

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\  
 Data File : BF110113.D  
 Acq On : 24 Oct 2018 14:25  
 Operator : JU/SJ  
 Sample : J5610-07 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4(0-2)

Manual Integrations  
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 10/25/2018 12:41:44 PM

Quant Time: Oct 25 09:49:42 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 23 15:06:18 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.97  | 152  | 145161   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.25  | 136  | 549457   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10        | 10.01 | 164  | 216085   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.50 | 188  | 367437   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12            | 14.14 | 240  | 319441   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12            | 15.67 | 264  | 233932   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.57  | 112  | 186977   | 20.98 | ng    | -0.02    |
| 7) Phenol-d6                | 6.57  | 99   | 232910   | 20.43 | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 124634   | 13.45 | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol    | 10.80 | 330  | 36722    | 17.16 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.32  | 172  | 224993   | 16.35 | ng    | -0.02    |
| 79) Terphenyl-d14           | 13.08 | 244  | 189812   | 12.36 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 9.72  | 163  | 34473    | 2.161 | ng    | 99       |
| 75) Fluoranthene            | 12.72 | 202  | 101090   | 5.181 | ng    | 98       |
| 78) Pyrene                  | 12.94 | 202  | 107816   | 4.708 | ng    | 96       |
| 81) Benzo(a)anthracene      | 14.14 | 228  | 55519    | 2.931 | ng    | # 93     |
| 83) Chrysene                | 14.17 | 228  | 52041m   | 2.892 | ng    |          |
| 88) Benzo(b)fluoranthene    | 15.22 | 252  | 58103m   | 4.301 | ng    |          |
| 90) Benzo(a)pyrene          | 15.60 | 252  | 34564    | 2.781 | ng    | # 84     |

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

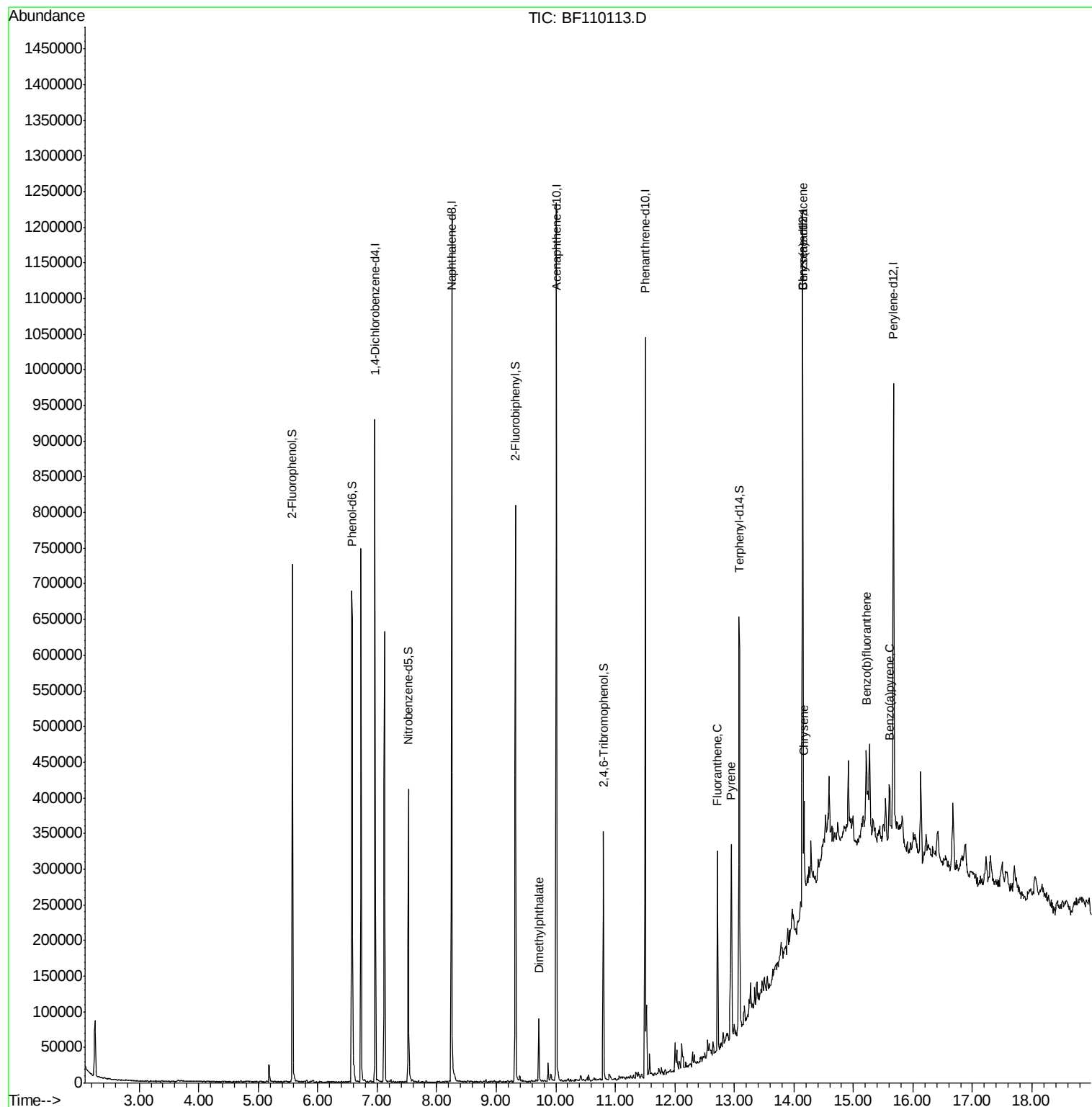
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\  
Data File : BF110113.D  
Acq On : 24 Oct 2018 14:25  
Operator : JU/SJ  
Sample : J5610-07 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

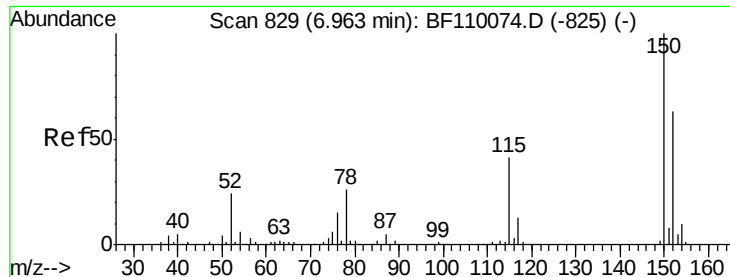
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(0-2)

Quant Time: Oct 25 09:49:42 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 23 15:06:18 2018  
Response via : Initial Calibration

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#1

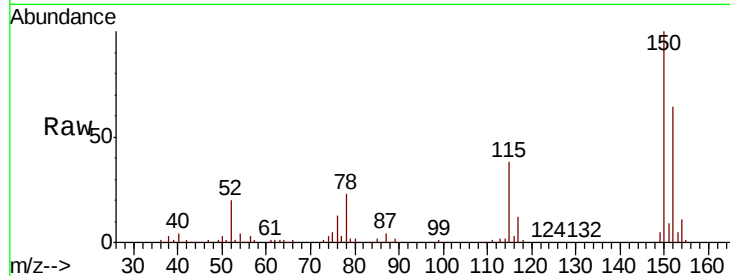
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 830  
Delta R.T. -0.01 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 122.7 | 184.1 |
| 115     | 59.1  | 49.1  | 73.7  |

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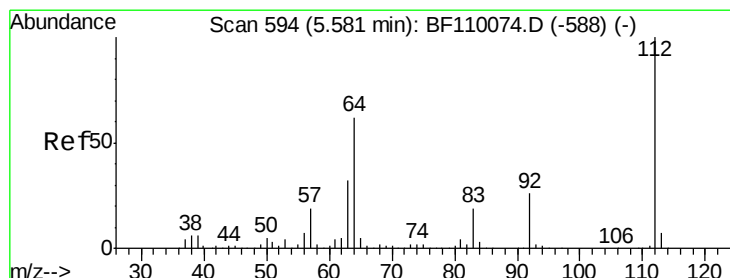
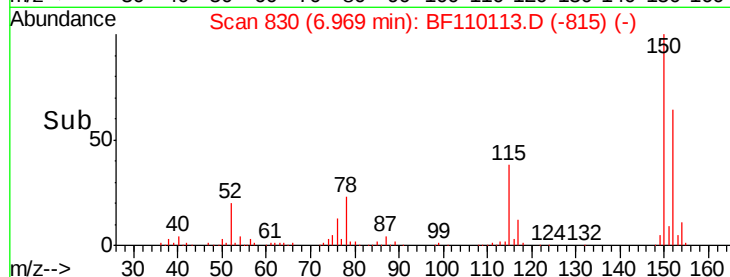
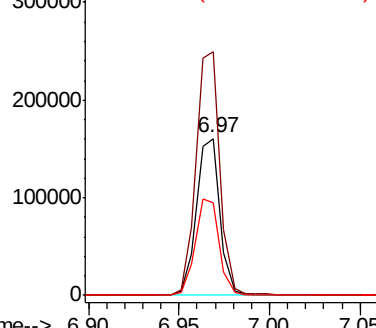


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

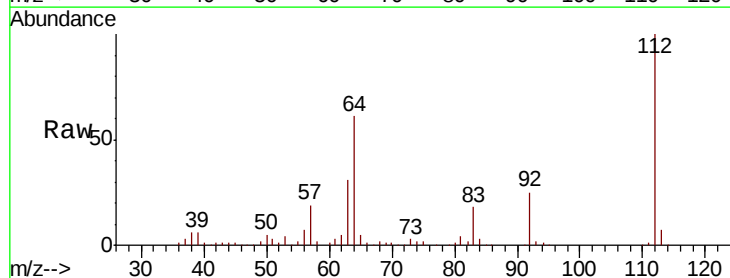
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 20.976 ng  
RT: 5.57 min Scan# 593  
Delta R.T. -0.02 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.1  | 44.1  | 66.1  |
| 63      | 30.7  | 23.7  | 35.5  |

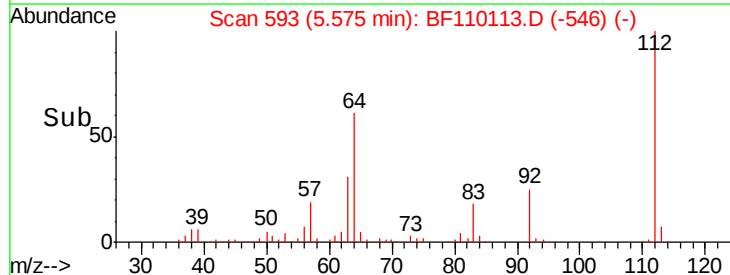
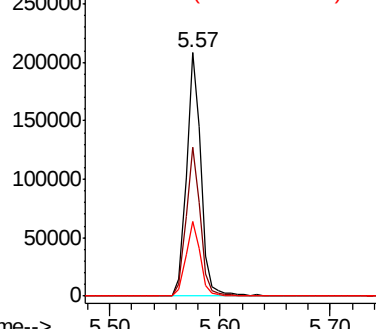


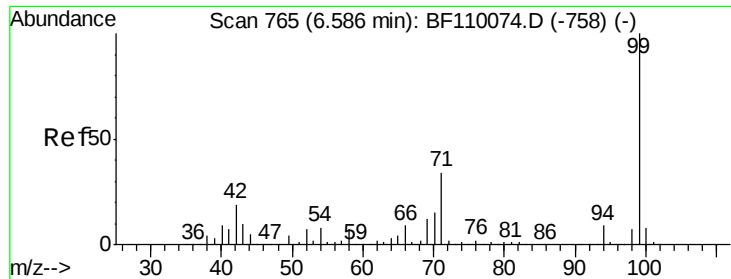
Abundance

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: 20.428 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.03 min

Lab File: BF110113.D

Acq: 24 Oct 2018 14:25

Instrument :

BNA\_F

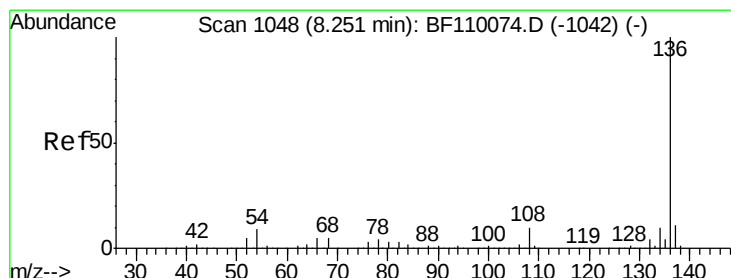
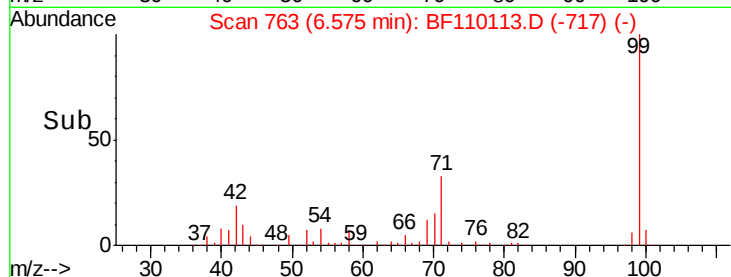
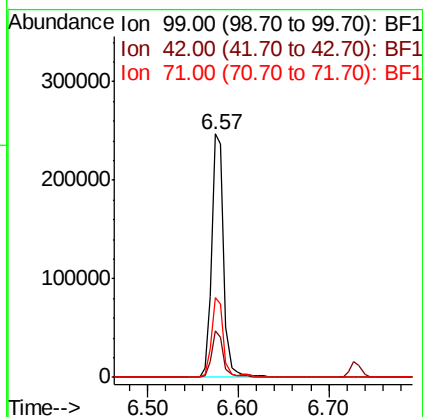
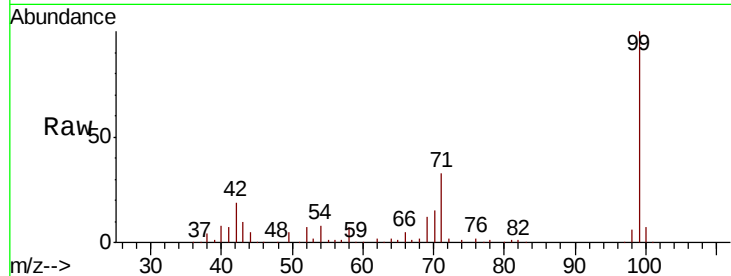
ClientSampleId :

SB-4(0-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 232910 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.1  | 15.8  | 23.6   |
| 71        | 32.7  | 28.0  | 42.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

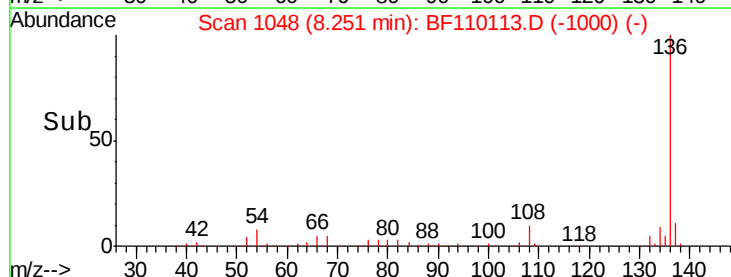
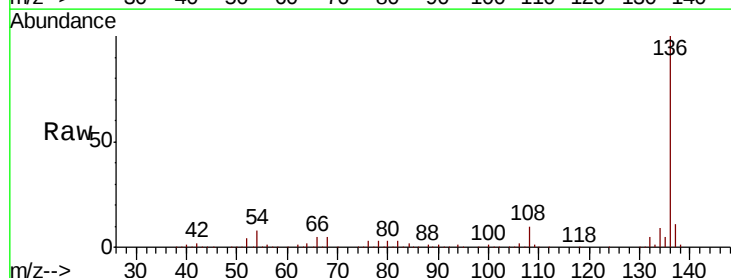
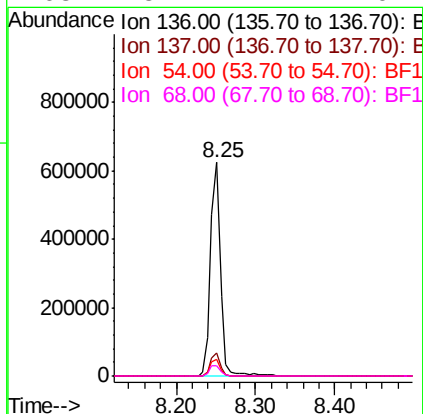
RT: 8.25 min Scan# 1048

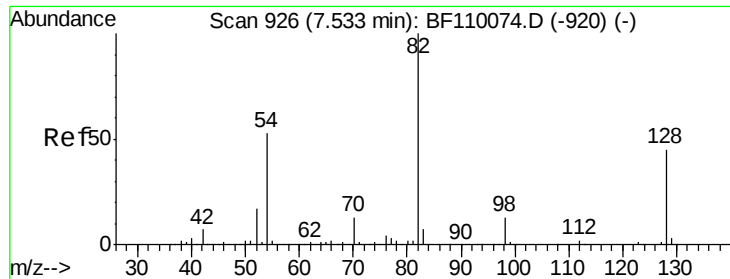
Delta R.T. -0.02 min

Lab File: BF110113.D

Acq: 24 Oct 2018 14:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 549457 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 8.8   | 13.2   |
| 54        | 7.6   | 5.4   | 8.2    |
| 68        | 5.1   | 4.2   | 6.2    |





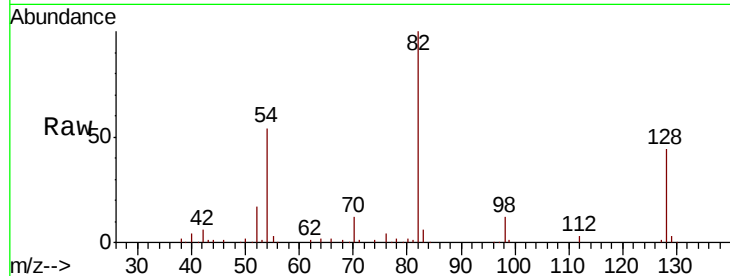
#23  
Nitrobenzene-d5  
Concen: 13.454 ng  
RT: 7.52 min Scan# 924  
Delta R.T. -0.03 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(0-2)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 43.7  | 34.2 | 51.2  |       |
| 54      | 53.7  | 38.6 | 58.0  |       |

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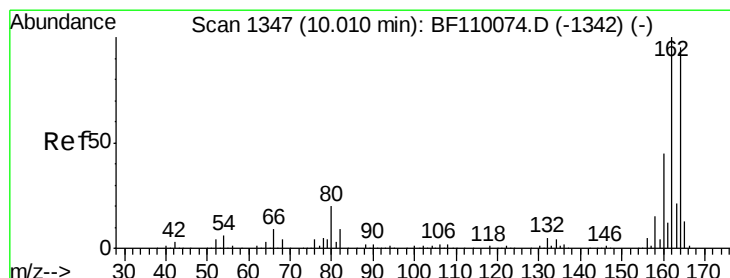
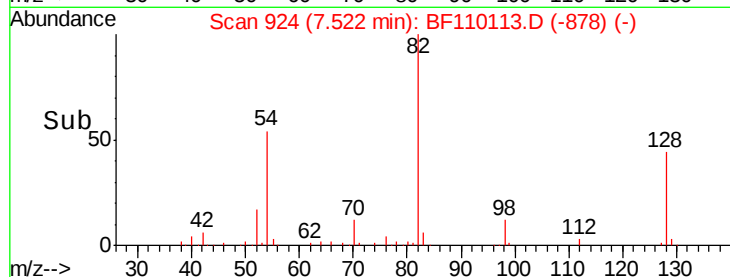
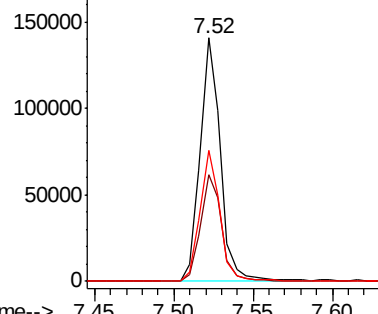


Abundance

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



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. -0.02 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

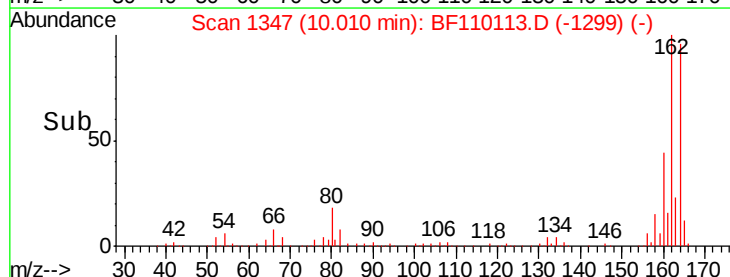
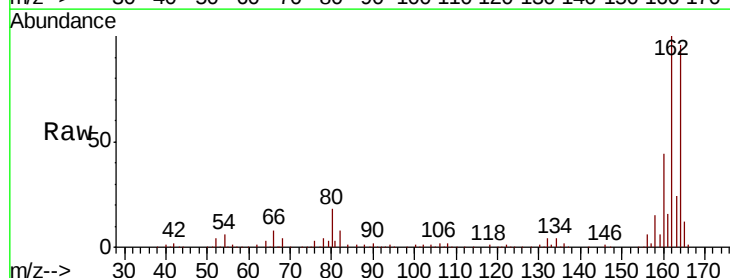
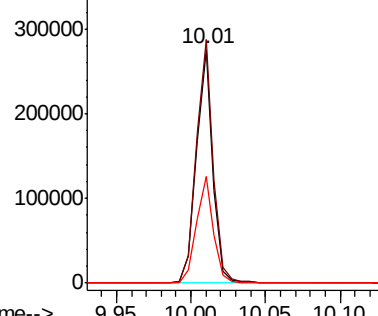
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 104.3 | 83.0 | 124.6 |       |
| 160     | 45.9  | 37.0 | 55.6  |       |

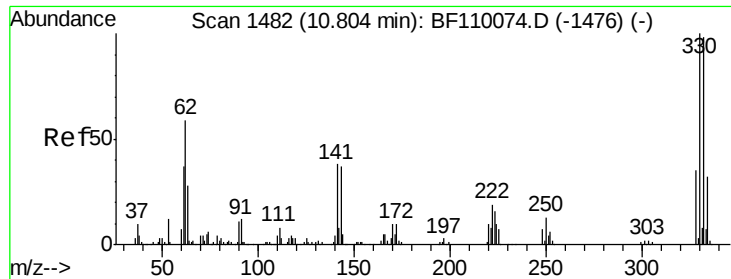
Abundance

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





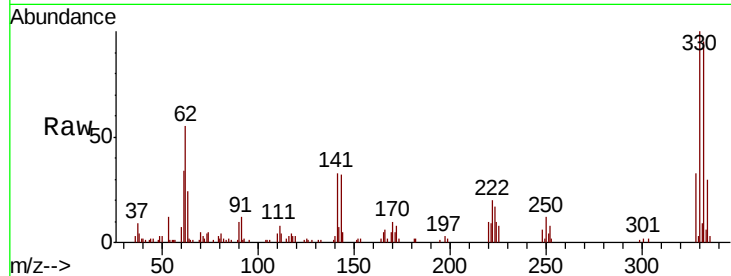
#42  
 2,4,6-Tribromophenol  
 Concen: 17.156 ng  
 RT: 10.80 min Scan# 1481  
 Delta R.T. -0.02 min  
 Lab File: BF110113.D  
 Acq: 24 Oct 2018 14:25

Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-4(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 92.7  | 77.1  | 115.7 |
| 141     | 35.3  | 27.0  | 40.4  |

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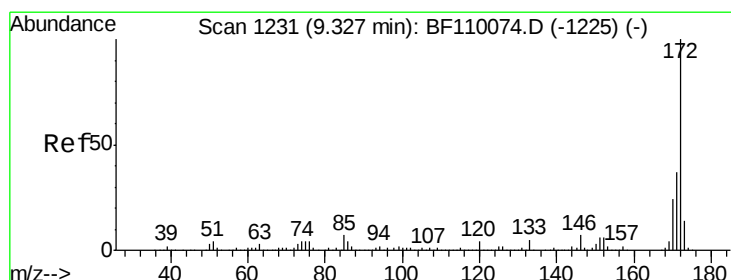
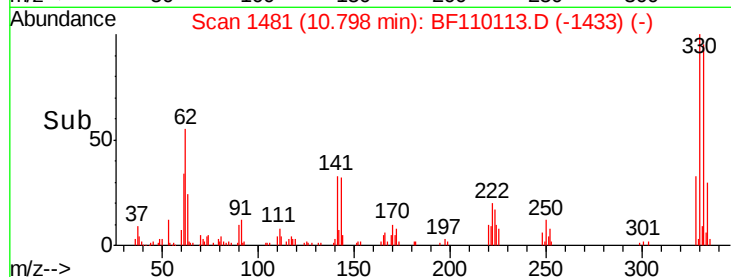
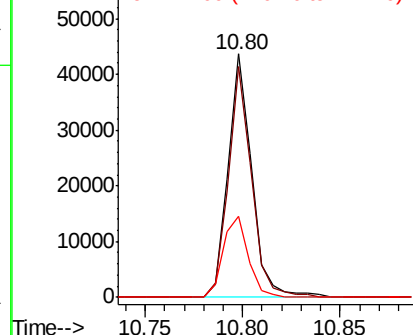


Abundance

Ion 329.80 (329.50 to 330.50): E

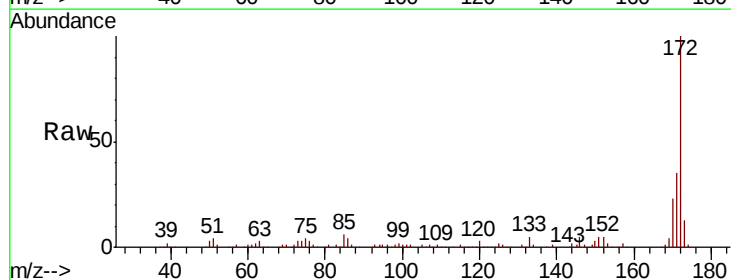
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 16.350 ng  
 RT: 9.32 min Scan# 1230  
 Delta R.T. -0.02 min  
 Lab File: BF110113.D  
 Acq: 24 Oct 2018 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 28.6  | 43.0  |
| 170     | 23.0  | 19.7  | 29.5  |

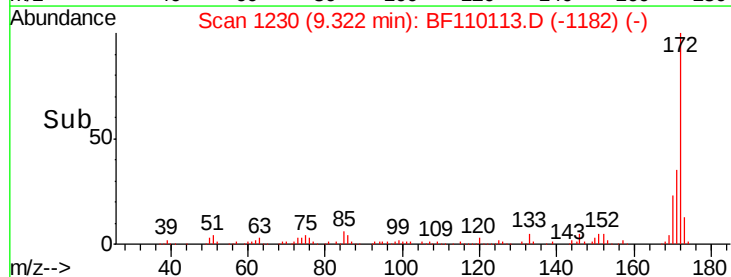
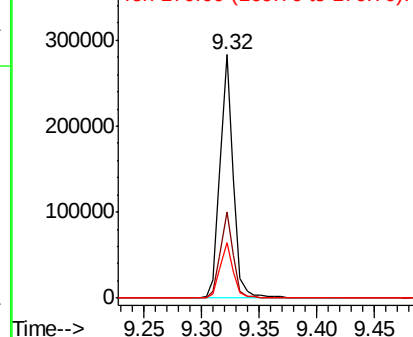


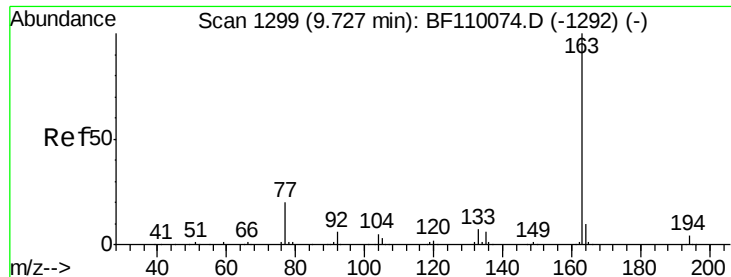
Abundance

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: 2.161 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF110113.D

Acq: 24 Oct 2018 14:25

Instrument :

BNA\_F

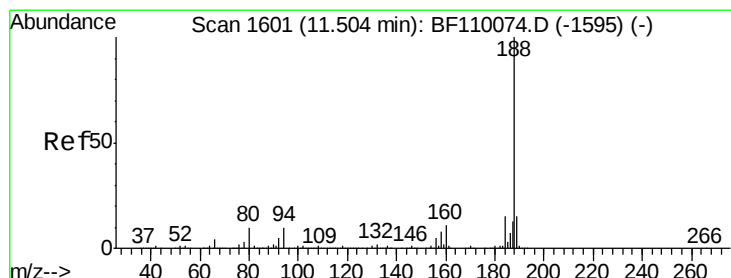
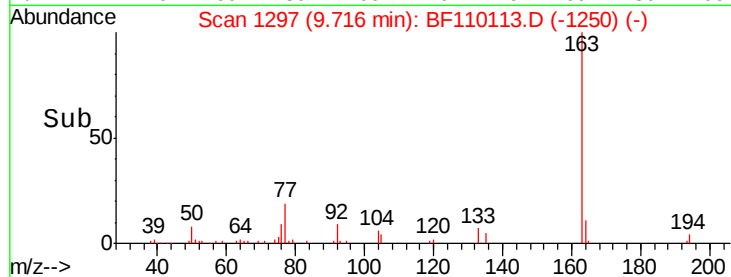
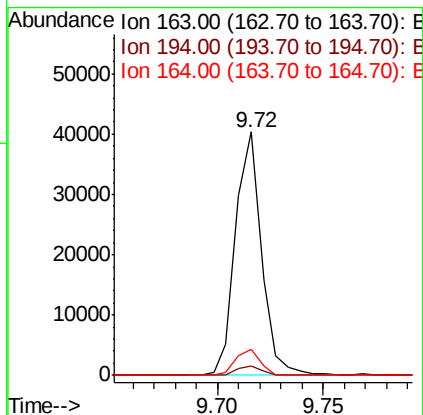
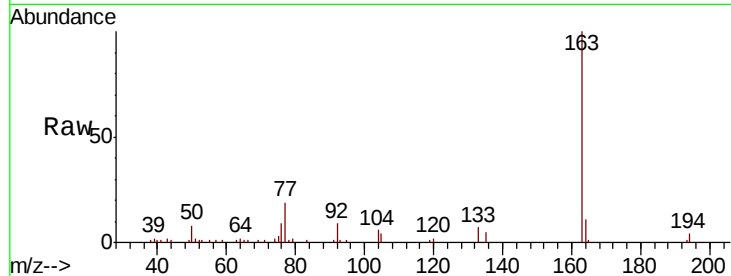
ClientSampled :

SB-4(0-2)

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 34473 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.1   | 3.2   | 4.8   |
| 164       | 10.7  | 8.1   | 12.1  |

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#64

Phenanthrene-d10

Concen: 20.000 ng

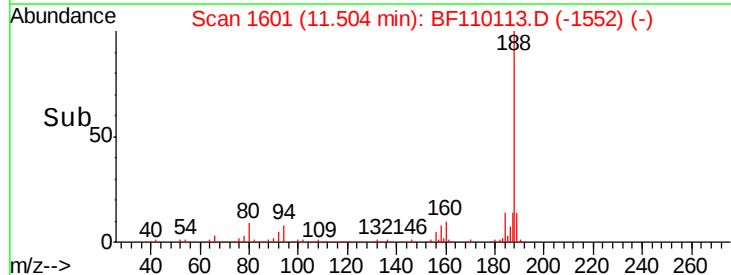
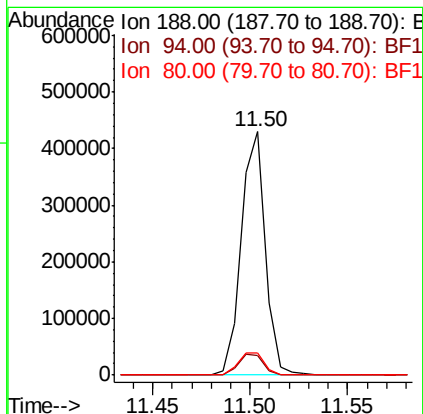
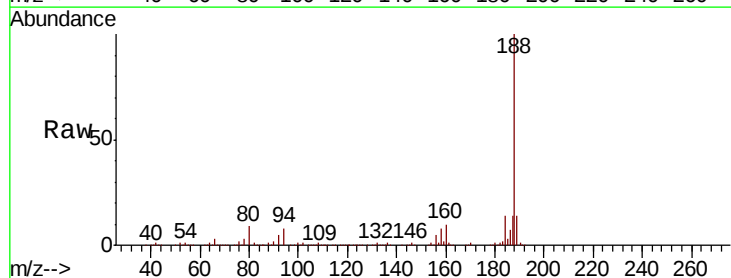
RT: 11.50 min Scan# 1601

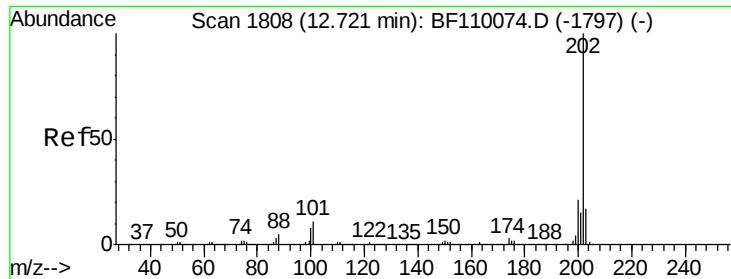
Delta R.T. -0.01 min

Lab File: BF110113.D

Acq: 24 Oct 2018 14:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 367437 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.1   | 7.2   | 10.8   |
| 80        | 9.1   | 7.9   | 11.9   |





#75

Fluoranthene

Concen: 5.181 ng

RT: 12.72 min Scan# 1807

Delta R.T. -0.02 min

Lab File: BF110113.D

Acq: 24 Oct 2018 14:25

Instrument :

BNA\_F

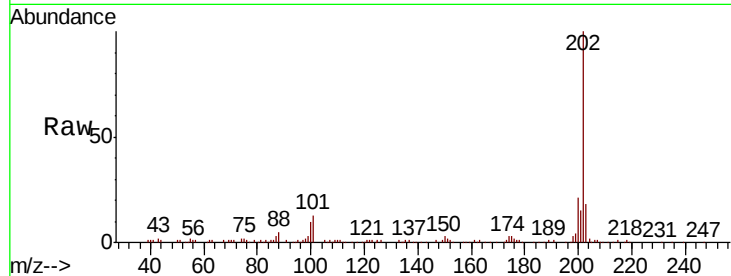
ClientSampleId :

SB-4(0-2)

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 101     | 12.6 | 0.0   | 31.4 |       |       |
| 203     | 18.2 | 0.0   | 37.7 |       |       |

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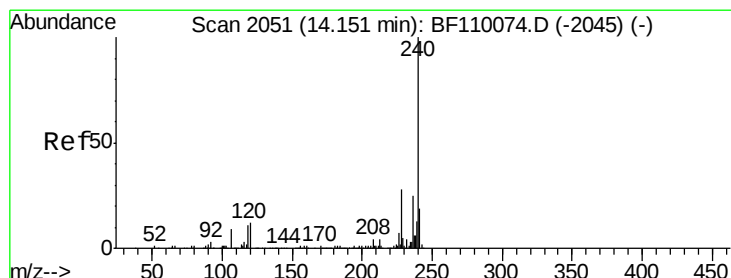
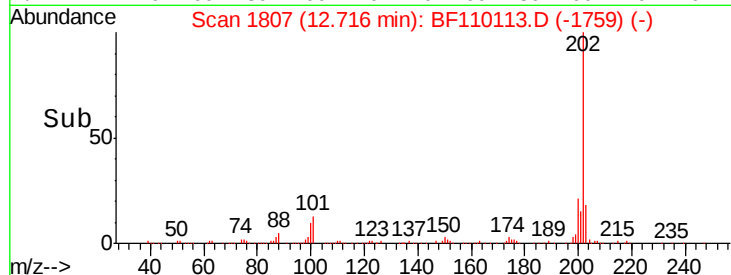
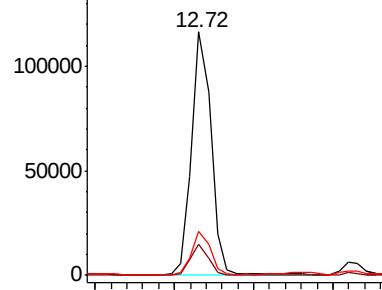


Abundance

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: 14.14 min Scan# 2050

Delta R.T. -0.02 min

Lab File: BF110113.D

Acq: 24 Oct 2018 14:25

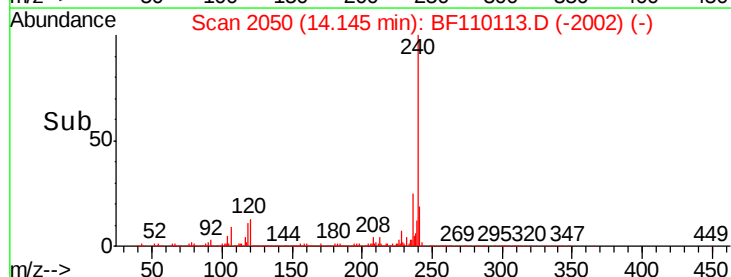
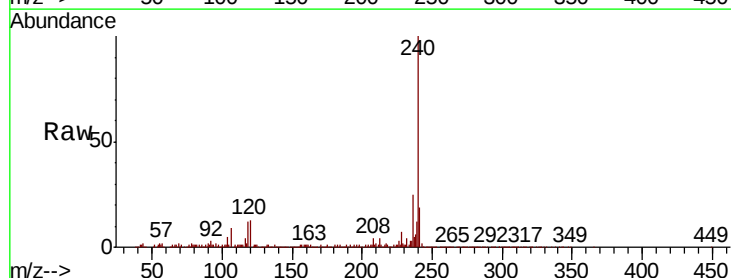
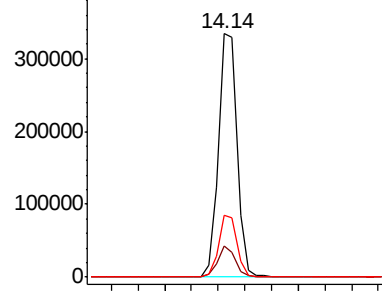
| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 240     | 100  |       |       |       |       |
| 120     | 12.8 | 8.3   | 12.5# |       |       |
| 236     | 25.2 | 21.2  | 31.8  |       |       |

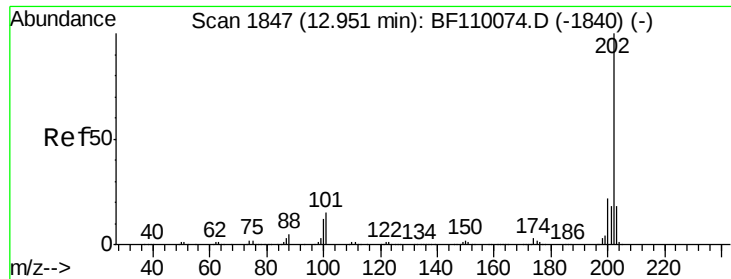
Abundance

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





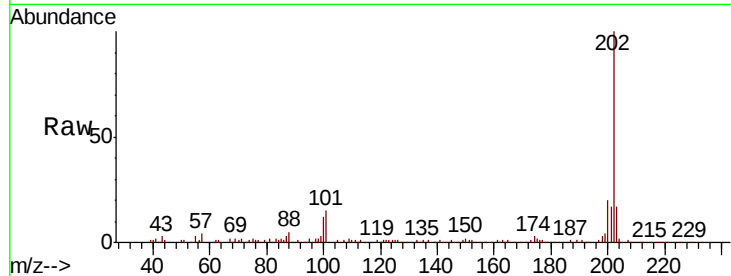
#78  
Pvrene  
Concen: 4.708 ng  
RT: 12.94 min Scan# 1846  
Delta R.T. -0.02 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(0-2)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 19.8  | 17.8       | 26.6  |
| 203     | 16.6  | 14.2       | 21.4  |

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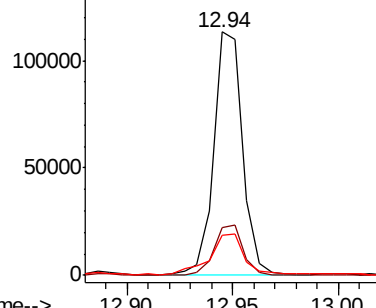


Abundance

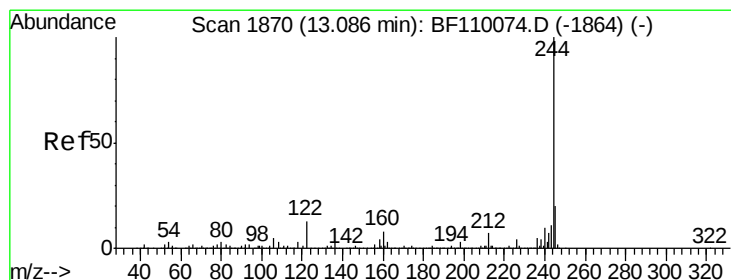
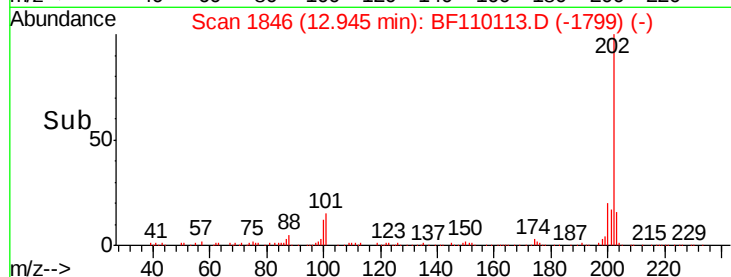
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

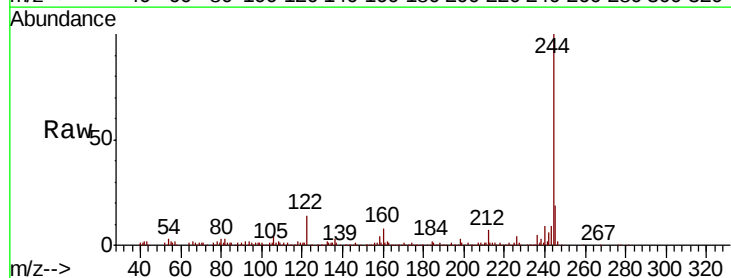


Time-->



#79  
Terphenyl-d14  
Concen: 12.358 ng  
RT: 13.08 min Scan# 1869  
Delta R.T. -0.02 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.9   | 5.8        | 8.8   |
| 122     | 13.7  | 8.7        | 13.1# |

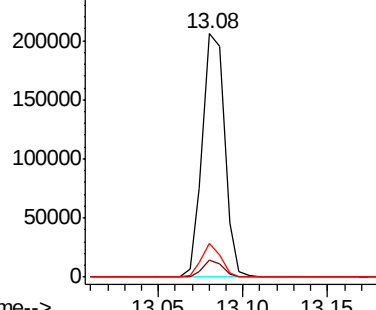


Abundance

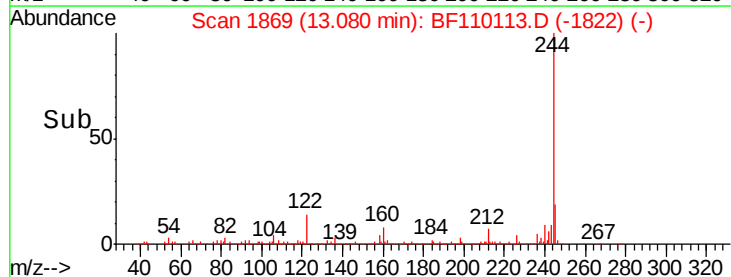
Ion 244.00 (243.70 to 244.70): E

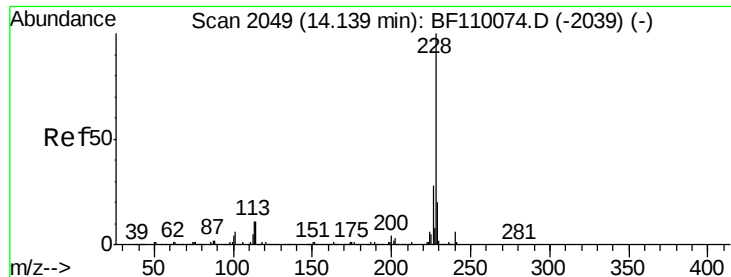
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->





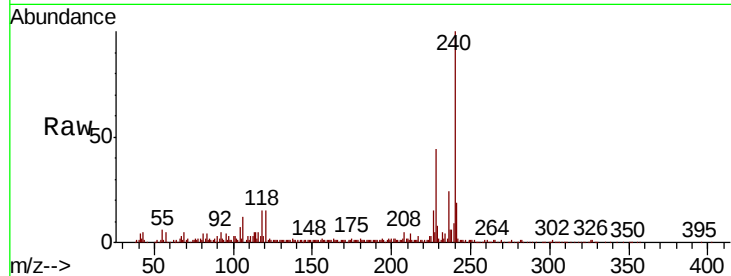
#81  
Benzo(a)anthracene  
Concen: 2.931 ng  
RT: 14.14 min Scan# 2049  
Delta R.T. -0.01 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.4  | 22.1  | 33.1# |
| 229     | 19.2  | 15.6  | 23.4  |

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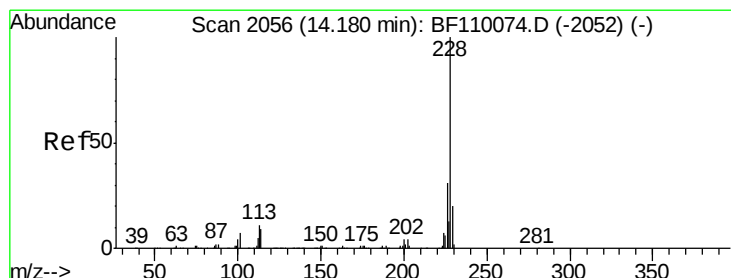
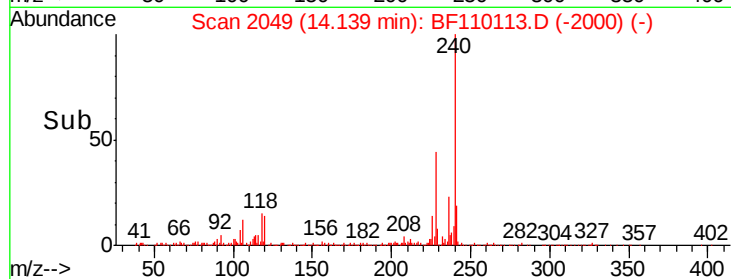
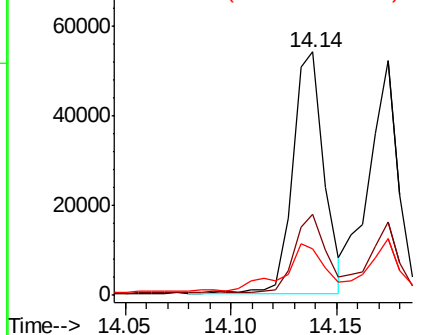


Abundance

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



#83  
Chrysene  
Concen: 2.892 ng m  
RT: 14.17 min Scan# 2055  
Delta R.T. -0.02 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

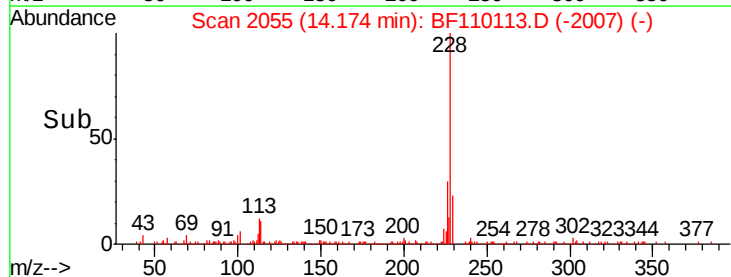
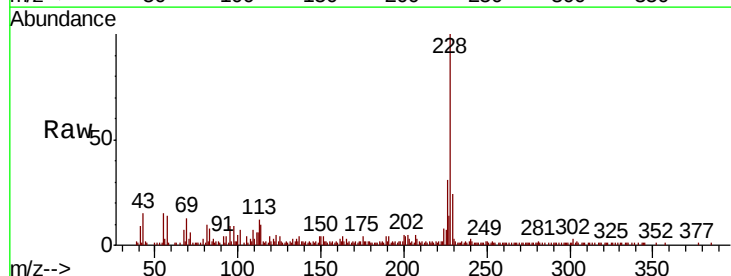
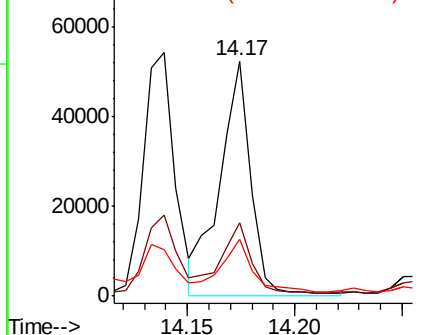
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 24.7  | 37.1  |
| 229     | 24.4  | 15.9  | 23.9# |

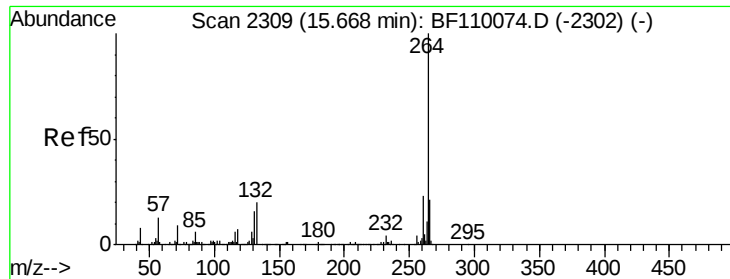
Abundance

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





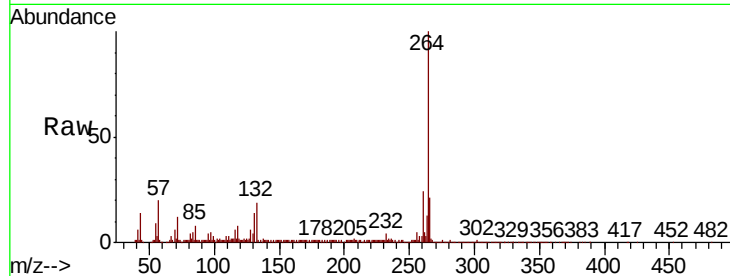
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2310  
Delta R.T. -0.02 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 18.7  | 28.1  |
| 265     | 20.8  | 16.7  | 25.1  |

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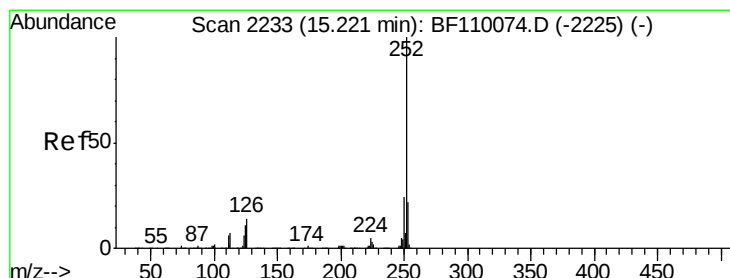
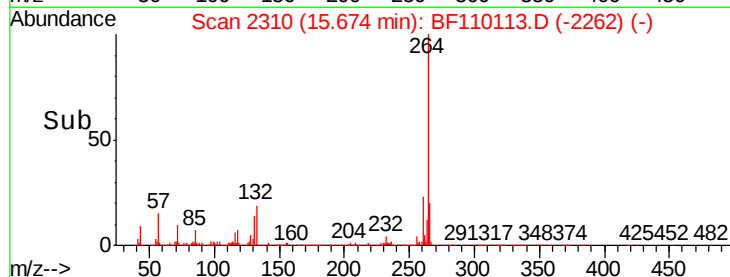
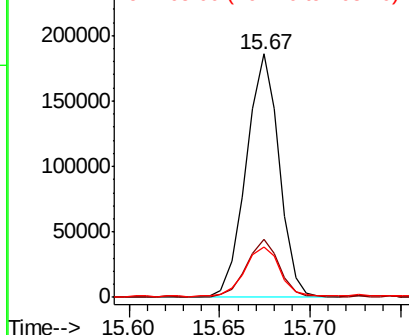


Abundance

Ion 264.00 (263.70 to 264.70): E

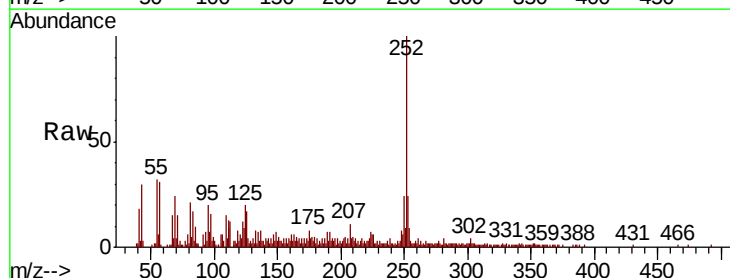
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88  
Benzo(b)fluoranthene  
Concen: 4.301 ng m  
RT: 15.22 min Scan# 2232  
Delta R.T. -0.02 min  
Lab File: BF110113.D  
Acq: 24 Oct 2018 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.2  | 25.8  |
| 125     | 19.7  | 8.2   | 12.4# |

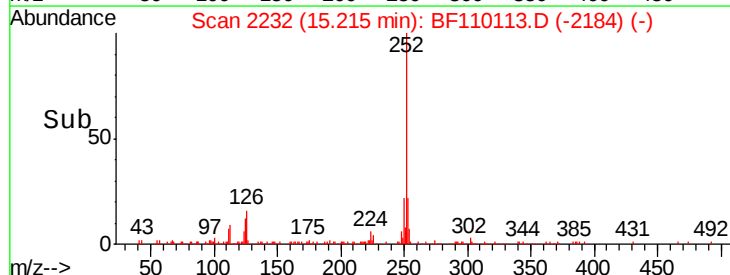
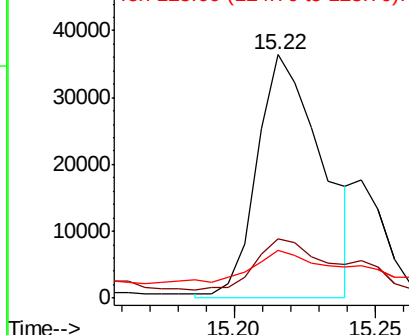


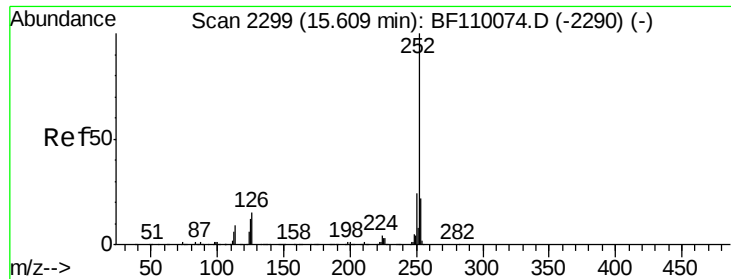
Abundance

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: 2.781 ng  
 RT: 15.60 min Scan# 2298  
 Delta R.T. -0.02 min  
 Lab File: BF110113.D  
 Acq: 24 Oct 2018 14:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4(0-2)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 27.2  | 18.2       | 27.4  |
| 125     | 22.1  | 9.0        | 13.6  |

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