

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF080516\  
 Data File : BF089637.D  
 Acq On : 5 Aug 2016 18:52  
 Operator : UM/SJ  
 Sample : H4292-10  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS11-0-2IN

Quant Time: Aug 05 23:06:24 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  | 48038    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 9.47  | 136  | 195685   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 12.30 | 164  | 81151    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 14.69 | 188  | 119209   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 18.39 | 240  | 97530    | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 20.05 | 264  | 86265    | 20.00 | ng    | 0.00     |

|                             |       |     |        |        |    |       |
|-----------------------------|-------|-----|--------|--------|----|-------|
| System Monitoring Compounds |       |     |        |        |    |       |
| 5) 2-Fluorophenol           | 5.36  | 112 | 424112 | 147.97 | ng | 0.05  |
| 7) Phenol-d6                | 7.00  | 99  | 569549 | 146.49 | ng | 0.02  |
| 23) Nitrobenzene-d5         | 8.35  | 82  | 335139 | 94.73  | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 13.59 | 330 | 82609  | 123.35 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 11.26 | 172 | 553842 | 88.70  | ng | 0.00  |
| 78) Terphenyl-d14           | 17.05 | 244 | 292363 | 59.18  | ng | 0.00  |

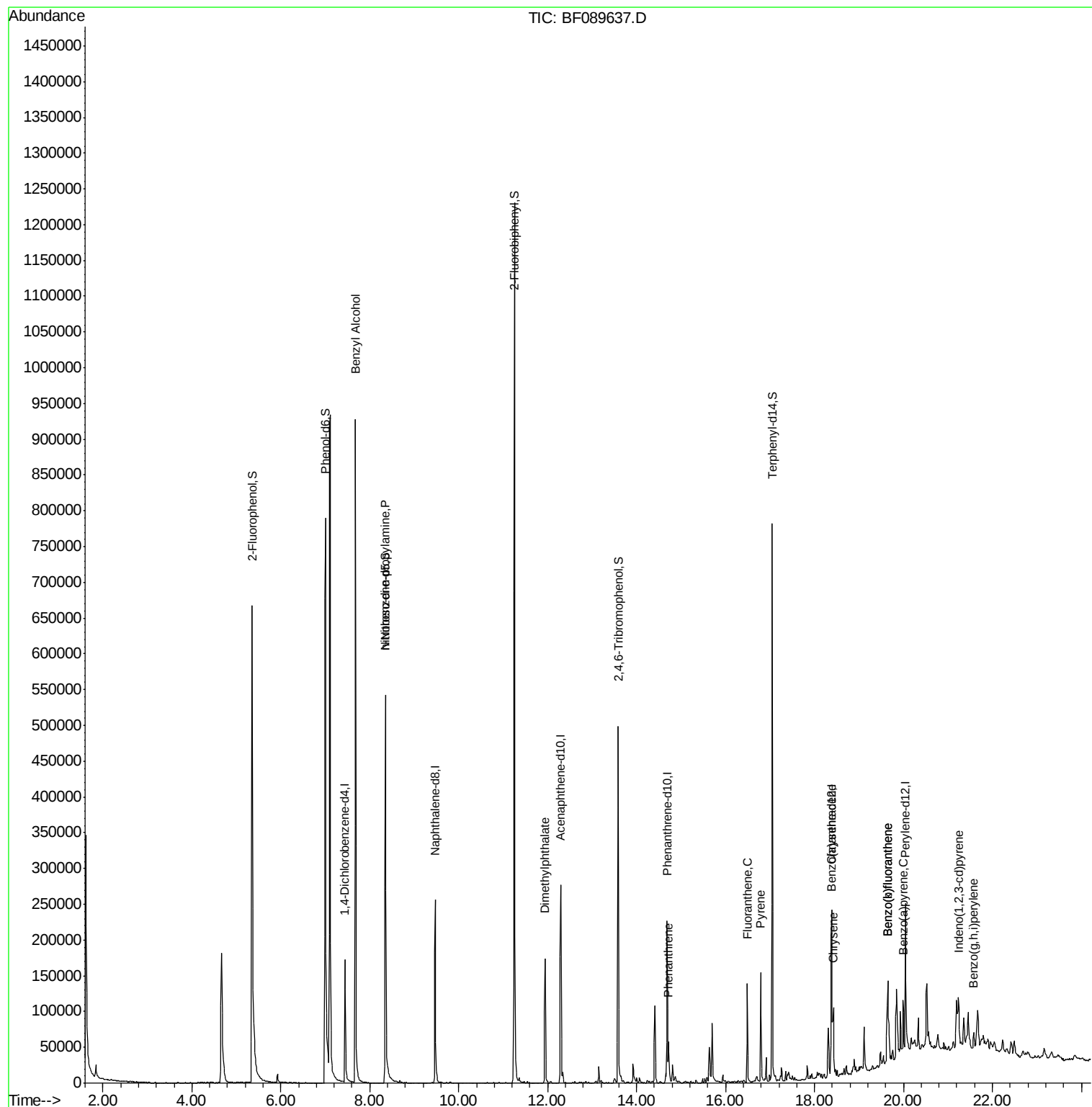
|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 15) Benzyl Alcohol             | 7.68  | 79  | 5569   | 2.18  | ng | # 45   |
| 19) n-Nitroso-di-n-propylamine | 8.35  | 70  | 41397  | 14.74 | ng | # 82   |
| 49) Dimethylphthalate          | 11.94 | 163 | 104105 | 16.37 | ng | 100    |
| 70) Phenanthrene               | 14.72 | 178 | 35814  | 5.53  | ng | 98     |
| 74) Fluoranthene               | 16.49 | 202 | 76272  | 11.45 | ng | 97     |
| 77) Pyrene                     | 16.79 | 202 | 68415  | 7.93  | ng | # 95   |
| 80) Benzo(a)anthracene         | 18.38 | 228 | 46152  | 8.24  | ng | 98     |
| 82) Chrysene                   | 18.42 | 228 | 43579  | 7.41  | ng | 99     |
| 85) Indeno(1,2,3-cd)pyrene     | 21.23 | 276 | 20590  | 4.61  | ng | # 88   |
| 87) Benzo(b)fluoranthene       | 19.65 | 252 | 82713  | 15.59 | ng | # 95   |
| 88) Benzo(k)fluoranthene       | 19.65 | 252 | 82713  | 15.45 | ng | 98     |
| 89) Benzo(a)pyrene             | 19.99 | 252 | 41899  | 8.43  | ng | # 93   |
| 91) Benzo(g,h,i)perylene       | 21.58 | 276 | 20186  | 4.25  | ng | 95     |

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

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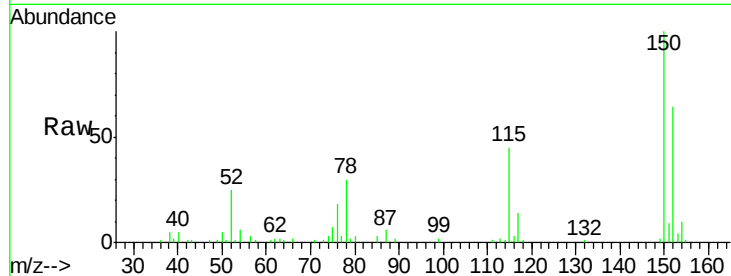




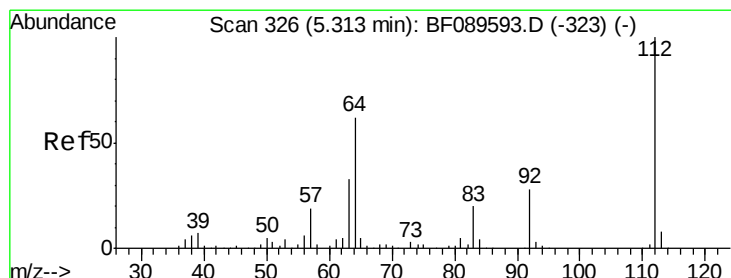
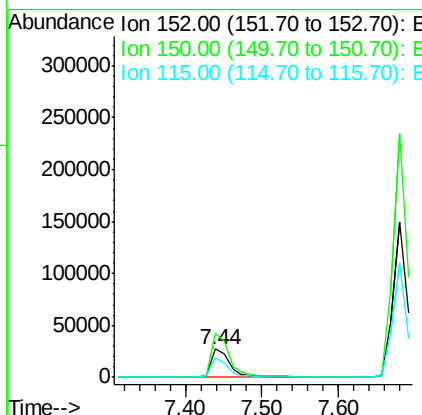
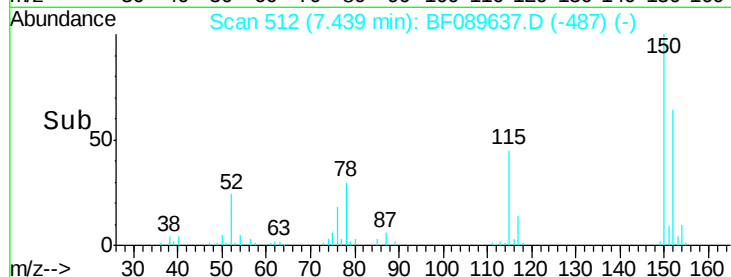
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.44 min Scan# 512  
 Delta R.T. -0.01 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS11-0-2IN

Tgt Ion:152 Resp: 48038  
 Ion Ratio Lower Upper  
 152 100  
 150 157.2 125.5 188.3  
 115 70.8 52.0 78.0

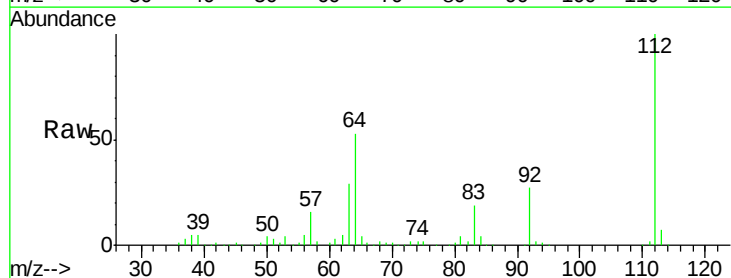


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

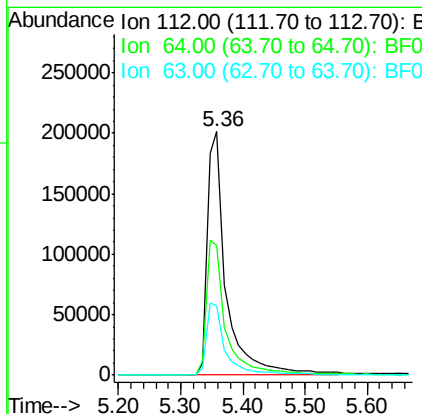
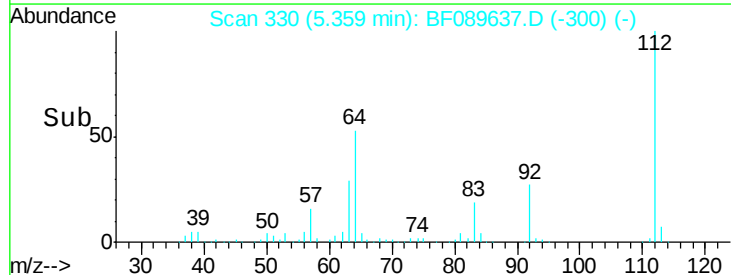


#5  
 2-Fluorophenol  
 Concen: 147.97 ng  
 RT: 5.36 min Scan# 330  
 Delta R.T. 0.05 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

Tgt Ion:112 Resp: 424112  
 Ion Ratio Lower Upper  
 112 100  
 64 53.2 49.9 74.9  
 63 28.6 26.1 39.1



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: 146.49 ng

RT: 7.00 min Scan# 474

Delta R.T. 0.02 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

Instrument :

BNA\_F

ClientSampleId :

SS11-0-2IN

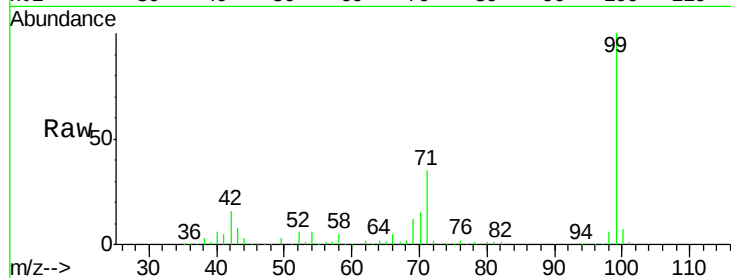
Tgt Ion: 99 Resp: 569549

Ion Ratio Lower Upper

99 100

42 15.8 13.7 20.5

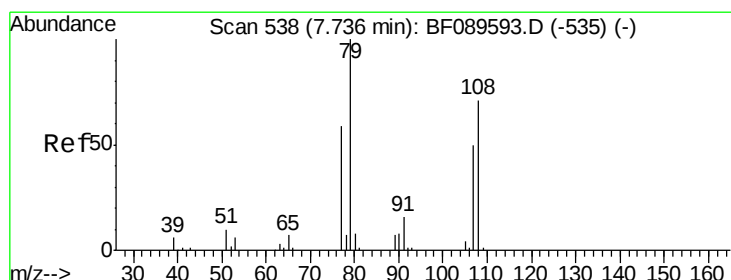
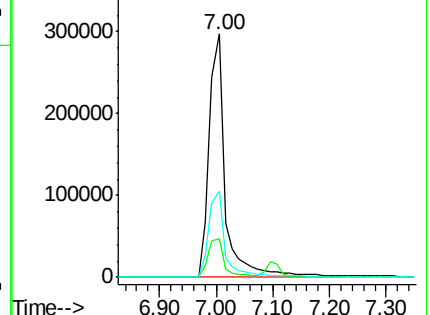
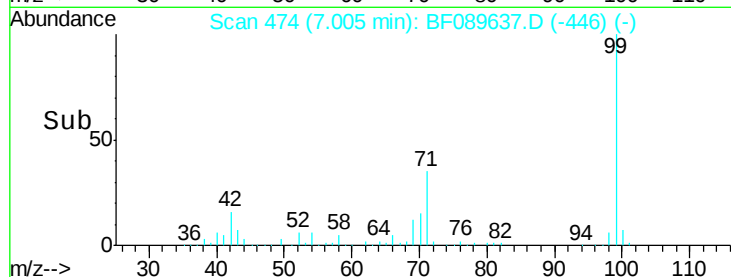
71 35.4 29.0 43.4



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



#15

Benzyl Alcohol

Concen: 2.18 ng

RT: 7.68 min Scan# 533

Delta R.T. -0.06 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

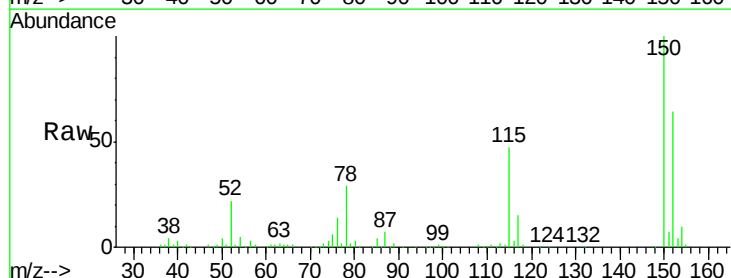
Tgt Ion: 79 Resp: 5569

Ion Ratio Lower Upper

79 100

108 29.4 58.3 87.5#

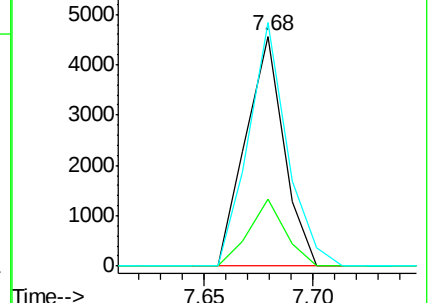
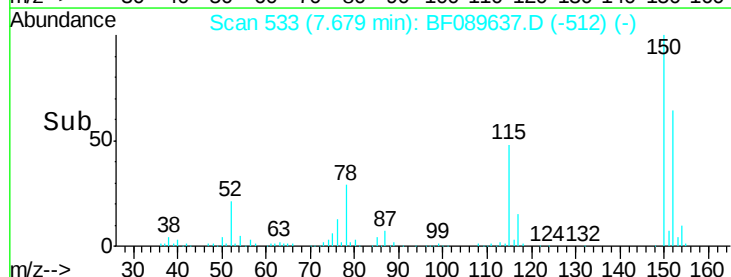
77 105.9 48.7 73.1#

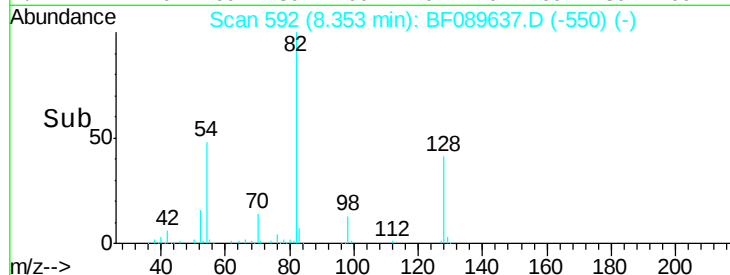
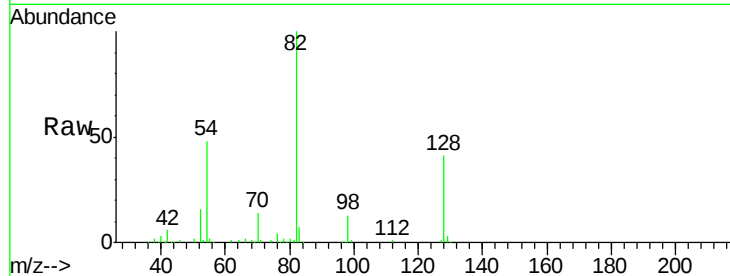
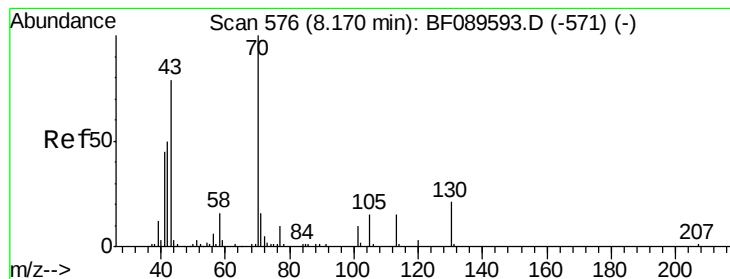


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 14.74 ng

RT: 8.35 min Scan# 592

Delta R.T. 0.18 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

Instrument :

BNA\_F

ClientSampleId :

SS11-0-2IN

Tgt Ion: 70 Resp: 41397

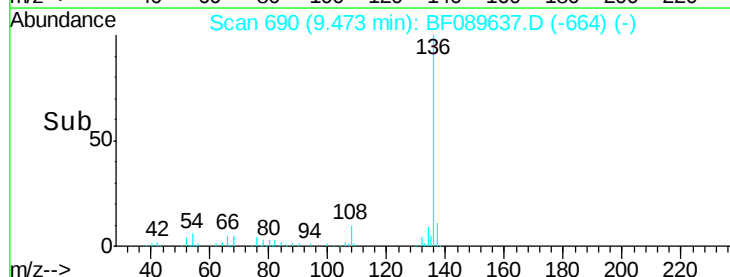
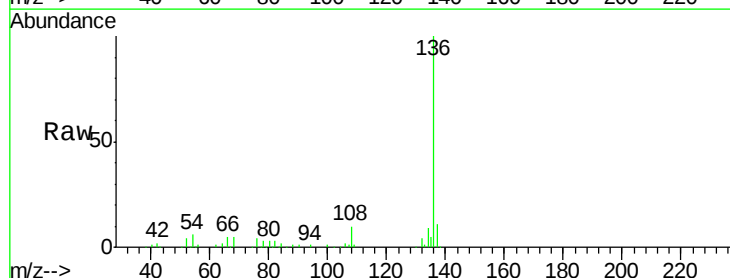
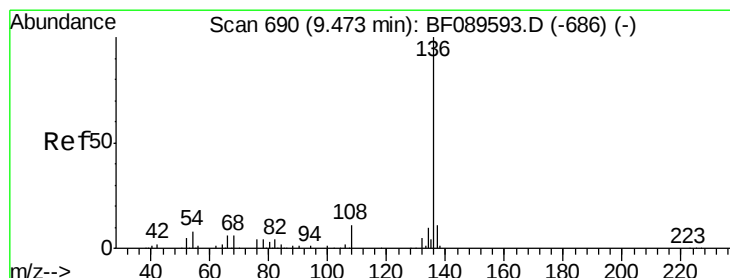
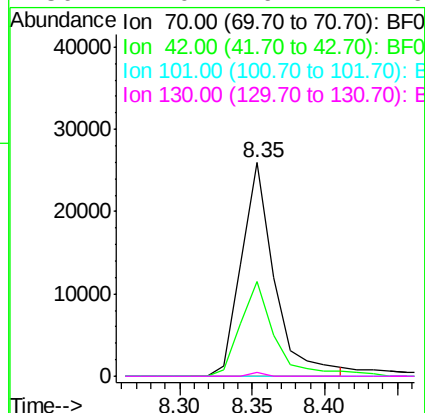
Ion Ratio Lower Upper

70 100

42 44.5 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: 9.47 min Scan# 690

Delta R.T. 0.00 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

Tgt Ion: 136 Resp: 195685

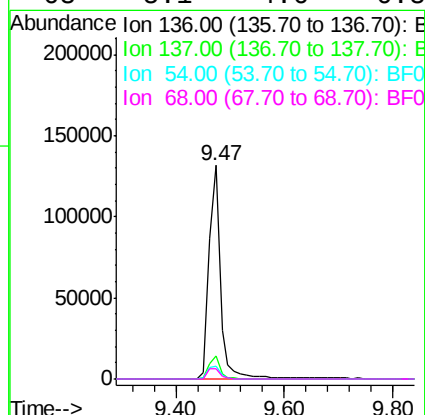
Ion Ratio Lower Upper

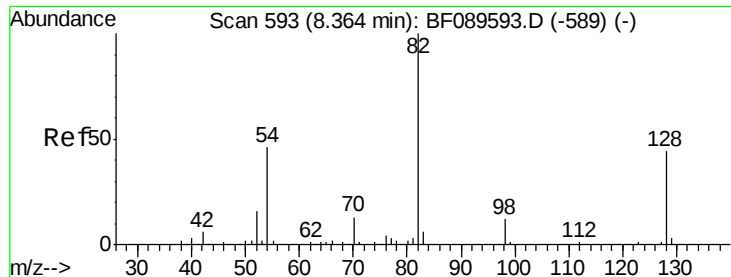
136 100

137 10.6 8.6 12.8

54 6.2 6.0 9.0

68 5.1 4.6 6.8

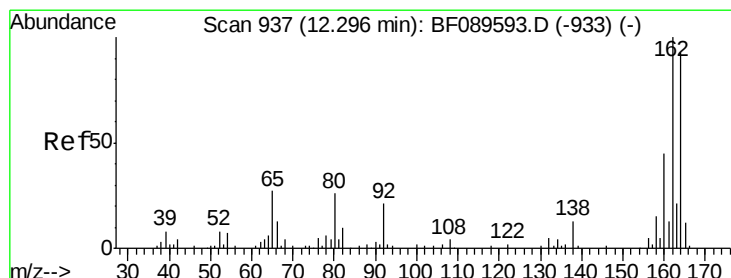
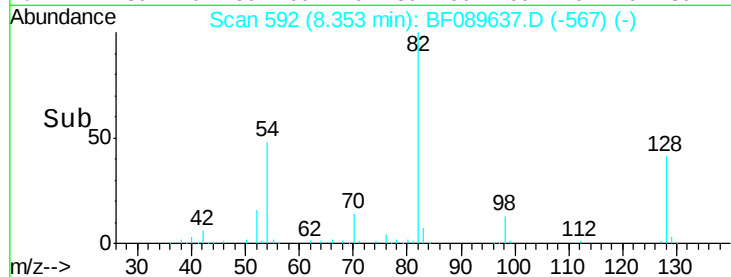
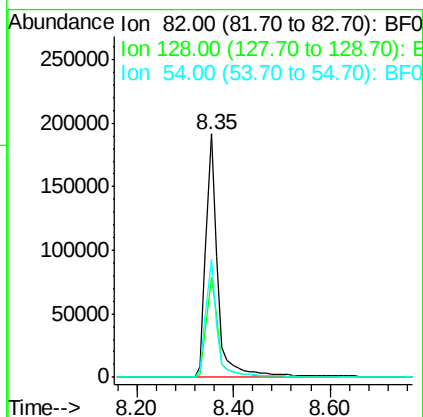
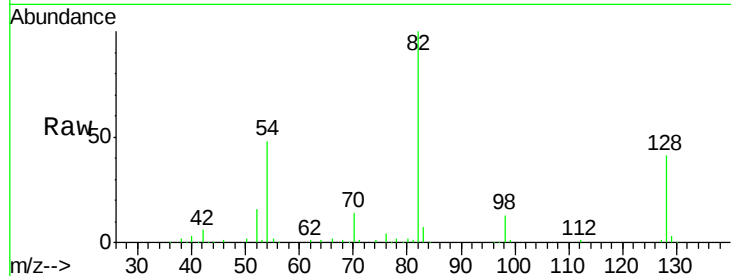




#23  
 Nitrobenzene-d5  
 Concen: 94.73 ng  
 RT: 8.35 min Scan# 592  
 Delta R.T. -0.01 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

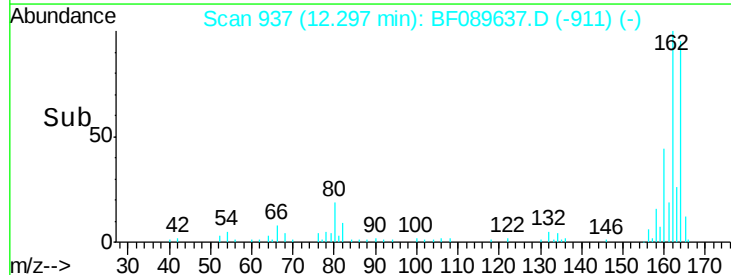
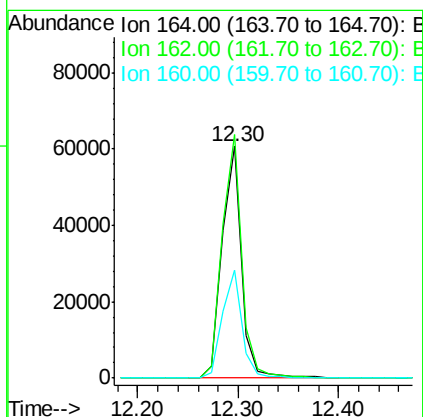
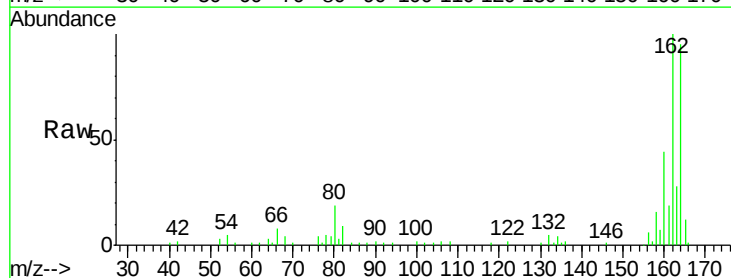
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS11-0-2IN

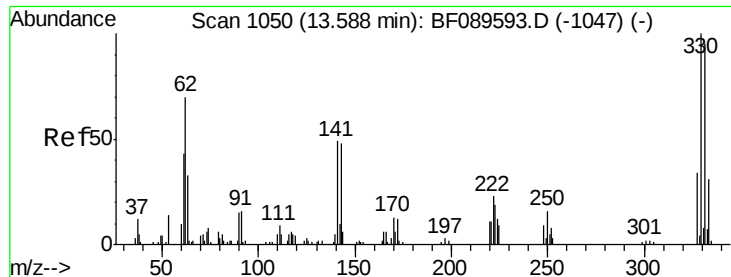
Tgt Ion: 82 Resp: 335139  
 Ion Ratio Lower Upper  
 82 100  
 128 41.3 35.4 53.0  
 54 48.4 36.4 54.6



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.30 min Scan# 937  
 Delta R.T. 0.00 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

Tgt Ion: 164 Resp: 81151  
 Ion Ratio Lower Upper  
 164 100  
 162 104.9 85.7 128.5  
 160 46.4 38.2 57.4

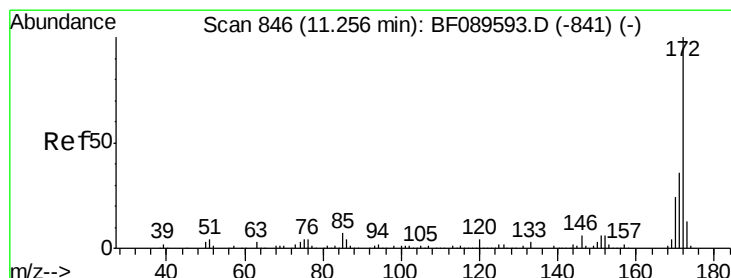
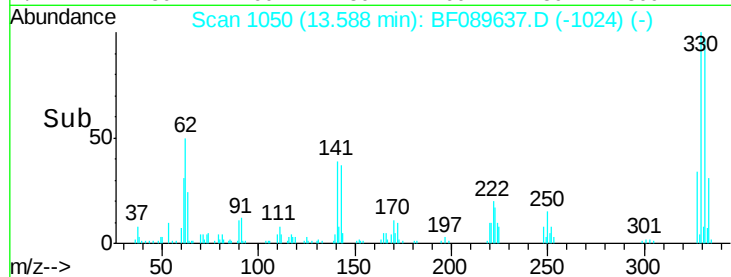
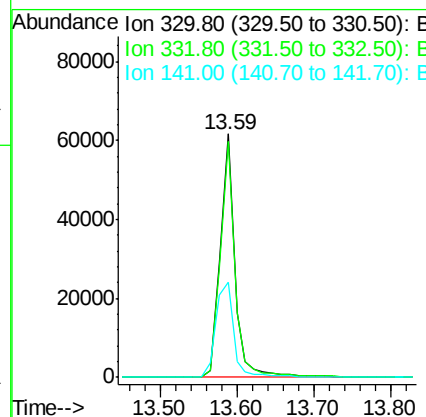
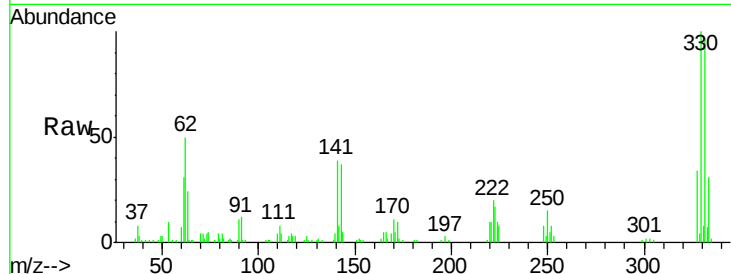




#41  
 2,4,6-Tribromophenol  
 Concen: 123.35 ng  
 RT: 13.59 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

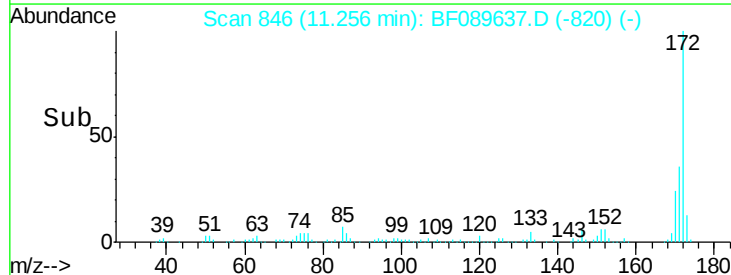
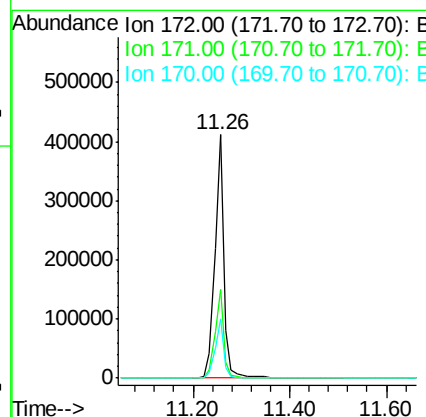
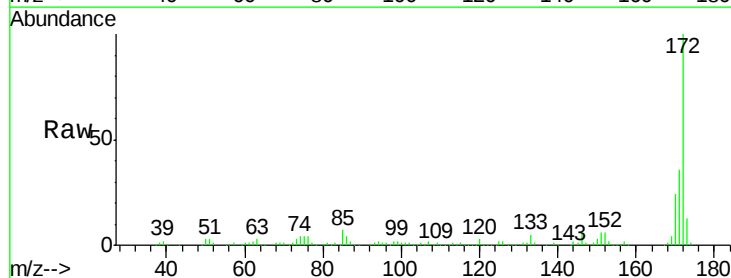
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS11-0-2IN

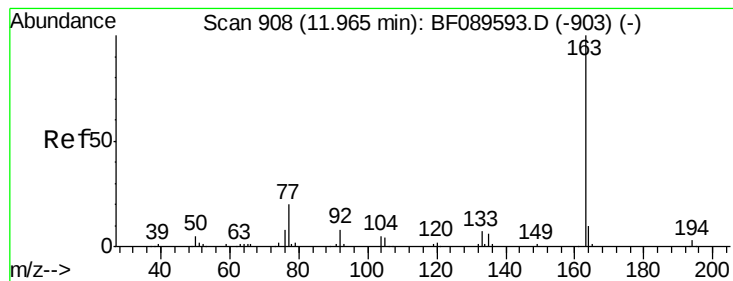
Tgt Ion:330 Resp: 82609  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 77.0 115.6  
 141 47.1 38.6 57.8



#44  
 2-Fluorobiphenyl  
 Concen: 88.70 ng  
 RT: 11.26 min Scan# 846  
 Delta R.T. 0.00 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

Tgt Ion:172 Resp: 553842  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 28.9 43.3  
 170 24.2 19.0 28.6





#49

Dimethylphthalate

Concen: 16.37 ng

RT: 11.94 min Scan# 906

Delta R.T. -0.02 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

Instrument :

BNA\_F

ClientSampleId :

SS11-0-2IN

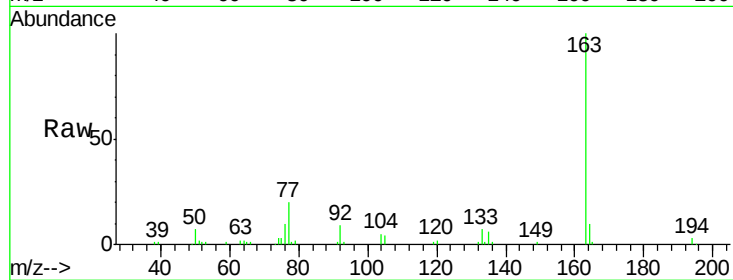
Tgt Ion:163 Resp: 104105

Ion Ratio Lower Upper

163 100

194 3.5 2.7 4.1

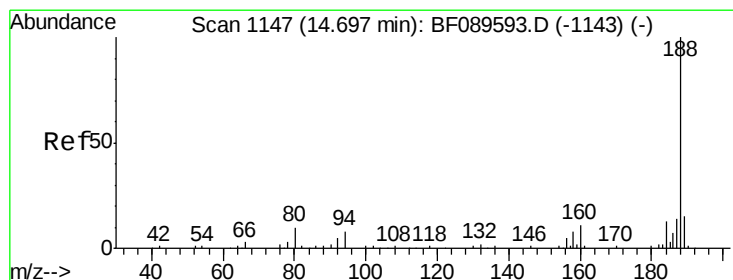
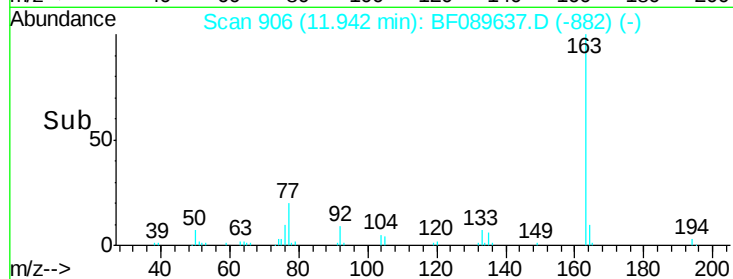
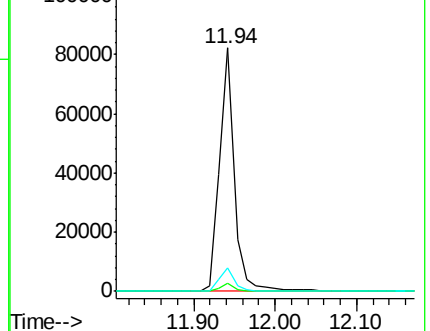
164 9.9 7.8 11.6



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.69 min Scan# 1146

Delta R.T. -0.01 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

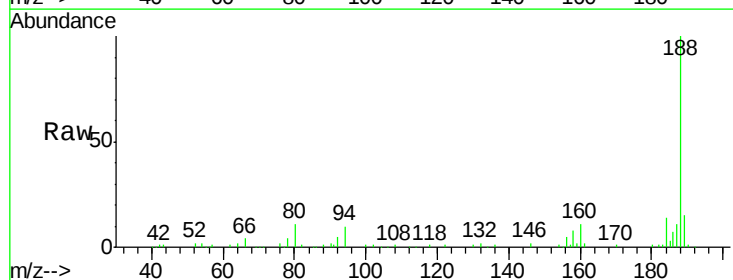
Tgt Ion:188 Resp: 119209

Ion Ratio Lower Upper

188 100

94 10.0 6.5 9.7#

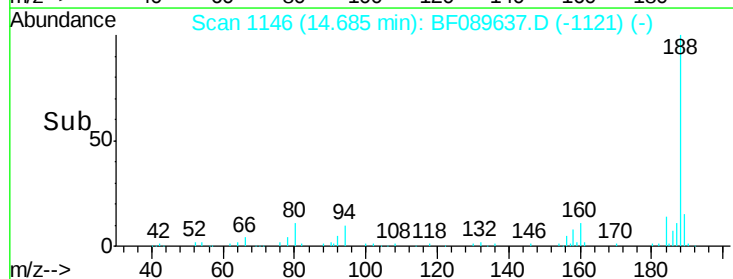
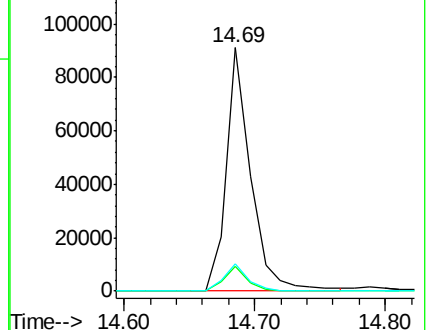
80 11.2 8.0 12.0

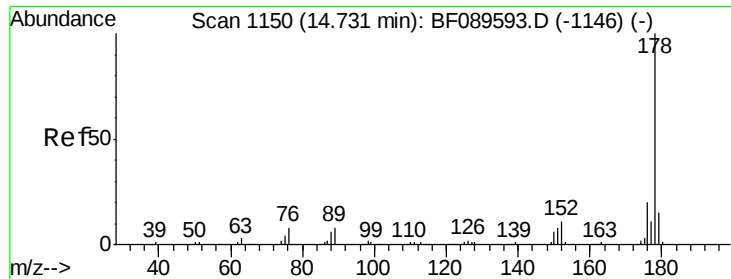


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

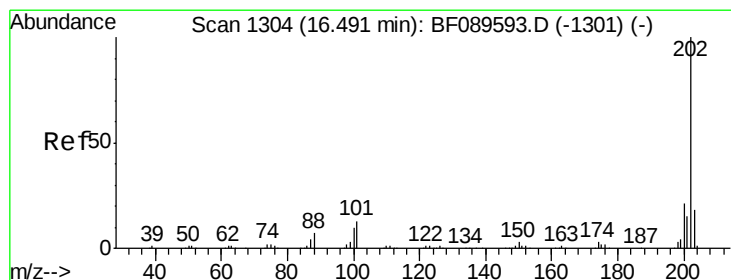
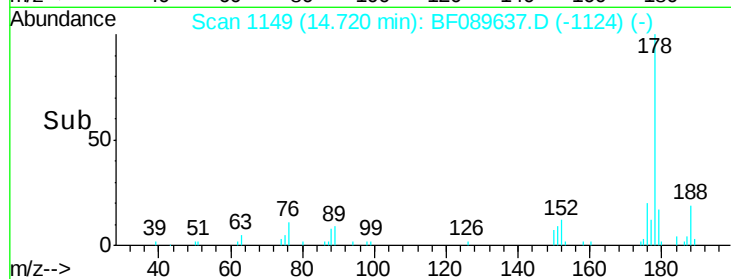
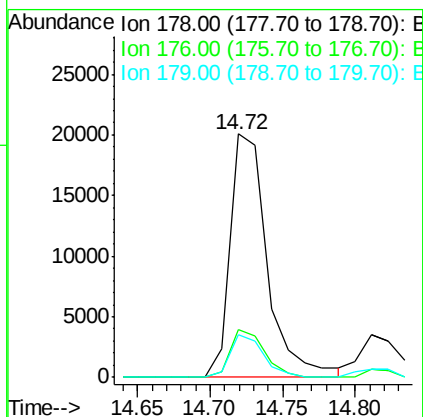
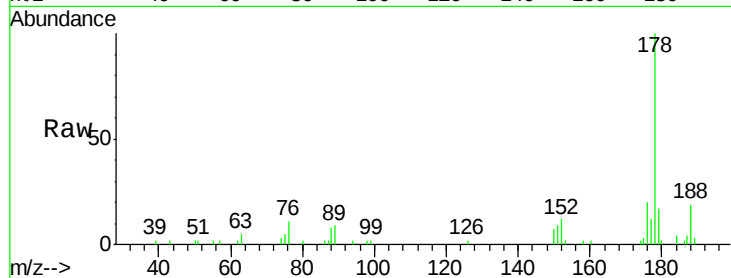




#70  
Phenanthrene  
Concen: 5.53 ng  
RT: 14.72 min Scan# 1149  
Delta R.T. -0.01 min  
Lab File: BF089637.D  
Acq: 5 Aug 2016 18:52

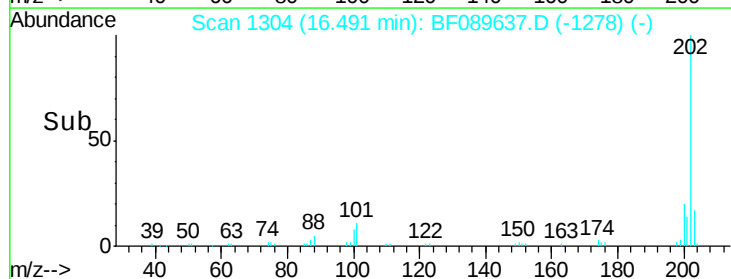
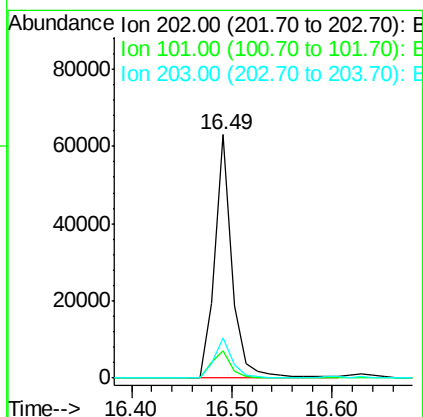
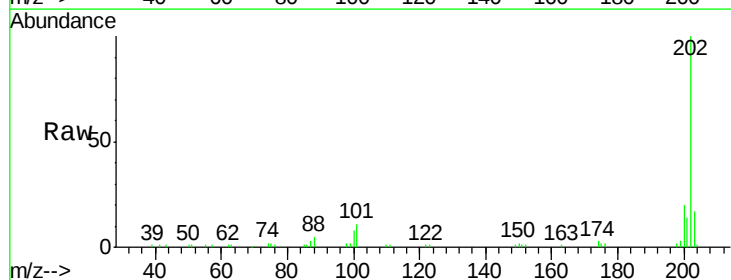
Instrument :  
BNA\_F  
ClientSampleId :  
SS11-0-2IN

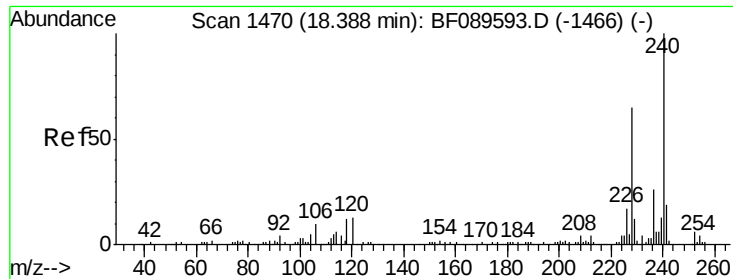
Tgt Ion:178 Resp: 35814  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.7 23.5  
179 17.3 12.2 18.2



#74  
Fluoranthene  
Concen: 11.45 ng  
RT: 16.49 min Scan# 1304  
Delta R.T. 0.00 min  
Lab File: BF089637.D  
Acq: 5 Aug 2016 18:52

Tgt Ion:202 Resp: 76272  
Ion Ratio Lower Upper  
202 100  
101 11.4 0.0 32.7  
203 16.5 0.0 37.8

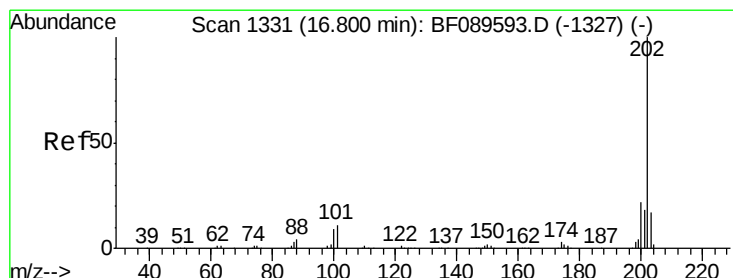
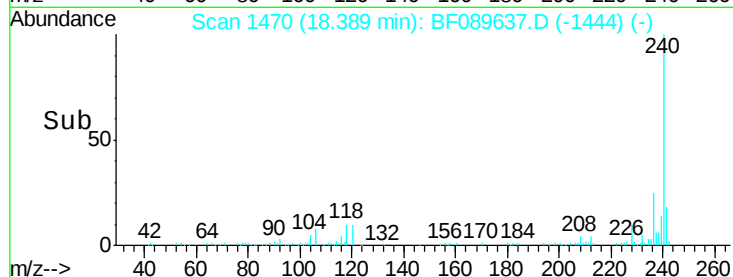
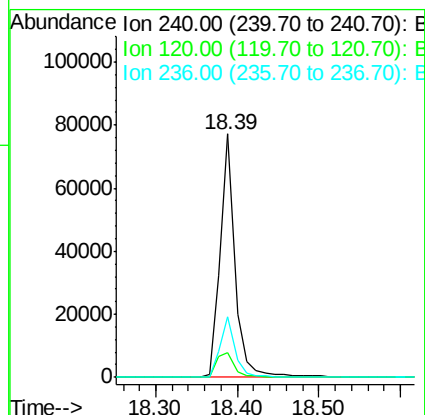
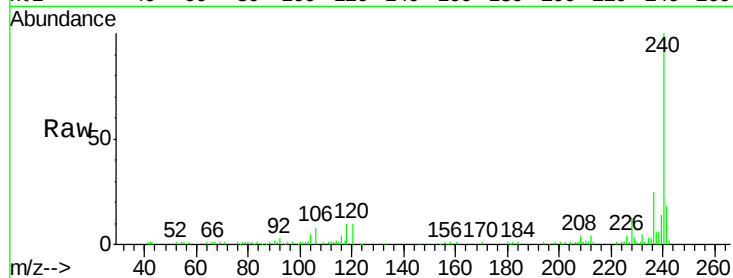




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 18.39 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: BF089637.D  
Acq: 5 Aug 2016 18:52

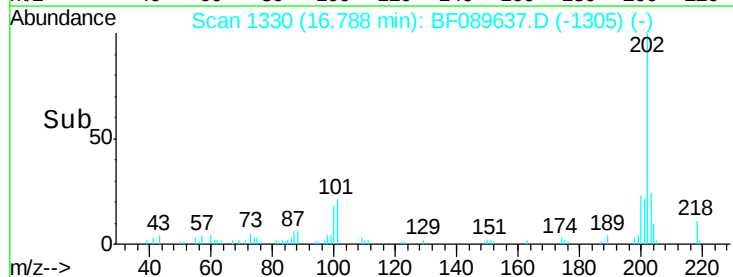
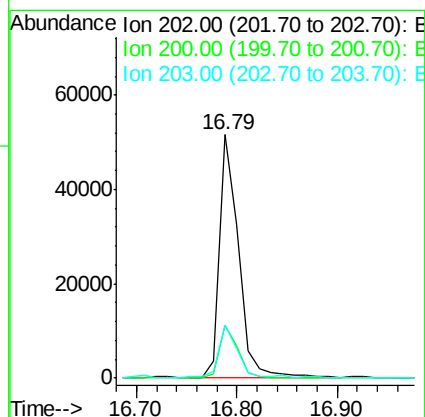
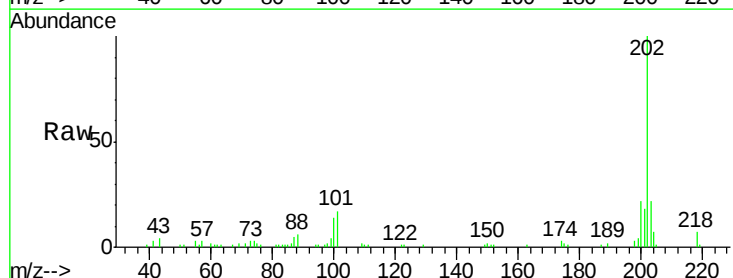
Instrument :  
BNA\_F  
ClientSampleId :  
SS11-0-2IN

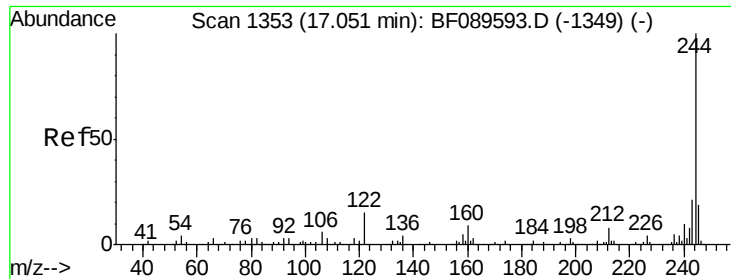
Tgt Ion:240 Resp: 97530  
Ion Ratio Lower Upper  
240 100  
120 10.4 10.6 15.8#  
236 24.9 20.6 30.8



#77  
Pyrene  
Concen: 7.93 ng  
RT: 16.79 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF089637.D  
Acq: 5 Aug 2016 18:52

Tgt Ion:202 Resp: 68415  
Ion Ratio Lower Upper  
202 100  
200 22.0 17.4 26.0  
203 21.8 13.6 20.4#

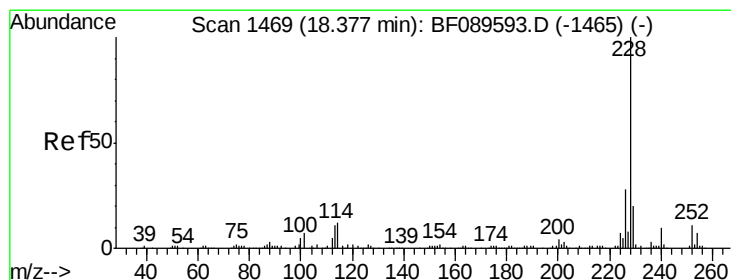
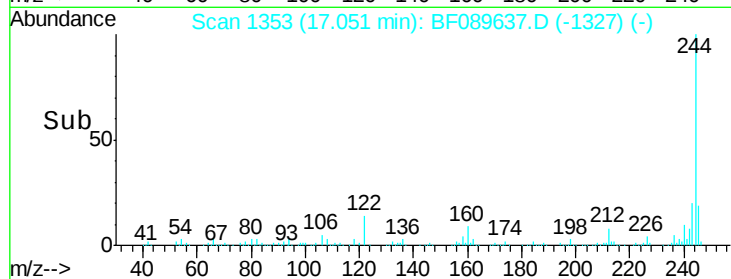
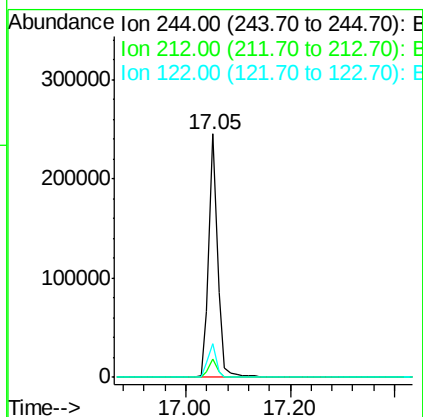
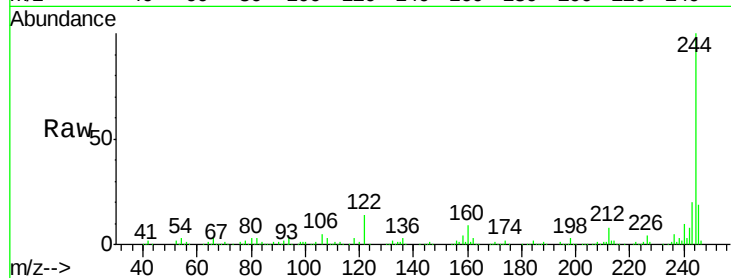




#78  
 Terphenyl-d14  
 Concen: 59.18 ng  
 RT: 17.05 min Scan# 1353  
 Delta R.T. 0.00 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

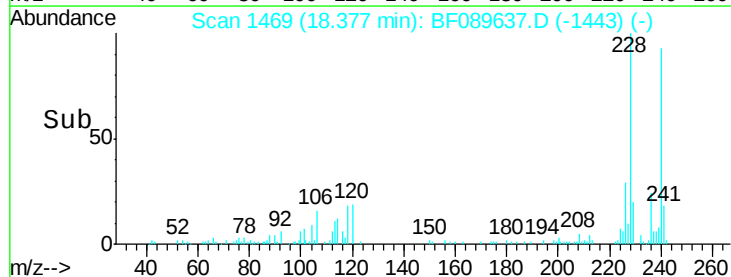
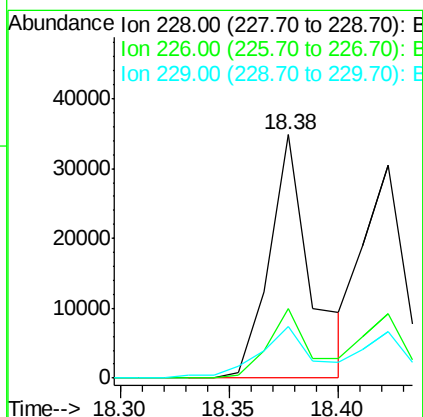
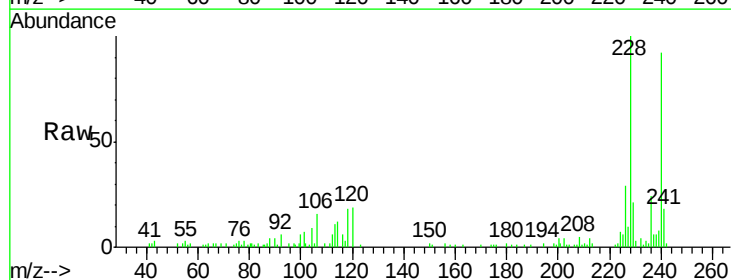
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SS11-0-2IN

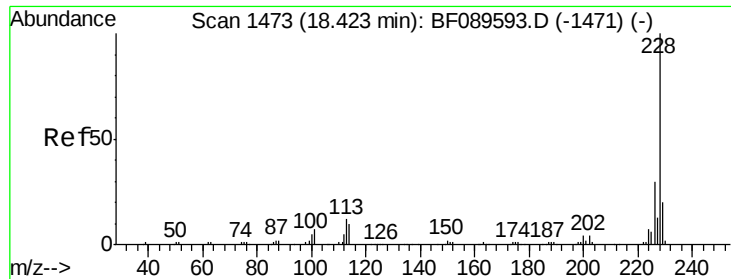
Tgt Ion: 244 Resp: 292363  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.4 9.6  
 122 13.8 12.2 18.2



#80  
 Benzo(a)anthracene  
 Concen: 8.24 ng  
 RT: 18.38 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: BF089637.D  
 Acq: 5 Aug 2016 18:52

Tgt Ion: 228 Resp: 46152  
 Ion Ratio Lower Upper  
 228 100  
 226 28.5 22.3 33.5  
 229 21.0 15.9 23.9





#82

Chrysene

Concen: 7.41 ng

RT: 18.42 min Scan# 1473

Delta R.T. 0.00 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

Instrument :

BNA\_F

ClientSampleId :

SS11-0-2IN

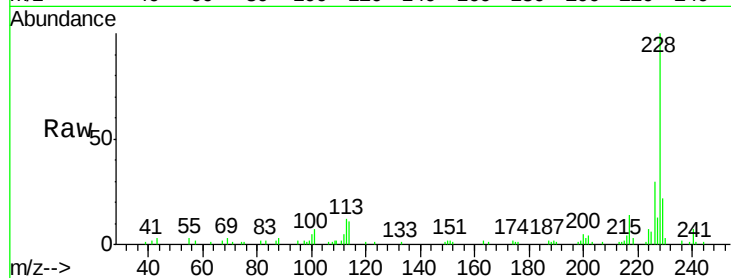
Tgt Ion:228 Resp: 43579

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.2

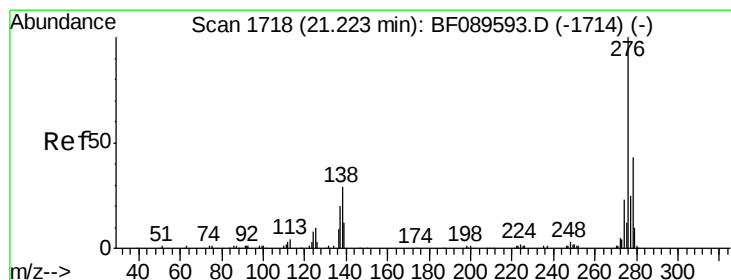
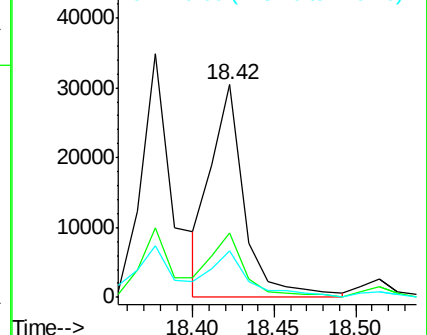
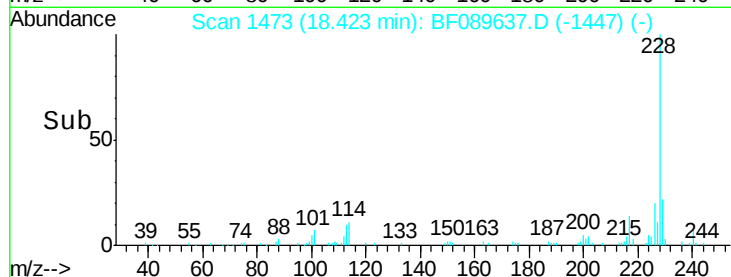
229 21.6 16.0 24.0



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.61 ng

RT: 21.23 min Scan# 1719

Delta R.T. 0.01 min

Lab File: BF089637.D

Acq: 5 Aug 2016 18:52

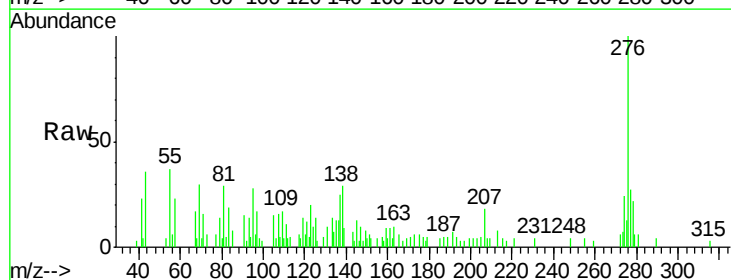
Tgt Ion:276 Resp: 20590

Ion Ratio Lower Upper

276 100

138 40.5 23.8 35.8#

277 26.9 20.3 30.5



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

