

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\  
 Data File : BF085790.D  
 Acq On : 26 Mar 2016 4:49  
 Operator : UM/SJ  
 Sample : H1923-03  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-PG-C(0-6)

Manual Integrations  
 APPROVED

Sohil  
 3/28/2016 8:00:11 PM

Quant Time: Mar 26 05:36:47 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 24 14:15:39 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 116364   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.10  | 136  | 400587   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.86  | 164  | 163520   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.34 | 188  | 263356   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.98 | 240  | 248984   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.40 | 264  | 181956   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 816215   | 116.82 | ng    | 0.02     |
| 7) Phenol-d6                | 6.47  | 99   | 1049692  | 118.16 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 639344   | 89.88  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330  | 153706   | 98.93  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.19  | 172  | 855748   | 87.44  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.93 | 244  | 524803   | 43.35  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.58  | 163  | 125176   | 10.09  | ng    | 99       |
| 70) Phenanthrene            | 11.37 | 178  | 72779    | 5.38   | ng    | 97       |
| 74) Fluoranthene            | 12.55 | 202  | 162147   | 11.28  | ng    | 98       |
| 77) Pyrene                  | 12.78 | 202  | 155039   | 7.58   | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.97 | 228  | 75028    | 5.28   | ng    | 98       |
| 82) Chrysene                | 14.00 | 228  | 101353m  | 7.09   | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.78 | 276  | 49894    | 4.52   | ng    | 92       |
| 87) Benzo(b)fluoranthene    | 15.00 | 252  | 125867m  | 10.98  | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.01 | 252  | 42730m   | 4.14   | ng    |          |
| 89) Benzo(a)pyrene          | 15.34 | 252  | 71989    | 7.07   | ng    | 96       |
| 91) Benzo(g,h,i)perylene    | 17.20 | 276  | 56479    | 5.90   | ng    | 97       |

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

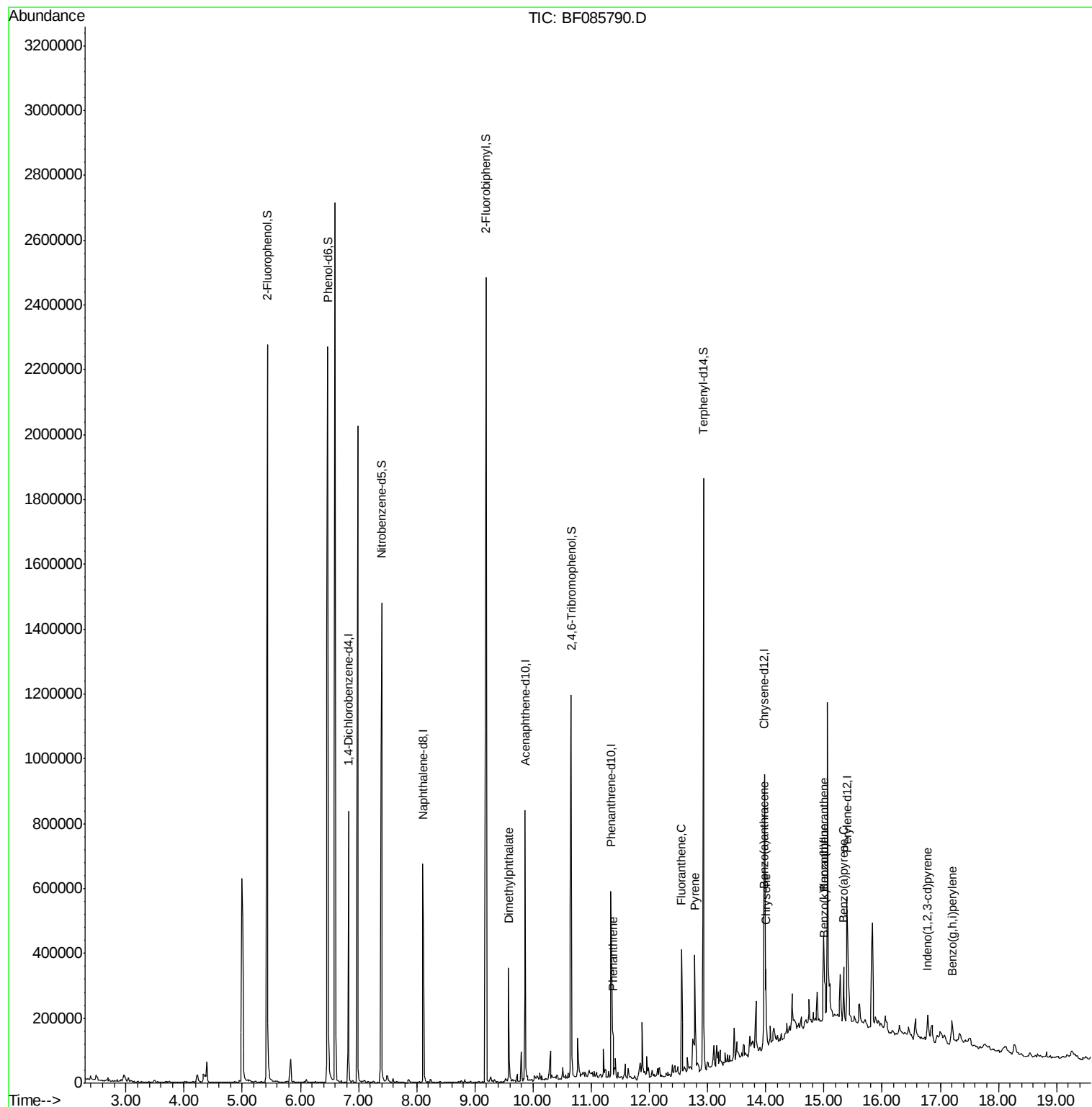
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032516\  
Data File : BF085790.D  
Acq On : 26 Mar 2016 4:49  
Operator : UM/SJ  
Sample : H1923-03  
Misc :  
ALS Vial : 40 Sample Multiplier: 1

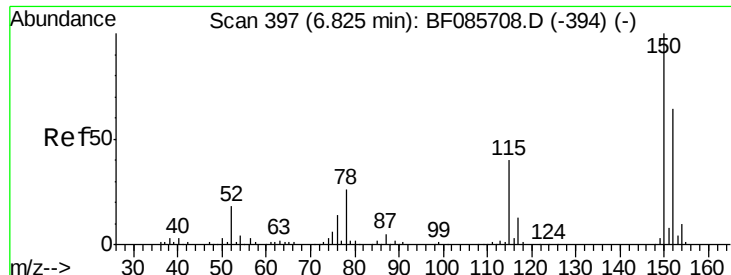
Instrument :  
BNA\_F  
ClientSampleId :  
S-PG-C(0-6)

Manual Integrations  
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3/28/2016 8:00:11 PM

Quant Time: Mar 26 05:36:47 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 24 14:15:39 2016  
Response via : Initial Calibration





#1

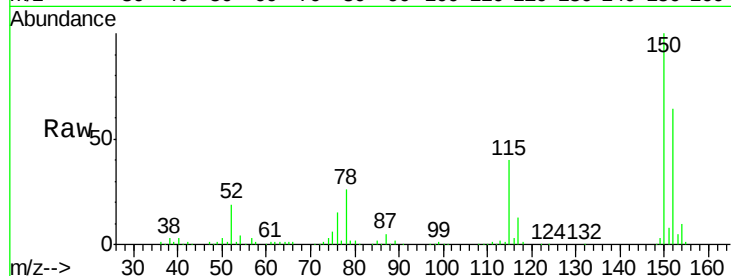
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.82 min Scan# 397  
Delta R.T. -0.00 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
S-PG-C(0-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 124.2 | 186.2 |
| 115     | 63.2  | 47.0  | 70.6  |

Manual Integrations  
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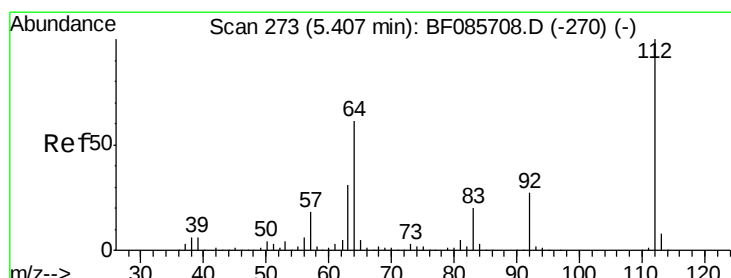
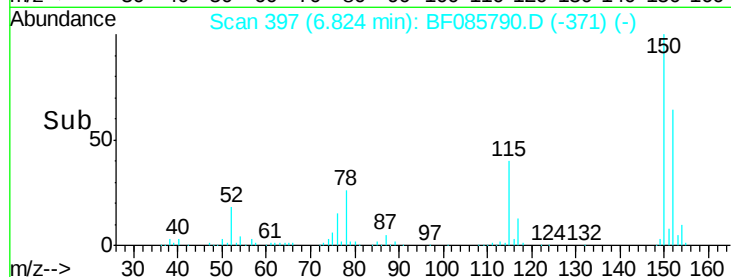
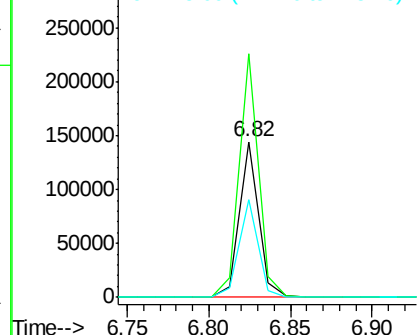


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

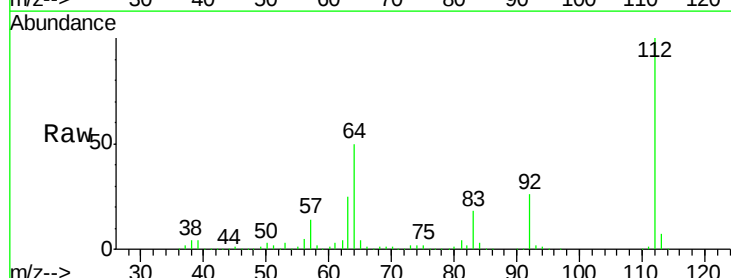
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 116.82 ng  
RT: 5.43 min Scan# 275  
Delta R.T. 0.02 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.4  | 39.9  | 59.9  |
| 63      | 25.5  | 20.2  | 30.2  |

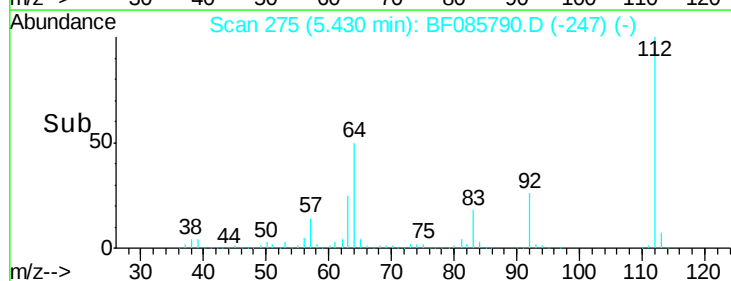
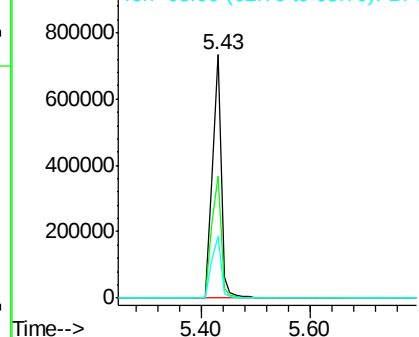


Abundance

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: 118.16 ng

RT: 6.47 min Scan# 366

Delta R.T. 0.01 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

Instrument :

BNA\_F

ClientSampleId :

S-PG-C(0-6)

Tot Ion: 99 Resp: 1049692

Ion Ratio Lower Upper

99 100

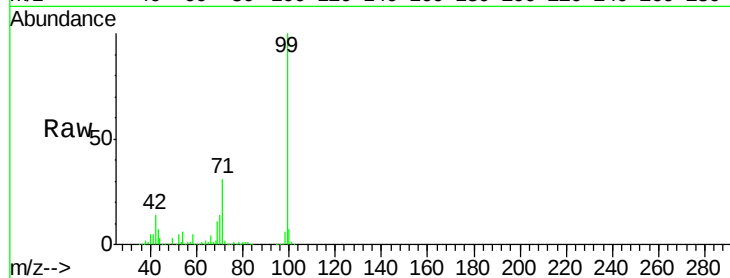
42 13.6 11.1 16.7

71 30.9 24.9 37.3

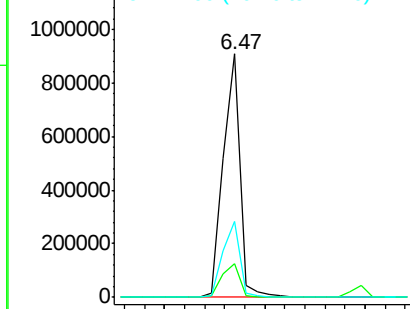
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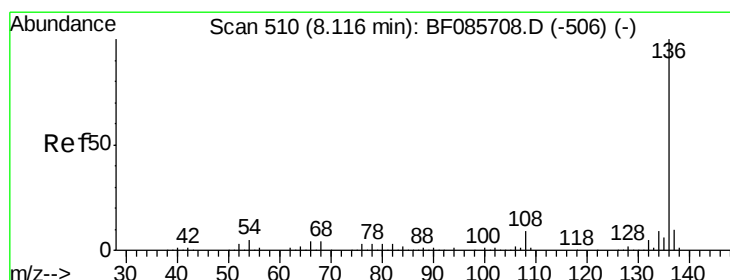
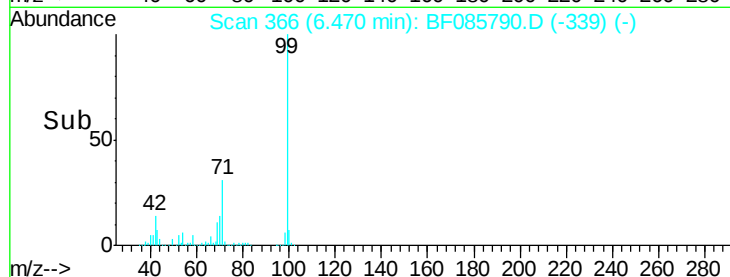
3/28/2016 8:00:11 PM



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



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.10 min Scan# 509

Delta R.T. -0.01 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

Tgt Ion: 136 Resp: 400587

Ion Ratio Lower Upper

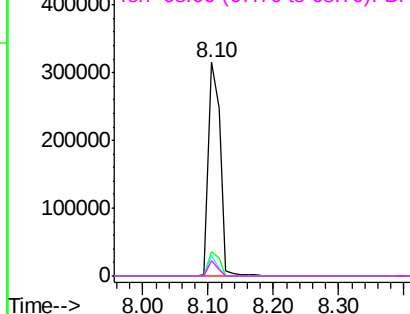
136 100

137 11.3 9.1 13.7

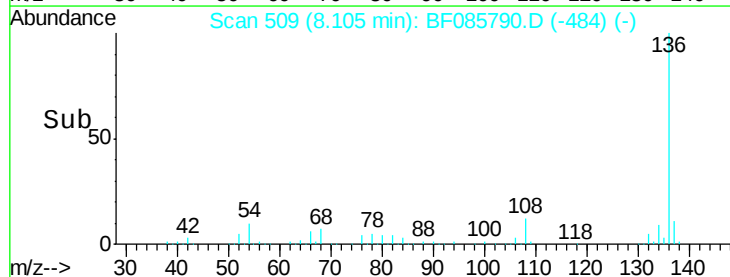
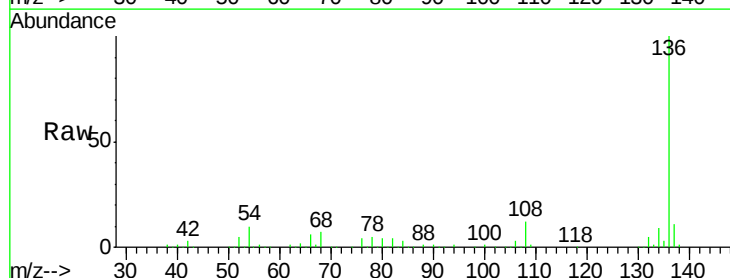
54 9.6 7.4 11.0

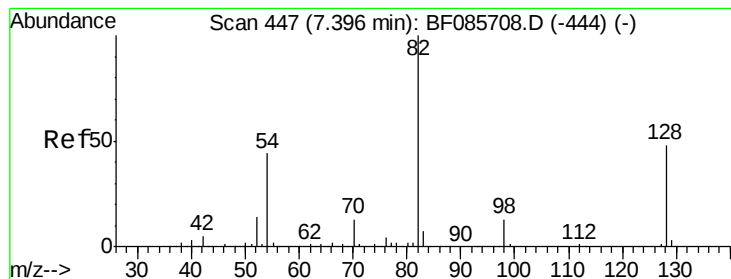
68 7.3 5.8 8.8

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



Time-->





#23

Nitrobenzene-d5

Concen: 89.88 ng

RT: 7.40 min Scan# 447

Delta R.T. -0.00 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

Instrument :

BNA\_F

ClientSampleId :

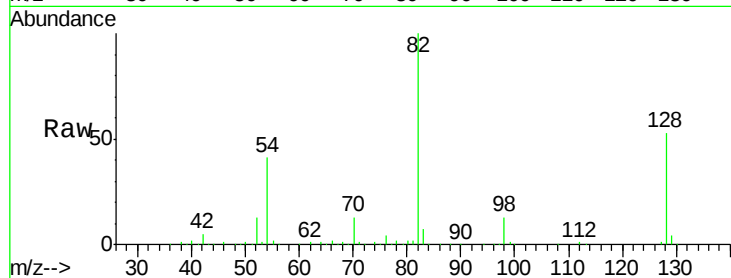
S-PG-C(0-6)

Tot Ion: 82 Resp: 639344

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 52.8  | 41.8  | 62.8  |
| 54  | 41.2  | 33.4  | 50.0  |

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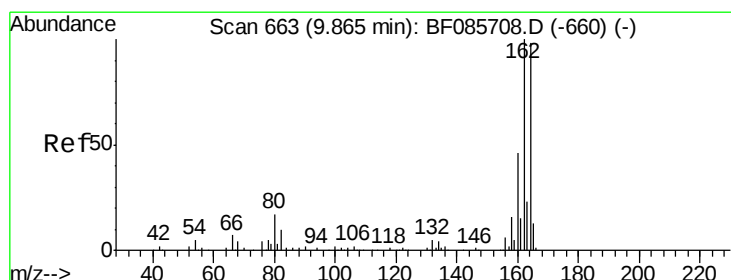
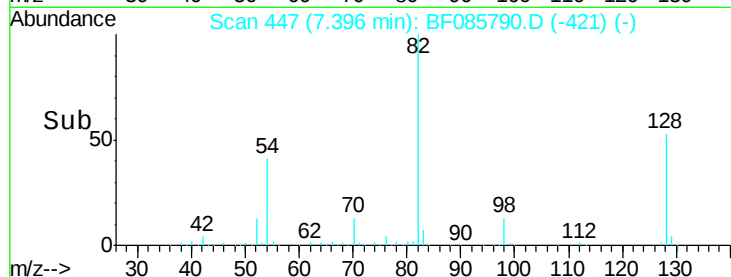
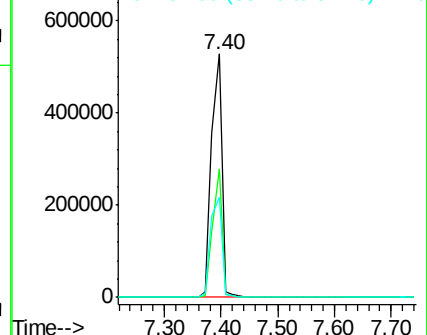
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Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.86 min Scan# 663

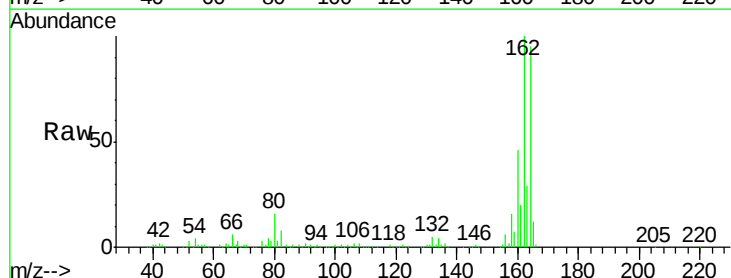
Delta R.T. -0.00 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

Tgt Ion: 164 Resp: 163520

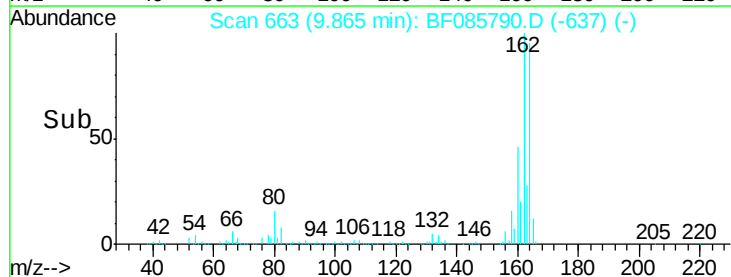
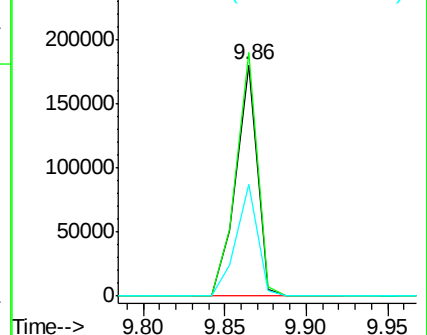
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 105.3 | 82.1  | 123.1 |
| 160 | 48.3  | 37.4  | 56.2  |

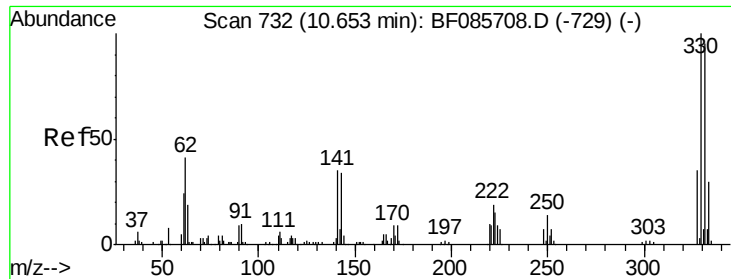


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





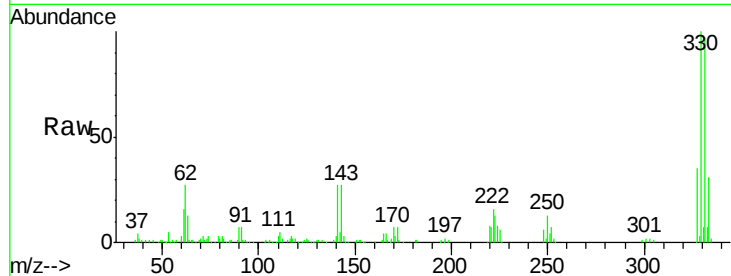
#41  
 2,4,6-Tribromophenol  
 Concen: 98.93 ng  
 RT: 10.65 min Scan# 732  
 Delta R.T. -0.00 min  
 Lab File: BF085790.D  
 Acq: 26 Mar 2016 4:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-PG-C(0-6)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 153706 |       |       |
| 332     | 97.4  | 78.2   | 117.2 |       |
| 141     | 39.1  | 31.5   | 47.3  |       |

Manual Integrations  
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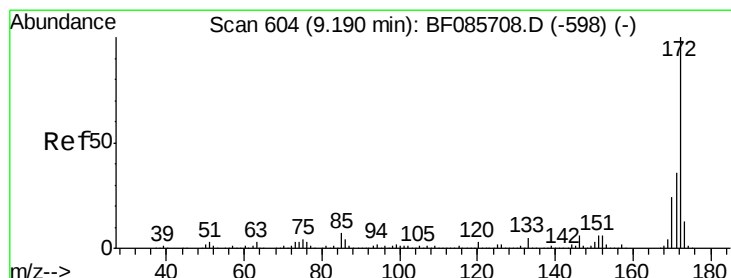
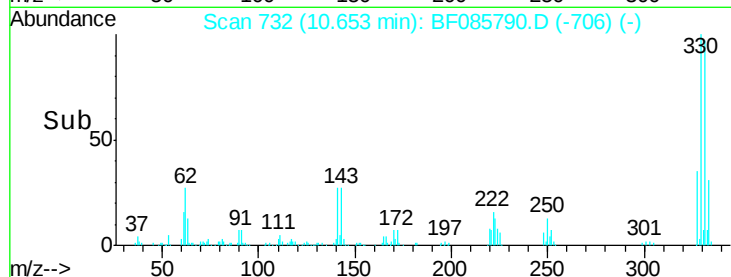
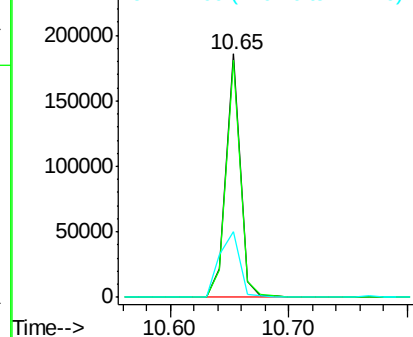


Abundance

Ion 329.80 (329.50 to 330.50): E

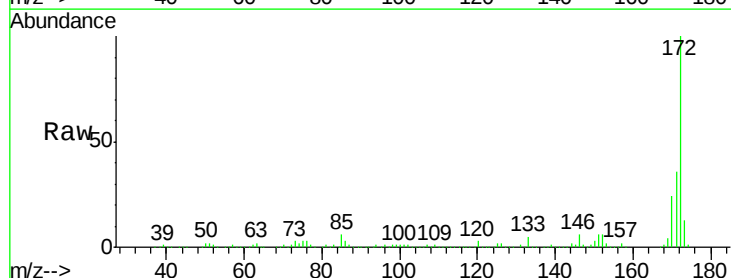
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 87.44 ng  
 RT: 9.19 min Scan# 604  
 Delta R.T. -0.00 min  
 Lab File: BF085790.D  
 Acq: 26 Mar 2016 4:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 855748 |       |       |
| 171     | 35.6  | 29.4   | 44.2  |       |
| 170     | 24.0  | 19.8   | 29.6  |       |

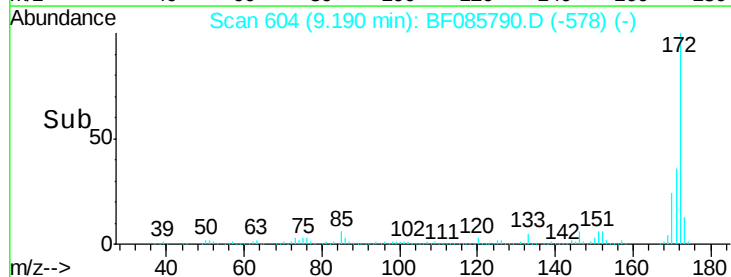
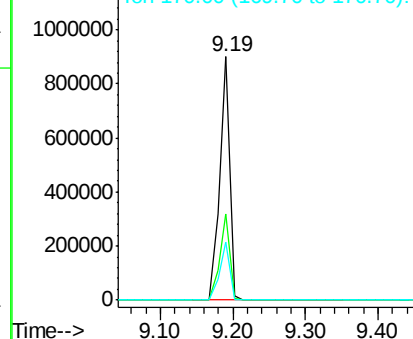


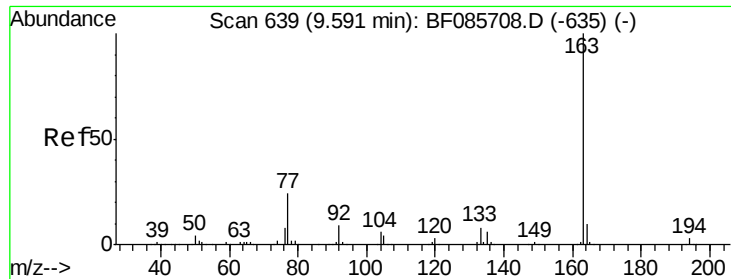
Abundance

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





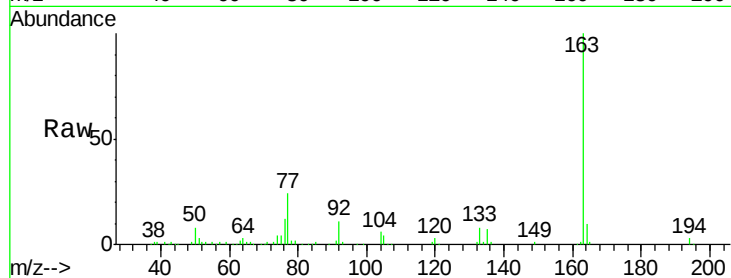
#49  
Dimethylphthalate  
Concen: 10.09 ng  
RT: 9.58 min Scan# 638  
Delta R.T. -0.01 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
S-PG-C(0-6)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 3.1   | 2.9        | 4.3   |
| 164     | 10.2  | 8.3        | 12.5  |

Manual Integrations  
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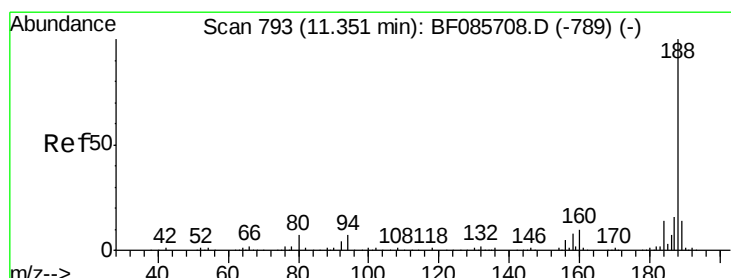
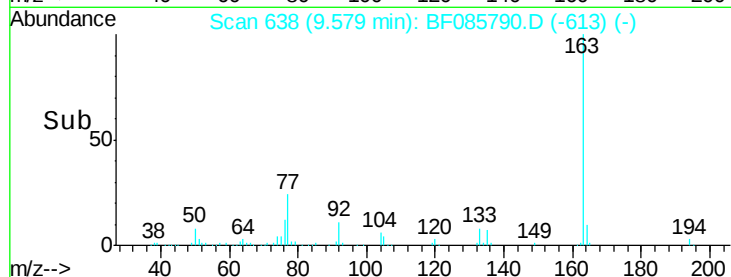
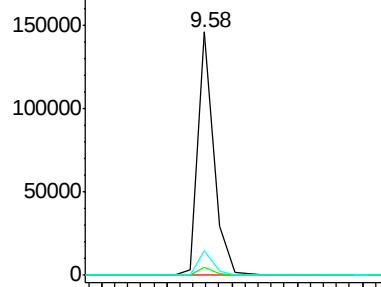


Abundance

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: 11.34 min Scan# 792  
Delta R.T. -0.01 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

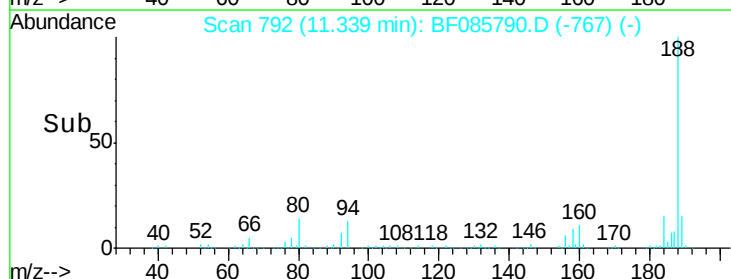
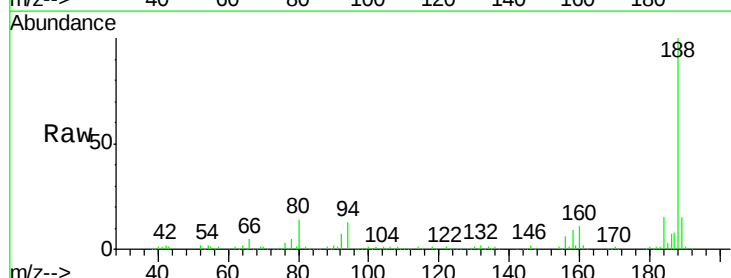
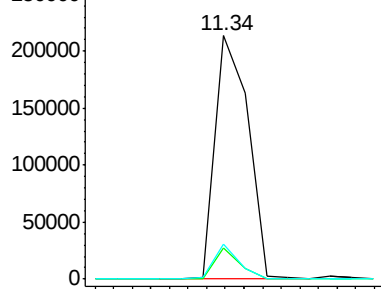
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 13.0  | 5.4        | 8.0#  |
| 80      | 14.5  | 5.5        | 8.3#  |

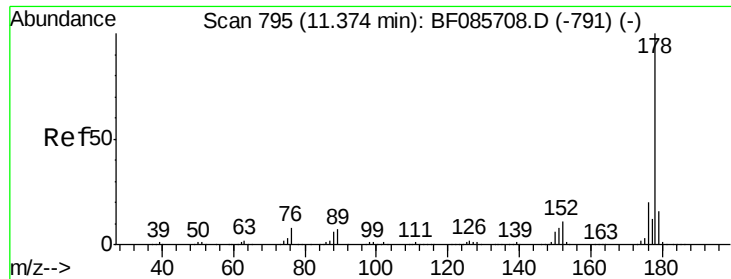
Abundance

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





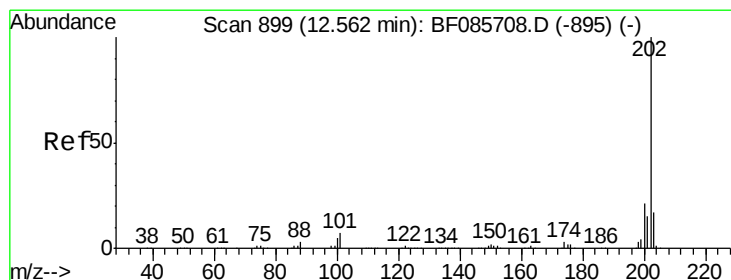
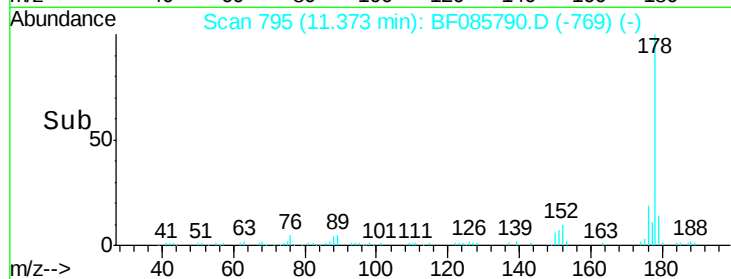
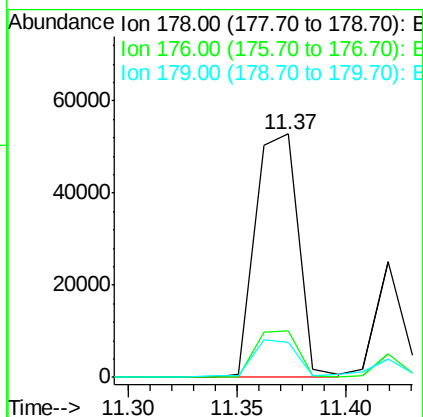
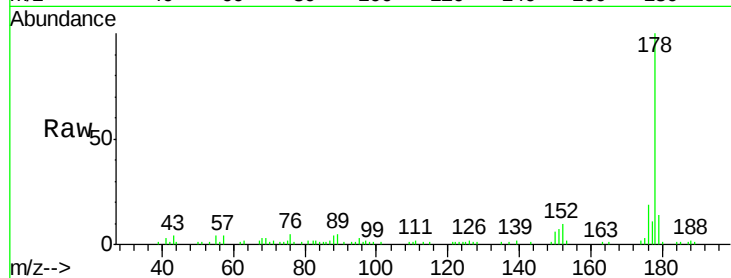
#70  
Phenanthrene  
Concen: 5.38 ng  
RT: 11.37 min Scan# 795  
Delta R.T. -0.00 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
S-PG-C(0-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 16.3  | 24.5  |
| 179     | 14.4  | 12.6  | 18.8  |

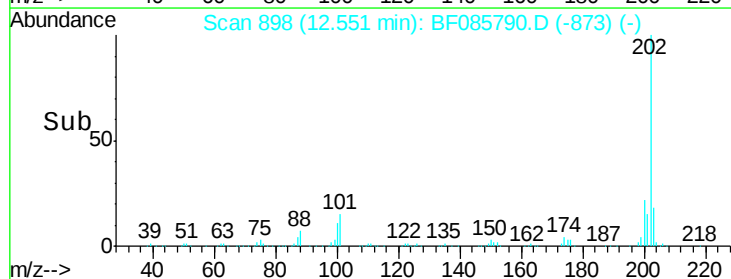
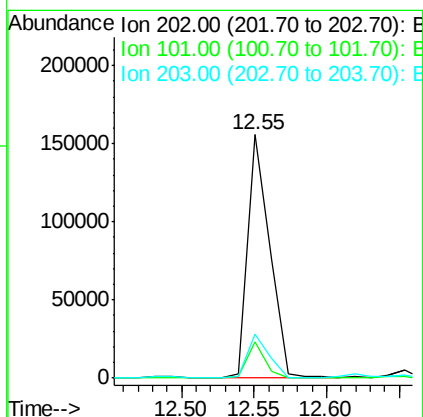
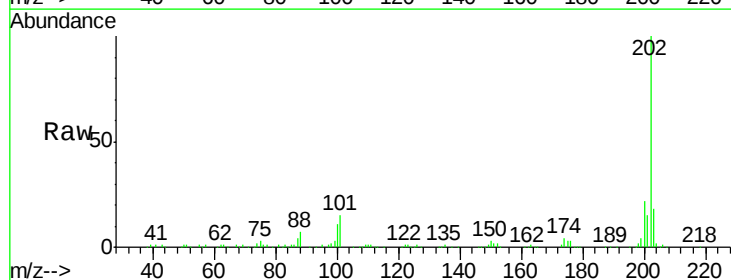
Manual Integrations  
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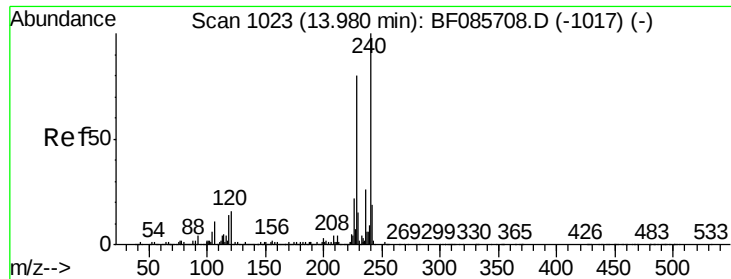
Sohil  
3/28/2016 8:00:11 PM



#74  
Fluoranthene  
Concen: 11.28 ng  
RT: 12.55 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.0  | 0.0   | 36.6  |
| 203     | 17.8  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.98 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

Instrument :

BNA\_F

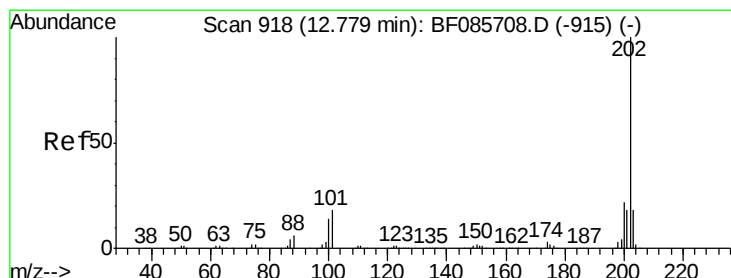
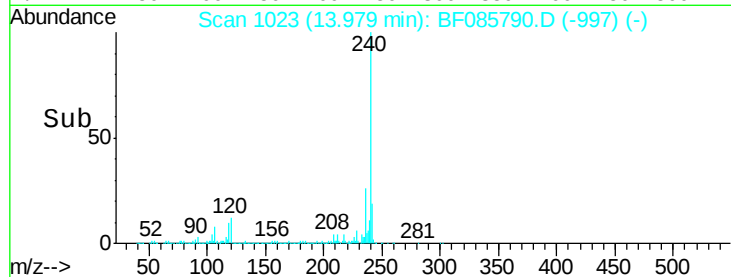
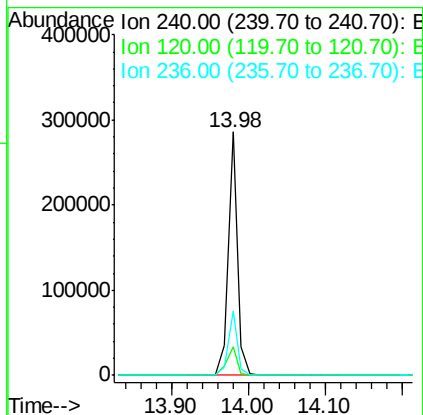
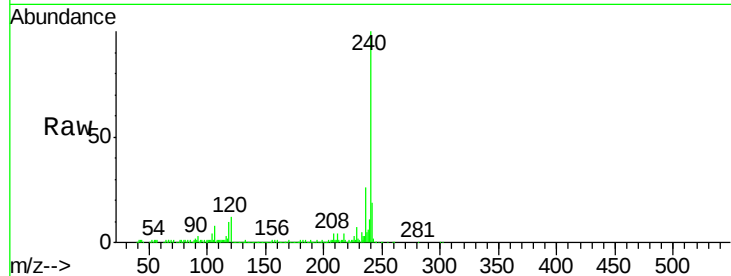
ClientSampleId :

S-PG-C(0-6)

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 240  | Resp: | 248984 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 11.7 | 13.8  | 20.8#  |
| 236       | 26.4 | 20.6  | 30.8   |

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#77

Pyrene

Concen: 7.58 ng

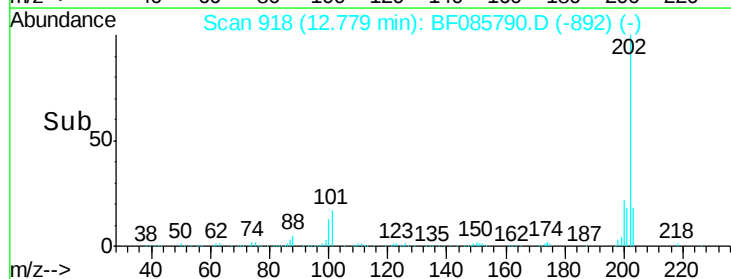
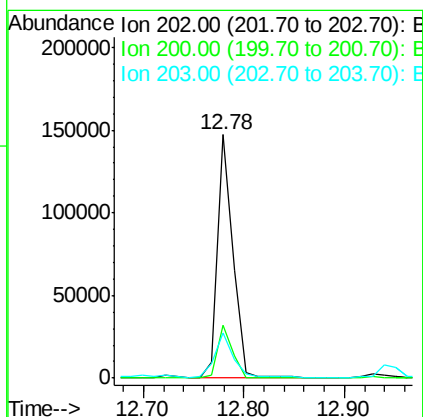
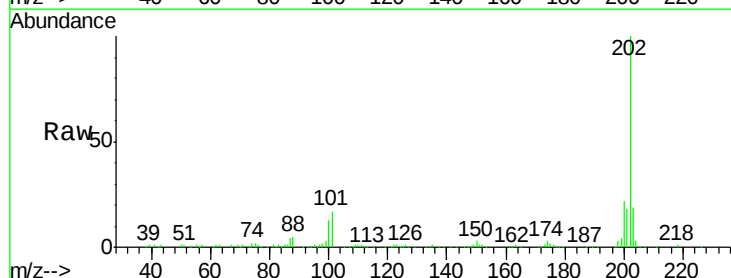
RT: 12.78 min Scan# 918

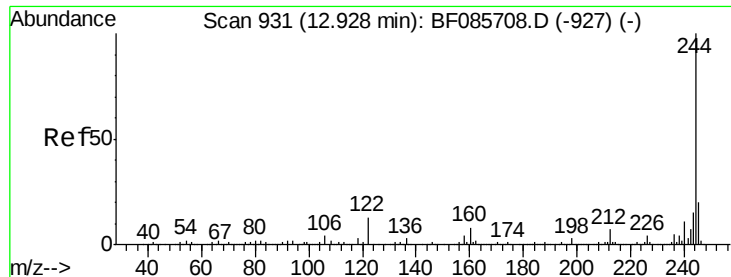
Delta R.T. -0.00 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 202  | Resp: | 155039 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 21.5 | 17.6  | 26.4   |
| 203       | 18.7 | 14.0  | 21.0   |





#78

Terphenyl-d14

Concen: 43.35 ng

RT: 12.93 min Scan# 931

Delta R.T. -0.00 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

Instrument :

BNA\_F

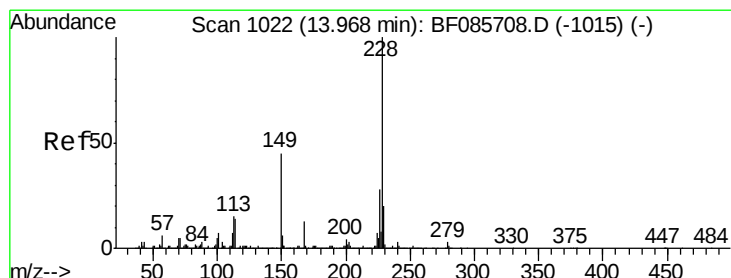
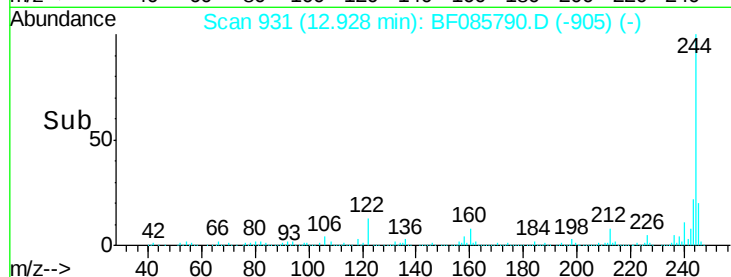
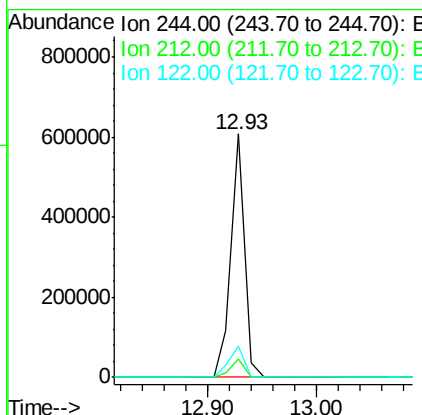
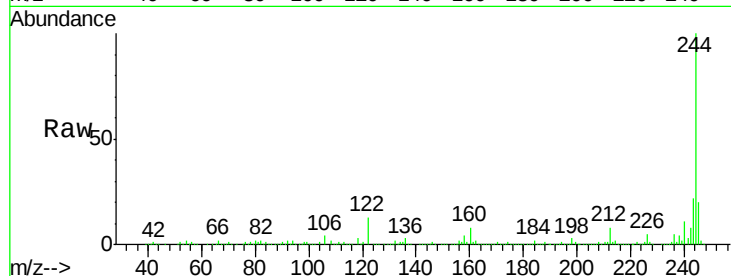
ClientSampleId :

S-PG-C(0-6)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 524803 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.5   | 6.1   | 9.1    |
| 122       | 12.6  | 10.2  | 15.4   |

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#80

Benzo(a)anthracene

Concen: 5.28 ng

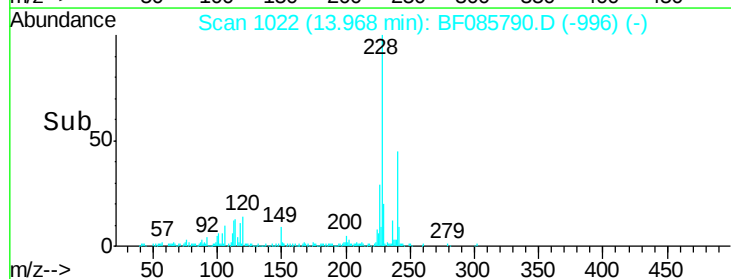
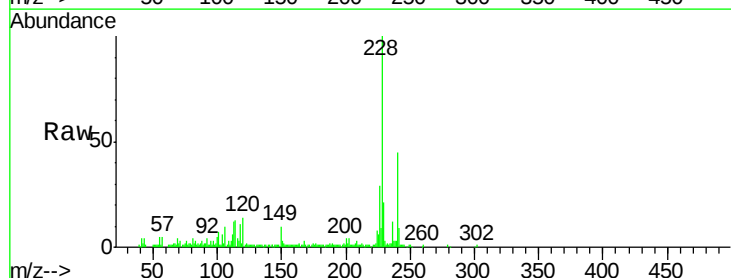
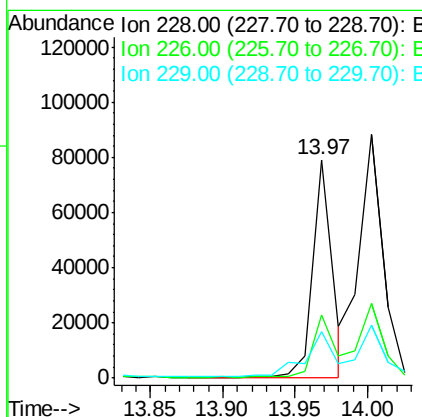
RT: 13.97 min Scan# 1022

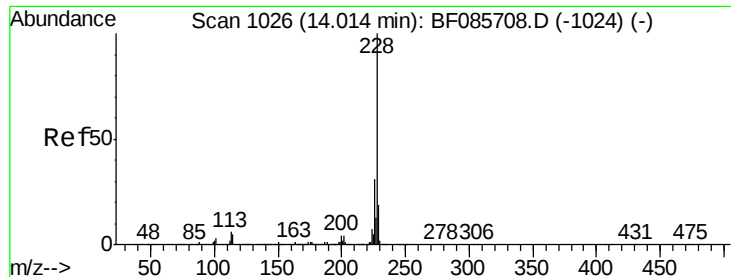
Delta R.T. -0.00 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 75028 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.1  | 22.1  | 33.1  |
| 229       | 21.1  | 16.2  | 24.4  |





#82

Chrysene

Concen: 7.09 ng/mL

RT: 14.00 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

Instrument :

BNA\_F

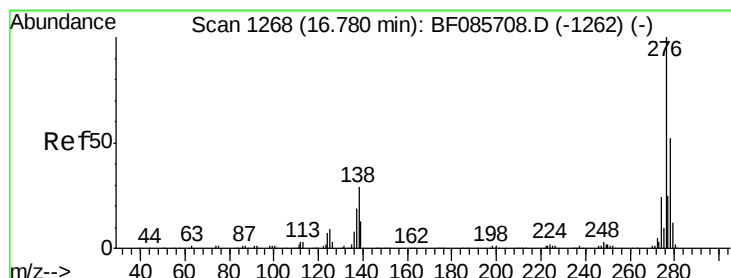
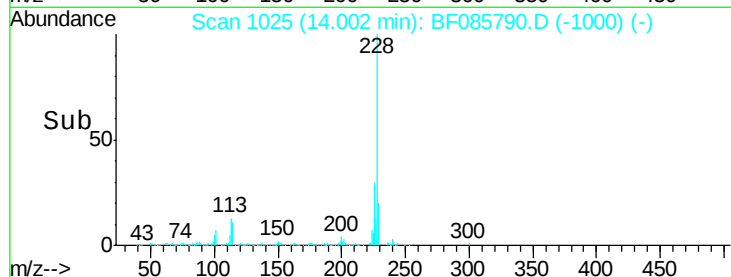
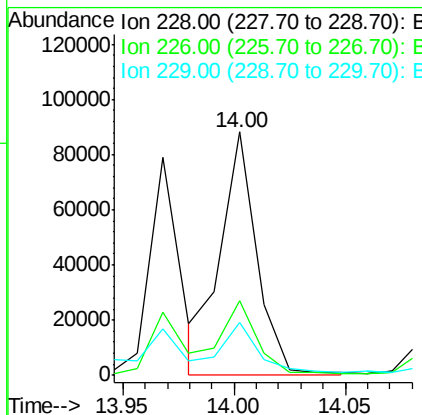
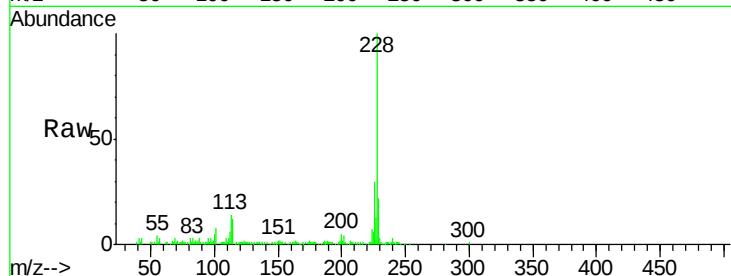
ClientSampleId :

S-PG-C(0-6)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 101353 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.5  | 25.0  | 37.6   |
| 229       | 21.6  | 15.7  | 23.5   |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 4.52 ng/mL

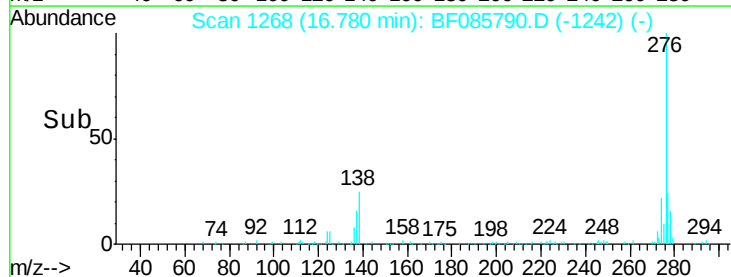
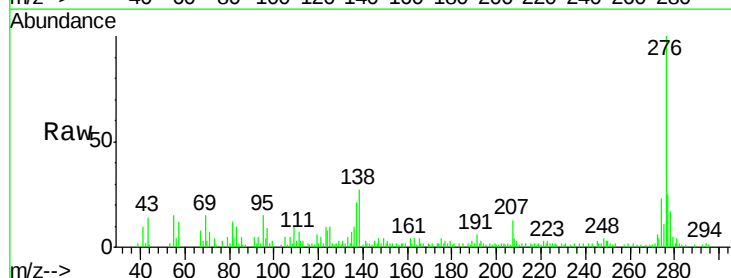
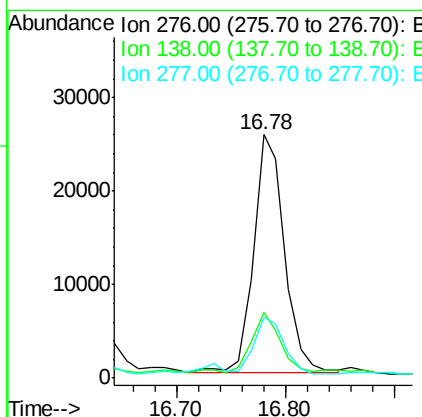
RT: 16.78 min Scan# 1268

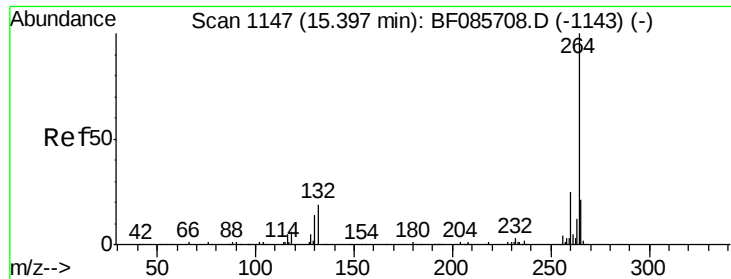
Delta R.T. -0.00 min

Lab File: BF085790.D

Acq: 26 Mar 2016 4:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 49894 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.3  | 24.2  | 36.4  |
| 277       | 22.8  | 20.0  | 30.0  |





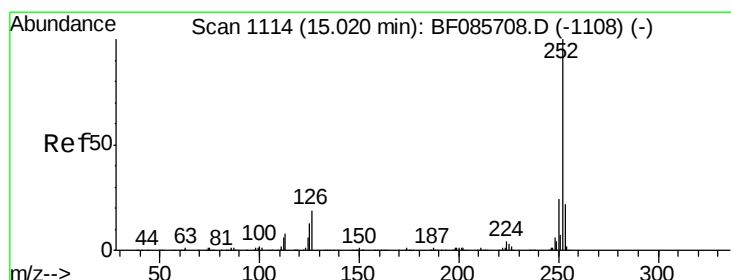
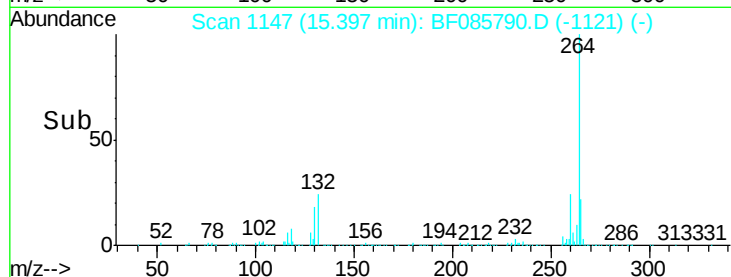
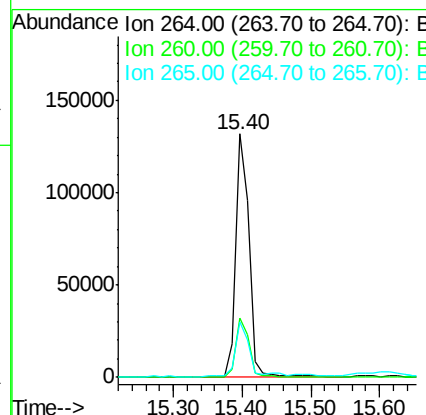
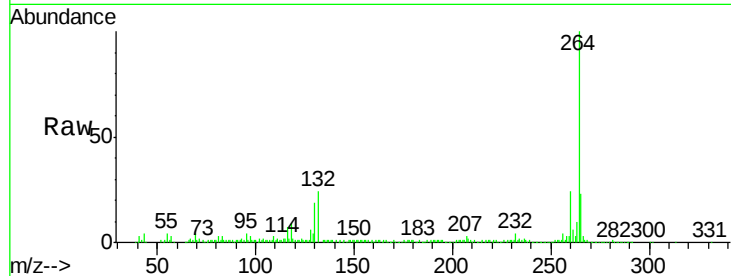
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.40 min Scan# 1147  
Delta R.T. -0.00 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
S-PG-C(0-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.4  | 29.2  |
| 265     | 22.9  | 17.2  | 25.8  |

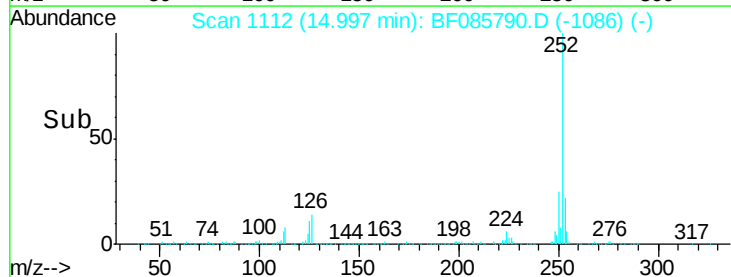
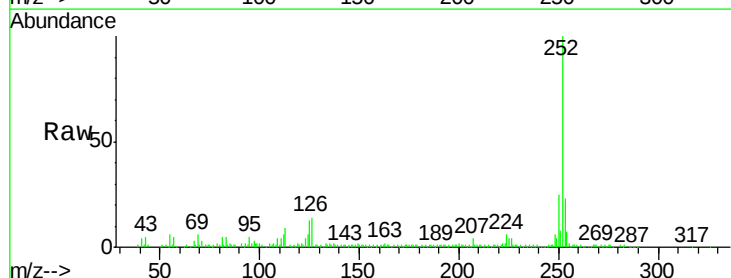
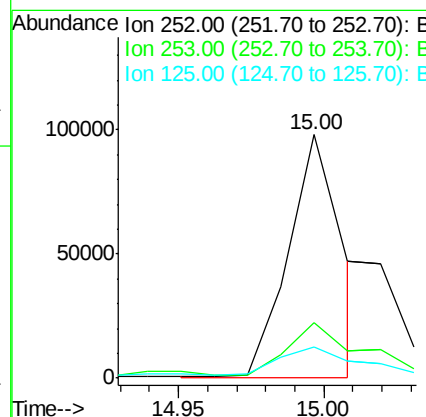
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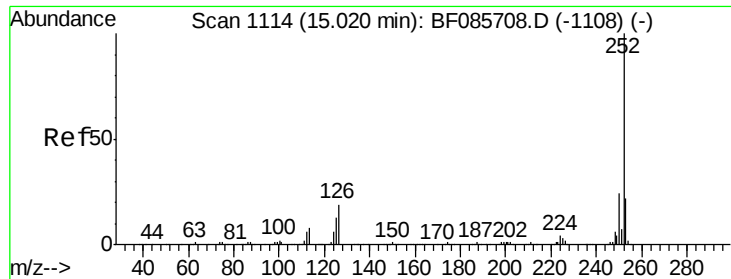
Sohil  
3/28/2016 8:00:11 PM



#87  
Benzo(b)fluoranthene  
Concen: 10.98 ng m  
RT: 15.00 min Scan# 1112  
Delta R.T. -0.00 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.6  | 26.4  |
| 125     | 12.6  | 10.3  | 15.5  |





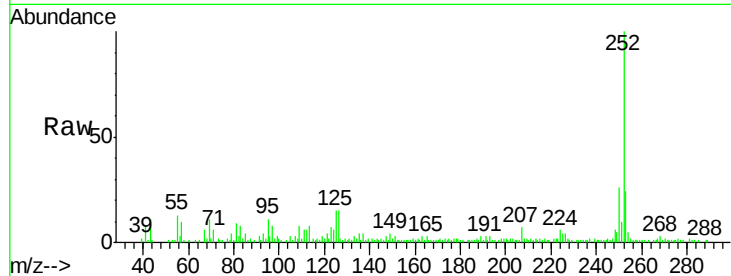
#88  
Benzo(k)fluoranthene  
Concen: 4.14 ng m  
RT: 15.01 min Scan# 1113  
Delta R.T. -0.01 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
S-PG-C(0-6)

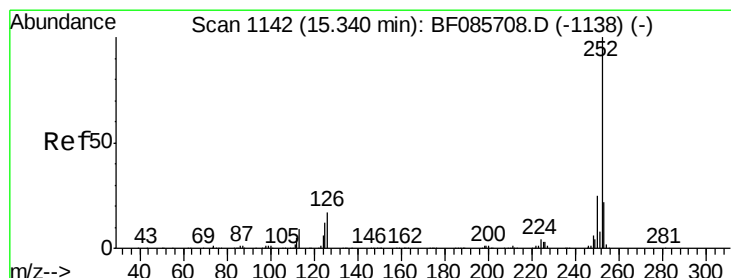
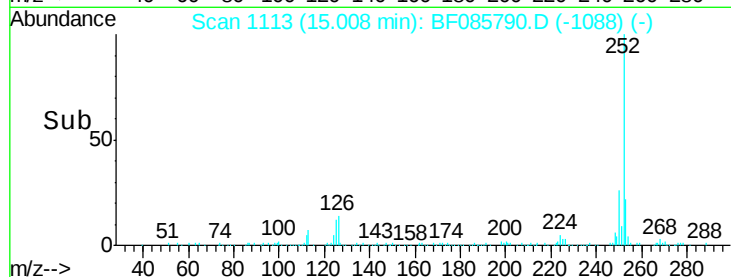
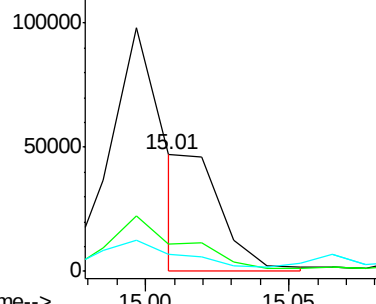
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.8  | 26.6  |
| 125     | 14.6  | 7.7   | 11.5  |

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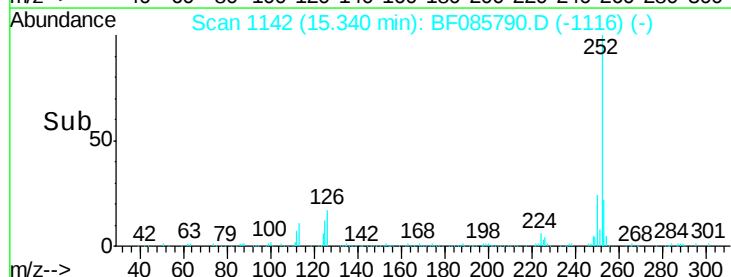
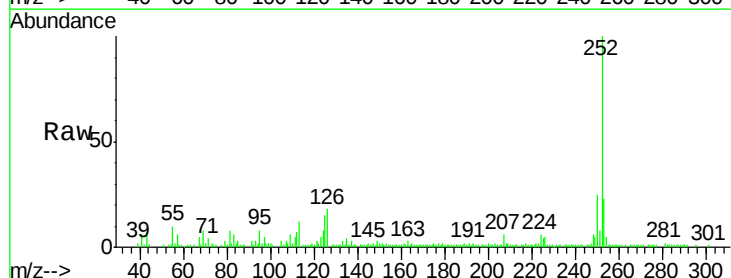
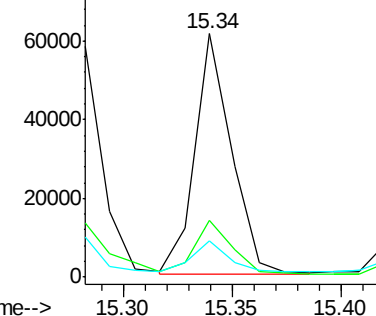
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

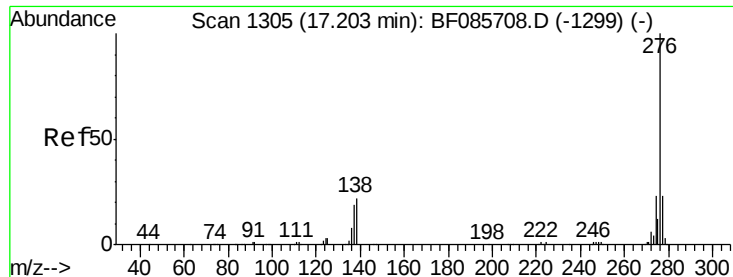


#89  
Benzo(a)pyrene  
Concen: 7.07 ng  
RT: 15.34 min Scan# 1142  
Delta R.T. -0.00 min  
Lab File: BF085790.D  
Acq: 26 Mar 2016 4:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.4  | 26.0  |
| 125     | 14.7  | 10.3  | 15.5  |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#91  
 Benzo(a,h,i)perylene  
 Concen: 5.90 ng  
 RT: 17.20 min Scan# 1305  
 Delta R.T. -0.00 min  
 Lab File: BF085790.D  
 Acq: 26 Mar 2016 4:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-PG-C(0-6)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 56479 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 23.5  | 18.8  | 28.2  |
| 138       | 25.9  | 22.6  | 34.0  |

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 3/28/2016 8:00:11 PM

