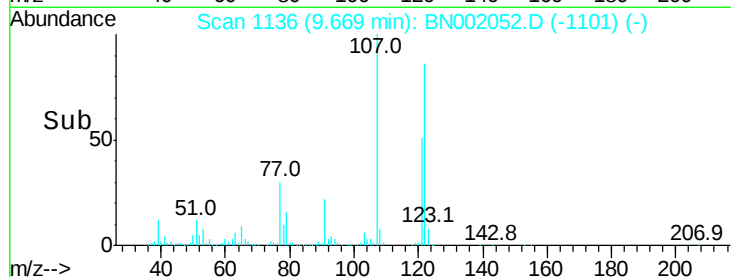
122 86.2 67.8 101.6



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E



#25

Bis(2-Chloroethoxy)methane

Concen: 18.547 ng/ul

RT: 9.90 min Scan# 1175

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

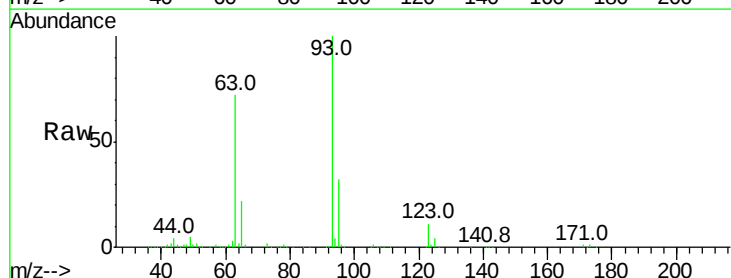
Tgt Ion: 93 Resp: 872988

Ion Ratio Lower Upper

93 100

95 32.3 25.8 38.8

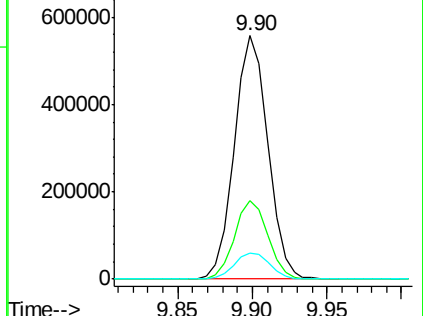
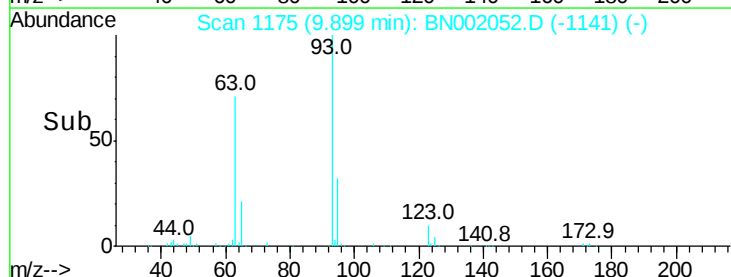
123 10.9 9.8 14.8

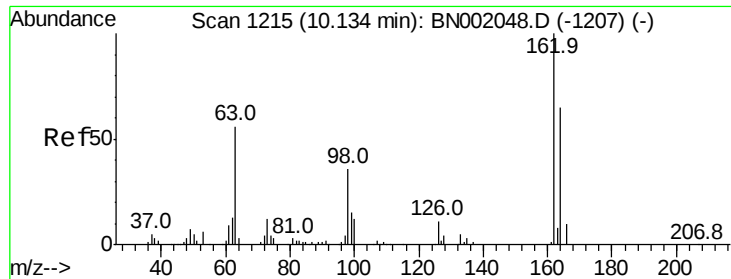


Abundance Ion 93.00 (92.70 to 93.70): BNC

Ion 95.00 (94.70 to 95.70): BNC

Ion 123.00 (122.70 to 123.70): E

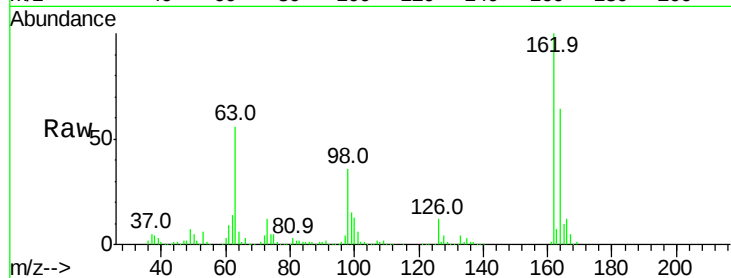




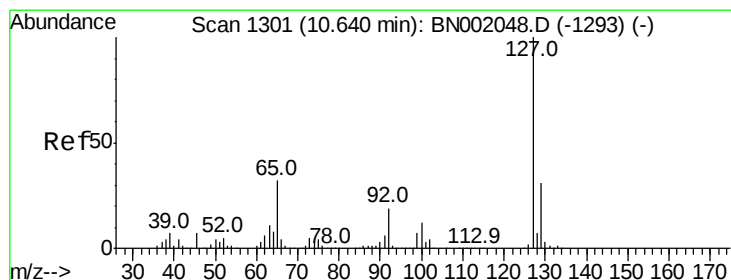
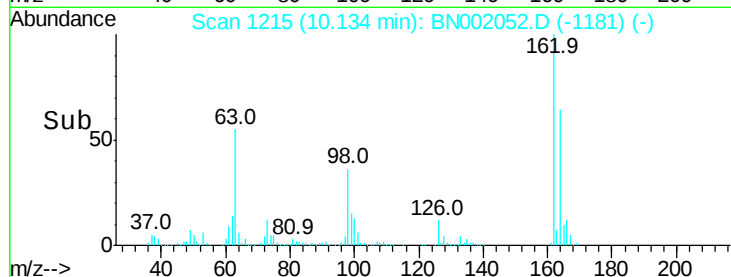
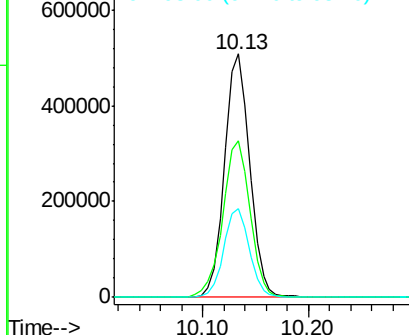
#27
 2,4-Dichlorophenol
 Concen: 25.174 ng/ul
 RT: 10.13 min Scan# 1215
 Delta R.T. 0.00 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
162	100		
164	64.2	52.1	78.1
98	36.3	28.4	42.6

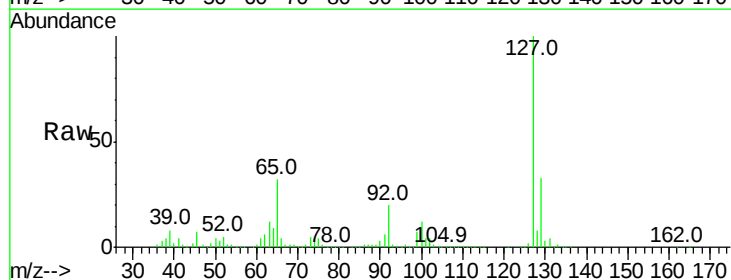


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): BNC

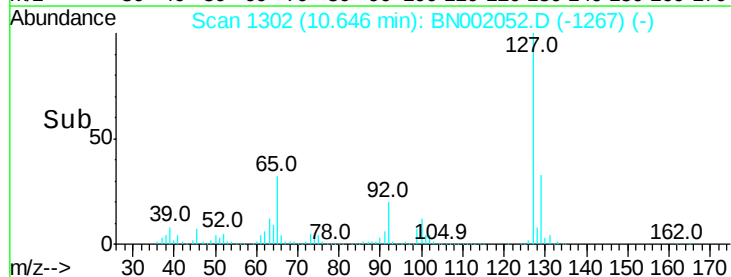
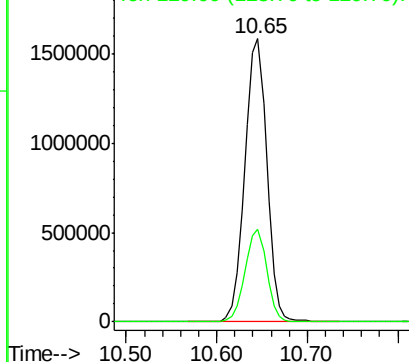


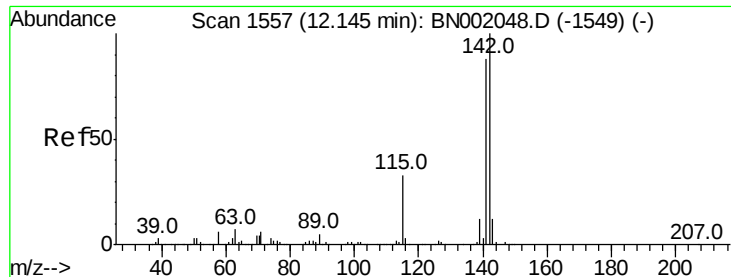
#30
 4-Chloroaniline
 Concen: 68.023 ng/ul
 RT: 10.65 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.8	25.4	38.2



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

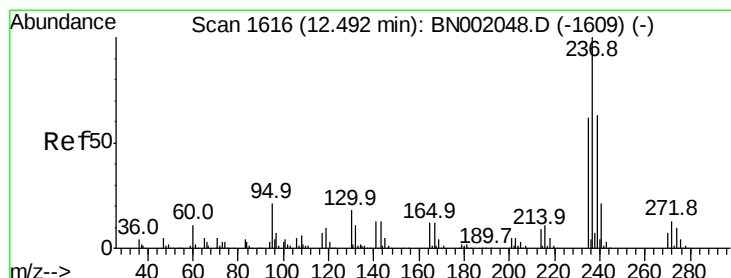
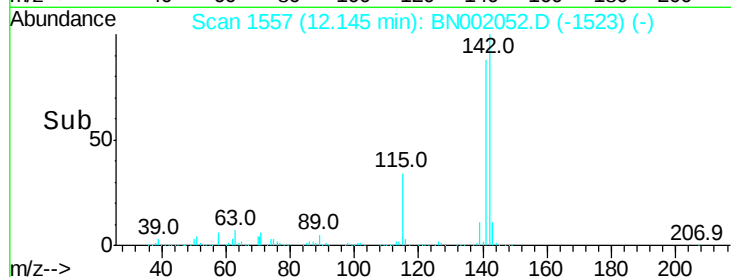
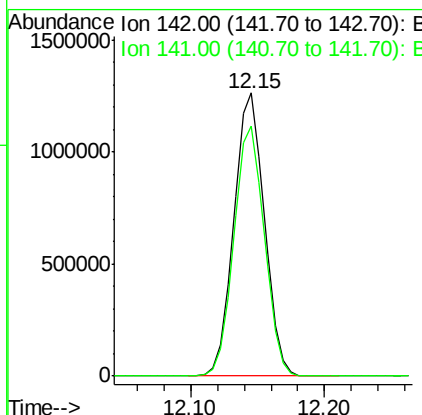
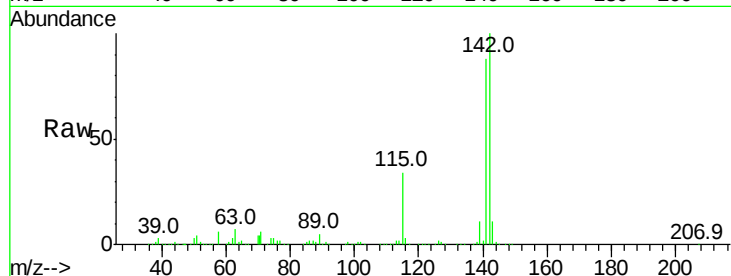




#34
 2-Methylnaphthalene
 Concen: 25.374 ng/ul
 RT: 12.15 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

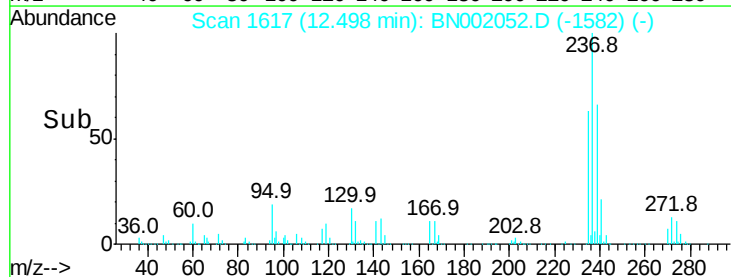
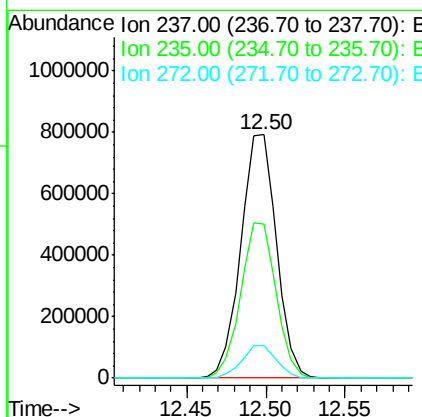
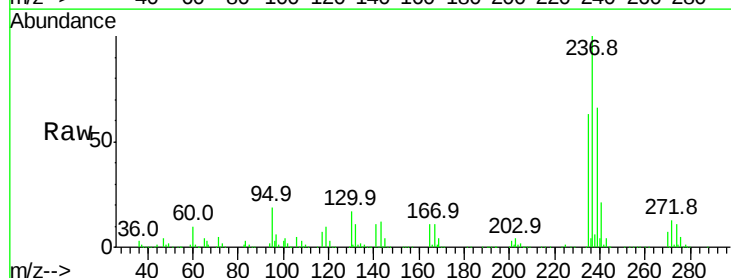
Instrument :
 BNA_N
 ClientSampleId :

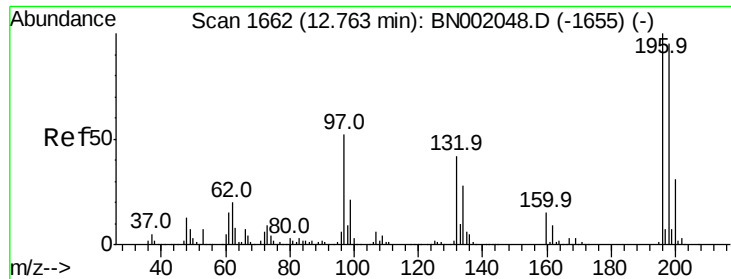
Tot Ion:142 Resp: 2003852
 Ion Ratio Lower Upper
 142 100
 141 88.2 71.6 107.4



#37
 Hexachlorocyclopentadiene
 Concen: 48.962 ng/ul
 RT: 12.50 min Scan# 1617
 Delta R.T. 0.01 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

Tgt Ion:237 Resp: 1237538
 Ion Ratio Lower Upper
 237 100
 235 63.2 50.4 75.6
 272 13.3 9.6 14.4

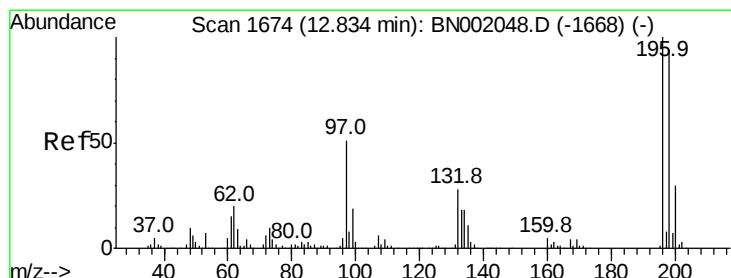
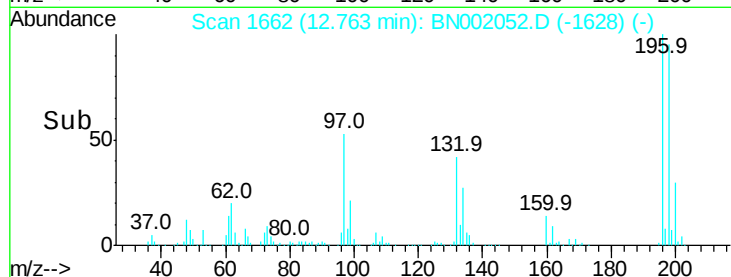
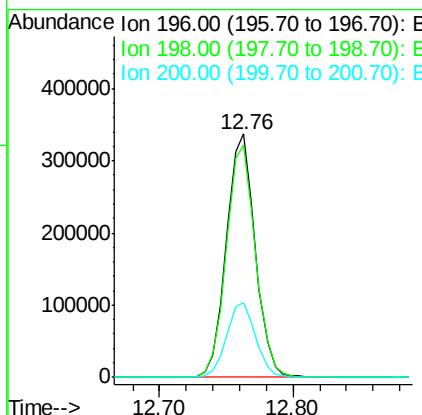
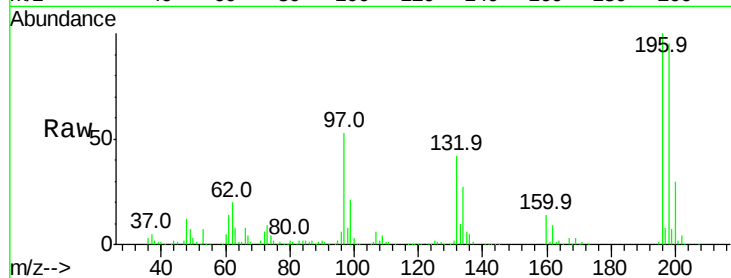




#38
 2,4,6-Trichlorophenol
 Concen: 18.660 ng/ul
 RT: 12.76 min Scan# 1662
 Delta R.T. 0.00 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

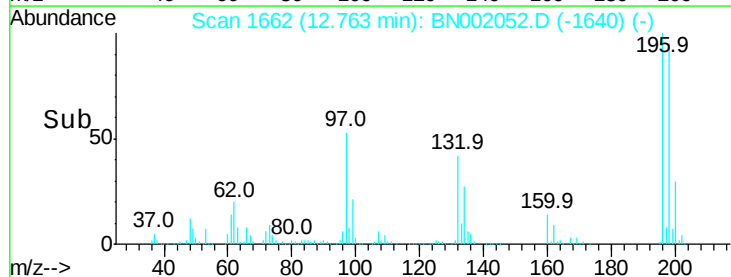
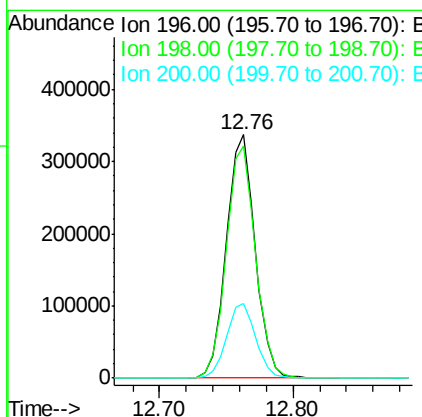
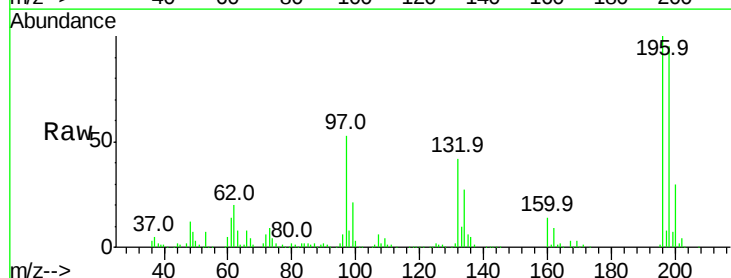
Instrument :
 BNA_N
 ClientSampleId :

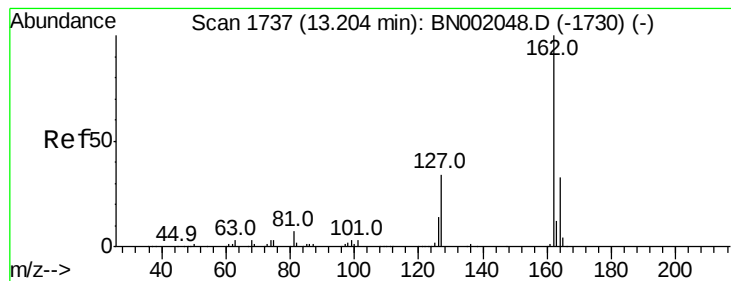
Tot Ion:196 Resp: 511088
 Ion Ratio Lower Upper
 196 100
 198 95.1 76.6 114.8
 200 30.4 24.7 37.1



#39
 2,4,5-Trichlorophenol
 Concen: 17.665 ng/ul
 RT: 12.76 min Scan# 1662
 Delta R.T. -0.07 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

Tgt Ion:196 Resp: 511088
 Ion Ratio Lower Upper
 196 100
 198 95.1 76.9 115.3
 200 30.4 25.0 37.4





#41

2-Chloronaphthalene

Concen: 15.186 ng/ul

RT: 13.20 min Scan# 1737

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

Instrument :

BNA_N

ClientSampled :

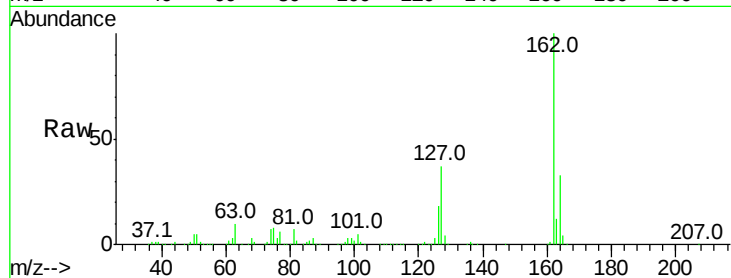
Tot Ion:162 Resp: 1207607

Ion Ratio Lower Upper

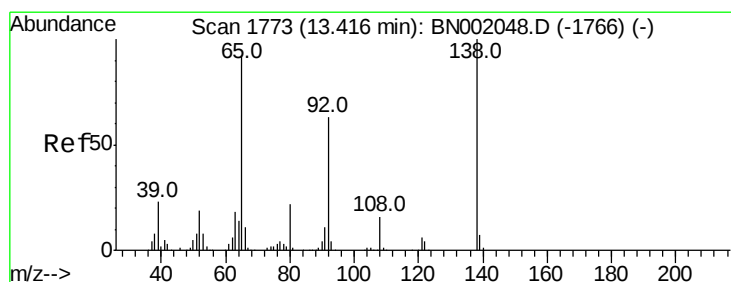
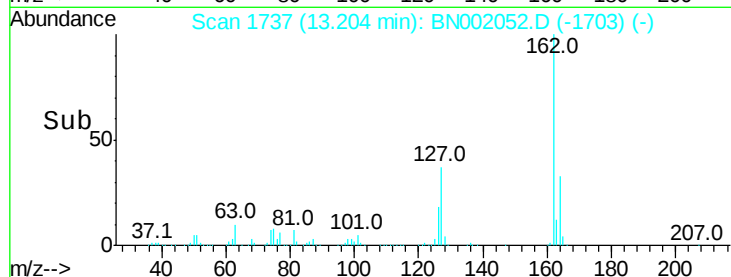
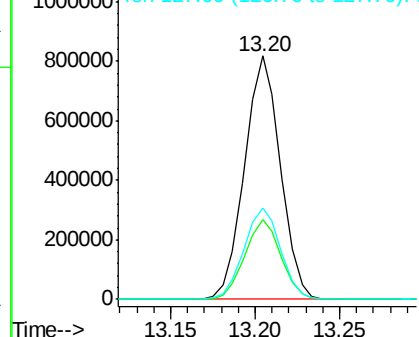
162 100

164 32.8 25.9 38.9

127 37.4 34.1 51.1



Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 127.00 (126.70 to 127.70): E



#42

2-Nitroaniline

Concen: 68.002 ng/ul

RT: 13.42 min Scan# 1774

Delta R.T. 0.01 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

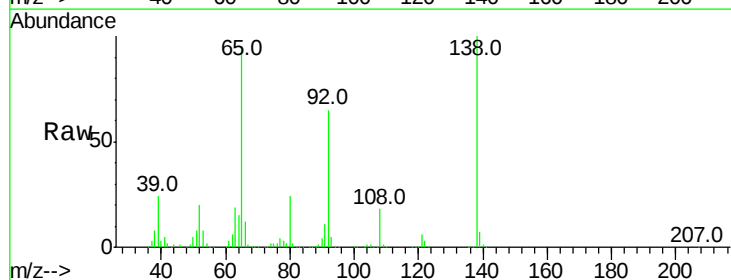
Tgt Ion: 65 Resp: 1738608

Ion Ratio Lower Upper

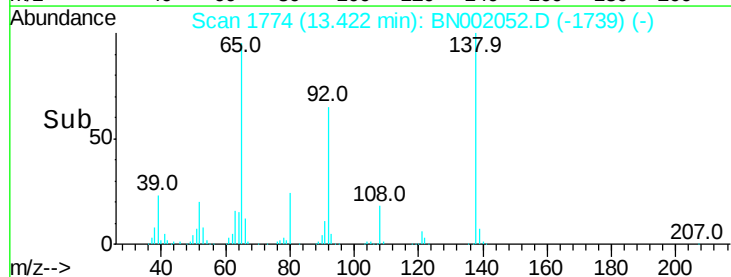
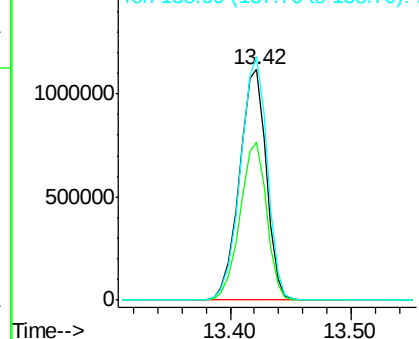
65 100

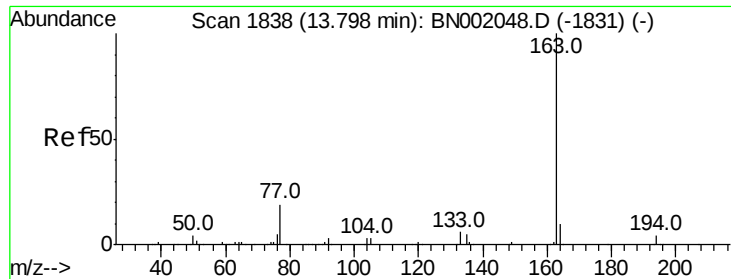
92 68.3 60.4 90.6

138 105.7 99.8 149.6



Abundance Ion 65.00 (64.70 to 65.70): BNC
Ion 92.00 (91.70 to 92.70): BNC
Ion 138.00 (137.70 to 138.70): E





#44

Dimethylphthalate

Concen: 33.059 ng/ul

RT: 13.80 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

Instrument :

BNA_N

ClientSampled :

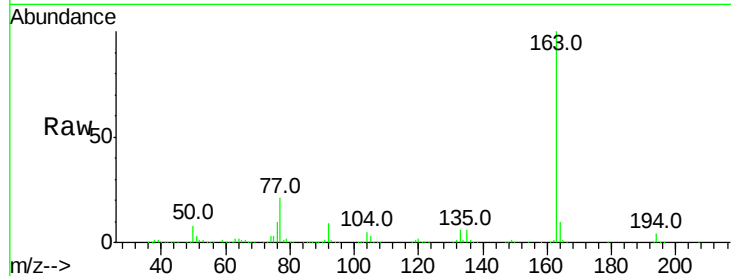
Tot Ion:163 Resp: 3372994

Ion Ratio Lower Upper

163 100

194 4.1 3.2 4.8

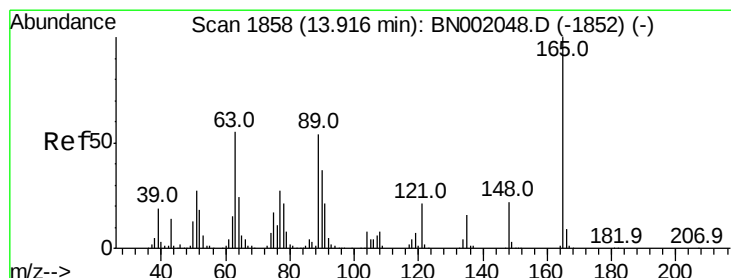
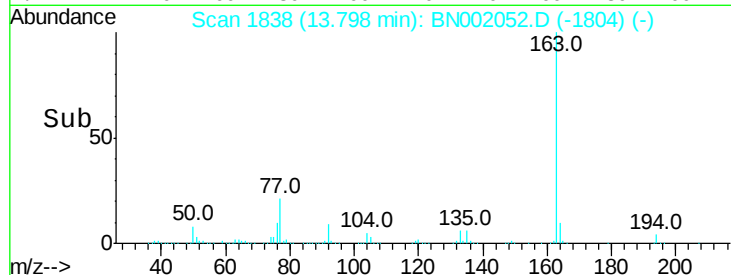
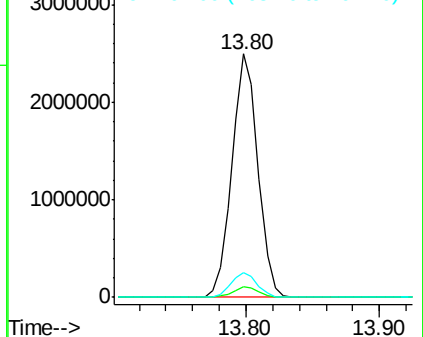
164 10.2 7.8 11.8



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#45

2,6-Dinitrotoluene

Concen: 16.177 ng/ul

RT: 13.92 min Scan# 1858

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

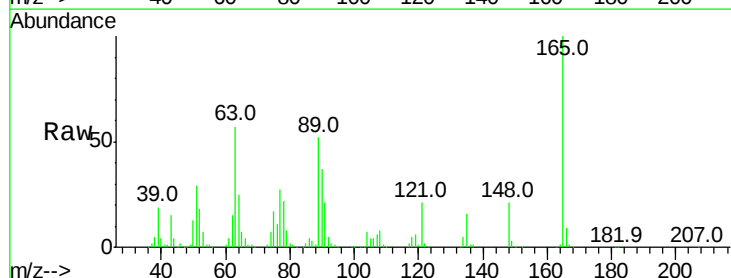
Tgt Ion:165 Resp: 348849

Ion Ratio Lower Upper

165 100

89 52.0 42.4 63.6

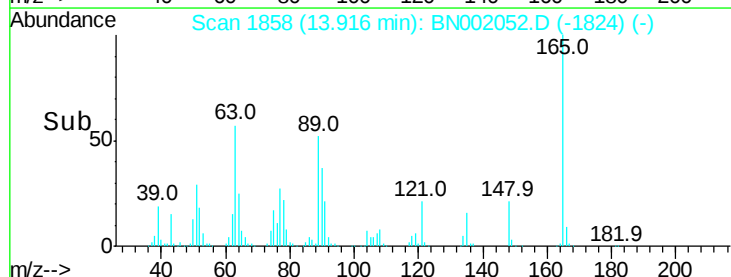
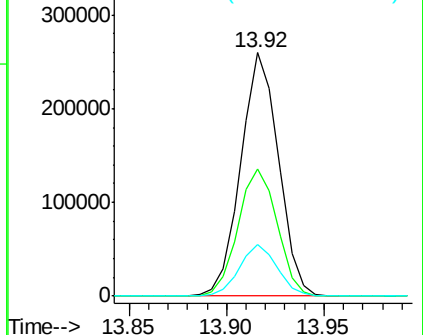
121 21.4 16.6 24.8

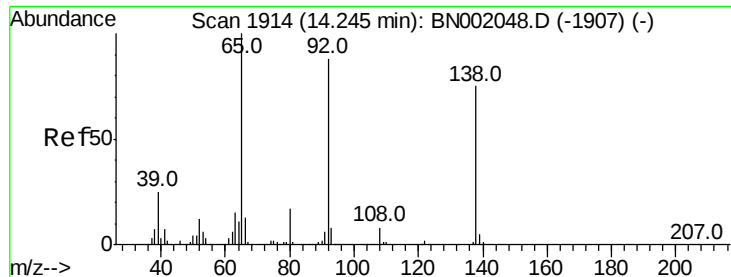


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 89.00 (88.70 to 89.70): BNC

Ion 121.00 (120.70 to 121.70): E





#48

3-Nitroaniline

Concen: 74.509 ng/ul

RT: 14.25 min Scan# 1915

Delta R.T. 0.01 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

Instrument :

BNA_N

ClientSampleId :

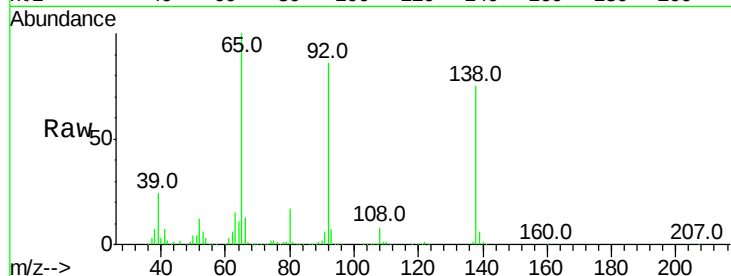
Tot Ion:138 Resp: 1583747

Ion Ratio Lower Upper

138 100

108 10.2 8.7 13.1

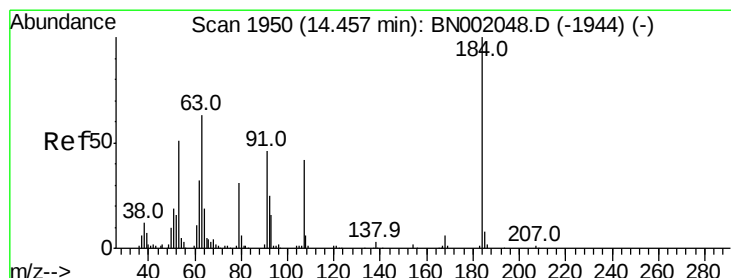
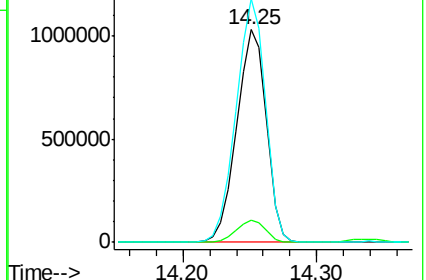
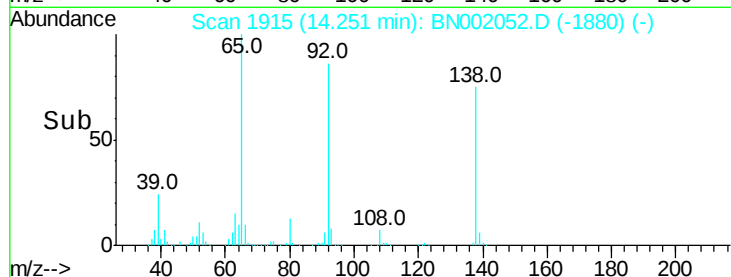
92 114.4 88.2 132.4



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BNC



#50

2,4-Dinitrophenol

Concen: 74.000 ng/ul

RT: 14.46 min Scan# 1950

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

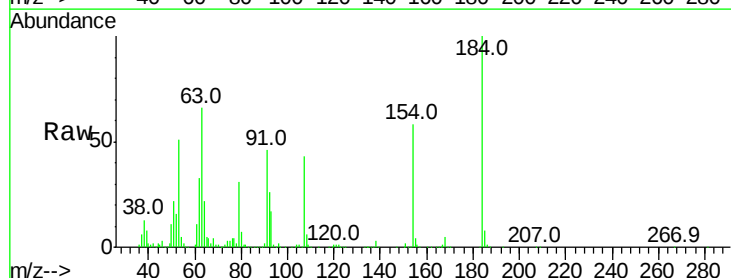
Tgt Ion:184 Resp: 938660

Ion Ratio Lower Upper

184 100

63 65.6 76.0 114.0#

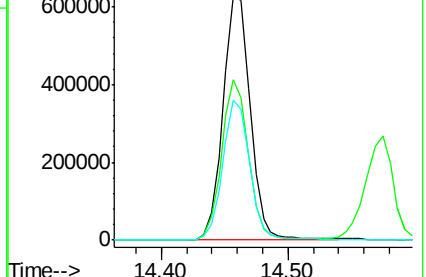
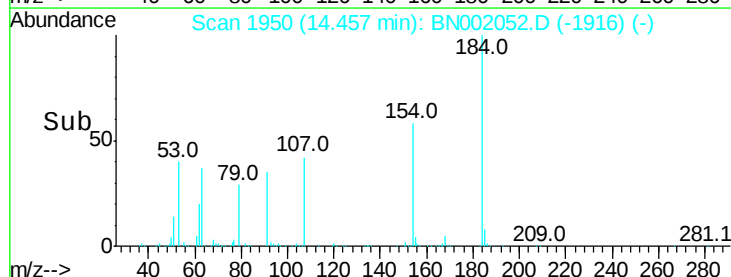
154 57.5 300.0 450.0#

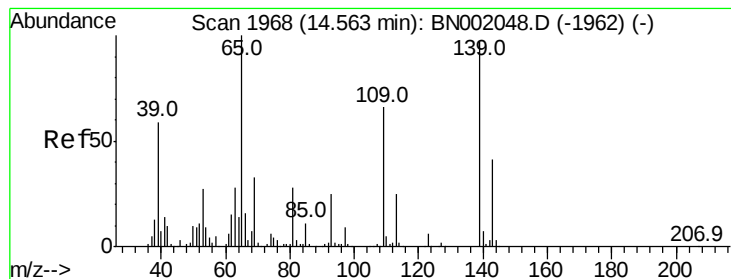


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BNC

Ion 154.00 (153.70 to 154.70): E





#52

4-Nitrophenol

Concen: 67.836 ng/ul

RT: 14.57 min Scan# 1970

Delta R.T. 0.01 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

Instrument :

BNA_N

ClientSampleId :

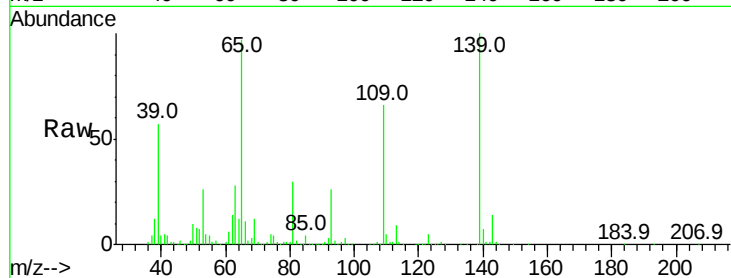
Tot Ion:109 Resp: 943488

Ion Ratio Lower Upper

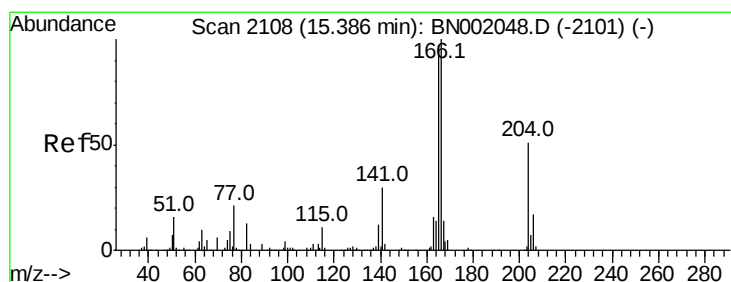
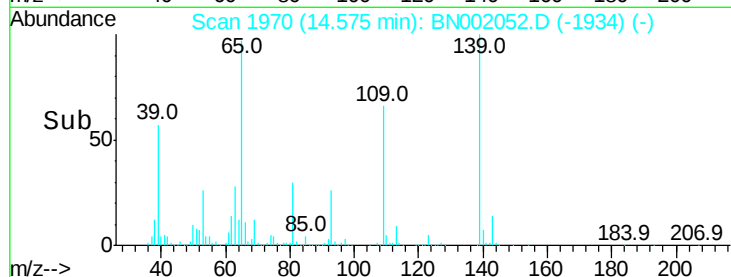
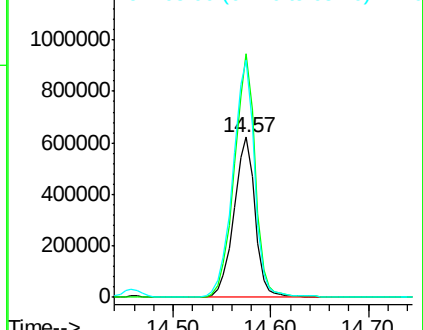
109 100

139 151.9 103.7 155.5

65 147.9 89.4 134.2#



Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BNC



#59

4-Chlorophenyl-phenylether

Concen: 16.159 ng/ul

RT: 15.39 min Scan# 2108

Delta R.T. 0.00 min

Lab File: BN002052.D

Acq: 16 Jul 2018 17:28

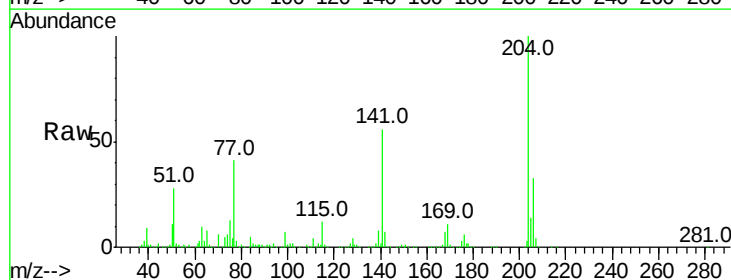
Tgt Ion:204 Resp: 777344

Ion Ratio Lower Upper

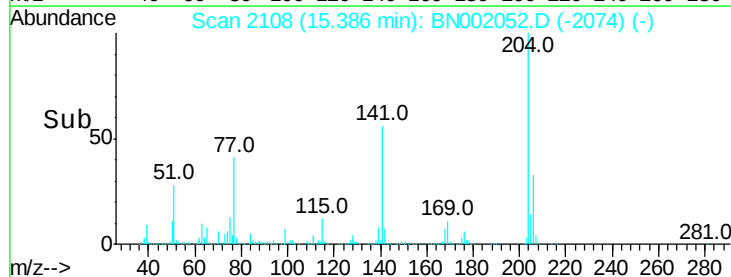
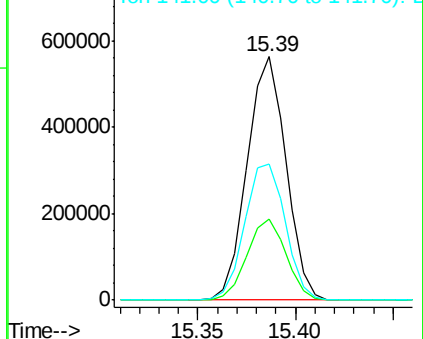
204 100

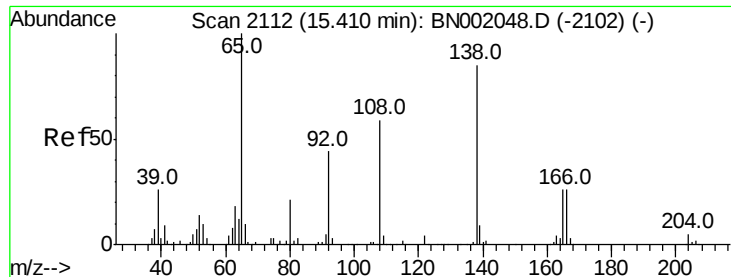
206 33.0 26.2 39.4

141 56.0 54.6 81.8



Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E

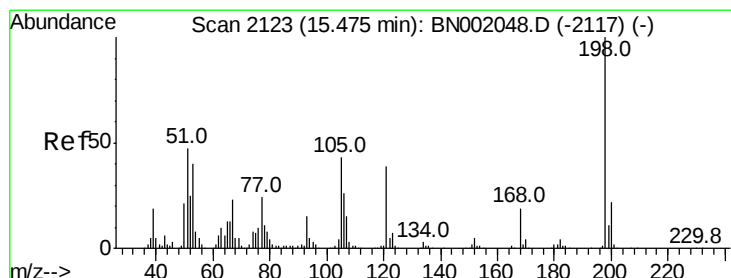
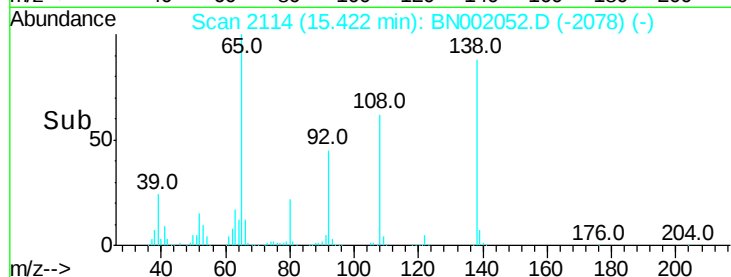
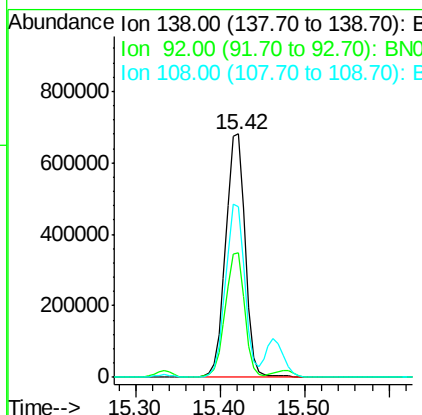
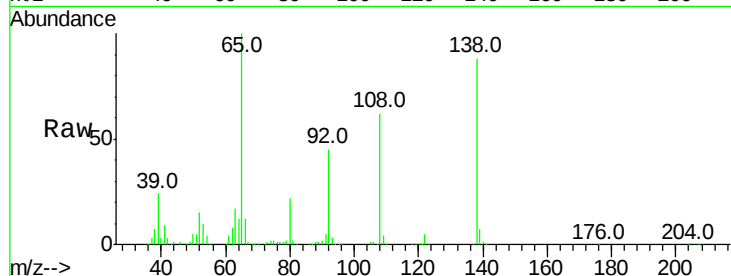




#60
4-Nitroaniline
Concen: 44.104 ng/ul
RT: 15.42 min Scan# 2114
Delta R.T. 0.01 min
Lab File: BN002052.D
Acq: 16 Jul 2018 17:28

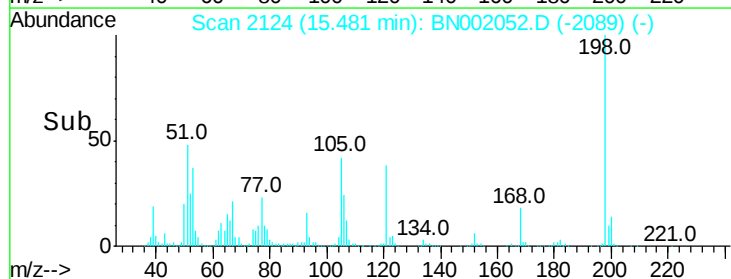
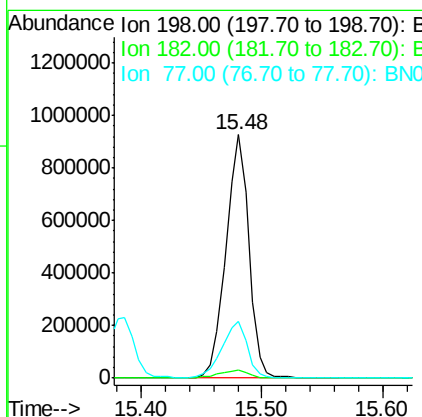
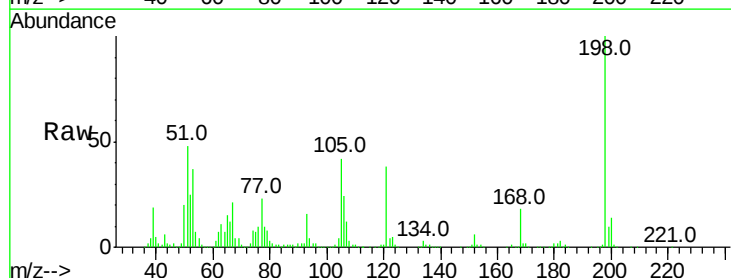
Instrument :
BNA_N
ClientSampleId :

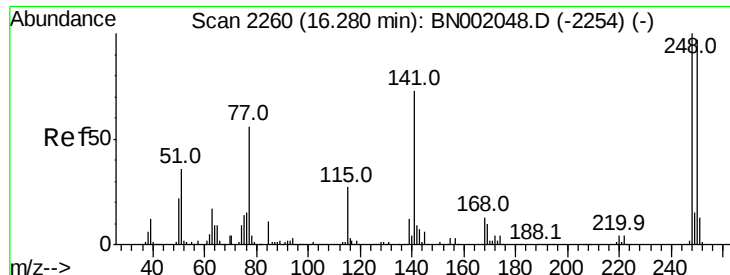
Tot Ion:138 Resp: 1085366
Ion Ratio Lower Upper
138 100
92 51.1 40.6 60.8
108 70.0 67.0 100.6



#63
4,6-Dinitro-2-methylphenol
Concen: 64.779 ng/ul
RT: 15.48 min Scan# 2124
Delta R.T. 0.01 min
Lab File: BN002052.D
Acq: 16 Jul 2018 17:28

Tgt Ion:198 Resp: 1222727
Ion Ratio Lower Upper
198 100
182 3.3 3.1 4.7
77 23.1 20.1 30.1

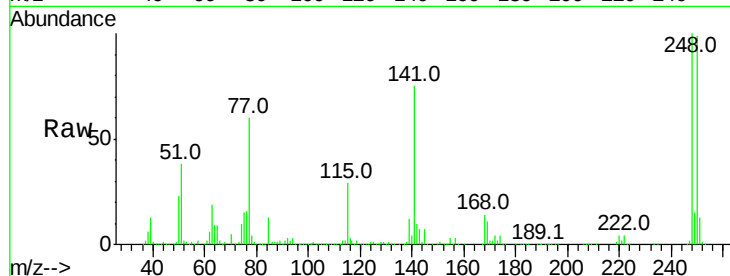




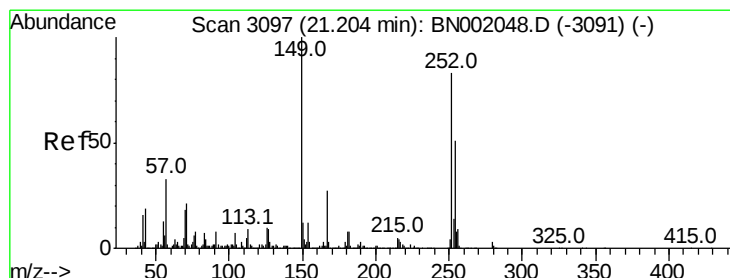
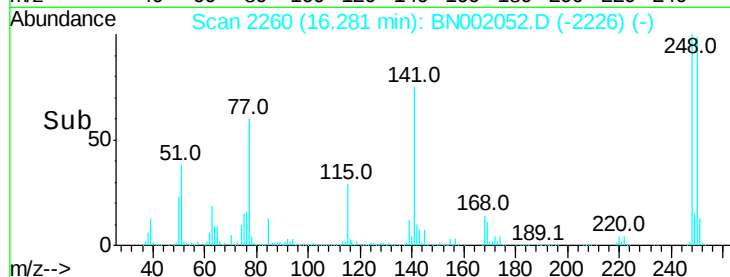
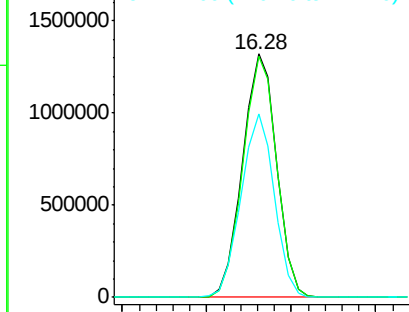
#65
 4-Bromophenyl-phenylether
 Concen: 59.959 ng/ul
 RT: 16.28 min Scan# 2260
 Delta R.T. 0.00 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:248 Resp: 1846686
 Ion Ratio Lower Upper
 248 100
 250 99.0 78.7 118.1
 141 75.4 72.2 108.2

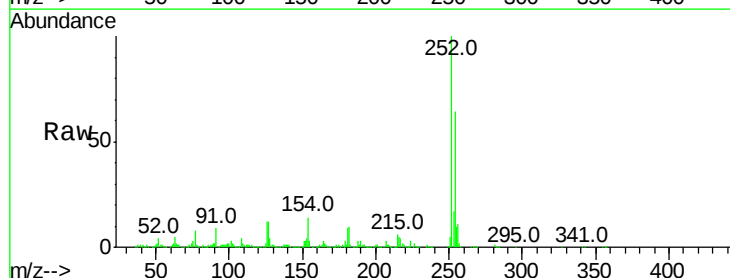


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E



#81
 3,3'-Dichlorobenzidine
 Concen: 27.455 ng/ul
 RT: 21.20 min Scan# 3097
 Delta R.T. 0.00 min
 Lab File: BN002052.D
 Acq: 16 Jul 2018 17:28

Tgt Ion:252 Resp: 1766356
 Ion Ratio Lower Upper
 252 100
 254 64.3 52.2 78.2
 126 12.0 9.4 14.2



Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 254.00 (253.70 to 254.70): E
 Ion 126.00 (125.70 to 126.70): E

