

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030415\  
 Data File : BF077608.D  
 Acq On : 5 Mar 2015 6:24  
 Operator : TP/IZ  
 Sample : G1424-07  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB20

Manual Integrations  
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 3/5/2015 2:11:30 PM

Quant Time: Mar 05 09:28:09 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 04 13:27:09 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.22  | 152  | 61333    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.80  | 136  | 256417   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.97 | 164  | 125954   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.81 | 188  | 245293   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 16.10 | 240  | 280545   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 17.80 | 264  | 277966   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.52  | 112  | 374087   | 101.82 | ng    | 0.00     |
| 7) Phenol-d6                | 6.79  | 99   | 450899   | 95.46  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.91  | 82   | 278442   | 67.53  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.95 | 330  | 116048   | 95.69  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.15 | 172  | 561977   | 69.57  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.81 | 244  | 660573   | 55.05  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 10.65 | 163  | 29185    | 3.30   | ng    | 99       |
| 70) Phenanthrene            | 12.84 | 178  | 125635   | 8.84   | ng    | 99       |
| 71) Anthracene              | 12.90 | 178  | 34108m   | 2.42   | ng    |          |
| 74) Fluoranthene            | 14.32 | 202  | 157693   | 10.15  | ng    | 99       |
| 77) Pyrene                  | 14.60 | 202  | 203046   | 11.83  | ng    | 99       |
| 80) Benzo(a)anthracene      | 16.08 | 228  | 105531   | 6.42   | ng    | 96       |
| 82) Chrysene                | 16.12 | 228  | 107947   | 6.99   | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 19.22 | 276  | 59545m   | 3.38   | ng    |          |
| 87) Benzo(b)fluoranthene    | 17.37 | 252  | 103651m  | 6.41   | ng    |          |
| 88) Benzo(k)fluoranthene    | 17.39 | 252  | 41708m   | 2.63   | ng    |          |
| 89) Benzo(a)pyrene          | 17.74 | 252  | 95968    | 6.23   | ng    | # 94     |
| 91) Benzo(g,h,i)perylene    | 19.65 | 276  | 65800    | 4.44   | ng    | 98       |

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

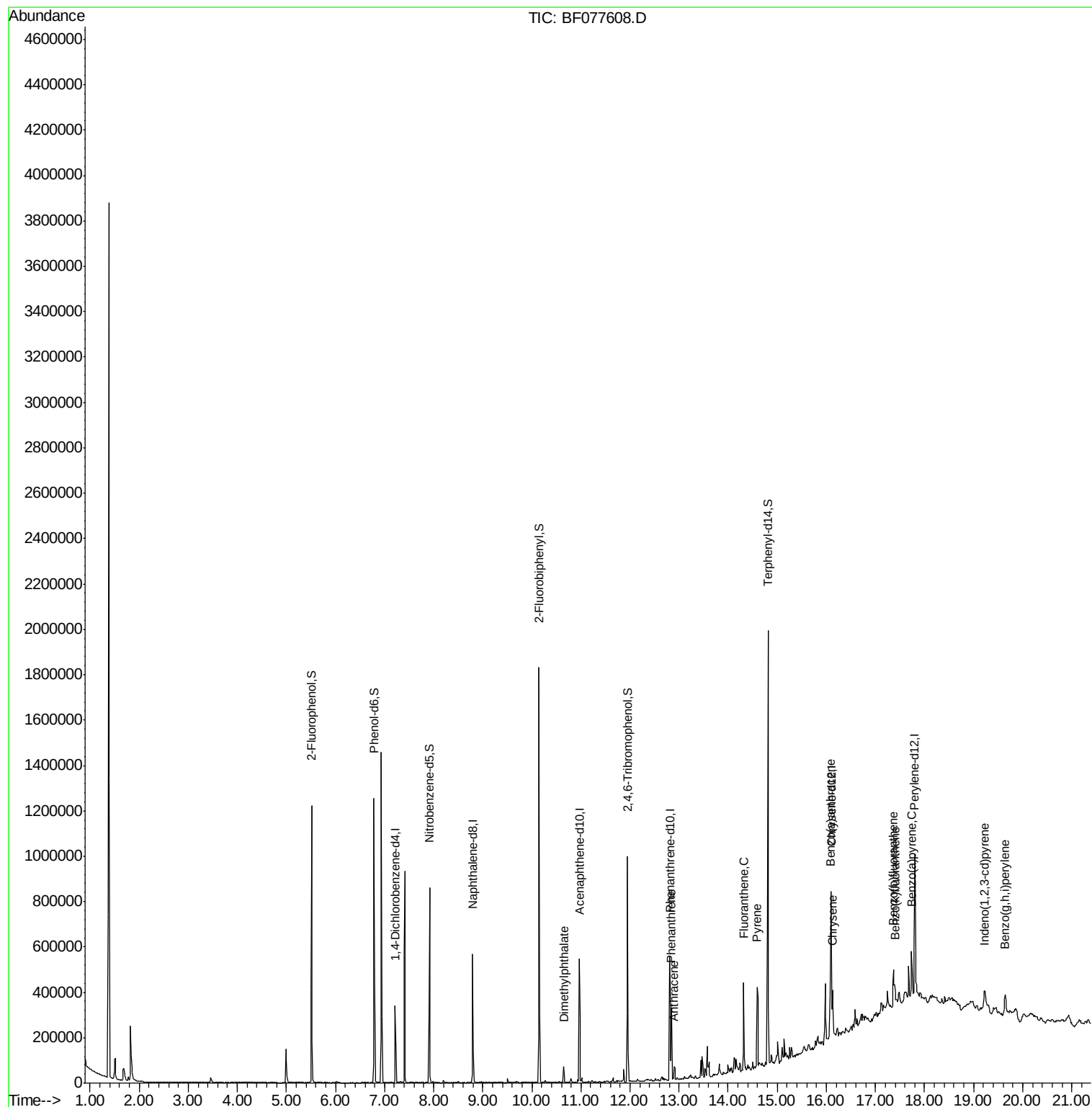
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF030415\  
Data File : BF077608.D  
Acq On : 5 Mar 2015 6:24  
Operator : TP/IZ  
Sample : G1424-07  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

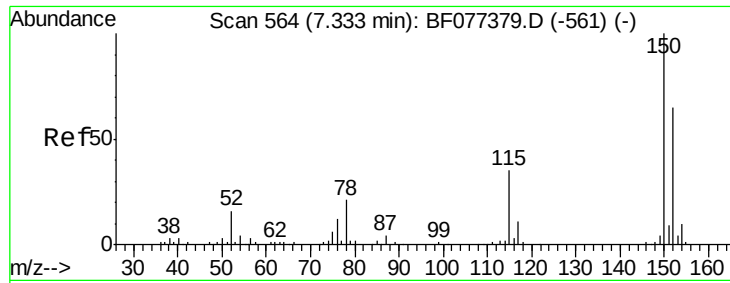
Instrument :  
BNA\_F  
ClientSampled :  
SB20

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Quant Time: Mar 05 09:28:09 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 04 13:27:09 2015  
Response via : Initial Calibration





#1

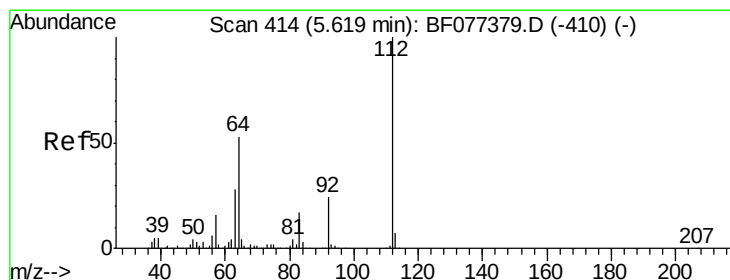
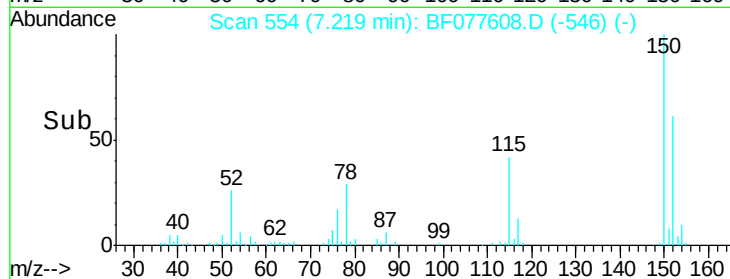
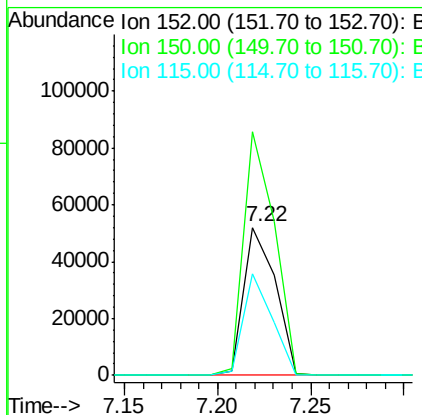
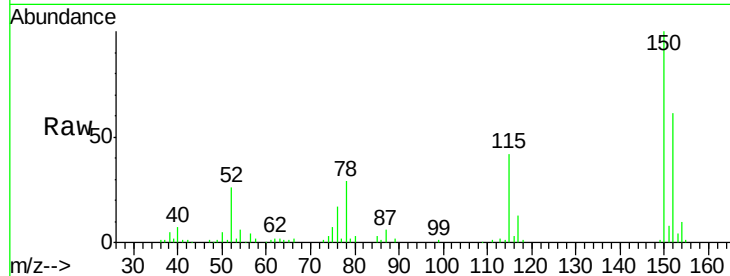
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.22 min Scan# 554  
Delta R.T. -0.00 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

Instrument :  
BNA\_F  
ClientSampleId :  
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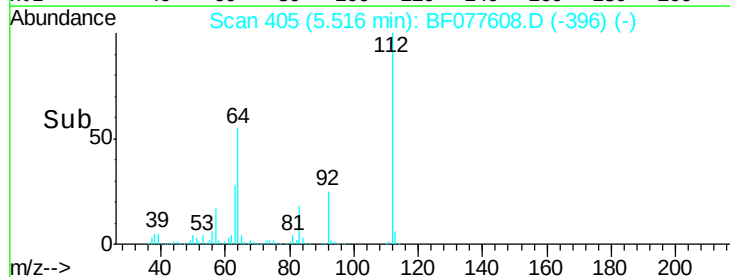
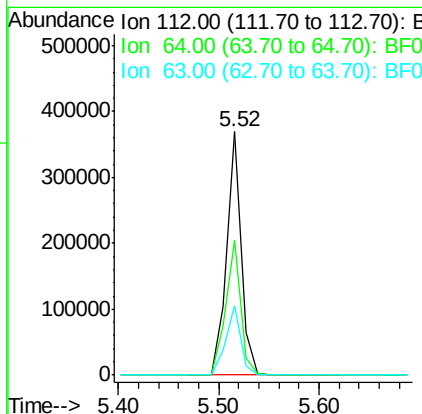
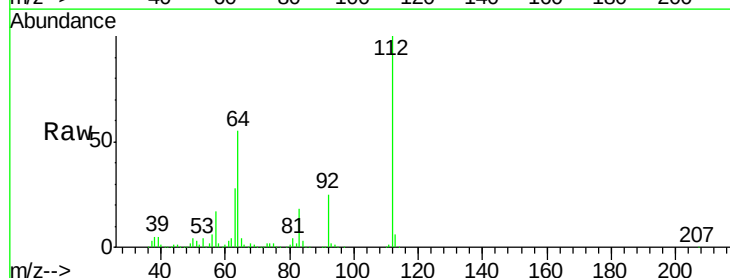
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 164.4 | 124.0 | 186.0 |
| 115     | 68.3  | 49.4  | 74.2  |

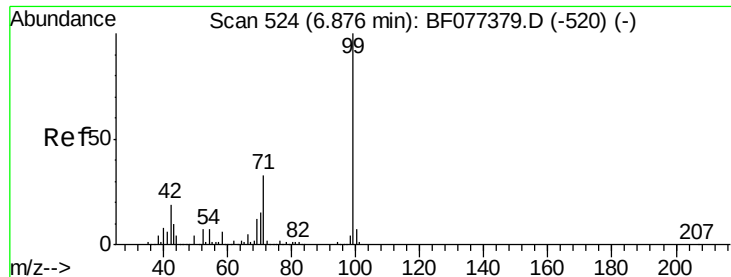


#5

2-Fluorophenol  
Concen: 101.82 ng  
RT: 5.52 min Scan# 405  
Delta R.T. 0.00 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.5  | 48.5  | 72.7  |
| 63      | 28.4  | 25.0  | 37.4  |





#7

Phenol-d6

Concen: 95.46 ng

RT: 6.79 min Scan# 516

Delta R.T. -0.00 min

Lab File: BF077608.D

Acq: 5 Mar 2015 6:24

Instrument :

BNA\_F

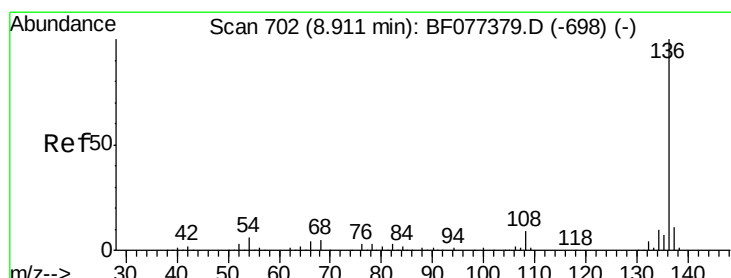
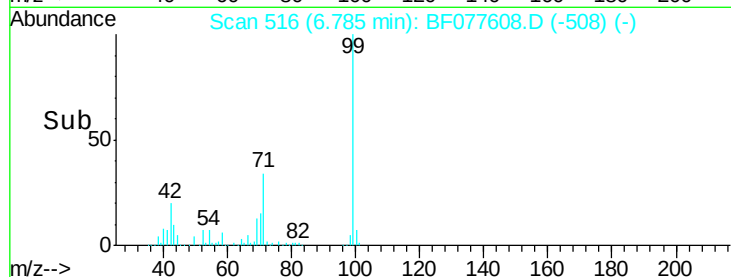
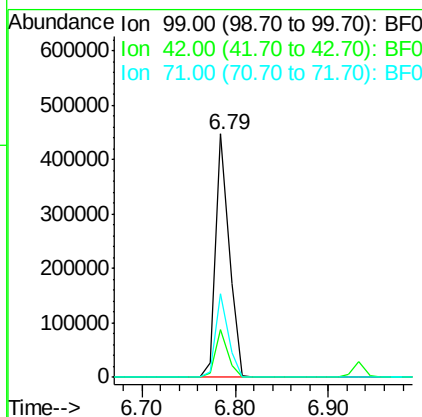
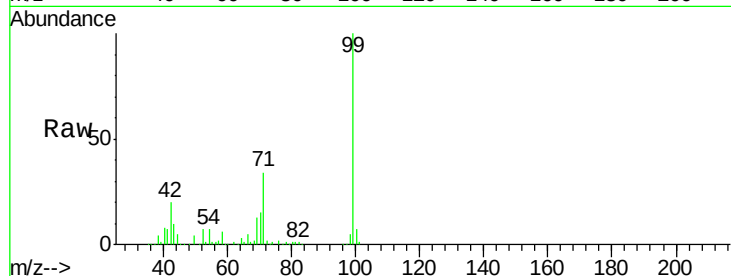
ClientSampleId :

SB20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 450899 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.7  | 16.2  | 24.4   |
| 71        | 34.1  | 26.7  | 40.1   |

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#21

Naphthalene-d8

Concen: 20.00 ng

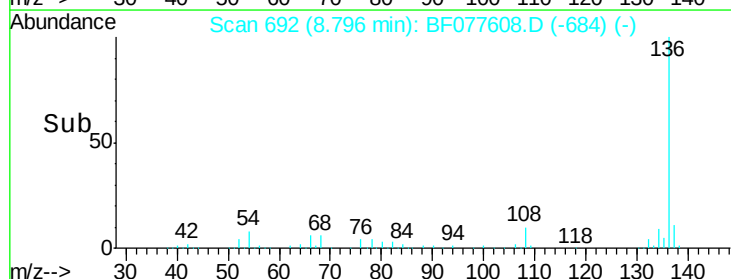
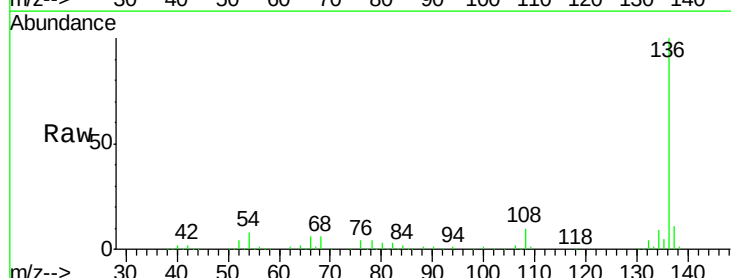
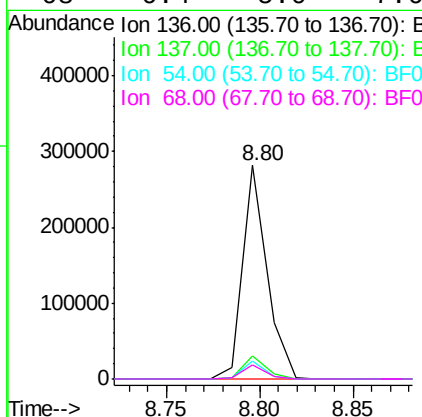
RT: 8.80 min Scan# 692

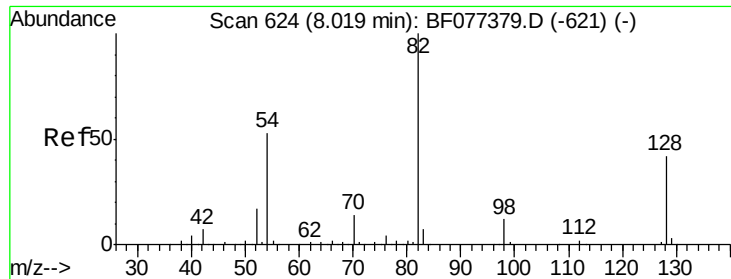
Delta R.T. -0.00 min

Lab File: BF077608.D

Acq: 5 Mar 2015 6:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 256417 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.9  | 8.6   | 13.0   |
| 54        | 8.1   | 6.2   | 9.4    |
| 68        | 6.4   | 5.0   | 7.6    |





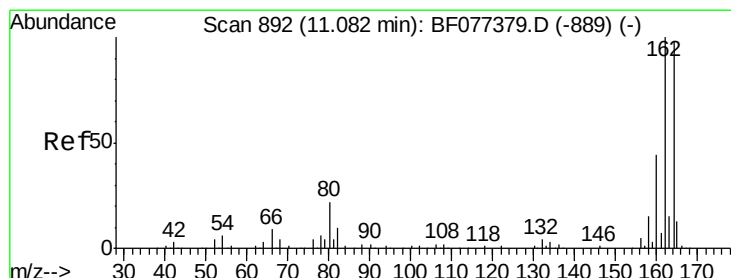
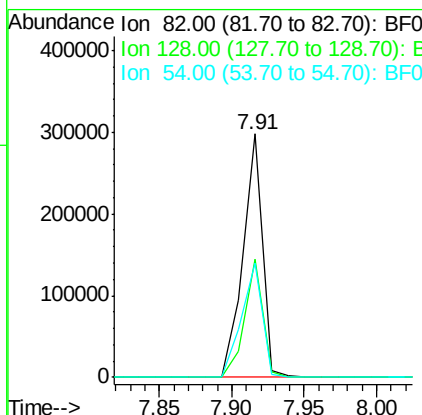
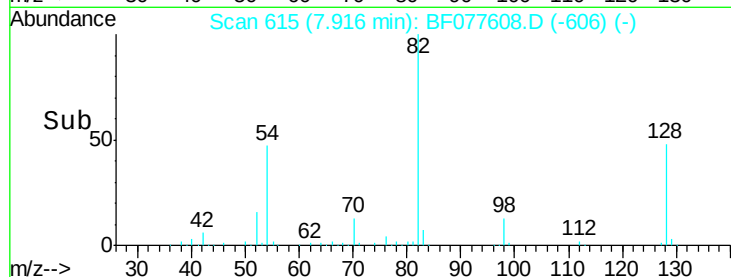
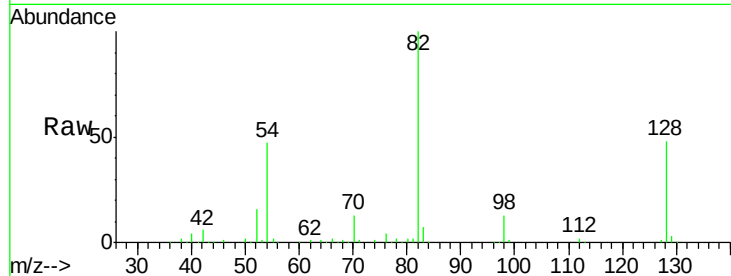
#23  
 Nitrobenzene-d5  
 Concen: 67.53 ng  
 RT: 7.91 min Scan# 615  
 Delta R.T. -0.00 min  
 Lab File: BF077608.D  
 Acq: 5 Mar 2015 6:24

Instrument :  
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 SB20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 278442 |       |       |
| 128     | 48.4  | 43.8   | 65.8  |       |
| 54      | 47.2  | 36.7   | 55.1  |       |

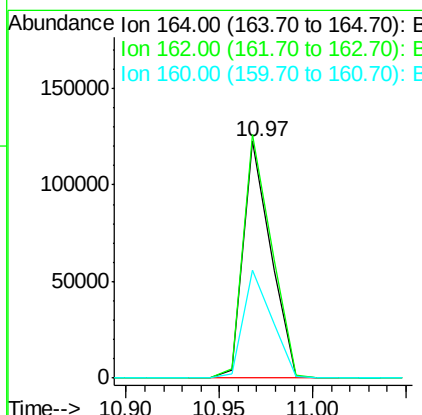
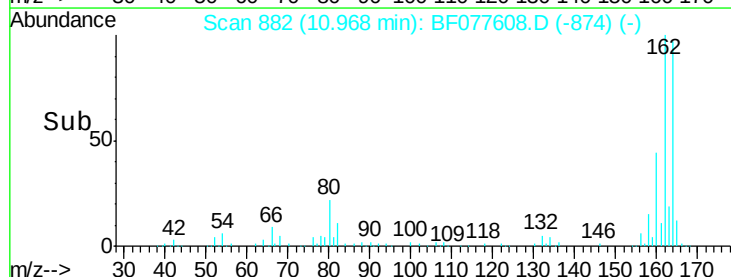
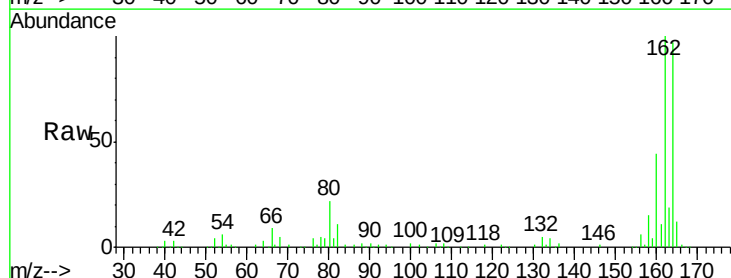
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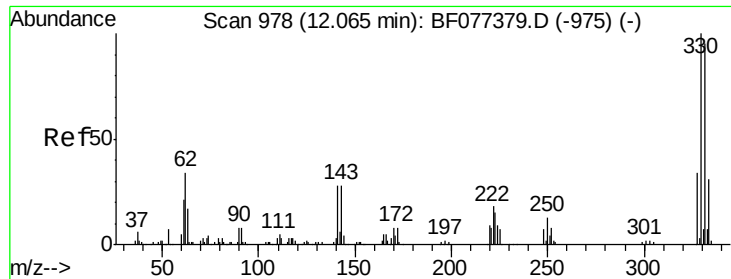
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.97 min Scan# 882  
 Delta R.T. -0.00 min  
 Lab File: BF077608.D  
 Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 125954 |       |       |
| 162     | 102.7 | 83.2   | 124.8 |       |
| 160     | 45.3  | 34.6   | 52.0  |       |





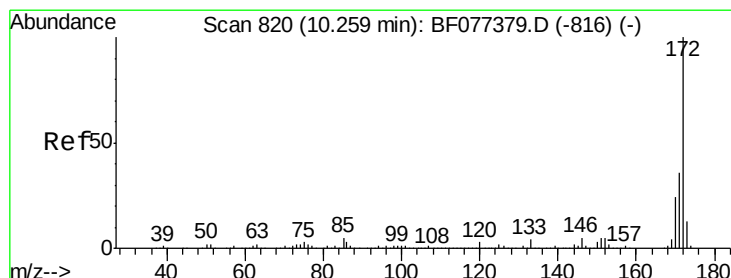
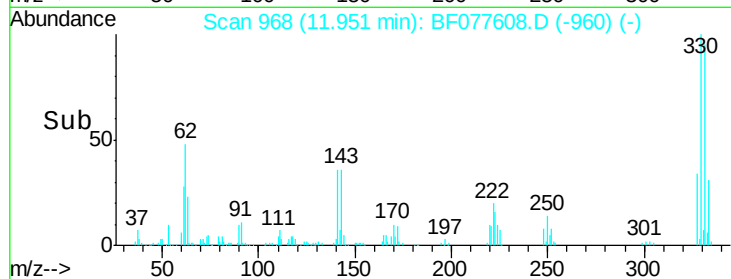
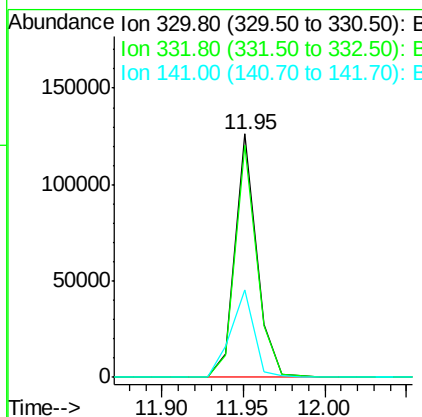
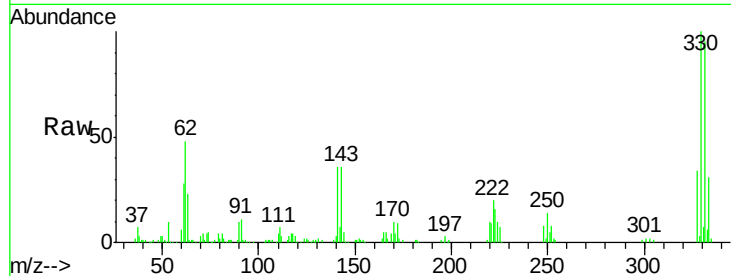
#41  
 2,4,6-Tribromophenol  
 Concen: 95.69 ng  
 RT: 11.95 min Scan# 968  
 Delta R.T. -0.00 min  
 Lab File: BF077608.D  
 Acq: 5 Mar 2015 6:24

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 116048 |       |       |
| 332     | 95.9  | 77.4   | 116.2 |       |
| 141     | 39.1  | 28.8   | 43.2  |       |

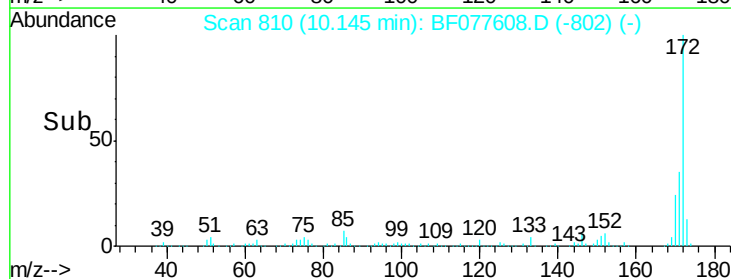
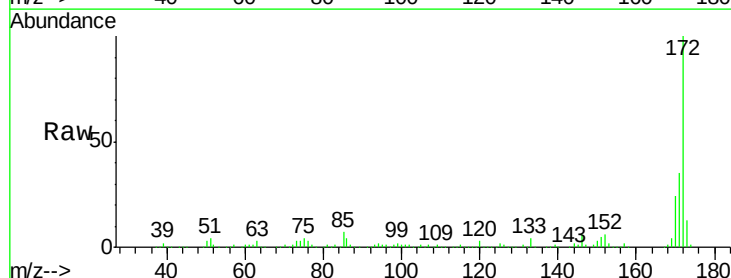
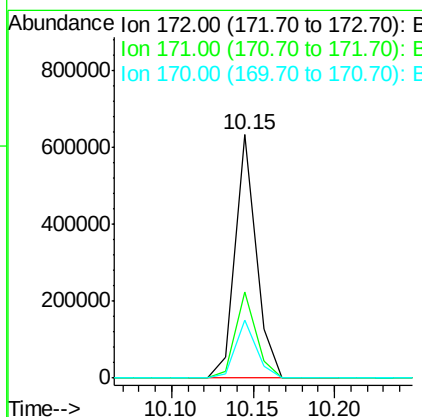
Manual Integrations  
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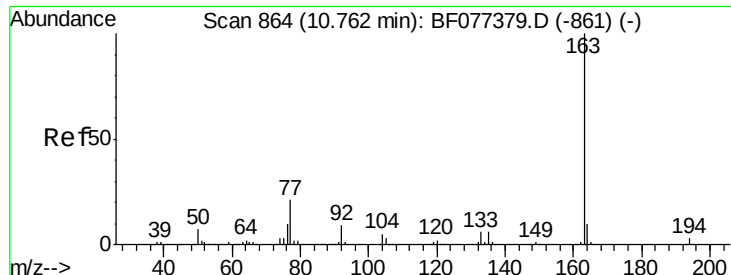
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#44  
 2-Fluorobiphenyl  
 Concen: 69.57 ng  
 RT: 10.15 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: BF077608.D  
 Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 561977 |       |       |
| 171     | 35.3  | 28.9   | 43.3  |       |
| 170     | 23.8  | 19.4   | 29.2  |       |





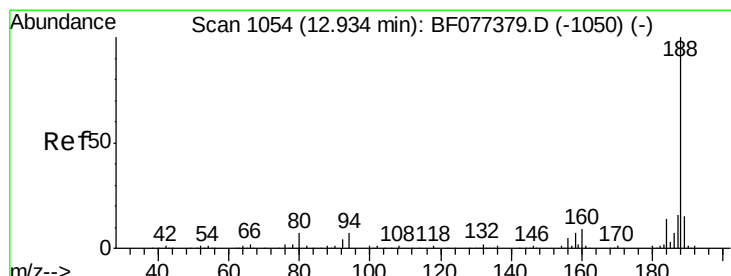
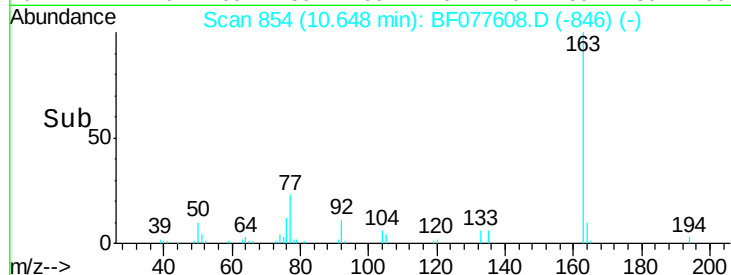
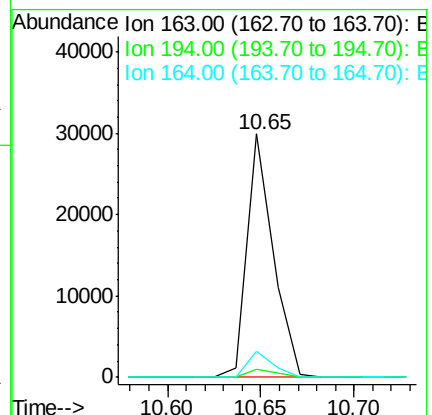
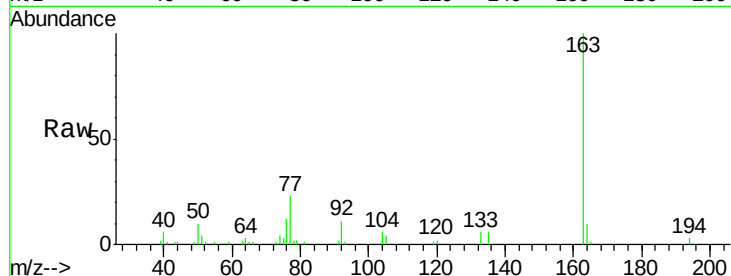
#49  
Dimethylphthalate  
Concen: 3.30 ng  
RT: 10.65 min Scan# 854  
Delta R.T. -0.01 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

Instrument :  
BNA\_F  
ClientSampleId :  
SB20

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 3.3   | 2.6        | 4.0        |
| 164     | 10.4  | 8.6        | 13.0       |

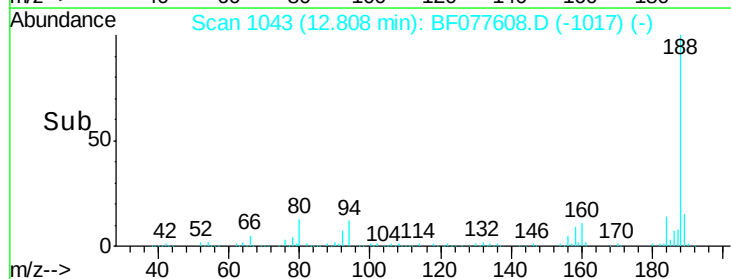
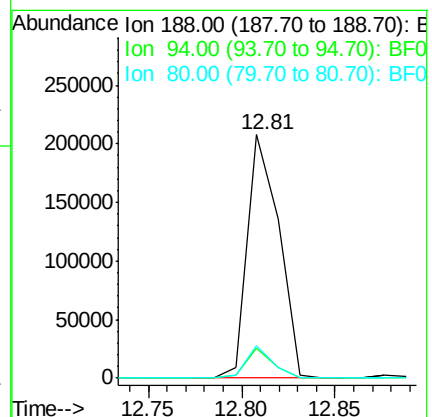
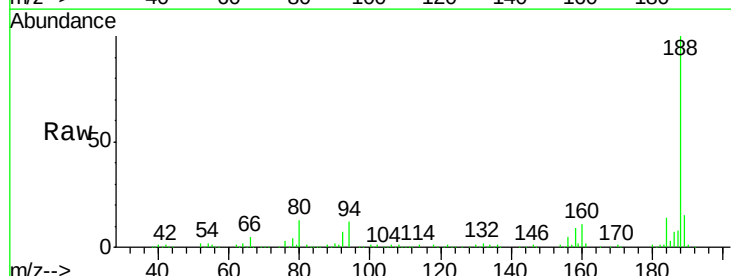
Manual Integrations  
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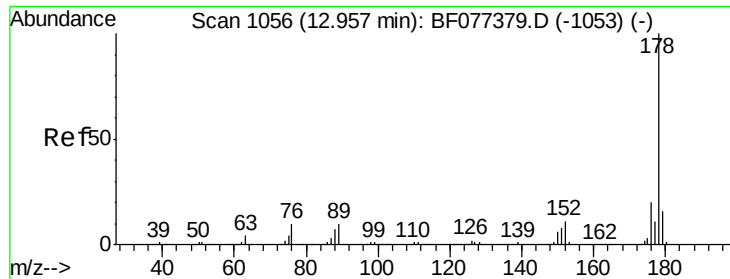
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.81 min Scan# 1043  
Delta R.T. -0.00 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 12.4  | 7.4        | 11.2#      |
| 80      | 13.2  | 8.0        | 12.0#      |





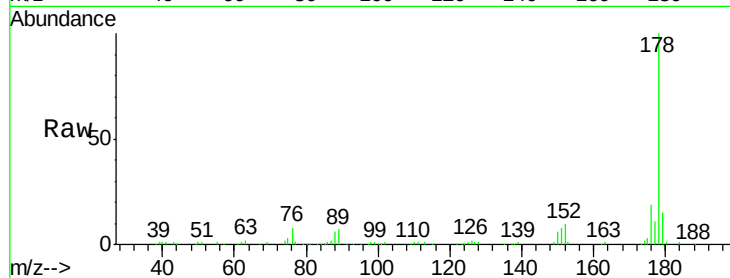
#70  
Phenanthrene  
Concen: 8.84 ng  
RT: 12.84 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

Instrument :  
BNA\_F  
ClientSampleId :  
SB20

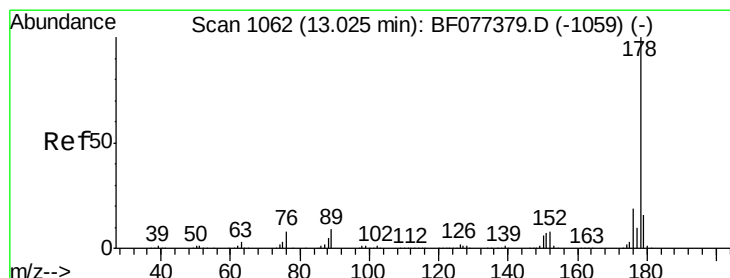
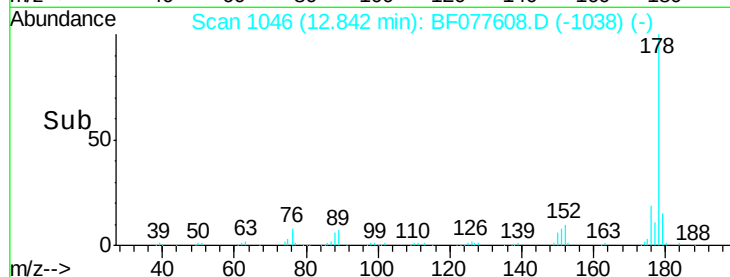
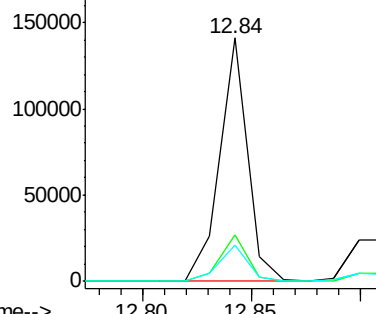
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.5  | 23.3  |
| 179     | 15.1  | 12.2  | 18.2  |

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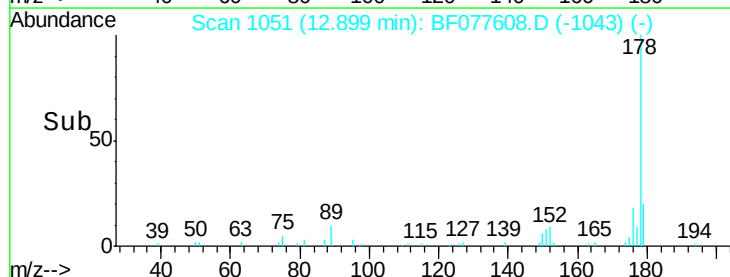
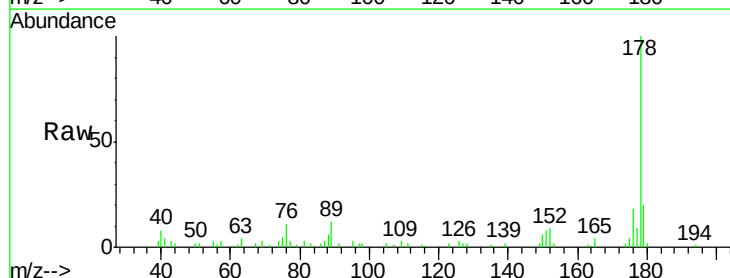
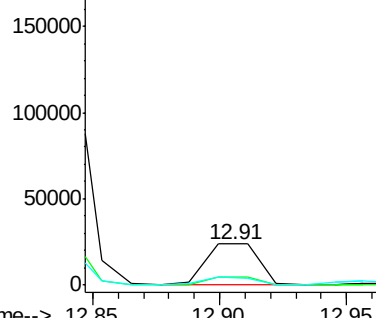
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Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



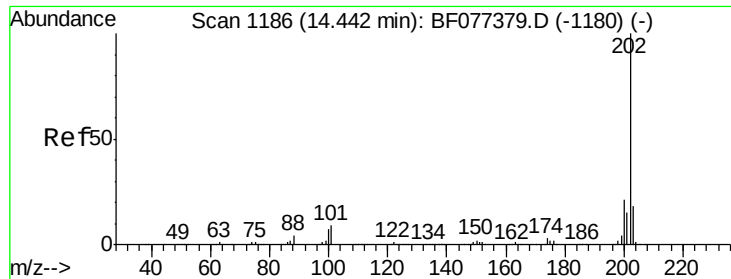
#71  
Anthracene  
Concen: 2.42 ng m  
RT: 12.90 min Scan# 1051  
Delta R.T. -0.01 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.3  | 15.4  | 23.0  |
| 179     | 19.6  | 12.9  | 19.3# |

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







#74

Fluoranthene

Concen: 10.15 ng

RT: 14.32 min Scan# 1175

Delta R.T. -0.00 min

Lab File: BF077608.D

Acq: 5 Mar 2015 6:24

Instrument :

BNA\_F

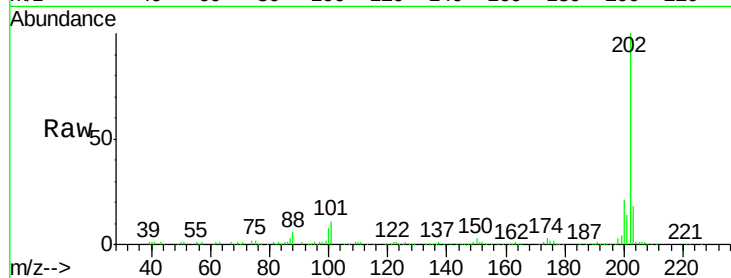
ClientSampleId :

SB20

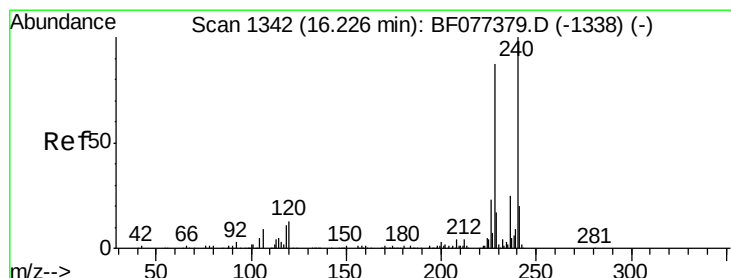
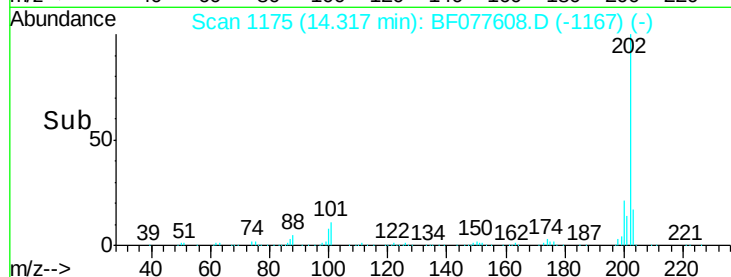
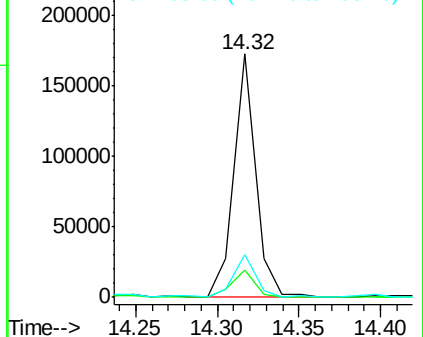
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 157693 |       |       |
| 101 | 11.1 | 0.0   | 30.8   |       |       |
| 203 | 17.6 | 0.0   | 37.7   |       |       |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

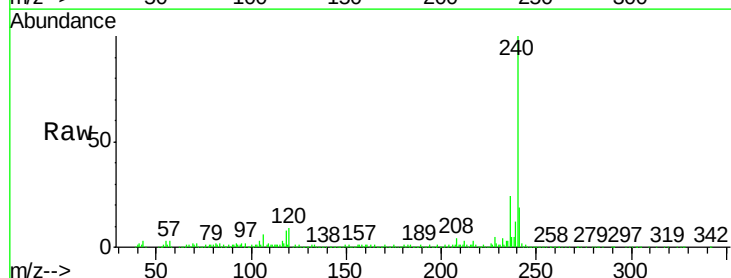
RT: 16.10 min Scan# 1331

Delta R.T. -0.01 min

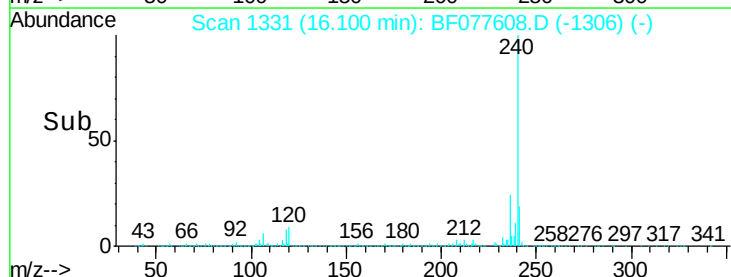
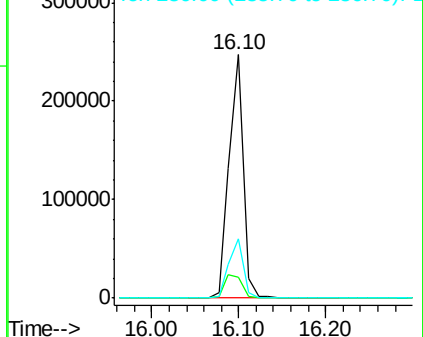
Lab File: BF077608.D

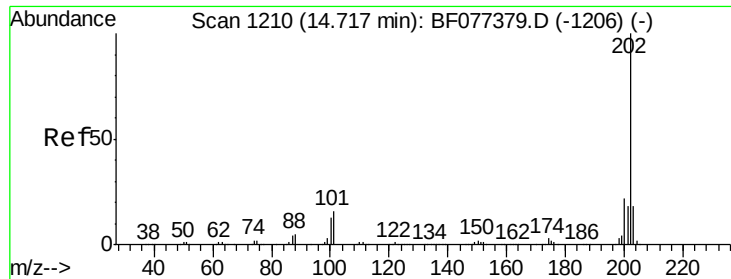
Acq: 5 Mar 2015 6:24

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 240 | 100  |       | 280545 |       |       |
| 120 | 8.8  | 8.8   | 13.2#  |       |       |
| 236 | 24.2 | 20.7  | 31.1   |       |       |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 11.83 ng

RT: 14.60 min Scan# 1200

Delta R.T. -0.00 min

Lab File: BF077608.D

Acq: 5 Mar 2015 6:24

Instrument :

BNA\_F

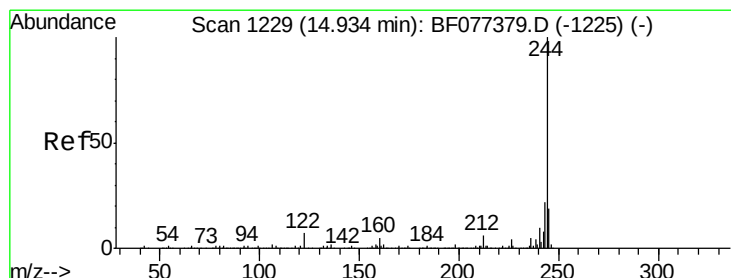
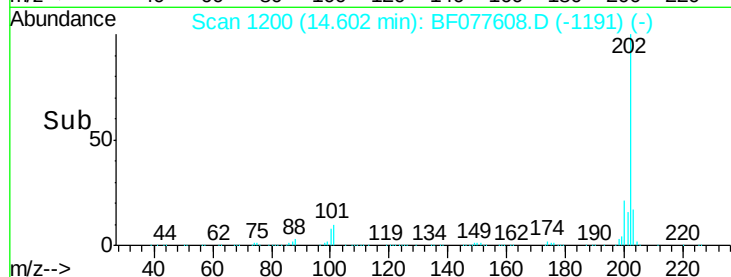
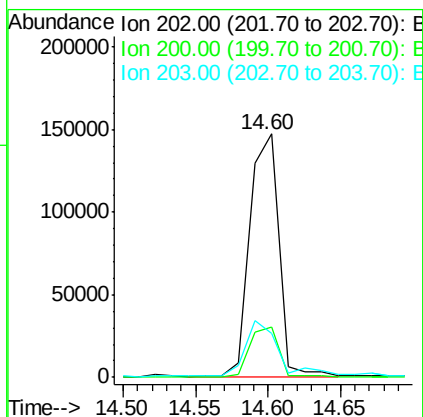
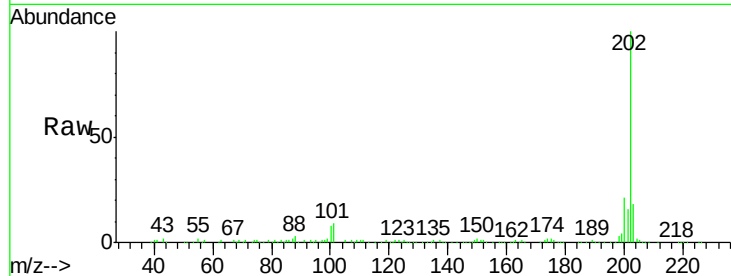
ClientSampleId :

SB20

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 203046 |       |       |
| 200     | 20.8  | 17.1   | 25.7  |       |
| 203     | 17.8  | 14.2   | 21.2  |       |

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#78

Terphenyl-d14

Concen: 55.05 ng

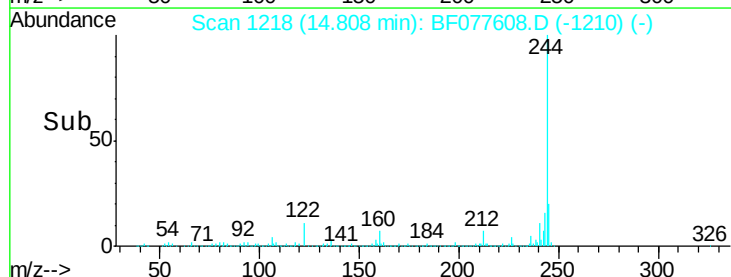
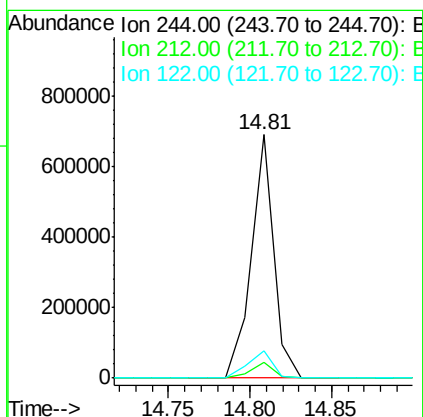
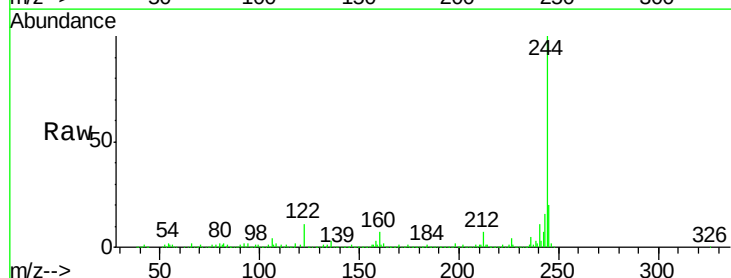
RT: 14.81 min Scan# 1218

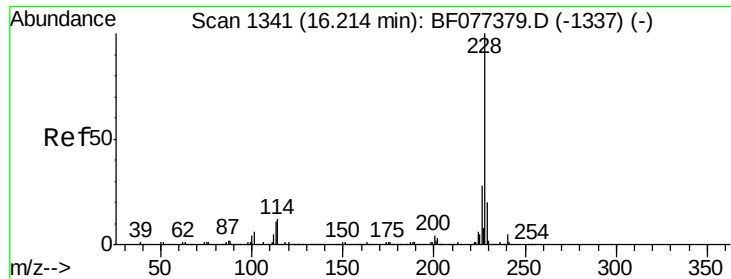
Delta R.T. -0.00 min

Lab File: BF077608.D

Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 660573 |       |       |
| 212     | 6.6   | 5.2    | 7.8   |       |
| 122     | 11.4  | 7.8    | 11.8  |       |





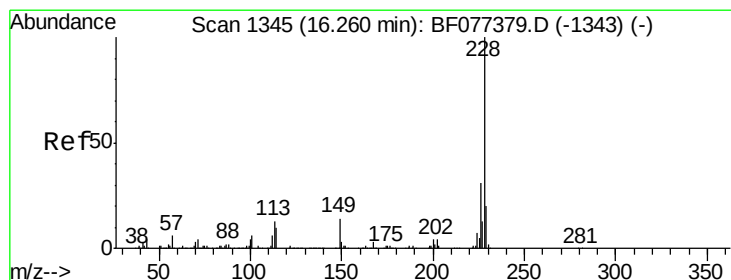
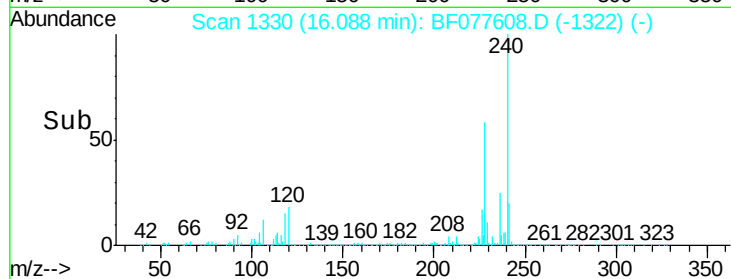
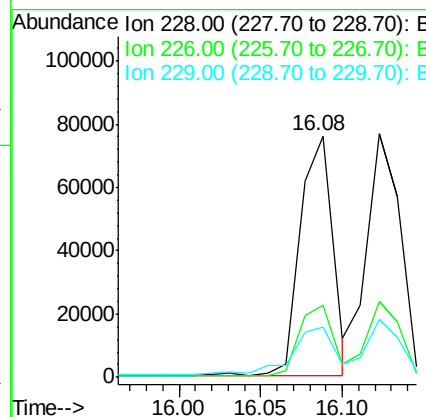
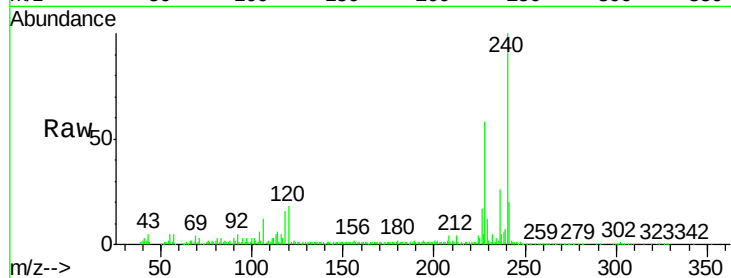
#80  
Benzo(a)anthracene  
Concen: 6.42 ng  
RT: 16.08 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

Instrument :  
BNA\_F  
ClientSampleId :  
SB20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 22.0  | 33.0  |
| 229     | 21.1  | 15.8  | 23.8  |

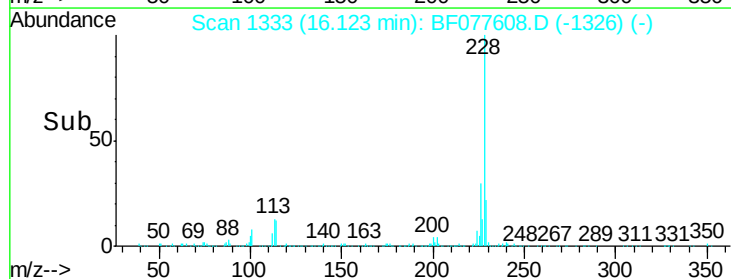
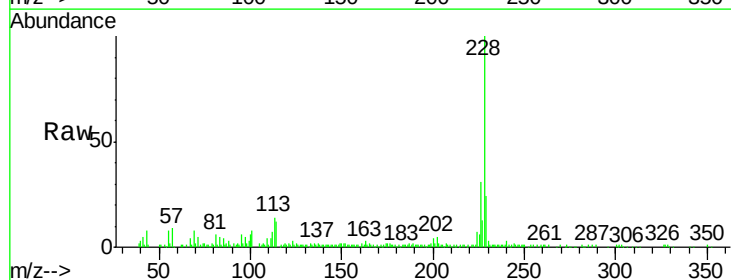
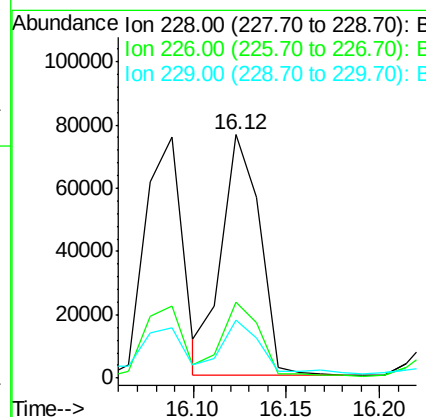
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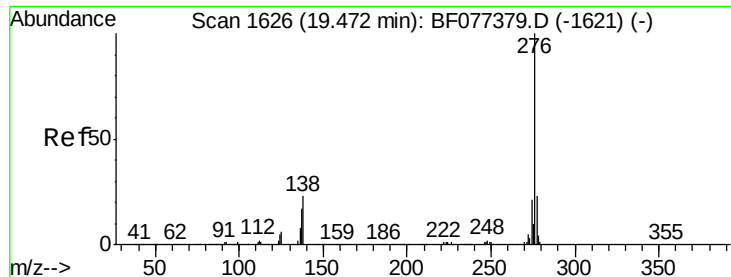
mohammad  
3/5/2015 2:11:30 PM



#82  
Chrysene  
Concen: 6.99 ng  
RT: 16.12 min Scan# 1333  
Delta R.T. -0.02 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 24.9  | 37.3  |
| 229     | 23.9  | 16.4  | 24.6  |





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.38 ng m

RT: 19.22 min Scan# 1604

Delta R.T. -0.08 min

Lab File: BF077608.D

Acq: 5 Mar 2015 6:24

Instrument :

BNA\_F

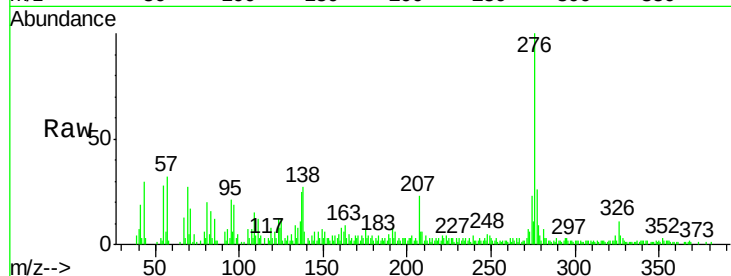
ClientSampleId :

SB20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 59545 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 17.4  | 21.2  | 31.8# |
| 277       | 19.5  | 20.0  | 30.0# |

Manual Integrations  
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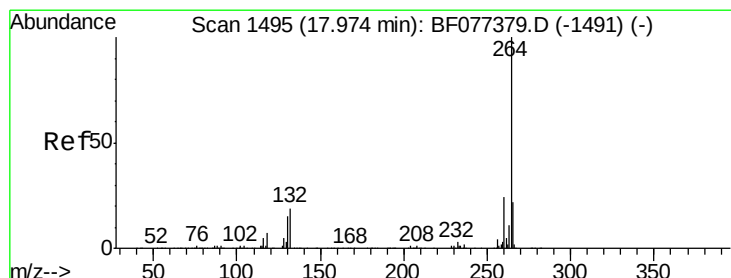
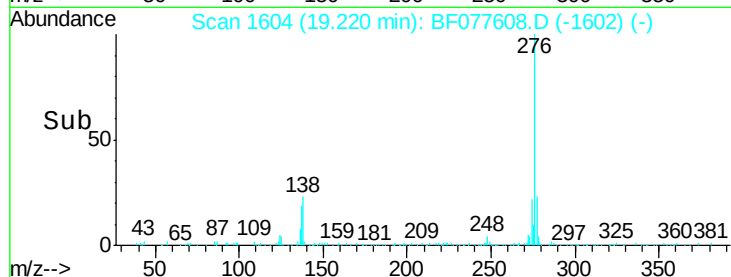
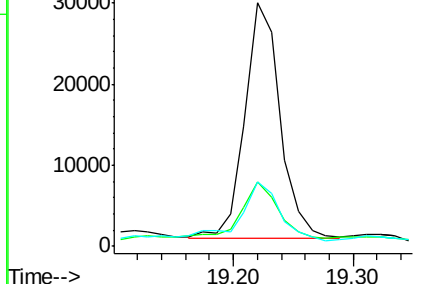
mohammad  
3/5/2015 2:11:30 PM



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

Perylene-d12

Concen: 20.00 ng

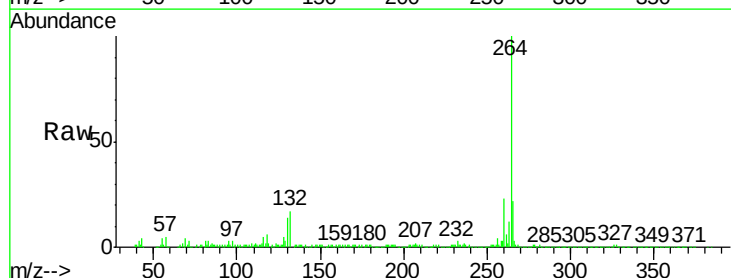
RT: 17.80 min Scan# 1480

Delta R.T. -0.05 min

Lab File: BF077608.D

Acq: 5 Mar 2015 6:24

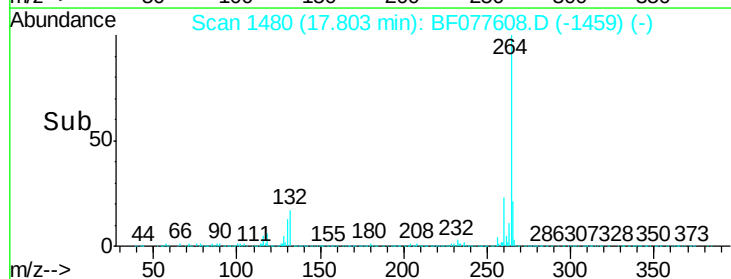
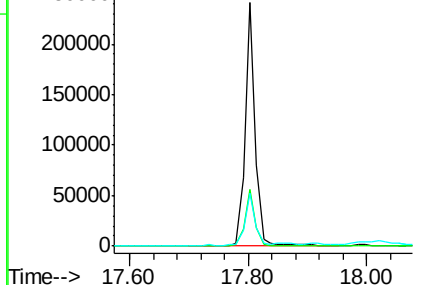
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 277966 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.4  | 19.3  | 28.9   |
| 265       | 21.7  | 16.8  | 25.2   |

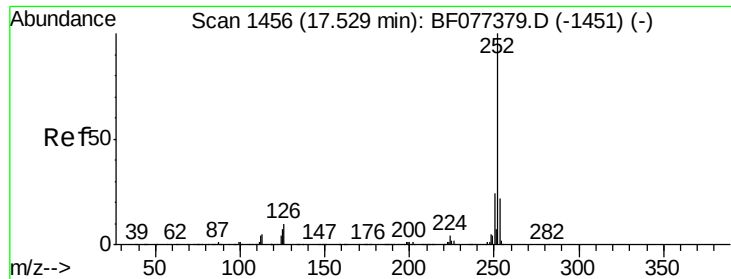


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





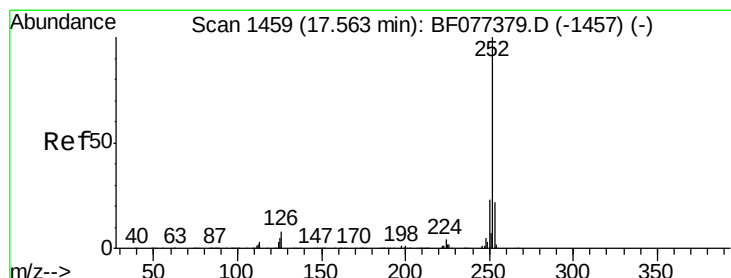
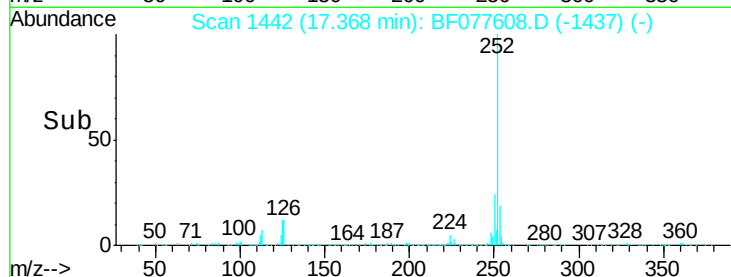
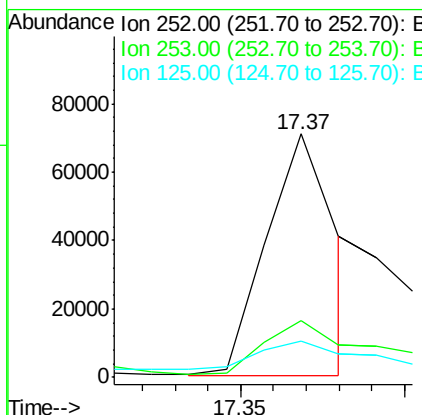
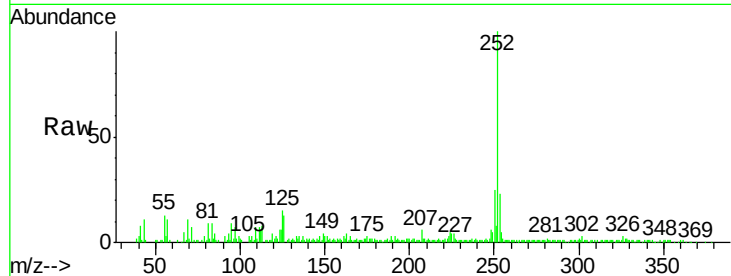
#87  
Benzo(b)fluoranthene  
Concen: 6.41 ng m  
RT: 17.37 min Scan# 1442  
Delta R.T. -0.04 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

Instrument :  
BNA\_F  
ClientSampleId :  
SB20

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.3  | 17.6       | 26.4       |
| 125     | 15.1  | 5.4        | 8.2#       |

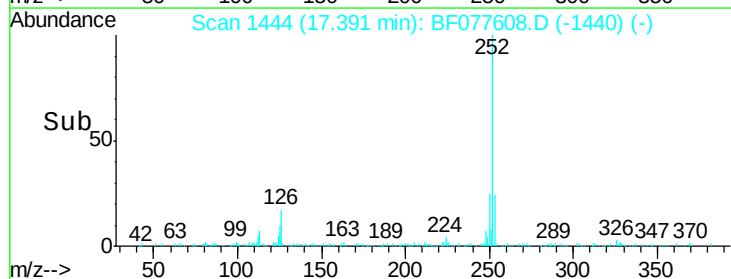
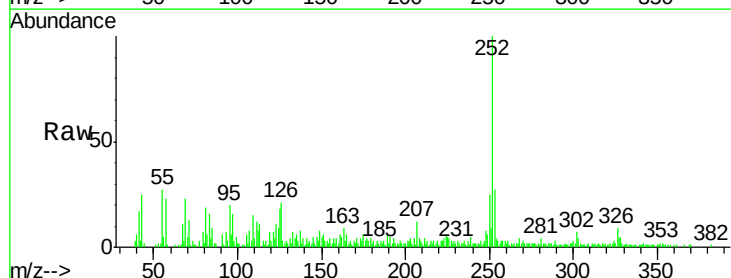
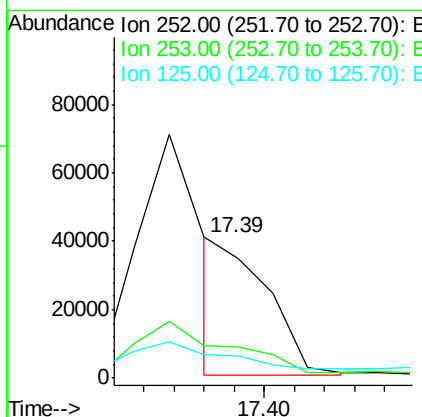
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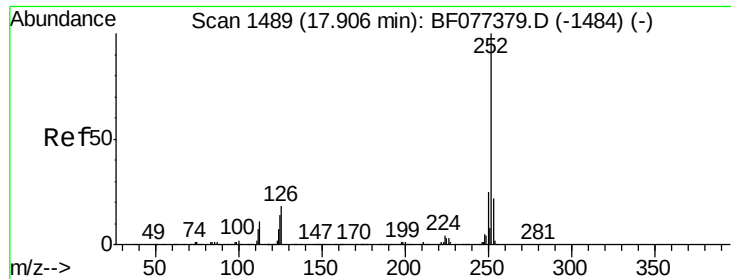
mohammad  
3/5/2015 2:11:30 PM



#88  
Benzo(k)fluoranthene  
Concen: 2.63 ng m  
RT: 17.39 min Scan# 1444  
Delta R.T. -0.05 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 26.5  | 18.1       | 27.1       |
| 125     | 18.2  | 10.1       | 15.1#      |





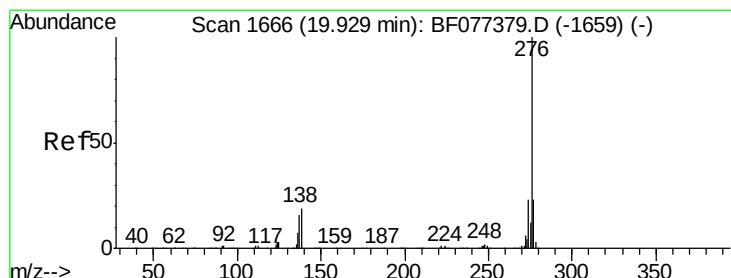
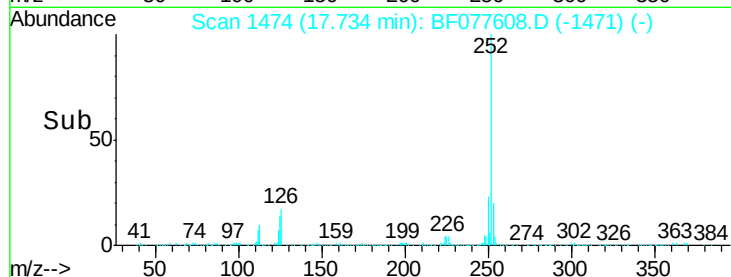
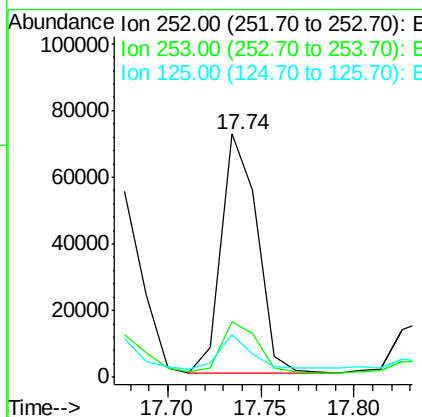
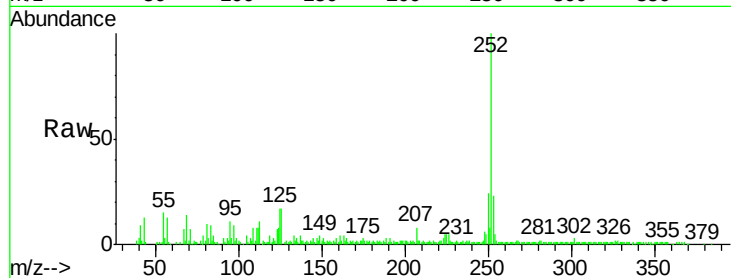
#89  
Benzo(a)pyrene  
Concen: 6.23 ng  
RT: 17.74 min Scan# 1474  
Delta R.T. -0.06 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

Instrument :  
BNA\_F  
ClientSampleId :  
SB20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 18.2  | 27.2  |
| 125     | 17.3  | 8.3   | 12.5# |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 4.44 ng  
RT: 19.65 min Scan# 1641  
Delta R.T. -0.07 min  
Lab File: BF077608.D  
Acq: 5 Mar 2015 6:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.8  | 18.9  | 28.3  |
| 138     | 25.2  | 20.5  | 30.7  |

