

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
 Data File : BF088423.D  
 Acq On : 26 Jun 2016 17:30  
 Operator : UM/SJ  
 Sample : H3663-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-15

Manual Integrations  
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Quant Time: Jun 28 11:19:24 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 22 14:55:14 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.55  | 152  | 68618    | 20.00  | ng    | -0.06    |
| 21) Naphthalene-d8          | 7.84  | 136  | 278776   | 20.00  | ng    | -0.06    |
| 38) Acenaphthene-d10        | 9.58  | 164  | 135408   | 20.00  | ng    | -0.07    |
| 63) Phenanthrene-d10        | 11.05 | 188  | 238723   | 20.00  | ng    | -0.07    |
| 75) Chrysene-d12            | 13.69 | 240  | 136091   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12            | 15.04 | 264  | 149839   | 20.00  | ng    | -0.07    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.13  | 112  | 535120   | 133.32 | ng    | -0.05    |
| 7) Phenol-d6                | 6.22  | 99   | 661436   | 135.97 | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.12  | 82   | 416408   | 87.22  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol    | 10.37 | 330  | 160044   | 111.94 | ng    | -0.07    |
| 44) 2-Fluorobiphenyl        | 8.91  | 172  | 733845   | 85.15  | ng    | -0.06    |
| 78) Terphenyl-d14           | 12.64 | 244  | 570370   | 95.37  | ng    | -0.06    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.31  | 163  | 198629   | 20.25  | ng    | 99       |
| 51) Acenaphthene            | 9.61  | 154  | 22906    | 2.63   | ng    | 97       |
| 70) Phenanthrene            | 11.07 | 178  | 273974   | 21.87  | ng    | 99       |
| 71) Anthracene              | 11.13 | 178  | 73618    | 5.83   | ng    | 98       |
| 72) Carbazole               | 11.30 | 167  | 62182    | 5.26   | ng    | 99       |
| 74) Fluoranthene            | 12.26 | 202  | 892100   | 67.48  | ng    | 99       |
| 77) Pyrene                  | 12.49 | 202  | 851132   | 84.28  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.68 | 228  | 833367   | 107.46 | ng    | 99       |
| 82) Chrysene                | 13.73 | 228  | 1404351  | 192.48 | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.26 | 276  | 339057   | 50.02  | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 14.69 | 252  | 1285452m | 123.08 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.70 | 252  | 445026m  | 56.49  | ng    |          |
| 89) Benzo(a)pyrene          | 14.99 | 252  | 475560m  | 56.28  | ng    |          |
| 90) Dibenzo(a,h)anthracene  | 16.26 | 278  | 103933m  | 13.24  | ng    |          |
| 91) Benzo(a,h,i)perylene    | 16.63 | 276  | 332012   | 41.13  | ng    | 97       |

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

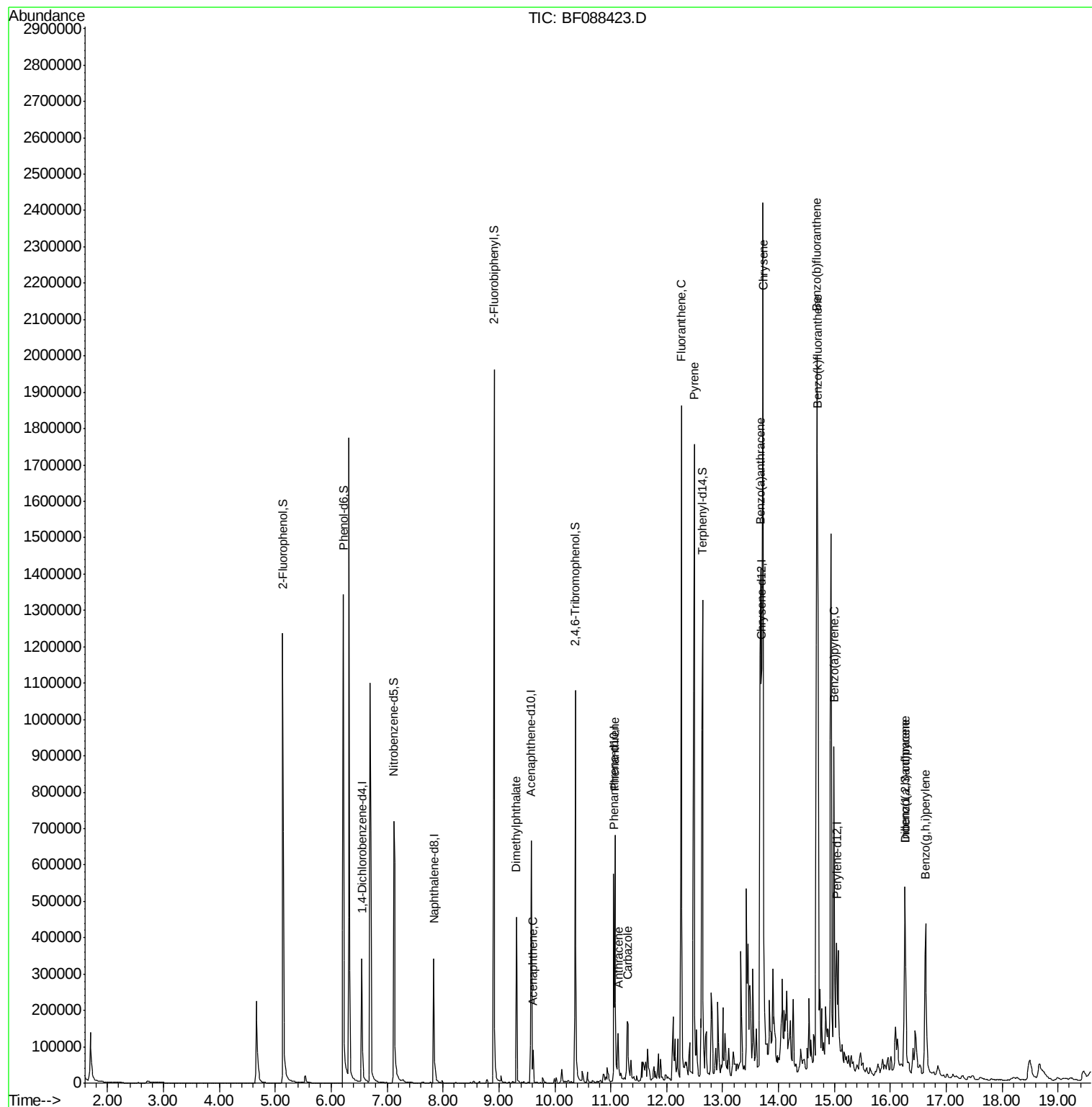
Data Path : Z:\HPCHEM1\BNA F\DATA\BF062616\  
Data File : BF088423.D  
Acq On : 26 Jun 2016 17:30  
Operator : UM/SJ  
Sample : H3663-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

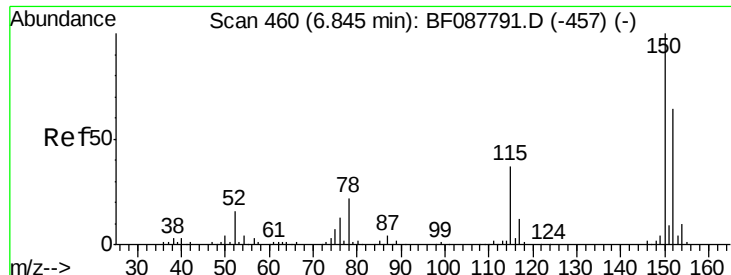
Instrument :  
BNA\_F  
ClientSampleId :  
TP-15

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Quant Time: Jun 28 11:19:24 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 22 14:55:14 2016  
Response via : Initial Calibration





#1

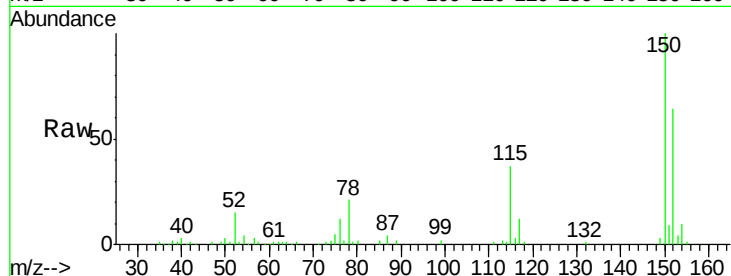
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.55 min Scan# 434  
Delta R.T. -0.06 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

Instrument :  
BNA\_F  
ClientSampled :  
TP-15

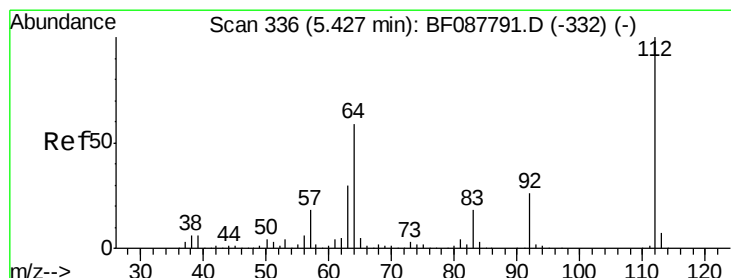
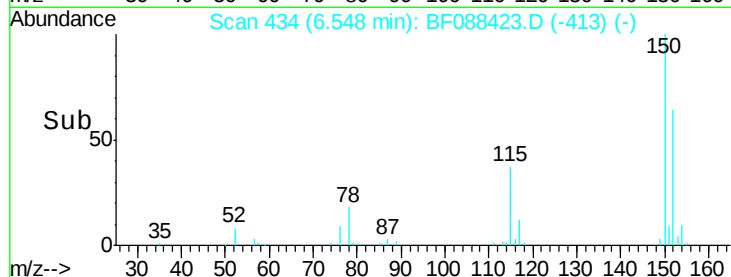
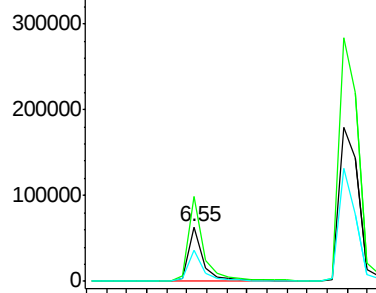
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.8 | 123.8 | 185.6 |
| 115     | 57.7  | 39.6  | 59.4  |

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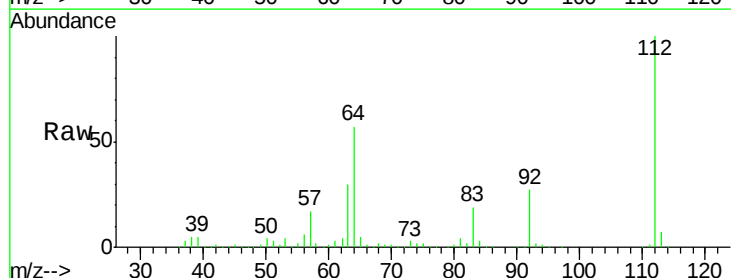
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



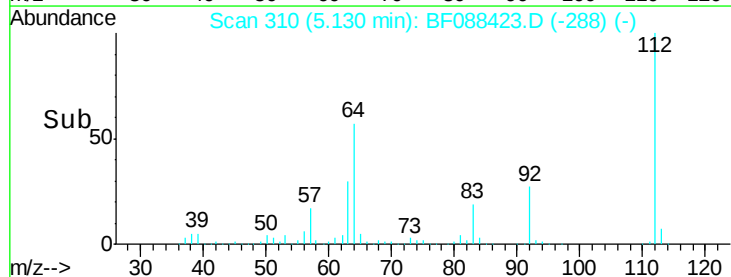
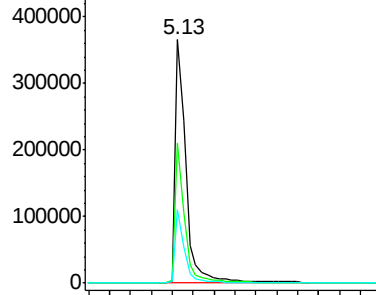
#5

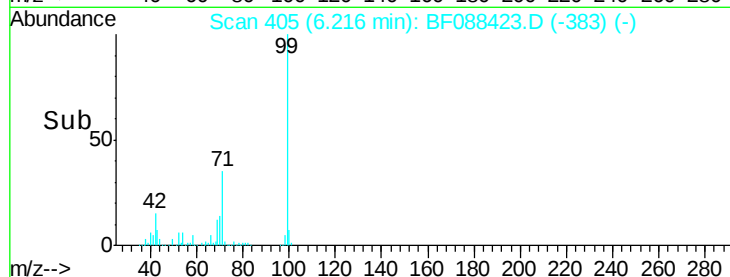
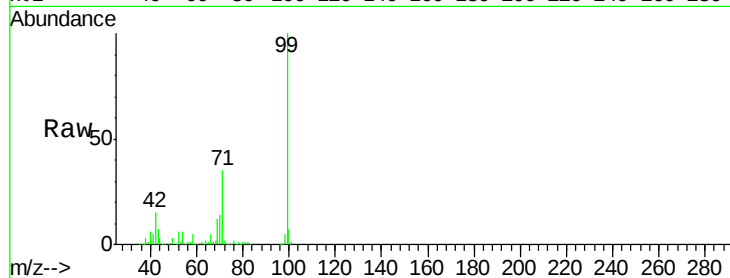
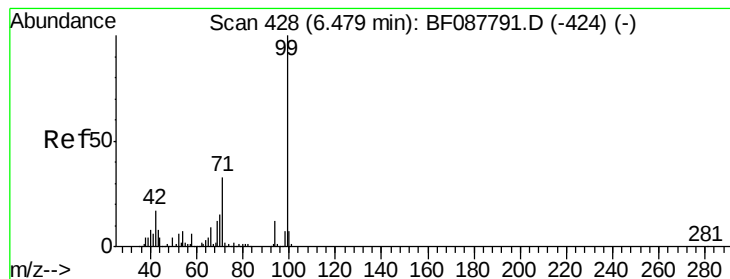
2-Fluorophenol  
Concen: 133.32 ng  
RT: 5.13 min Scan# 310  
Delta R.T. -0.05 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.3  | 42.2  | 63.2  |
| 63      | 29.9  | 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: 135.97 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.05 min

Lab File: BF088423.D

Acq: 26 Jun 2016 17:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 661436 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 15.3  | 12.2  | 18.2   |
| 71       | 35.1  | 23.4  | 35.0#  |

Instrument :

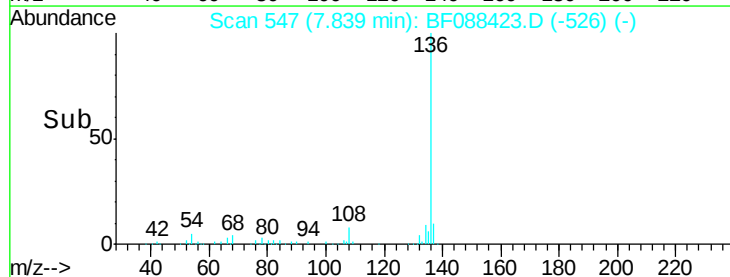
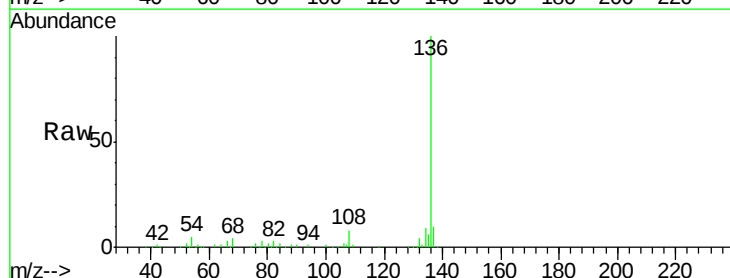
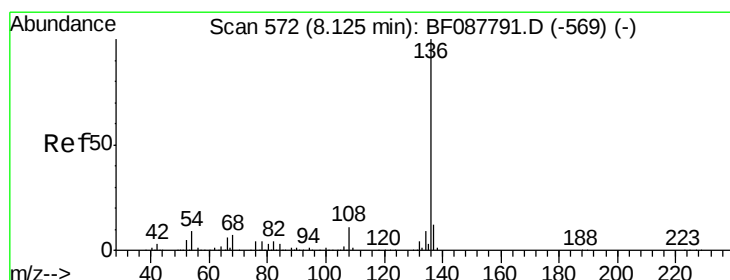
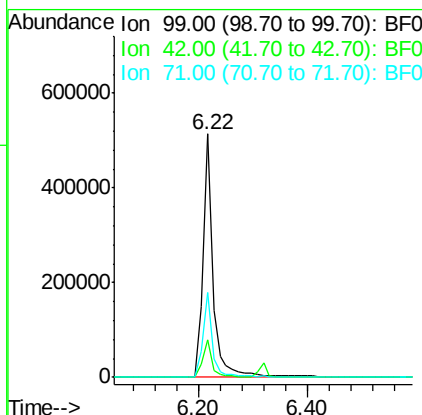
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ClientSampled :

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#21

Naphthalene-d8

Concen: 20.00 ng

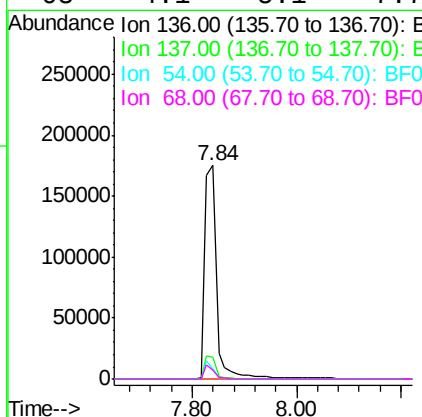
RT: 7.84 min Scan# 547

Delta R.T. -0.06 min

Lab File: BF088423.D

Acq: 26 Jun 2016 17:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 278776 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.3  | 9.1   | 13.7   |
| 54       | 4.6   | 6.6   | 10.0#  |
| 68       | 4.1   | 5.1   | 7.7#   |





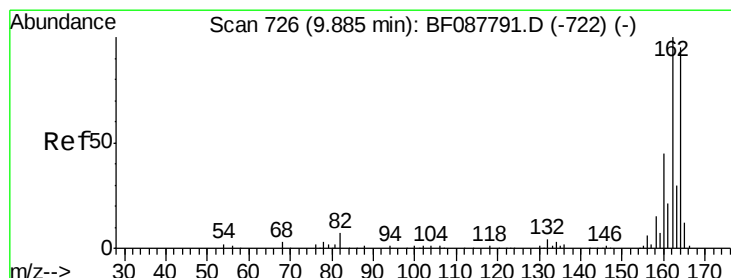
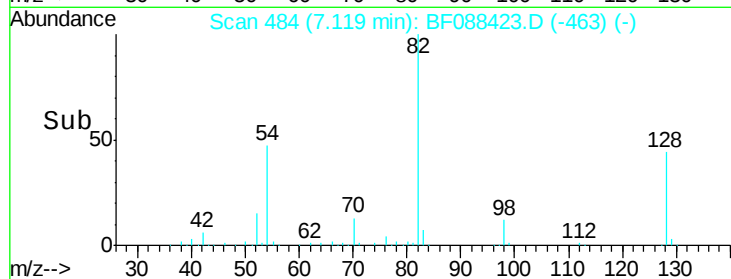
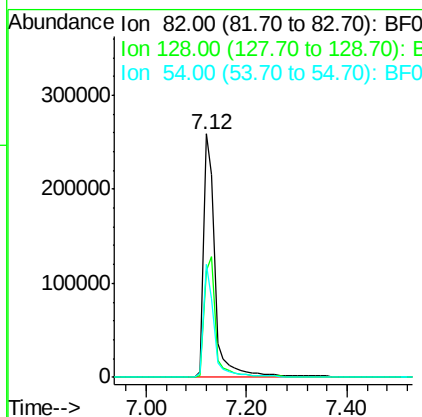
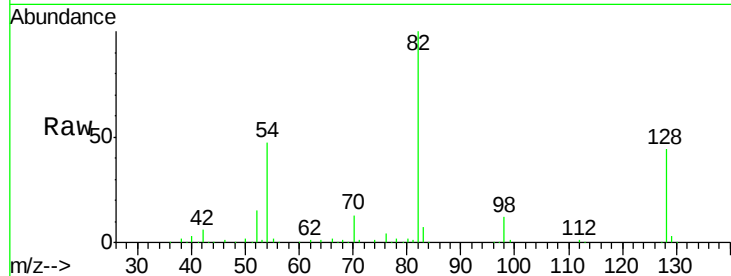
#23  
 Nitrobenzene-d5  
 Concen: 87.22 ng  
 RT: 7.12 min Scan# 484  
 Delta R.T. -0.06 min  
 Lab File: BF088423.D  
 Acq: 26 Jun 2016 17:30

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.8  | 35.9  | 53.9  |
| 54      | 46.5  | 40.9  | 61.3  |

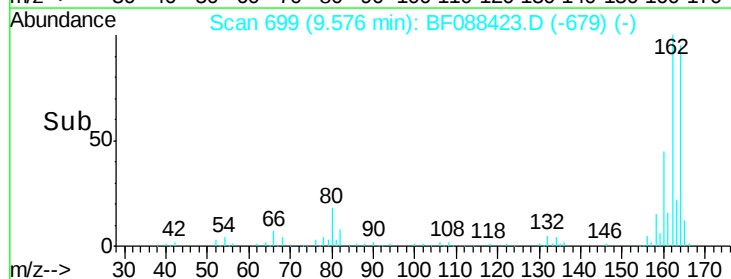
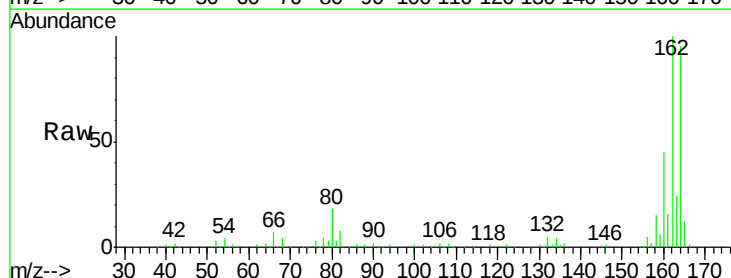
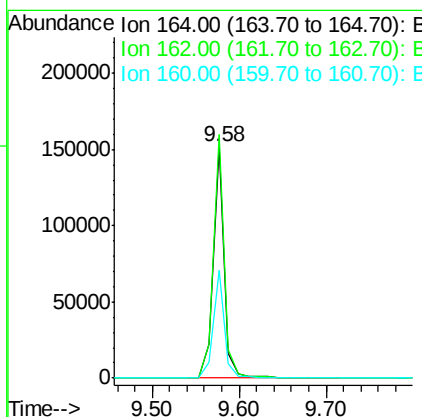
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.58 min Scan# 699  
 Delta R.T. -0.07 min  
 Lab File: BF088423.D  
 Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.3 | 85.4  | 128.2 |
| 160     | 46.9  | 39.5  | 59.3  |





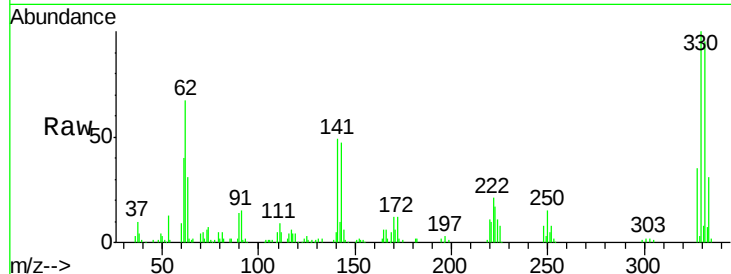
#41  
 2,4,6-Tribromophenol  
 Concen: 111.94 ng  
 RT: 10.37 min Scan# 768  
 Delta R.T. -0.07 min  
 Lab File: BF088423.D  
 Acq: 26 Jun 2016 17:30

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-15

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 160044 |       |       |
| 332     | 95.8  | 0.0    | 0.0   | 0.0   |
| 141     | 37.7  | 0.0    | 0.0   | 0.0   |

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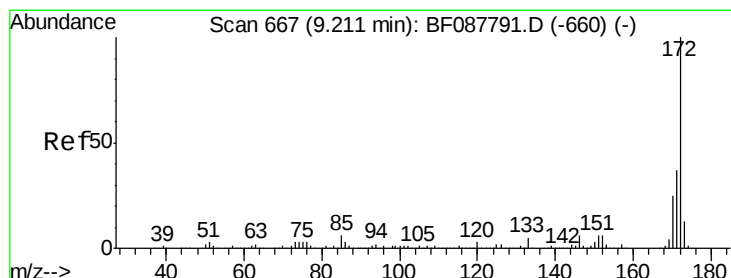
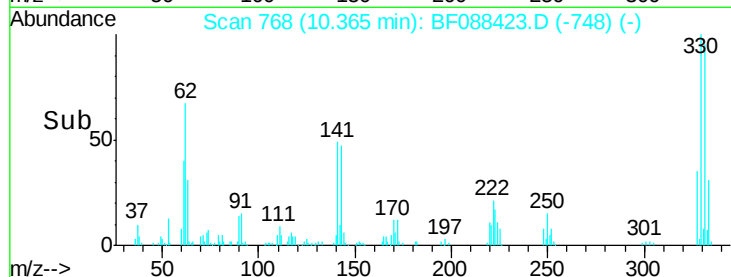
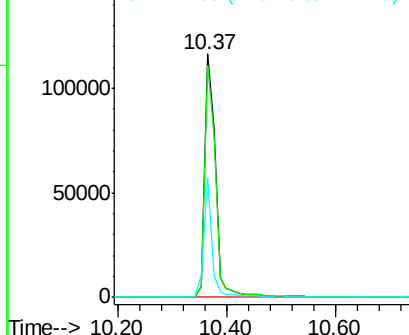


Abundance

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: 85.15 ng  
 RT: 8.91 min Scan# 641  
 Delta R.T. -0.06 min  
 Lab File: BF088423.D  
 Acq: 26 Jun 2016 17:30

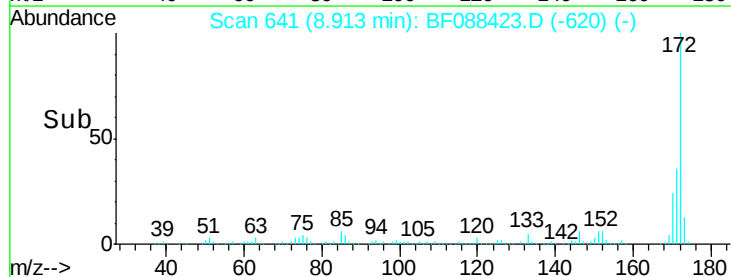
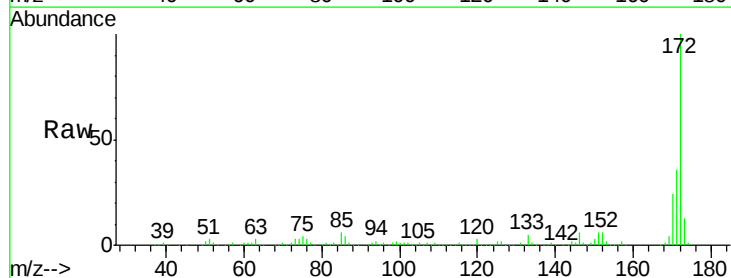
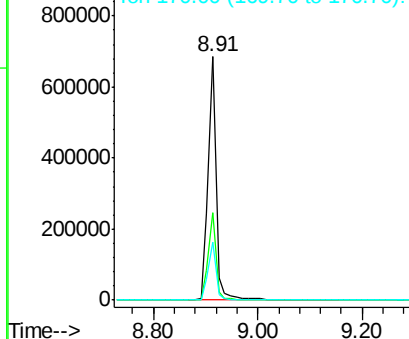
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 733845 |       |       |
| 171     | 36.0  | 28.6   | 43.0  |       |
| 170     | 24.1  | 19.2   | 28.8  |       |

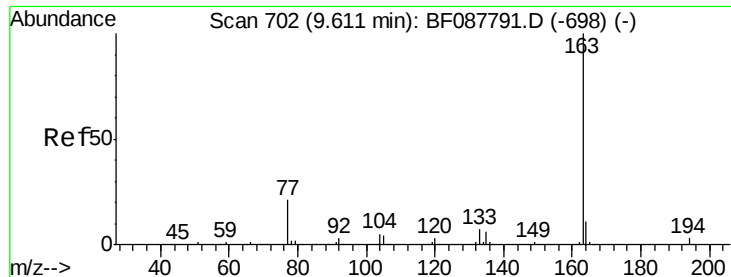
Abundance

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





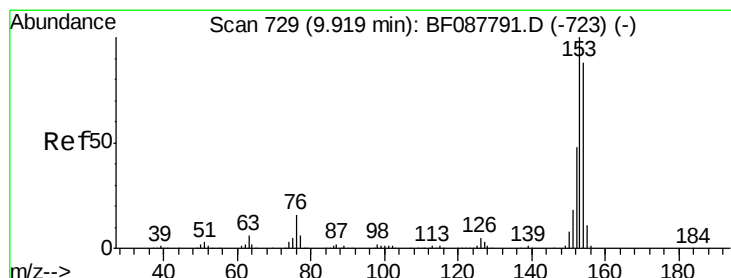
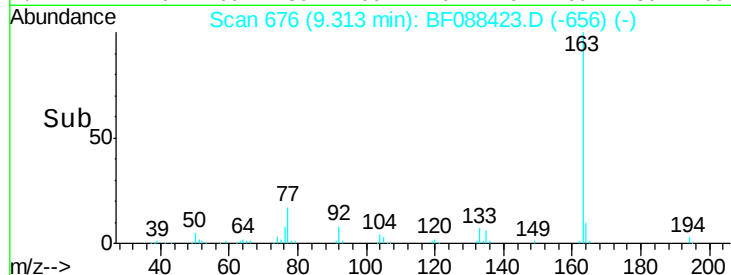
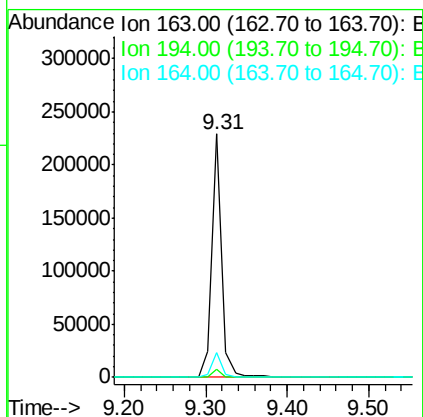
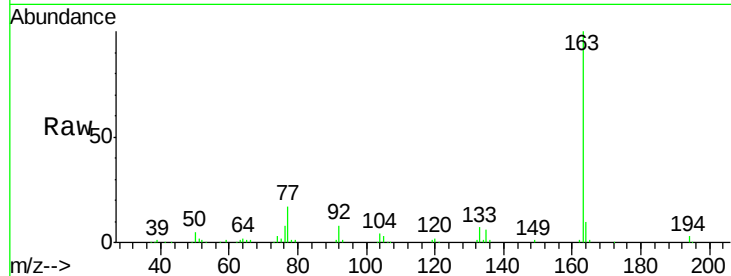
#49  
Dimethylphthalate  
Concen: 20.25 ng  
RT: 9.31 min Scan# 676  
Delta R.T. -0.07 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 198629 |       |       |
| 194     | 3.2   |        | 2.8   | 4.2   |
| 164     | 9.9   |        | 8.3   | 12.5  |

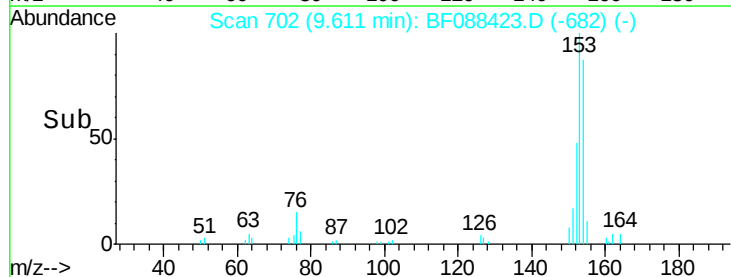
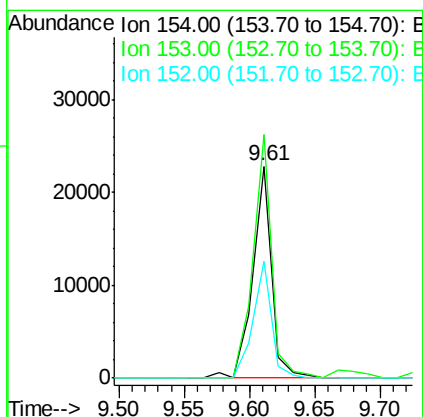
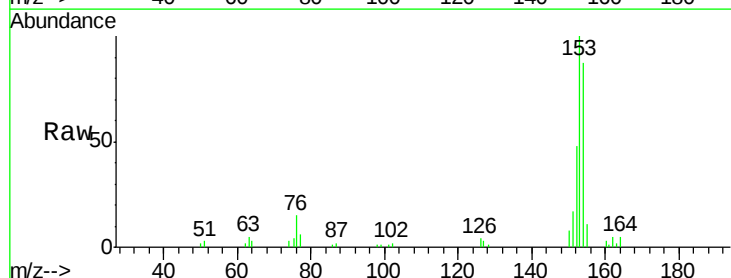
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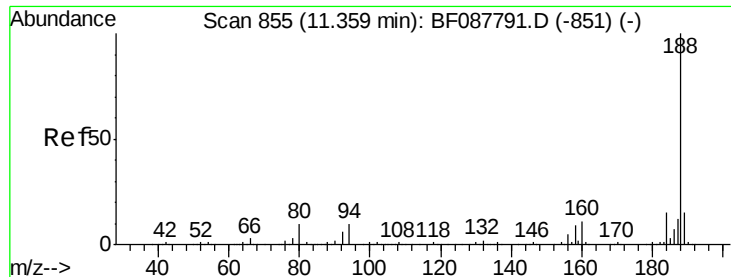
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#51  
Acenaphthene  
Concen: 2.63 ng  
RT: 9.61 min Scan# 702  
Delta R.T. -0.07 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 22906 |       |       |
| 153     | 114.8 |       | 89.5  | 134.3 |
| 152     | 55.2  |       | 42.7  | 64.1  |





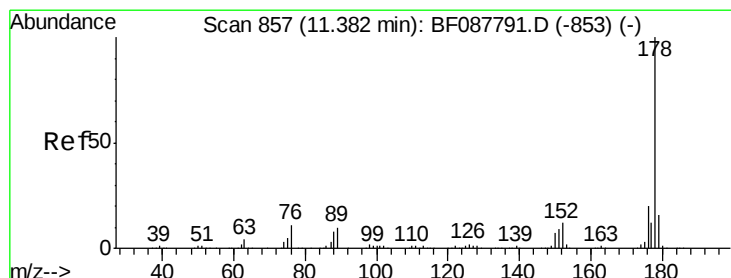
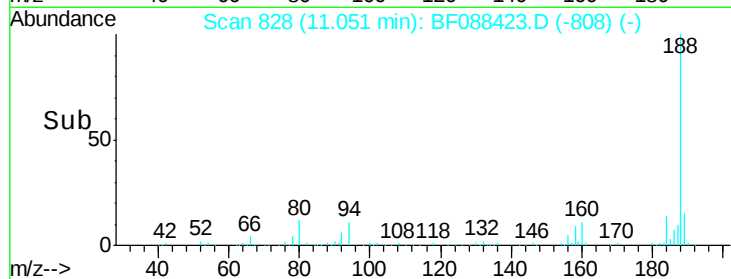
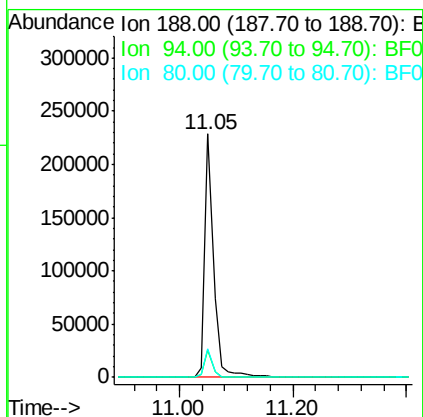
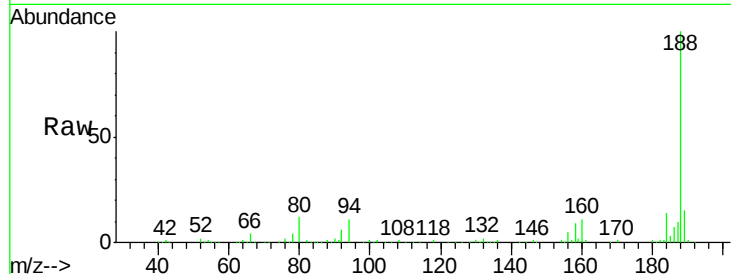
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.05 min Scan# 828  
Delta R.T. -0.07 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.1  | 9.0   | 13.6  |
| 80      | 11.6  | 10.0  | 15.0  |

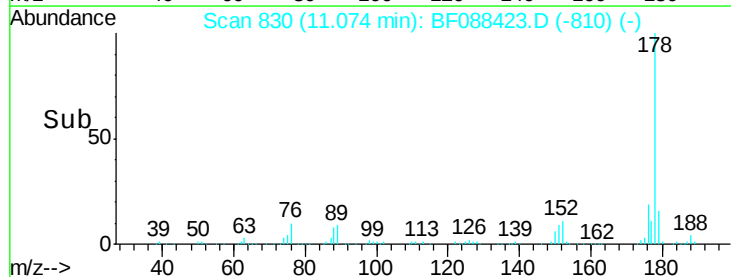
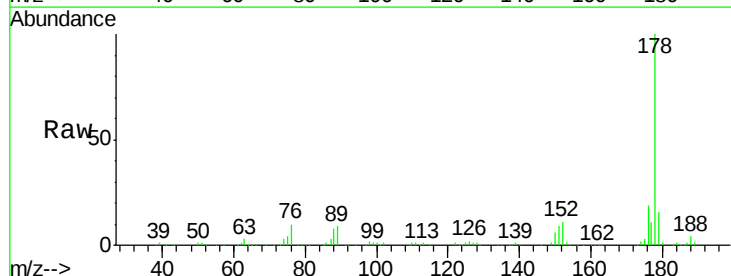
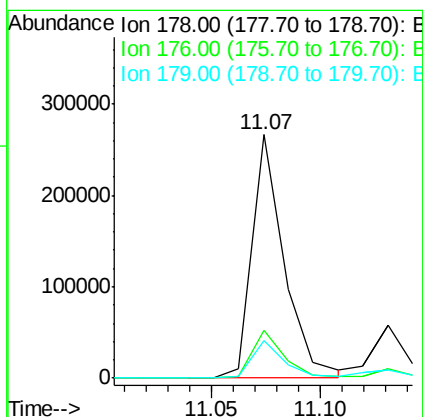
Manual Integrations  
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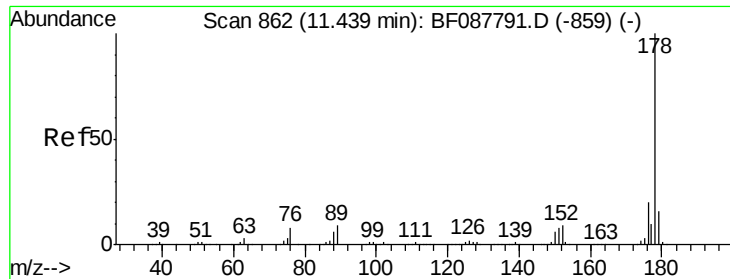
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#70  
Phenanthrene  
Concen: 21.87 ng  
RT: 11.07 min Scan# 830  
Delta R.T. -0.07 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.8  | 23.6  |
| 179     | 15.5  | 13.0  | 19.4  |





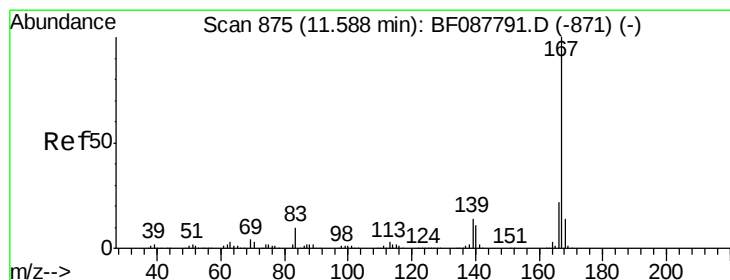
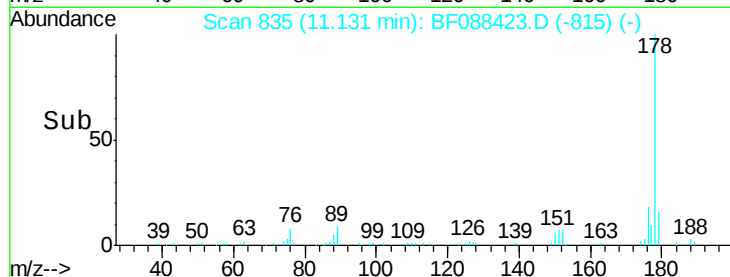
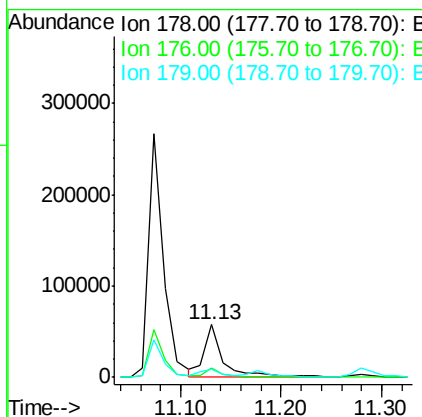
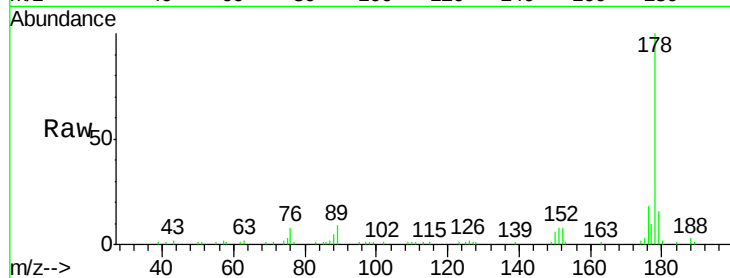
#71  
 Anthracene  
 Concen: 5.83 ng  
 RT: 11.13 min Scan# 835  
 Delta R.T. -0.07 min  
 Lab File: BF088423.D  
 Acq: 26 Jun 2016 17:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.9  | 15.6  | 23.4  |
| 179     | 16.3  | 12.8  | 19.2  |

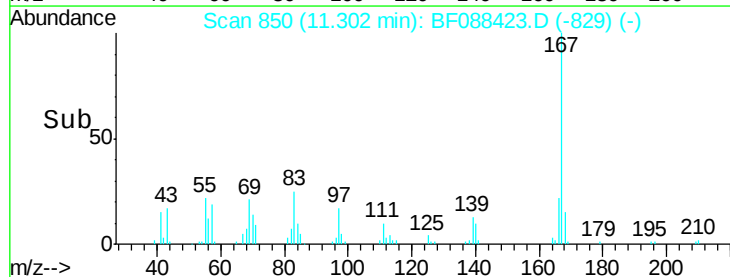
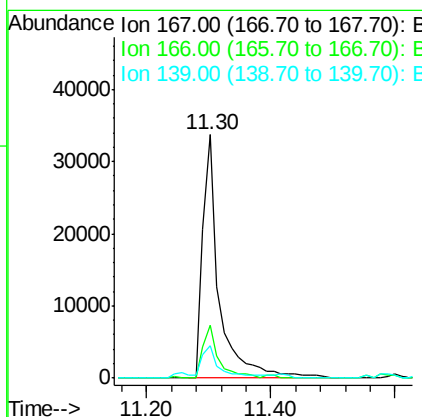
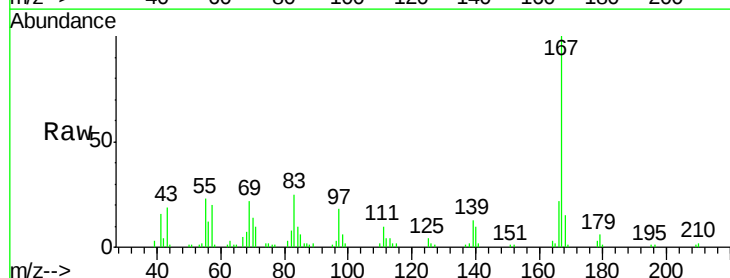
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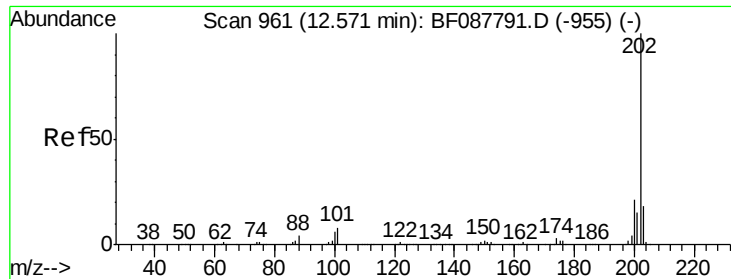
sohil  
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#72  
 Carbazole  
 Concen: 5.26 ng  
 RT: 11.30 min Scan# 850  
 Delta R.T. -0.06 min  
 Lab File: BF088423.D  
 Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.9  | 17.8  | 26.6  |
| 139     | 13.2  | 11.2  | 16.8  |





#74

Fluoranthene

Concen: 67.48 ng

RT: 12.26 min Scan# 934

Delta R.T. -0.06 min

Lab File: BF088423.D

Acq: 26 Jun 2016 17:30

Instrument :

BNA\_F

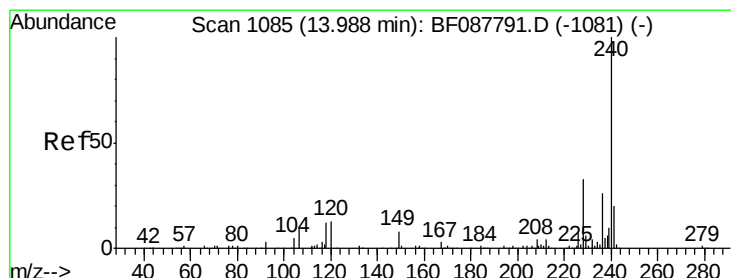
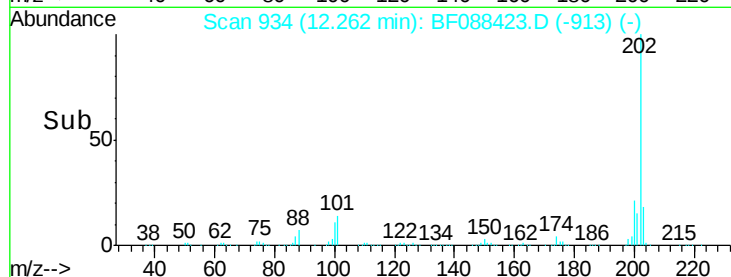
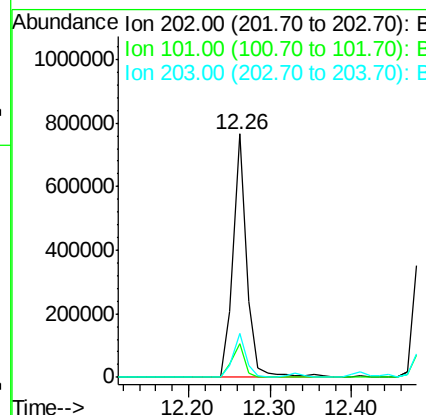
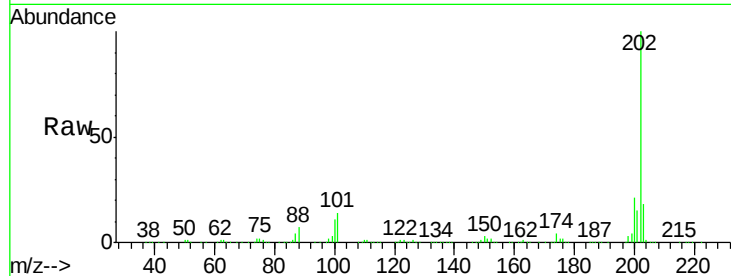
ClientSampled :

TP-15

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 14.0  | 0.0        | 33.1  |
| 203     | 18.0  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.00 ng

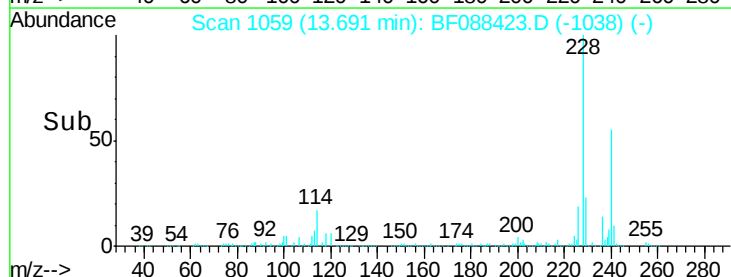
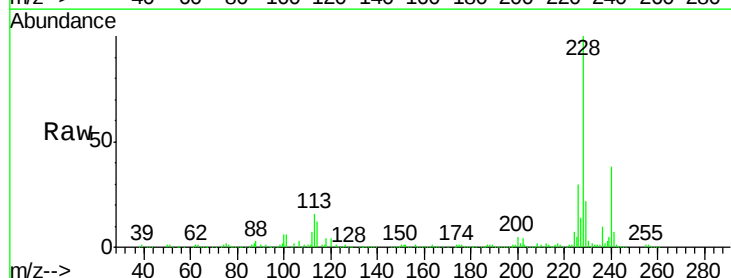
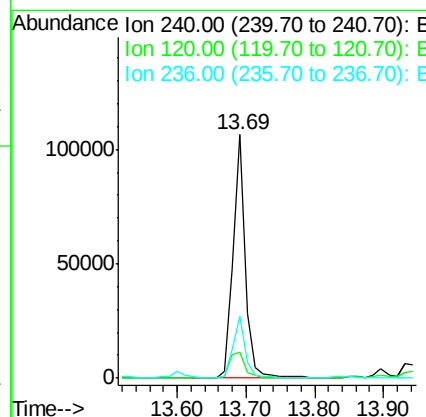
RT: 13.69 min Scan# 1059

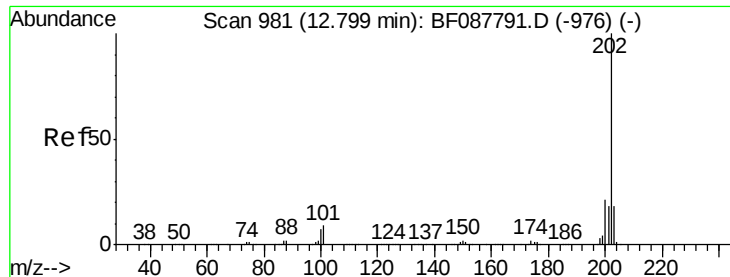
Delta R.T. -0.06 min

Lab File: BF088423.D

Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 10.9  | 6.8        | 10.2# |
| 236     | 25.5  | 20.2       | 30.2  |





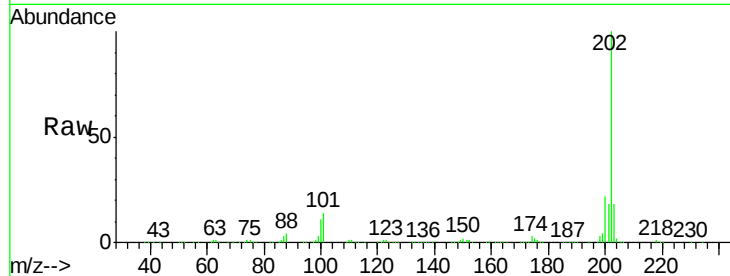
#77  
Pvrene  
Concen: 84.28 ng  
RT: 12.49 min Scan# 954  
Delta R.T. -0.06 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

Instrument :  
BNA\_F  
ClientSampled :  
TP-15

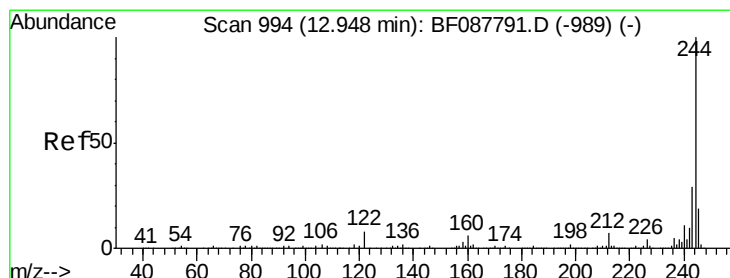
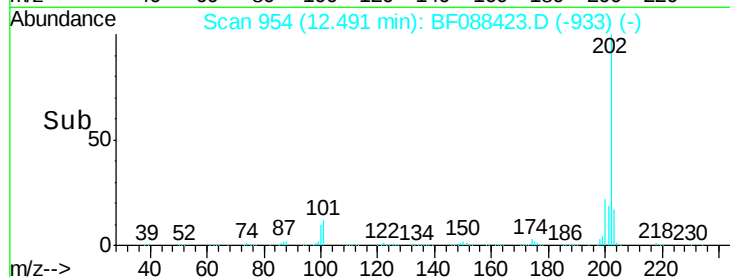
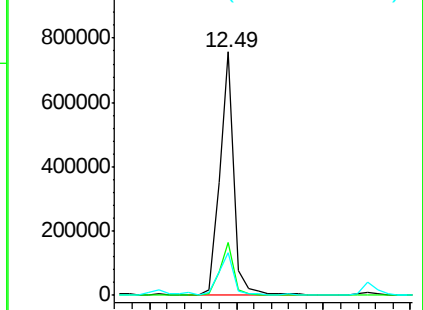
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.6  | 17.4  | 26.2  |
| 203     | 17.6  | 14.5  | 21.7  |

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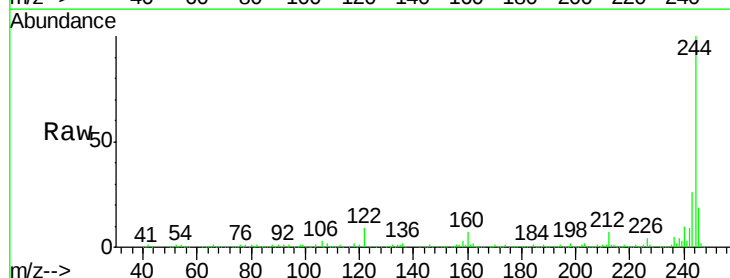


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

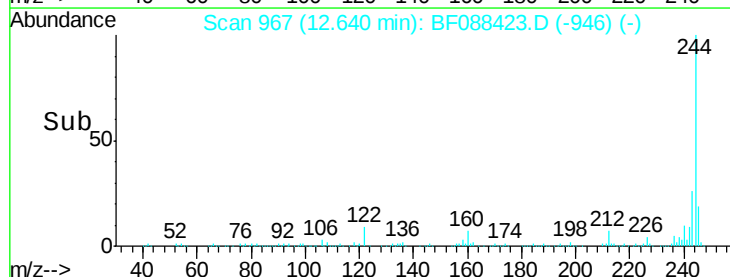
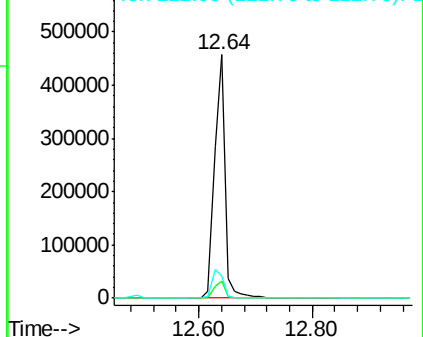


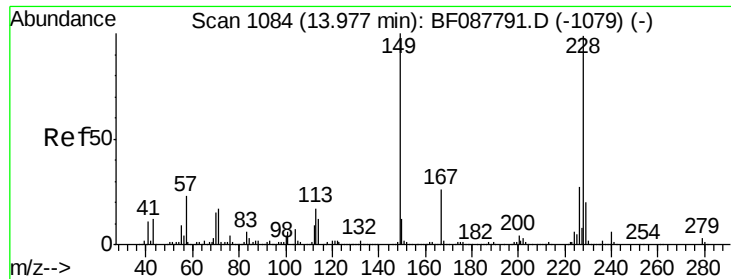
#78  
Terphenyl-d14  
Concen: 95.37 ng  
RT: 12.64 min Scan# 967  
Delta R.T. -0.06 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.0   | 9.0   |
| 122     | 9.2   | 11.2  | 16.8# |



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





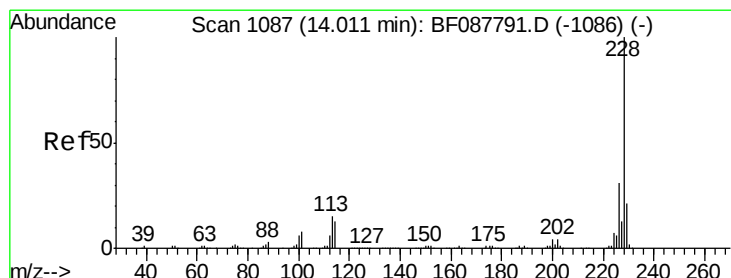
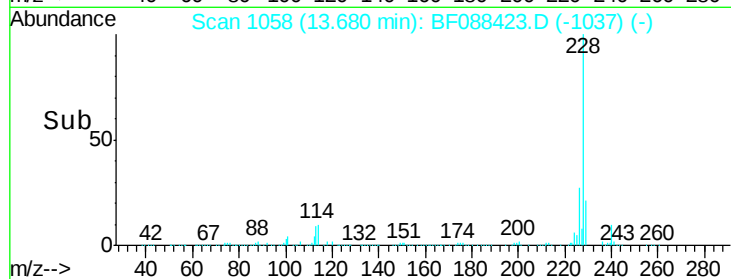
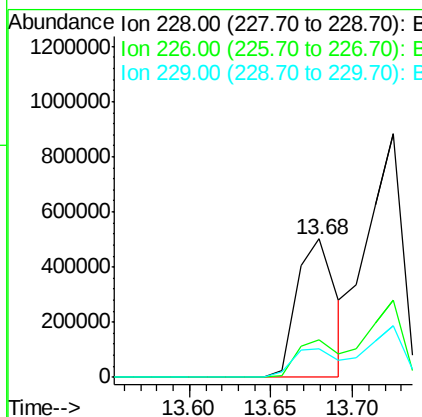
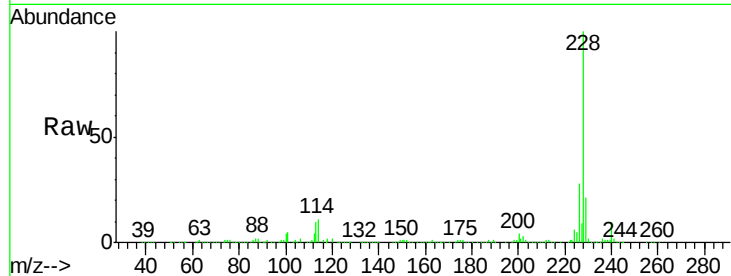
#80  
Benzo(a)anthracene  
Concen: 107.46 ng  
RT: 13.68 min Scan# 1058  
Delta R.T. -0.06 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

Instrument :  
BNA\_F  
ClientSampled :  
TP-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 22.3  | 33.5  |
| 229     | 21.0  | 16.0  | 24.0  |

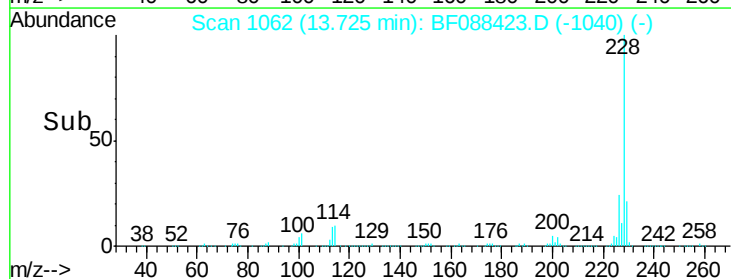
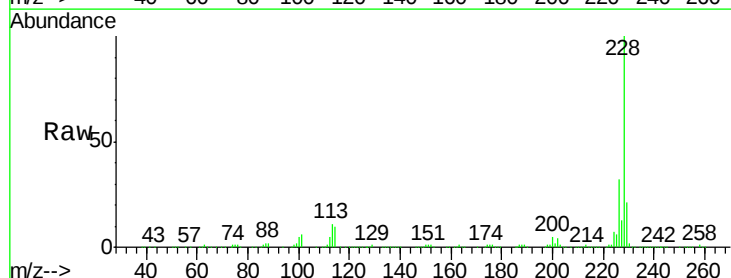
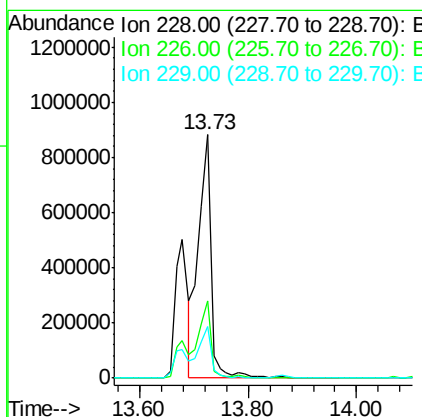
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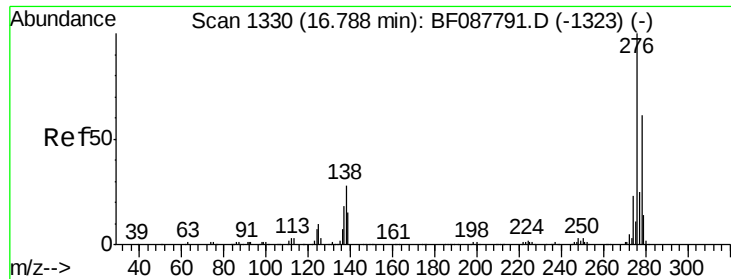
sohil  
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#82  
Chrysene  
Concen: 192.48 ng  
RT: 13.73 min Scan# 1062  
Delta R.T. -0.05 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 25.4  | 38.2  |
| 229     | 21.4  | 16.3  | 24.5  |





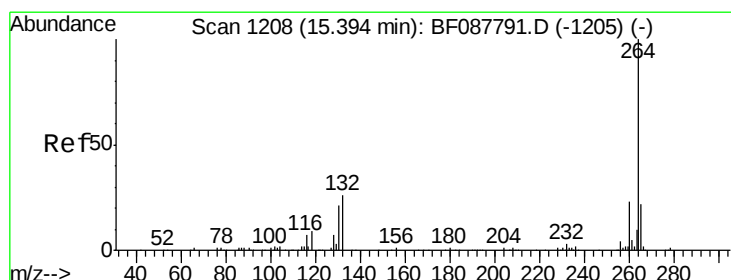
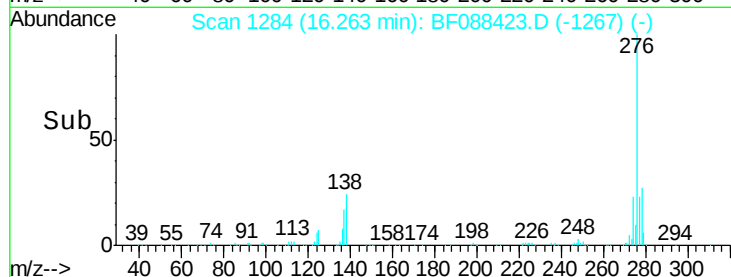
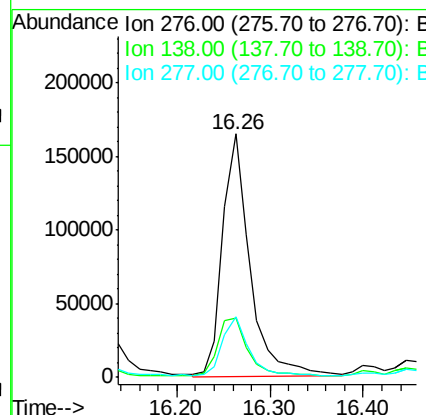
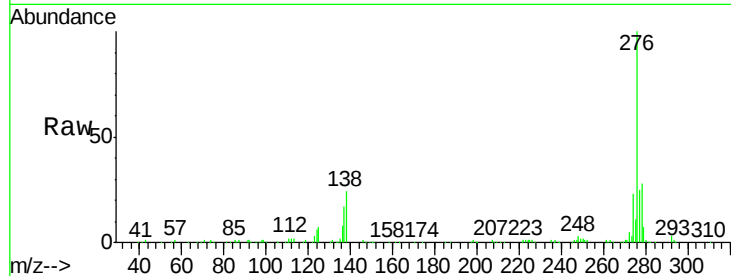
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 50.02 ng  
RT: 16.26 min Scan# 1284  
Delta R.T. -0.10 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 27.7  | 0.0        | 0.0#  |
| 277     | 24.0  | 0.0        | 0.0#  |

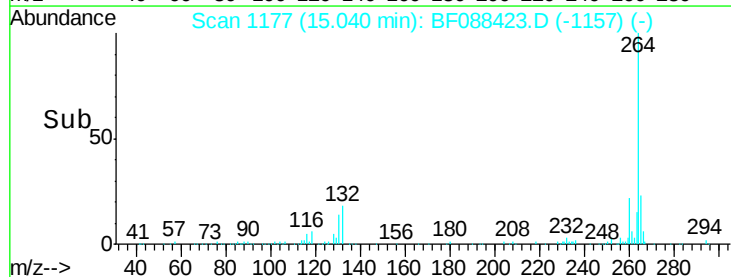
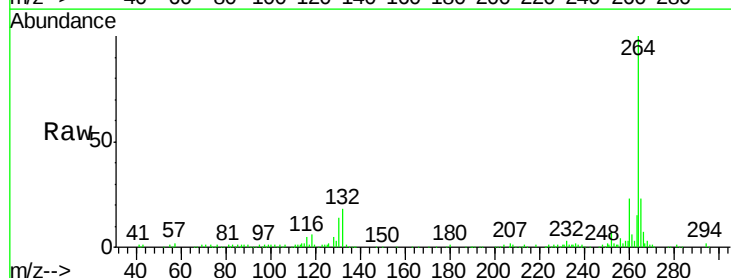
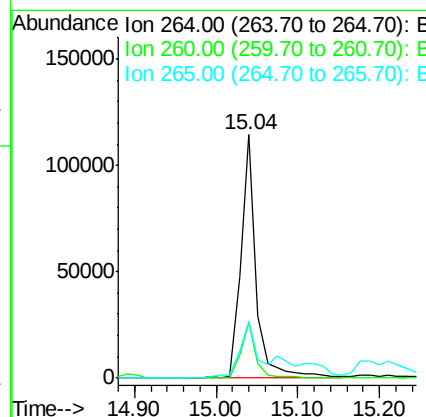
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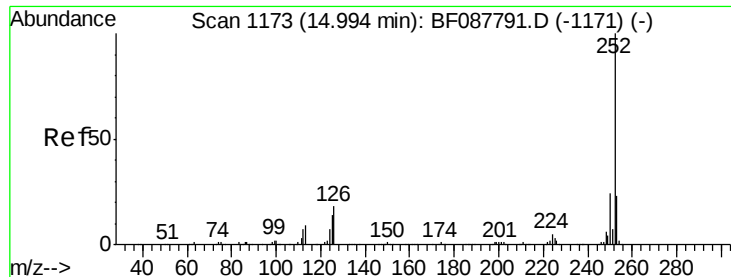
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#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.04 min Scan# 1177  
Delta R.T. -0.07 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 23.0  | 19.2       | 28.8  |
| 265     | 23.4  | 16.9       | 25.3  |





#87

Benzo(b)fluoranthene

Concen: 123.08 ng m

RT: 14.69 min Scan# 1146

Delta R.T. -0.06 min

Lab File: BF088423.D

Acq: 26 Jun 2016 17:30

Instrument :

BNA\_F

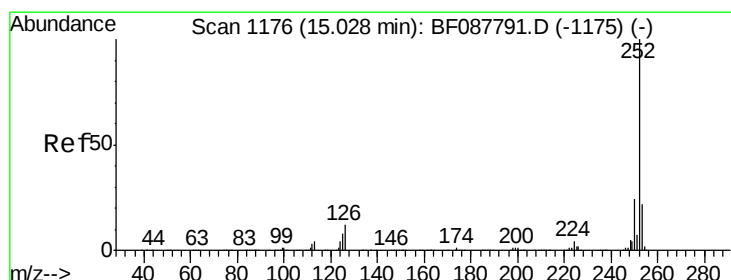
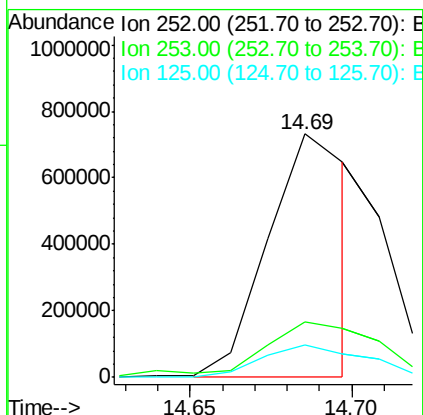
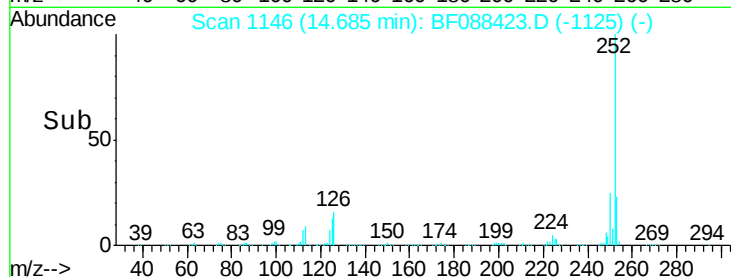
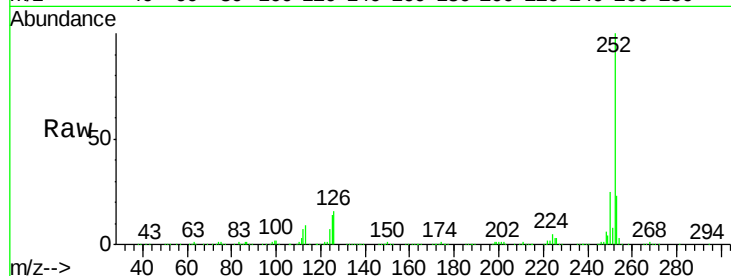
ClientSampled :

TP-15

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 252   | Resp: | 1285452 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 23.0  | 17.4  | 26.2    |
| 125       | 13.5  | 7.1   | 10.7#   |

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#88

Benzo(k)fluoranthene

Concen: 56.49 ng m

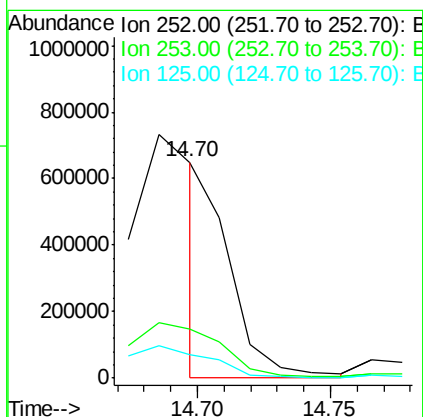
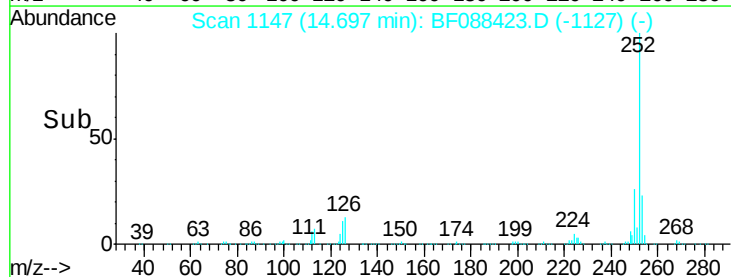
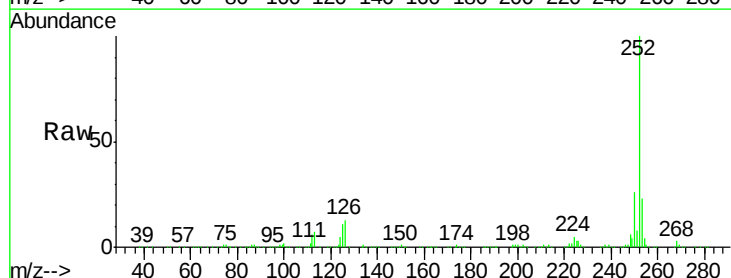
RT: 14.70 min Scan# 1147

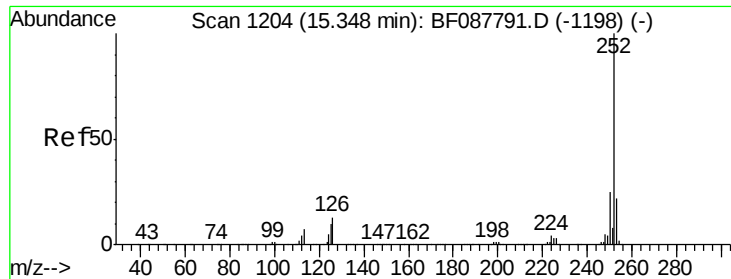
Delta R.T. -0.07 min

Lab File: BF088423.D

Acq: 26 Jun 2016 17:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 445026 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 18.0  | 27.0   |
| 125       | 11.2  | 11.2  | 16.8#  |





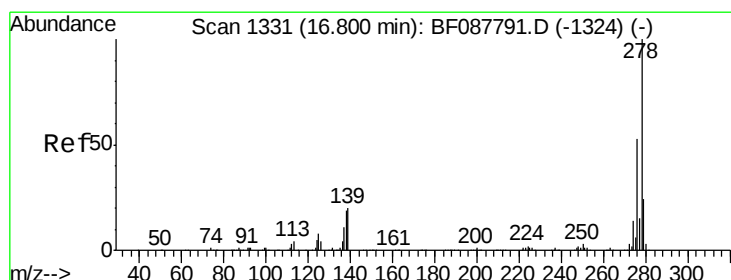
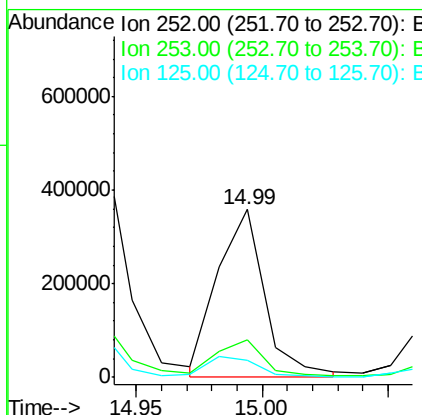
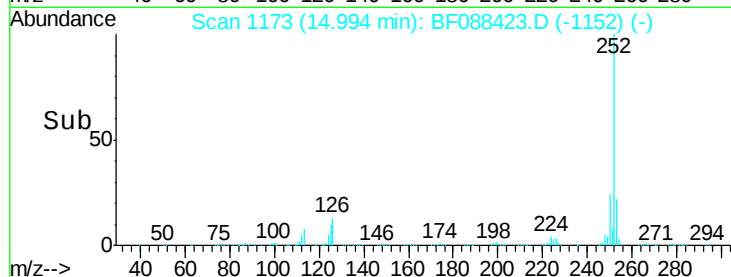
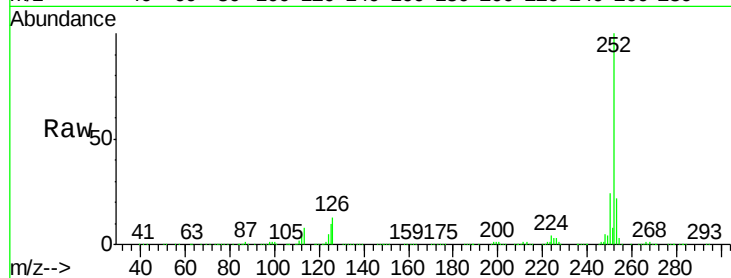
#89  
Benzo(a)pyrene  
Concen: 56.28 ng m  
RT: 14.99 min Scan# 1173  
Delta R.T. -0.06 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.9  | 26.9  |
| 125     | 10.2  | 12.5  | 18.7  |

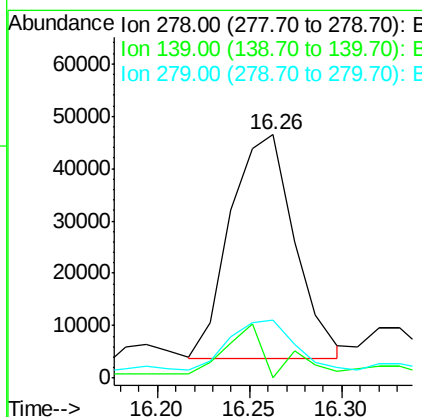
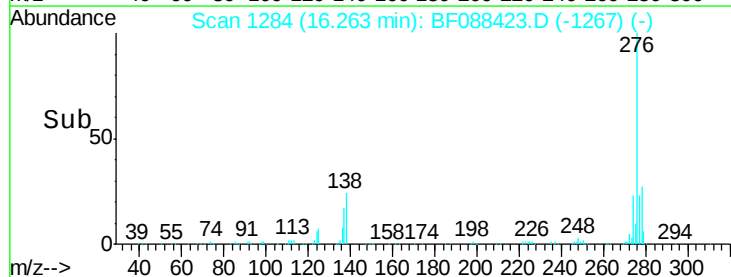
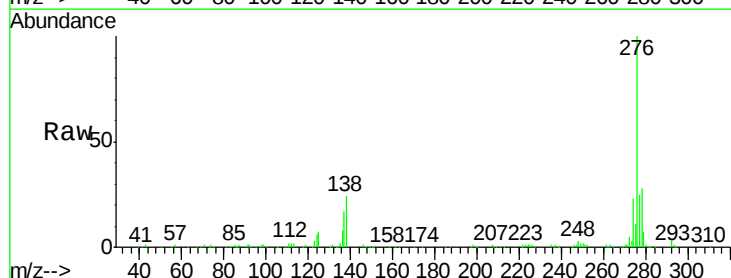
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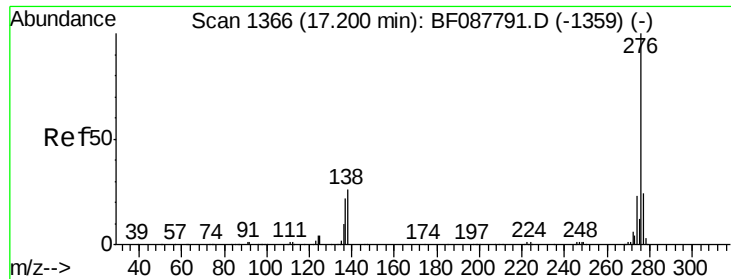
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#90  
Dibenzo(a,h)anthracene  
Concen: 13.24 ng m  
RT: 16.26 min Scan# 1284  
Delta R.T. -0.10 min  
Lab File: BF088423.D  
Acq: 26 Jun 2016 17:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 15.7  | 23.5  |
| 279     | 23.6  | 19.4  | 29.2  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 41.13 ng  
 RT: 16.63 min Scan# 1316  
 Delta R.T. -0.11 min  
 Lab File: BF088423.D  
 Acq: 26 Jun 2016 17:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 332012 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.4  | 18.9  | 28.3   |
| 138       | 24.9  | 21.4  | 32.2   |

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