

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\  
 Data File : BF085218.D  
 Acq On : 4 Mar 2016 22:29  
 Operator : SJ/IZ  
 Sample : H1645-03  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 ELP-7

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Quant Time: Mar 04 23:34:34 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.97  | 152  | 168171   | 20.00  | ng    | -0.01        |
| 21) Naphthalene-d8          | 8.25  | 136  | 669052   | 20.00  | ng    | -0.01        |
| 38) Acenaphthene-d10        | 10.01 | 164  | 317826   | 20.00  | ng    | -0.01        |
| 63) Phenanthrene-d10        | 11.50 | 188  | 596520   | 20.00  | ng    | -0.01        |
| 75) Chrysene-d12            | 14.13 | 240  | 394182   | 20.00  | ng    | -0.02        |
| 86) Perylene-d12            | 15.60 | 264  | 274500   | 20.00  | ng    | -0.01        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.59  | 112  | 1097850  | 109.50 | ng    | 0.01         |
| 7) Phenol-d6                | 6.60  | 99   | 1244292  | 94.73  | ng    | -0.01        |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 1046210  | 83.68  | ng    | -0.01        |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 391085   | 143.81 | ng    | -0.01        |
| 44) 2-Fluorobiphenyl        | 9.33  | 172  | 1808778  | 86.55  | ng    | -0.02        |
| 78) Terphenyl-d14           | 13.09 | 244  | 1490462  | 87.78  | ng    | 0.00         |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 8.28  | 128  | 289987   | 8.81   | ng    | Qvalue<br>97 |

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

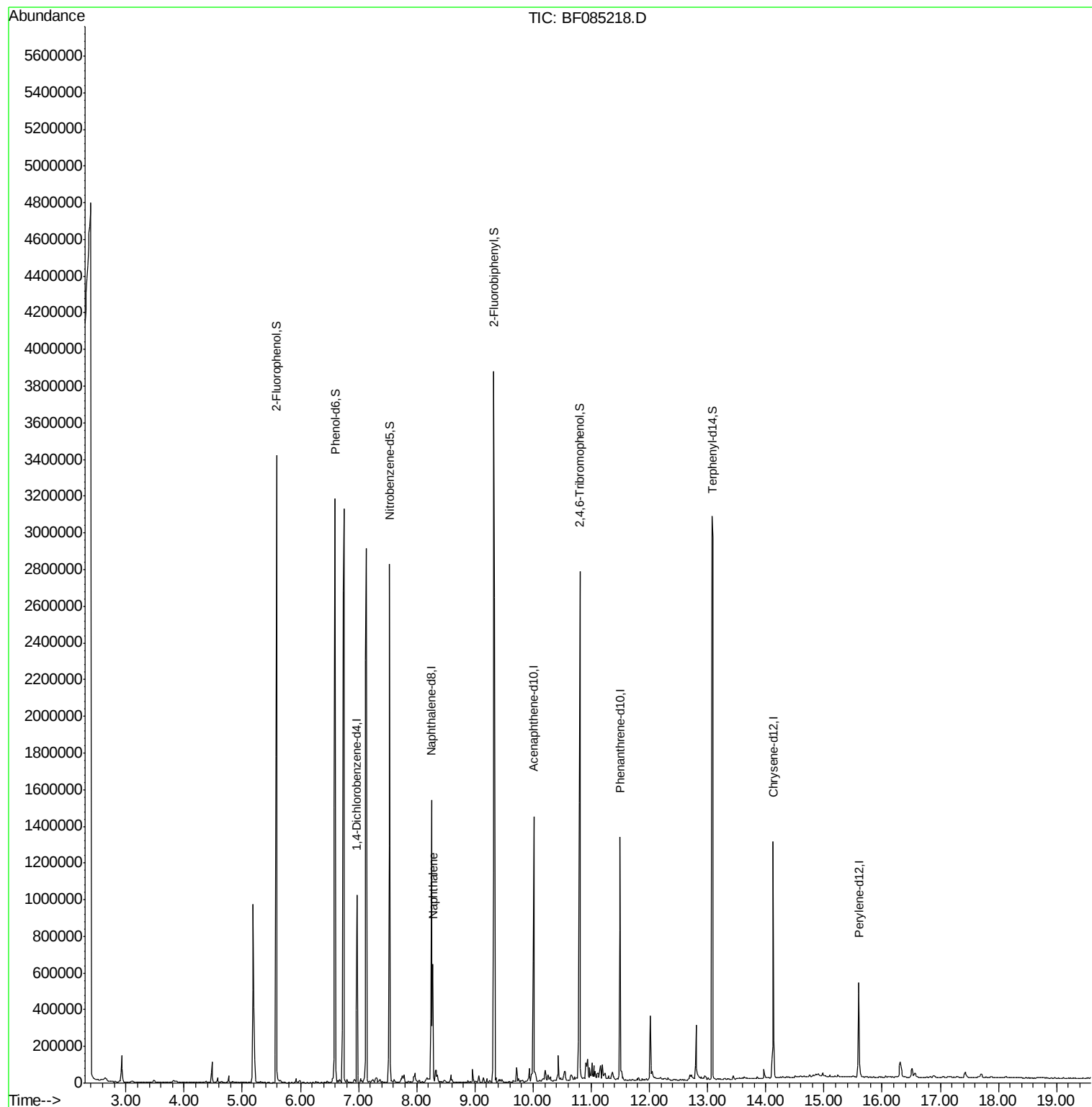
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030416\  
Data File : BF085218.D  
Acq On : 4 Mar 2016 22:29  
Operator : SJ/IZ  
Sample : H1645-03  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

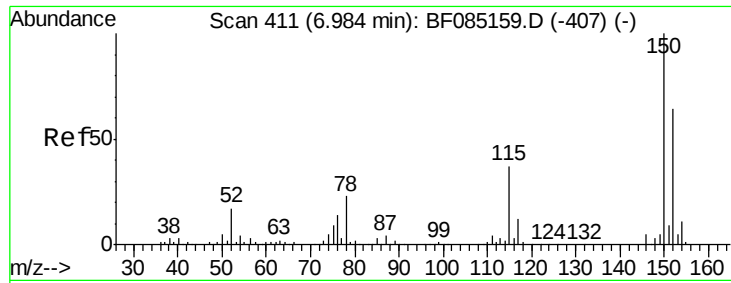
Instrument :  
BNA\_F  
ClientSampleId :  
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Quant Time: Mar 04 23:34:34 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration





#1

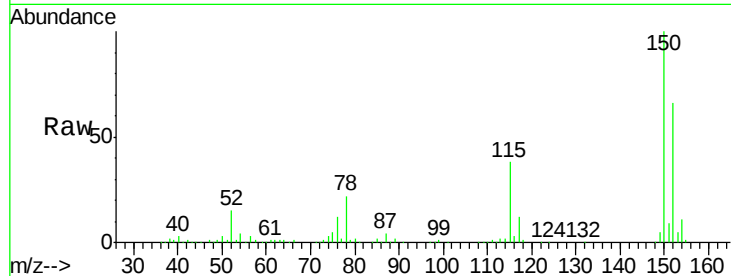
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.97 min Scan# 410  
Delta R.T. -0.01 min  
Lab File: BF085218.D  
Acq: 4 Mar 2016 22:29

Instrument :  
BNA\_F  
ClientSampleId :  
ELP-7

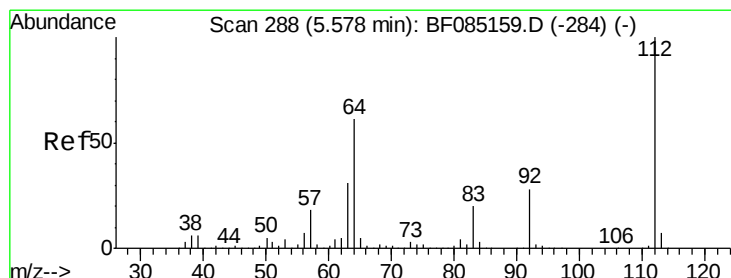
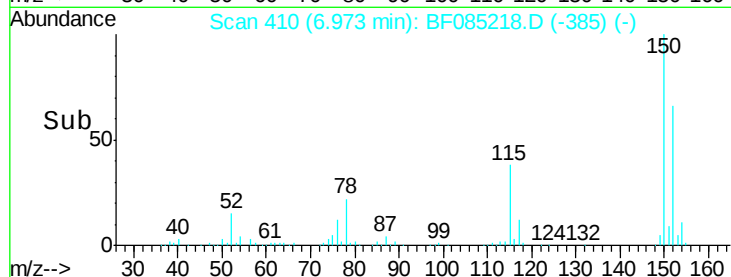
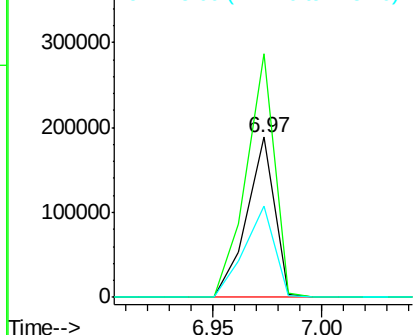
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 168171 |       |       |
| 150     | 152.0 | 124.6  | 186.8 |       |
| 115     | 57.3  | 46.6   | 70.0  |       |

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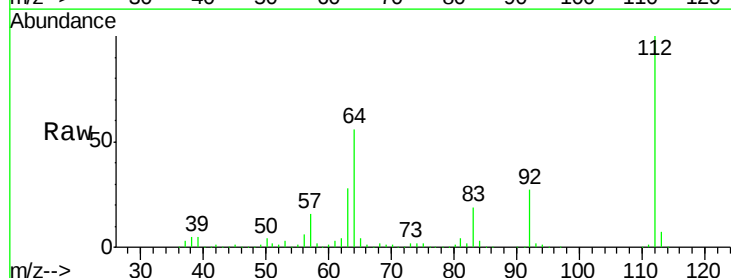
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



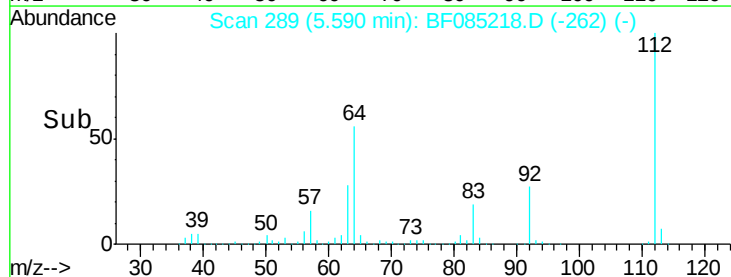
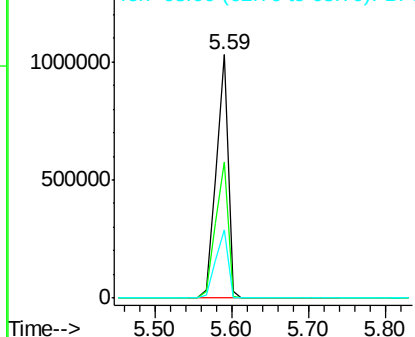
#5

2-Fluorophenol  
Concen: 109.50 ng  
RT: 5.59 min Scan# 289  
Delta R.T. 0.01 min  
Lab File: BF085218.D  
Acq: 4 Mar 2016 22:29

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 112     | 100   | 1097850 |       |       |
| 64      | 55.7  | 49.0    | 73.4  |       |
| 63      | 28.2  | 24.8    | 37.2  |       |



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: 94.73 ng

RT: 6.60 min Scan# 377

Delta R.T. -0.01 min

Lab File: BF085218.D

Acq: 4 Mar 2016 22:29

Instrument :

BNA\_F

ClientSampleId :

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Tot Ion: 99 Resp: 1244292

Ion Ratio Lower Upper

99 100

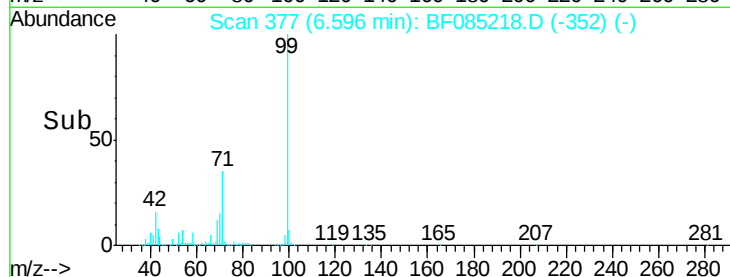
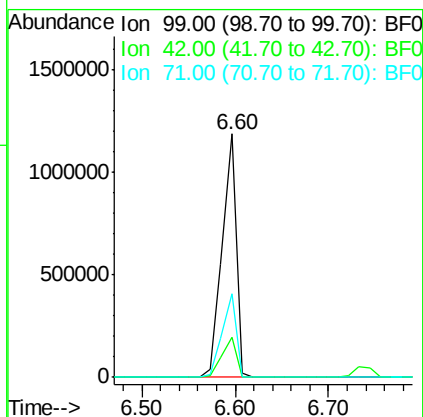
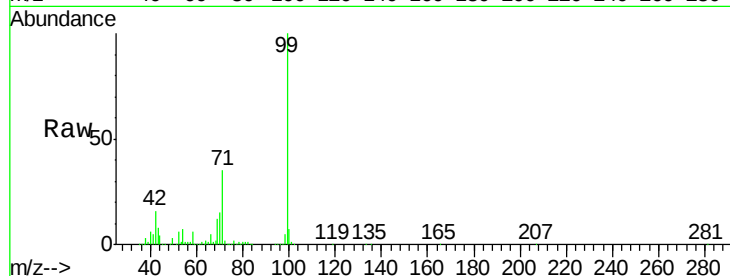
42 16.2 13.6 20.4

71 34.5 26.7 40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.25 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF085218.D

Acq: 4 Mar 2016 22:29

Tgt Ion: 136 Resp: 669052

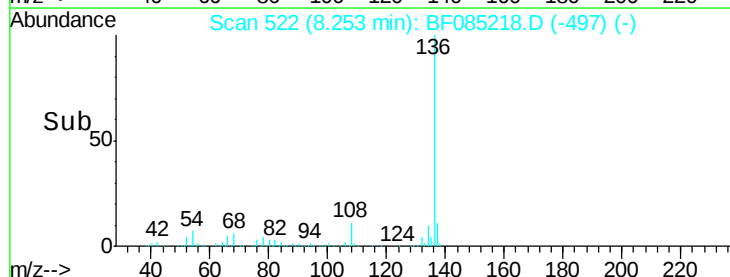
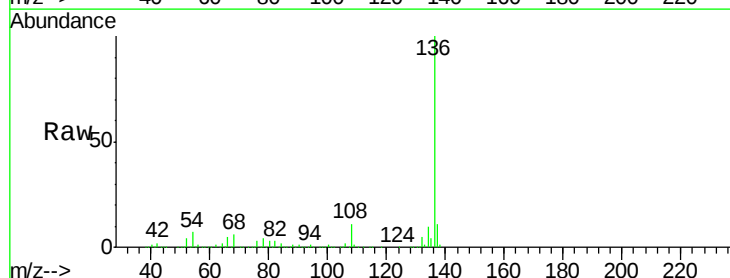
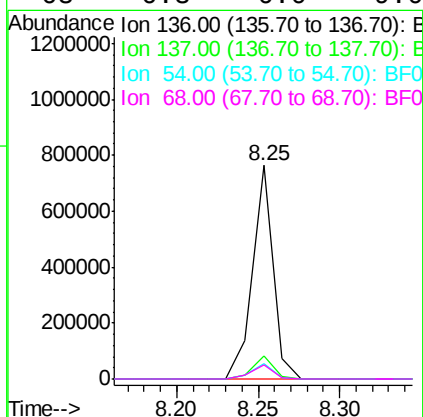
Ion Ratio Lower Upper

136 100

137 11.1 9.3 13.9

54 7.3 7.4 11.2#

68 6.3 6.0 9.0





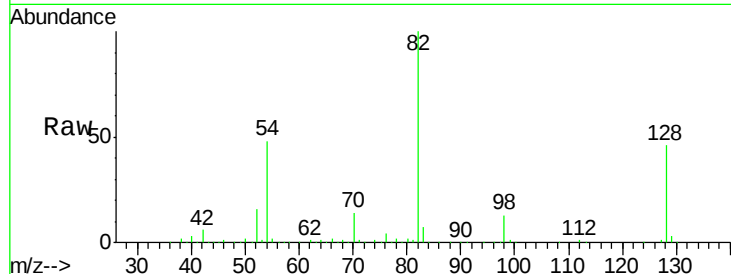
#23  
 Nitrobenzene-d5  
 Concen: 83.68 ng  
 RT: 7.53 min Scan# 459  
 Delta R.T. -0.01 min  
 Lab File: BF085218.D  
 Acq: 4 Mar 2016 22:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
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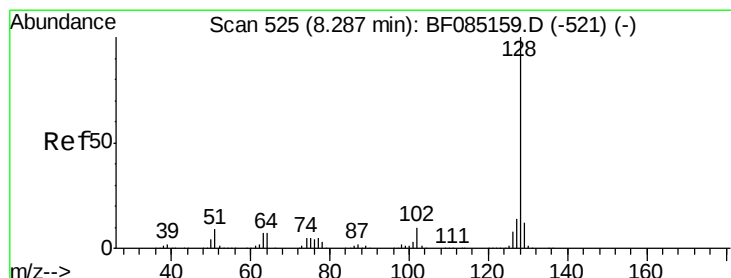
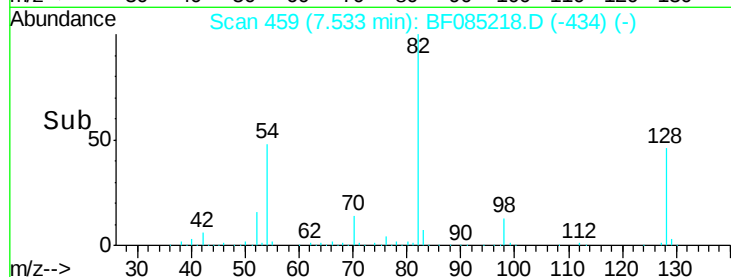
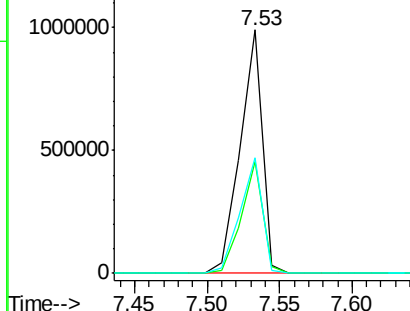
| Tot Ion   | 82   | Resp  | 1046210 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 128       | 45.7 | 34.5  | 51.7    |
| 54        | 47.7 | 39.3  | 58.9    |

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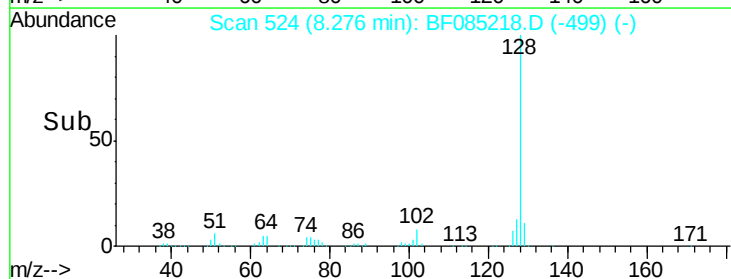
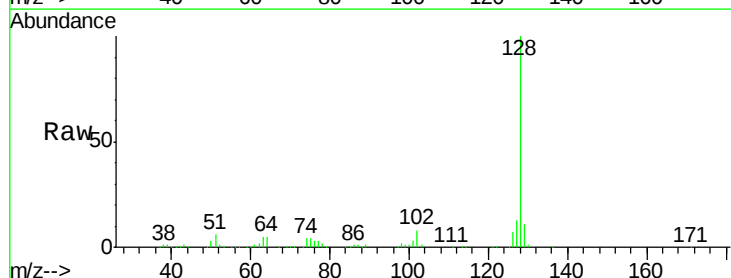
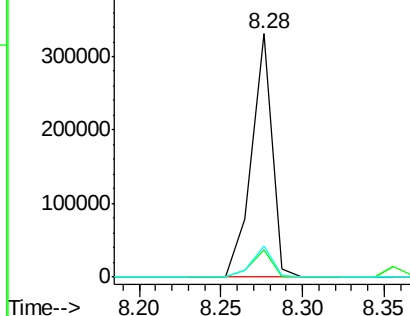
Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

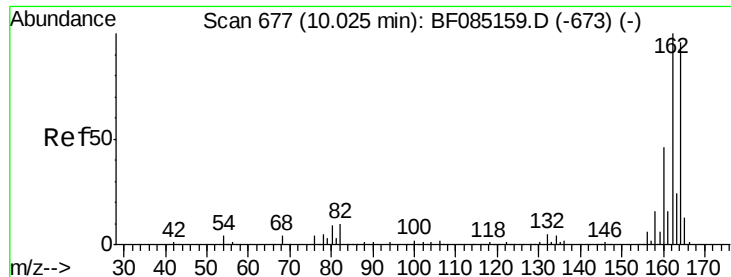


#31  
 Naphthalene  
 Concen: 8.81 ng  
 RT: 8.28 min Scan# 524  
 Delta R.T. -0.01 min  
 Lab File: BF085218.D  
 Acq: 4 Mar 2016 22:29

| Tgt Ion   | 128  | Resp  | 289987 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 129       | 11.1 | 9.7   | 14.5   |
| 127       | 13.0 | 11.2  | 16.8   |

Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E





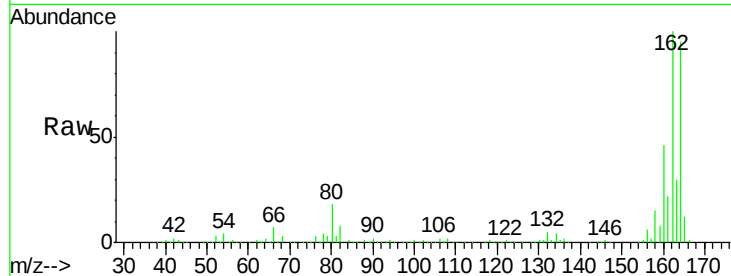
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 10.01 min Scan# 676  
Delta R.T. -0.01 min  
Lab File: BF085218.D  
Acq: 4 Mar 2016 22:29

Instrument :  
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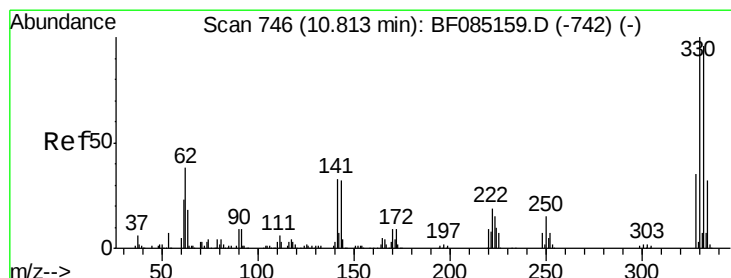
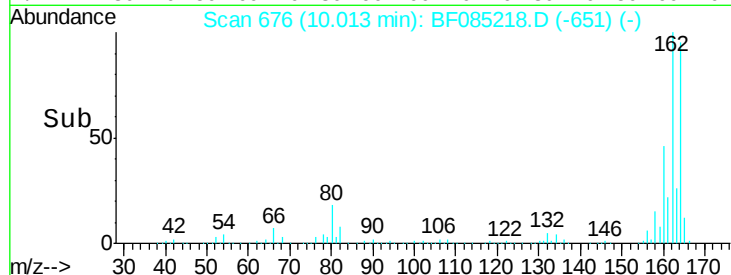
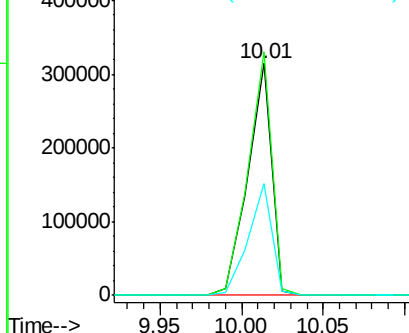
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 105.2 | 83.3 | 124.9 |       |
| 160     | 48.3  | 37.9 | 56.9  |       |

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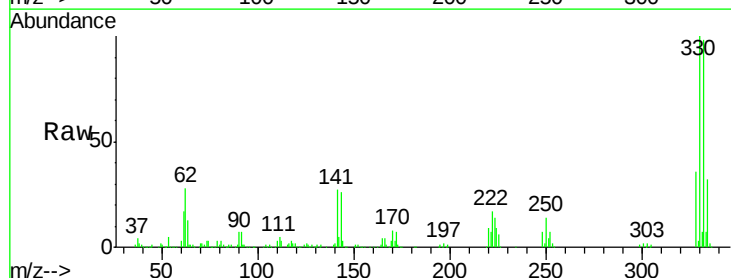


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

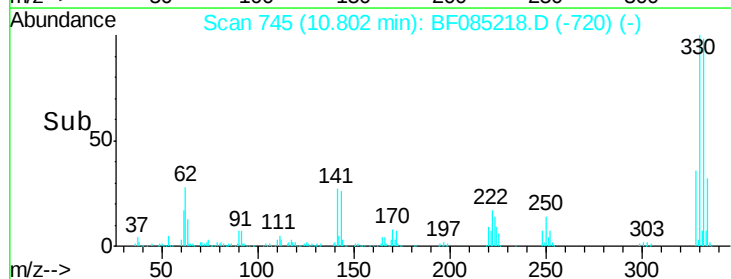
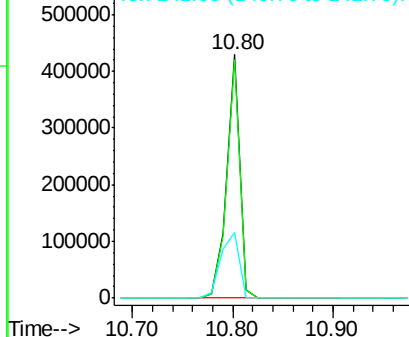


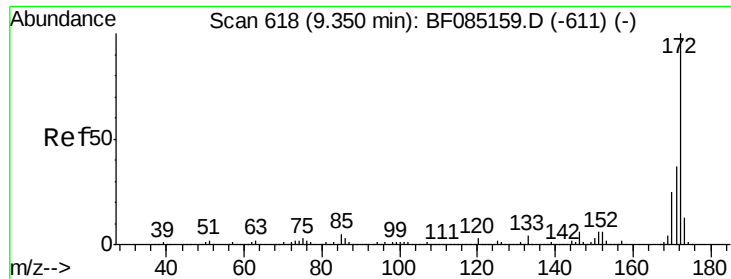
#41  
2,4,6-Tribromophenol  
Concen: 143.81 ng  
RT: 10.80 min Scan# 745  
Delta R.T. -0.01 min  
Lab File: BF085218.D  
Acq: 4 Mar 2016 22:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.7  | 77.1 | 115.7 |       |
| 141     | 37.9  | 35.0 | 52.6  |       |



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





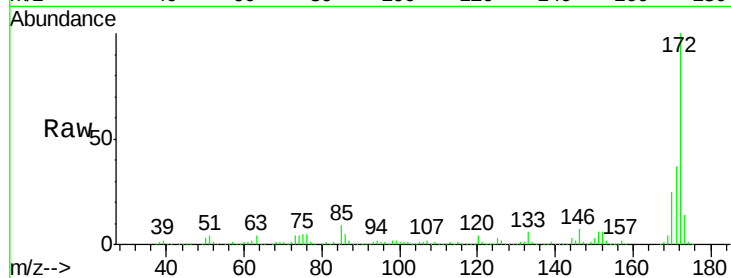
#44  
2-Fluorobiphenyl  
Concen: 86.55 ng  
RT: 9.33 min Scan# 616  
Delta R.T. -0.02 min  
Lab File: BF085218.D  
Acq: 4 Mar 2016 22:29

Instrument :  
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ClientSampleId :  
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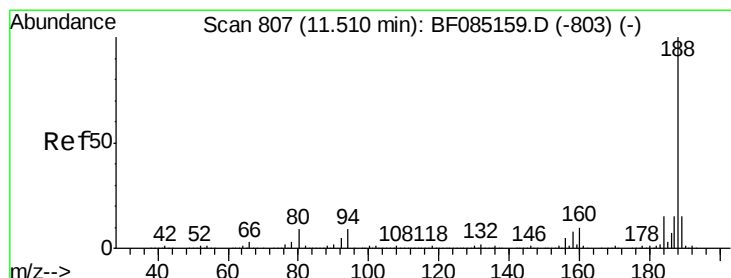
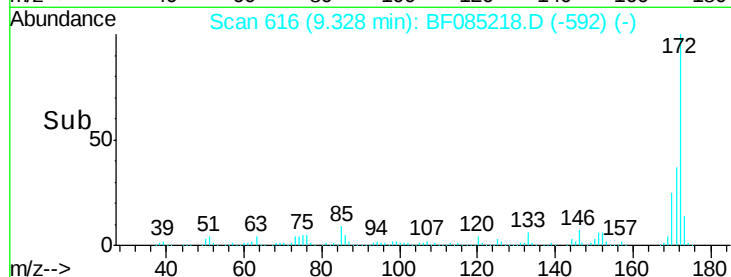
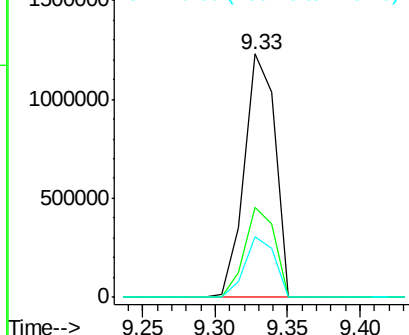
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.3  | 43.9  |
| 170     | 24.7  | 20.0  | 30.0  |

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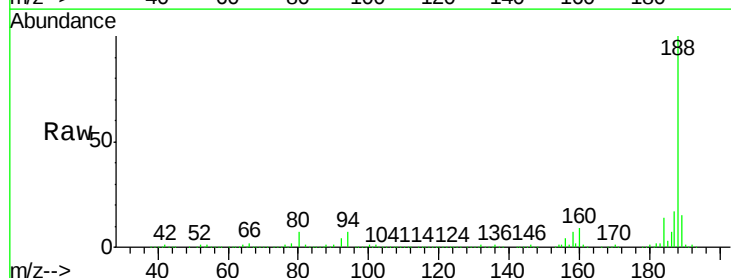


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

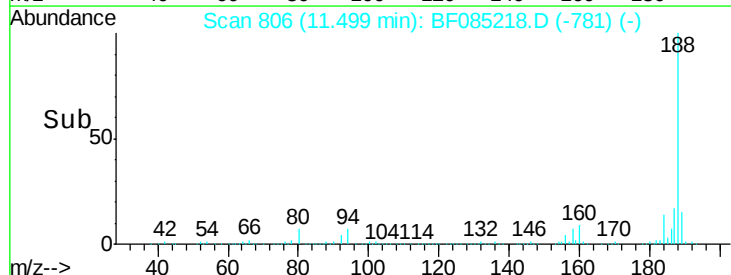
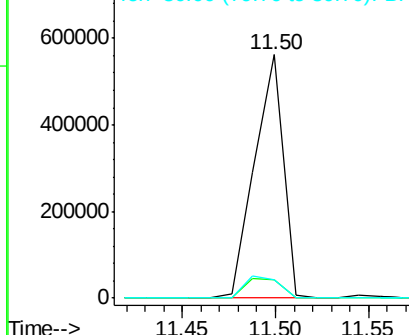


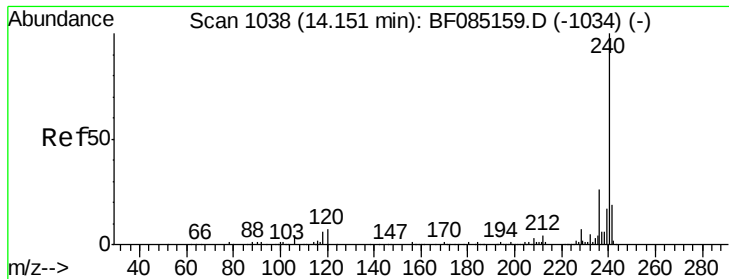
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.50 min Scan# 806  
Delta R.T. -0.01 min  
Lab File: BF085218.D  
Acq: 4 Mar 2016 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.3   | 7.0   | 10.6  |
| 80      | 7.4   | 7.4   | 11.0  |



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.13 min Scan# 1036

Delta R.T. -0.02 min

Lab File: BF085218.D

Acq: 4 Mar 2016 22:29

Instrument :

BNA\_F

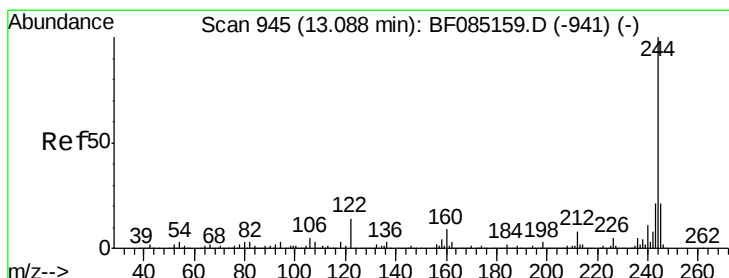
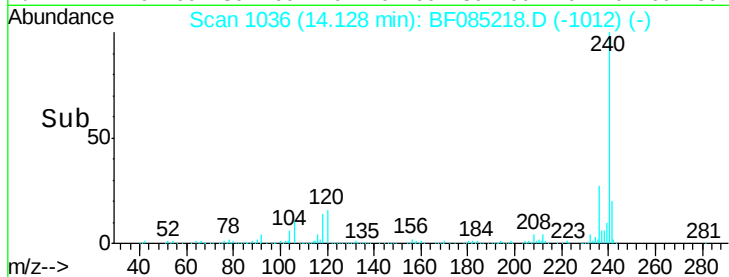
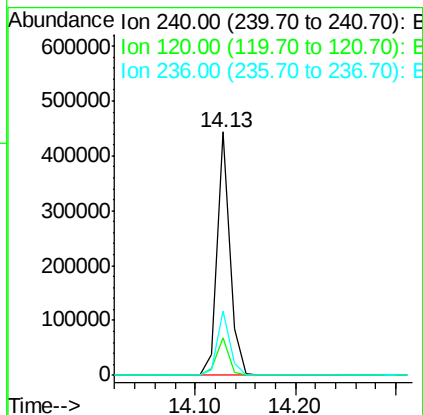
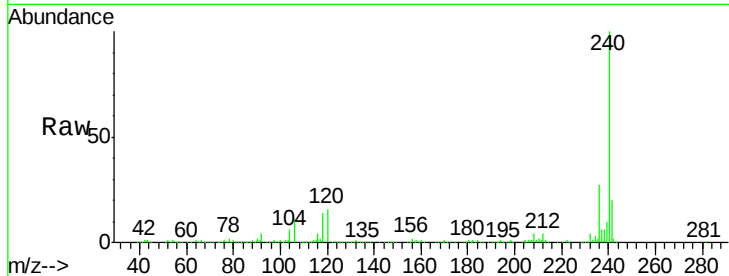
ClientSampleId :

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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 15.7  | 5.3   | 7.9#  |
| 236     | 26.5  | 20.7  | 31.1  |

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#78

Terphenyl-d14

Concen: 87.78 ng

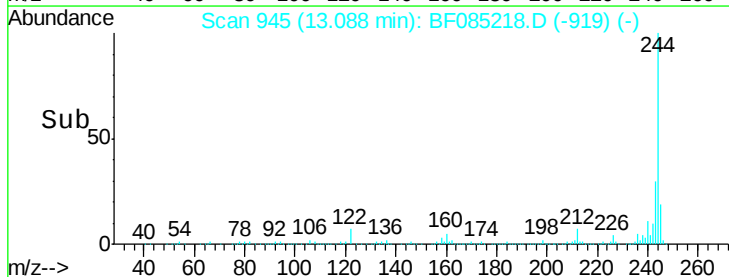
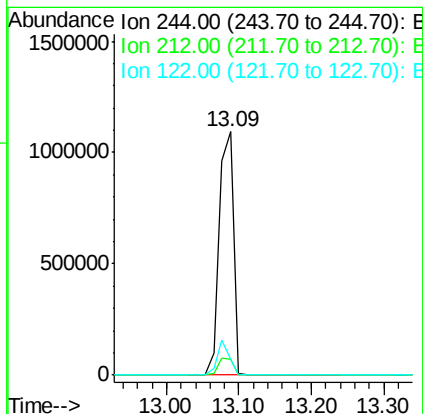
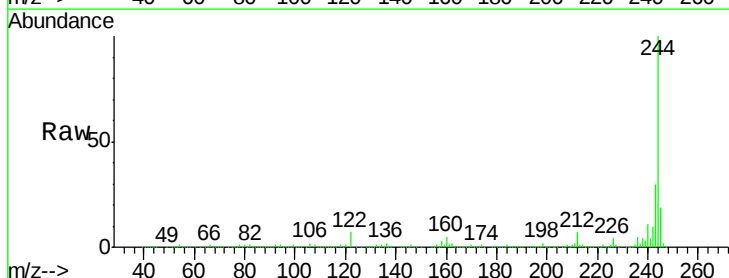
RT: 13.09 min Scan# 945

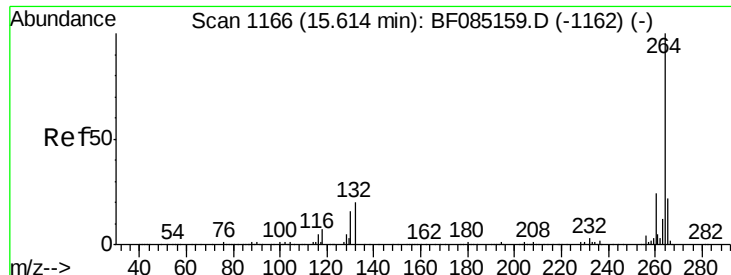
Delta R.T. 0.00 min

Lab File: BF085218.D

Acq: 4 Mar 2016 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 6.4   | 9.6   |
| 122     | 6.7   | 11.4  | 17.2# |





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.60 min Scan# 1165  
 Delta R.T. -0.01 min  
 Lab File: BF085218.D  
 Acq: 4 Mar 2016 22:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
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|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 274500 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.9  | 19.2  | 28.8   |
| 265       | 20.9  | 17.3  | 25.9   |

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