

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053117\  
 Data File : BF095575.D  
 Acq On : 31 May 2017 21:12  
 Operator : SJ/MA  
 Sample : I3341-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 01 01:36:40 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 26 16:50:16 2017  
 Response via : Initial Calibration

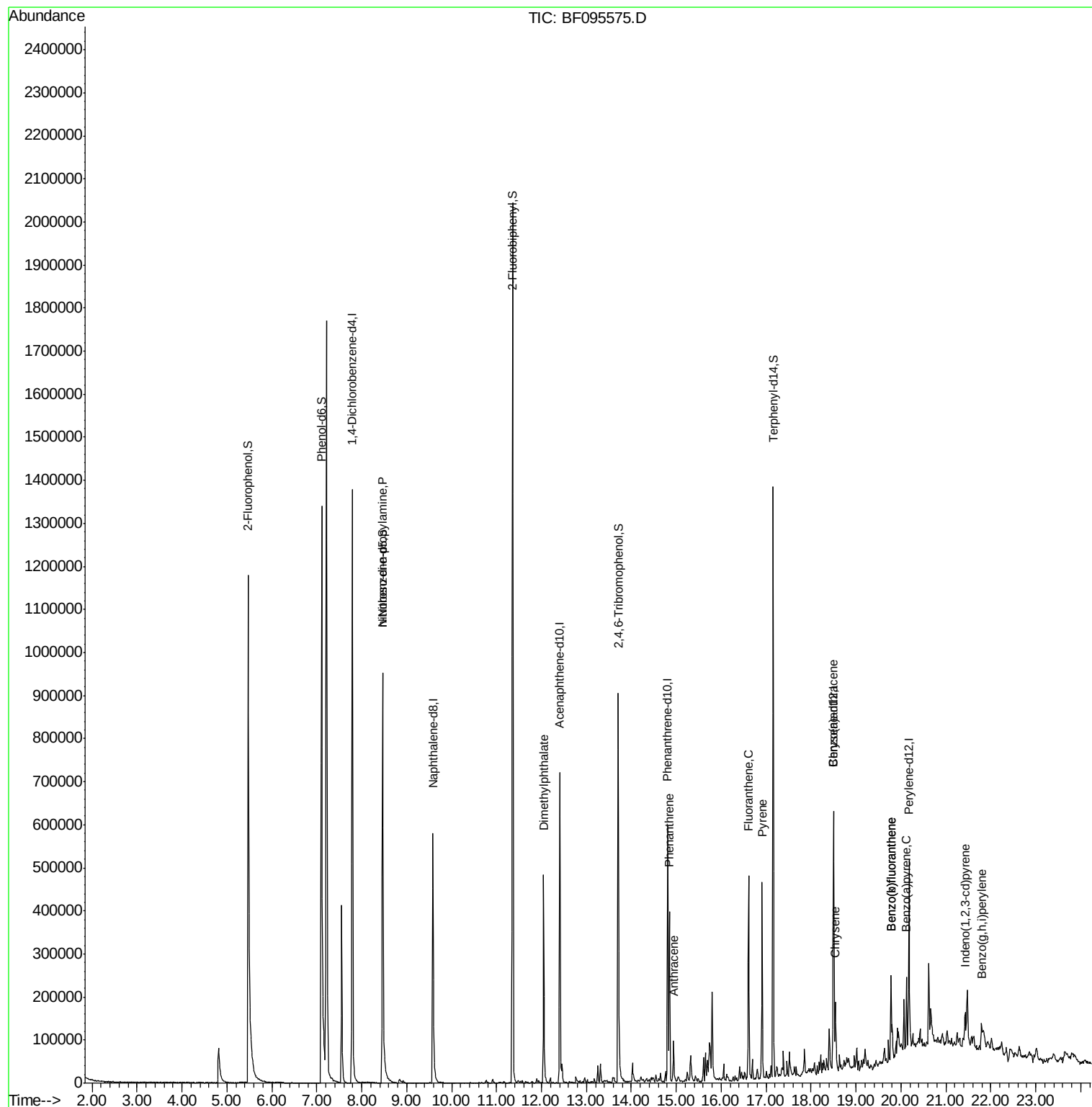
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.79  | 152  | 319674   | 20.00 | ng    | 0.05     |
| 21) Naphthalene-d8             | 9.58  | 136  | 436742   | 20.00 | ng    | -0.18    |
| 38) Acenaphthene-d10           | 12.41 | 164  | 192947   | 20.00 | ng    | -0.19    |
| 63) Phenanthrene-d10           | 14.81 | 188  | 298325   | 20.00 | ng    | -0.19    |
| 75) Chrysene-d12               | 18.50 | 240  | 199588   | 20.00 | ng    | -0.18    |
| 86) Perylene-d12               | 20.18 | 264  | 173331   | 20.00 | ng    | -0.18    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 736360   | 38.40 | ng    | -0.24    |
| 7) Phenol-d6                   | 7.11  | 99   | 909259   | 39.52 | ng    | -0.19    |
| 23) Nitrobenzene-d5            | 8.47  | 82   | 527786   | 76.20 | ng    | -0.19    |
| 41) 2,4,6-Tribromophenol       | 13.71 | 330  | 154741   | 97.93 | ng    | -0.19    |
| 44) 2-Fluorobiphenyl           | 11.36 | 172  | 889309   | 66.34 | ng    | -0.18    |
| 78) Terphenyl-d14              | 17.15 | 244  | 514190   | 56.74 | ng    | -0.17    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 8.47  | 70   | 67349    | 4.33  | ng    | # 76     |
| 49) Dimethylphthalate          | 12.05 | 163  | 293915   | 18.56 | ng    | 99       |
| 70) Phenanthrene               | 14.85 | 178  | 218301   | 12.74 | ng    | 99       |
| 71) Anthracene                 | 14.94 | 178  | 56743    | 3.24  | ng    | 95       |
| 74) Fluoranthene               | 16.61 | 202  | 242290   | 13.78 | ng    | 99       |
| 77) Pyrene                     | 16.91 | 202  | 192894   | 12.92 | ng    | 96       |
| 80) Benzo(a)anthracene         | 18.49 | 228  | 92170    | 7.93  | ng    | 98       |
| 82) Chrysene                   | 18.54 | 228  | 84416    | 7.52  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.43 | 276  | 41560    | 4.56  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 19.78 | 252  | 95180    | 8.89  | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 19.78 | 252  | 95180    | 9.21  | ng    | 96       |
| 89) Benzo(a)pyrene             | 20.12 | 252  | 70852    | 7.17  | ng    | 97       |
| 91) Benzo(a,h,i)perylene       | 21.79 | 276  | 41173    | 5.14  | ng    | 97       |

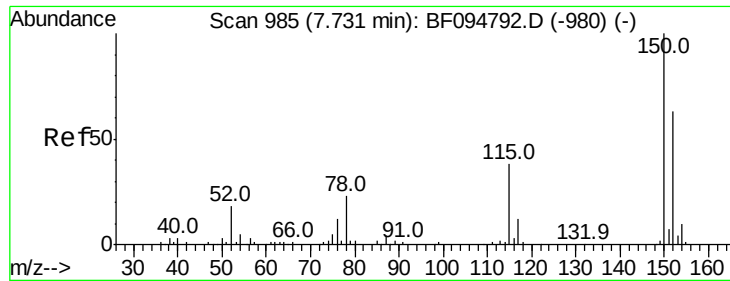
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053117\  
Data File : BF095575.D  
Acq On : 31 May 2017 21:12  
Operator : SJ/MA  
Sample : I3341-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jun 01 01:36:40 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 26 16:50:16 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.79 min Scan# 1012

Delta R.T. 0.05 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Instrument :

BNA\_F

ClientSampled :

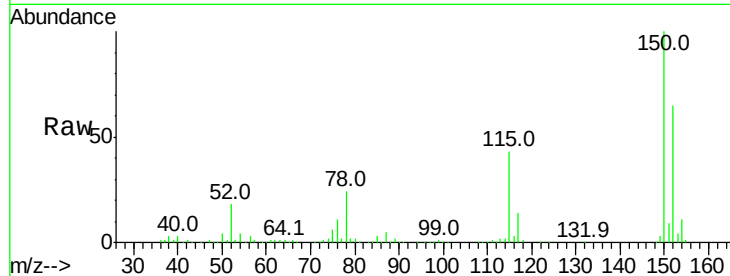
Tot Ion:152 Resp: 319674

Ion Ratio Lower Upper

152 100

150 154.9 126.2 189.2

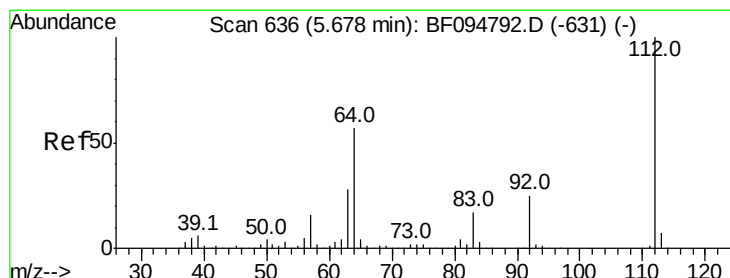
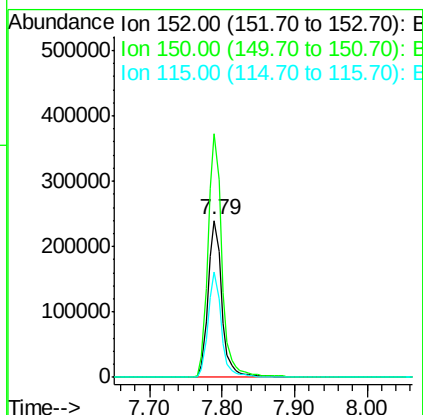
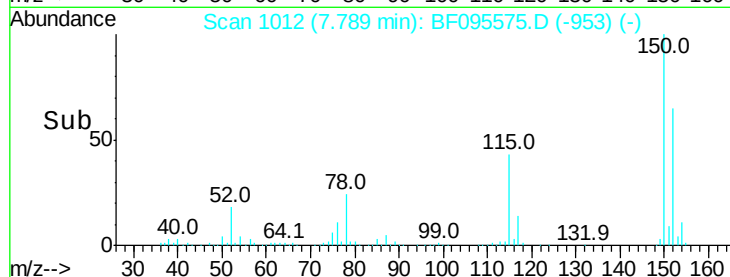
115 67.1 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 38.40 ng

RT: 5.47 min Scan# 618

Delta R.T. -0.24 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

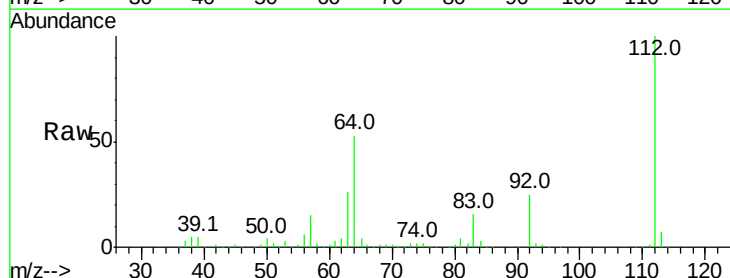
Tgt Ion:112 Resp: 736360

Ion Ratio Lower Upper

112 100

64 53.4 46.0 69.0

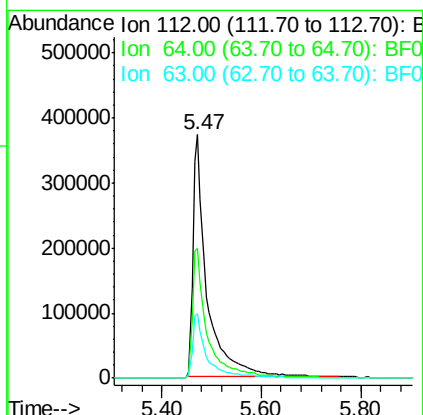
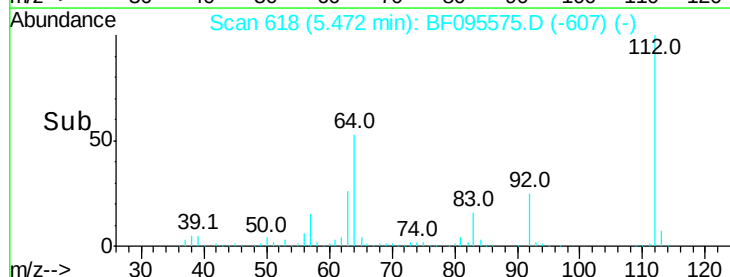
63 26.2 23.4 35.0

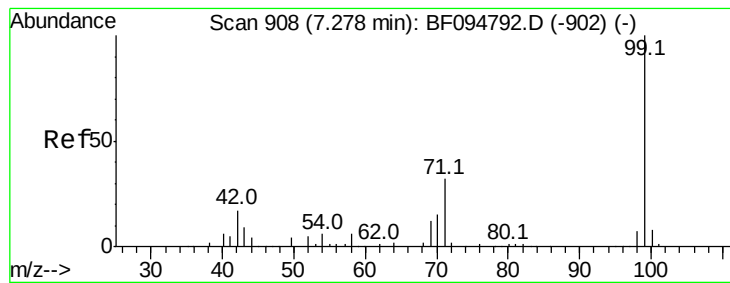


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 39.52 ng

RT: 7.11 min Scan# 896

Delta R.T. -0.19 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Instrument :

BNA\_F

ClientSampled :

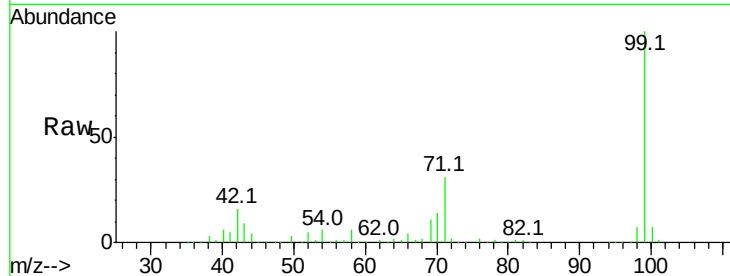
Tot Ion: 99 Resp: 909259

Ion Ratio Lower Upper

99 100

42 15.9 13.5 20.3

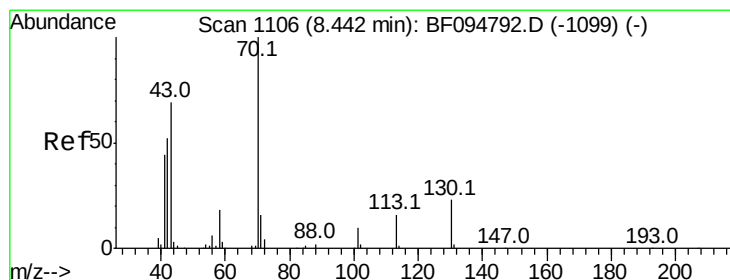
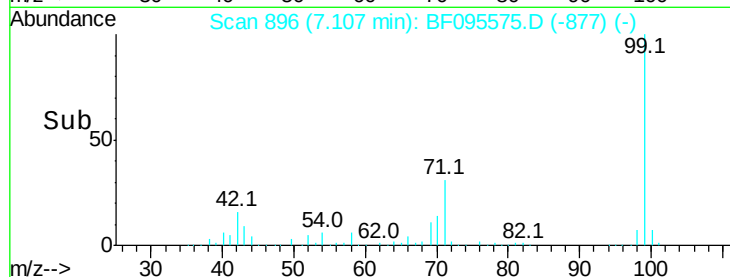
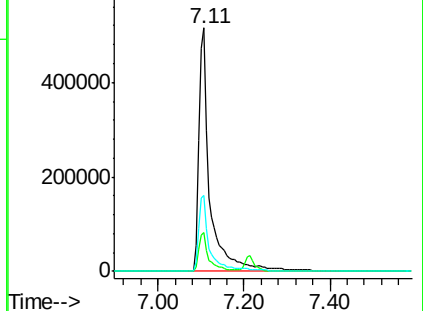
71 31.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 4.33 ng

RT: 8.47 min Scan# 1127

Delta R.T. 0.01 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Tgt Ion: 70 Resp: 67349

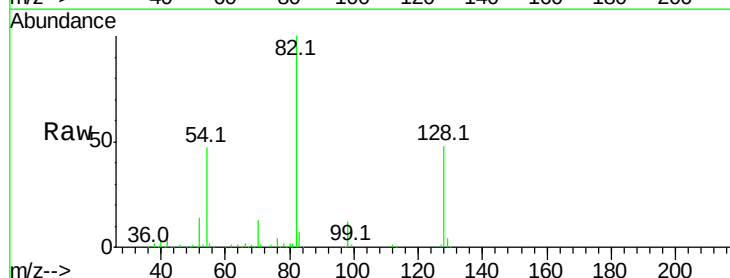
Ion Ratio Lower Upper

70 100

42 44.9 47.2 70.8#

101 0.0 7.2 10.8#

130 2.3 15.9 23.9#

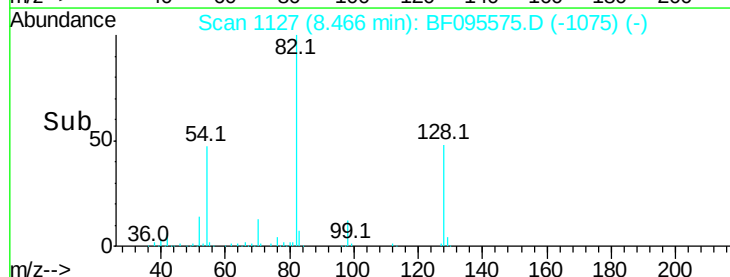
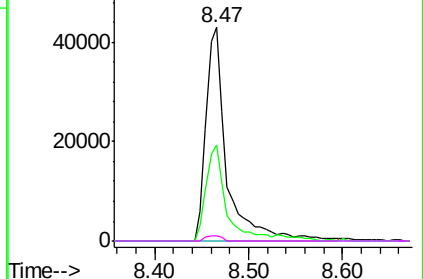


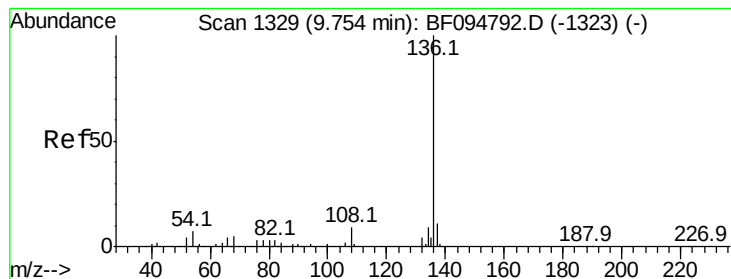
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.58 min Scan# 1317

Delta R.T. -0.18 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 436742

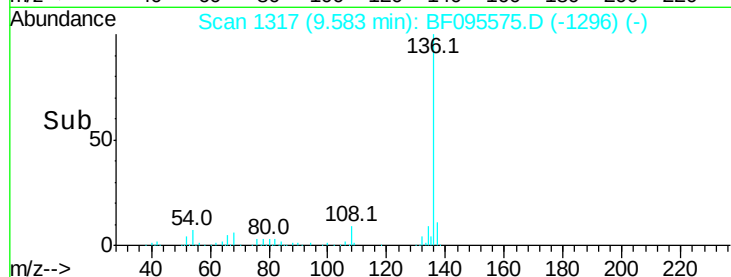
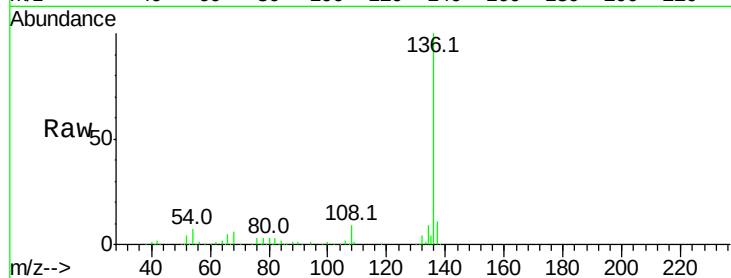
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 6.9 4.9 7.3

68 5.8 4.1 6.1

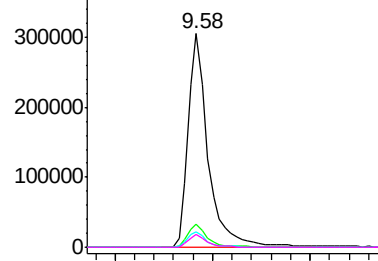


Abundance Ion 136.00 (135.70 to 136.70): E

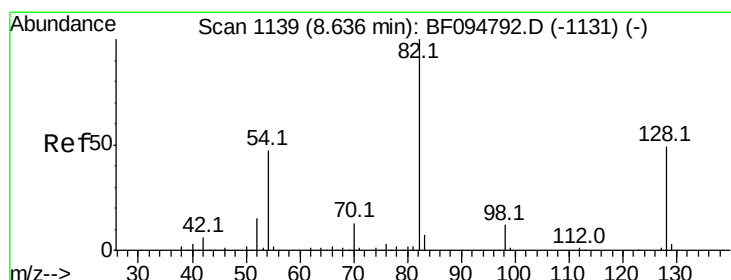
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 76.20 ng

RT: 8.47 min Scan# 1127

Delta R.T. -0.19 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

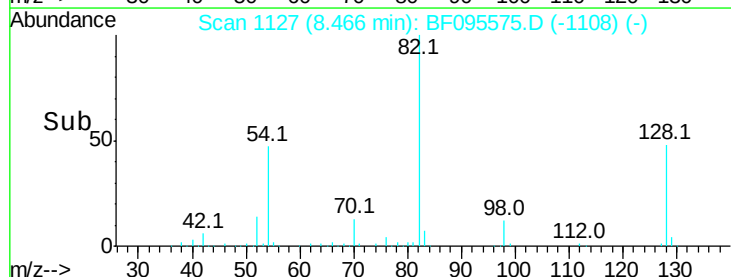
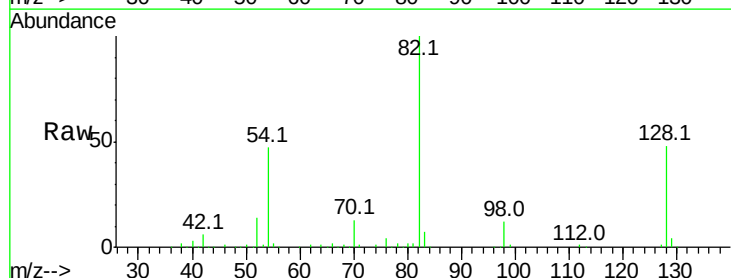
Tgt Ion: 82 Resp: 527786

Ion Ratio Lower Upper

82 100

128 47.8 34.0 51.0

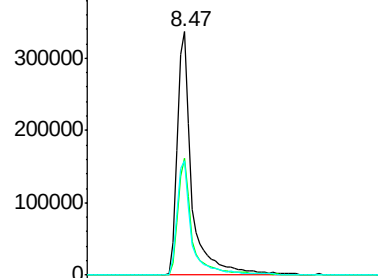
54 47.0 42.2 63.2



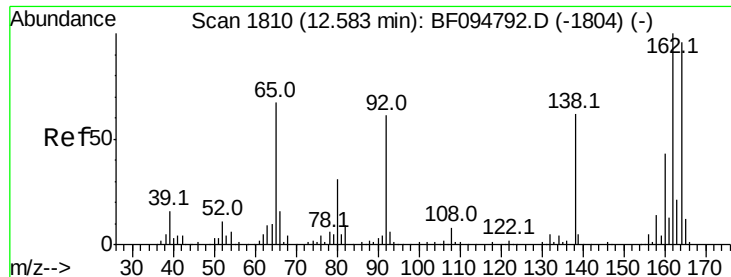
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.41 min Scan# 1797

Delta R.T. -0.19 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Instrument :

BNA\_F

ClientSampleId :

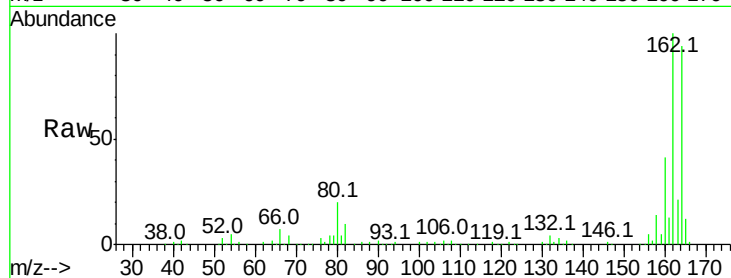
Tot Ion:164 Resp: 192947

Ion Ratio Lower Upper

164 100

162 106.8 82.6 123.8

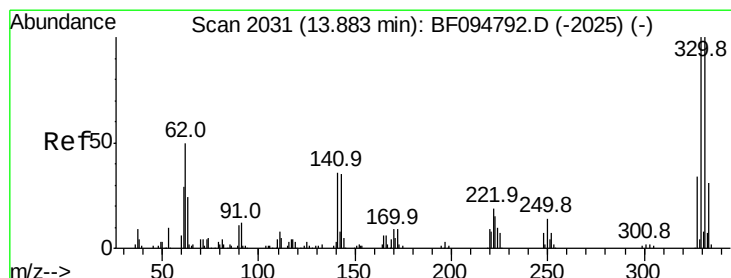
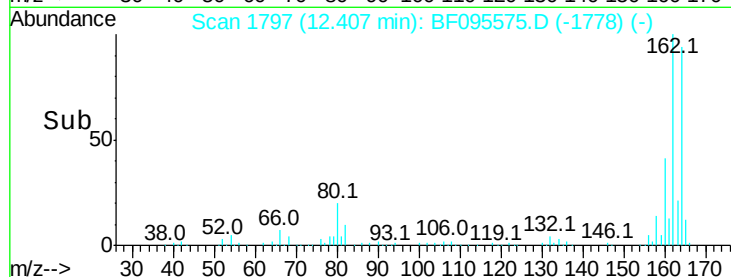
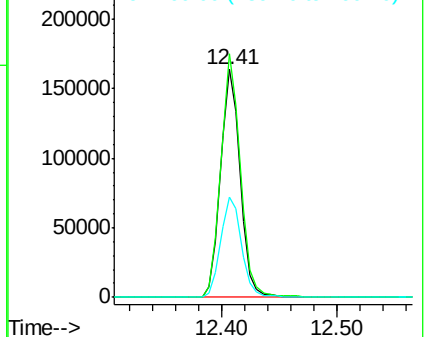
160 43.8 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 97.93 ng

RT: 13.71 min Scan# 2018

Delta R.T. -0.19 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

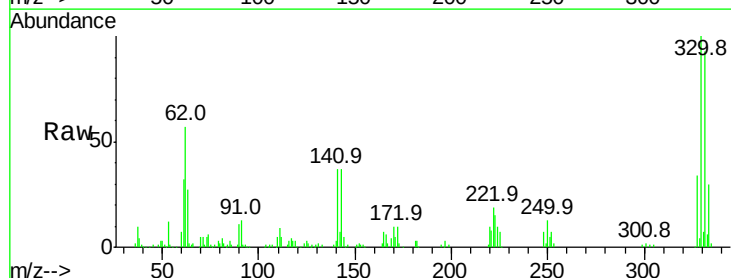
Tgt Ion:330 Resp: 154741

Ion Ratio Lower Upper

330 100

332 95.5 76.6 115.0

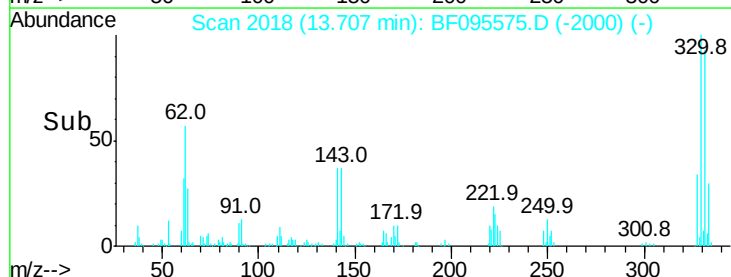
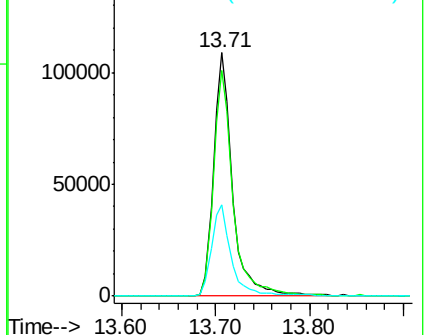
141 39.4 31.4 47.2

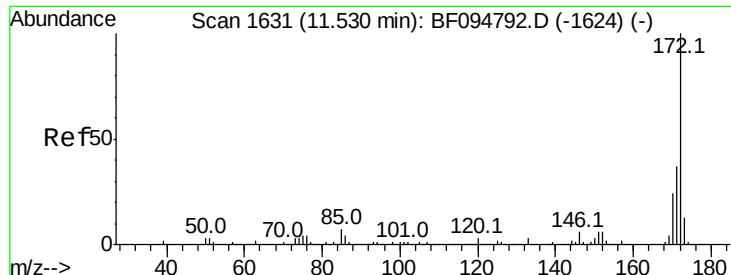


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

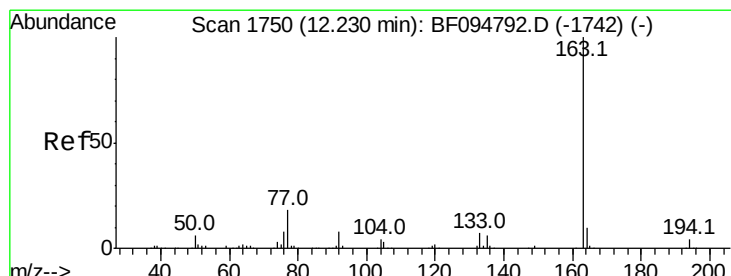
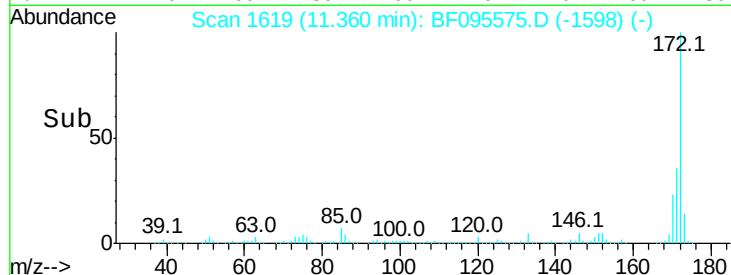
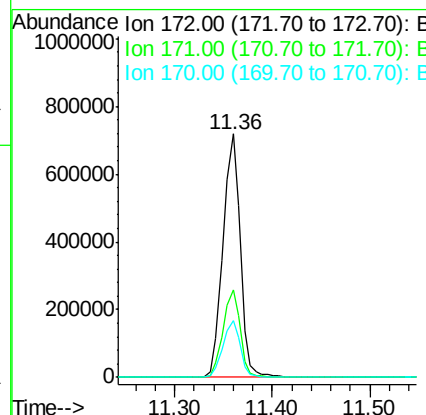
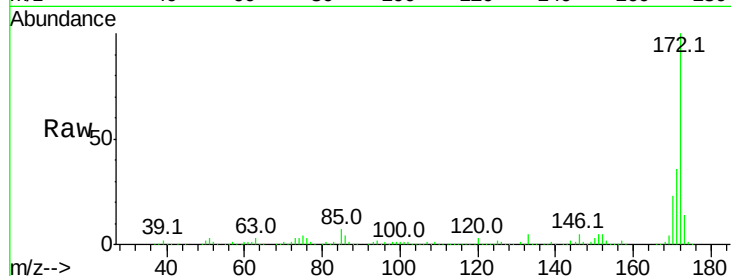




#44  
2-Fluorobiphenyl  
Concen: 66.34 ng  
RT: 11.36 min Scan# 1619  
Delta R.T. -0.18 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

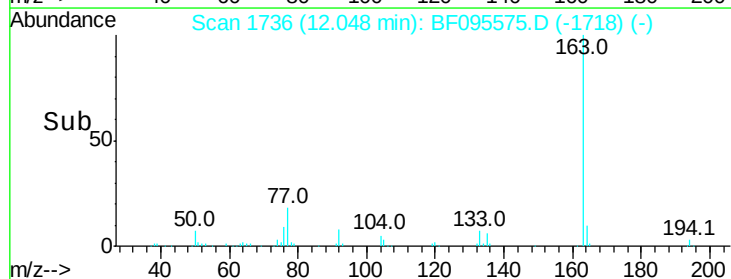
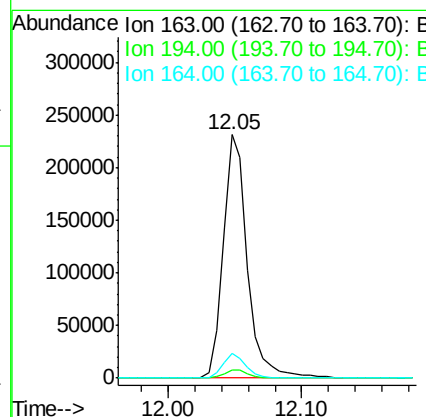
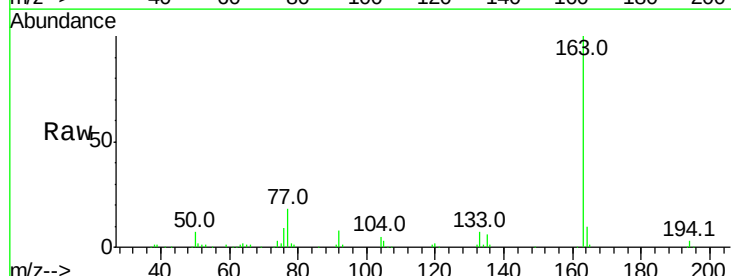
Instrument :  
BNA\_F  
ClientSampled :

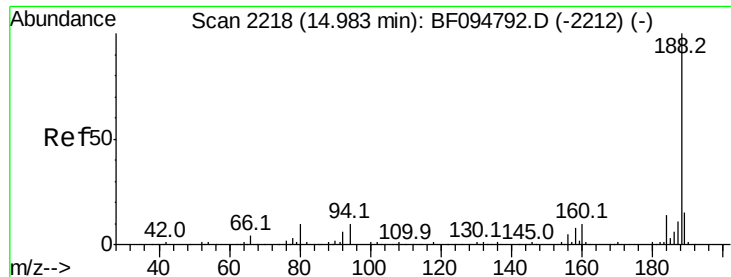
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.6  | 44.4  |
| 170     | 23.3  | 19.8  | 29.8  |



#49  
Dimethylphthalate  
Concen: 18.56 ng  
RT: 12.05 min Scan# 1736  
Delta R.T. -0.19 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.2   | 2.6   | 4.0   |
| 164     | 10.1  | 8.4   | 12.6  |

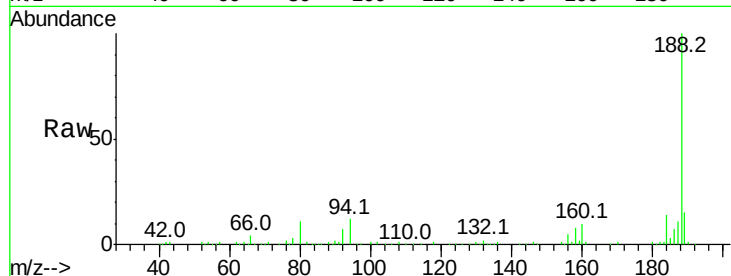




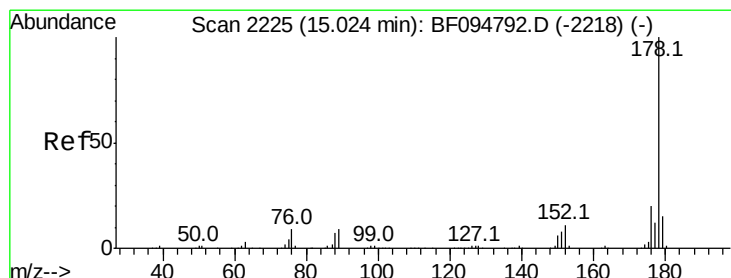
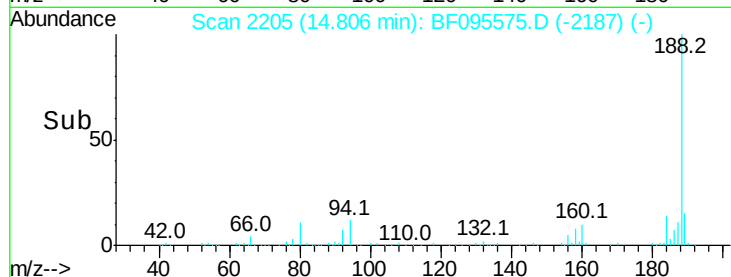
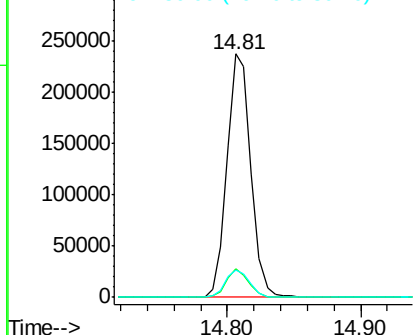
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 14.81 min Scan# 2205  
Delta R.T. -0.19 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 298325  
Ion Ratio Lower Upper  
188 100  
94 11.5 9.4 14.2  
80 11.5 10.2 15.2

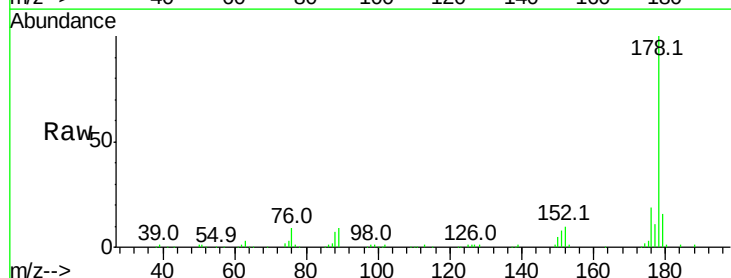


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

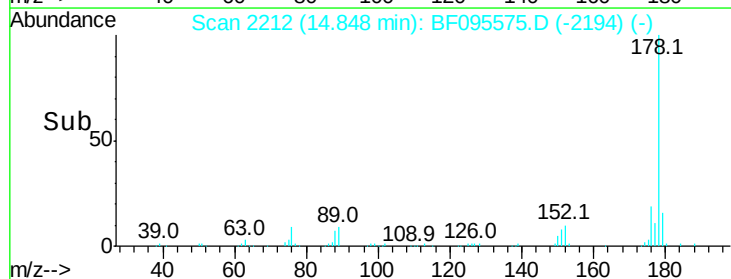
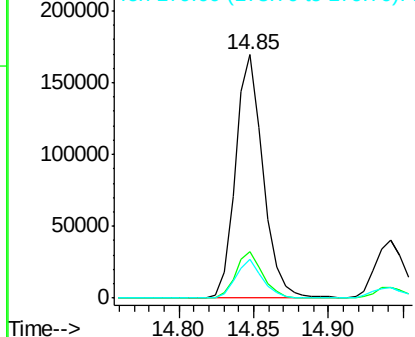


#70  
Phenanthrene  
Concen: 12.74 ng  
RT: 14.85 min Scan# 2212  
Delta R.T. -0.19 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

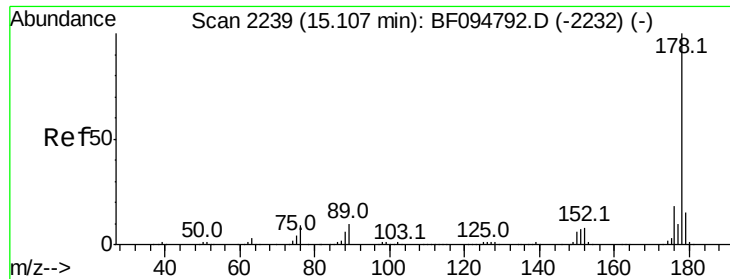
Tgt Ion:178 Resp: 218301  
Ion Ratio Lower Upper  
178 100  
176 19.2 16.2 24.4  
179 15.8 12.6 19.0



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



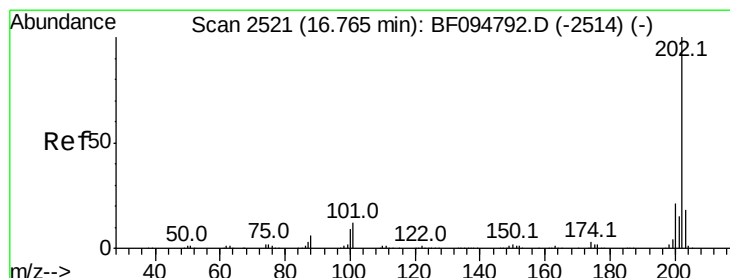
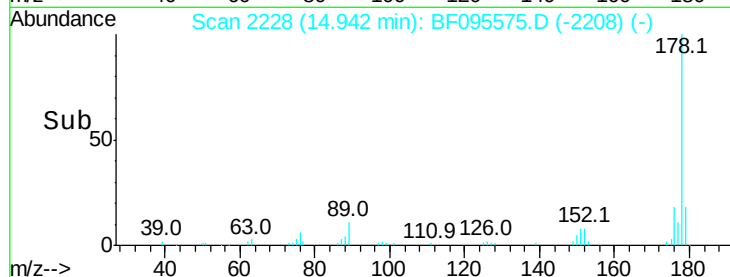
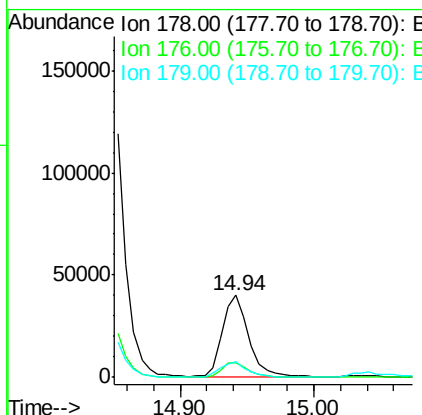
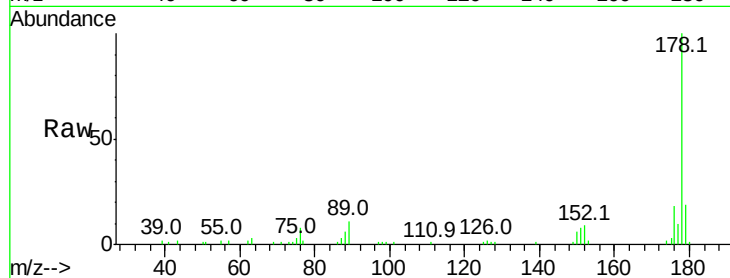




#71  
 Anthracene  
 Concen: 3.24 ng  
 RT: 14.94 min Scan# 2228  
 Delta R.T. -0.18 min  
 Lab File: BF095575.D  
 Acq: 31 May 2017 21:12

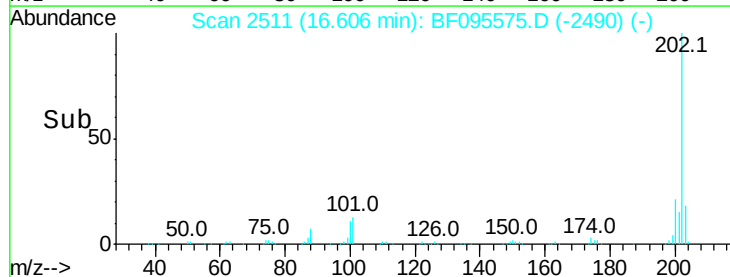
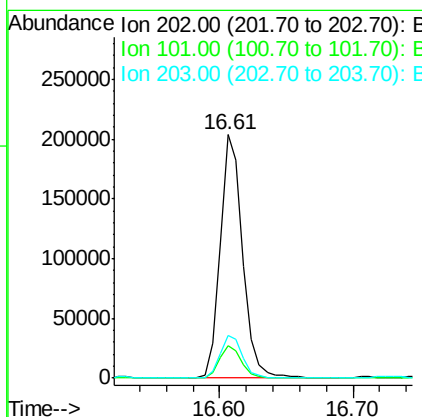
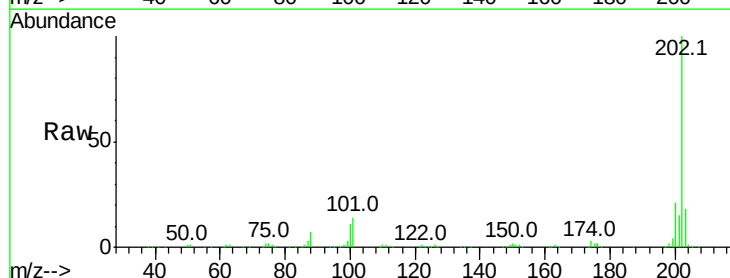
Instrument :  
 BNA\_F  
 ClientSampleId :

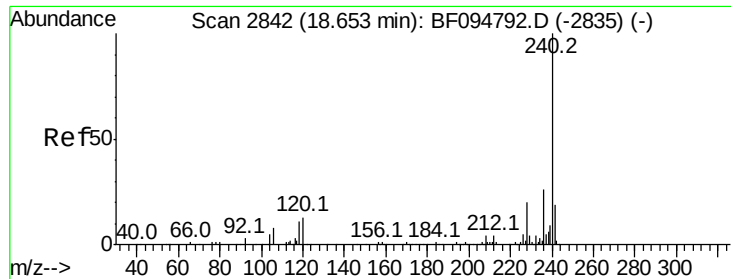
Tot Ion:178 Resp: 56743  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 15.8 23.8  
 179 18.5 12.7 19.1



#74  
 Fluoranthene  
 Concen: 13.78 ng  
 RT: 16.61 min Scan# 2511  
 Delta R.T. -0.18 min  
 Lab File: BF095575.D  
 Acq: 31 May 2017 21:12

Tgt Ion:202 Resp: 242290  
 Ion Ratio Lower Upper  
 202 100  
 101 13.6 0.0 33.2  
 203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.50 min Scan# 2833

Delta R.T. -0.18 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Instrument :

BNA\_F

ClientSampleId :

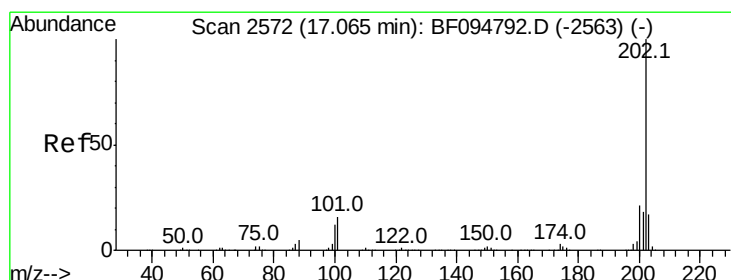
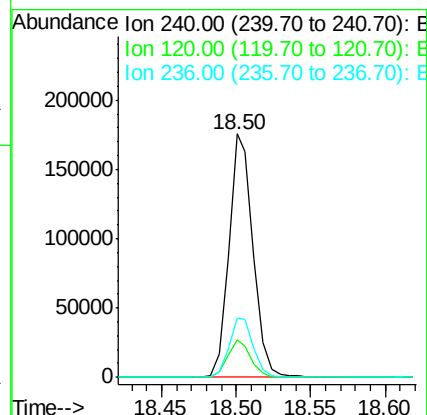
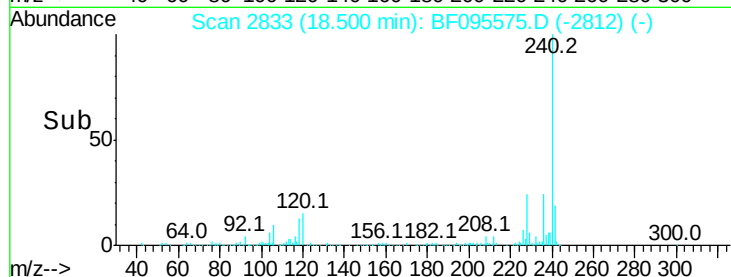
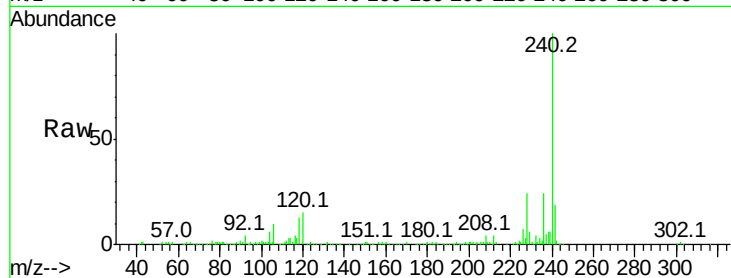
Tot Ion:240 Resp: 199588

Ion Ratio Lower Upper

240 100

120 15.3 5.8 8.8#

236 24.4 20.5 30.7



#77

Pyrene

Concen: 12.92 ng

RT: 16.91 min Scan# 2563

Delta R.T. -0.18 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

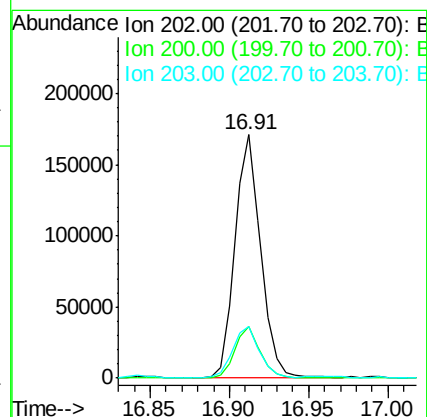
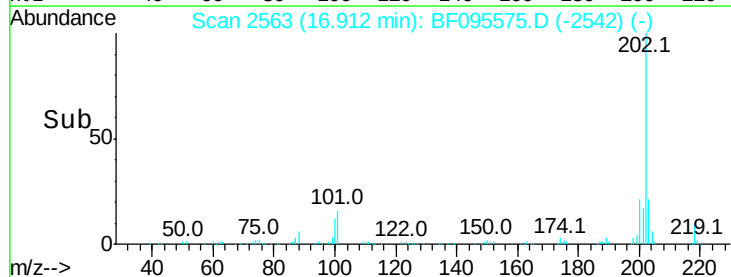
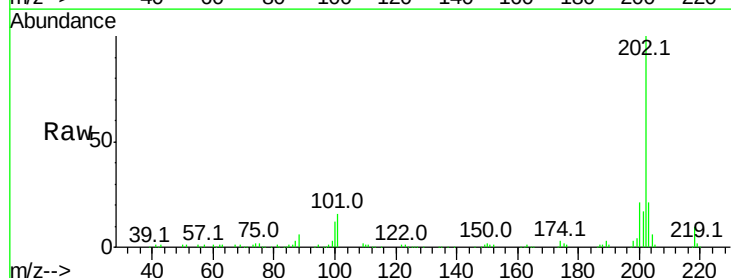
Tgt Ion:202 Resp: 192894

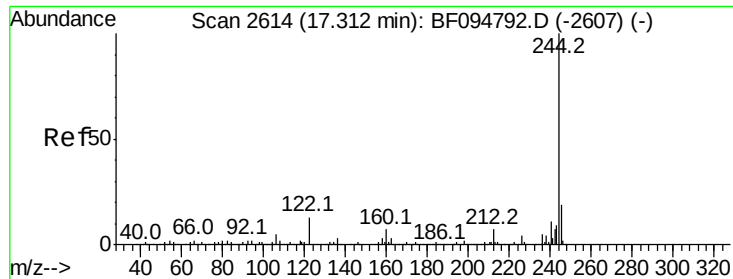
Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

203 21.4 14.4 21.6





#78

Terphenyl-d14

Concen: 56.74 ng

RT: 17.15 min Scan# 2604

Delta R.T. -0.17 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Instrument :

BNA\_F

ClientSampleId :

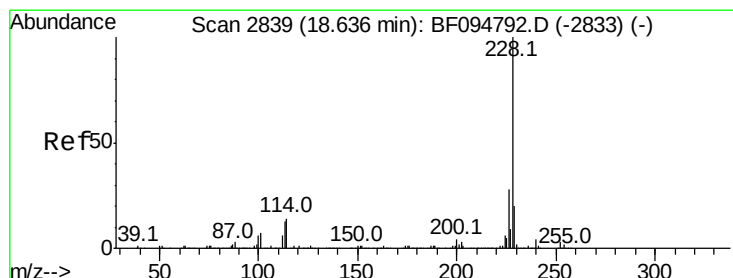
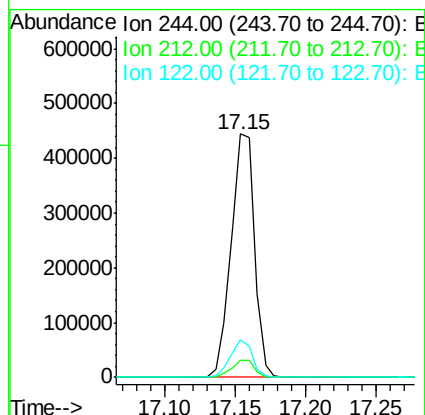
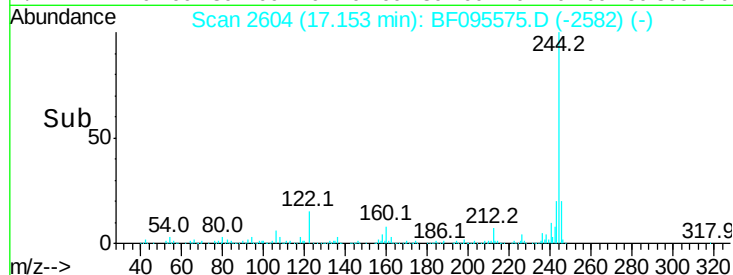
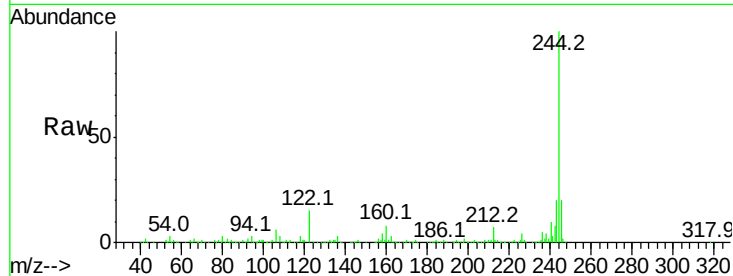
Tot Ion:244 Resp: 514190

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

122 15.4 10.3 15.5



#80

Benzo(a)anthracene

Concen: 7.93 ng

RT: 18.49 min Scan# 2832

Delta R.T. -0.17 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

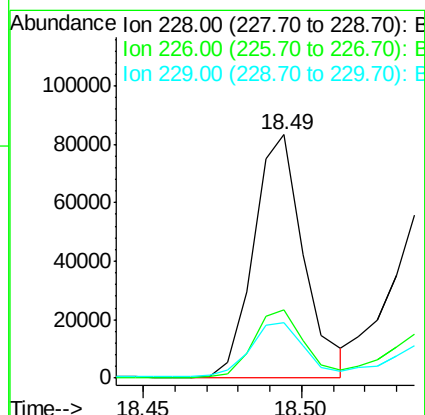
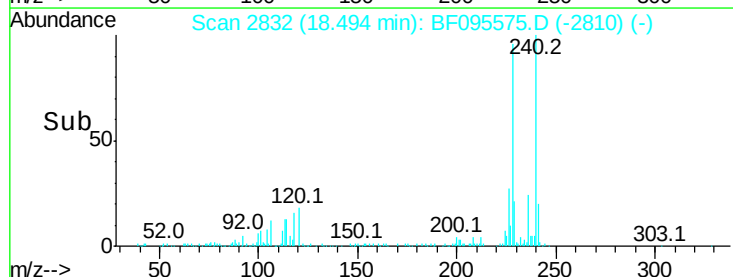
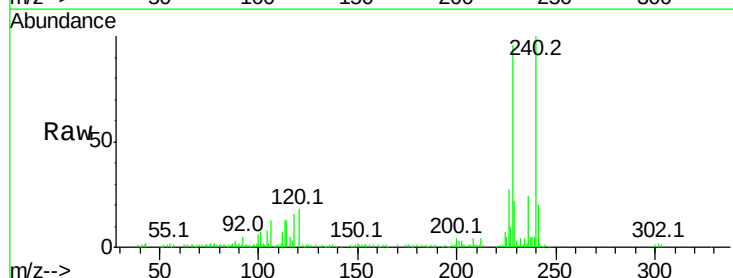
Tgt Ion:228 Resp: 92170

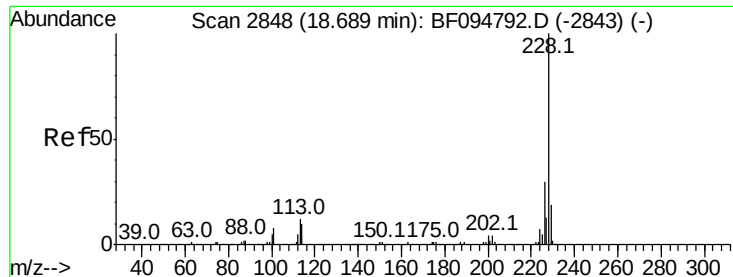
Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

229 22.6 16.3 24.5

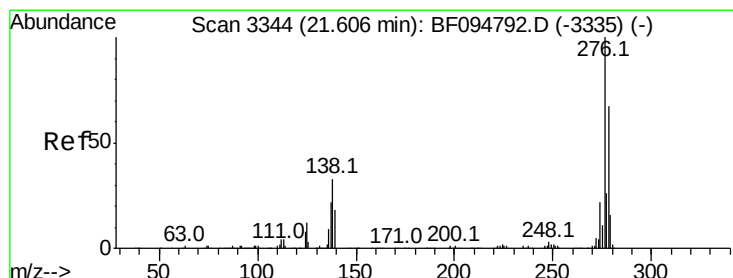
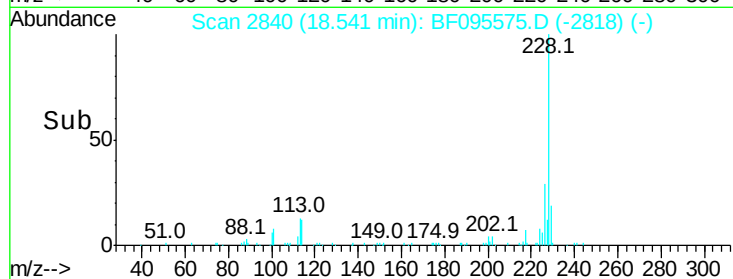
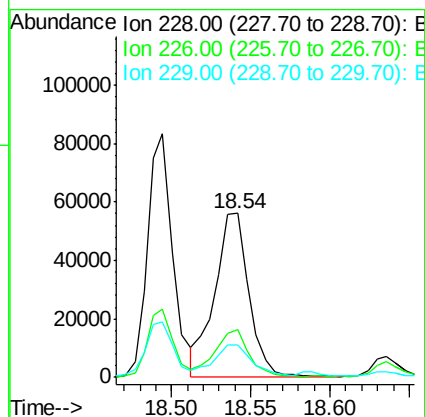
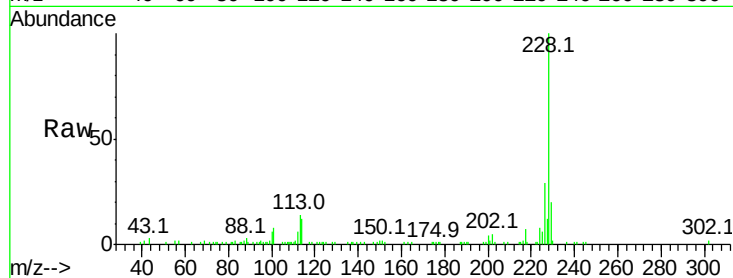




#82  
Chrysene  
Concen: 7.52 ng  
RT: 18.54 min Scan# 2840  
Delta R.T. -0.17 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

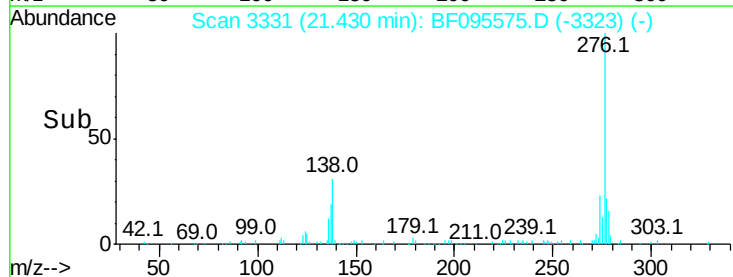
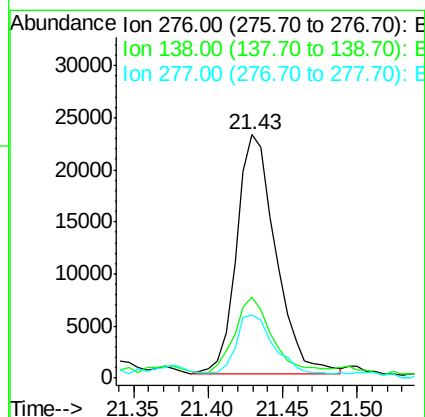
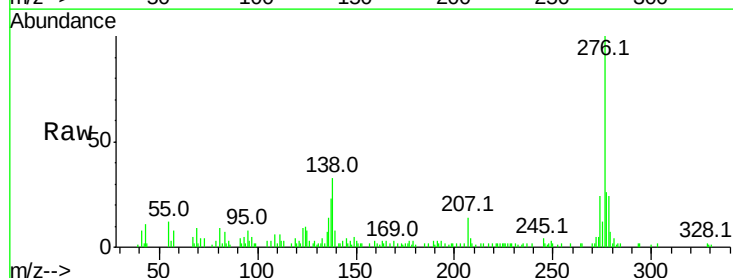
Instrument :  
BNA\_F  
ClientSampleId :

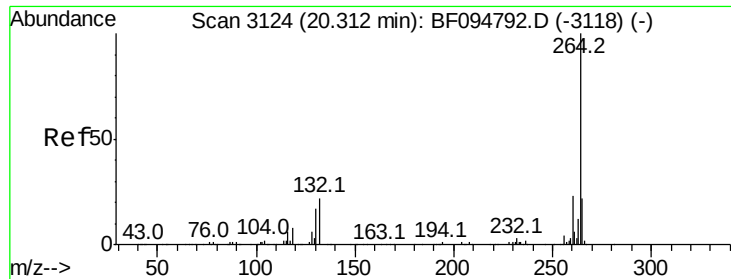
Tot Ion:228 Resp: 84416  
Ion Ratio Lower Upper  
228 100  
226 28.8 24.9 37.3  
229 19.6 15.8 23.6



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.56 ng  
RT: 21.43 min Scan# 3331  
Delta R.T. -0.25 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

Tgt Ion:276 Resp: 41560  
Ion Ratio Lower Upper  
276 100  
138 30.8 27.8 41.6  
277 24.7 20.2 30.4



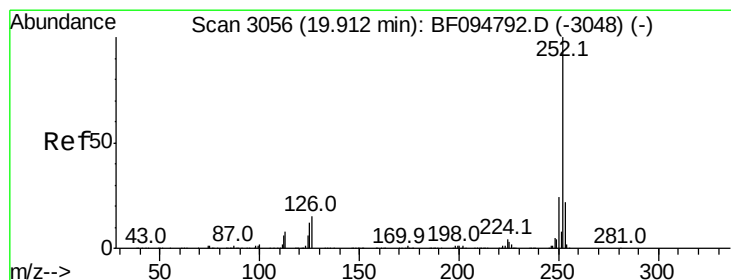
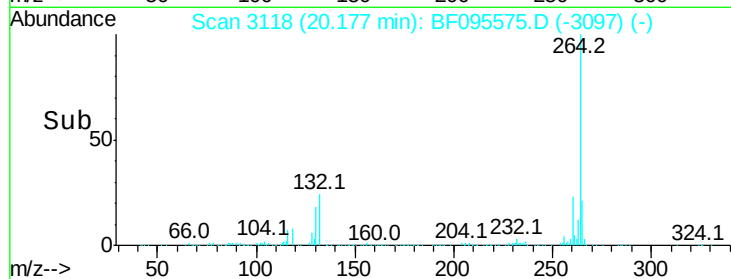
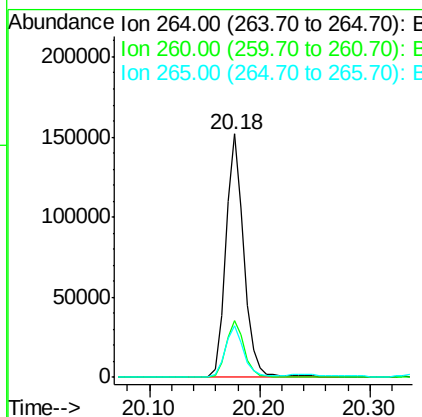
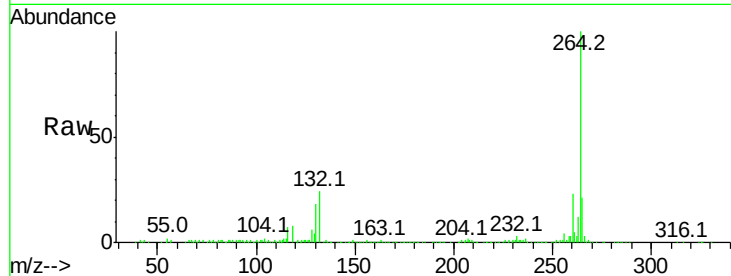


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.18 min Scan# 3118  
Delta R.T. -0.18 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 173331  

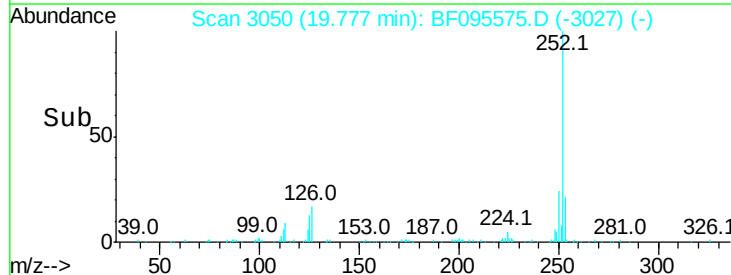
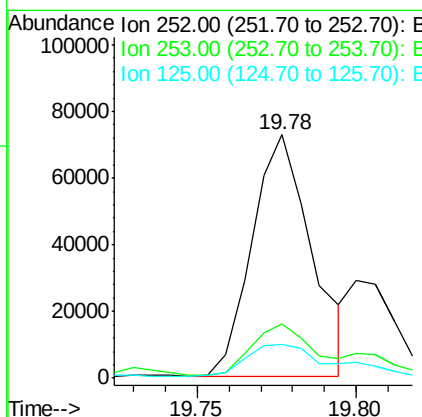
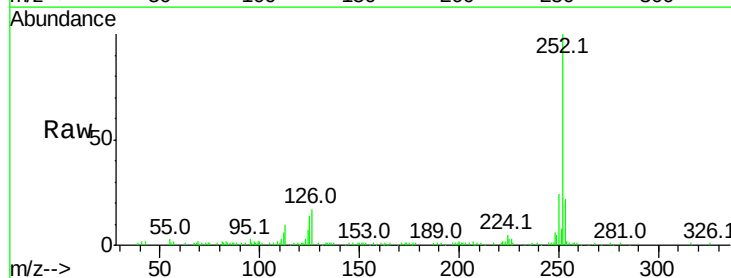
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.4  | 19.5  | 29.3  |
| 265 | 21.1  | 17.2  | 25.8  |

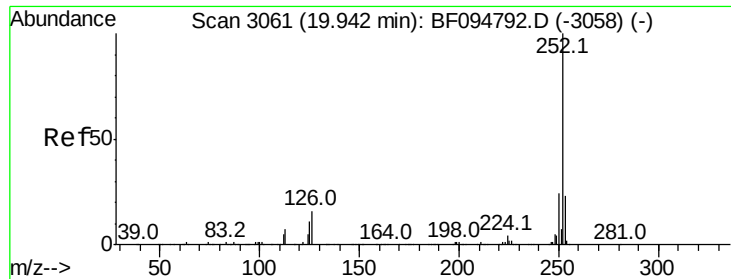


#87  
Benzo(b)fluoranthene  
Concen: 8.89 ng  
RT: 19.78 min Scan# 3050  
Delta R.T. -0.16 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

Tgt Ion:252 Resp: 95180  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.0  | 18.1  | 27.1  |
| 125 | 13.9  | 9.8   | 14.8  |

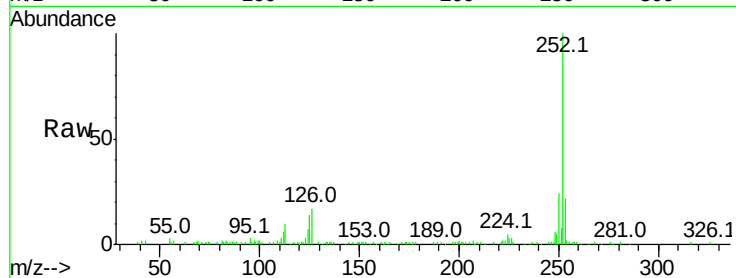




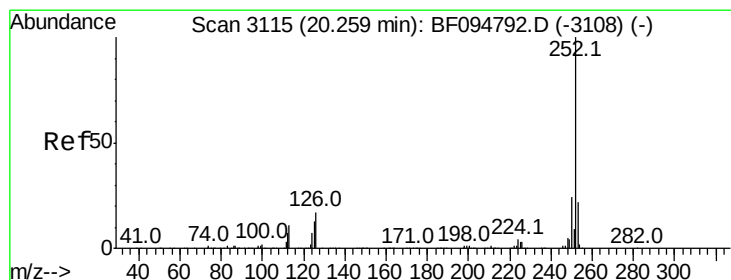
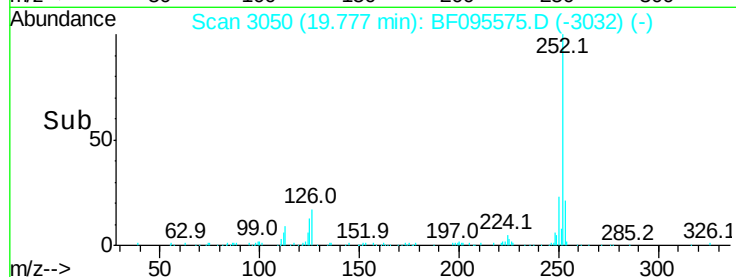
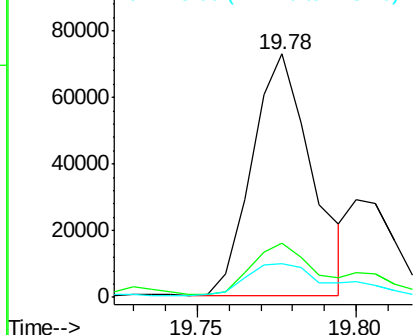
#88  
Benzo(k)fluoranthene  
Concen: 9.21 ng  
RT: 19.78 min Scan# 3050  
Delta R.T. -0.19 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 95180  
Ion Ratio Lower Upper  
252 100  
253 22.0 18.4 27.6  
125 13.9 13.1 19.7

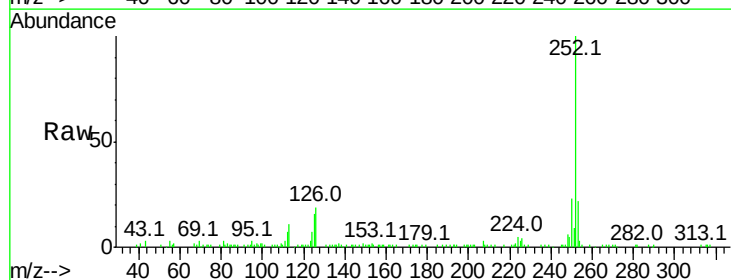


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

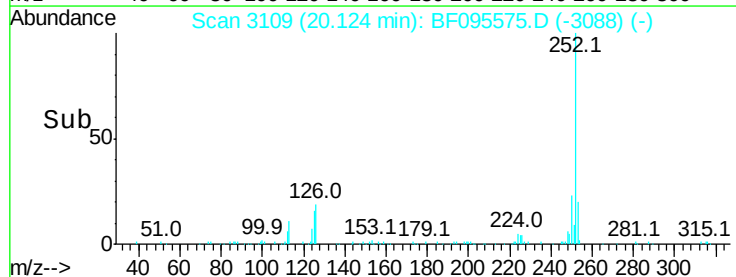
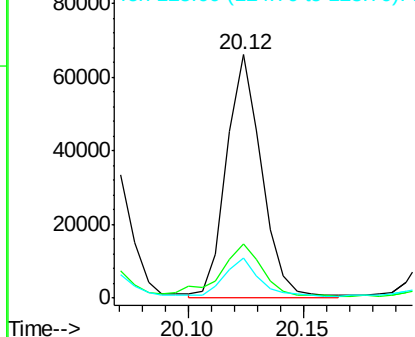


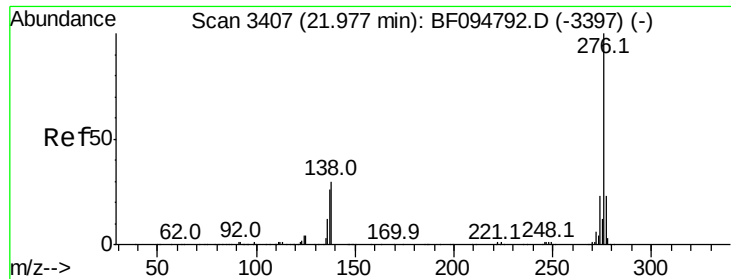
#89  
Benzo(a)pyrene  
Concen: 7.17 ng  
RT: 20.12 min Scan# 3109  
Delta R.T. -0.18 min  
Lab File: BF095575.D  
Acq: 31 May 2017 21:12

Tgt Ion:252 Resp: 70852  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.5 26.3  
125 16.4 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 5.14 ng

RT: 21.79 min Scan# 3393

Delta R.T. -0.28 min

Lab File: BF095575.D

Acq: 31 May 2017 21:12

Instrument :

BNA\_F

ClientSampleId :

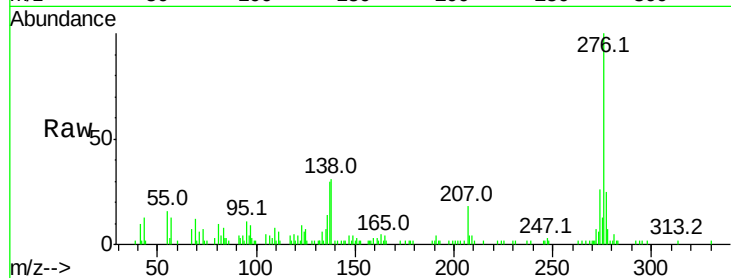
Tot Ion: 276 Resp: 41173

Ion Ratio Lower Upper

276 100

277 25.4 18.6 28.0

138 30.8 25.4 38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

