

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111819\  
 Data File : BF117838.D  
 Acq On : 18 Nov 2019 16:35  
 Operator : JU  
 Sample : K5833-04  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 7-(4-6)

Manual Integrations  
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 11/19/2019 2:35:46 PM

Quant Time: Nov 19 00:00:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 18:36:07 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.92  | 152  | 229439   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.20  | 136  | 873493   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.97  | 164  | 444452   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.46 | 188  | 781194   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 14.11 | 240  | 447552   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.62 | 264  | 578773   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.53  | 112  | 1261164  | 97.30  | ng    | 0.00     |
| 7) Phenol-d6                | 6.54  | 99   | 1602315  | 102.49 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.48  | 82   | 983574   | 66.94  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.76 | 330  | 457820   | 97.30  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.29  | 172  | 1849262  | 74.65  | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.05 | 244  | 1642742  | 67.08  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.55  | 94   | 61903    | 3.810  | ng    | 96       |
| 50) Dimethylphthalate       | 9.67  | 163  | 289343   | 9.284  | ng    | 99       |
| 71) Phenanthrene            | 11.49 | 178  | 804974   | 20.495 | ng    | 98       |
| 72) Anthracene              | 11.53 | 178  | 125982   | 3.235  | ng    | 97       |
| 75) Fluoranthene            | 12.67 | 202  | 826260   | 18.705 | ng    | 98       |
| 78) Pyrene                  | 12.91 | 202  | 831705   | 22.995 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.10 | 228  | 291463   | 9.855  | ng    | 96       |
| 83) Chrysene                | 14.13 | 228  | 327201   | 11.417 | ng    | 99       |
| 86) Indeno(1,2,3-cd)pyrene  | 17.14 | 276  | 155541   | 6.377  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.17 | 252  | 395631m  | 10.521 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.20 | 252  | 91278m   | 2.576  | ng    |          |
| 90) Benzo(a)pyrene          | 15.55 | 252  | 225575   | 6.822  | ng    | 99       |
| 92) Benzo(a,h,i)perylene    | 17.60 | 276  | 157769   | 5.566  | ng    | 99       |

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

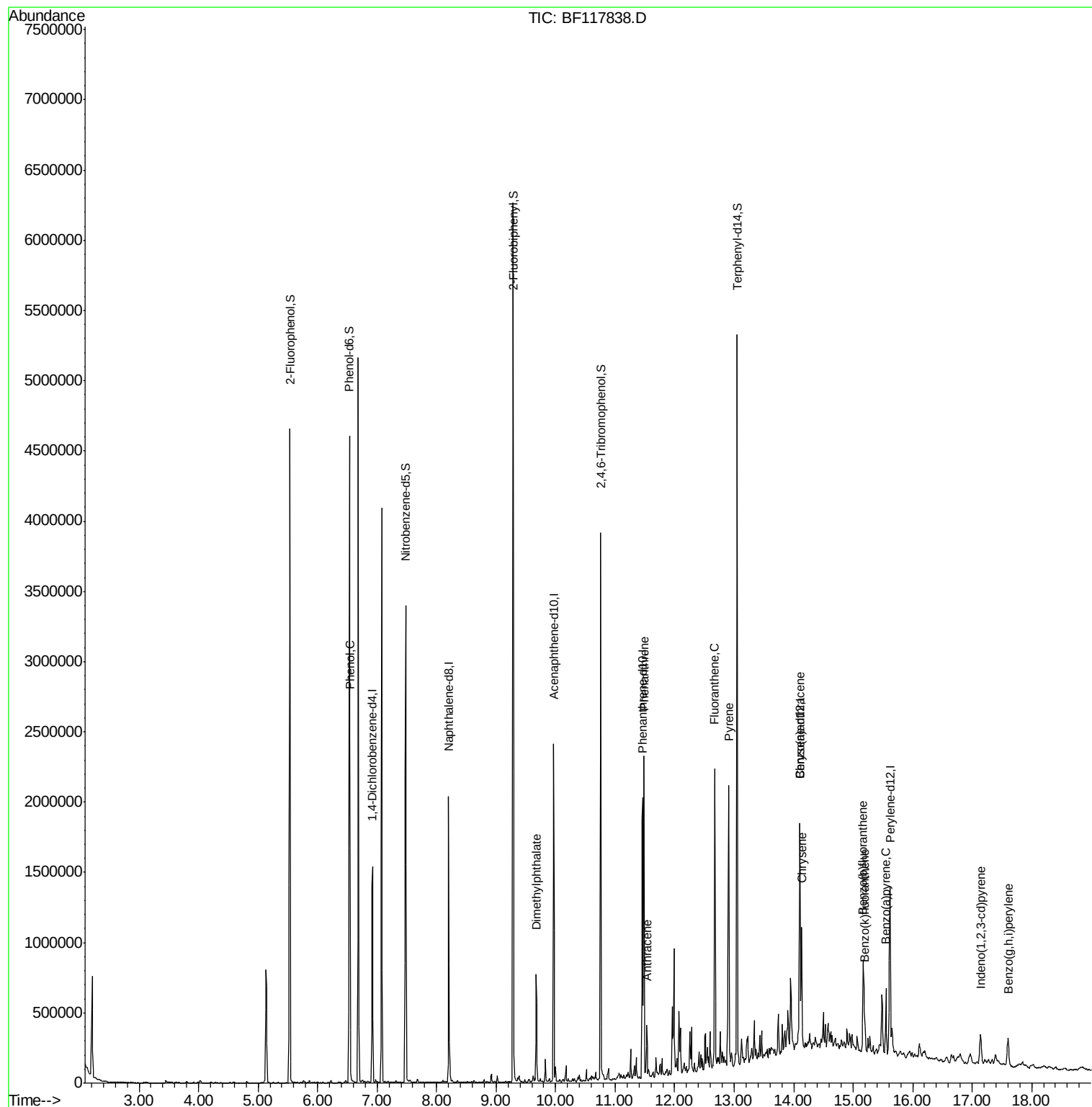
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111819\  
Data File : BF117838.D  
Acq On : 18 Nov 2019 16:35  
Operator : JU  
Sample : K5833-04  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

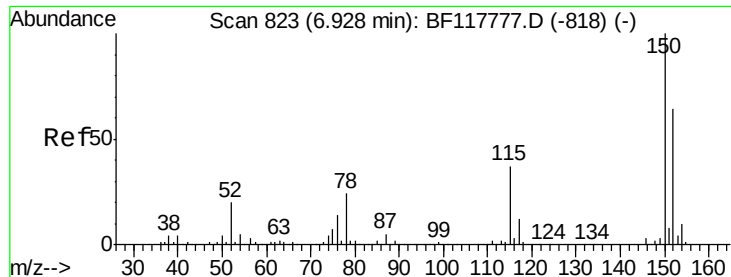
Instrument :  
BNA\_F  
ClientSampleId :  
7-(4-6)

Quant Time: Nov 19 00:00:31 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 13 18:36:07 2019  
Response via : Initial Calibration

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#1

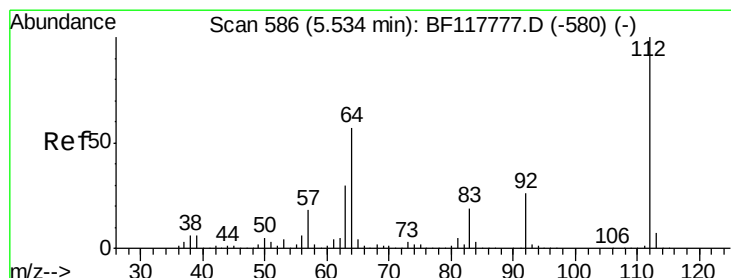
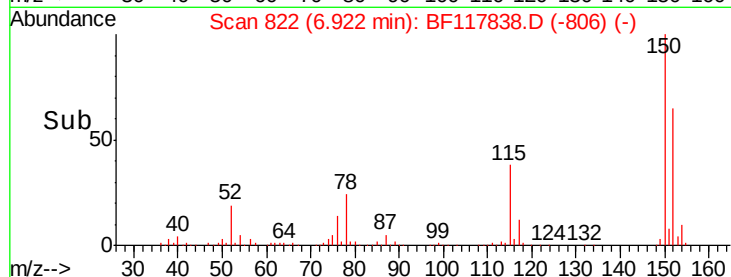
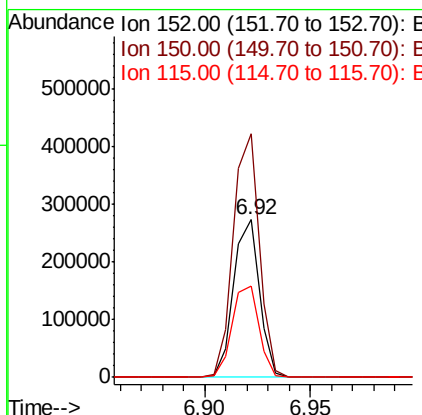
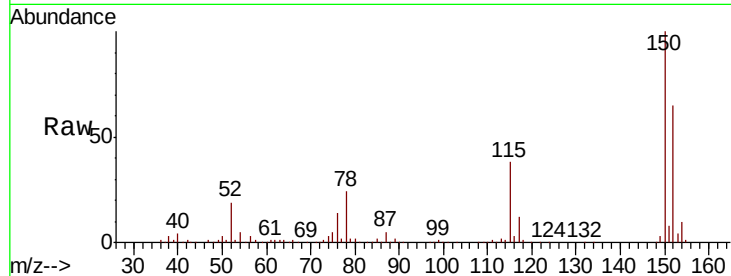
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.92 min Scan# 822  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampled :  
7-(4-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.4 | 125.3 | 187.9 |
| 115     | 58.1  | 47.0  | 70.4  |

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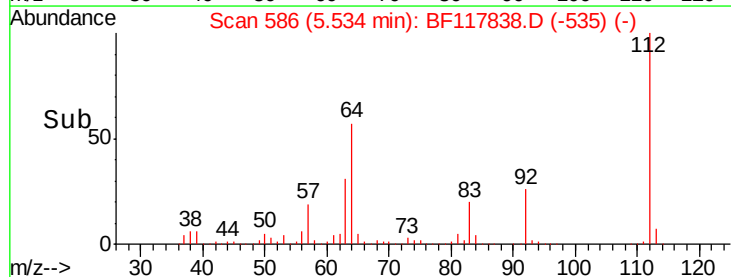
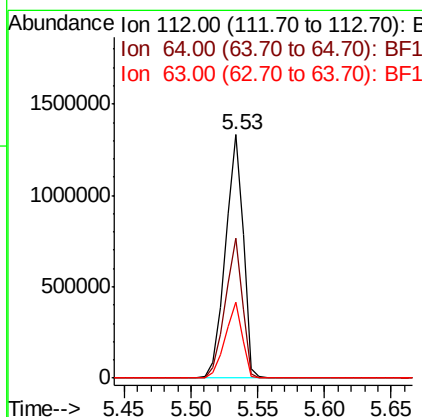
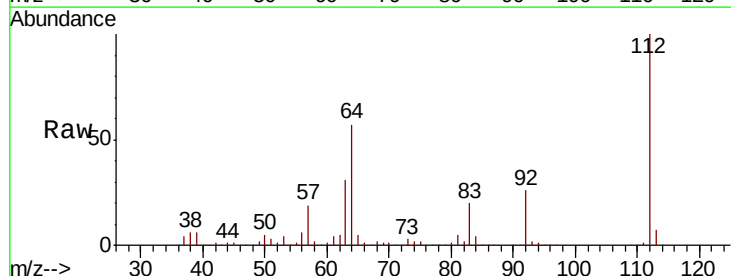
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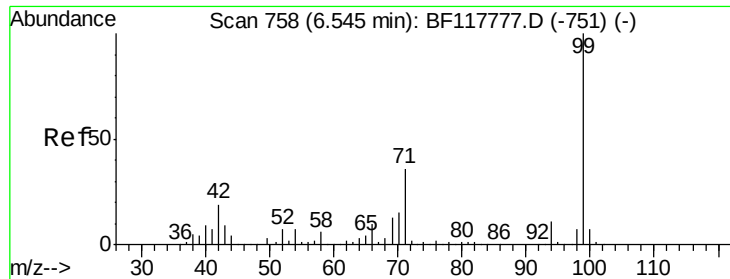


#5

2-Fluorophenol  
Concen: 97.298 ng  
RT: 5.53 min Scan# 586  
Delta R.T. -0.00 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.4  | 45.6  | 68.4  |
| 63      | 31.1  | 24.1  | 36.1  |





#7

Phenol-d6

Concen: 102.488 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF117838.D

Acq: 18 Nov 2019 16:35

Instrument :

BNA\_F

ClientSampleId :

7-(4-6)

Tot Ion: 99 Resp: 1602315

Ion Ratio Lower Upper

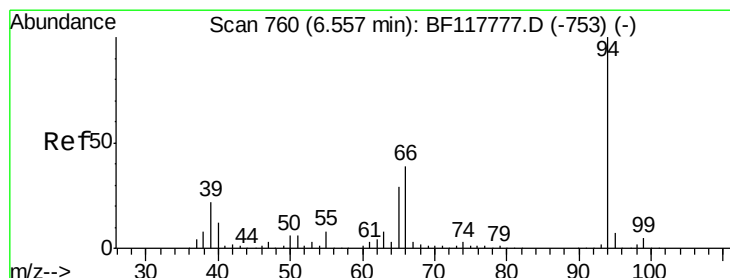
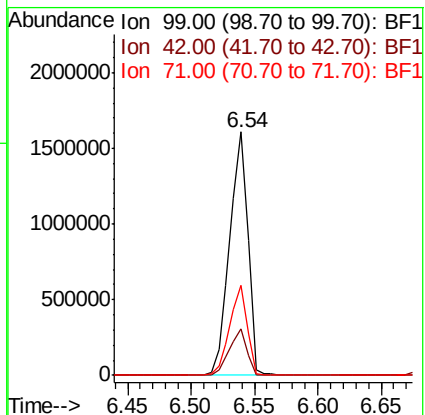
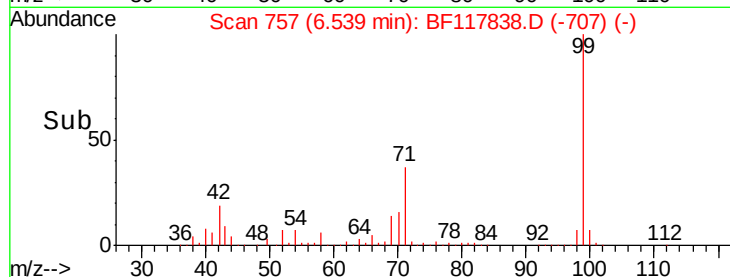
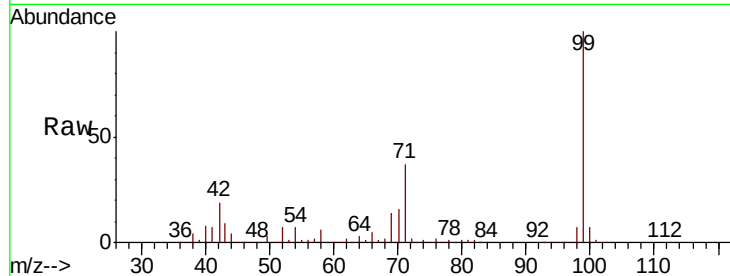
99 100

42 18.9 14.9 22.3

71 37.0 28.6 43.0

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#10

Phenol

Concen: 3.810 ng

RT: 6.55 min Scan# 759

Delta R.T. -0.01 min

Lab File: BF117838.D

Acq: 18 Nov 2019 16:35

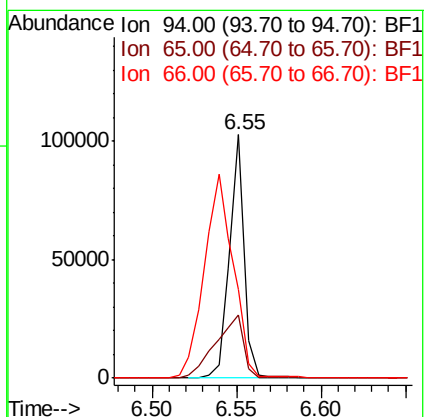
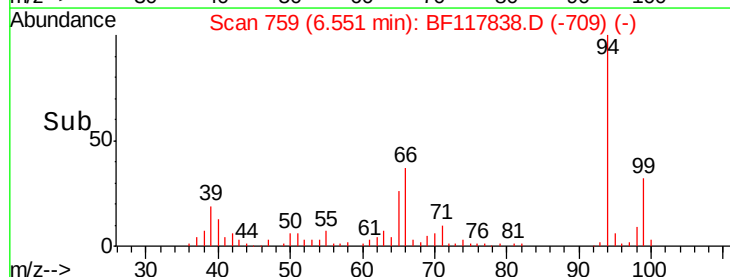
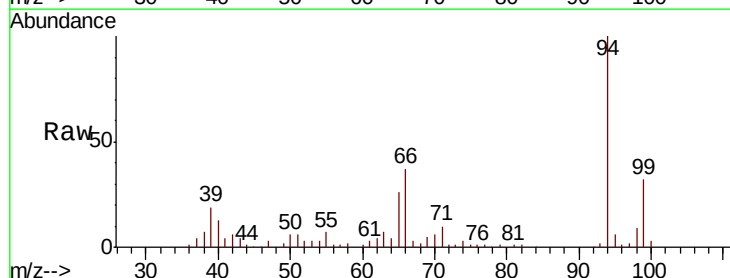
Tgt Ion: 94 Resp: 61903

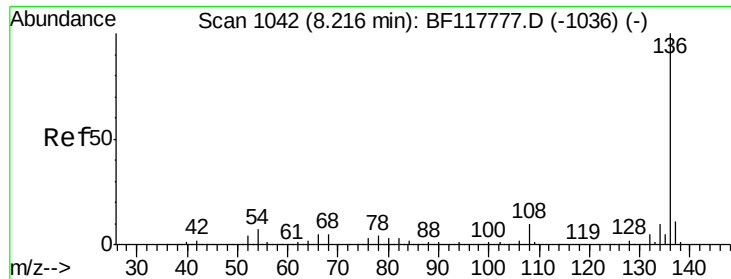
Ion Ratio Lower Upper

94 100

65 26.0 8.9 48.9

66 36.7 18.7 58.7





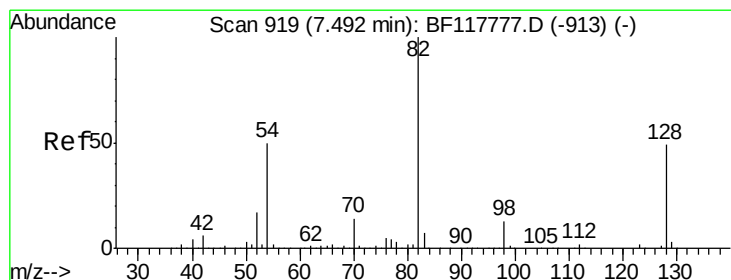
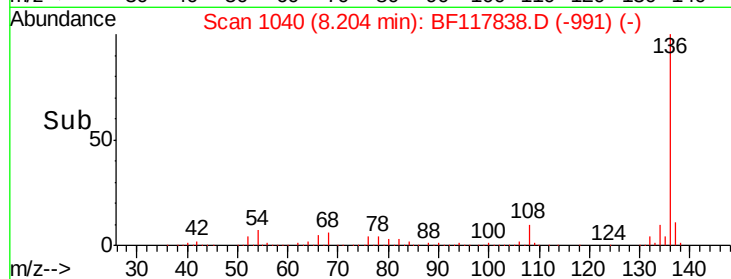
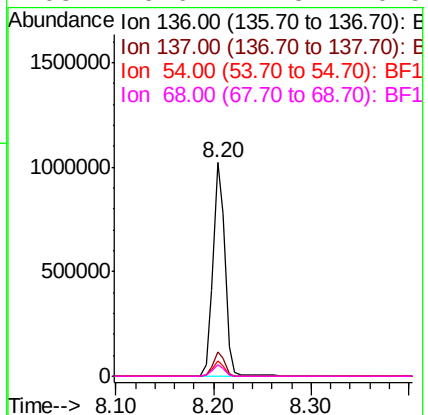
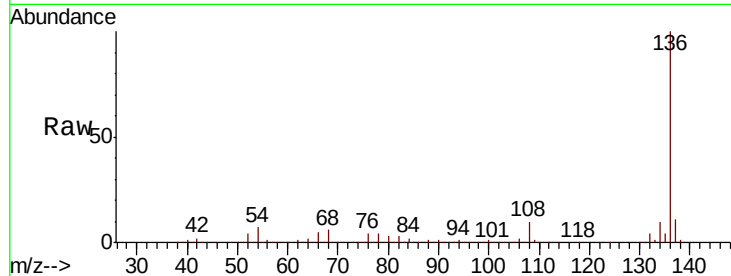
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampleId :  
7-(4-6)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 873493 |       |       |
| 137     | 11.3  |        | 9.0   | 13.4  |
| 54      | 7.2   |        | 5.4   | 8.2   |
| 68      | 5.6   |        | 4.3   | 6.5   |

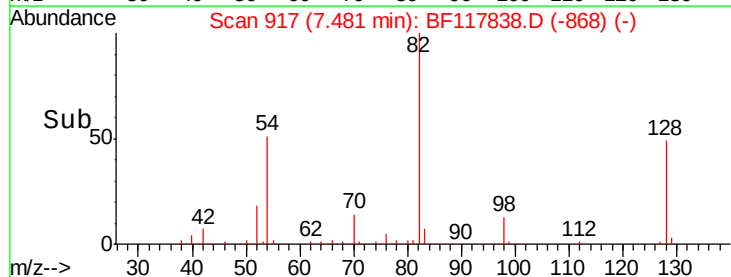
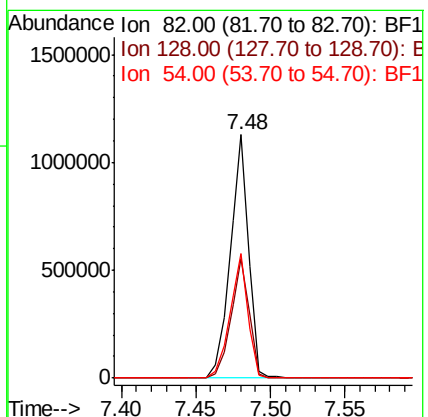
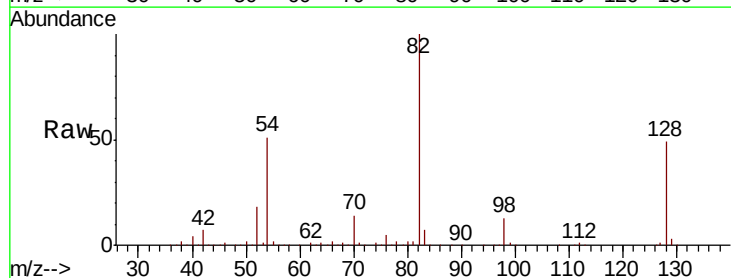
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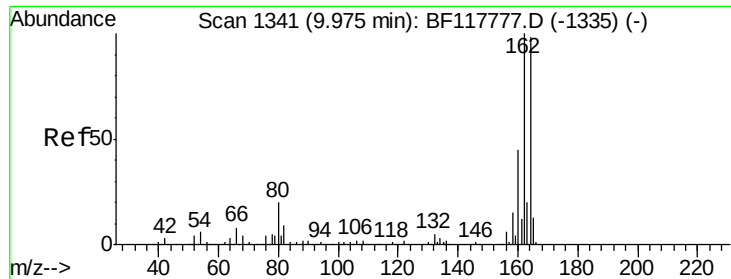
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#23  
Nitrobenzene-d5  
Concen: 66.937 ng  
RT: 7.48 min Scan# 917  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 983574 |       |       |
| 128     | 48.8  |        | 38.9  | 58.3  |
| 54      | 51.1  |        | 39.8  | 59.6  |





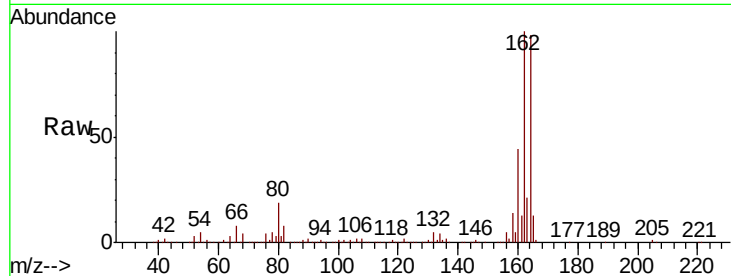
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.97 min Scan# 1340  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampleId :  
7-(4-6)

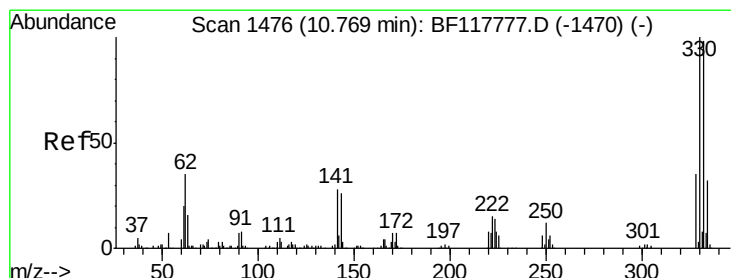
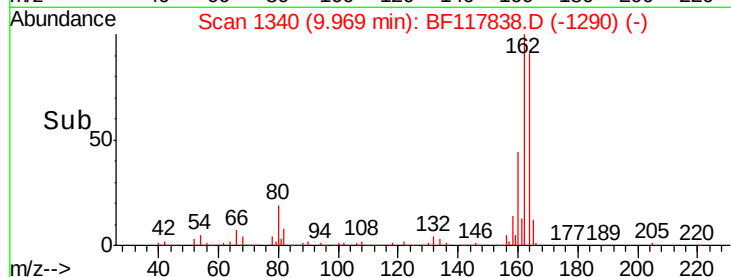
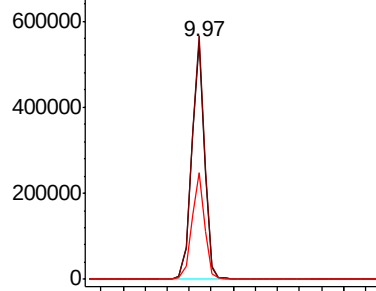
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.4 | 81.3 | 121.9 |       |
| 160     | 45.1  | 36.6 | 55.0  |       |

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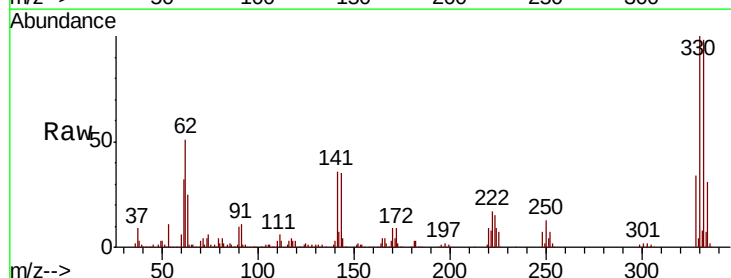


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

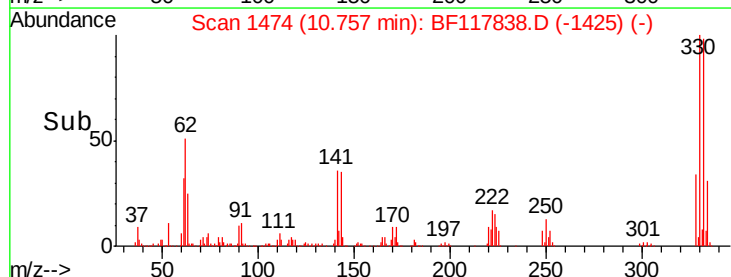
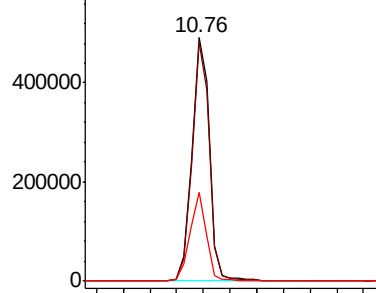


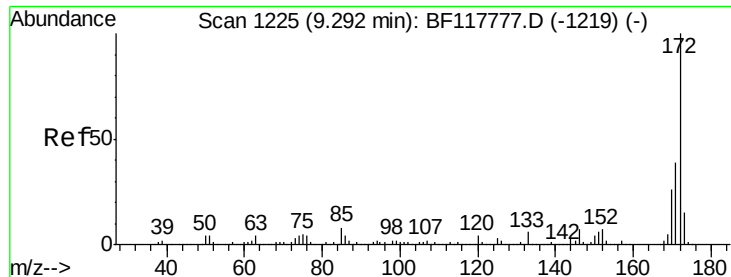
#42  
2,4,6-Tribromophenol  
Concen: 97.297 ng  
RT: 10.76 min Scan# 1474  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.6  | 76.7 | 115.1 |       |
| 141     | 33.8  | 27.7 | 41.5  |       |



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





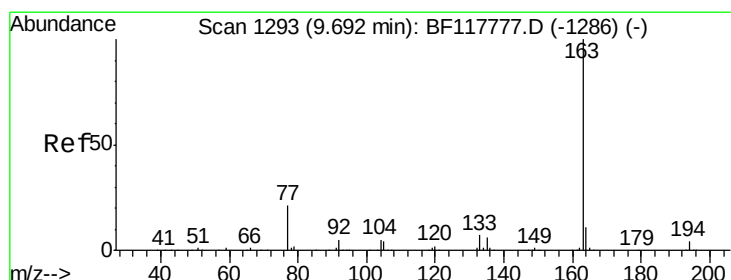
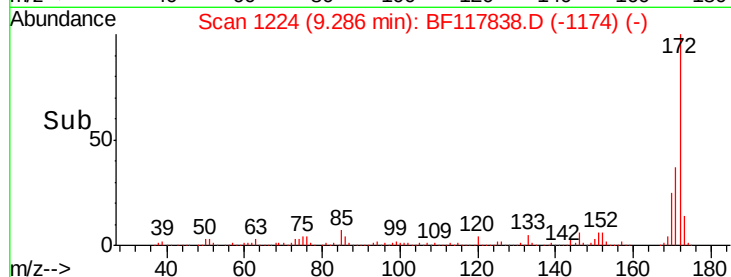
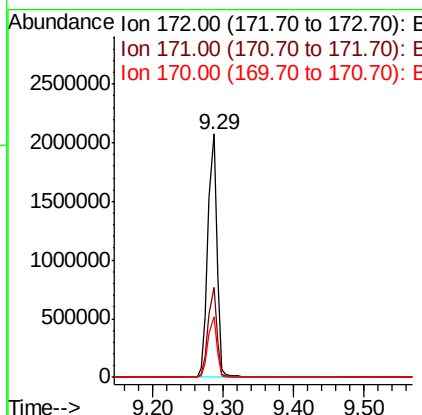
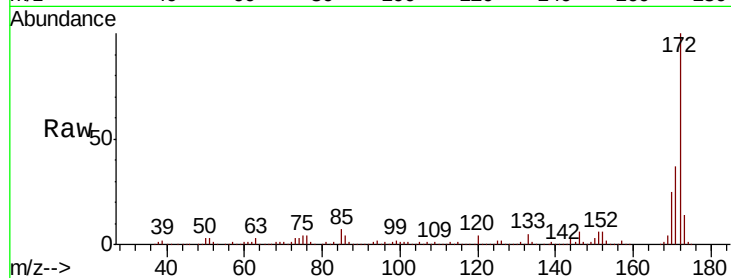
#45  
2-Fluorobiphenyl  
Concen: 74.646 ng  
RT: 9.29 min Scan# 1224  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampled :  
7-(4-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.1  | 30.9  | 46.3  |
| 170     | 25.1  | 21.0  | 31.4  |

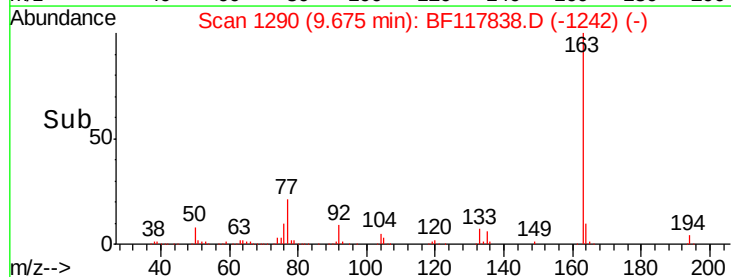
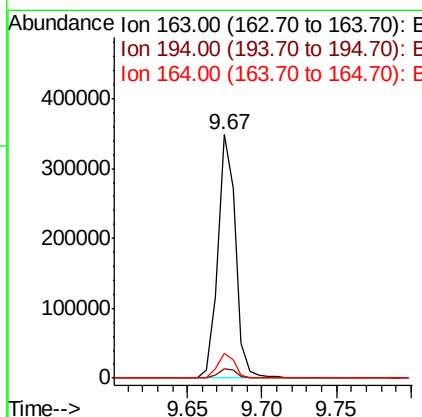
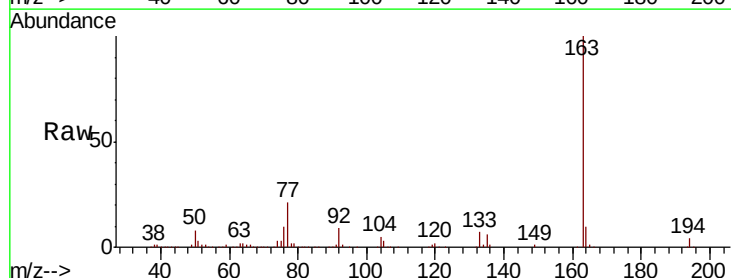
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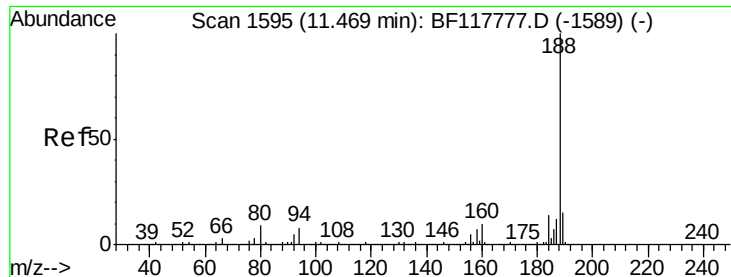
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#50  
Dimethylphthalate  
Concen: 9.284 ng  
RT: 9.67 min Scan# 1290  
Delta R.T. -0.02 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 3.3   | 4.9   |
| 164     | 10.3  | 8.7   | 13.1  |





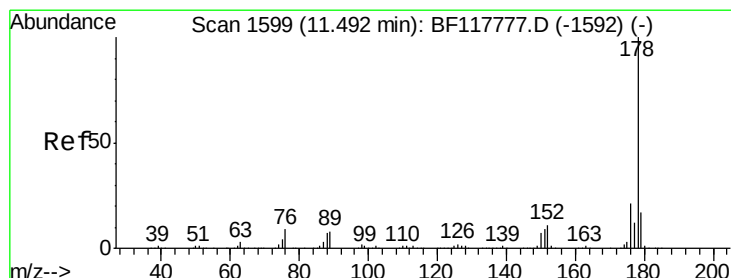
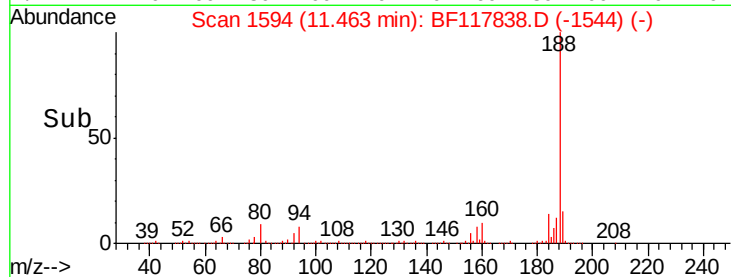
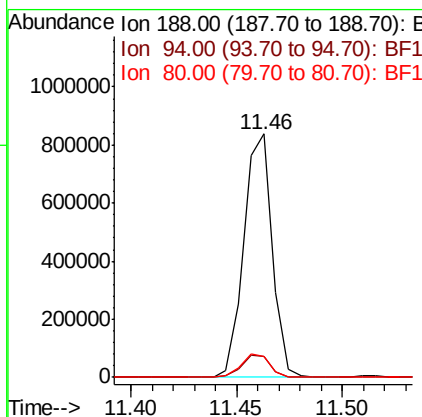
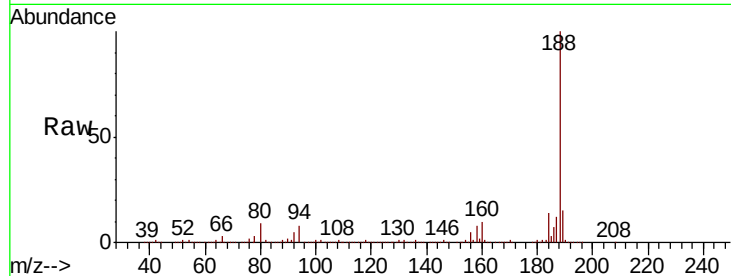
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.46 min Scan# 1594  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampled :  
7-(4-6)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 781194 |       |       |
| 94      | 8.4   |        | 6.6   | 10.0  |
| 80      | 8.6   |        | 7.2   | 10.8  |

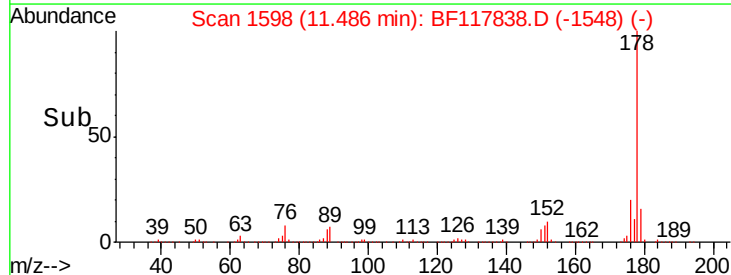
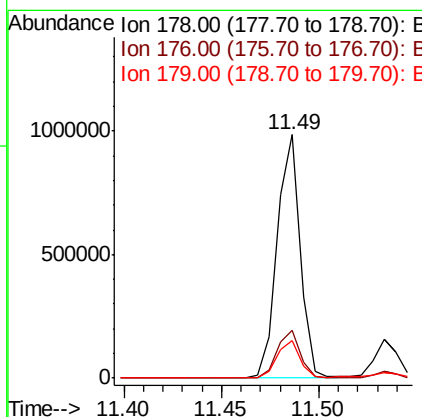
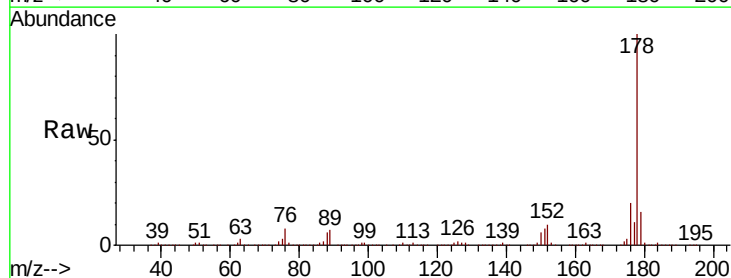
Manual Integrations  
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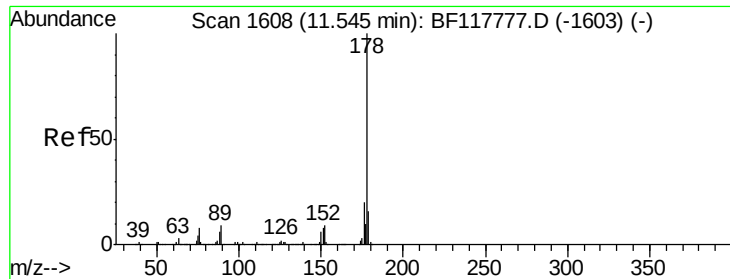


#71  
Phenanthrene  
Concen: 20.495 ng  
RT: 11.49 min Scan# 1598  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 804974 |       |       |
| 176     | 19.6  |        | 16.6  | 25.0  |
| 179     | 15.6  |        | 13.2  | 19.8  |







#72

Anthracene

Concen: 3.235 ng

RT: 11.53 min Scan# 1606

Delta R.T. -0.01 min

Lab File: BF117838.D

Acq: 18 Nov 2019 16:35

Instrument :

BNA\_F

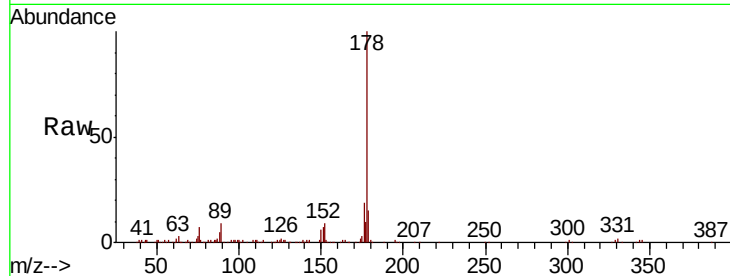
ClientSampled :

7-(4-6)

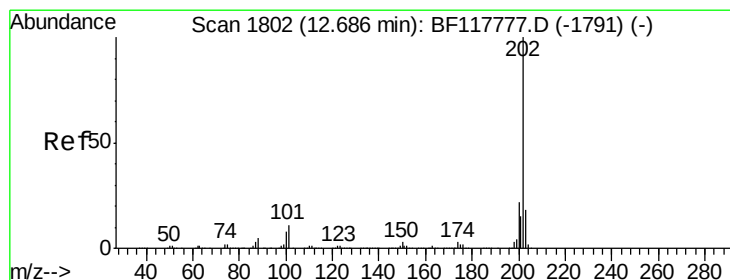
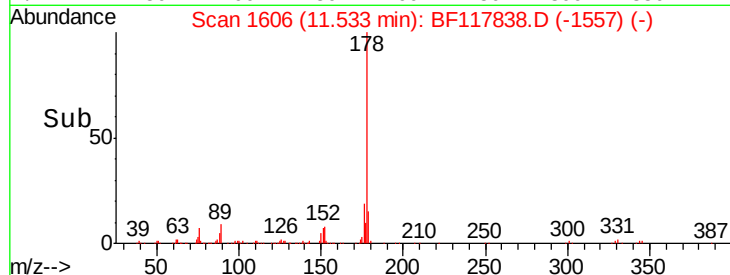
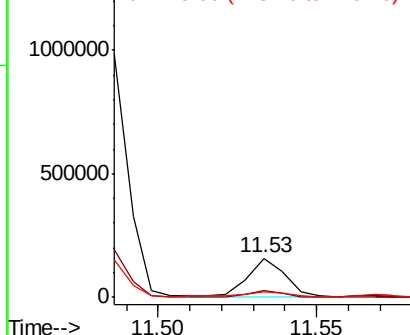
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 125982 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.6  | 16.1  | 24.1   |
| 179       | 15.1  | 13.0  | 19.4   |

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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



#75

Fluoranthene

Concen: 18.705 ng

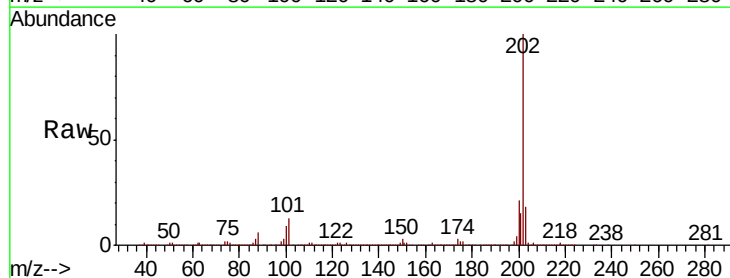
RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

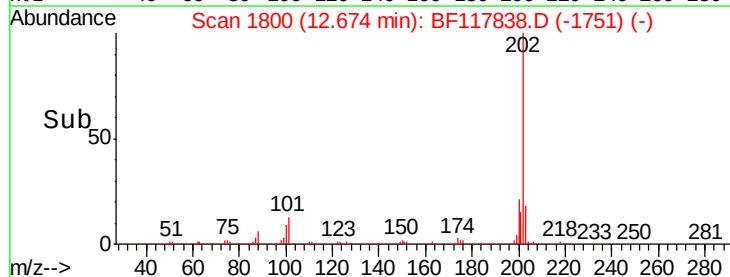
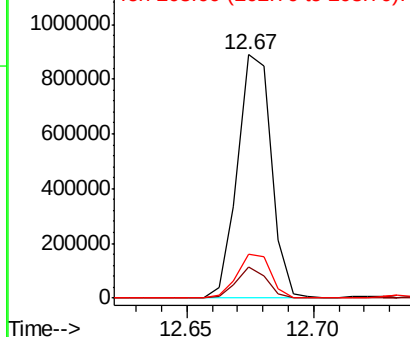
Lab File: BF117838.D

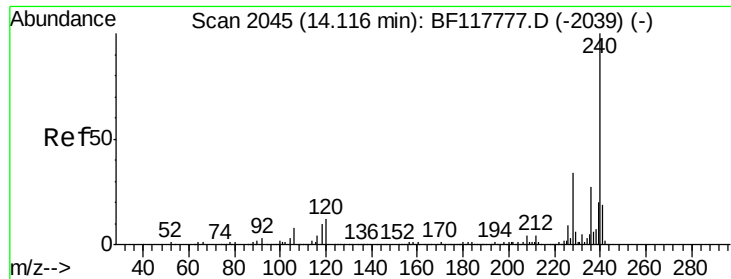
Acq: 18 Nov 2019 16:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 826260 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.6  | 0.0   | 31.1   |
| 203       | 18.1  | 0.0   | 38.2   |



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





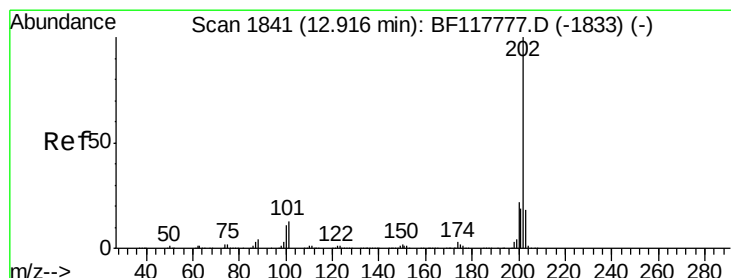
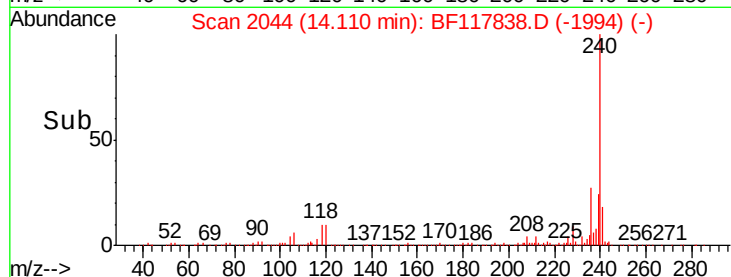
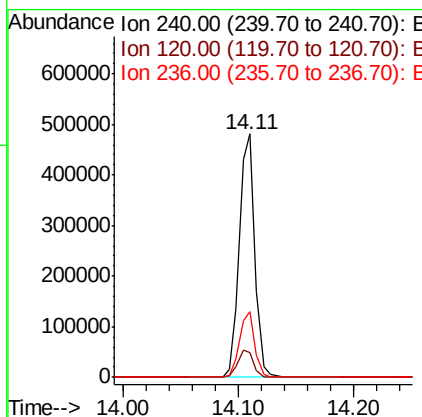
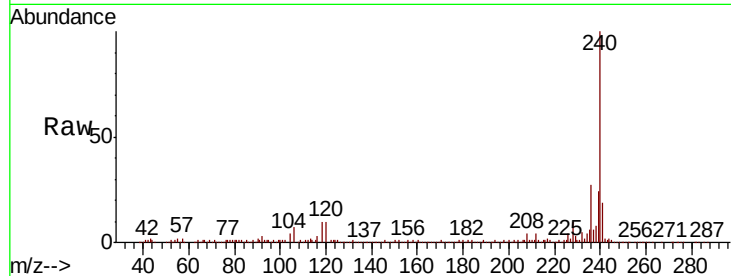
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.11 min Scan# 2044  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampleId :  
7-(4-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.1  | 9.5   | 14.3  |
| 236     | 26.8  | 21.3  | 31.9  |

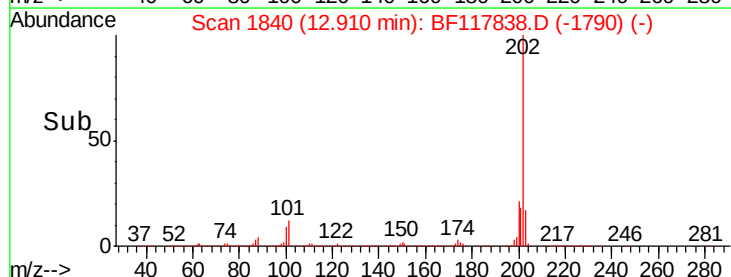
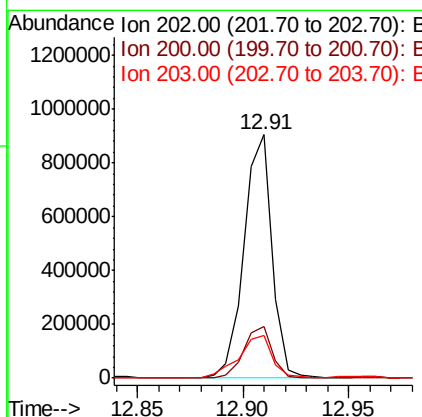
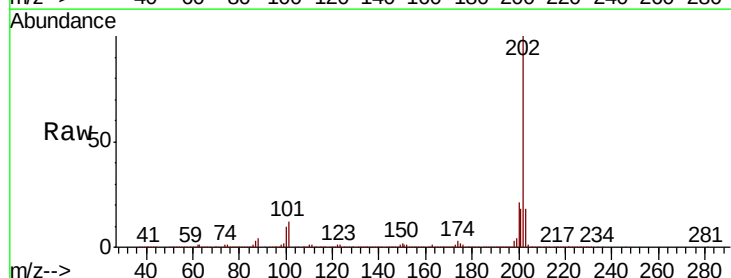
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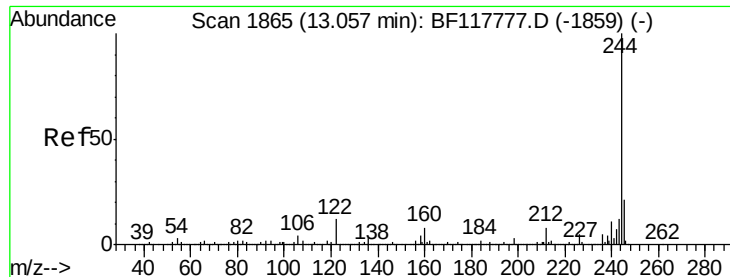
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#78  
Pyrene  
Concen: 22.995 ng  
RT: 12.91 min Scan# 1840  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.8  | 26.8  |
| 203     | 17.6  | 14.6  | 22.0  |





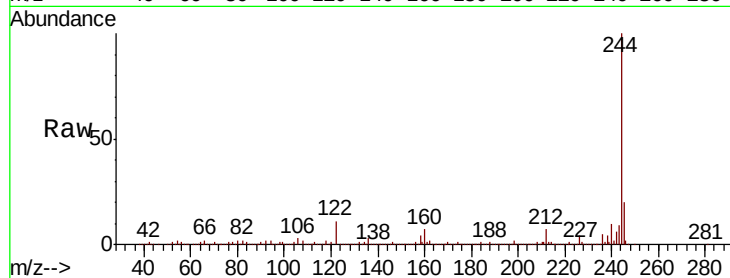
#79  
 Terphenyl-d14  
 Concen: 67.083 ng  
 RT: 13.05 min Scan# 1864  
 Delta R.T. -0.01 min  
 Lab File: BF117838.D  
 Acq: 18 Nov 2019 16:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 7-(4-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 6.3   | 9.5   |
| 122     | 10.6  | 9.4   | 14.2  |

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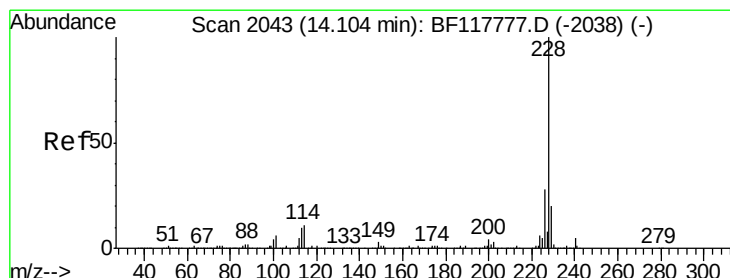
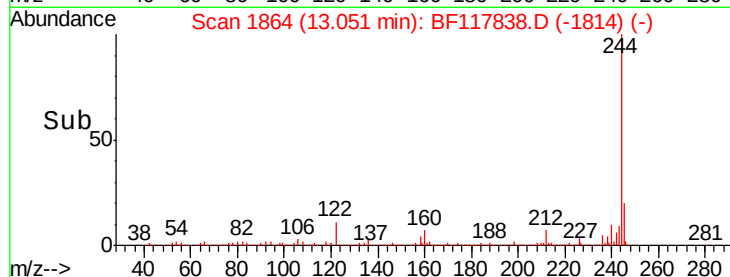
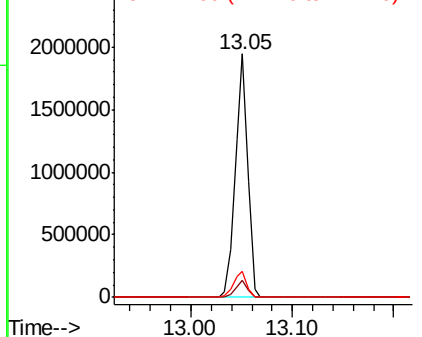


Abundance

Ion 244.00 (243.70 to 244.70): E

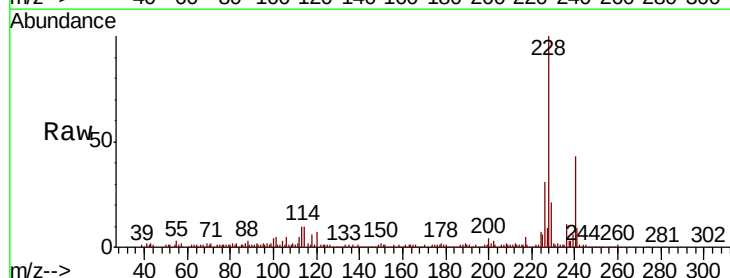
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81  
 Benzo(a)anthracene  
 Concen: 9.855 ng  
 RT: 14.10 min Scan# 2042  
 Delta R.T. -0.01 min  
 Lab File: BF117838.D  
 Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.7  | 22.2  | 33.2  |
| 229     | 20.8  | 15.9  | 23.9  |

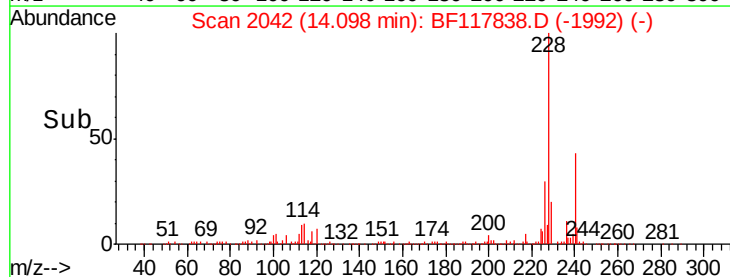
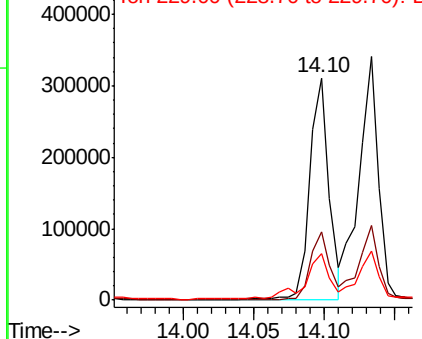


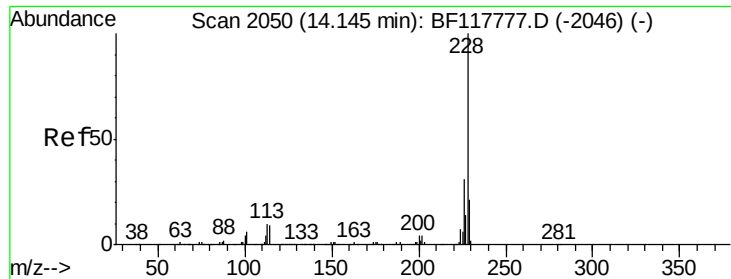
Abundance

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





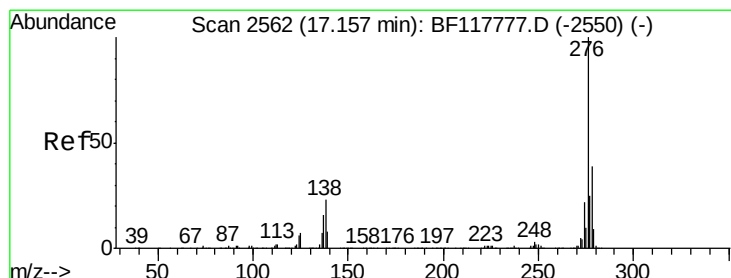
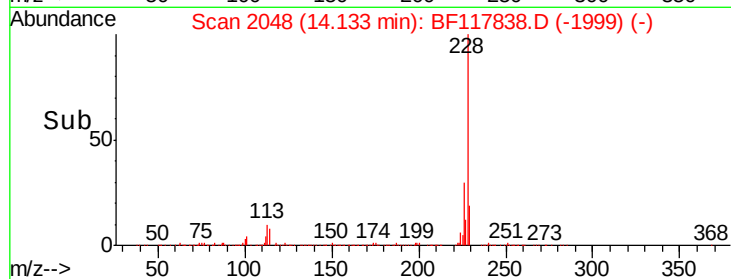
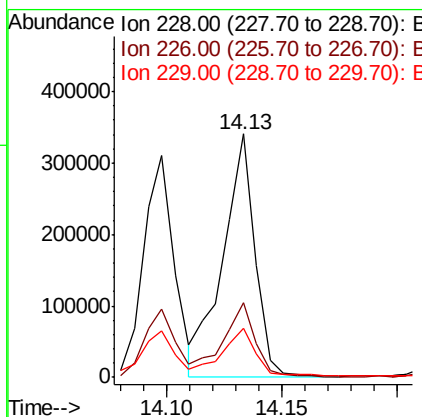
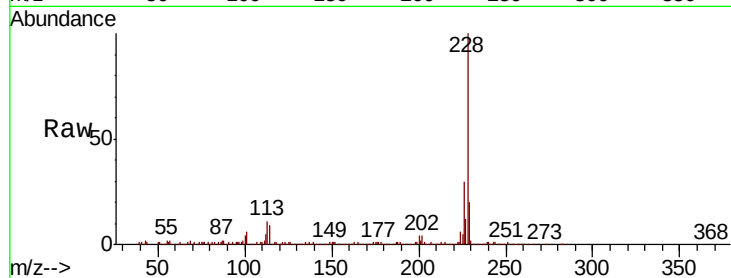
#83  
Chrysene  
Concen: 11.417 ng  
RT: 14.13 min Scan# 2048  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampleId :  
7-(4-6)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 327201 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 25.0  | 37.4   |
| 229       | 20.3  | 16.6  | 25.0   |

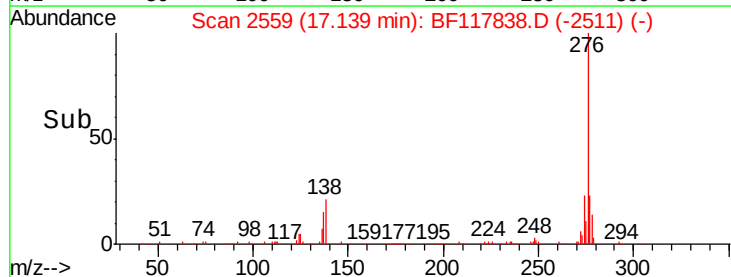
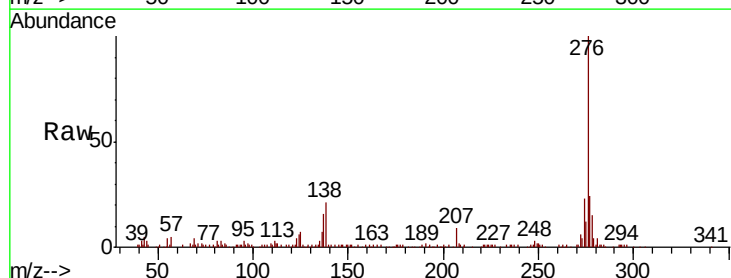
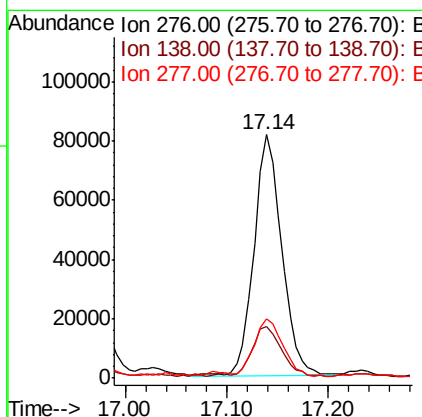
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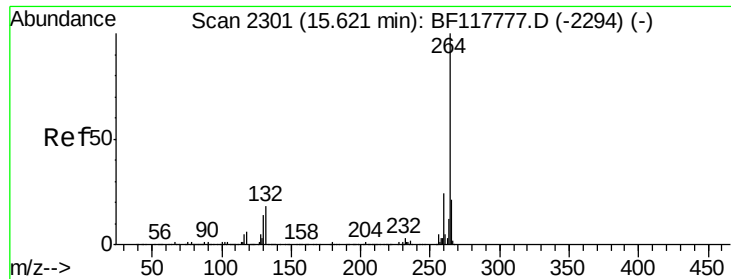
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#86  
Indeno(1,2,3-cd)pyrene  
Concen: 6.377 ng  
RT: 17.14 min Scan# 2559  
Delta R.T. -0.02 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 155541 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 22.2  | 20.9  | 31.3   |
| 277       | 24.7  | 20.3  | 30.5   |





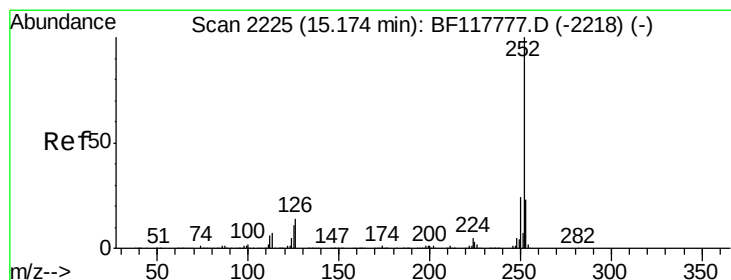
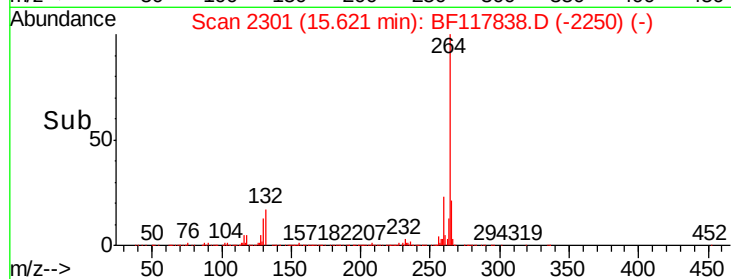
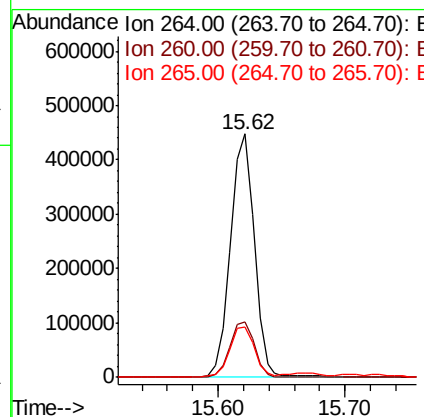
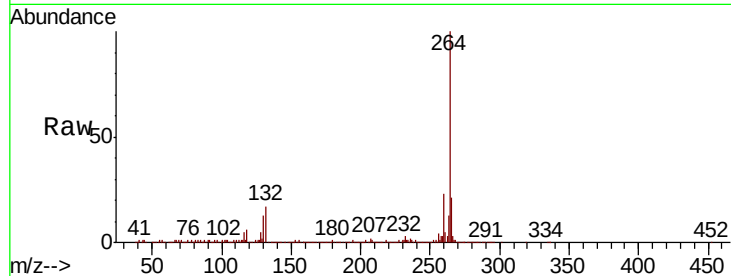
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.62 min Scan# 2301  
Delta R.T. -0.00 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampled :  
7-(4-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 19.4  | 29.0  |
| 265     | 20.9  | 17.1  | 25.7  |

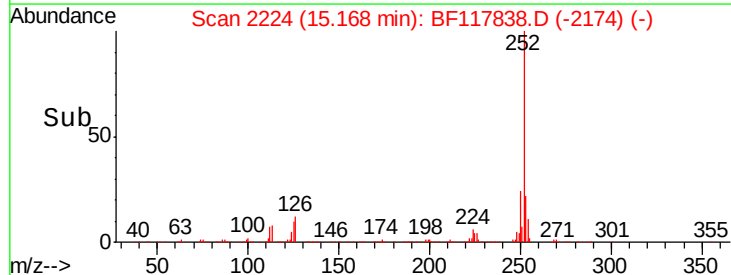
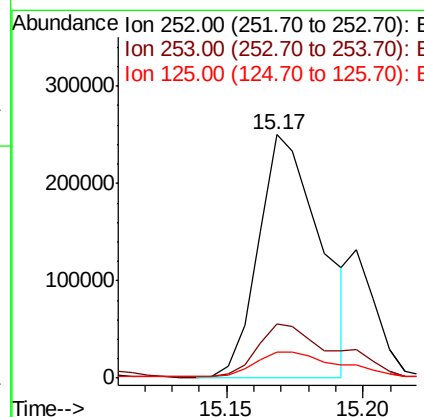
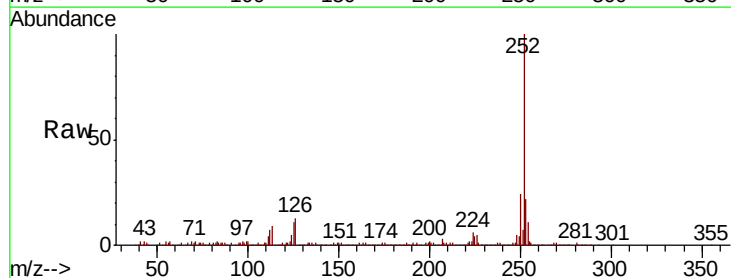
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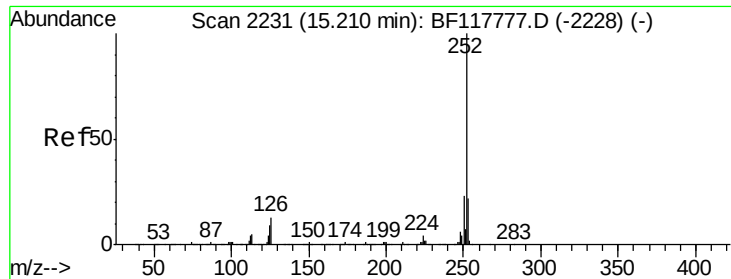
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#88  
Benzo(b)fluoranthene  
Concen: 10.521 ng m  
RT: 15.17 min Scan# 2224  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 18.0  | 27.0  |
| 125     | 10.9  | 8.6   | 13.0  |





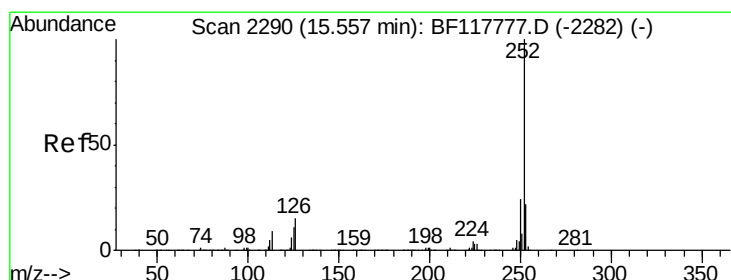
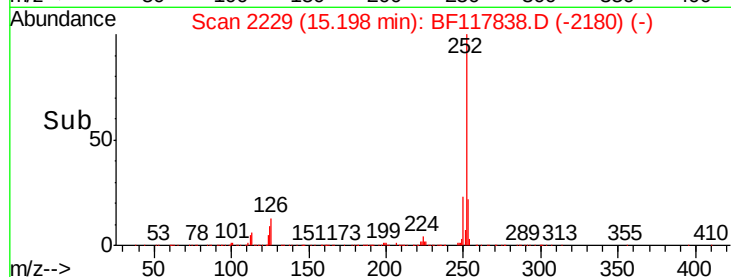
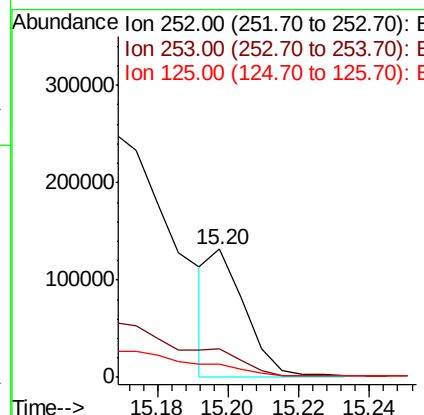
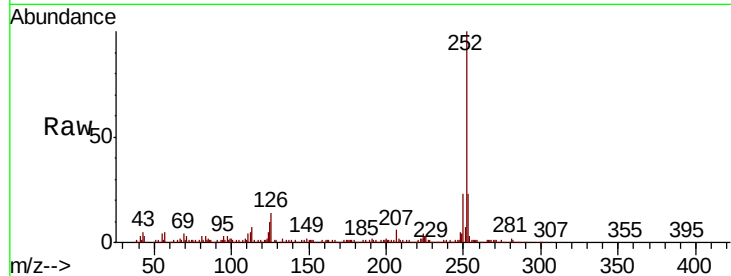
#89  
Benzo(k)fluoranthene  
Concen: 2.576 ng m  
RT: 15.20 min Scan# 2229  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

Instrument :  
BNA\_F  
ClientSampleId :  
7-(4-6)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.5  | 26.3  |
| 125     | 10.4  | 7.9   | 11.9  |

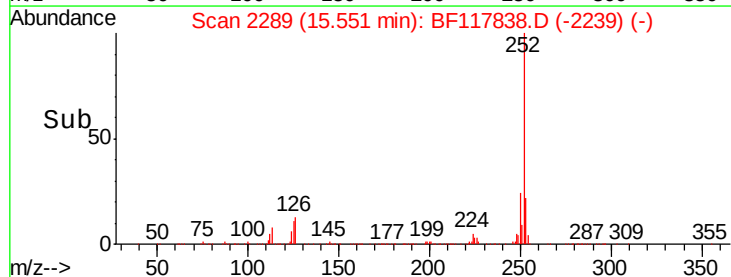
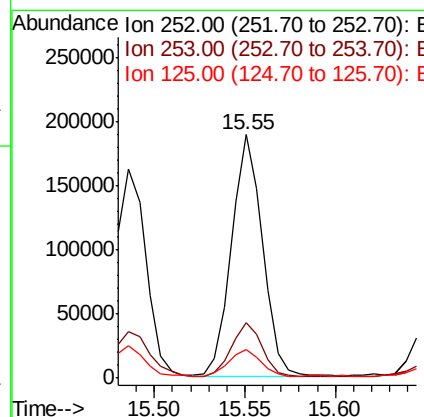
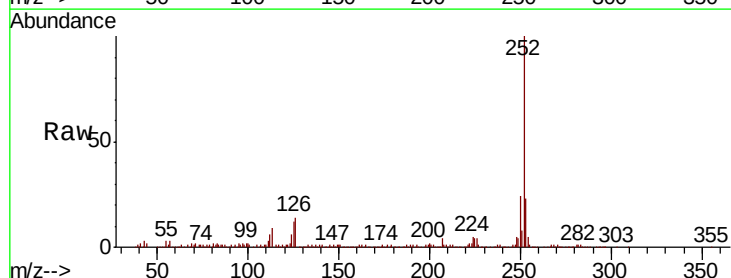
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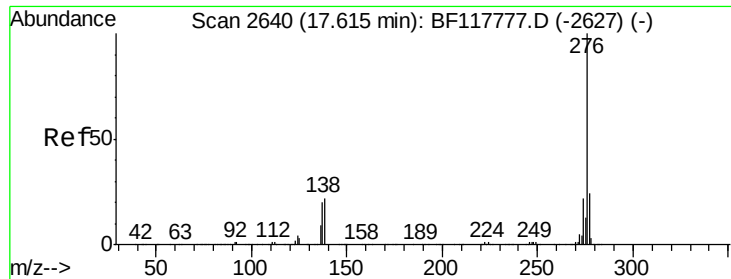
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#90  
Benzo(a)pyrene  
Concen: 6.822 ng  
RT: 15.55 min Scan# 2289  
Delta R.T. -0.01 min  
Lab File: BF117838.D  
Acq: 18 Nov 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.8  | 26.6  |
| 125     | 11.6  | 9.2   | 13.8  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 5.566 ng  
 RT: 17.60 min Scan# 2638  
 Delta R.T. -0.01 min  
 Lab File: BF117838.D  
 Acq: 18 Nov 2019 16:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 7-(4-6)

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 276  | Resp: | 157769 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 277       | 24.2 | 18.9  | 28.3   |
| 138       | 21.3 | 17.4  | 26.2   |

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