

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF080516\  
 Data File : BF089629.D  
 Acq On : 5 Aug 2016 14:21  
 Operator : UM/SJ  
 Sample : H4292-02  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS6-0-2IN

Quant Time: Aug 05 23:03:24 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF080416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 05 01:39:23 2016  
 Response via : Initial Calibration

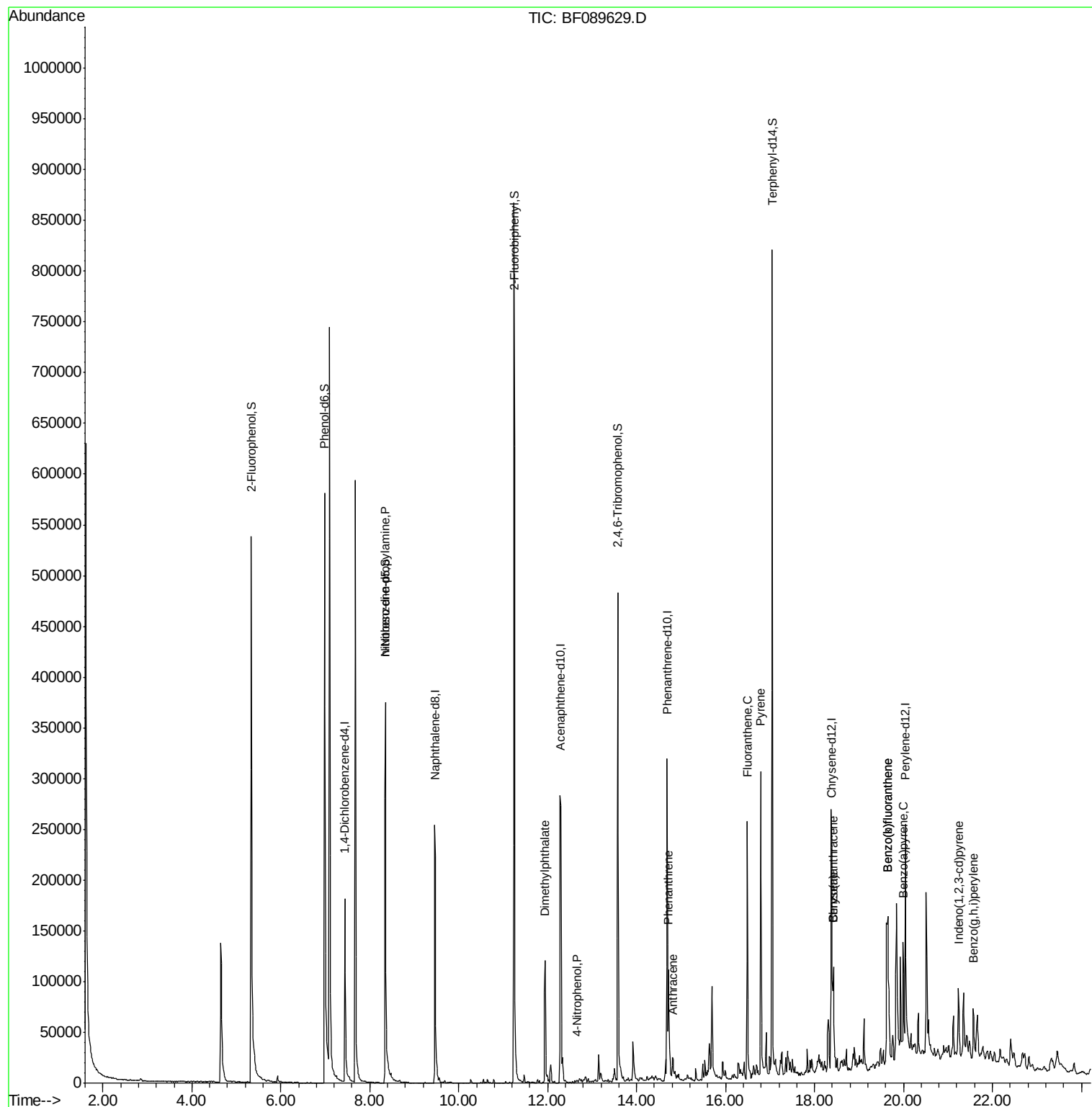
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.44  | 152  | 50369    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 9.46  | 136  | 215320   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 12.28 | 164  | 97899    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 14.69 | 188  | 172036   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 18.39 | 240  | 100886   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 20.05 | 264  | 101160   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 292728   | 97.41 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.98  | 99   | 389312   | 95.50 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.35  | 82   | 248250   | 63.77 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 13.58 | 330  | 73513    | 90.99 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 11.24 | 172  | 455044   | 60.41 | ng    | -0.01    |
| 78) Terphenyl-d14              | 17.05 | 244  | 309218   | 60.51 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 8.35  | 70   | 29442    | 10.00 | ng    | # 80     |
| 49) Dimethylphthalate          | 11.94 | 163  | 81824    | 10.66 | ng    | 99       |
| 55) 4-Nitrophenol              | 12.65 | 139  | 675      | 7.19  | ng    | # 21     |
| 70) Phenanthrene               | 14.72 | 178  | 67668    | 7.23  | ng    | 100      |
| 71) Anthracene                 | 14.82 | 178  | 24426    | 2.44  | ng    | 96       |
| 74) Fluoranthene               | 16.49 | 202  | 143838   | 14.96 | ng    | 97       |
| 77) Pyrene                     | 16.79 | 202  | 121926   | 13.67 | ng    | 96       |
| 80) Benzo(a)anthracene         | 18.42 | 228  | 52535    | 9.06  | ng    | 94       |
| 82) Chrysene                   | 18.42 | 228  | 53034    | 8.72  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.23 | 276  | 43146    | 9.34  | ng    | 94       |
| 87) Benzo(b)fluoranthene       | 19.65 | 252  | 110281   | 17.73 | ng    | # 97     |
| 88) Benzo(k)fluoranthene       | 19.65 | 252  | 110281   | 17.57 | ng    | 99       |
| 89) Benzo(a)pyrene             | 19.99 | 252  | 60392    | 10.37 | ng    | # 91     |
| 91) Benzo(g,h,i)perylene       | 21.57 | 276  | 40312    | 7.24  | ng    | 98       |

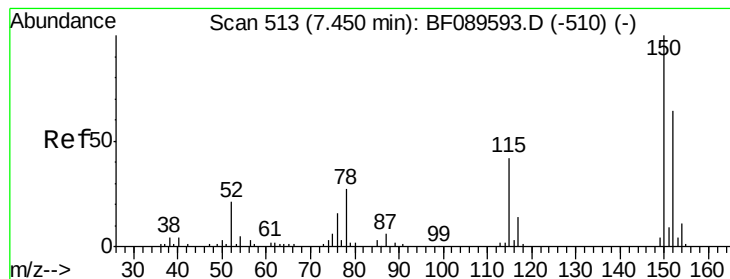
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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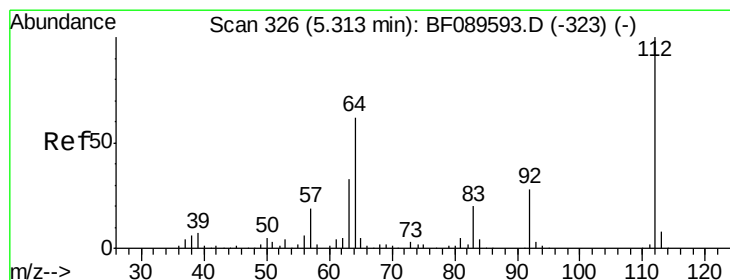
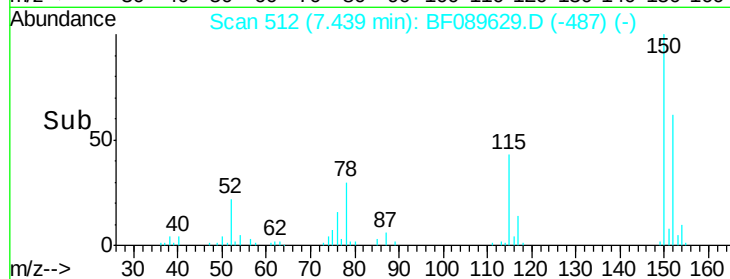
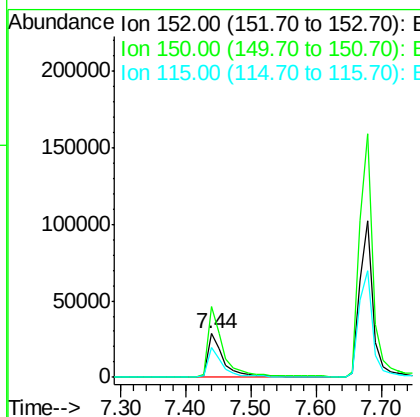
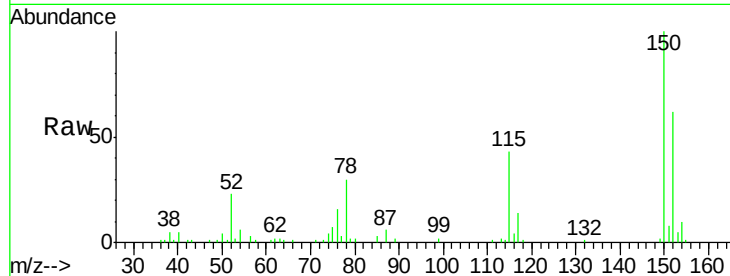




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.44 min Scan# 512  
 Delta R.T. -0.01 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

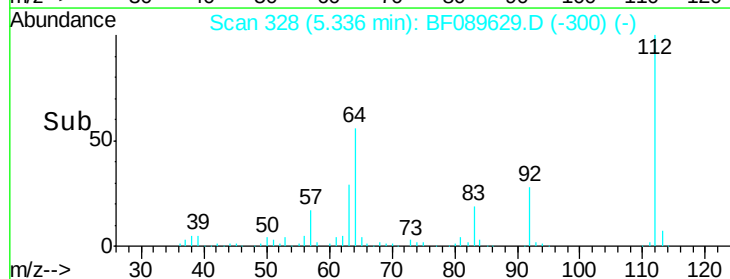
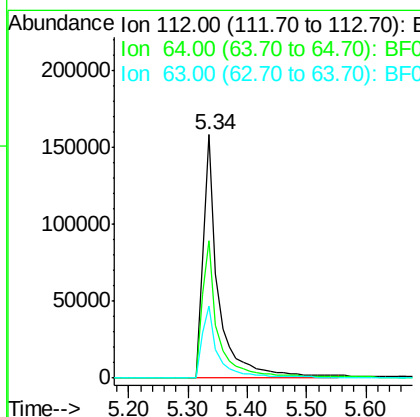
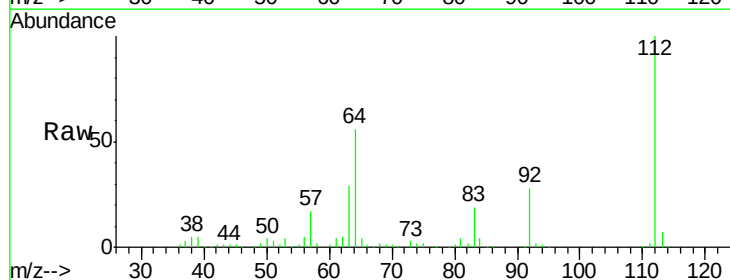
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS6-0-2IN

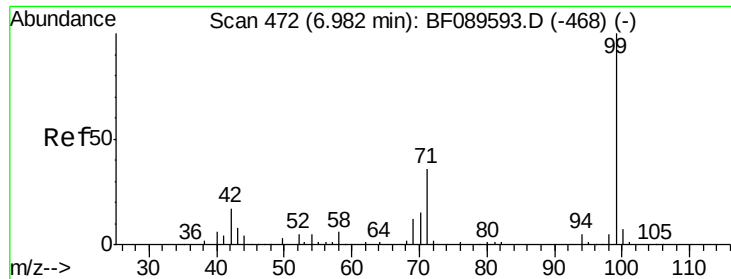
Tgt Ion:152 Resp: 50369  
 Ion Ratio Lower Upper  
 152 100  
 150 160.1 125.5 188.3  
 115 68.7 52.0 78.0



#5  
 2-Fluorophenol  
 Concen: 97.41 ng  
 RT: 5.34 min Scan# 328  
 Delta R.T. 0.02 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

Tgt Ion:112 Resp: 292728  
 Ion Ratio Lower Upper  
 112 100  
 64 56.2 49.9 74.9  
 63 29.5 26.1 39.1





#7

Phenol-d6

Concen: 95.50 ng

RT: 6.98 min Scan# 472

Delta R.T. 0.00 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

Instrument :

BNA\_F

ClientSampleId :

SS6-0-2IN

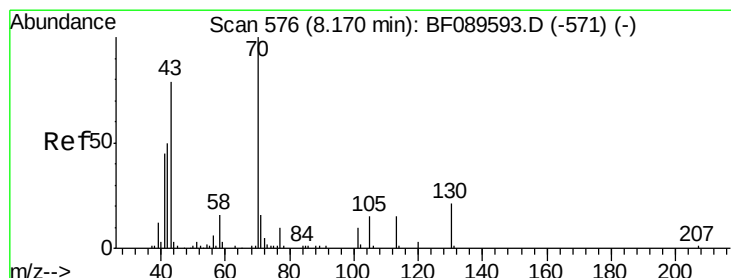
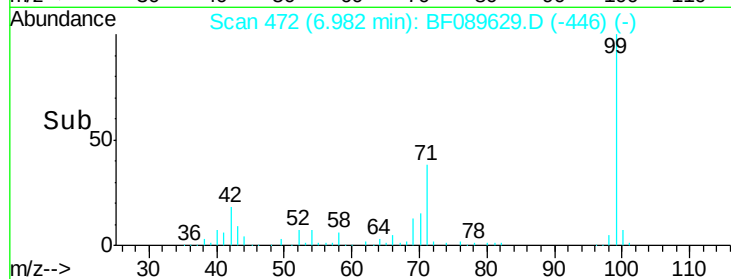
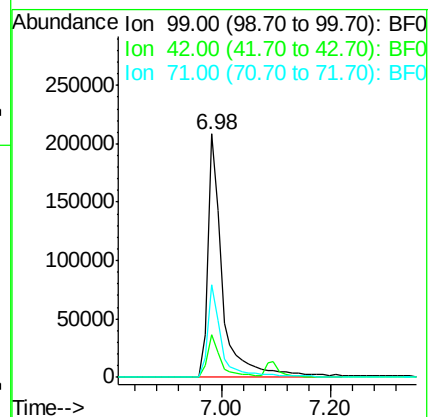
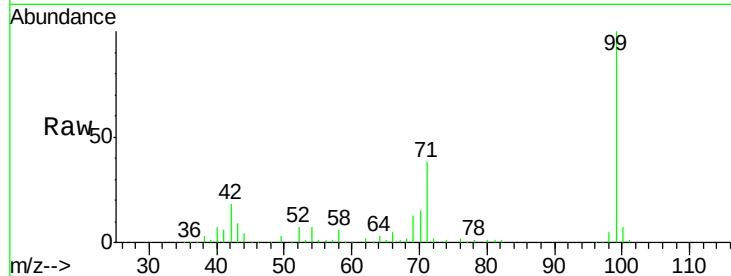
Tgt Ion: 99 Resp: 389312

Ion Ratio Lower Upper

99 100

42 17.8 13.7 20.5

71 38.1 29.0 43.4



#19

n-Nitroso-di-n-propylamine

Concen: 10.00 ng

RT: 8.35 min Scan# 592

Delta R.T. 0.18 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

Tgt Ion: 70 Resp: 29442

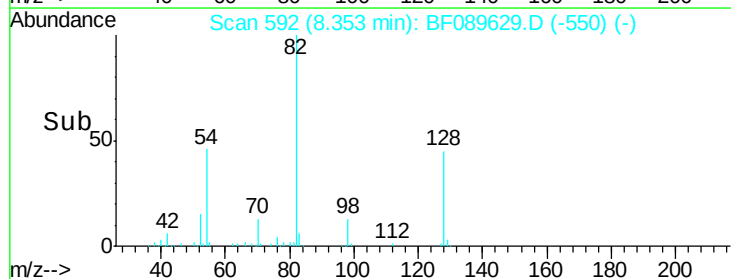
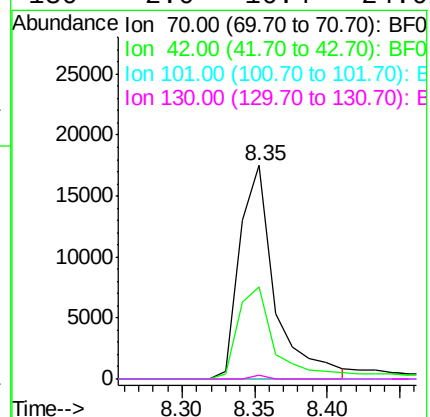
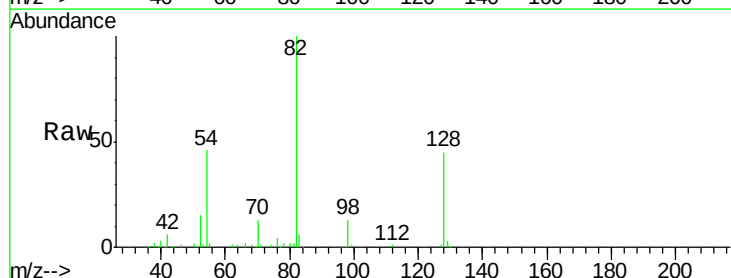
Ion Ratio Lower Upper

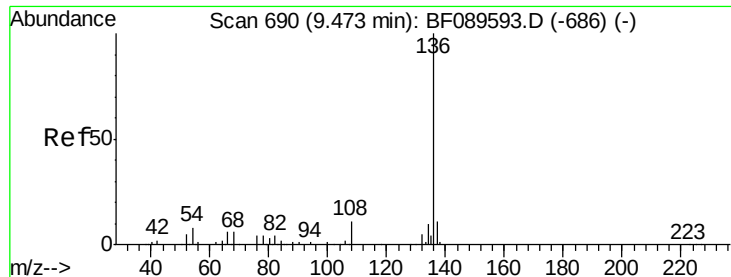
70 100

42 42.9 40.2 60.2

101 0.0 7.8 11.6#

130 2.0 16.4 24.6#

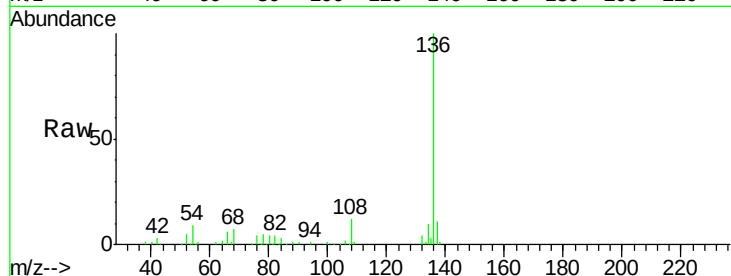




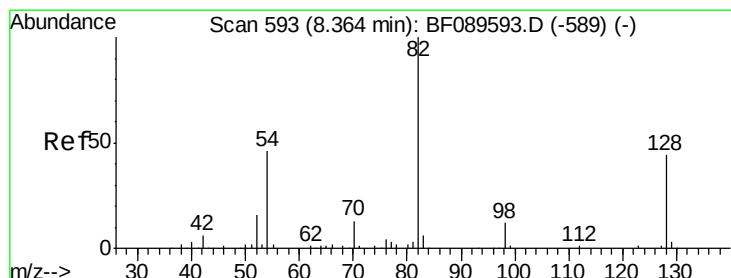
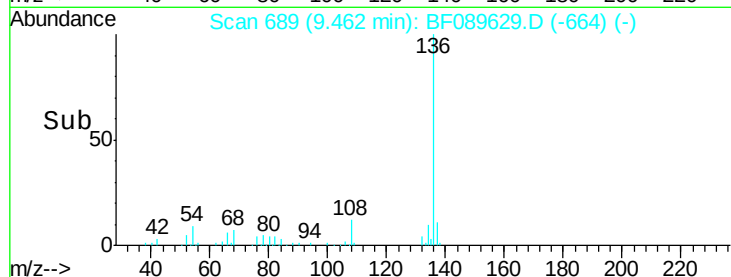
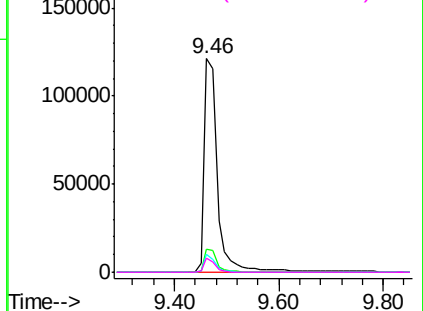
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.46 min Scan# 689  
Delta R.T. -0.01 min  
Lab File: BF089629.D  
Acq: 5 Aug 2016 14:21

Instrument :  
BNA\_F  
ClientSampleId :  
SS6-0-2IN

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 215320 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.6   | 12.8   |
| 54       | 8.6   | 6.0   | 9.0    |
| 68       | 6.6   | 4.6   | 6.8    |

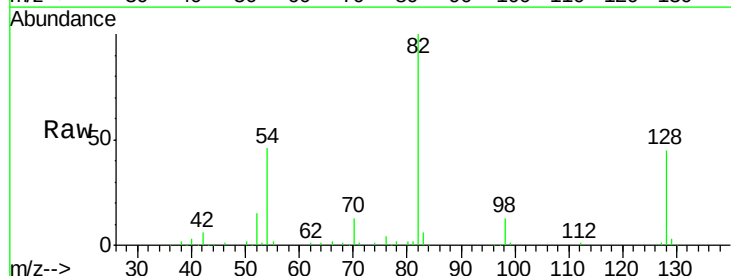


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

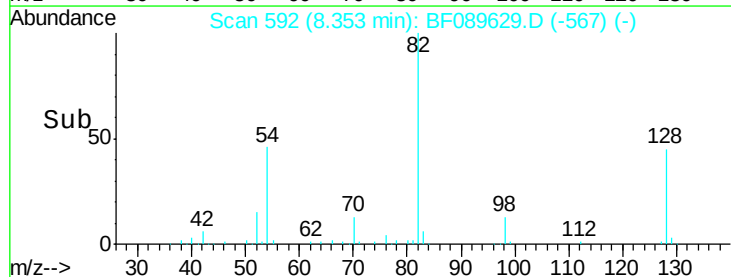
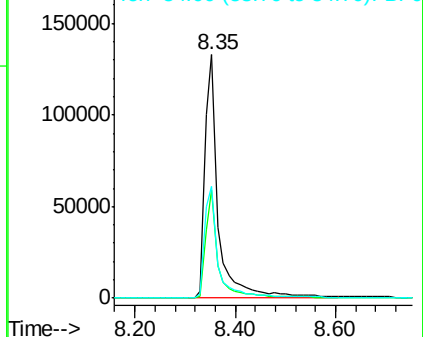


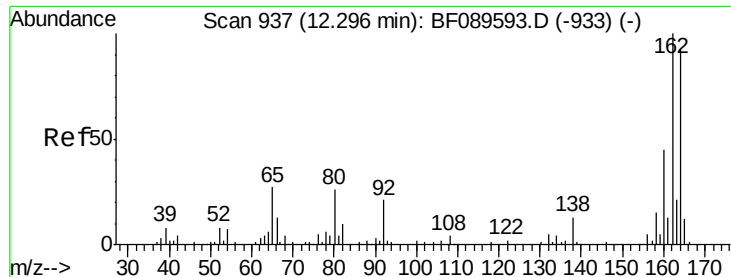
#23  
Nitrobenzene-d5  
Concen: 63.77 ng  
RT: 8.35 min Scan# 592  
Delta R.T. -0.01 min  
Lab File: BF089629.D  
Acq: 5 Aug 2016 14:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 248250 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.6  | 35.4  | 53.0   |
| 54       | 45.9  | 36.4  | 54.6   |



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

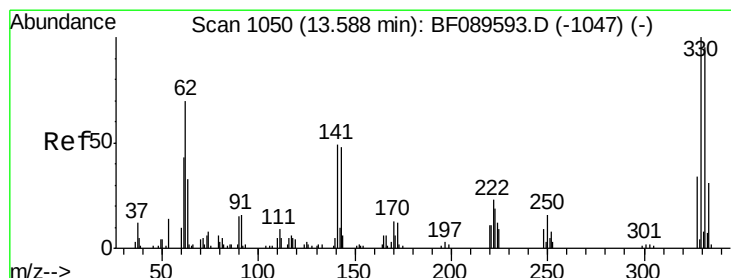
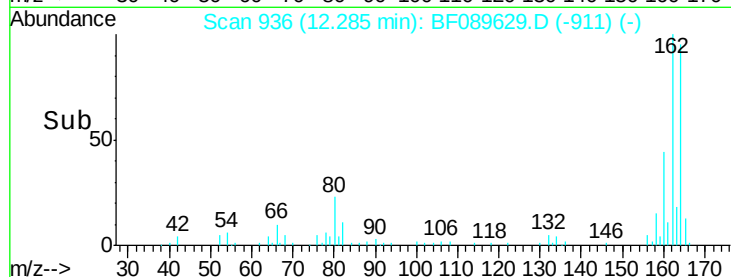
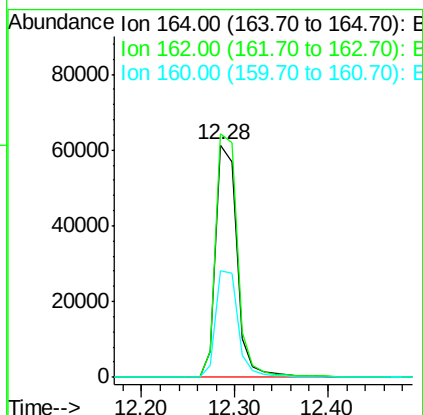
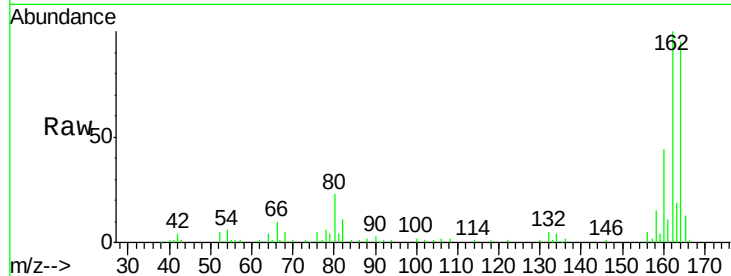




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.28 min Scan# 936  
 Delta R.T. -0.01 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

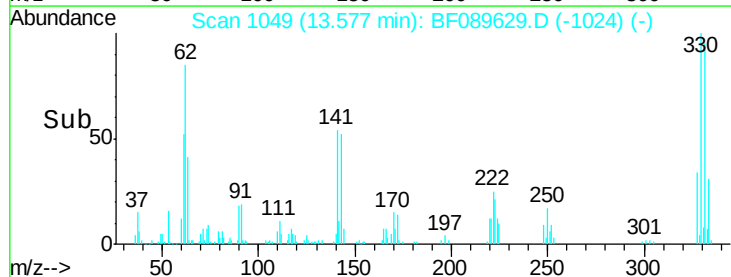
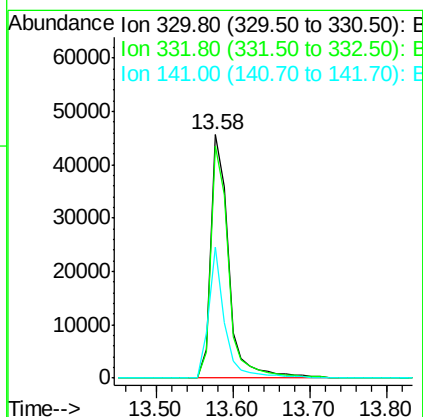
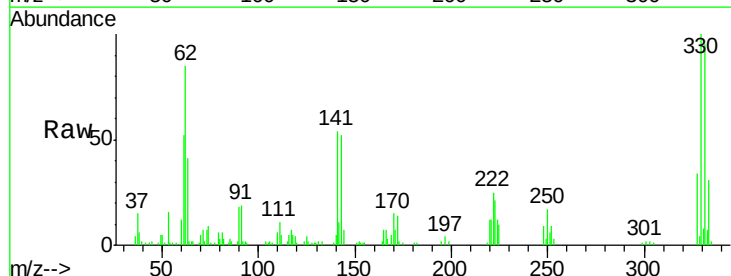
Instrument :  
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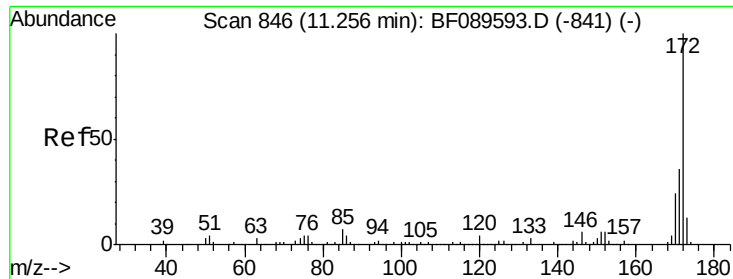
Tgt Ion:164 Resp: 97899  
 Ion Ratio Lower Upper  
 164 100  
 162 104.8 85.7 128.5  
 160 46.1 38.2 57.4



#41  
 2,4,6-Tribromophenol  
 Concen: 90.99 ng  
 RT: 13.58 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

Tgt Ion:330 Resp: 73513  
 Ion Ratio Lower Upper  
 330 100  
 332 94.9 77.0 115.6  
 141 48.1 38.6 57.8

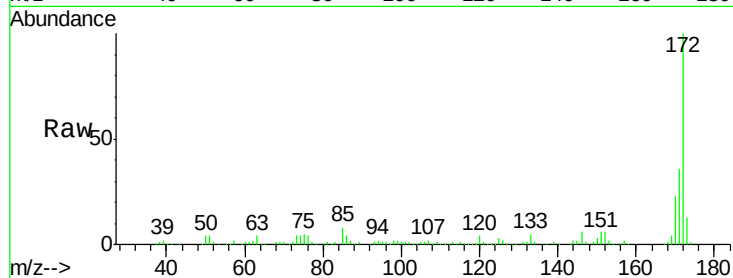




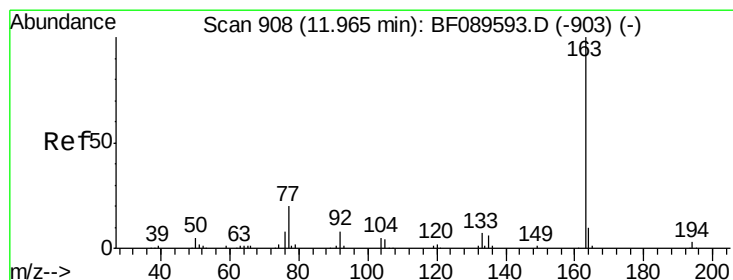
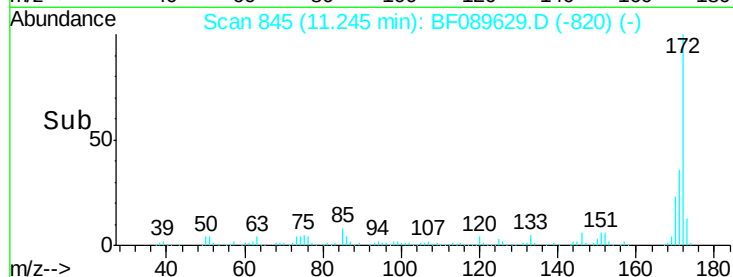
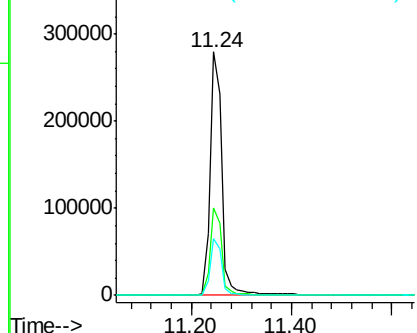
#44  
2-Fluorobiphenyl  
Concen: 60.41 ng  
RT: 11.24 min Scan# 845  
Delta R.T. -0.01 min  
Lab File: BF089629.D  
Acq: 5 Aug 2016 14:21

Instrument :  
BNA\_F  
ClientSampleId :  
SS6-0-2IN

Tgt Ion:172 Resp: 455044  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.9 43.3  
170 23.2 19.0 28.6

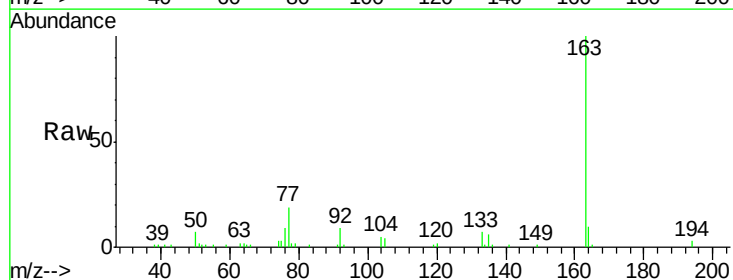


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

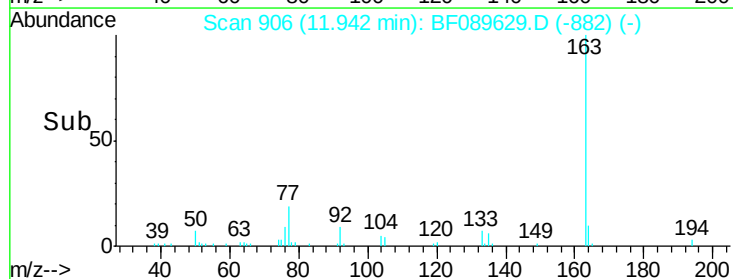
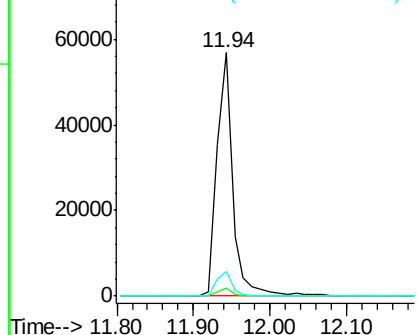


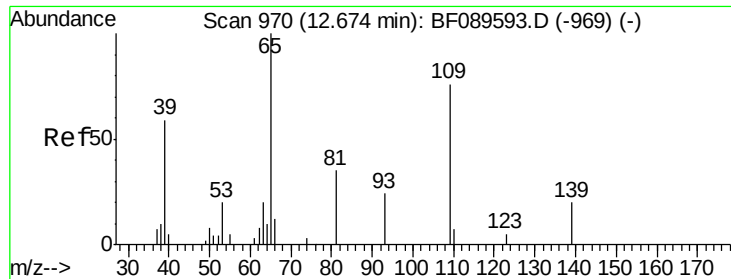
#49  
Dimethylphthalate  
Concen: 10.66 ng  
RT: 11.94 min Scan# 906  
Delta R.T. -0.02 min  
Lab File: BF089629.D  
Acq: 5 Aug 2016 14:21

Tgt Ion:163 Resp: 81824  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.7 4.1  
164 9.9 7.8 11.6



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





#55

4-Nitrophenol

Concen: 7.19 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.02 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

Instrument :

BNA\_F

ClientSampleId :

SS6-0-2IN

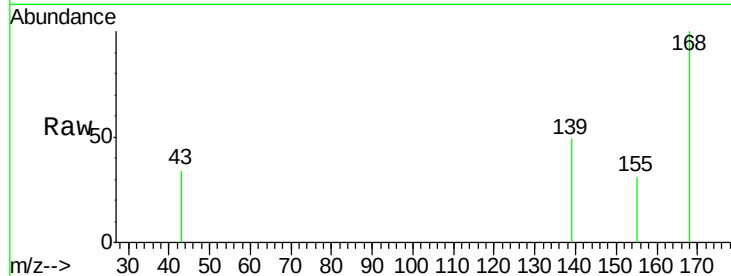
Tgt Ion:139 Resp: 675

Ion Ratio Lower Upper

139 100

109 0.0 28.9 68.9#

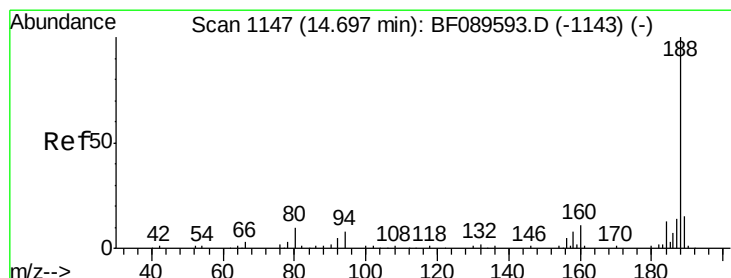
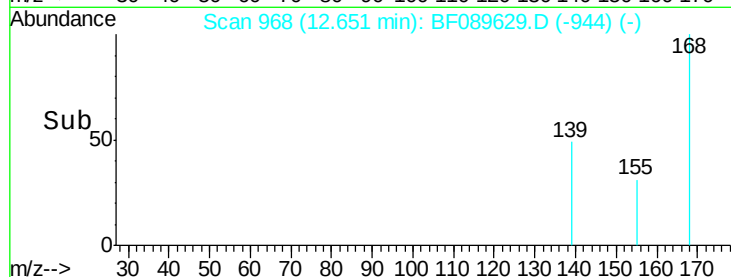
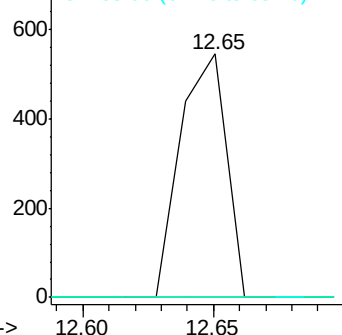
65 0.0 49.2 89.2#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.69 min Scan# 1146

Delta R.T. -0.01 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

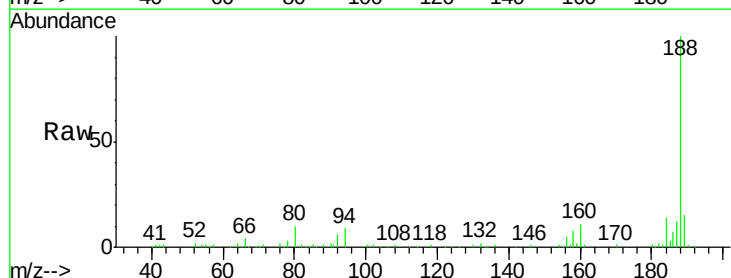
Tgt Ion:188 Resp: 172036

Ion Ratio Lower Upper

188 100

94 9.4 6.5 9.7

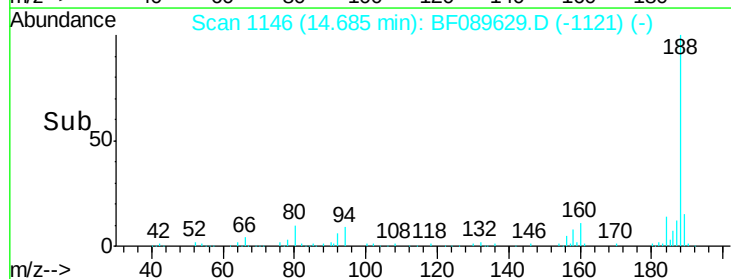
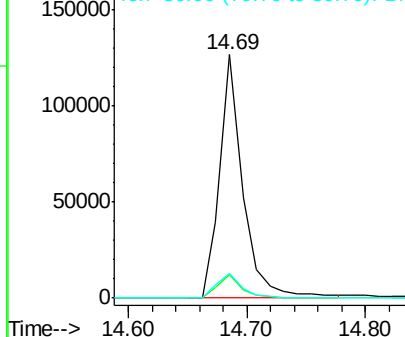
80 10.4 8.0 12.0



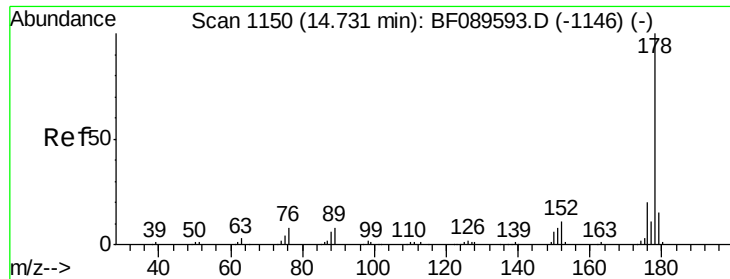
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0







#70

Phenanthrene

Concen: 7.23 ng

RT: 14.72 min Scan# 1149

Delta R.T. -0.01 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

Instrument :

BNA\_F

ClientSampleId :

SS6-0-2IN

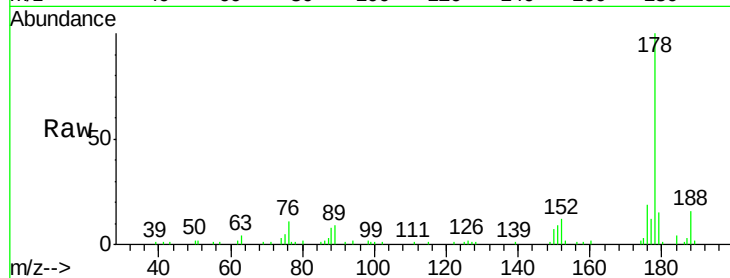
Tgt Ion:178 Resp: 67668

Ion Ratio Lower Upper

178 100

176 19.4 15.7 23.5

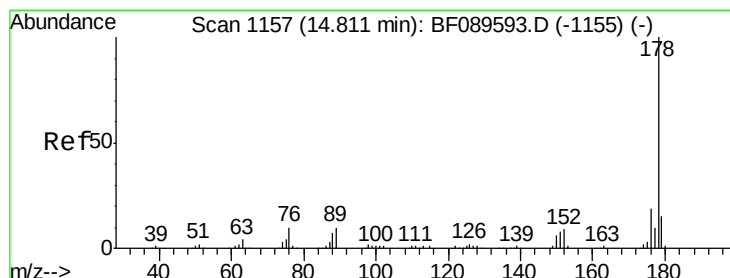
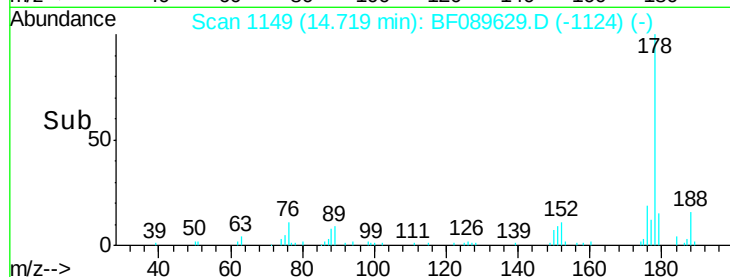
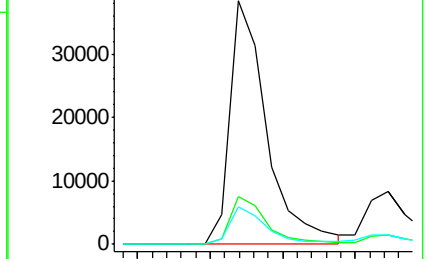
179 15.5 12.2 18.2



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: 2.44 ng

RT: 14.82 min Scan# 1158

Delta R.T. 0.01 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

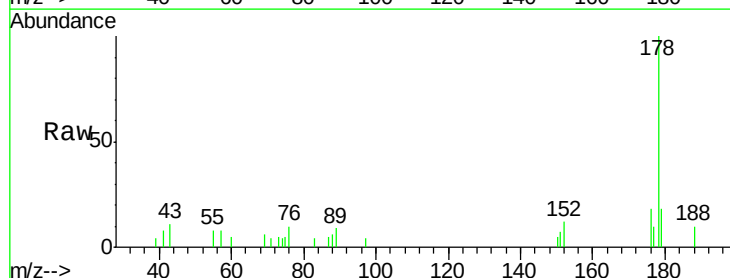
Tgt Ion:178 Resp: 24426

Ion Ratio Lower Upper

178 100

176 17.9 15.0 22.4

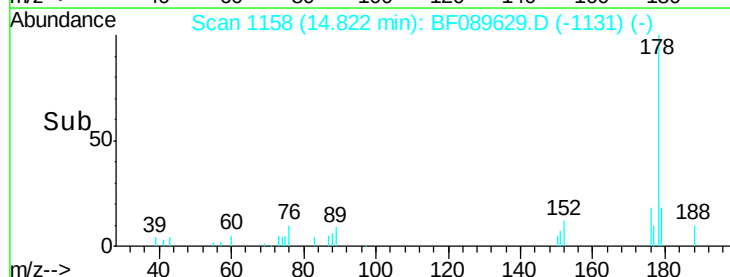
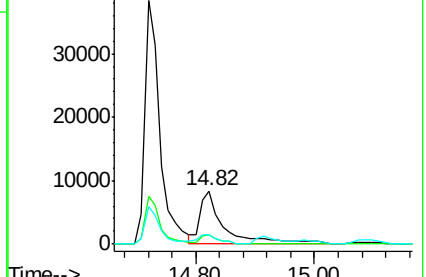
179 18.1 12.4 18.6

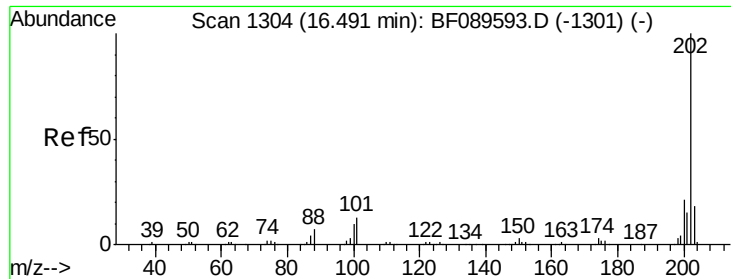


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

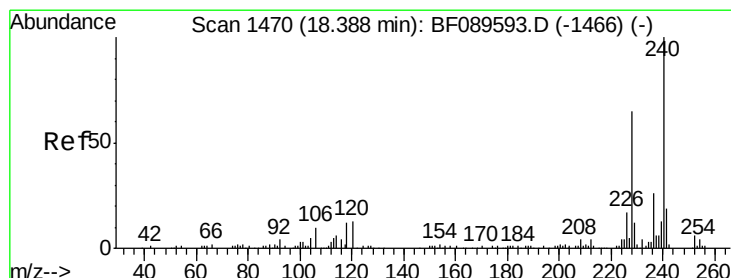
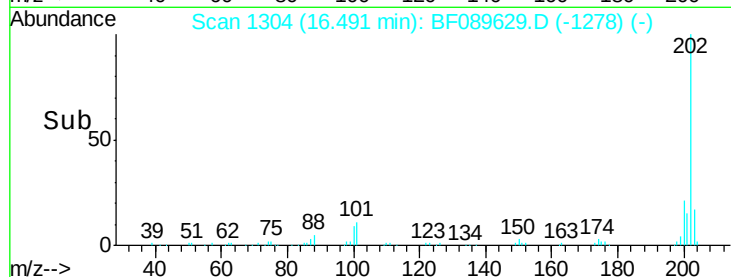
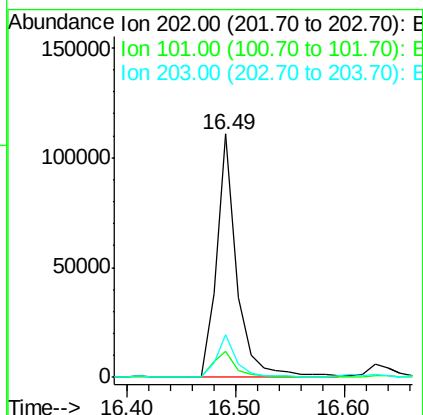
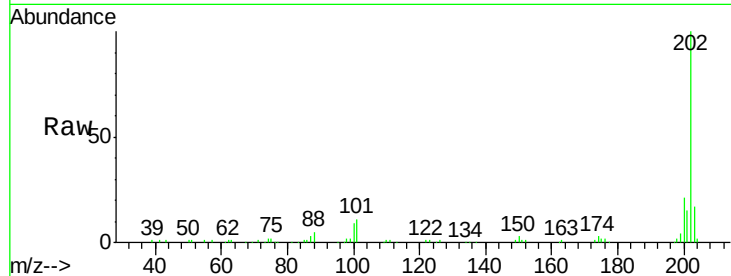




#74  
 Fluoranthene  
 Concen: 14.96 ng  
 RT: 16.49 min Scan# 1304  
 Delta R.T. 0.00 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

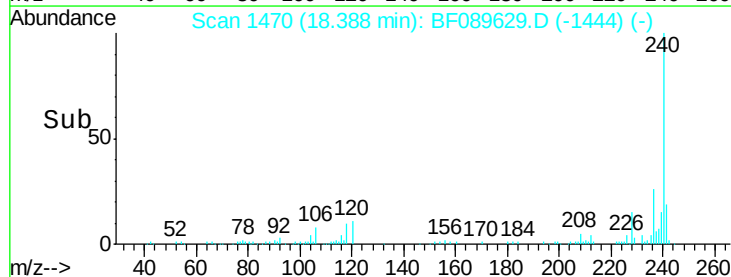
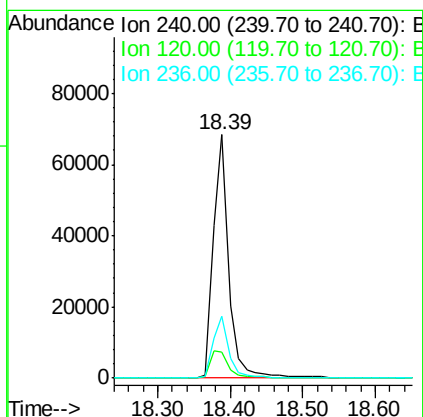
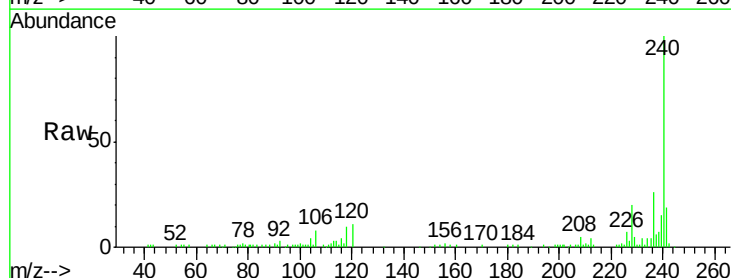
Instrument :  
 BNA\_F  
 ClientSampled :  
 SS6-0-2IN

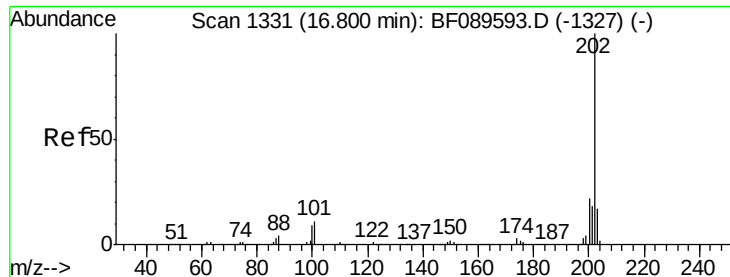
Tgt Ion: 202 Resp: 143838  
 Ion Ratio Lower Upper  
 202 100  
 101 10.9 0.0 32.7  
 203 17.3 0.0 37.8



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.39 min Scan# 1470  
 Delta R.T. 0.00 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

Tgt Ion: 240 Resp: 100886  
 Ion Ratio Lower Upper  
 240 100  
 120 10.8 10.6 15.8  
 236 25.6 20.6 30.8





#77

Pyrene

Concen: 13.67 ng

RT: 16.79 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

Instrument :

BNA\_F

ClientSampleId :

SS6-0-2IN

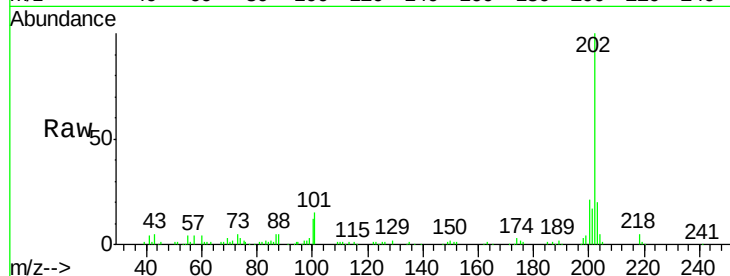
Tgt Ion:202 Resp: 121926

Ion Ratio Lower Upper

202 100

200 20.6 17.4 26.0

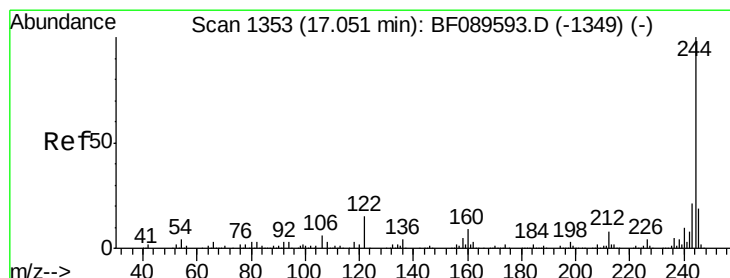
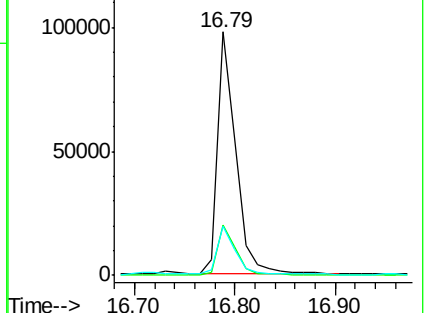
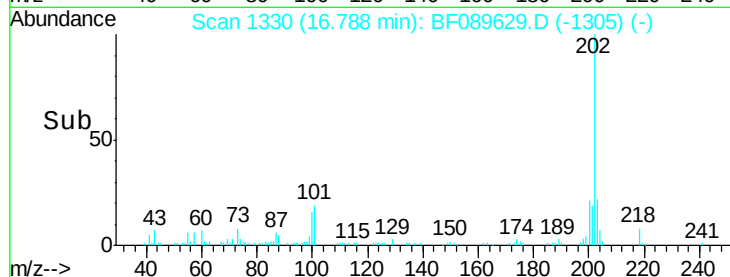
203 20.0 13.6 20.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 60.51 ng

RT: 17.05 min Scan# 1353

Delta R.T. 0.00 min

Lab File: BF089629.D

Acq: 5 Aug 2016 14:21

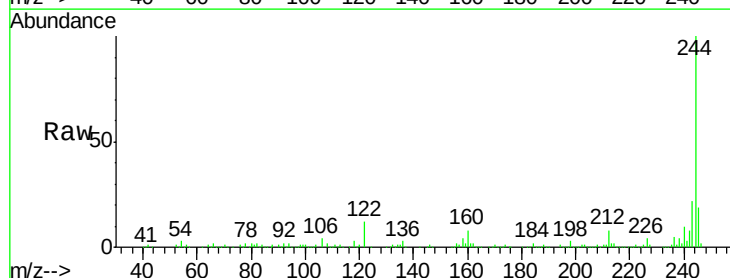
Tgt Ion:244 Resp: 309218

Ion Ratio Lower Upper

244 100

212 7.8 6.4 9.6

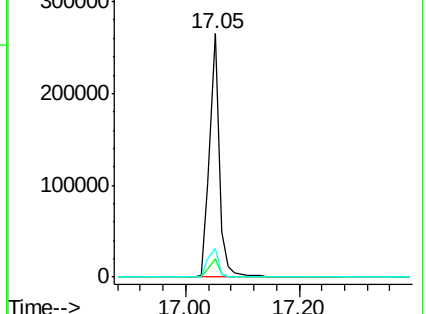
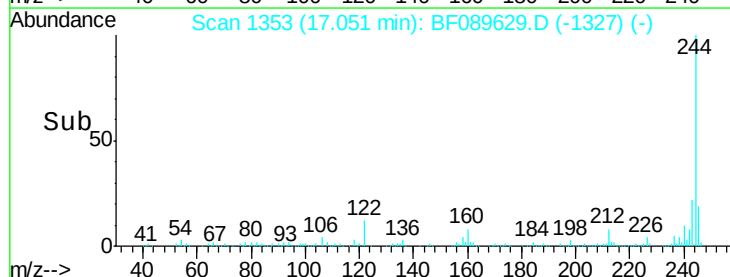
122 11.6 12.2 18.2#

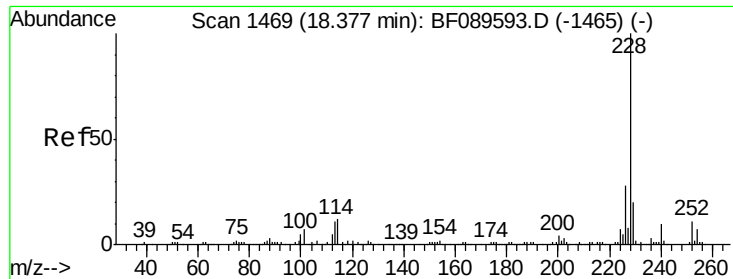


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

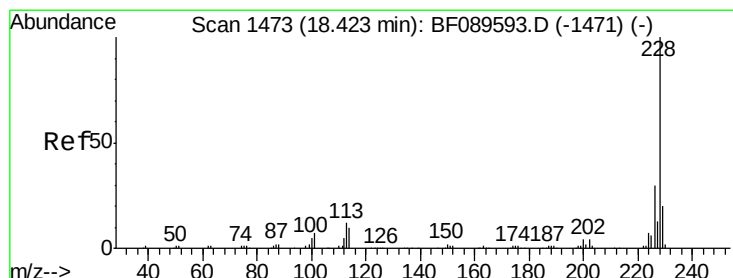
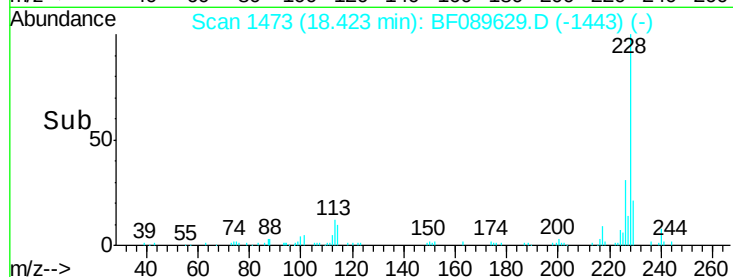
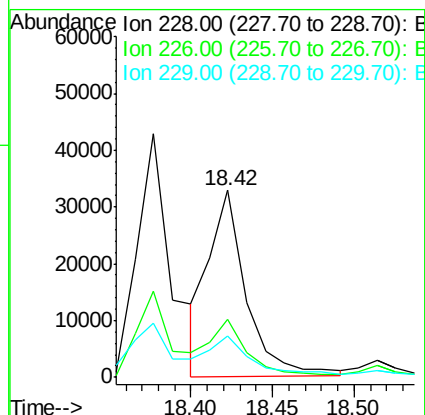
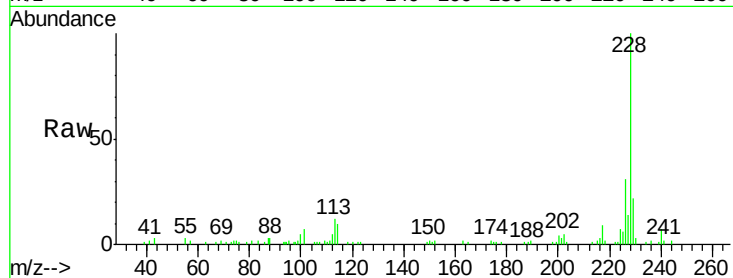




#80  
Benzo(a)anthracene  
Concen: 9.06 ng  
RT: 18.42 min Scan# 1473  
Delta R.T. 0.05 min  
Lab File: BF089629.D  
Acq: 5 Aug 2016 14:21

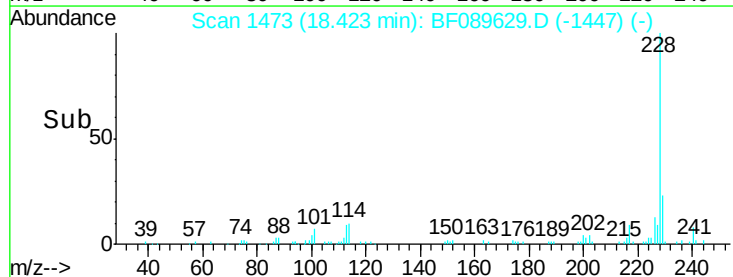
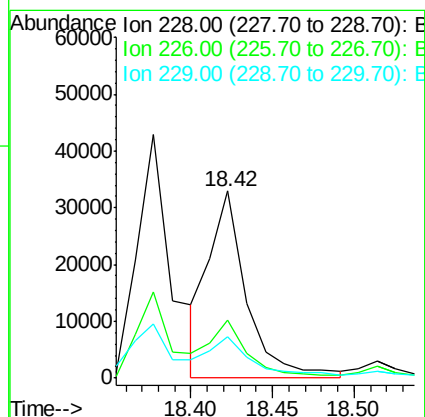
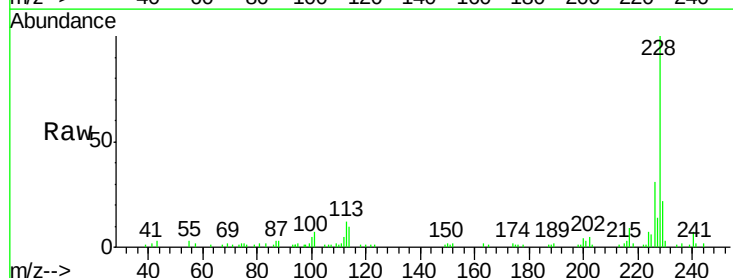
Instrument :  
BNA\_F  
ClientSampleId :  
SS6-0-2IN

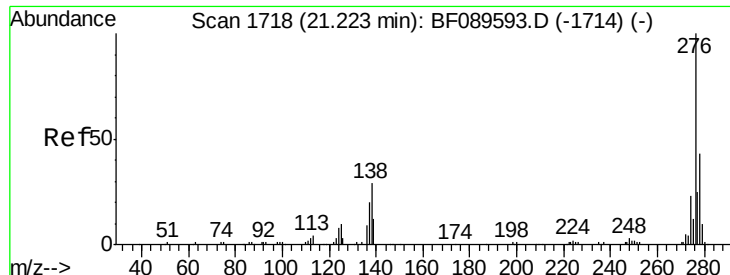
Tgt Ion:228 Resp: 52535  
Ion Ratio Lower Upper  
228 100  
226 31.0 22.3 33.5  
229 22.2 15.9 23.9



#82  
Chrysene  
Concen: 8.72 ng  
RT: 18.42 min Scan# 1473  
Delta R.T. 0.00 min  
Lab File: BF089629.D  
Acq: 5 Aug 2016 14:21

Tgt Ion:228 Resp: 53034  
Ion Ratio Lower Upper  
228 100  
226 31.0 24.2 36.2  
229 22.2 16.0 24.0

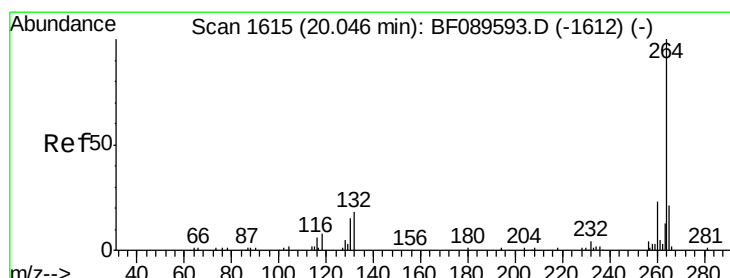
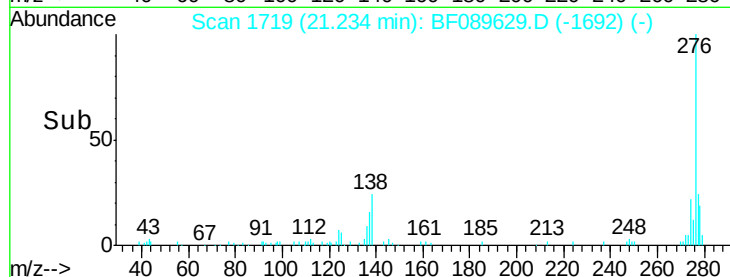
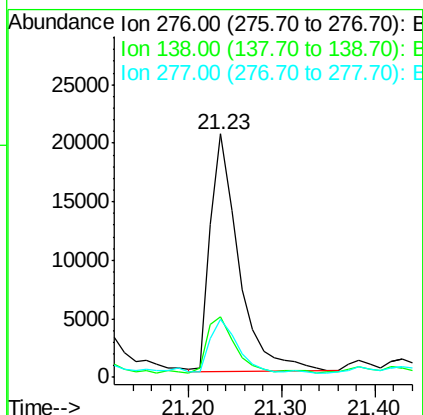
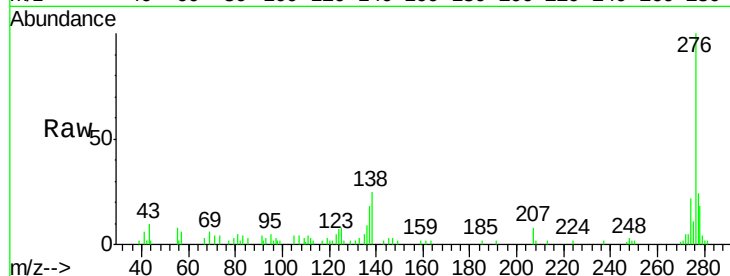




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.34 ng  
 RT: 21.23 min Scan# 1719  
 Delta R.T. 0.01 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS6-0-2IN

Tgt Ion:276 Resp: 43146  
 Ion Ratio Lower Upper  
 276 100  
 138 26.5 23.8 35.8  
 277 22.3 20.3 30.5



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.05 min Scan# 1615  
 Delta R.T. 0.00 min  
 Lab File: BF089629.D  
 Acq: 5 Aug 2016 14:21

Tgt Ion:264 Resp: 101160  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 18.7 28.1  
 265 21.4 16.5 24.7

