

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082718\  
 Data File : BF108507.D  
 Acq On : 27 Aug 2018 13:48  
 Operator : JU/SJ  
 Sample : J4646-06  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP1-Q4-B5

Manual Integrations  
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Sohil  
 8/27/2018 5:09:52 PM

Quant Time: Aug 27 14:41:42 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 22 11:01:45 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.00  | 152  | 123448   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.28  | 136  | 463422   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.04 | 164  | 233635   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.54 | 188  | 408152   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 14.19 | 240  | 289402   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.75 | 264  | 279476   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.63  | 112  | 620940   | 91.07  | ng    | 0.00     |
| 7) Phenol-d6                | 6.62  | 99   | 840271   | 92.73  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.56  | 82   | 558356   | 67.23  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.84 | 330  | 227881   | 97.78  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.35  | 172  | 1053672  | 72.41  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.12 | 244  | 859426   | 75.51  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.75  | 163  | 197953   | 12.163 | ng    | 98       |
| 74) Fluoranthene            | 12.76 | 202  | 88025    | 4.190  | ng    | 93       |
| 77) Pyrene                  | 12.99 | 202  | 89275    | 4.873  | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.18 | 228  | 50442    | 3.037  | ng    | 99       |
| 82) Chrysene                | 14.22 | 228  | 47504    | 3.120  | ng    | 99       |
| 87) Benzo(b)fluoranthene    | 15.28 | 252  | 60192m   | 3.604  | ng    |          |
| 89) Benzo(a)pyrene          | 15.68 | 252  | 46508    | 3.110  | ng    | 97       |

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

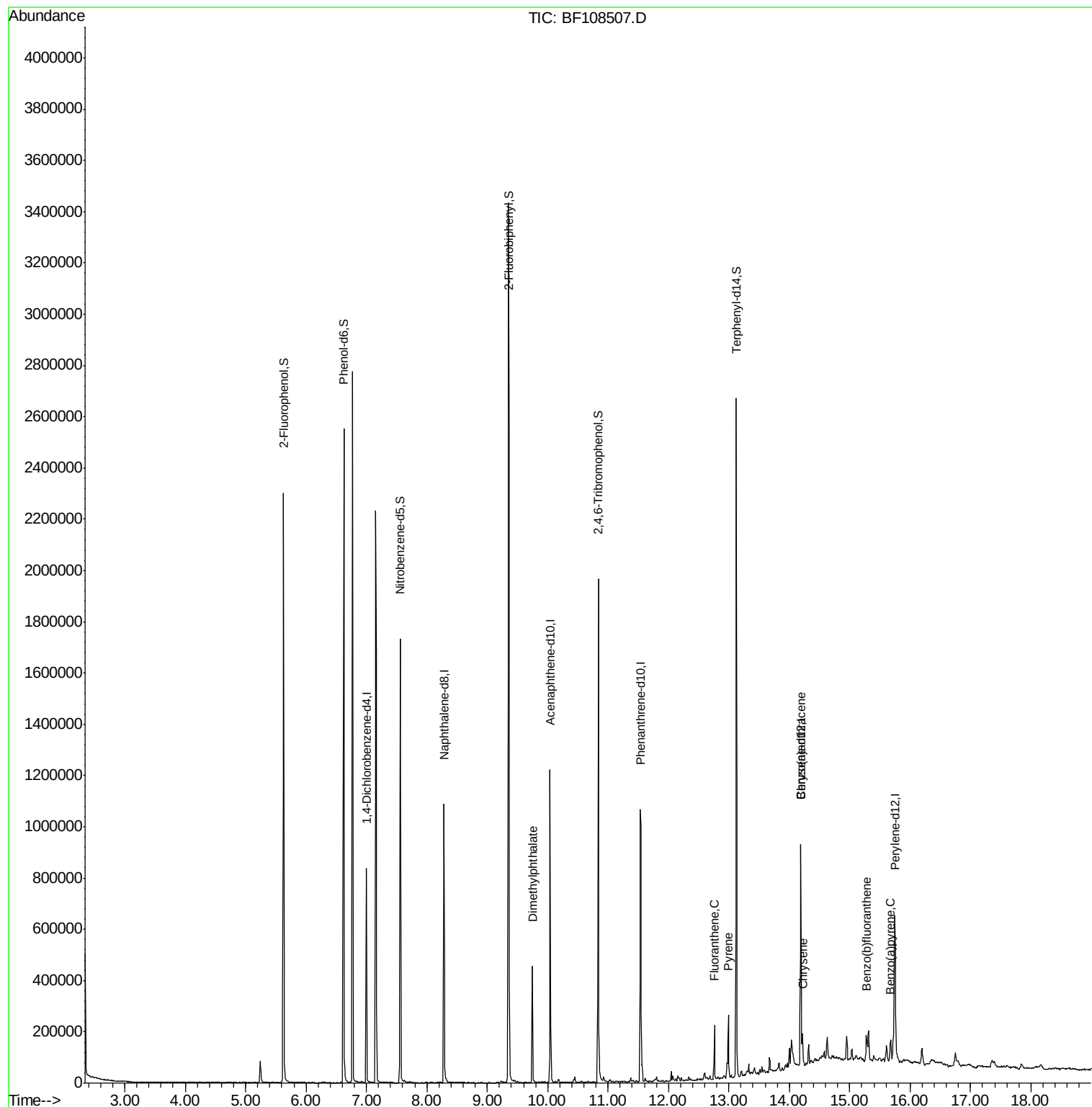
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082718\  
Data File : BF108507.D  
Acq On : 27 Aug 2018 13:48  
Operator : JU/SJ  
Sample : J4646-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

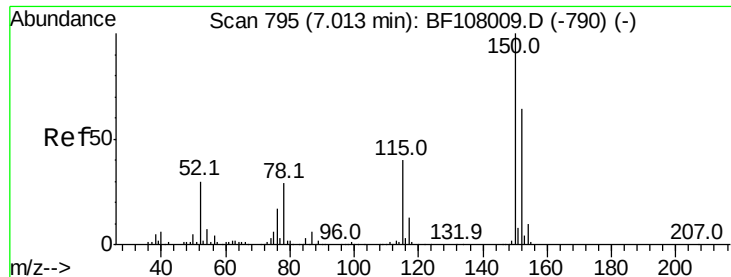
Instrument :  
BNA\_F  
ClientSampleId :  
EP1-Q4-B5

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Quant Time: Aug 27 14:41:42 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 22 11:01:45 2018  
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#1

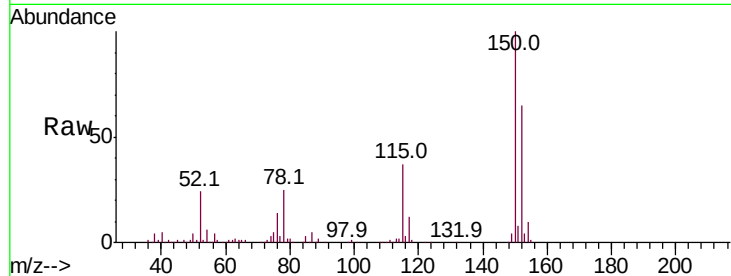
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 793  
Delta R.T. -0.01 min  
Lab File: BF108507.D  
Acq: 27 Aug 2018 13:48

Instrument :  
BNA\_F  
ClientSampled :  
EP1-Q4-B5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.8 | 124.6 | 186.8 |
| 115     | 56.5  | 50.1  | 75.1  |

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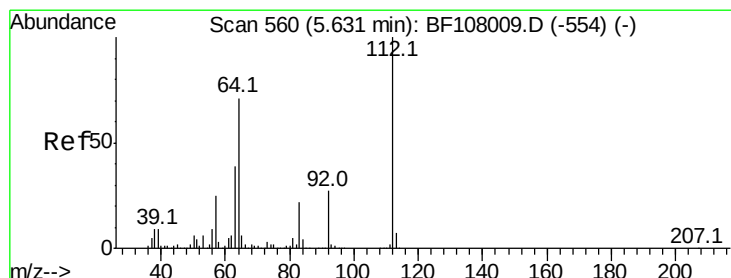
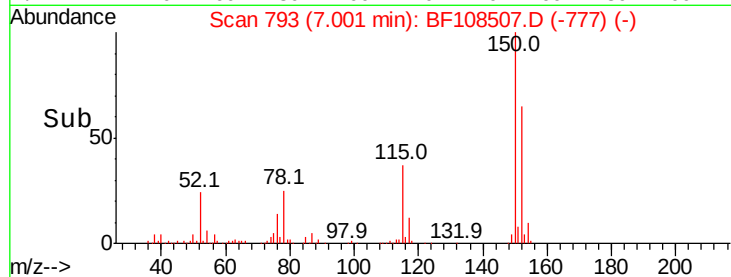
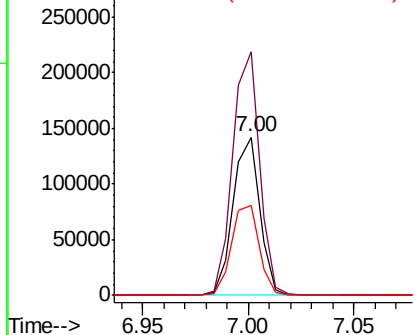


Abundance

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: 91.065 ng  
RT: 5.63 min Scan# 560  
Delta R.T. -0.00 min  
Lab File: BF108507.D  
Acq: 27 Aug 2018 13:48

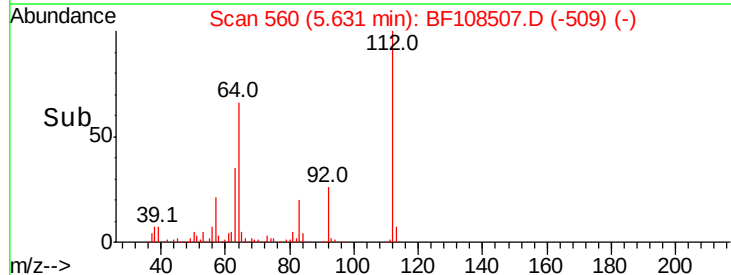
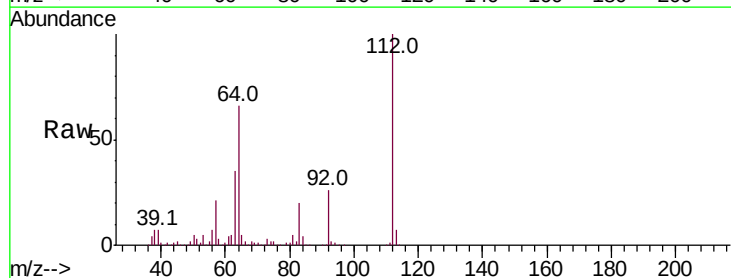
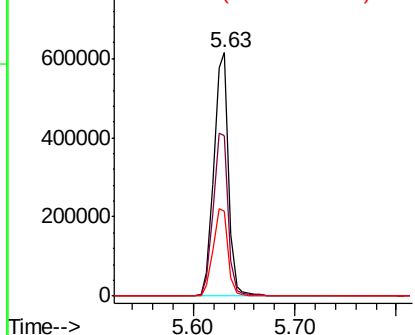
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.9  | 47.9  | 71.9  |
| 63      | 35.0  | 23.7  | 35.5  |

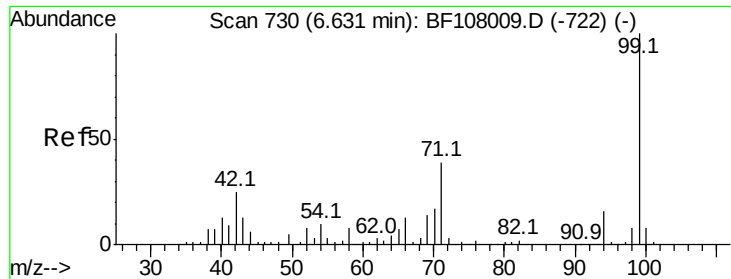
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 92.735 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

Instrument :

BNA\_F

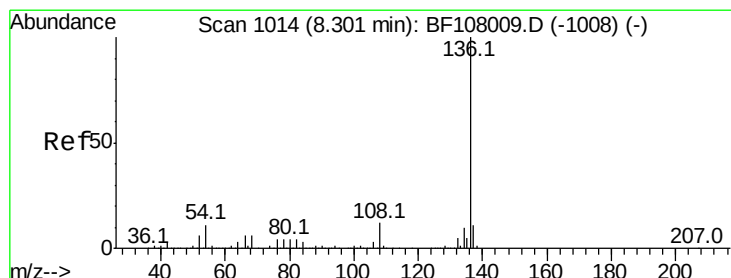
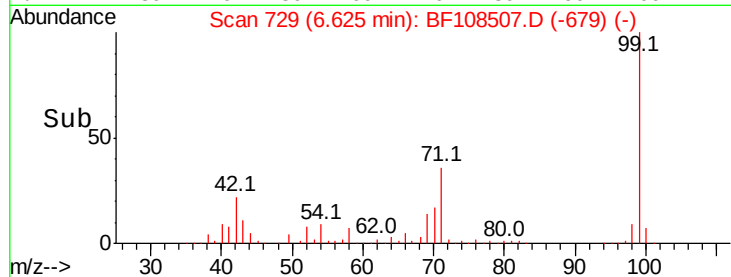
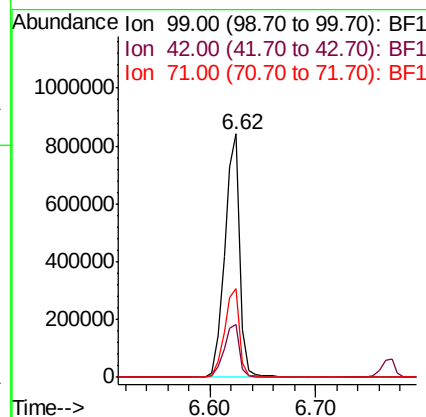
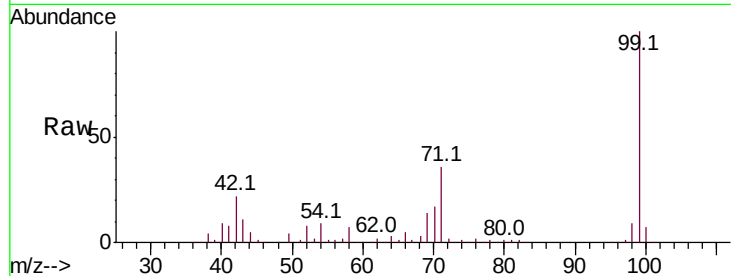
ClientSampled :

EP1-Q4-B5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 840271 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.7  | 14.5  | 21.7   |
| 71        | 36.2  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

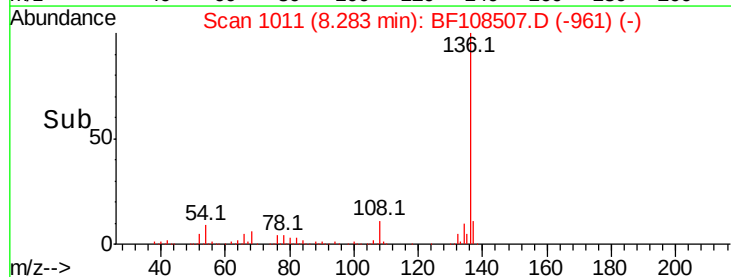
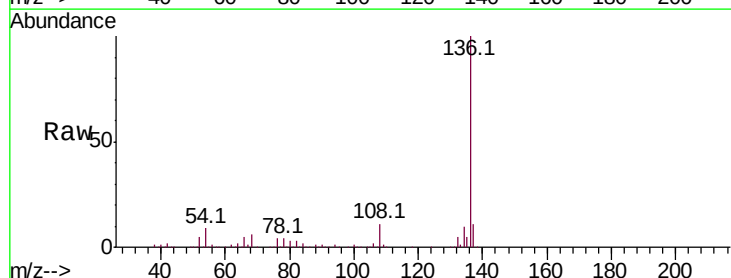
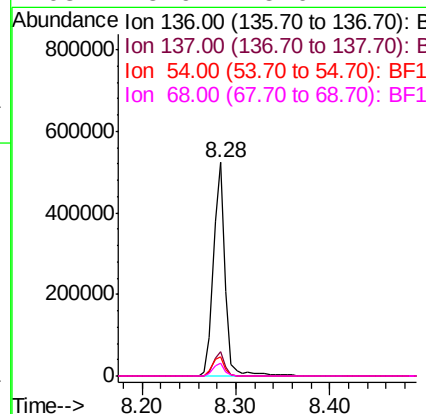
RT: 8.28 min Scan# 1011

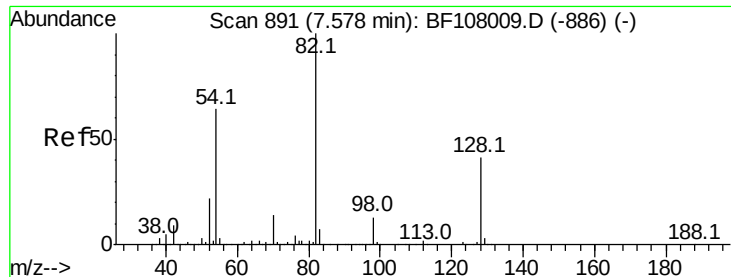
Delta R.T. -0.01 min

Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 463422 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 8.9   | 13.3   |
| 54        | 9.3   | 6.6   | 9.8    |
| 68        | 5.9   | 5.0   | 7.4    |





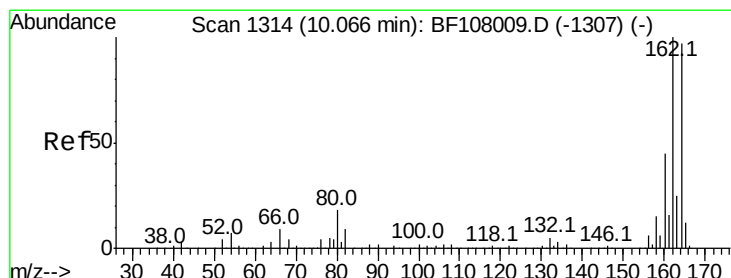
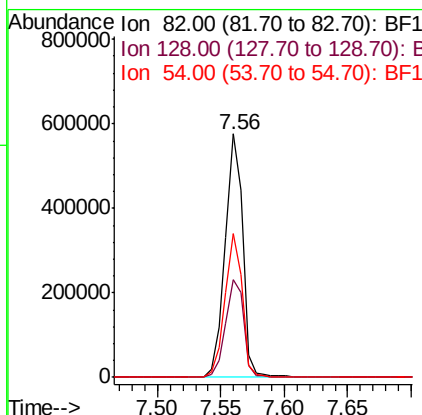
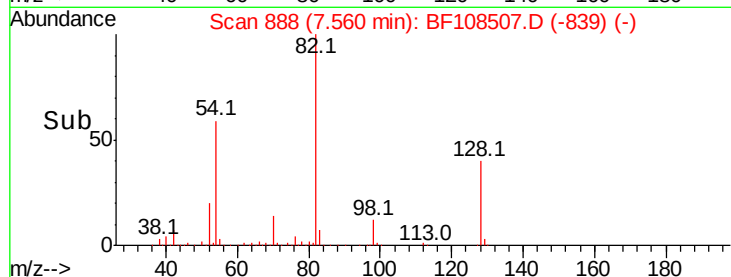
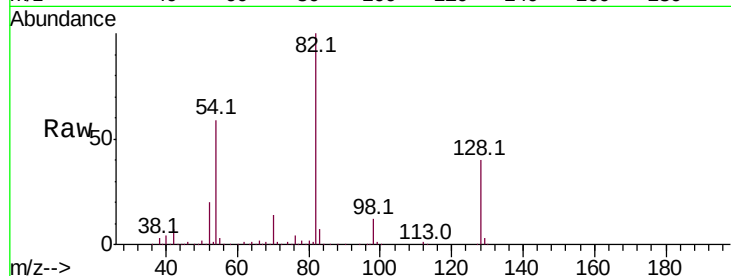
#23  
 Nitrobenzene-d5  
 Concen: 67.233 ng  
 RT: 7.56 min Scan# 888  
 Delta R.T. -0.01 min  
 Lab File: BF108507.D  
 Acq: 27 Aug 2018 13:48

Instrument :  
 BNA\_F  
 ClientSampled :  
 EP1-Q4-B5

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 40.3  | 36.1 | 54.1  |       |
| 54      | 59.1  | 41.4 | 62.2  |       |

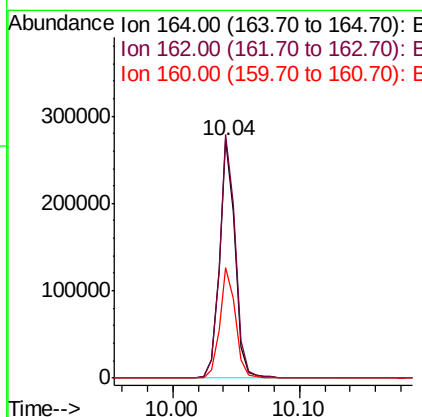
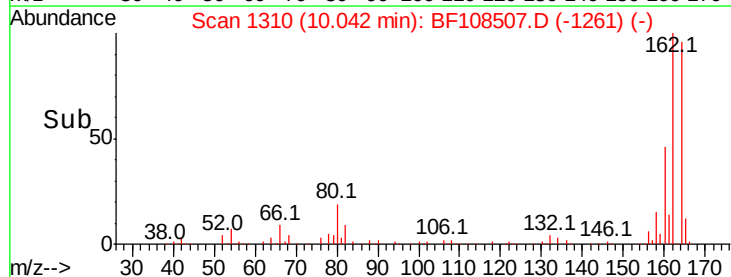
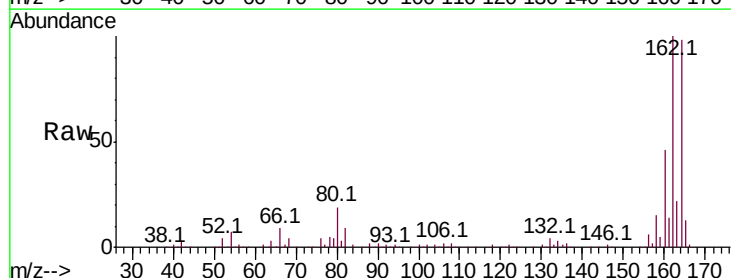
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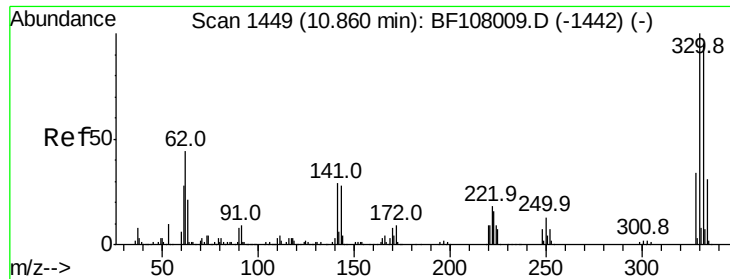
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.04 min Scan# 1310  
 Delta R.T. -0.01 min  
 Lab File: BF108507.D  
 Acq: 27 Aug 2018 13:48

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.1 | 86.1 | 129.1 |       |
| 160     | 46.5  | 38.3 | 57.5  |       |





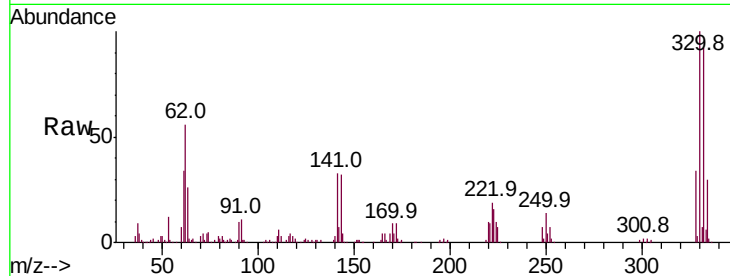
#41  
 2,4,6-Tribromophenol  
 Concen: 97.784 ng  
 RT: 10.84 min Scan# 1445  
 Delta R.T. -0.01 min  
 Lab File: BF108507.D  
 Acq: 27 Aug 2018 13:48

Instrument :  
 BNA\_F  
 ClientSampled :  
 EP1-Q4-B5

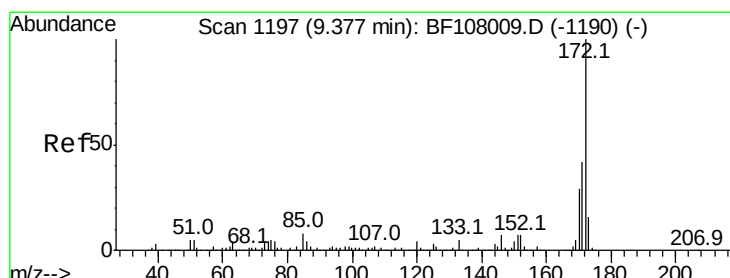
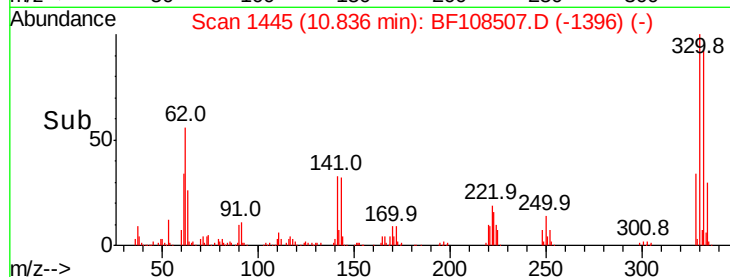
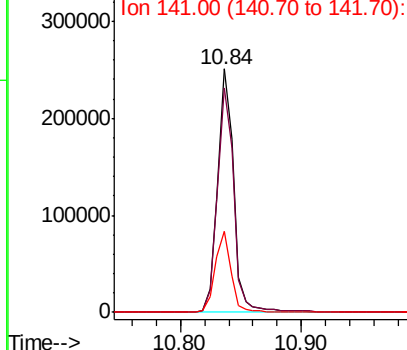
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 227881 |       |       |
| 332     | 95.1  | 77.0   | 115.6 |       |
| 141     | 33.1  | 29.9   | 44.9  |       |

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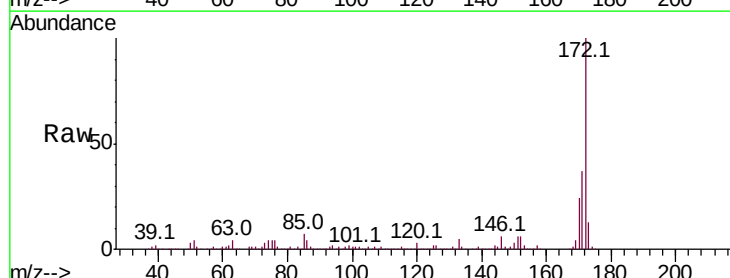


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

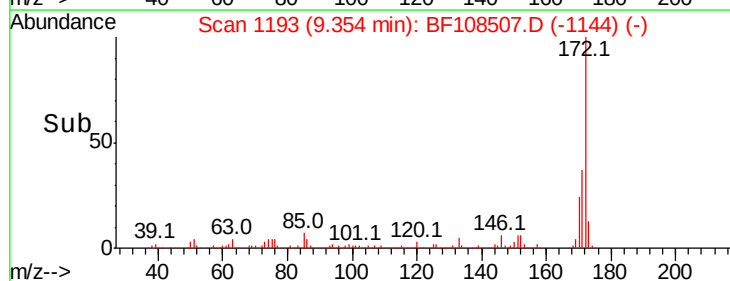
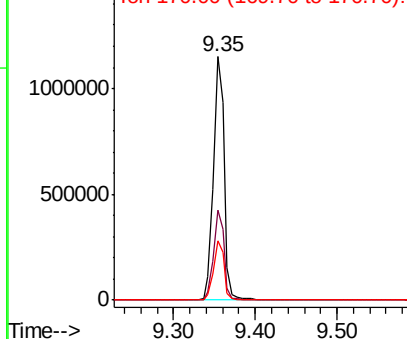


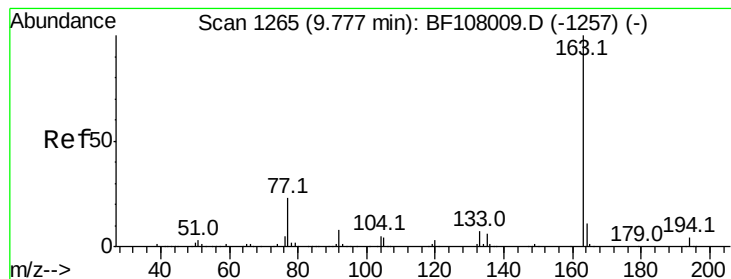
#44  
 2-Fluorobiphenyl  
 Concen: 72.405 ng  
 RT: 9.35 min Scan# 1193  
 Delta R.T. -0.01 min  
 Lab File: BF108507.D  
 Acq: 27 Aug 2018 13:48

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1053672 |       |       |
| 171     | 36.7  | 29.7    | 44.5  |       |
| 170     | 24.5  | 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: 12.163 ng

RT: 9.75 min Scan# 1260

Delta R.T. -0.02 min

Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

Instrument :

BNA\_F

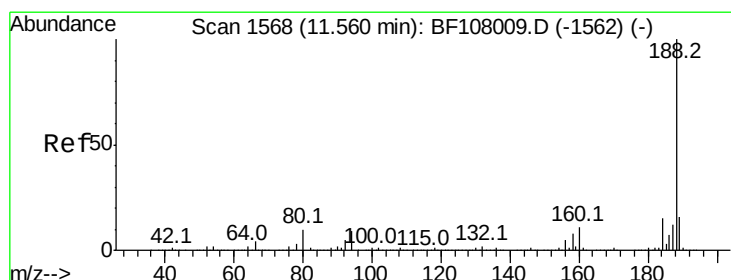
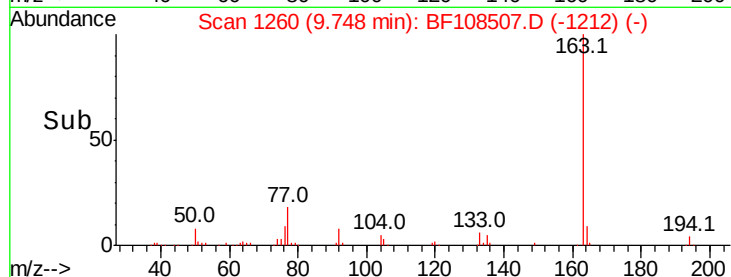
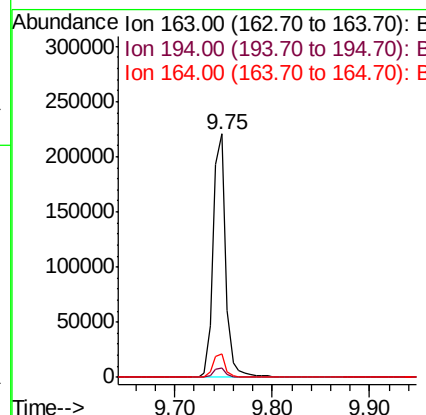
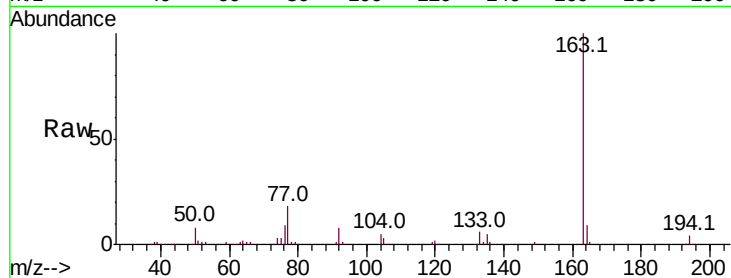
ClientSampleId :

EP1-Q4-B5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 197953 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.0   | 2.7   | 4.1    |
| 164       | 9.4   | 8.2   | 12.2   |

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#63

Phenanthrene-d10

Concen: 20.000 ng

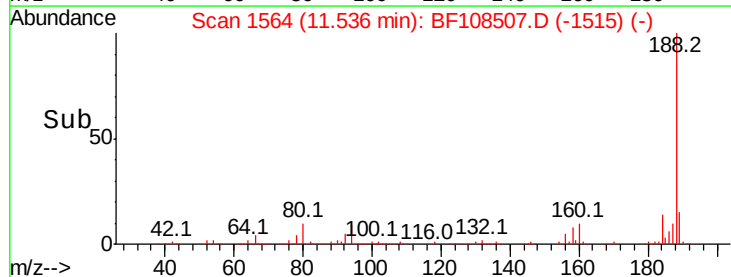
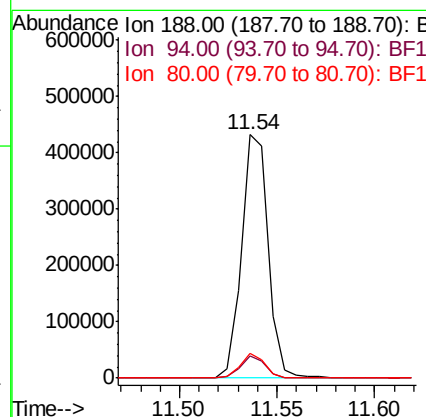
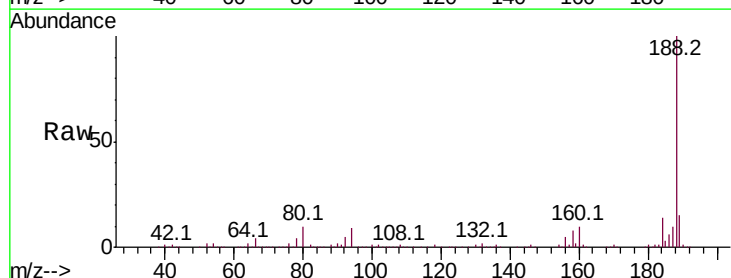
RT: 11.54 min Scan# 1564

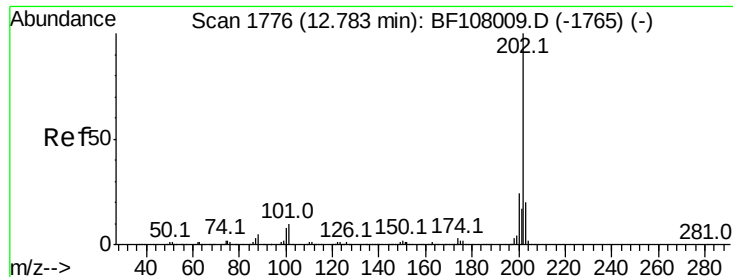
Delta R.T. -0.01 min

Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 408152 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.1   | 8.5   | 12.7   |
| 80        | 10.2  | 9.2   | 13.8   |





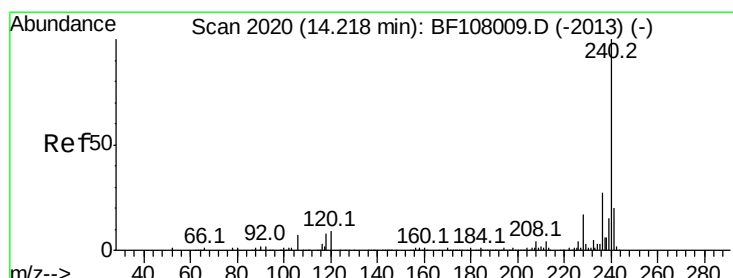
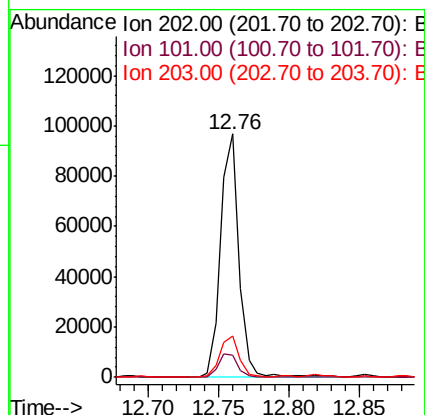
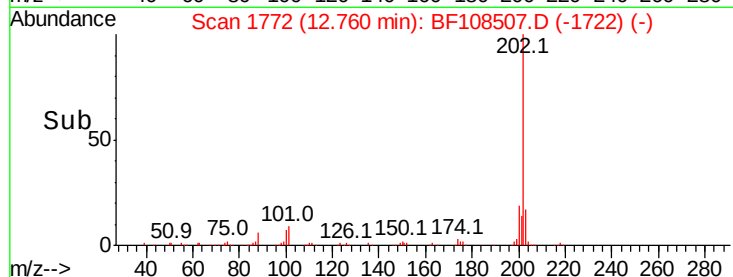
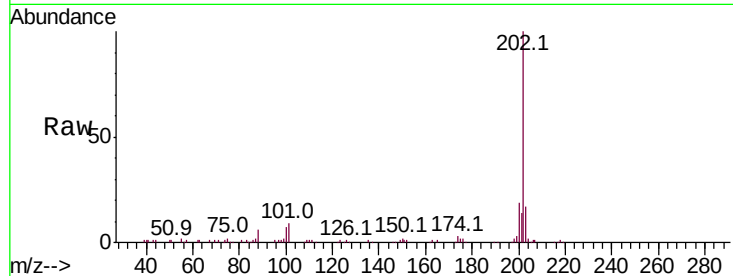
#74  
Fluoranthene  
Concen: 4.190 ng  
RT: 12.76 min Scan# 1772  
Delta R.T. -0.01 min  
Lab File: BF108507.D  
Acq: 27 Aug 2018 13:48

Instrument :  
BNA\_F  
ClientSampleId :  
EP1-Q4-B5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 88025 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.9   | 0.0   | 34.1  |
| 203       | 16.9  | 0.0   | 38.1  |

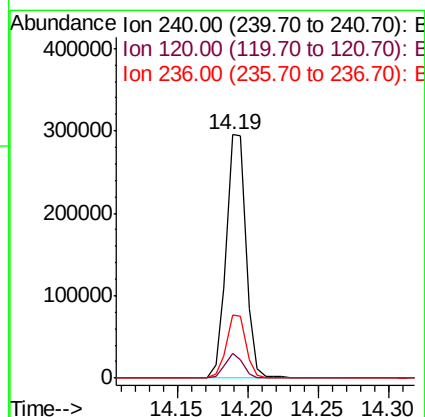
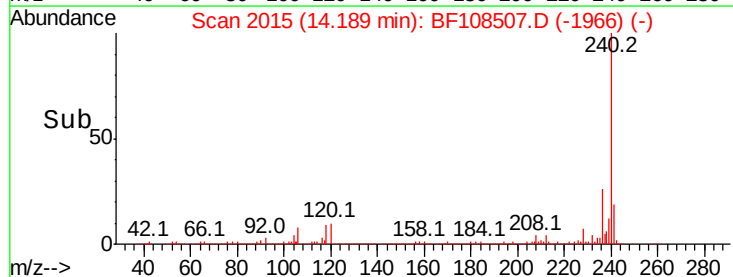
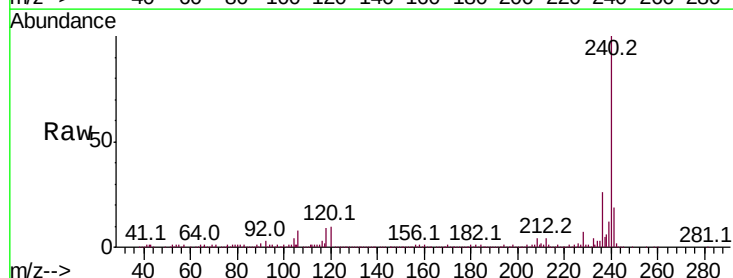
Manual Integrations  
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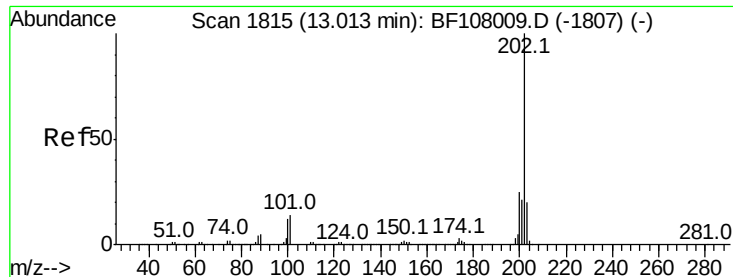


#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.19 min Scan# 2015  
Delta R.T. -0.01 min  
Lab File: BF108507.D  
Acq: 27 Aug 2018 13:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 289402 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.4  | 9.5   | 14.3   |
| 236       | 26.0  | 20.7  | 31.1   |







#77

Pvrene

Concen: 4.873 ng

RT: 12.99 min Scan# 1811

Delta R.T. -0.01 min

Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

Instrument :

BNA\_F

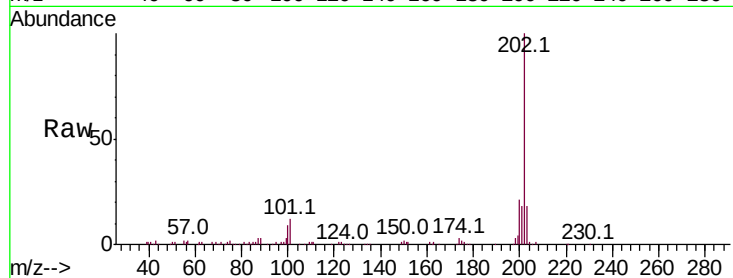
ClientSampled :

EP1-Q4-B5

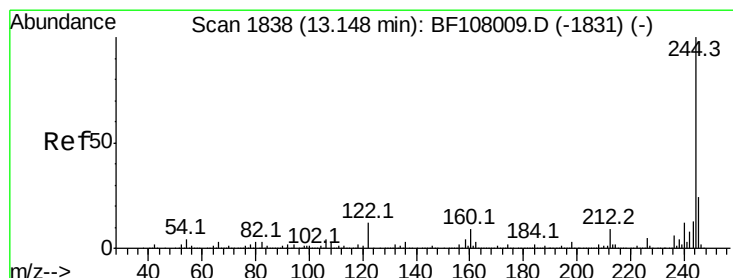
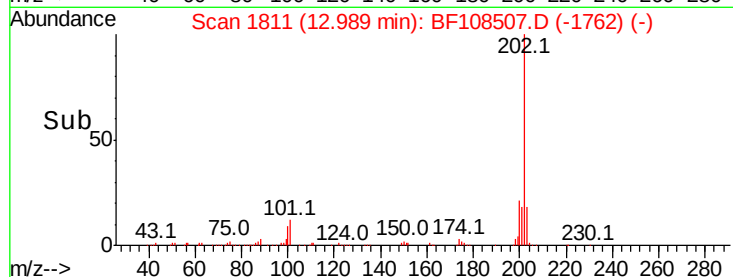
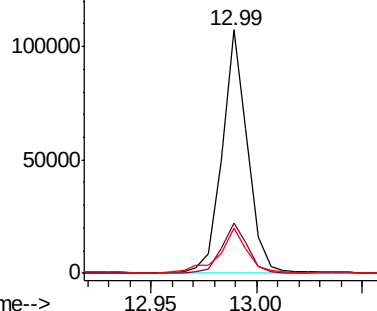
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 89275 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.8  | 17.4  | 26.2  |
| 203       | 18.5  | 14.3  | 21.5  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 75.506 ng

RT: 13.12 min Scan# 1834

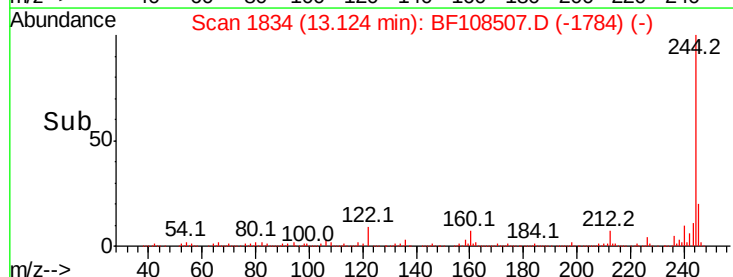
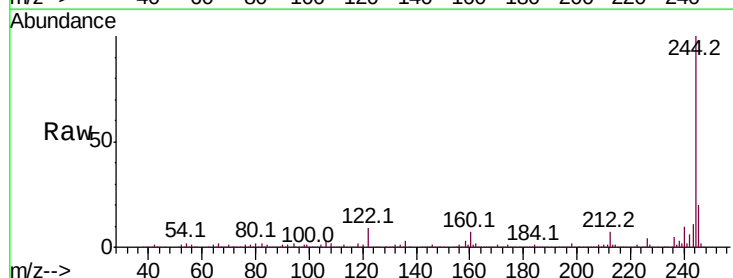
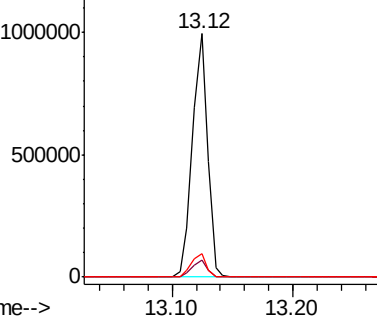
Delta R.T. -0.01 min

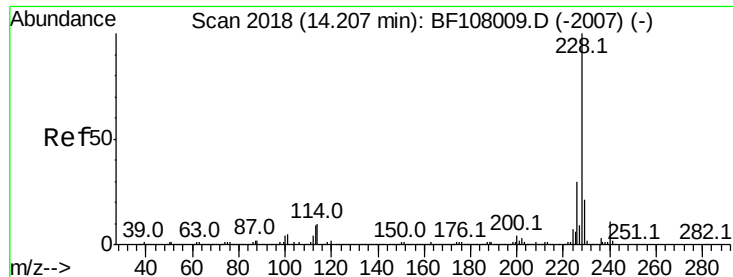
Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 859426 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.1   | 5.4   | 8.0    |
| 122       | 9.5   | 11.0  | 16.4#  |

Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





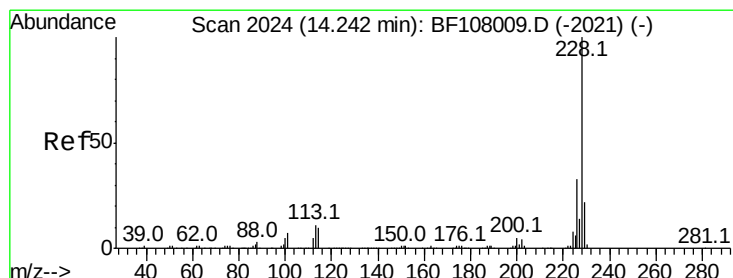
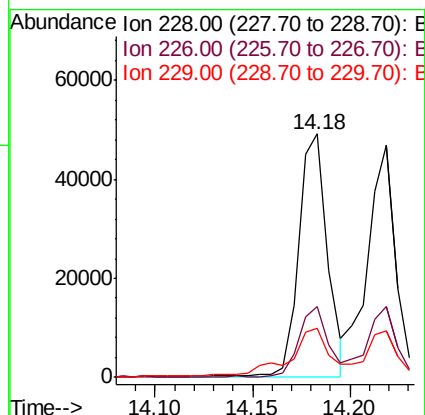
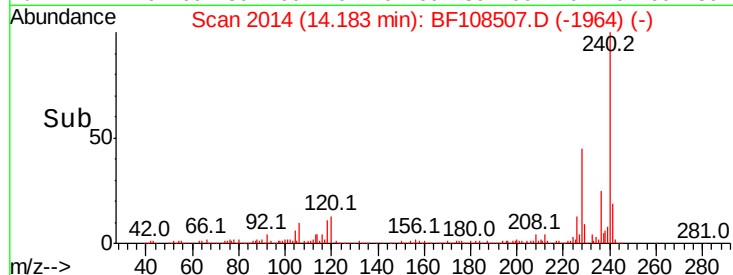
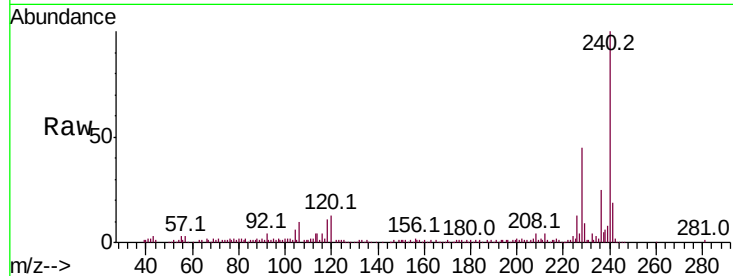
#80  
Benzo(a)anthracene  
Concen: 3.037 ng  
RT: 14.18 min Scan# 2014  
Delta R.T. -0.01 min  
Lab File: BF108507.D  
Acq: 27 Aug 2018 13:48

Instrument :  
BNA\_F  
ClientSampled :  
EP1-Q4-B5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.6  | 33.8  |
| 229     | 20.1  | 15.8  | 23.6  |

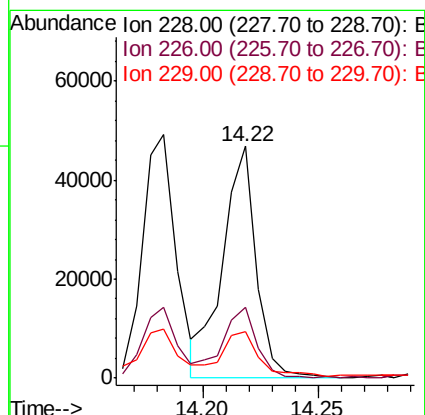
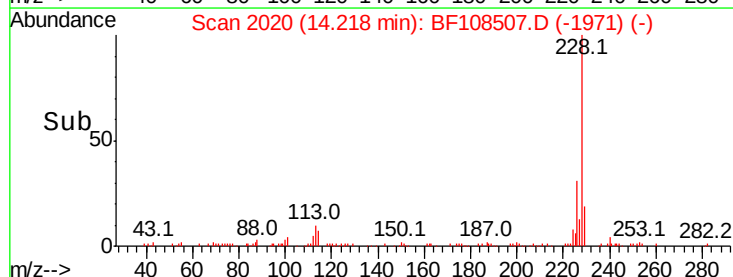
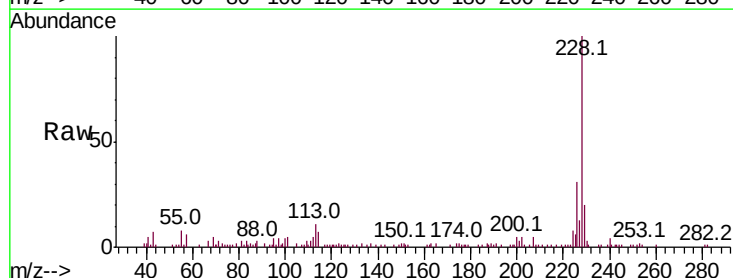
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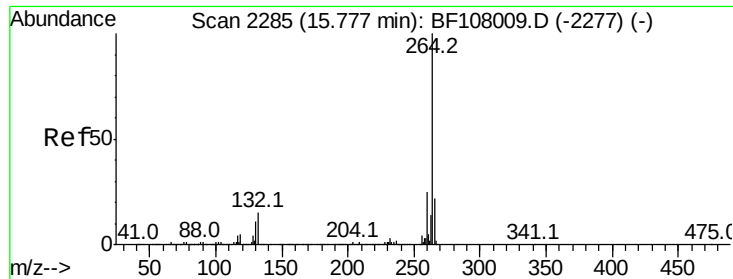
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#82  
Chrysene  
Concen: 3.120 ng  
RT: 14.22 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF108507.D  
Acq: 27 Aug 2018 13:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 25.0  | 37.6  |
| 229     | 20.2  | 16.2  | 24.4  |





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.75 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

Instrument :

BNA\_F

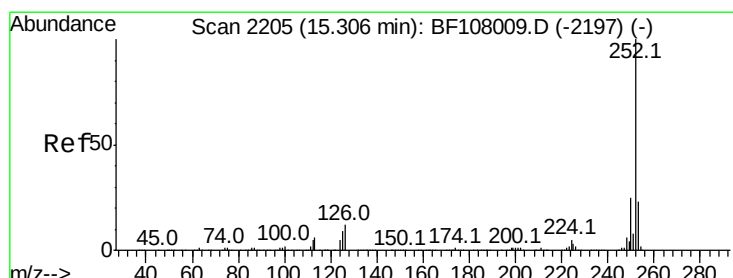
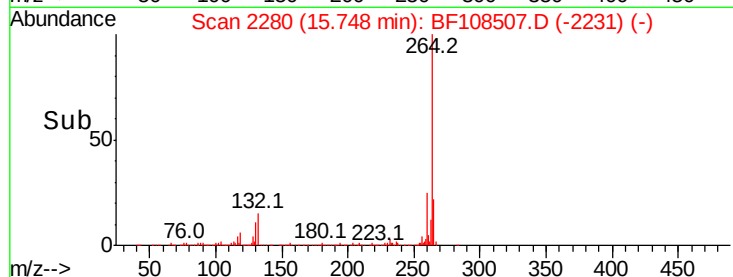
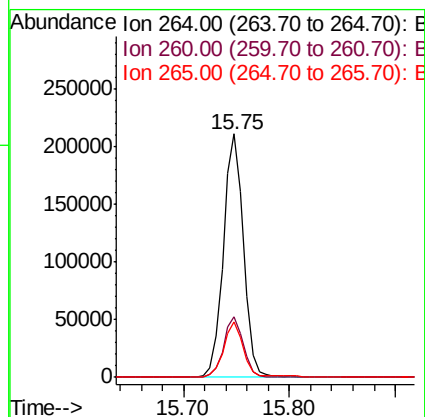
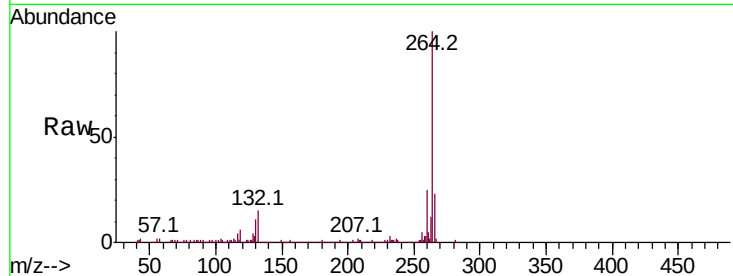
ClientSampled :

EP1-Q4-B5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 279476 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.9  | 19.2  | 28.8   |
| 265       | 22.6  | 17.5  | 26.3   |

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#87

Benzo(b)fluoranthene

Concen: 3.604 ng m

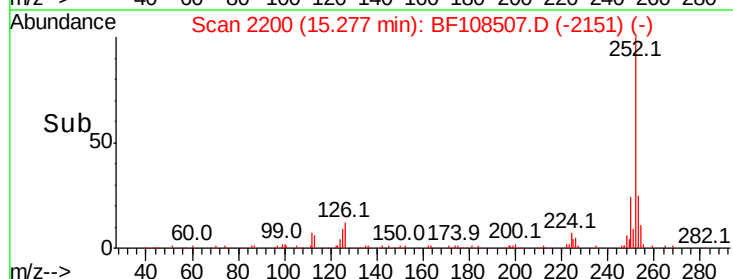
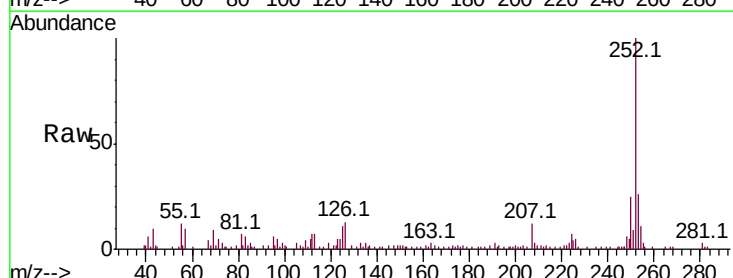
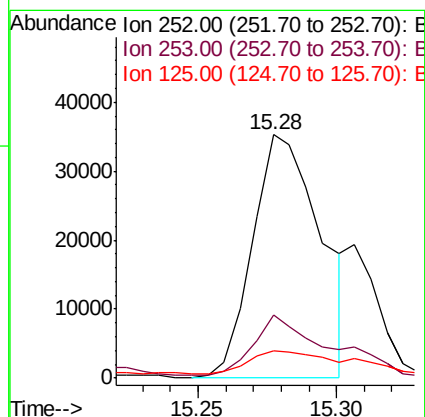
RT: 15.28 min Scan# 2200

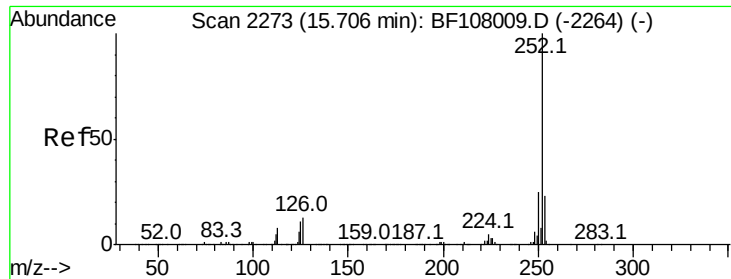
Delta R.T. -0.01 min

Lab File: BF108507.D

Acq: 27 Aug 2018 13:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 60192 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.2  | 17.0  | 25.6# |
| 125       | 11.3  | 9.0   | 13.6  |





#89  
 Benzo(a)pyrene  
 Concen: 3.110 ng  
 RT: 15.68 min Scan# 2268  
 Delta R.T. -0.01 min  
 Lab File: BF108507.D  
 Acq: 27 Aug 2018 13:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EP1-Q4-B5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 20.3  | 17.1  | 25.7  |
| 125     | 10.5  | 9.8   | 14.6  |

Manual Integrations  
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