

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\  
 Data File : BF121800.D  
 Acq On : 2 Oct 2020 18:15  
 Operator : JU/CG  
 Sample : L4213-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-15(3-4)

Manual Integrations  
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Quant Time: Oct 03 00:33:21 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 01 14:29:14 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.76  | 152  | 125954   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.05  | 136  | 474958   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.80  | 164  | 230003   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.28 | 188  | 385450   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12            | 13.92 | 240  | 301067   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 15.36 | 264  | 275347   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 683980   | 80.70 | ng    | 0.00     |
| 7) Phenol-d6                | 6.40  | 99   | 861848   | 77.51 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.33  | 82   | 584851   | 66.11 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.59 | 330  | 215545   | 75.40 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.12  | 172  | 980059   | 64.54 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.87 | 244  | 816894   | 54.97 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.52  | 163  | 131522   | 7.890 | ng    | 99       |
| 71) Phenanthrene            | 11.30 | 178  | 68468    | 3.260 | ng    | 98       |
| 75) Fluoranthene            | 12.49 | 202  | 130022   | 5.800 | ng    | 97       |
| 78) Pyrene                  | 12.72 | 202  | 119720   | 5.443 | ng    | 97       |
| 81) Benzo(a)anthracene      | 13.91 | 228  | 64111    | 3.366 | ng    | 94       |
| 83) Chrysene                | 13.94 | 228  | 70026    | 3.631 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.76 | 276  | 38608    | 2.153 | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 14.94 | 252  | 84100m   | 4.569 | ng    |          |
| 90) Benzo(a)pyrene          | 15.29 | 252  | 59854    | 3.825 | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 17.19 | 276  | 38355    | 2.614 | ng    | 97       |

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

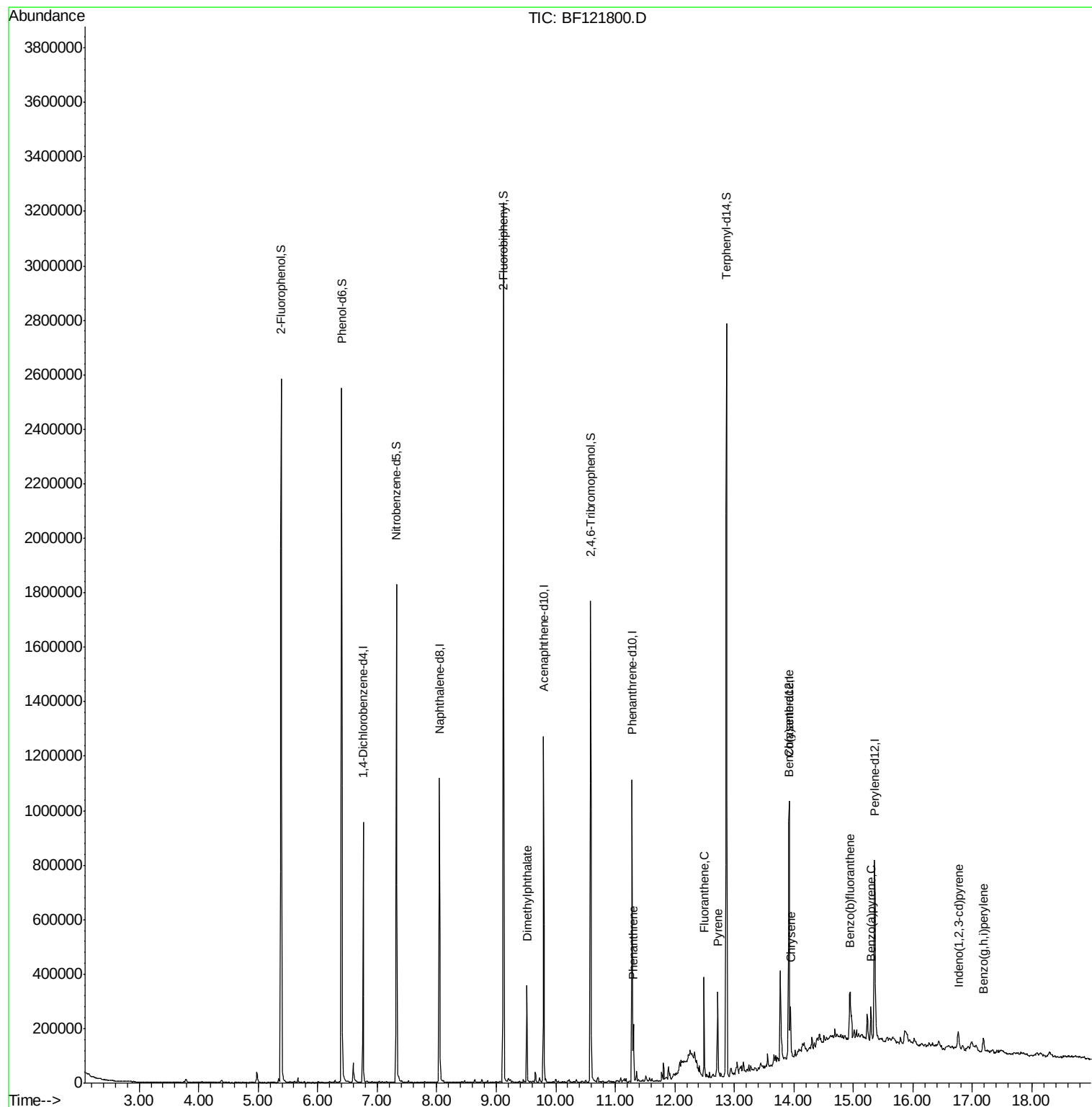
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100220\  
Data File : BF121800.D  
Acq On : 2 Oct 2020 18:15  
Operator : JU/CG  
Sample : L4213-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

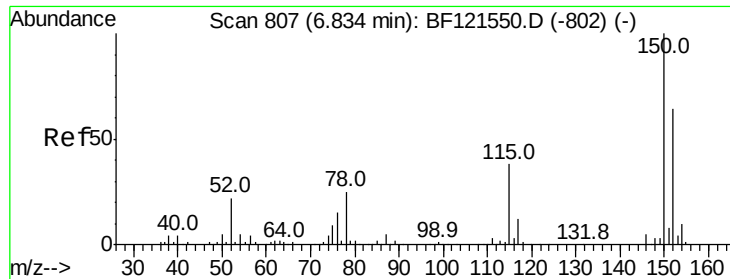
Instrument :  
BNA\_F  
ClientSampleId :  
B-15(3-4)

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Quant Time: Oct 03 00:33:21 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 01 14:29:14 2020  
Response via : Initial Calibration





#1

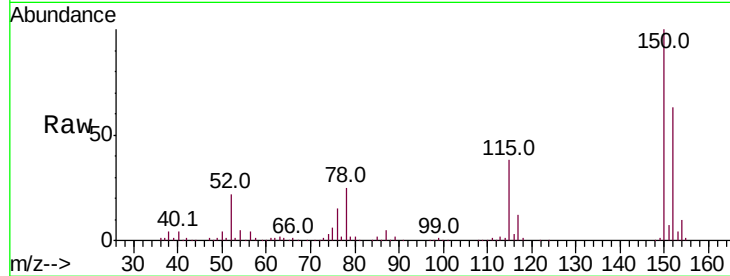
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.76 min Scan# 795  
Delta R.T. -0.01 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

Instrument :  
BNA\_F  
ClientSampleId :  
B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.8 | 125.3 | 187.9 |
| 115     | 60.3  | 51.9  | 77.9  |

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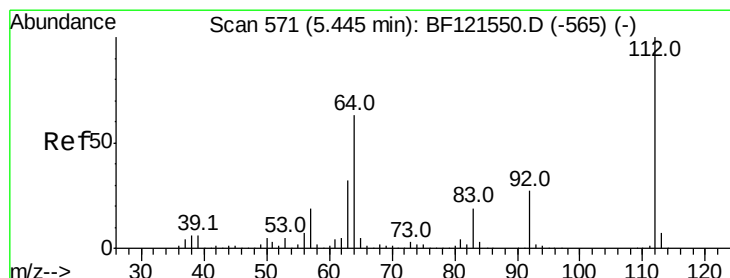
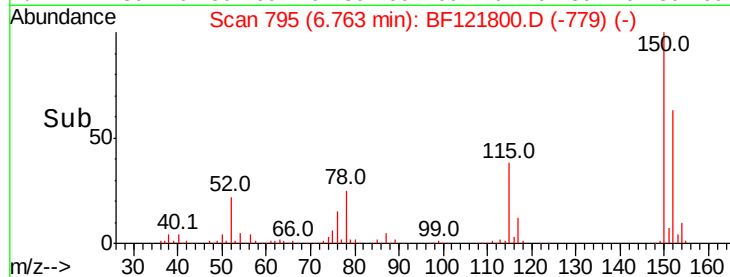
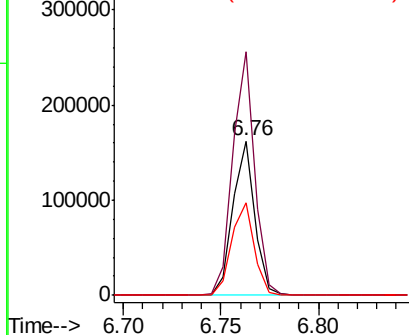


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

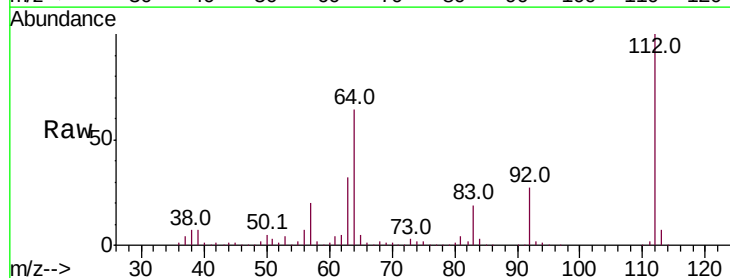
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 80.702 ng  
RT: 5.39 min Scan# 561  
Delta R.T. 0.00 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.8  | 50.4  | 75.6  |
| 63      | 32.3  | 25.8  | 38.6  |

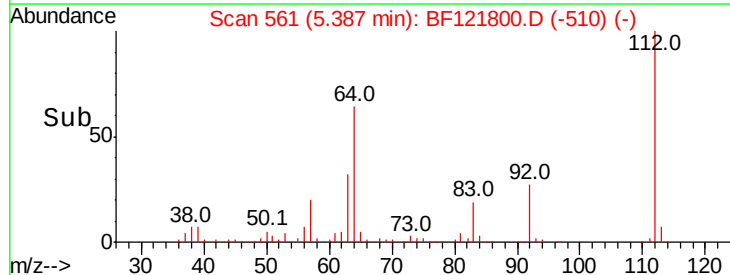
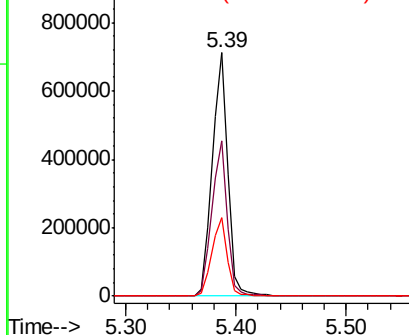


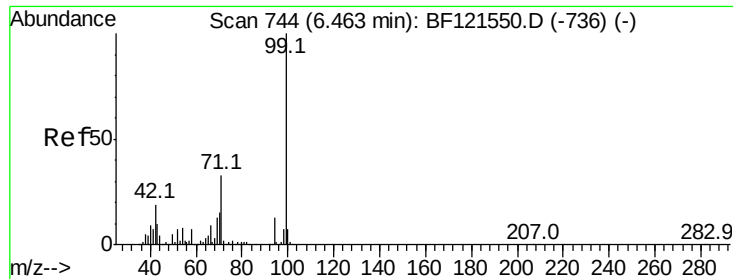
Abundance

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: 77.510 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121800.D

Acq: 2 Oct 2020 18:15

Instrument :

BNA\_F

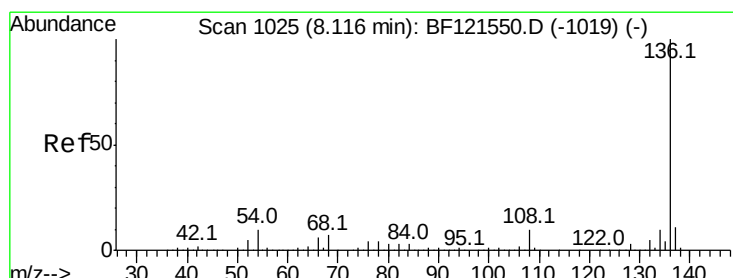
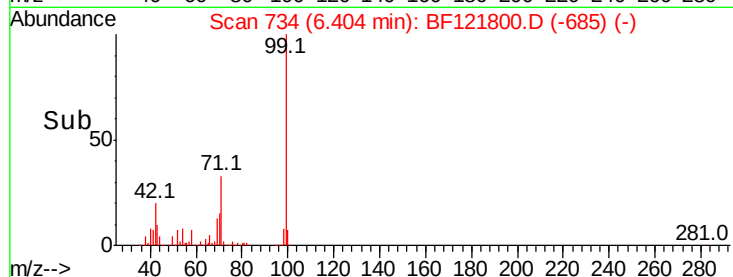
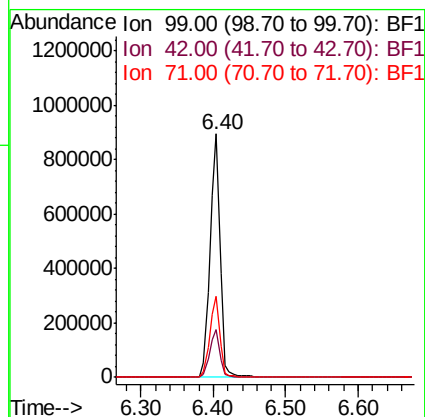
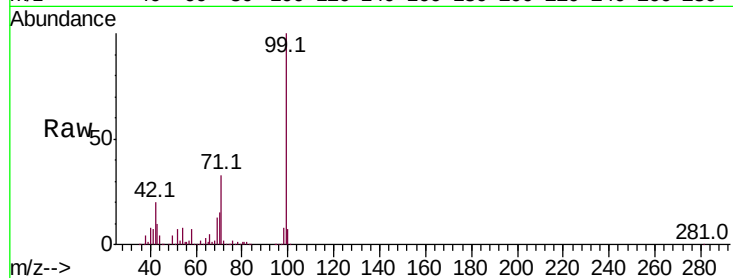
ClientSampleId :

B-15(3-4)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 861848 |       |       |
| 42      | 19.7 | 15.9  | 23.9   |       |       |
| 71      | 33.4 | 27.1  | 40.7   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

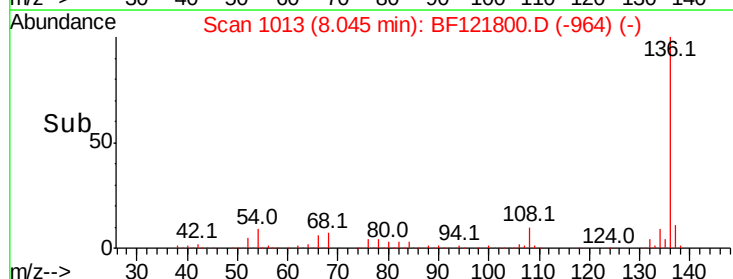
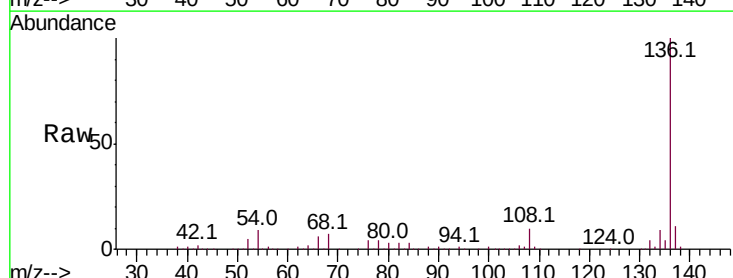
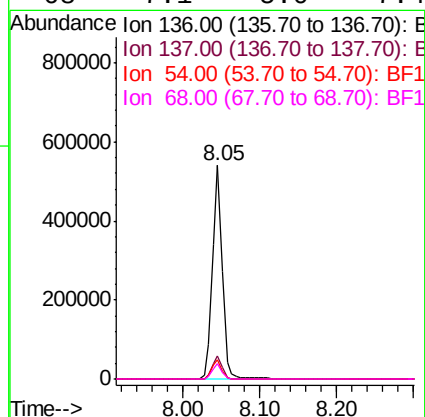
RT: 8.05 min Scan# 1013

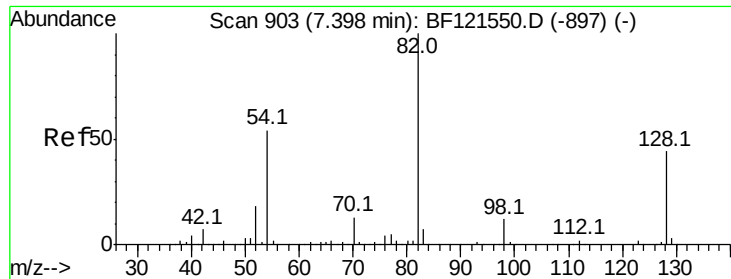
Delta R.T. -0.01 min

Lab File: BF121800.D

Acq: 2 Oct 2020 18:15

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 474958 |       |       |
| 137     | 11.0 | 8.6   | 13.0   |       |       |
| 54      | 9.2  | 7.1   | 10.7   |       |       |
| 68      | 7.1  | 5.0   | 7.4    |       |       |





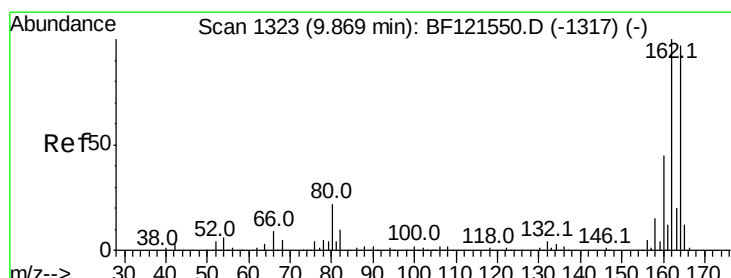
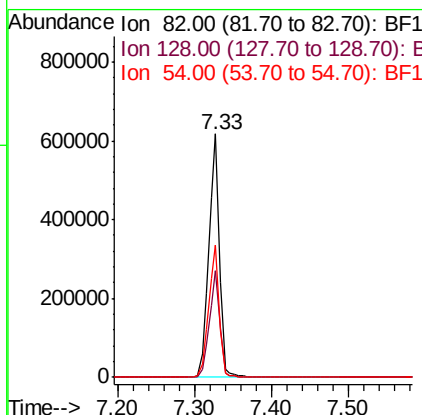
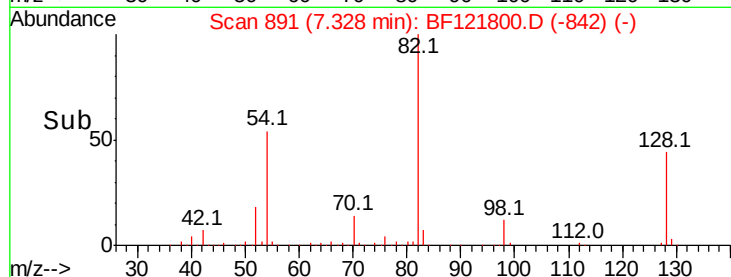
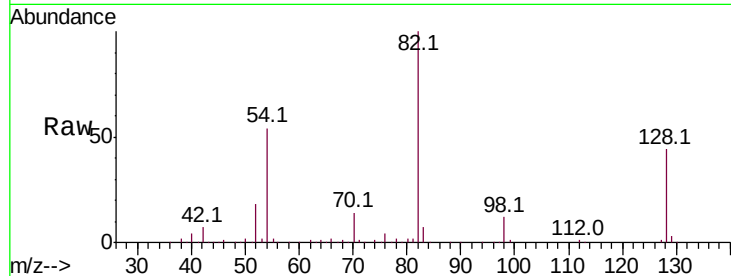
#23  
 Nitrobenzene-d5  
 Concen: 66.115 ng  
 RT: 7.33 min Scan# 891  
 Delta R.T. -0.01 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.5  | 35.0  | 52.4  |
| 54      | 54.5  | 43.9  | 65.9  |

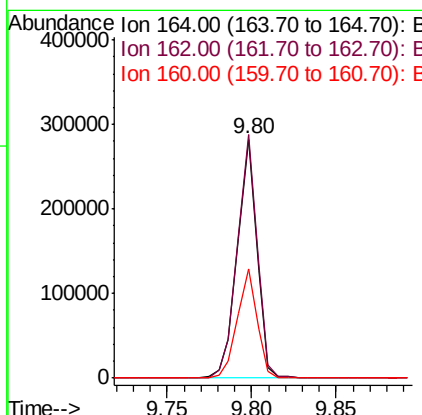
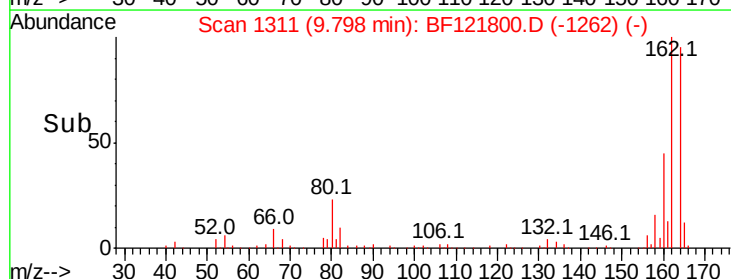
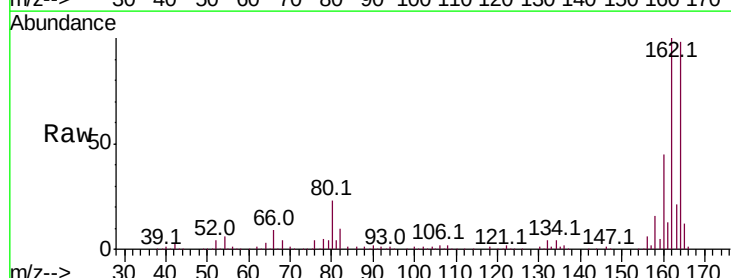
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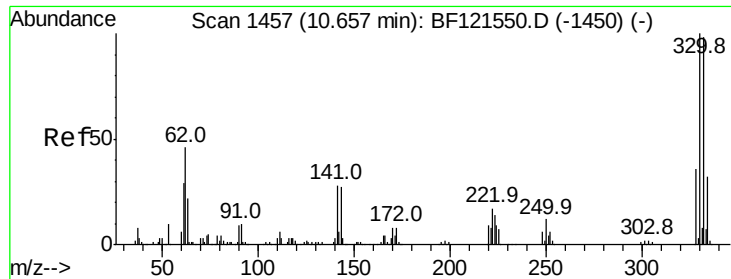
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.80 min Scan# 1311  
 Delta R.T. -0.01 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.0 | 83.2  | 124.8 |
| 160     | 45.9  | 37.5  | 56.3  |





#42

2,4,6-Tribromophenol

Concen: 75.402 ng

RT: 10.59 min Scan# 1445

Delta R.T. -0.02 min

Lab File: BF121800.D

Acq: 2 Oct 2020 18:15

Instrument :

BNA\_F

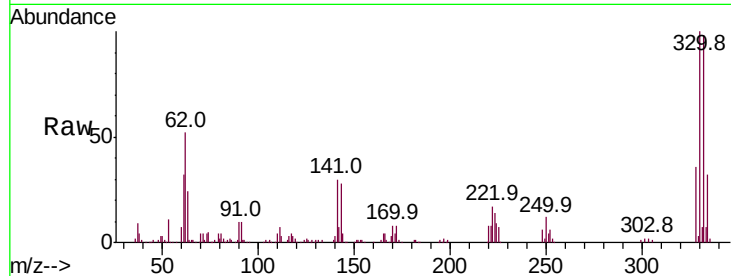
ClientSampleId :

B-15(3-4)

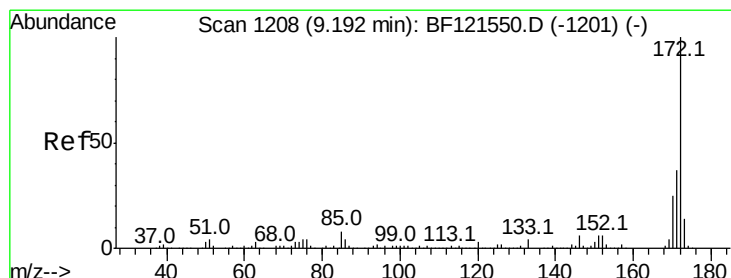
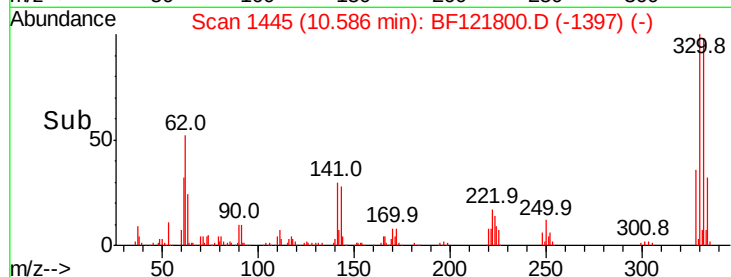
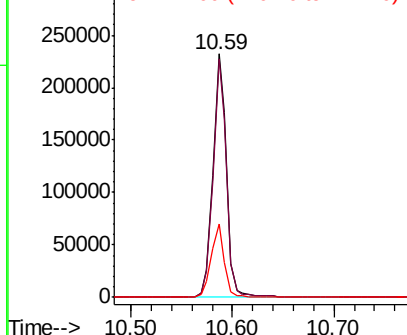
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 215545 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 97.1  | 77.3  | 115.9  |
| 141       | 29.5  | 22.3  | 33.5   |

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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



#45

2-Fluorobiphenyl

Concen: 64.535 ng

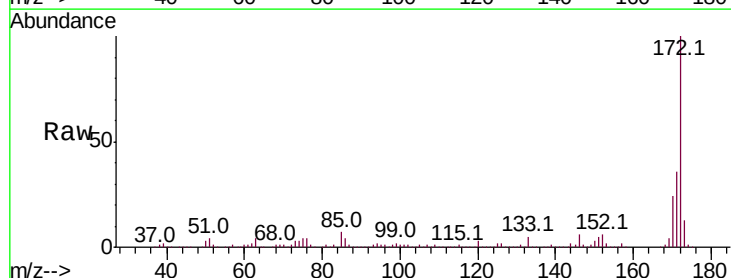
RT: 9.12 min Scan# 1196

Delta R.T. -0.01 min

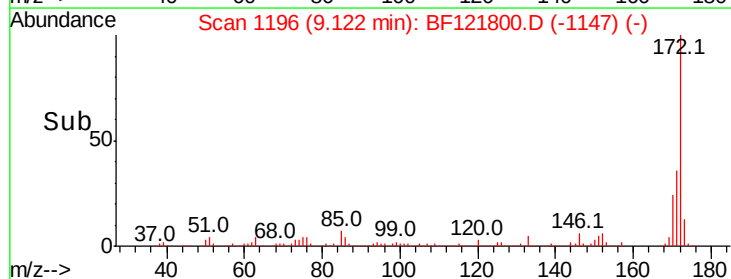
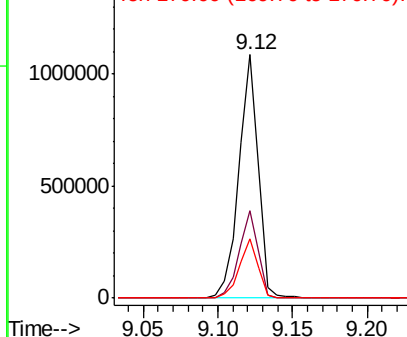
Lab File: BF121800.D

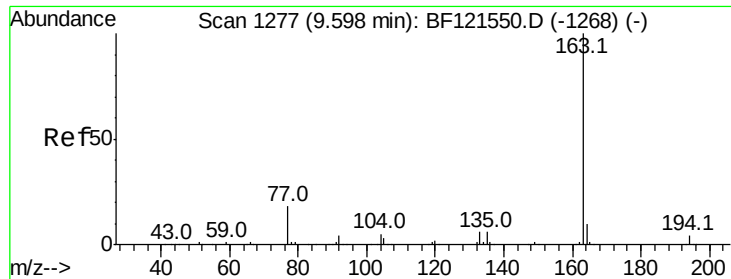
Acq: 2 Oct 2020 18:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 980059 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.9  | 29.1  | 43.7   |
| 170       | 24.3  | 19.8  | 29.6   |



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





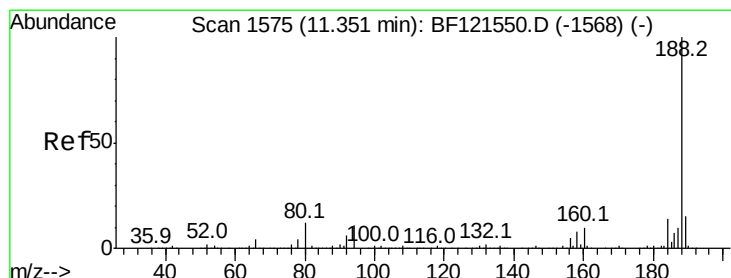
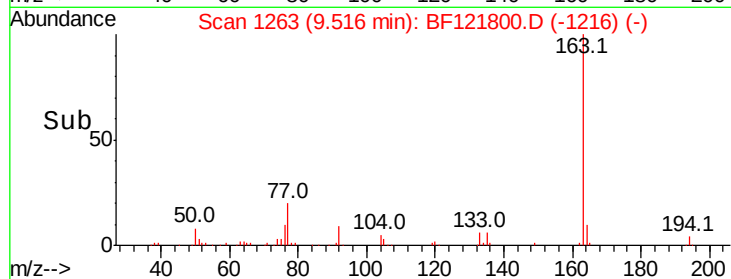
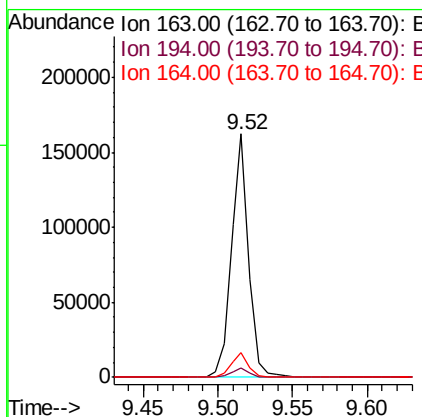
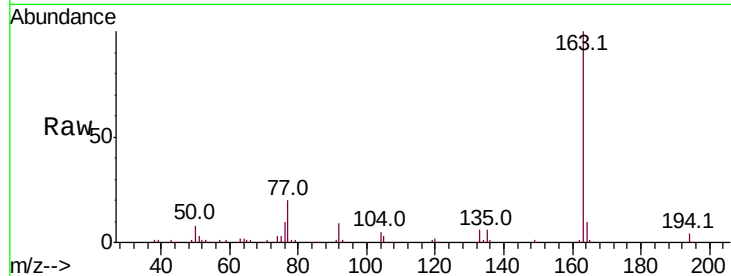
#50  
Dimethylphthalate  
Concen: 7.890 ng  
RT: 9.52 min Scan# 1263  
Delta R.T. -0.02 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

Instrument :  
BNA\_F  
ClientSampleId :  
B-15(3-4)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   |      |       |       |
| 194     | 3.9   | 3.3  | 4.9   |       |
| 164     | 10.1  | 8.2  | 12.4  |       |

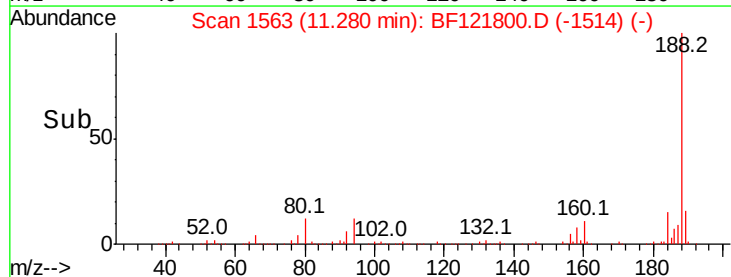
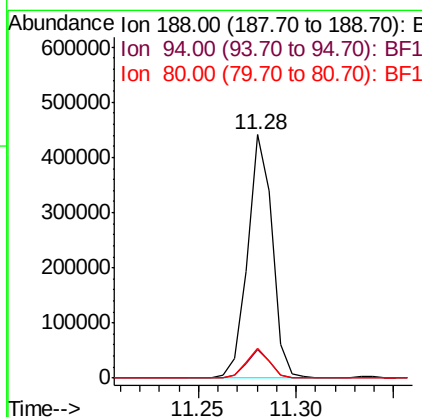
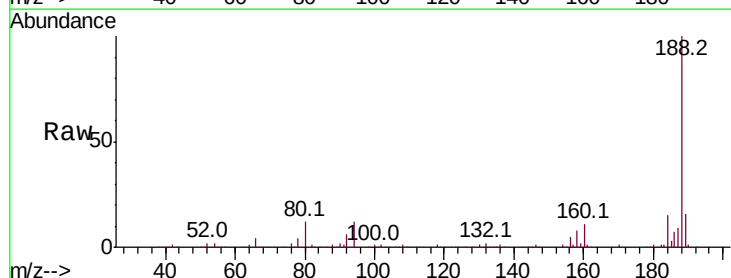
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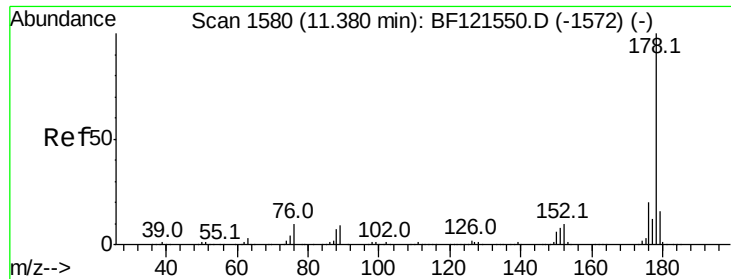
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#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.28 min Scan# 1563  
Delta R.T. -0.01 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   |      |       |       |
| 94      | 11.6  | 8.3  | 12.5  |       |
| 80      | 12.2  | 9.1  | 13.7  |       |





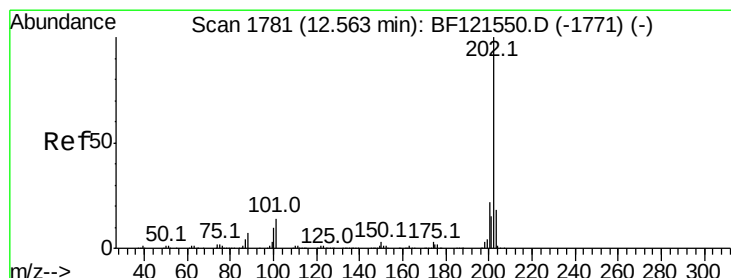
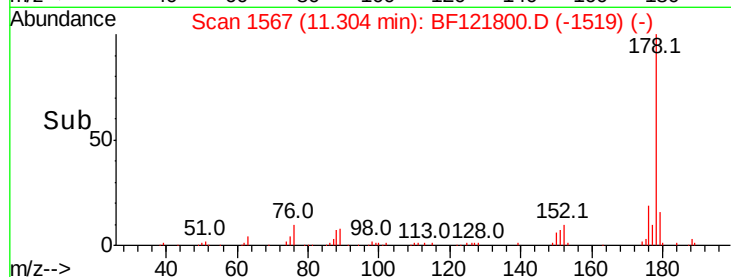
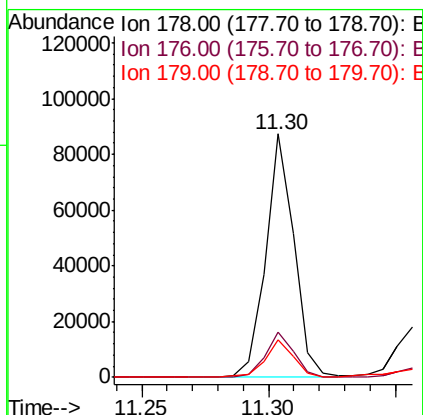
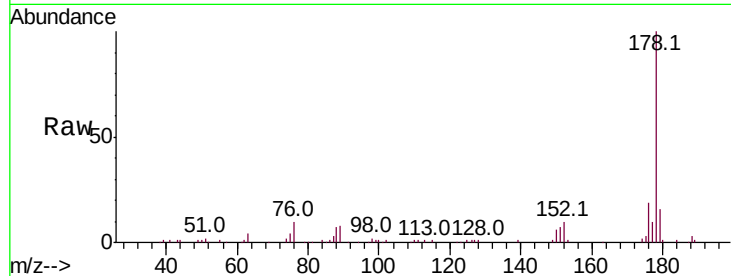
#71  
Phenanthrene  
Concen: 3.260 ng  
RT: 11.30 min Scan# 1567  
Delta R.T. -0.02 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

Instrument :  
BNA\_F  
ClientSampleId :  
B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.5  | 15.9  | 23.9  |
| 179     | 15.5  | 12.2  | 18.4  |

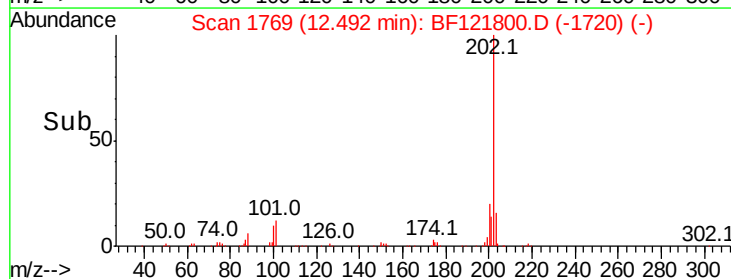
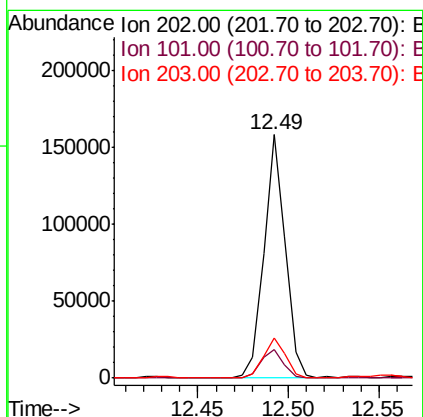
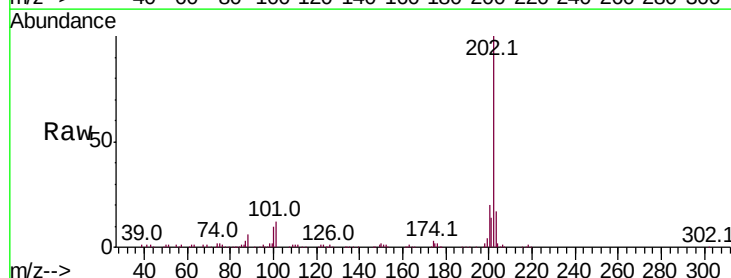
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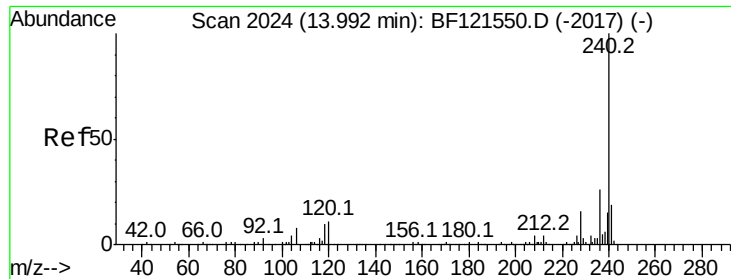


#75  
Fluoranthene  
Concen: 5.800 ng  
RT: 12.49 min Scan# 1769  
Delta R.T. -0.01 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.9  | 0.0   | 33.4  |
| 203     | 16.7  | 0.0   | 37.9  |







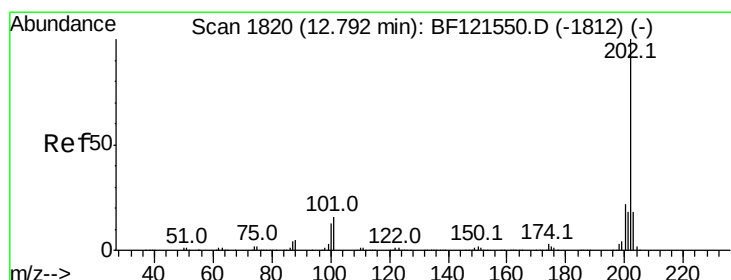
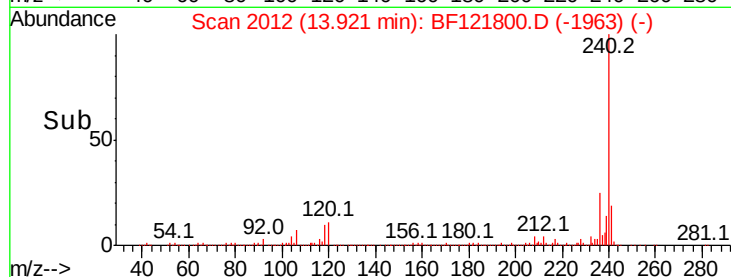
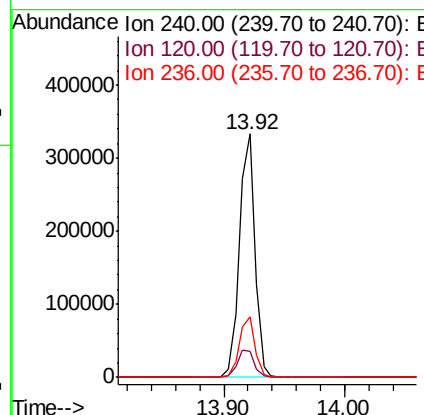
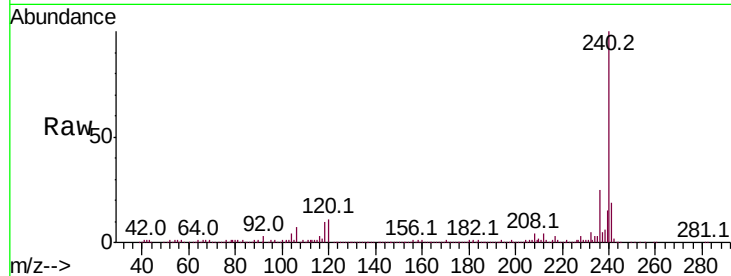
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.92 min Scan# 2012  
 Delta R.T. -0.01 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.9  | 9.2   | 13.8  |
| 236     | 25.1  | 20.9  | 31.3  |

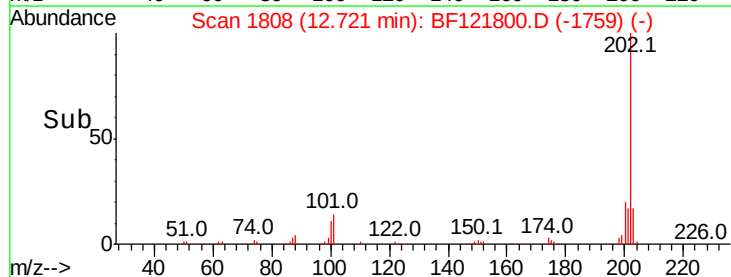
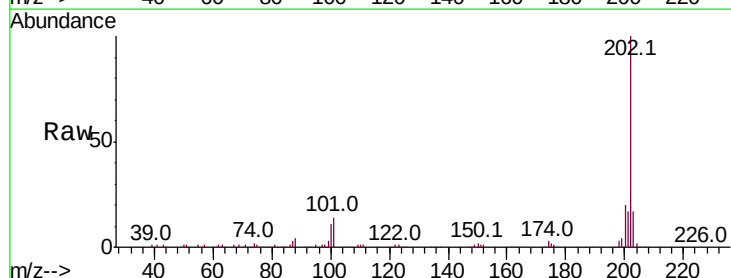
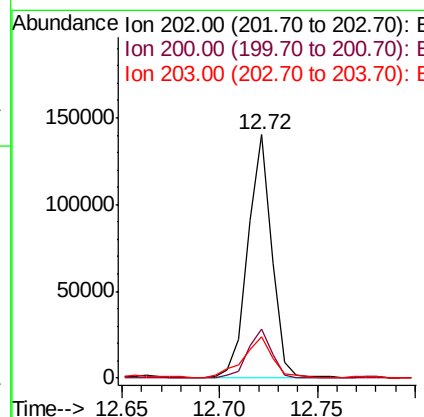
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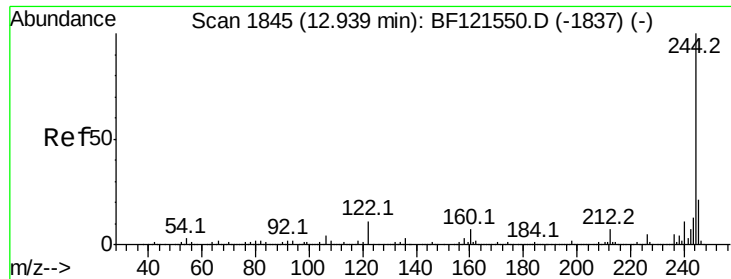
mohammad  
 10/5/2020 10:27:38 AM



#78  
 Pyrene  
 Concen: 5.443 ng  
 RT: 12.72 min Scan# 1808  
 Delta R.T. -0.01 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.0  | 17.4  | 26.2  |
| 203     | 17.0  | 14.6  | 21.8  |





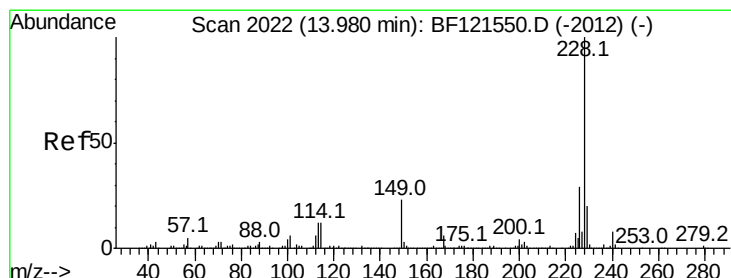
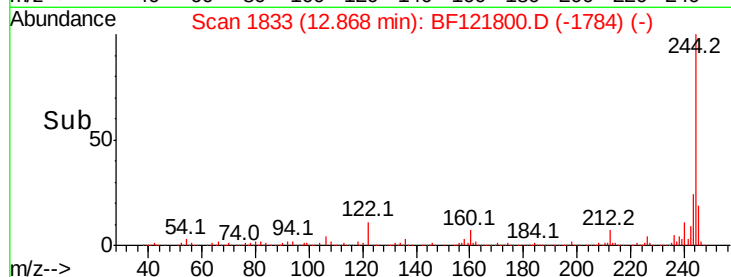
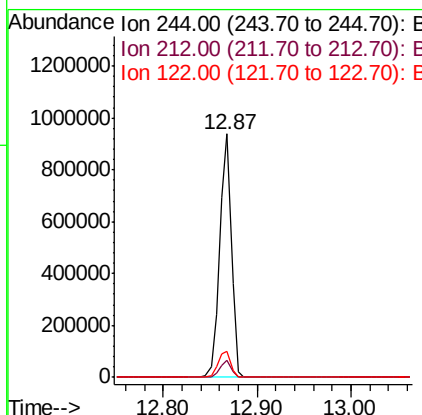
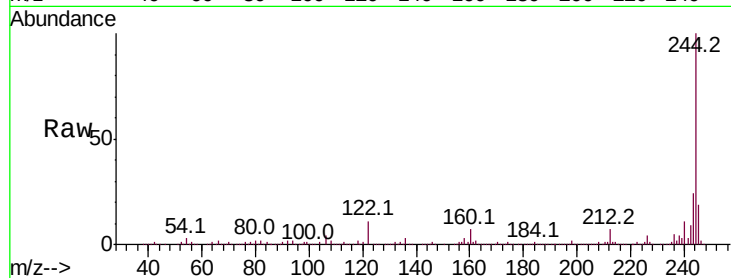
#79  
 Terphenyl-d14  
 Concen: 54.969 ng  
 RT: 12.87 min Scan# 1833  
 Delta R.T. -0.01 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.4   | 8.2   |
| 122     | 10.9  | 8.1   | 12.1  |

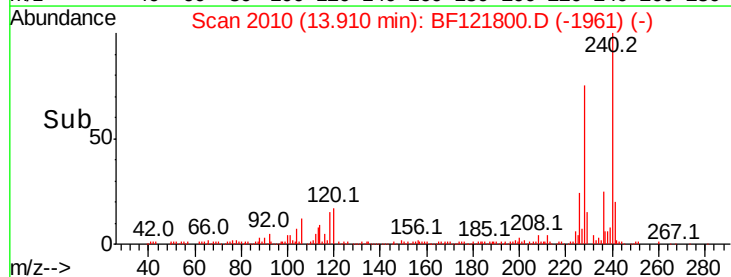
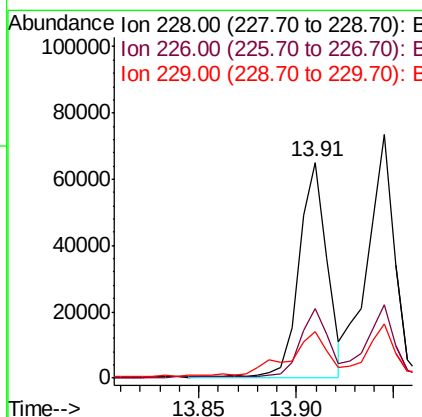
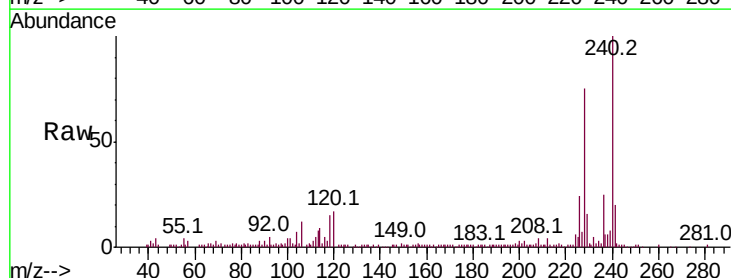
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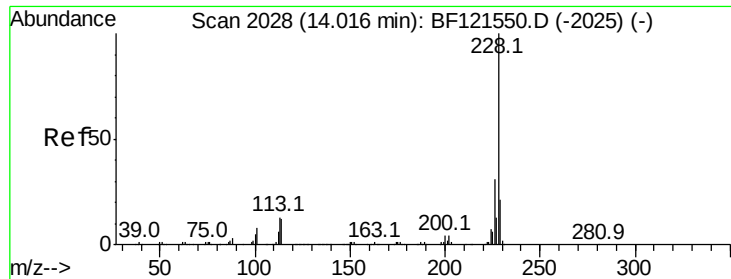
mohammad  
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#81  
 Benzo(a)anthracene  
 Concen: 3.366 ng  
 RT: 13.91 min Scan# 2010  
 Delta R.T. -0.01 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.1  | 22.3  | 33.5  |
| 229     | 21.3  | 16.2  | 24.4  |





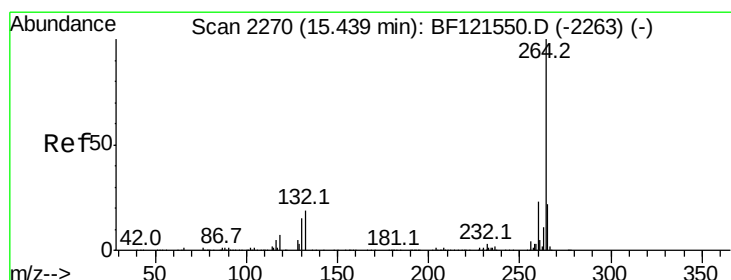
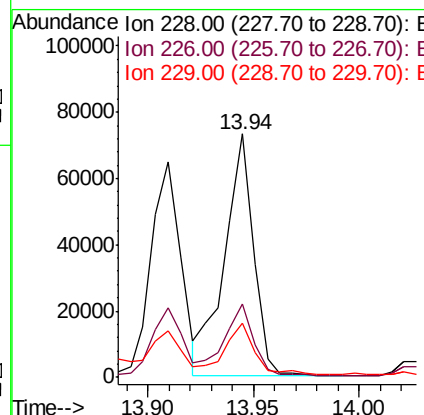
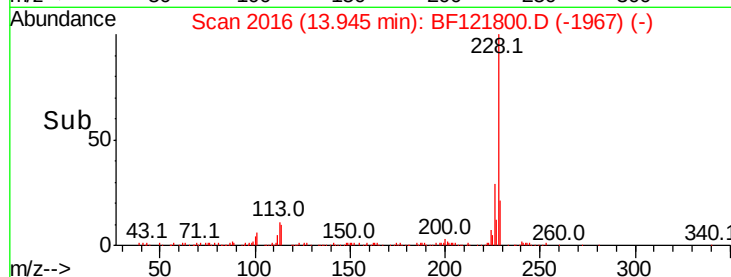
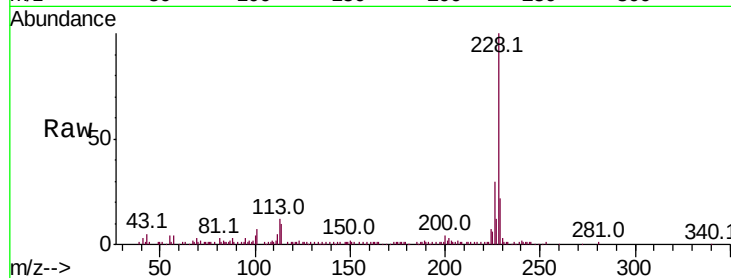
#83  
Chrysene  
Concen: 3.631 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.01 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

Instrument :  
BNA\_F  
ClientSampleId :  
B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 24.6  | 37.0  |
| 229     | 22.1  | 15.9  | 23.9  |

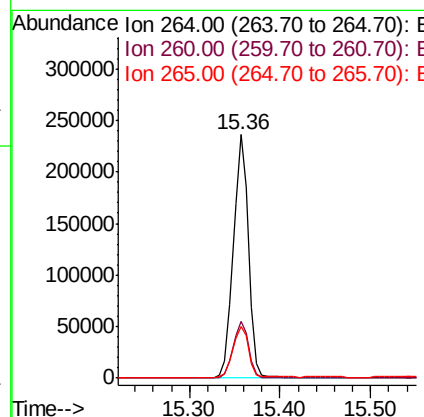
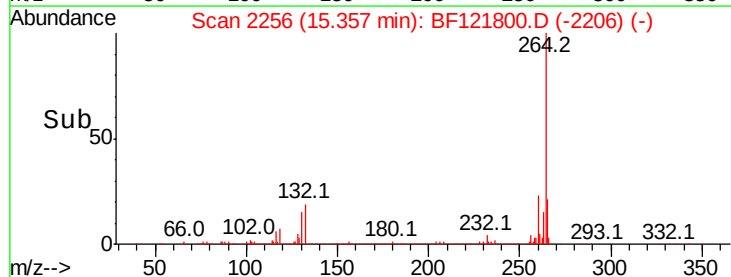
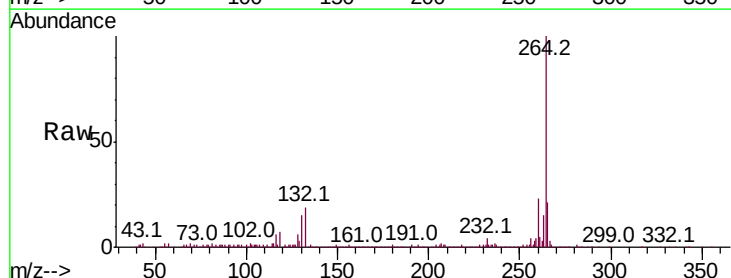
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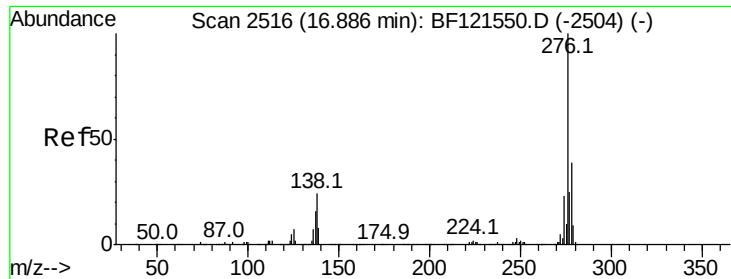
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. -0.01 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 18.7  | 28.1  |
| 265     | 21.2  | 17.3  | 25.9  |





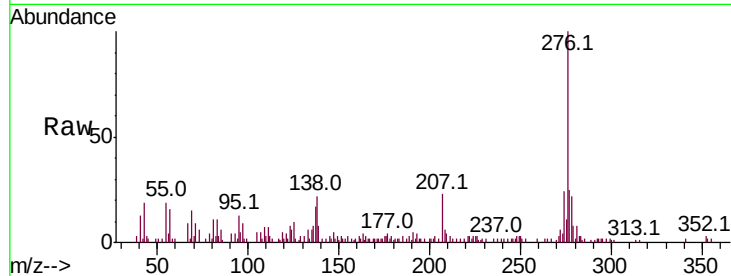
#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.153 ng  
 RT: 16.76 min Scan# 2495  
 Delta R.T. -0.02 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.7  | 19.9  | 29.9  |
| 277     | 28.5  | 20.4  | 30.6  |

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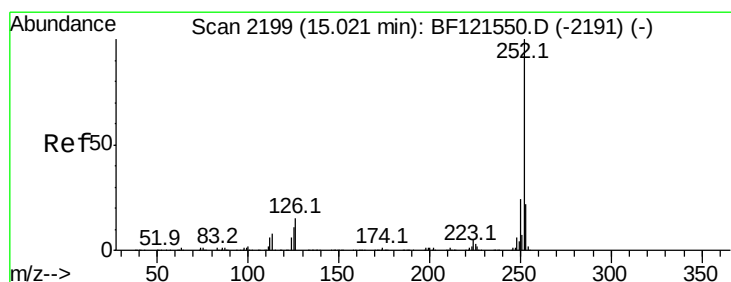
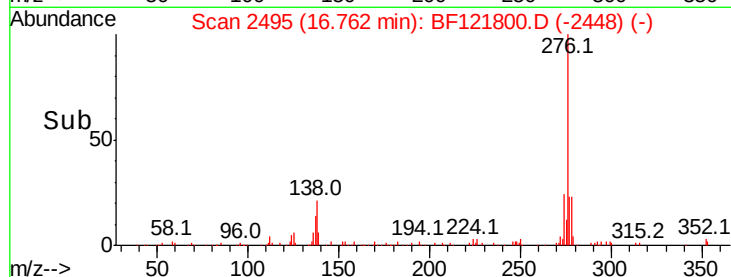
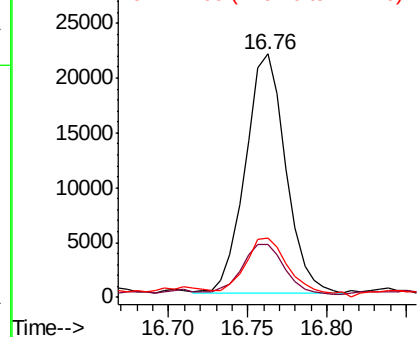


Abundance

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



#88  
 Benzo(b)fluoranthene  
 Concen: 4.569 ng m  
 RT: 14.94 min Scan# 2186  
 Delta R.T. -0.01 min  
 Lab File: BF121800.D  
 Acq: 2 Oct 2020 18:15

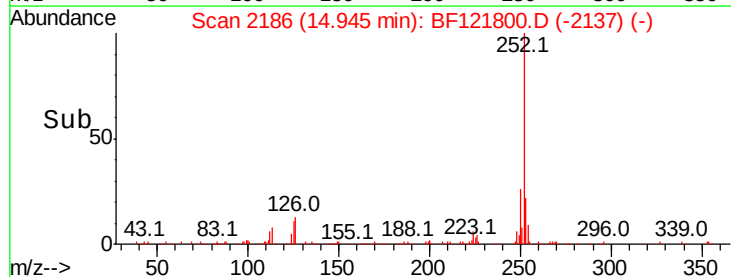
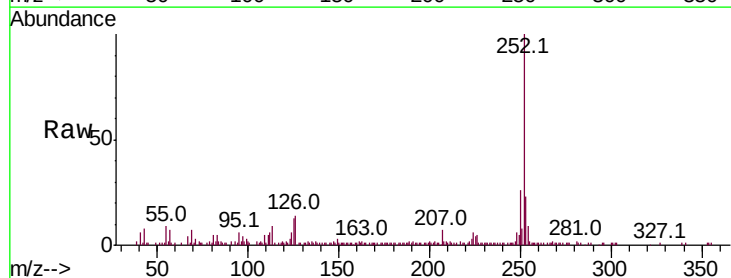
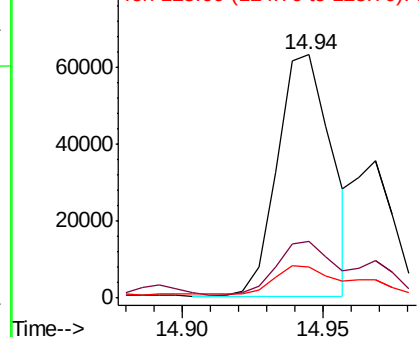
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.2  | 27.2  |
| 125     | 12.7  | 8.0   | 12.0# |

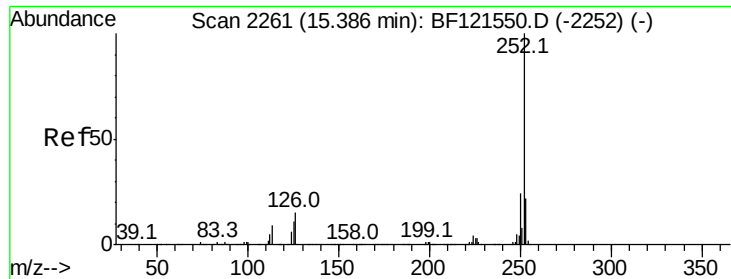
Abundance

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





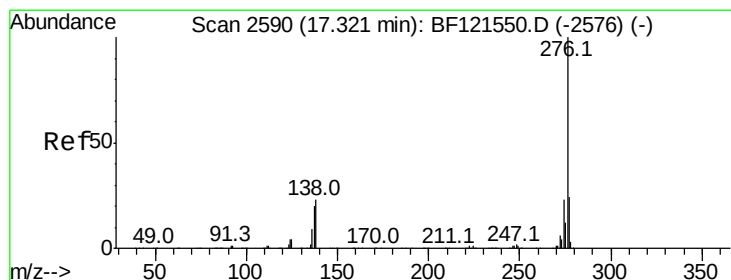
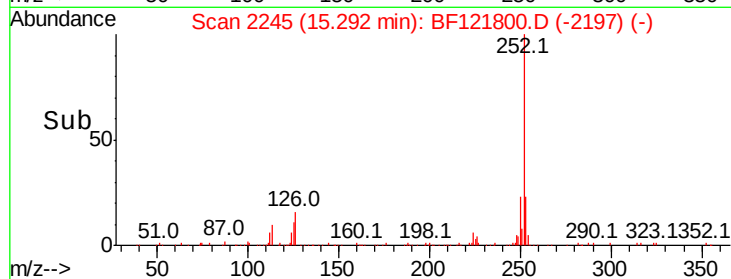
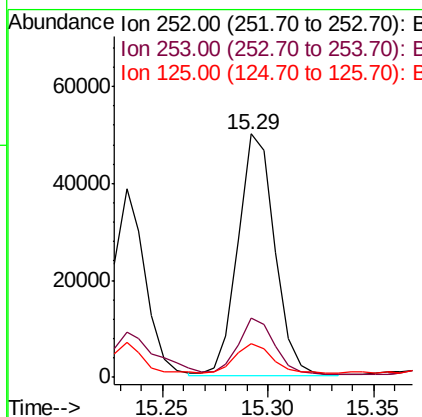
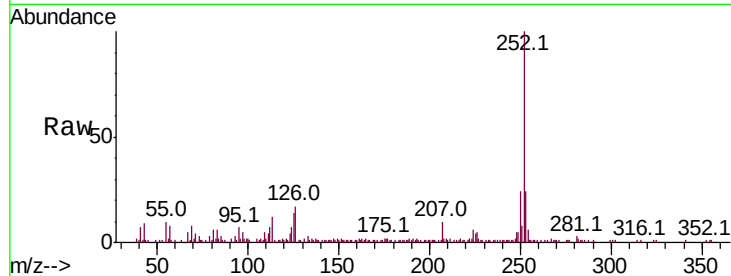
#90  
Benzo(a)pyrene  
Concen: 3.825 ng  
RT: 15.29 min Scan# 2245  
Delta R.T. -0.02 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

Instrument :  
BNA\_F  
ClientSampleId :  
B-15(3-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.3  | 25.9  |
| 125     | 13.6  | 8.6   | 13.0  |

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#92  
Benzo(g,h,i)perylene  
Concen: 2.614 ng  
RT: 17.19 min Scan# 2567  
Delta R.T. -0.02 min  
Lab File: BF121800.D  
Acq: 2 Oct 2020 18:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.0  | 19.4  | 29.2  |
| 138     | 23.3  | 17.8  | 26.6  |

