

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\  
 Data File : BF106642.D  
 Acq On : 21 Jun 2018 1:30  
 Operator : JU/SJ  
 Sample : J3575-10 5X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleID :  
 TP-12

Manual Integrations  
 APPROVED

Sohil  
 6/21/2018 11:28:12 AM

Quant Time: Jun 21 08:08:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 19 14:32:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.96  | 152  | 81263    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8          | 8.24  | 136  | 306242   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10        | 10.00 | 164  | 132692   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10        | 11.49 | 188  | 229724   | 20.00  | ng    | -0.01     |
| 75) Chrysene-d12            | 14.14 | 240  | 257277   | 20.00  | ng    | -0.01     |
| 86) Perylene-d12            | 15.68 | 264  | 209019   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.60  | 112  | 108014   | 22.51  | ng    | 0.00      |
| 7) Phenol-d6                | 6.60  | 99   | 133794   | 22.32  | ng    | 0.00      |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 77996    | 14.15  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 27298    | 17.75  | ng    | -0.01     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 139883   | 3.74   | ng    | -0.01     |
| 78) Terphenyl-d14           | 13.07 | 244  | 151483   | 14.26  | ng    | -0.01     |
| Target Compounds            |       |      |          |        |       |           |
| 70) Phenanthrene            | 11.51 | 178  | 41688    | 3.762  | ng    | Qvalue 97 |
| 74) Fluoranthene            | 12.71 | 202  | 140809   | 11.530 | ng    | 97        |
| 77) Pyrene                  | 12.94 | 202  | 318585   | 18.778 | ng    | 99        |
| 80) Benzo(a)anthracene      | 14.14 | 228  | 194848m  | 12.426 | ng    |           |
| 82) Chrysene                | 14.17 | 228  | 238784   | 16.553 | ng    | 98        |
| 85) Indeno(1,2,3-cd)pyrene  | 17.24 | 276  | 83061    | 6.785  | ng    | # 88      |
| 87) Benzo(b)fluoranthene    | 15.22 | 252  | 204384m  | 15.741 | ng    |           |
| 88) Benzo(k)fluoranthene    | 15.25 | 252  | 60038m   | 4.856  | ng    |           |
| 89) Benzo(a)pyrene          | 15.61 | 252  | 186574m  | 16.164 | ng    |           |
| 90) Dibenzo(a,h)anthracene  | 17.25 | 278  | 24496    | 2.504  | ng    | # 86      |
| 91) Benzo(g,h,i)perylene    | 17.72 | 276  | 93241m   | 9.752  | ng    |           |

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

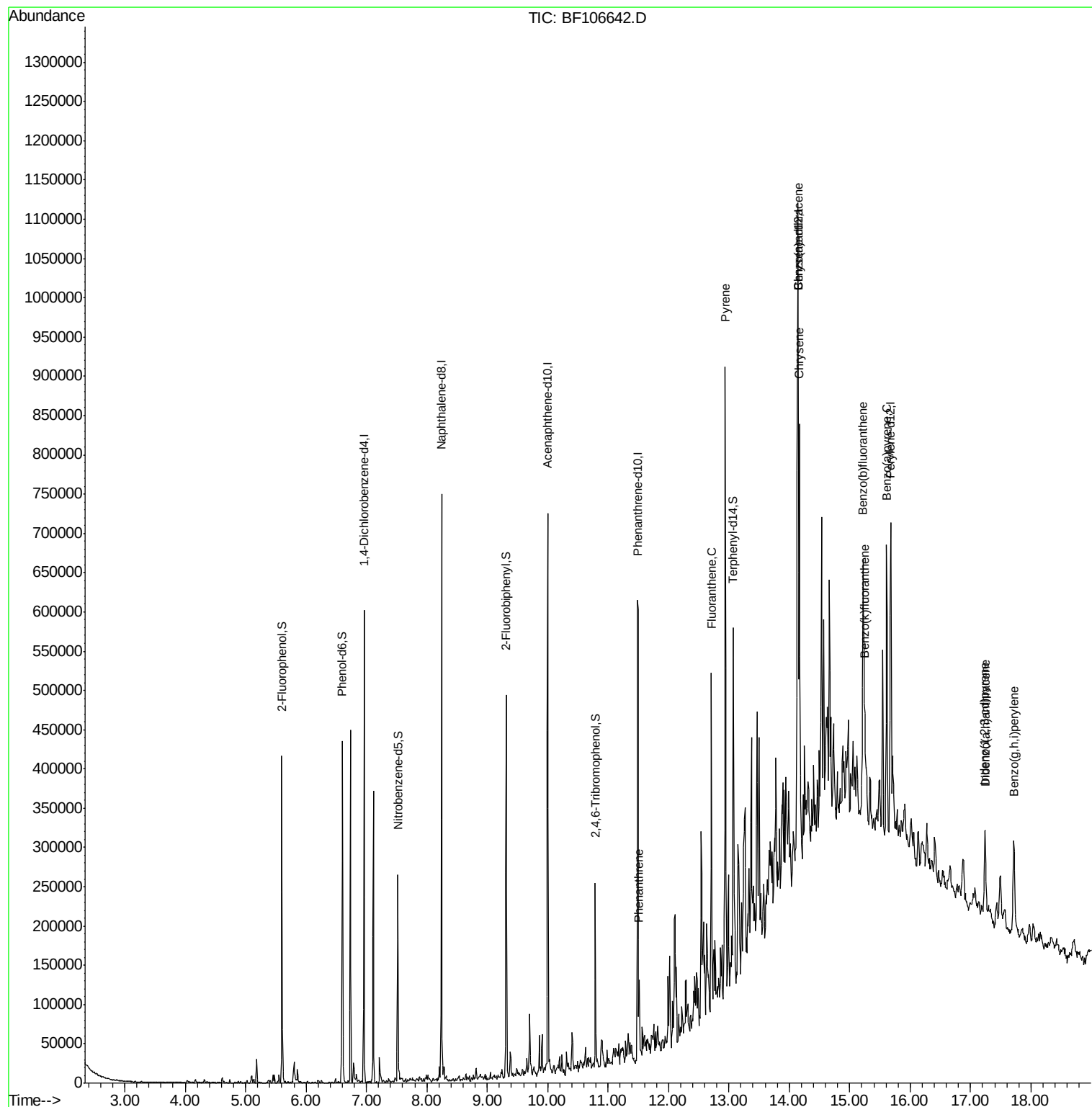
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\  
Data File : BF106642.D  
Acq On : 21 Jun 2018 1:30  
Operator : JU/SJ  
Sample : J3575-10 5X  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

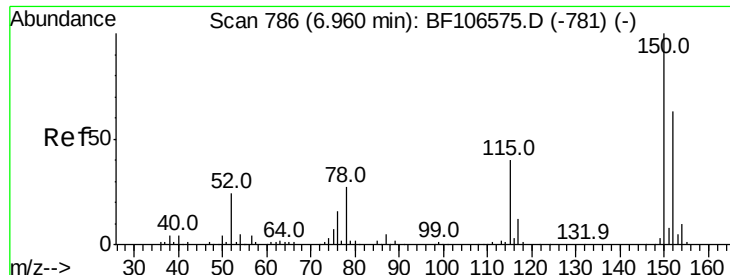
Instrument :  
BNA\_F  
ClientSampled :  
TP-12

Quant Time: Jun 21 08:08:22 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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Response via : Initial Calibration

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#1

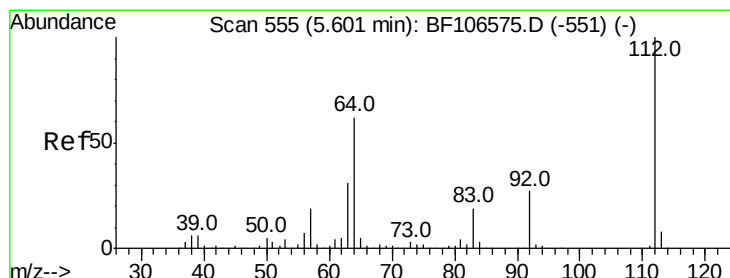
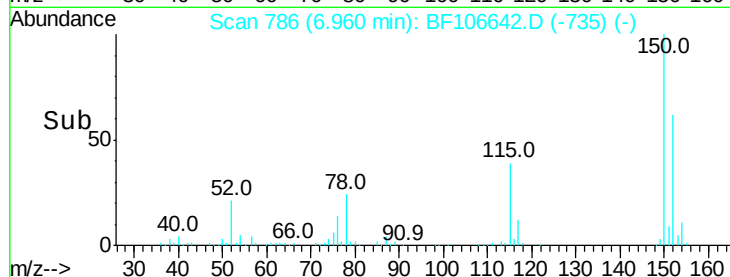
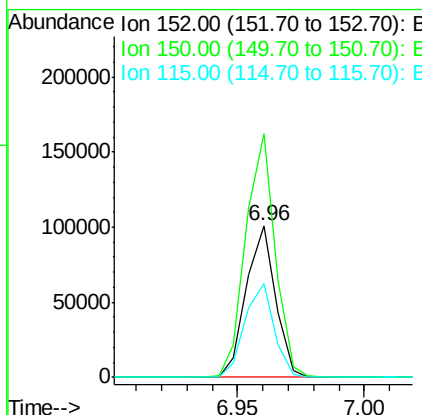
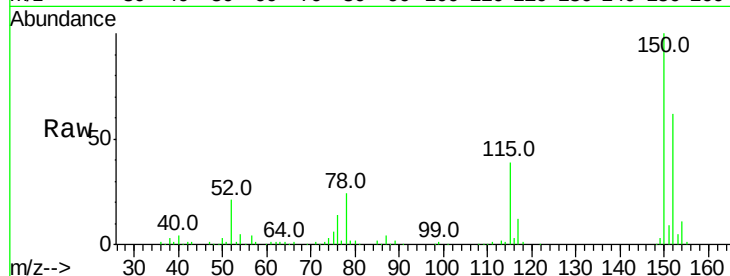
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

Instrument :  
BNA\_F  
ClientSampled :  
TP-12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.2 | 124.6 | 186.8 |
| 115     | 61.8  | 50.1  | 75.1  |

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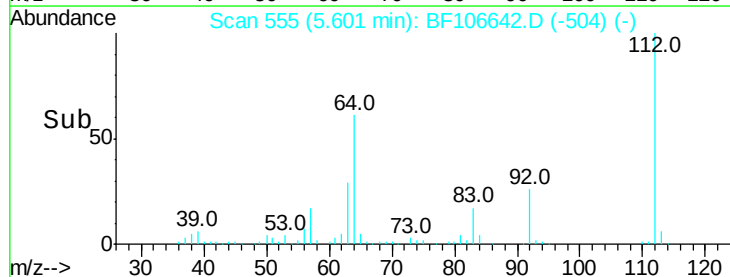
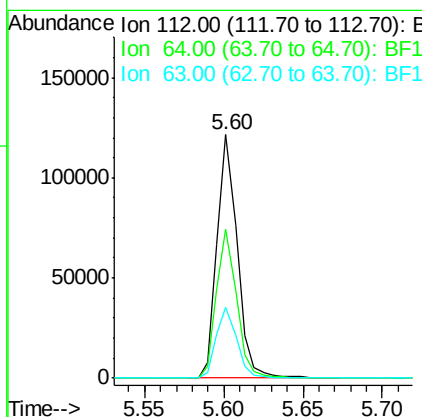
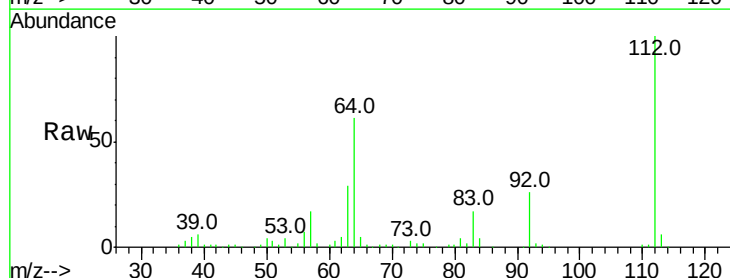
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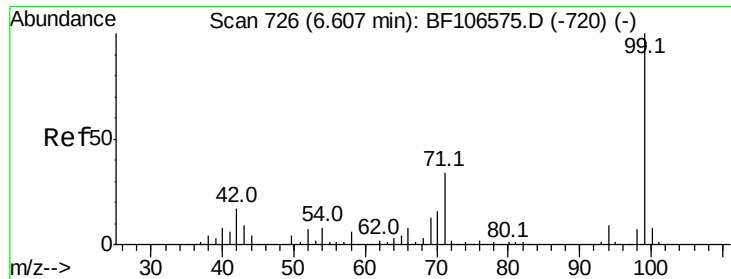


#5

2-Fluorophenol  
Concen: 22.507 ng  
RT: 5.60 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.3  | 47.9  | 71.9  |
| 63      | 28.8  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 22.325 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

Instrument :

BNA\_F

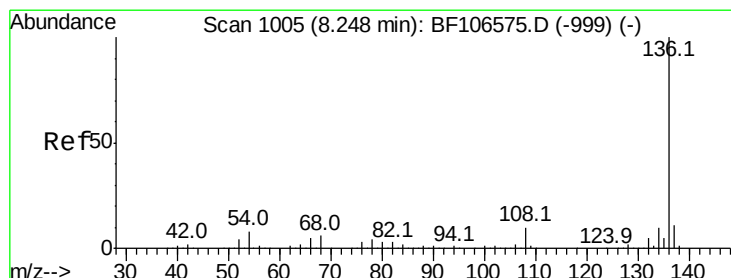
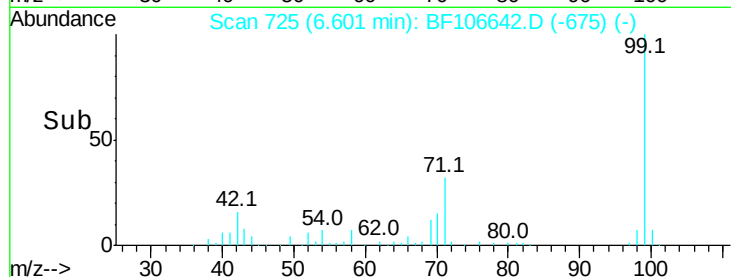
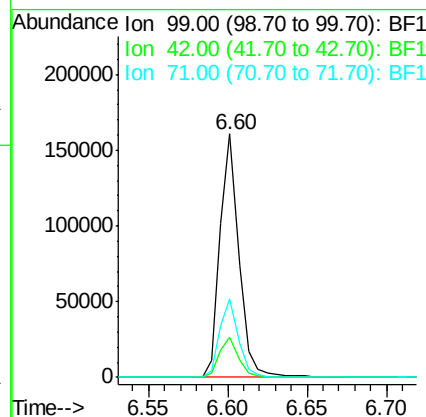
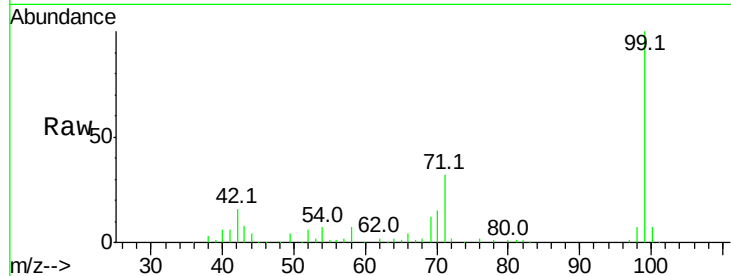
ClientSampled :

TP-12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 133794 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.5  | 14.5  | 21.7   |
| 71        | 32.5  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

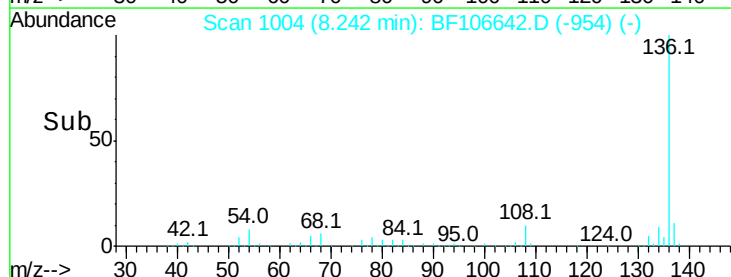
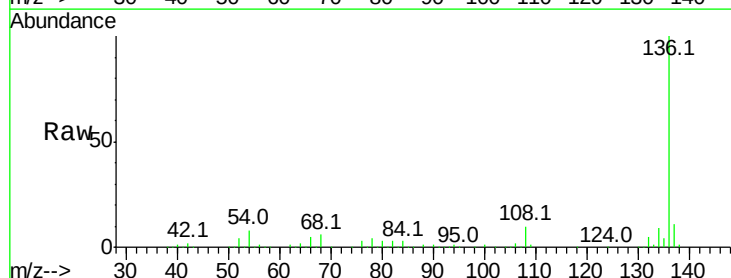
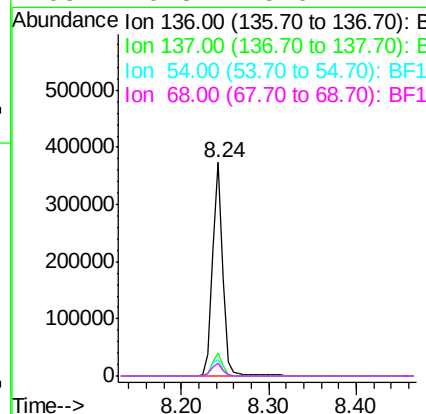
RT: 8.24 min Scan# 1004

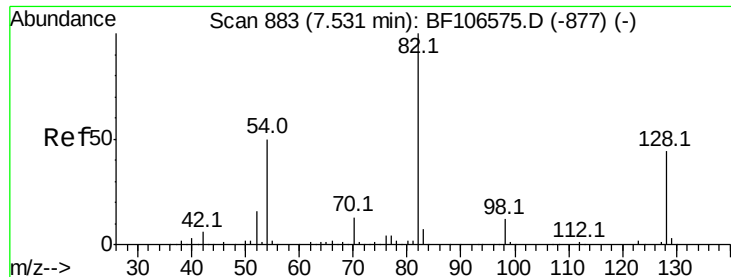
Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 306242 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.9   | 13.3   |
| 54        | 8.1   | 6.6   | 9.8    |
| 68        | 6.3   | 5.0   | 7.4    |





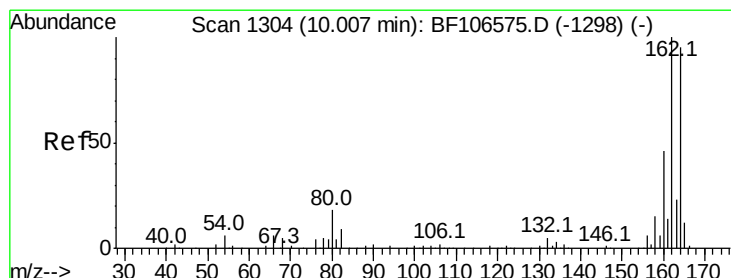
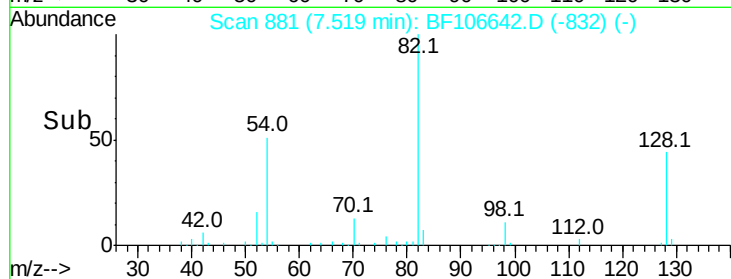
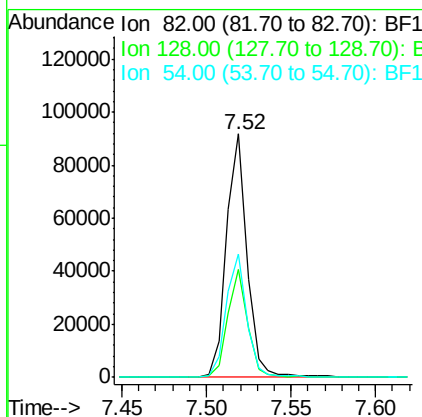
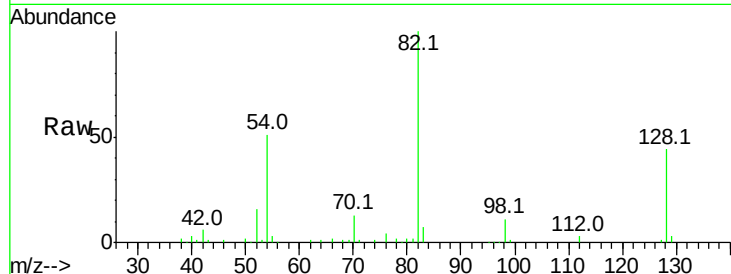
#23  
Nitrobenzene-d5  
Concen: 14.154 ng  
RT: 7.52 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

Instrument :  
BNA\_F  
ClientSampled :  
TP-12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.2  | 36.1  | 54.1  |
| 54      | 50.9  | 41.4  | 62.2  |

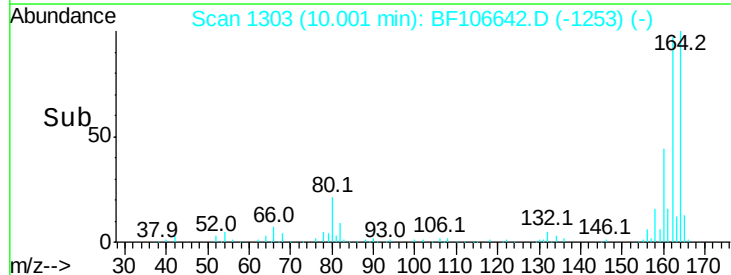
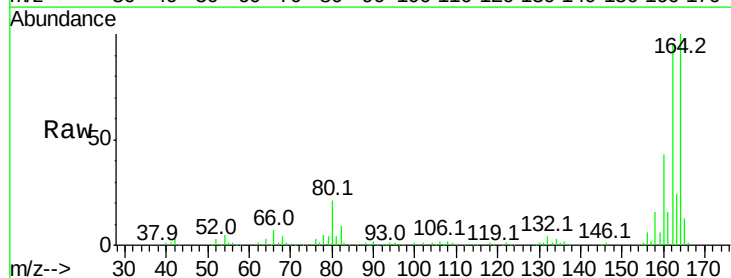
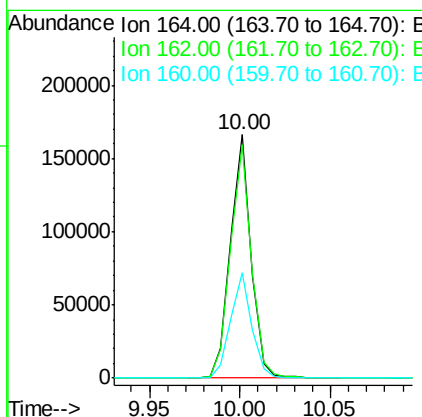
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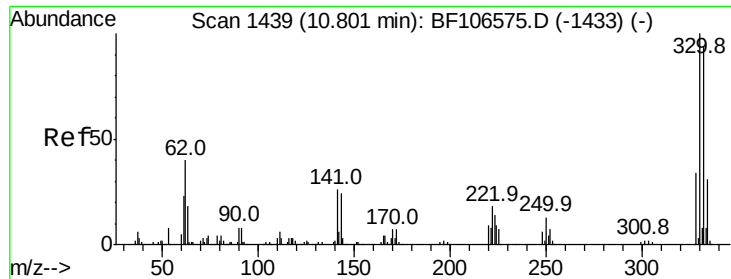
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.00 min Scan# 1303  
Delta R.T. -0.01 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 95.6  | 86.1  | 129.1 |
| 160     | 43.2  | 38.3  | 57.5  |





#41

2,4,6-Tribromophenol

Concen: 17.750 ng

RT: 10.79 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

Instrument :

BNA\_F

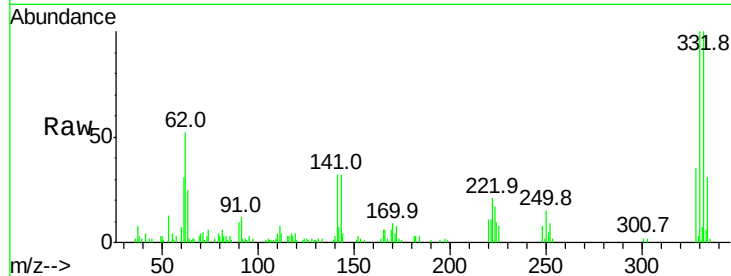
ClientSampled :

TP-12

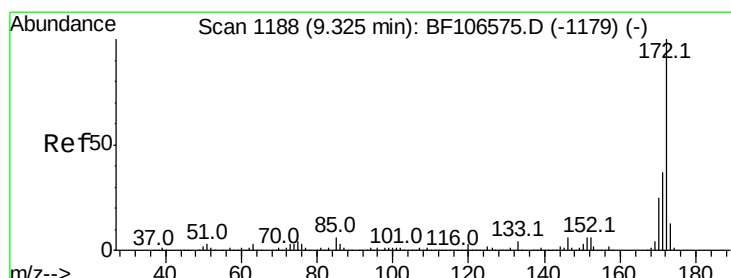
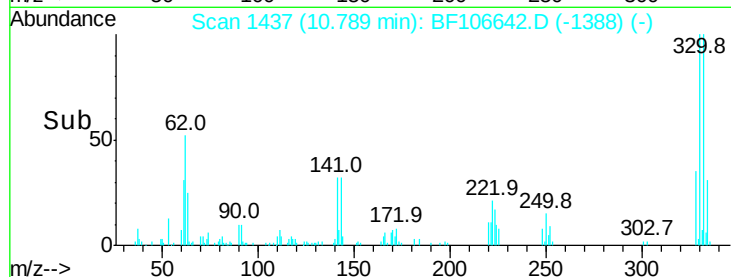
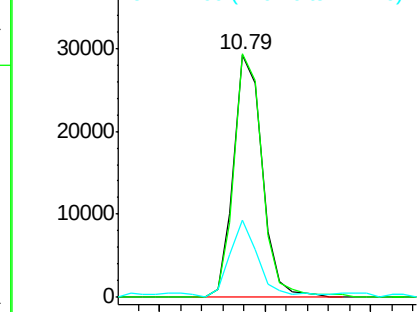
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 330   | Resp: | 27298 |
| Ion Ratio | Lower | Upper |       |
| 330       | 100   |       |       |
| 332       | 99.6  | 77.0  | 115.6 |
| 141       | 32.8  | 29.9  | 44.9  |

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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



#44

2-Fluorobiphenyl

Concen: 3.742 ng

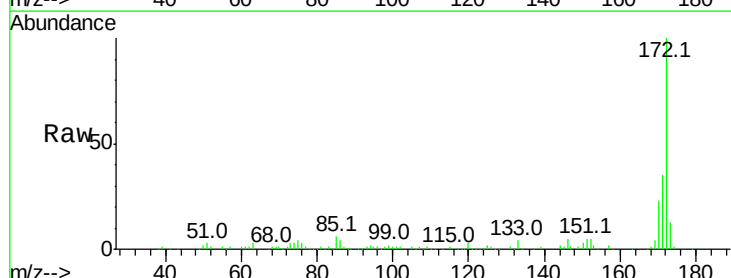
RT: 9.31 min Scan# 1186

Delta R.T. -0.01 min

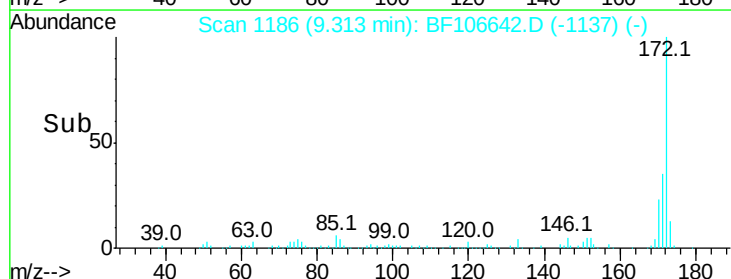
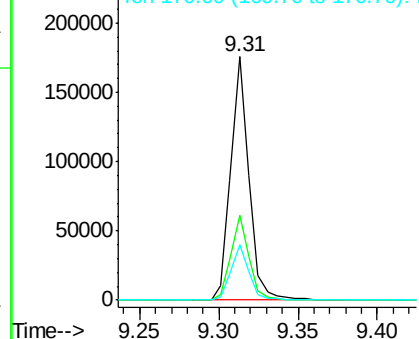
Lab File: BF106642.D

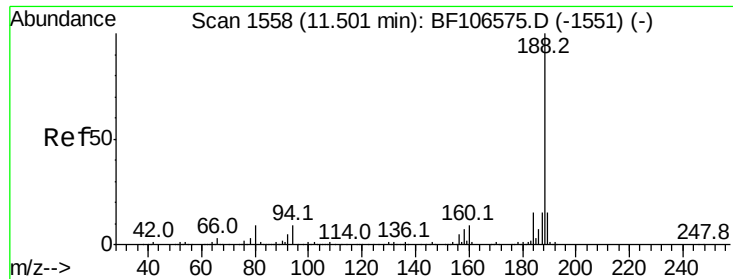
Acq: 21 Jun 2018 1:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 139883 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 35.0  | 29.7  | 44.5   |
| 170       | 22.6  | 19.6  | 29.4   |



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





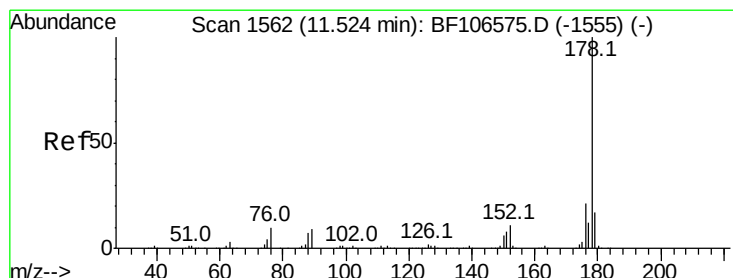
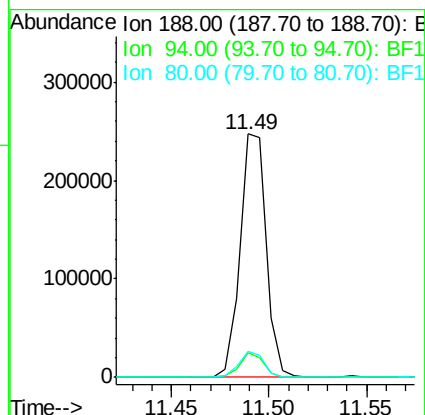
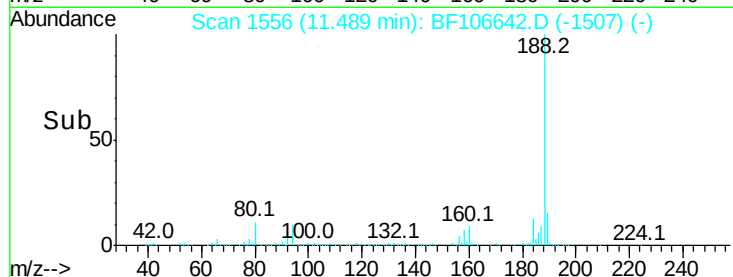
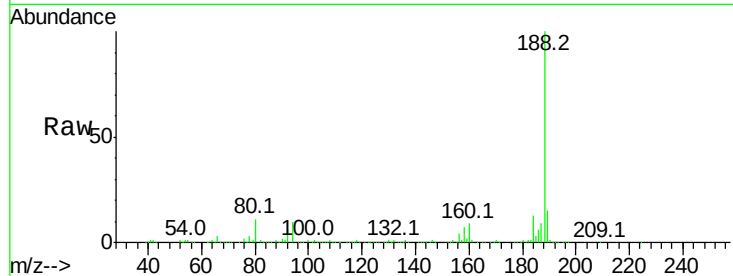
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP-12

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 229724 |       |       |
| 94      | 10.0  |        | 8.5   | 12.7  |
| 80      | 10.8  |        | 9.2   | 13.8  |

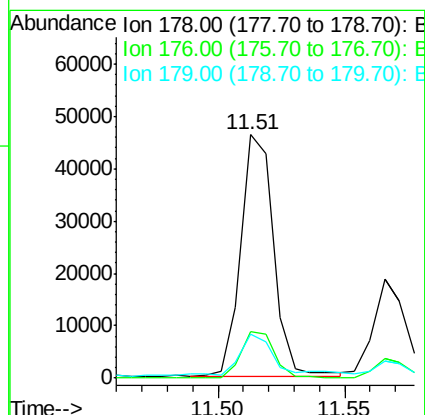
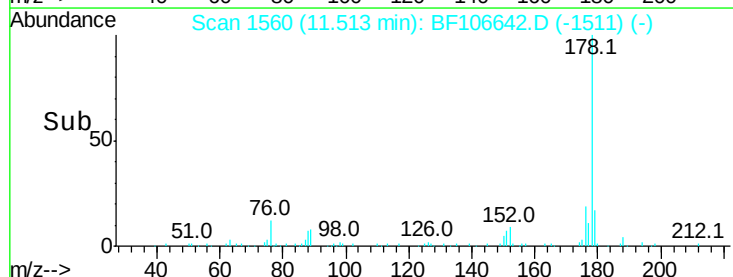
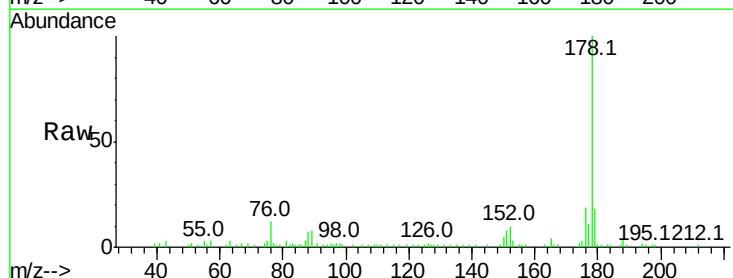
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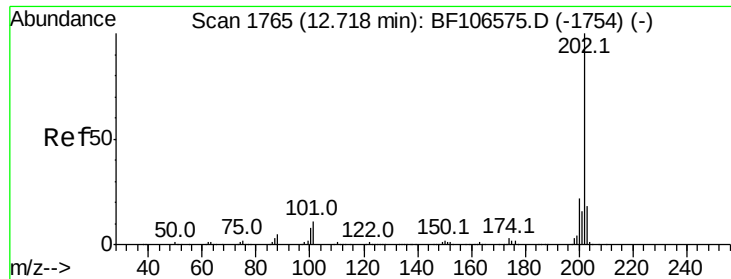
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#70  
Phenanthrene  
Concen: 3.762 ng  
RT: 11.51 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 41688 |       |       |
| 176     | 19.2  |       | 15.8  | 23.8  |
| 179     | 18.0  |       | 13.0  | 19.6  |





#74

Fluoranthene

Concen: 11.530 ng

RT: 12.71 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

Instrument :

BNA\_F

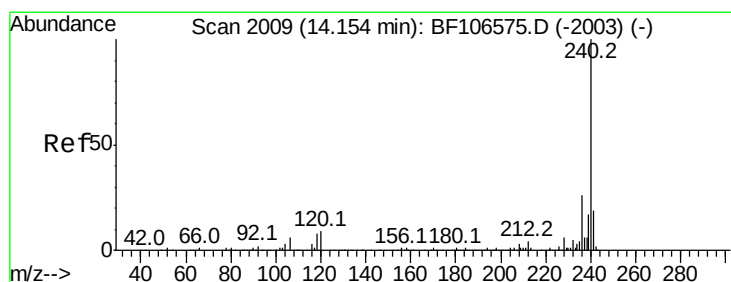
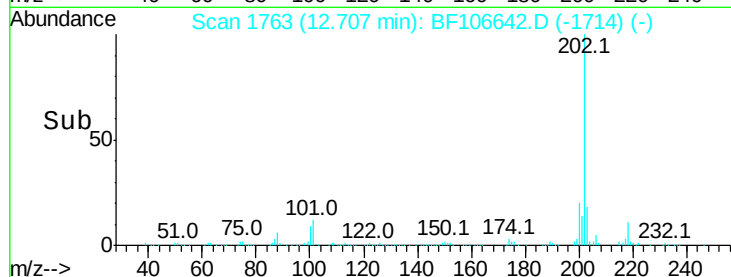
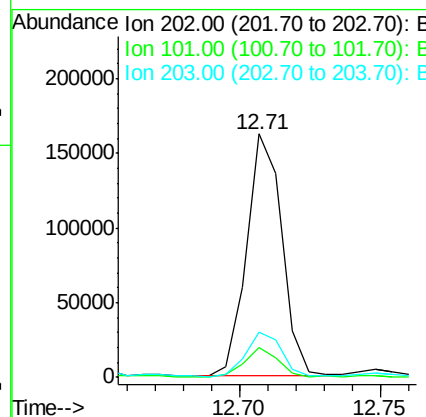
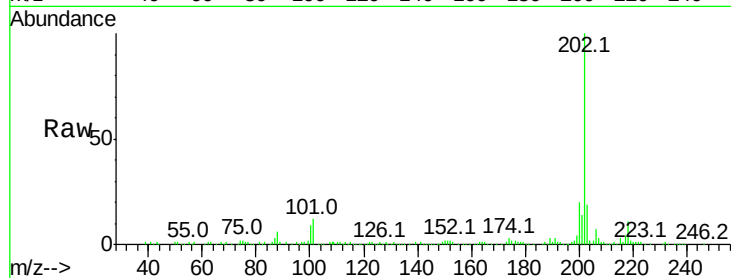
ClientSampled :

TP-12

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.5  | 0.0        | 34.1  |
| 203     | 18.7  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

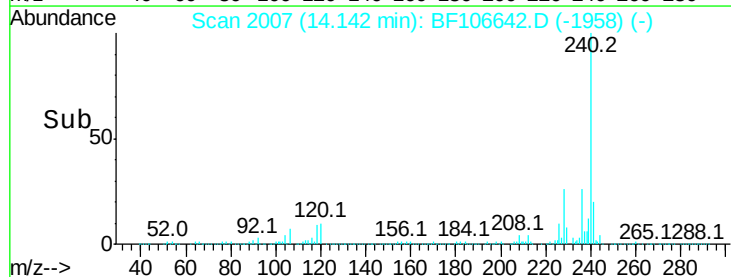
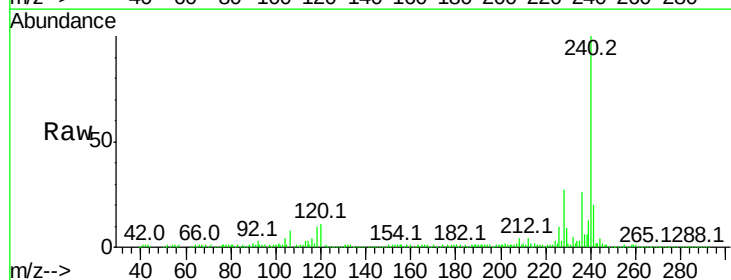
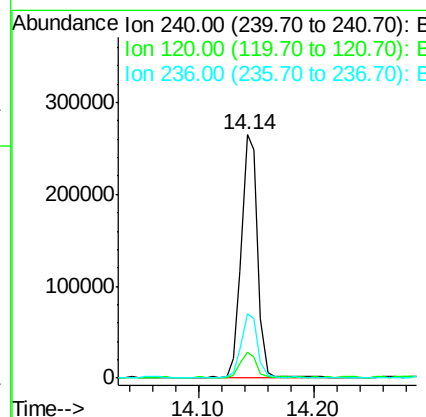
RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

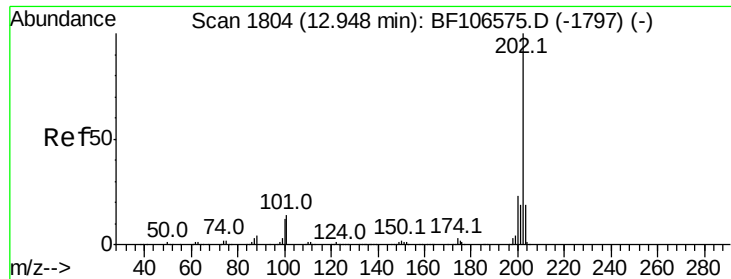
Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 10.7  | 9.5        | 14.3  |
| 236     | 26.4  | 20.7       | 31.1  |







#77

Pvrene

Concen: 18.778 ng

RT: 12.94 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

Instrument :

BNA\_F

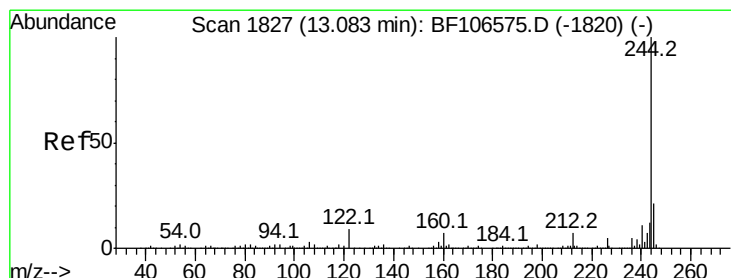
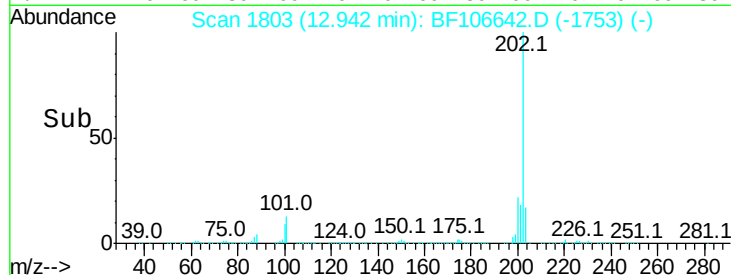
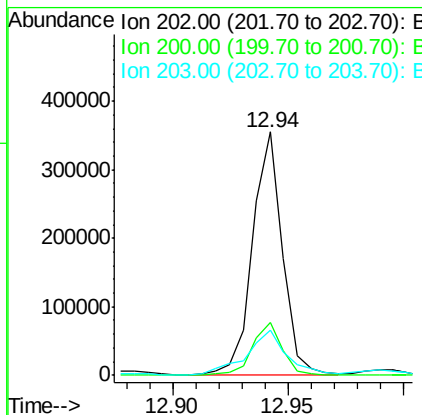
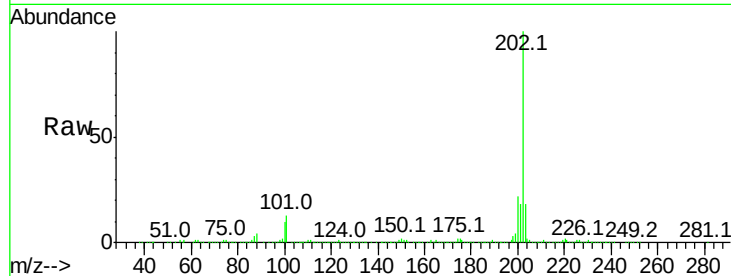
ClientSampleId :

TP-12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 318585 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.8  | 17.4  | 26.2   |
| 203       | 18.4  | 14.3  | 21.5   |

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#78

Terphenyl-d14

Concen: 14.262 ng

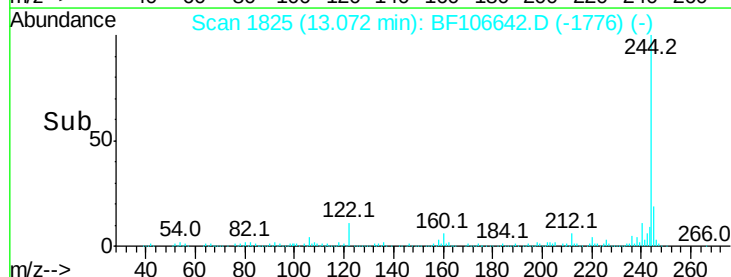
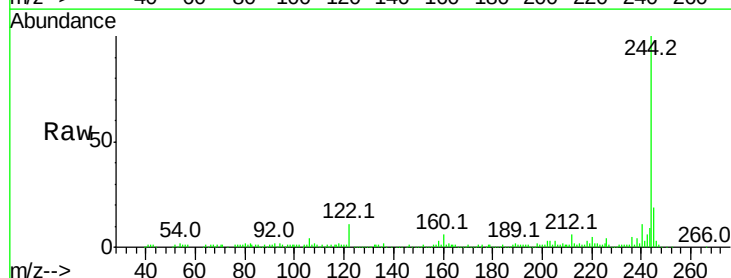
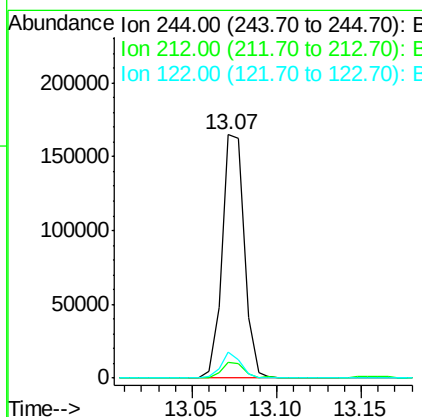
RT: 13.07 min Scan# 1825

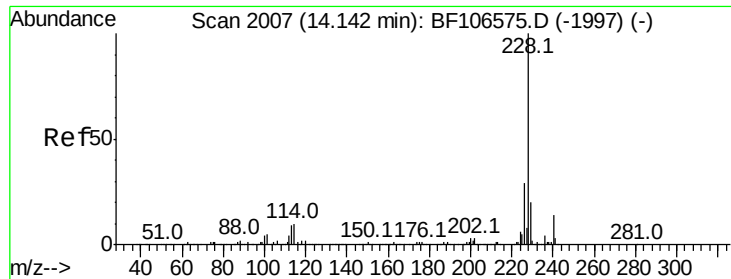
Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 151483 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.4   | 5.4   | 8.0    |
| 122       | 10.7  | 11.0  | 16.4#  |





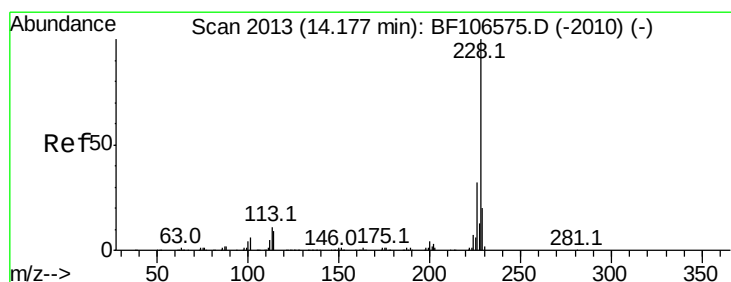
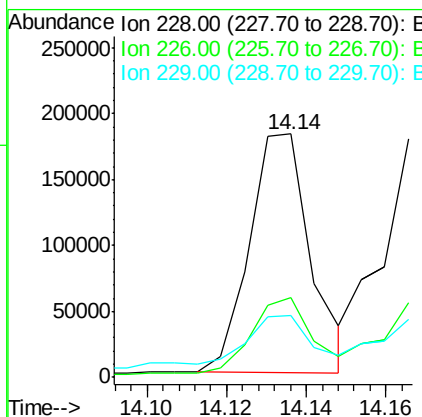
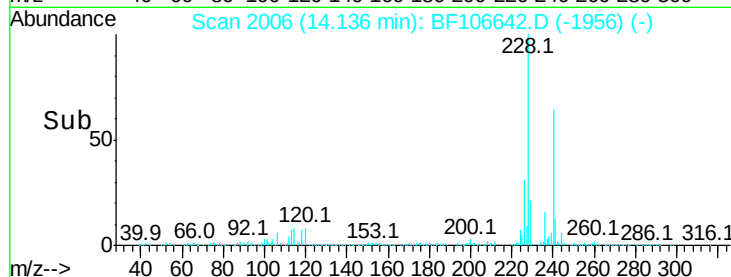
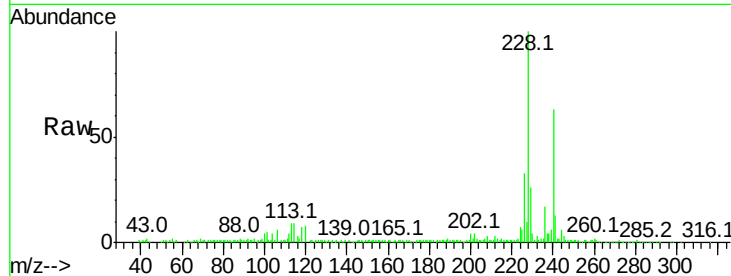
#80  
Benzo(a)anthracene  
Concen: 12.426 ng m  
RT: 14.14 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

Instrument :  
BNA\_F  
ClientSampled :  
TP-12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.9  | 22.6  | 33.8  |
| 229     | 25.6  | 15.8  | 23.6  |

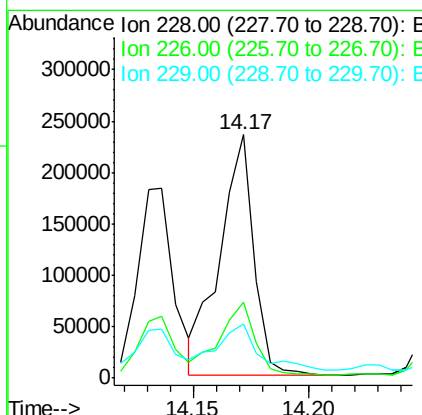
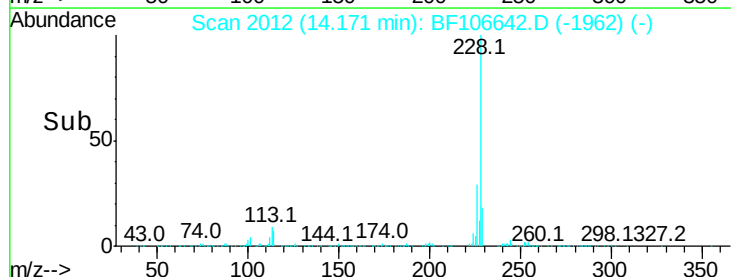
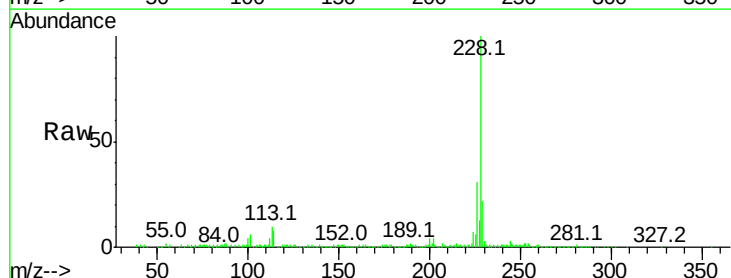
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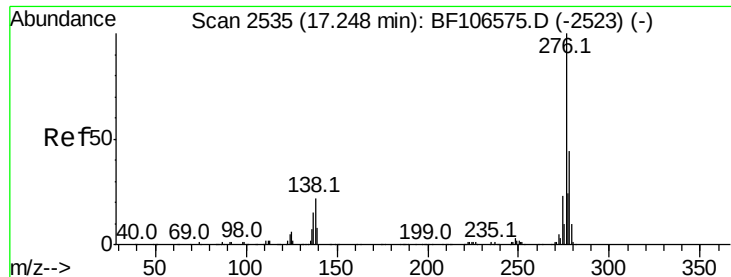
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#82  
Chrysene  
Concen: 16.553 ng  
RT: 14.17 min Scan# 2012  
Delta R.T. -0.01 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.1  | 25.0  | 37.6  |
| 229     | 22.3  | 16.2  | 24.4  |





#85

Indeno(1,2,3-cd)pyrene

Concen: 6.785 ng

RT: 17.24 min Scan# 2534

Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

Instrument :

BNA\_F

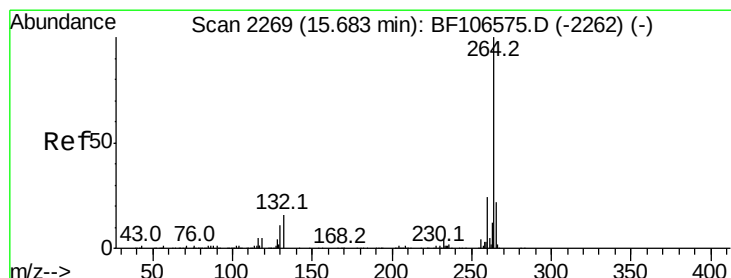
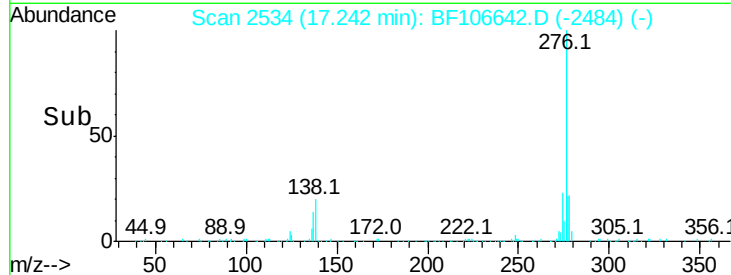
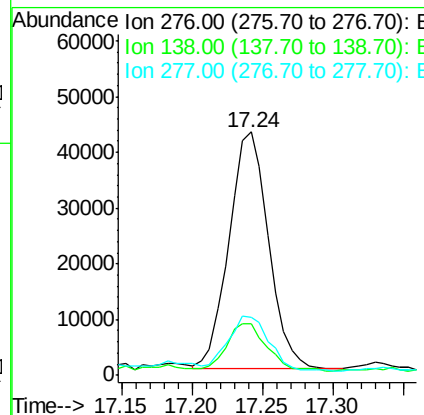
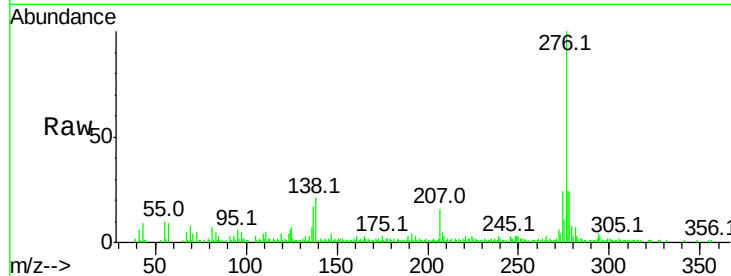
ClientSampled :

TP-12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 83061 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 20.5  | 25.0  | 37.6# |
| 277       | 24.0  | 20.1  | 30.1  |

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#86

Perylene-d12

Concen: 20.000 ng

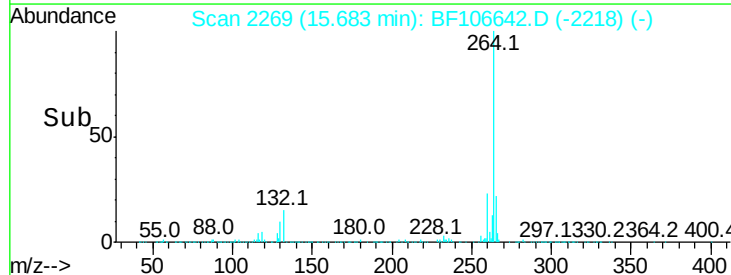
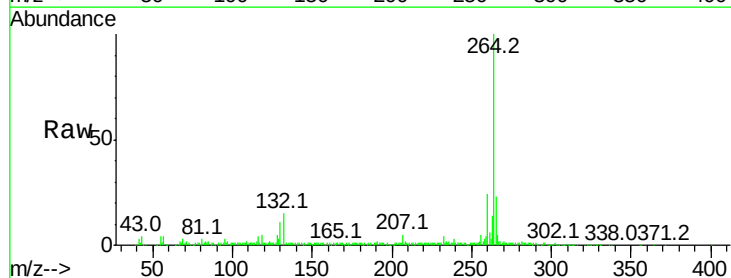
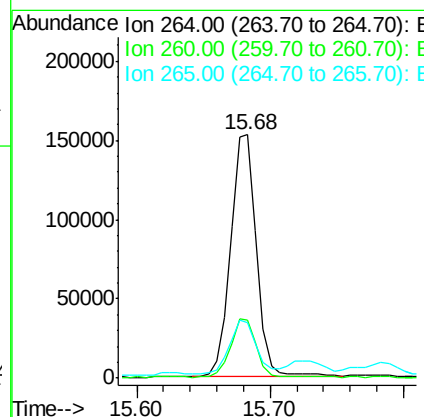
RT: 15.68 min Scan# 2269

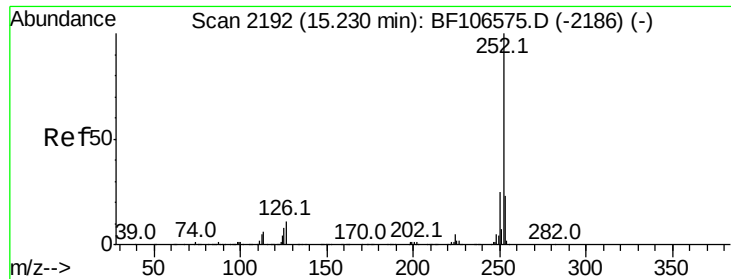
Delta R.T. 0.00 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 209019 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.6  | 19.2  | 28.8   |
| 265       | 22.7  | 17.5  | 26.3   |





#87

Benzo(b)fluoranthene

Concen: 15.741 ng m

RT: 15.22 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

Instrument :

BNA\_F

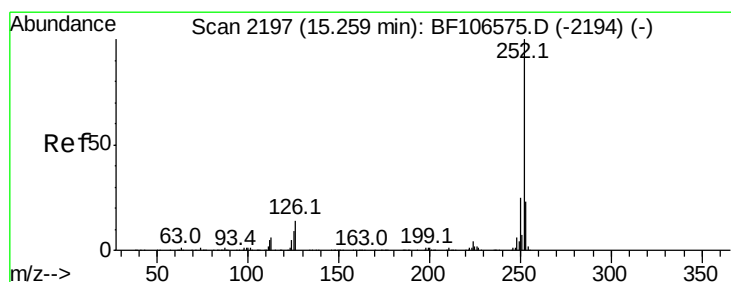
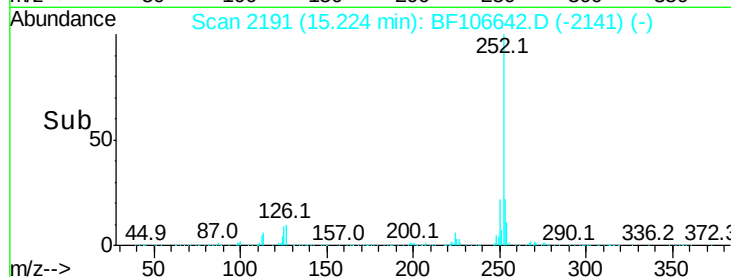
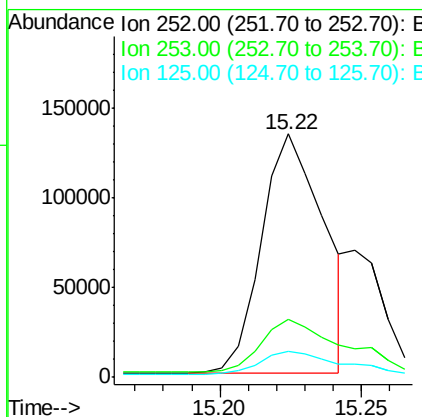
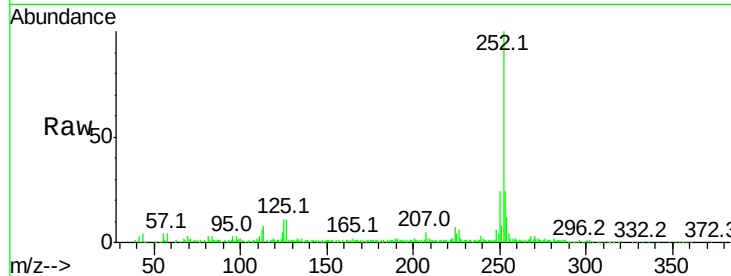
ClientSampled :

TP-12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 204384 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.6  | 17.0  | 25.6   |
| 125       | 10.5  | 9.0   | 13.6   |

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#88

Benzo(k)fluoranthene

Concen: 4.856 ng m

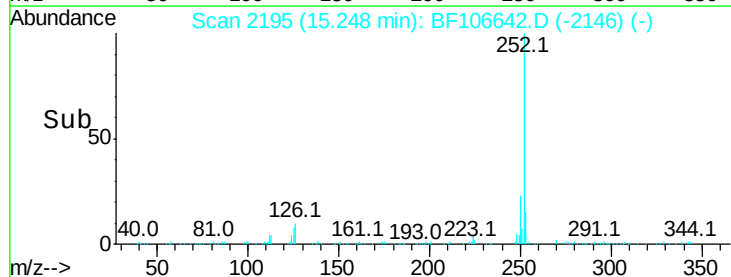
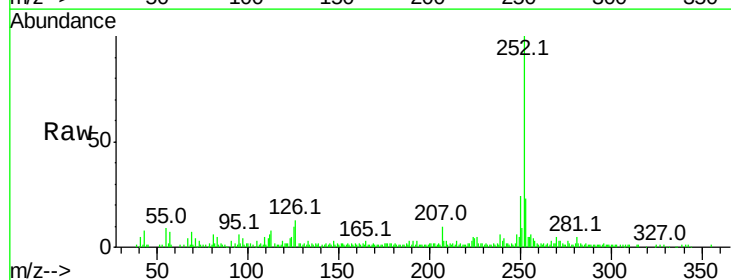
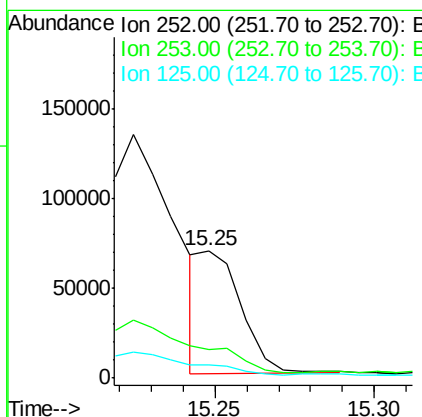
RT: 15.25 min Scan# 2195

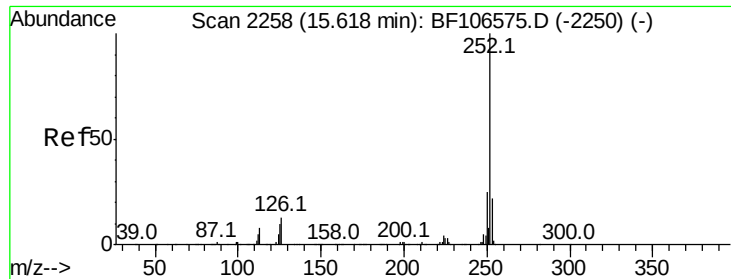
Delta R.T. -0.01 min

Lab File: BF106642.D

Acq: 21 Jun 2018 1:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 60038 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.8  | 17.9  | 26.9  |
| 125       | 10.5  | 10.2  | 15.2  |





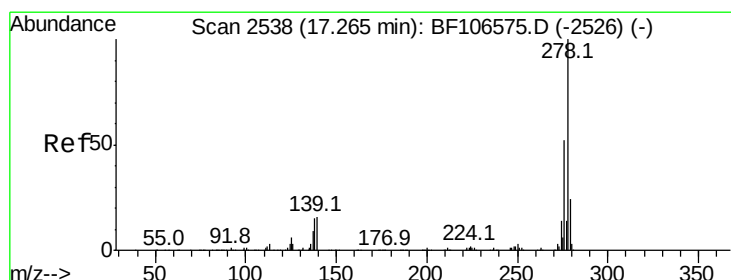
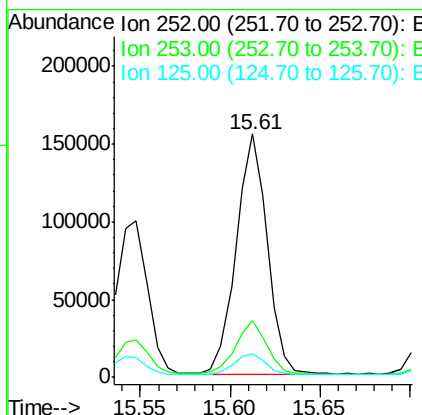
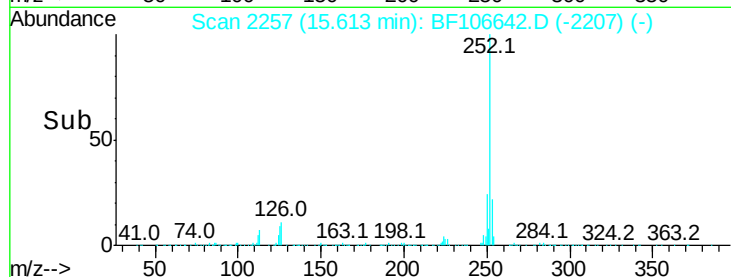
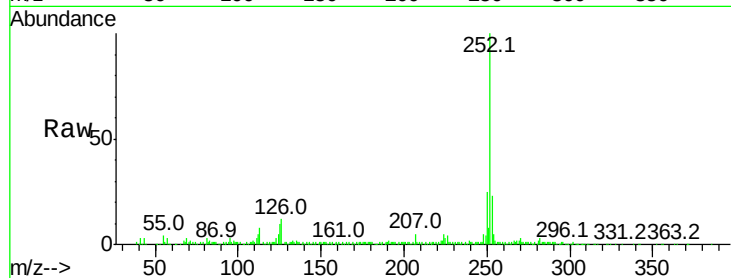
#89  
Benzo(a)pyrene  
Concen: 16.164 ng/ml  
RT: 15.61 min Scan# 2257  
Delta R.T. -0.01 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

Instrument :  
BNA\_F  
ClientSampled :  
TP-12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.1  | 25.7  |
| 125     | 9.6   | 9.8   | 14.6  |

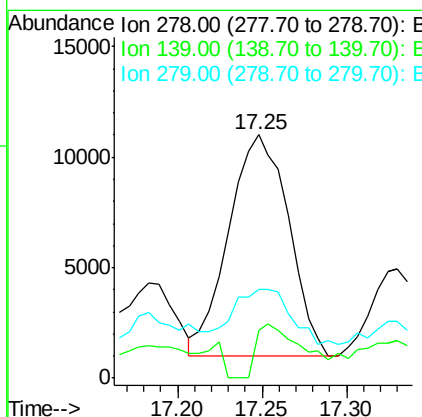
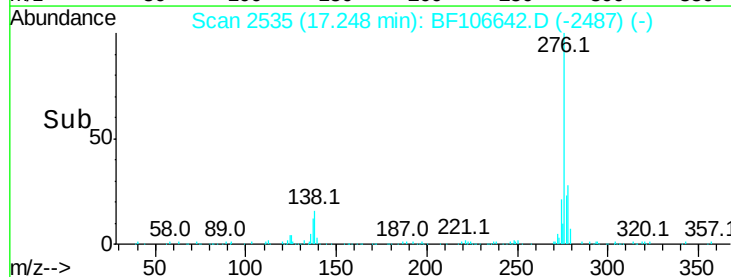
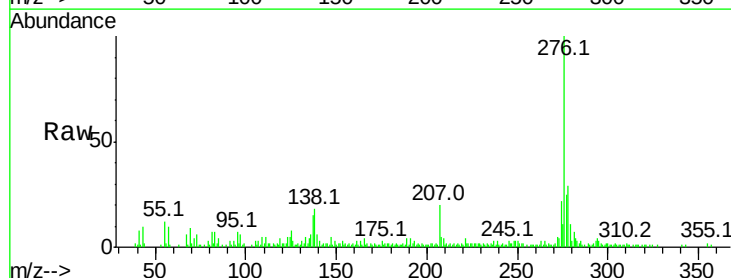
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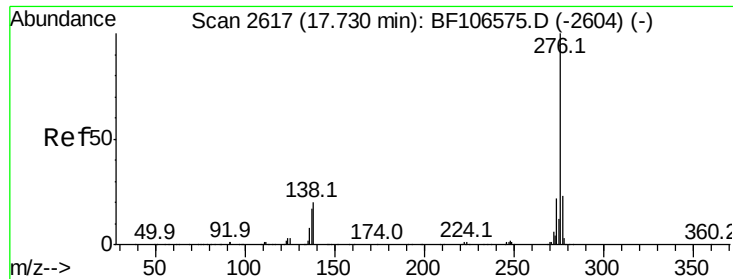
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#90  
Dibenzo(a,h)anthracene  
Concen: 2.504 ng  
RT: 17.25 min Scan# 2535  
Delta R.T. -0.02 min  
Lab File: BF106642.D  
Acq: 21 Jun 2018 1:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 19.8  | 15.9  | 23.9  |
| 279     | 36.3  | 19.0  | 28.4  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 9.752 ng/ml  
 RT: 17.72 min Scan# 2615  
 Delta R.T. -0.01 min  
 Lab File: BF106642.D  
 Acq: 21 Jun 2018 1:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.6  | 17.9  | 26.9  |
| 138     | 20.6  | 21.8  | 32.8  |

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