

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072315\  
 Data File : BF080618.D  
 Acq On : 24 Jul 2015 4:26  
 Operator : TP/UM  
 Sample : G3054-02 5X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CONC2

Manual Integrations  
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 7/24/2015 4:47:55 PM

Quant Time: Jul 24 06:24:54 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 24 01:01:51 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.94  | 152  | 41357    | 20.00 | ng    | 0.00      |
| 21) Naphthalene-d8          | 8.24  | 136  | 156160   | 20.00 | ng    | 0.00      |
| 38) Acenaphthene-d10        | 10.00 | 164  | 73592    | 20.00 | ng    | 0.00      |
| 63) Phenanthrene-d10        | 11.48 | 188  | 132640   | 20.00 | ng    | 0.00      |
| 75) Chrysene-d12            | 14.25 | 240  | 171633   | 20.00 | ng    | 0.07      |
| 86) Perylene-d12            | 15.89 | 264  | 187698   | 20.00 | ng    | 0.15      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 5) 2-Fluorophenol           | 5.53  | 112  | 34867    | 14.56 | ng    | 0.01      |
| 7) Phenol-d6                | 6.56  | 99   | 65350    | 22.33 | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 7.50  | 82   | 41954    | 15.22 | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol    | 10.78 | 330  | 2289     | 3.93  | ng    | 0.01      |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 82844    | 16.33 | ng    | 0.00      |
| 78) Terphenyl-d14           | 13.09 | 244  | 85821    | 10.46 | ng    | 0.02      |
| Target Compounds            |       |      |          |       |       |           |
| 6) Aniline                  | 6.61  | 93   | 20374    | 4.76  | ng    | Qvalue 98 |
| 15) Benzyl Alcohol          | 7.08  | 79   | 67021    | 25.98 | ng    | 97        |
| 24) Nitrobenzene            | 7.53  | 77   | 18875    | 6.41  | ng    | 89        |
| 49) Dimethylphthalate       | 9.71  | 163  | 16493    | 3.05  | ng    | 100       |
| 62) Azobenzene              | 10.69 | 77   | 18410    | 3.48  | ng    | 90        |
| 70) Phenanthrene            | 11.51 | 178  | 44368    | 5.93  | ng    | 99        |
| 74) Fluoranthene            | 12.71 | 202  | 60854    | 9.08  | ng    | 96        |
| 77) Pyrene                  | 12.95 | 202  | 56750    | 4.93  | ng    | 98        |
| 80) Benzo(a)anthracene      | 14.24 | 228  | 40707m   | 4.21  | ng    |           |
| 82) Chrysene                | 14.28 | 228  | 41247m   | 4.28  | ng    |           |
| 85) Indeno(1,2,3-cd)pyrene  | 17.40 | 276  | 25662    | 3.52  | ng    | 96        |
| 87) Benzo(b)fluoranthene    | 15.45 | 252  | 48384m   | 4.24  | ng    |           |
| 89) Benzo(a)pyrene          | 15.83 | 252  | 39420    | 3.89  | ng    | # 91      |
| 91) Benzo(g,h,i)perylene    | 17.85 | 276  | 31878    | 3.26  | ng    | # 90      |

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

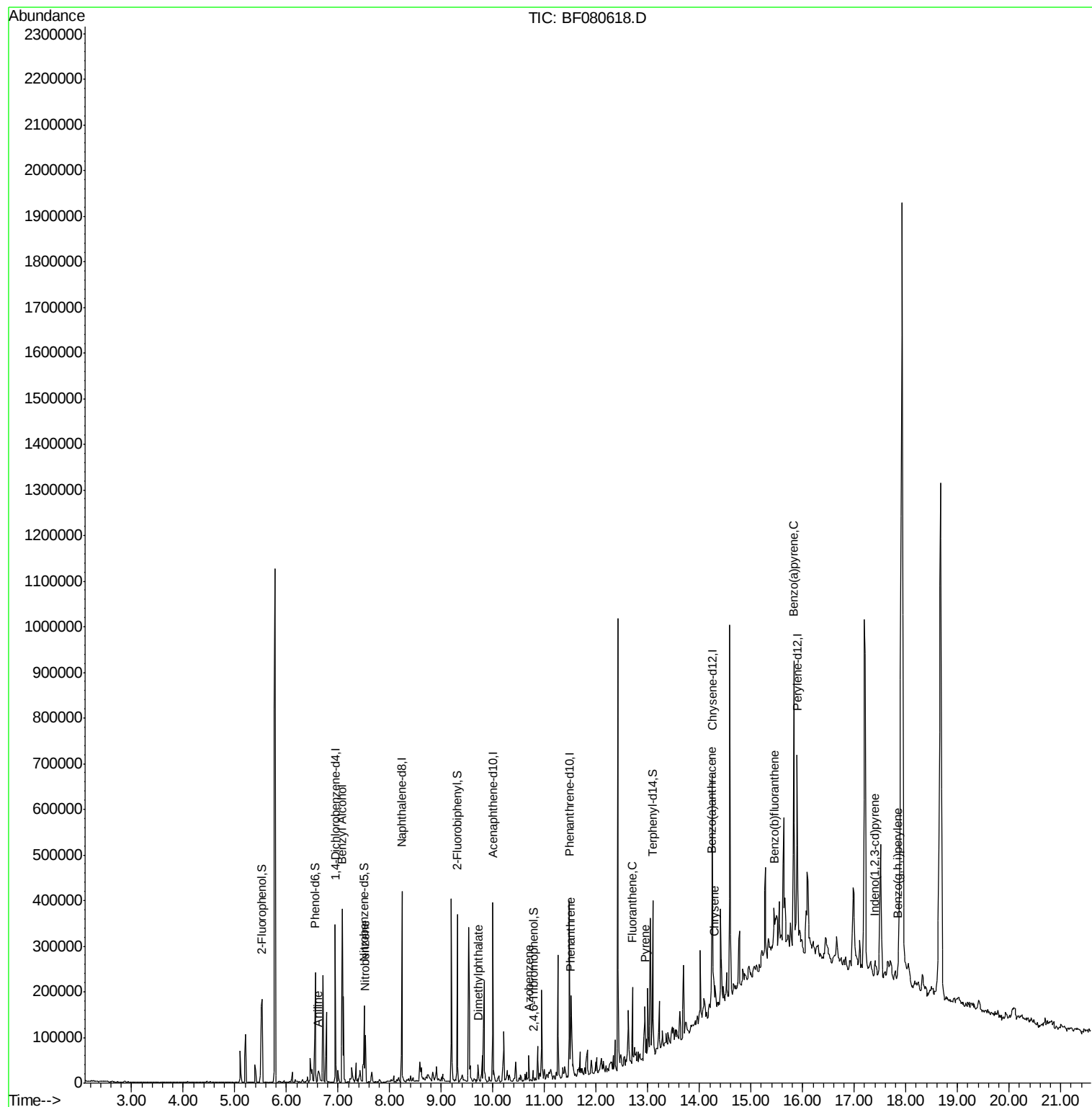
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF072315\  
Data File : BF080618.D  
Acq On : 24 Jul 2015 4:26  
Operator : TP/UM  
Sample : G3054-02 5X  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

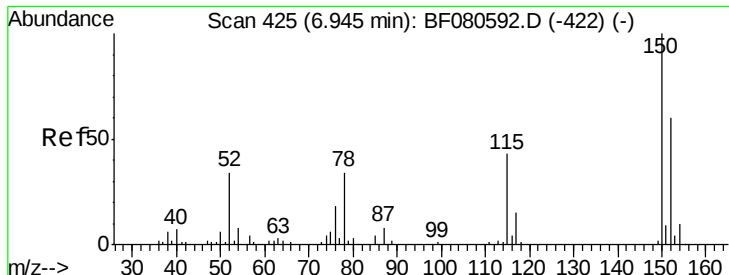
Instrument :  
BNA\_F  
ClientSampleId :  
CONC2

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Quant Time: Jul 24 06:24:54 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF072315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 24 01:01:51 2015  
Response via : Initial Calibration

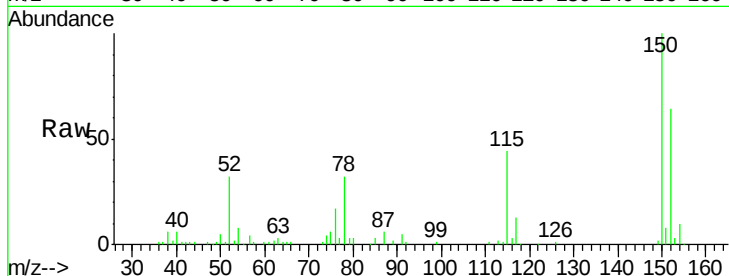




#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.94 min Scan# 425  
Delta R.T. 0.00 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

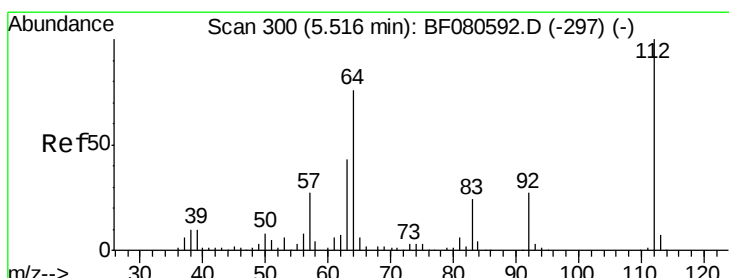
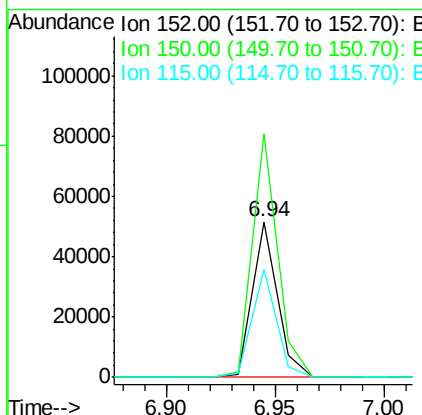
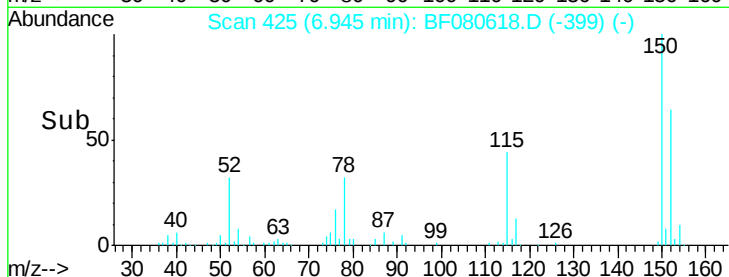
Instrument :  
BNA\_F  
ClientSampled :  
CONC2



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.1 | 128.7 | 193.1 |
| 115     | 69.1  | 56.8  | 85.2  |

Manual Integrations  
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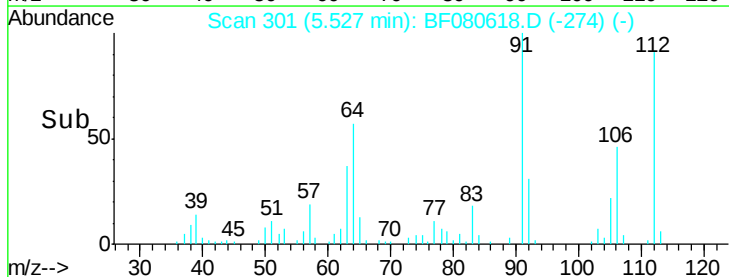
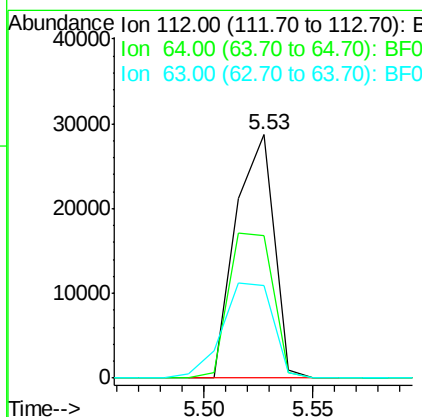
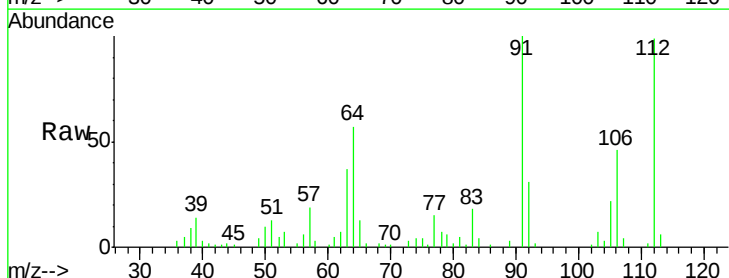
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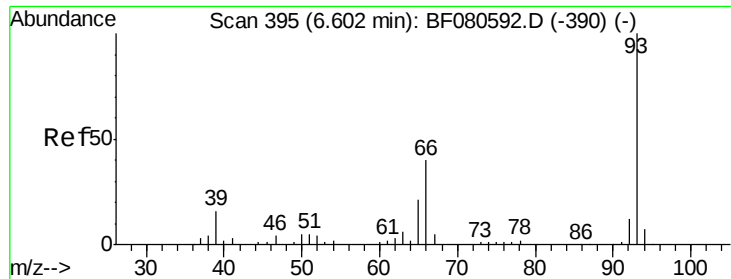


#5

2-Fluorophenol  
Concen: 14.56 ng  
RT: 5.53 min Scan# 301  
Delta R.T. 0.01 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.3  | 60.2  | 90.2# |
| 63      | 37.8  | 34.8  | 52.2  |





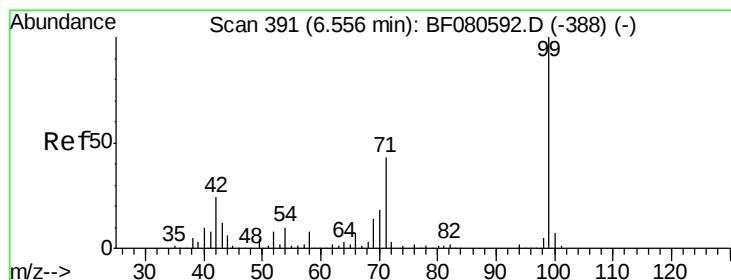
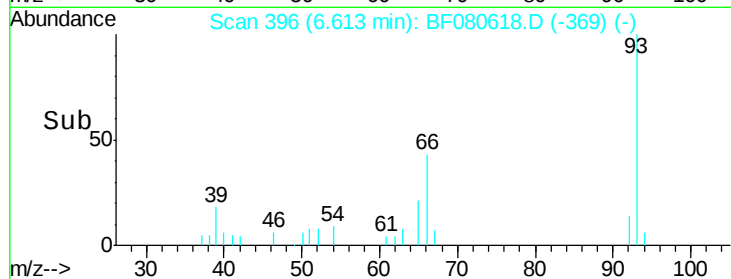
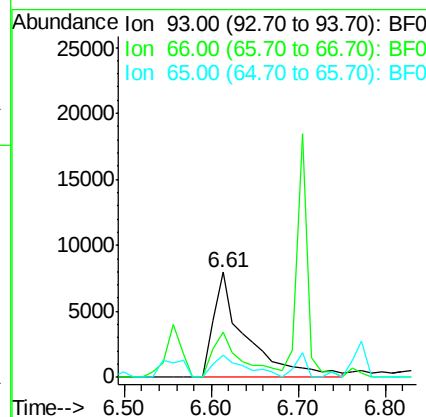
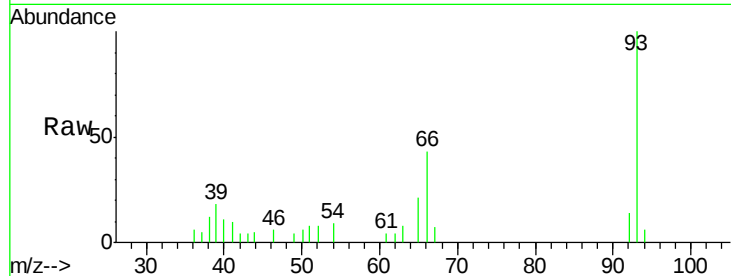
#6  
 Aniline  
 Concen: 4.76 ng  
 RT: 6.61 min Scan# 396  
 Delta R.T. 0.01 min  
 Lab File: BF080618.D  
 Acq: 24 Jul 2015 4:26

Instrument :  
 BNA\_F  
 ClientSampled :  
 CONC2

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 20374 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 66       | 42.6  | 33.1  | 49.7  |
| 65       | 20.9  | 17.2  | 25.8  |

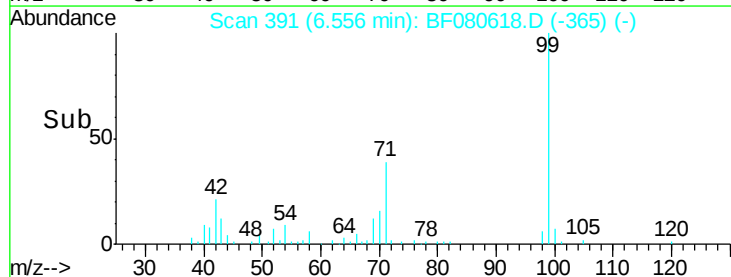
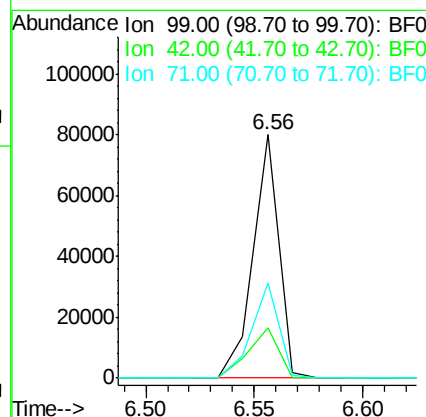
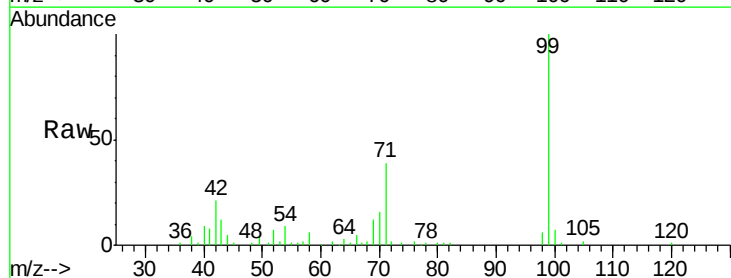
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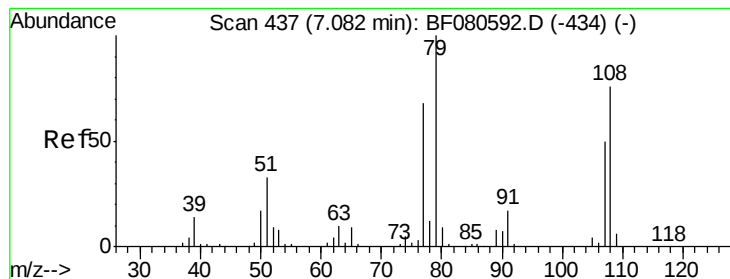
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#7  
 Phenol-d6  
 Concen: 22.33 ng  
 RT: 6.56 min Scan# 391  
 Delta R.T. 0.00 min  
 Lab File: BF080618.D  
 Acq: 24 Jul 2015 4:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 65350 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.8  | 17.4  | 26.2  |
| 71       | 39.0  | 29.0  | 43.6  |





#15

Benzyl Alcohol

Concen: 25.98 ng

RT: 7.08 min Scan# 437

Delta R.T. 0.00 min

Lab File: BF080618.D

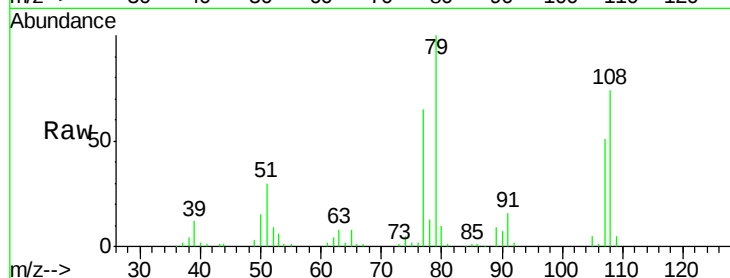
Acq: 24 Jul 2015 4:26

Instrument :

BNA\_F

ClientSampleId :

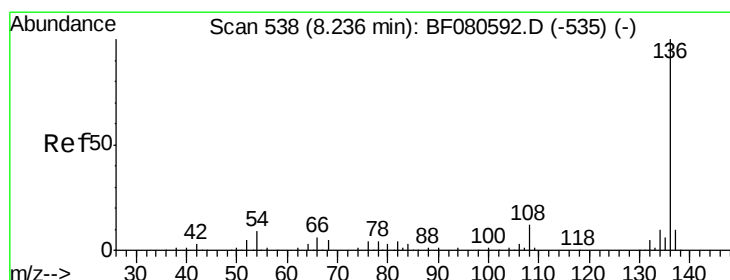
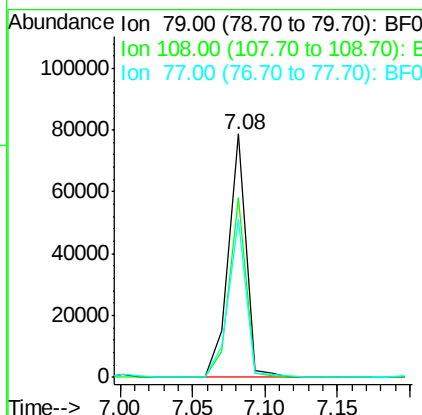
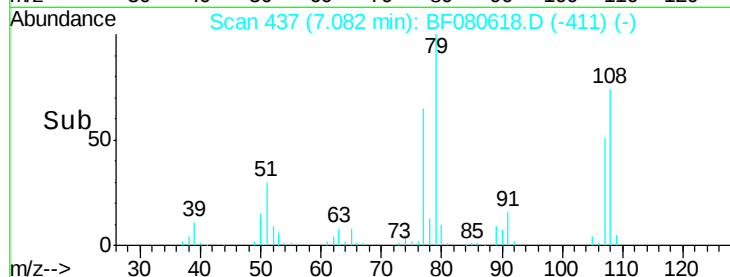
CONC2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 79    | Resp: | 67021 |
| Ion Ratio | Lower | Upper |       |
| 79        | 100   |       |       |
| 108       | 73.8  | 61.5  | 92.3  |
| 77        | 64.7  | 53.6  | 80.4  |

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#21

Naphthalene-d8

Concen: 20.00 ng

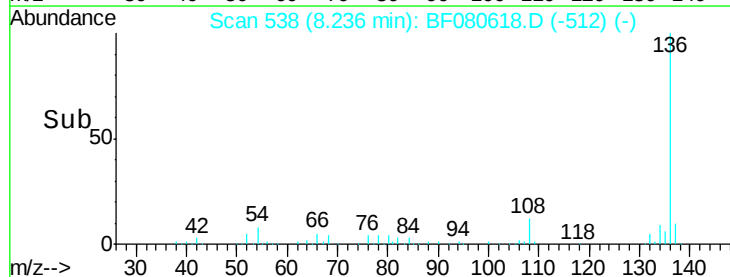
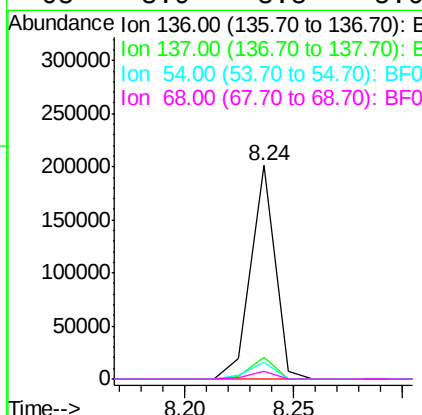
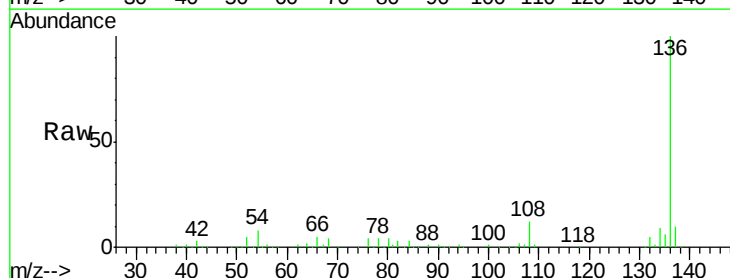
RT: 8.24 min Scan# 538

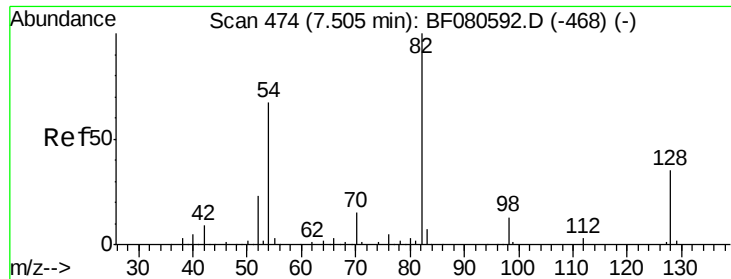
Delta R.T. 0.00 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 156160 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.4  | 7.8   | 11.8   |
| 54        | 7.7   | 7.2   | 10.8   |
| 68        | 3.9   | 3.8   | 5.6    |





#23

Nitrobenzene-d5

Concen: 15.22 ng

RT: 7.50 min Scan# 474

Delta R.T. 0.00 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

Instrument :

BNA\_F

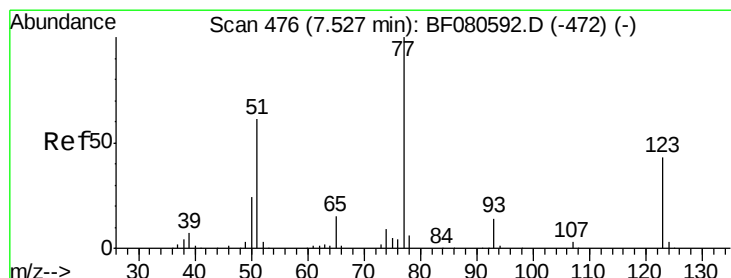
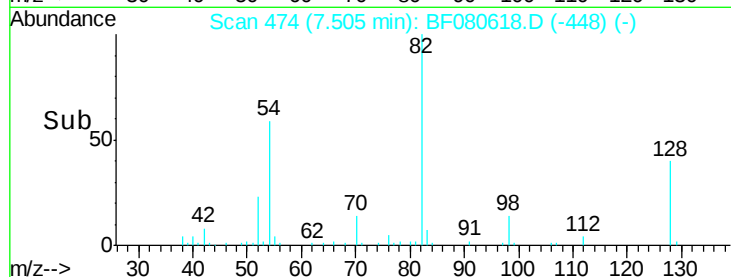
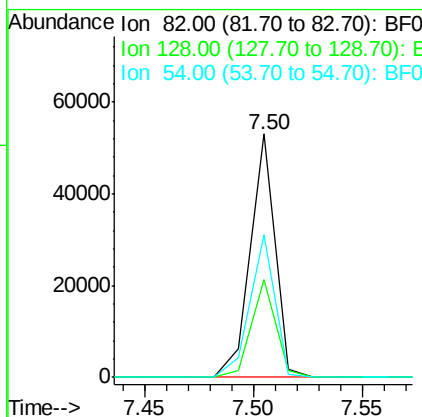
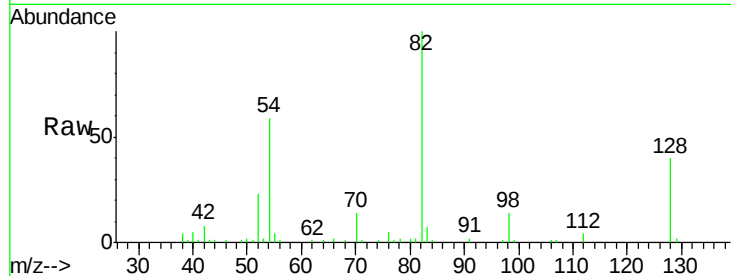
ClientSampled :

CONC2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 41954 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 40.2  | 28.9  | 43.3  |
| 54        | 58.6  | 54.5  | 81.7  |

Manual Integrations  
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#24

Nitrobenzene

Concen: 6.41 ng

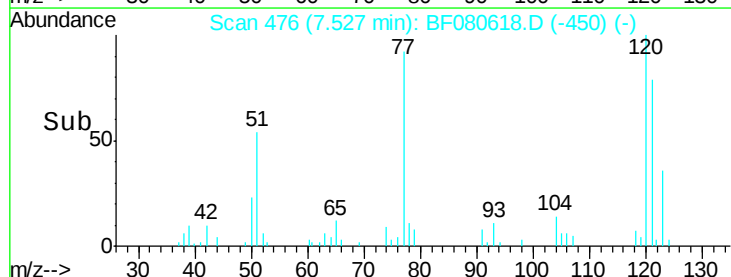
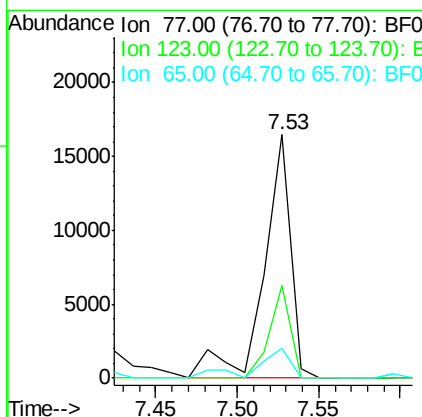
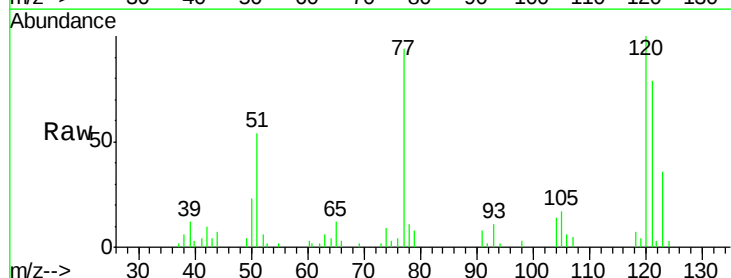
RT: 7.53 min Scan# 476

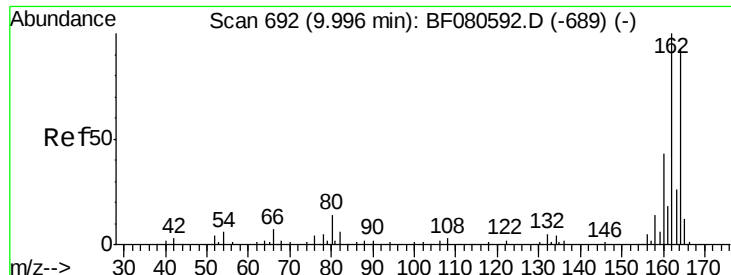
Delta R.T. 0.00 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 18875 |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 123       | 38.2  | 37.1  | 55.7  |
| 65        | 12.3  | 11.4  | 17.2  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.00 min Scan# 692

Delta R.T. 0.00 min

Lab File: BF080618.D

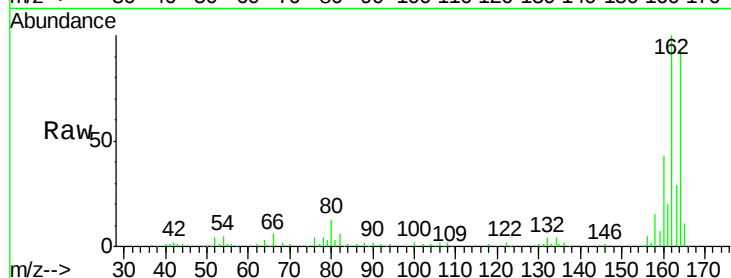
Acq: 24 Jul 2015 4:26

Instrument :

BNA\_F

ClientSampleId :

CONC2



Tgt Ion:164 Resp: 73592

Ion Ratio Lower Upper

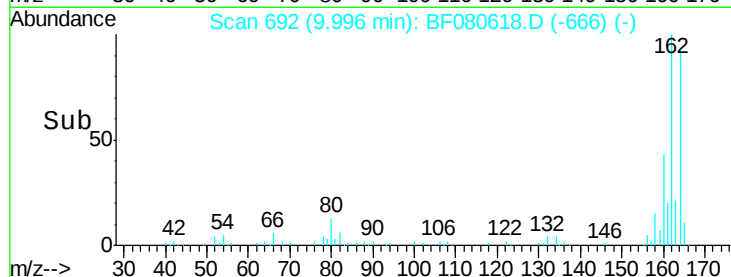
164 100

162 107.9 82.2 123.4

160 46.3 36.1 54.1

Manual Integrations  
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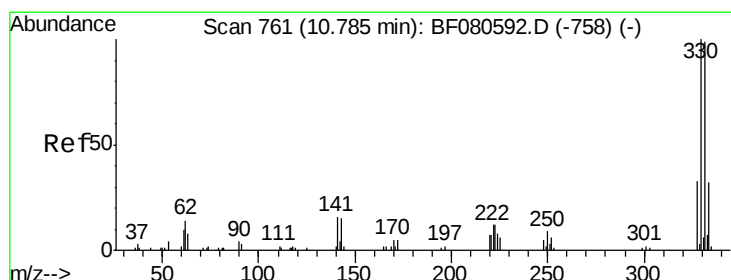
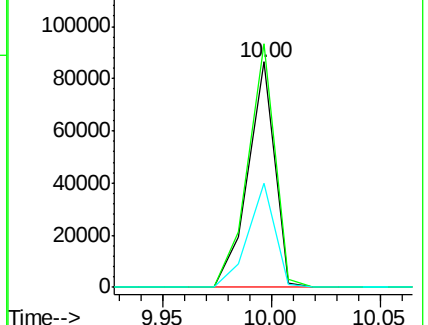
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7/24/2015 4:47:55 PM



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: 3.93 ng

RT: 10.78 min Scan# 761

Delta R.T. 0.01 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

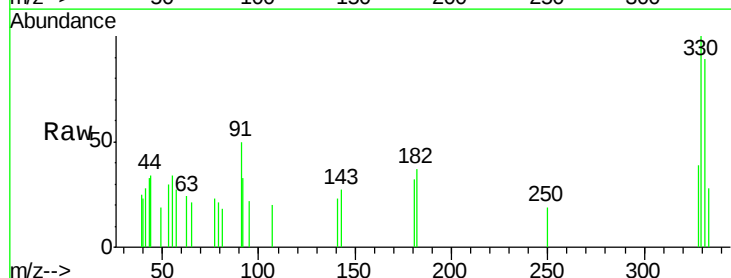
Tgt Ion:330 Resp: 2289

Ion Ratio Lower Upper

330 100

332 93.6 78.3 117.5

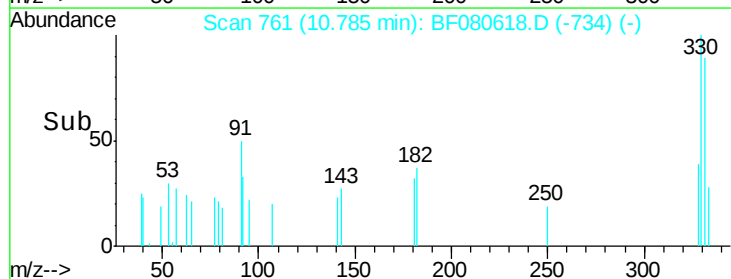
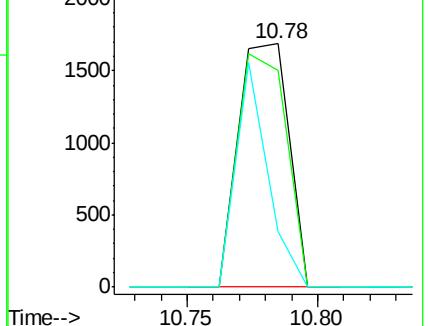
141 58.0 37.9 56.9#

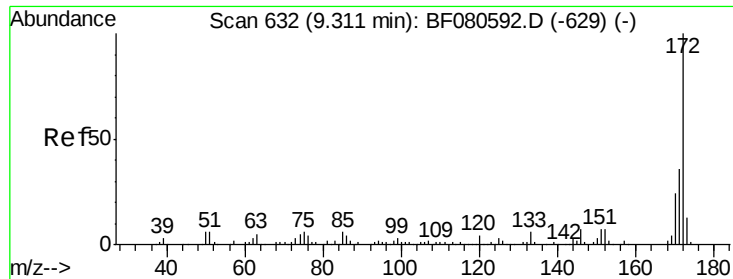


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 16.33 ng

RT: 9.31 min Scan# 632

Delta R.T. 0.00 min

Lab File: BF080618.D

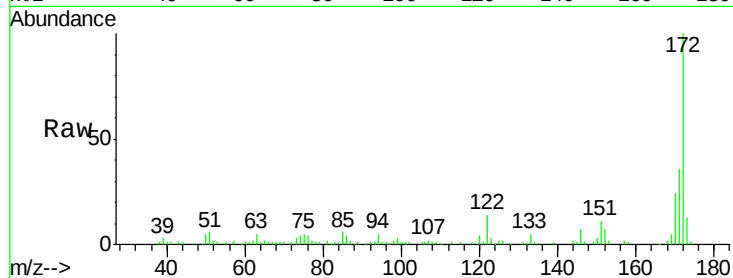
Acq: 24 Jul 2015 4:26

Instrument :

BNA\_F

ClientSampled :

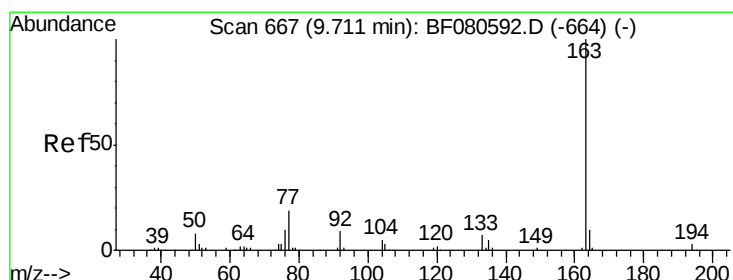
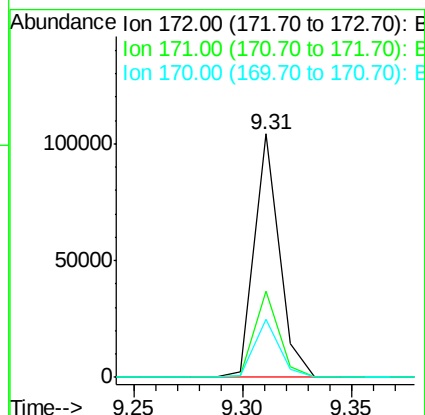
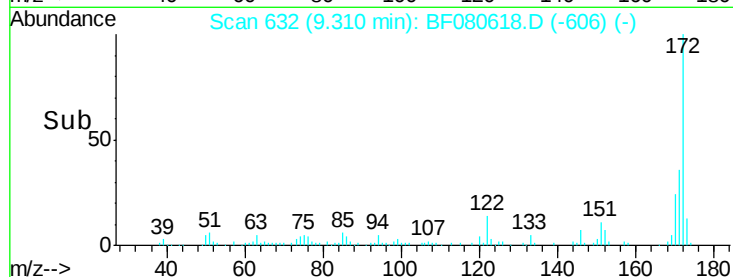
CONC2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 82844 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.6  | 27.7  | 41.5  |
| 170       | 24.0  | 19.1  | 28.7  |

Manual Integrations  
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#49

Dimethylphthalate

Concen: 3.05 ng

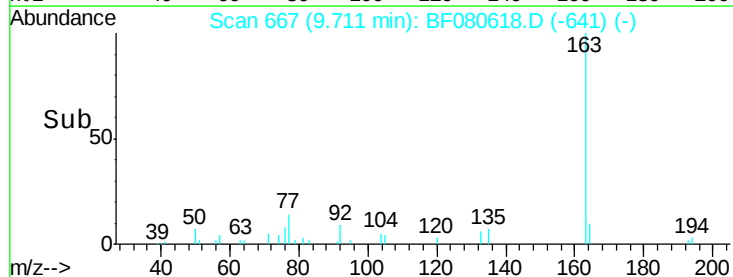
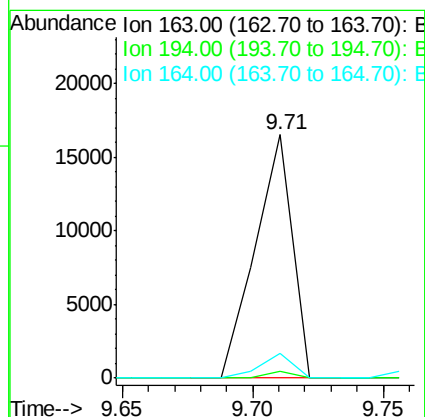
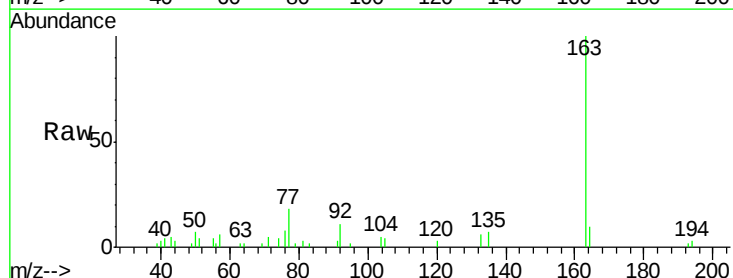
RT: 9.71 min Scan# 667

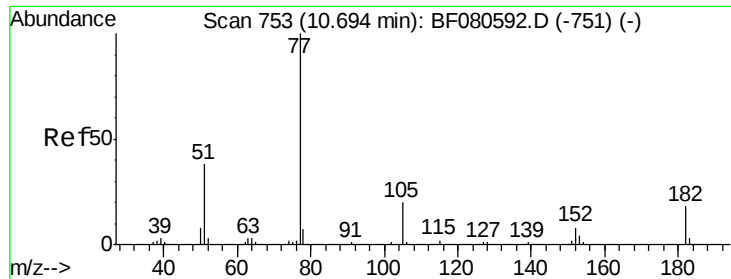
Delta R.T. 0.00 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 16493 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.0   | 2.5   | 3.7   |
| 164       | 10.2  | 8.1   | 12.1  |





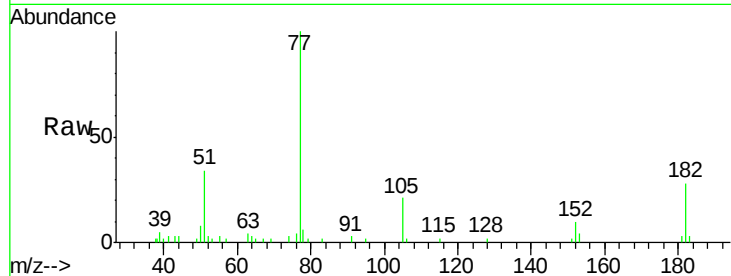
#62  
Azobenzene  
Concen: 3.48 ng  
RT: 10.69 min Scan# 753  
Delta R.T. 0.00 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

Instrument :  
BNA\_F  
ClientSampleId :  
CONC2

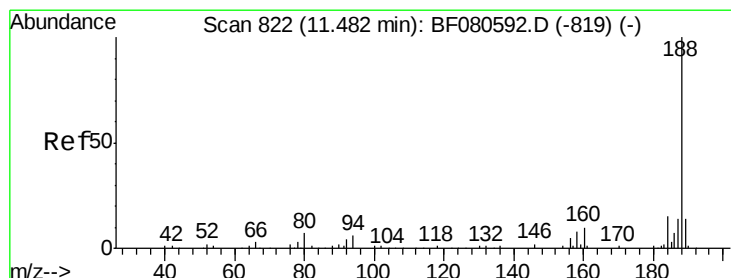
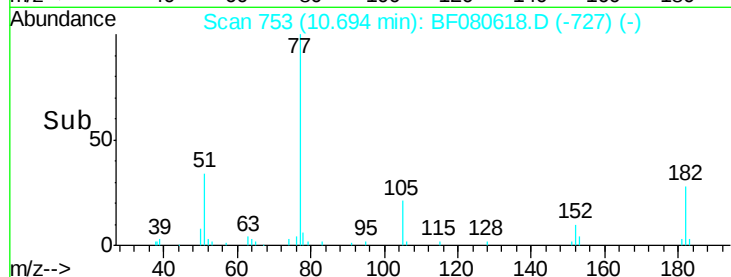
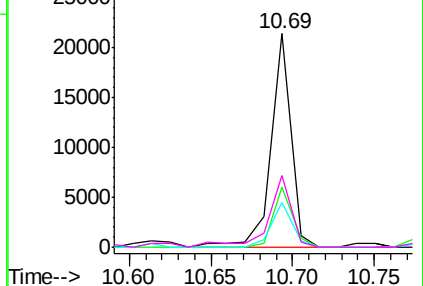
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 28.2  | 0.0   | 37.8  |
| 105     | 20.9  | 0.1   | 40.1  |
| 51      | 33.6  | 18.8  | 58.8  |

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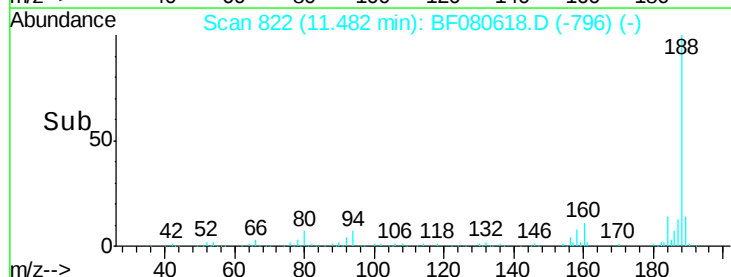
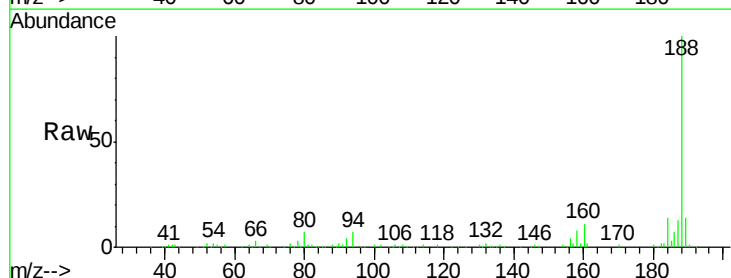
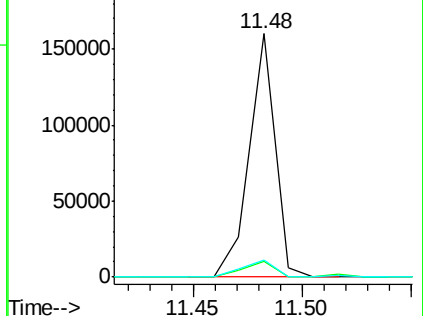
Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 182.00 (181.70 to 182.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 51.00 (50.70 to 51.70): BF0

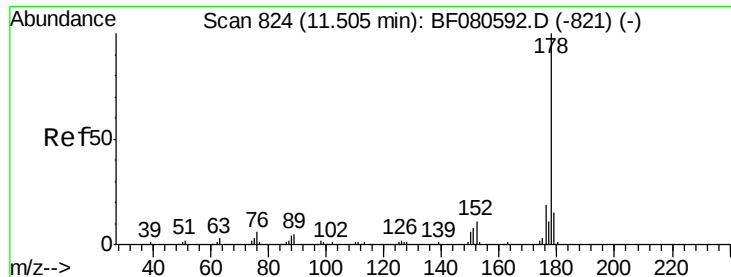


#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.48 min Scan# 822  
Delta R.T. 0.00 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.6   | 6.1   | 9.1   |
| 80      | 7.2   | 7.0   | 10.6  |

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





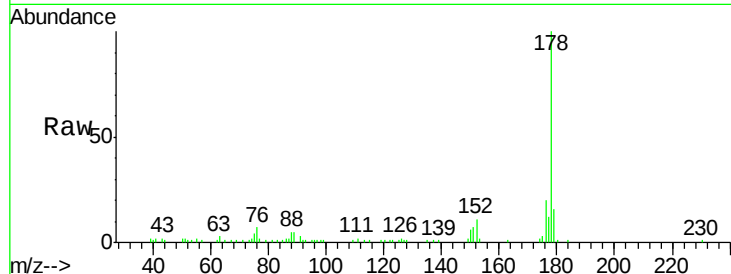
#70  
Phenanthrene  
Concen: 5.93 ng  
RT: 11.51 min Scan# 824  
Delta R.T. 0.00 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

Instrument :  
BNA\_F  
ClientSampleId :  
CONC2

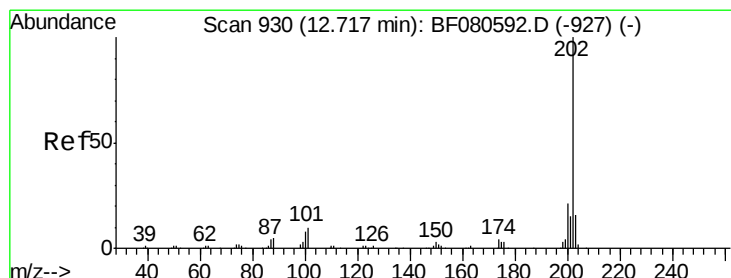
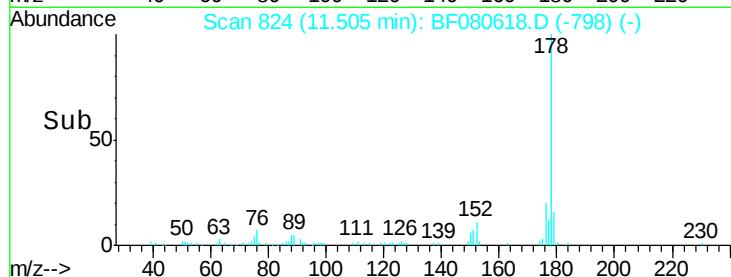
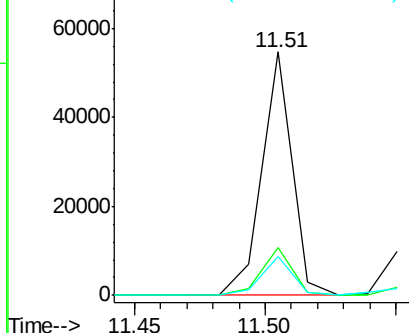
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.2  | 22.8  |
| 179     | 15.9  | 12.5  | 18.7  |

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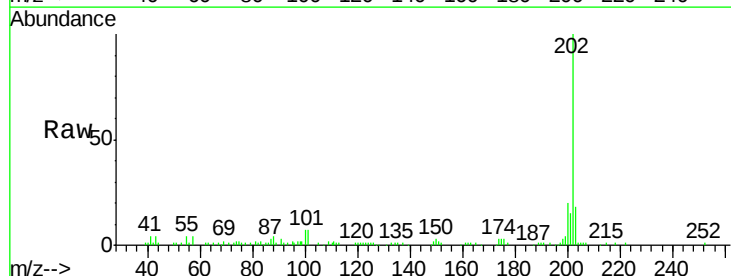


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

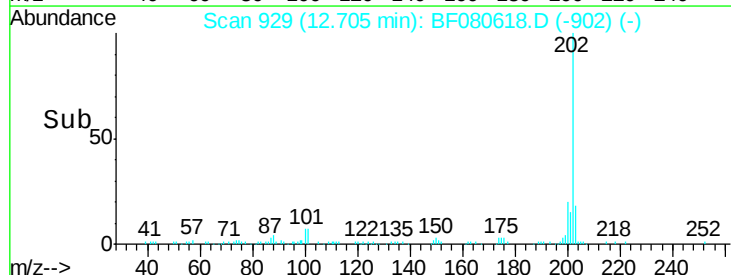
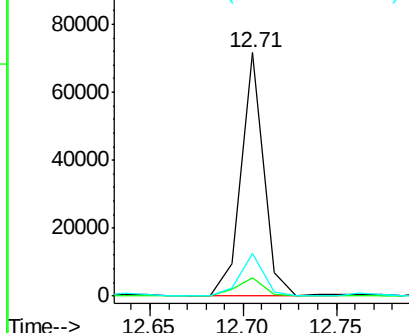


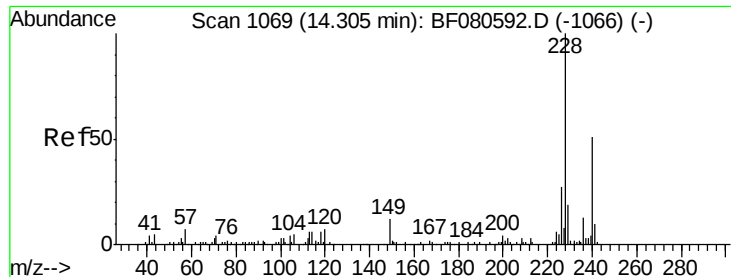
#74  
Fluoranthene  
Concen: 9.08 ng  
RT: 12.71 min Scan# 929  
Delta R.T. 0.01 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.4   | 0.0   | 31.1  |
| 203     | 17.6  | 0.0   | 37.5  |



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: 14.25 min Scan# 1064

Delta R.T. 0.07 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

Instrument :

BNA\_F

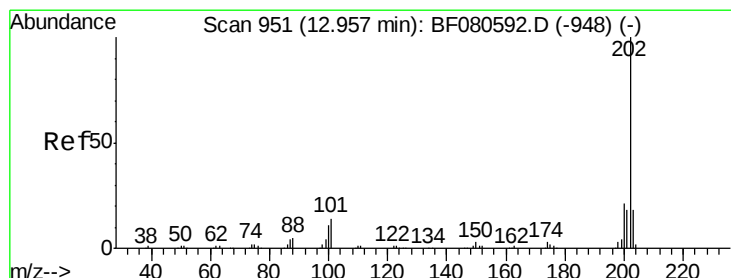
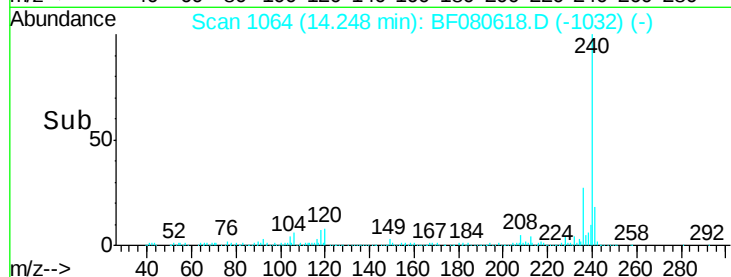
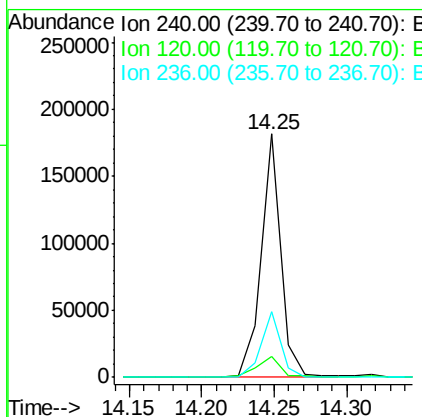
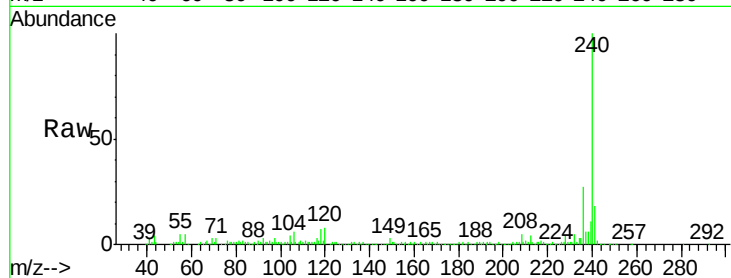
ClientSampleId :

CONC2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 171633 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.4   | 9.9   | 14.9#  |
| 236       | 26.8  | 19.1  | 28.7   |

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#77

Pyrene

Concen: 4.93 ng

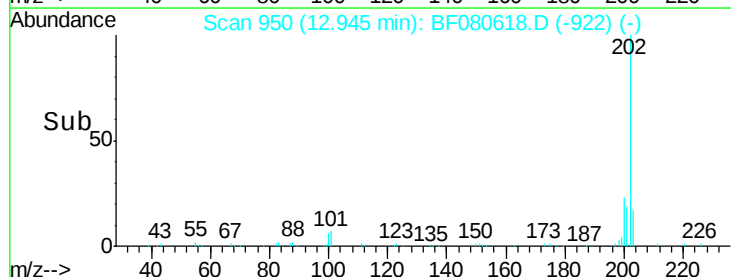
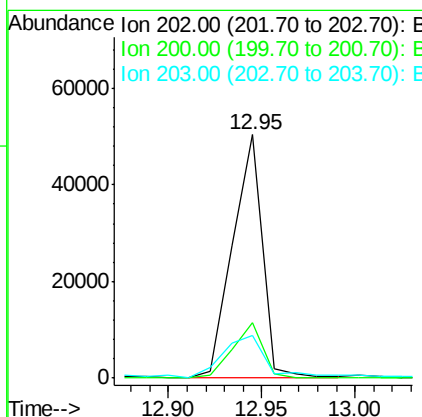
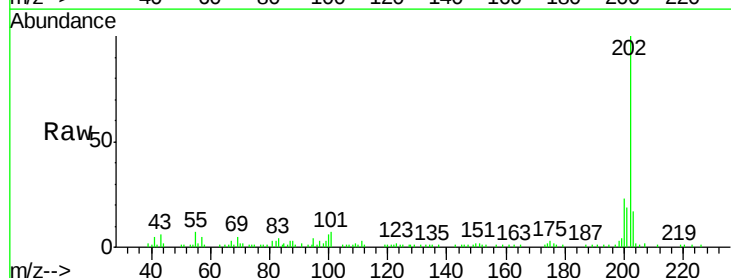
RT: 12.95 min Scan# 950

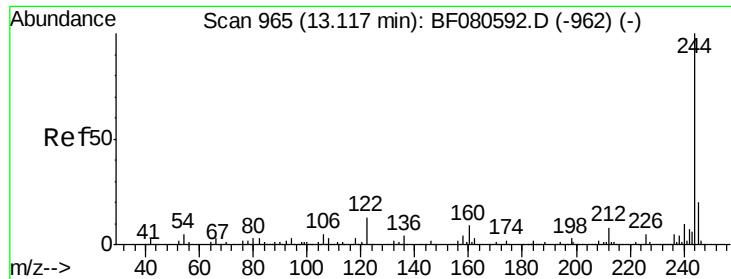
Delta R.T. 0.02 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 56750 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 22.6  | 16.9  | 25.3  |
| 203       | 17.4  | 14.5  | 21.7  |





#78

Terphenyl-d14

Concen: 10.46 ng

RT: 13.09 min Scan# 963

Delta R.T. 0.02 min

Lab File: BF080618.D

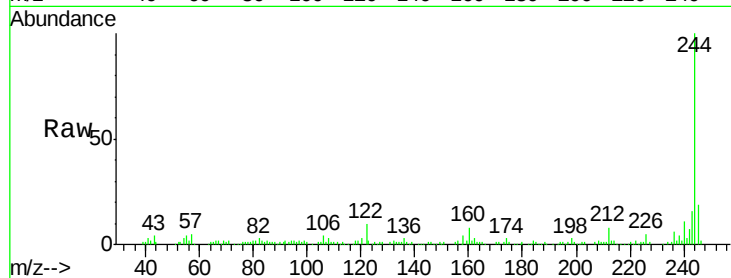
Acq: 24 Jul 2015 4:26

Instrument :

BNA\_F

ClientSampled :

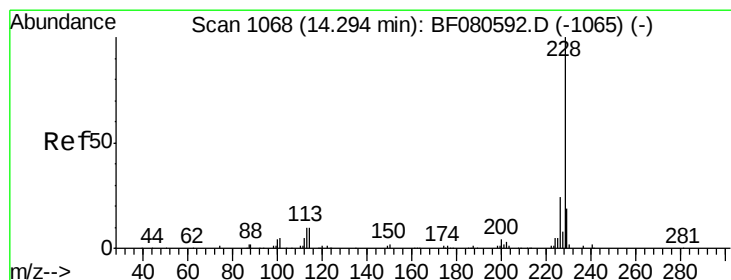
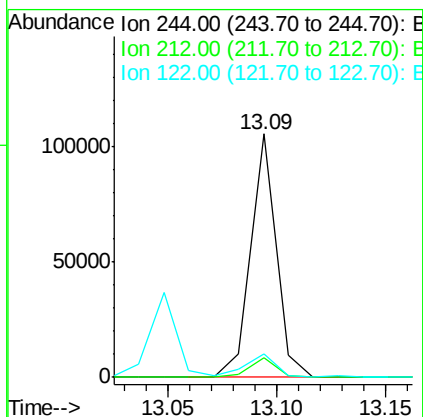
CONC2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 85821 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 7.9   | 6.0   | 9.0   |
| 122       | 9.7   | 8.2   | 12.2  |

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#80

Benzo(a)anthracene

Concen: 4.21 ng m

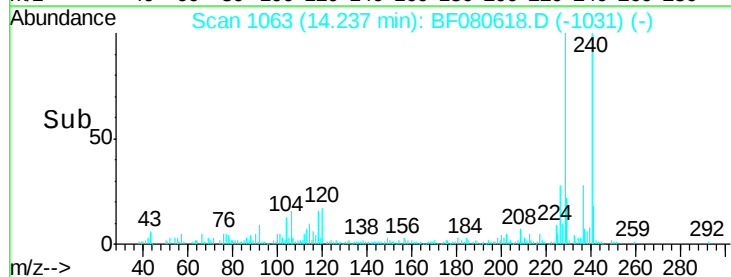
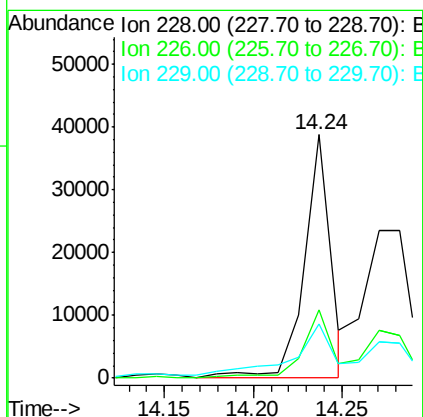
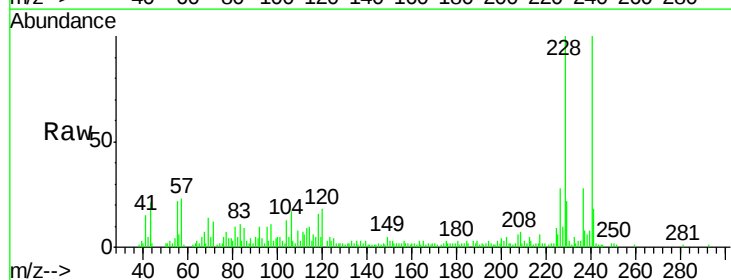
RT: 14.24 min Scan# 1063

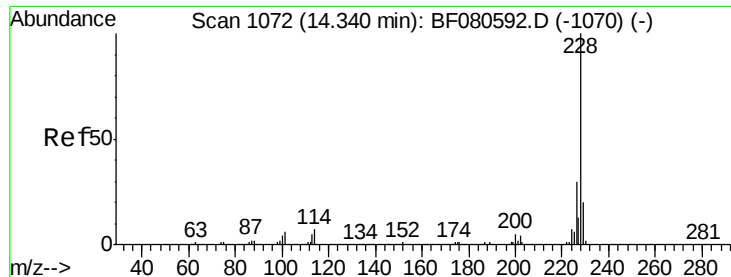
Delta R.T. 0.07 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 40707 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.0  | 22.0  | 33.0  |
| 229       | 22.4  | 15.7  | 23.5  |





#82

Chrysene

Concen: 4.28 ng m

RT: 14.28 min Scan# 1067

Delta R.T. 0.07 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

Instrument :

BNA\_F

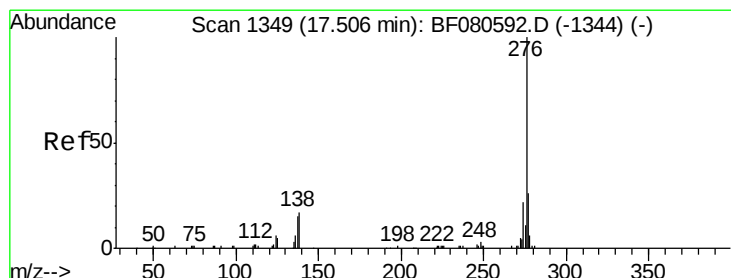
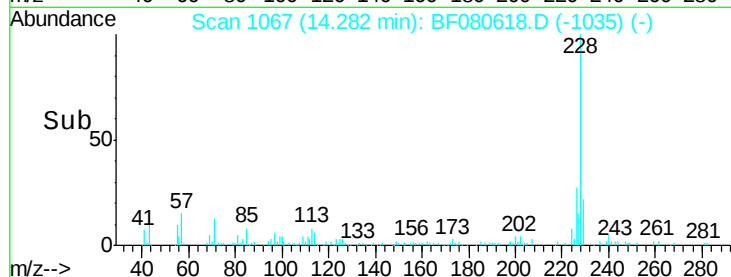
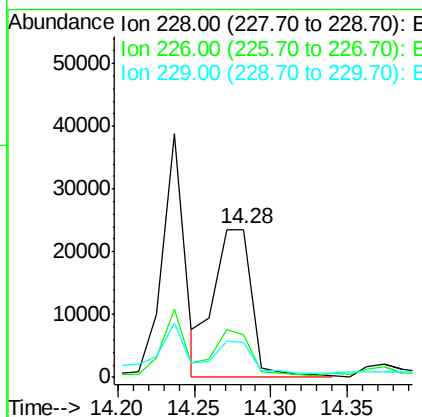
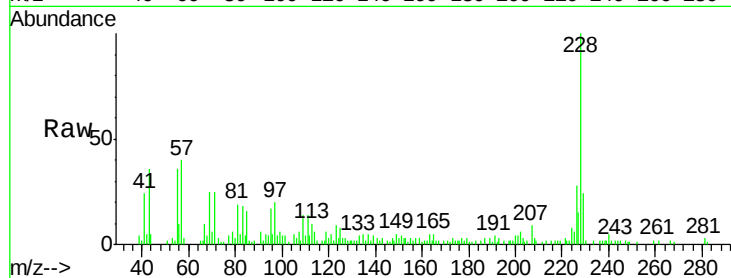
ClientSampled :

CONC2

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 41247 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 28.4 | 23.0  | 34.6  |
| 229       | 23.6 | 15.0  | 22.4# |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 3.52 ng

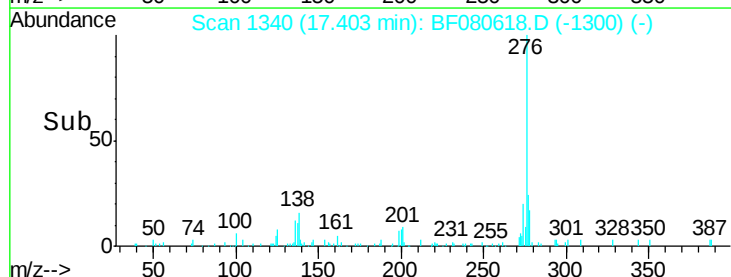
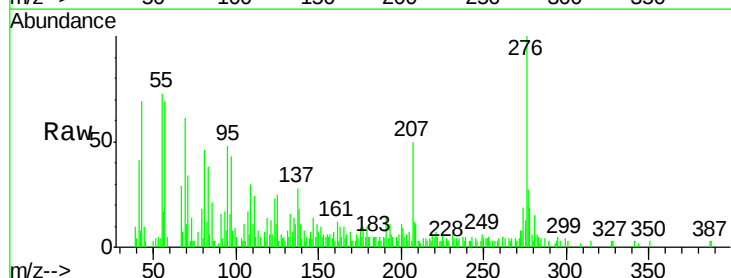
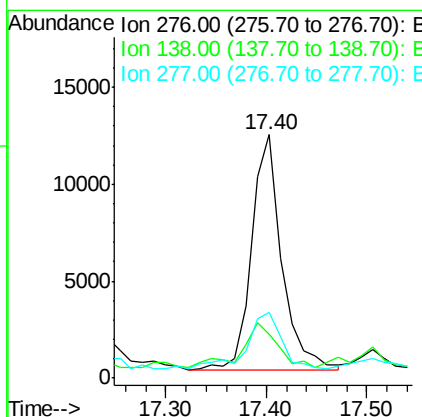
RT: 17.40 min Scan# 1340

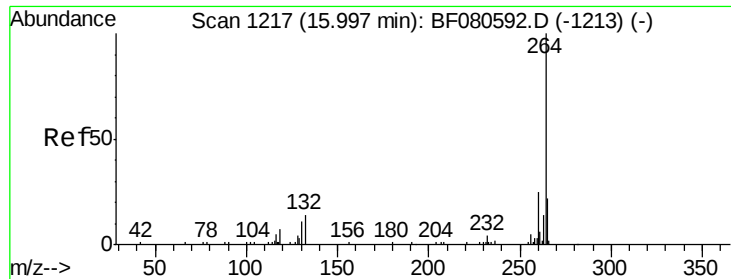
Delta R.T. 0.16 min

Lab File: BF080618.D

Acq: 24 Jul 2015 4:26

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 25662 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 138       | 22.2 | 18.9  | 28.3  |
| 277       | 27.8 | 19.9  | 29.9  |





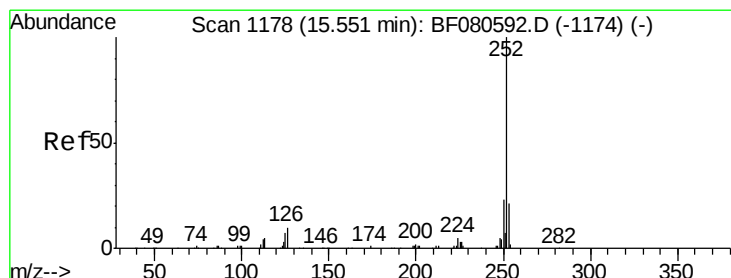
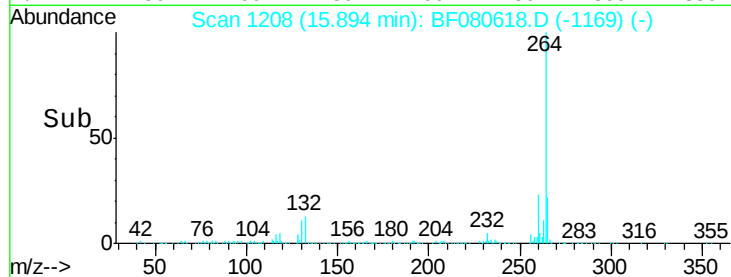
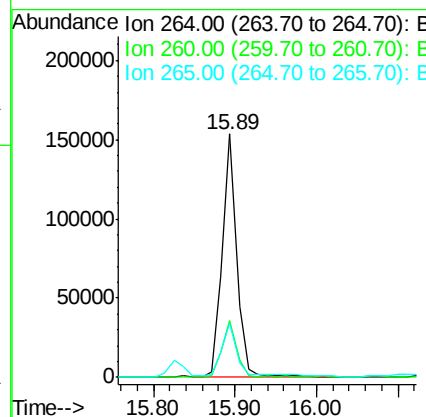
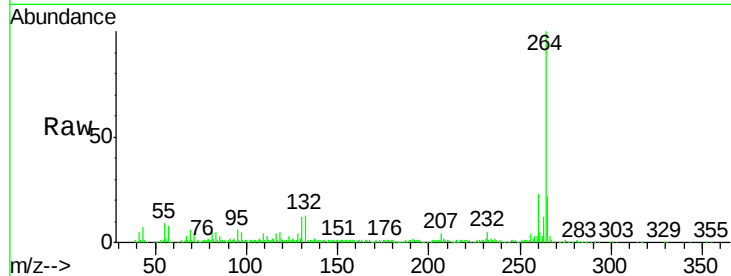
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.89 min Scan# 1208  
Delta R.T. 0.15 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

Instrument :  
BNA\_F  
ClientSampleId :  
CONC2

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 187698 |       |       |
| 260     | 23.1  | 17.8   | 26.8  |       |
| 265     | 22.3  | 15.6   | 23.4  |       |

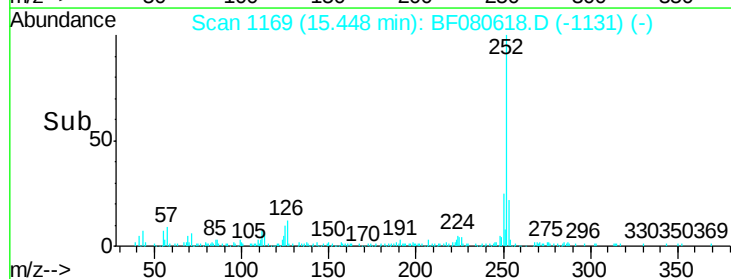
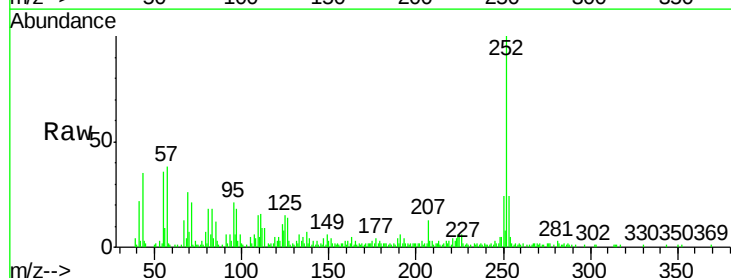
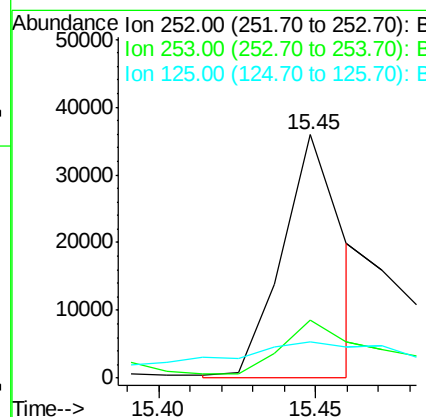
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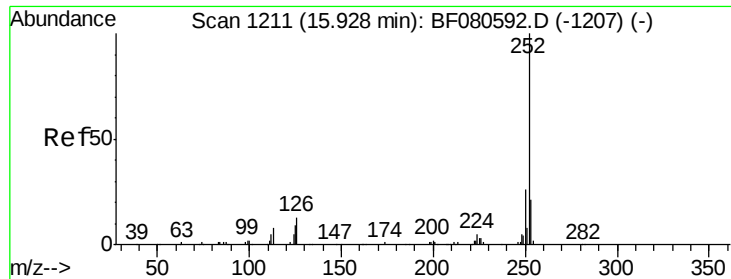
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#87  
Benzo(b)fluoranthene  
Concen: 4.24 ng m  
RT: 15.45 min Scan# 1169  
Delta R.T. 0.14 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 48384 |       |       |
| 253     | 23.9  | 16.6  | 25.0  |       |
| 125     | 15.1  | 6.1   | 9.1   |       |





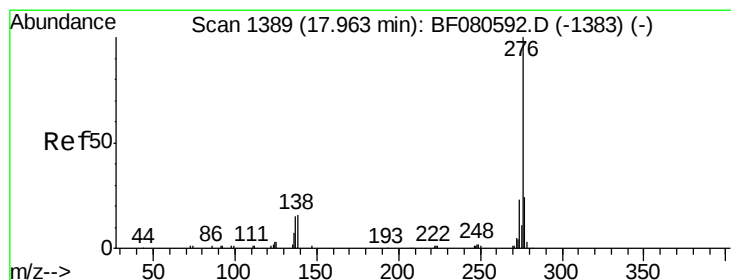
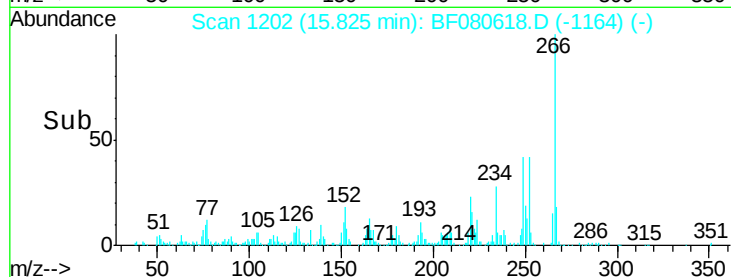
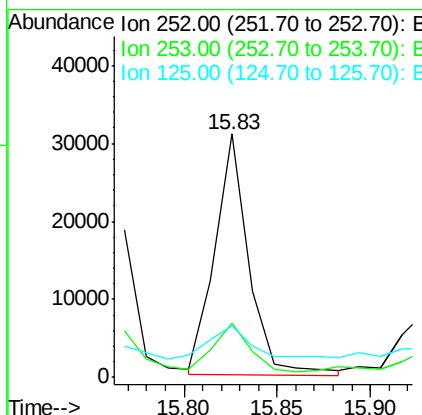
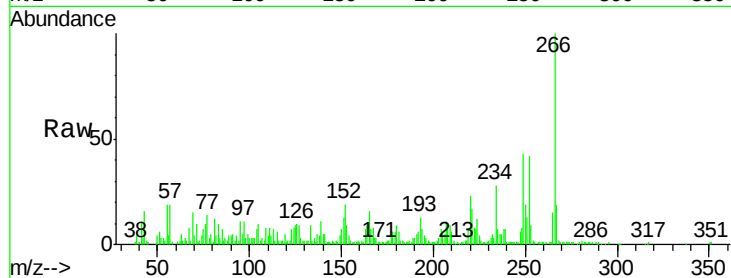
#89  
Benzo(a)pyrene  
Concen: 3.89 ng  
RT: 15.83 min Scan# 1202  
Delta R.T. 0.14 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

Instrument :  
BNA\_F  
ClientSampleId :  
CONC2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 19.0  | 28.6  |
| 125     | 21.4  | 11.2  | 16.8  |

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#91  
Benzo(g,h,i)perylene  
Concen: 3.26 ng  
RT: 17.85 min Scan# 1379  
Delta R.T. 0.17 min  
Lab File: BF080618.D  
Acq: 24 Jul 2015 4:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.6  | 18.0  | 27.0  |
| 138     | 29.1  | 17.8  | 26.6  |

