

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090718\  
 Data File : BF108860.D  
 Acq On : 7 Sep 2018 15:05  
 Operator : JU/SJ  
 Sample : J4825-17  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP1-WS-COMP-17

Manual Integrations  
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Sohil  
 9/10/2018 10:39:21 AM

Quant Time: Sep 07 15:43:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 05 18:03:31 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.74  | 152  | 214147   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.02  | 136  | 803799   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.77  | 164  | 374786   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.24 | 188  | 644324   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.87 | 240  | 423916   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.28 | 264  | 538354   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.35  | 112  | 1019920  | 78.90  | ng    | 0.01     |
| 7) Phenol-d6                | 6.37  | 99   | 1317180  | 79.20  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 814338   | 63.40  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 286399   | 80.05  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 1448297  | 65.92  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.82 | 244  | 1062786  | 58.46  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.48  | 163  | 373784   | 14.259 | ng    | 99       |
| 70) Phenanthrene            | 11.27 | 178  | 150046   | 4.876  | ng    | 98       |
| 74) Fluoranthene            | 12.45 | 202  | 217044   | 7.124  | ng    | 98       |
| 77) Pyrene                  | 12.68 | 202  | 209970   | 6.437  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.86 | 228  | 103386   | 3.805  | ng    | 95       |
| 82) Chrysene                | 13.89 | 228  | 98250m   | 3.735  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.62 | 276  | 81058    | 3.482  | ng    | 93       |
| 87) Benzo(b)fluoranthene    | 14.88 | 252  | 167991m  | 5.739  | ng    |          |
| 89) Benzo(a)pyrene          | 15.21 | 252  | 120967   | 4.580  | ng    | # 93     |
| 91) Benzo(g,h,i)perylene    | 17.04 | 276  | 78359    | 3.363  | ng    | 96       |

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

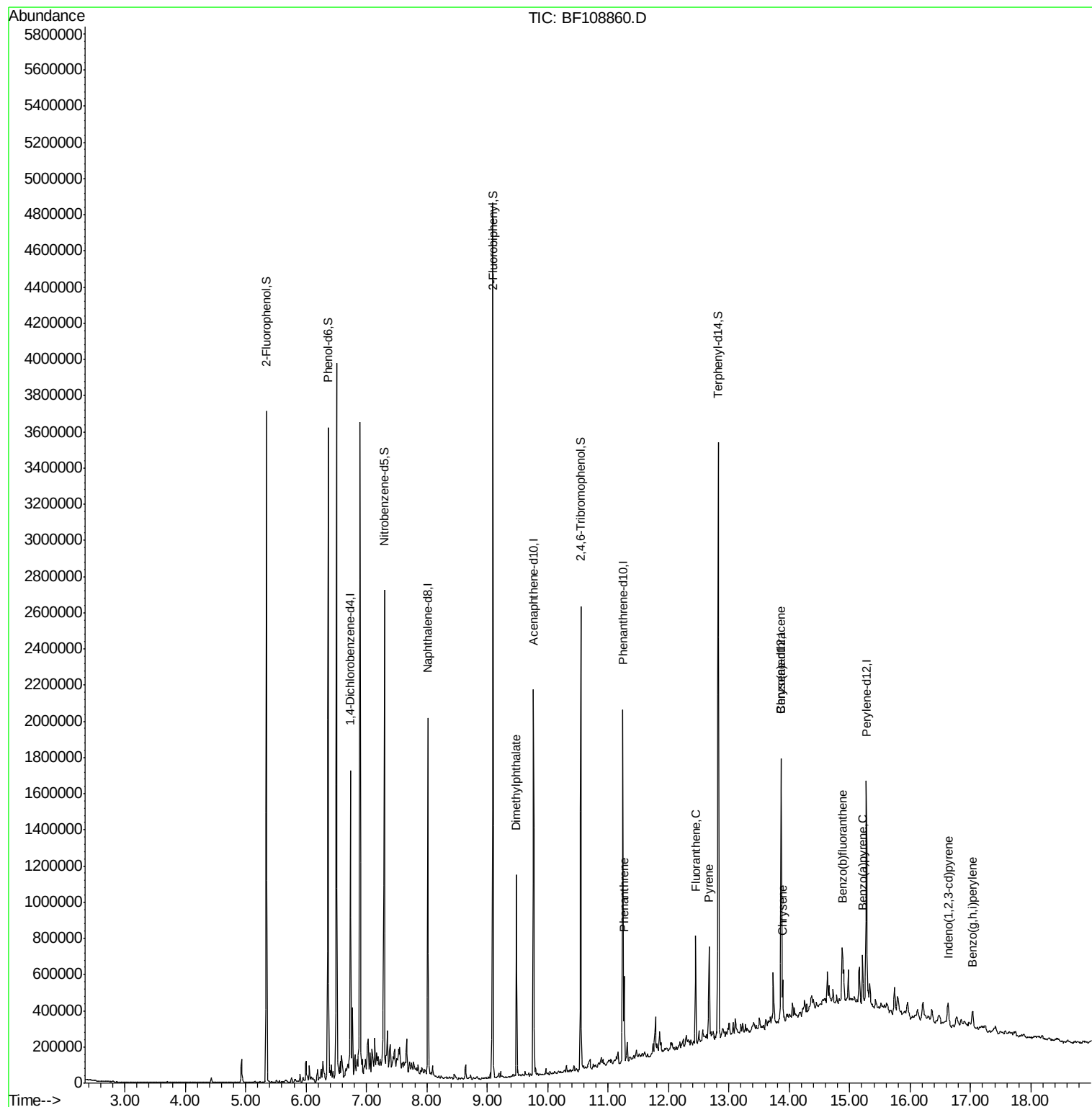
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090718\  
Data File : BF108860.D  
Acq On : 7 Sep 2018 15:05  
Operator : JU/SJ  
Sample : J4825-17  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

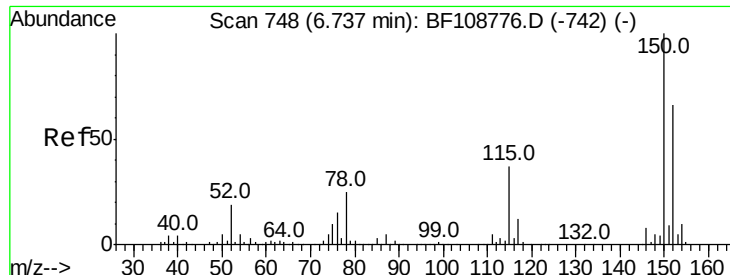
Instrument :  
BNA\_F  
ClientSampleId :  
EP1-WS-COMP-17

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Quant Time: Sep 07 15:43:04 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 05 18:03:31 2018  
Response via : Initial Calibration





#1

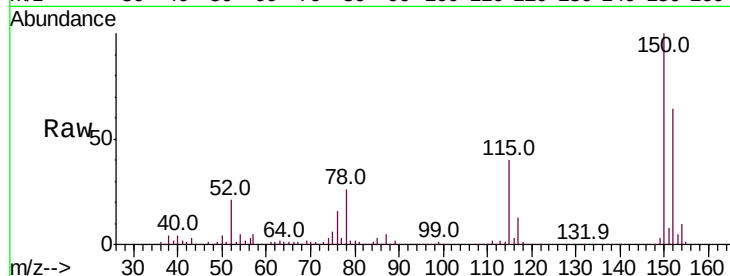
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.74 min Scan# 748  
Delta R.T. -0.00 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

Instrument :  
BNA\_F  
ClientSampleId :  
EP1-WS-COMP-17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.0 | 124.6 | 186.8 |
| 115     | 61.3  | 50.1  | 75.1  |

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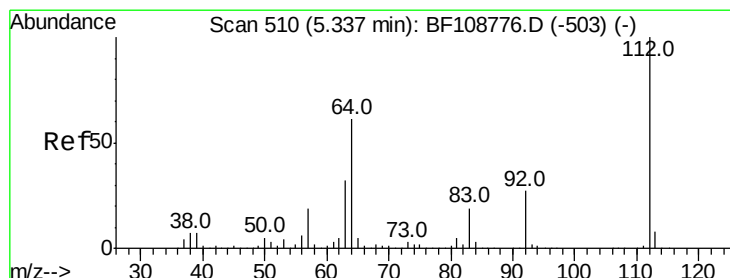
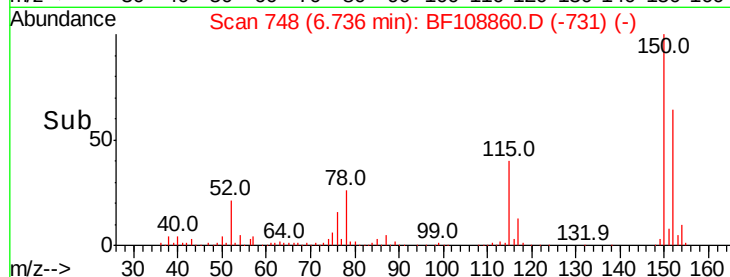
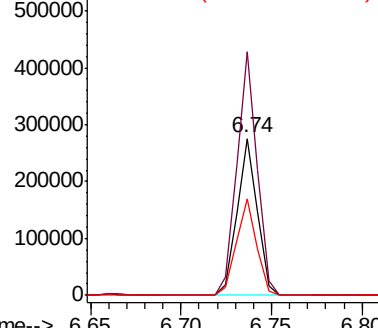


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

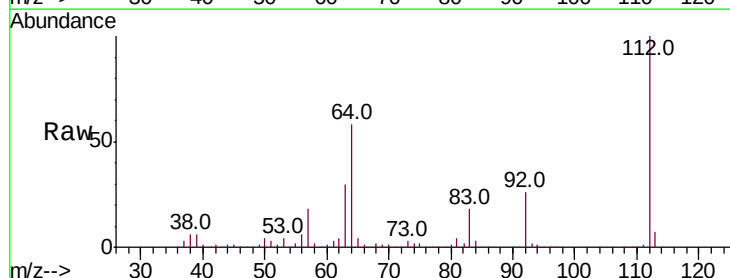
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 78.902 ng  
RT: 5.35 min Scan# 512  
Delta R.T. 0.01 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.2  | 47.9  | 71.9  |
| 63      | 30.1  | 23.7  | 35.5  |

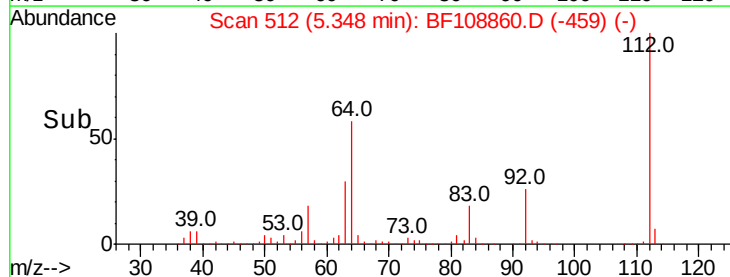
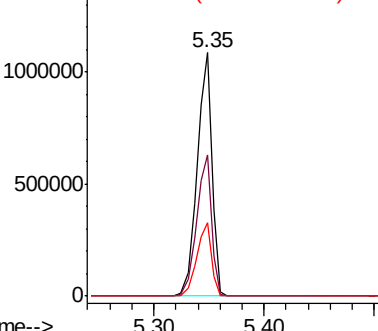


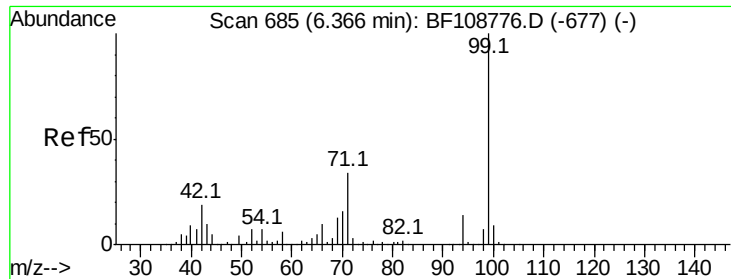
Abundance

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





#7

Phenol-d6

Concen: 79.197 ng

RT: 6.37 min Scan# 686

Delta R.T. 0.01 min

Lab File: BF108860.D

Acq: 7 Sep 2018 15:05

Instrument :

BNA\_F

ClientSampleId :

EP1-WS-COMP-17

Tot Ion: 99 Resp: 1317180

Ion Ratio Lower Upper

99 100

42 17.4 14.5 21.7

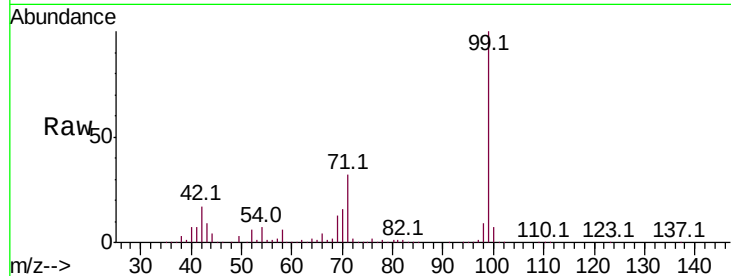
71 32.3 25.4 38.0

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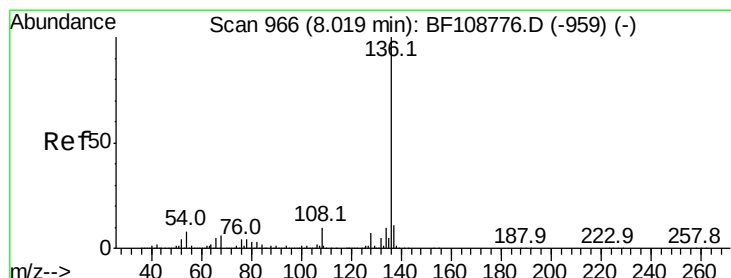
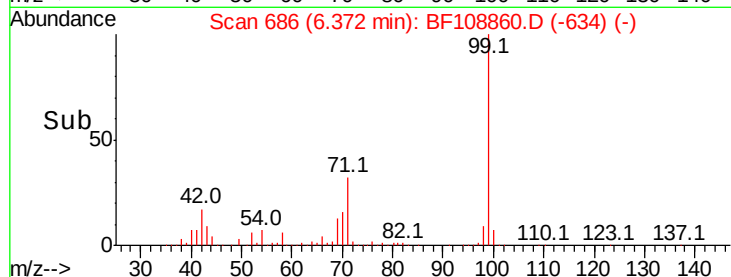
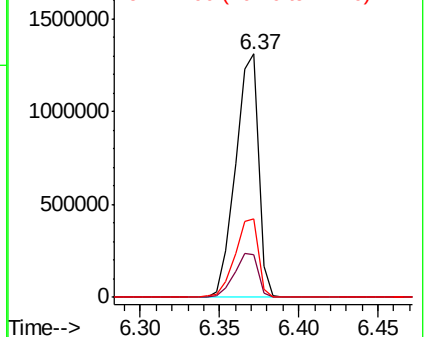
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.02 min Scan# 966

Delta R.T. -0.00 min

Lab File: BF108860.D

Acq: 7 Sep 2018 15:05

Tgt Ion: 136 Resp: 803799

Ion Ratio Lower Upper

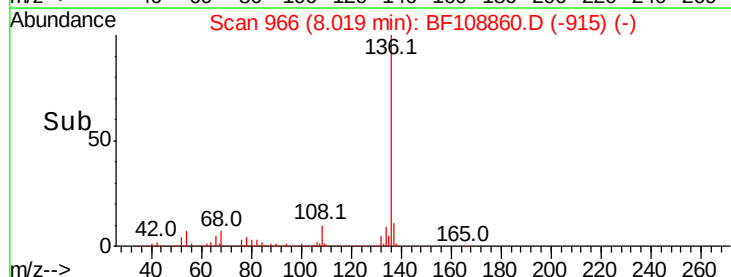
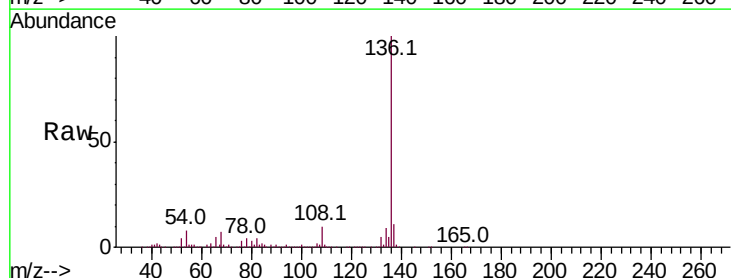
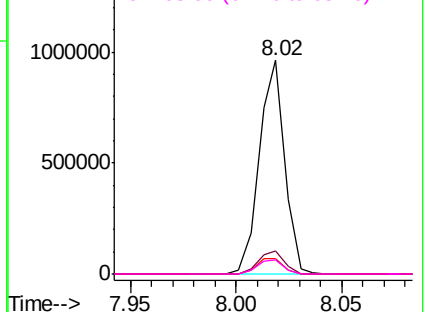
136 100

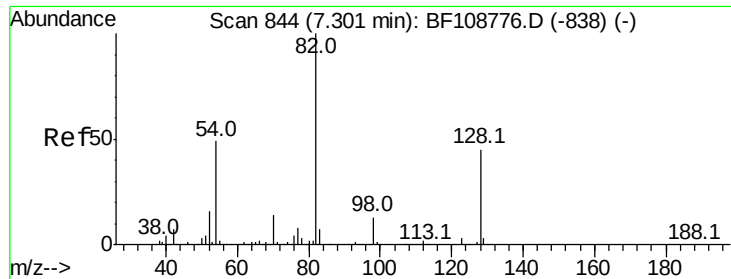
137 11.0 8.9 13.3

54 7.5 6.6 9.8

68 6.7 5.0 7.4

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): BF1  
Ion 68.00 (67.70 to 68.70): BF1





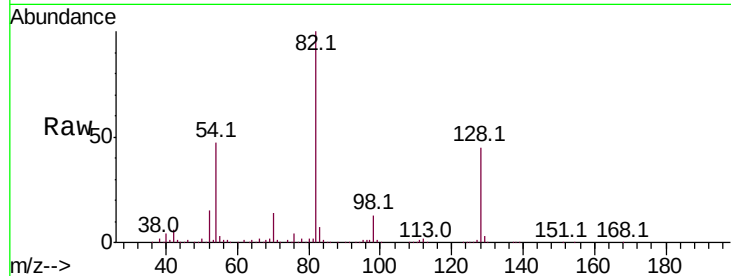
#23  
Nitrobenzene-d5  
Concen: 63.401 ng  
RT: 7.30 min Scan# 843  
Delta R.T. -0.01 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

Instrument :  
BNA\_F  
ClientSampleId :  
EP1-WS-COMP-17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.2  | 36.1  | 54.1  |
| 54      | 46.7  | 41.4  | 62.2  |

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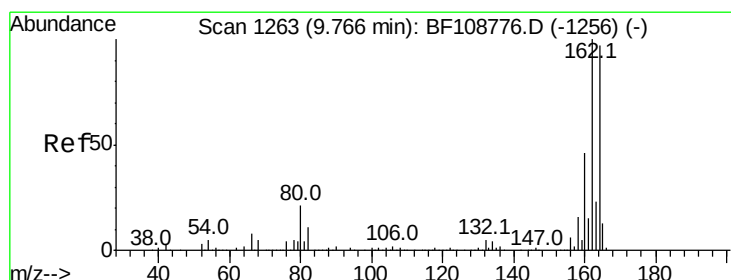
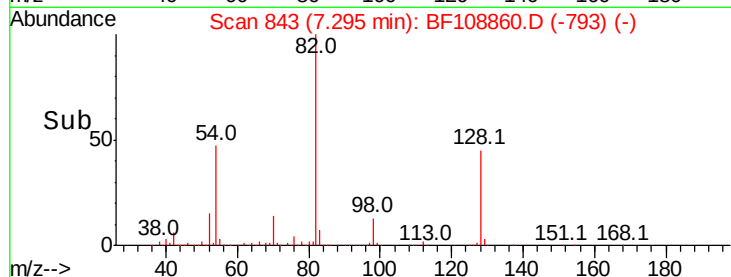
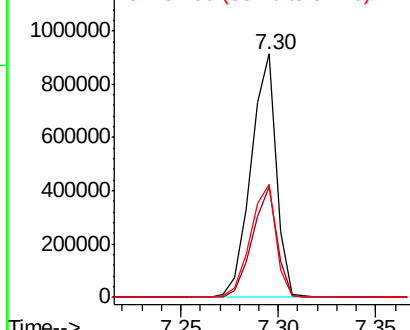


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.77 min Scan# 1263  
Delta R.T. -0.00 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

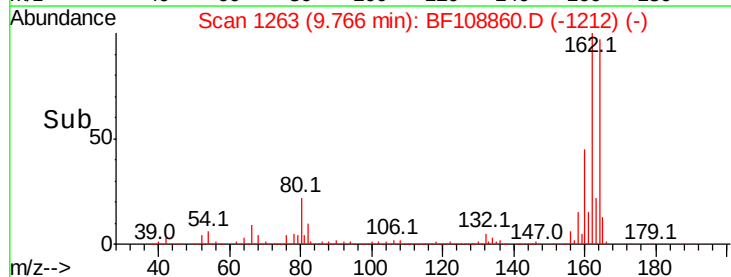
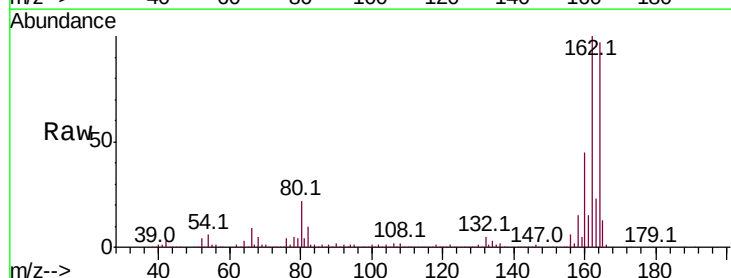
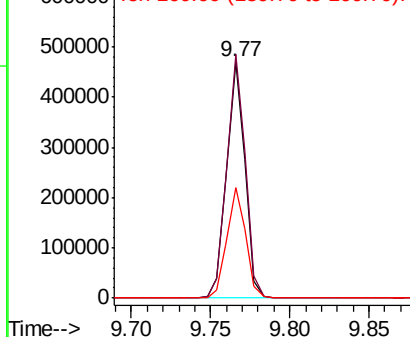
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.1 | 86.1  | 129.1 |
| 160     | 46.9  | 38.3  | 57.5  |

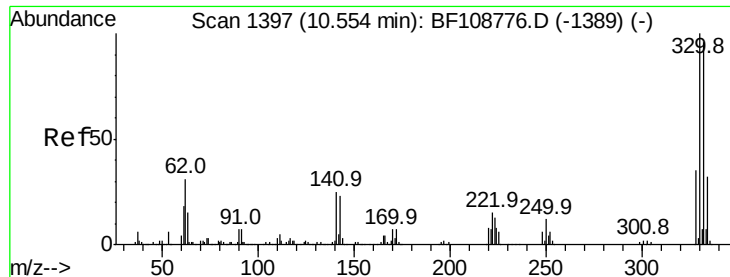
Abundance

Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#41

2,4,6-Tribromophenol

Concen: 80.047 ng

RT: 10.55 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF108860.D

Acq: 7 Sep 2018 15:05

Instrument :

BNA\_F

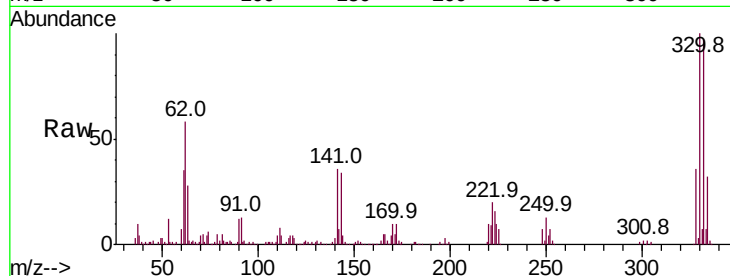
ClientSampleId :

EP1-WS-COMP-17

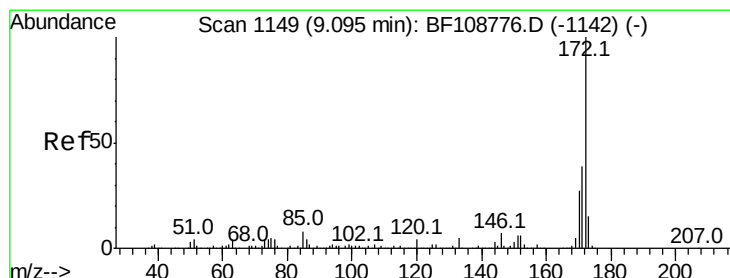
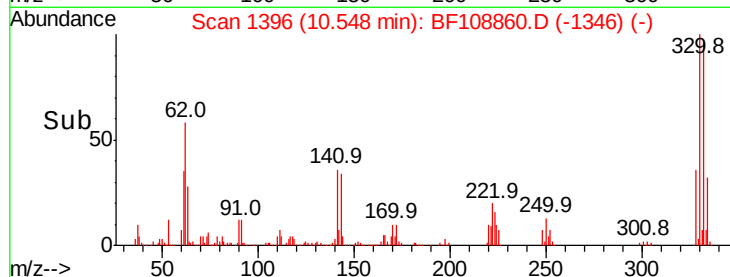
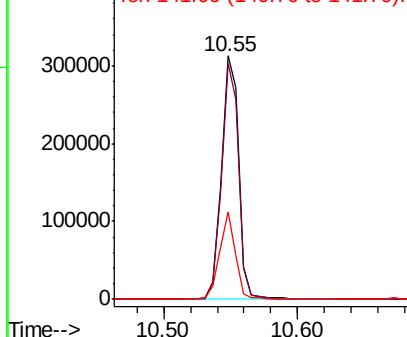
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 286399 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.0  | 77.0  | 115.6  |
| 141       | 32.6  | 29.9  | 44.9   |

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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: 65.925 ng

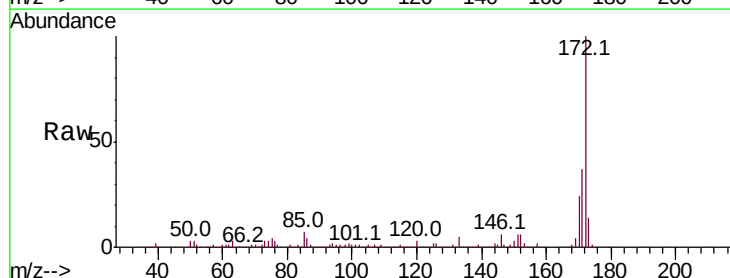
RT: 9.10 min Scan# 1149

Delta R.T. -0.00 min

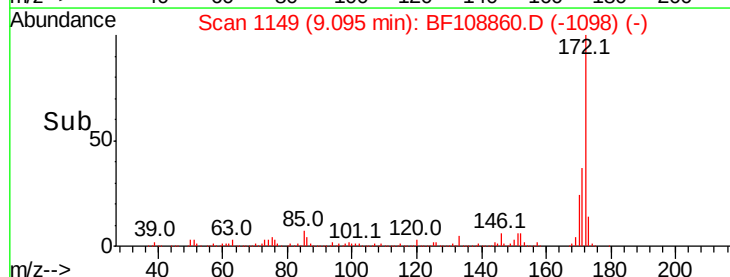
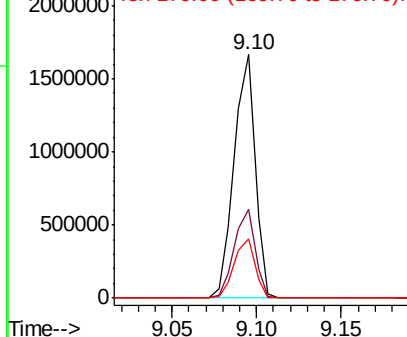
Lab File: BF108860.D

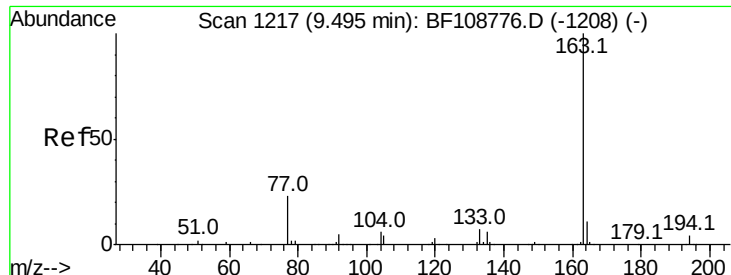
Acq: 7 Sep 2018 15:05

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 1448297 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 36.5  | 29.7  | 44.5    |
| 170       | 24.3  | 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





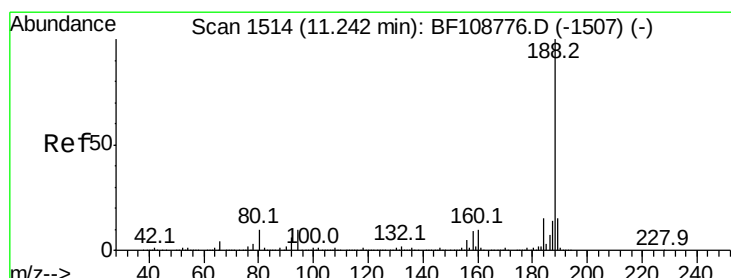
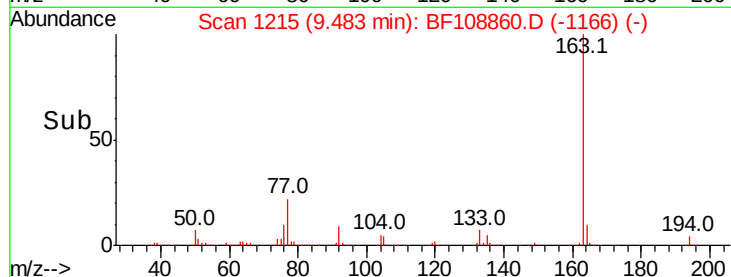
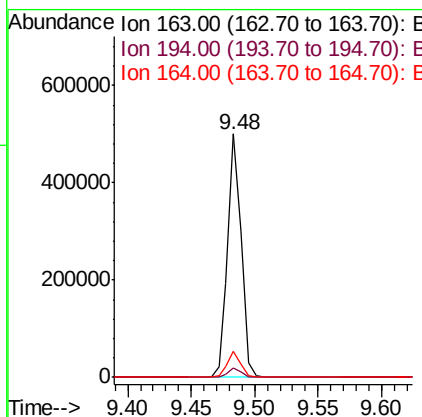
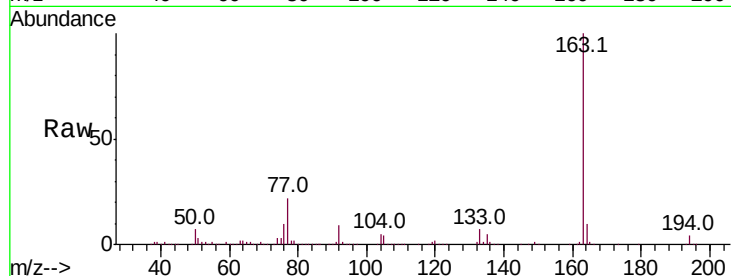
#49  
Dimethylphthalate  
Concen: 14.259 ng  
RT: 9.48 min Scan# 1215  
Delta R.T. -0.01 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

Instrument :  
BNA\_F  
ClientSampleId :  
EP1-WS-COMP-17

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.6   | 2.7  | 4.1   |       |
| 164     | 10.5  | 8.2  | 12.2  |       |

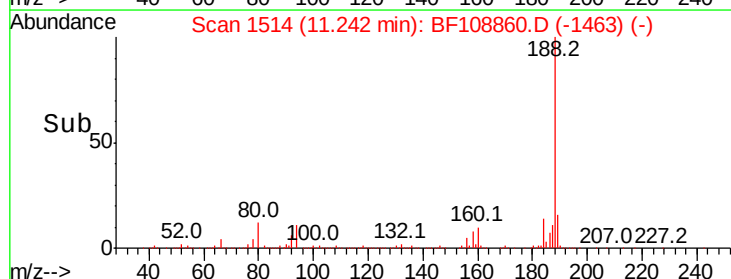
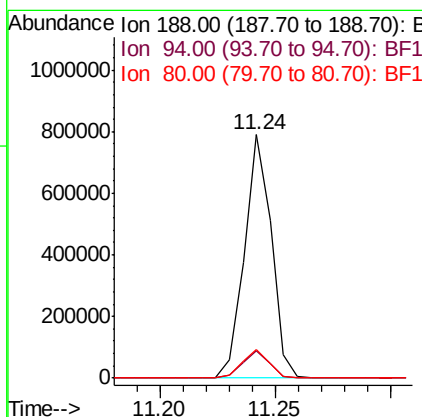
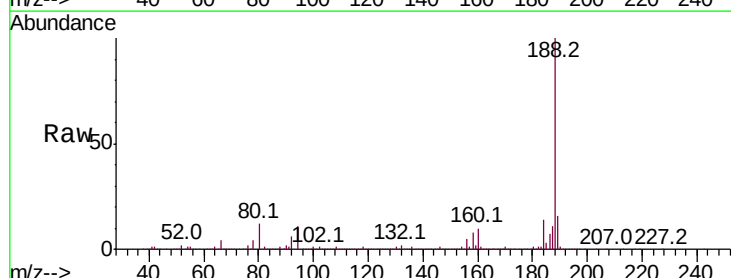
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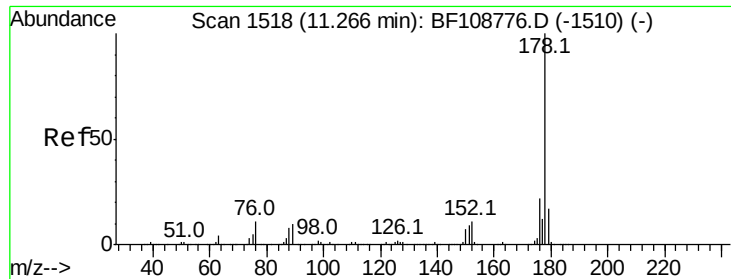
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1514  
Delta R.T. -0.00 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 11.0  | 8.5  | 12.7  |       |
| 80      | 11.8  | 9.2  | 13.8  |       |





#70

Phenanthrene

Concen: 4.876 ng

RT: 11.27 min Scan# 1518

Delta R.T. -0.00 min

Lab File: BF108860.D

Acq: 7 Sep 2018 15:05

Instrument :

BNA\_F

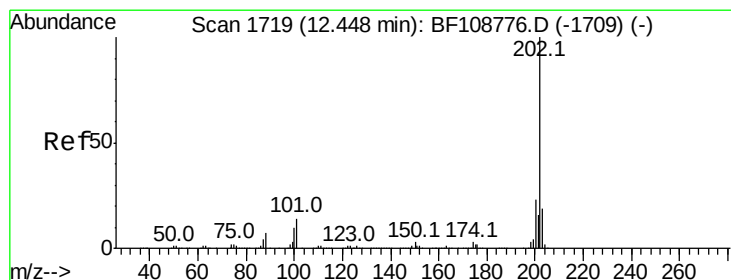
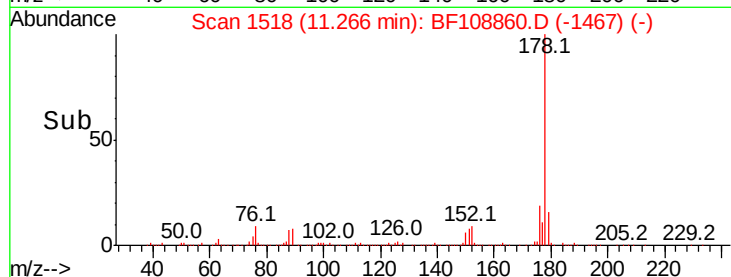
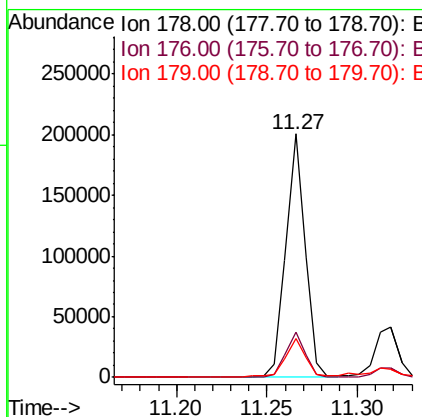
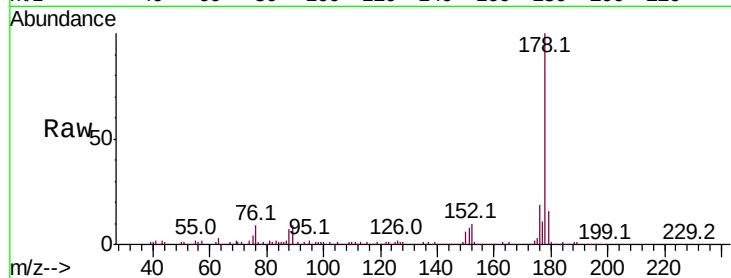
ClientSampleId :

EP1-WS-COMP-17

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 178   | Resp: | 150046 |
| Ion      | Ratio | Lower | Upper  |
| 178      | 100   |       |        |
| 176      | 18.7  | 15.8  | 23.8   |
| 179      | 15.9  | 13.0  | 19.6   |

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#74

Fluoranthene

Concen: 7.124 ng

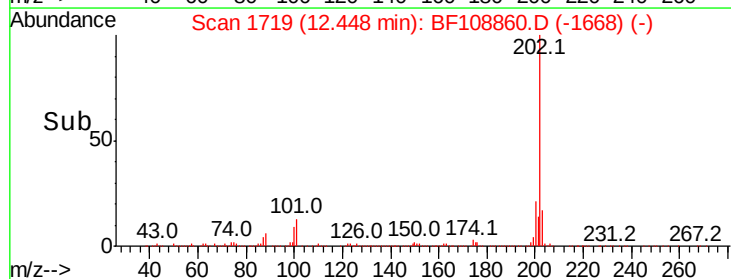
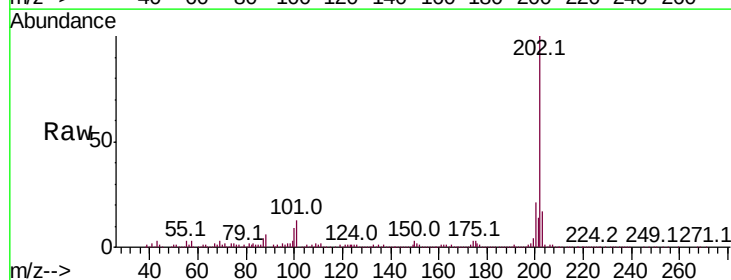
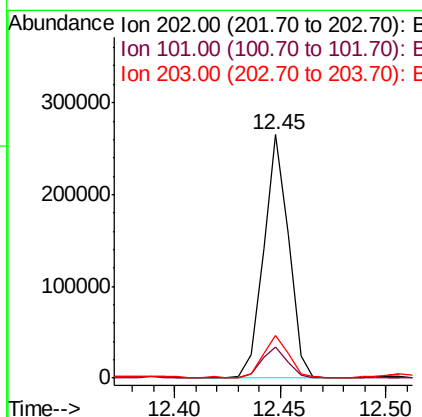
RT: 12.45 min Scan# 1719

Delta R.T. -0.00 min

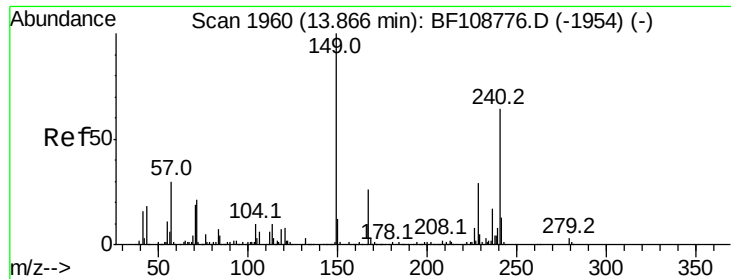
Lab File: BF108860.D

Acq: 7 Sep 2018 15:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 217044 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 12.7  | 0.0   | 34.1   |
| 203      | 17.4  | 0.0   | 38.1   |







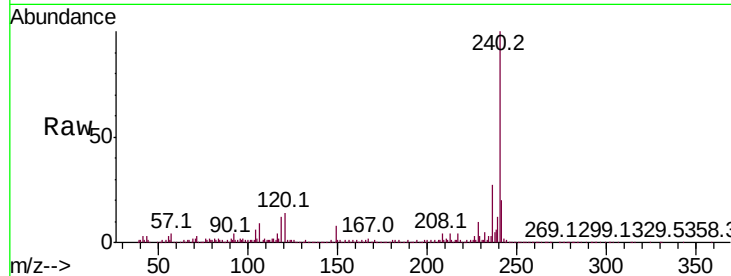
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.87 min Scan# 1960  
Delta R.T. -0.00 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

Instrument :  
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ClientSampleId :  
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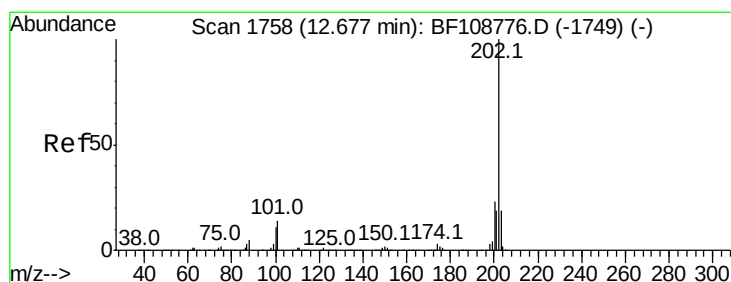
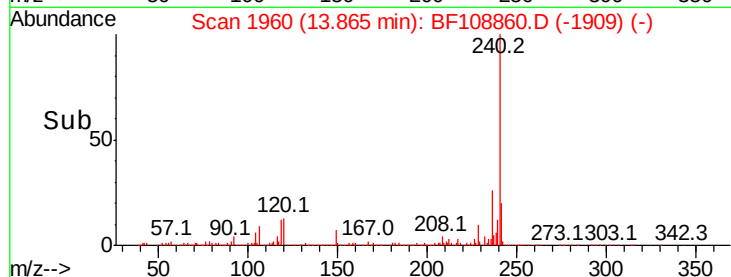
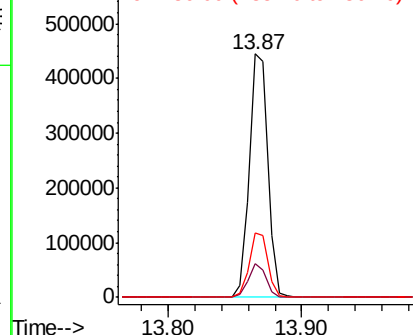
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.7  | 9.5   | 14.3  |
| 236     | 26.7  | 20.7  | 31.1  |

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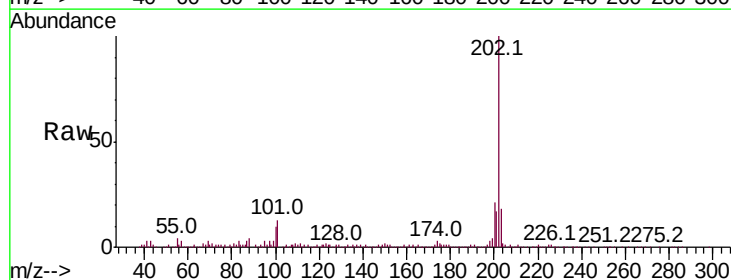


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

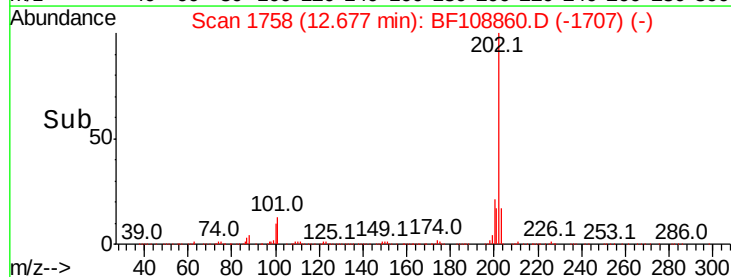
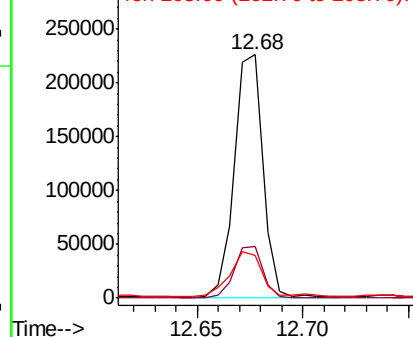


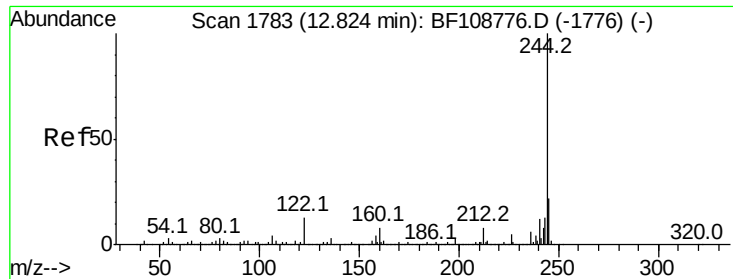
#77  
Pyrene  
Concen: 6.437 ng  
RT: 12.68 min Scan# 1758  
Delta R.T. -0.00 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.4  | 26.2  |
| 203     | 17.8  | 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: 58.462 ng

RT: 12.82 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF108860.D

Acq: 7 Sep 2018 15:05

Instrument :

BNA\_F

ClientSampleId :

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Tot Ion:244 Resp: 1062786

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

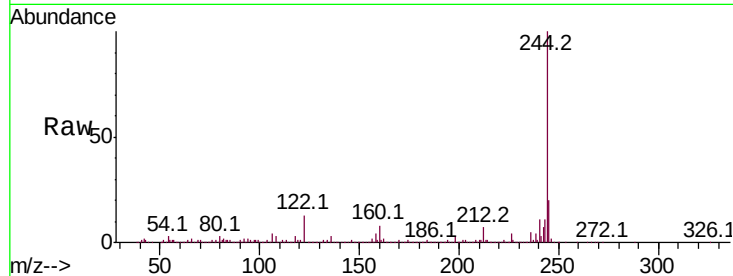
122 13.1 11.0 16.4

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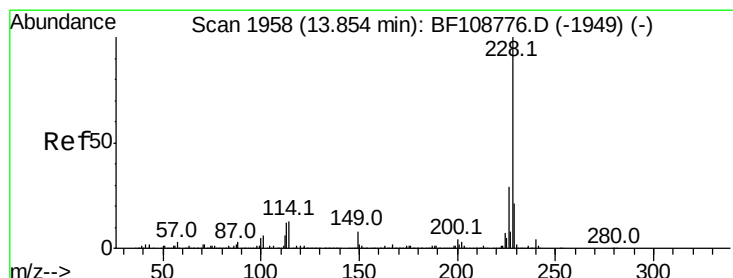
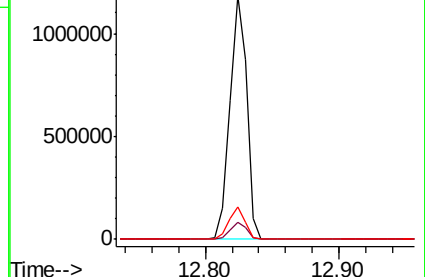
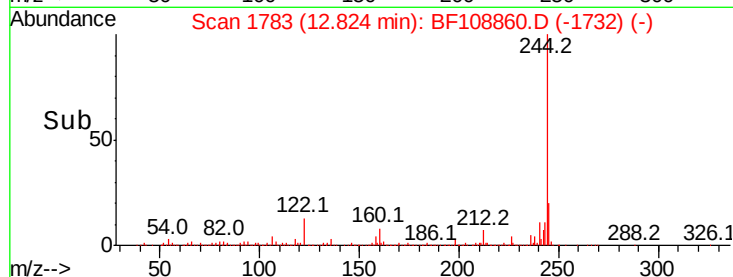
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 3.805 ng

RT: 13.86 min Scan# 1959

Delta R.T. 0.01 min

Lab File: BF108860.D

Acq: 7 Sep 2018 15:05

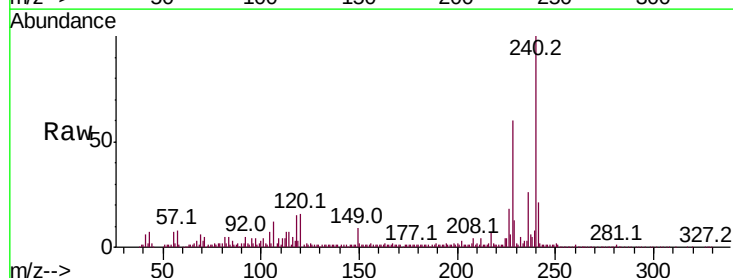
Tgt Ion:228 Resp: 103386

Ion Ratio Lower Upper

228 100

226 30.8 22.6 33.8

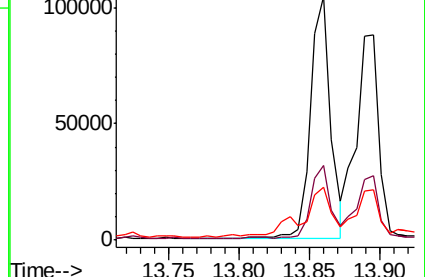
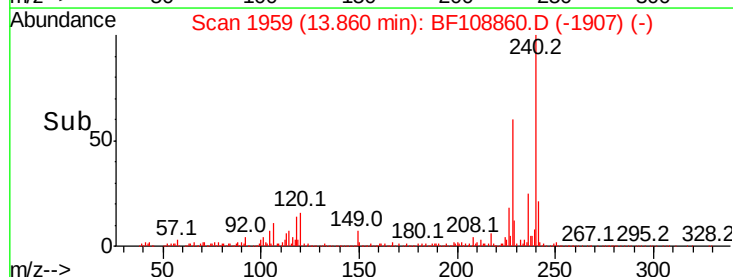
229 21.8 15.8 23.6

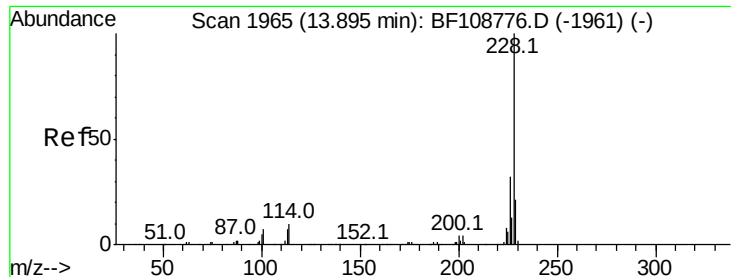


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





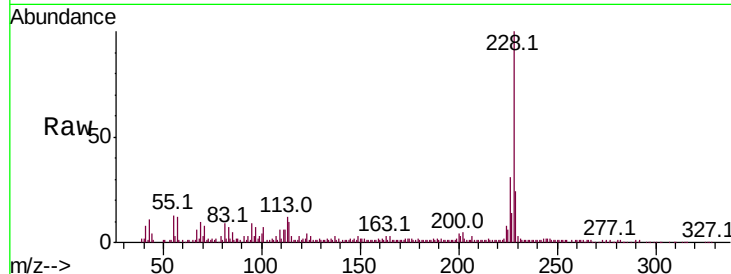
#82  
Chrysene  
Concen: 3.735 ng  
RT: 13.89 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

Instrument :  
BNA\_F  
ClientSampleId :  
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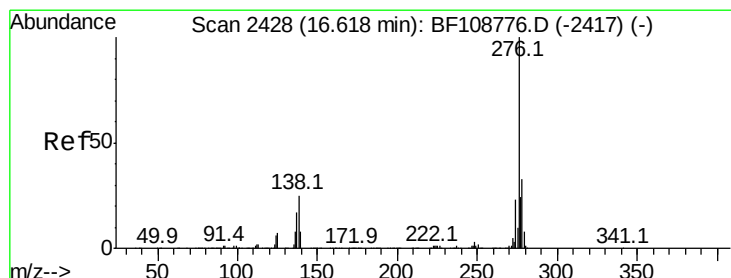
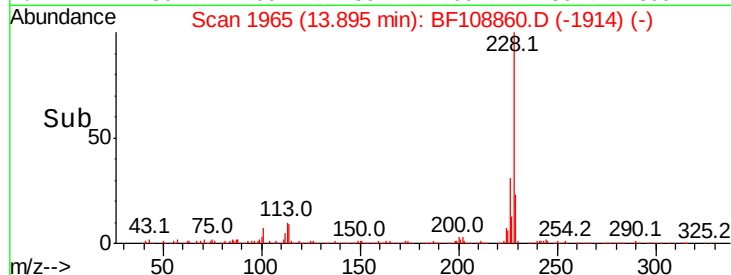
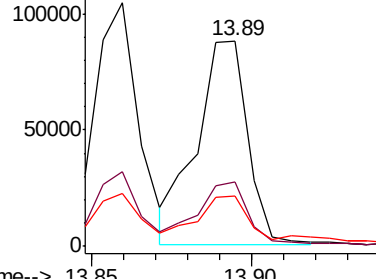
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 98250 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.4  | 25.0  | 37.6  |
| 229       | 24.4  | 16.2  | 24.4# |

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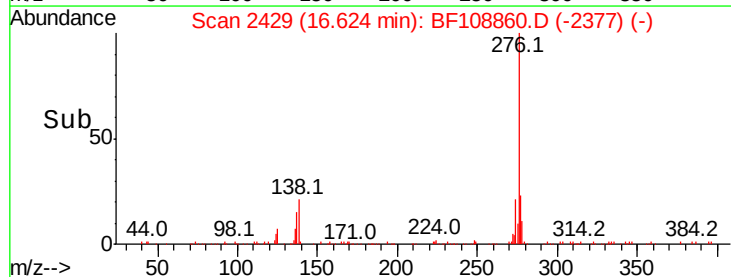
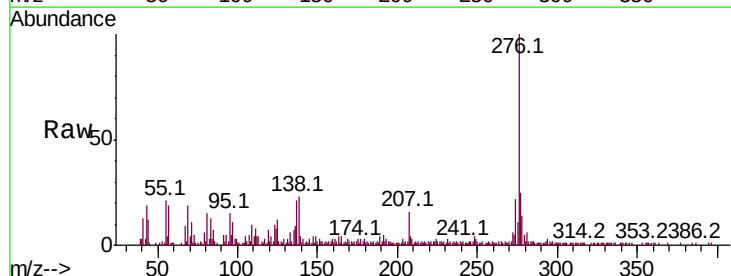
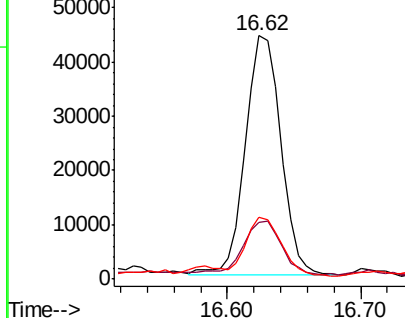
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

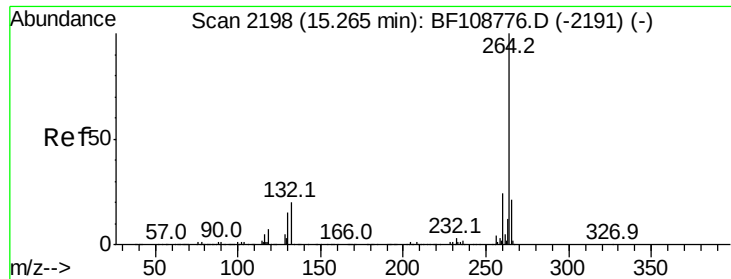


#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.482 ng  
RT: 16.62 min Scan# 2429  
Delta R.T. 0.01 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 81058 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.2  | 25.0  | 37.6  |
| 277       | 23.9  | 20.1  | 30.1  |

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





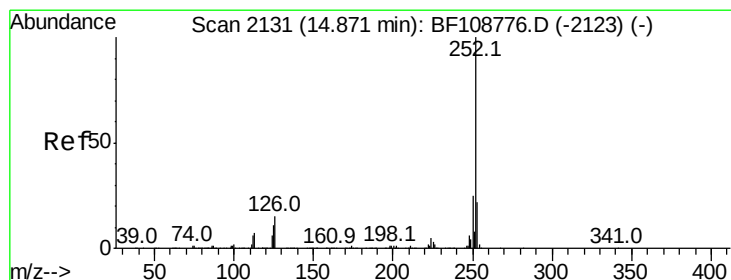
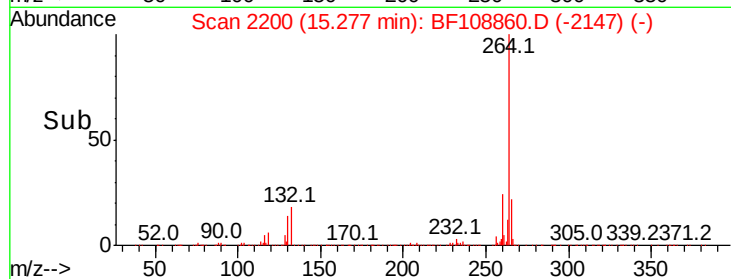
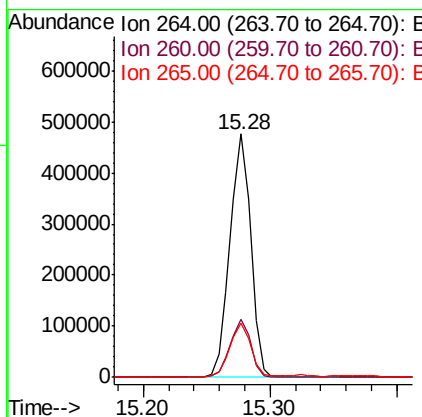
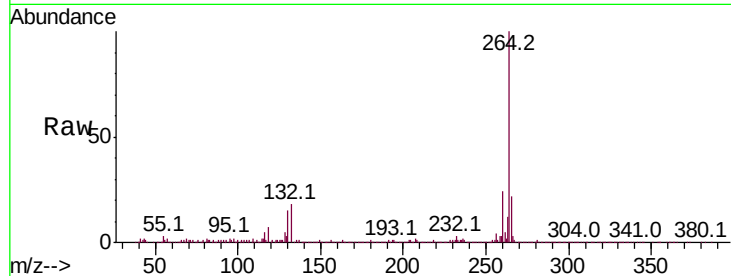
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.28 min Scan# 2200  
Delta R.T. 0.01 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

Instrument :  
BNA\_F  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.2  | 28.8  |
| 265     | 22.4  | 17.5  | 26.3  |

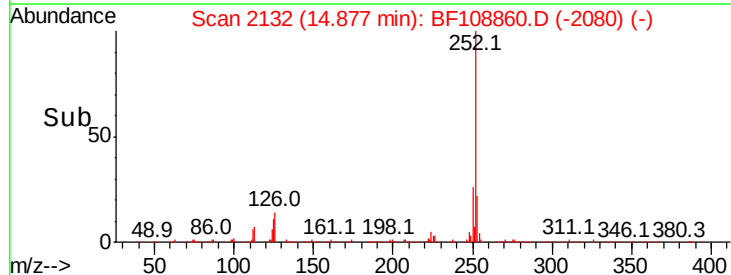
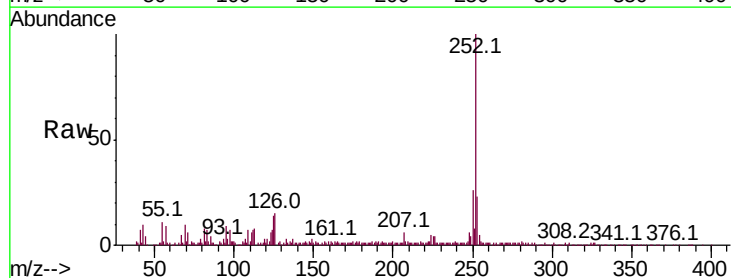
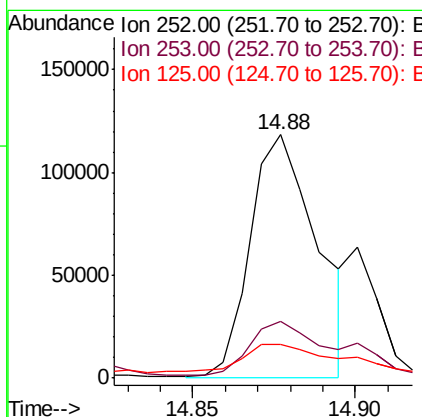
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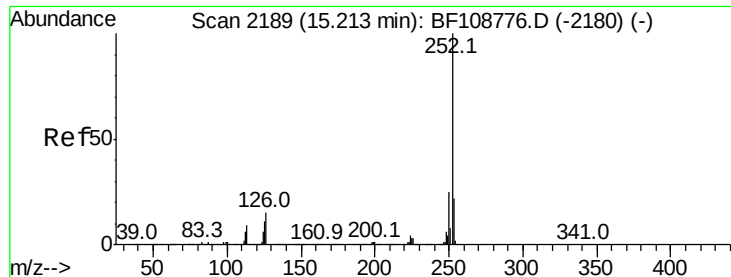
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#87  
Benzo(b)fluoranthene  
Concen: 5.739 ng m  
RT: 14.88 min Scan# 2132  
Delta R.T. 0.01 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.0  | 25.6  |
| 125     | 14.0  | 9.0   | 13.6  |





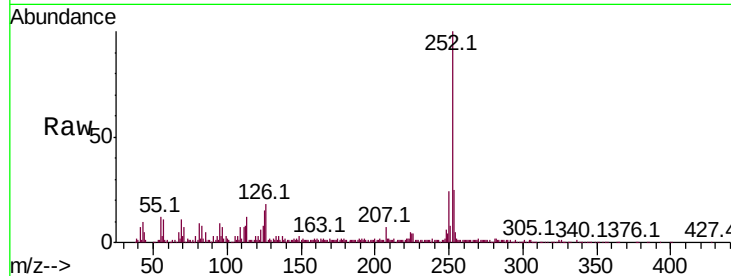
#89  
Benzo(a)pyrene  
Concen: 4.580 ng  
RT: 15.21 min Scan# 2189  
Delta R.T. -0.00 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

Instrument :  
BNA\_F  
ClientSampleId :  
EP1-WS-COMP-17

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 120967 |       |       |
| 253     | 24.9  | 17.1   | 25.7  |       |
| 125     | 15.2  | 9.8    | 14.6  |       |

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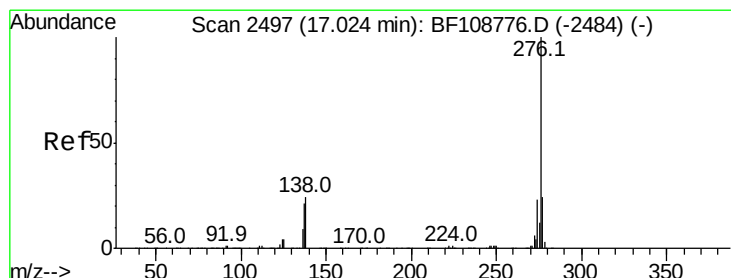
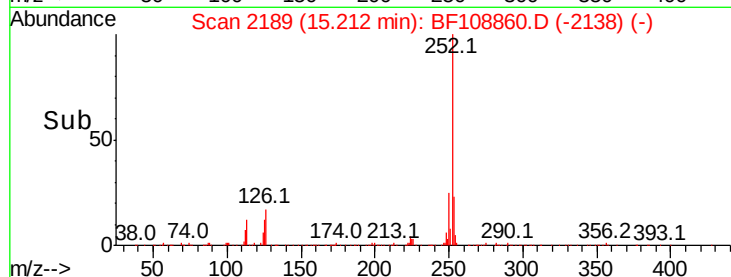
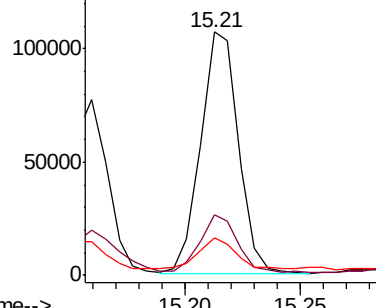


Abundance

Ion 252.00 (251.70 to 252.70): E

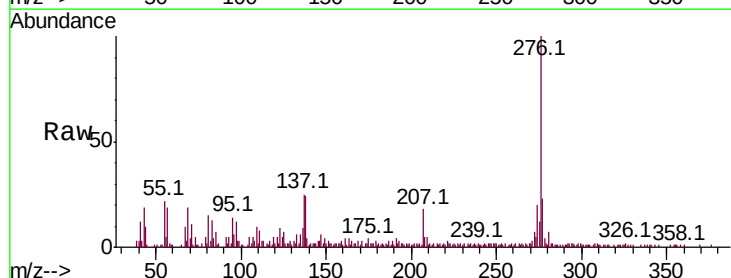
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91  
Benzo(g,h,i)perylene  
Concen: 3.363 ng  
RT: 17.04 min Scan# 2499  
Delta R.T. 0.01 min  
Lab File: BF108860.D  
Acq: 7 Sep 2018 15:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 78359 |       |       |
| 277     | 22.7  | 17.9  | 26.9  |       |
| 138     | 23.6  | 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

