

Data Path : Z:\HPCHEM1\BNA F\DATA\BF110615\  
 Data File : BF082735.D  
 Acq On : 5 Nov 2015 18:03  
 Operator : UM/IZ  
 Sample : G4284-03 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AVE-E-RA15.1-2

Quant Time: Nov 06 04:53:35 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF103015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 03 12:27:47 2015  
 Response via : Initial Calibration

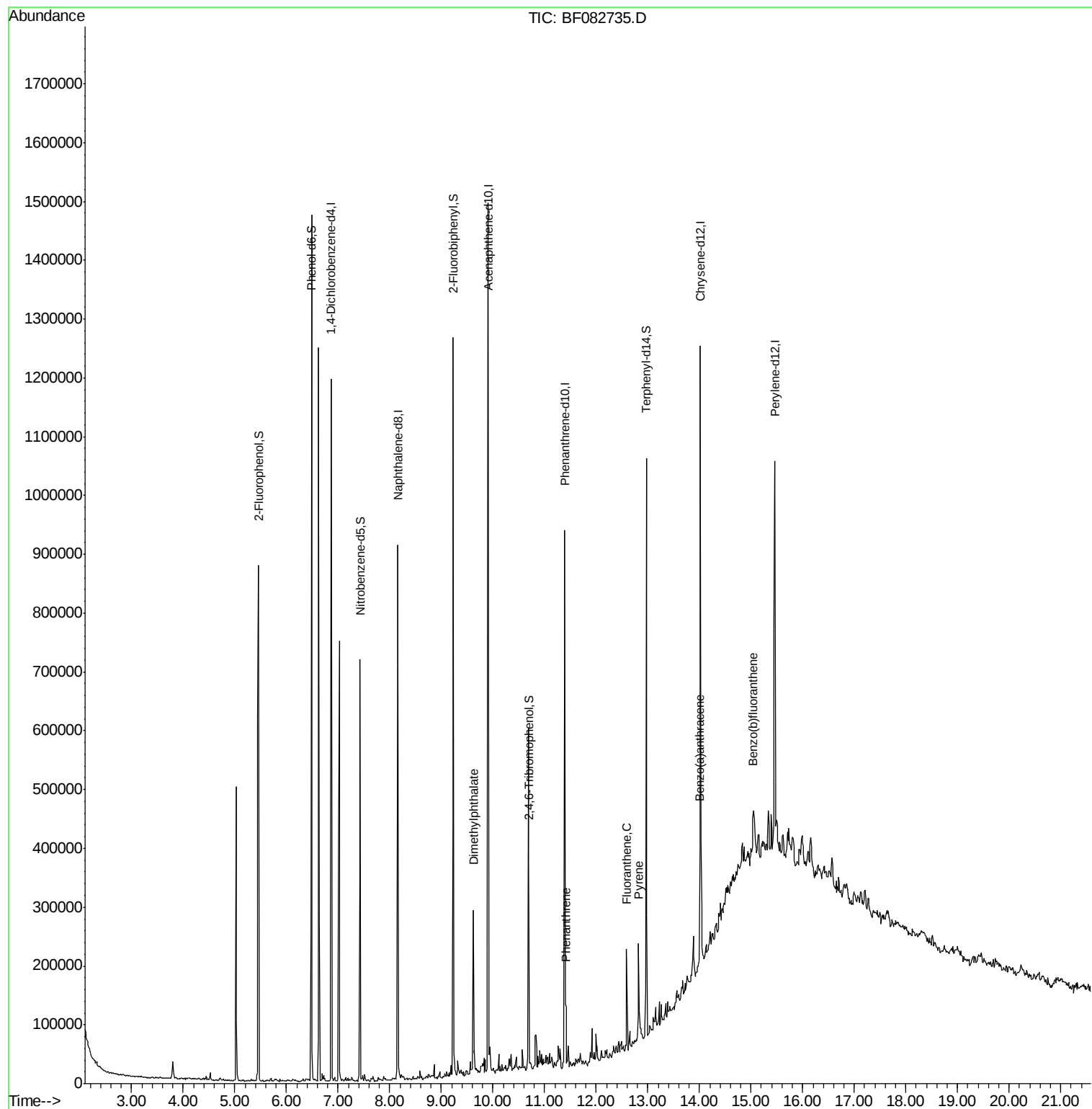
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 152429   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.16  | 136  | 529585   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.90  | 164  | 275949   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.39 | 188  | 445772   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 14.02 | 240  | 346179   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.46 | 264  | 322694   | 20.00 | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 285275   | 28.19 | ng    | -0.01    |
| 7) Phenol-d6                | 6.49  | 99   | 419592   | 31.21 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 261907   | 20.20 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 78056    | 25.85 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 424977   | 21.87 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.97 | 244  | 283483   | 17.92 | ng    | -0.03    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.62  | 163  | 96654    | 4.29  | ng    | 97       |
| 70) Phenanthrene            | 11.41 | 178  | 51455    | 2.05  | ng    | 96       |
| 74) Fluoranthene            | 12.59 | 202  | 73721    | 2.87  | ng    | 97       |
| 77) Pyrene                  | 12.82 | 202  | 67262    | 2.62  | ng    | 97       |
| 80) Benzo(a)anthracene      | 14.01 | 228  | 44985    | 2.05  | ng    | 93       |
| 87) Benzo(b)fluoranthene    | 15.05 | 252  | 46351m   | 2.08  | ng    |          |

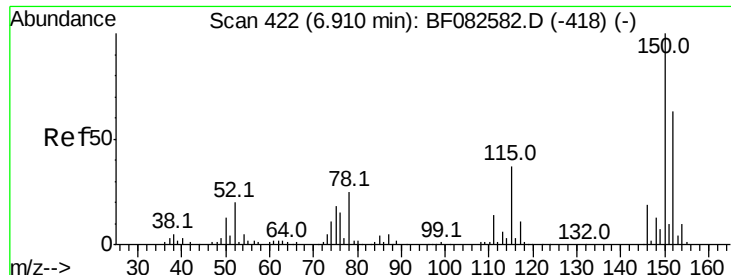
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 418

Delta R.T. -0.01 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

Instrument :

BNA\_F

ClientSampleId :

AVE-E-RA15.1-2

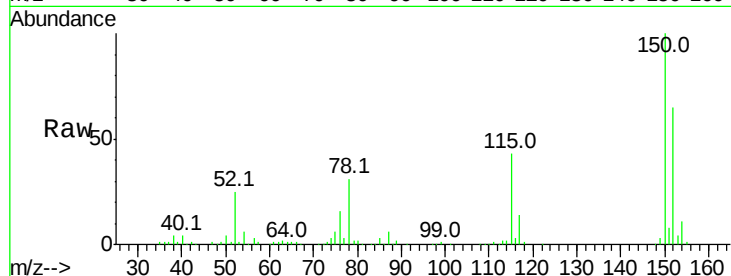
Tot Ion:152 Resp: 152429

Ion Ratio Lower Upper

152 100

150 153.7 127.0 190.4

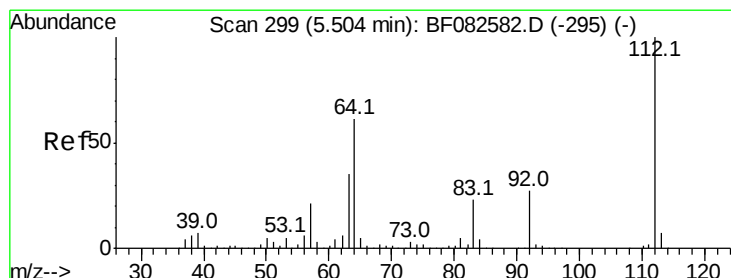
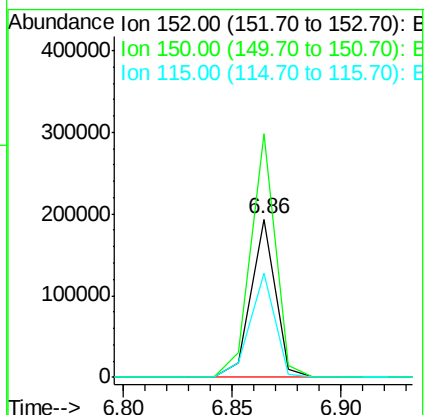
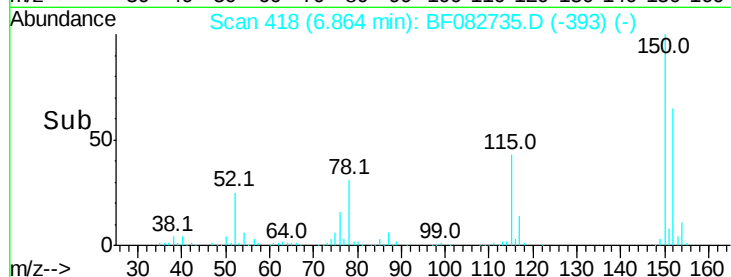
115 66.1 47.0 70.6



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: 28.19 ng

RT: 5.46 min Scan# 295

Delta R.T. -0.01 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

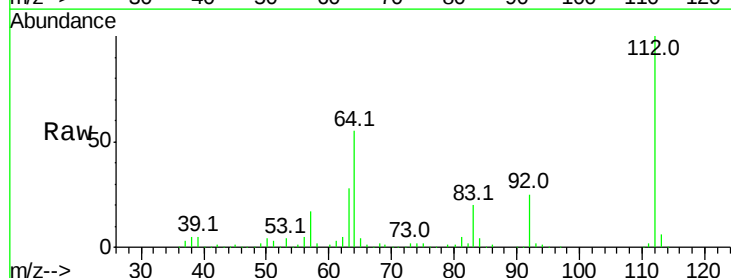
Tgt Ion:112 Resp: 285275

Ion Ratio Lower Upper

112 100

64 55.0 48.9 73.3

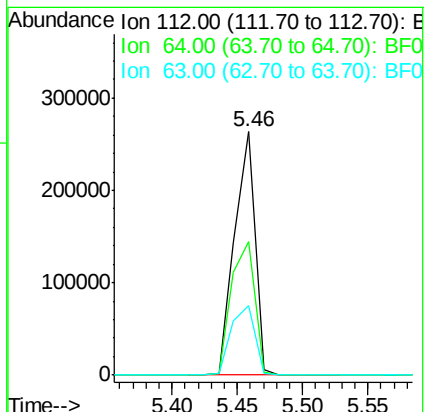
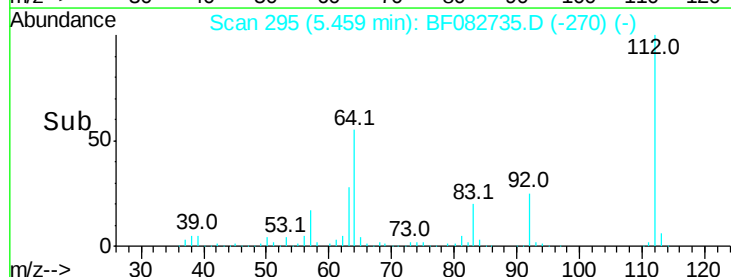
63 28.4 28.1 42.1

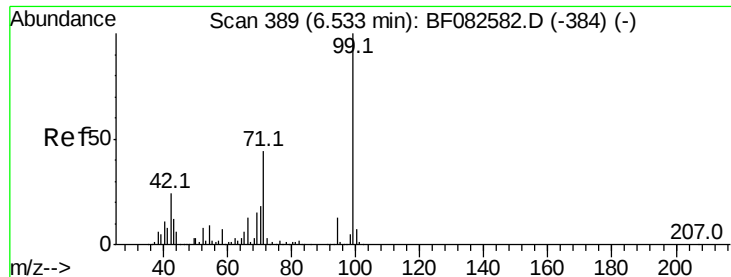


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 31.21 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

Instrument :

BNA\_F

ClientSampleId :

AVE-E-RA15.1-2

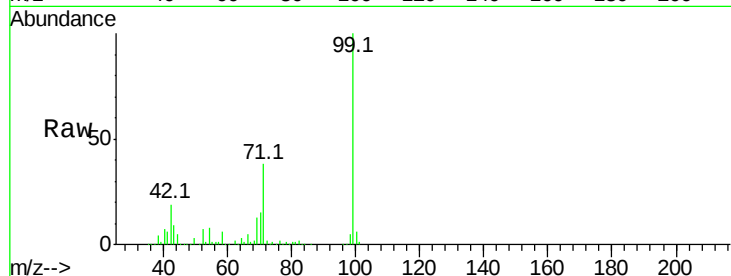
Tot Ion: 99 Resp: 419592

Ion Ratio Lower Upper

99 100

42 19.3 19.2 28.8

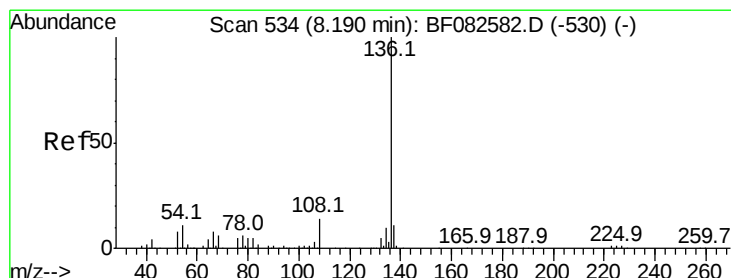
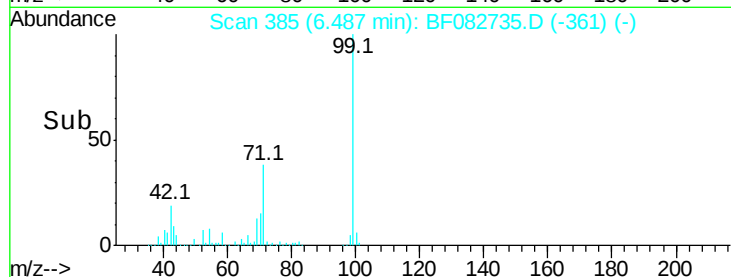
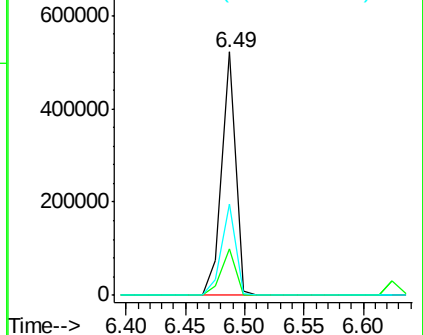
71 37.6 35.0 52.4



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 531

Delta R.T. -0.01 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

Tgt Ion: 136 Resp: 529585

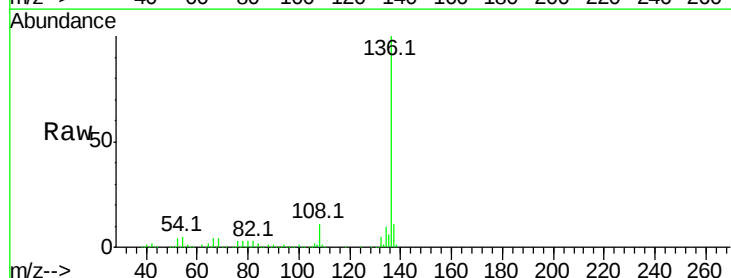
Ion Ratio Lower Upper

136 100

137 10.8 9.1 13.7

54 5.2 9.1 13.7#

68 3.7 4.8 7.2#

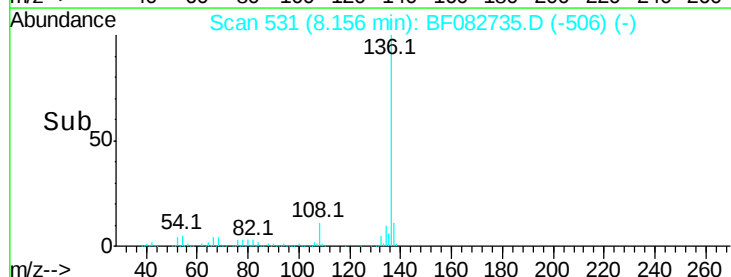
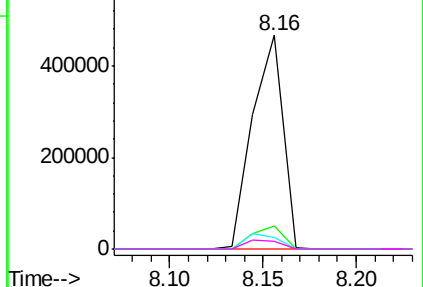


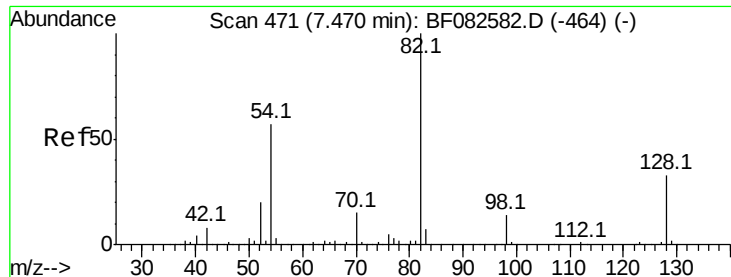
Abundance Ion 136.00 (135.70 to 136.70): E

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

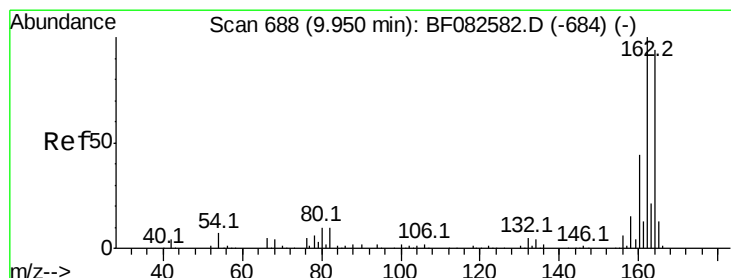
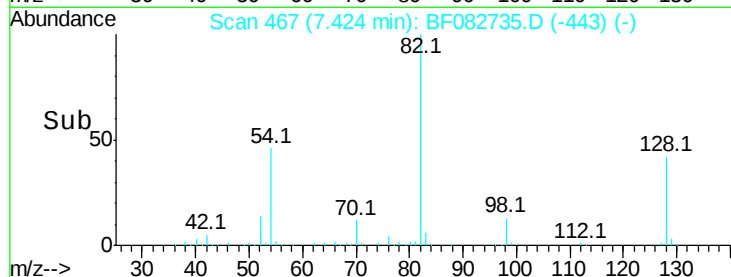
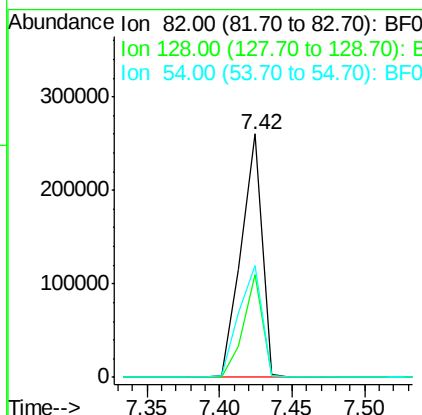
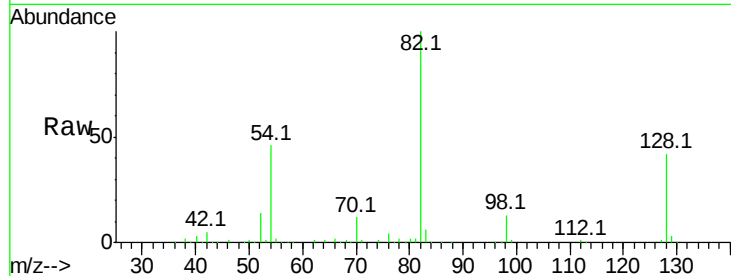




#23  
Nitrobenzene-d5  
Concen: 20.20 ng  
RT: 7.42 min Scan# 467  
Delta R.T. -0.02 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

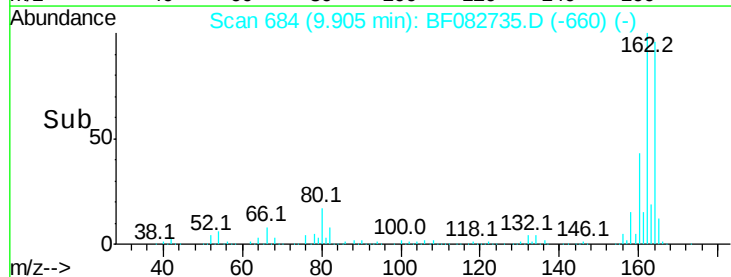
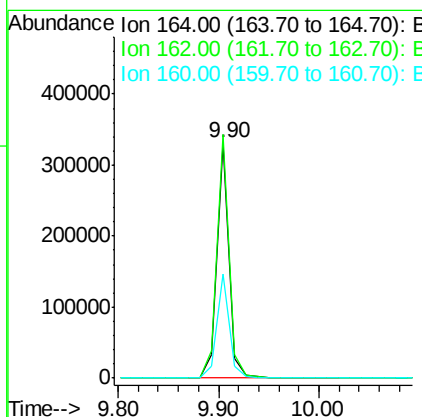
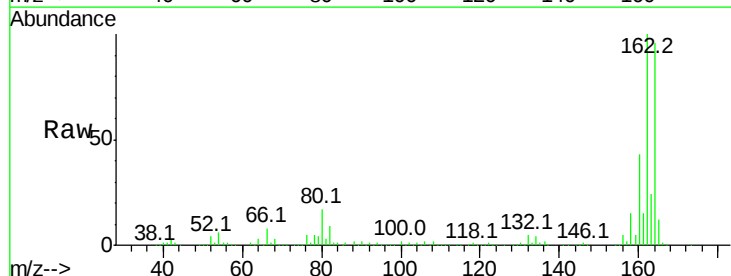
Instrument :  
BNA\_F  
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AVE-E-RA15.1-2

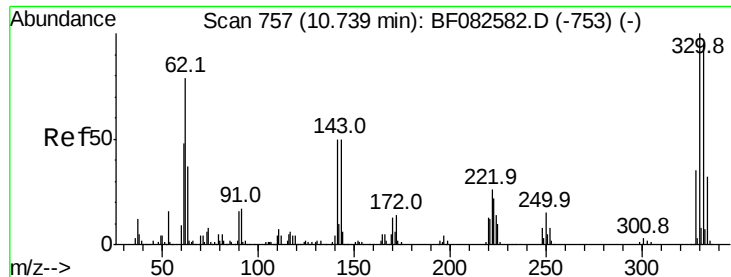
Tot Ion: 82 Resp: 261907  
Ion Ratio Lower Upper  
82 100  
128 42.2 26.8 40.2#  
54 45.8 45.7 68.5



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.90 min Scan# 684  
Delta R.T. -0.02 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

Tgt Ion:164 Resp: 275949  
Ion Ratio Lower Upper  
164 100  
162 103.7 84.9 127.3  
160 44.6 37.5 56.3

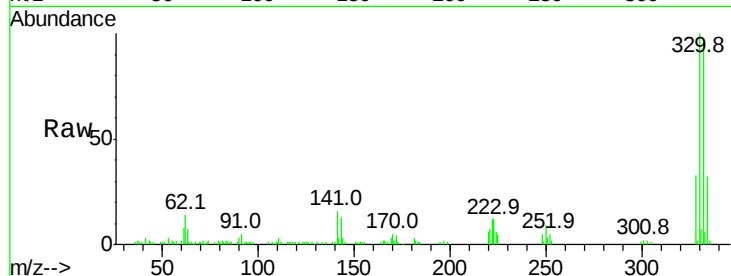




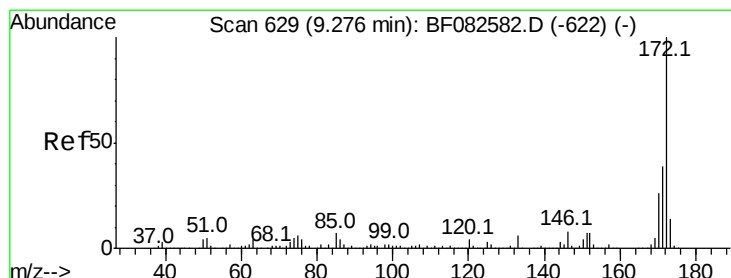
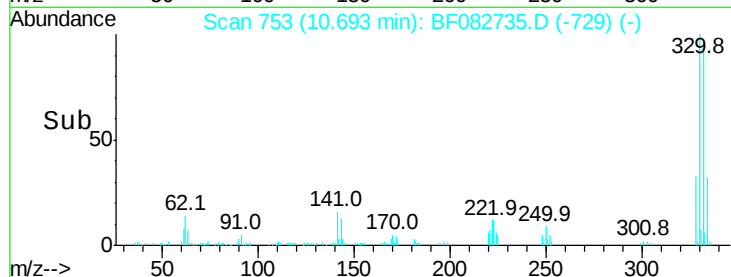
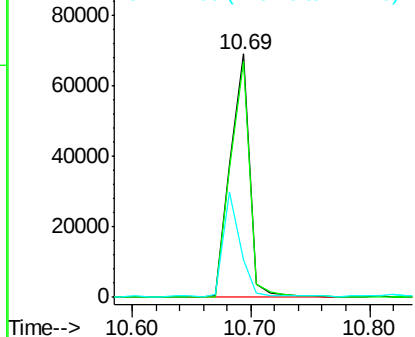
#41  
 2,4,6-Tribromophenol  
 Concen: 25.85 ng  
 RT: 10.69 min Scan# 753  
 Delta R.T. -0.02 min  
 Lab File: BF082735.D  
 Acq: 5 Nov 2015 18:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 AVE-E-RA15.1-2

Tot Ion:330 Resp: 78056  
 Ion Ratio Lower Upper  
 330 100  
 332 97.5 76.6 114.8  
 141 40.2 41.2 61.8#

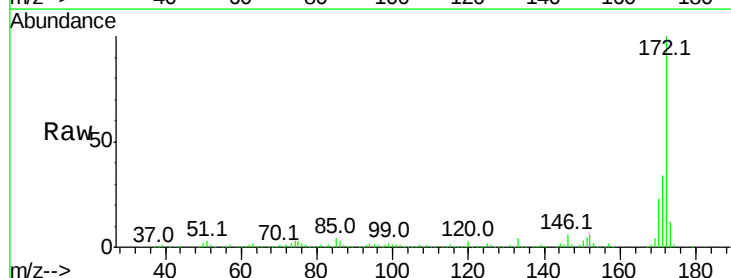


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

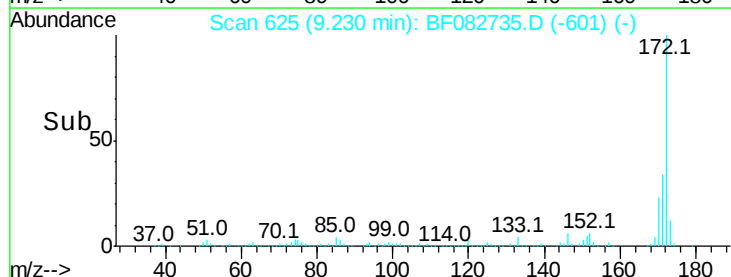
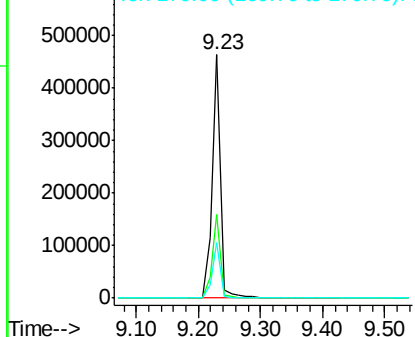


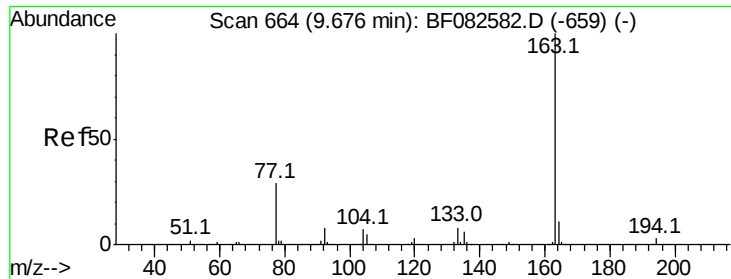
#44  
 2-Fluorobiphenyl  
 Concen: 21.87 ng  
 RT: 9.23 min Scan# 625  
 Delta R.T. -0.02 min  
 Lab File: BF082735.D  
 Acq: 5 Nov 2015 18:03

Tgt Ion:172 Resp: 424977  
 Ion Ratio Lower Upper  
 172 100  
 171 34.5 30.8 46.2  
 170 22.9 21.2 31.8



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

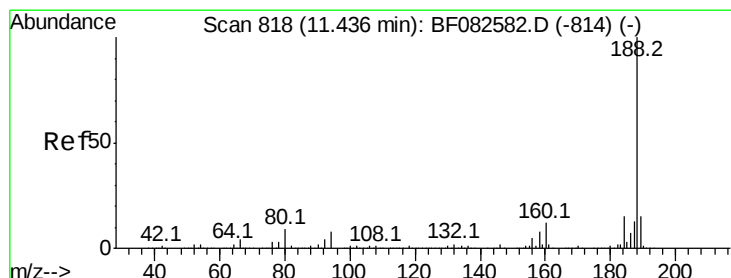
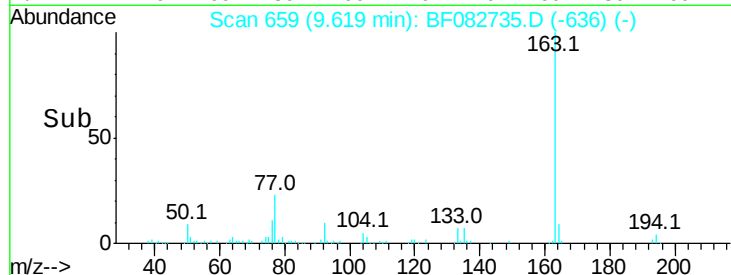
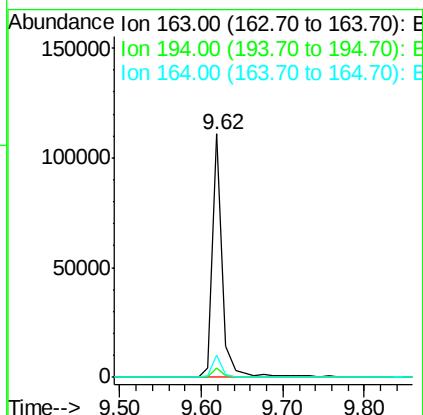
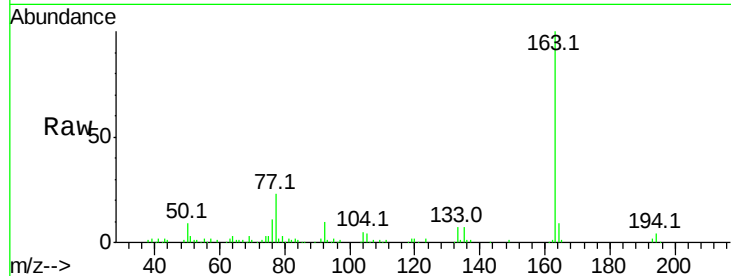




#49  
Dimethylphthalate  
Concen: 4.29 ng  
RT: 9.62 min Scan# 659  
Delta R.T. -0.03 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

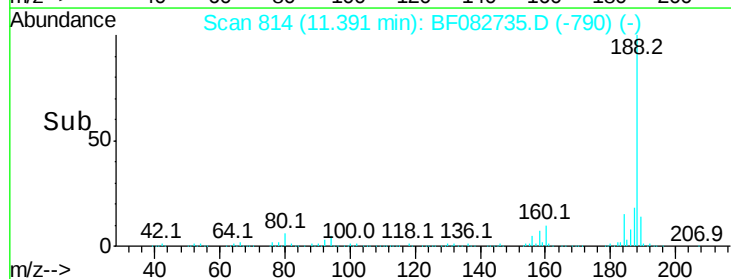
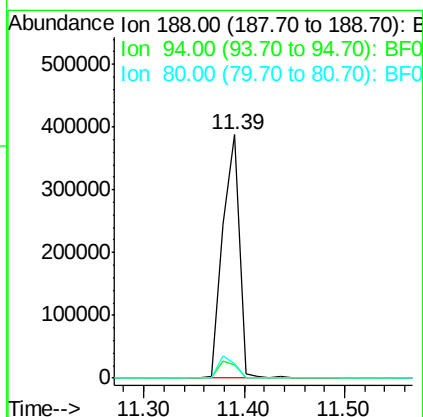
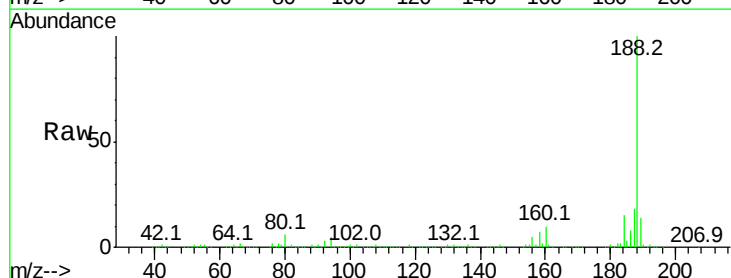
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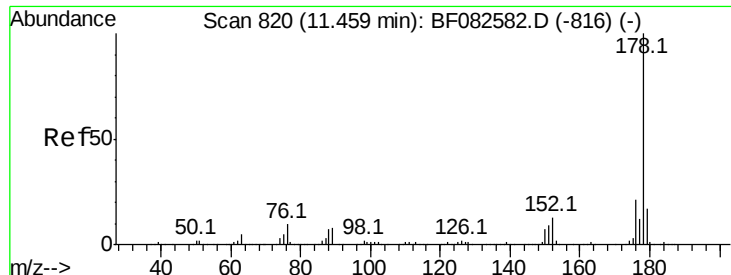
Tot Ion:163 Resp: 96654  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.6 4.0  
164 9.4 8.7 13.1



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 814  
Delta R.T. -0.02 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

Tgt Ion:188 Resp: 445772  
Ion Ratio Lower Upper  
188 100  
94 5.2 6.1 9.1#  
80 5.7 7.0 10.6#

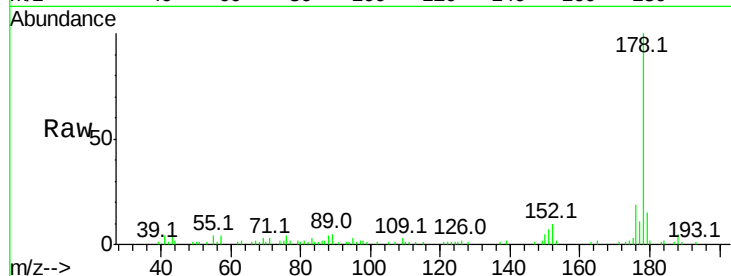




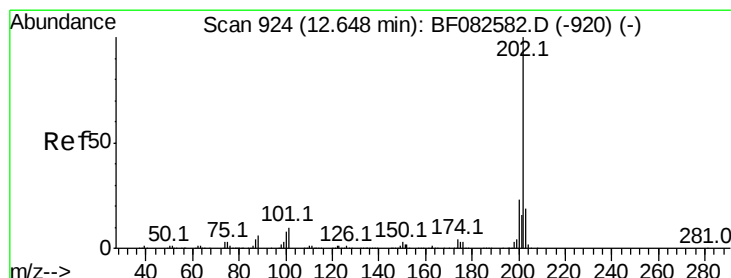
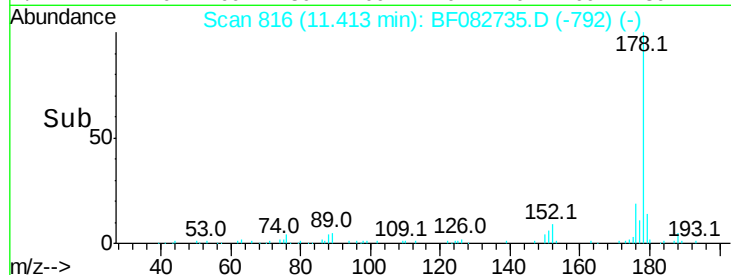
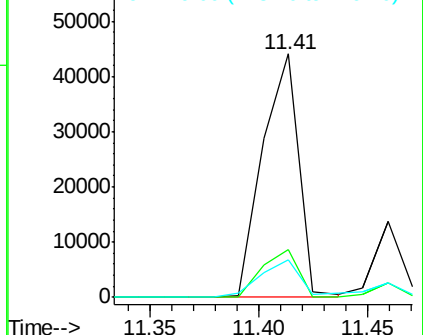
#70  
Phenanthrene  
Concen: 2.05 ng  
RT: 11.41 min Scan# 816  
Delta R.T. -0.02 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

Instrument :  
BNA\_F  
ClientSampleId :  
AVE-E-RA15.1-2

Tot Ion:178 Resp: 51455  
Ion Ratio Lower Upper  
178 100  
176 19.4 17.0 25.4  
179 15.2 13.4 20.0

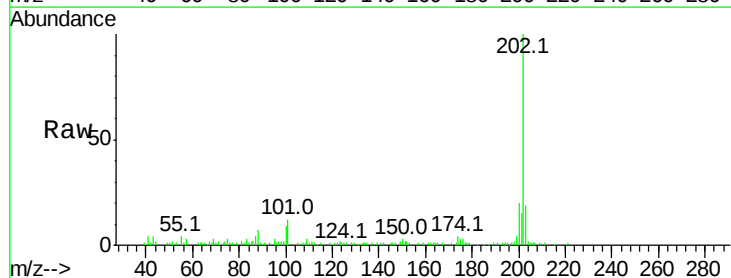


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

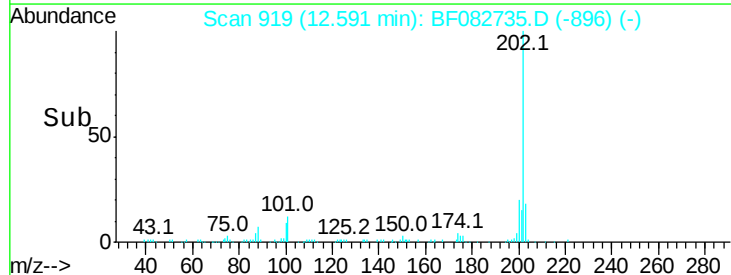
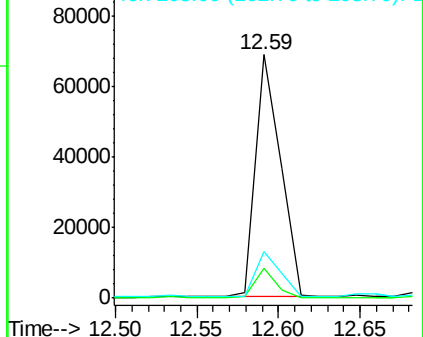


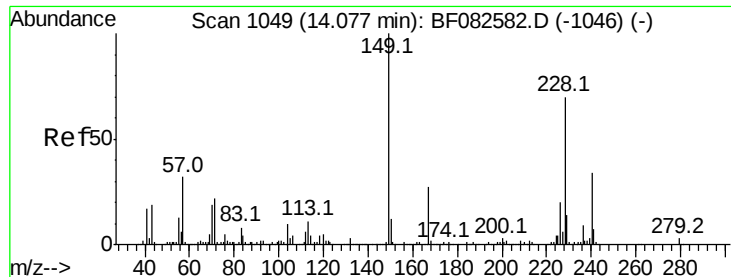
#74  
Fluoranthene  
Concen: 2.87 ng  
RT: 12.59 min Scan# 919  
Delta R.T. -0.03 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

Tgt Ion:202 Resp: 73721  
Ion Ratio Lower Upper  
202 100  
101 12.4 0.0 30.5  
203 19.0 0.0 38.5



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 1044

Delta R.T. -0.03 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

Instrument :

BNA\_F

ClientSampleId :

AVE-E-RA15.1-2

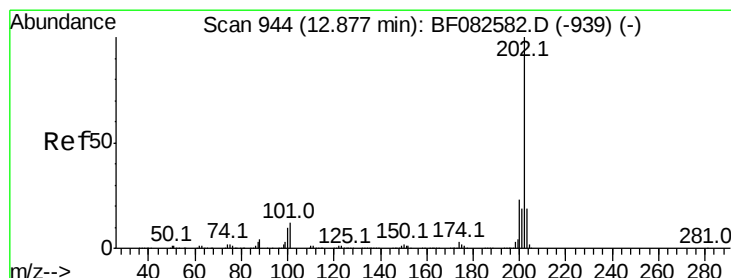
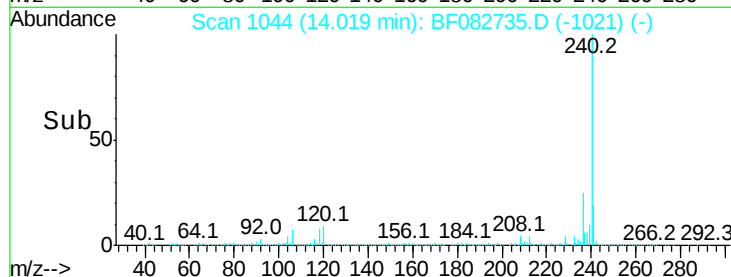
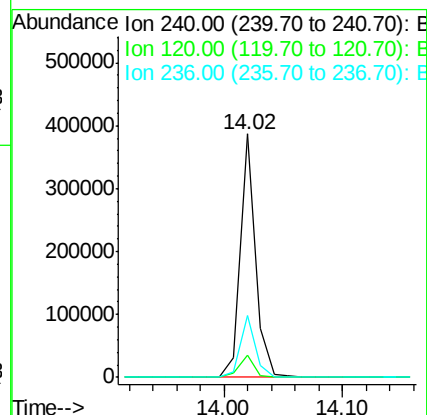
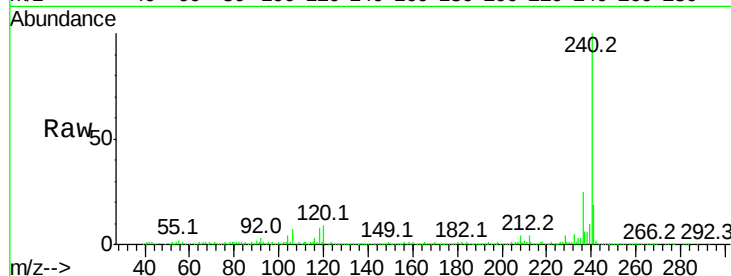
Tot Ion:240 Resp: 346179

Ion Ratio Lower Upper

240 100

120 8.9 10.9 16.3#

236 25.5 21.6 32.4



#77

Pyrene

Concen: 2.62 ng

RT: 12.82 min Scan# 939

Delta R.T. -0.03 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

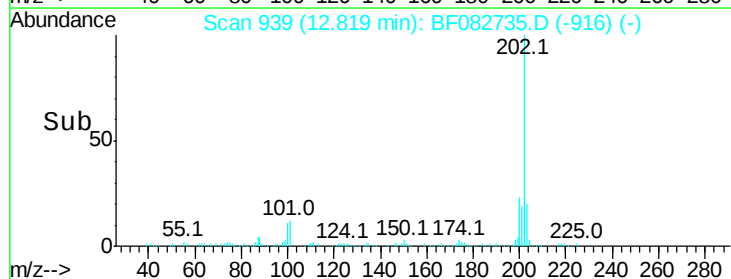
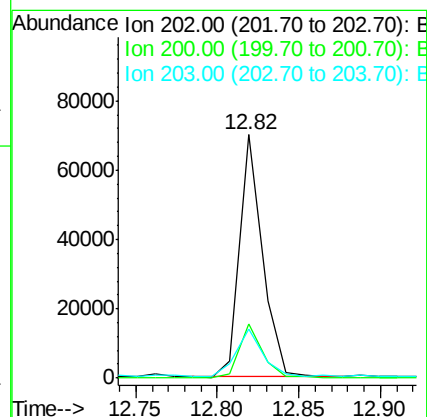
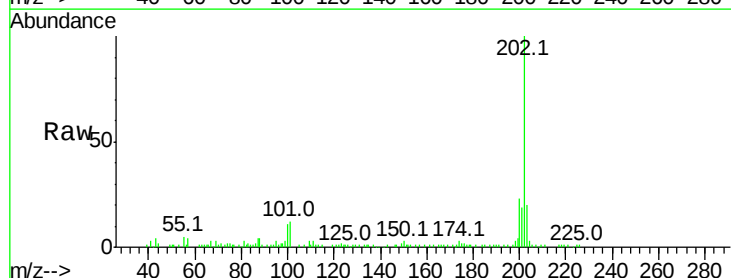
Tgt Ion:202 Resp: 67262

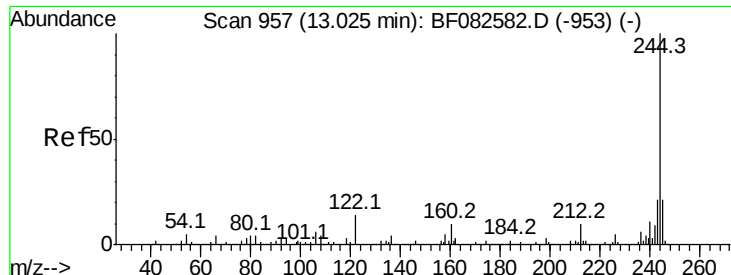
Ion Ratio Lower Upper

202 100

200 22.5 18.7 28.1

203 20.0 14.8 22.2





#78

Terphenyl-d14

Concen: 17.92 ng

RT: 12.97 min Scan# 952

Delta R.T. -0.03 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

Instrument :

BNA\_F

ClientSampleId :

AVE-E-RA15.1-2

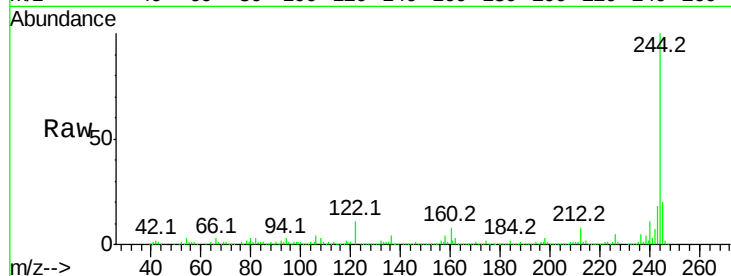
Tot Ion:244 Resp: 283483

Ion Ratio Lower Upper

244 100

212 8.0 7.6 11.4

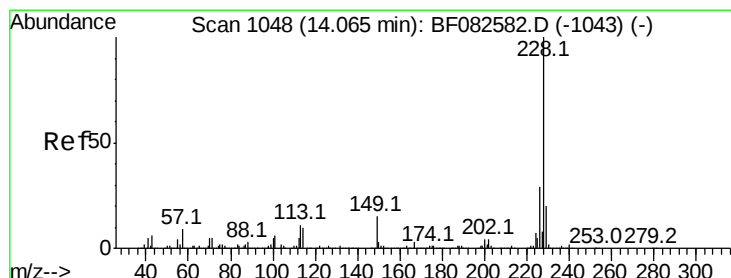
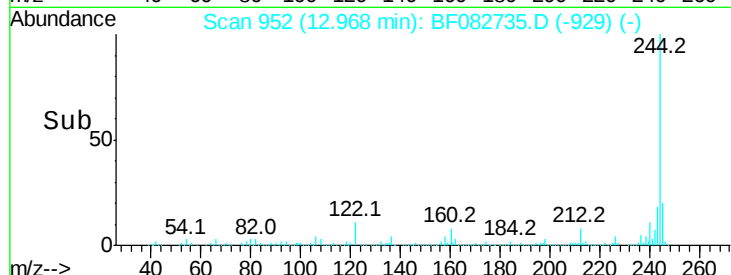
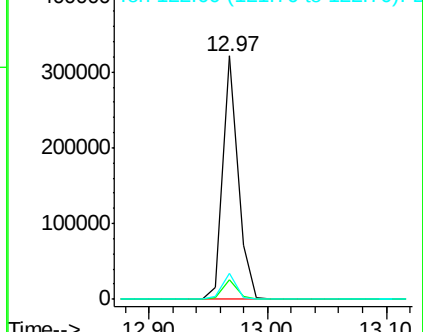
122 10.7 11.3 16.9#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 2.05 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.03 min

Lab File: BF082735.D

Acq: 5 Nov 2015 18:03

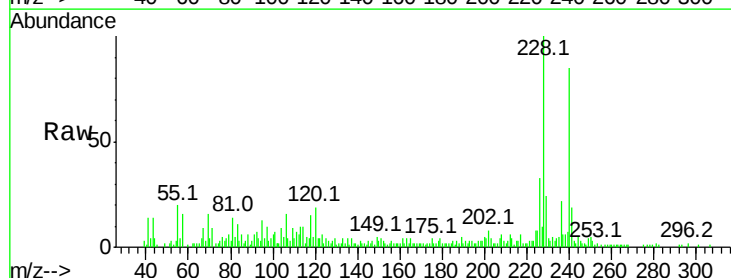
Tgt Ion:228 Resp: 44985

Ion Ratio Lower Upper

228 100

226 33.0 23.4 35.2

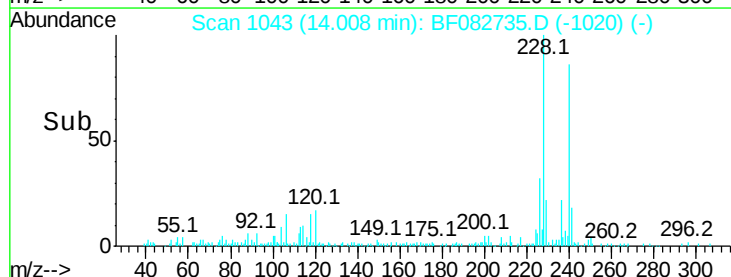
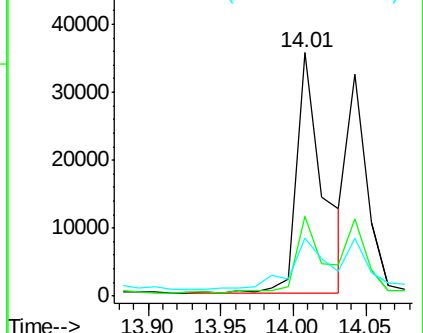
229 23.7 16.3 24.5

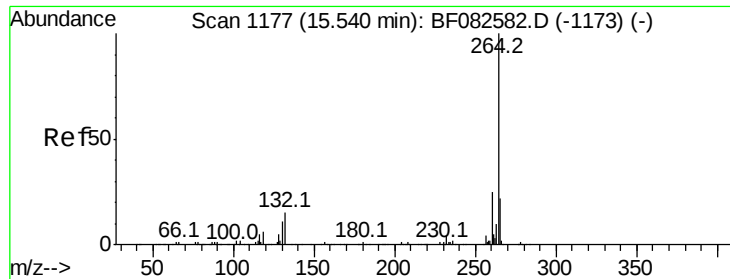


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

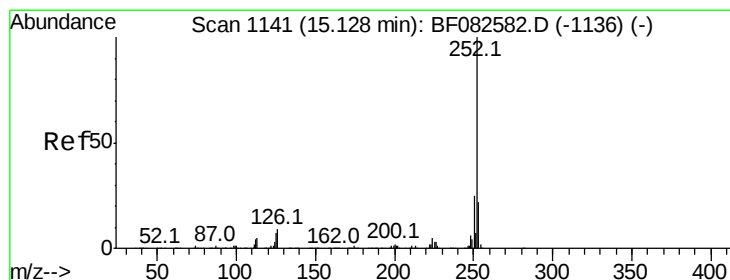
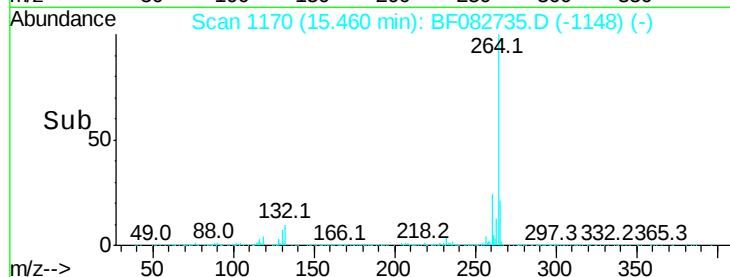
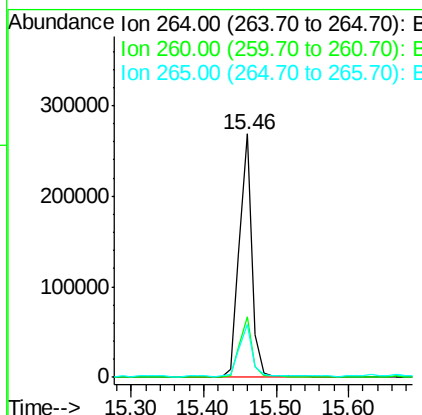
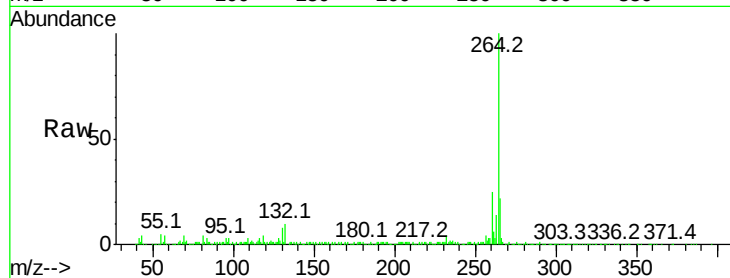




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.46 min Scan# 1170  
Delta R.T. -0.05 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

Instrument :  
BNA\_F  
ClientSampleId :  
AVE-E-RA15.1-2

Tot Ion:264 Resp: 322694  
Ion Ratio Lower Upper  
264 100  
260 24.7 19.8 29.6  
265 21.5 17.4 26.0



#87  
Benzo(b)fluoranthene  
Concen: 2.08 ng m  
RT: 15.05 min Scan# 1134  
Delta R.T. -0.05 min  
Lab File: BF082735.D  
Acq: 5 Nov 2015 18:03

Tgt Ion:252 Resp: 46351  
Ion Ratio Lower Upper  
252 100  
253 27.8 17.8 26.8#  
125 14.1 5.4 8.2#

