

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\  
 Data File : BF107620.D  
 Acq On : 24 Jul 2018 15:51  
 Operator : JU/SJ  
 Sample : J4096-05 2X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DW-7

Manual Integrations  
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 7/25/2018 12:58:12 PM

Quant Time: Jul 25 03:12:23 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.97  | 152  | 269028   | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8             | 8.25  | 136  | 1074176  | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10           | 10.01 | 164  | 456247   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10           | 11.50 | 188  | 787928   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12               | 14.15 | 240  | 564878   | 20.00  | ng    | -0.01       |
| 86) Perylene-d12               | 15.69 | 264  | 530831   | 20.00  | ng    | -0.01       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.60  | 112  | 597761   | 35.72  | ng    | 0.00        |
| 7) Phenol-d6                   | 6.60  | 99   | 801407   | 39.89  | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 7.53  | 82   | 462272   | 29.04  | ng    | -0.02       |
| 41) 2,4,6-Tribromophenol       | 10.80 | 330  | 167664   | 32.32  | ng    | -0.02       |
| 44) 2-Fluorobiphenyl           | 9.32  | 172  | 748520   | 20.76  | ng    | -0.02       |
| 78) Terphenyl-d14              | 13.08 | 244  | 550438   | 24.95  | ng    | -0.02       |
| Target Compounds               |       |      |          |        |       |             |
| 49) Dimethylphthalate          | 9.71  | 163  | 73109    | 2.126  | ng    | Qvalue # 98 |
| 70) Phenanthrene               | 11.52 | 178  | 155165   | 4.041  | ng    | 98          |
| 74) Fluoranthene               | 12.72 | 202  | 413754   | 10.042 | ng    | 97          |
| 77) Pyrene                     | 12.95 | 202  | 345273   | 8.936  | ng    | 97          |
| 80) Benzo(a)anthracene         | 14.14 | 228  | 151868   | 4.588  | ng    | 98          |
| 82) Chrysene                   | 14.18 | 228  | 178479   | 5.613  | ng    | 97          |
| 83) Bis(2-ethylhexyl)phthalate | 14.11 | 149  | 73083    | 3.117  | ng    | 95          |
| 85) Indeno(1,2,3-cd)pyrene     | 17.26 | 276  | 141038   | 5.233  | ng    | # 85        |
| 87) Benzo(b)fluoranthene       | 15.23 | 252  | 251702m  | 8.664  | ng    |             |
| 88) Benzo(k)fluoranthene       | 15.25 | 252  | 95136m   | 3.342  | ng    |             |
| 89) Benzo(a)pyrene             | 15.62 | 252  | 151238   | 5.691  | ng    | # 86        |
| 91) Benzo(a,h,i)perylene       | 17.74 | 276  | 136484   | 6.023  | ng    | 93          |

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

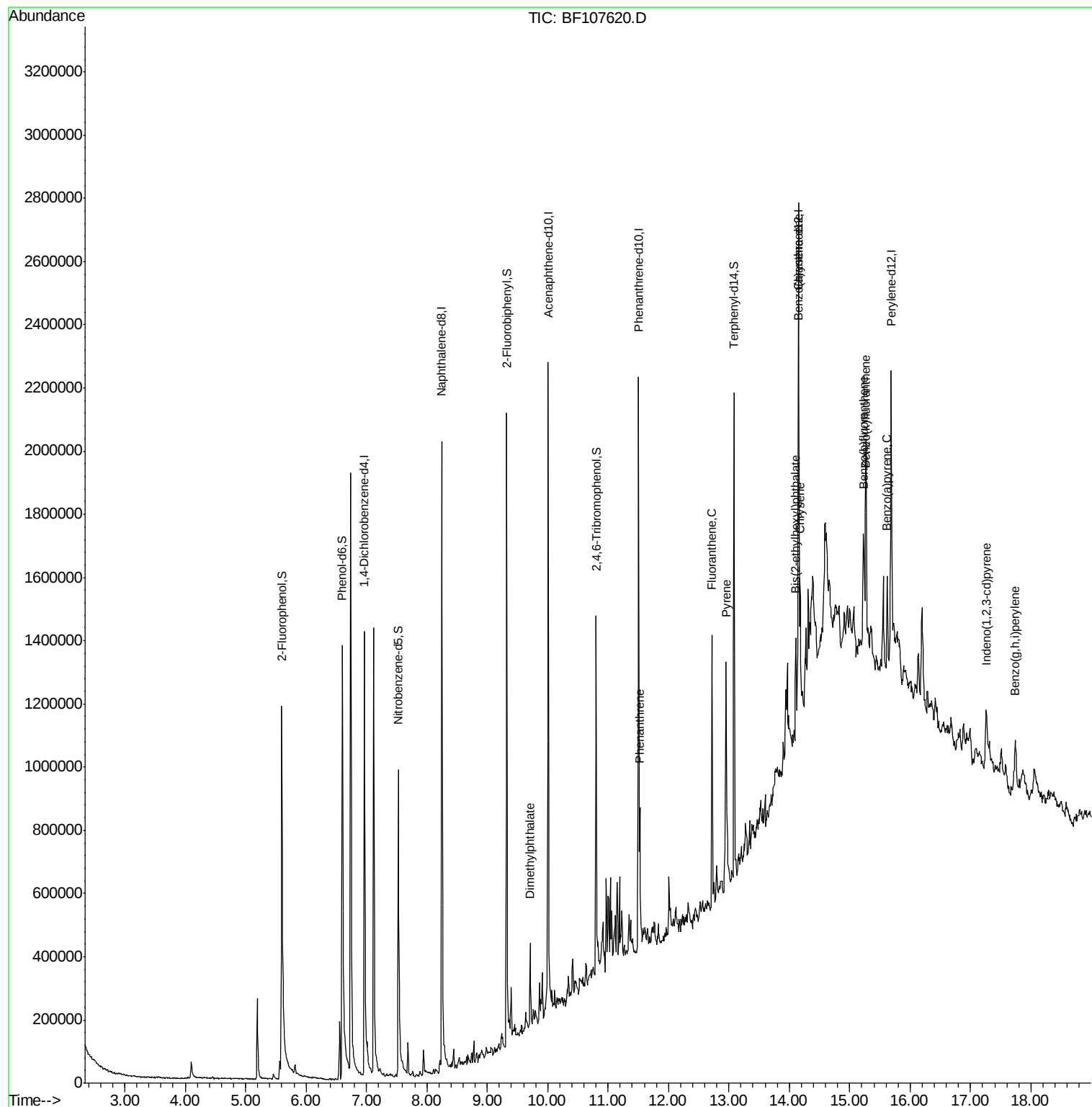
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072418\  
Data File : BF107620.D  
Acq On : 24 Jul 2018 15:51  
Operator : JU/SJ  
Sample : J4096-05 2X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

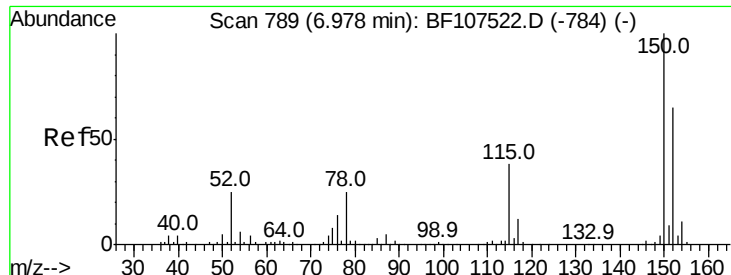
Instrument :  
BNA\_F  
ClientSampleId :  
DW-7

Quant Time: Jul 25 03:12:23 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 20 16:29:27 2018  
Response via : Initial Calibration

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#1

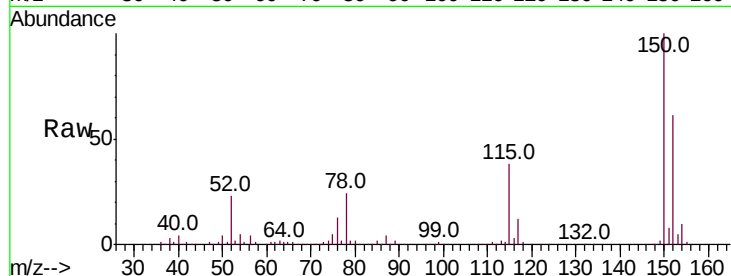
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 787  
Delta R.T. -0.01 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

Instrument :  
BNA\_F  
ClientSampleId :  
DW-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 164.4 | 124.6 | 186.8 |
| 115     | 61.9  | 50.1  | 75.1  |

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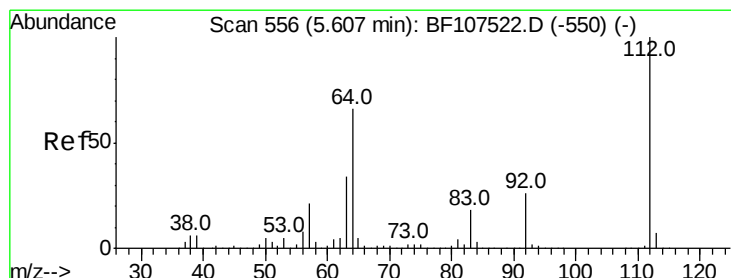
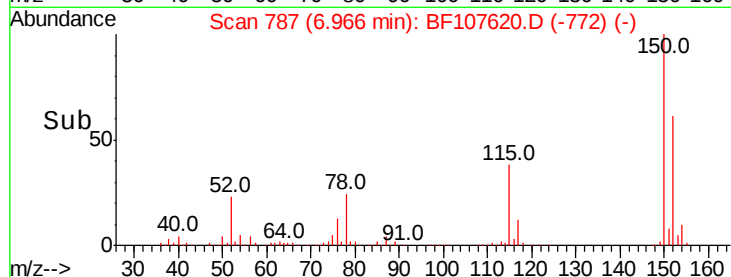
Abundance

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

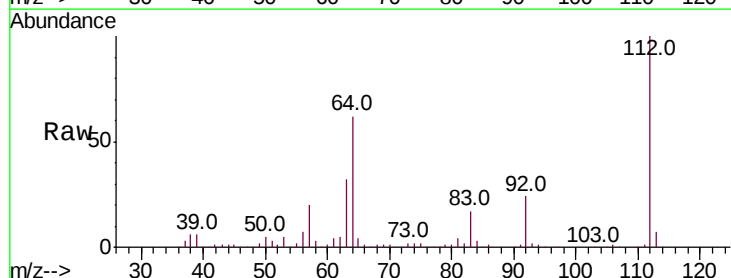
Time-->



#5

2-Fluorophenol  
Concen: 35.724 ng  
RT: 5.60 min Scan# 555  
Delta R.T. -0.01 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.2  | 47.9  | 71.9  |
| 63      | 31.6  | 23.7  | 35.5  |



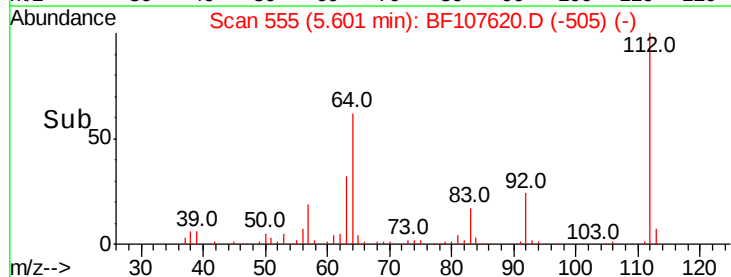
Abundance

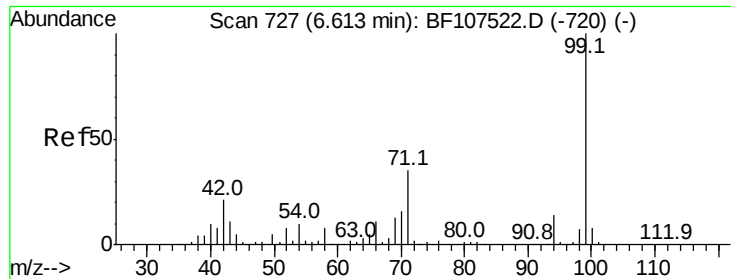
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 39.888 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

Instrument :

BNA\_F

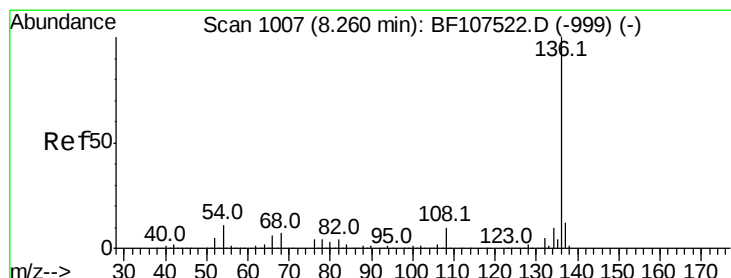
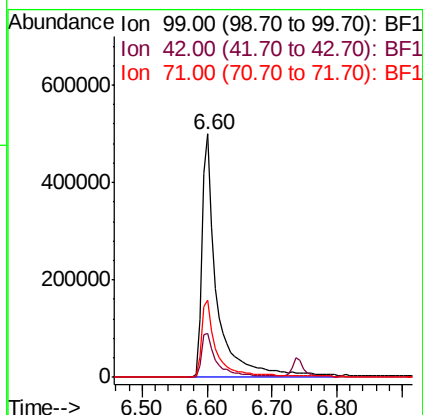
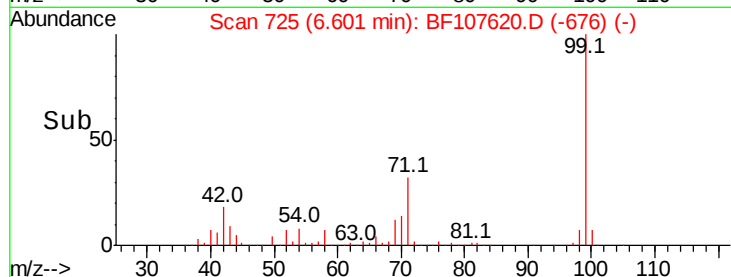
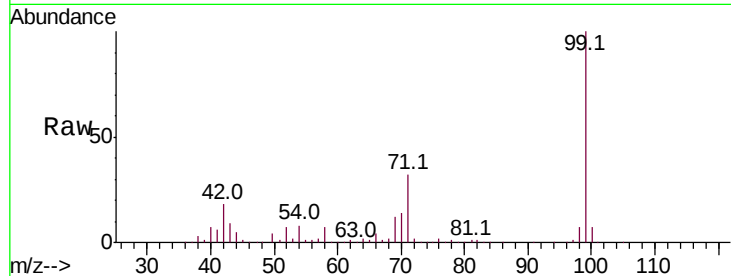
ClientSampleId :

DW-7

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 801407 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.8  | 14.5  | 21.7   |
| 71        | 31.8  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

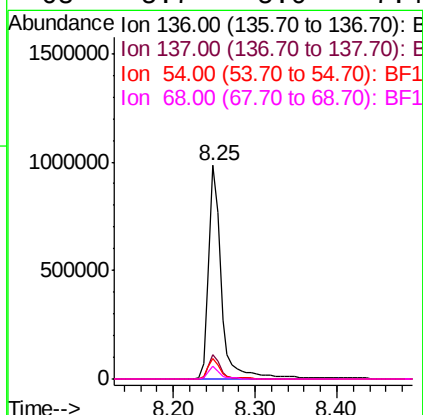
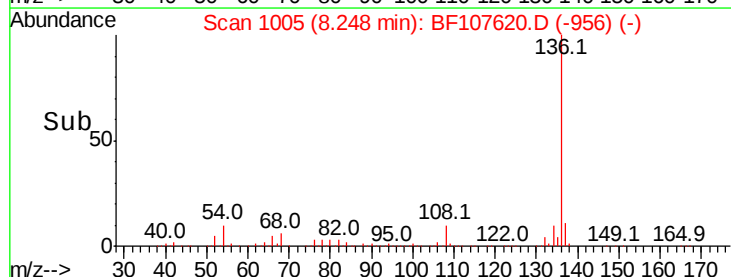
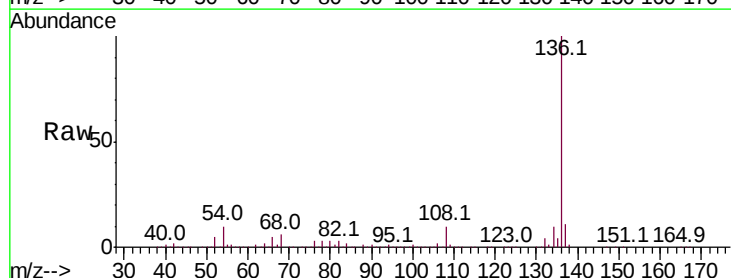
RT: 8.25 min Scan# 1005

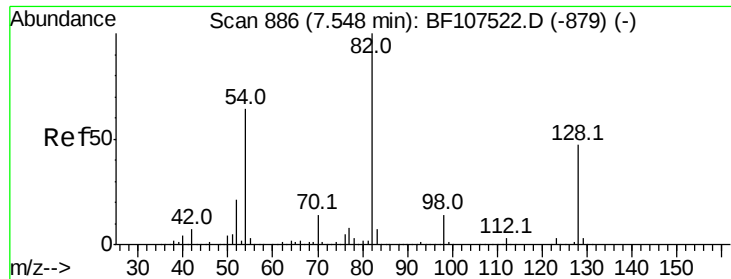
Delta R.T. -0.01 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 136   | Resp: | 1074176 |
| Ion Ratio | Lower | Upper |         |
| 136       | 100   |       |         |
| 137       | 11.1  | 8.9   | 13.3    |
| 54        | 9.9   | 6.6   | 9.8#    |
| 68        | 5.7   | 5.0   | 7.4     |





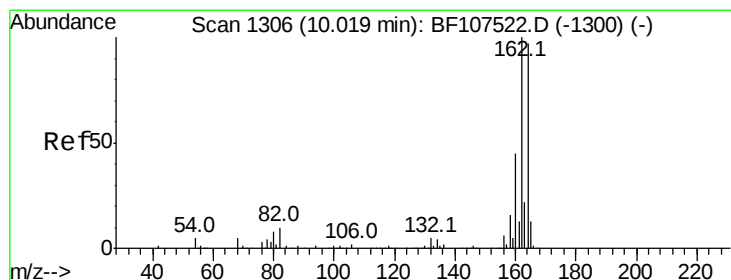
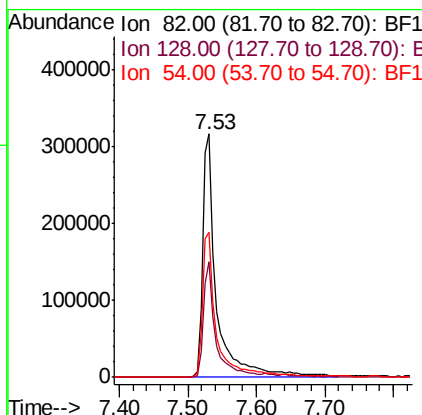
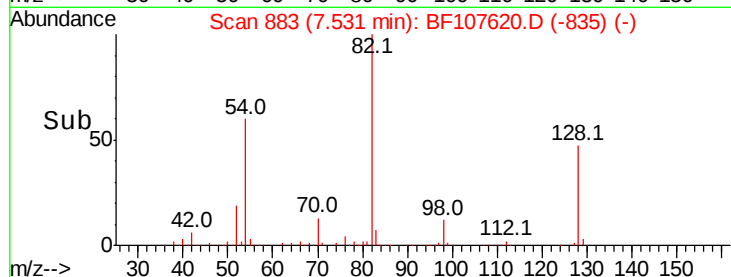
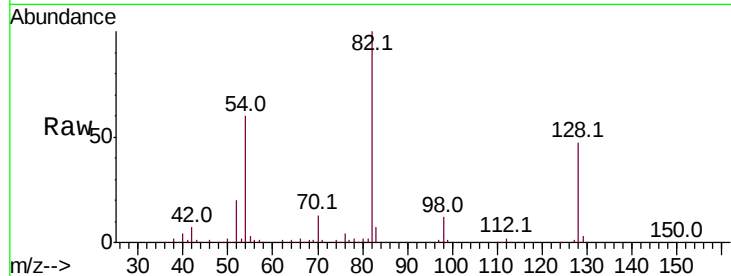
#23  
Nitrobenzene-d5  
Concen: 29.043 ng  
RT: 7.53 min Scan# 883  
Delta R.T. -0.02 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

Instrument :  
BNA\_F  
ClientSampleId :  
DW-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 47.3  | 36.1  | 54.1  |
| 54      | 59.8  | 41.4  | 62.2  |

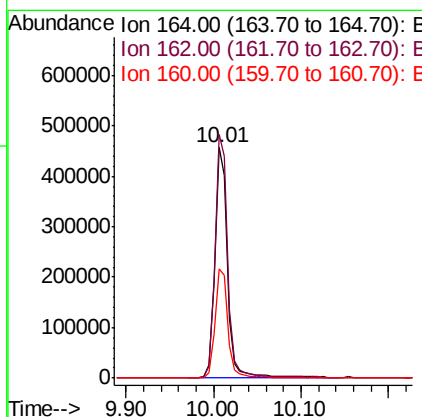
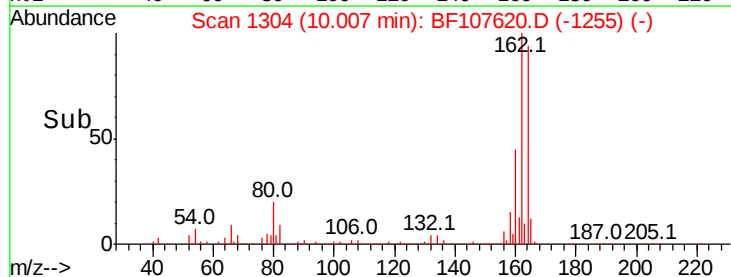
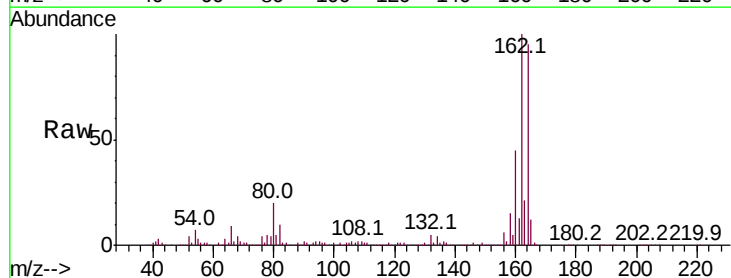
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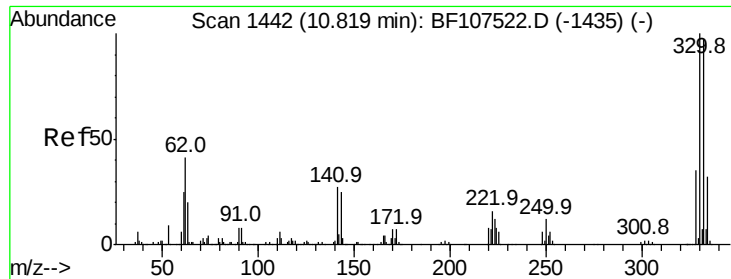
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.01 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.7 | 86.1  | 129.1 |
| 160     | 47.4  | 38.3  | 57.5  |





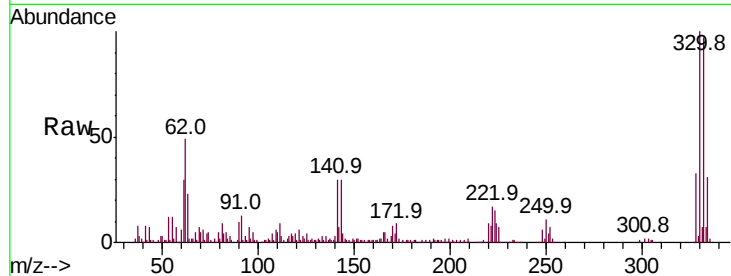
#41  
 2,4,6-Tribromophenol  
 Concen: 32.316 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. -0.02 min  
 Lab File: BF107620.D  
 Acq: 24 Jul 2018 15:51

Instrument :  
 BNA\_F  
 ClientSampled :  
 DW-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.0  | 77.0  | 115.6 |
| 141     | 28.9  | 29.9  | 44.9# |

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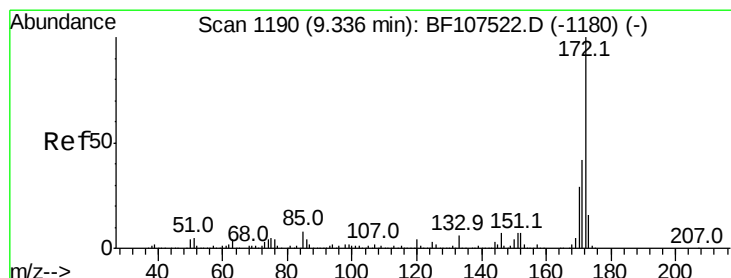
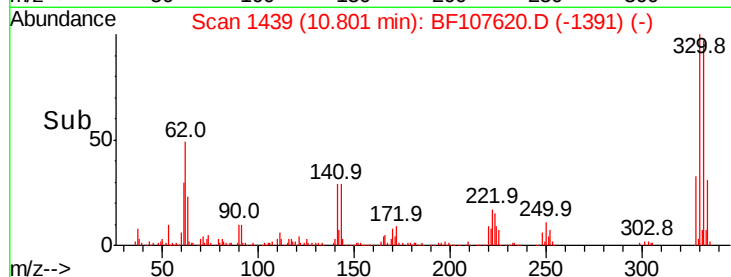
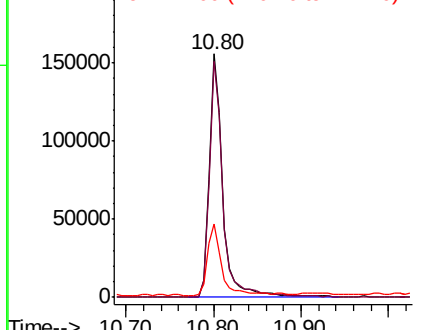


Abundance

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: 20.758 ng  
 RT: 9.32 min Scan# 1187  
 Delta R.T. -0.02 min  
 Lab File: BF107620.D  
 Acq: 24 Jul 2018 15:51

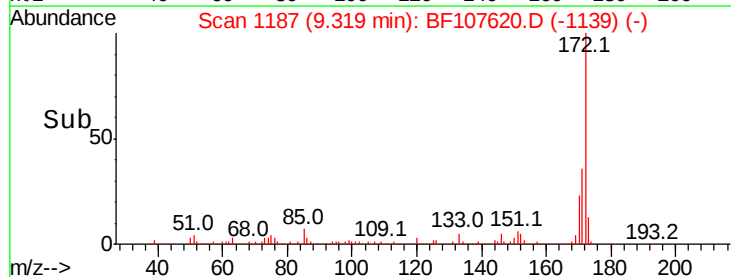
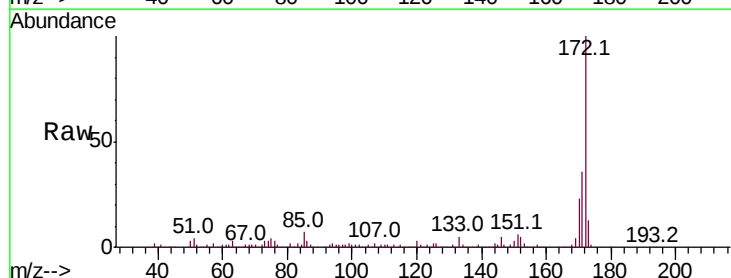
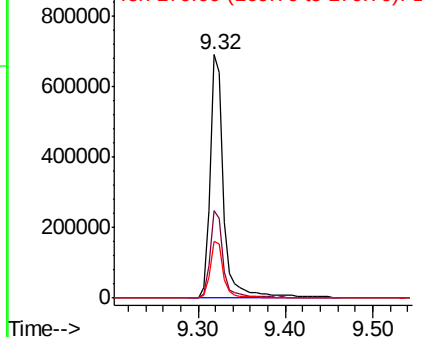
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.7  | 44.5  |
| 170     | 23.5  | 19.6  | 29.4  |

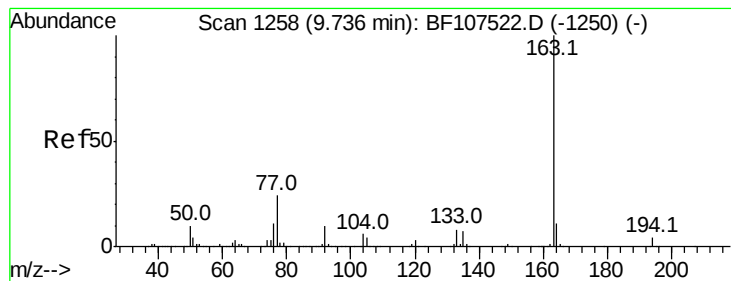
Abundance

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: 2.126 ng

RT: 9.71 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

Instrument :

BNA\_F

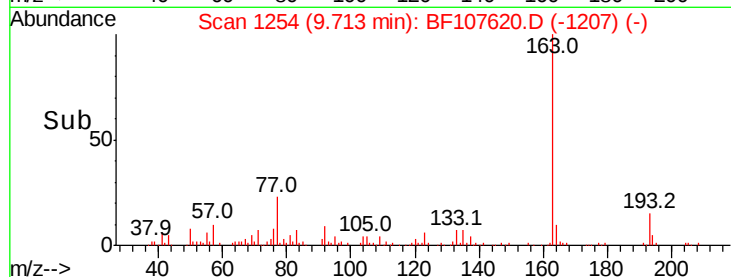
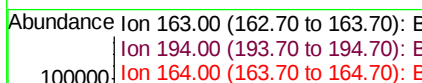
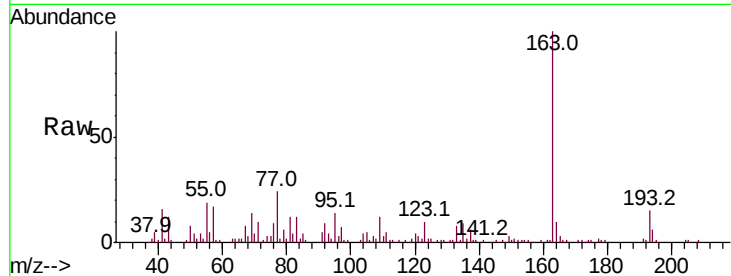
ClientSampled :

DW-7

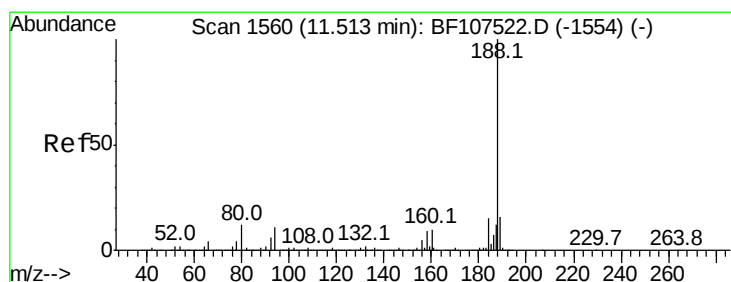
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 73109 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 5.6   | 2.7   | 4.1#  |
| 164       | 10.3  | 8.2   | 12.2  |

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Time-->



#63

Phenanthrene-d10

Concen: 20.000 ng

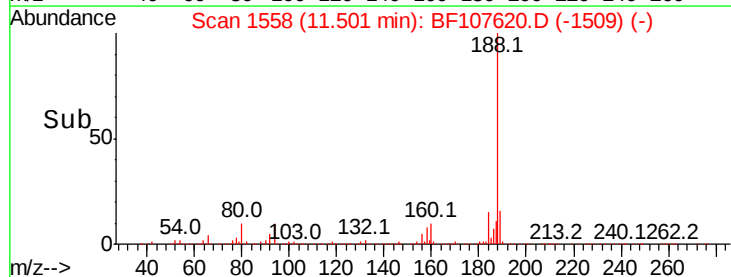
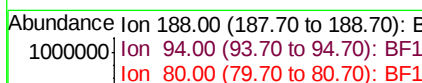
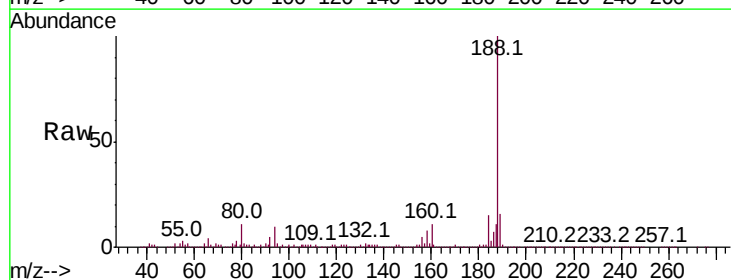
RT: 11.50 min Scan# 1558

Delta R.T. -0.01 min

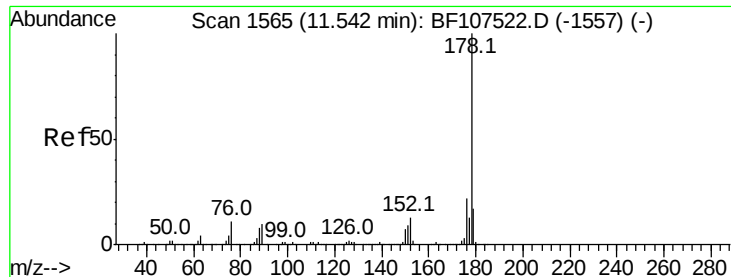
Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 787928 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.1  | 8.5   | 12.7   |
| 80        | 10.5  | 9.2   | 13.8   |



Time-->



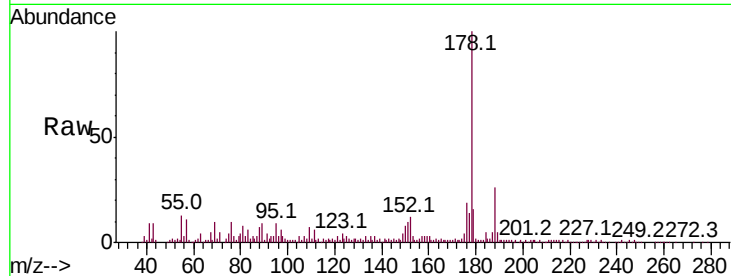
#70  
Phenanthrene  
Concen: 4.041 ng  
RT: 11.52 min Scan# 1562  
Delta R.T. -0.02 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

Instrument :  
BNA\_F  
ClientSampleId :  
DW-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.8  | 23.8  |
| 179     | 15.6  | 13.0  | 19.6  |

Manual Integrations  
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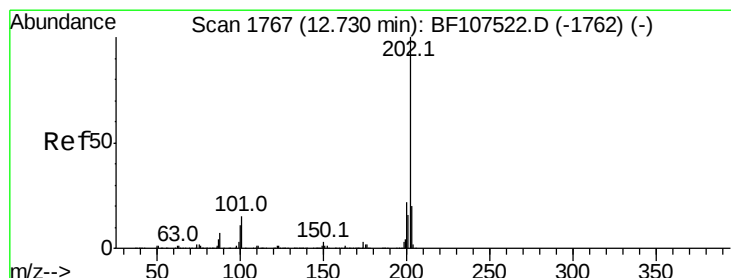
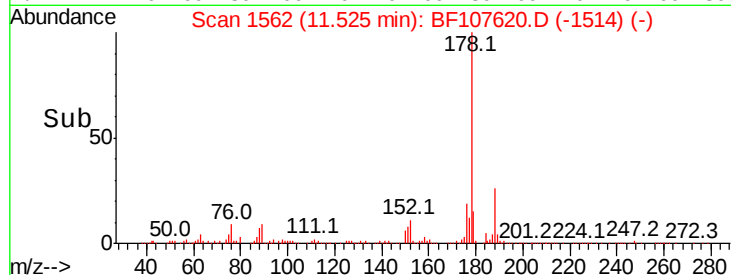
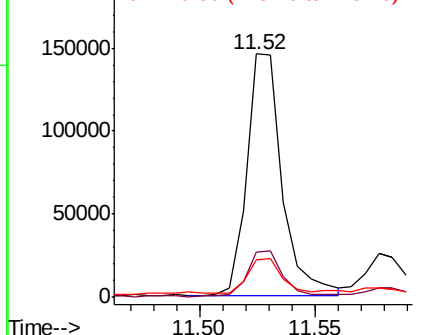


Abundance

Ion 178.00 (177.70 to 178.70): E

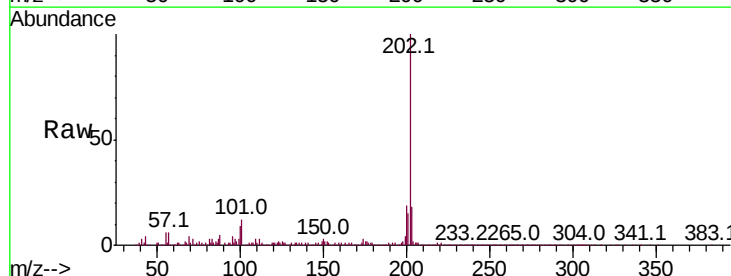
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74  
Fluoranthene  
Concen: 10.042 ng  
RT: 12.72 min Scan# 1765  
Delta R.T. -0.01 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.9  | 0.0   | 34.1  |
| 203     | 17.6  | 0.0   | 38.1  |

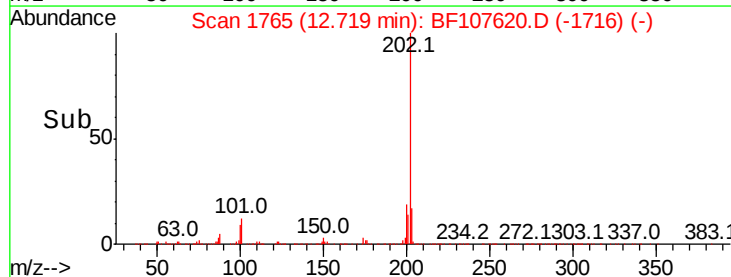
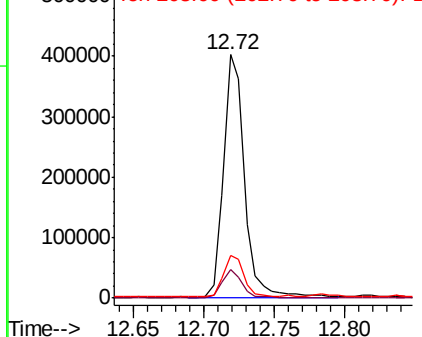


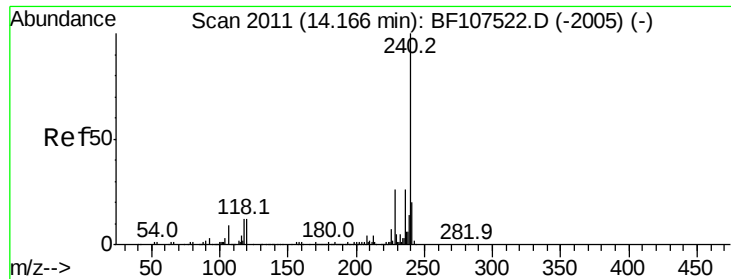
Abundance

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: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

Instrument :

BNA\_F

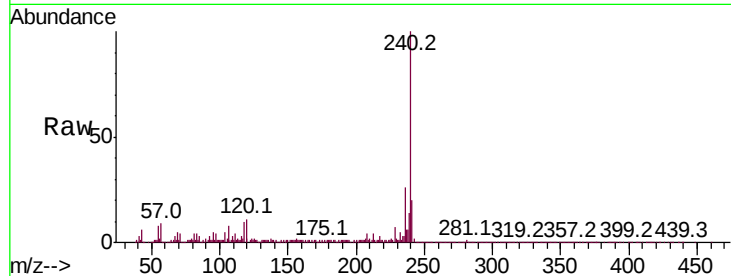
ClientSampleId :

DW-7

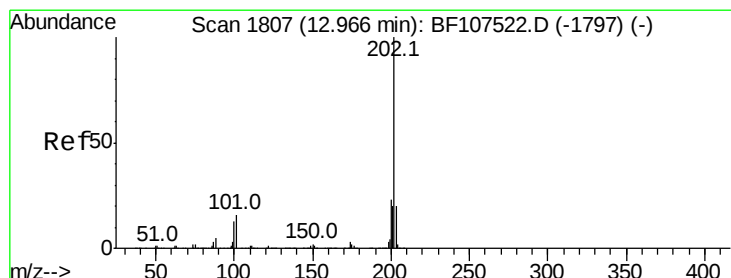
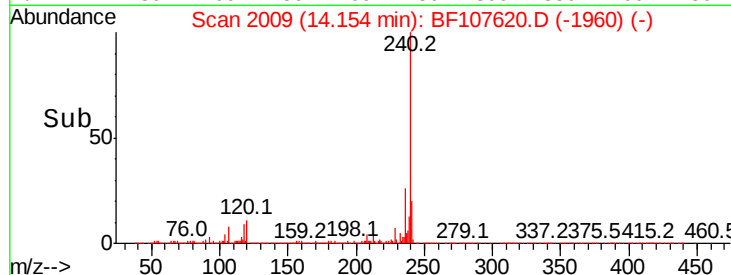
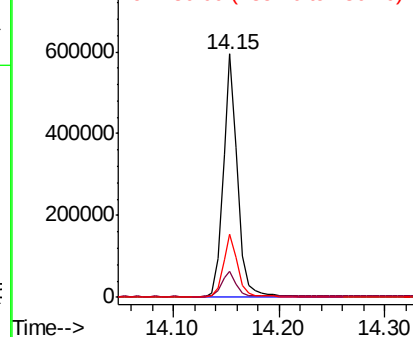
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 564878 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.8  | 9.5   | 14.3   |
| 236       | 25.8  | 20.7  | 31.1   |

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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: 8.936 ng

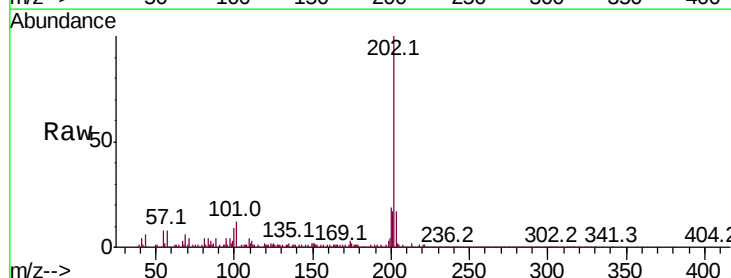
RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

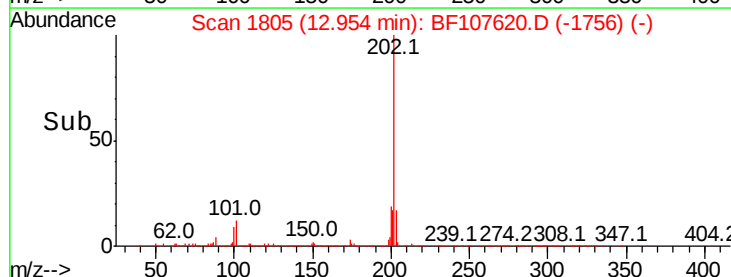
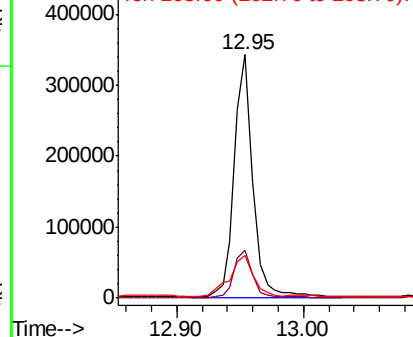
Lab File: BF107620.D

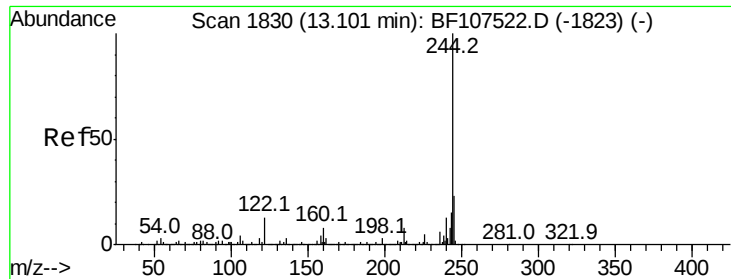
Acq: 24 Jul 2018 15:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 345273 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 19.4  | 17.4  | 26.2   |
| 203       | 17.4  | 14.3  | 21.5   |



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: 24.946 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

Instrument :

BNA\_F

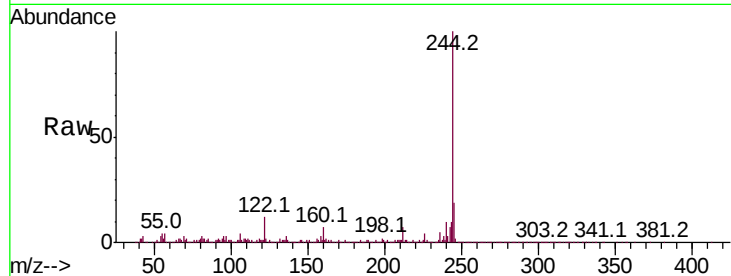
ClientSampleId :

DW-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.4   | 8.0   |
| 122     | 11.7  | 11.0  | 16.4  |

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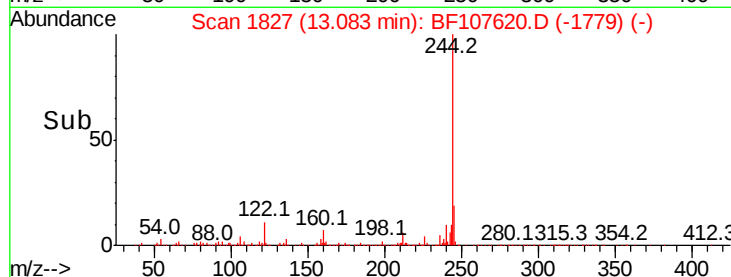
Abundance

Ion 244.00 (243.70 to 244.70): E

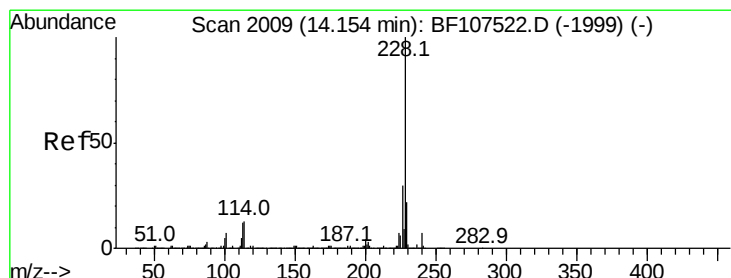
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

13.08



Time--> 13.00 13.10 13.20



#80

Benzo(a)anthracene

Concen: 4.588 ng

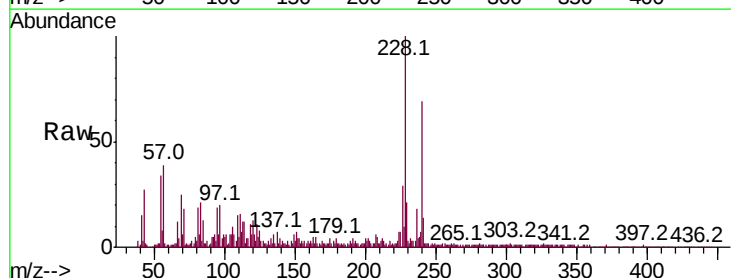
RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.8  | 22.6  | 33.8  |
| 229     | 21.3  | 15.8  | 23.6  |



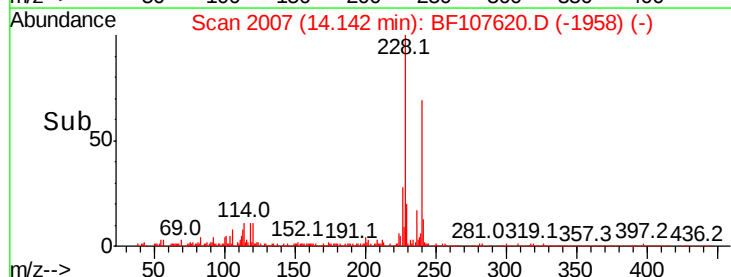
Abundance

Ion 228.00 (227.70 to 228.70): E

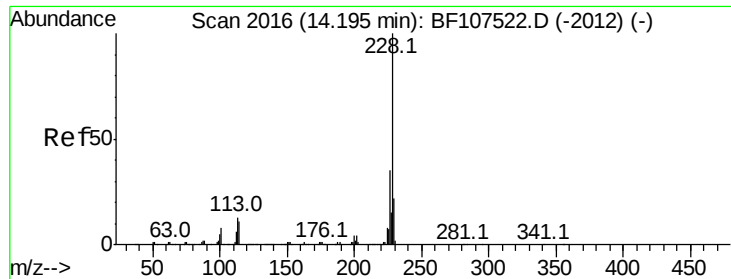
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

14.14



Time--> 14.05 14.10 14.15



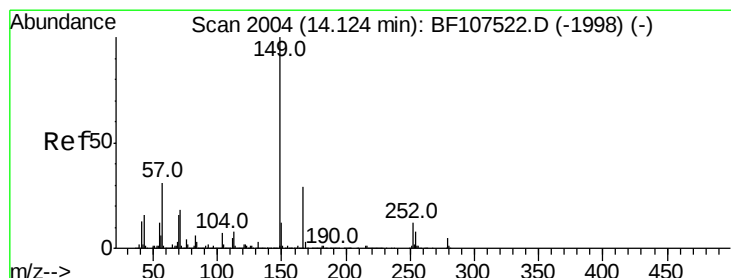
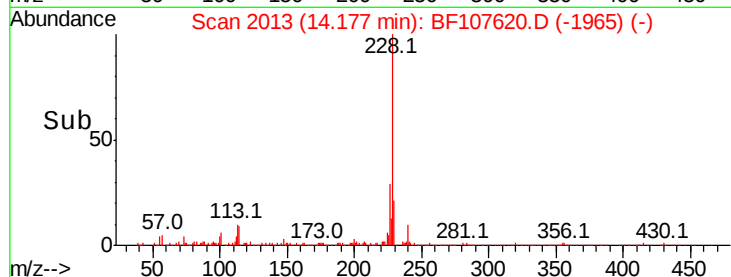
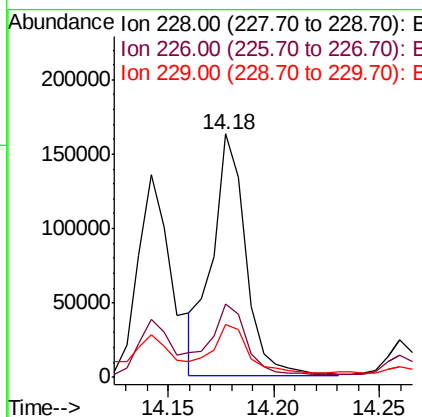
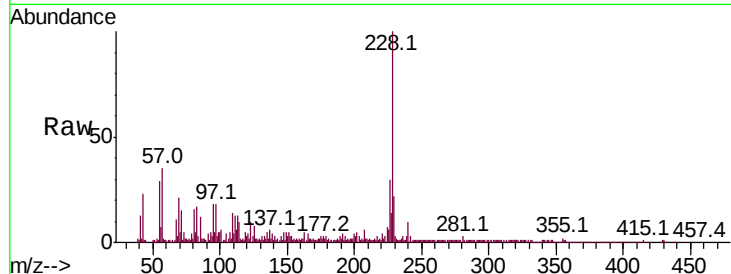
#82  
Chrysene  
Concen: 5.613 ng  
RT: 14.18 min Scan# 2013  
Delta R.T. -0.02 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

Instrument :  
BNA\_F  
ClientSampled :  
DW-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 25.0  | 37.6  |
| 229     | 21.8  | 16.2  | 24.4  |

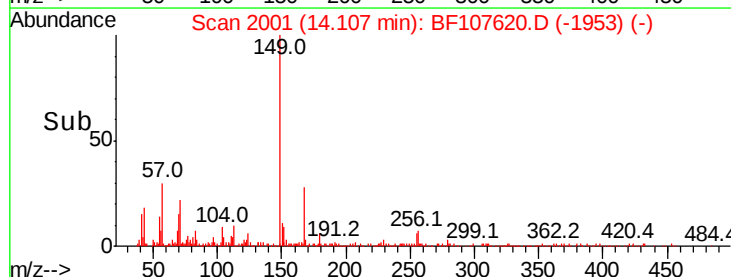
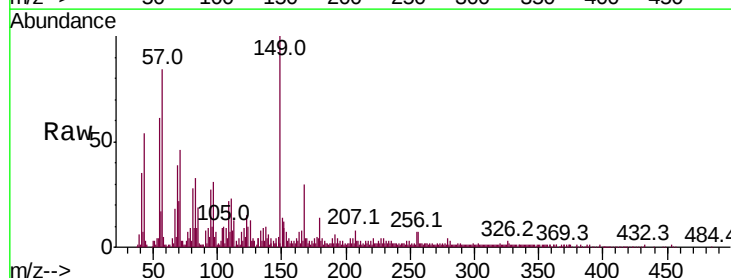
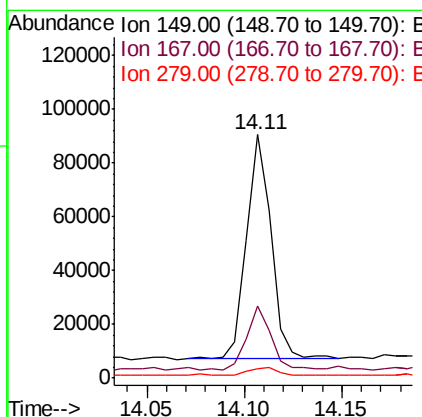
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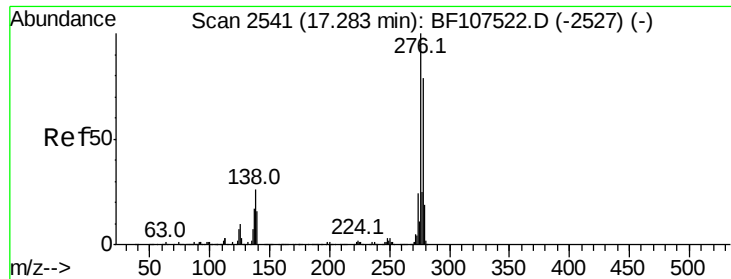
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#83  
Bis(2-ethylhexyl)phthalate  
Concen: 3.117 ng  
RT: 14.11 min Scan# 2001  
Delta R.T. -0.02 min  
Lab File: BF107620.D  
Acq: 24 Jul 2018 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 29.6  | 21.3  | 31.9  |
| 279     | 3.9   | 3.0   | 4.4   |





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.233 ng

RT: 17.26 min Scan# 2537

Delta R.T. -0.02 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

Instrument :

BNA\_F

ClientSampleId :

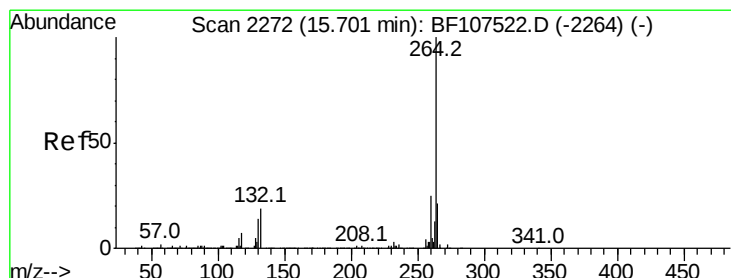
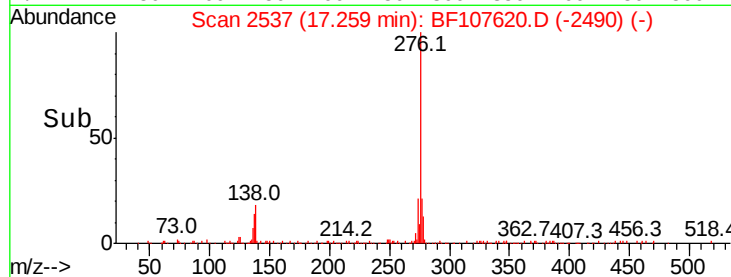
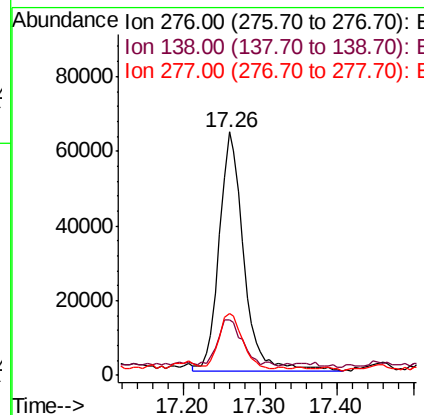
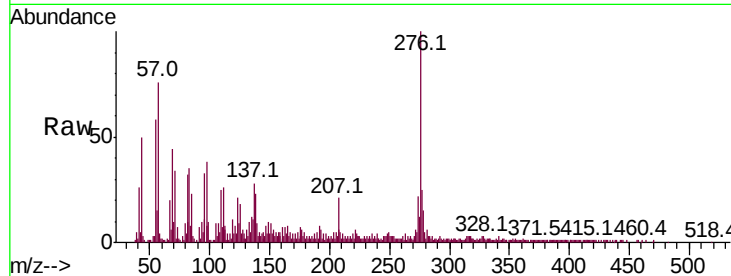
DW-7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.3  | 25.0  | 37.6# |
| 277     | 21.9  | 20.1  | 30.1  |

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#86

Perylene-d12

Concen: 20.000 ng

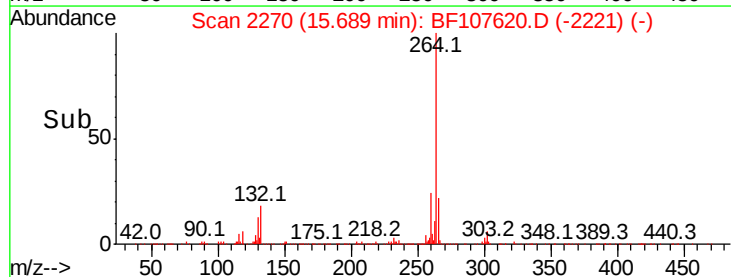
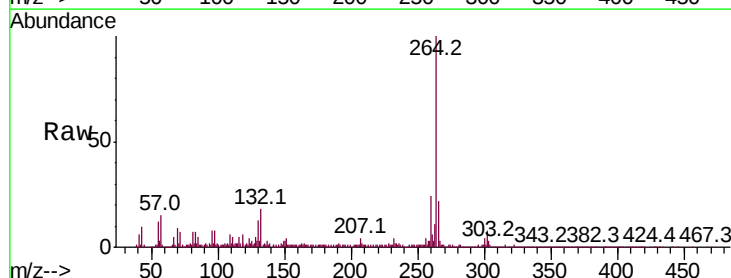
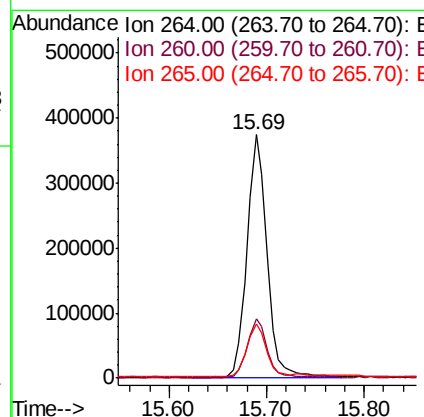
RT: 15.69 min Scan# 2270

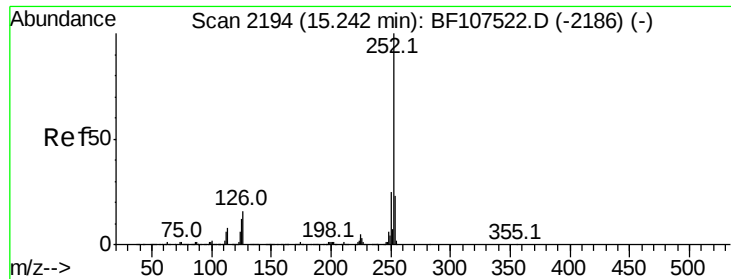
Delta R.T. -0.01 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.2  | 28.8  |
| 265     | 22.5  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 8.664 ng m

RT: 15.23 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

Instrument :

BNA\_F

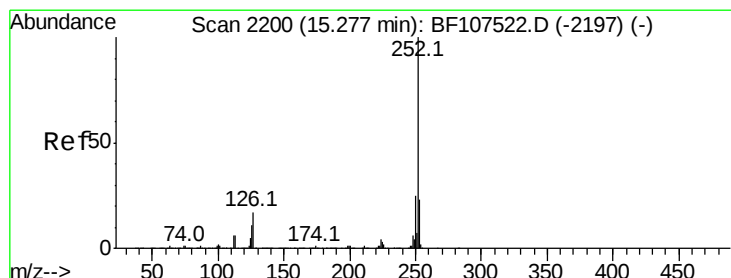
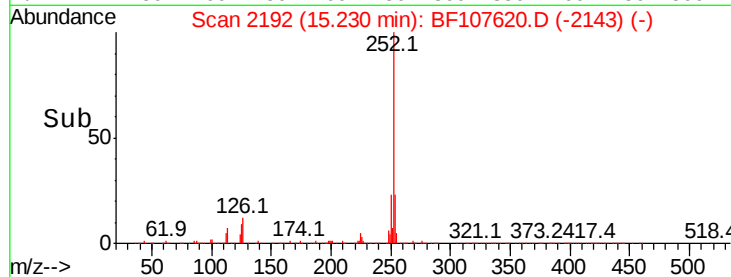
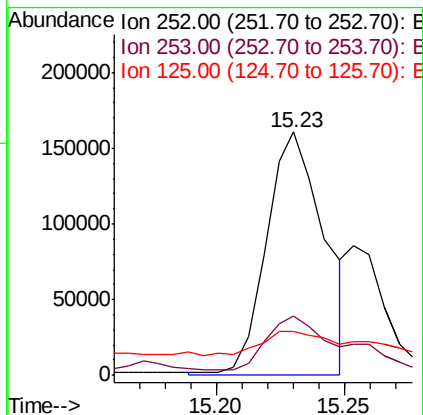
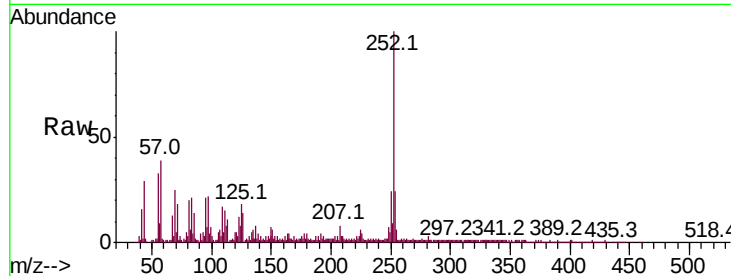
ClientSampleId :

DW-7

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 251702 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.2  | 17.0  | 25.6   |
| 125       | 18.1  | 9.0   | 13.6#  |

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#88

Benzo(k)fluoranthene

Concen: 3.342 ng m

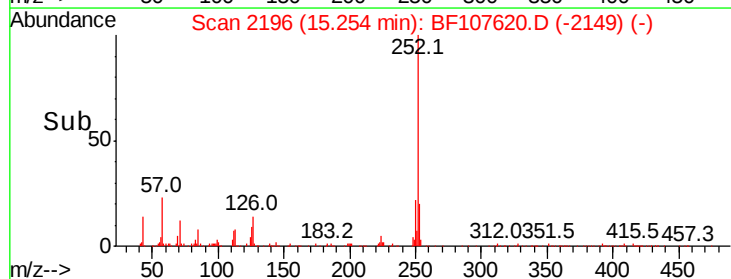
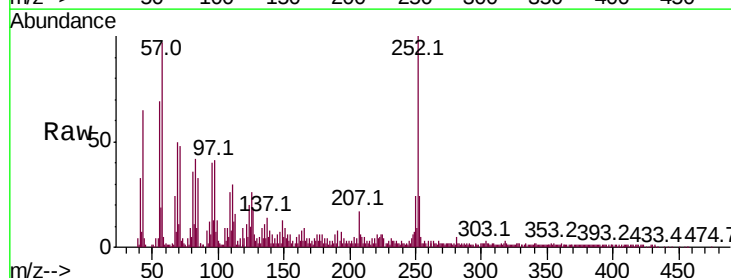
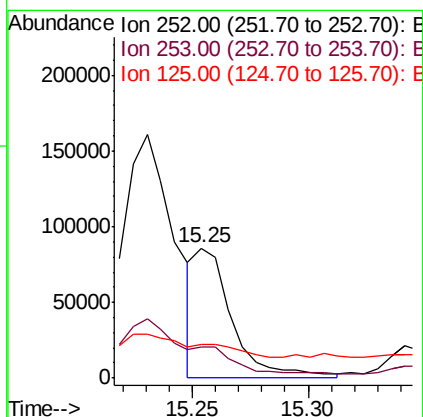
RT: 15.25 min Scan# 2196

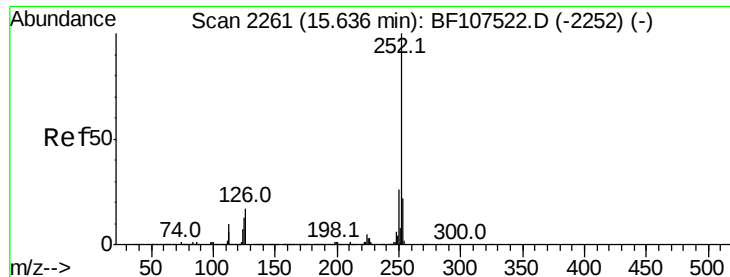
Delta R.T. -0.02 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 95136 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 17.9  | 26.9  |
| 125       | 25.8  | 10.2  | 15.2# |





#89

Benzo(a)pyrene

Concen: 5.691 ng

RT: 15.62 min Scan# 2258

Delta R.T. -0.02 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

Instrument :

BNA\_F

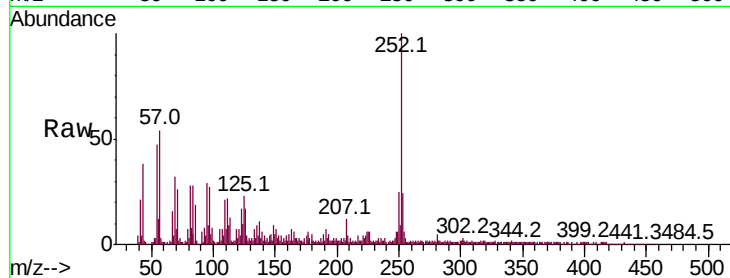
ClientSampleId :

DW-7

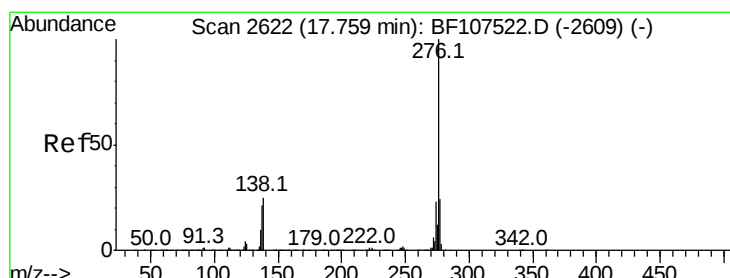
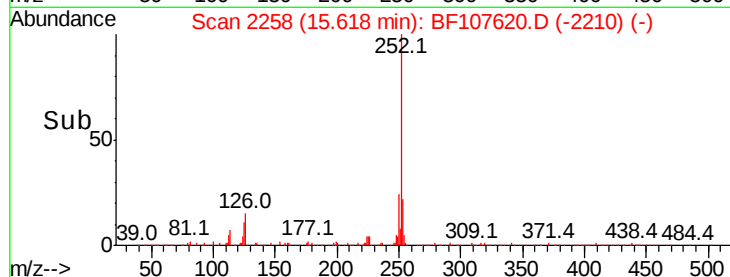
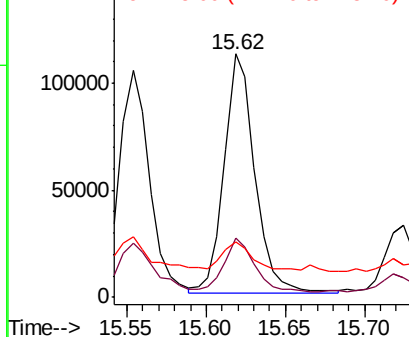
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 151238 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.2  | 17.1  | 25.7   |
| 125       | 22.9  | 9.8   | 14.6#  |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 6.023 ng

RT: 17.74 min Scan# 2619

Delta R.T. -0.02 min

Lab File: BF107620.D

Acq: 24 Jul 2018 15:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 136484 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 26.8  | 17.9  | 26.9   |
| 138       | 24.2  | 21.8  | 32.8   |

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

