

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN062918\  
 Data File : BN001922.D  
 Acq On : 29 Jun 2018 12:07  
 Operator : JU/SJ  
 Sample : J3661-07  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 X2D25

Quant Time: Jun 29 15:44:23 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN061918.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 26 04:45:44 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.71  | 152  | 622449   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.48 | 136  | 2894941  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.34 | 164  | 1799997  | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.09 | 188  | 4113540  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.29 | 240  | 4277696  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.52 | 264  | 4317217  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 56111   | 3.92  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.88  | 99  | 1530018 | 27.16 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.05  | 67  | 956971  | 27.53 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.25  | 132 | 1221312 | 27.35 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.41  | 113 | 1254068 | 27.79 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.85  | 128 | 633316  | 29.46 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.57  | 143 | 682943  | 30.69 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.10 | 165 | 1398830 | 29.45 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.62 | 131 | 1407759 | 28.62 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.76 | 166 | 4638727 | 30.52 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.03 | 160 | 5391955 | 28.73 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 820629  | 29.31 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.33 | 176 | 3984456 | 29.91 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 685552  | 30.60 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.19 | 188 | 6251589 | 31.46 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.49 | 212 | 7145373 | 33.14 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.39 | 264 | 7589977 | 32.33 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |          |        | Qvalue    |
|--------------------------------|-------|-----|----------|--------|-----------|
| 4) Benzaldehyde                | 6.86  | 77  | 2317581  | 67.391 | ng/ul 91  |
| 10) 2-Chlorophenol             | 7.28  | 128 | 2285556  | 50.559 | ng/ul 100 |
| 14) Acetophenone               | 8.52  | 105 | 3338714  | 48.180 | ng/ul 97  |
| 16) 4-Methylphenol             | 8.46  | 108 | 755497   | 15.956 | ng/ul 93  |
| 17) Hexachloroethane           | 8.78  | 117 | 771878   | 43.304 | ng/ul 84  |
| 27) 2,4-Dichlorophenol         | 10.13 | 162 | 2732187  | 59.207 | ng/ul 98  |
| 28) Naphthalene                | 10.53 | 128 | 7778751  | 50.637 | ng/ul 99  |
| 34) 2-Methylnaphthalene        | 12.15 | 142 | 6006249  | 53.902 | ng/ul 99  |
| 41) 2-Chloronaphthalene        | 13.21 | 162 | 6547556  | 56.101 | ng/ul 96  |
| 49) Acenaphthene               | 14.40 | 153 | 3972994  | 31.620 | ng/ul 98  |
| 58) Fluorene                   | 15.39 | 166 | 5075482  | 35.292 | ng/ul 99  |
| 63) 4,6-Dinitro-2-methylphenol | 15.47 | 198 | 2019093  | 84.901 | ng/ul# 99 |
| 67) Atrazine                   | 16.57 | 200 | 2628570  | 58.587 | ng/ul 99  |
| 69) Phenanthrene               | 17.13 | 178 | 9326758  | 40.249 | ng/ul 98  |
| 72) Carbazole                  | 17.50 | 167 | 12876709 | 65.535 | ng/ul# 94 |
| 77) Pyrene                     | 19.52 | 202 | 12914159 | 48.242 | ng/ul# 79 |
| 78) Butylbenzylphthalate       | 20.43 | 149 | 6298731  | 55.141 | ng/ul 93  |
| 81) Bis(2-ethylhexyl)phthalate | 21.22 | 149 | 8358828  | 49.071 | ng/ul 97  |
| 89) Indeno(1,2,3-cd)pyrene     | 25.78 | 276 | 14976751 | 55.237 | ng/ul# 86 |
| 90) Dibenzo(a,h)anthracene     | 25.79 | 278 | 9909901  | 43.916 | ng/ul# 95 |
| 91) Benzo(g,h,i)perylene       | 26.46 | 276 | 9821246  | 43.911 | ng/ul# 91 |

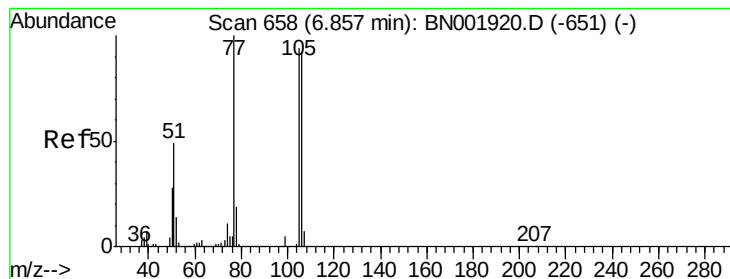
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN062918\  
Data File : BN001922.D  
Acq On : 29 Jun 2018 12:07  
Operator : JU/SJ  
Sample : J3661-07  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
X2D25

Quant Time: Jun 29 15:44:23 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN061918.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 26 04:45:44 2018  
Response via : Initial Calibration

| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |





#4

Benzaldehyde

Concen: 67.391 ng/ul

RT: 6.86 min Scan# 658

Delta R.T. 0.00 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampled :

X2D25

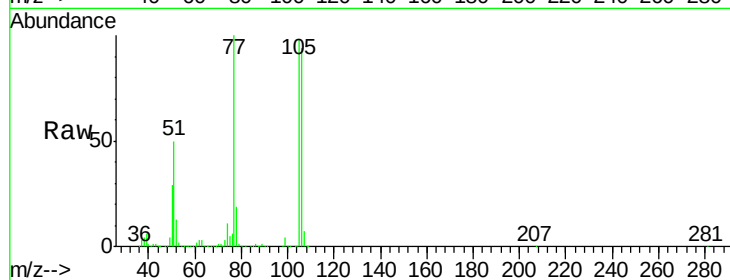
Tgt Ion: 77 Resp: 2317581

Ion Ratio Lower Upper

77 100

105 97.5 71.0 106.6

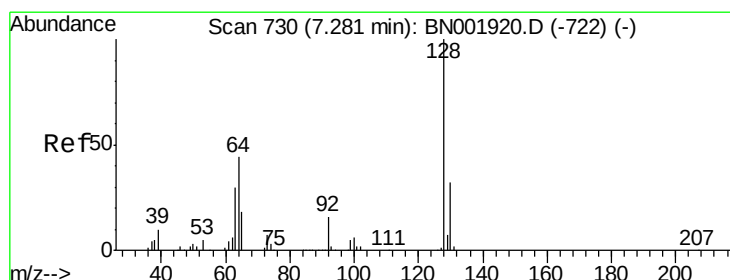
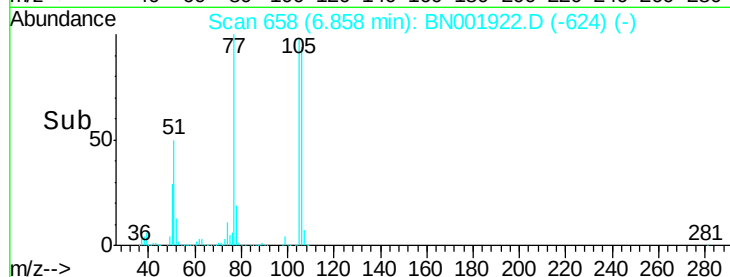
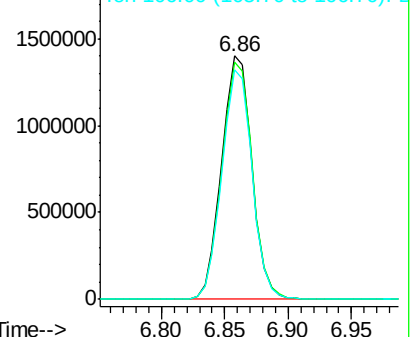
106 94.2 69.5 104.3



Abundance Ion 77.00 (76.70 to 77.70): BN001922.D (-651) (-)

Ion 105.00 (104.70 to 105.70): BN001922.D (-651) (-)

Ion 106.00 (105.70 to 106.70): BN001922.D (-651) (-)



#10

2-Chlorophenol

Concen: 50.559 ng/ul

RT: 7.28 min Scan# 729

Delta R.T. 0.00 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

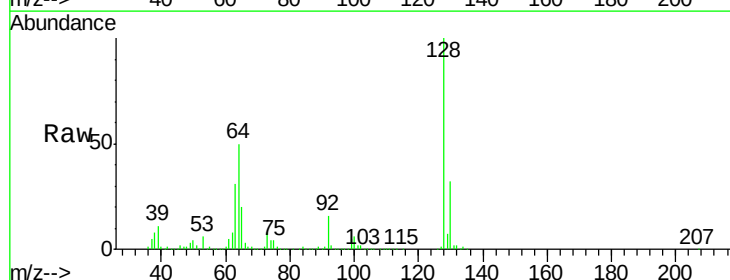
Tgt Ion: 128 Resp: 2285556

Ion Ratio Lower Upper

128 100

64 49.6 39.8 59.6

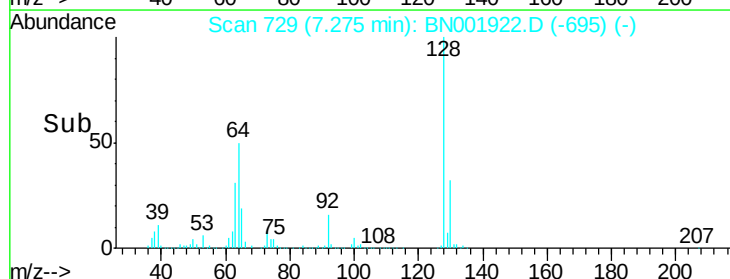
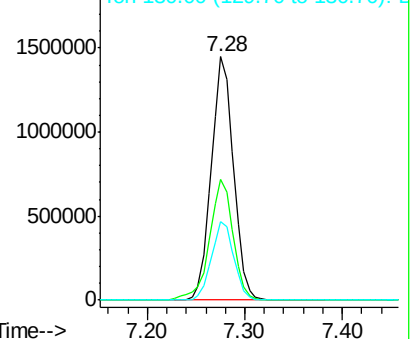
130 32.2 25.8 38.8

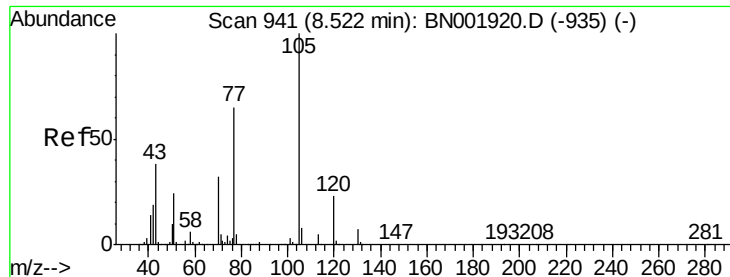


Abundance Ion 128.00 (127.70 to 128.70): BN001922.D (-722) (-)

Ion 64.00 (63.70 to 64.70): BN001922.D (-722) (-)

Ion 130.00 (129.70 to 130.70): BN001922.D (-722) (-)





#14

Acetophenone

Concen: 48.180 ng/ul

RT: 8.52 min Scan# 941

Delta R.T. 0.00 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampleId :

X2D25

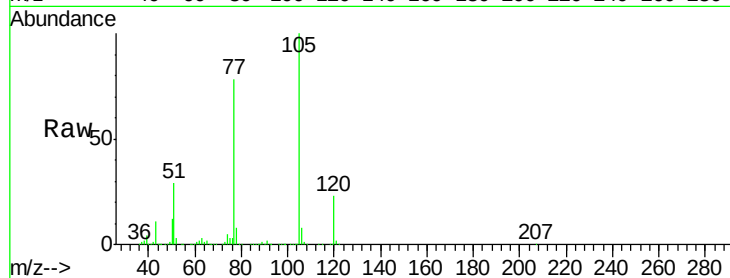
Tgt Ion:105 Resp: 3338714

Ion Ratio Lower Upper

105 100

77 77.9 63.2 94.8

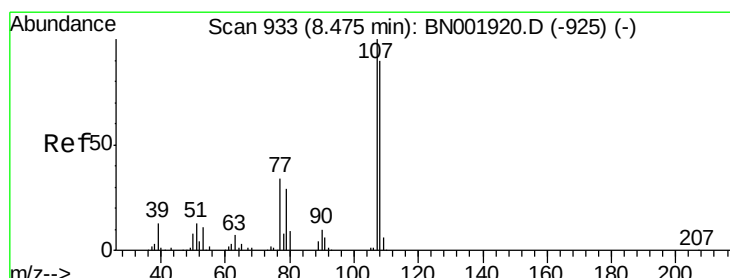
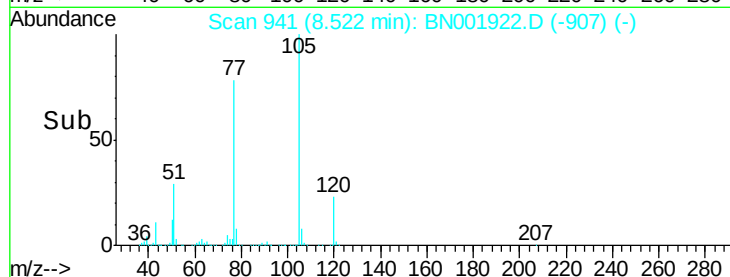
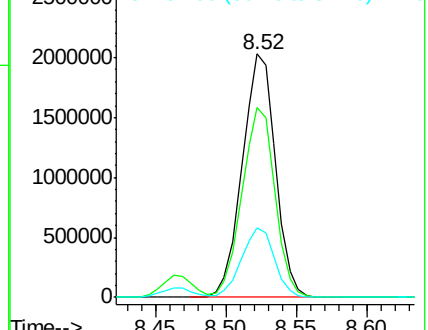
51 28.6 19.8 29.8



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BNO

Ion 51.00 (50.70 to 51.70): BNO



#16

4-Methylphenol

Concen: 15.956 ng/ul

RT: 8.46 min Scan# 931

Delta R.T. -0.01 min

Lab File: BN001922.D

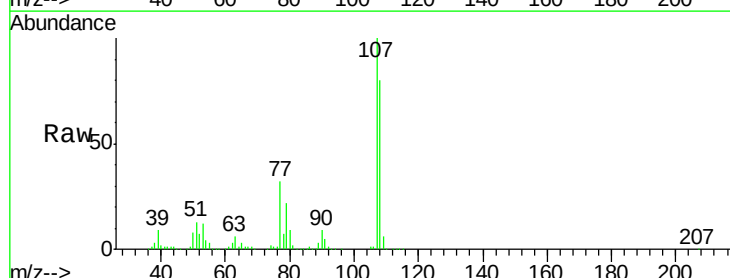
Acq: 29 Jun 2018 12:07

Tgt Ion:108 Resp: 755497

Ion Ratio Lower Upper

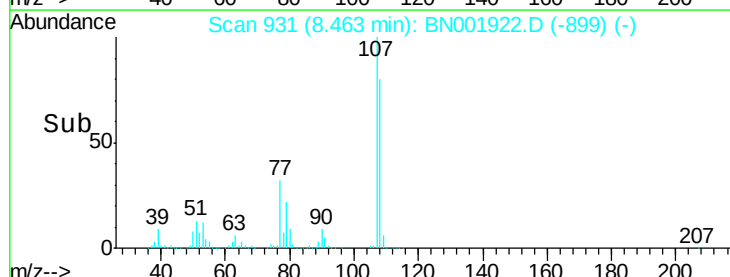
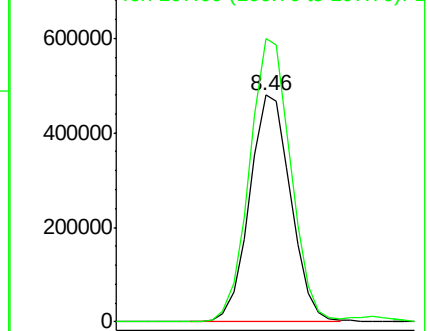
108 100

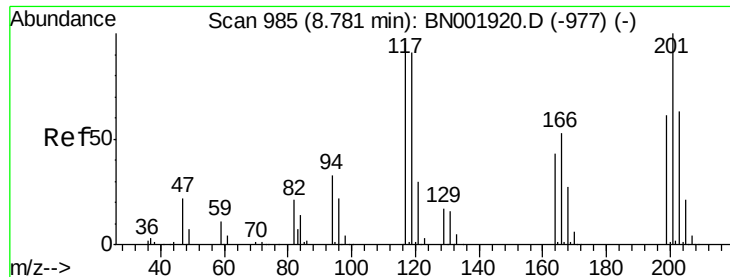
107 124.7 93.6 140.4



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E





#17

Hexachloroethane

Concen: 43.304 ng/ul

RT: 8.78 min Scan# 984

Delta R.T. -0.01 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampleId :

X2D25

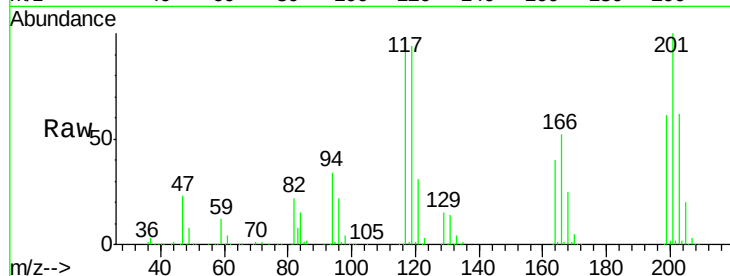
Tgt Ion:117 Resp: 771878

Ion Ratio Lower Upper

117 100

201 102.0 96.1 144.1

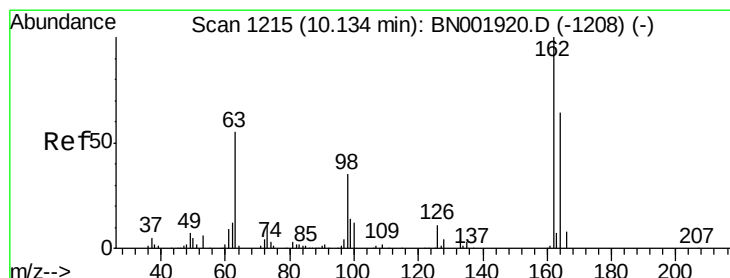
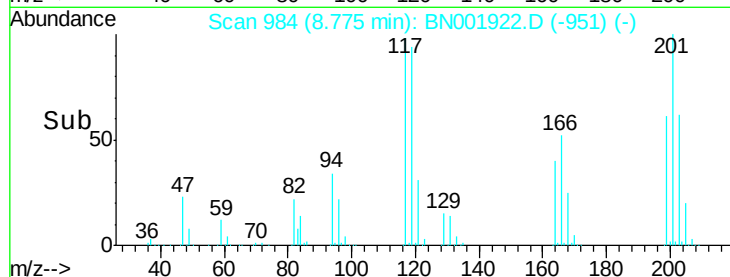
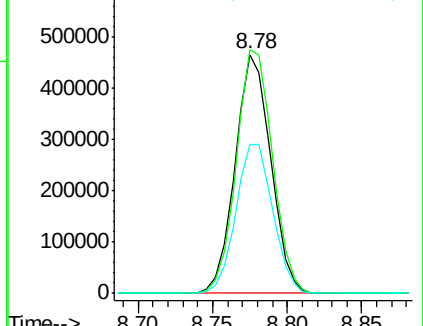
199 62.4 59.7 89.5



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



#27

2,4-Dichlorophenol

Concen: 59.207 ng/ul

RT: 10.13 min Scan# 1215

Delta R.T. 0.00 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

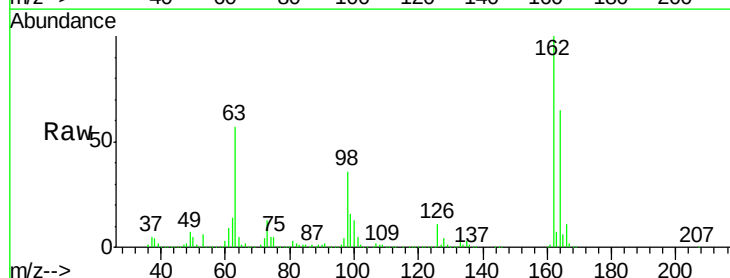
Tgt Ion:162 Resp: 2732187

Ion Ratio Lower Upper

162 100

164 65.4 52.0 78.0

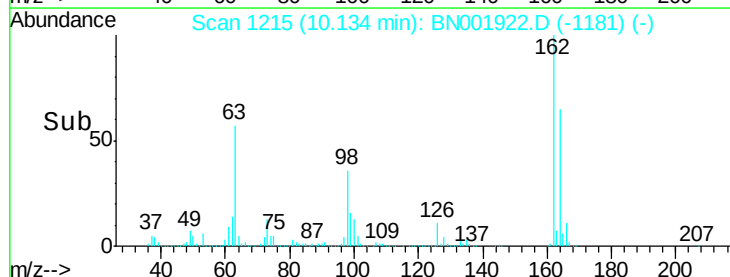
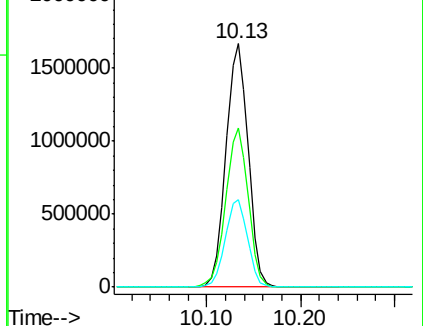
98 36.0 26.6 39.8

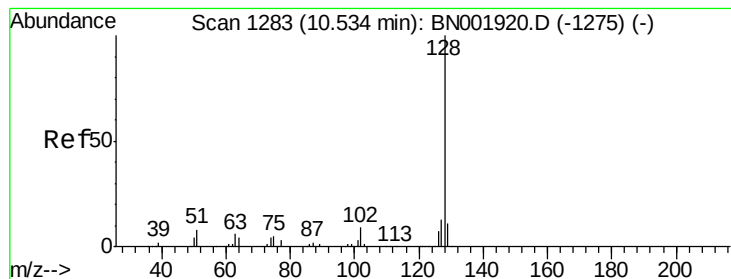


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BNC





#28

Naphthalene

Concen: 50.637 ng/ul

RT: 10.53 min Scan# 1283

Delta R.T. 0.00 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampleId :

X2D25

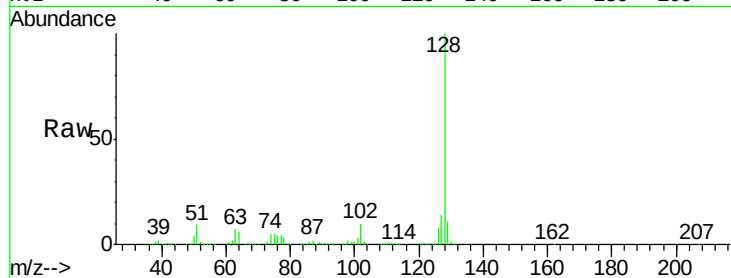
Tgt Ion:128 Resp: 7778751

Ion Ratio Lower Upper

128 100

129 11.5 8.3 12.5

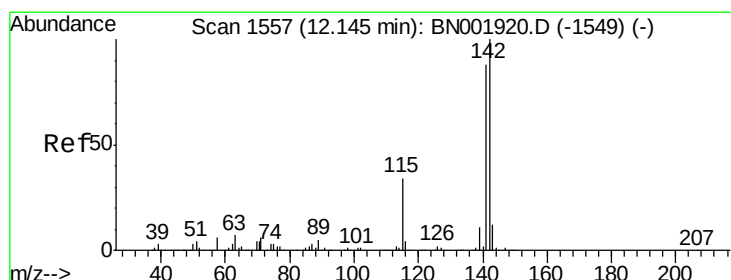
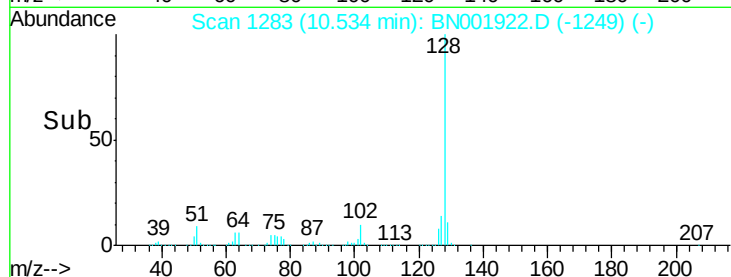
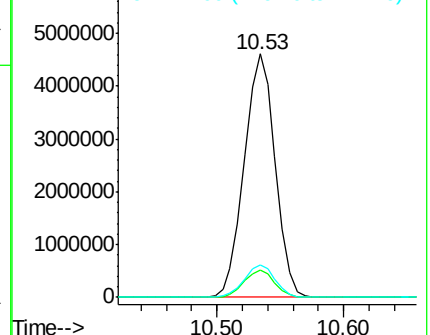
127 13.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 53.902 ng/ul

RT: 12.15 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BN001922.D

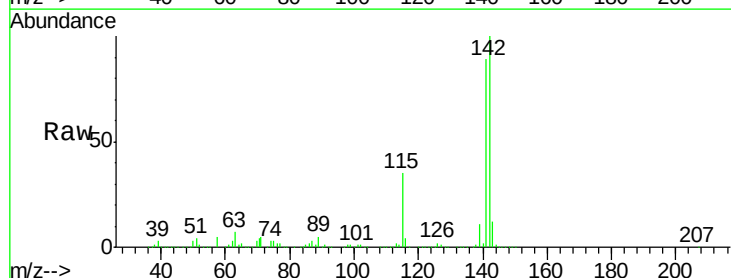
Acq: 29 Jun 2018 12:07

Tgt Ion:142 Resp: 6006249

Ion Ratio Lower Upper

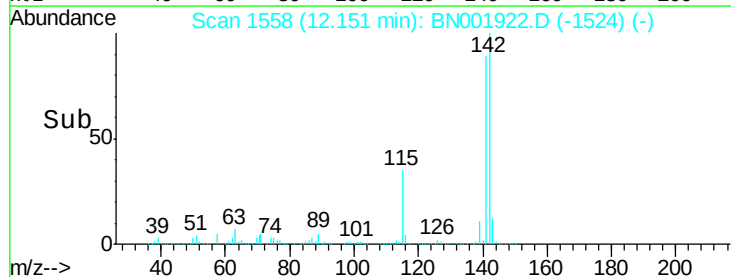
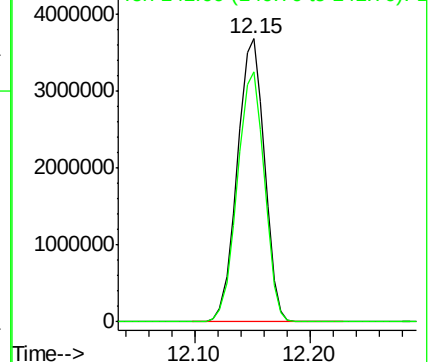
142 100

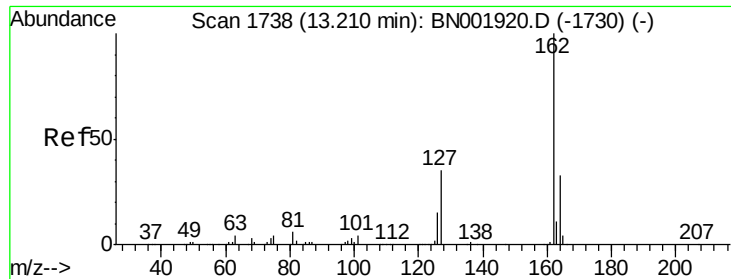
141 88.5 71.4 107.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

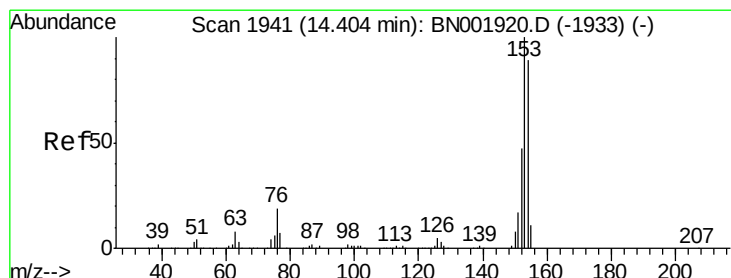
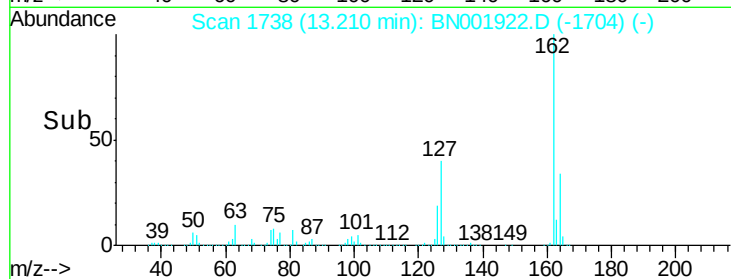
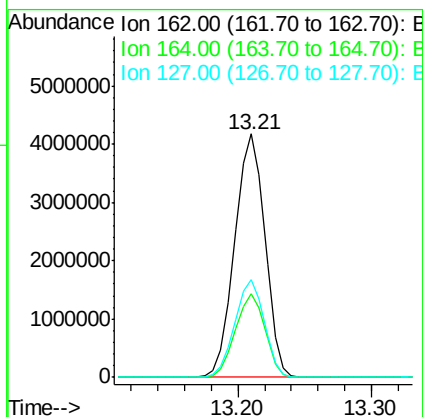
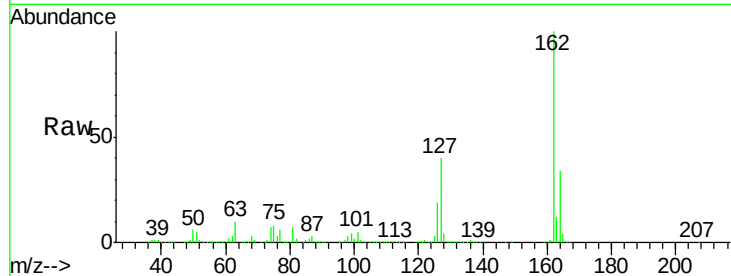




#41  
2-Chloronaphthalene  
Concen: 56.101 ng/ul  
RT: 13.21 min Scan# 1738  
Delta R.T. 0.00 min  
Lab File: BN001922.D  
Acq: 29 Jun 2018 12:07

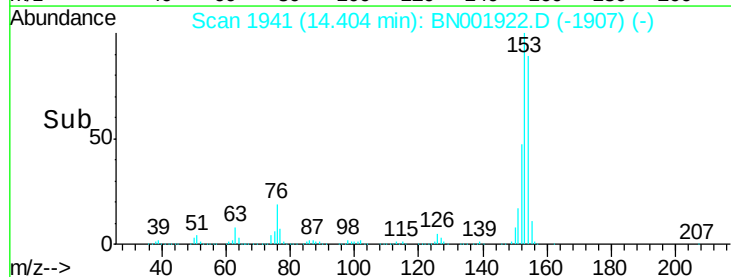
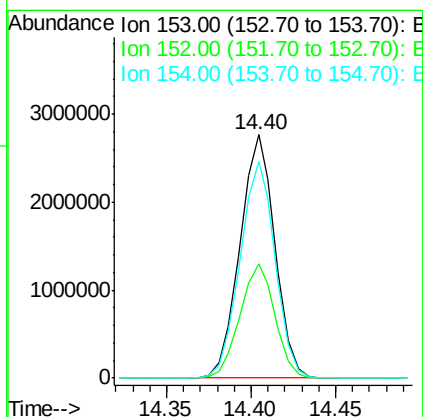
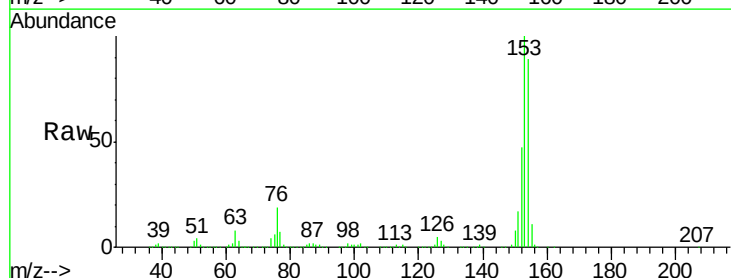
Instrument :  
BNA\_N  
ClientSampled :  
X2D25

Tgt Ion:162 Resp: 6547556  
Ion Ratio Lower Upper  
162 100  
164 34.2 26.2 39.4  
127 39.9 29.5 44.3

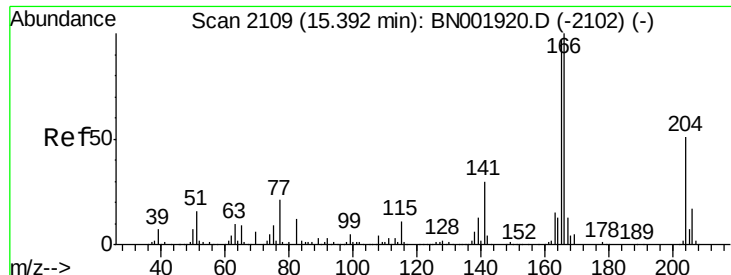


#49  
Acenaphthene  
Concen: 31.620 ng/ul  
RT: 14.40 min Scan# 1941  
Delta R.T. 0.00 min  
Lab File: BN001922.D  
Acq: 29 Jun 2018 12:07

Tgt Ion:153 Resp: 3972994  
Ion Ratio Lower Upper  
153 100  
152 47.0 37.9 56.9  
154 89.2 69.8 104.6







#58

Fluorene

Concen: 35.292 ng/ul

RT: 15.39 min Scan# 2109

Delta R.T. 0.00 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampleId :

X2D25

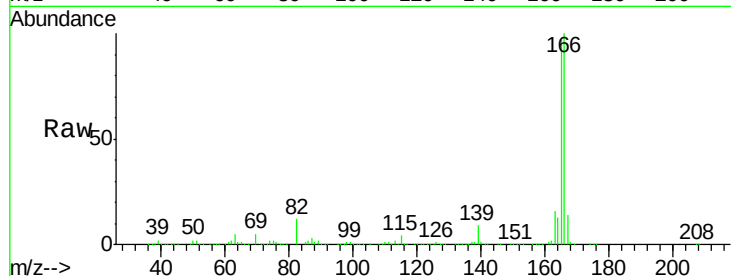
Tgt Ion:166 Resp: 5075482

Ion Ratio Lower Upper

166 100

165 96.7 78.4 117.6

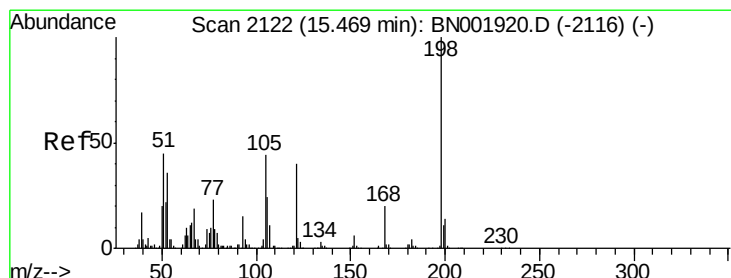
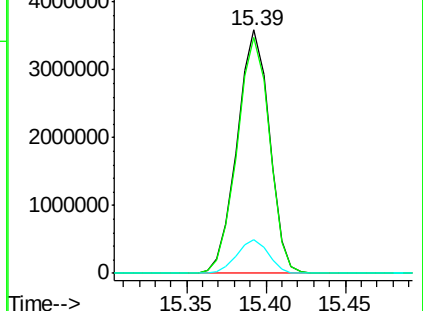
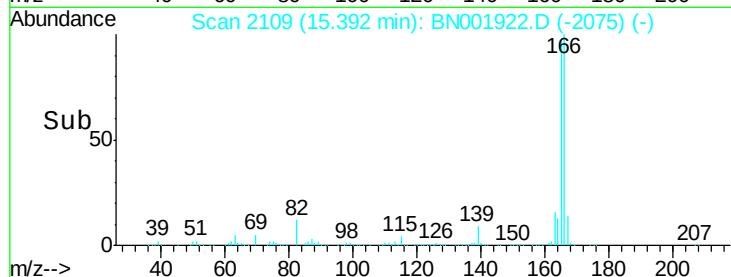
167 13.7 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

4,6-Dinitro-2-methylphenol

Concen: 84.901 ng/ul

RT: 15.47 min Scan# 2123

Delta R.T. 0.01 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

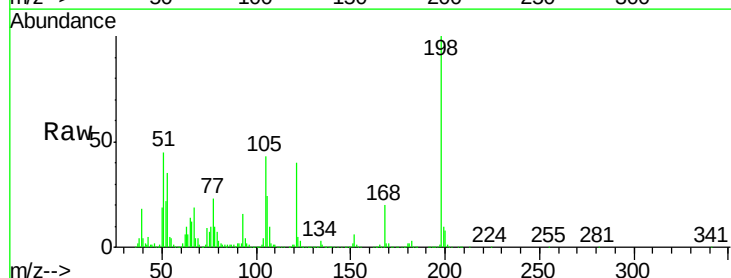
Tgt Ion:198 Resp: 2019093

Ion Ratio Lower Upper

198 100

182 3.2 3.5 5.3#

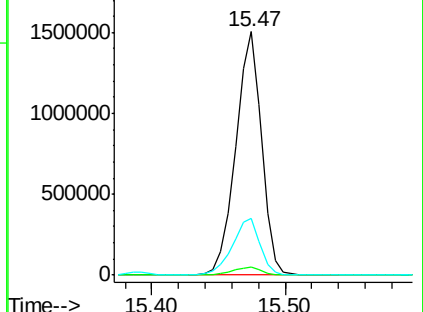
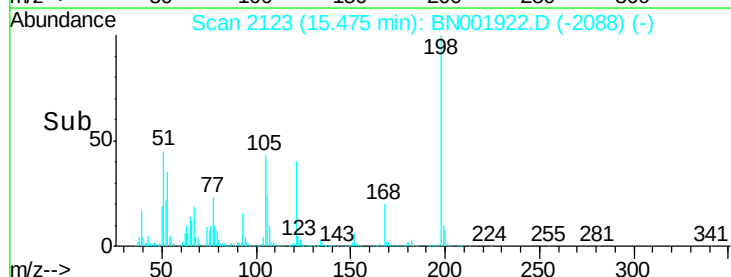
77 23.2 18.2 27.4

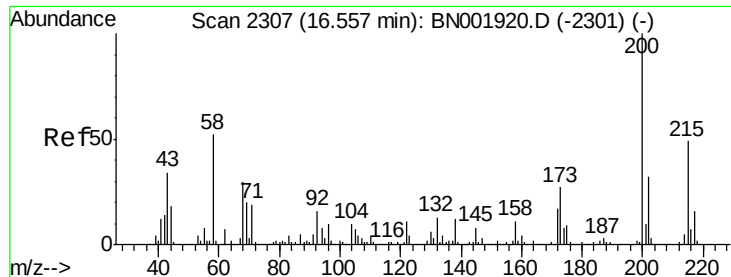


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BNC

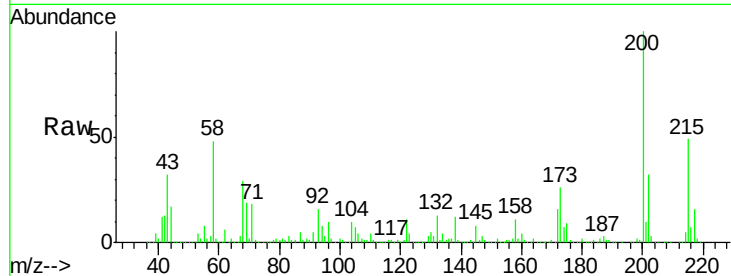




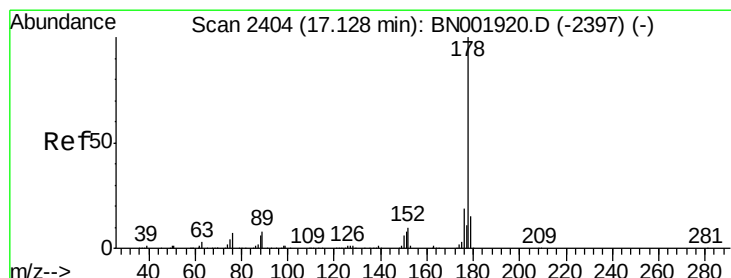
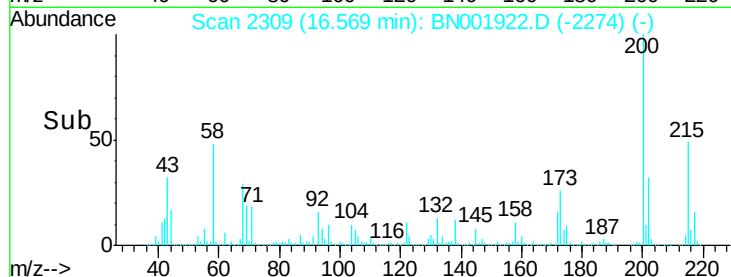
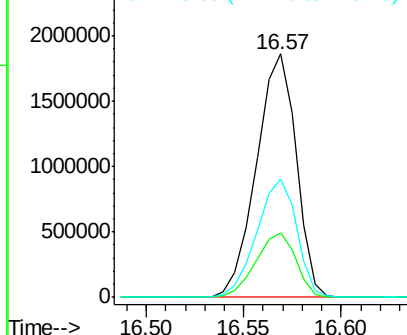
#67  
 Atrazine  
 Concen: 58.587 ng/ul  
 RT: 16.57 min Scan# 2309  
 Delta R.T. 0.01 min  
 Lab File: BN001922.D  
 Acq: 29 Jun 2018 12:07

Instrument :  
 BNA\_N  
 ClientSampled :  
 X2D25

Tgt Ion:200 Resp: 2628570  
 Ion Ratio Lower Upper  
 200 100  
 173 26.4 20.6 31.0  
 215 48.7 39.8 59.6

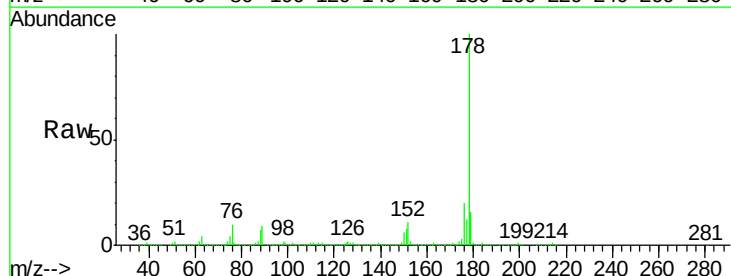


Abundance Ion 200.00 (199.70 to 200.70): E  
 Ion 173.00 (172.70 to 173.70): E  
 Ion 215.00 (214.70 to 215.70): E

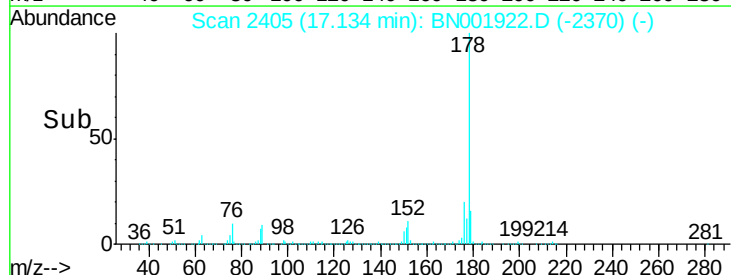
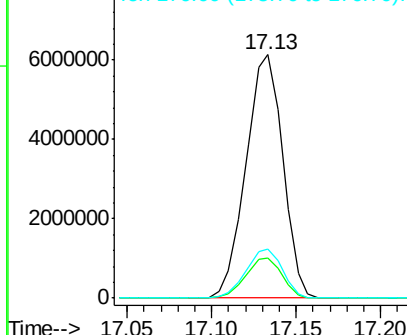


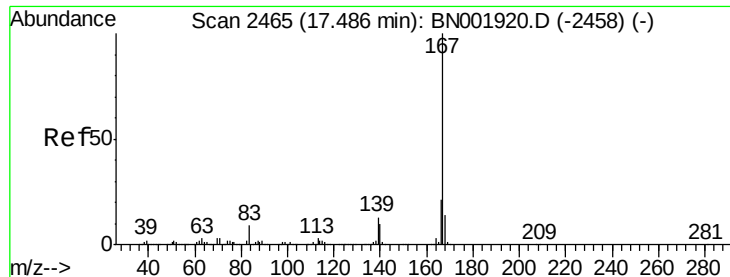
#69  
 Phenanthrene  
 Concen: 40.249 ng/ul  
 RT: 17.13 min Scan# 2405  
 Delta R.T. 0.01 min  
 Lab File: BN001922.D  
 Acq: 29 Jun 2018 12:07

Tgt Ion:178 Resp: 9326758  
 Ion Ratio Lower Upper  
 178 100  
 179 16.2 12.3 18.5  
 176 20.2 15.4 23.0



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 65.535 ng/ul

RT: 17.50 min Scan# 2467

Delta R.T. 0.01 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampleId :

X2D25

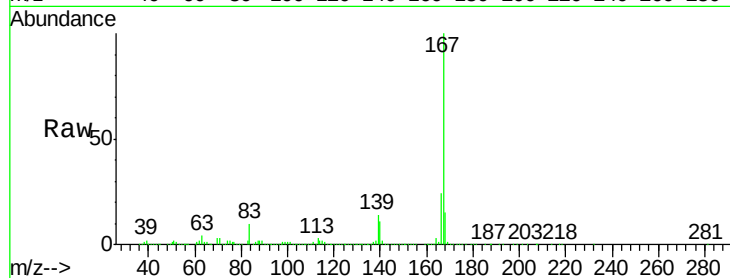
Tgt Ion:167 Resp:12876709

Ion Ratio Lower Upper

167 100

166 23.6 17.0 25.4

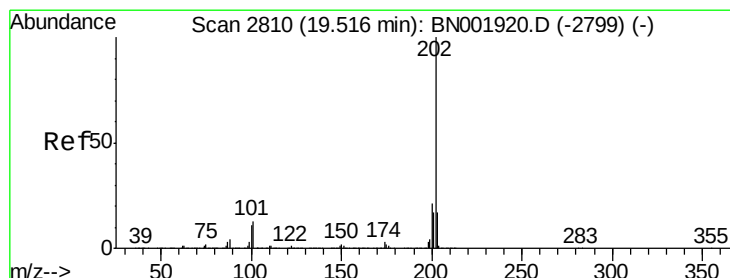
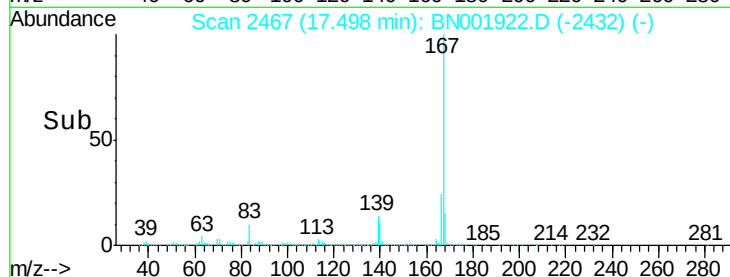
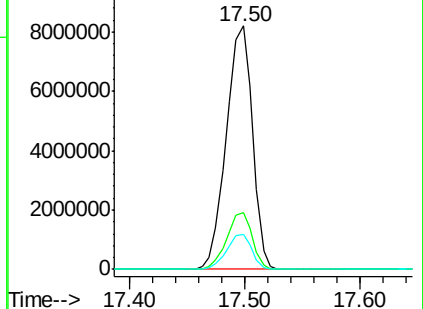
139 14.5 9.1 13.7#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#77

Pyrene

Concen: 48.242 ng/ul

RT: 19.52 min Scan# 2811

Delta R.T. 0.01 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

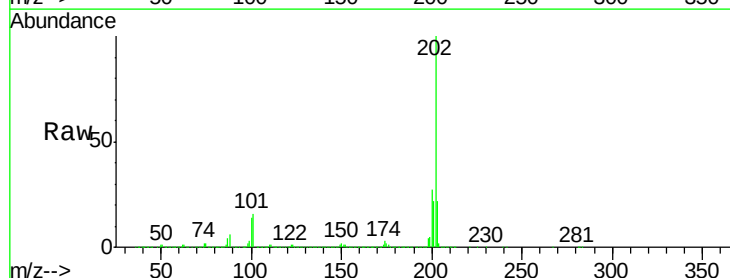
Tgt Ion:202 Resp:12914159

Ion Ratio Lower Upper

202 100

101 16.3 6.9 10.3#

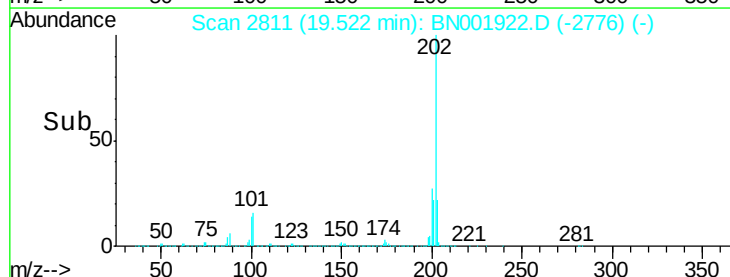
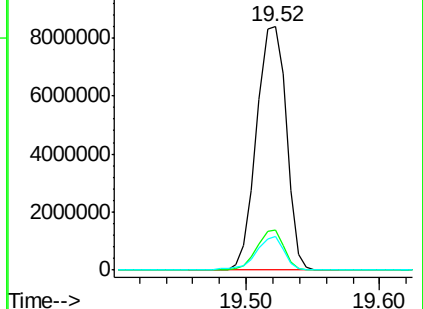
100 13.7 5.6 8.4#

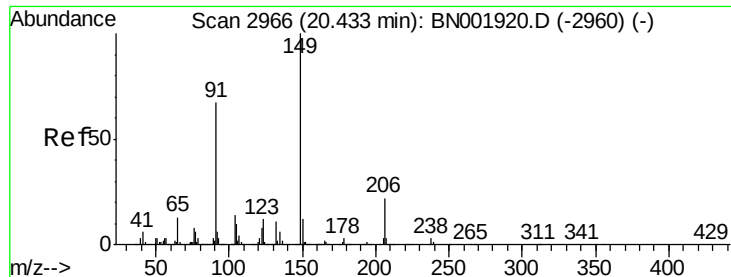


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#78

Butylbenzylphthalate

Concen: 55.141 ng/ul

RT: 20.43 min Scan# 2966

Delta R.T. 0.00 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampleId :

X2D25

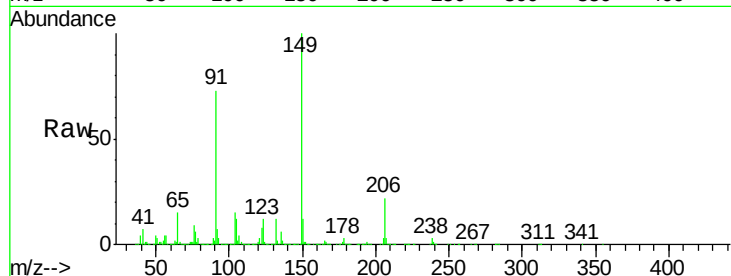
Tgt Ion:149 Resp: 6298731

Ion Ratio Lower Upper

149 100

91 72.8 53.4 80.0

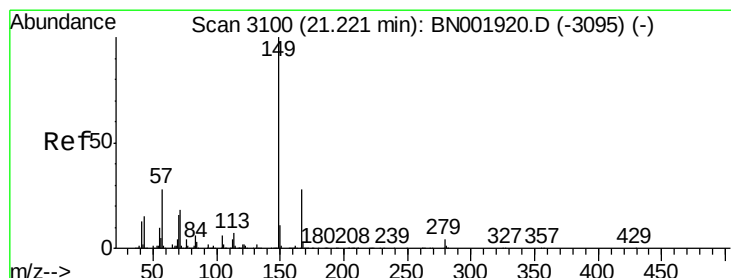
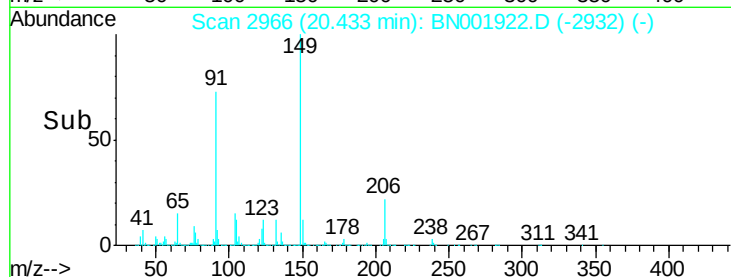
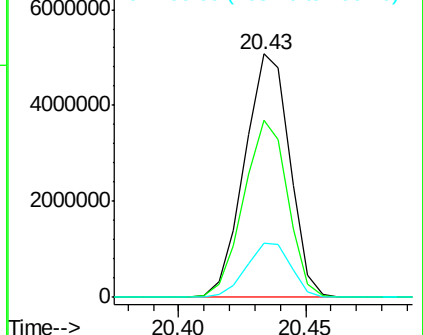
206 22.3 19.3 28.9



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BNO

Ion 206.00 (205.70 to 206.70): E



#81

Bis(2-ethylhexyl)phthalate

Concen: 49.071 ng/ul

RT: 21.22 min Scan# 3100

Delta R.T. -0.01 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

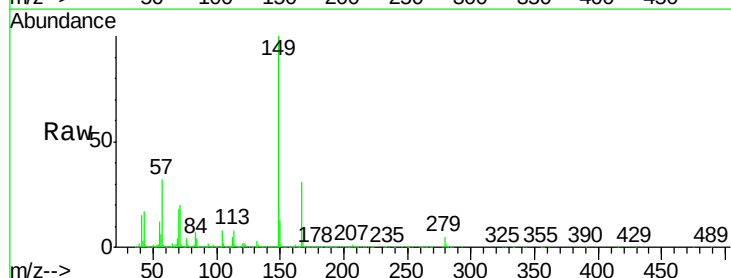
Tgt Ion:149 Resp: 8358828

Ion Ratio Lower Upper

149 100

167 30.8 23.0 34.6

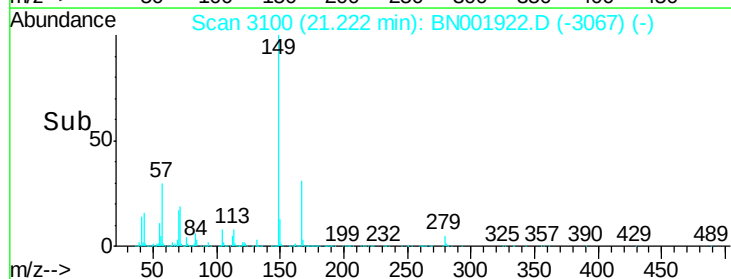
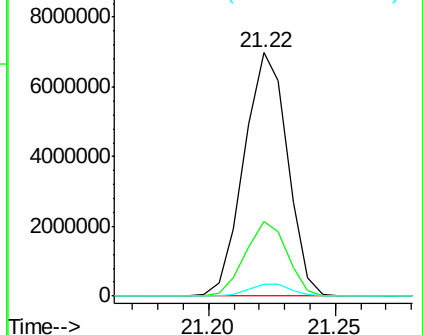
279 4.9 4.3 6.5

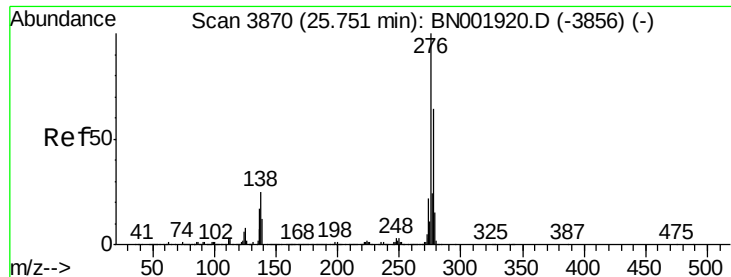


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



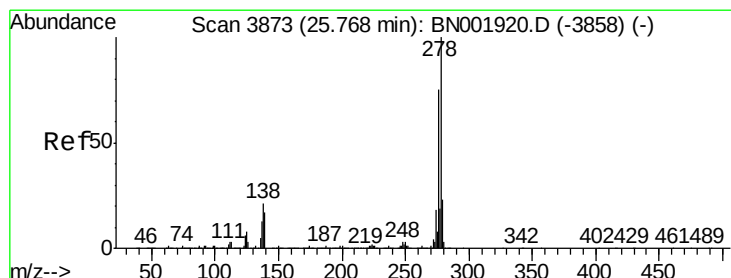
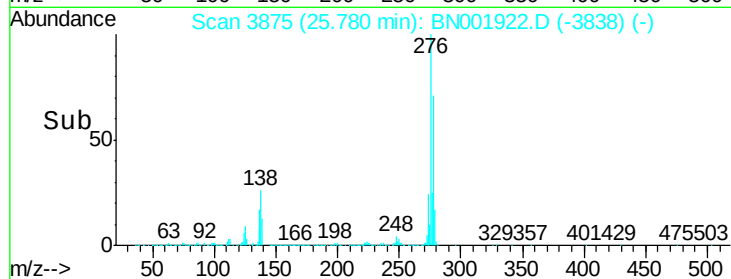
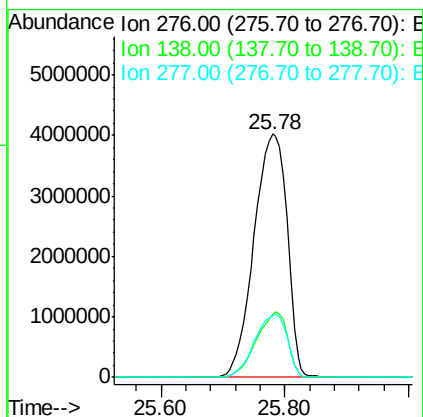
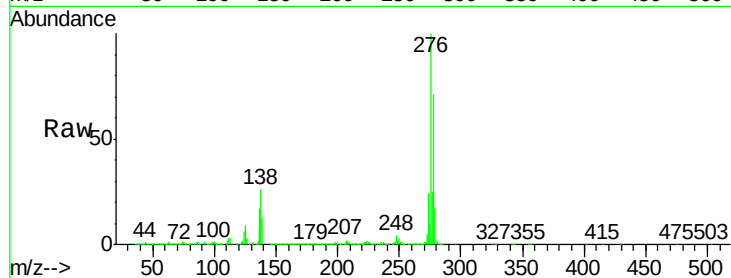


#89

Indeno(1,2,3-cd)pyrene  
Concen: 55.237 ng/ul  
RT: 25.78 min Scan# 3875  
Delta R.T. 0.02 min  
Lab File: BN001922.D  
Acq: 29 Jun 2018 12:07

Instrument :  
BNA\_N  
ClientSampleId :  
X2D25

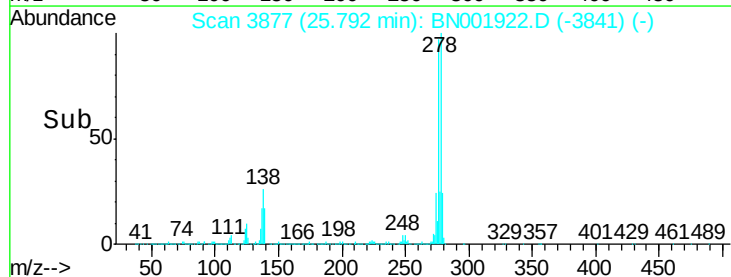
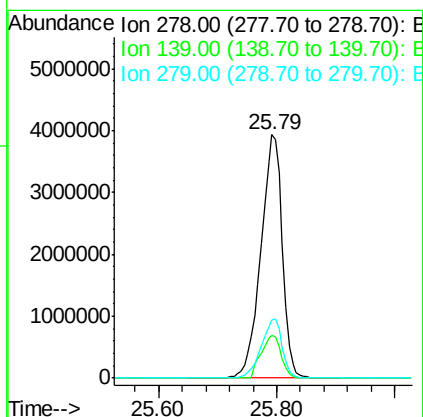
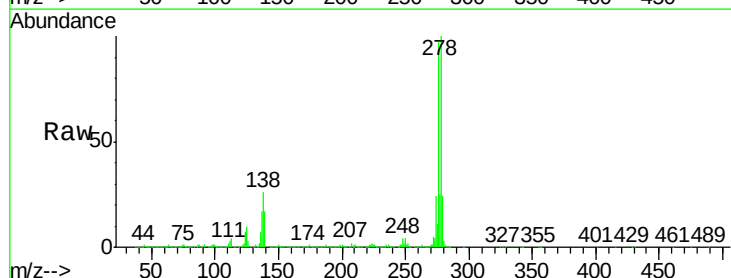
Tgt Ion:276 Resp:14976751  
Ion Ratio Lower Upper  
276 100  
138 25.9 10.9 16.3#  
277 25.4 18.9 28.3

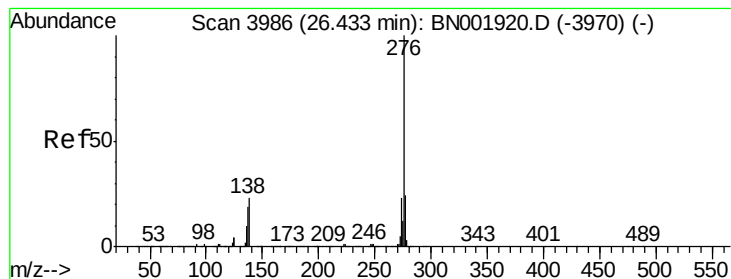


#90

Dibenzo(a,h)anthracene  
Concen: 43.916 ng/ul  
RT: 25.79 min Scan# 3877  
Delta R.T. 0.01 min  
Lab File: BN001922.D  
Acq: 29 Jun 2018 12:07

Tgt Ion:278 Resp: 9909901  
Ion Ratio Lower Upper  
278 100  
139 17.4 9.0 13.4#  
279 24.0 19.1 28.7





#91

Benzo(g,h,i)perylene

Concen: 43.911 ng/ul

RT: 26.46 min Scan# 3990

Delta R.T. 0.01 min

Lab File: BN001922.D

Acq: 29 Jun 2018 12:07

Instrument :

BNA\_N

ClientSampleId :

X2D25

Tgt Ion:276 Resp: 9821246

Ion Ratio Lower Upper

276 100

138 23.4 11.2 16.8#

277 24.4 19.0 28.6

