

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\  
 Data File : BF079105.D  
 Acq On : 10 May 2015 3:05  
 Operator : TP/IZ  
 Sample : G2155-02  
 Misc :  
 ALS Vial : 64 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-46AS

Manual Integrations  
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 5/12/2015 3:45:48 PM

Quant Time: May 11 04:08:55 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 11 01:50:36 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.32  | 152  | 75900    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.89  | 136  | 295907   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 11.07 | 164  | 138372   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 12.91 | 188  | 250256   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 16.21 | 240  | 250819   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 17.92 | 264  | 261743   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 471726   | 106.98 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.88  | 99   | 598318   | 102.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.01  | 82   | 368531   | 71.58  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 12.06 | 330  | 157094   | 104.94 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 10.24 | 172  | 696187   | 70.10  | ng    | 0.00     |
| 78) Terphenyl-d14              | 14.91 | 244  | 728427   | 69.53  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate          | 10.74 | 163  | 45931    | 4.52   | ng    | 99       |
| 70) Phenanthrene               | 12.95 | 178  | 145861   | 10.42  | ng    | 98       |
| 71) Anthracene                 | 13.01 | 178  | 38581    | 2.81   | ng    | 99       |
| 74) Fluoranthene               | 14.42 | 202  | 293622   | 20.13  | ng    | 98       |
| 77) Pyrene                     | 14.71 | 202  | 276845   | 19.15  | ng    | 100      |
| 80) Benzo(a)anthracene         | 16.19 | 228  | 168749   | 12.29  | ng    | 96       |
| 82) Chrysene                   | 16.24 | 228  | 129631   | 9.81   | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 16.24 | 149  | 19707    | 2.06   | ng    | # 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 19.39 | 276  | 101145   | 6.01   | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 17.47 | 252  | 193945m  | 13.54  | ng    |          |
| 88) Benzo(k)fluoranthene       | 17.49 | 252  | 81149m   | 5.85   | ng    |          |
| 89) Benzo(a)pyrene             | 17.85 | 252  | 146358   | 11.09  | ng    | 97       |
| 91) Benzo(a,h,i)perylene       | 19.83 | 276  | 97960    | 6.97   | ng    | 97       |

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

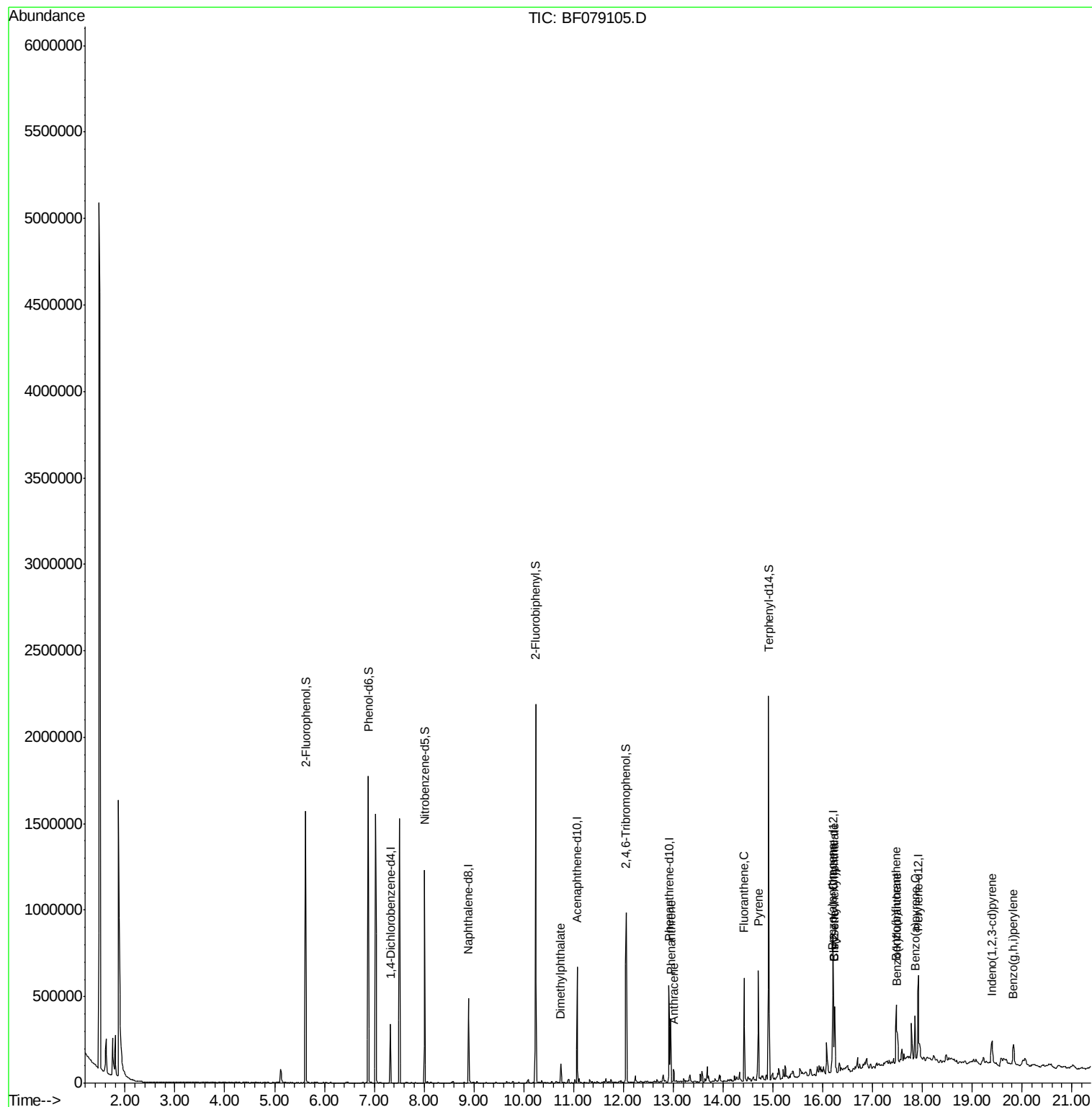
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\  
Data File : BF079105.D  
Acq On : 10 May 2015 3:05  
Operator : TP/IZ  
Sample : G2155-02  
Misc :  
ALS Vial : 64 Sample Multiplier: 1

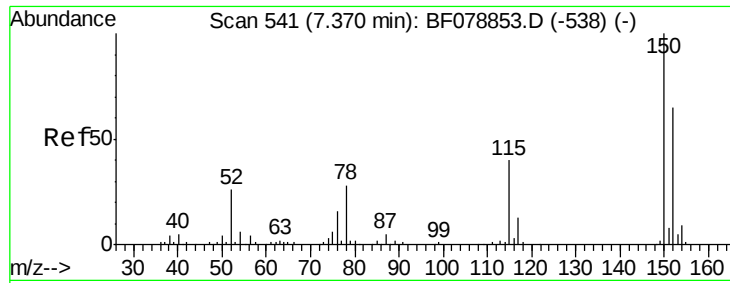
Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

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Quant Time: May 11 04:08:55 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 11 01:50:36 2015  
Response via : Initial Calibration





#1

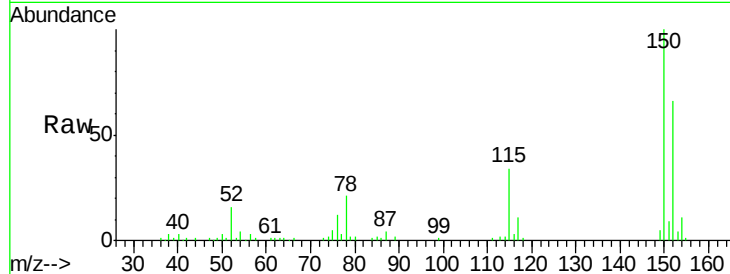
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.32 min Scan# 537  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

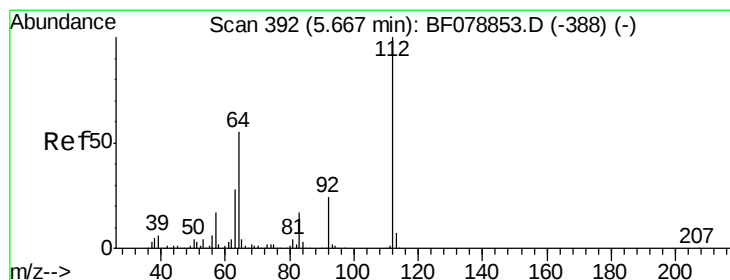
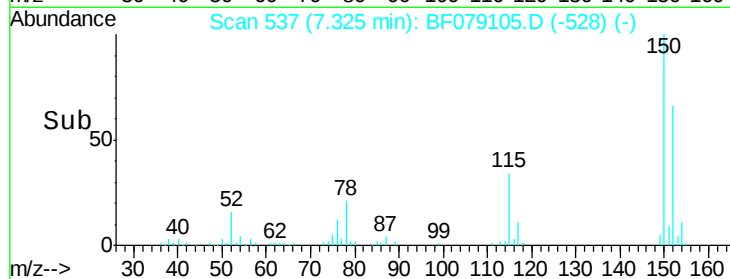
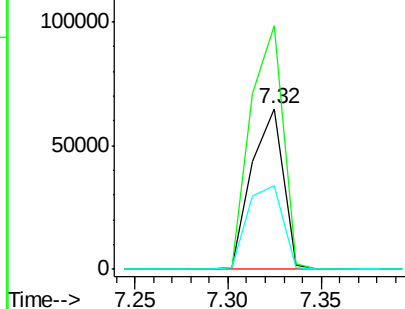
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.3 | 122.0 | 183.0 |
| 115     | 51.6  | 46.3  | 69.5  |

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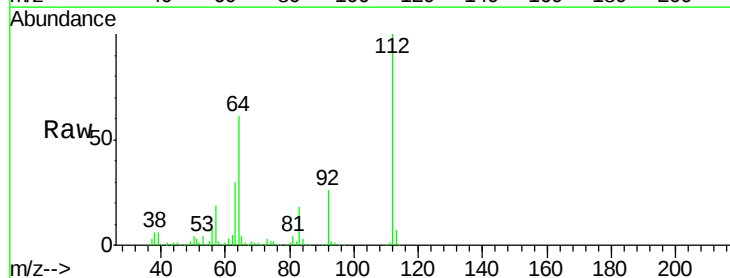
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



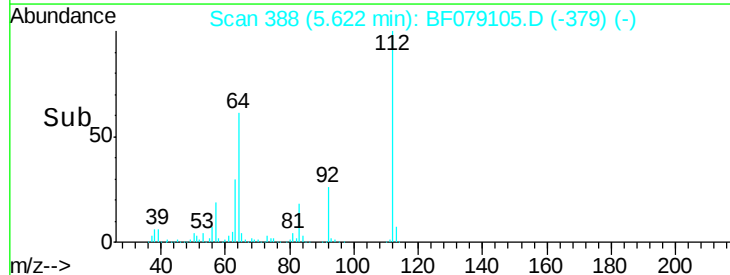
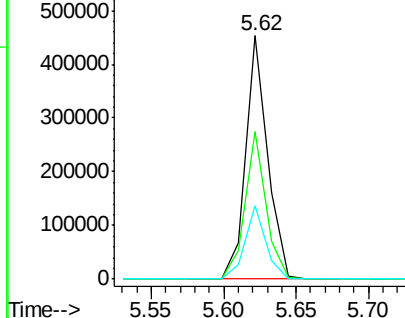
#5

2-Fluorophenol  
Concen: 106.98 ng  
RT: 5.62 min Scan# 388  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.7  | 53.5  | 80.3  |
| 63      | 30.1  | 27.5  | 41.3  |



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: 102.66 ng

RT: 6.88 min Scan# 498

Delta R.T. 0.00 min

Lab File: BF079105.D

Acq: 10 May 2015 3:05

Instrument :

BNA\_F

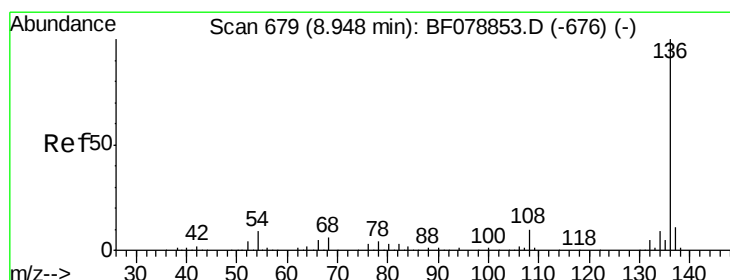
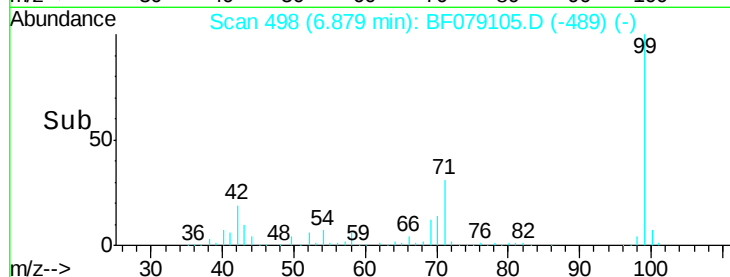
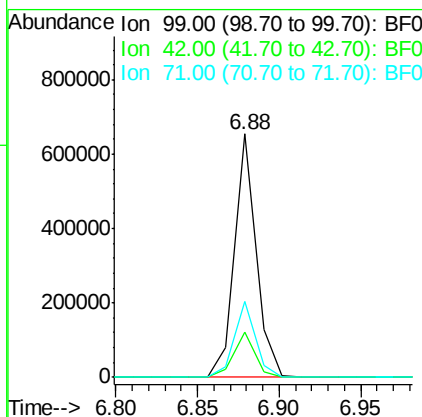
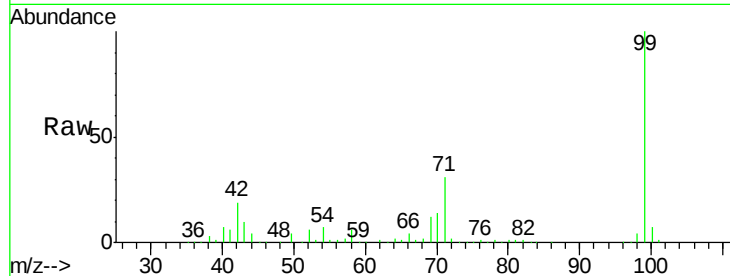
ClientSampleId :

SB-46AS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 598318 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 18.6  | 12.8  | 19.2   |
| 71        | 31.4  | 23.4  | 35.2   |

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#21

Naphthalene-d8

Concen: 20.00 ng

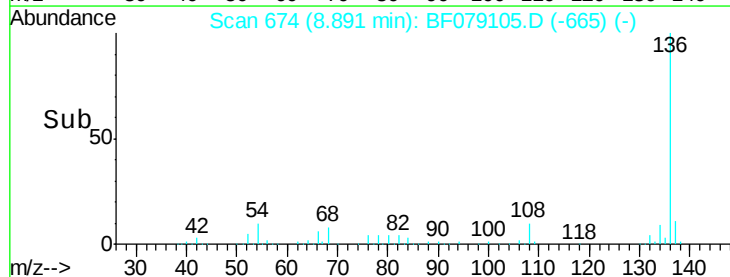
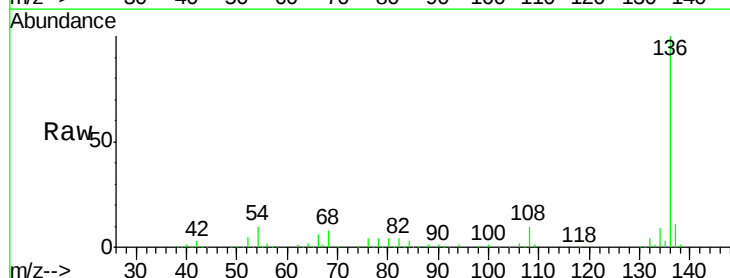
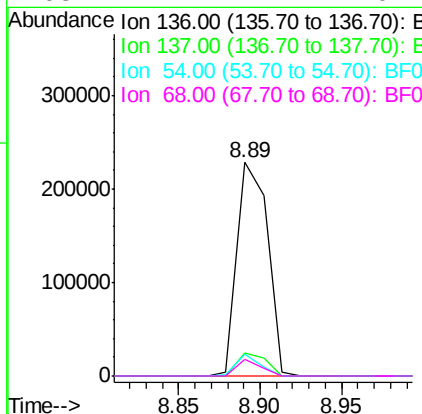
RT: 8.89 min Scan# 674

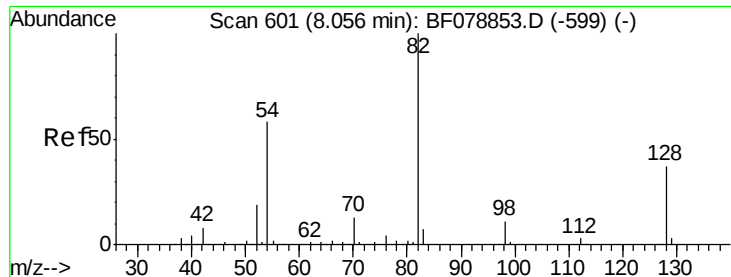
Delta R.T. 0.00 min

Lab File: BF079105.D

Acq: 10 May 2015 3:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 295907 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 8.7   | 13.1   |
| 54        | 10.4  | 5.8   | 8.8#   |
| 68        | 7.7   | 4.2   | 6.4#   |





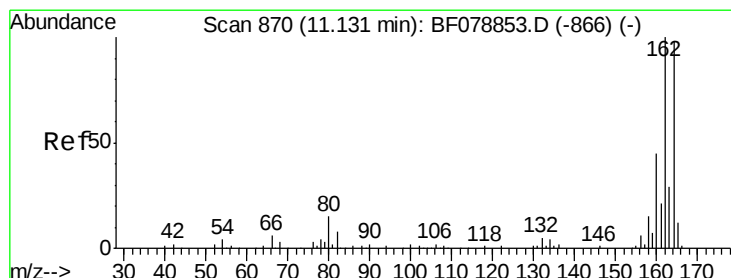
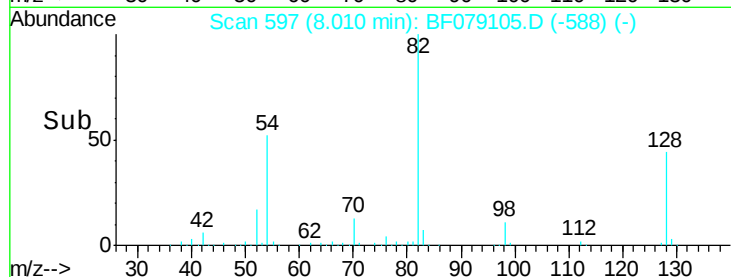
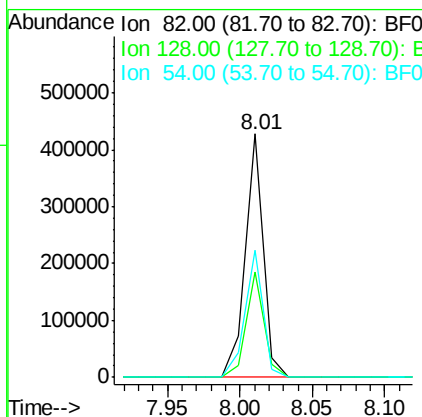
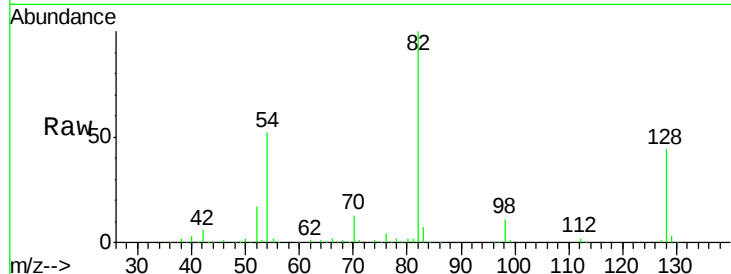
#23  
 Nitrobenzene-d5  
 Concen: 71.58 ng  
 RT: 8.01 min Scan# 597  
 Delta R.T. 0.00 min  
 Lab File: BF079105.D  
 Acq: 10 May 2015 3:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-46AS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 43.5  | 30.0       | 45.0  |
| 54      | 52.0  | 46.4       | 69.6  |

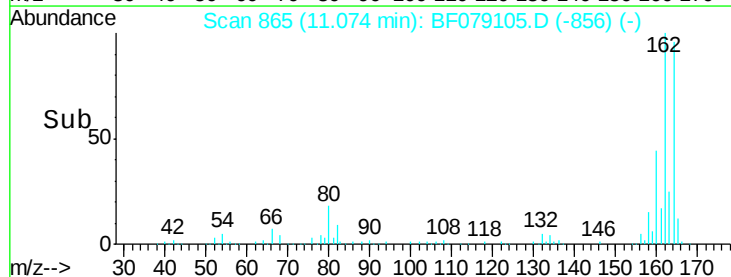
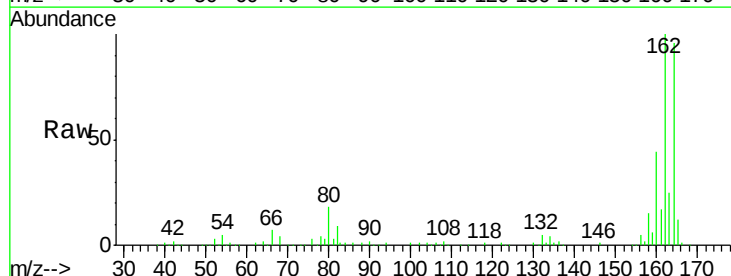
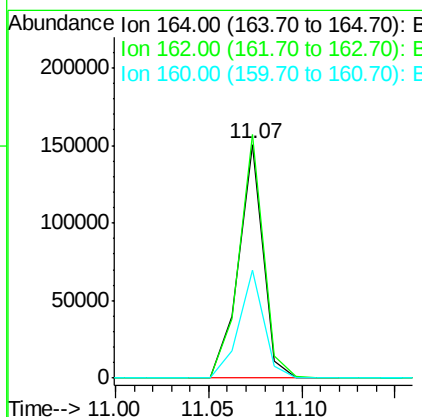
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.07 min Scan# 865  
 Delta R.T. 0.00 min  
 Lab File: BF079105.D  
 Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 164     | 100   |            |       |
| 162     | 104.2 | 82.7       | 124.1 |
| 160     | 46.1  | 35.8       | 53.8  |





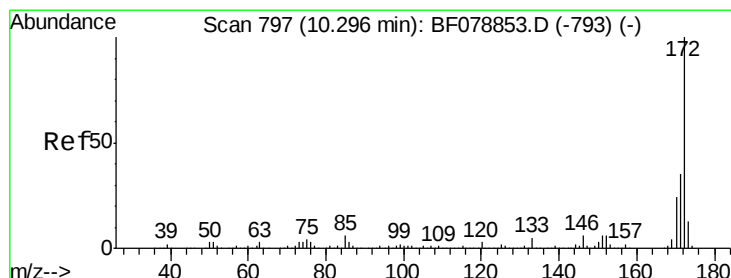
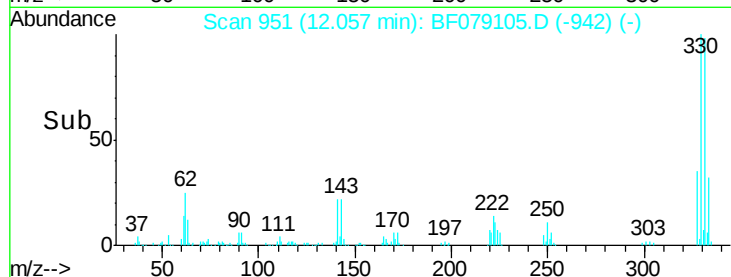
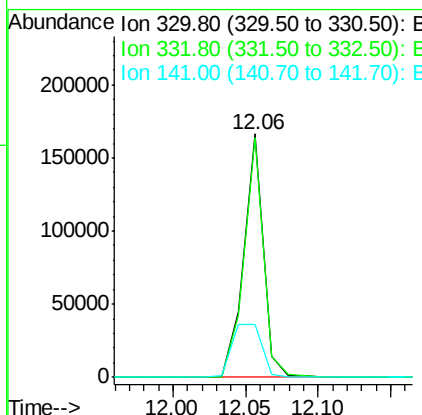
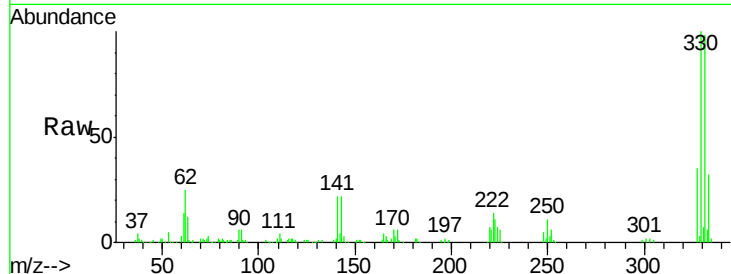
#41  
 2,4,6-Tribromophenol  
 Concen: 104.94 ng  
 RT: 12.06 min Scan# 951  
 Delta R.T. 0.00 min  
 Lab File: BF079105.D  
 Acq: 10 May 2015 3:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-46AS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 157094 |       |       |
| 332     | 97.7  | 0.0    | 0.0   | 0.0   |
| 141     | 33.1  | 0.0    | 0.0   | 0.0   |

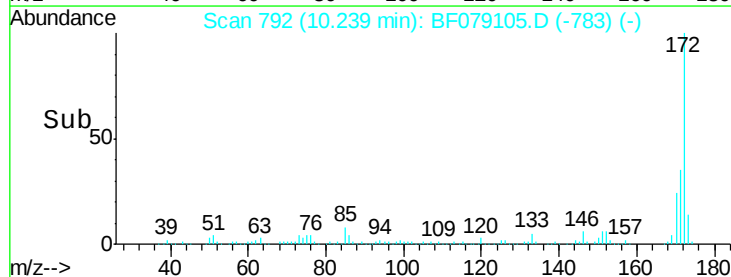
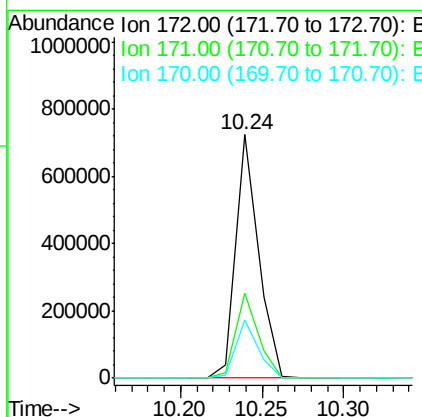
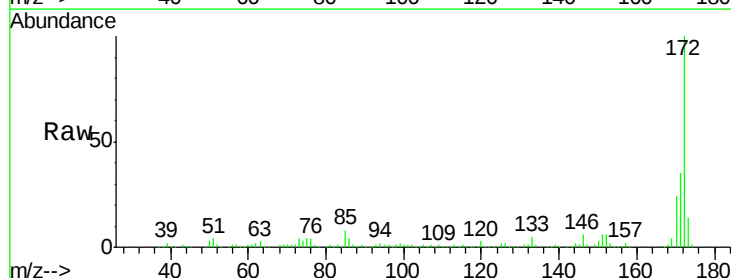
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#44  
 2-Fluorobiphenyl  
 Concen: 70.10 ng  
 RT: 10.24 min Scan# 792  
 Delta R.T. 0.00 min  
 Lab File: BF079105.D  
 Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 696187 |       |       |
| 171     | 35.0  | 27.9   | 41.9  |       |
| 170     | 23.9  | 19.4   | 29.0  |       |





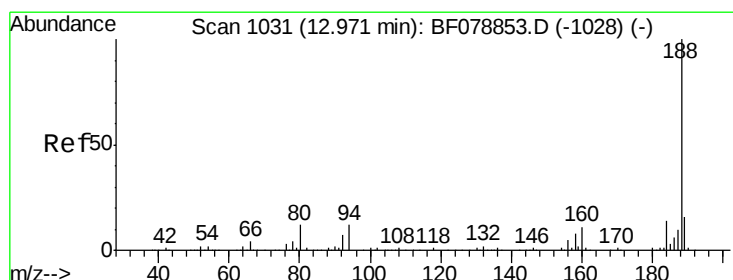
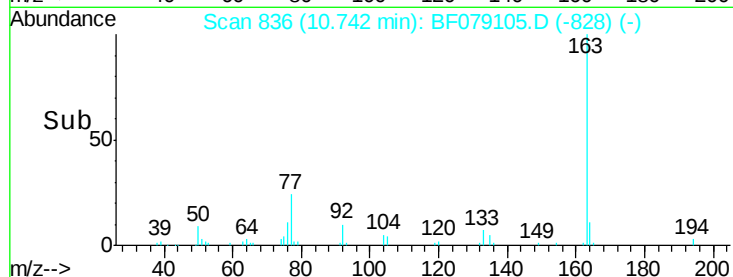
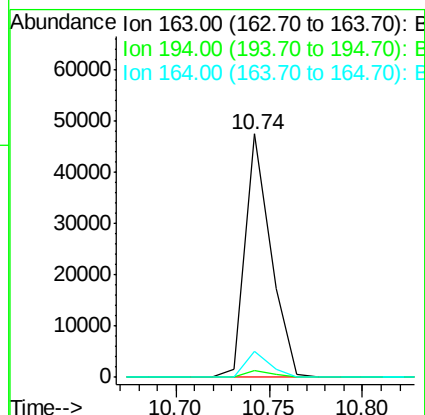
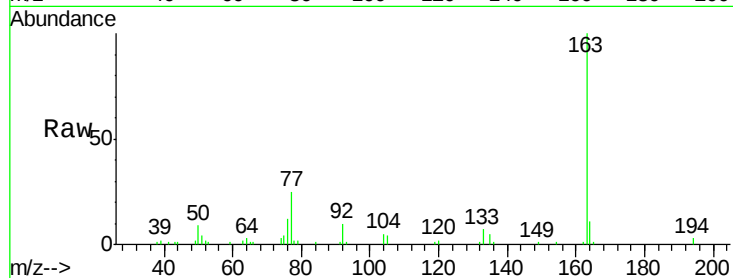
#49  
Dimethylphthalate  
Concen: 4.52 ng  
RT: 10.74 min Scan# 836  
Delta R.T. -0.01 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 2.7   | 2.6   | 4.0   |
| 164     | 10.5  | 8.1   | 12.1  |

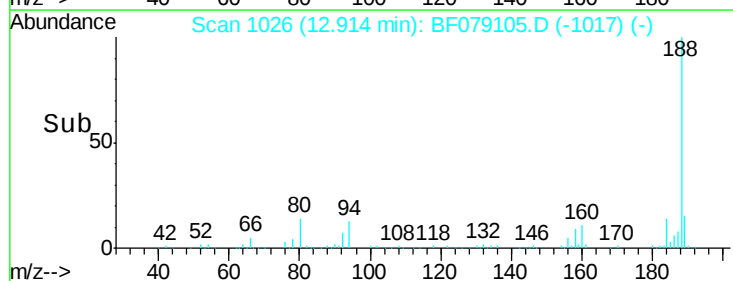
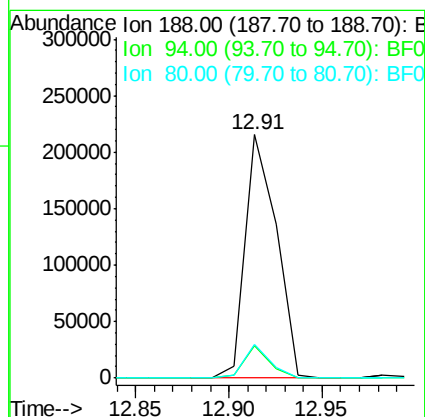
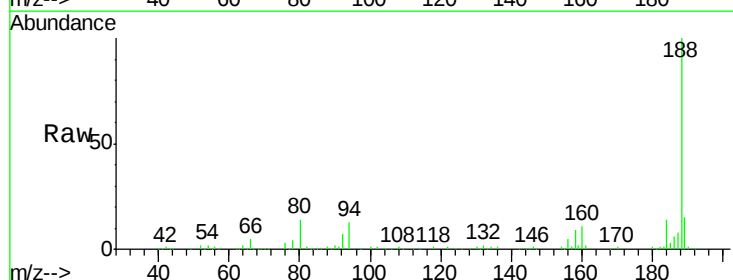
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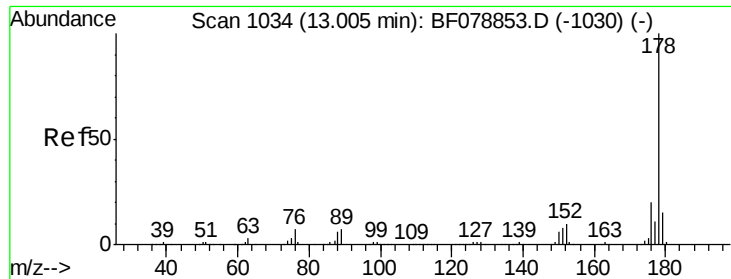
apatel  
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.91 min Scan# 1026  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 13.1  | 8.2   | 12.2# |
| 80      | 13.9  | 8.9   | 13.3# |





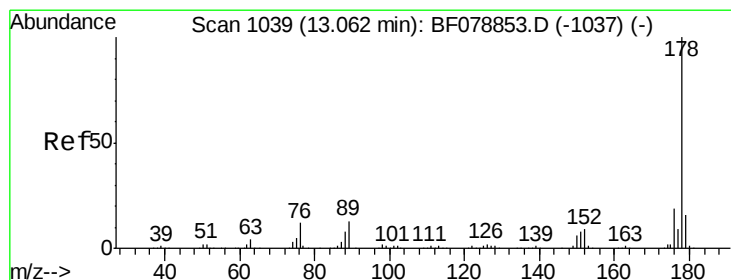
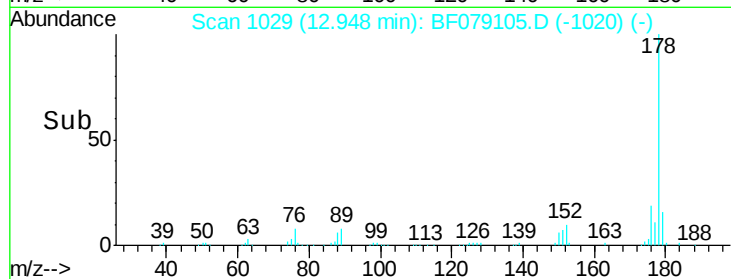
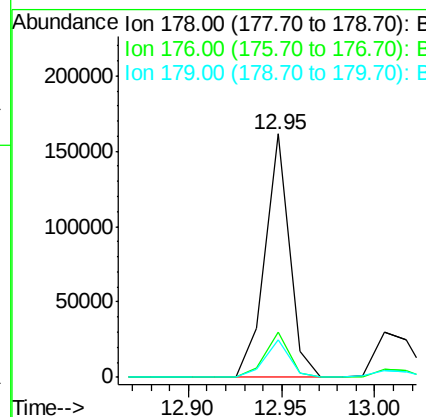
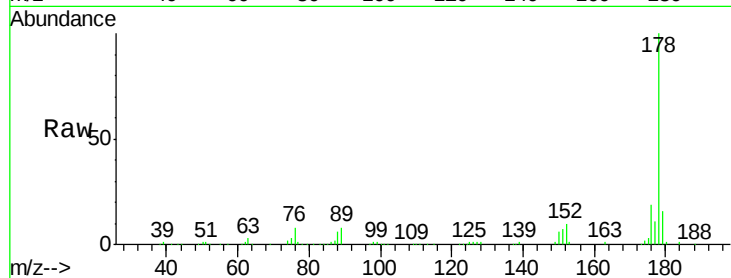
#70  
Phenanthrene  
Concen: 10.42 ng  
RT: 12.95 min Scan# 1029  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 15.8  | 23.8  |
| 179     | 15.5  | 12.5  | 18.7  |

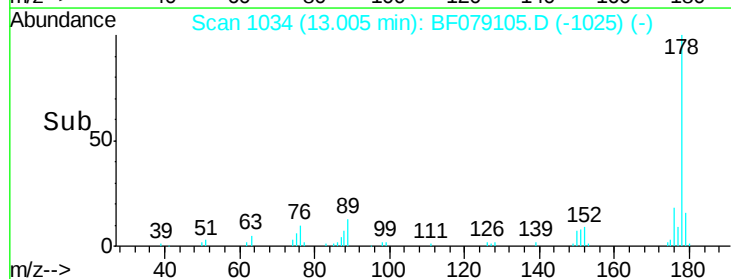
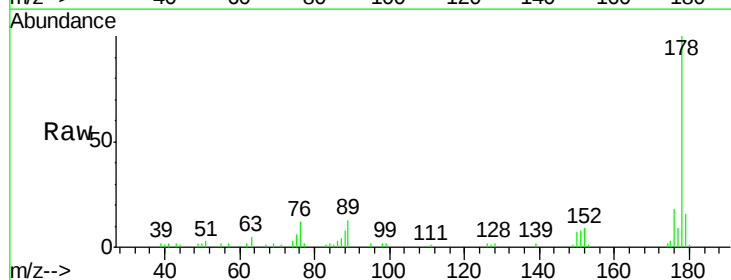
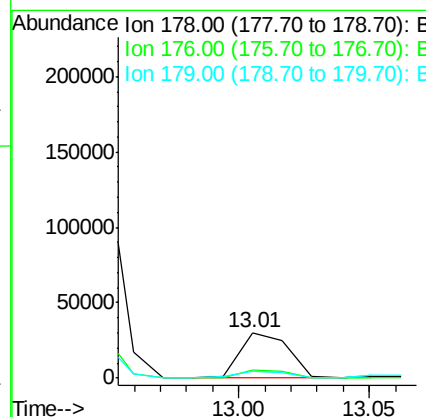
Manual Integrations  
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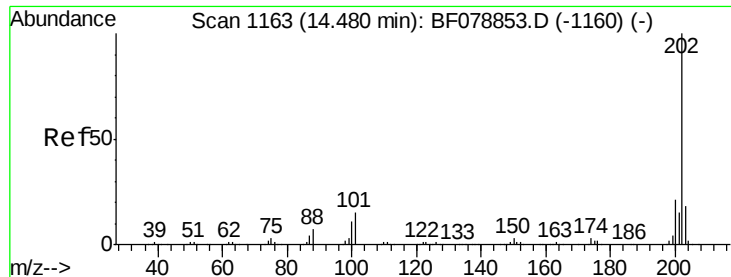
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#71  
Anthracene  
Concen: 2.81 ng  
RT: 13.01 min Scan# 1034  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 15.5  | 23.3  |
| 179     | 15.8  | 12.7  | 19.1  |





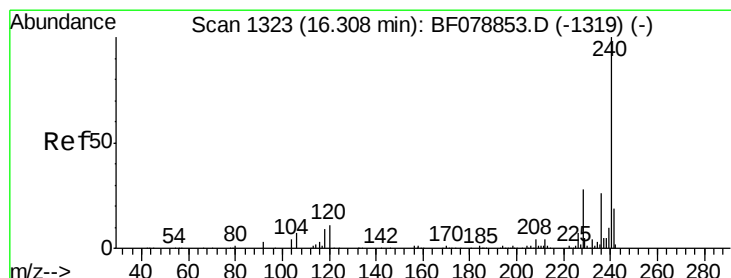
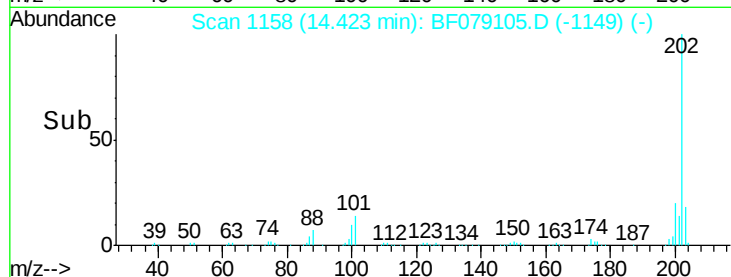
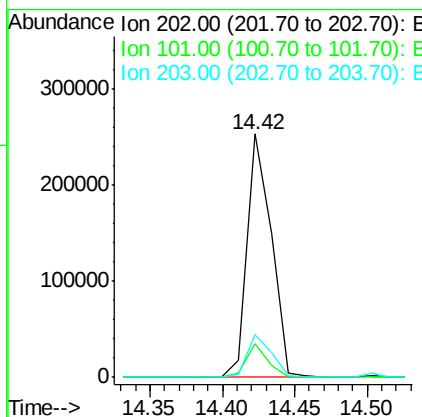
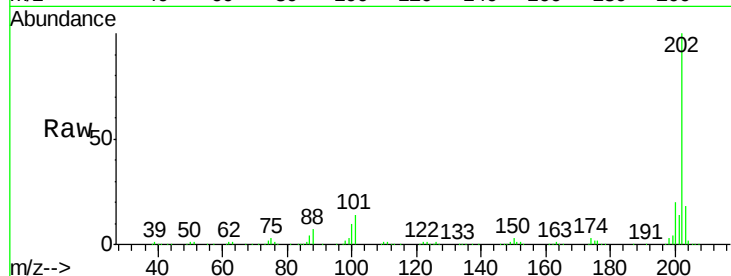
#74  
Fluoranthene  
Concen: 20.13 ng  
RT: 14.42 min Scan# 1158  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.9  | 0.0        | 34.6  |
| 203     | 17.6  | 0.0        | 38.4  |

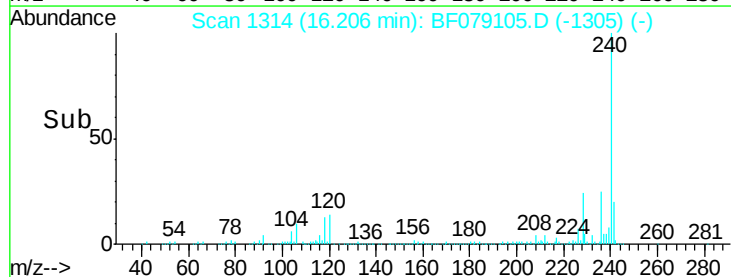
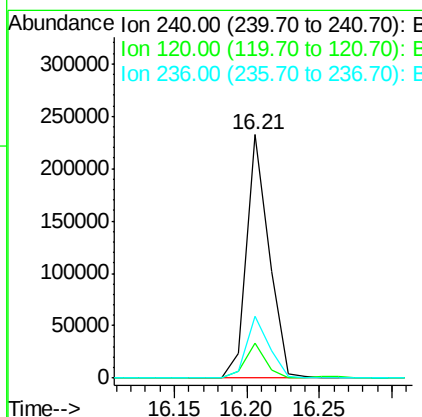
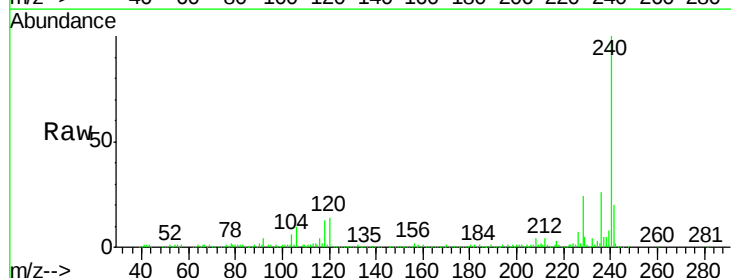
Manual Integrations  
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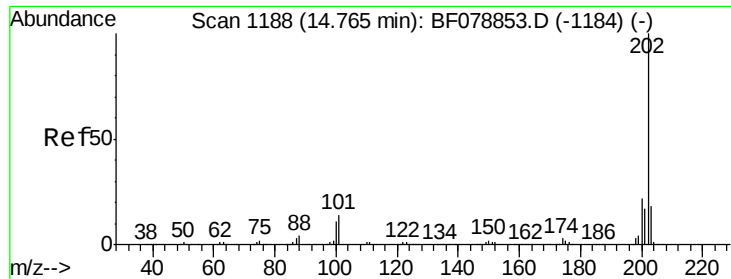
apatel  
5/12/2015 3:45:48 PM



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 16.21 min Scan# 1314  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 14.4  | 9.7        | 14.5  |
| 236     | 25.5  | 20.2       | 30.4  |





#77

Pvrene

Concen: 19.15 ng

RT: 14.71 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BF079105.D

Acq: 10 May 2015 3:05

Instrument :

BNA\_F

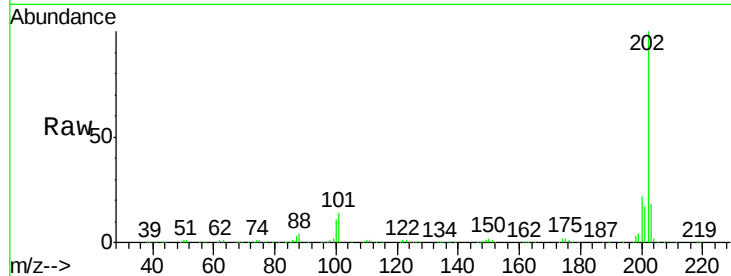
ClientSampleId :

SB-46AS

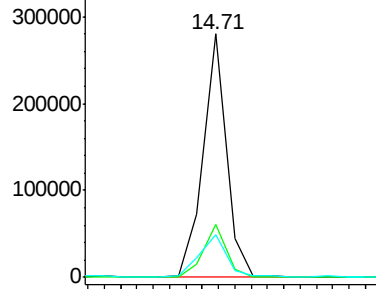
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 276845 |       |       |
| 200     | 21.7 | 17.5  | 26.3   |       |       |
| 203     | 17.7 | 13.9  | 20.9   |       |       |

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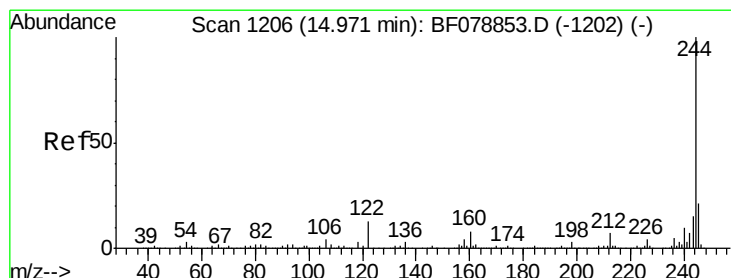
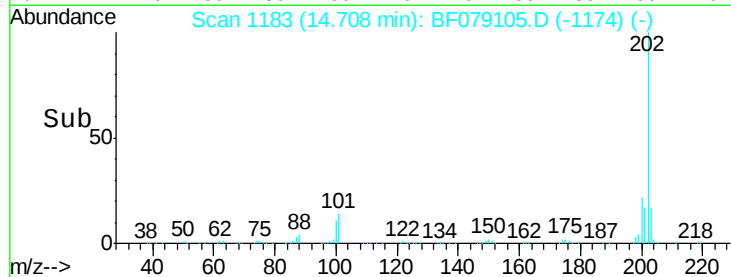
apatel  
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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 69.53 ng

RT: 14.91 min Scan# 1201

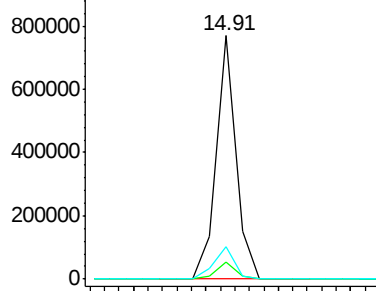
Delta R.T. 0.00 min

Lab File: BF079105.D

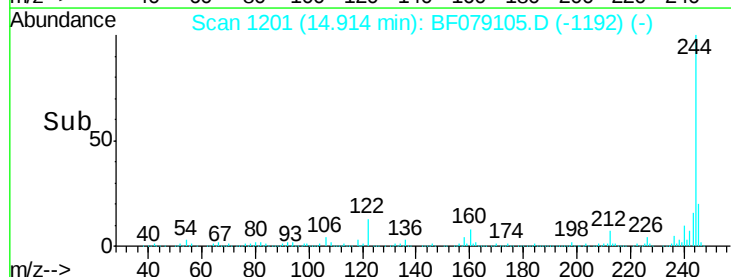
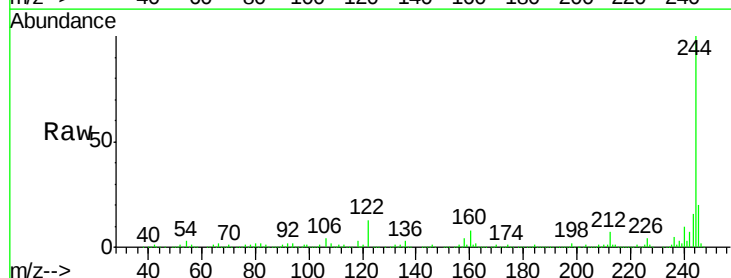
Acq: 10 May 2015 3:05

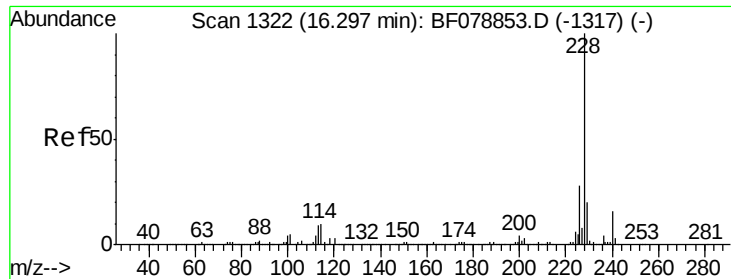
| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 244     | 100  |       | 728427 |       |       |
| 212     | 6.9  | 5.6   | 8.4    |       |       |
| 122     | 13.1 | 10.3  | 15.5   |       |       |

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



Time-->





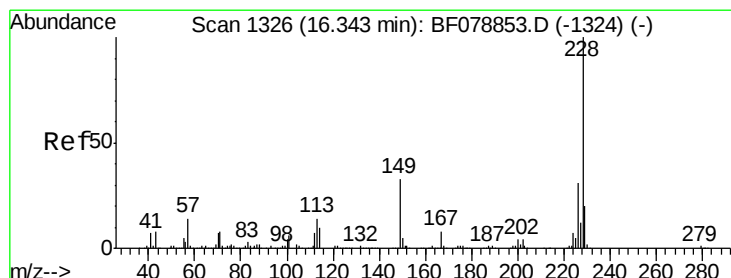
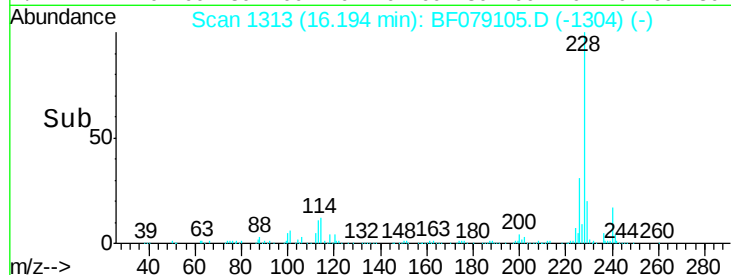
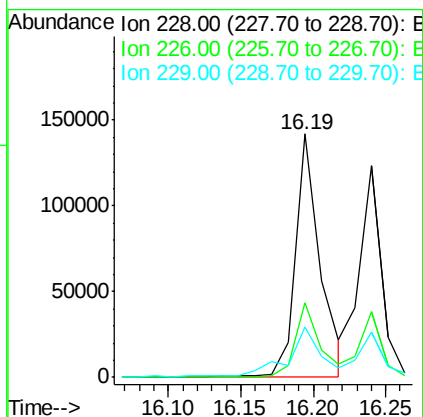
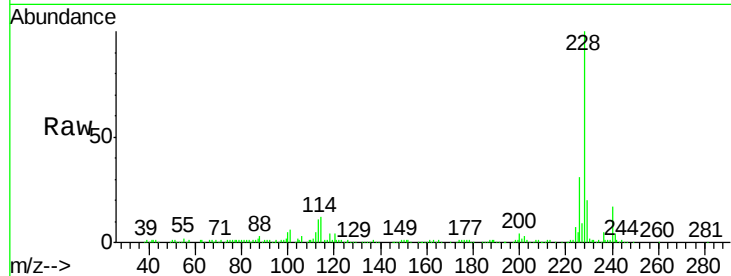
#80  
Benzo(a)anthracene  
Concen: 12.29 ng  
RT: 16.19 min Scan# 1313  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 22.6  | 33.8  |
| 229     | 20.5  | 15.9  | 23.9  |

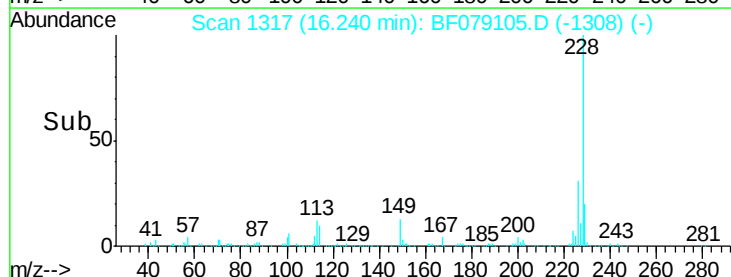
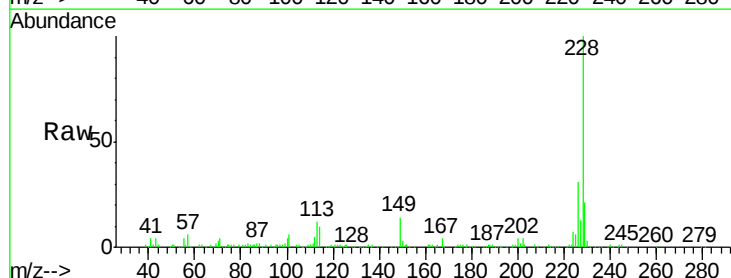
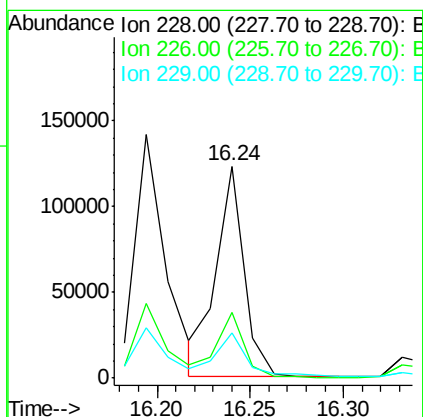
Manual Integrations  
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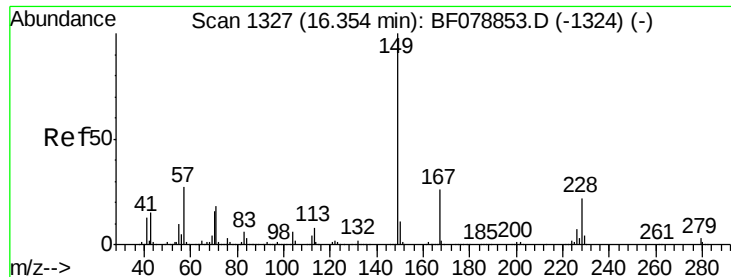
apatel  
5/12/2015 3:45:48 PM



#82  
Chrysene  
Concen: 9.81 ng  
RT: 16.24 min Scan# 1317  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.2  | 24.9  | 37.3  |
| 229     | 21.1  | 16.0  | 24.0  |





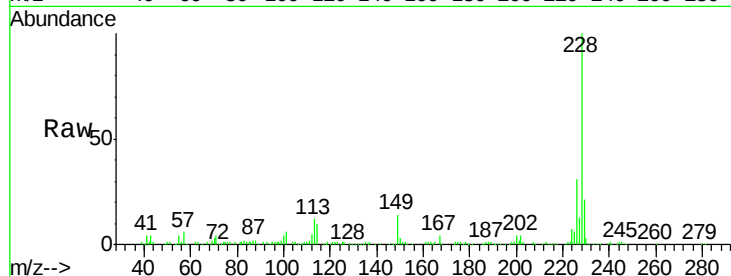
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.06 ng  
 RT: 16.24 min Scan# 1317  
 Delta R.T. 0.00 min  
 Lab File: BF079105.D  
 Acq: 10 May 2015 3:05

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-46AS

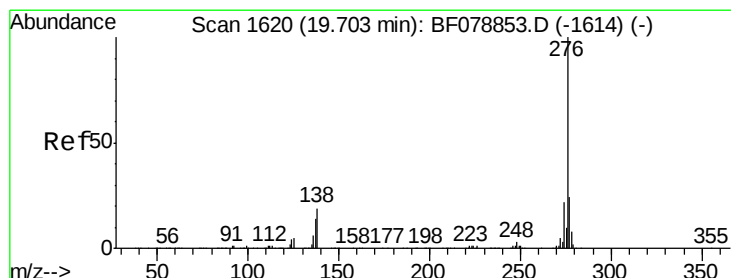
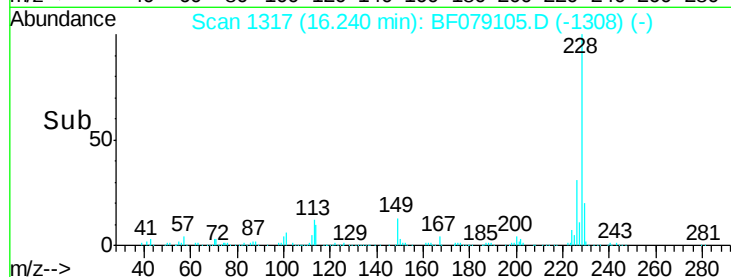
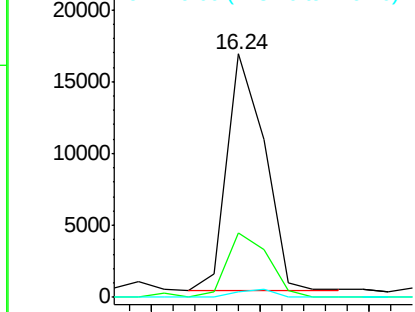
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 149     | 100   |            |       |
| 167     | 26.4  | 21.8       | 32.8  |
| 279     | 2.4   | 2.9        | 4.3#  |

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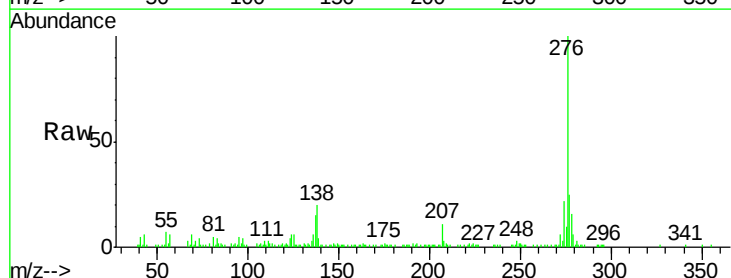


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

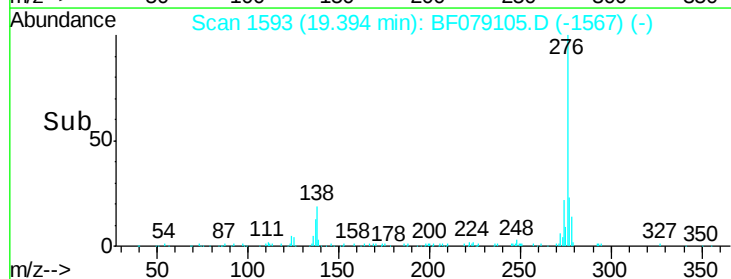
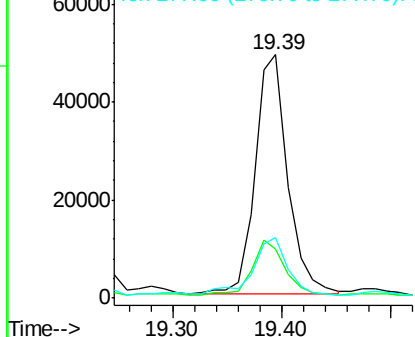


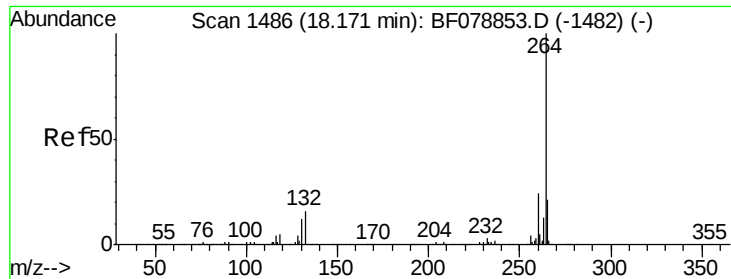
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.01 ng  
 RT: 19.39 min Scan# 1593  
 Delta R.T. 0.00 min  
 Lab File: BF079105.D  
 Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 23.4  | 0.0        | 0.0#  |
| 277     | 28.7  | 0.0        | 0.0#  |



Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E





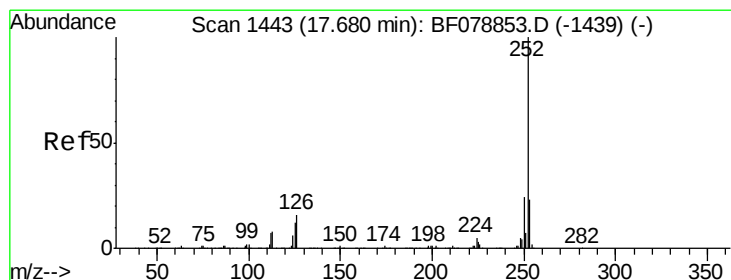
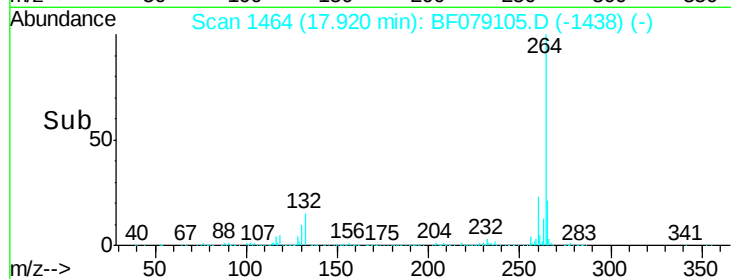
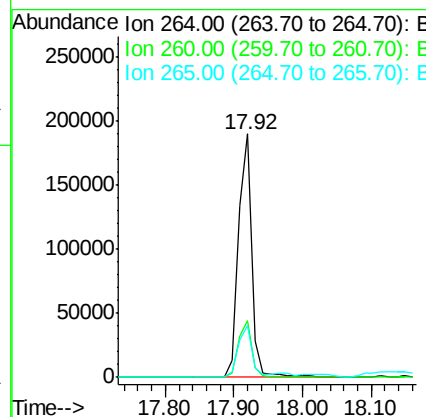
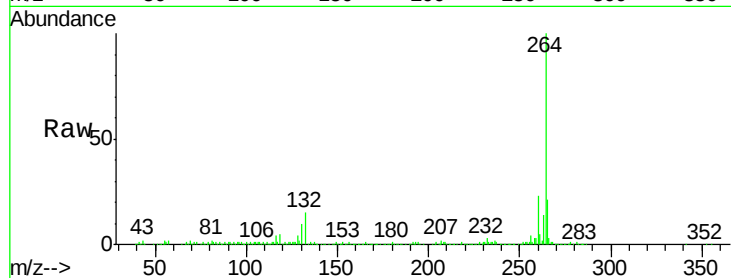
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 17.92 min Scan# 1464  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.4  | 29.2  |
| 265     | 21.3  | 18.3  | 27.5  |

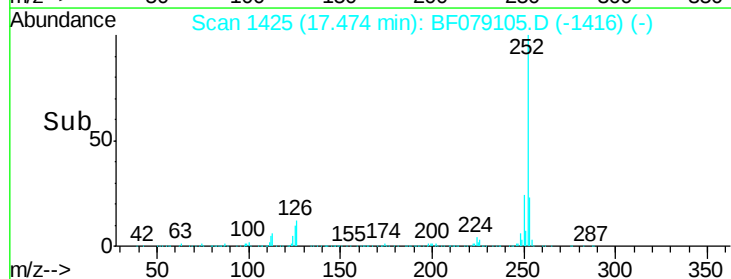
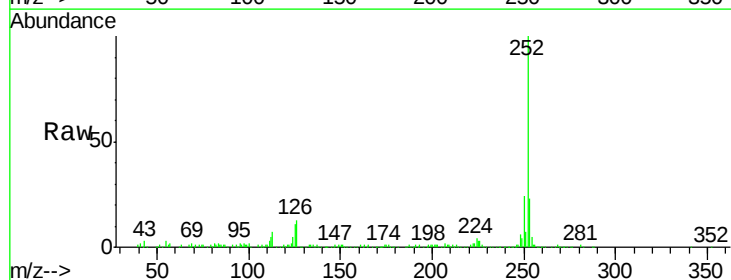
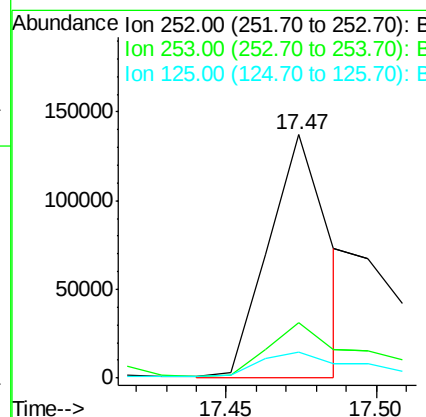
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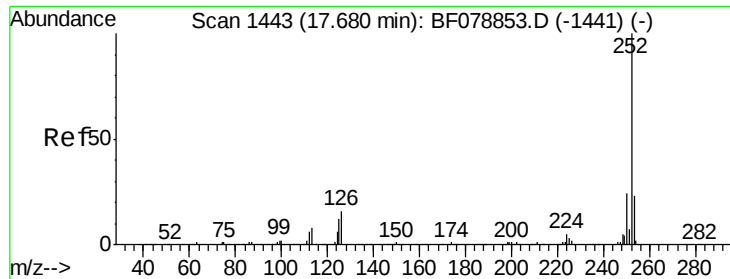
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#87  
Benzo(b)fluoranthene  
Concen: 13.54 ng m  
RT: 17.47 min Scan# 1425  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.7  | 26.5  |
| 125     | 10.7  | 9.5   | 14.3  |





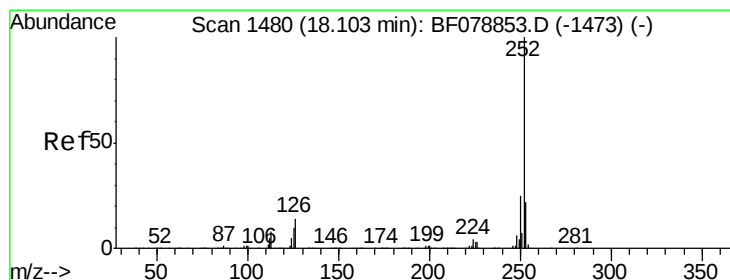
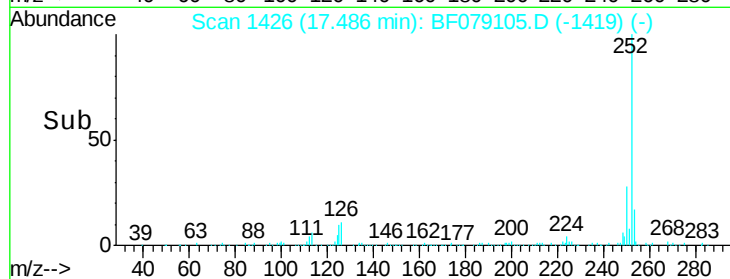
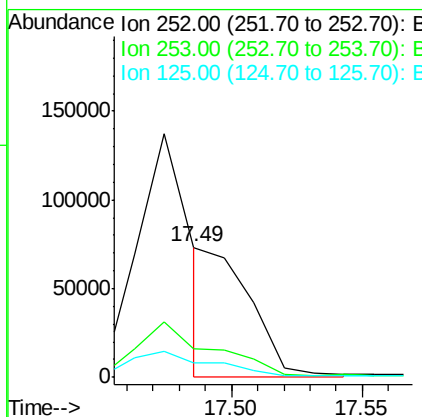
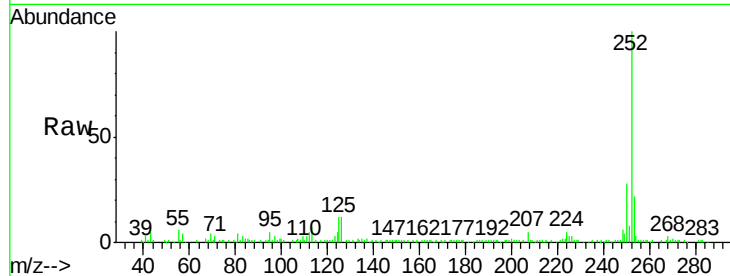
#88  
Benzo(k)fluoranthene  
Concen: 5.85 ng m  
RT: 17.49 min Scan# 1426  
Delta R.T. -0.02 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.7  | 18.1  | 27.1  |
| 125     | 11.5  | 10.0  | 15.0  |

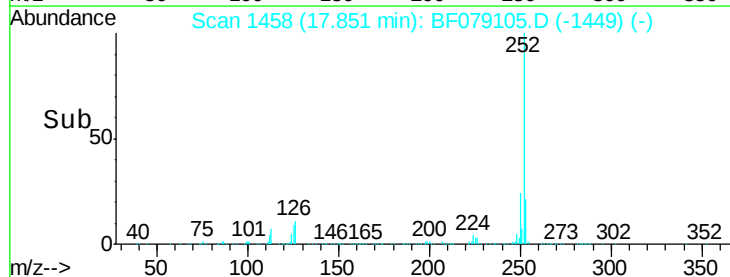
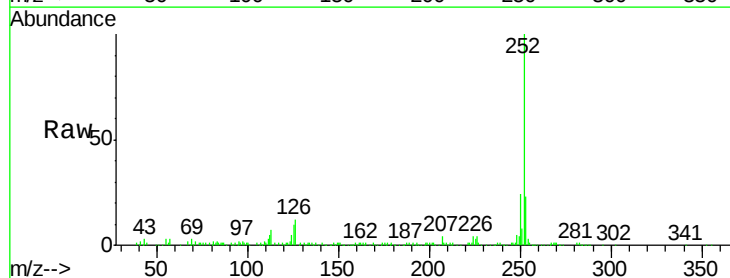
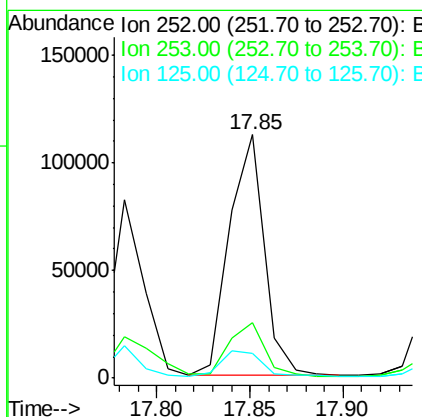
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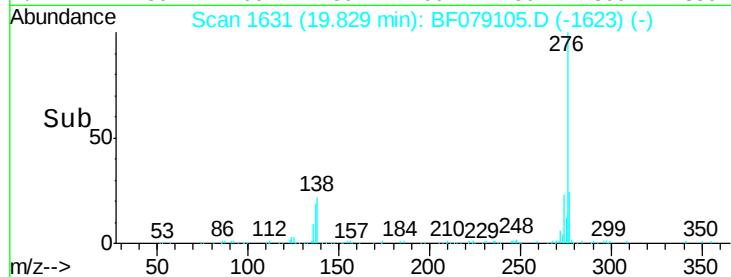
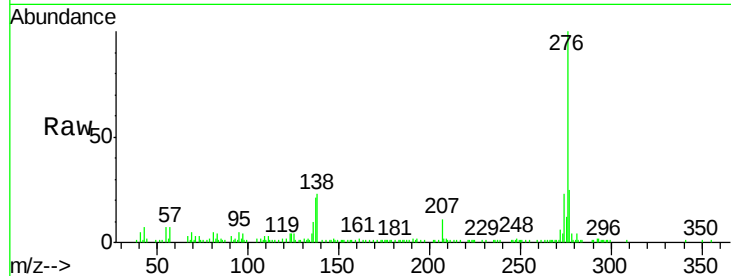
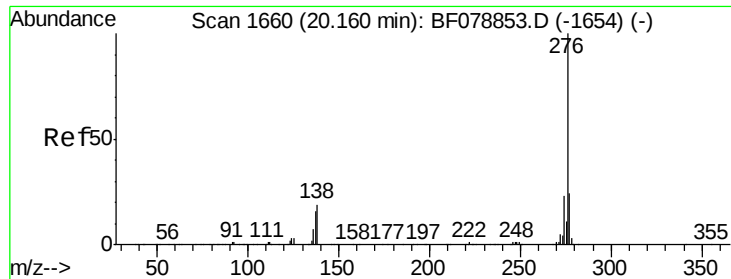
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#89  
Benzo(a)pyrene  
Concen: 11.09 ng  
RT: 17.85 min Scan# 1458  
Delta R.T. 0.00 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.3  | 25.9  |
| 125     | 9.9   | 7.0   | 10.6  |





#91  
Benzo(a,h,i)perylene  
Concen: 6.97 ng  
RT: 19.83 min Scan# 1631  
Delta R.T. -0.01 min  
Lab File: BF079105.D  
Acq: 10 May 2015 3:05

Instrument :  
BNA\_F  
ClientSampleId :  
SB-46AS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.0  | 18.6  | 28.0  |
| 138     | 22.9  | 17.4  | 26.0  |

Manual Integrations  
APPROVED

apatel  
5/12/2015 3:45:48 PM

