

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\  
 Data File : BF087764.D  
 Acq On : 6 Jun 2016 21:20  
 Operator : UM/SJ  
 Sample : H3354-01  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-27-20160531

Manual Integrations  
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 6/7/2016 7:22:32 PM

Quant Time: Jun 07 02:05:22 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 04 11:07:28 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 125650   | 20.00 | ng    | -0.01     |
| 21) Naphthalene-d8             | 8.14  | 136  | 512247   | 20.00 | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.88  | 164  | 188959   | 20.00 | ng    | -0.02     |
| 63) Phenanthrene-d10           | 11.37 | 188  | 316755   | 20.00 | ng    | -0.01     |
| 75) Chrysene-d12               | 14.00 | 240  | 247939   | 20.00 | ng    | -0.02     |
| 86) Perylene-d12               | 15.43 | 264  | 197968   | 20.00 | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 5) 2-Fluorophenol              | 5.45  | 112  | 641082   | 82.47 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.48  | 99   | 783694   | 80.39 | ng    | -0.01     |
| 23) Nitrobenzene-d5            | 7.42  | 82   | 468966   | 52.97 | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 131356   | 69.25 | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 9.21  | 172  | 700428   | 50.29 | ng    | -0.02     |
| 78) Terphenyl-d14              | 12.96 | 244  | 529117   | 52.07 | ng    | -0.01     |
| Target Compounds               |       |      |          |       |       |           |
| 48) Acenaphthylene             | 9.75  | 152  | 59464    | 3.12  | ng    | Qvalue 98 |
| 49) Dimethylphthalate          | 9.61  | 163  | 175481   | 12.77 | ng    | 99        |
| 70) Phenanthrene               | 11.39 | 178  | 312134   | 18.17 | ng    | 98        |
| 71) Anthracene                 | 11.44 | 178  | 83797    | 4.87  | ng    | 98        |
| 72) Carbazole                  | 11.60 | 167  | 40551    | 2.49  | ng    | 98        |
| 74) Fluoranthene               | 12.58 | 202  | 494615   | 29.27 | ng    | 95        |
| 77) Pyrene                     | 12.81 | 202  | 482775   | 27.34 | ng    | 99        |
| 80) Benzo(a)anthracene         | 13.99 | 228  | 246108   | 17.20 | ng    | 94        |
| 82) Chrysene                   | 14.02 | 228  | 185885   | 13.05 | ng    | 96        |
| 83) Bis(2-ethylhexyl)phthalate | 13.99 | 149  | 23296    | 2.61  | ng    | 98        |
| 85) Indeno(1,2,3-cd)pyrene     | 16.81 | 276  | 113422   | 9.63  | ng    | # 100     |
| 87) Benzo(b)fluoranthene       | 15.02 | 252  | 202228m  | 15.70 | ng    |           |
| 88) Benzo(k)fluoranthene       | 15.03 | 252  | 100153m  | 9.35  | ng    |           |
| 89) Benzo(a)pyrene             | 15.37 | 252  | 161619m  | 14.93 | ng    |           |
| 90) Dibenzo(a,h)anthracene     | 16.82 | 278  | 25748    | 2.79  | ng    | # 86      |
| 91) Benzo(g,h,i)perylene       | 17.23 | 276  | 119063   | 12.81 | ng    | 97        |

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

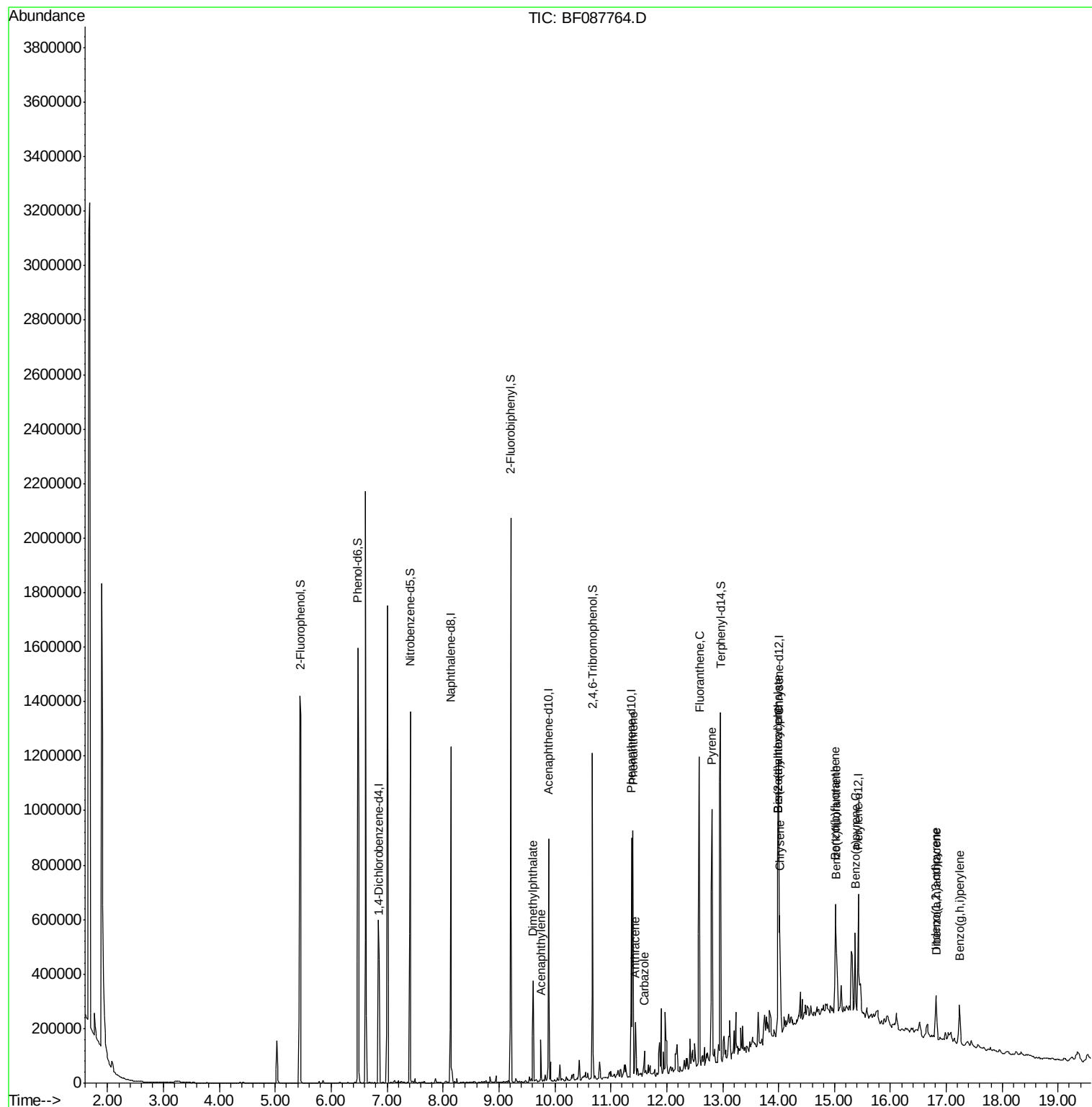
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\  
Data File : BF087764.D  
Acq On : 6 Jun 2016 21:20  
Operator : UM/SJ  
Sample : H3354-01  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

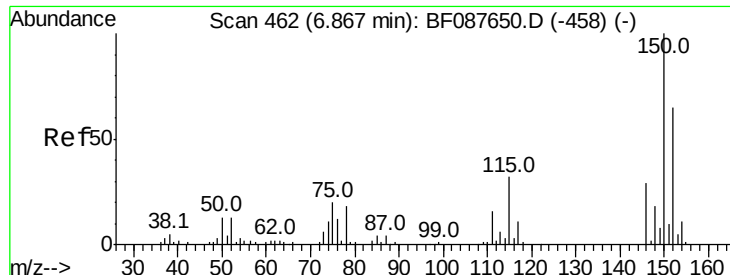
Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-27-20160531

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6/7/2016 7:22:32 PM

Quant Time: Jun 07 02:05:22 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jun 04 11:07:28 2016  
Response via : Initial Calibration





#1

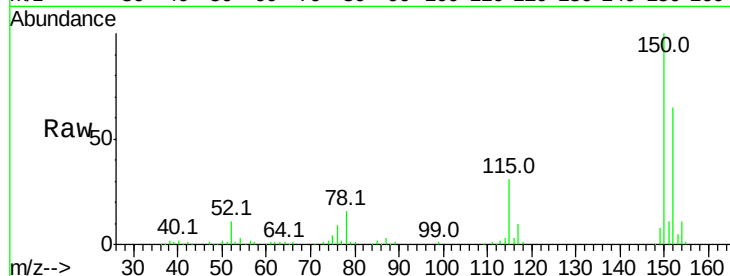
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.86 min Scan# 461  
Delta R.T. -0.01 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-27-20160531

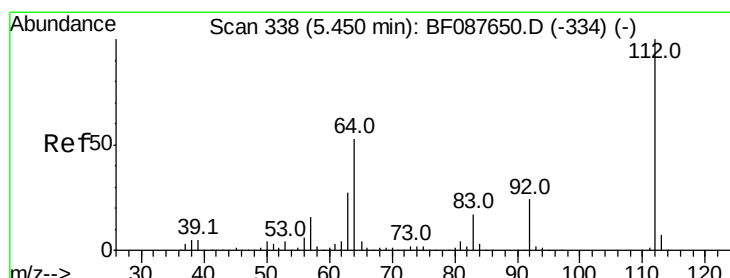
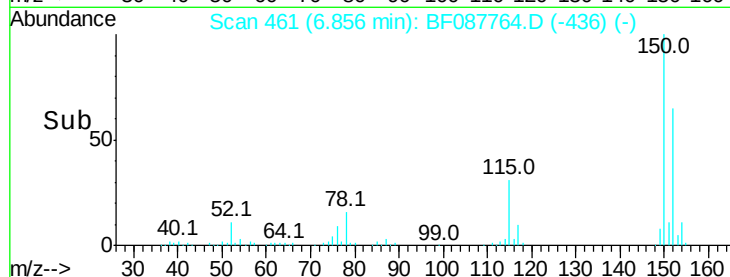
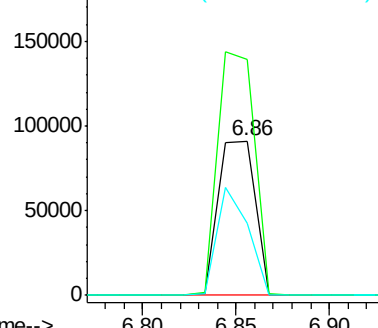
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   |       |       |       |
| 150     | 152.7 | 123.8 | 185.6 |       |
| 115     | 46.9  | 39.6  | 59.4  |       |

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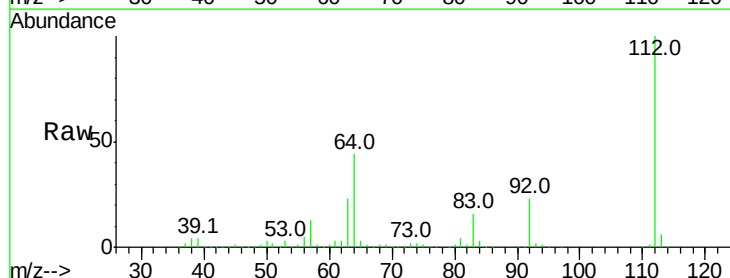
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



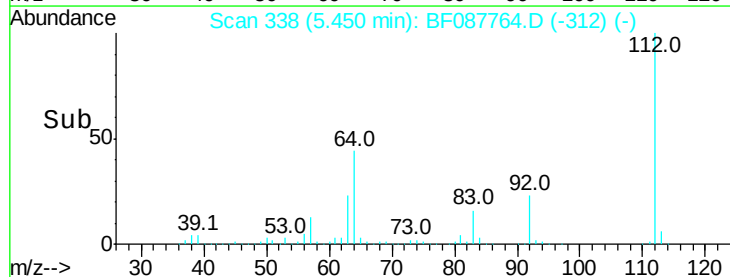
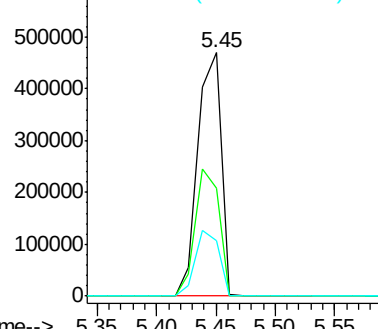
#5

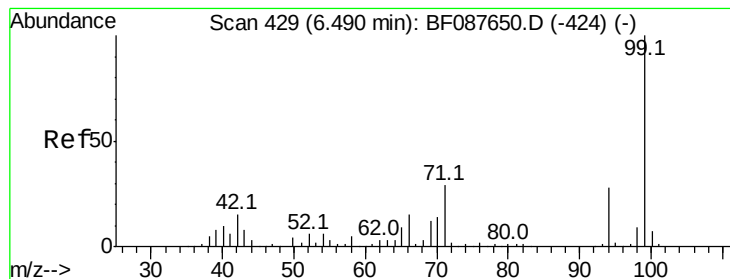
2-Fluorophenol  
Concen: 82.47 ng  
RT: 5.45 min Scan# 338  
Delta R.T. 0.00 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 112     | 100   |      |       |       |
| 64      | 44.3  | 42.2 | 63.2  |       |
| 63      | 22.8  | 21.8 | 32.8  |       |



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: 80.39 ng

RT: 6.48 min Scan# 428

Delta R.T. -0.01 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

Instrument :

BNA\_F

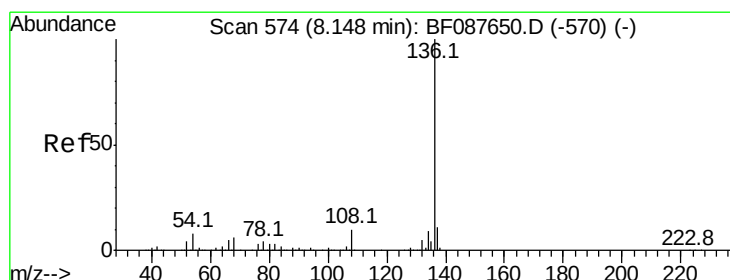
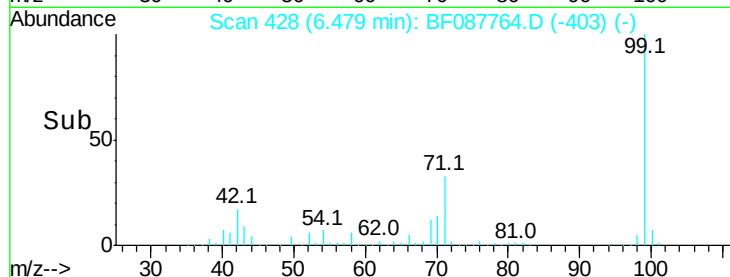
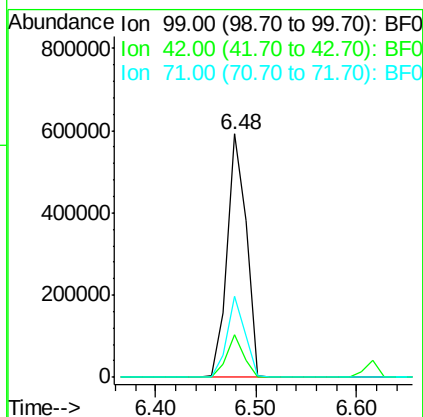
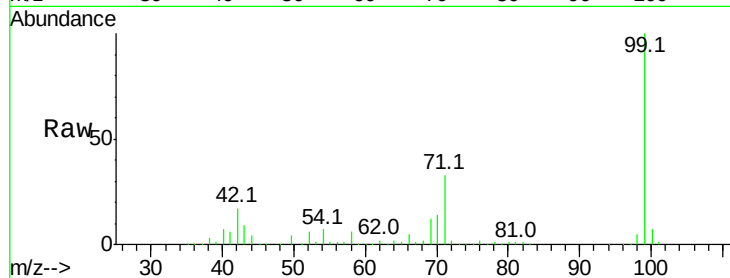
ClientSampleId :

POST-EX-27-20160531

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 783694 |       |       |
| 42      | 17.3 | 12.2  | 18.2   |       |       |
| 71      | 33.5 | 23.4  | 35.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

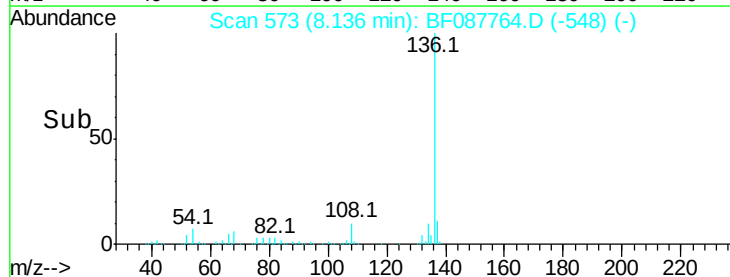
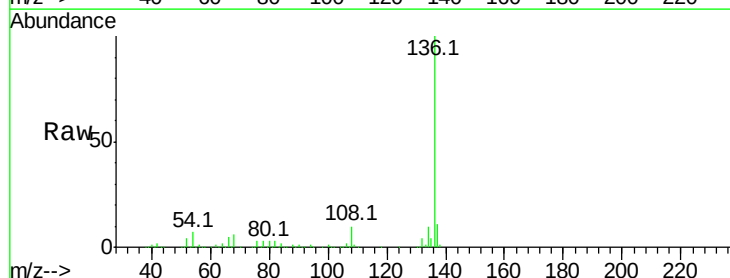
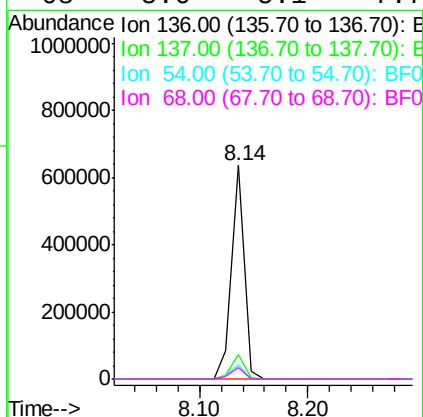
RT: 8.14 min Scan# 573

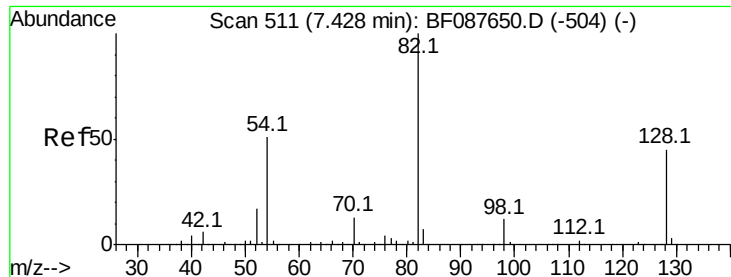
Delta R.T. -0.01 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 512247 |       |       |
| 137     | 11.2 | 9.1   | 13.7   |       |       |
| 54      | 6.9  | 6.6   | 10.0   |       |       |
| 68      | 5.6  | 5.1   | 7.7    |       |       |





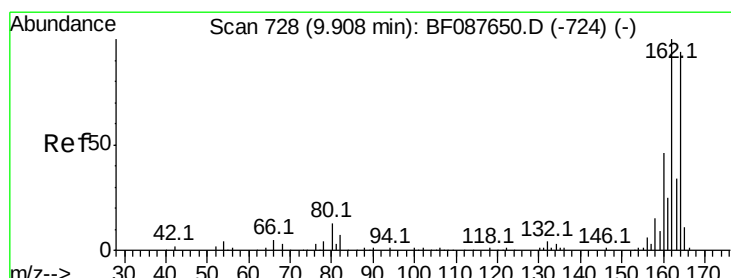
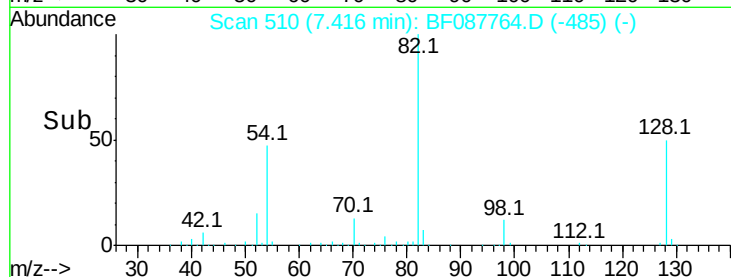
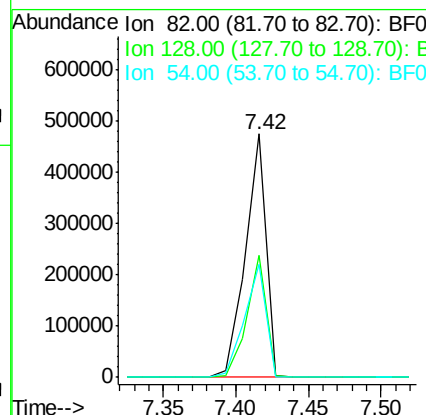
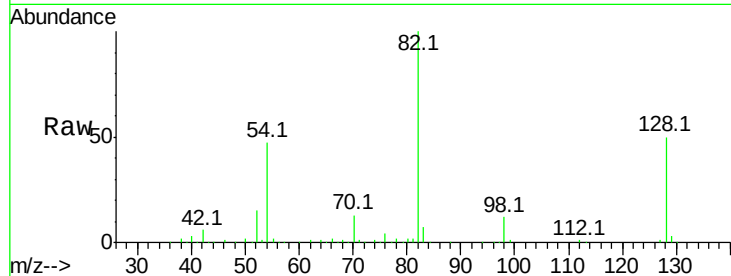
#23  
Nitrobenzene-d5  
Concen: 52.97 ng  
RT: 7.42 min Scan# 510  
Delta R.T. -0.01 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-27-20160531

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 50.4  | 35.9  | 53.9  |
| 54      | 46.6  | 40.9  | 61.3  |

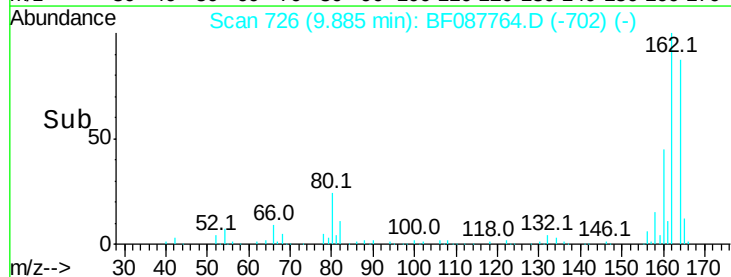
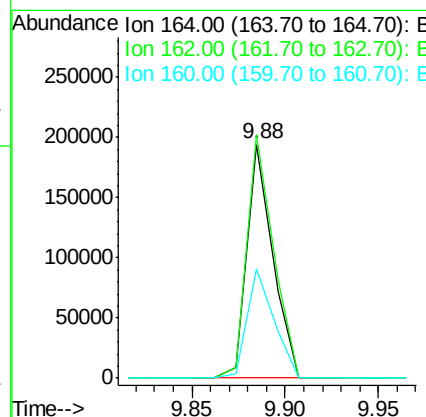
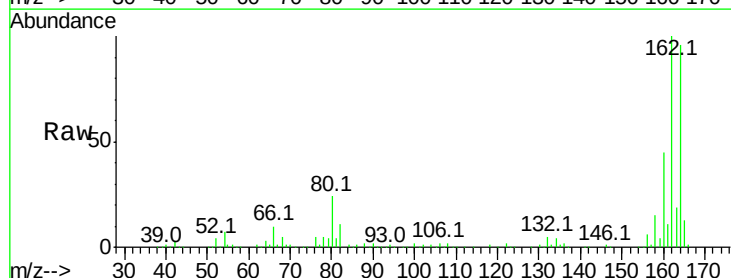
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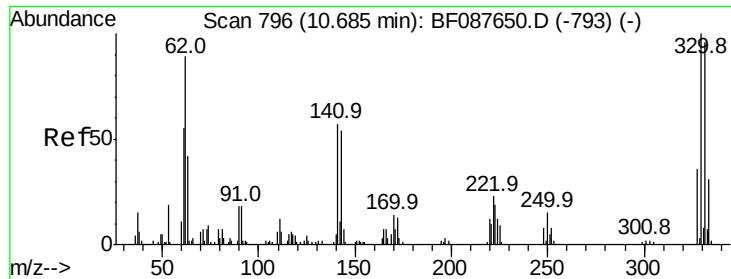
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.88 min Scan# 726  
Delta R.T. -0.02 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.0 | 85.4  | 128.2 |
| 160     | 46.4  | 39.5  | 59.3  |





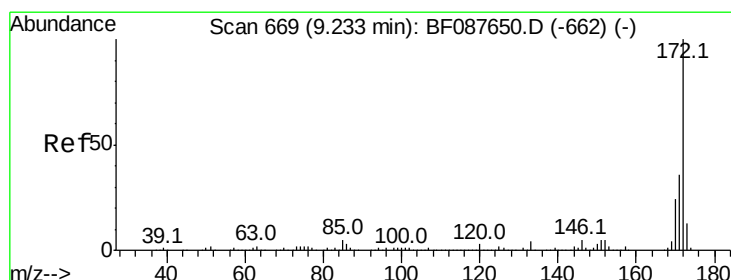
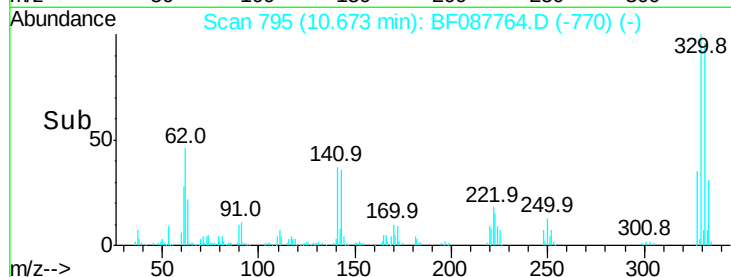
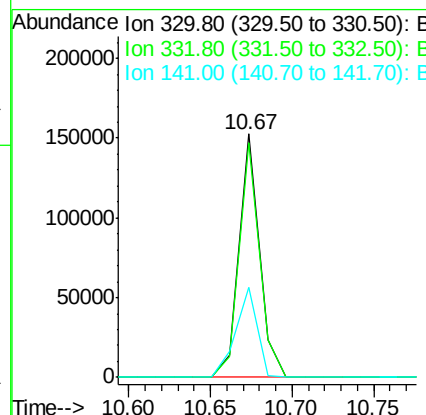
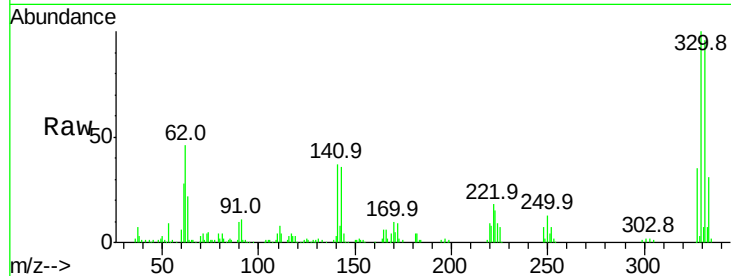
#41  
 2,4,6-Tribromophenol  
 Concen: 69.25 ng  
 RT: 10.67 min Scan# 795  
 Delta R.T. -0.01 min  
 Lab File: BF087764.D  
 Acq: 6 Jun 2016 21:20

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-27-20160531

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 330     | 100   |            |       |
| 332     | 96.4  | 0.0        | 0.0#  |
| 141     | 39.8  | 0.0        | 0.0#  |

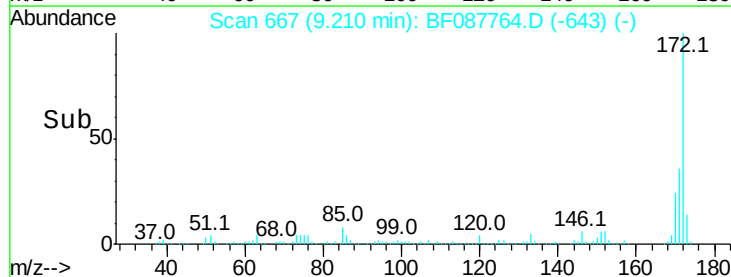
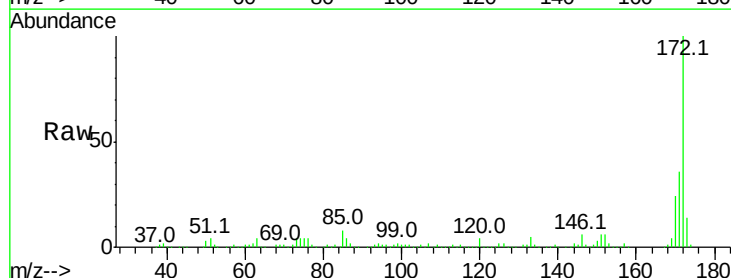
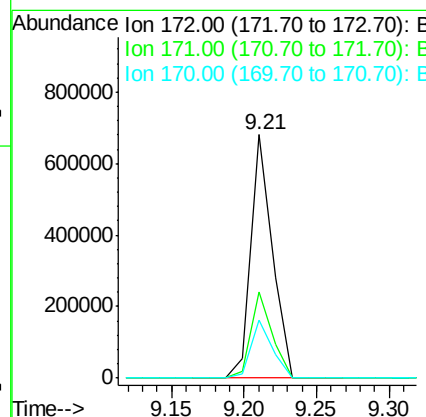
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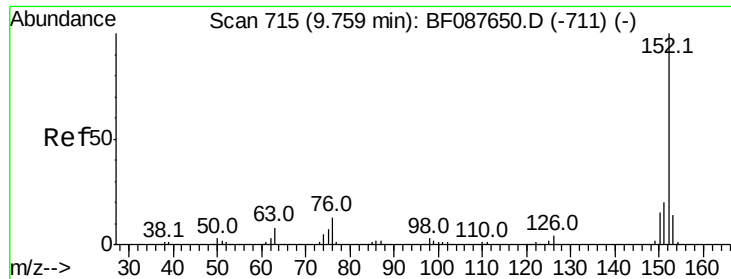
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#44  
 2-Fluorobiphenyl  
 Concen: 50.29 ng  
 RT: 9.21 min Scan# 667  
 Delta R.T. -0.02 min  
 Lab File: BF087764.D  
 Acq: 6 Jun 2016 21:20

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.6  | 28.6       | 43.0  |
| 170     | 23.9  | 19.2       | 28.8  |





#48

Acenaphthylene

Concen: 3.12 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.01 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

Instrument :

BNA\_F

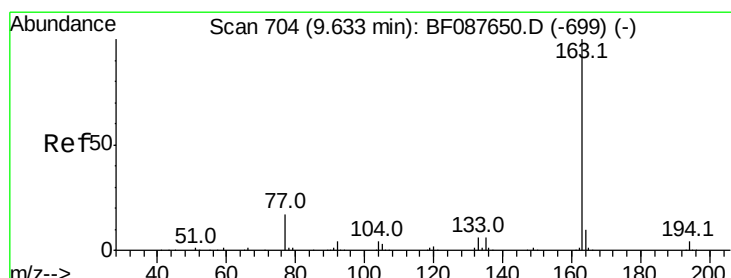
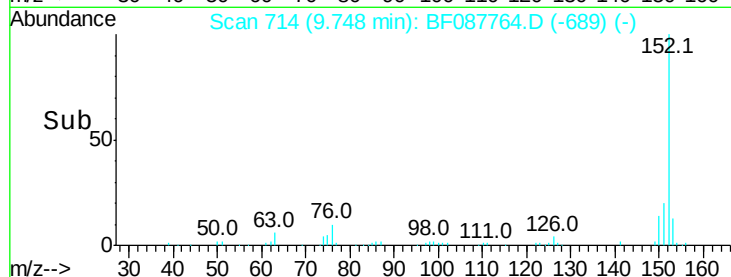
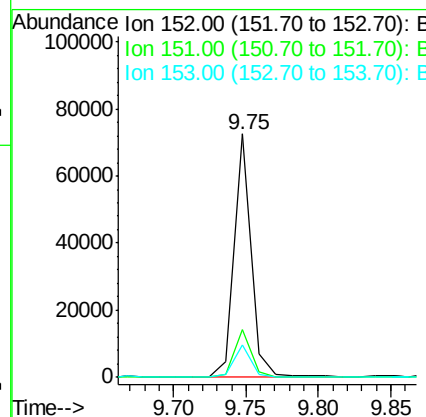
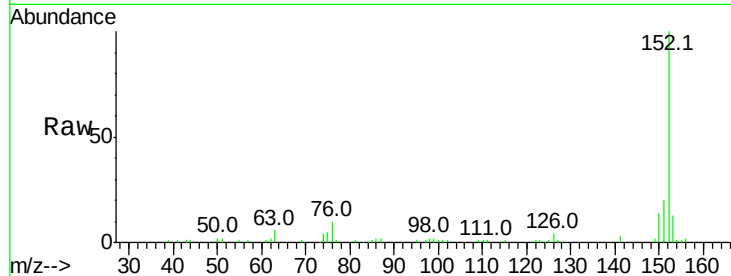
ClientSampleId :

POST-EX-27-20160531

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 59464 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.6  | 16.2  | 24.4  |
| 153       | 13.1  | 11.0  | 16.6  |

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#49

Dimethylphthalate

Concen: 12.77 ng

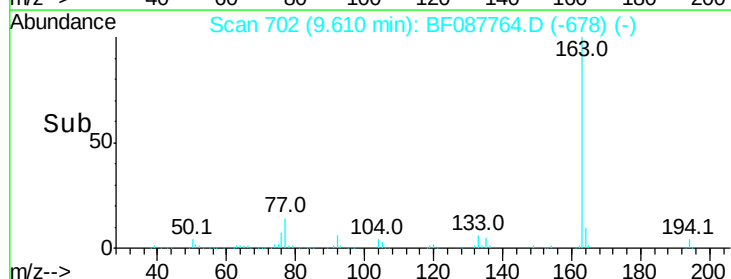
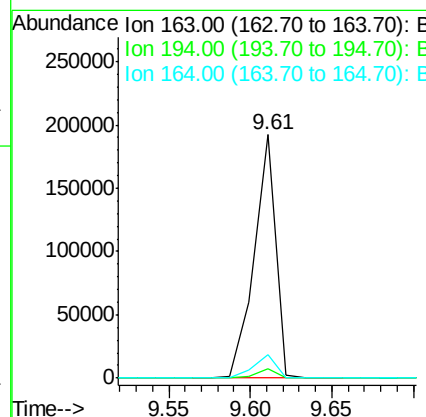
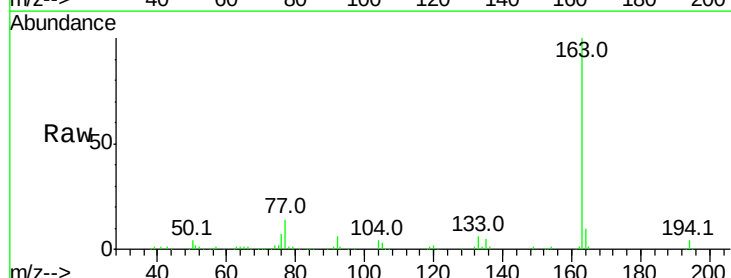
RT: 9.61 min Scan# 702

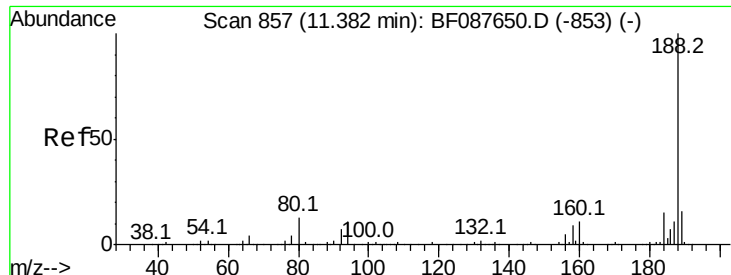
Delta R.T. -0.02 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 175481 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.7   | 2.8   | 4.2    |
| 164       | 9.8   | 8.3   | 12.5   |





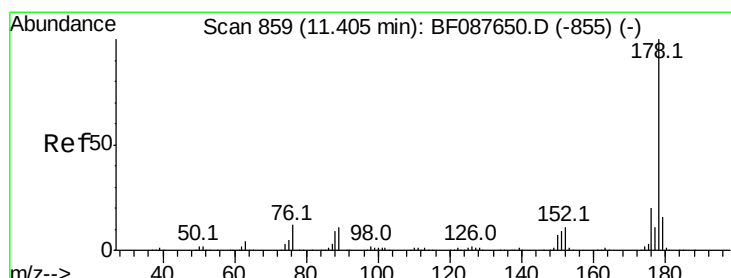
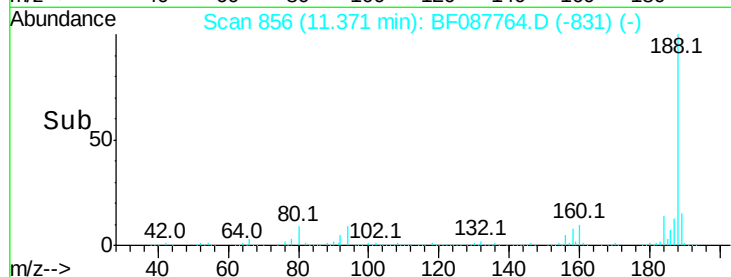
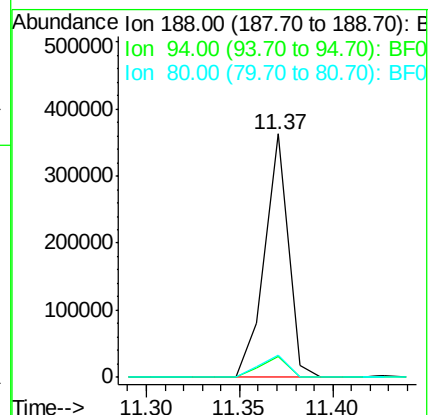
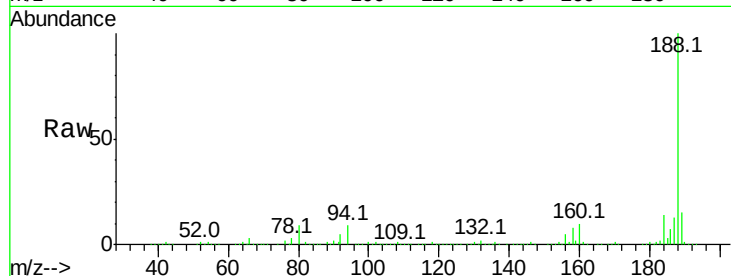
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 856  
Delta R.T. -0.01 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-27-20160531

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.6   | 9.0        | 13.6# |
| 80      | 9.1   | 10.0       | 15.0# |

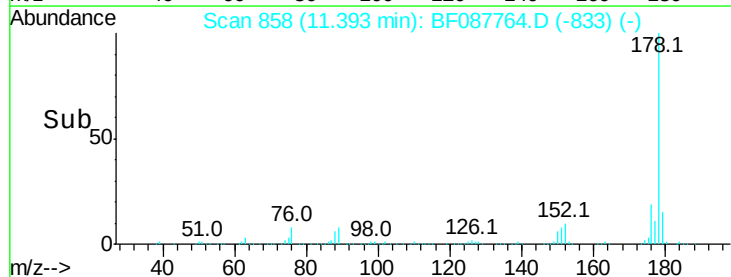
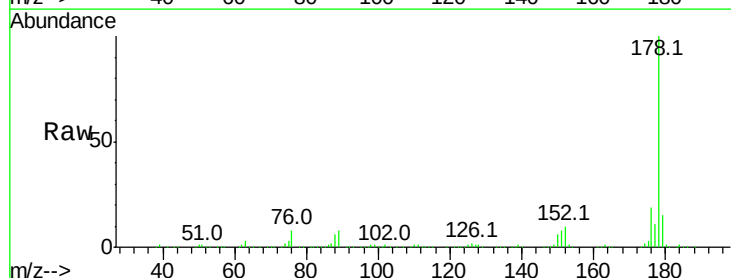
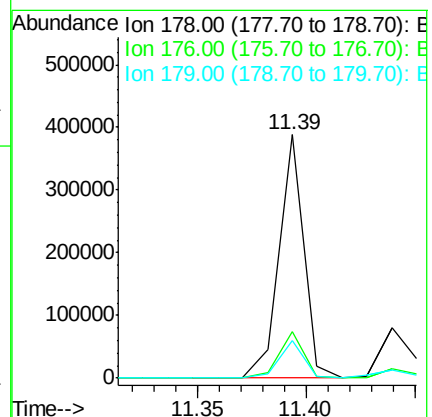
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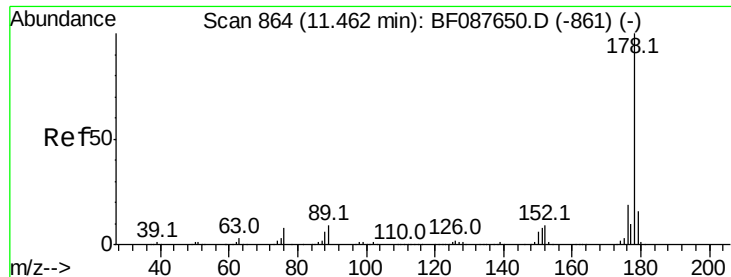


#70  
Phenanthrene  
Concen: 18.17 ng  
RT: 11.39 min Scan# 858  
Delta R.T. -0.01 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.0  | 15.8       | 23.6  |
| 179     | 15.5  | 13.0       | 19.4  |







#71

Anthracene

Concen: 4.87 ng

RT: 11.44 min Scan# 862

Delta R.T. -0.02 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

Instrument :

BNA\_F

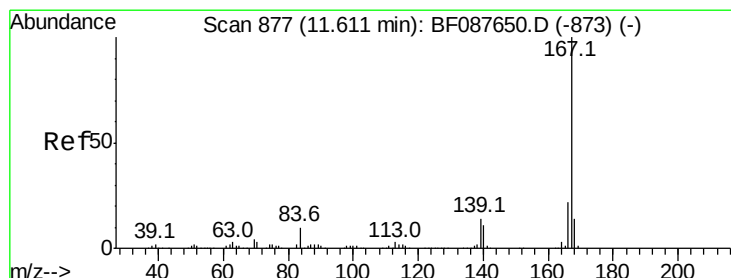
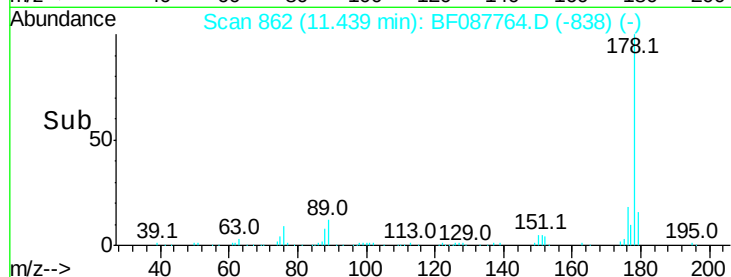
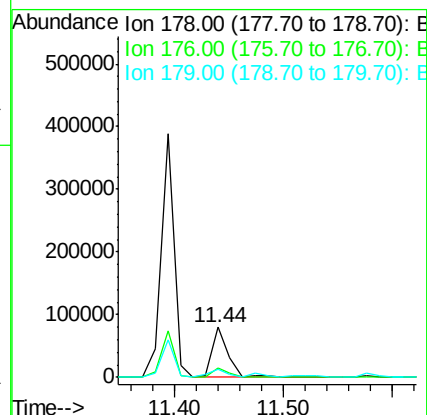
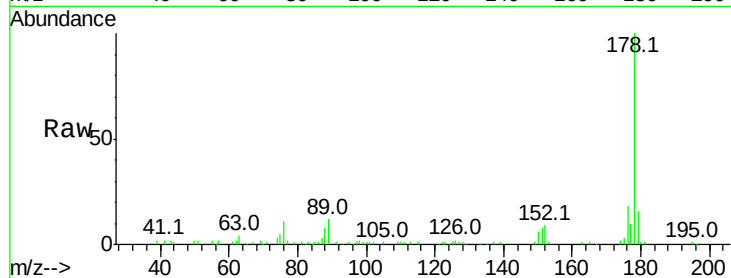
ClientSampleId :

POST-EX-27-20160531

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 83797 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.1  | 15.6  | 23.4  |
| 179       | 15.9  | 12.8  | 19.2  |

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#72

Carbazole

Concen: 2.49 ng

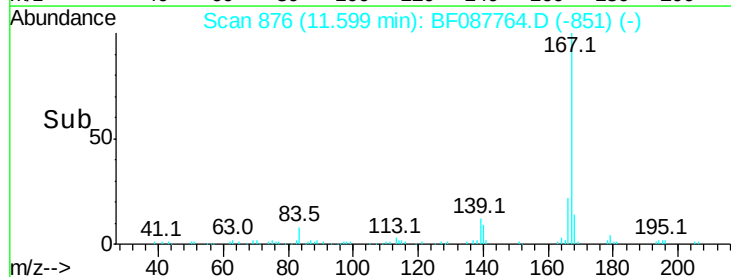
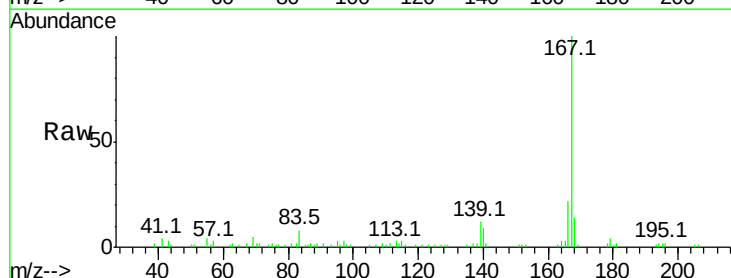
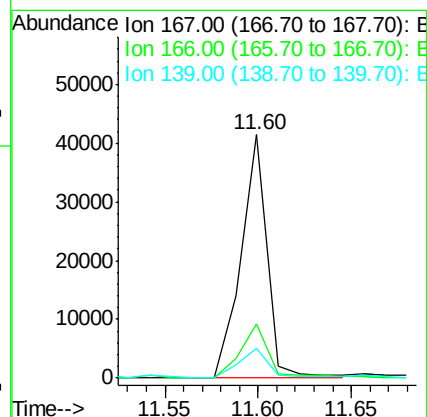
RT: 11.60 min Scan# 876

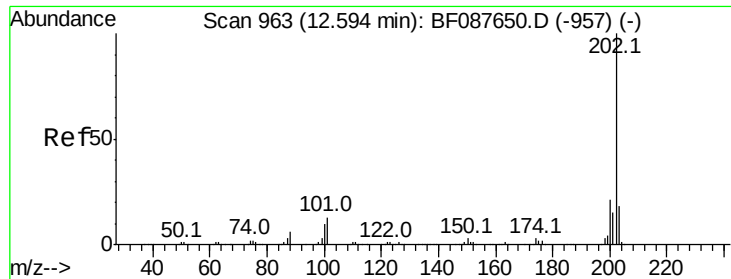
Delta R.T. -0.01 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 40551 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.3  | 17.8  | 26.6  |
| 139       | 12.5  | 11.2  | 16.8  |





#74

Fluoranthene

Concen: 29.27 ng

RT: 12.58 min Scan# 962

Delta R.T. -0.01 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

Instrument :

BNA\_F

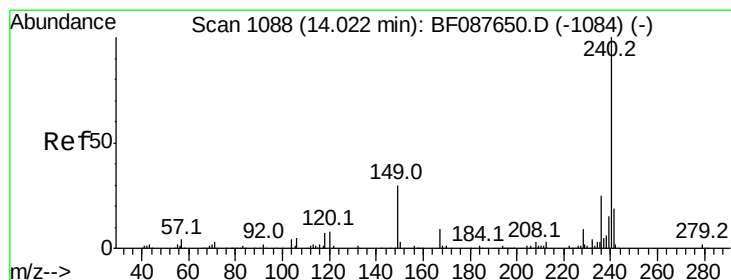
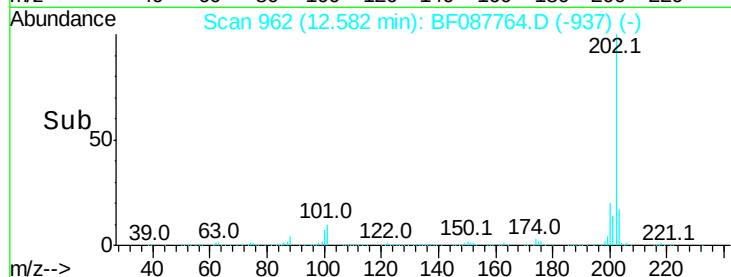
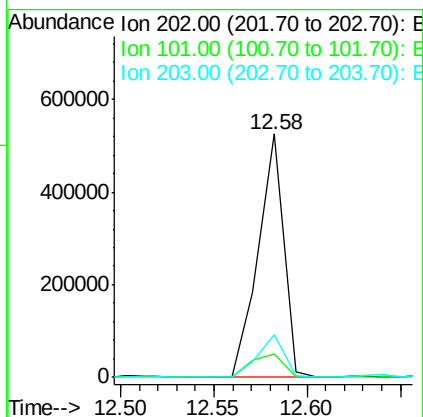
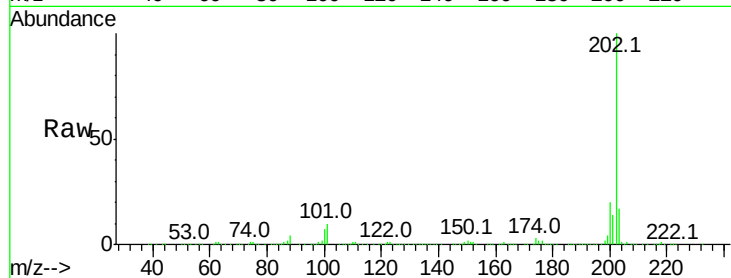
ClientSampleId :

POST-EX-27-20160531

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 494615 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 9.5  | 0.0   | 33.1   |
| 203       | 17.4 | 0.0   | 38.1   |

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#75

Chrysene-d12

Concen: 20.00 ng

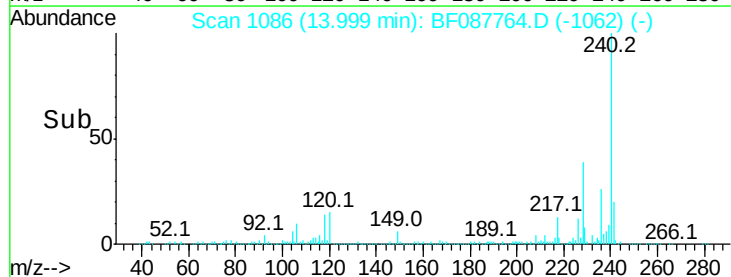
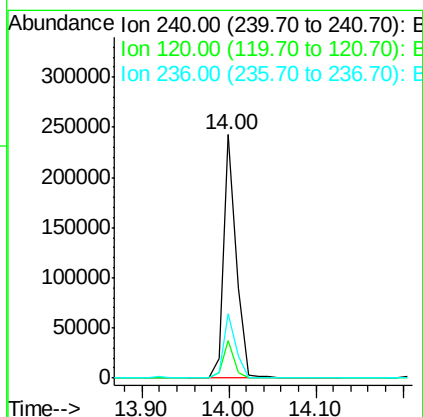
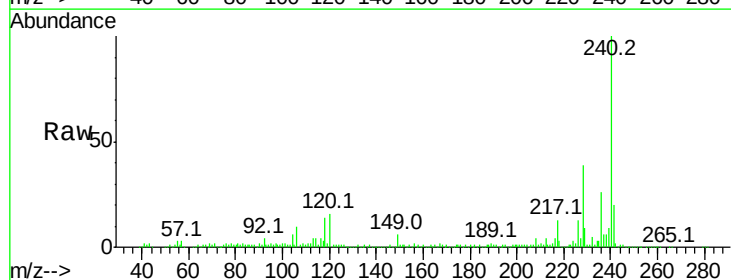
RT: 14.00 min Scan# 1086

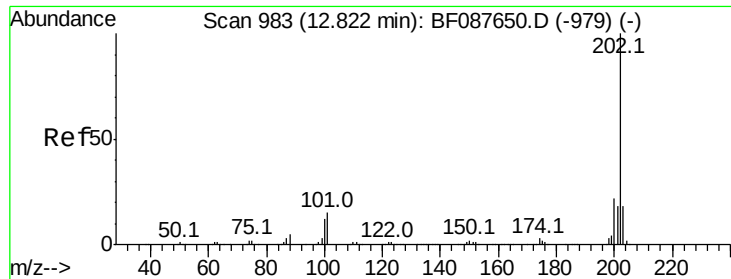
Delta R.T. -0.02 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 240  | Resp: | 247939 |
| Ion Ratio |      | Lower | Upper  |
| 240       | 100  |       |        |
| 120       | 15.6 | 6.8   | 10.2#  |
| 236       | 26.2 | 20.2  | 30.2   |





#77

Pvrene

Concen: 27.34 ng

RT: 12.81 min Scan# 982

Delta R.T. -0.01 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

Instrument :

BNA\_F

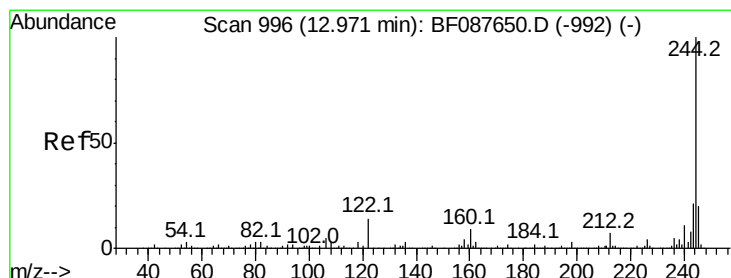
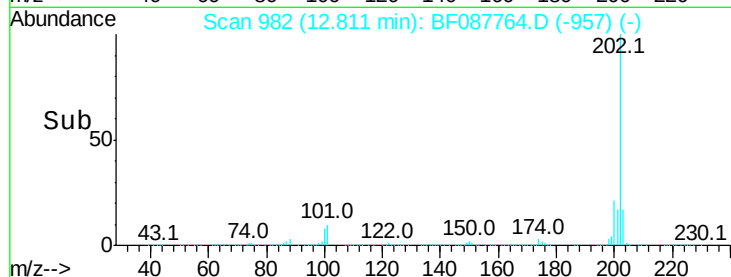
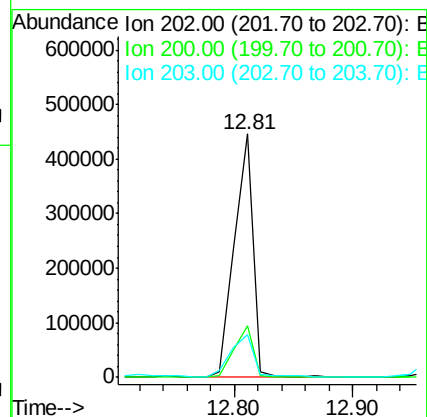
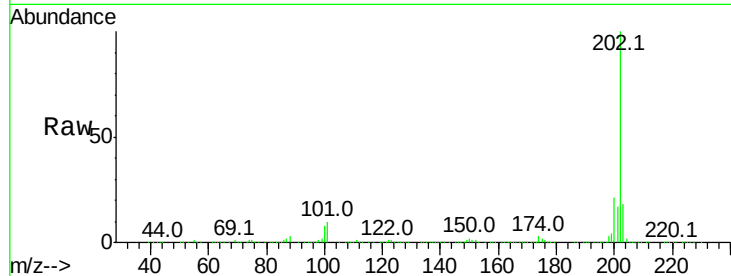
ClientSampleId :

POST-EX-27-20160531

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 482775 |       |       |
| 200     | 21.0 | 17.4  | 26.2   |       |       |
| 203     | 17.7 | 14.5  | 21.7   |       |       |

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#78

Terphenyl-d14

Concen: 52.07 ng

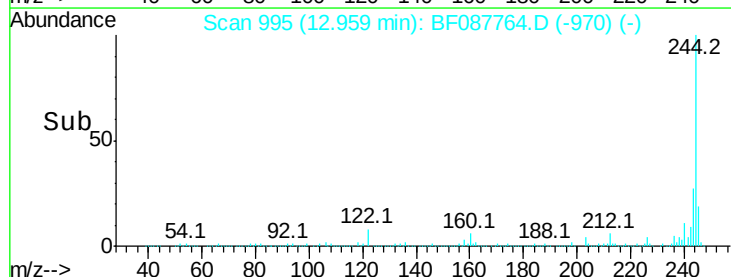
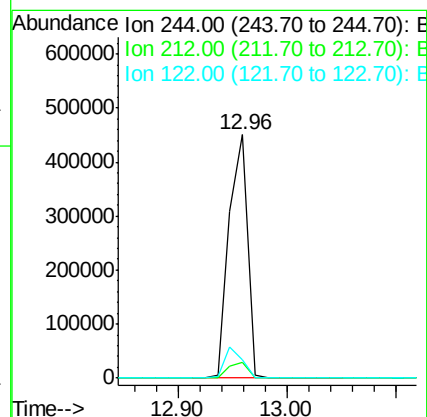
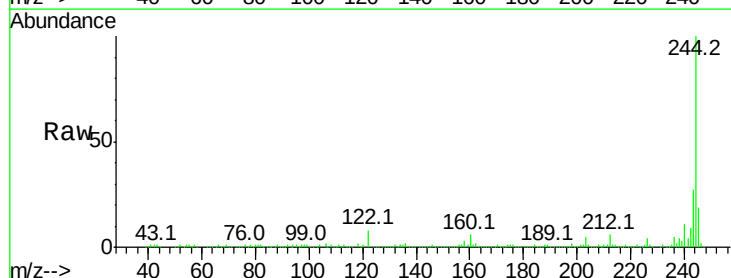
RT: 12.96 min Scan# 995

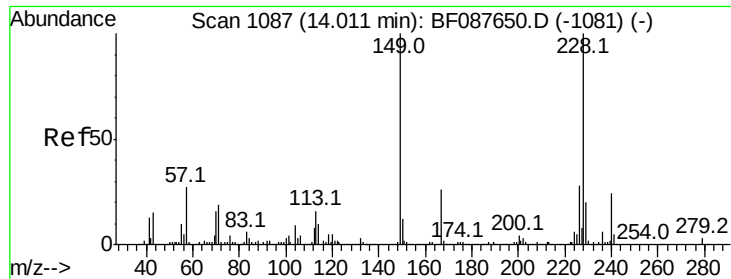
Delta R.T. -0.01 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 244     | 100 |       | 529117 |       |       |
| 212     | 6.2 | 6.0   | 9.0    |       |       |
| 122     | 7.6 | 11.2  | 16.8#  |       |       |





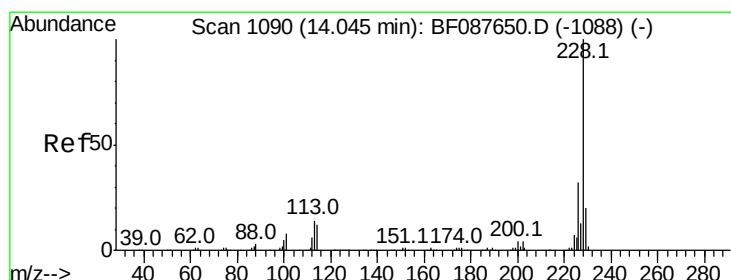
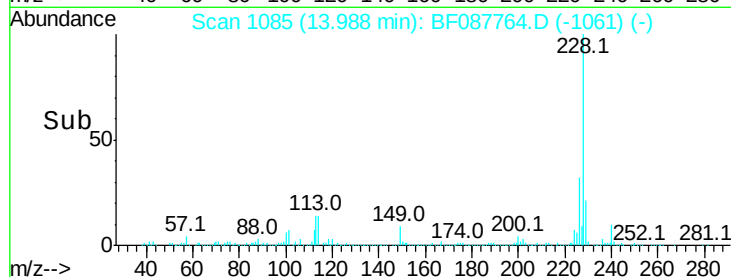
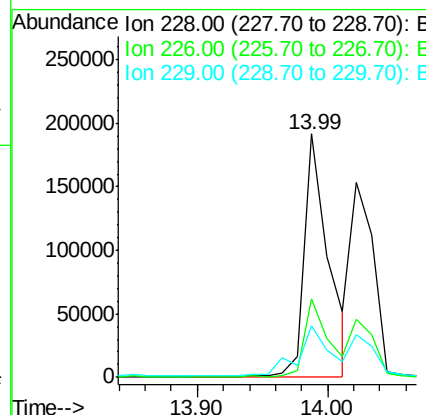
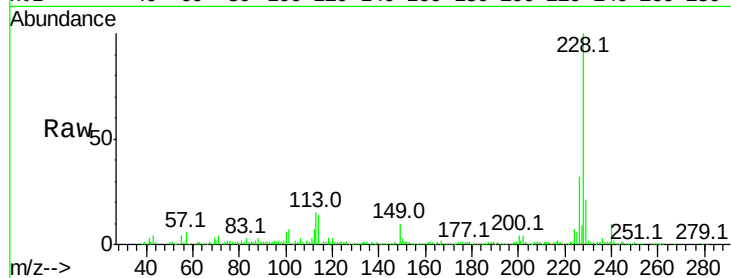
#80  
Benzo(a)anthracene  
Concen: 17.20 ng  
RT: 13.99 min Scan# 1085  
Delta R.T. -0.02 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-27-20160531

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.5  | 22.3  | 33.5  |
| 229     | 21.3  | 16.0  | 24.0  |

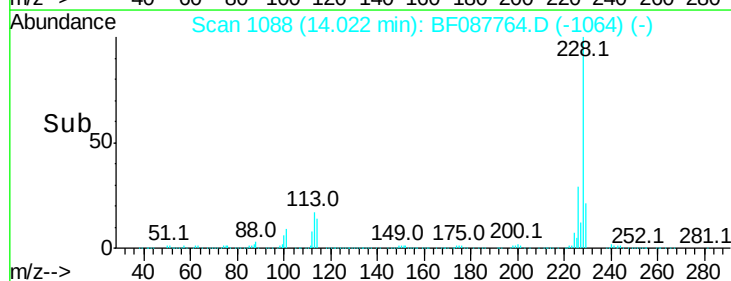
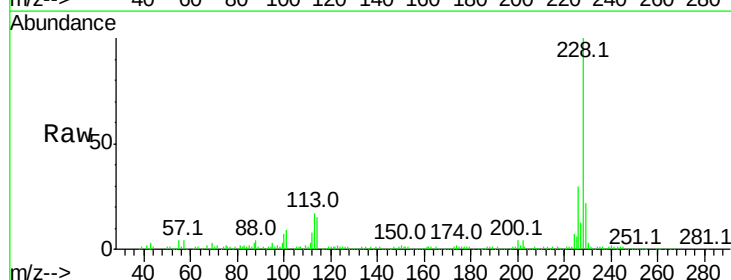
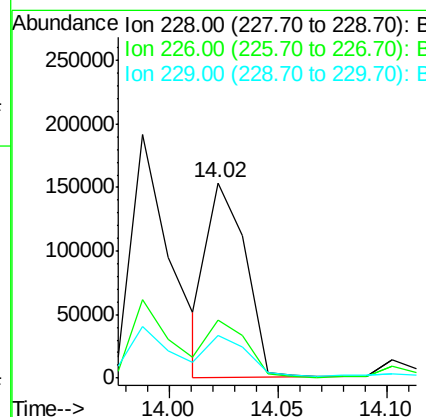
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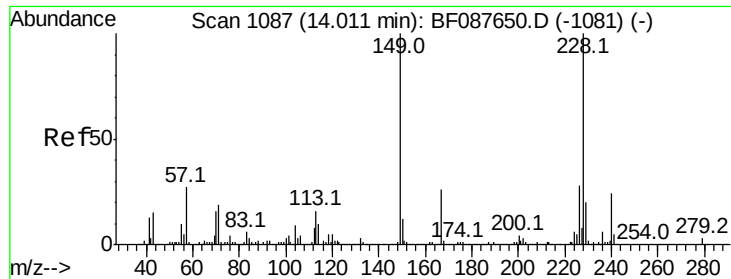
sohil  
6/7/2016 7:22:32 PM



#82  
Chrysene  
Concen: 13.05 ng  
RT: 14.02 min Scan# 1088  
Delta R.T. -0.02 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 25.4  | 38.2  |
| 229     | 22.1  | 16.3  | 24.5  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.61 ng

RT: 13.99 min Scan# 1085

Delta R.T. -0.02 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

Instrument :

BNA\_F

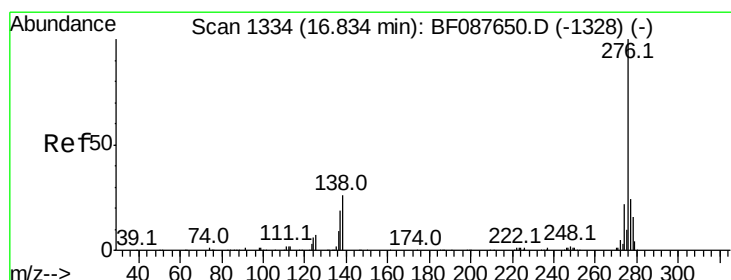
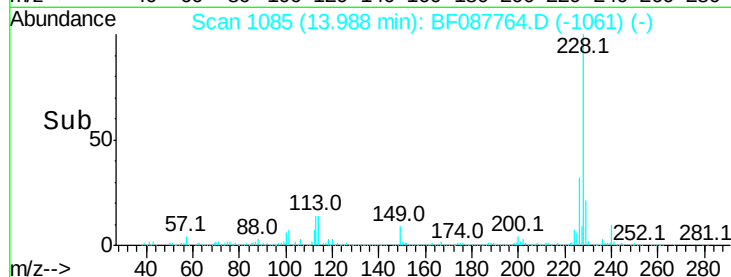
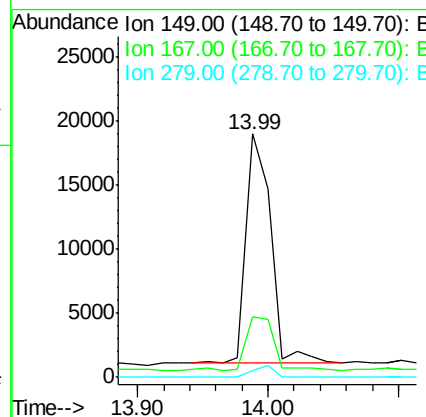
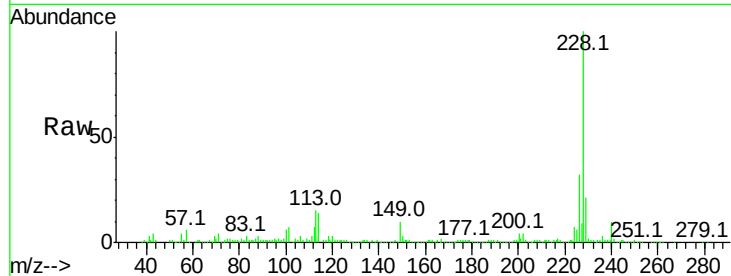
ClientSampleId :

POST-EX-27-20160531

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 23296 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 24.7  | 20.5  | 30.7  |
| 279       | 2.6   | 2.0   | 3.0   |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 9.63 ng

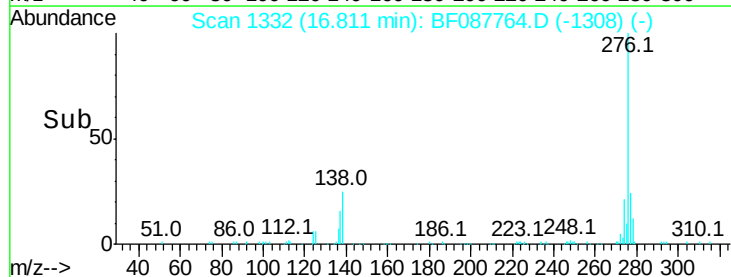
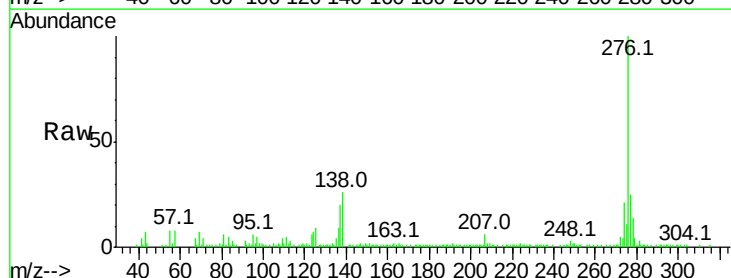
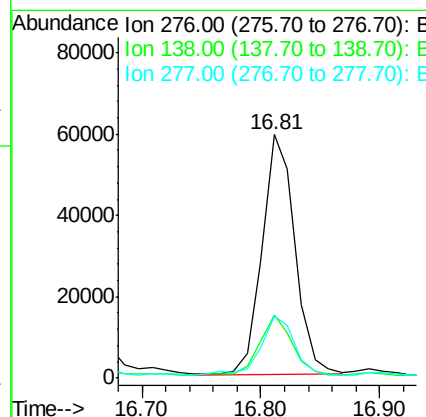
RT: 16.81 min Scan# 1332

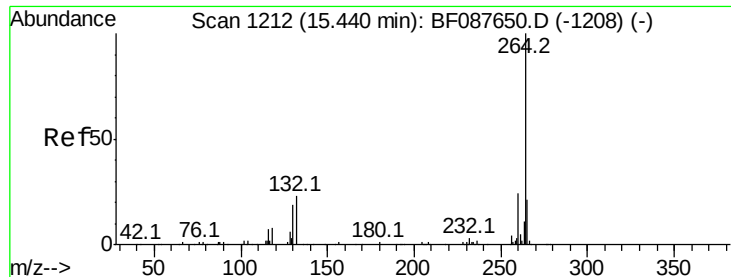
Delta R.T. -0.02 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 113422 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 24.9  | 0.0   | 0.0#   |
| 277       | 25.9  | 0.0   | 0.0#   |





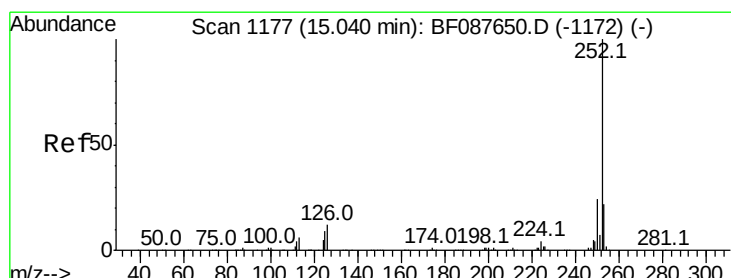
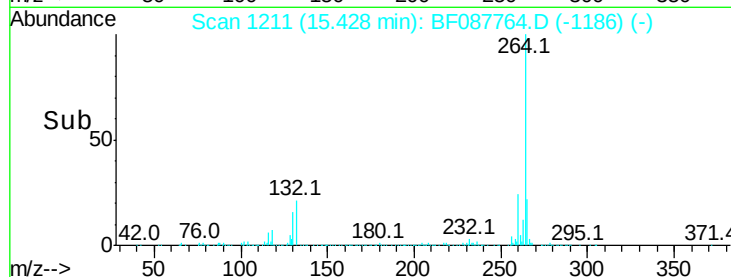
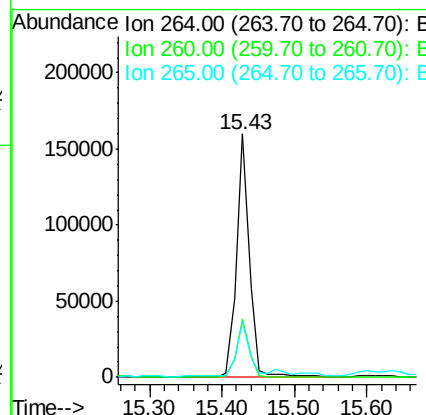
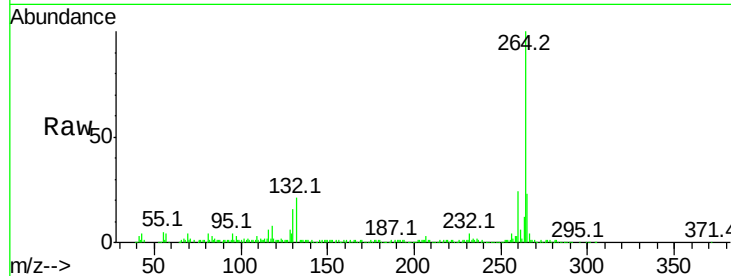
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.43 min Scan# 1211  
Delta R.T. -0.01 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-27-20160531

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 19.2  | 28.8  |
| 265     | 22.6  | 16.9  | 25.3  |

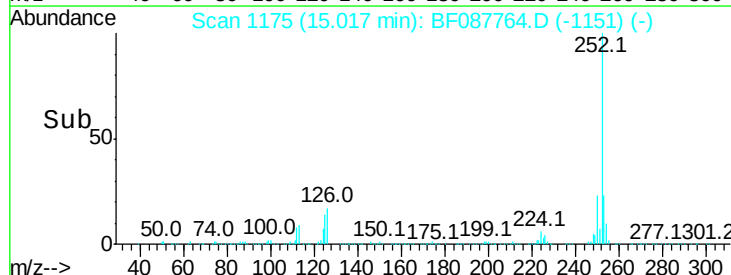
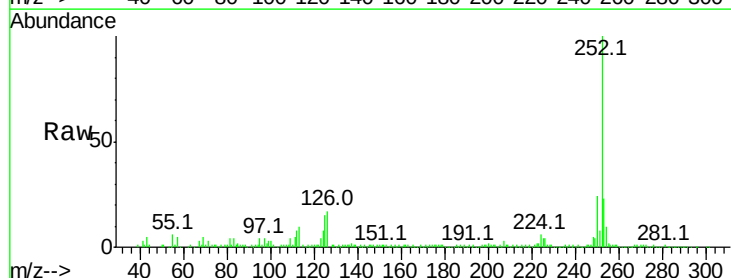
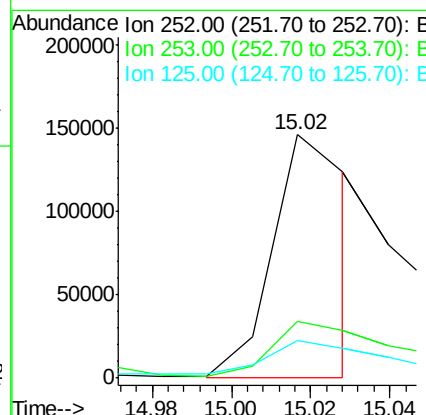
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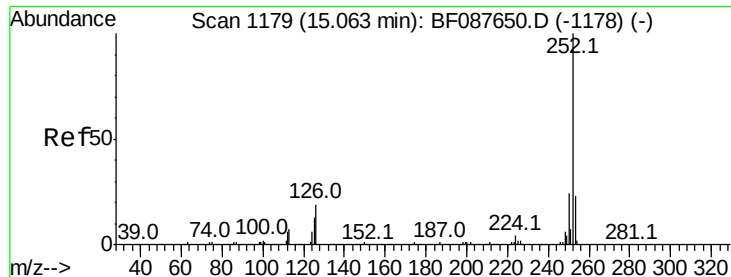
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#87  
Benzo(b)fluoranthene  
Concen: 15.70 ng m  
RT: 15.02 min Scan# 1175  
Delta R.T. -0.02 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.4  | 26.2  |
| 125     | 15.2  | 7.1   | 10.7# |





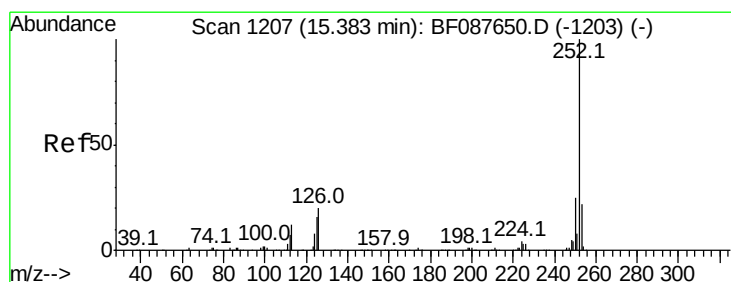
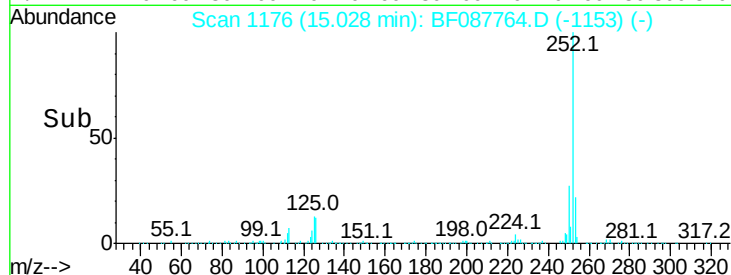
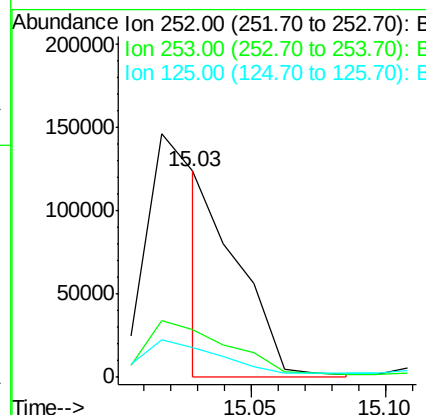
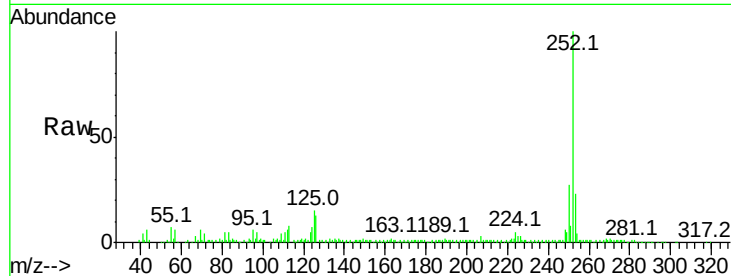
#88  
Benzo(k)fluoranthene  
Concen: 9.35 ng m  
RT: 15.03 min Scan# 1176  
Delta R.T. -0.03 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-27-20160531

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.0  | 27.0  |
| 125     | 14.6  | 11.2  | 16.8  |

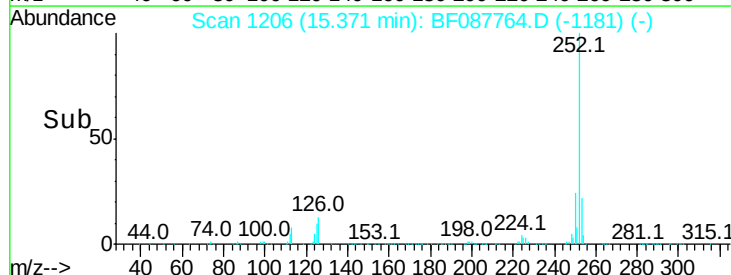
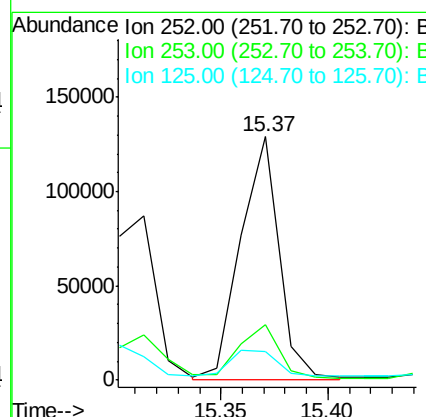
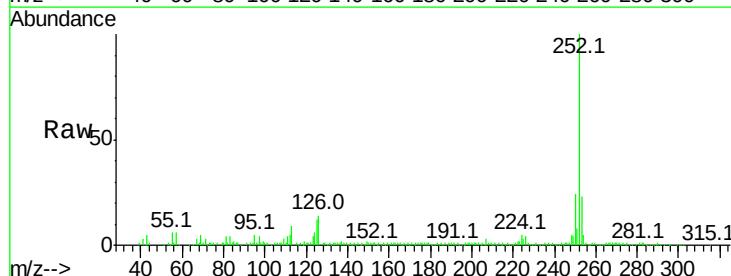
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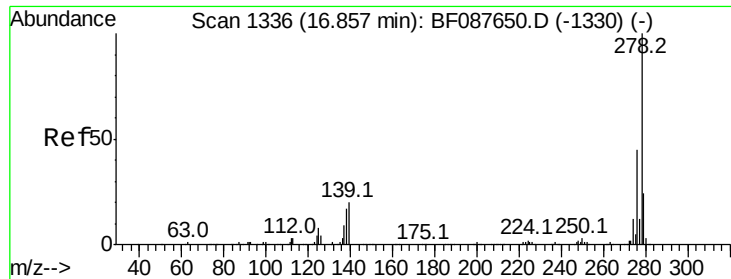
sohil  
6/7/2016 7:22:32 PM



#89  
Benzo(a)pyrene  
Concen: 14.93 ng m  
RT: 15.37 min Scan# 1206  
Delta R.T. -0.01 min  
Lab File: BF087764.D  
Acq: 6 Jun 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.9  | 26.9  |
| 125     | 11.6  | 12.5  | 18.7# |





#90

Dibenzo(a,h)anthracene

Concen: 2.79 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.03 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

Instrument :

BNA\_F

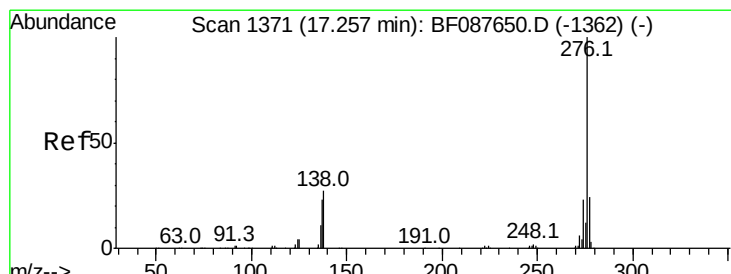
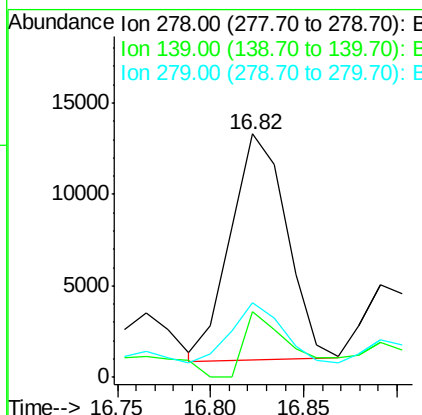
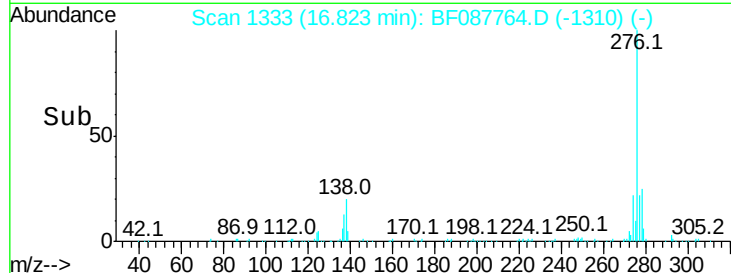
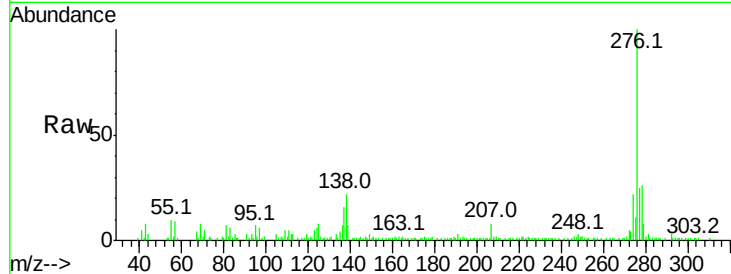
ClientSampleId :

POST-EX-27-20160531

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 25748 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 26.8  | 15.7  | 23.5# |
| 279       | 30.6  | 19.4  | 29.2# |

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#91

Benzo(g,h,i)perylene

Concen: 12.81 ng

RT: 17.23 min Scan# 1369

Delta R.T. -0.02 min

Lab File: BF087764.D

Acq: 6 Jun 2016 21:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 119063 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 22.9  | 18.9  | 28.3   |
| 138       | 24.7  | 21.4  | 32.2   |

