

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061319\  
 Data File : BF115024.D  
 Acq On : 14 Jun 2019 1:23  
 Operator : HP/JU  
 Sample : K3342-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-012-ABCD

Manual Integrations  
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mohammad  
 6/14/2019 8:47:28 AM

Quant Time: Jun 14 05:05:27 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 12 15:42:37 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.65  | 152  | 303147   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.93  | 136  | 1155168  | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.67  | 164  | 544030   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.14 | 188  | 980673   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12            | 13.77 | 240  | 546526   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12            | 15.14 | 264  | 566225   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.26  | 112  | 1751224  | 96.46  | ng    | 0.00     |
| 7) Phenol-d6                | 6.29  | 99   | 2246638  | 102.59 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.21  | 82   | 1363866  | 71.07  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.46 | 330  | 537706   | 92.30  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.00  | 172  | 2489894  | 77.57  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.73 | 244  | 2112413  | 72.70  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 50) Dimethylphthalate       | 9.40  | 163  | 551755   | 13.486 | ng    | 98       |
| 75) Fluoranthene            | 12.35 | 202  | 151403   | 2.924  | ng    | 96       |
| 78) Pyrene                  | 12.57 | 202  | 135834   | 2.728  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 14.76 | 252  | 118539m  | 3.149  | ng    |          |
| 90) Benzo(a)pyrene          | 15.09 | 252  | 65757    | 2.025  | ng    | 97       |

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

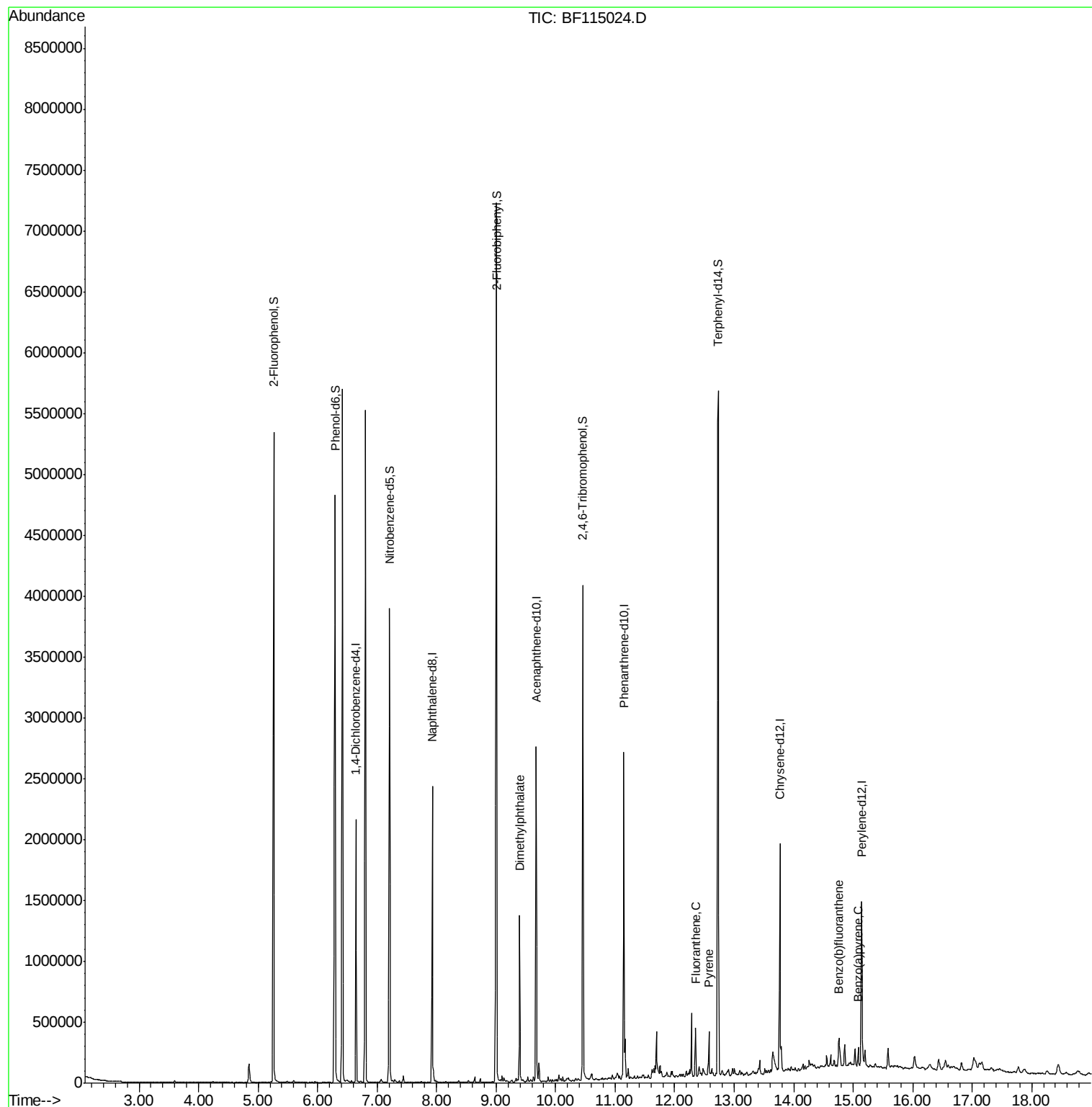
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061319\  
Data File : BF115024.D  
Acq On : 14 Jun 2019 1:23  
Operator : HP/JU  
Sample : K3342-01  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

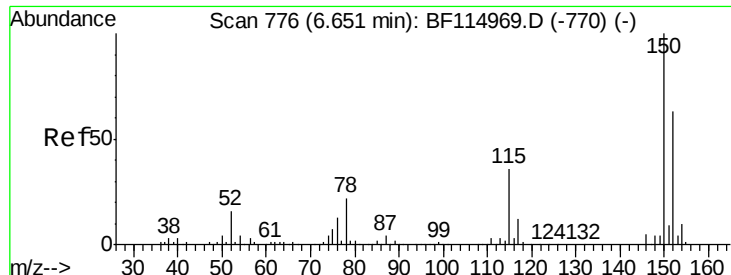
Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-012-ABCD

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Quant Time: Jun 14 05:05:27 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 12 15:42:37 2019  
Response via : Initial Calibration





#1

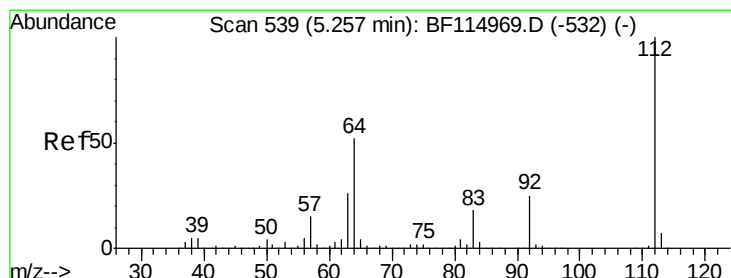
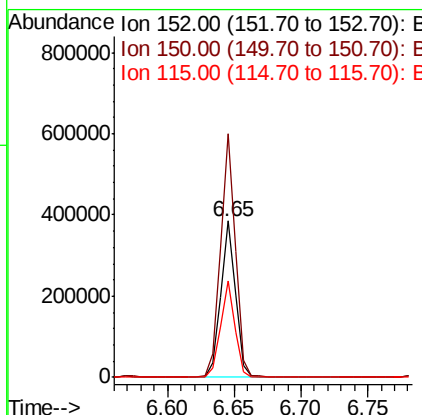
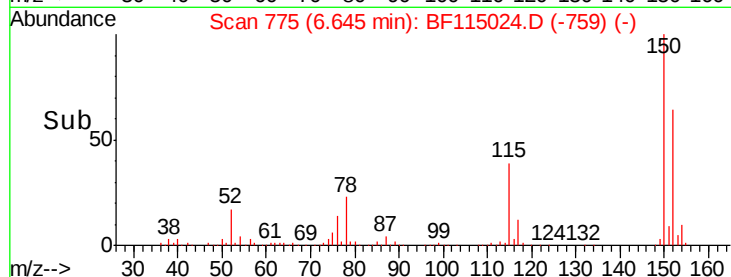
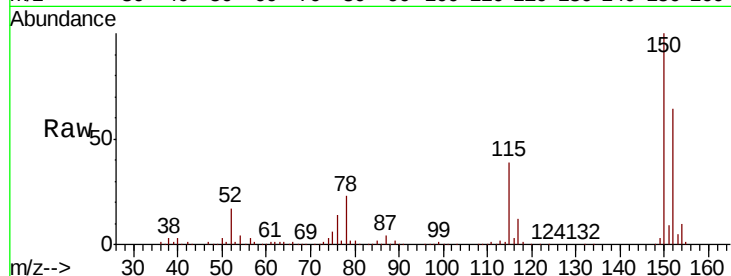
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.65 min Scan# 775  
 Delta R.T. -0.01 min  
 Lab File: BF115024.D  
 Acq: 14 Jun 2019 1:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-EF-01-012-ABCD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 127.4 | 191.0 |
| 115     | 61.3  | 46.0  | 69.0  |

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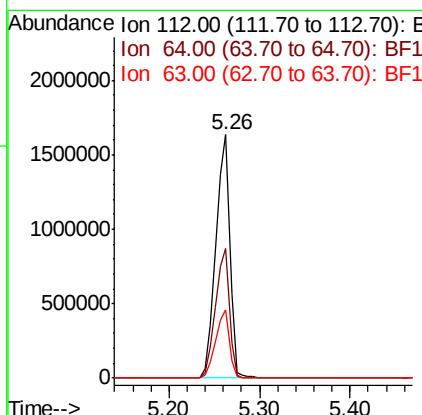
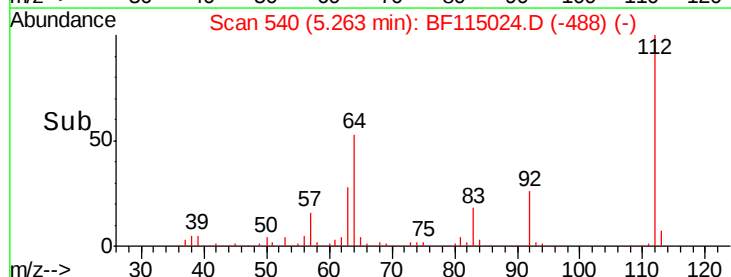
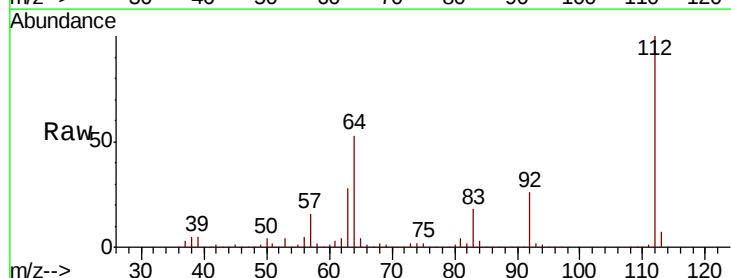
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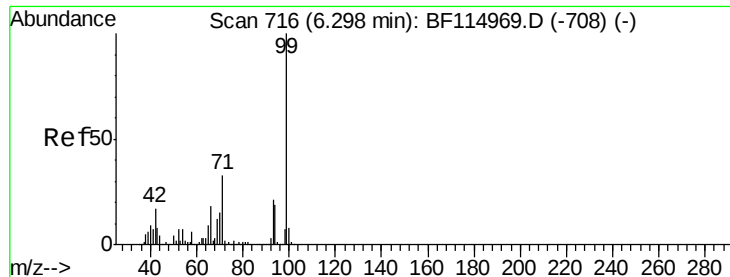


#5

2-Fluorophenol  
 Concen: 96.460 ng  
 RT: 5.26 min Scan# 540  
 Delta R.T. 0.01 min  
 Lab File: BF115024.D  
 Acq: 14 Jun 2019 1:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.0  | 41.6  | 62.4  |
| 63      | 28.1  | 20.9  | 31.3  |





#7

Phenol-d6

Concen: 102.587 ng

RT: 6.29 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

Instrument :

BNA\_F

ClientSampleId :

FK-EF-01-012-ABCD

Tot Ion: 99 Resp: 2246638

Ion Ratio Lower Upper

99 100

42 16.6 13.4 20.2

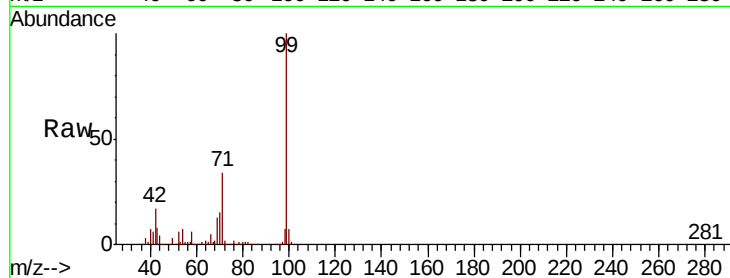
71 34.4 26.4 39.6

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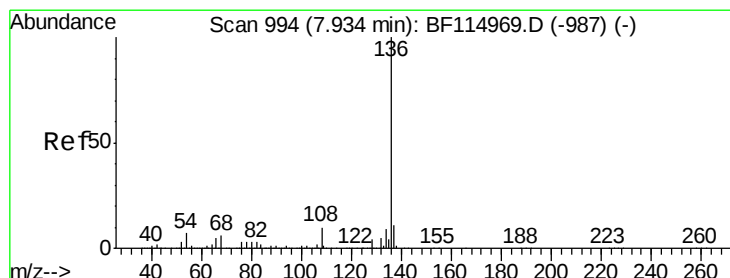
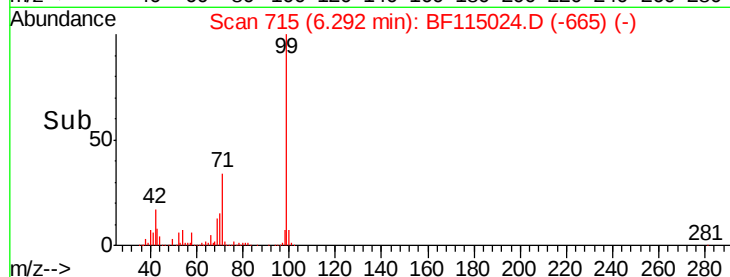
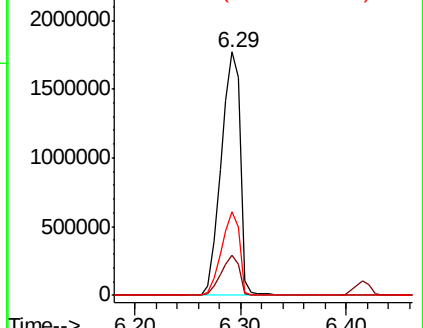
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 7.93 min Scan# 993

Delta R.T. -0.01 min

Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

Tgt Ion: 136 Resp: 1155168

Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 6.1 5.4 8.0

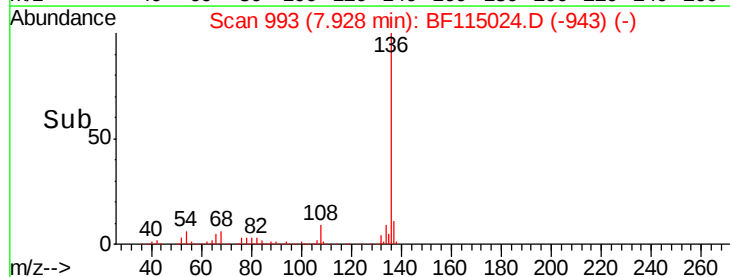
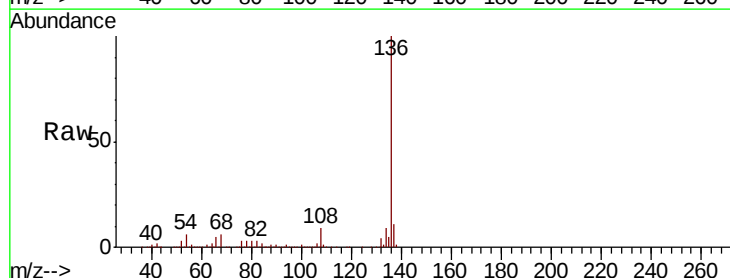
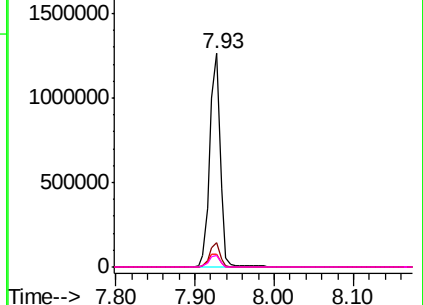
68 5.5 4.6 7.0

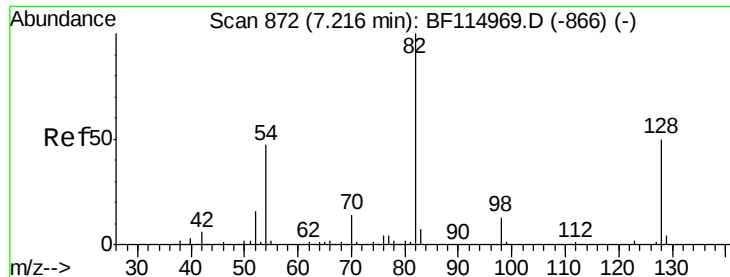
Abundance Ion 136.00 (135.70 to 136.70): E

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





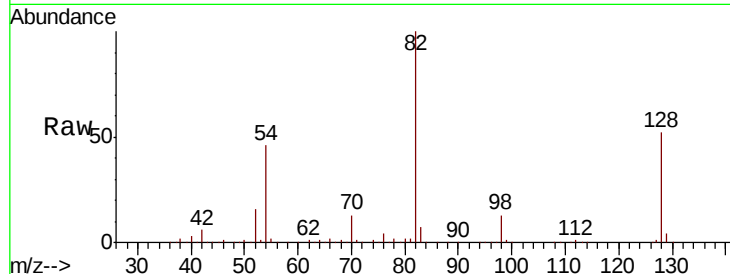
#23  
Nitrobenzene-d5  
Concen: 71.067 ng  
RT: 7.21 min Scan# 871  
Delta R.T. -0.01 min  
Lab File: BF115024.D  
Acq: 14 Jun 2019 1:23

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-012-ABCD

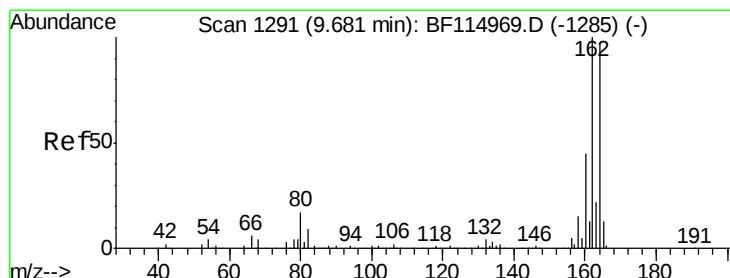
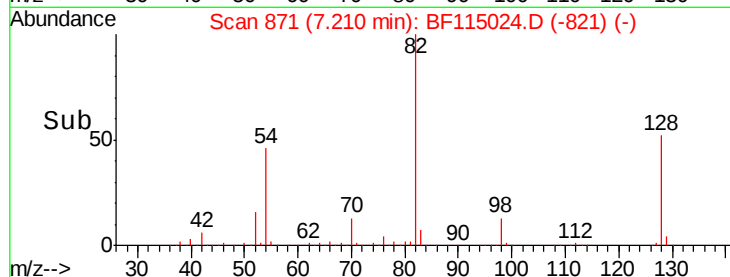
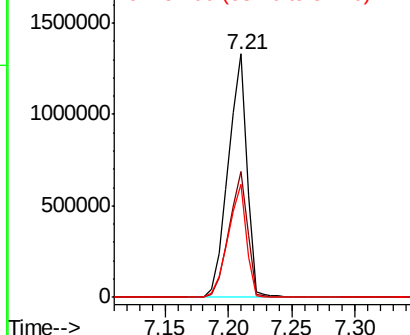
| Tot Ion   | 82   | Resp  | 1363866 |
|-----------|------|-------|---------|
| Ion Ratio | 100  | Lower | Upper   |
| 82        | 100  |       |         |
| 128       | 51.9 | 39.9  | 59.9    |
| 54        | 46.4 | 37.3  | 55.9    |

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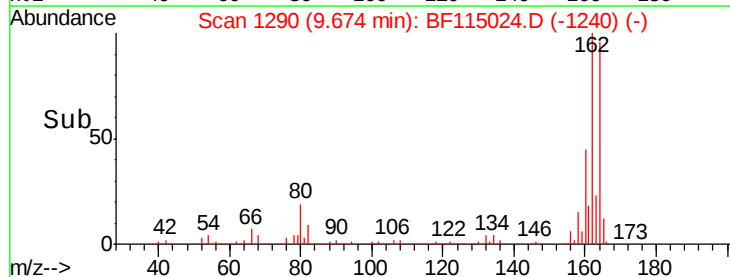
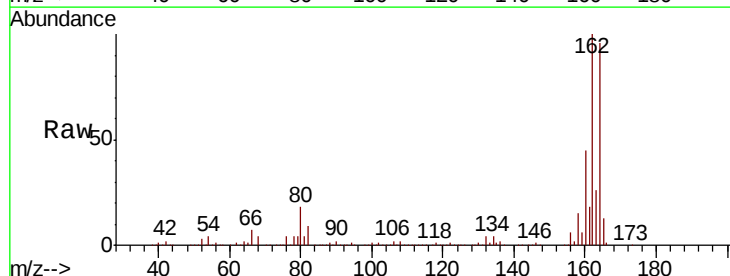
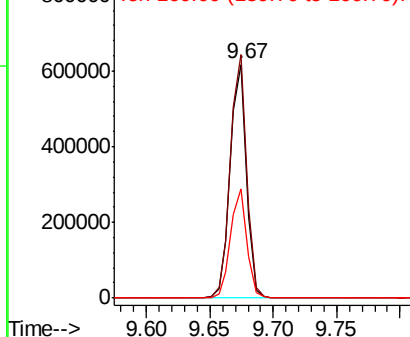
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

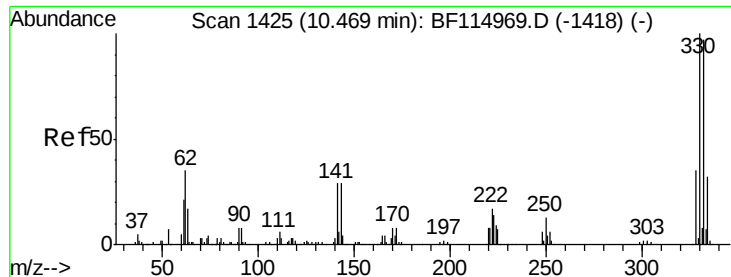


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.67 min Scan# 1290  
Delta R.T. -0.01 min  
Lab File: BF115024.D  
Acq: 14 Jun 2019 1:23

| Tgt Ion   | 164   | Resp  | 544030 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 164       | 100   |       |        |
| 162       | 104.1 | 82.6  | 124.0  |
| 160       | 46.5  | 36.9  | 55.3   |

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: 92.297 ng

RT: 10.46 min Scan# 1423

Delta R.T. -0.01 min

Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

Instrument :

BNA\_F

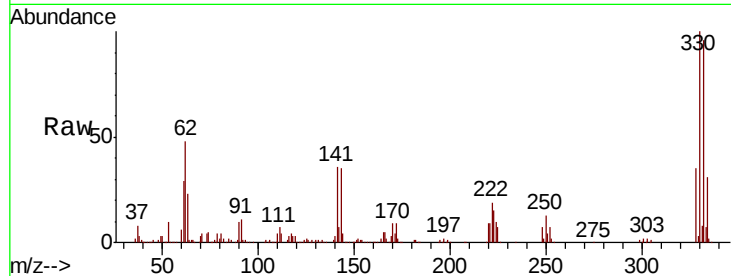
ClientSampleId :

FK-EF-01-012-ABCD

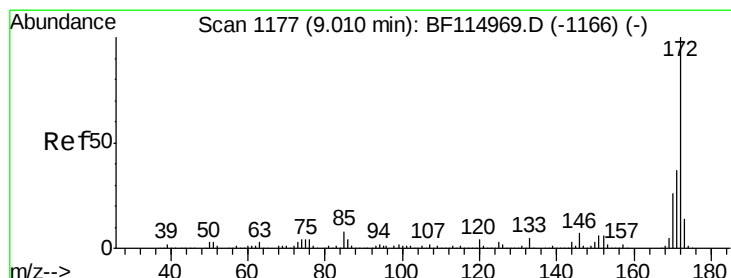
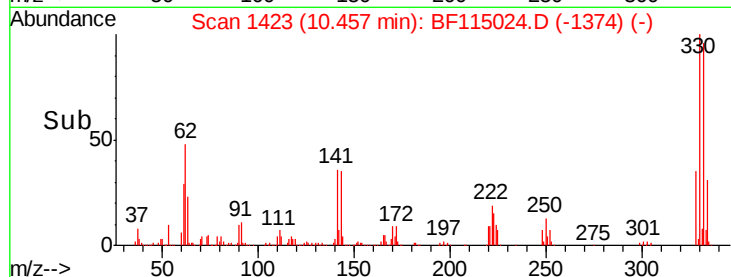
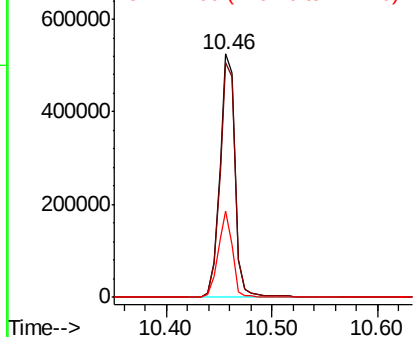
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 537706 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.9  | 77.6  | 116.4  |
| 141       | 33.0  | 27.2  | 40.8   |

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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: 77.569 ng

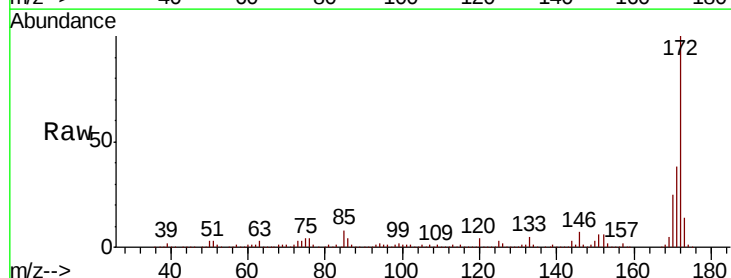
RT: 9.00 min Scan# 1176

Delta R.T. -0.01 min

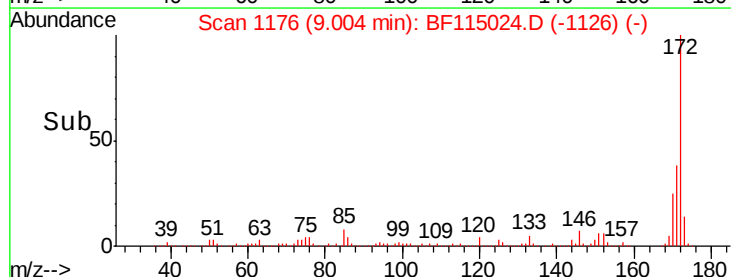
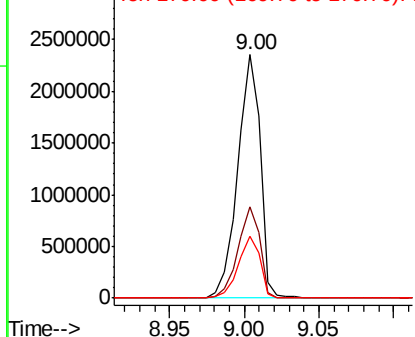
Lab File: BF115024.D

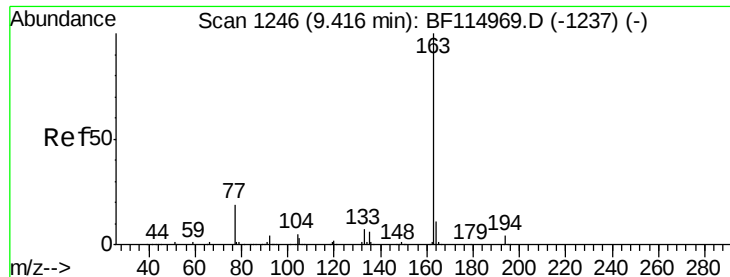
Acq: 14 Jun 2019 1:23

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 172   | Resp: | 2489894 |
| Ion Ratio | Lower | Upper |         |
| 172       | 100   |       |         |
| 171       | 37.6  | 29.8  | 44.6    |
| 170       | 25.3  | 20.6  | 31.0    |



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: 13.486 ng

RT: 9.40 min Scan# 1243

Delta R.T. -0.02 min

Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

Instrument :

BNA\_F

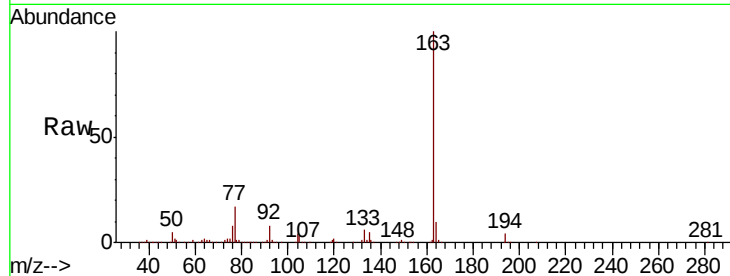
ClientSampleId :

FK-EF-01-012-ABCD

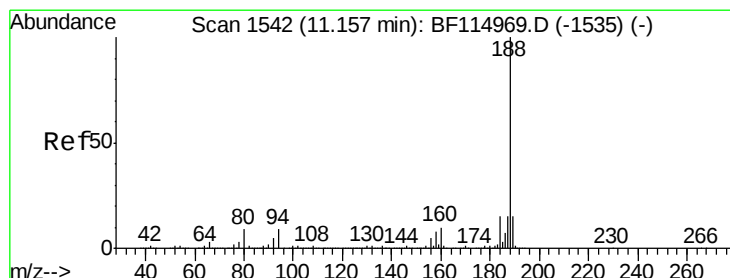
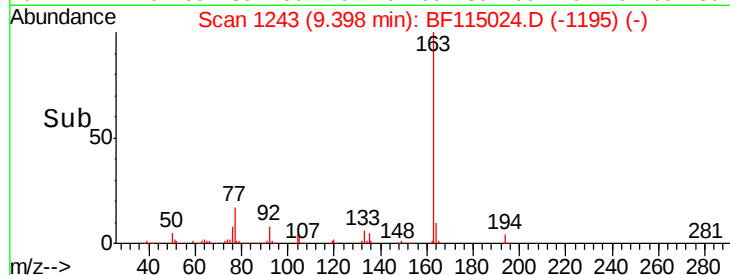
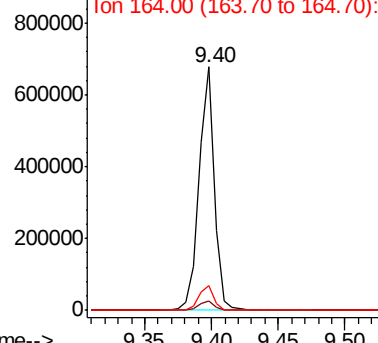
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 551755 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.7   | 3.3   | 4.9    |
| 164       | 10.0  | 8.6   | 12.8   |

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Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

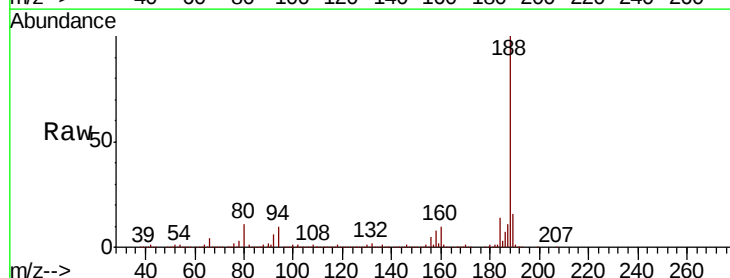
RT: 11.14 min Scan# 1540

Delta R.T. -0.01 min

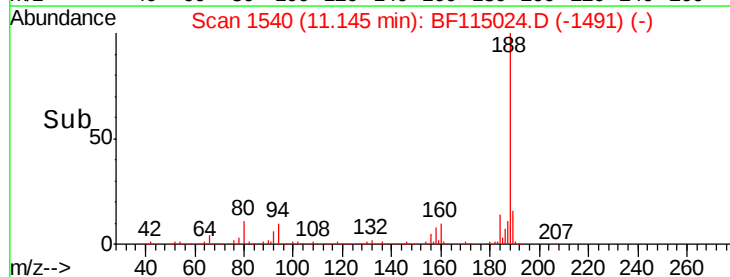
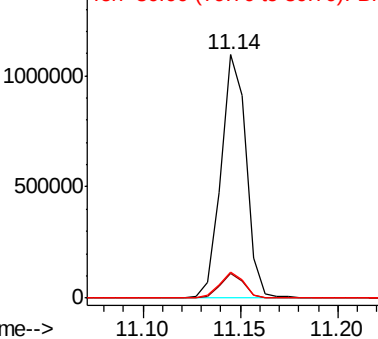
Lab File: BF115024.D

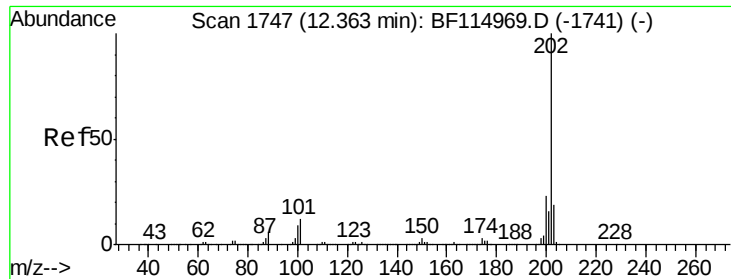
Acq: 14 Jun 2019 1:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 980673 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.3  | 7.2   | 10.8   |
| 80        | 10.9  | 7.4   | 11.2   |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1





#75

Fluoranthene

Concen: 2.924 ng

RT: 12.35 min Scan# 1745

Delta R.T. -0.01 min

Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

Instrument :

BNA\_F

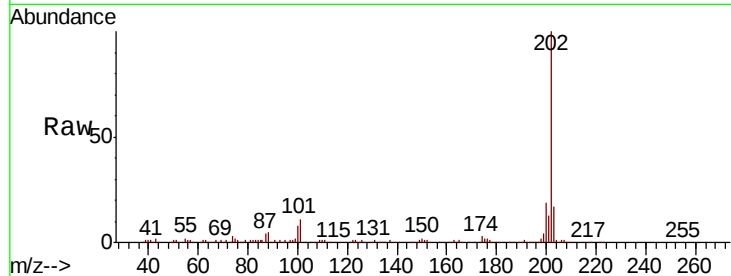
ClientSampleId :

FK-EF-01-012-ABCD

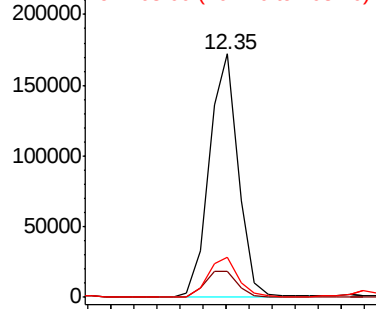
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 202     | 100  |       | 151403 |       |       |
| 101     | 10.8 | 0.0   | 32.4   |       |       |
| 203     | 16.7 | 0.0   | 38.6   |       |       |

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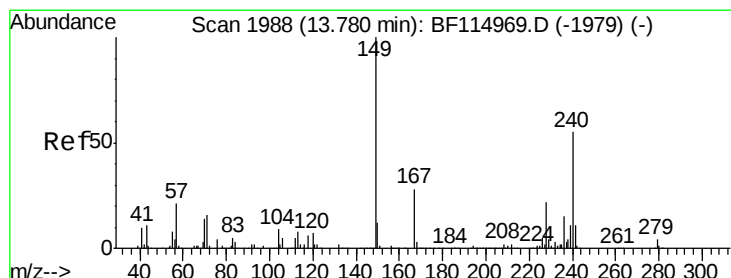
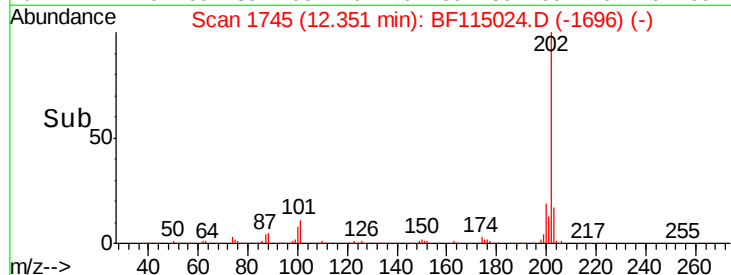
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6/14/2019 8:47:28 AM



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



Time-->



#76

Chrysene-d12

Concen: 20.000 ng

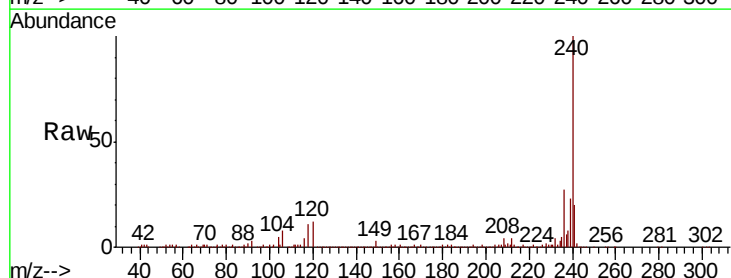
RT: 13.77 min Scan# 1986

Delta R.T. -0.01 min

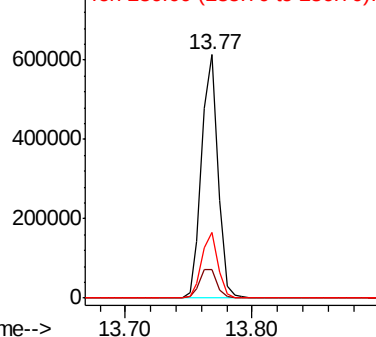
Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

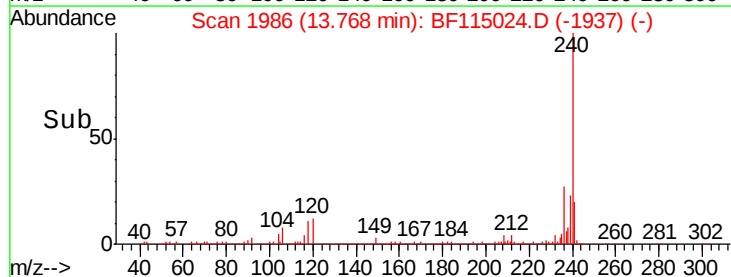
| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 240     | 100  |       | 546526 |       |       |
| 120     | 12.0 | 10.0  | 15.0   |       |       |
| 236     | 26.8 | 21.6  | 32.4   |       |       |

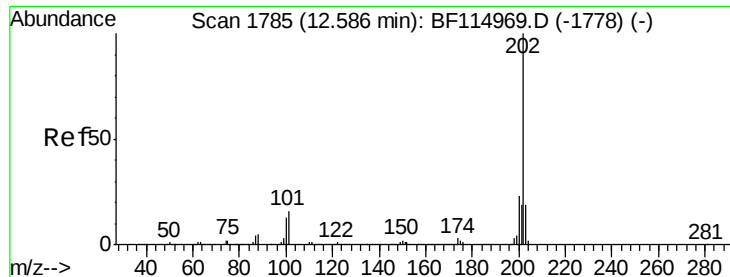


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



Time-->





#78

Pvrene

Concen: 2.728 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

Instrument :

BNA\_F

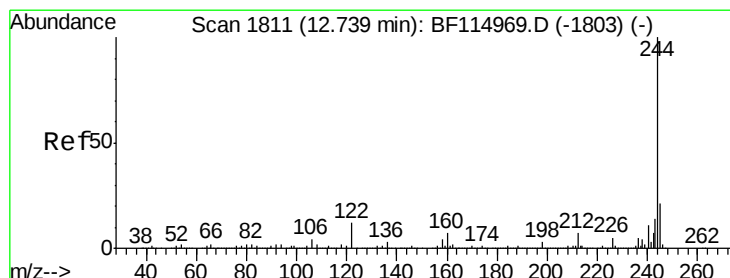
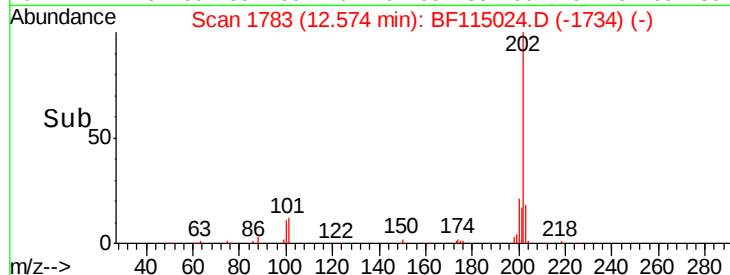
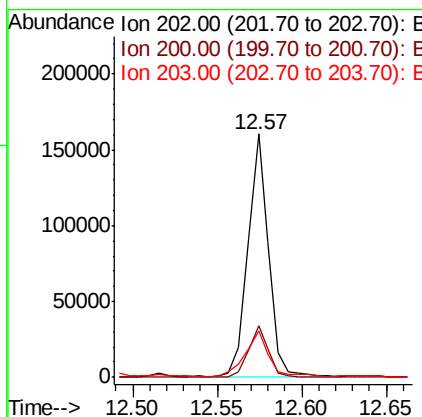
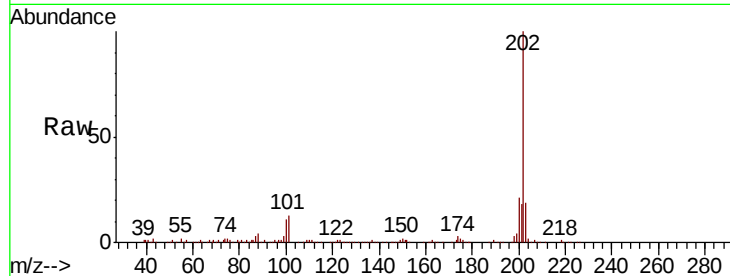
ClientSampleId :

FK-EF-01-012-ABCD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 135834 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.2  | 18.4  | 27.6   |
| 203       | 19.0  | 14.9  | 22.3   |

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#79

Terphenyl-d14

Concen: 72.699 ng

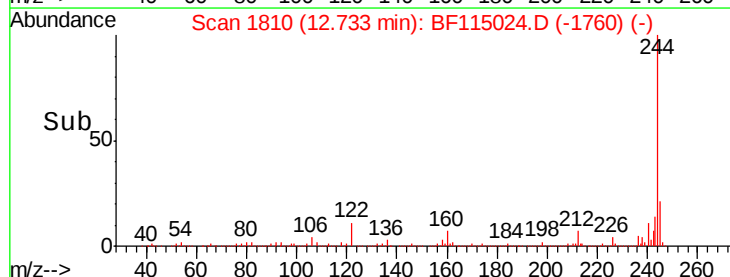
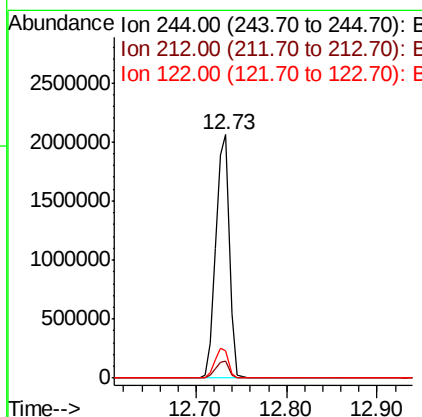
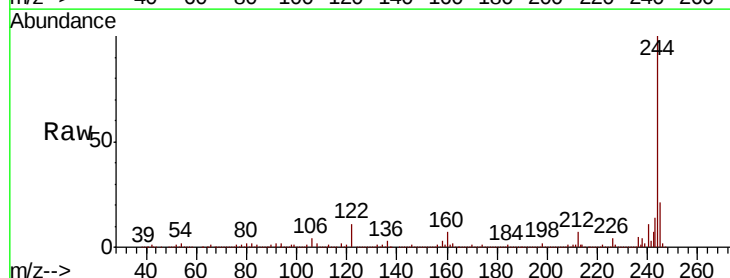
RT: 12.73 min Scan# 1810

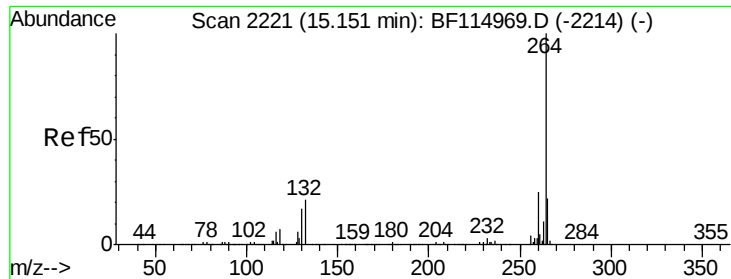
Delta R.T. -0.01 min

Lab File: BF115024.D

Acq: 14 Jun 2019 1:23

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 2112413 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.0   | 5.8   | 8.8     |
| 122       | 11.2  | 9.4   | 14.0    |





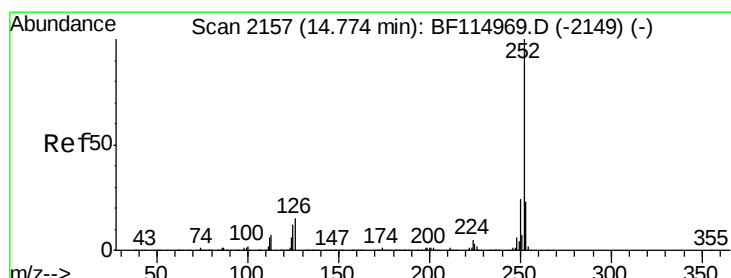
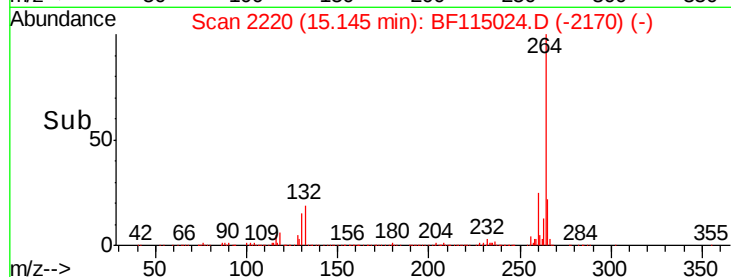
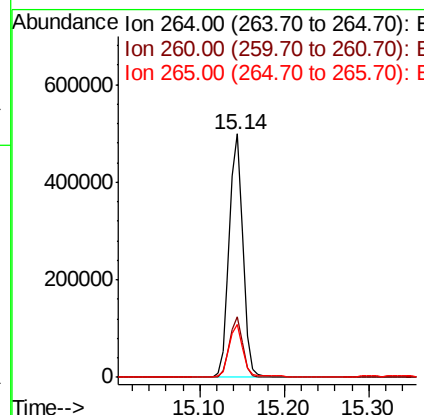
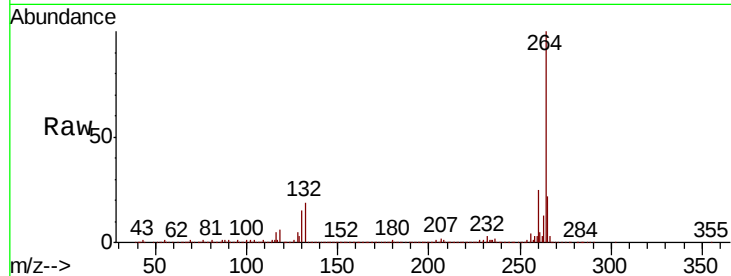
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.14 min Scan# 2220  
Delta R.T. -0.01 min  
Lab File: BF115024.D  
Acq: 14 Jun 2019 1:23

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-012-ABCD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.9  | 29.9  |
| 265     | 21.6  | 17.6  | 26.4  |

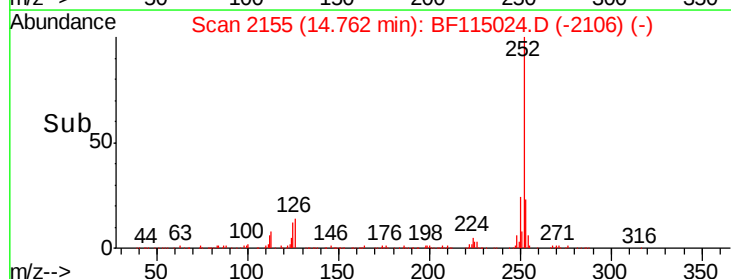
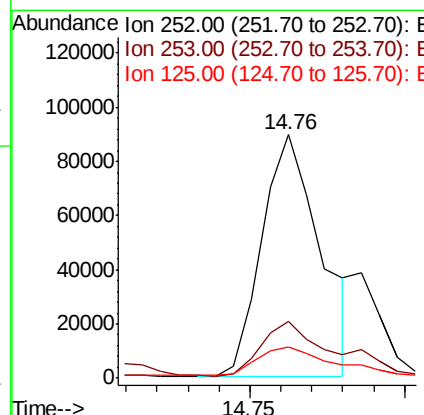
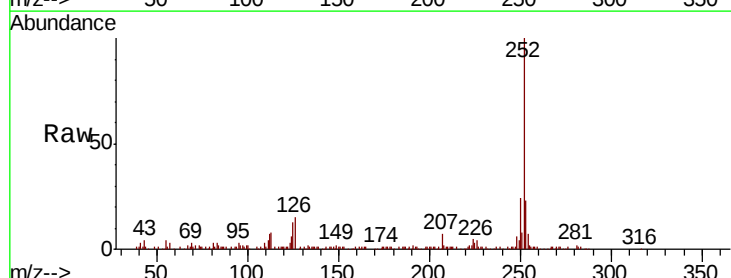
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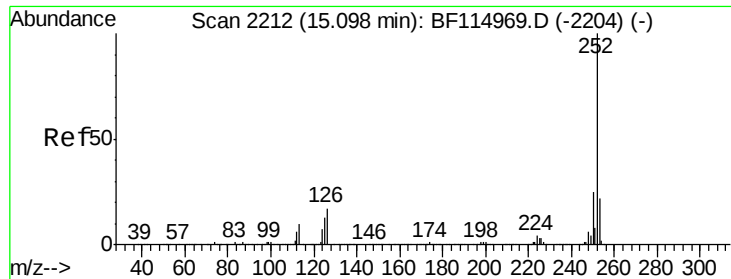
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#88  
Benzo(b)fluoranthene  
Concen: 3.149 ng m  
RT: 14.76 min Scan# 2155  
Delta R.T. -0.01 min  
Lab File: BF115024.D  
Acq: 14 Jun 2019 1:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 18.1  | 27.1  |
| 125     | 12.7  | 9.4   | 14.0  |





#90  
Benzo(a)pyrene  
Concen: 2.025 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.01 min  
Lab File: BF115024.D  
Acq: 14 Jun 2019 1:23

Instrument :  
BNA\_F  
ClientSampleId :  
FK-EF-01-012-ABCD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.8  | 26.8  |
| 125     | 11.5  | 10.7  | 16.1  |

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