

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\  
 Data File : BF099187.D  
 Acq On : 7 Oct 2017 11:53  
 Operator : SJ/JU  
 Sample : I5586-03  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G72-1-2

Manual Integrations  
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 10/9/2017 6:33:47 PM

Quant Time: Oct 08 04:03:10 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Oct 08 03:54:40 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 131899   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.15  | 136  | 528791   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.90  | 164  | 229722   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.39 | 188  | 361955   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.03 | 240  | 230002   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.50 | 264  | 223249   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.49  | 112  | 1017300  | 122.78 | ng    | 0.01     |
| 7) Phenol-d6                | 6.50  | 99   | 1254324  | 122.72 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 763216   | 92.56  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 228757   | 121.70 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 1313347  | 95.44  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.97 | 244  | 914703   | 90.44  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.52  | 94   | 39910    | 3.491  | ng    | 93       |
| 49) Dimethylphthalate       | 9.61  | 163  | 229907   | 13.260 | ng    | 100      |
| 70) Phenanthrene            | 11.41 | 178  | 62171    | 3.209  | ng    | 99       |
| 74) Fluoranthene            | 12.60 | 202  | 92969    | 4.739  | ng    | 99       |
| 77) Pyrene                  | 12.83 | 202  | 85503    | 4.875  | ng    | 96       |
| 80) Benzo(a)anthracene      | 14.02 | 228  | 41037    | 2.947  | ng    | 97       |
| 82) Chrysene                | 14.05 | 228  | 40987    | 3.091  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.97 | 276  | 24293    | 2.290  | ng    | # 90     |
| 87) Benzo(b)fluoranthene    | 15.06 | 252  | 60184m   | 4.385  | ng    |          |
| 89) Benzo(a)pyrene          | 15.43 | 252  | 35058    | 2.782  | ng    | # 88     |
| 91) Benzo(g,h,i)perylene    | 17.43 | 276  | 23101    | 2.318  | ng    | # 89     |

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

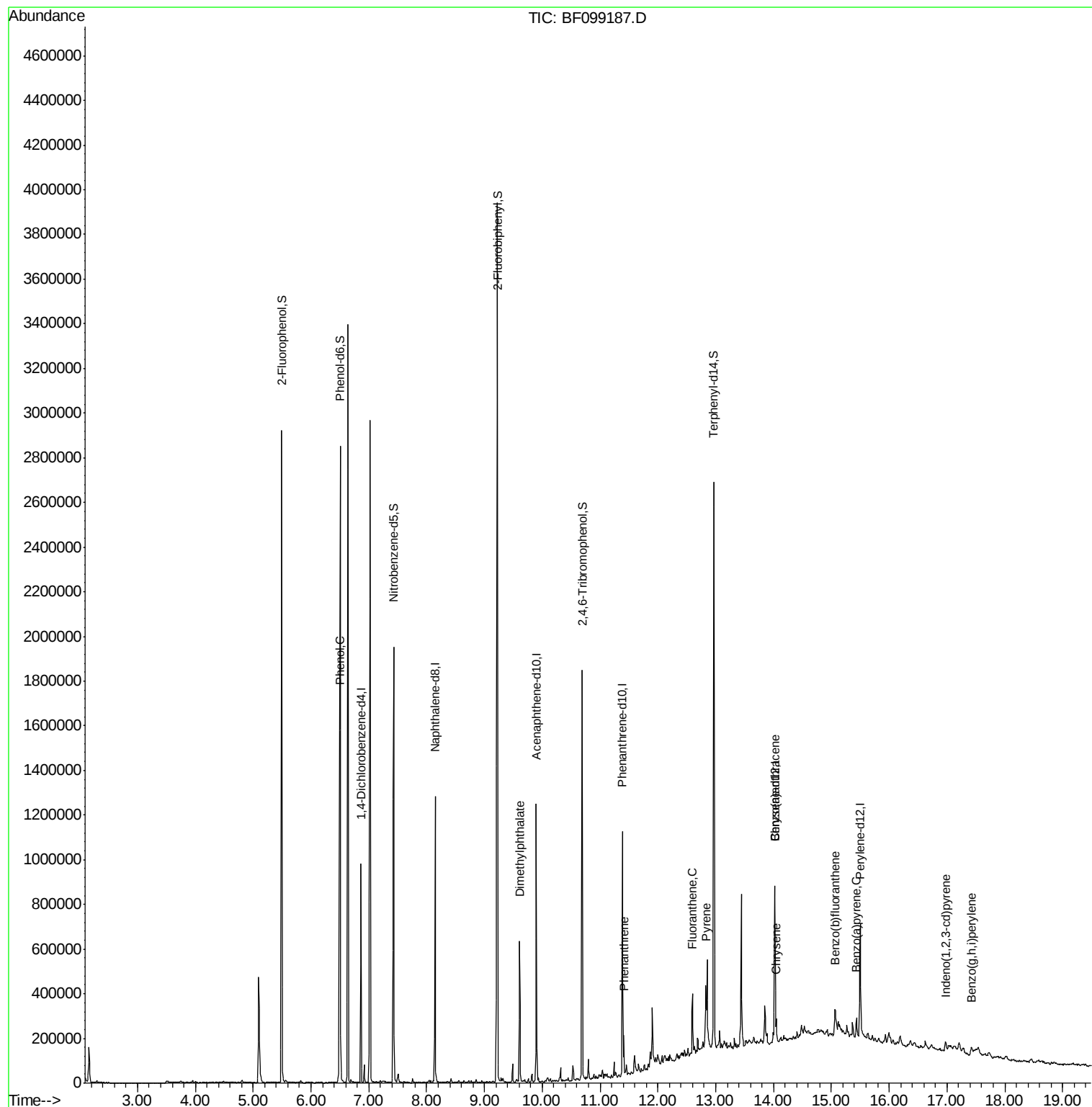
Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\  
Data File : BF099187.D  
Acq On : 7 Oct 2017 11:53  
Operator : SJ/JU  
Sample : I5586-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

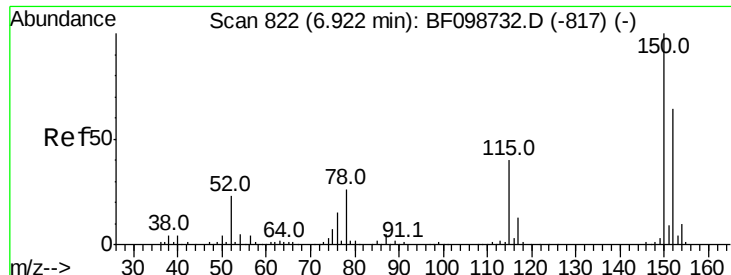
Instrument :  
BNA\_F  
ClientSampleId :  
G72-1-2

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Quant Time: Oct 08 04:03:10 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Oct 08 03:54:40 2017  
Response via : Initial Calibration





#1

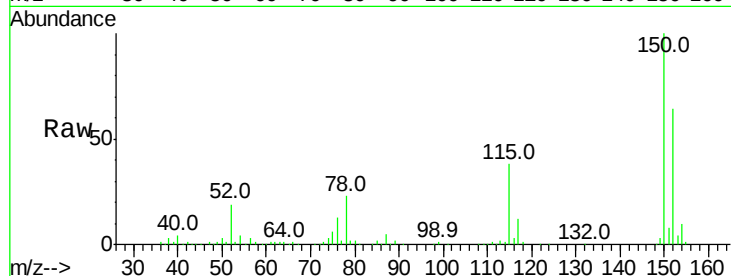
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. 0.00 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

Instrument :  
BNA\_F  
ClientSampled :  
G72-1-2

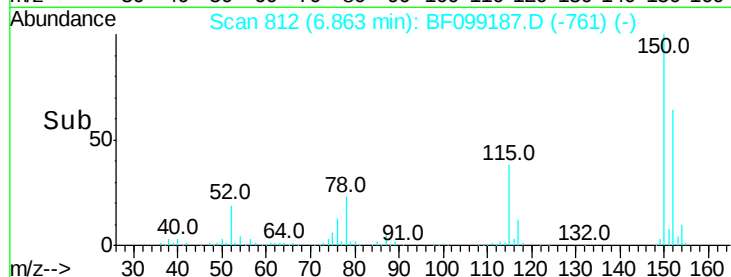
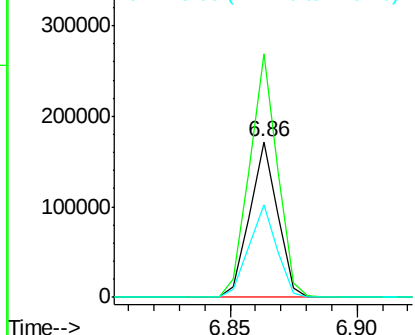
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 124.6 | 186.8 |
| 115     | 59.9  | 50.1  | 75.1  |

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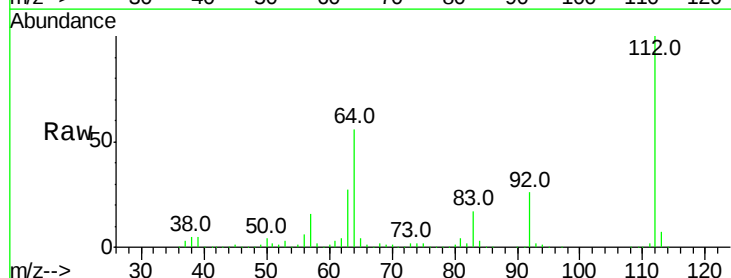
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



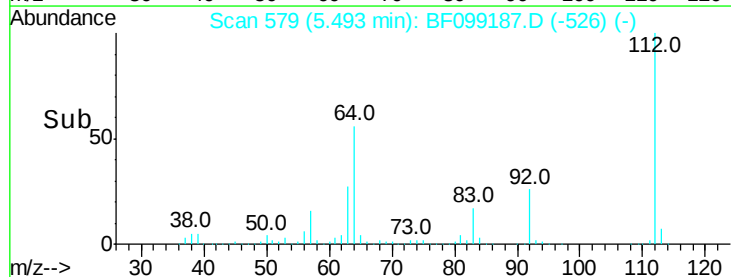
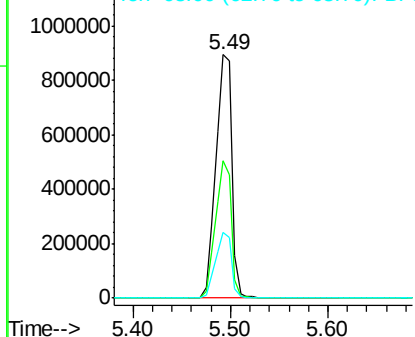
#5

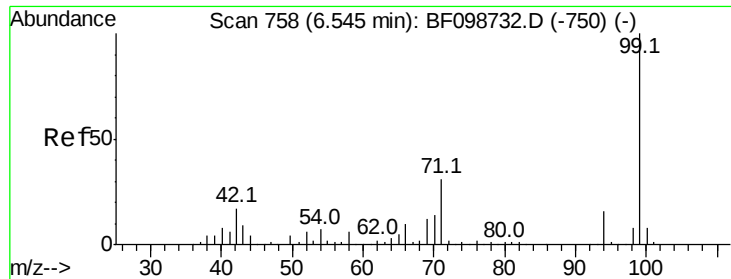
2-Fluorophenol  
Concen: 122.779 ng  
RT: 5.49 min Scan# 579  
Delta R.T. 0.01 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.5  | 47.9  | 71.9  |
| 63      | 27.2  | 23.7  | 35.5  |



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: 122.717 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

Instrument :

BNA\_F

ClientSampled :

G72-1-2

Tot Ion: 99 Resp: 1254324

Ion Ratio Lower Upper

99 100

42 16.0 14.5 21.7

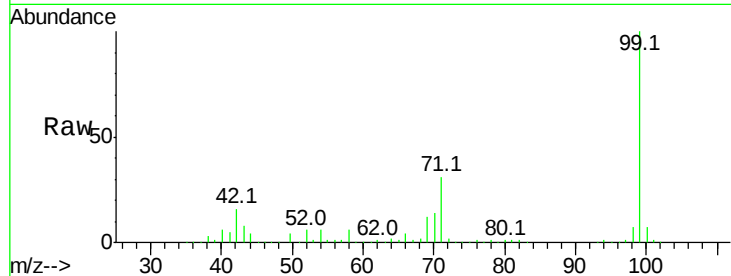
71 31.4 25.4 38.0

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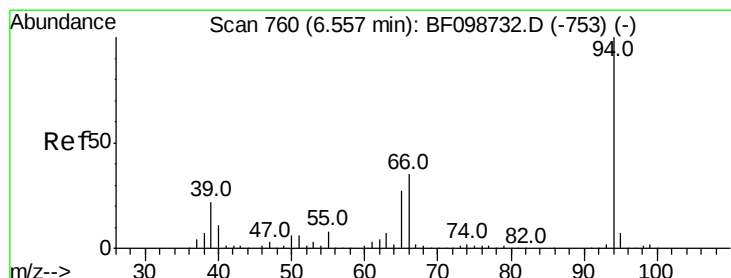
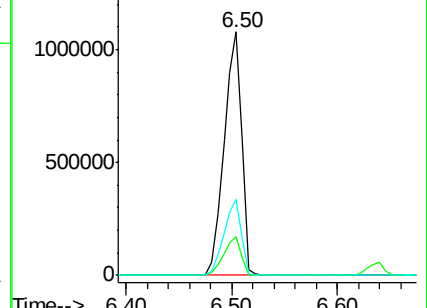
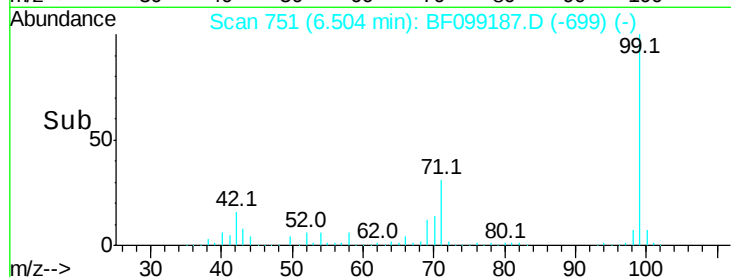
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 3.491 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

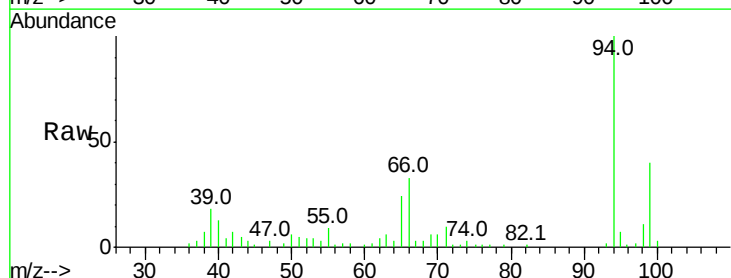
Tgt Ion: 94 Resp: 39910

Ion Ratio Lower Upper

94 100

65 23.9 7.9 47.9

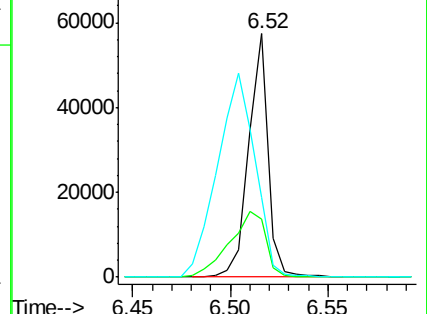
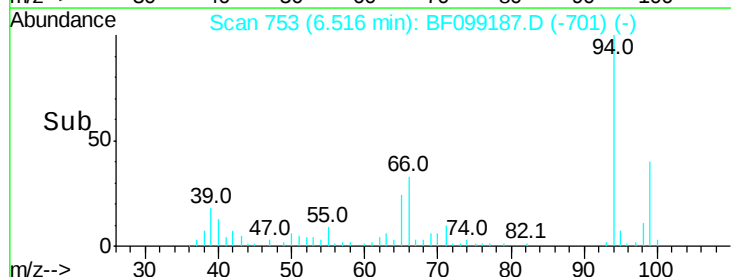
66 32.7 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





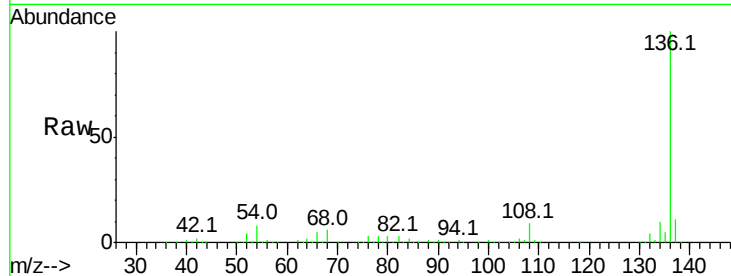
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

Instrument :  
BNA\_F  
ClientSampled :  
G72-1-2

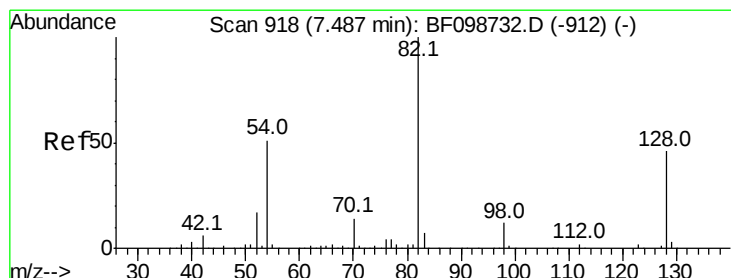
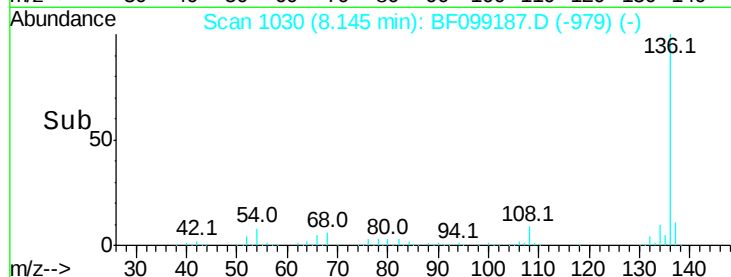
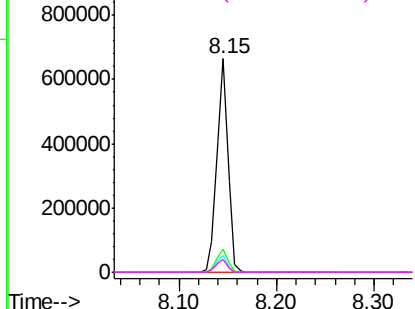
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.0  | 8.9  | 13.3  |       |
| 54      | 7.5   | 6.6  | 9.8   |       |
| 68      | 5.9   | 5.0  | 7.4   |       |

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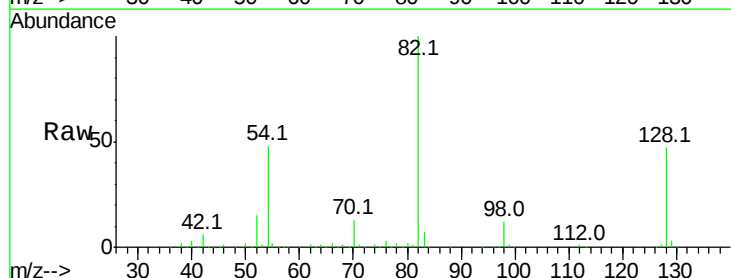


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

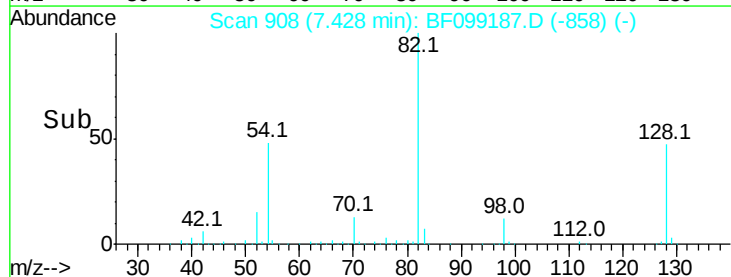
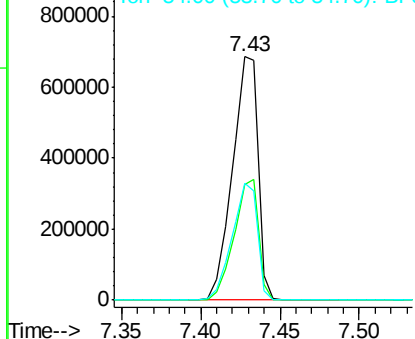


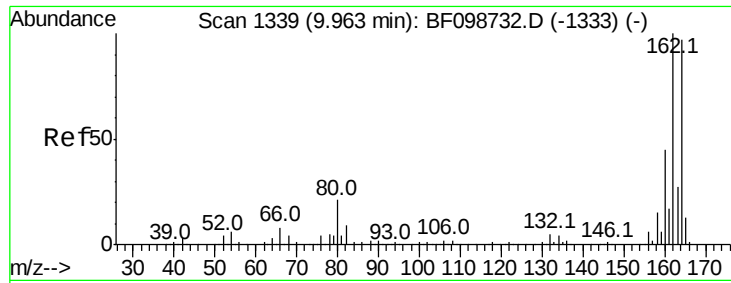
#23  
Nitrobenzene-d5  
Concen: 92.560 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 47.3  | 36.1 | 54.1  |       |
| 54      | 47.9  | 41.4 | 62.2  |       |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





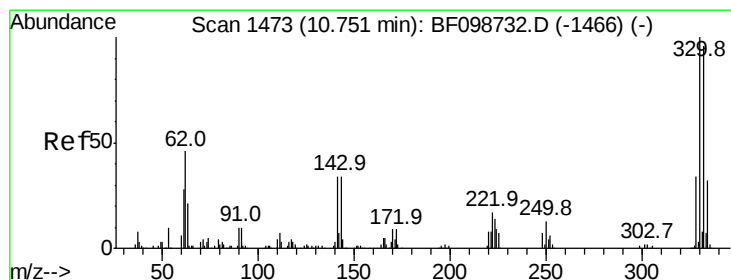
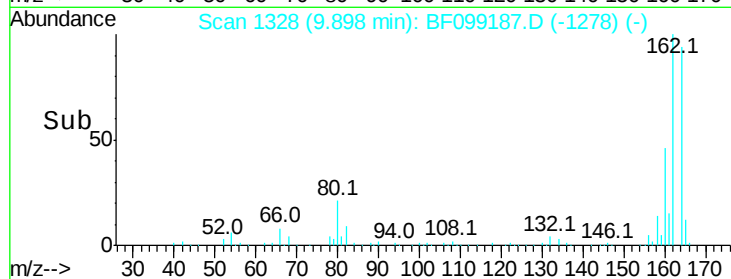
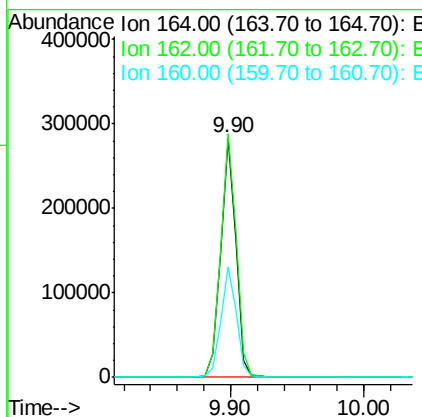
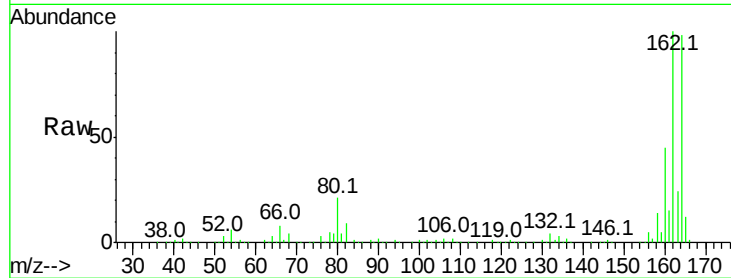
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

Instrument :  
BNA\_F  
ClientSampleId :  
G72-1-2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 229722 |       |       |
| 162     | 101.9 | 86.1   | 129.1 |       |
| 160     | 46.2  | 38.3   | 57.5  |       |

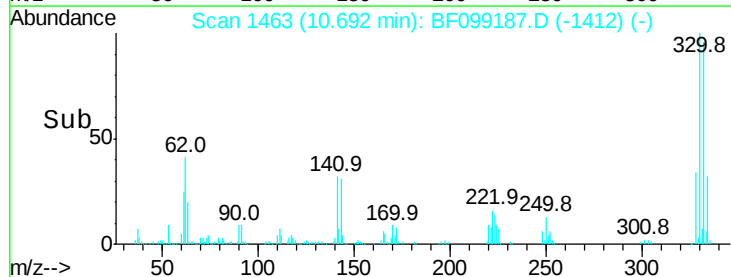
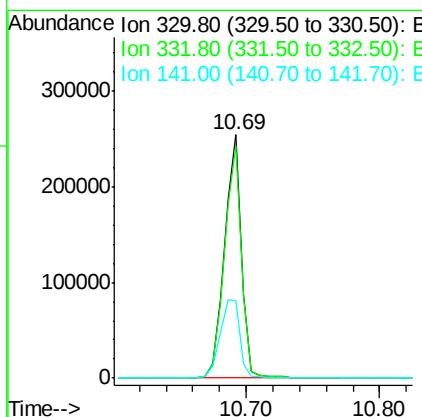
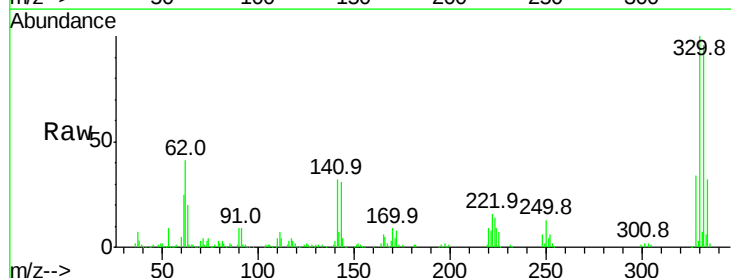
Manual Integrations  
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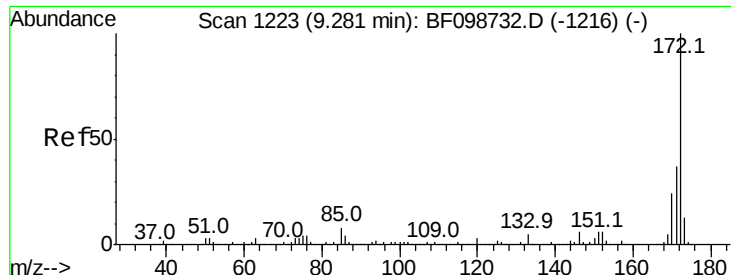
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#41  
2,4,6-Tribromophenol  
Concen: 121.696 ng  
RT: 10.69 min Scan# 1463  
Delta R.T. 0.00 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 228757 |       |       |
| 332     | 96.4  | 77.0   | 115.6 |       |
| 141     | 38.3  | 29.9   | 44.9  |       |





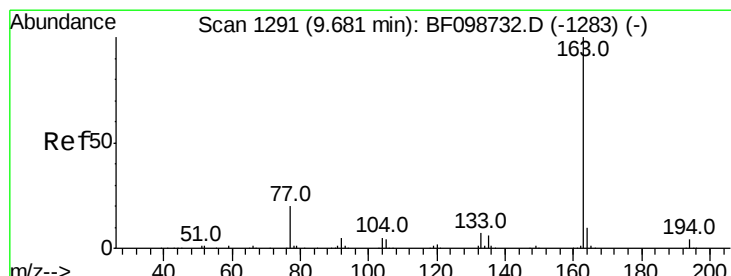
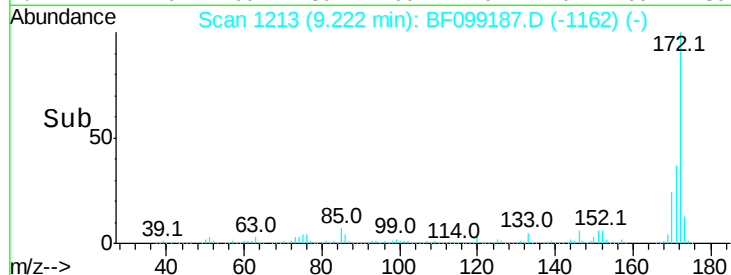
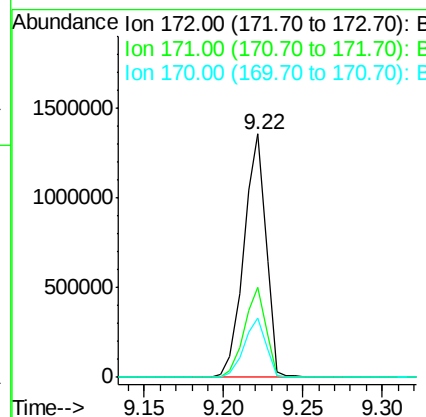
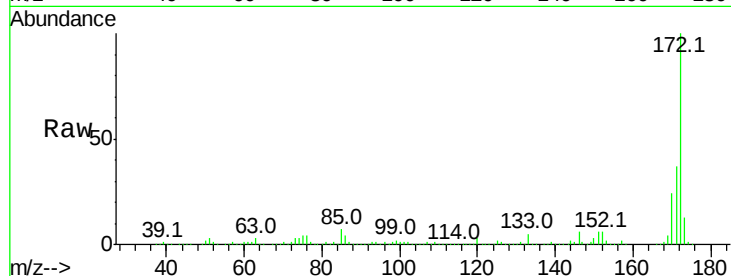
#44  
2-Fluorobiphenyl  
Concen: 95.442 ng  
RT: 9.22 min Scan# 1213  
Delta R.T. 0.00 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

Instrument :  
BNA\_F  
ClientSampleId :  
G72-1-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.2  | 29.7  | 44.5  |
| 170     | 24.3  | 19.6  | 29.4  |

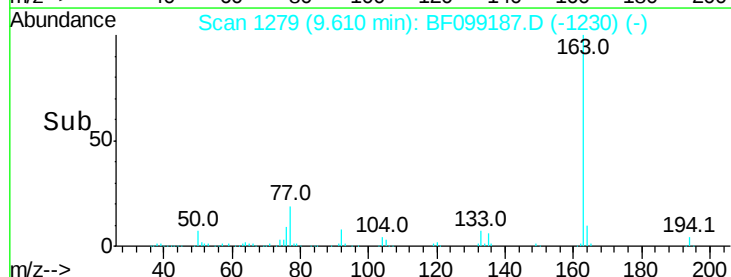
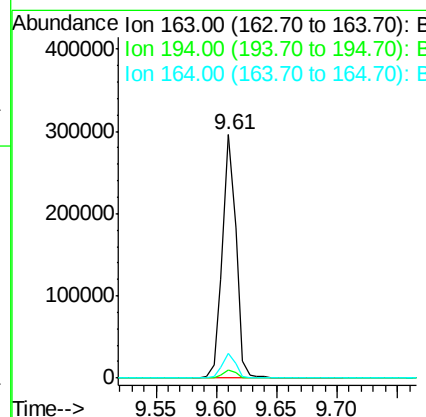
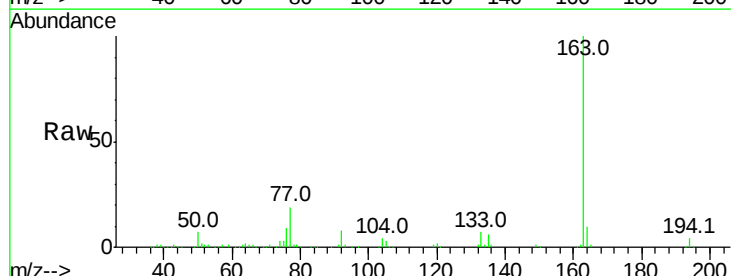
Manual Integrations  
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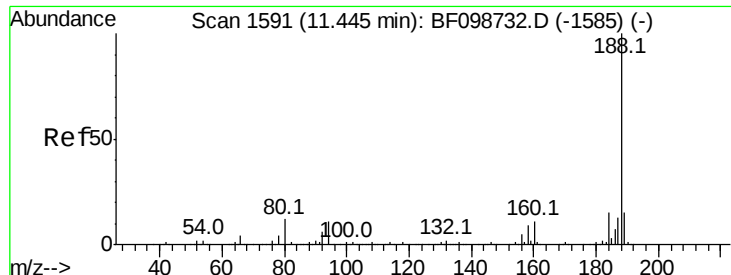
Sohil  
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#49  
Dimethylphthalate  
Concen: 13.260 ng  
RT: 9.61 min Scan# 1279  
Delta R.T. -0.01 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 2.7   | 4.1   |
| 164     | 10.3  | 8.2   | 12.2  |





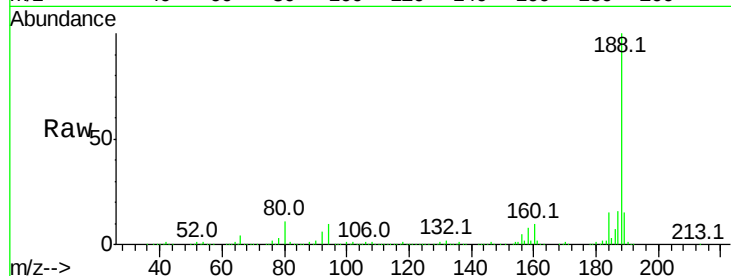
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. 0.00 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

Instrument :  
BNA\_F  
ClientSampled :  
G72-1-2

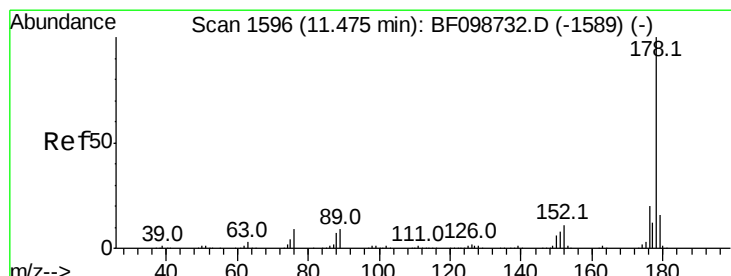
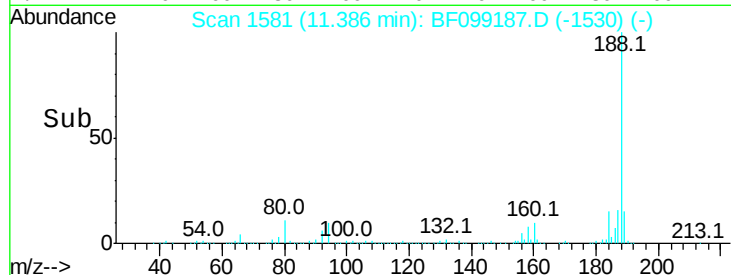
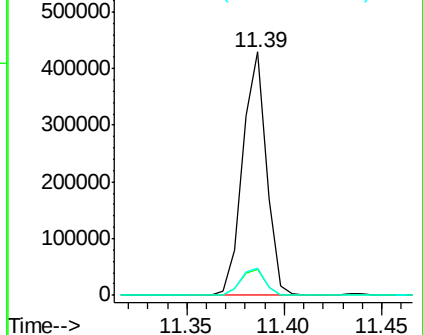
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.4  | 8.5        | 12.7  |
| 80      | 11.5  | 9.2        | 13.8  |

Manual Integrations  
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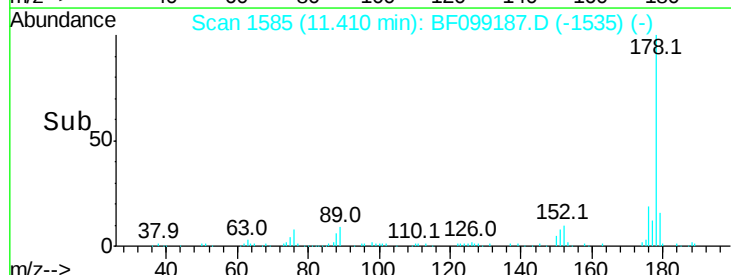
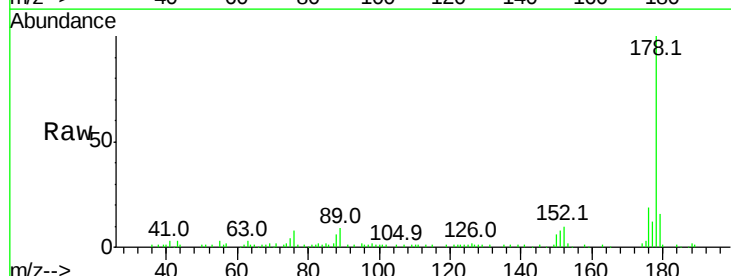
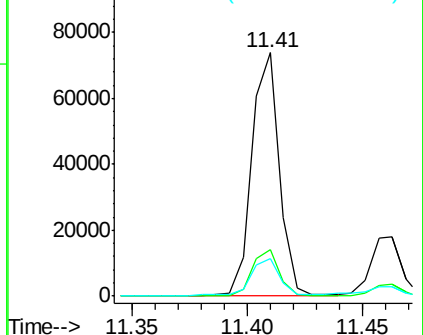
Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

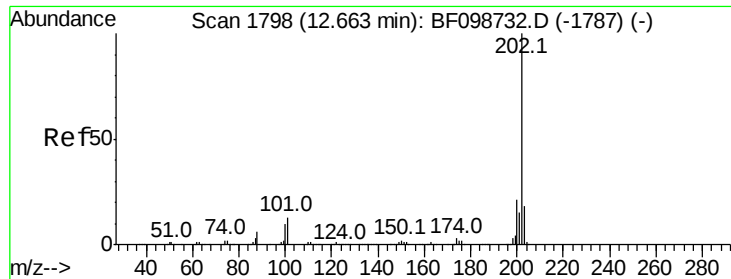


#70  
Phenanthrene  
Concen: 3.209 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.01 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.3  | 15.8       | 23.8  |
| 179     | 15.7  | 13.0       | 19.6  |

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: 4.739 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.01 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

Instrument :

BNA\_F

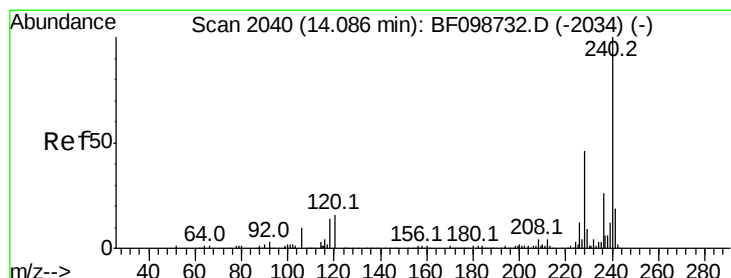
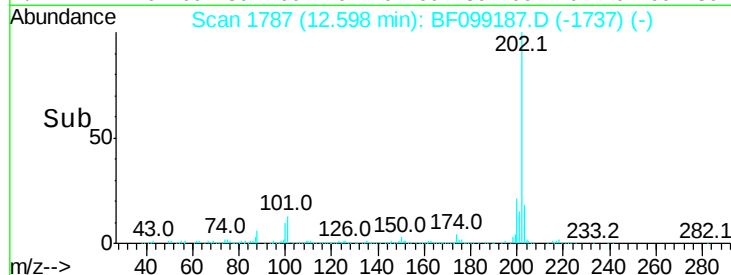
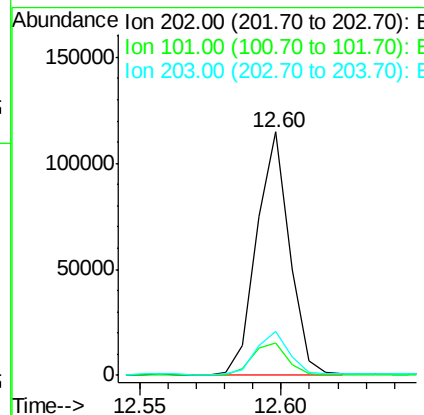
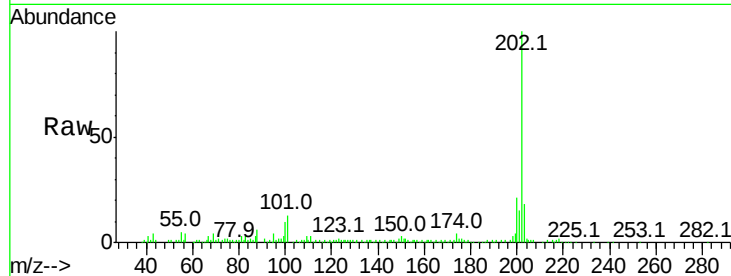
ClientSampleId :

G72-1-2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 92969 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.4  | 0.0   | 34.1  |
| 203       | 17.9  | 0.0   | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

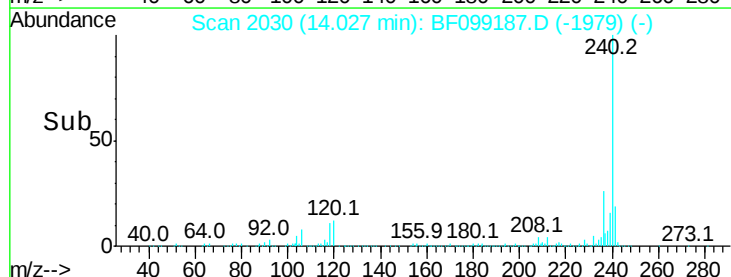
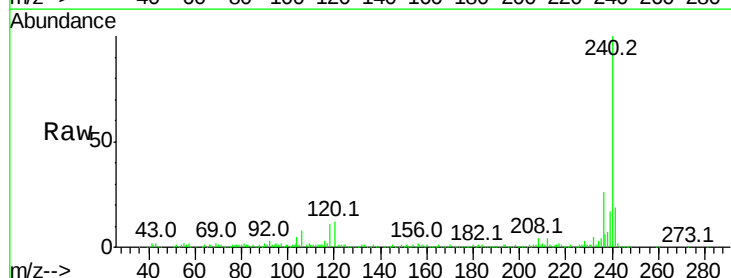
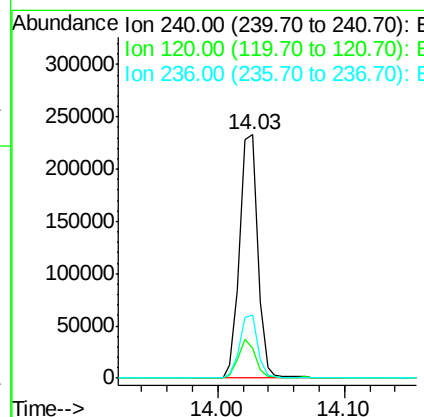
RT: 14.03 min Scan# 2030

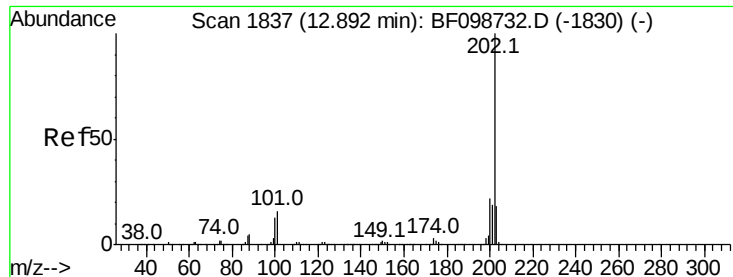
Delta R.T. 0.00 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 230002 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.1  | 9.5   | 14.3   |
| 236       | 26.0  | 20.7  | 31.1   |





#77

Pvrene

Concen: 4.875 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

Instrument :

BNA\_F

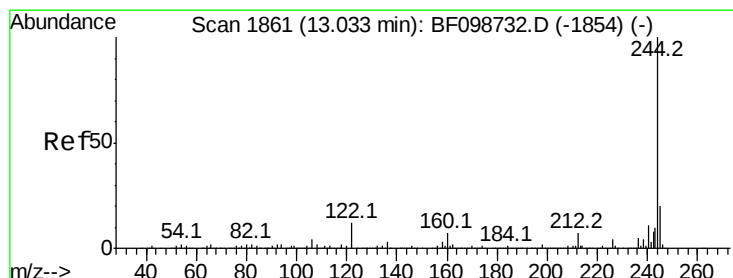
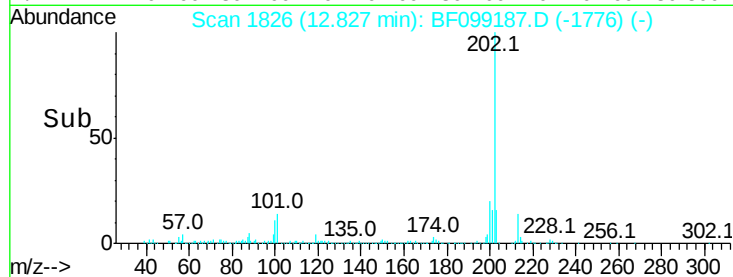
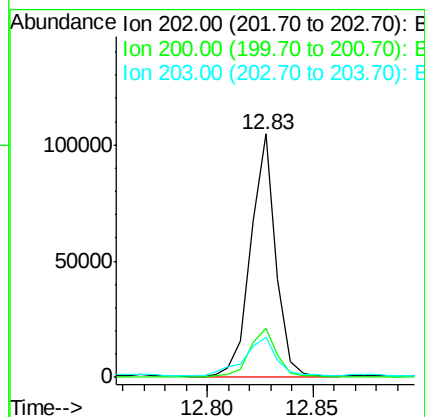
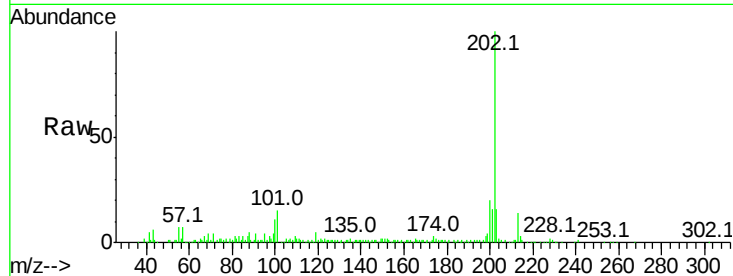
ClientSampled :

G72-1-2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 85503 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 19.9  | 17.4  | 26.2  |
| 203       | 16.3  | 14.3  | 21.5  |

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#78

Terphenyl-d14

Concen: 90.444 ng

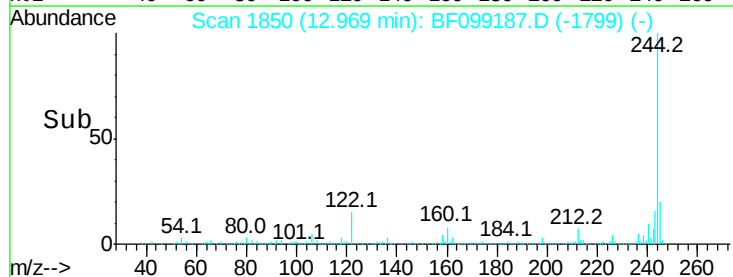
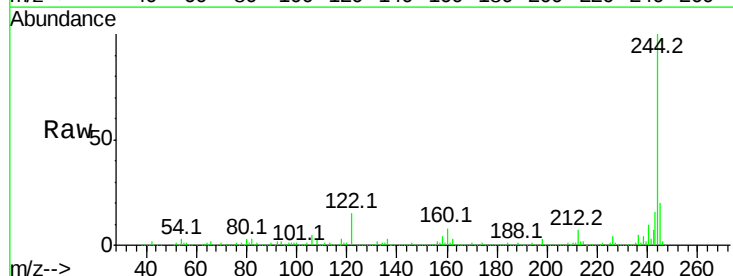
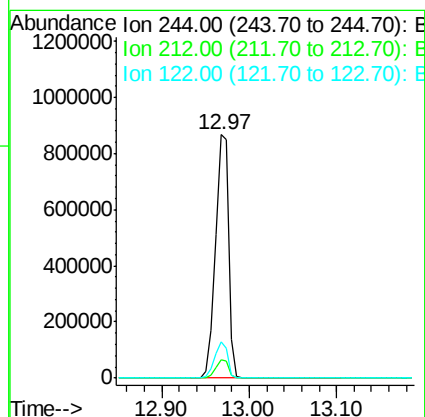
RT: 12.97 min Scan# 1850

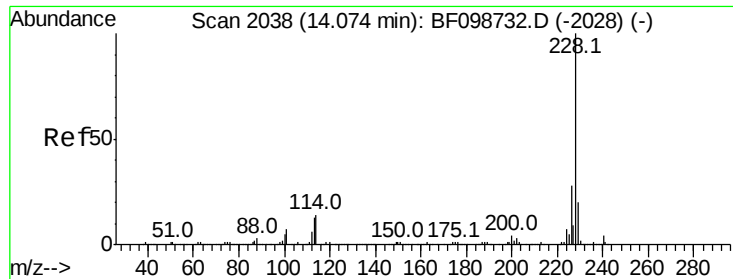
Delta R.T. 0.00 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 914703 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.3   | 5.4   | 8.0    |
| 122       | 14.8  | 11.0  | 16.4   |





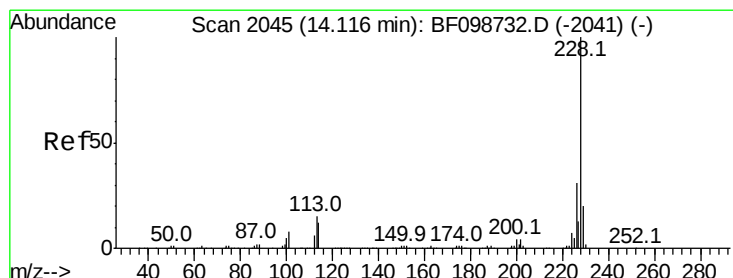
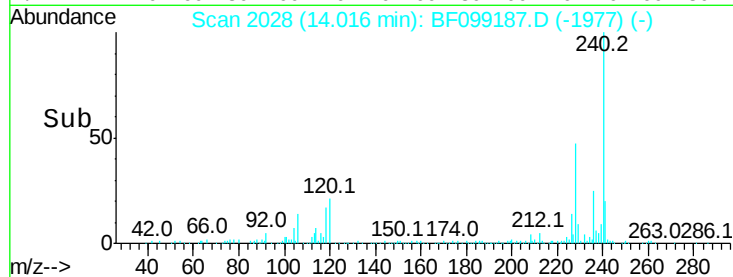
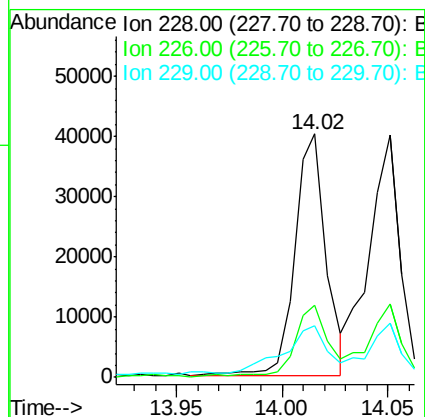
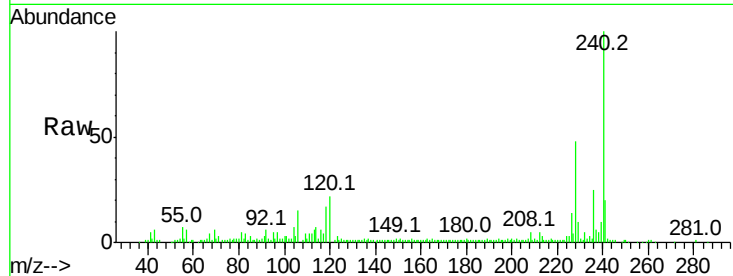
#80  
Benzo(a)anthracene  
Concen: 2.947 ng  
RT: 14.02 min Scan# 2028  
Delta R.T. 0.00 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

Instrument :  
BNA\_F  
ClientSampled :  
G72-1-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 22.6  | 33.8  |
| 229     | 21.3  | 15.8  | 23.6  |

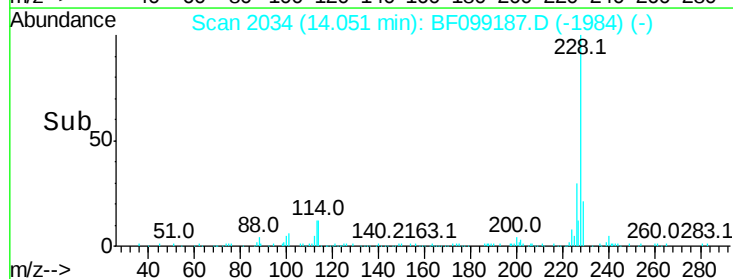
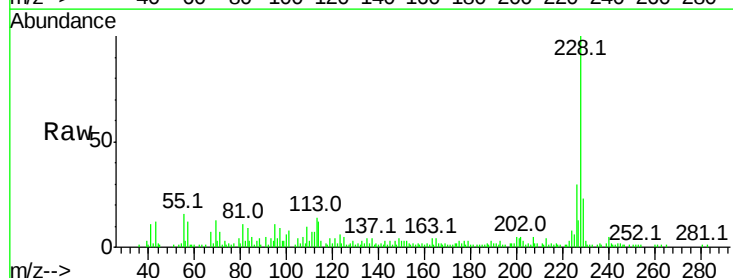
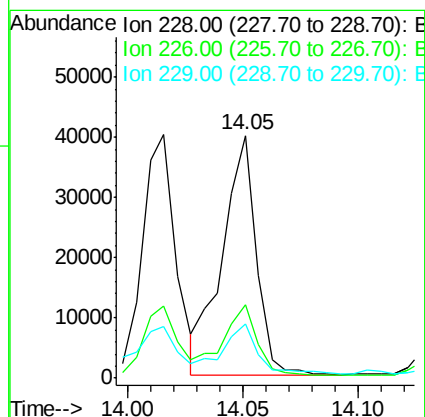
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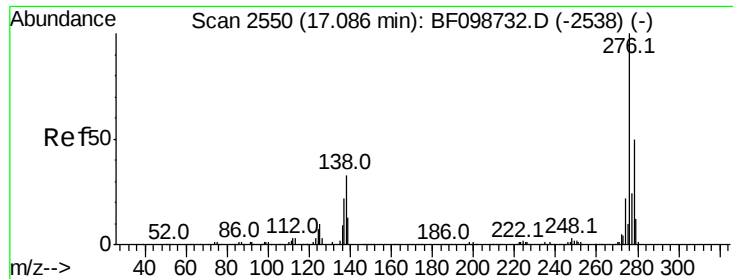
Sohil  
10/9/2017 6:33:47 PM



#82  
Chrysene  
Concen: 3.091 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.01 min  
Lab File: BF099187.D  
Acq: 7 Oct 2017 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 25.0  | 37.6  |
| 229     | 22.5  | 16.2  | 24.4  |





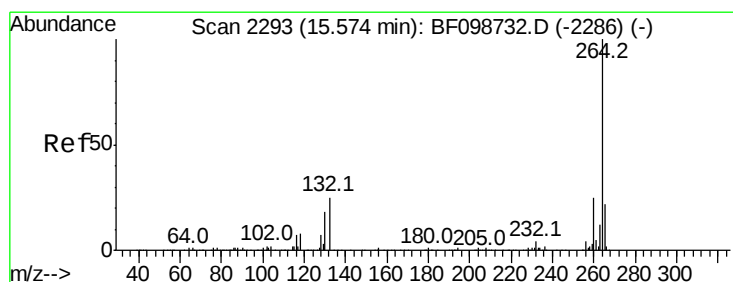
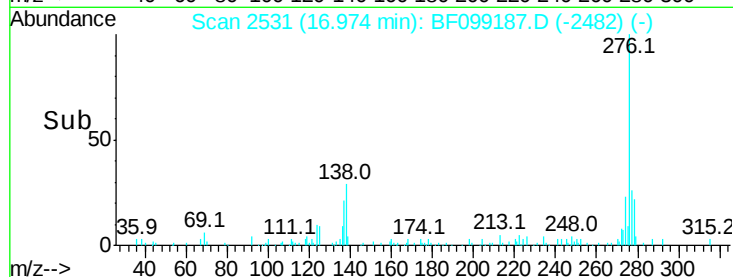
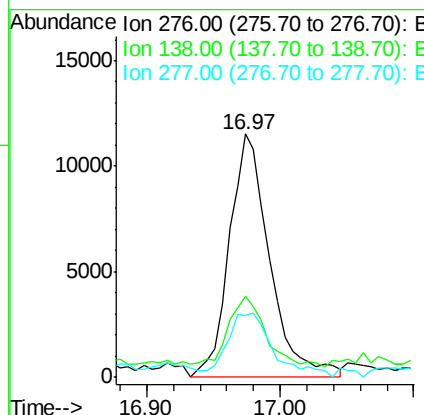
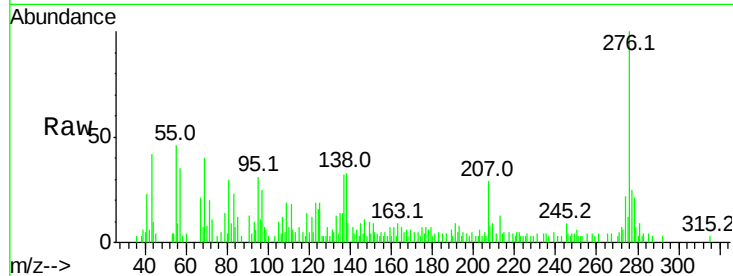
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.290 ng  
 RT: 16.97 min Scan# 2531  
 Delta R.T. -0.01 min  
 Lab File: BF099187.D  
 Acq: 7 Oct 2017 11:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G72-1-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.3  | 25.0  | 37.6  |
| 277     | 30.5  | 20.1  | 30.1# |

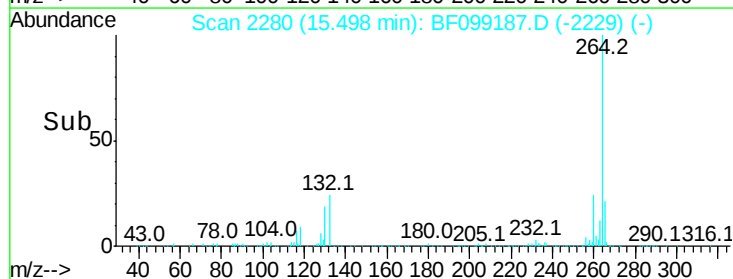
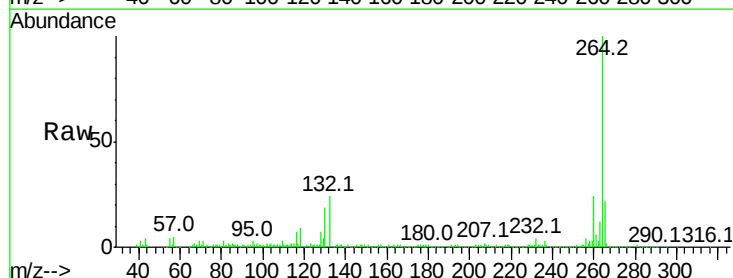
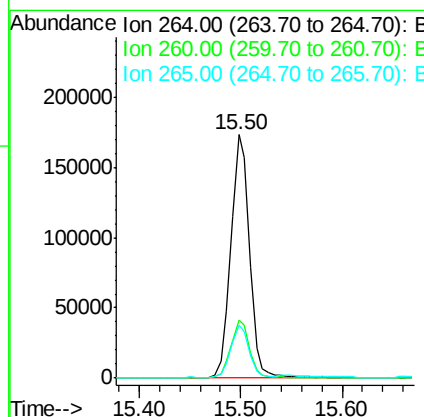
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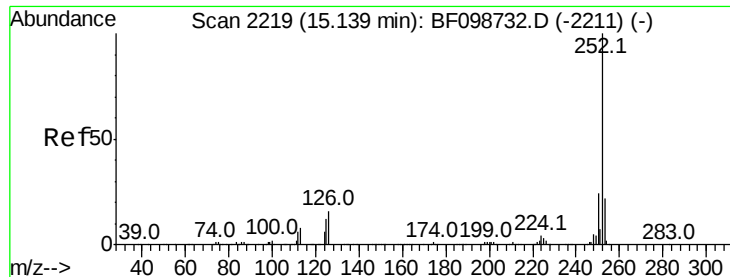
Sohil  
 10/9/2017 6:33:47 PM



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. 0.00 min  
 Lab File: BF099187.D  
 Acq: 7 Oct 2017 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 4.385 ng m

RT: 15.06 min Scan# 2206

Delta R.T. -0.01 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

Instrument :

BNA\_F

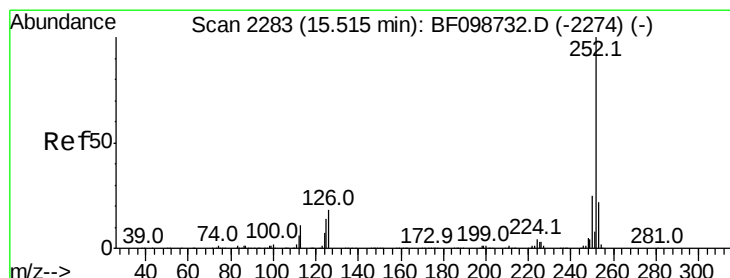
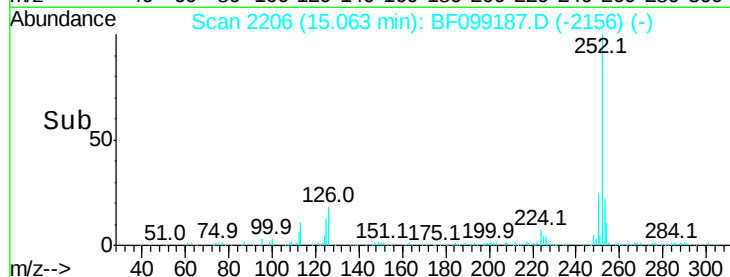
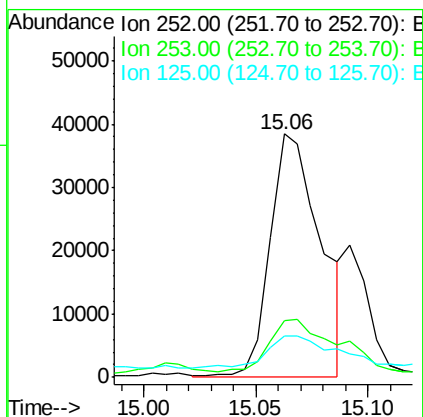
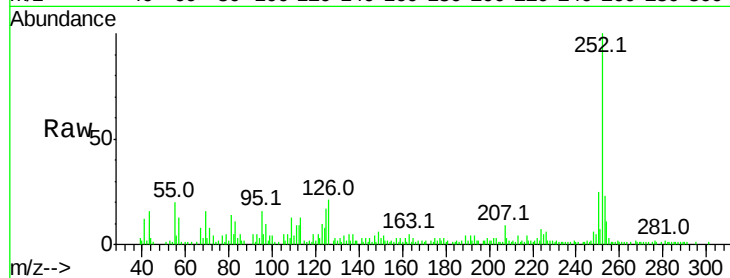
ClientSampleId :

G72-1-2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 60184 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.2  | 17.0  | 25.6  |
| 125       | 16.9  | 9.0   | 13.6# |

Manual Integrations  
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#89

Benzo(a)pyrene

Concen: 2.782 ng

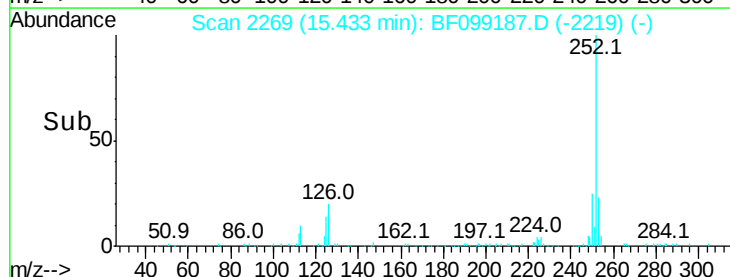
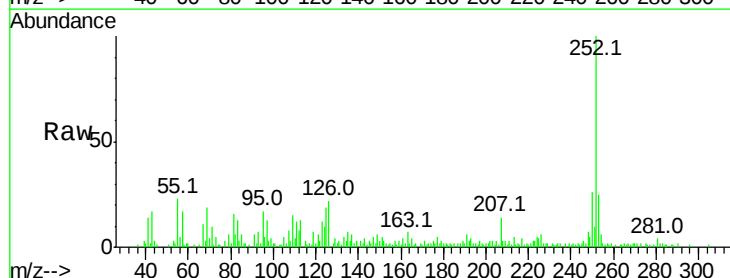
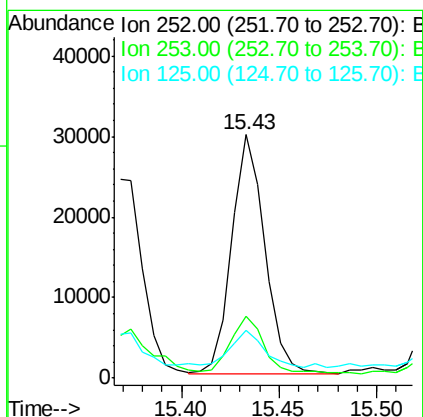
RT: 15.43 min Scan# 2269

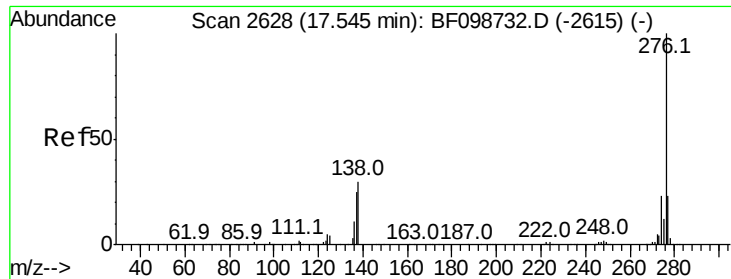
Delta R.T. -0.01 min

Lab File: BF099187.D

Acq: 7 Oct 2017 11:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 35058 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.3  | 17.1  | 25.7  |
| 125       | 19.5  | 9.8   | 14.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.318 ng  
 RT: 17.43 min Scan# 2608  
 Delta R.T. -0.01 min  
 Lab File: BF099187.D  
 Acq: 7 Oct 2017 11:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G72-1-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.7  | 17.9  | 26.9  |
| 138     | 33.5  | 21.8  | 32.8  |

Manual Integrations  
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