

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040618\  
 Data File : BF104311.D  
 Acq On : 6 Apr 2018 17:56  
 Operator : JU/SJ  
 Sample : J2239-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S-1-COMP

Manual Integrations  
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Sohil  
 4/9/2018 11:18:25 AM

Quant Time: Apr 06 18:39:17 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 06 16:44:53 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 149211   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.08  | 136  | 605478   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.84  | 164  | 276751   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.32 | 188  | 450321   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.96 | 240  | 318773   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.42 | 264  | 327992   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 1295571  | 132.77 | ng    | 0.01     |
| 7) Phenol-d6                | 6.43  | 99   | 1602059  | 133.62 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 960422   | 103.58 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 357362   | 124.48 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 1498637  | 85.55  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.92 | 244  | 1144252  | 81.84  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.45  | 94   | 122773   | 9.651  | ng    | 97       |
| 49) Dimethylphthalate       | 9.56  | 163  | 283696   | 12.999 | ng    | 99       |
| 56) 2,4-Dinitrotoluene      | 10.02 | 165  | 16070    | 3.034  | ng    | # 96     |
| 70) Phenanthrene            | 11.35 | 178  | 63364    | 2.527  | ng    | 99       |
| 74) Fluoranthene            | 12.53 | 202  | 143093   | 5.461  | ng    | 98       |
| 77) Pyrene                  | 12.76 | 202  | 126947   | 5.373  | ng    | 99       |
| 80) Benzo(a)anthracene      | 13.95 | 228  | 65310    | 3.429  | ng    | 94       |
| 82) Chrysene                | 13.99 | 228  | 67646    | 3.458  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.84 | 276  | 46794    | 2.816  | ng    | 94       |
| 87) Benzo(b)fluoranthene    | 15.00 | 252  | 106876m  | 5.159  | ng    |          |
| 89) Benzo(a)pyrene          | 15.36 | 252  | 70066    | 3.780  | ng    | 97       |
| 91) Benzo(a,h,i)perylene    | 17.27 | 276  | 43844    | 2.973  | ng    | 98       |

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

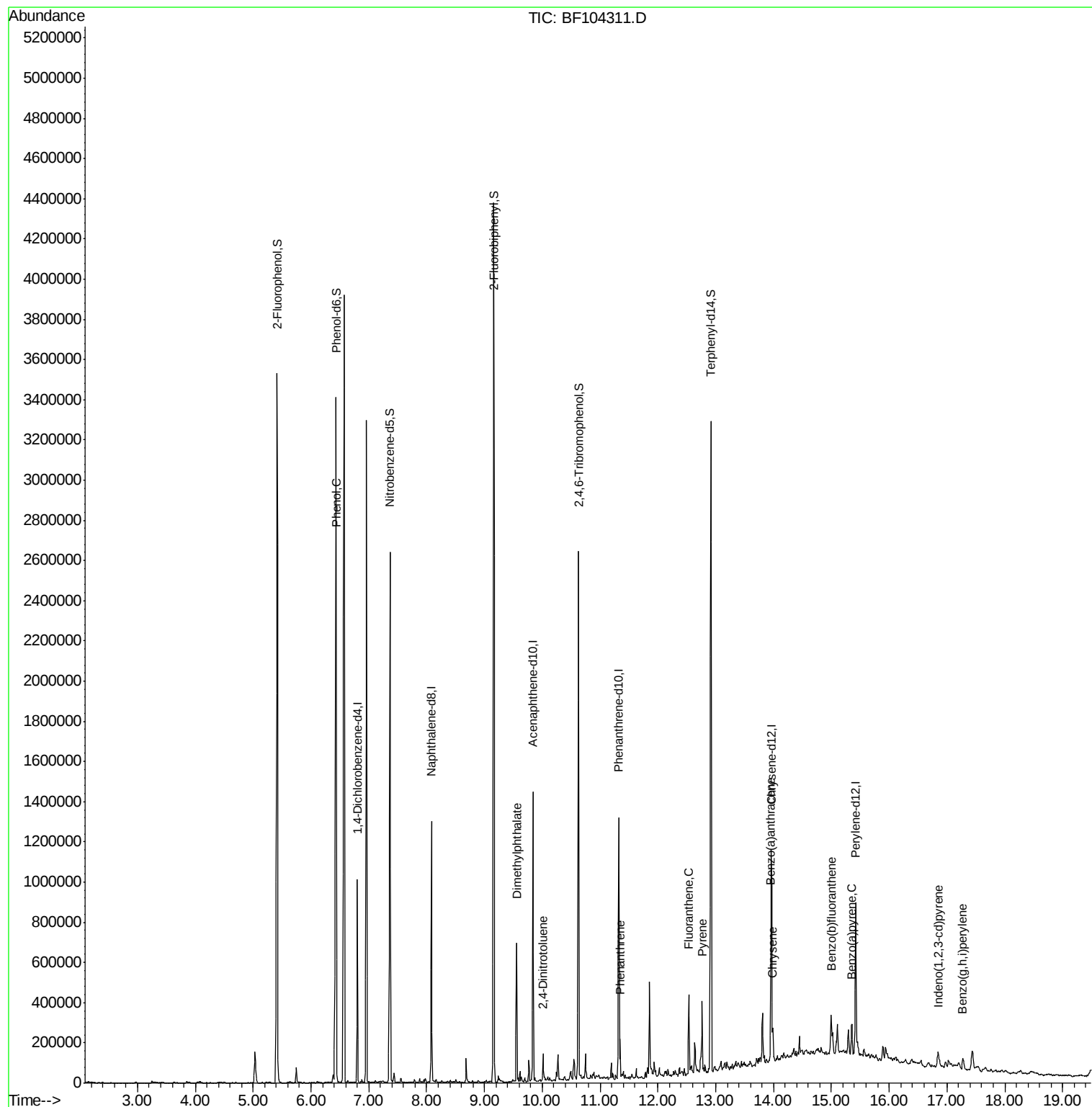
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040618\  
Data File : BF104311.D  
Acq On : 6 Apr 2018 17:56  
Operator : JU/SJ  
Sample : J2239-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

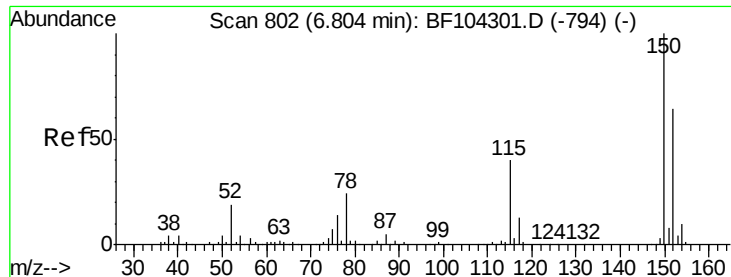
Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

Manual Integrations  
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4/9/2018 11:18:25 AM

Quant Time: Apr 06 18:39:17 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 06 16:44:53 2018  
Response via : Initial Calibration





#1

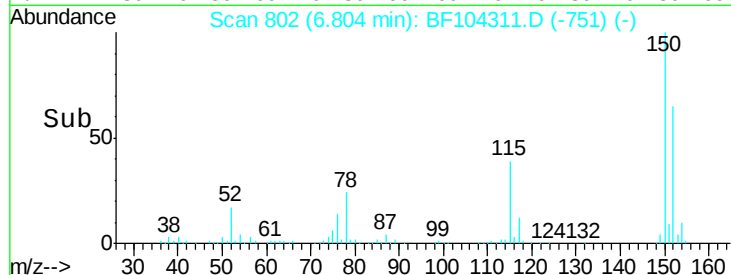
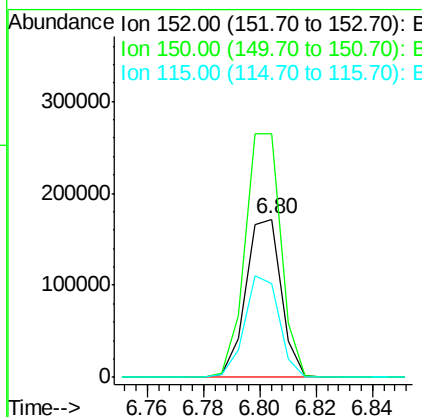
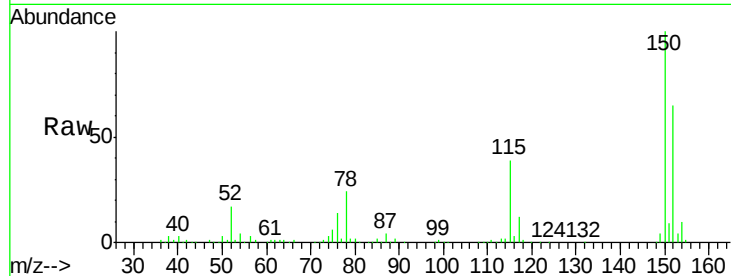
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.0 | 124.6 | 186.8 |
| 115     | 59.6  | 50.1  | 75.1  |

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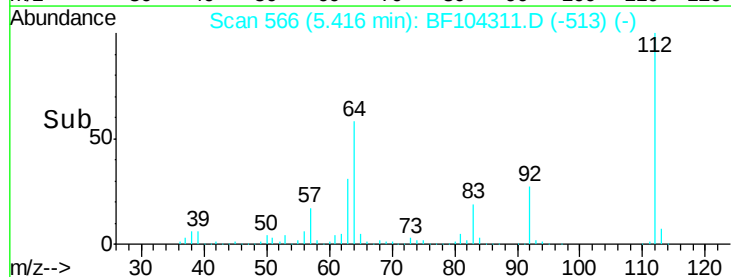
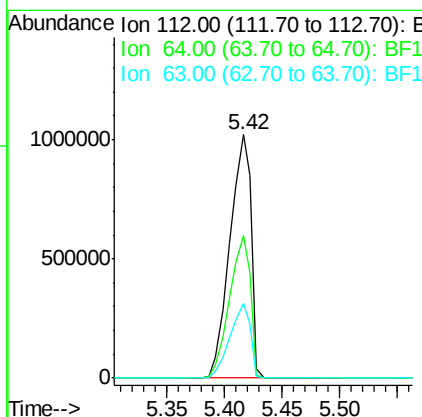
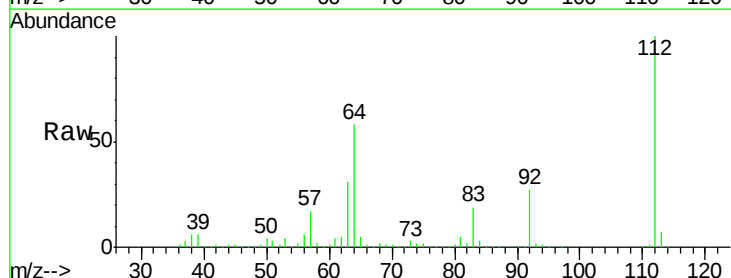
Sohil  
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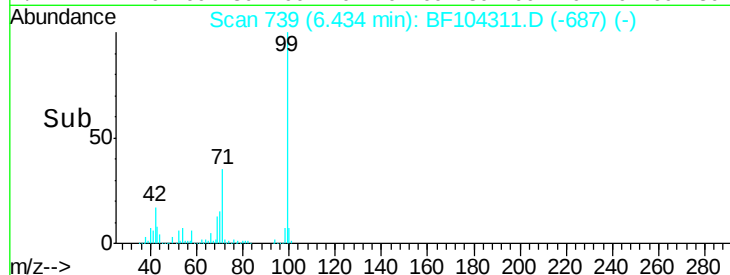
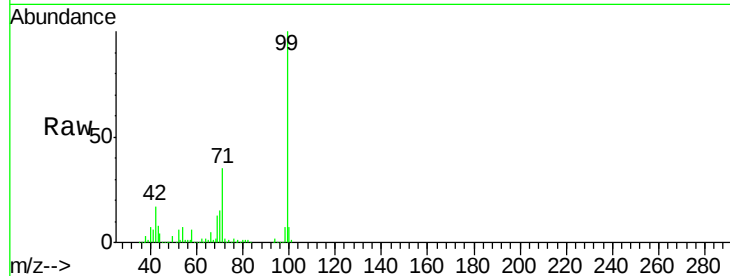


#5

2-Fluorophenol  
Concen: 132.765 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.5  | 47.9  | 71.9  |
| 63      | 30.6  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 133.618 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.01 min

Lab File: BF104311.D

Acq: 6 Apr 2018 17:56

Tot Ion: 99 Resp: 1602059

Ion Ratio Lower Upper

99 100

42 17.2 14.5 21.7

71 34.8 25.4 38.0

Instrument :

BNA\_F

ClientSampleId :

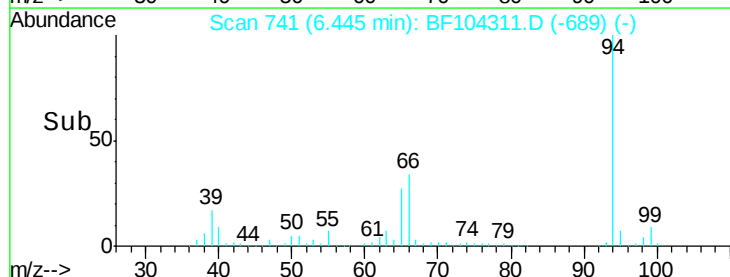
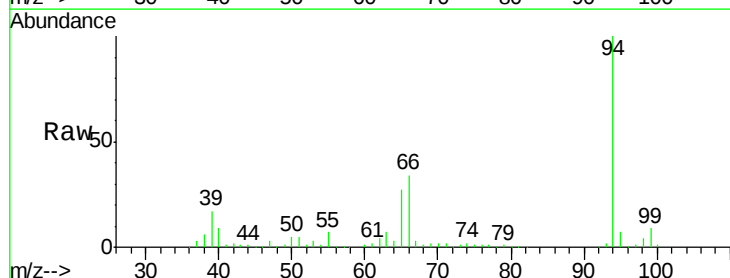
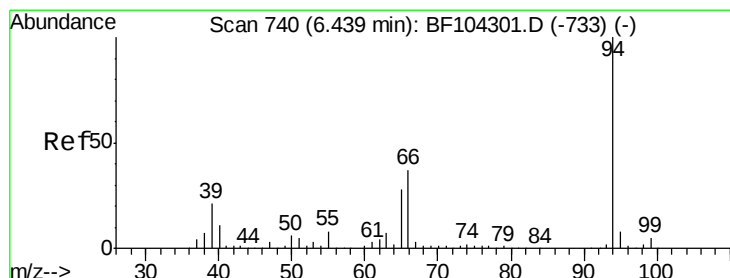
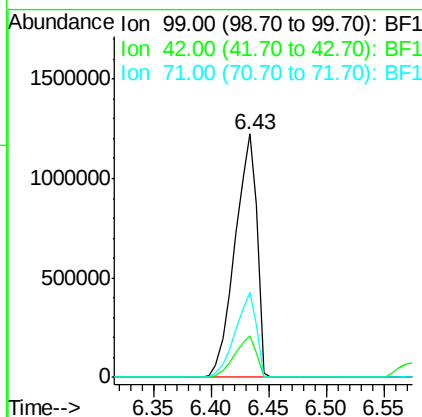
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#10

Phenol

Concen: 9.651 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.01 min

Lab File: BF104311.D

Acq: 6 Apr 2018 17:56

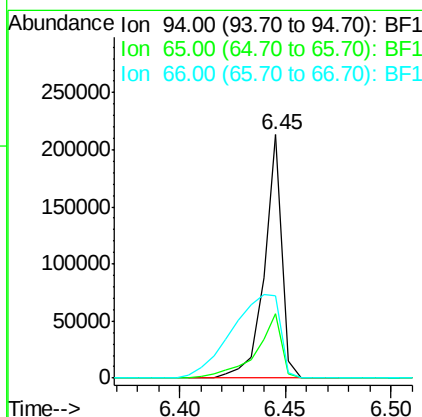
Tgt Ion: 94 Resp: 122773

Ion Ratio Lower Upper

94 100

65 26.7 7.9 47.9

66 33.8 16.2 56.2





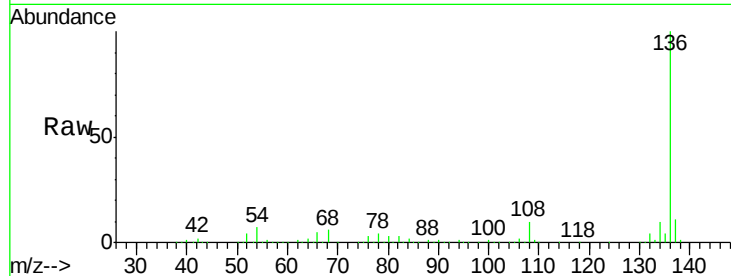
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

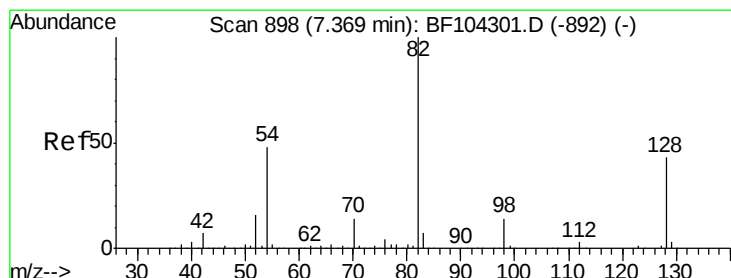
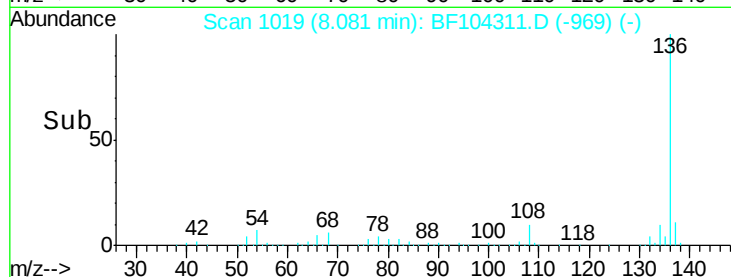
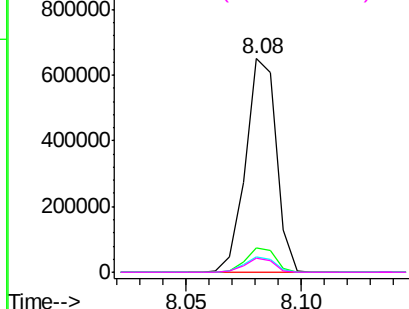
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 605478 |       |       |
| 137     | 11.3  |        | 8.9   | 13.3  |
| 54      | 7.5   |        | 6.6   | 9.8   |
| 68      | 6.5   |        | 5.0   | 7.4   |

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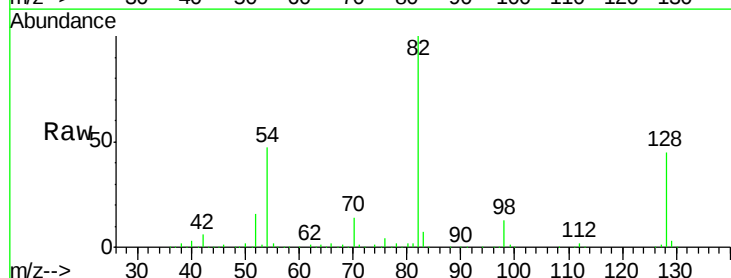


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

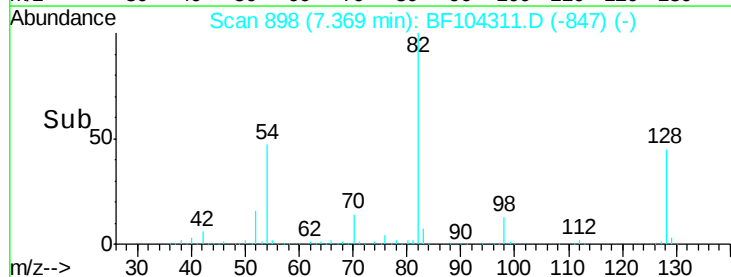
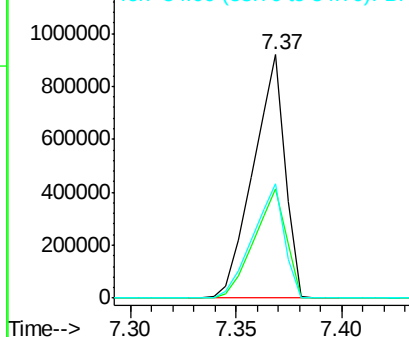


#23  
Nitrobenzene-d5  
Concen: 103.577 ng  
RT: 7.37 min Scan# 898  
Delta R.T. 0.00 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 960422 |       |       |
| 128     | 44.8  |        | 36.1  | 54.1  |
| 54      | 47.2  |        | 41.4  | 62.2  |



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





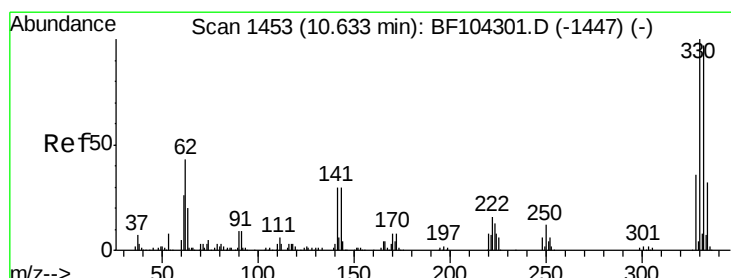
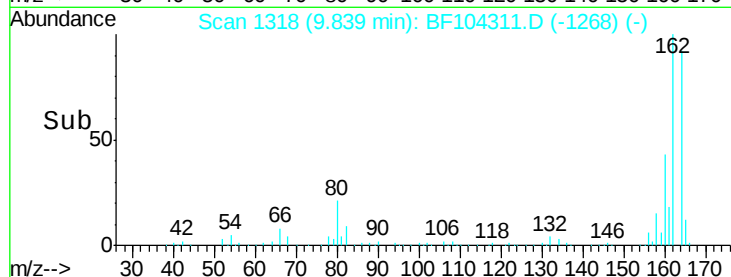
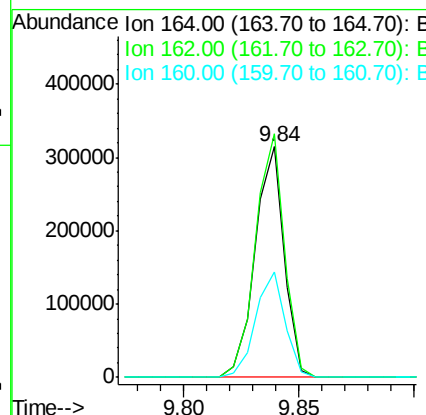
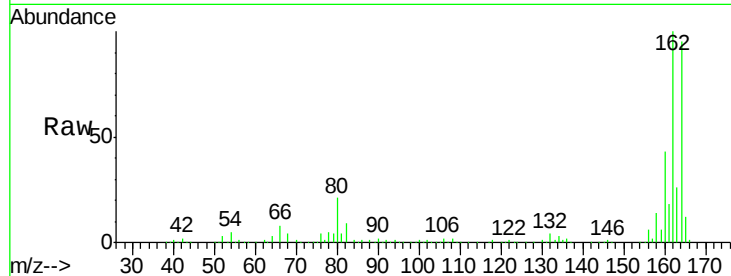
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 105.5 | 86.1 | 129.1 |       |
| 160     | 45.6  | 38.3 | 57.5  |       |

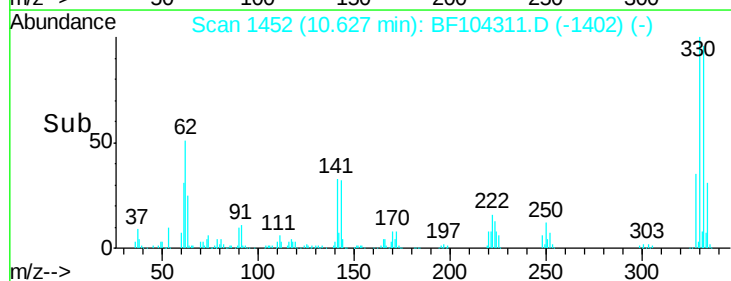
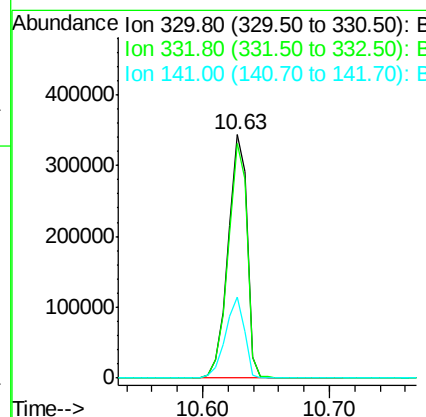
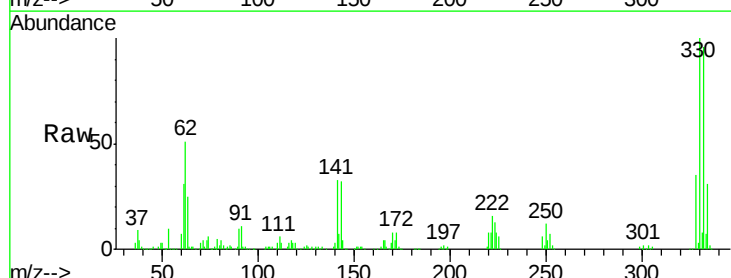
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#41  
2,4,6-Tribromophenol  
Concen: 124.481 ng  
RT: 10.63 min Scan# 1452  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.3  | 77.0 | 115.6 |       |
| 141     | 33.9  | 29.9 | 44.9  |       |





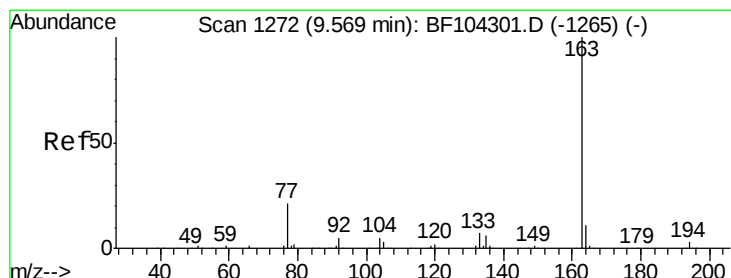
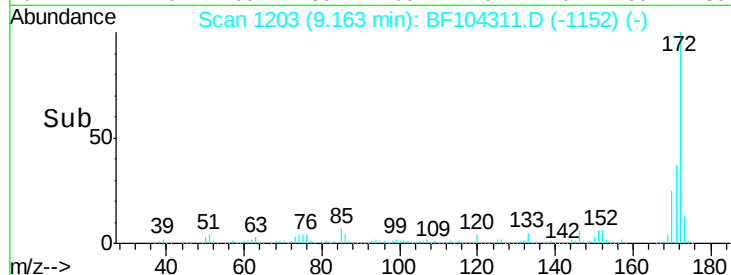
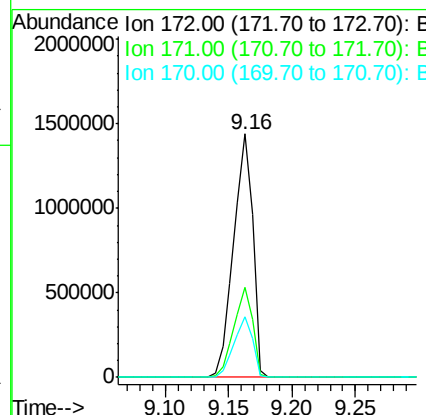
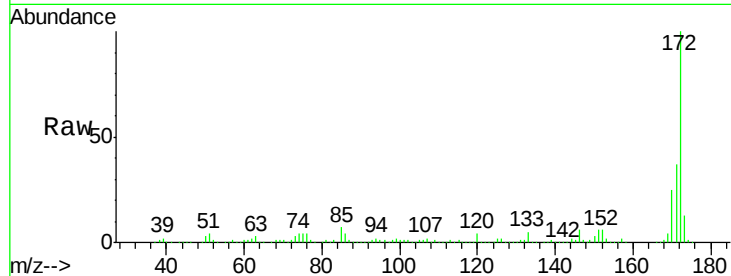
#44  
2-Fluorobiphenyl  
Concen: 85.545 ng  
RT: 9.16 min Scan# 1203  
Delta R.T. 0.00 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 172     | 100  |       |       |       |
| 171     | 37.0 | 29.7  | 44.5  |       |
| 170     | 25.0 | 19.6  | 29.4  |       |

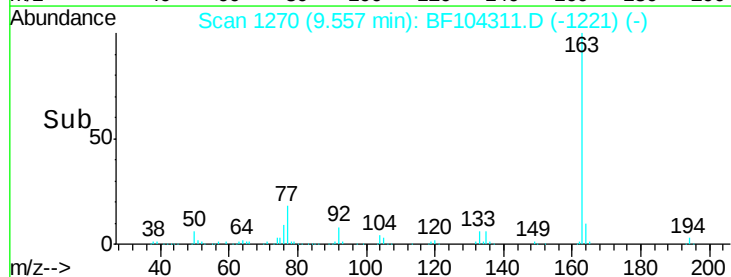
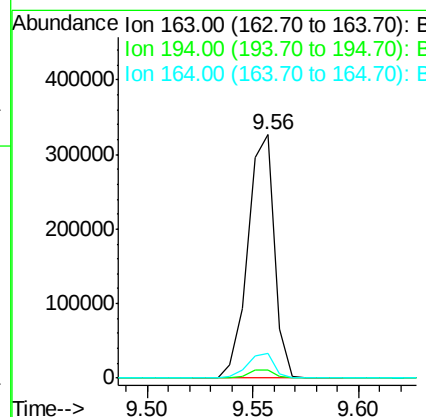
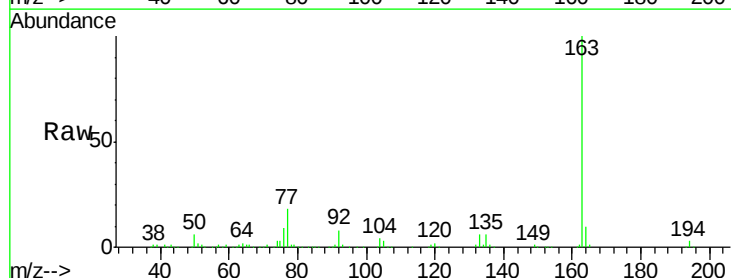
Manual Integrations  
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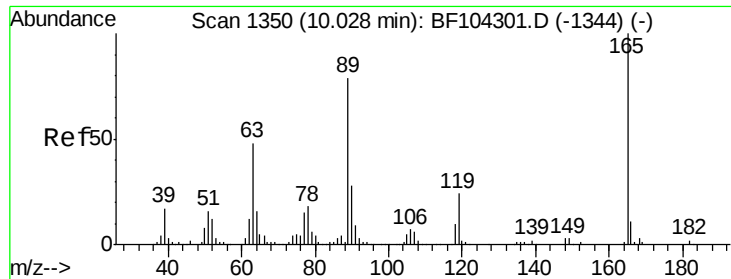
Sohil  
4/9/2018 11:18:25 AM



#49  
Dimethylphthalate  
Concen: 12.999 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 163     | 100  |       |       |       |
| 194     | 3.5  | 2.7   | 4.1   |       |
| 164     | 10.0 | 8.2   | 12.2  |       |





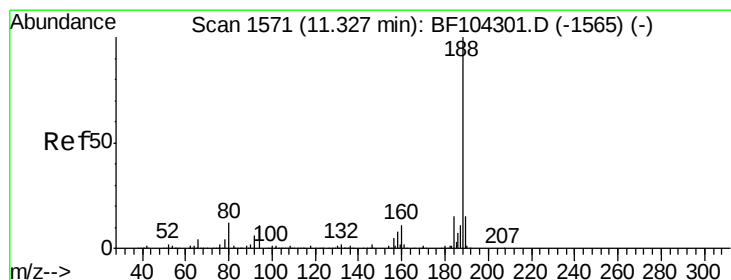
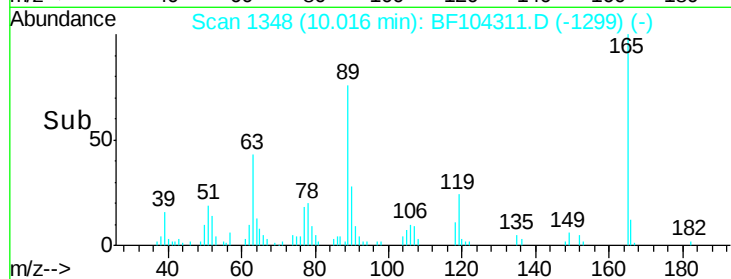
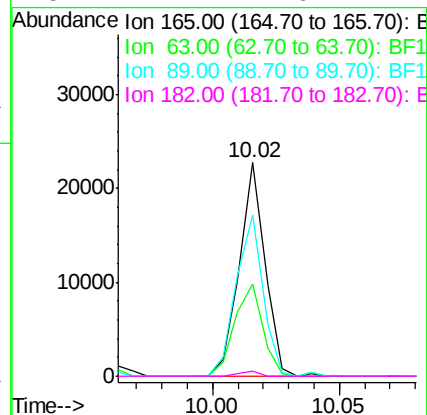
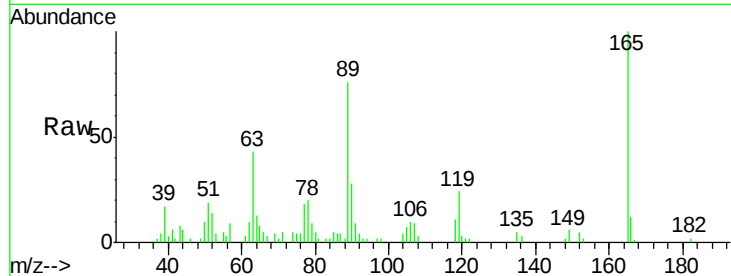
#56  
2,4-Dinitrotoluene  
Concen: 3.034 ng  
RT: 10.02 min Scan# 1348  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 165   | Resp: | 16070 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 43.4  | 36.4  | 54.6  |
| 89        | 75.7  | 57.8  | 86.6  |
| 182       | 2.4   | 1.6   | 2.4#  |

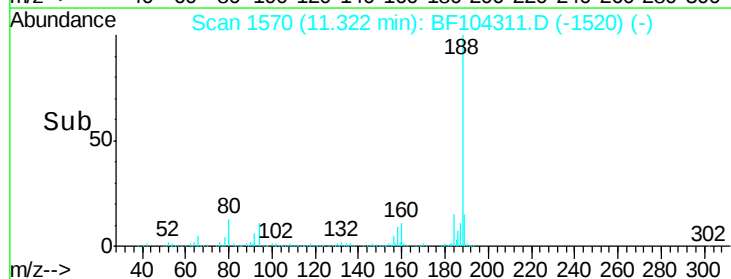
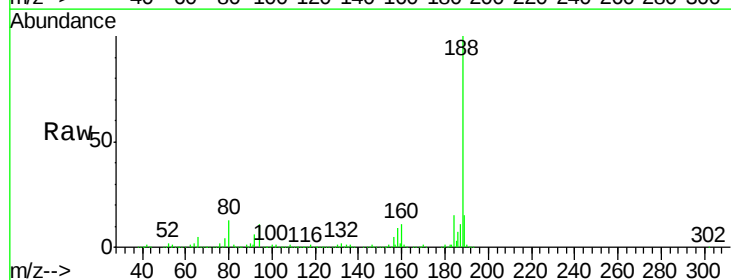
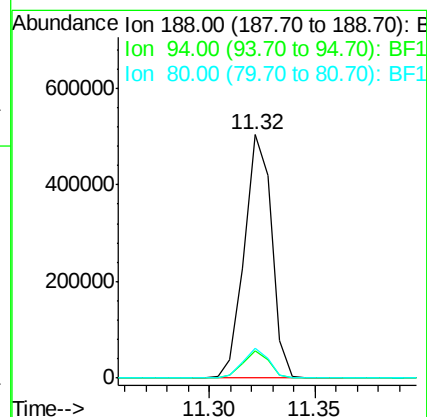
Manual Integrations  
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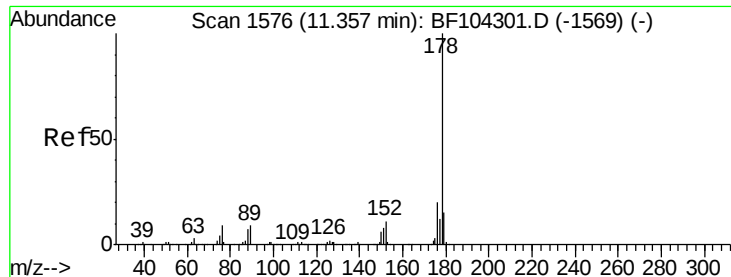
Sohil  
4/9/2018 11:18:25 AM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 450321 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.2  | 8.5   | 12.7   |
| 80        | 12.5  | 9.2   | 13.8   |





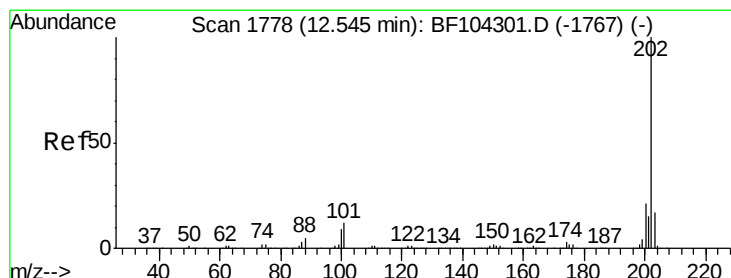
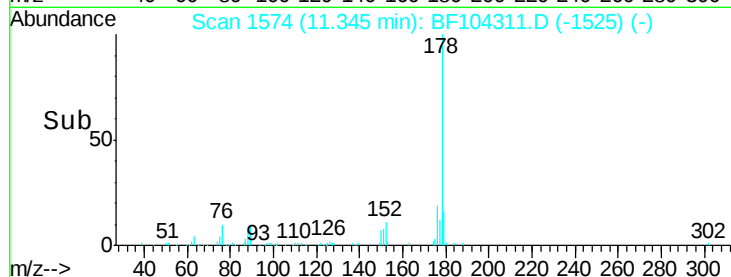
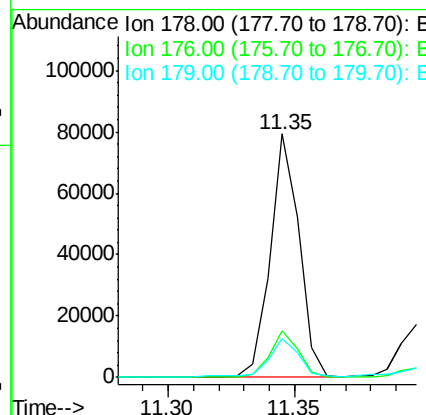
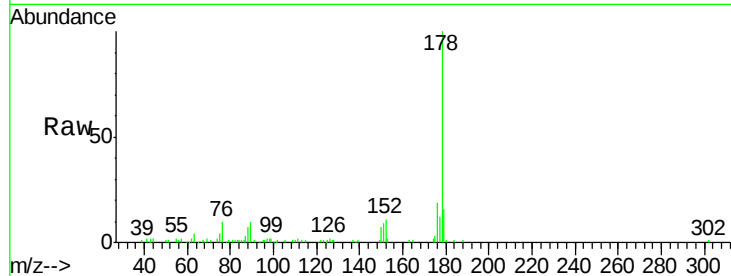
#70  
Phenanthrene  
Concen: 2.527 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampled :  
S-1-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 15.8  | 23.8  |
| 179     | 15.9  | 13.0  | 19.6  |

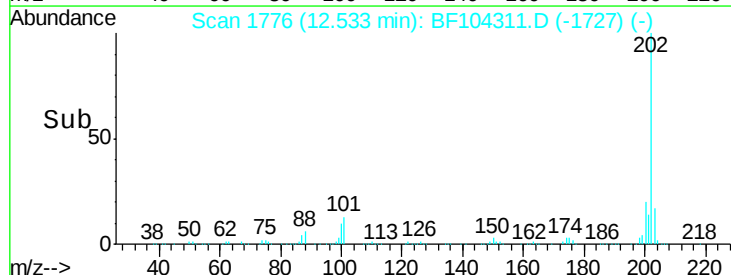
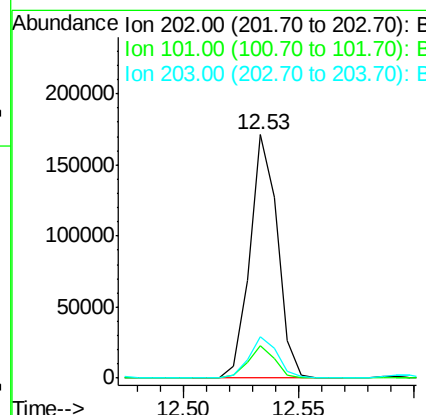
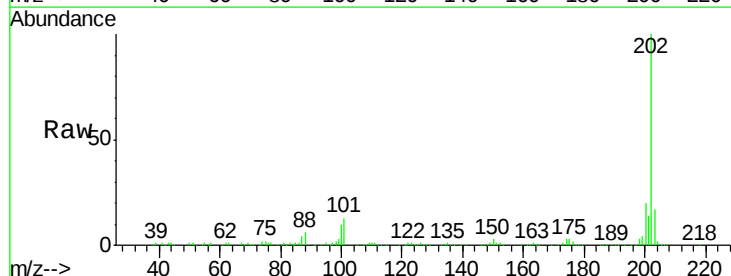
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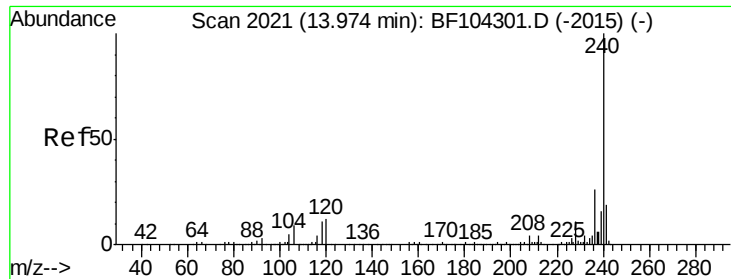
Sohil  
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#74  
Fluoranthene  
Concen: 5.461 ng  
RT: 12.53 min Scan# 1776  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.2  | 0.0   | 34.1  |
| 203     | 16.9  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF104311.D

Acq: 6 Apr 2018 17:56

Instrument :

BNA\_F

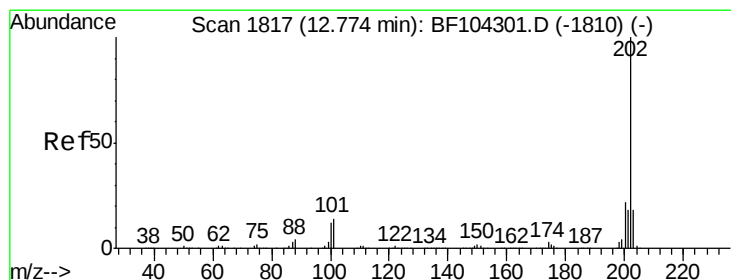
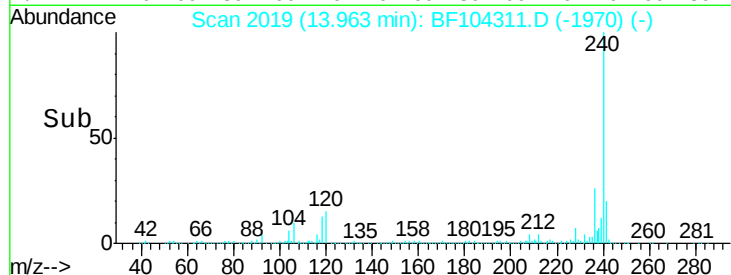
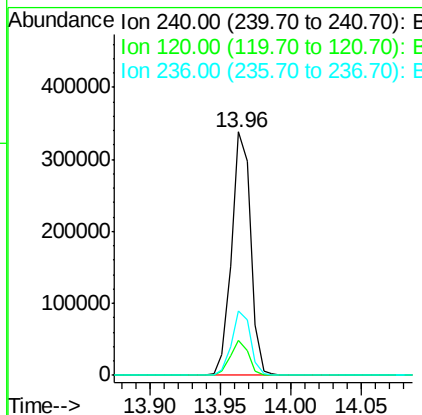
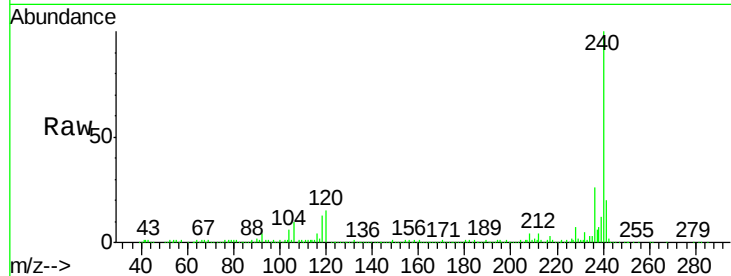
ClientSampleId :

S-1-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 318773 |       |       |
| 120     | 14.6  | 9.5    | 14.3# |       |
| 236     | 26.4  | 20.7   | 31.1  |       |

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#77

Pyrene

Concen: 5.373 ng

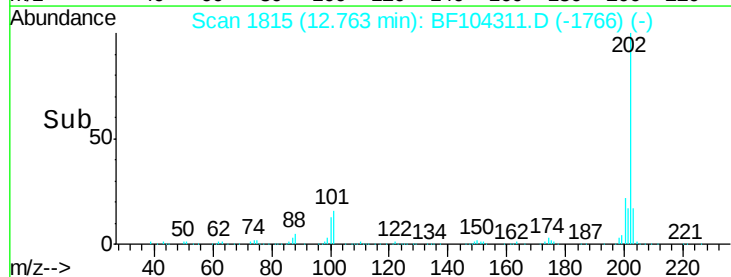
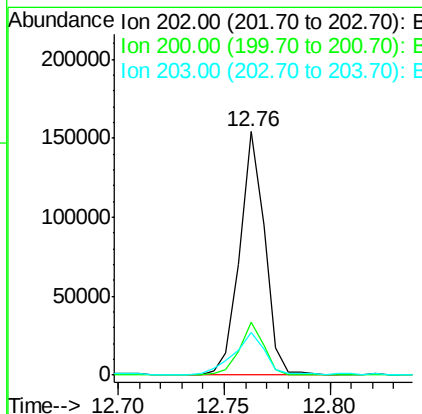
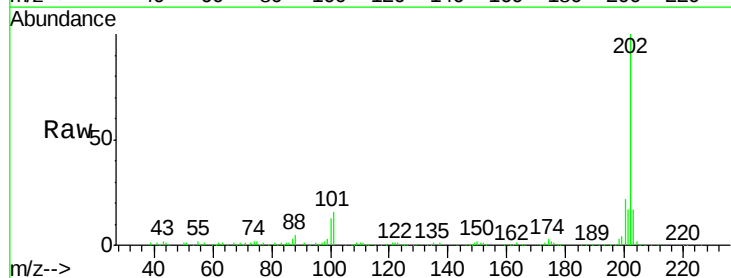
RT: 12.76 min Scan# 1815

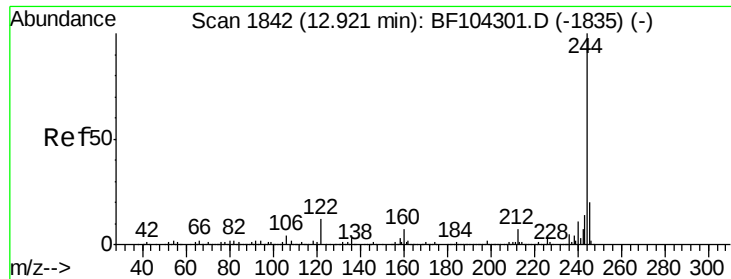
Delta R.T. -0.01 min

Lab File: BF104311.D

Acq: 6 Apr 2018 17:56

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 126947 |       |       |
| 200     | 21.8  | 17.4   | 26.2  |       |
| 203     | 17.3  | 14.3   | 21.5  |       |





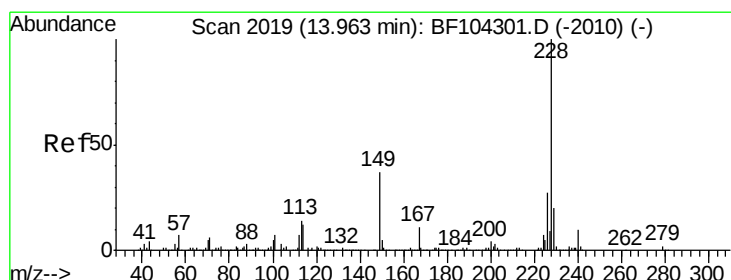
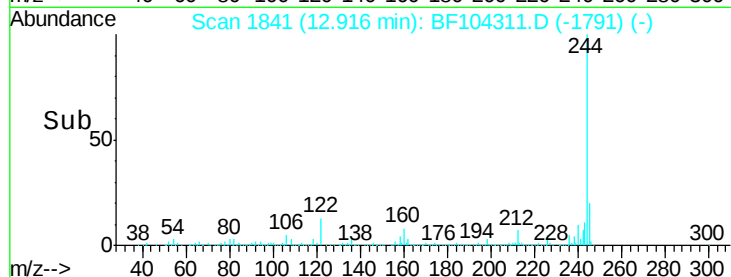
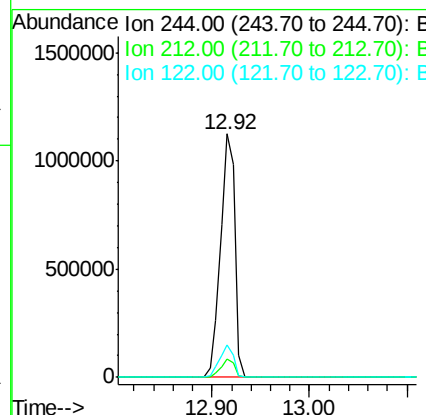
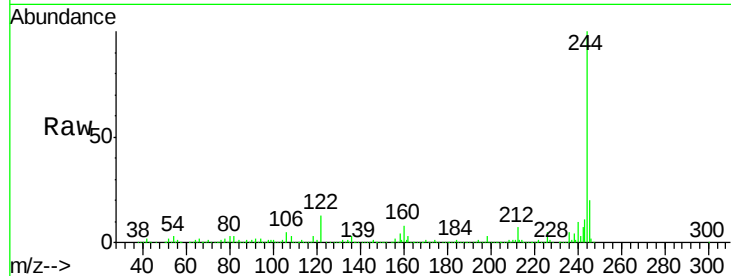
#78  
 Terphenyl-d14  
 Concen: 81.836 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.01 min  
 Lab File: BF104311.D  
 Acq: 6 Apr 2018 17:56

Instrument :  
 BNA\_F  
 ClientSampled :  
 S-1-COMP

Tot Ion:244 Resp: 1144252  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.4 8.0  
 122 13.5 11.0 16.4

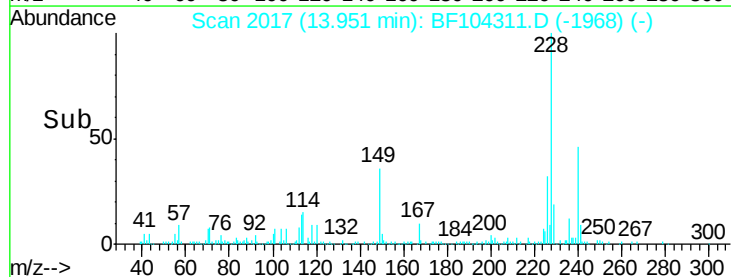
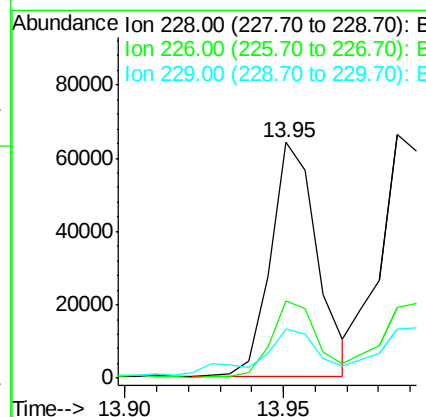
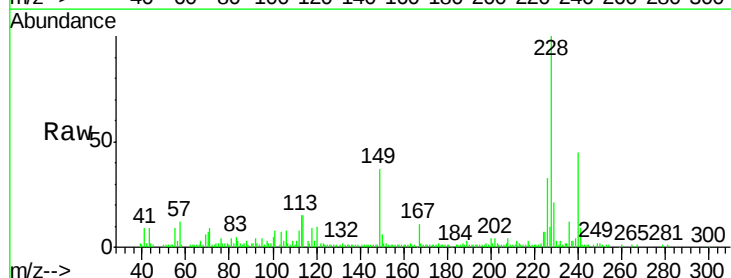
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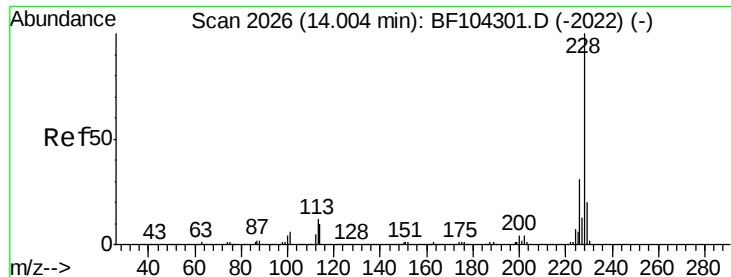
Sohil  
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#80  
 Benzo(a)anthracene  
 Concen: 3.429 ng  
 RT: 13.95 min Scan# 2017  
 Delta R.T. -0.01 min  
 Lab File: BF104311.D  
 Acq: 6 Apr 2018 17:56

Tgt Ion:228 Resp: 65310  
 Ion Ratio Lower Upper  
 228 100  
 226 33.0 22.6 33.8  
 229 20.8 15.8 23.6





#82

Chrysene

Concen: 3.458 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.02 min

Lab File: BF104311.D

Acq: 6 Apr 2018 17:56

Instrument :

BNA\_F

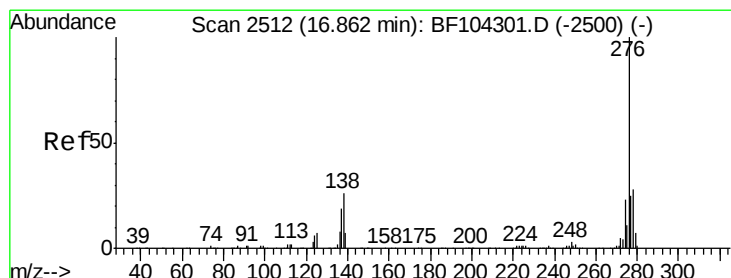
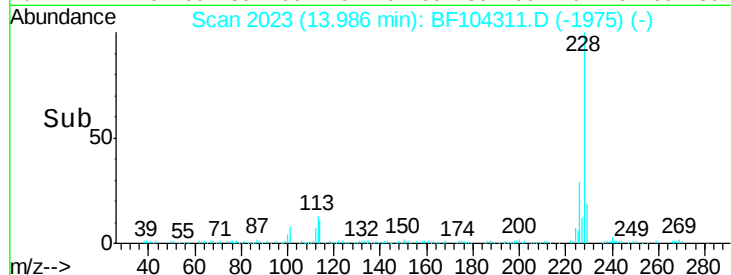
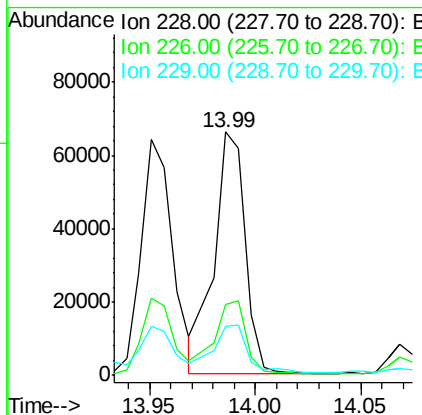
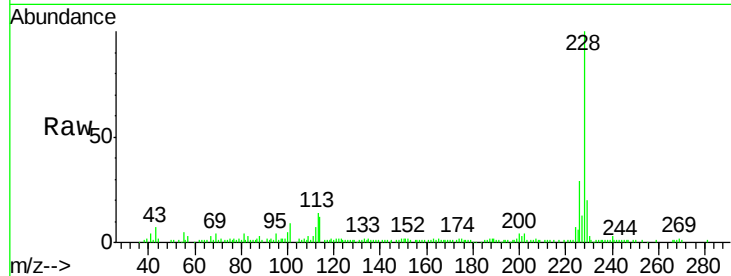
ClientSampled :

S-1-COMP

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 67646 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 29.2  | 25.0  | 37.6  |
| 229      | 20.2  | 16.2  | 24.4  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.816 ng

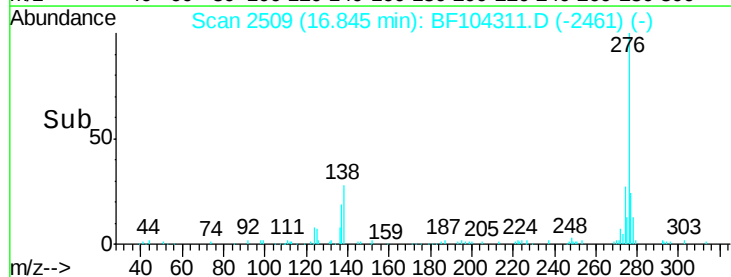
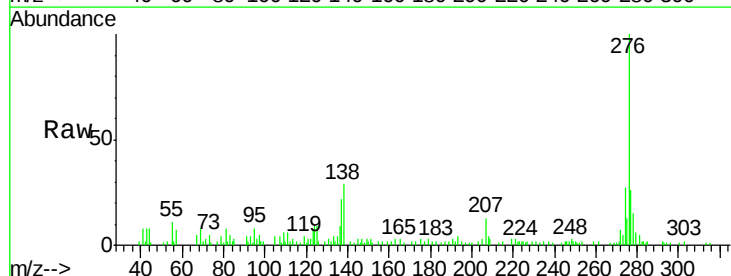
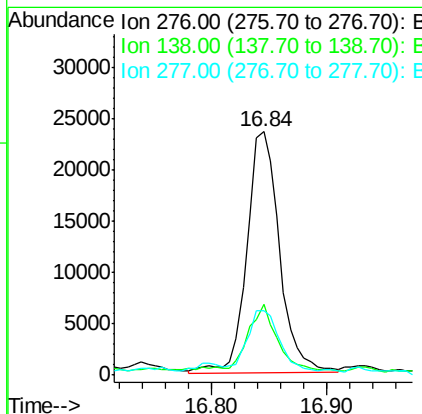
RT: 16.84 min Scan# 2509

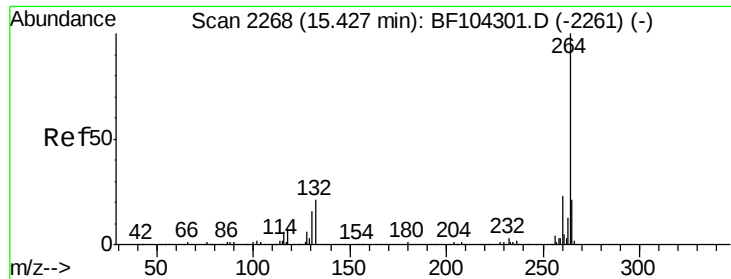
Delta R.T. -0.02 min

Lab File: BF104311.D

Acq: 6 Apr 2018 17:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 46794 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 25.8  | 25.0  | 37.6  |
| 277      | 26.1  | 20.1  | 30.1  |





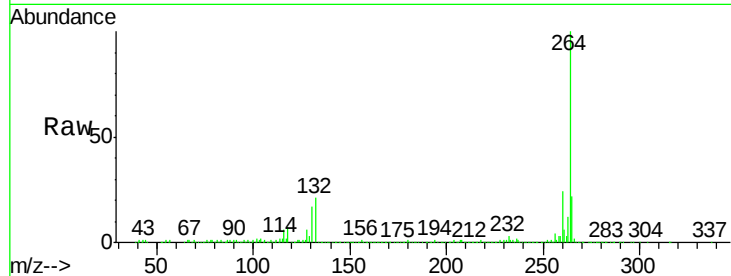
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 264     | 100  |       |      |       |       |
| 260     | 23.5 | 19.2  | 28.8 |       |       |
| 265     | 21.9 | 17.5  | 26.3 |       |       |

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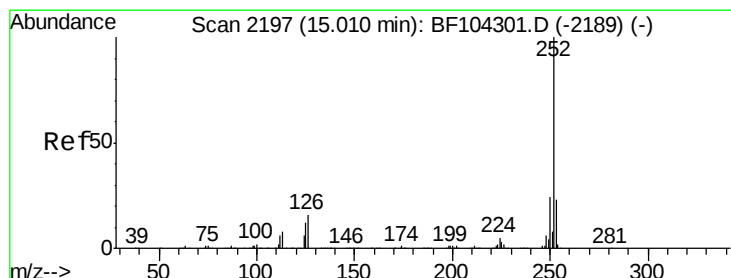
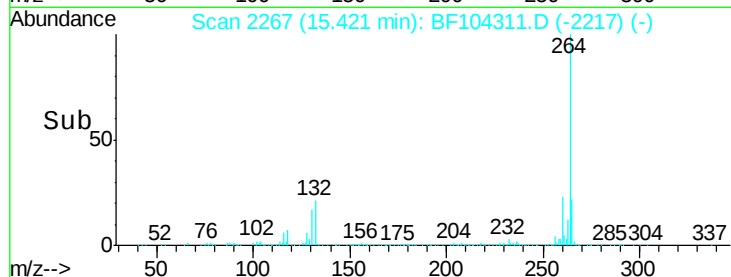
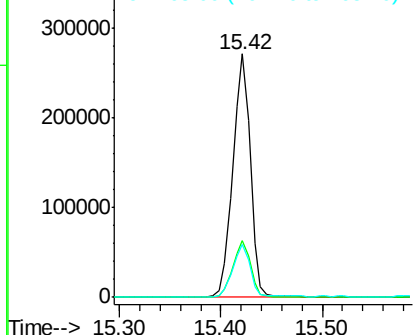


Abundance

Ion 264.00 (263.70 to 264.70): E

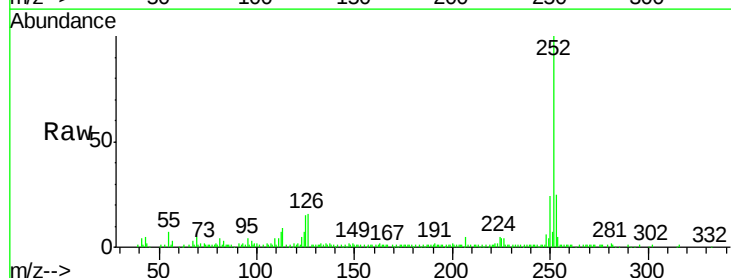
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87  
Benzo(b)fluoranthene  
Concen: 5.159 ng m  
RT: 15.00 min Scan# 2195  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 252     | 100  |       |       |       |       |
| 253     | 24.5 | 17.0  | 25.6  |       |       |
| 125     | 15.0 | 9.0   | 13.6# |       |       |

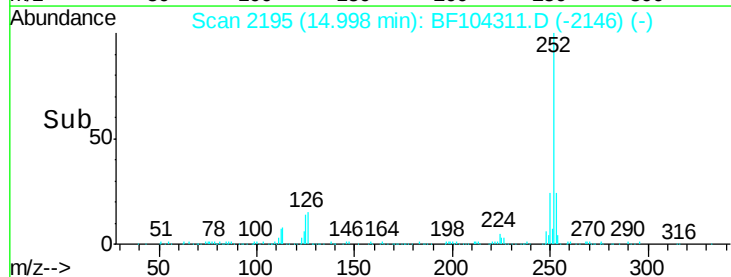
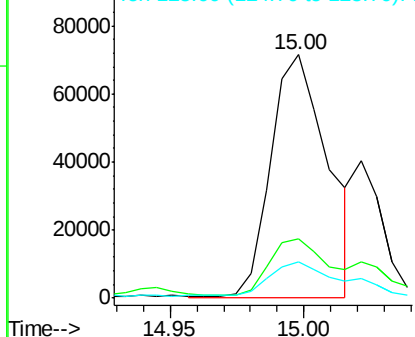


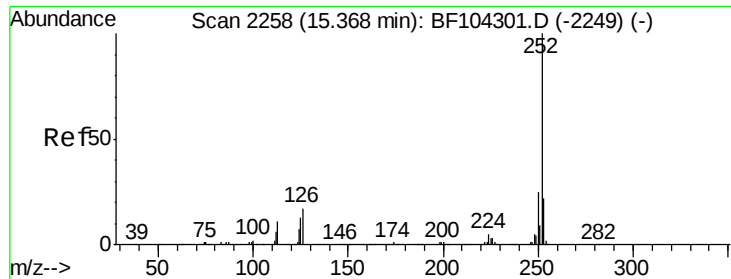
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





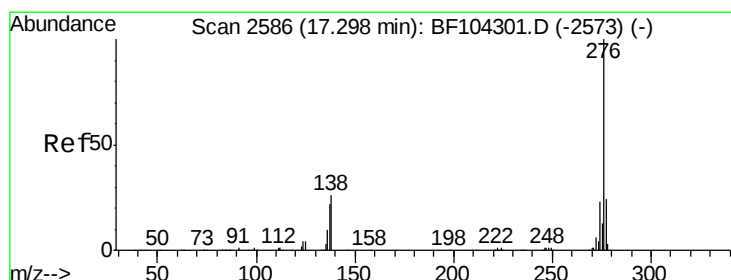
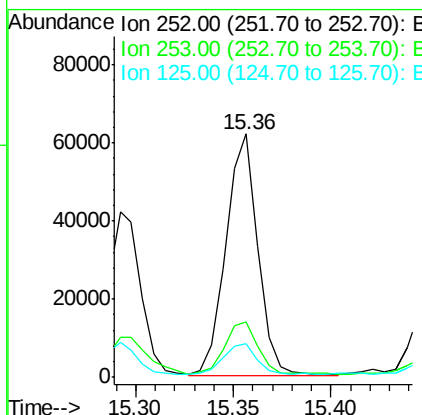
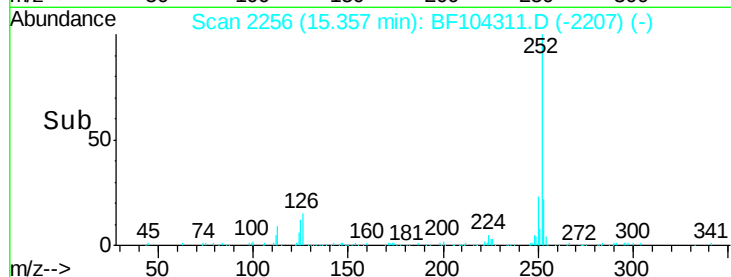
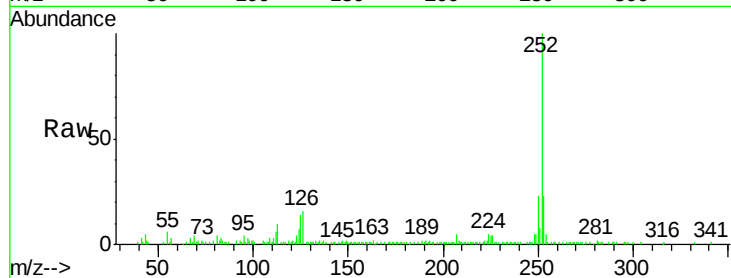
#89  
Benzo(a)pyrene  
Concen: 3.780 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. -0.01 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

Instrument :  
BNA\_F  
ClientSampleId :  
S-1-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.1  | 25.7  |
| 125     | 13.7  | 9.8   | 14.6  |

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#91  
Benzo(g,h,i)perylene  
Concen: 2.973 ng  
RT: 17.27 min Scan# 2582  
Delta R.T. -0.02 min  
Lab File: BF104311.D  
Acq: 6 Apr 2018 17:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.7  | 17.9  | 26.9  |
| 138     | 27.6  | 21.8  | 32.8  |

