

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\  
 Data File : BF112076.D  
 Acq On : 17 Jan 2019 9:05  
 Operator : JU/SJ  
 Sample : K1147-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

Manual Integrations  
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 1/17/2019 2:55:35 PM

Quant Time: Jan 17 10:22:12 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 16 18:22:05 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 314172   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.14  | 136  | 1208701  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.90  | 164  | 589821   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.39 | 188  | 1079502  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.03 | 240  | 807850   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.50 | 264  | 759930   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 1580686  | 91.32 | ng    | 0.00     |
| 7) Phenol-d6                | 6.51  | 99   | 2000366  | 92.37 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 1232420  | 70.44 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330  | 610561   | 95.96 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.22  | 172  | 2202710  | 54.75 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.97 | 244  | 2175994  | 57.30 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 10) Phenol                  | 6.52  | 94   | 116703   | 4.931 | ng    | 87       |
| 50) Dimethylphthalate       | 9.60  | 163  | 283339   | 6.587 | ng    | # 96     |
| 71) Phenanthrene            | 11.41 | 178  | 174666   | 3.215 | ng    | # 92     |
| 75) Fluoranthene            | 12.60 | 202  | 541248   | 9.436 | ng    | 99       |
| 78) Pyrene                  | 12.83 | 202  | 488810   | 9.171 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.02 | 228  | 326428   | 7.047 | ng    | 98       |
| 83) Chrysene                | 14.05 | 228  | 300572   | 6.858 | ng    | 95       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.97 | 276  | 137228   | 3.394 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.07 | 252  | 376080m  | 8.718 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.09 | 252  | 114592m  | 2.745 | ng    |          |
| 90) Benzo(a)pyrene          | 15.43 | 252  | 249271   | 6.301 | ng    | 97       |
| 92) Benzo(a,h,i)perylene    | 17.42 | 276  | 125209   | 3.617 | ng    | 100      |

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

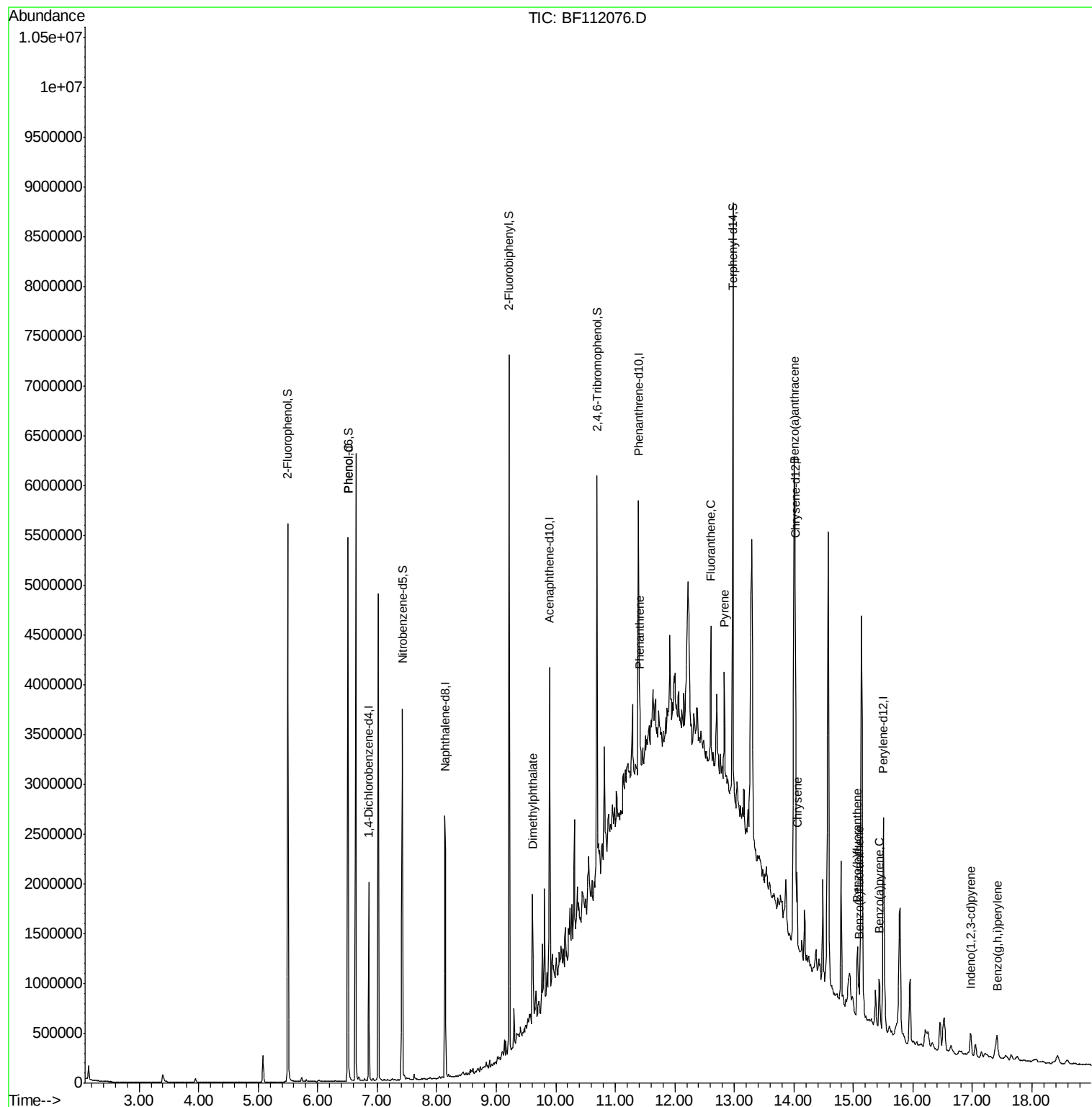
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011719\  
Data File : BF112076.D  
Acq On : 17 Jan 2019 9:05  
Operator : JU/SJ  
Sample : K1147-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

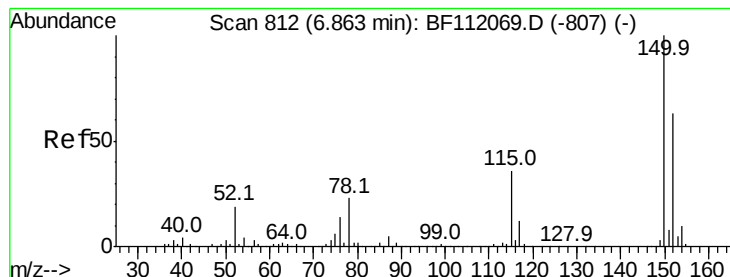
Instrument :  
BNA\_F  
ClientSampled :  
TP-1

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Quant Time: Jan 17 10:22:12 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 16 18:22:05 2019  
Response via : Initial Calibration





#1

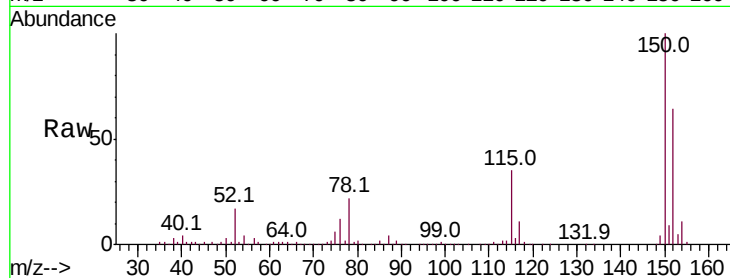
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.86 min Scan# 812  
 Delta R.T. -0.00 min  
 Lab File: BF112076.D  
 Acq: 17 Jan 2019 9:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.5 | 127.4 | 191.0 |
| 115     | 55.3  | 45.5  | 68.3  |

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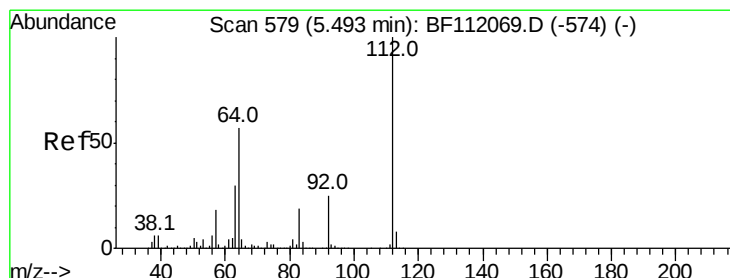
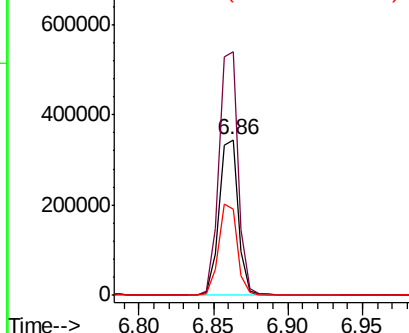
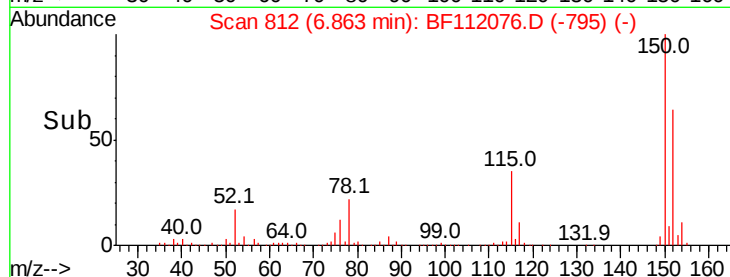


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

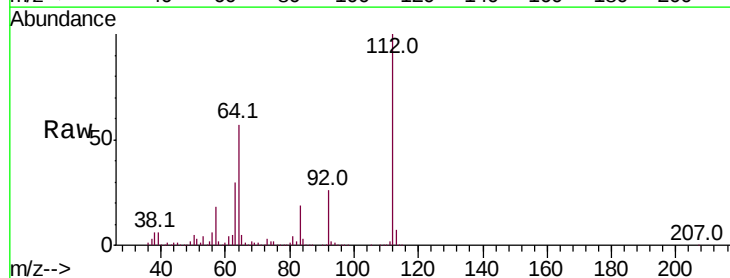
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 91.320 ng  
 RT: 5.50 min Scan# 580  
 Delta R.T. 0.01 min  
 Lab File: BF112076.D  
 Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.5  | 45.7  | 68.5  |
| 63      | 30.4  | 23.6  | 35.4  |

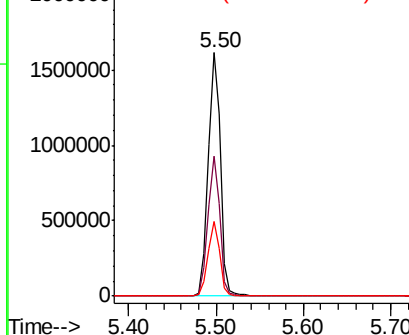
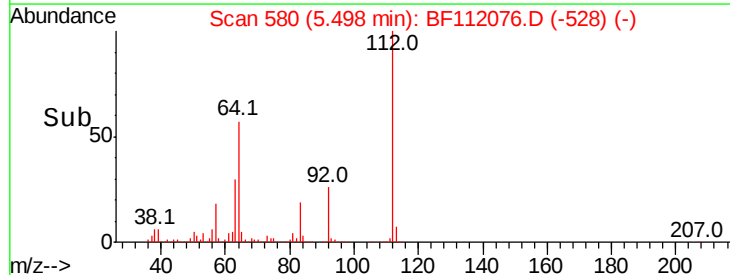


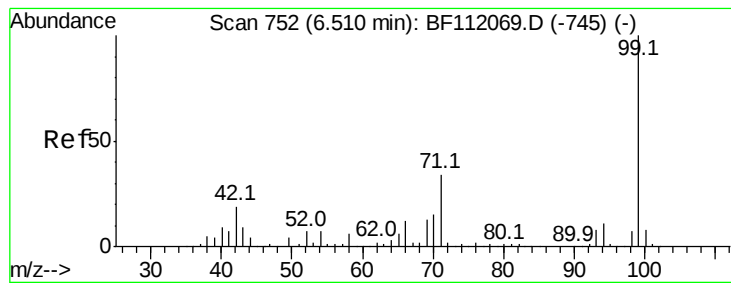
Abundance

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: 92.367 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

Instrument :

BNA\_F

ClientSampled :

TP-1

Tot Ion: 99 Resp: 2000366

Ion Ratio Lower Upper

99 100

42 18.5 15.1 22.7

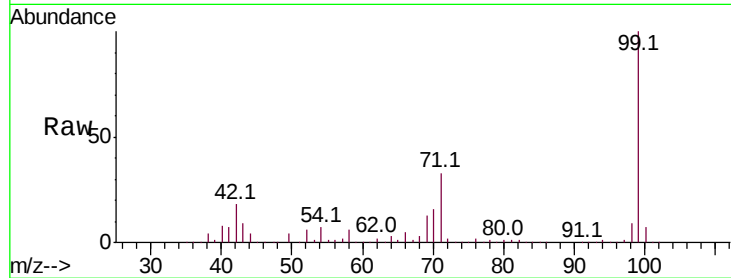
71 33.3 26.9 40.3

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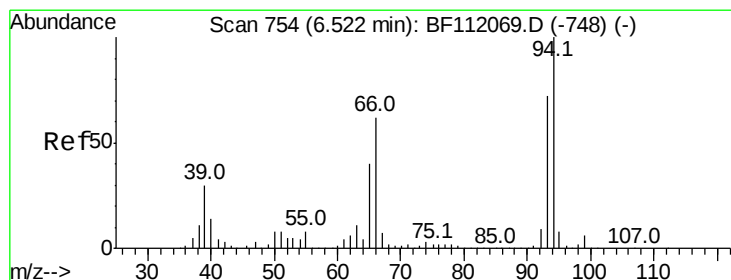
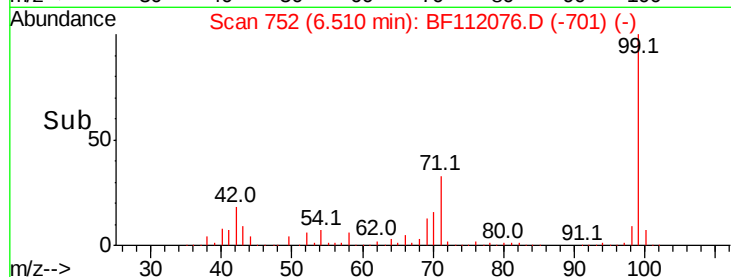
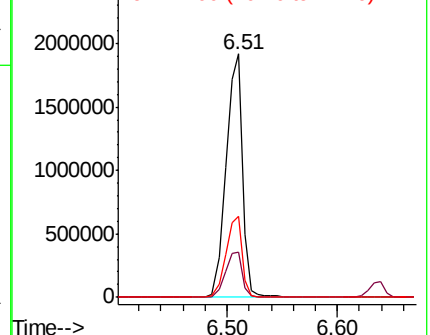
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 4.931 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

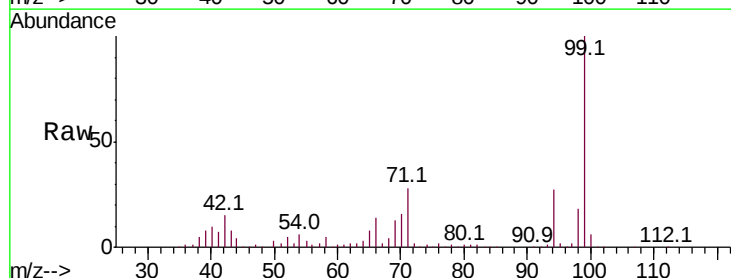
Tgt Ion: 94 Resp: 116703

Ion Ratio Lower Upper

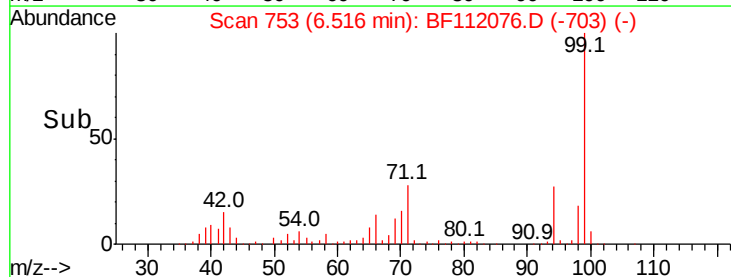
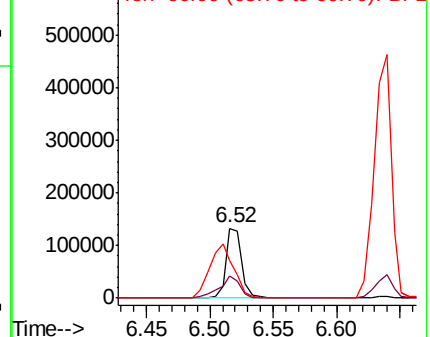
94 100

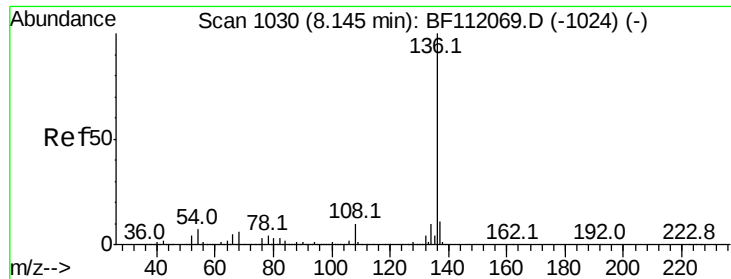
65 31.8 20.3 60.3

66 53.2 42.4 82.4



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





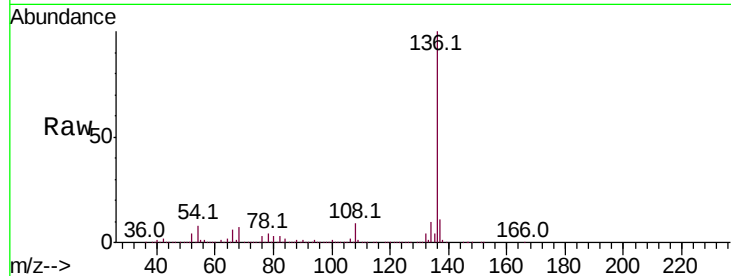
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

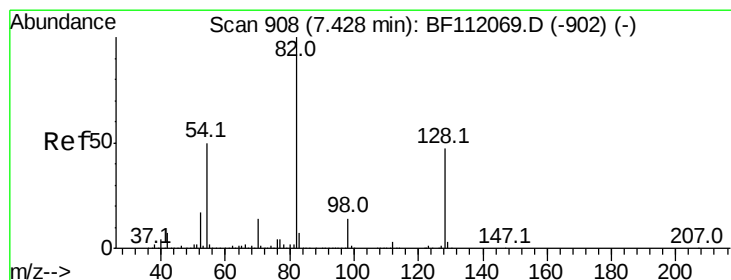
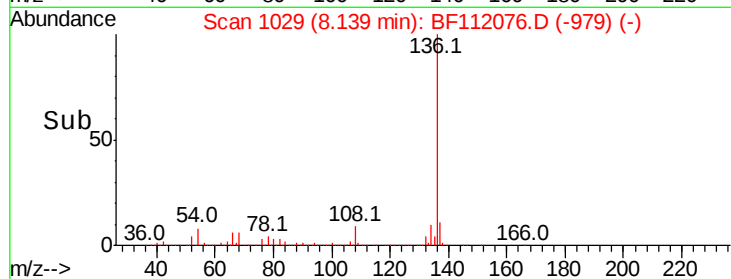
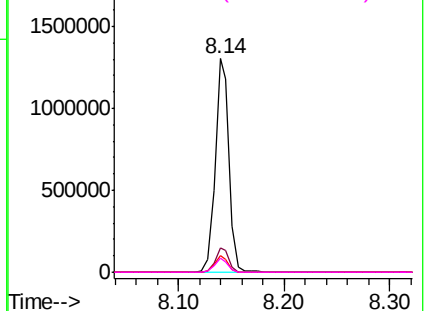
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.4  | 9.1   | 13.7  |
| 54      | 7.8   | 5.9   | 8.9   |
| 68      | 6.5   | 5.1   | 7.7   |

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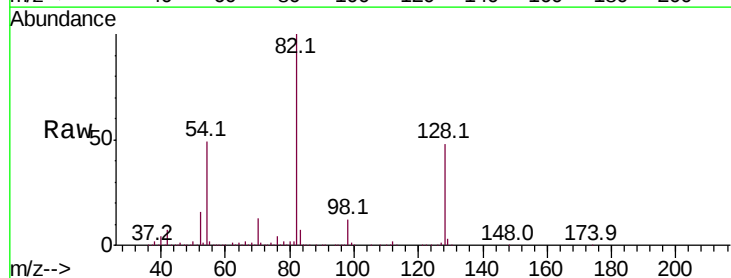


Abundance Ion 136.00 (135.70 to 136.70): E  
2000000  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

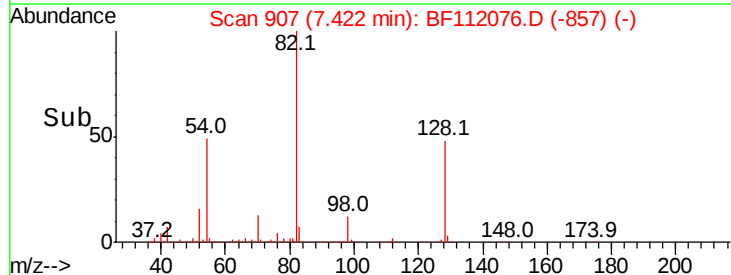
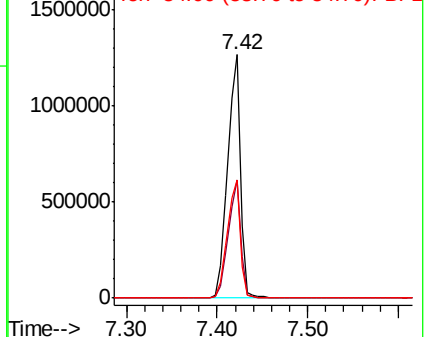


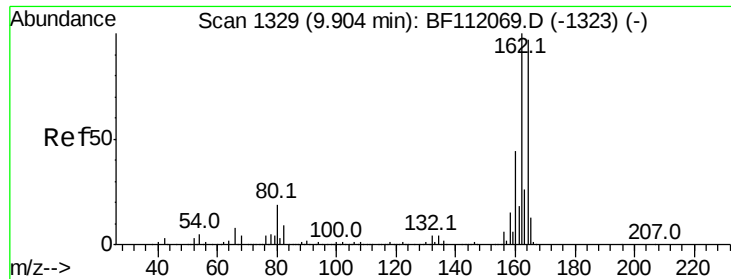
#23  
Nitrobenzene-d5  
Concen: 70.445 ng  
RT: 7.42 min Scan# 907  
Delta R.T. -0.01 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 48.4  | 37.8  | 56.8  |
| 54      | 48.6  | 39.7  | 59.5  |



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





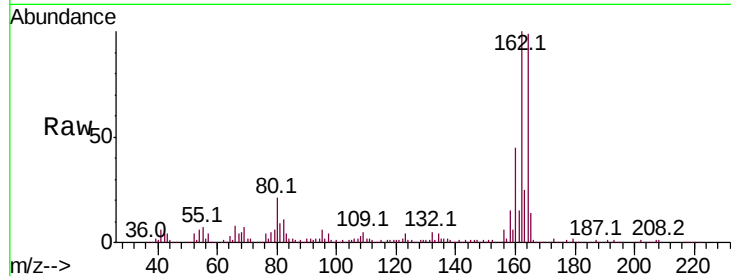
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.01 min  
 Lab File: BF112076.D  
 Acq: 17 Jan 2019 9:05

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-1

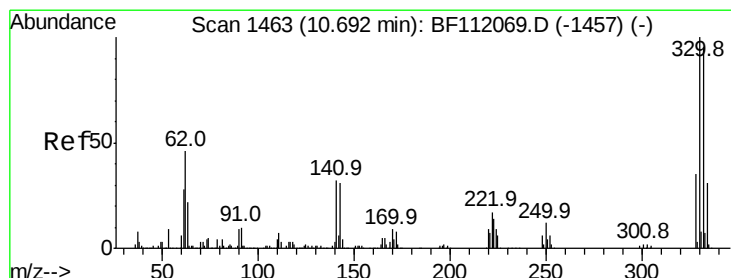
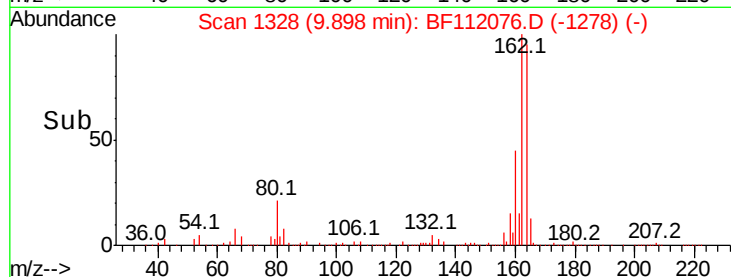
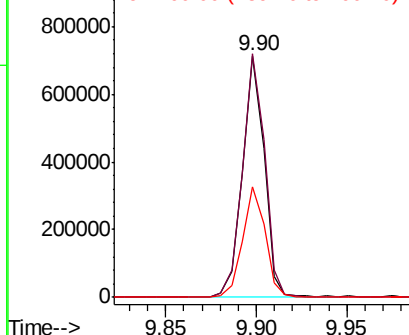
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 100.9 | 82.2 | 123.4 |       |
| 160     | 45.7  | 36.2 | 54.4  |       |

Manual Integrations  
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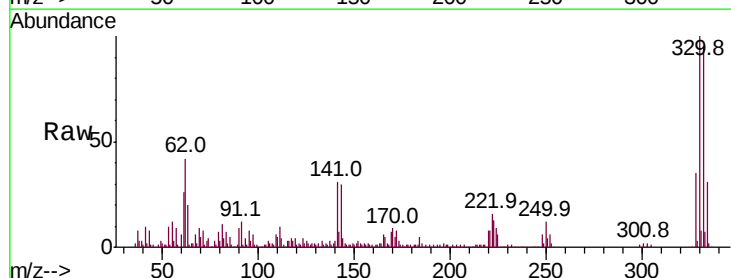


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

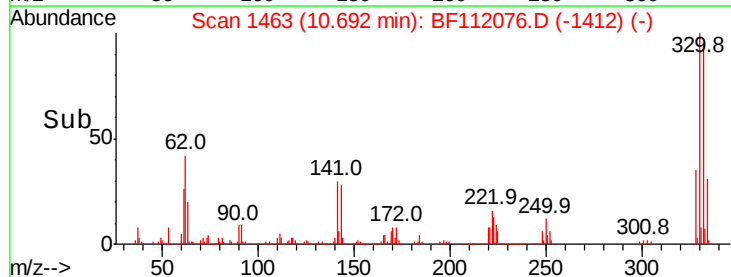
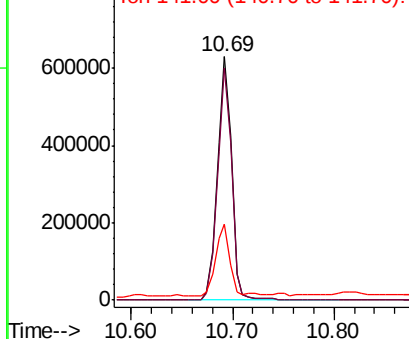


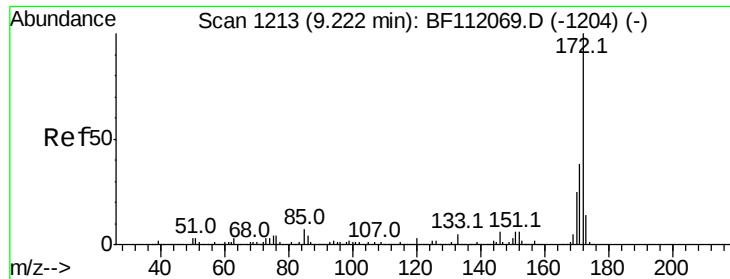
#42  
 2,4,6-Tribromophenol  
 Concen: 95.957 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.00 min  
 Lab File: BF112076.D  
 Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 95.9  | 76.6 | 114.8 |       |
| 141     | 29.6  | 24.3 | 36.5  |       |



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: 54.752 ng

RT: 9.22 min Scan# 1212

Delta R.T. -0.01 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

Instrument :

BNA\_F

ClientSampled :

TP-1

Tot Ion:172 Resp: 2202710

Ion Ratio Lower Upper

172 100

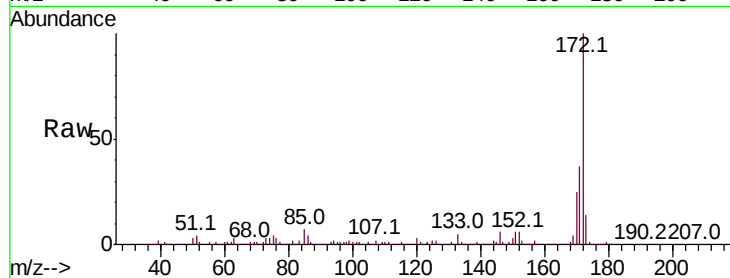
171 37.2 30.5 45.7

170 24.8 20.2 30.4

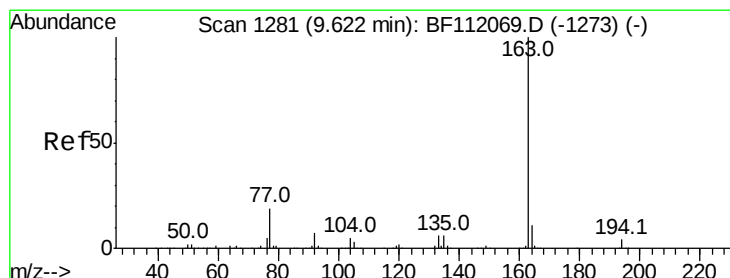
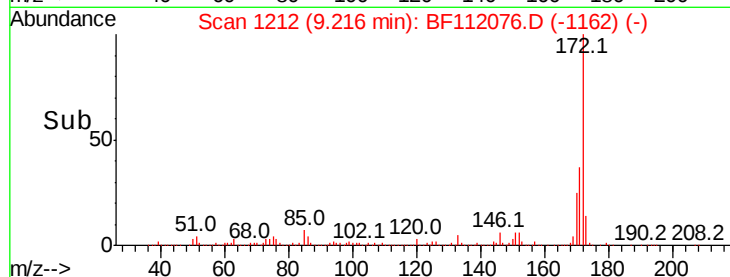
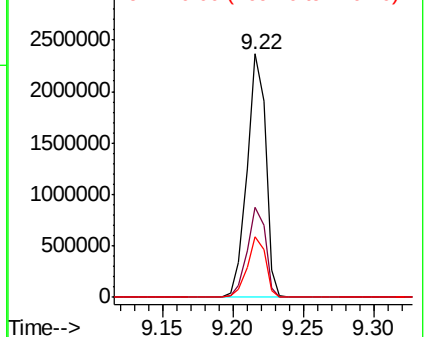
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Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E



#50

Dimethylphthalate

Concen: 6.587 ng

RT: 9.60 min Scan# 1278

Delta R.T. -0.02 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

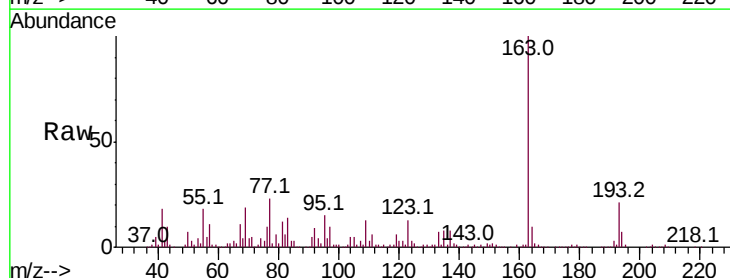
Tgt Ion:163 Resp: 283339

Ion Ratio Lower Upper

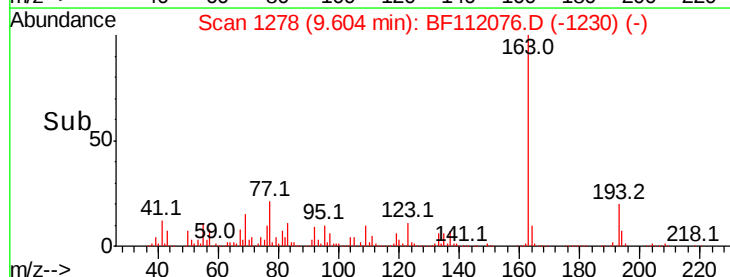
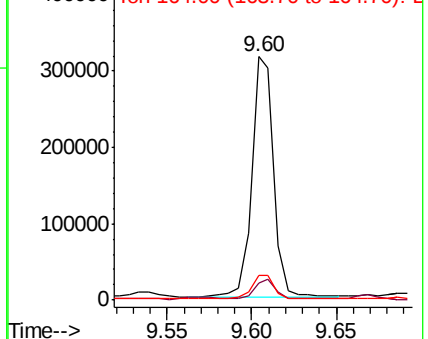
163 100

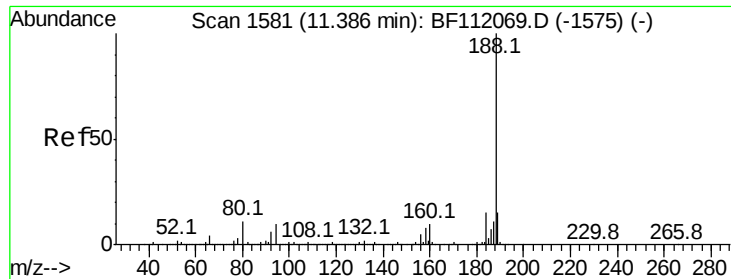
194 7.2 3.3 4.9#

164 10.0 8.5 12.7



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





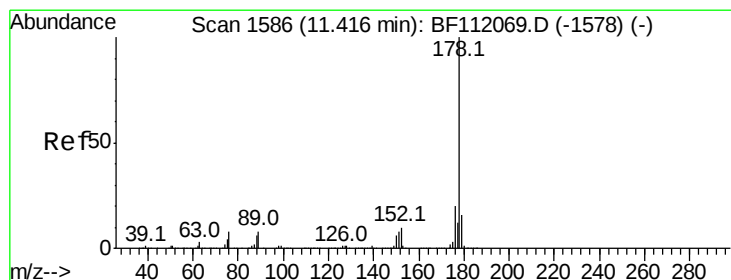
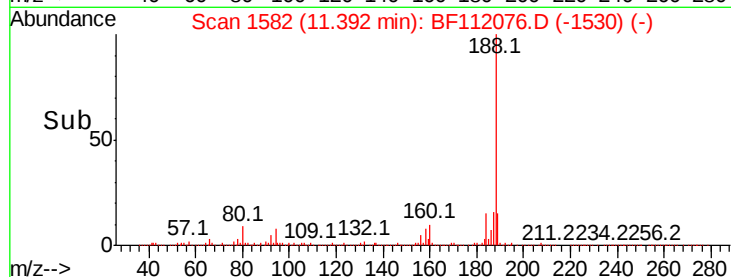
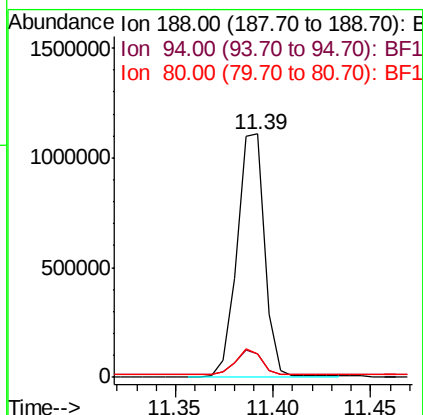
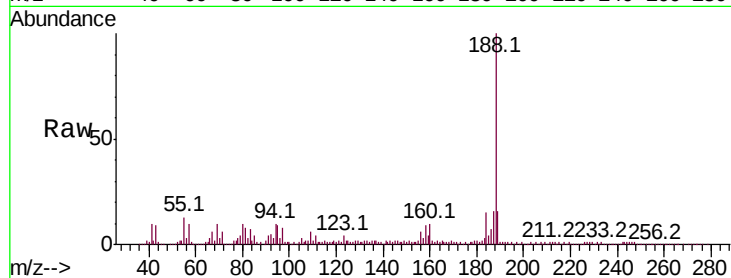
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1582  
Delta R.T. 0.01 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

Instrument :  
BNA\_F  
ClientSampled :  
TP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 8.2   | 12.2  |
| 80      | 9.9   | 8.9   | 13.3  |

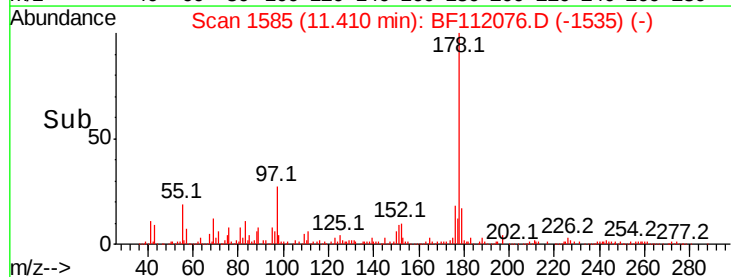
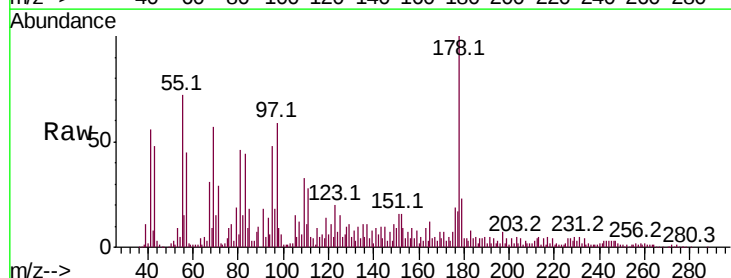
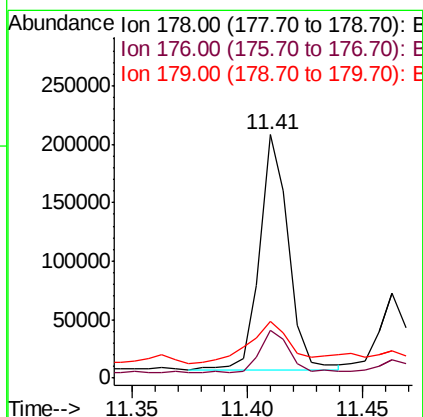
Manual Integrations  
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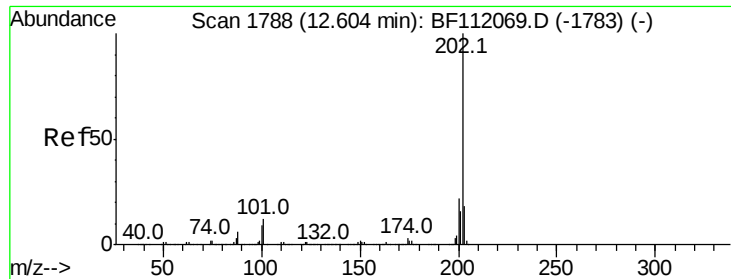
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1/17/2019 2:55:35 PM



#71  
Phenanthrene  
Concen: 3.215 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.01 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.4  | 16.3  | 24.5  |
| 179     | 23.1  | 13.0  | 19.4# |





#75

Fluoranthene

Concen: 9.436 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.00 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

Instrument :

BNA\_F

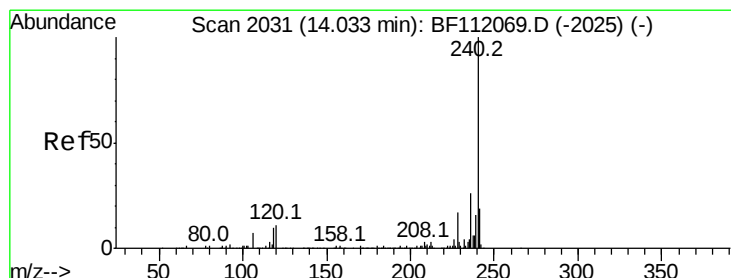
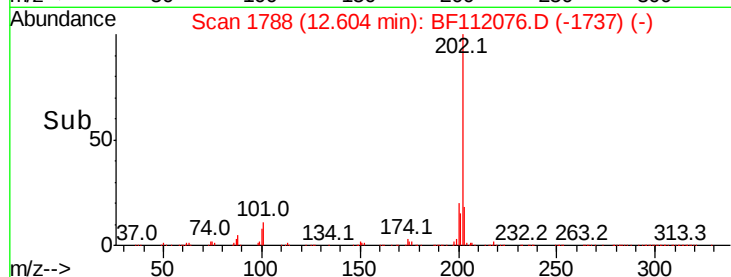
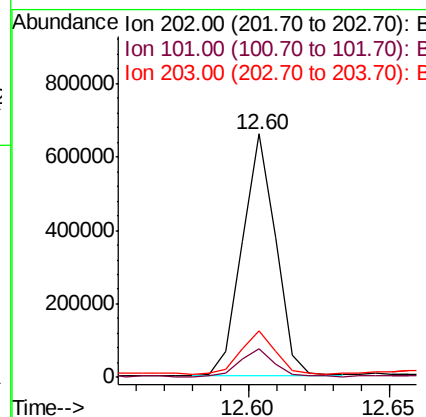
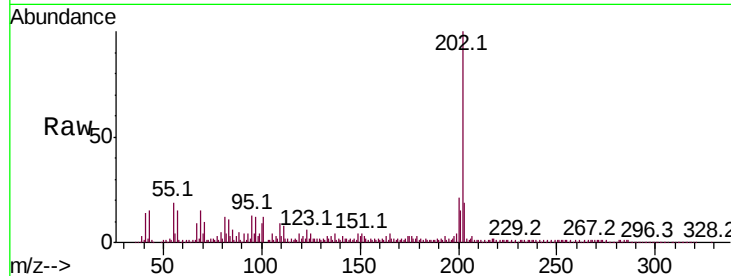
ClientSampleId :

TP-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 541248 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.5  | 0.0   | 31.8   |
| 203       | 19.3  | 0.0   | 38.4   |

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#76

Chrysene-d12

Concen: 20.000 ng

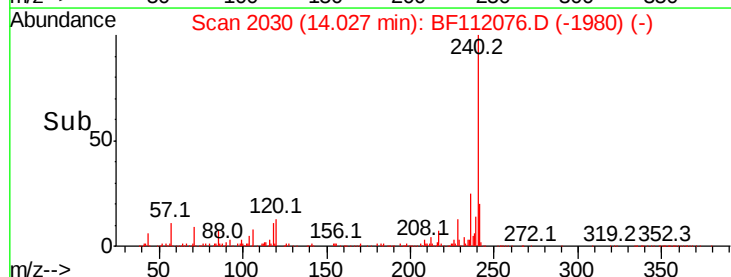
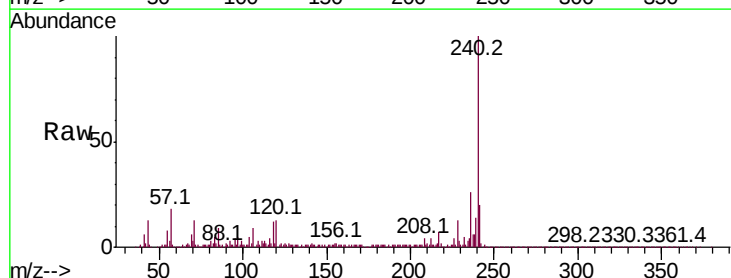
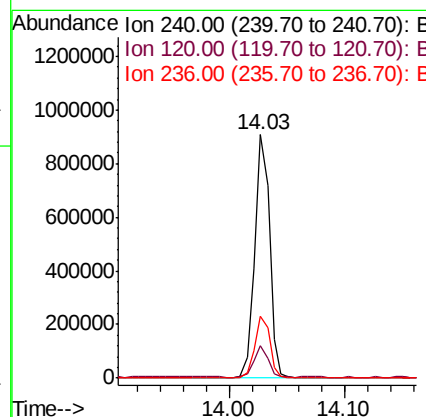
RT: 14.03 min Scan# 2030

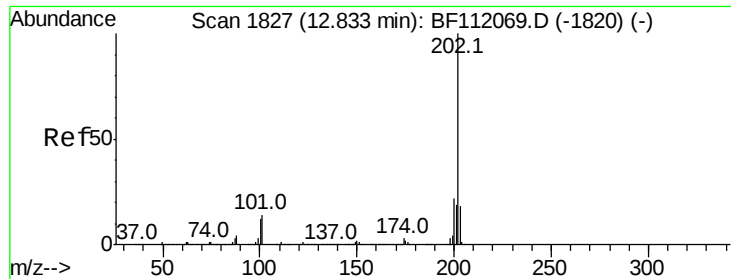
Delta R.T. -0.01 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 807850 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.2  | 9.0   | 13.6   |
| 236       | 25.5  | 20.7  | 31.1   |





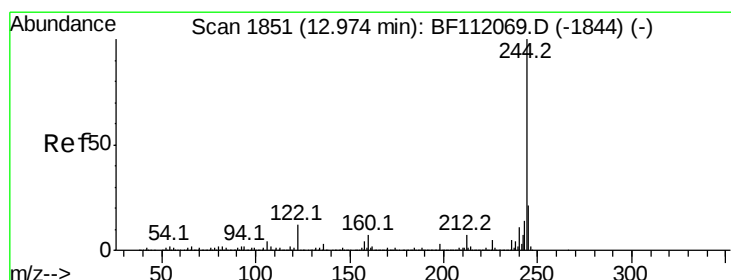
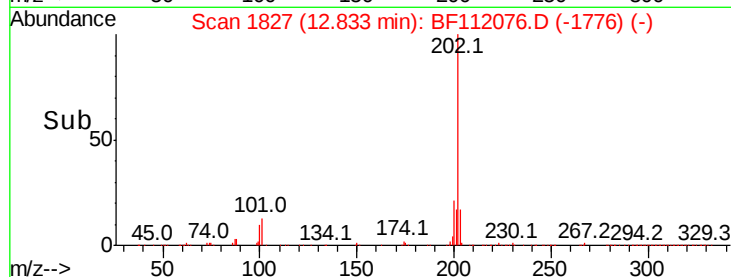
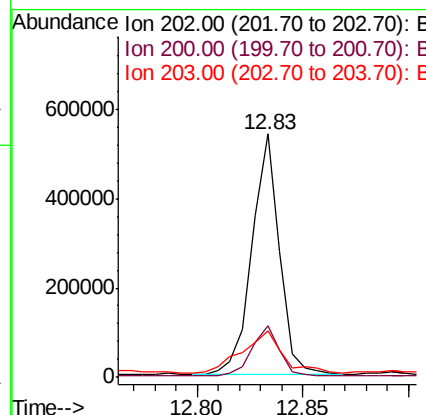
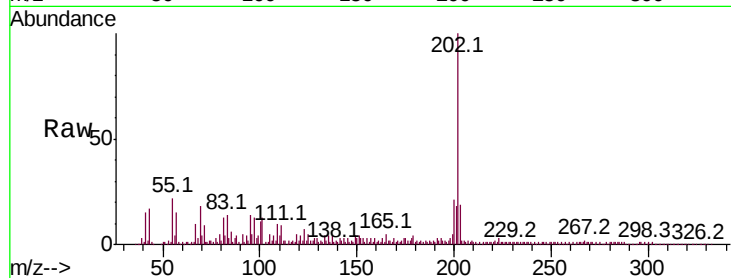
#78  
Pvrene  
Concen: 9.171 ng  
RT: 12.83 min Scan# 1827  
Delta R.T. -0.00 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

Instrument :  
BNA\_F  
ClientSampled :  
TP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.7  | 26.5  |
| 203     | 19.4  | 14.6  | 22.0  |

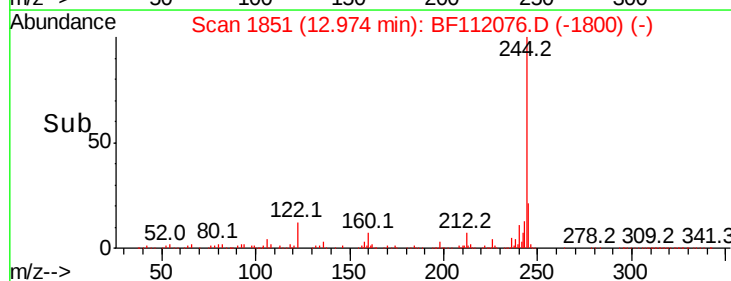
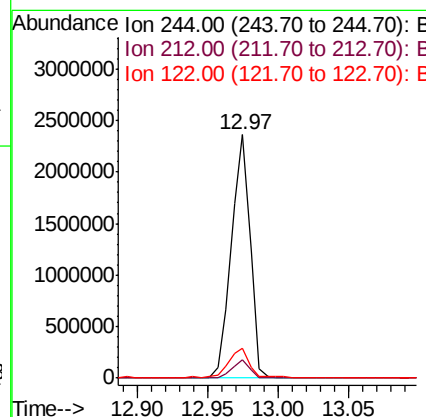
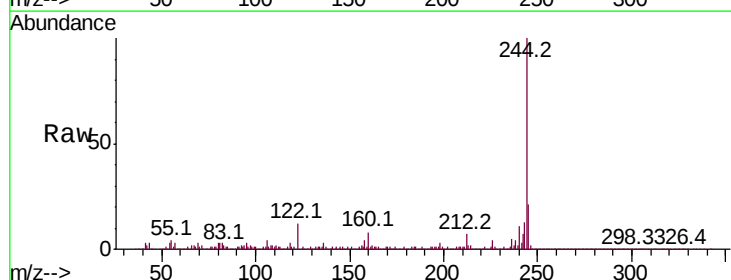
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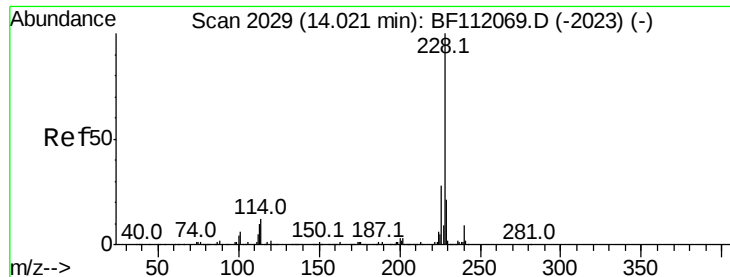
Sohil  
1/17/2019 2:55:35 PM



#79  
Terphenyl-d14  
Concen: 57.302 ng  
RT: 12.97 min Scan# 1851  
Delta R.T. -0.00 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.4   | 5.9   | 8.9   |
| 122     | 12.4  | 9.8   | 14.6  |





#81

Benzo(a)anthracene

Concen: 7.047 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

Instrument :

BNA\_F

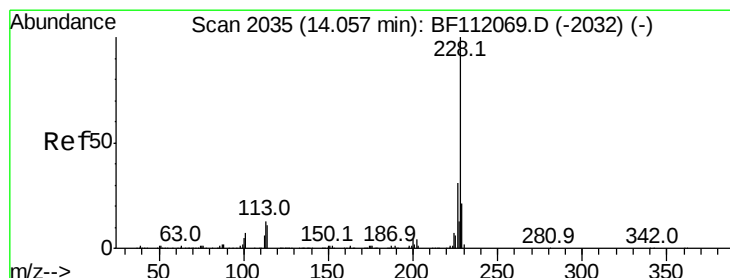
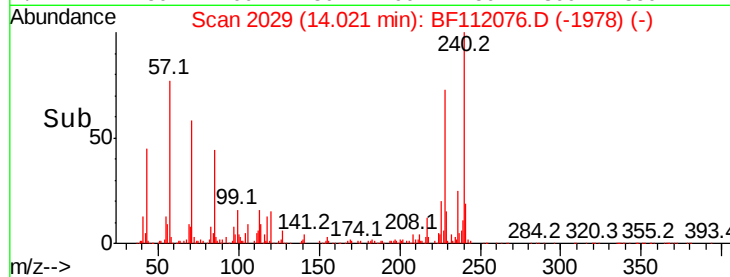
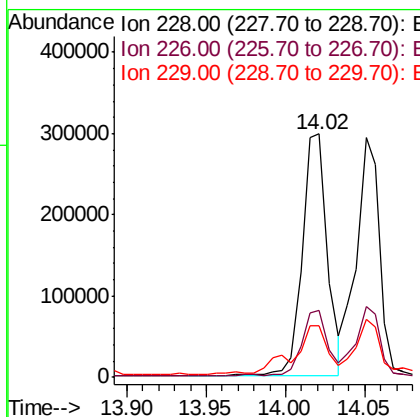
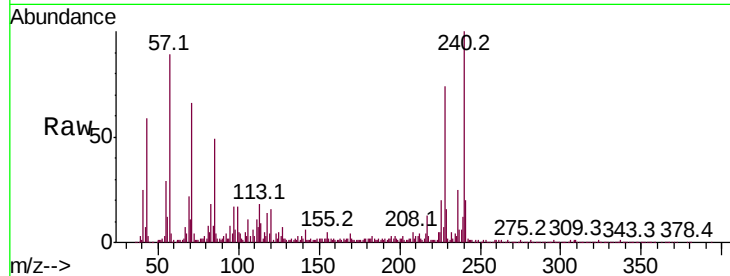
ClientSampleId :

TP-1

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:228 | Resp: | 326428    |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 27.4  | 22.6 34.0 |
| 229         | 21.3  | 16.5 24.7 |

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#83

Chrysene

Concen: 6.858 ng

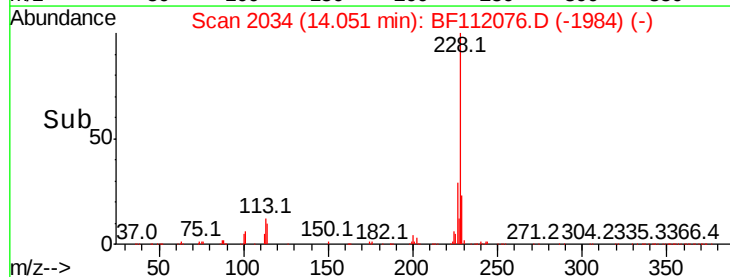
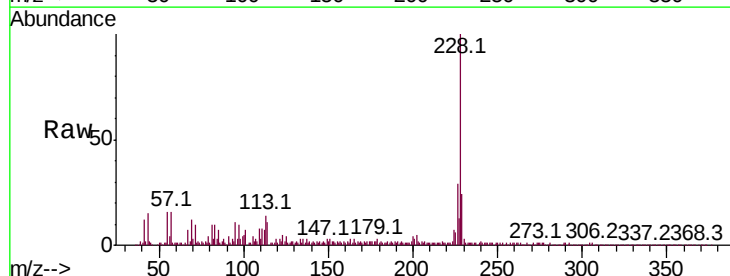
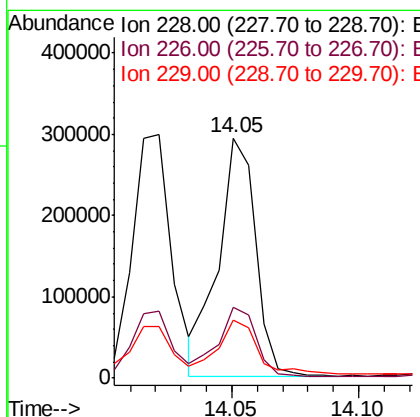
RT: 14.05 min Scan# 2034

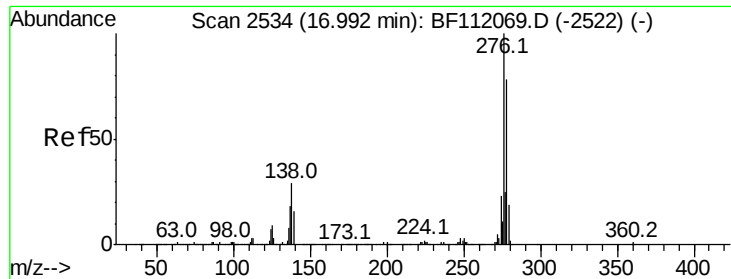
Delta R.T. -0.01 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 300572    |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 29.4  | 25.0 37.6 |
| 229         | 24.2  | 16.6 24.8 |





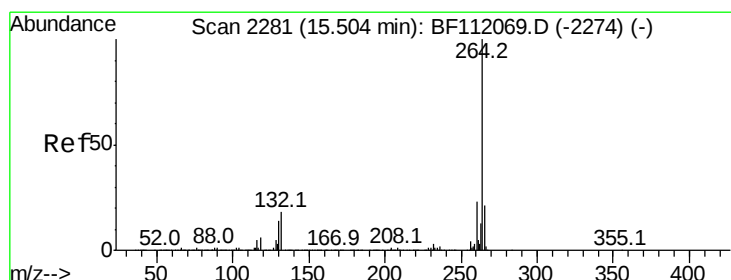
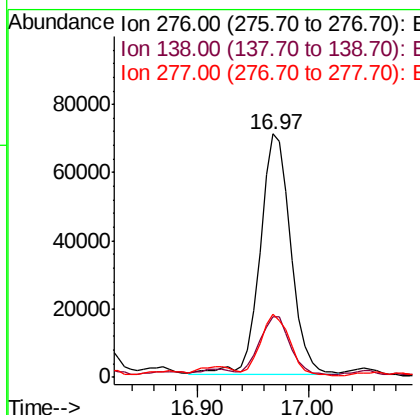
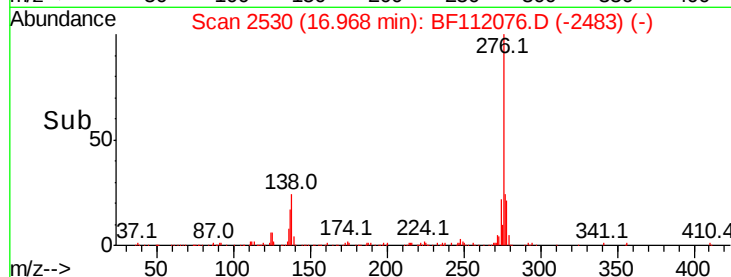
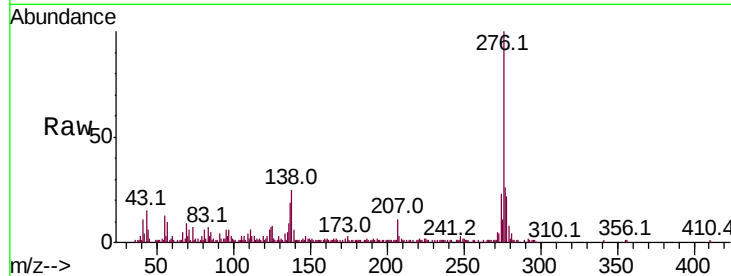
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 3.394 ng  
RT: 16.97 min Scan# 2530  
Delta R.T. -0.02 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

Instrument :  
BNA\_F  
ClientSampleId :  
TP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.8  | 22.6  | 34.0  |
| 277     | 24.3  | 20.3  | 30.5  |

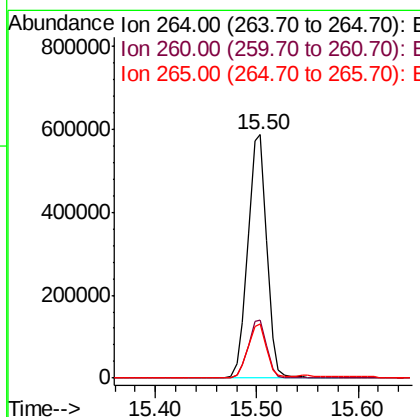
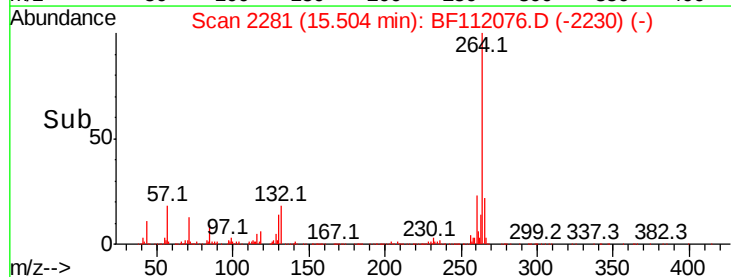
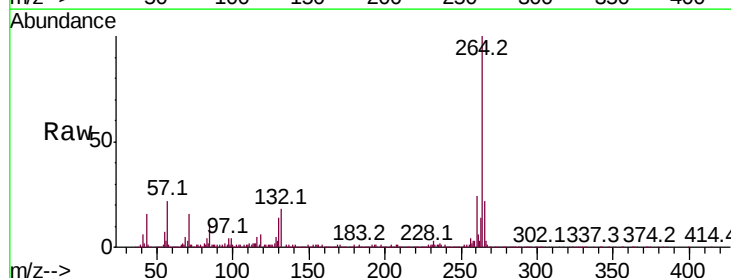
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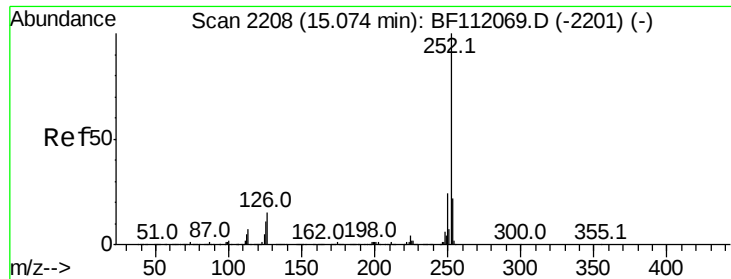
Sohil  
1/17/2019 2:55:35 PM



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2281  
Delta R.T. -0.00 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 18.2  | 27.2  |
| 265     | 22.0  | 17.0  | 25.4  |





#88

Benzo(b)fluoranthene

Concen: 8.718 ng m

RT: 15.07 min Scan# 2207

Delta R.T. -0.01 min

Lab File: BF112076.D

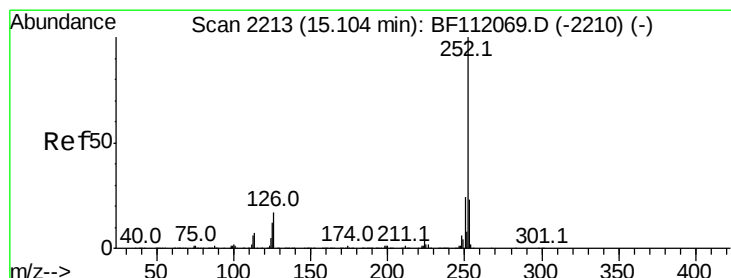
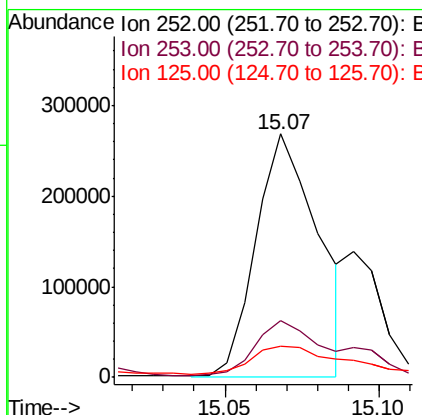
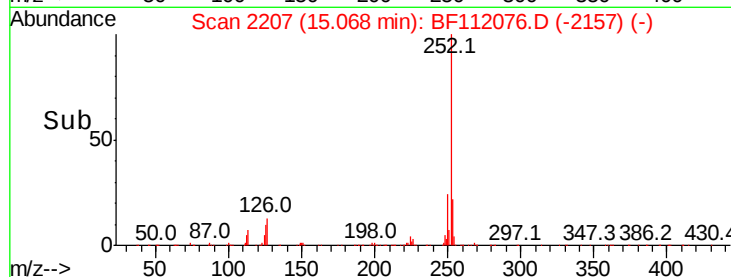
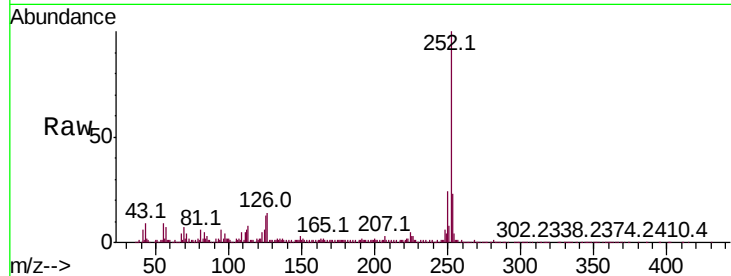
Acq: 17 Jan 2019 9:05

Instrument :  
BNA\_F  
ClientSampled :  
TP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 18.0  | 27.0  |
| 125     | 12.7  | 8.7   | 13.1  |

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1/17/2019 2:55:35 PM



#89

Benzo(k)fluoranthene

Concen: 2.745 ng m

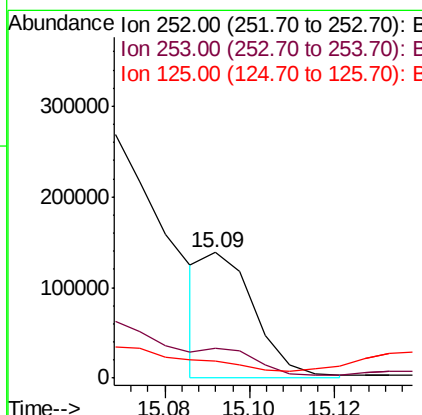
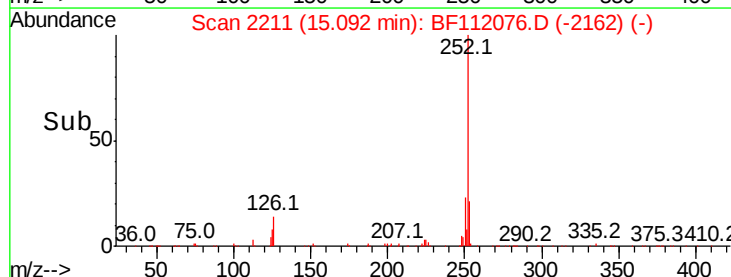
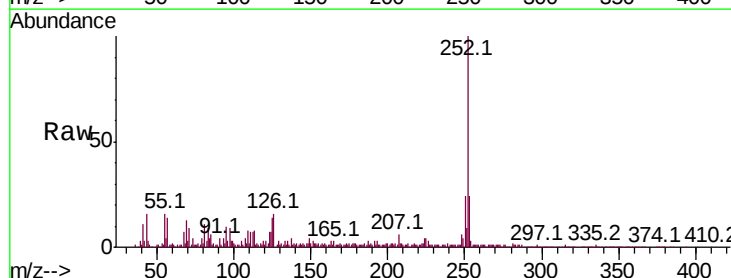
RT: 15.09 min Scan# 2211

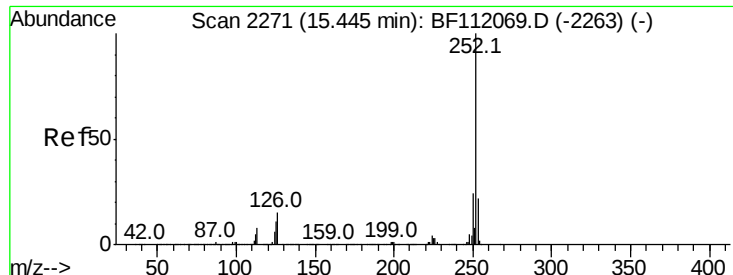
Delta R.T. -0.01 min

Lab File: BF112076.D

Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 18.0  | 27.0  |
| 125     | 13.9  | 9.1   | 13.7# |





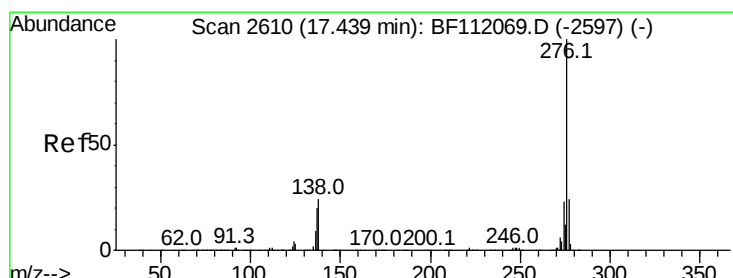
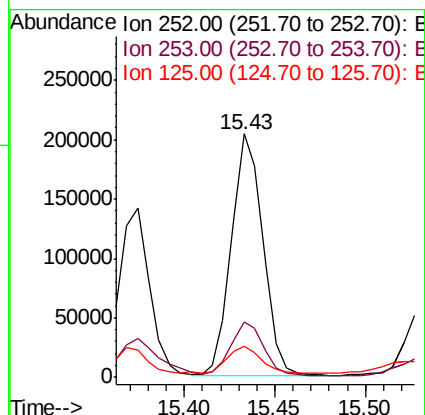
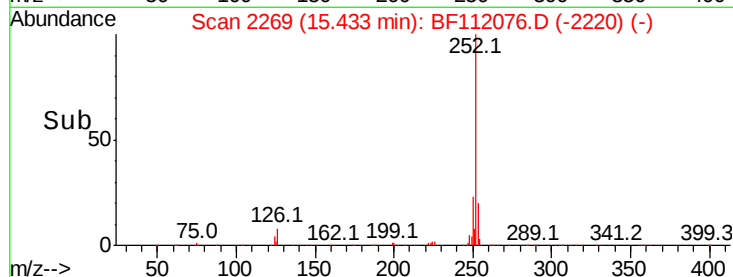
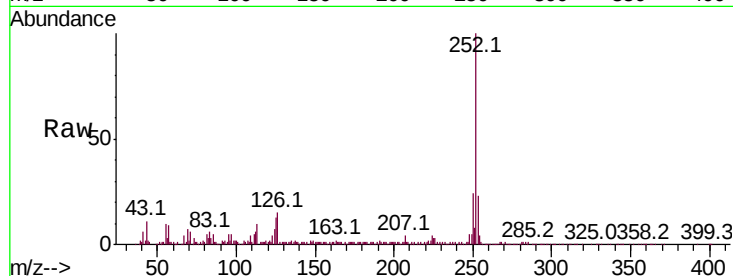
#90  
Benzo(a)pyrene  
Concen: 6.301 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. -0.01 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

Instrument :  
BNA\_F  
ClientSampled :  
TP-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.5  | 26.3  |
| 125     | 13.0  | 9.0   | 13.4  |

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1/17/2019 2:55:35 PM



#92  
Benzo(g,h,i)perylene  
Concen: 3.617 ng  
RT: 17.42 min Scan# 2606  
Delta R.T. -0.02 min  
Lab File: BF112076.D  
Acq: 17 Jan 2019 9:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.3  | 19.4  | 29.0  |
| 138     | 23.9  | 19.1  | 28.7  |

