

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\  
 Data File : BF107307.D  
 Acq On : 11 Jul 2018 18:26  
 Operator : JU/SJ  
 Sample : J3914-01 2X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B1

Manual Integrations  
 APPROVED

Sohil  
 7/12/2018 2:19:33 PM

Quant Time: Jul 12 02:15:03 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 11 16:39:37 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.93  | 152  | 62415    | 20.00   | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.22  | 136  | 227811   | 20.00   | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.98  | 164  | 101296   | 20.00   | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.48 | 188  | 191889   | 20.00   | ng    | 0.00     |
| 75) Chrysene-d12            | 14.16 | 240  | 181481   | 20.00   | ng    | 0.02     |
| 86) Perylene-d12            | 15.74 | 264  | 115671   | 20.00   | ng    | 0.06     |
| System Monitoring Compounds |       |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.57  | 112  | 183614   | 49.81   | ng    | 0.00     |
| 7) Phenol-d6                | 6.59  | 99   | 226893   | 49.29   | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.50  | 82   | 135161   | 32.97   | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.78 | 330  | 53749    | 45.78   | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.29  | 172  | 236258   | 29.92   | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.07 | 244  | 248231   | 33.13   | ng    | 0.00     |
| Target Compounds            |       |      |          |         |       |          |
| 49) Dimethylphthalate       | 9.68  | 163  | 47186    | 6.211   | ng    | 98       |
| 67) Hexachlorobenzene       | 11.10 | 284  | 975757   | 407.092 | ng    | # 85     |
| 70) Phenanthrene            | 11.51 | 178  | 179707   | 19.417  | ng    | 98       |
| 71) Anthracene              | 11.56 | 178  | 27298    | 2.890   | ng    | 99       |
| 72) Carbazole               | 11.72 | 167  | 18434    | 2.084   | ng    | 97       |
| 74) Fluoranthene            | 12.71 | 202  | 301576   | 29.563  | ng    | 94       |
| 77) Pyrene                  | 12.94 | 202  | 258091   | 21.566  | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.15 | 228  | 128563   | 11.623  | ng    | 98       |
| 82) Chrysene                | 14.19 | 228  | 136874   | 13.451  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.34 | 276  | 57974m   | 6.713   | ng    |          |
| 87) Benzo(b)fluoranthene    | 15.28 | 252  | 132741m  | 18.474  | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.30 | 252  | 43563m   | 6.366   | ng    |          |
| 89) Benzo(a)pyrene          | 15.67 | 252  | 87452    | 13.691  | ng    | 96       |
| 90) Dibenzo(a,h)anthracene  | 17.34 | 278  | 15274    | 2.821   | ng    | # 85     |
| 91) Benzo(a,h,i)perylene    | 17.84 | 276  | 56224    | 10.626  | ng    | # 88     |

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

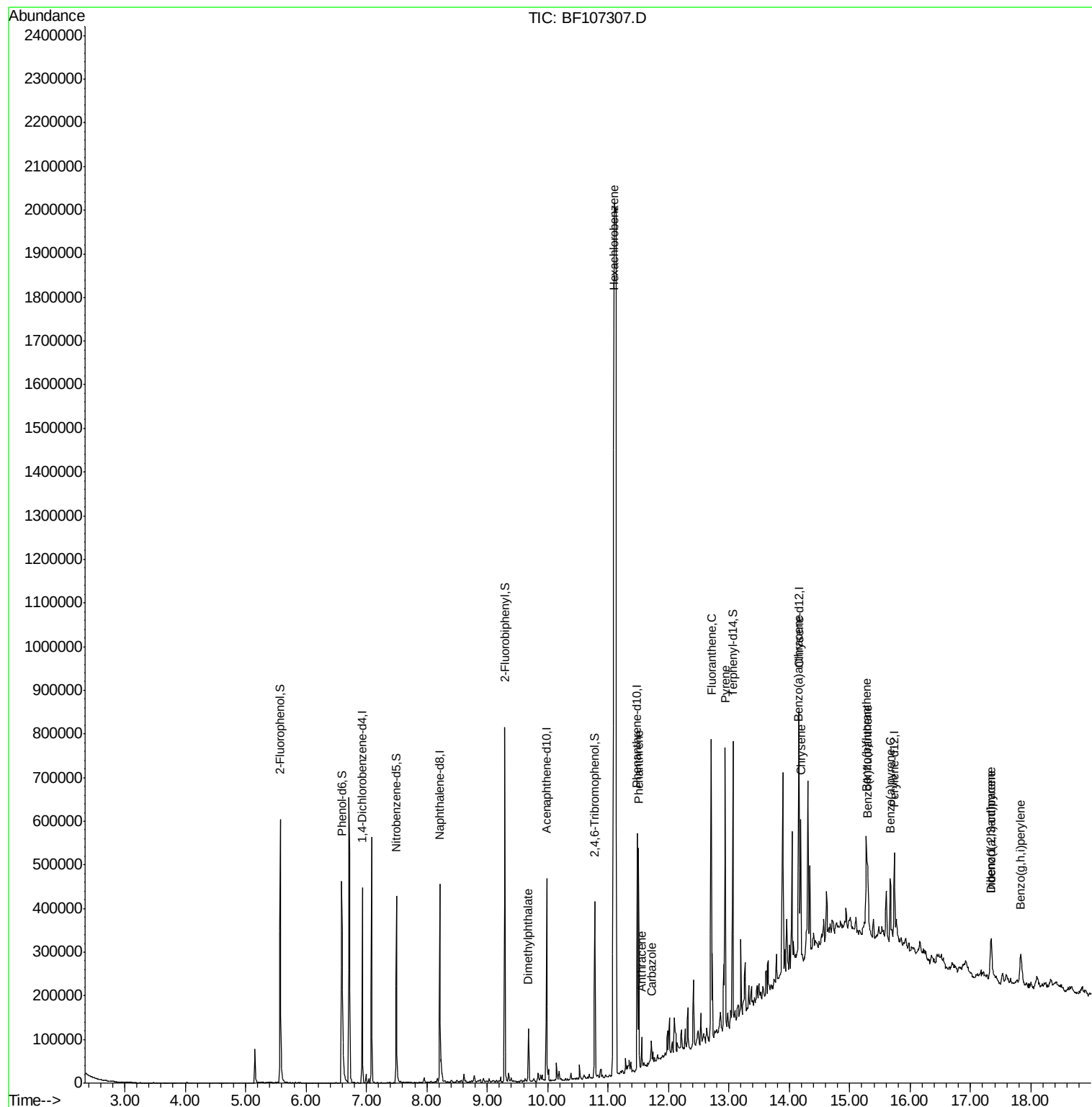
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\  
Data File : BF107307.D  
Acq On : 11 Jul 2018 18:26  
Operator : JU/SJ  
Sample : J3914-01 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

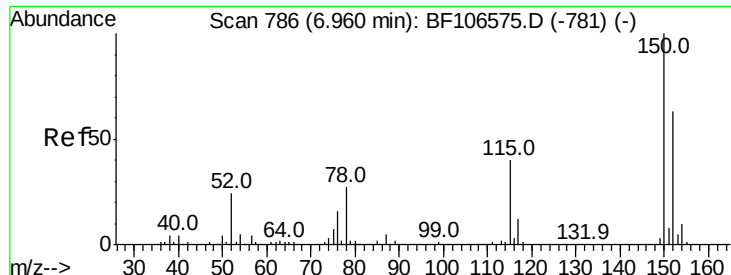
Instrument :  
BNA\_F  
ClientSampleId :  
B1

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7/12/2018 2:19:33 PM

Quant Time: Jul 12 02:15:03 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 11 16:39:37 2018  
Response via : Initial Calibration





#1

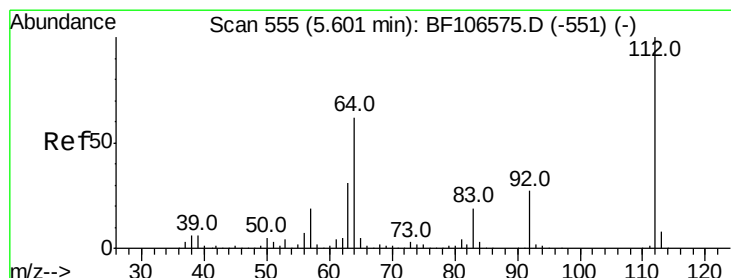
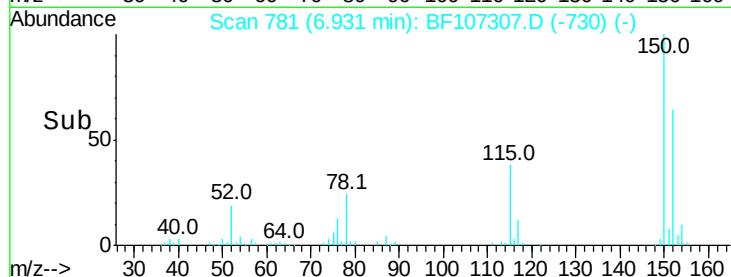
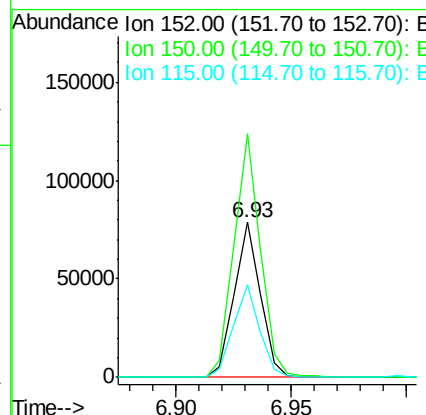
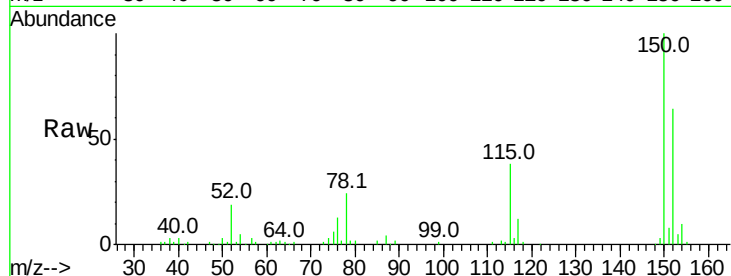
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.93 min Scan# 781  
Delta R.T. 0.00 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

Instrument :  
BNA\_F  
ClientSampled :  
B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.1 | 124.6 | 186.8 |
| 115     | 59.3  | 50.1  | 75.1  |

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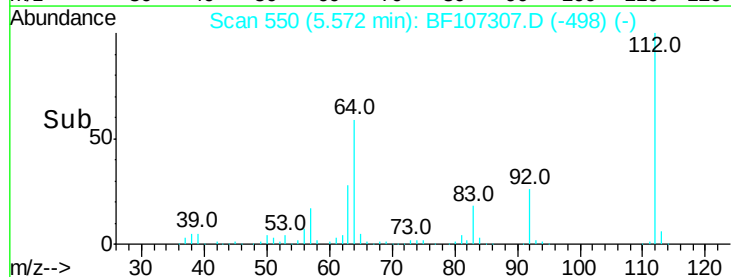
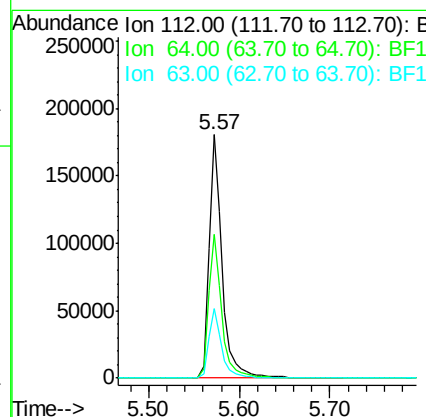
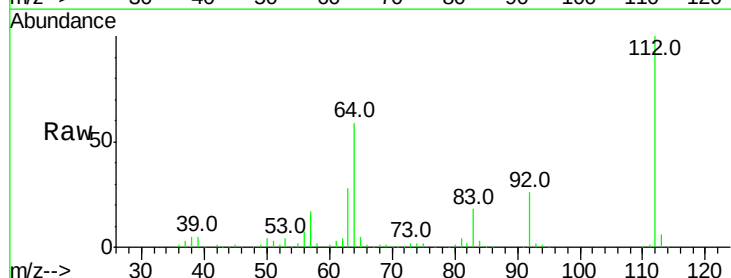
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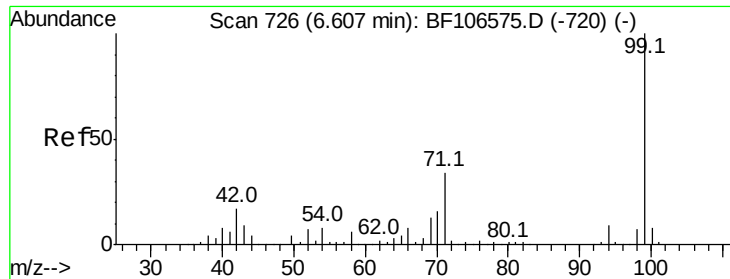


#5

2-Fluorophenol  
Concen: 49.814 ng  
RT: 5.57 min Scan# 550  
Delta R.T. 0.01 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.8  | 47.9  | 71.9  |
| 63      | 28.4  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 49.292 ng

RT: 6.59 min Scan# 723

Delta R.T. 0.01 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

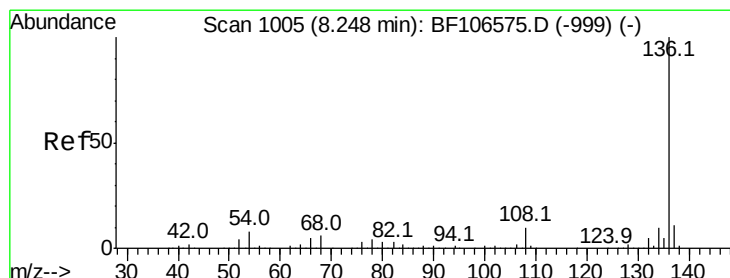
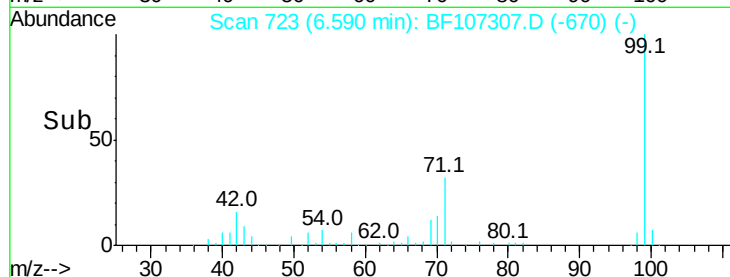
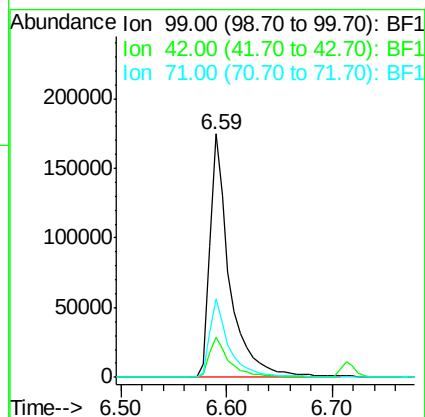
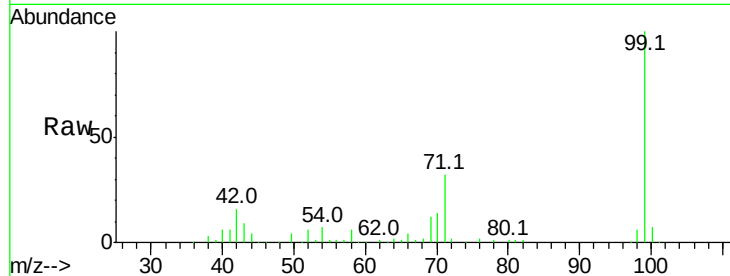
ClientSampled :

B1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 226893 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.2  | 14.5  | 21.7   |
| 71        | 32.1  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

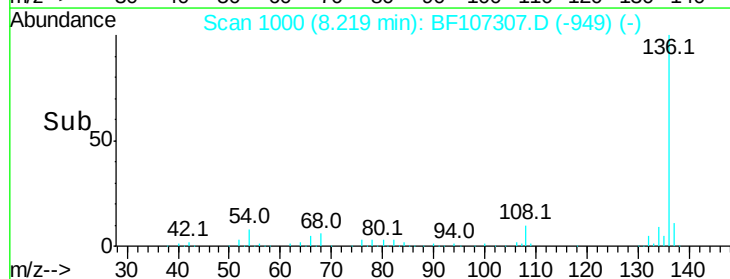
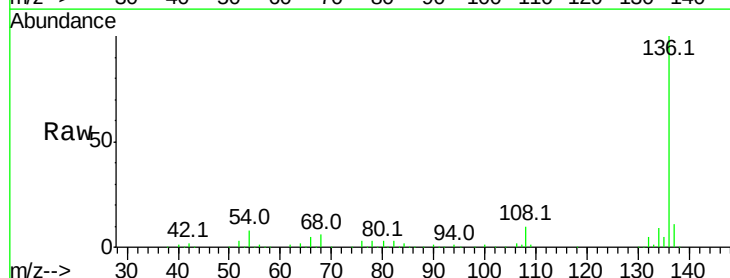
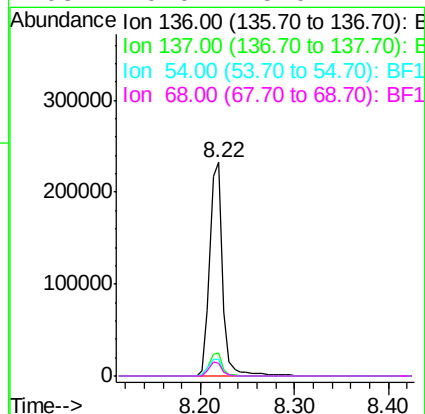
RT: 8.22 min Scan# 1000

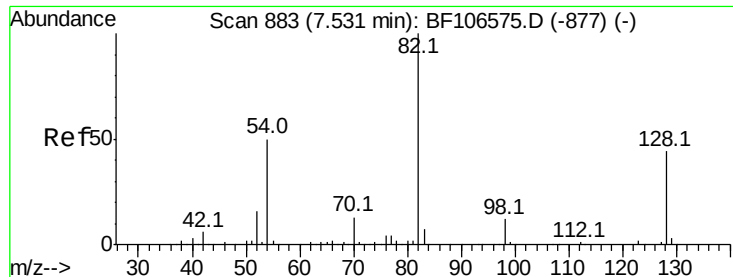
Delta R.T. 0.00 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 227811 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 8.9   | 13.3   |
| 54        | 7.5   | 6.6   | 9.8    |
| 68        | 6.0   | 5.0   | 7.4    |





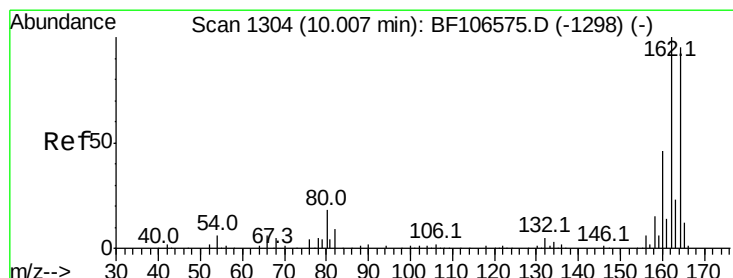
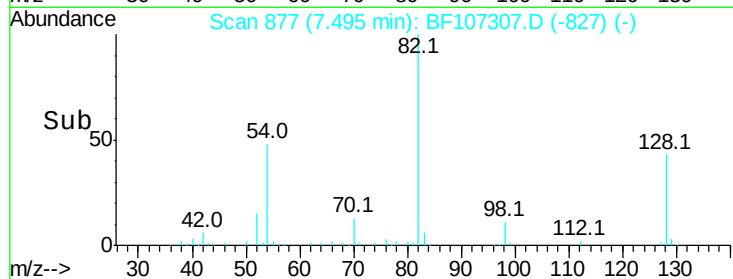
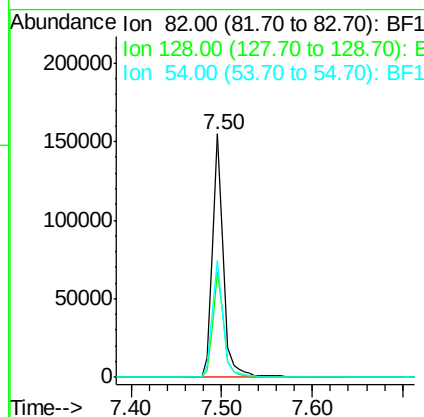
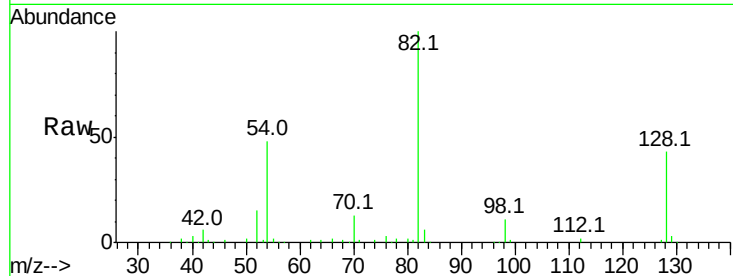
#23  
 Nitrobenzene-d5  
 Concen: 32.972 ng  
 RT: 7.50 min Scan# 877  
 Delta R.T. -0.01 min  
 Lab File: BF107307.D  
 Acq: 11 Jul 2018 18:26

Instrument :  
 BNA\_F  
 ClientSampled :  
 B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.4  | 36.1  | 54.1  |
| 54      | 47.8  | 41.4  | 62.2  |

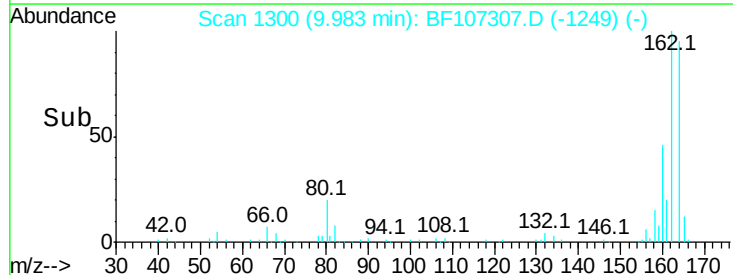
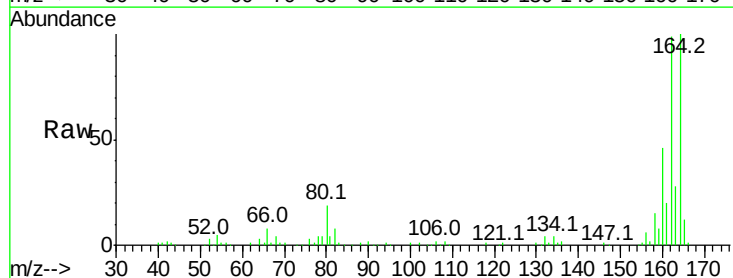
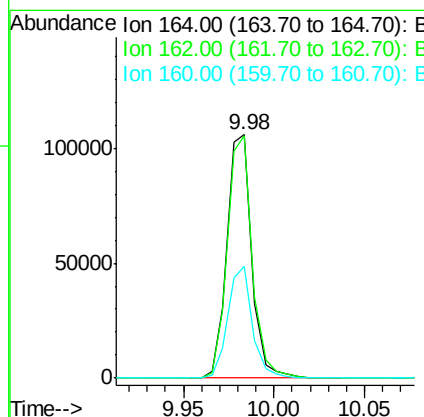
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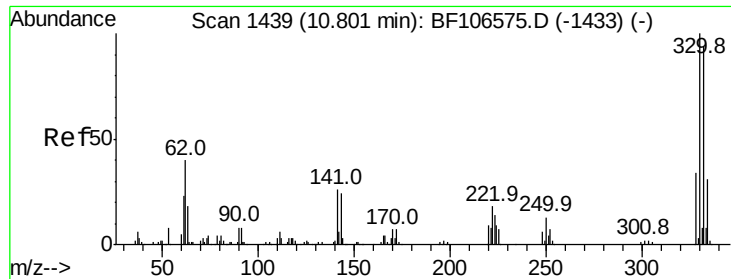
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 7/12/2018 2:19:33 PM



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.98 min Scan# 1300  
 Delta R.T. 0.00 min  
 Lab File: BF107307.D  
 Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.4  | 86.1  | 129.1 |
| 160     | 45.7  | 38.3  | 57.5  |





#41

2,4,6-Tribromophenol

Concen: 45.781 ng

RT: 10.78 min Scan# 1435

Delta R.T. -0.01 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

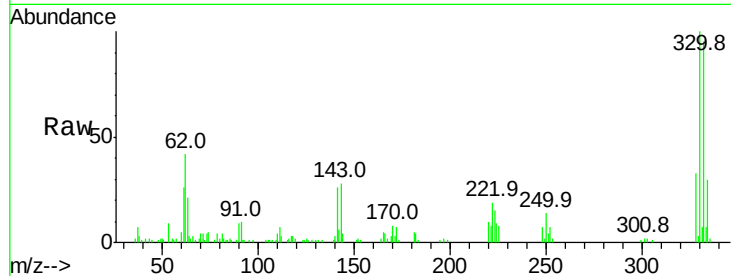
ClientSampled :

B1

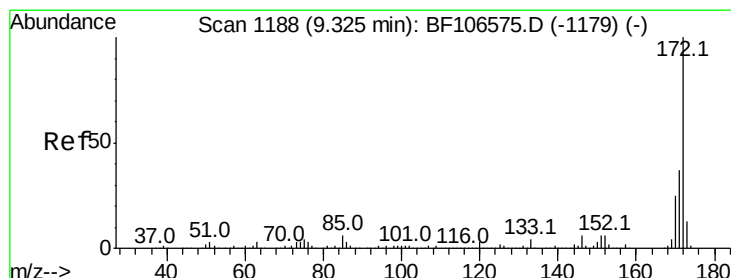
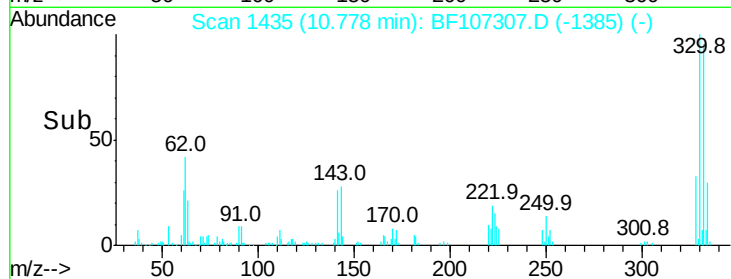
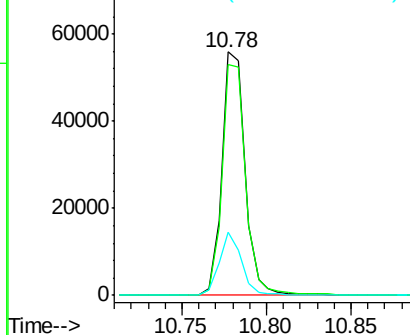
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.5  | 77.0 | 115.6 |       |
| 141     | 24.7  | 29.9 | 44.9  |       |

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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: 29.919 ng

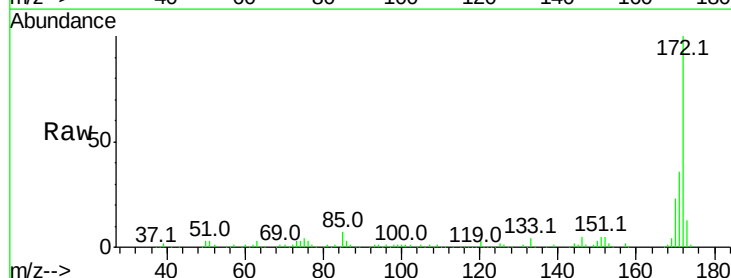
RT: 9.29 min Scan# 1182

Delta R.T. -0.01 min

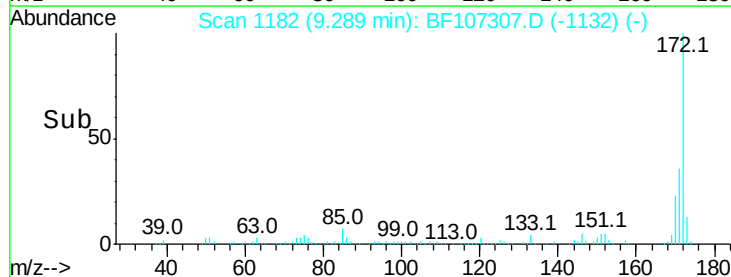
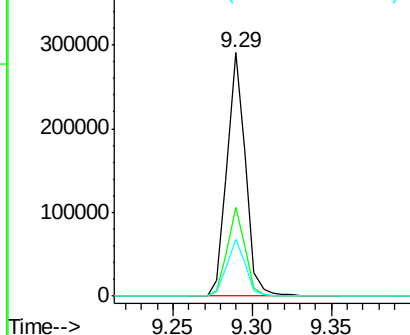
Lab File: BF107307.D

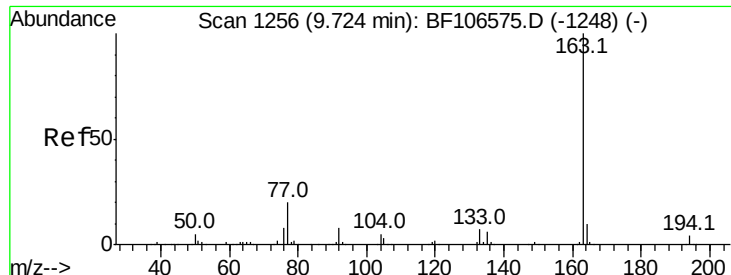
Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 36.4  | 29.7 | 44.5  |       |
| 170     | 23.3  | 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





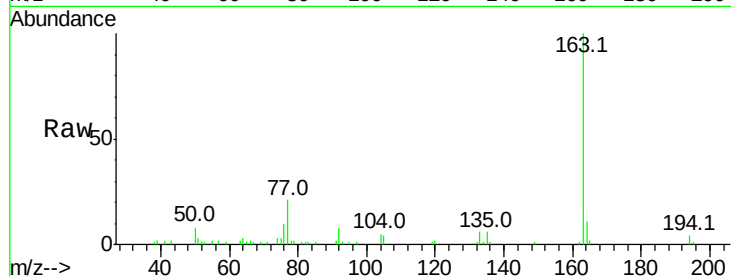
#49  
Dimethylphthalate  
Concen: 6.211 ng  
RT: 9.68 min Scan# 1249  
Delta R.T. -0.01 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
B1

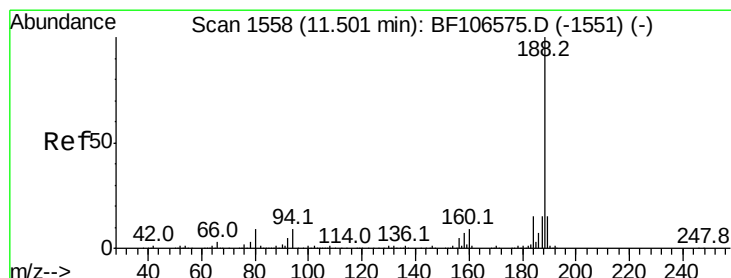
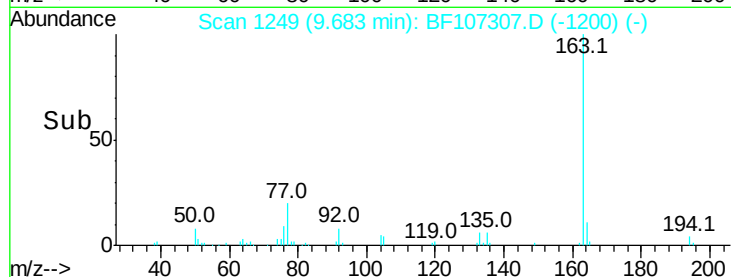
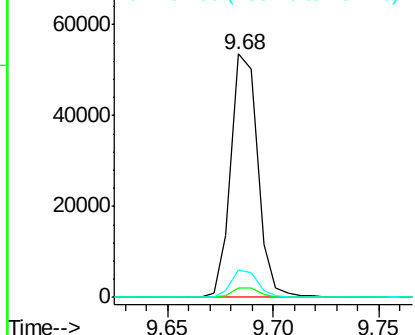
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 47186 |       |       |
| 194     | 4.1   |       | 2.7   | 4.1   |
| 164     | 11.1  |       | 8.2   | 12.2  |

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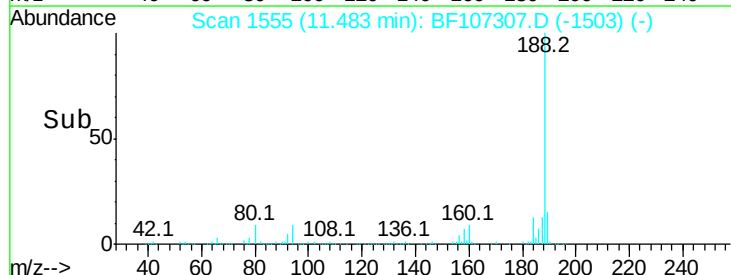
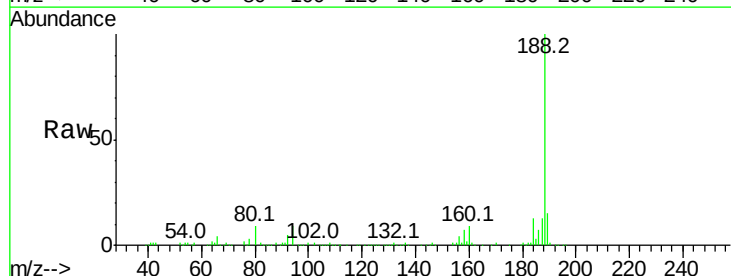
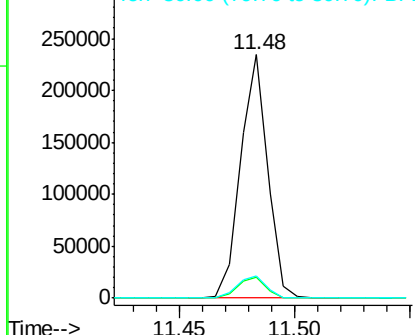
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

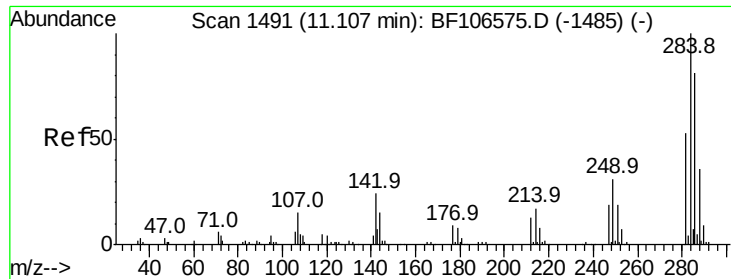


#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.48 min Scan# 1555  
Delta R.T. 0.01 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 191889 |       |       |
| 94      | 8.6   |        | 8.5   | 12.7  |
| 80      | 8.9   |        | 9.2   | 13.8# |

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





#67

Hexachlorobenzene

Concen: 407.092 ng

RT: 11.10 min Scan# 1490

Delta R.T. 0.01 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

ClientSampled :

B1

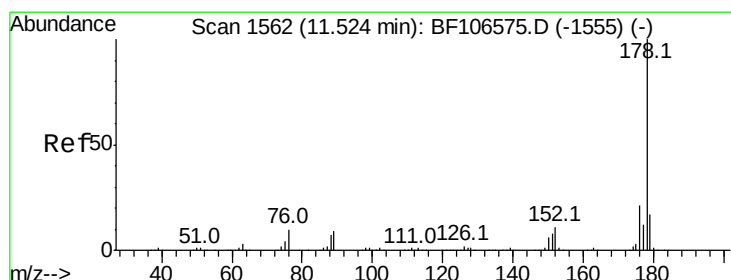
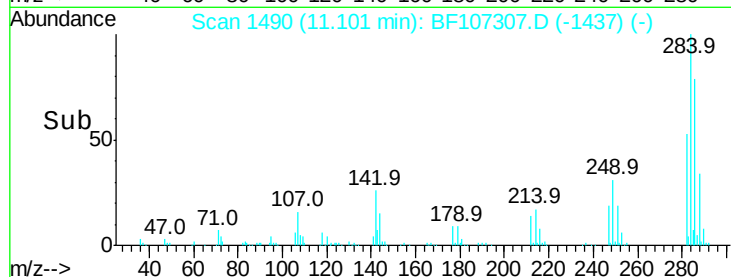
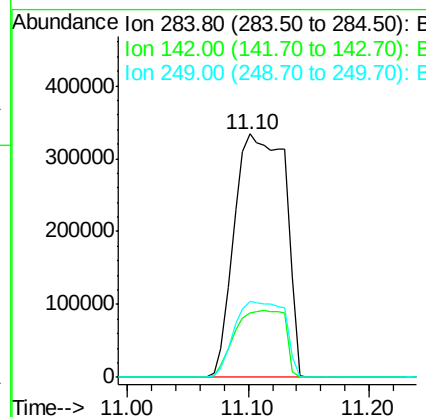
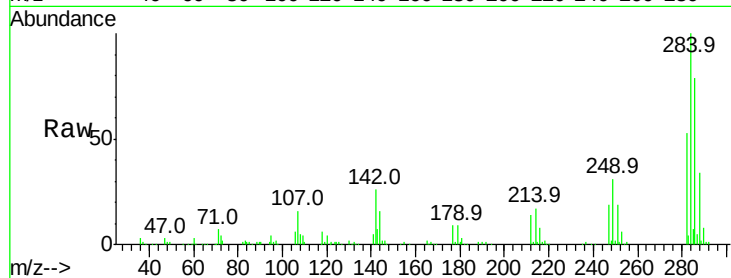
Tot Ion:284 Resp: 975757  
Ion Ratio Lower Upper

|     |      |      |       |
|-----|------|------|-------|
| 284 | 100  |      |       |
| 142 | 26.3 | 34.6 | 52.0# |
| 249 | 31.0 | 24.8 | 37.2  |

Manual Integrations  
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#70

Phenanthrene

Concen: 19.417 ng

RT: 11.51 min Scan# 1559

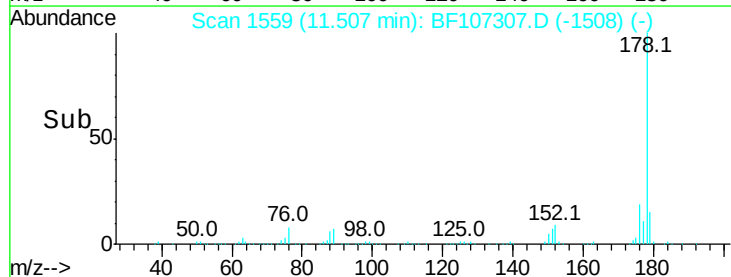
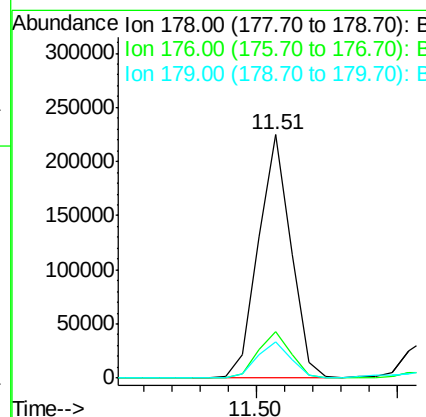
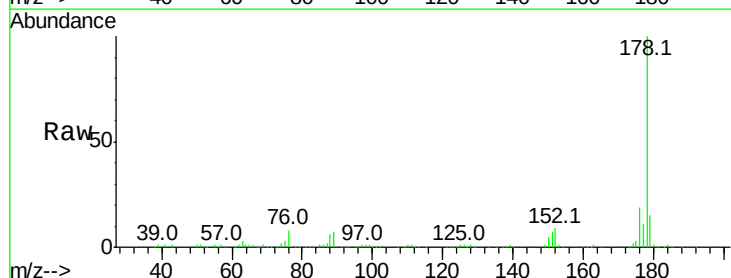
Delta R.T. 0.00 min

Lab File: BF107307.D

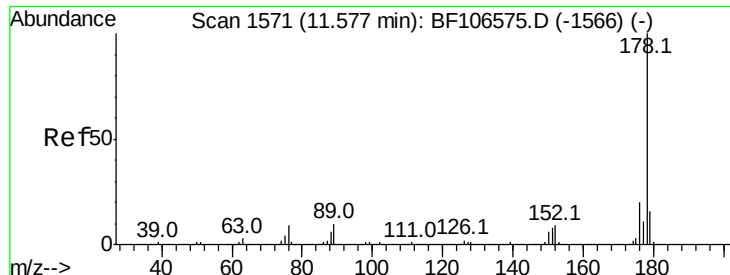
Acq: 11 Jul 2018 18:26

Tgt Ion:178 Resp: 179707  
Ion Ratio Lower Upper

|     |      |      |      |
|-----|------|------|------|
| 178 | 100  |      |      |
| 176 | 19.1 | 15.8 | 23.8 |
| 179 | 14.8 | 13.0 | 19.6 |







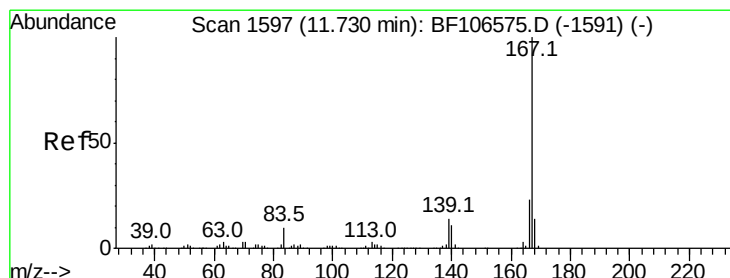
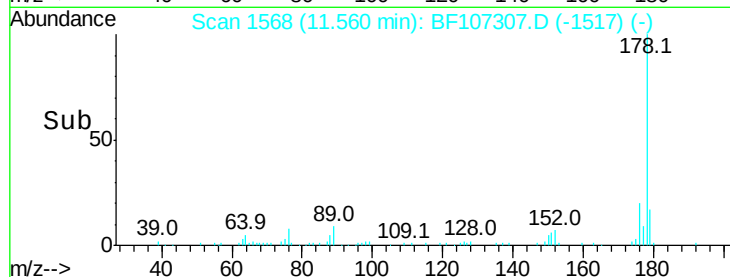
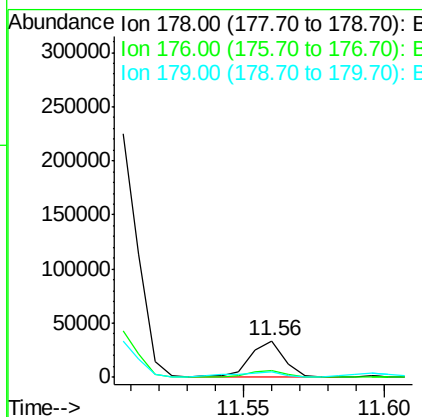
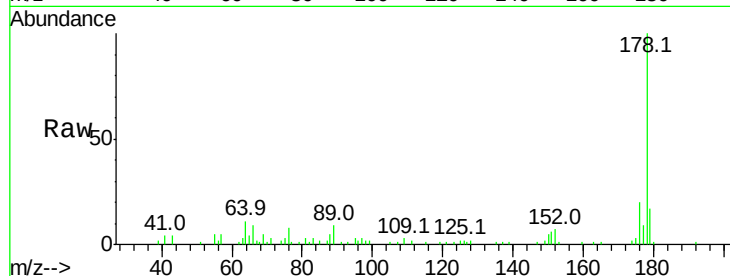
#71  
 Anthracene  
 Concen: 2.890 ng  
 RT: 11.56 min Scan# 1568  
 Delta R.T. 0.00 min  
 Lab File: BF107307.D  
 Acq: 11 Jul 2018 18:26

Instrument :  
 BNA\_F  
 ClientSampled :  
 B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.4  | 23.2  |
| 179     | 16.5  | 12.6  | 19.0  |

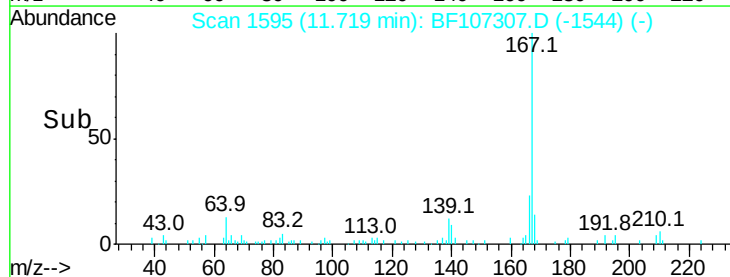
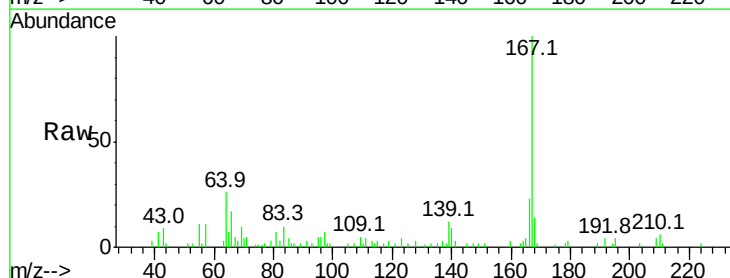
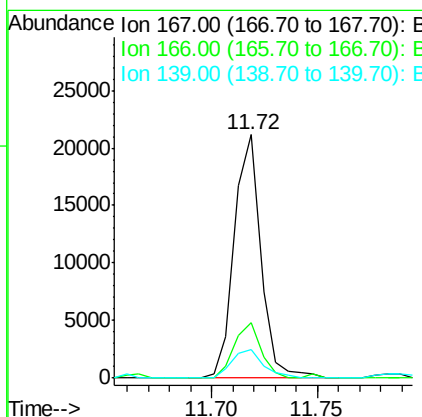
Manual Integrations  
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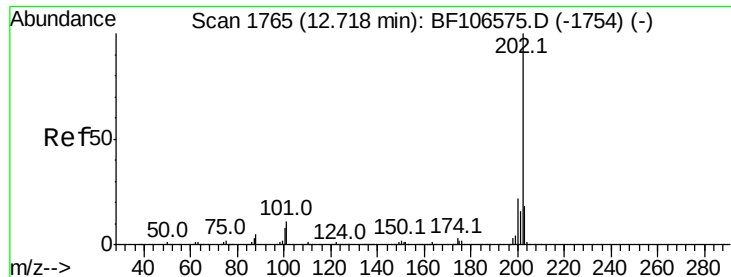
Sohil  
 7/12/2018 2:19:33 PM



#72  
 Carbazole  
 Concen: 2.084 ng  
 RT: 11.72 min Scan# 1595  
 Delta R.T. 0.00 min  
 Lab File: BF107307.D  
 Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.9  | 17.6  | 26.4  |
| 139     | 11.9  | 10.9  | 16.3  |





#74

Fluoranthene

Concen: 29.563 ng

RT: 12.71 min Scan# 1763

Delta R.T. 0.01 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

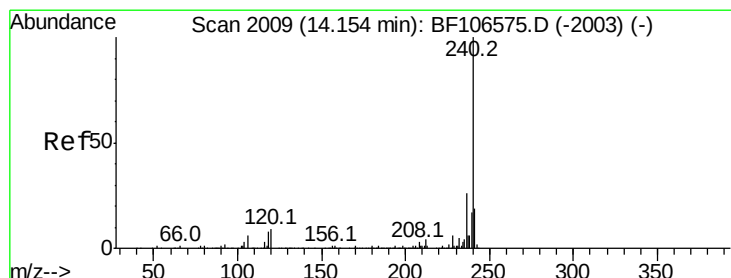
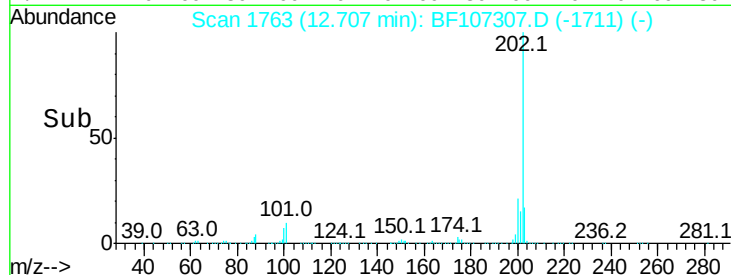
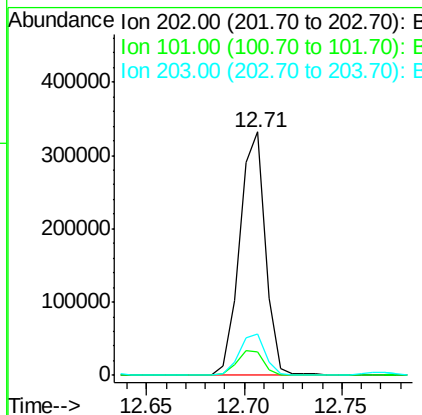
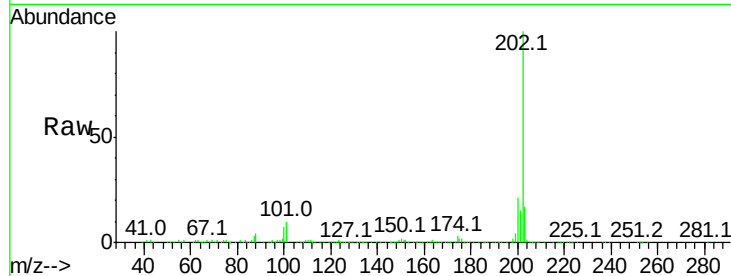
ClientSampled :

B1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 9.8   | 0.0        | 34.1  |
| 203     | 16.9  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

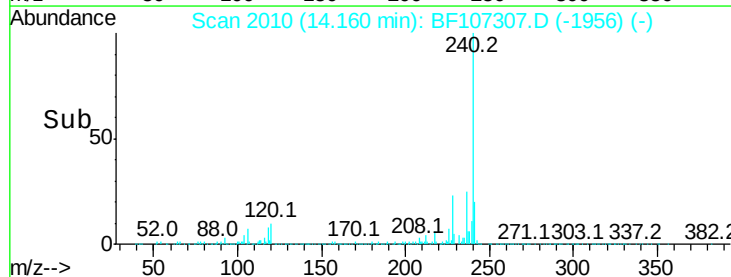
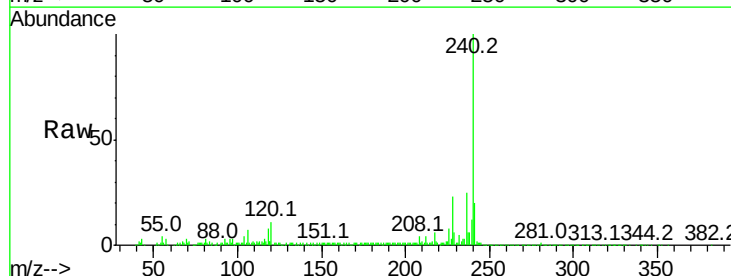
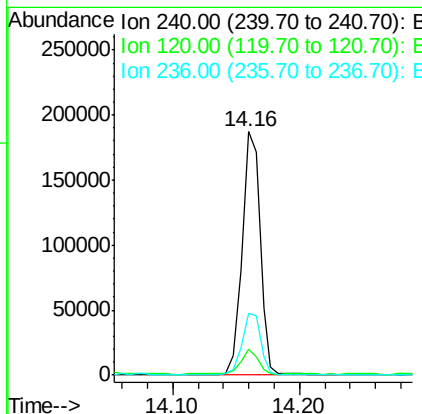
RT: 14.16 min Scan# 2010

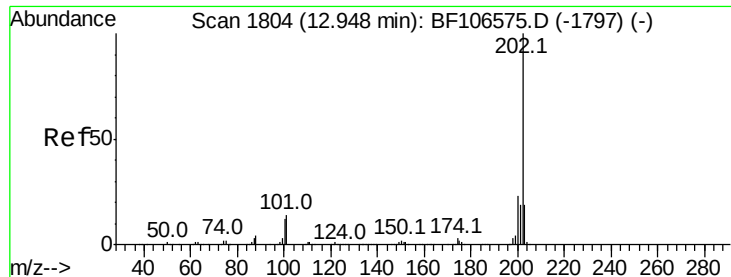
Delta R.T. 0.02 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 10.5  | 9.5        | 14.3  |
| 236     | 25.3  | 20.7       | 31.1  |





#77

Pvrene

Concen: 21.566 ng

RT: 12.94 min Scan# 1802

Delta R.T. 0.00 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

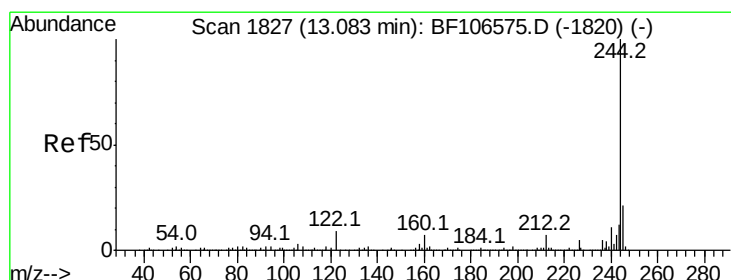
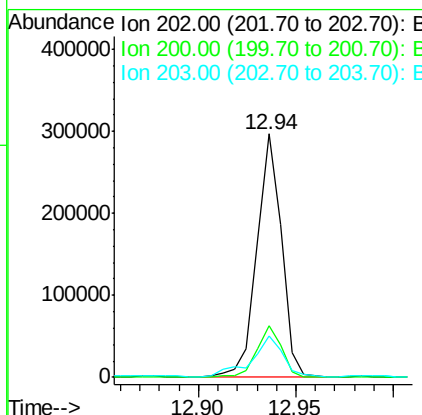
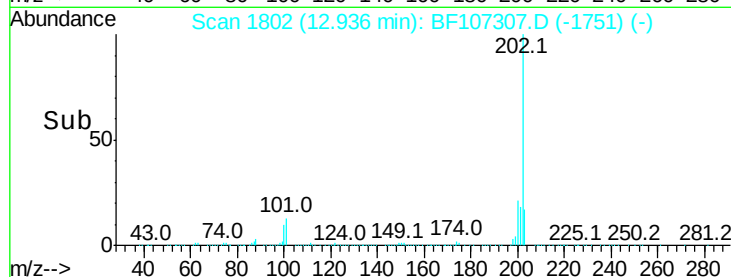
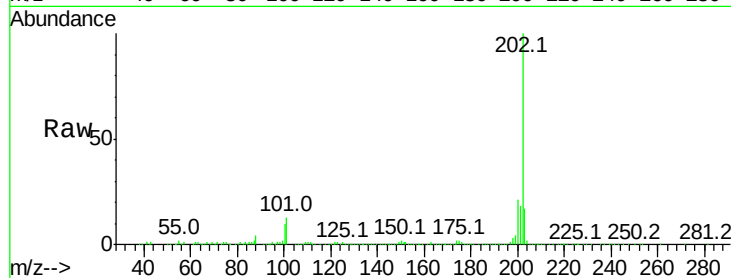
ClientSampled :

B1

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 258091 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 200       | 21.2 | 17.4  | 26.2   |
| 203       | 17.0 | 14.3  | 21.5   |

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#78

Terphenyl-d14

Concen: 33.132 ng

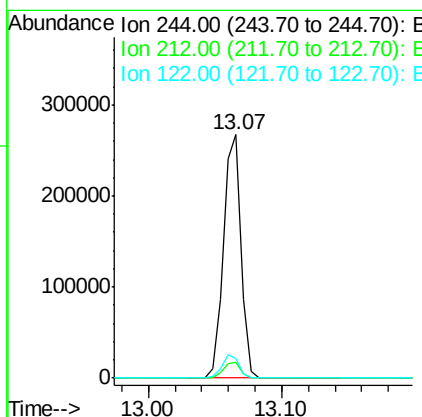
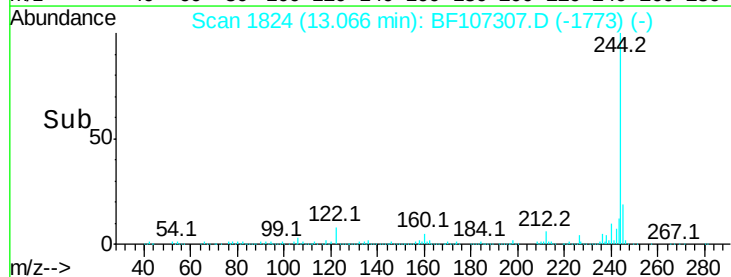
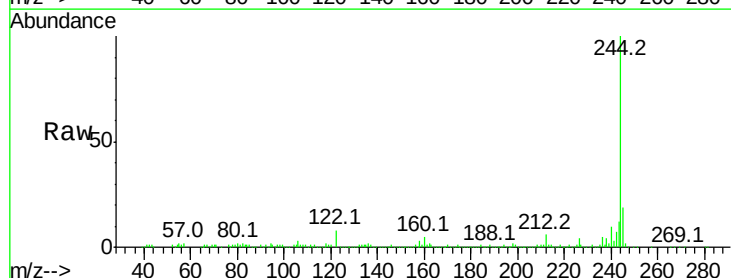
RT: 13.07 min Scan# 1824

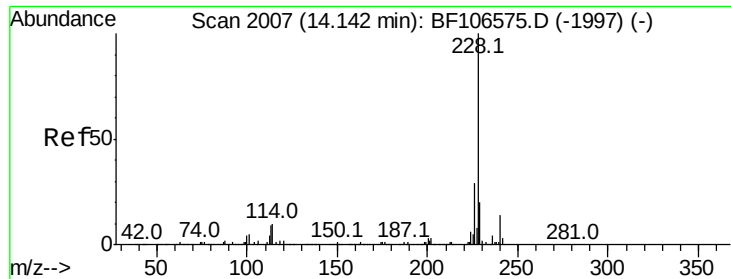
Delta R.T. 0.00 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 244 | Resp: | 248231 |
| Ion Ratio |     | Lower | Upper  |
| 244       | 100 |       |        |
| 212       | 6.4 | 5.4   | 8.0    |
| 122       | 8.1 | 11.0  | 16.4#  |





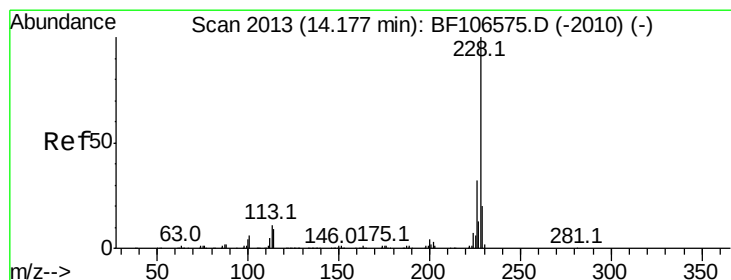
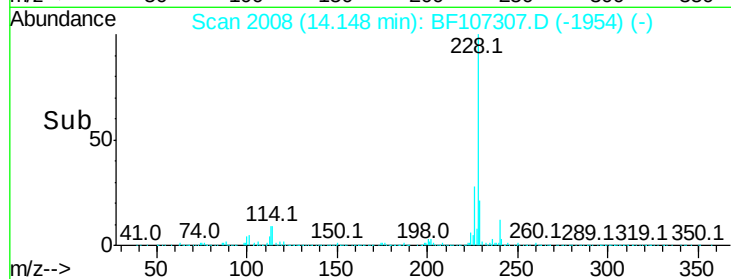
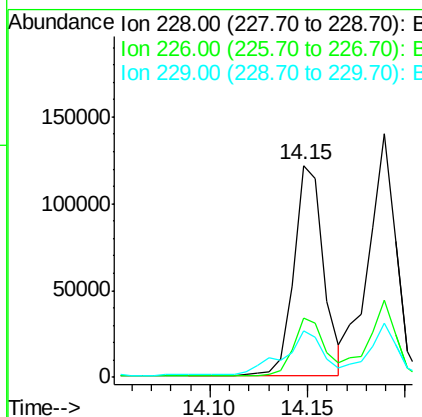
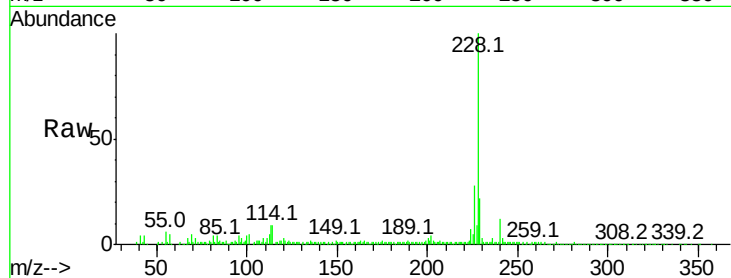
#80  
Benzo(a)anthracene  
Concen: 11.623 ng  
RT: 14.15 min Scan# 2008  
Delta R.T. 0.02 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

Instrument :  
BNA\_F  
ClientSampled :  
B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.6  | 33.8  |
| 229     | 21.7  | 15.8  | 23.6  |

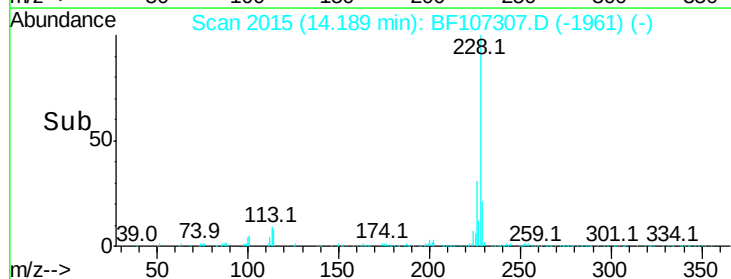
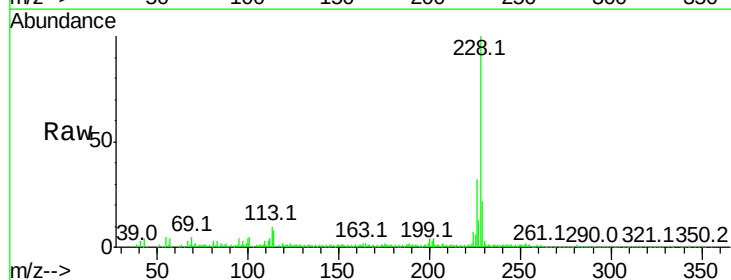
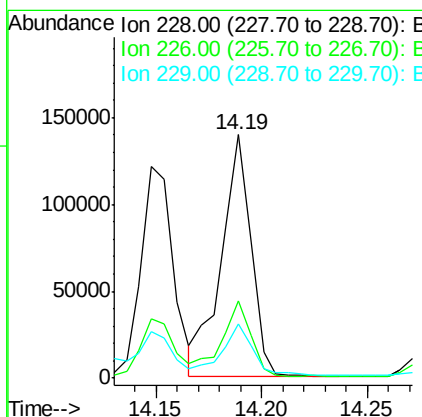
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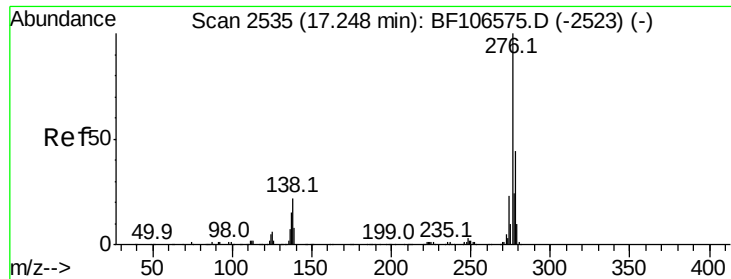
Sohil  
7/12/2018 2:19:33 PM



#82  
Chrysene  
Concen: 13.451 ng  
RT: 14.19 min Scan# 2015  
Delta R.T. 0.02 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.7  | 25.0  | 37.6  |
| 229     | 22.2  | 16.2  | 24.4  |





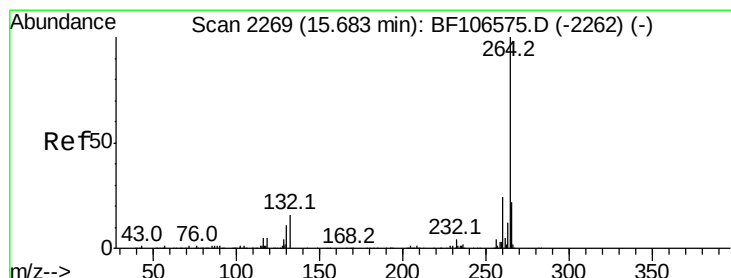
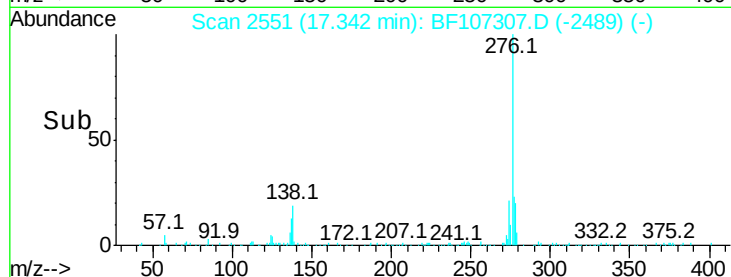
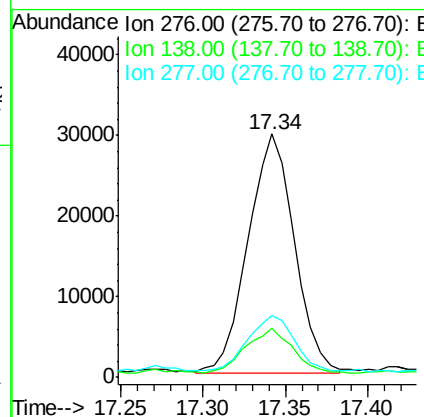
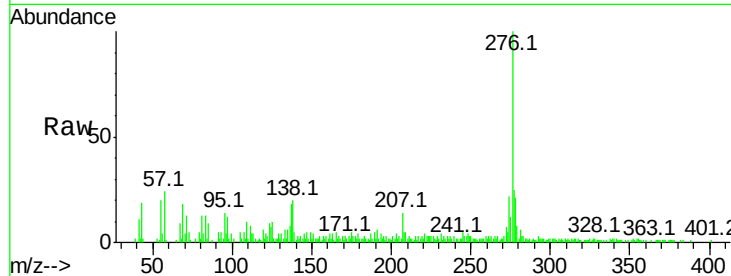
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 6.713 ng/ml  
RT: 17.34 min Scan# 2551  
Delta R.T. 0.06 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
B1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 1.3   | 25.0  | 37.6# |
| 277     | 1.0   | 20.1  | 30.1# |

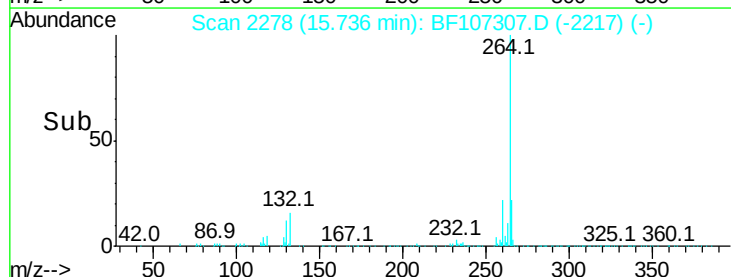
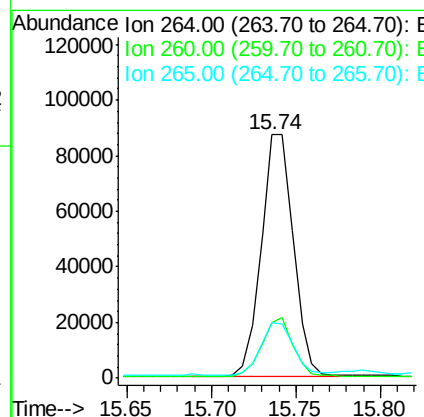
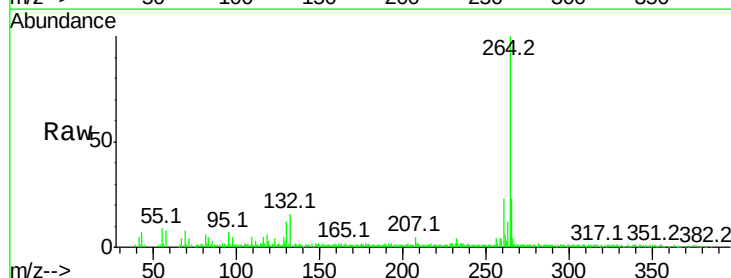
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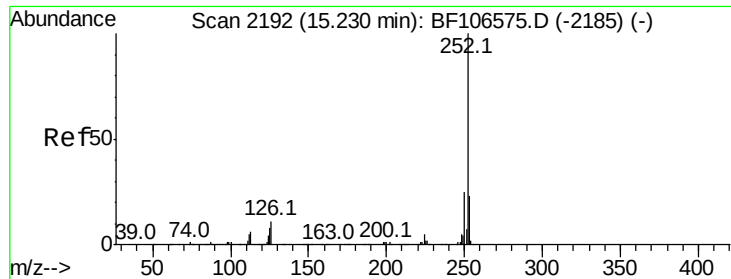
Sohil  
7/12/2018 2:19:33 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.74 min Scan# 2278  
Delta R.T. 0.06 min  
Lab File: BF107307.D  
Acq: 11 Jul 2018 18:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 19.2  | 28.8  |
| 265     | 22.6  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 18.474 ng m

RT: 15.28 min Scan# 2200

Delta R.T. 0.05 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

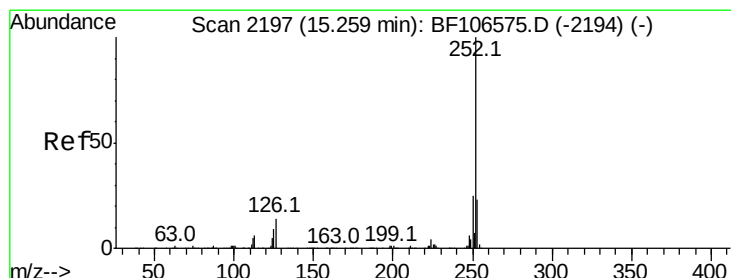
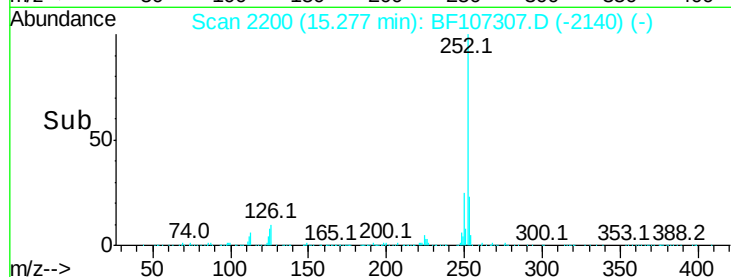
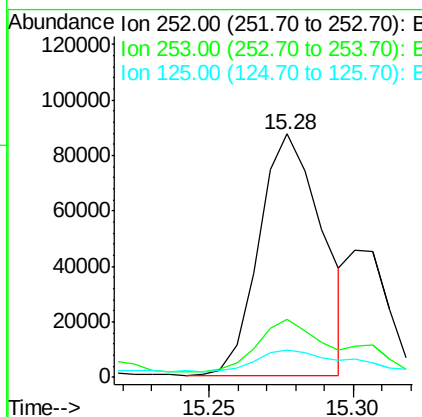
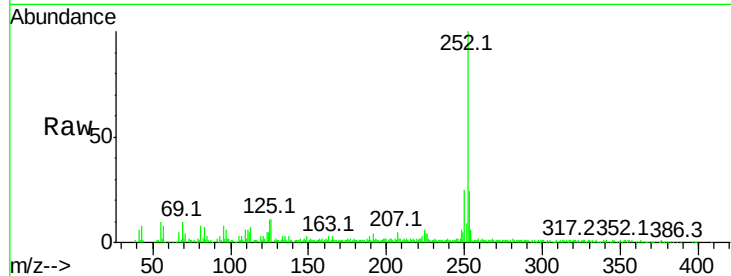
ClientSampled :

B1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 132741 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 17.0  | 25.6   |
| 125       | 11.1  | 9.0   | 13.6   |

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7/12/2018 2:19:33 PM



#88

Benzo(k)fluoranthene

Concen: 6.366 ng m

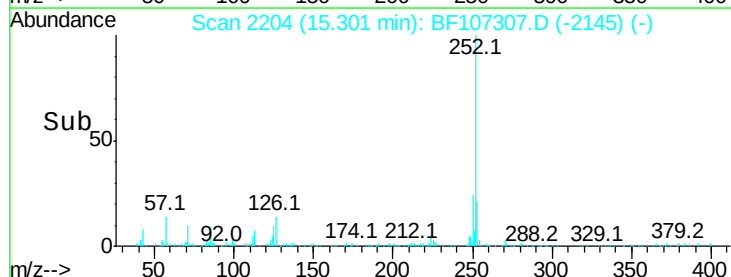
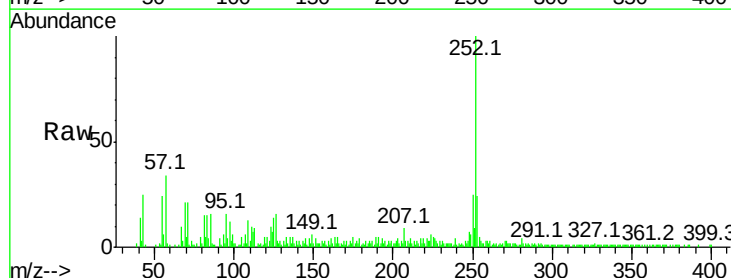
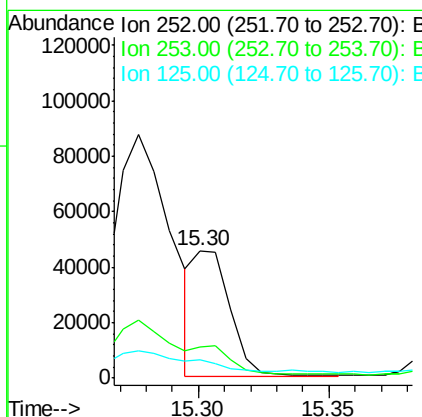
RT: 15.30 min Scan# 2204

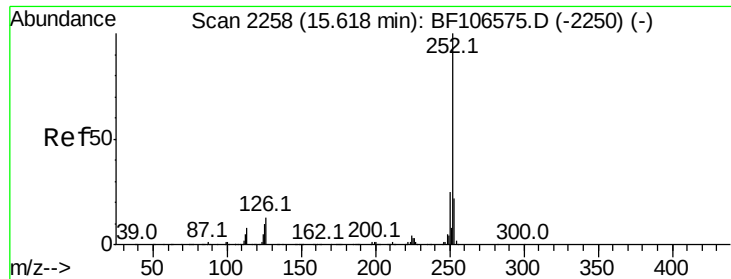
Delta R.T. 0.05 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 43563 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 17.9  | 26.9  |
| 125       | 14.0  | 10.2  | 15.2  |





#89

Benzo(a)pyrene

Concen: 13.691 ng

RT: 15.67 min Scan# 2267

Delta R.T. 0.05 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

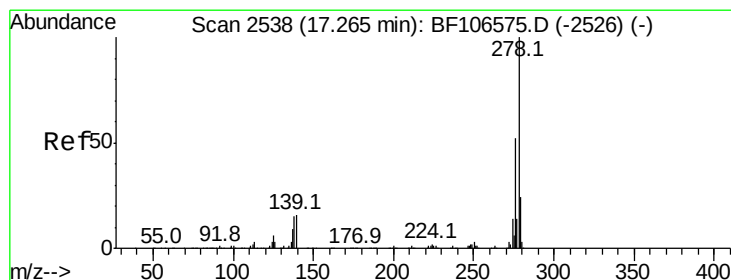
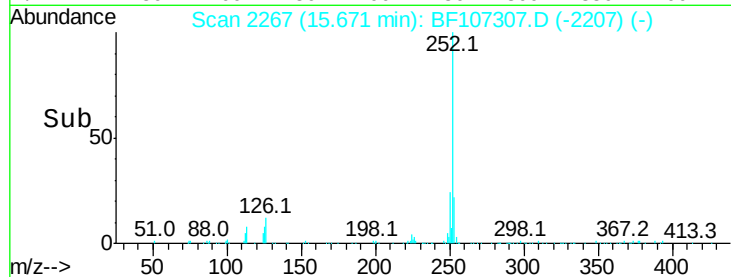
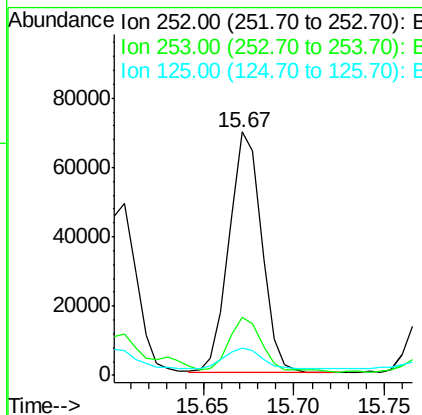
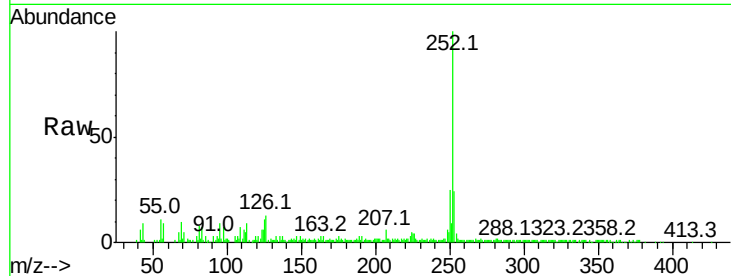
ClientSampled :

B1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 87452 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.9  | 17.1  | 25.7  |
| 125       | 11.3  | 9.8   | 14.6  |

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7/12/2018 2:19:33 PM



#90

Dibenzo(a,h)anthracene

Concen: 2.821 ng

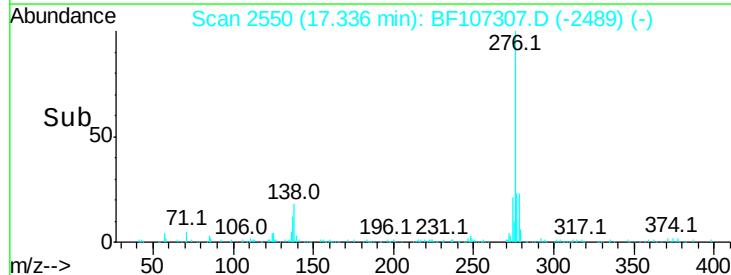
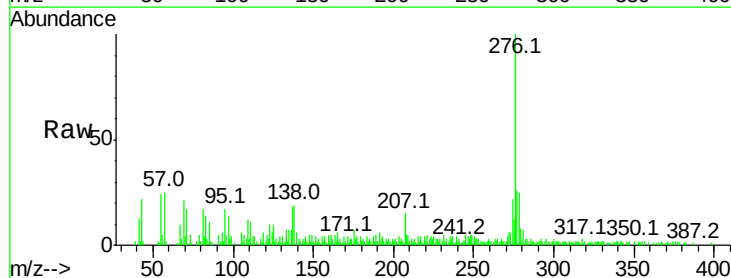
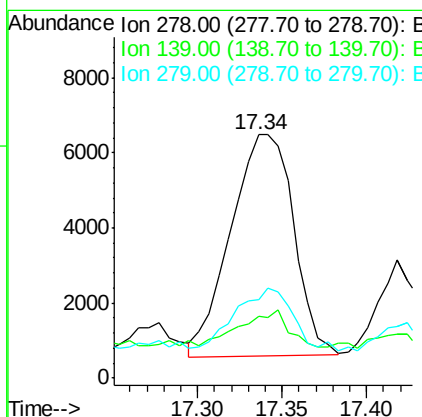
RT: 17.34 min Scan# 2550

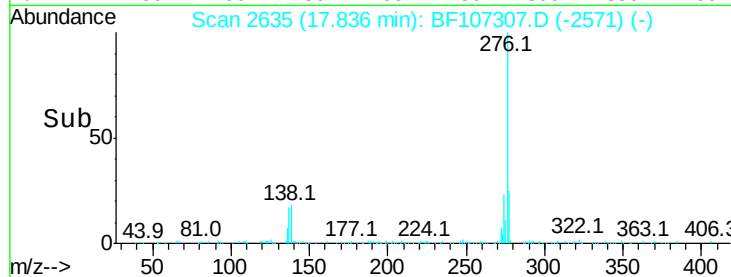
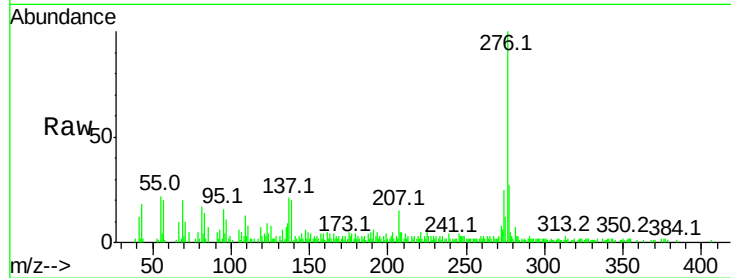
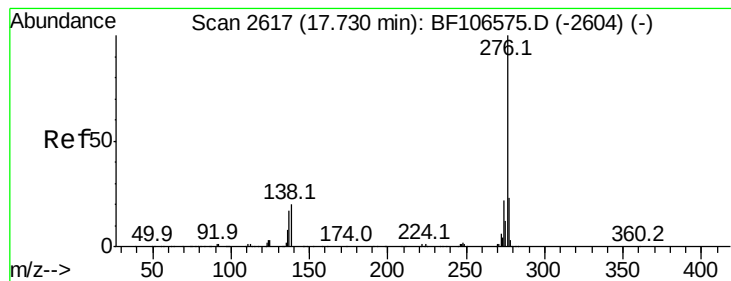
Delta R.T. 0.06 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 15274 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 25.2  | 15.9  | 23.9# |
| 279       | 32.4  | 19.0  | 28.4# |





#91

Benzo(a,h,i)perylene

Concen: 10.626 ng

RT: 17.84 min Scan# 2635

Delta R.T. 0.08 min

Lab File: BF107307.D

Acq: 11 Jul 2018 18:26

Instrument :

BNA\_F

ClientSampleId :

B1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 56224 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 27.1  | 17.9  | 26.9# |
| 138       | 19.9  | 21.8  | 32.8# |

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