

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF022818\  
 Data File : BF103302.D  
 Acq On : 28 Feb 2018 19:24  
 Operator : SJ/JU  
 Sample : J1710-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-242

Manual Integrations  
 APPROVED

Sohil  
 3/1/2018 11:43:13 AM

Quant Time: Mar 01 00:49:18 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 27 17:05:20 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|--------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.87  | 152  | 154102   | 20.00  | ng    | 0.00       |
| 21) Naphthalene-d8          | 8.16  | 136  | 644117   | 20.00  | ng    | 0.00       |
| 38) Acenaphthene-d10        | 9.91  | 164  | 274415   | 20.00  | ng    | 0.00       |
| 63) Phenanthrene-d10        | 11.40 | 188  | 407391   | 20.00  | ng    | 0.00       |
| 75) Chrysene-d12            | 14.06 | 240  | 257658   | 20.00  | ng    | 0.00       |
| 86) Perylene-d12            | 15.56 | 264  | 254018   | 20.00  | ng    | 0.00       |
| System Monitoring Compounds |       |      |          |        |       |            |
| 5) 2-Fluorophenol           | 5.50  | 112  | 1035589  | 101.64 | ng    | 0.00       |
| 7) Phenol-d6                | 6.51  | 99   | 1260048  | 101.06 | ng    | 0.00       |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 866963   | 76.87  | ng    | 0.00       |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330  | 194667   | 83.81  | ng    | 0.00       |
| 44) 2-Fluorobiphenyl        | 9.23  | 172  | 1134068  | 67.80  | ng    | 0.00       |
| 78) Terphenyl-d14           | 12.99 | 244  | 704497   | 65.73  | ng    | 0.00       |
| Target Compounds            |       |      |          |        |       |            |
| 49) Dimethylphthalate       | 9.62  | 163  | 113925   | 5.175  | ng    | Qvalue 100 |
| 70) Phenanthrene            | 11.43 | 178  | 95371    | 4.254  | ng    | 99         |
| 74) Fluoranthene            | 12.62 | 202  | 340480   | 15.113 | ng    | 99         |
| 77) Pyrene                  | 12.85 | 202  | 312095   | 15.536 | ng    | 99         |
| 80) Benzo(a)anthracene      | 14.04 | 228  | 154736   | 9.256  | ng    | 98         |
| 82) Chrysene                | 14.08 | 228  | 146664   | 9.035  | ng    | 96         |
| 85) Indeno(1,2,3-cd)pyrene  | 17.08 | 276  | 73208    | 5.697  | ng    | 98         |
| 87) Benzo(b)fluoranthene    | 15.12 | 252  | 213873m  | 12.806 | ng    |            |
| 88) Benzo(k)fluoranthene    | 15.14 | 252  | 62508m   | 3.975  | ng    |            |
| 89) Benzo(a)pyrene          | 15.49 | 252  | 138219   | 9.267  | ng    | # 96       |
| 91) Benzo(g,h,i)perylene    | 17.54 | 276  | 66215    | 5.879  | ng    | 93         |

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

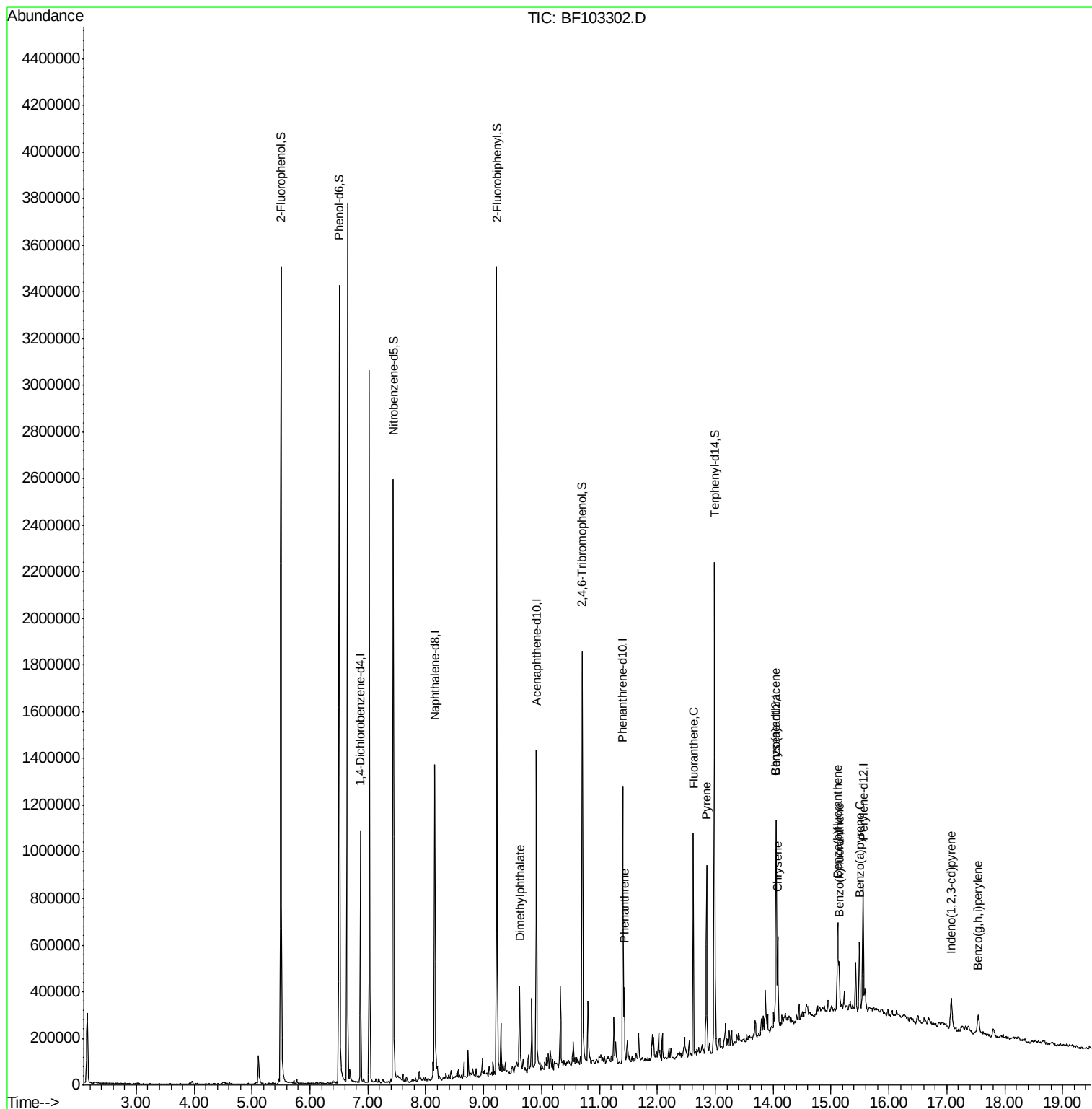
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF022818\  
Data File : BF103302.D  
Acq On : 28 Feb 2018 19:24  
Operator : SJ/JU  
Sample : J1710-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-242

Manual Integrations  
APPROVED

Sohil  
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Quant Time: Mar 01 00:49:18 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Feb 27 17:05:20 2018  
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#1

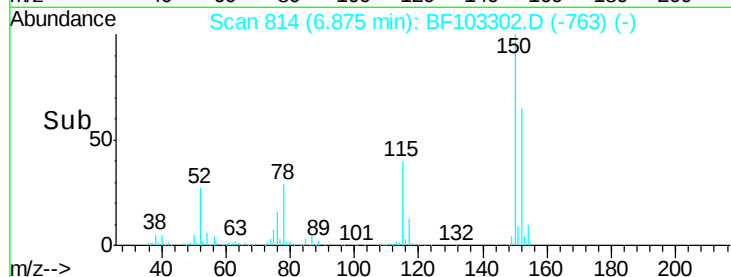
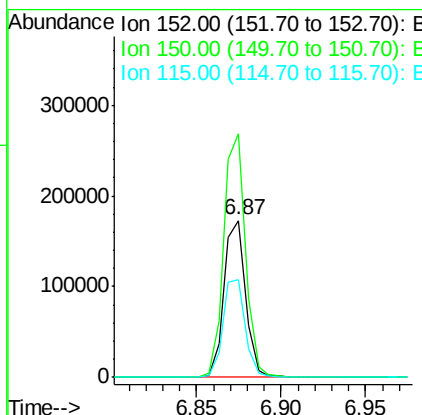
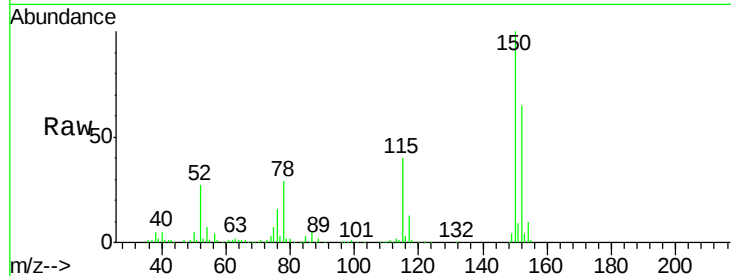
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 814  
Delta R.T. 0.00 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

Instrument :  
BNA\_F  
ClientSampled :  
RO-242

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.9 | 124.6 | 186.8 |
| 115     | 62.2  | 50.1  | 75.1  |

Manual Integrations  
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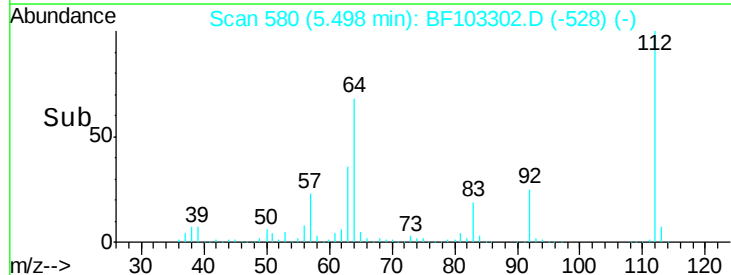
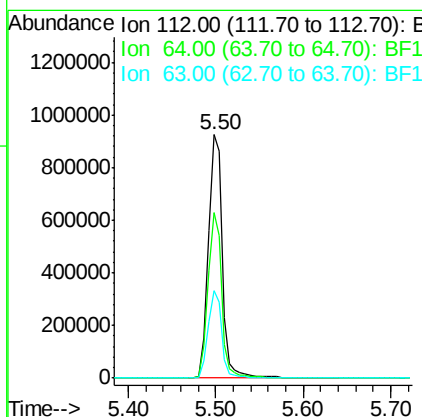
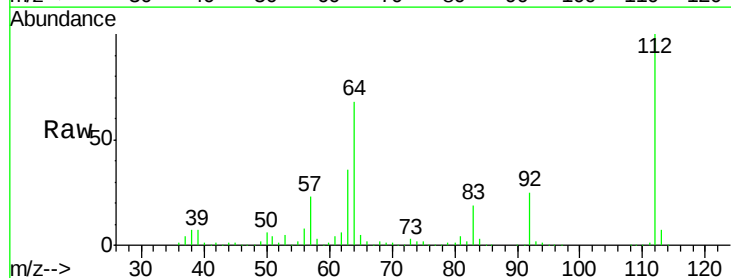
Sohil  
3/1/2018 11:43:13 AM

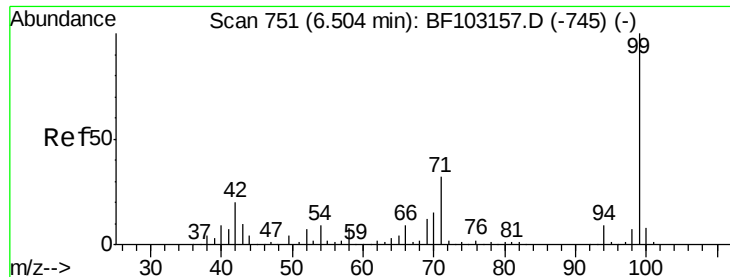


#5

2-Fluorophenol  
Concen: 101.638 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.01 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.0  | 47.9  | 71.9  |
| 63      | 36.0  | 23.7  | 35.5# |





#7

Phenol-d6

Concen: 101.064 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: BF103302.D

Acq: 28 Feb 2018 19:24

Instrument :

BNA\_F

ClientSampleId :

RO-242

Tot Ion: 99 Resp: 1260048

Ion Ratio Lower Upper

99 100

42 21.4 14.5 21.7

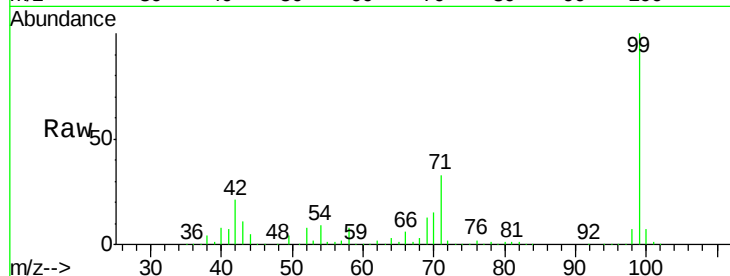
71 33.3 25.4 38.0

Manual Integrations

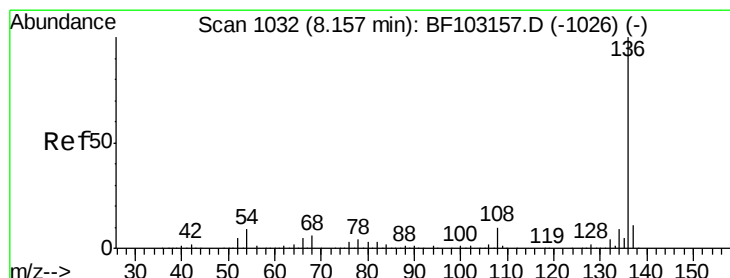
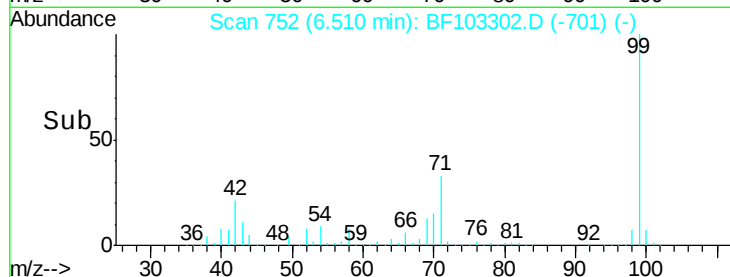
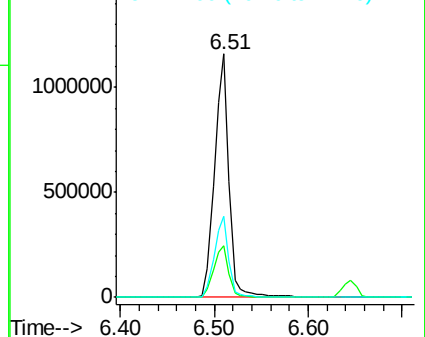
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF103302.D

Acq: 28 Feb 2018 19:24

Tgt Ion: 136 Resp: 644117

Ion Ratio Lower Upper

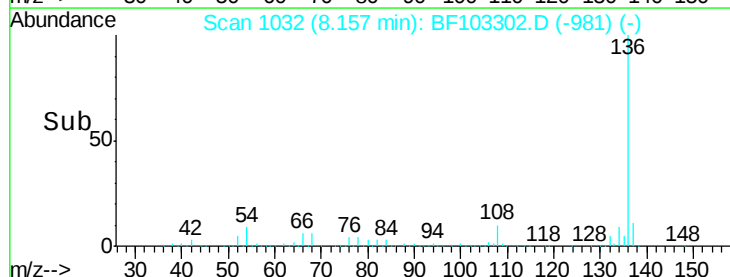
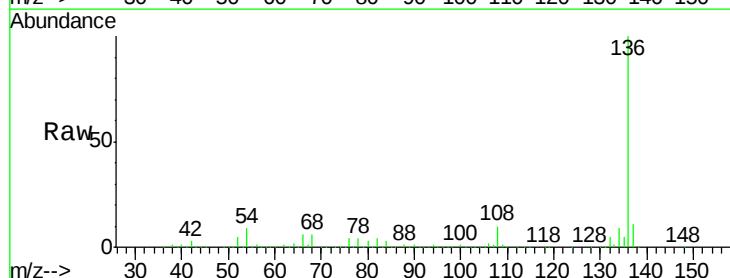
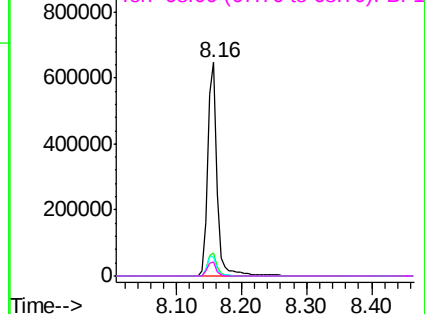
136 100

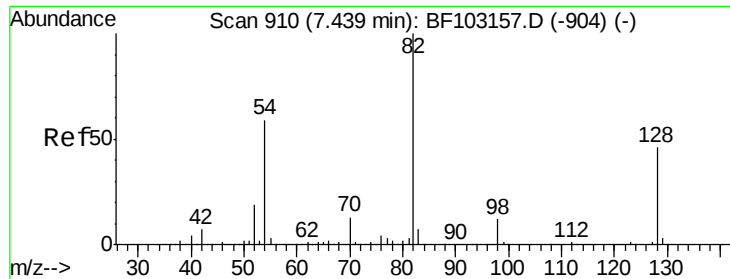
137 11.0 8.9 13.3

54 8.9 6.6 9.8

68 6.4 5.0 7.4

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





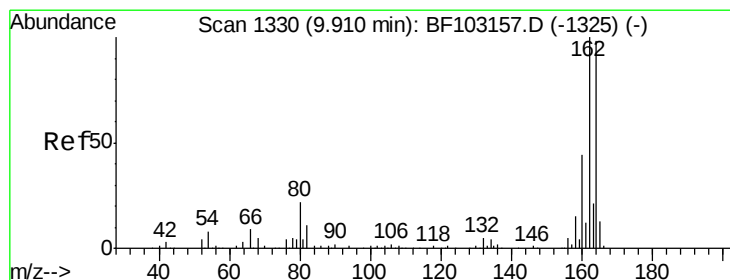
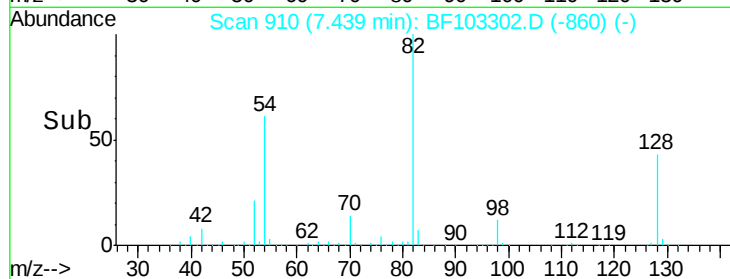
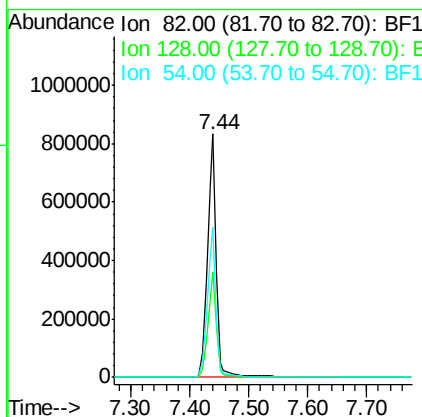
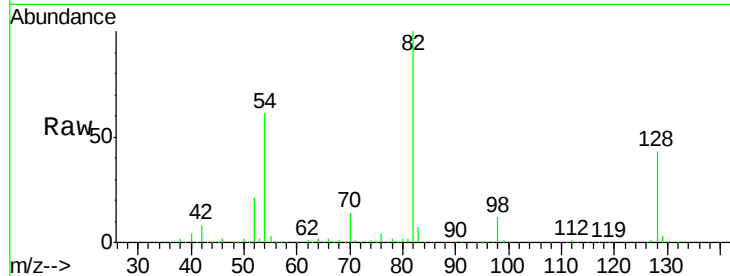
#23  
 Nitrobenzene-d5  
 Concen: 76.866 ng  
 RT: 7.44 min Scan# 910  
 Delta R.T. -0.01 min  
 Lab File: BF103302.D  
 Acq: 28 Feb 2018 19:24

Instrument :  
 BNA\_F  
 ClientSampled :  
 RO-242

| Tot Ion   | 82   | Resp  | 866963 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 82        | 100  |       |        |
| 128       | 43.5 | 36.1  | 54.1   |
| 54        | 61.5 | 41.4  | 62.2   |

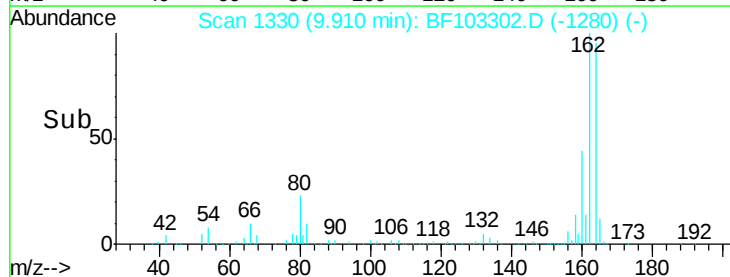
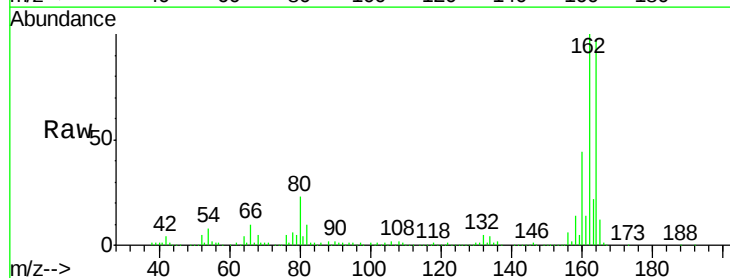
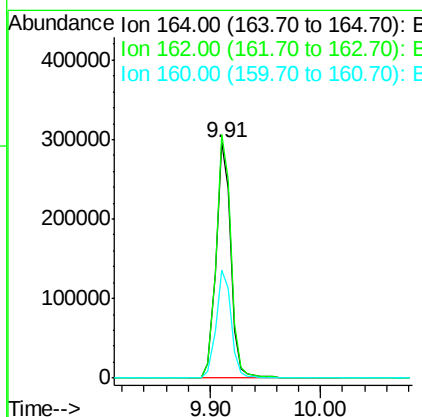
Manual Integrations  
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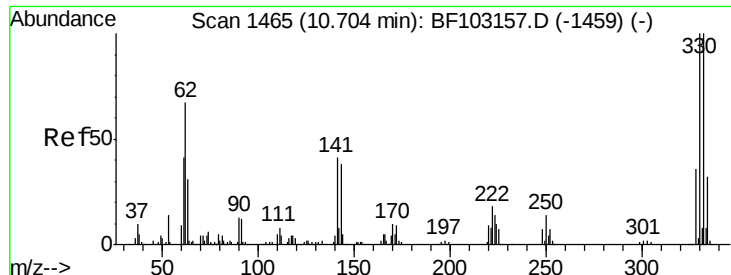
Sohil  
 3/1/2018 11:43:13 AM



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.01 min  
 Lab File: BF103302.D  
 Acq: 28 Feb 2018 19:24

| Tgt Ion   | 164   | Resp  | 274415 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 164       | 100   |       |        |
| 162       | 103.4 | 86.1  | 129.1  |
| 160       | 45.8  | 38.3  | 57.5   |





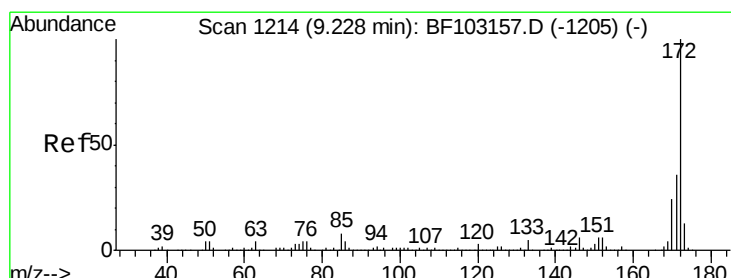
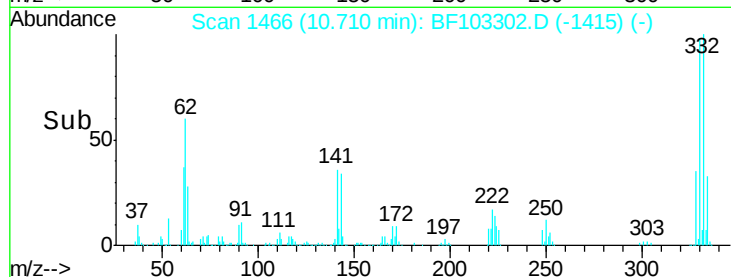
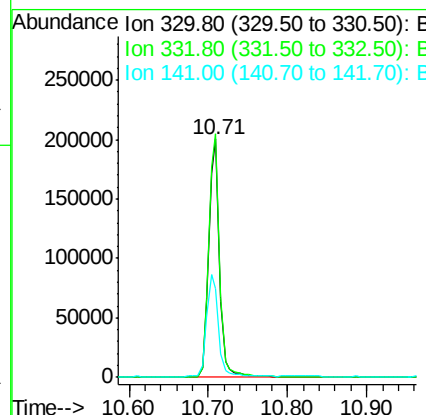
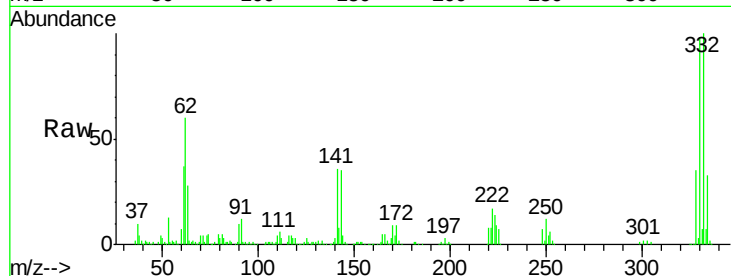
#41  
 2,4,6-Tribromophenol  
 Concen: 83.808 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. 0.00 min  
 Lab File: BF103302.D  
 Acq: 28 Feb 2018 19:24

Instrument :  
 BNA\_F  
 ClientSampled :  
 RO-242

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 103.1 | 77.0 | 115.6 |       |
| 141     | 47.3  | 29.9 | 44.9  |       |

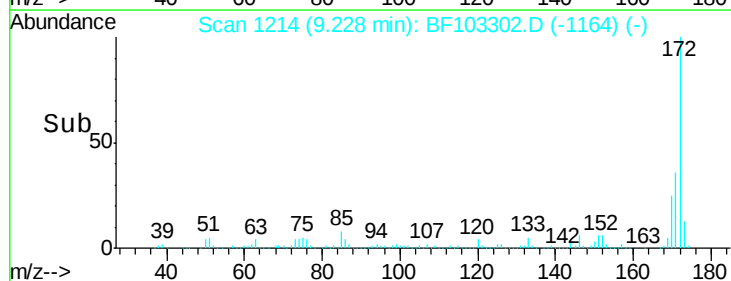
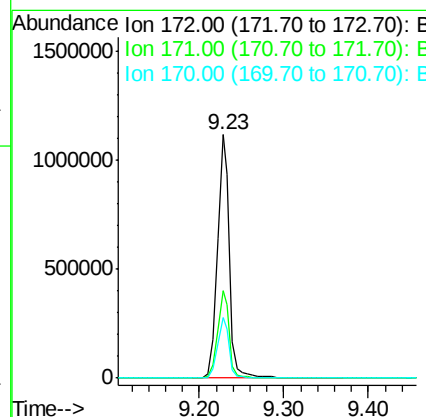
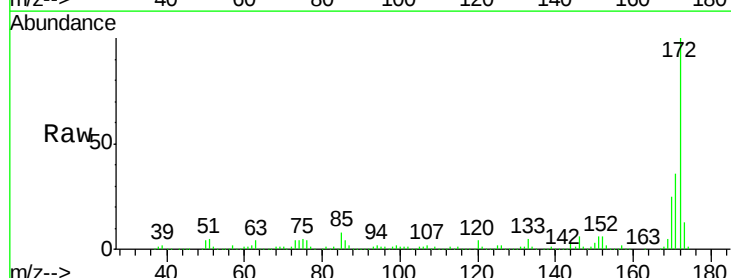
Manual Integrations  
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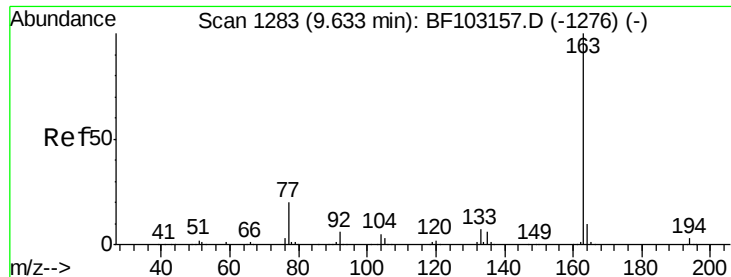
Sohil  
 3/1/2018 11:43:13 AM



#44  
 2-Fluorobiphenyl  
 Concen: 67.797 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF103302.D  
 Acq: 28 Feb 2018 19:24

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 35.8  | 29.7 | 44.5  |       |
| 170     | 24.9  | 19.6 | 29.4  |       |





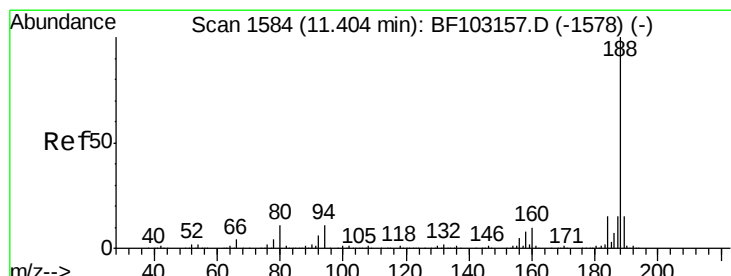
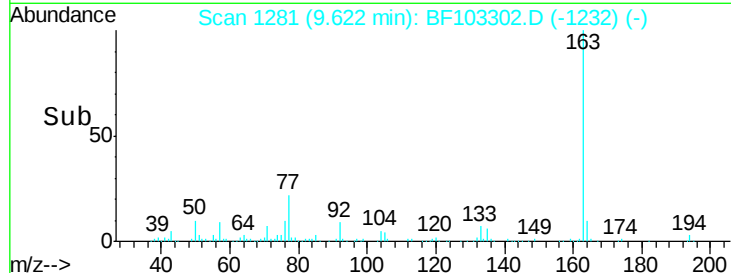
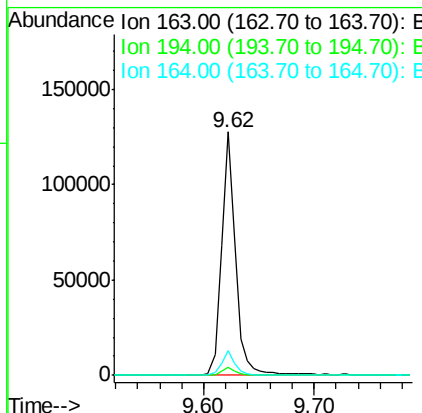
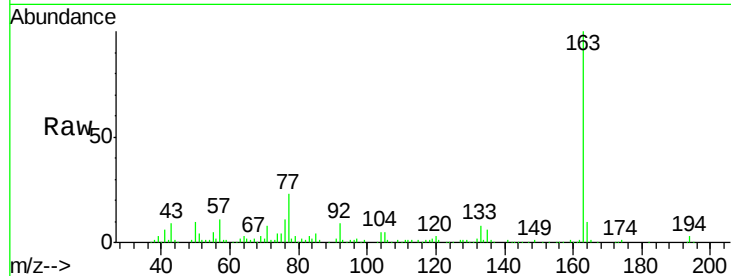
#49  
Dimethylphthalate  
Concen: 5.175 ng  
RT: 9.62 min Scan# 1281  
Delta R.T. -0.01 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
RO-242

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 113925 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.1   | 2.7   | 4.1    |
| 164       | 10.2  | 8.2   | 12.2   |

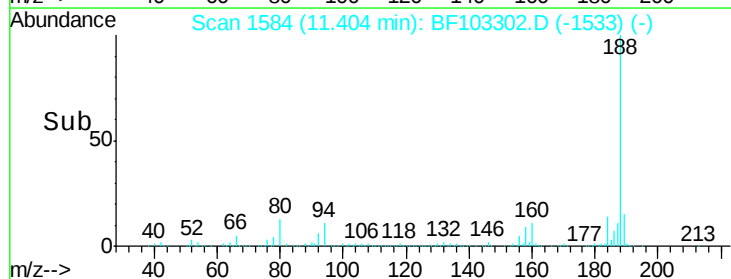
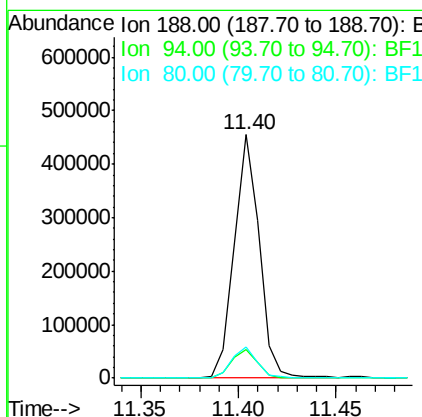
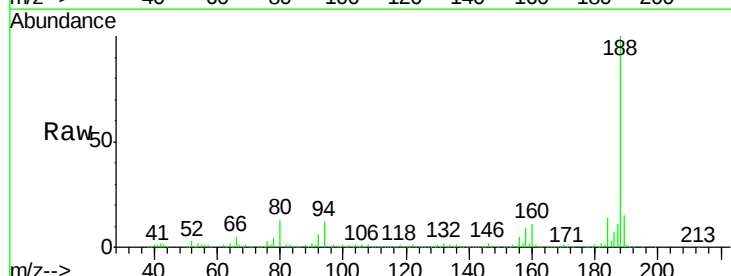
Manual Integrations  
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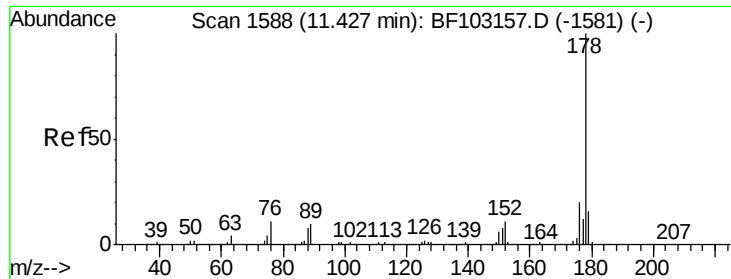
Sohil  
3/1/2018 11:43:13 AM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. 0.00 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 407391 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.6  | 8.5   | 12.7   |
| 80        | 12.7  | 9.2   | 13.8   |





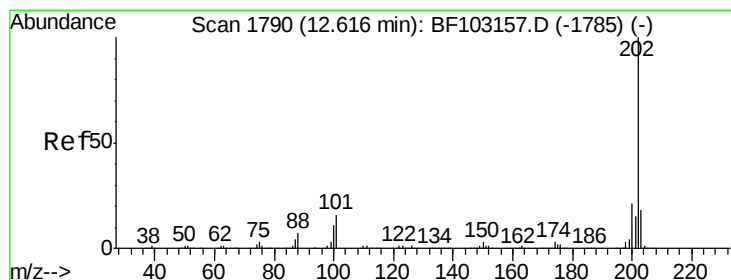
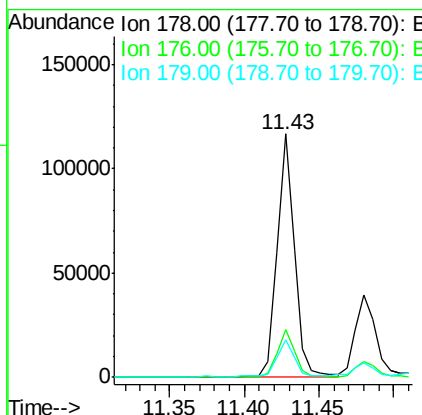
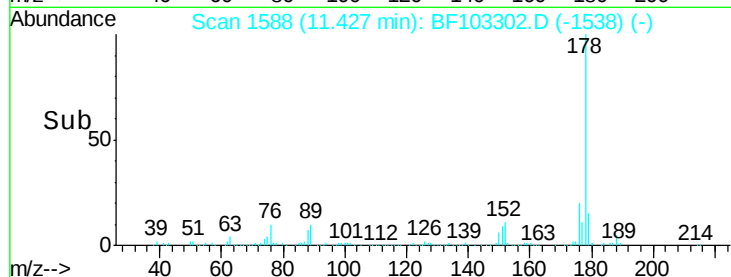
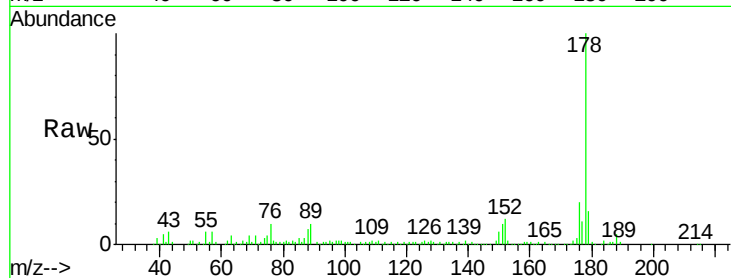
#70  
Phenanthrene  
Concen: 4.254 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
RO-242

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 15.8  | 23.8  |
| 179     | 15.5  | 13.0  | 19.6  |

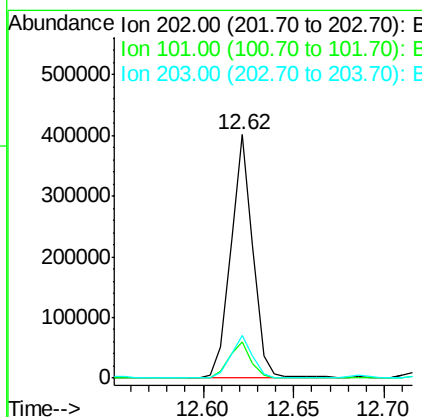
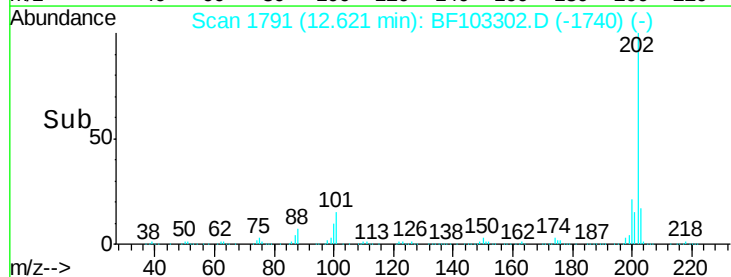
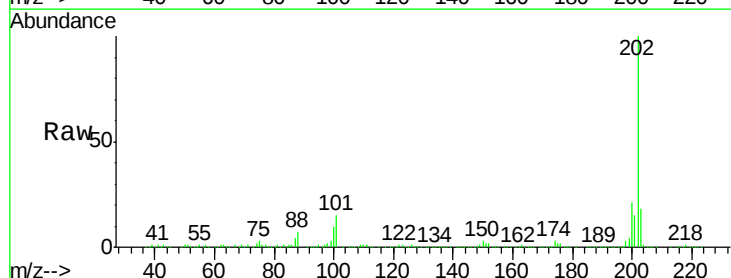
Manual Integrations  
APPROVED

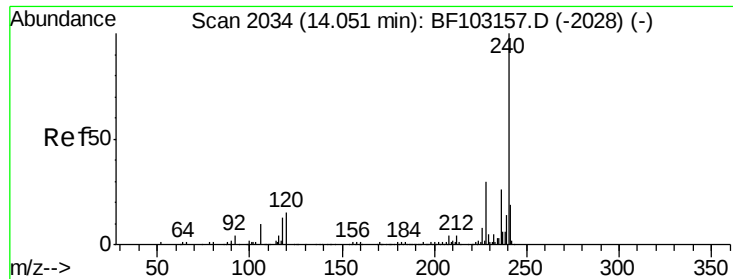
Sohil  
3/1/2018 11:43:13 AM



#74  
Fluoranthene  
Concen: 15.113 ng  
RT: 12.62 min Scan# 1791  
Delta R.T. 0.00 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.6  | 0.0   | 34.1  |
| 203     | 17.6  | 0.0   | 38.1  |





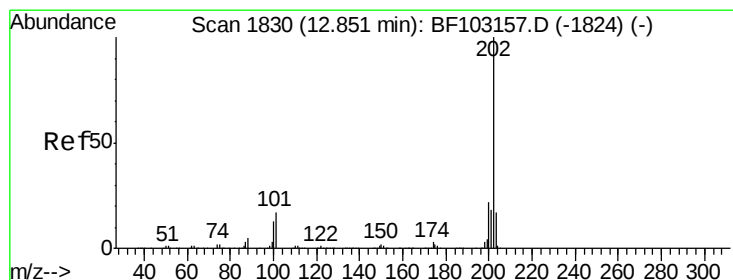
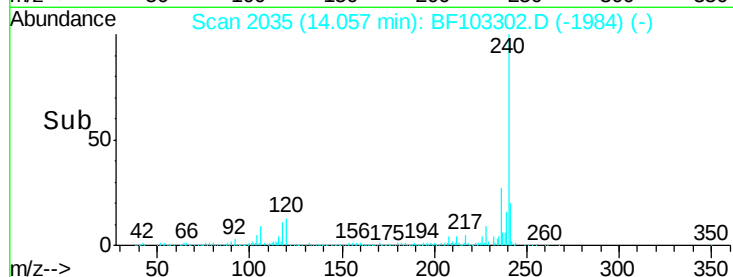
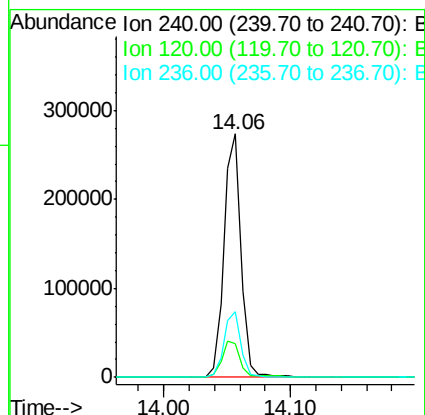
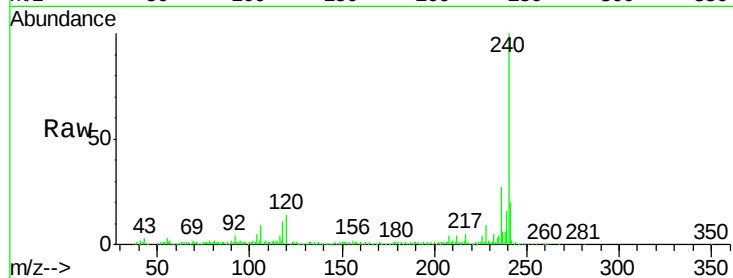
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. 0.00 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

Instrument :  
BNA\_F  
ClientSampleId :  
RO-242

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.6  | 9.5   | 14.3  |
| 236     | 27.0  | 20.7  | 31.1  |

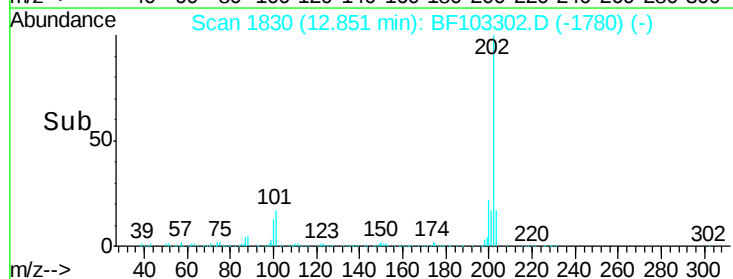
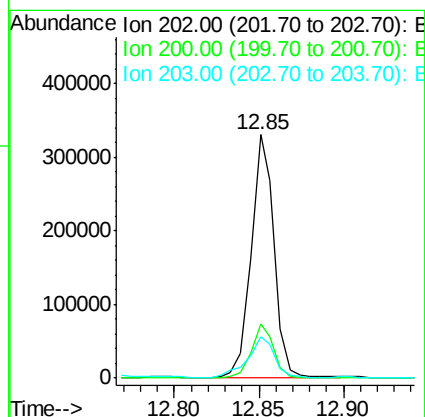
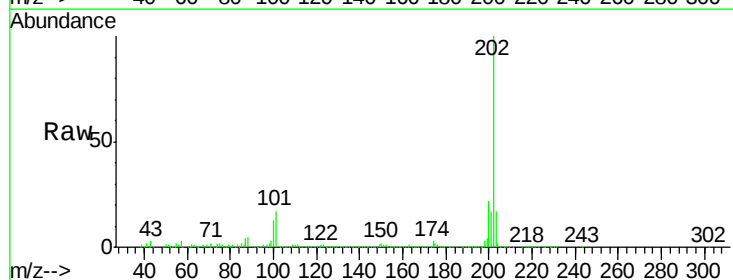
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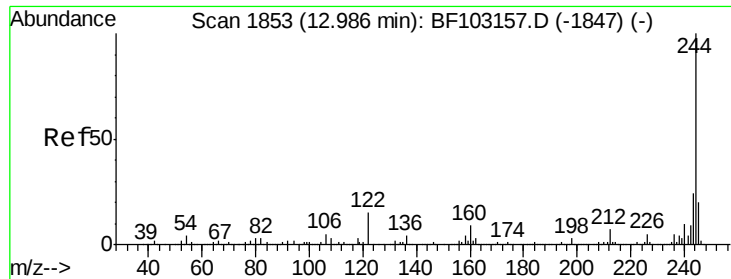
Sohil  
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#77  
Pyrene  
Concen: 15.536 ng  
RT: 12.85 min Scan# 1830  
Delta R.T. -0.01 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.1  | 17.4  | 26.2  |
| 203     | 17.2  | 14.3  | 21.5  |





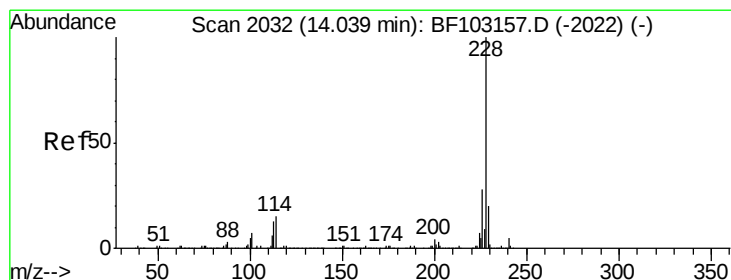
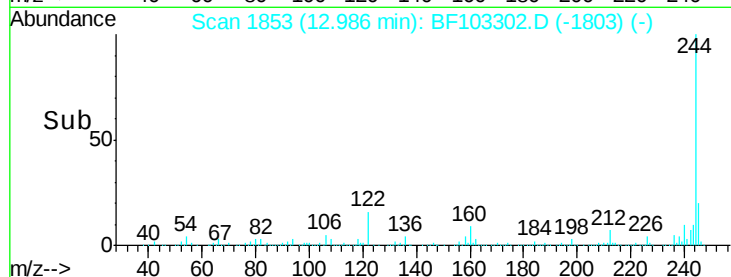
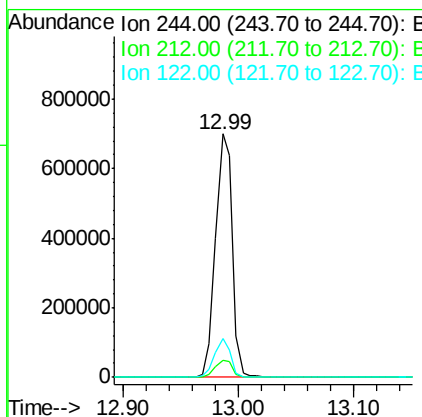
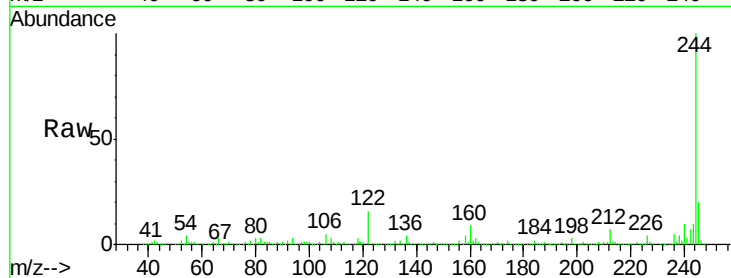
#78  
 Terphenyl-d14  
 Concen: 65.727 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.01 min  
 Lab File: BF103302.D  
 Acq: 28 Feb 2018 19:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-242

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 5.4   | 8.0   |
| 122     | 15.7  | 11.0  | 16.4  |

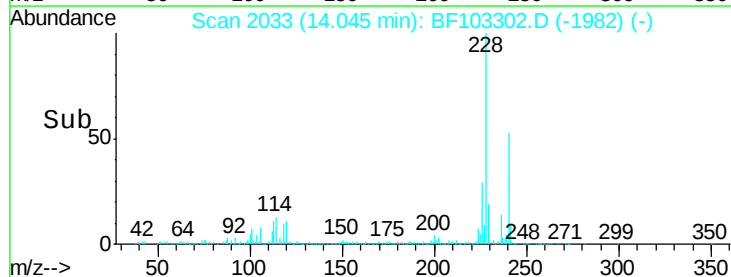
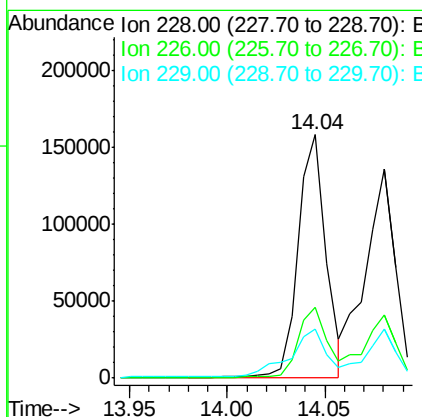
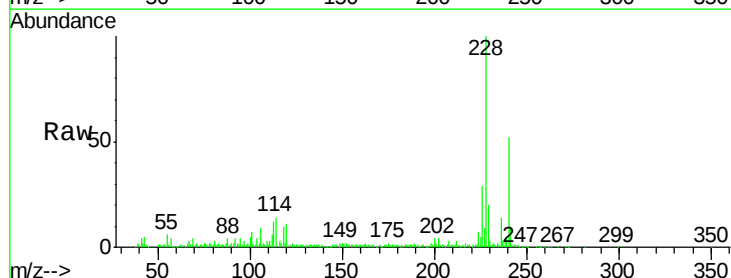
Manual Integrations  
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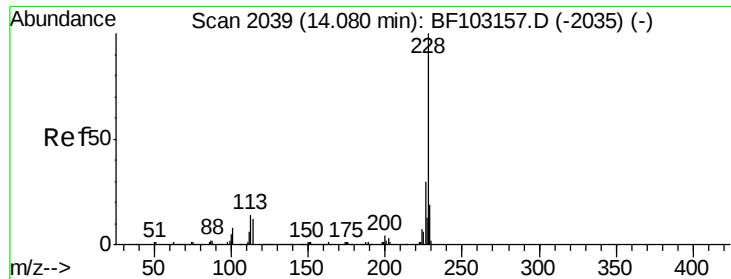
Sohil  
 3/1/2018 11:43:13 AM



#80  
 Benzo(a)anthracene  
 Concen: 9.256 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. 0.00 min  
 Lab File: BF103302.D  
 Acq: 28 Feb 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.1  | 22.6  | 33.8  |
| 229     | 20.3  | 15.8  | 23.6  |





#82

Chrysene

Concen: 9.035 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF103302.D

Acq: 28 Feb 2018 19:24

Instrument :

BNA\_F

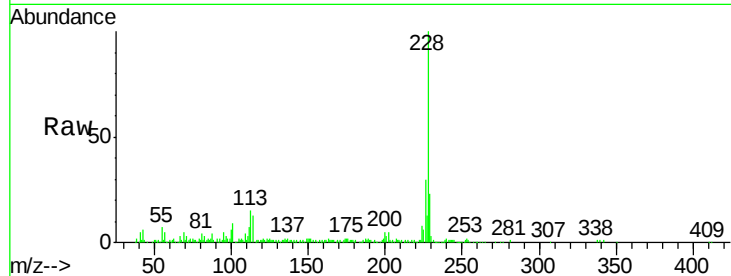
ClientSampleId :

RO-242

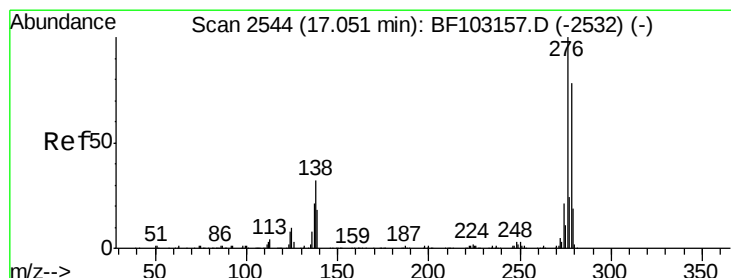
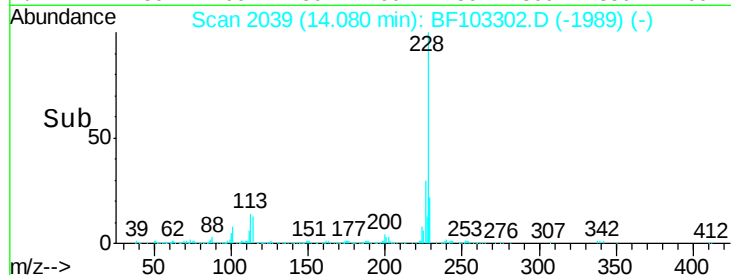
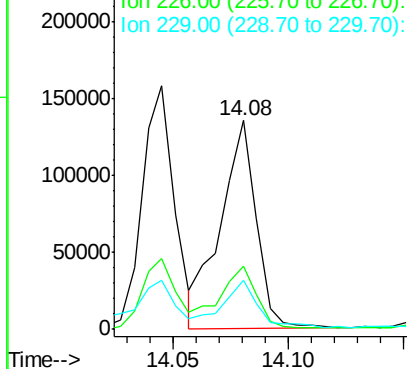
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 146664 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 30.1 | 25.0  | 37.6   |
| 229       | 23.3 | 16.2  | 24.4   |

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.697 ng

RT: 17.08 min Scan# 2549

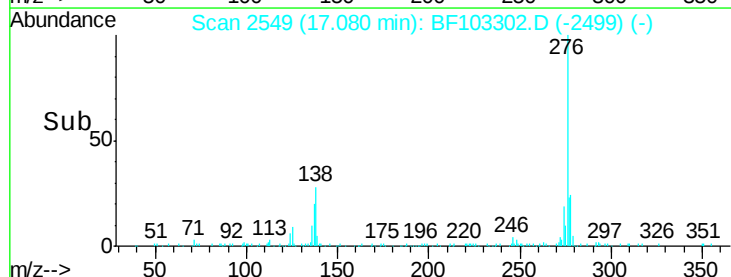
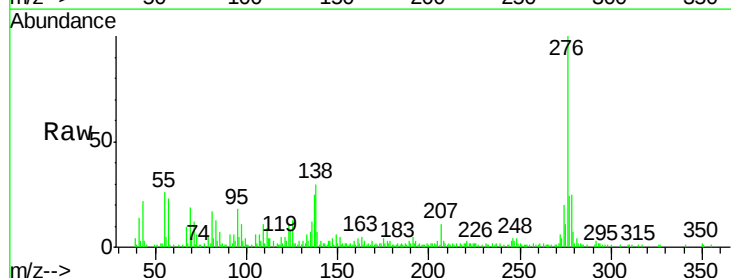
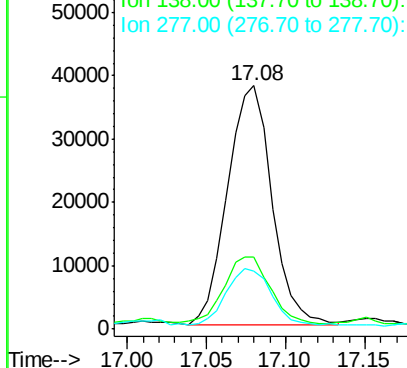
Delta R.T. -0.01 min

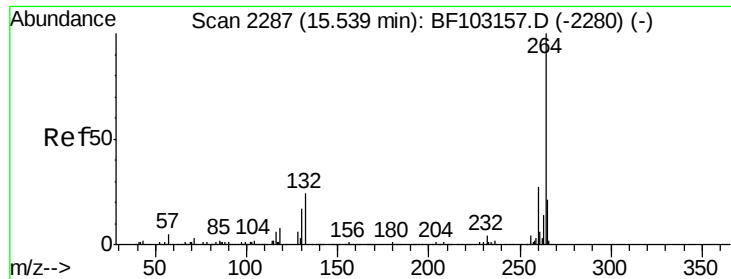
Lab File: BF103302.D

Acq: 28 Feb 2018 19:24

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 73208 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 138       | 30.0 | 25.0  | 37.6  |
| 277       | 24.1 | 20.1  | 30.1  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





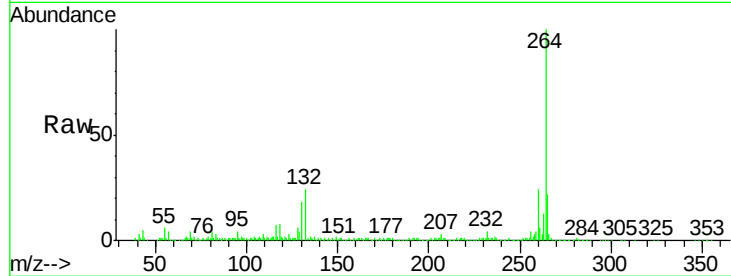
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.56 min Scan# 2290  
Delta R.T. 0.00 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

Instrument :  
BNA\_F  
ClientSampled :  
RO-242

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.2  | 28.8  |
| 265     | 21.9  | 17.5  | 26.3  |

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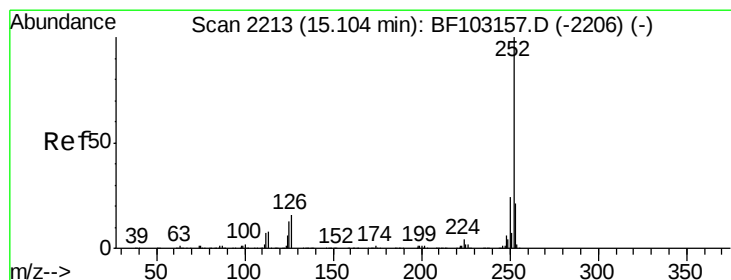
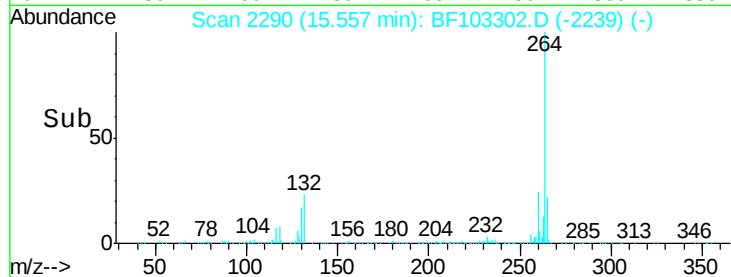
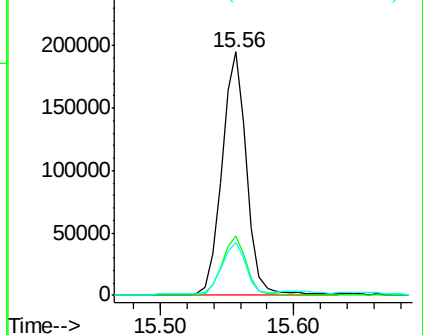


Abundance

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: 12.806 ng m  
RT: 15.12 min Scan# 2215  
Delta R.T. 0.00 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

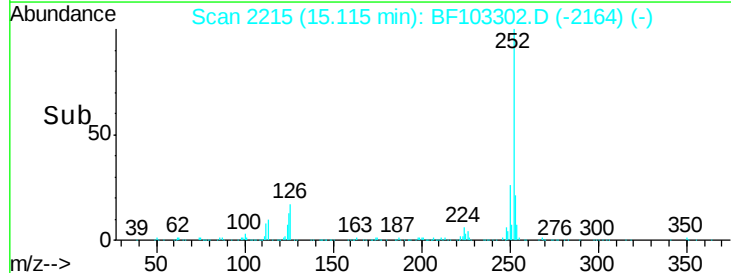
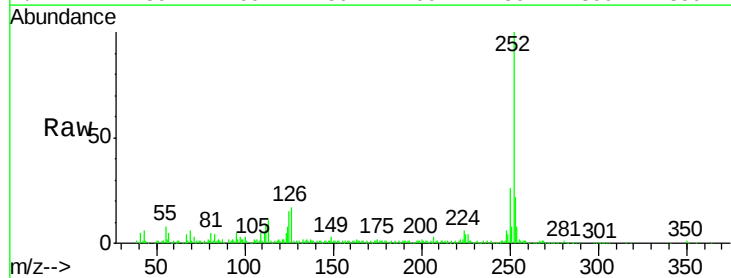
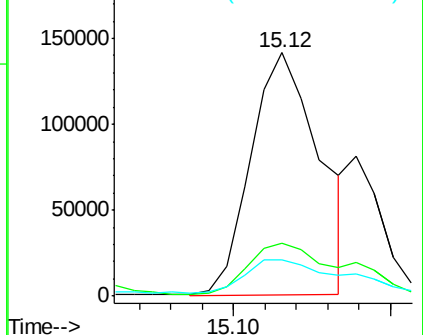
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 17.0  | 25.6  |
| 125     | 14.7  | 9.0   | 13.6  |

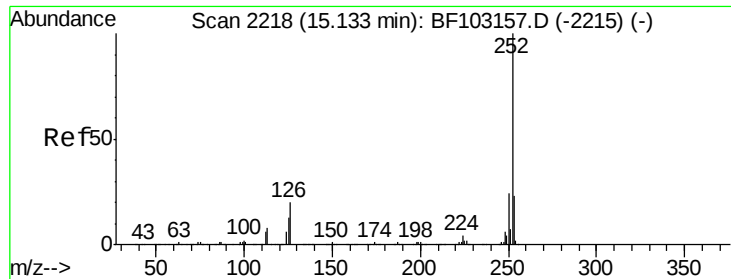
Abundance

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





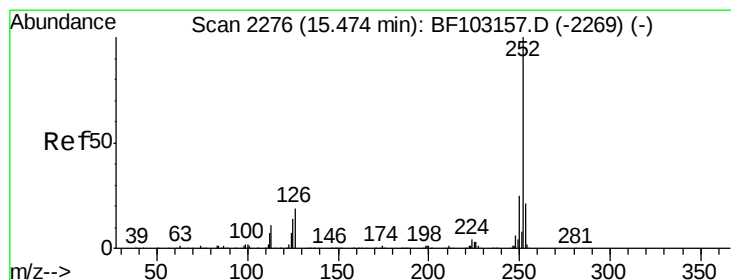
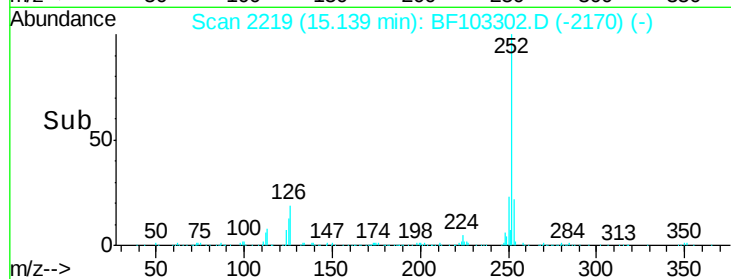
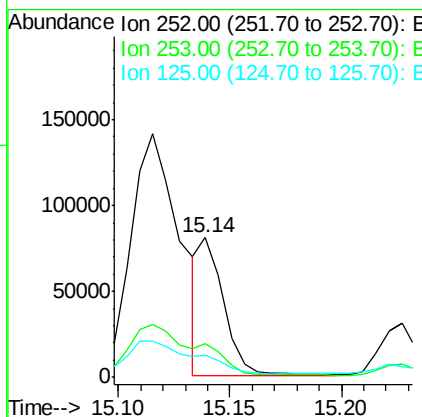
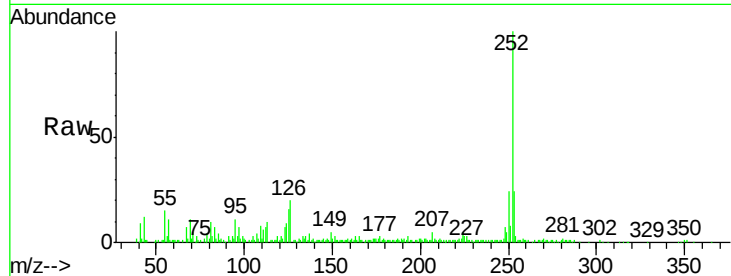
#88  
Benzo(k)fluoranthene  
Concen: 3.975 ng m  
RT: 15.14 min Scan# 2219  
Delta R.T. -0.01 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

Instrument :  
BNA\_F  
ClientSampled :  
RO-242

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.9  | 26.9  |
| 125     | 15.9  | 10.2  | 15.2  |

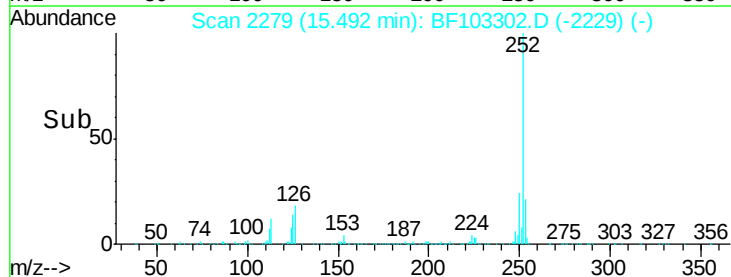
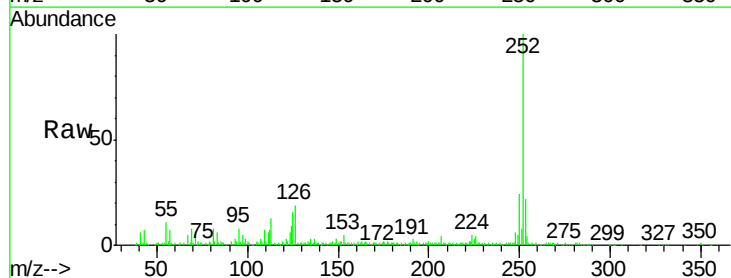
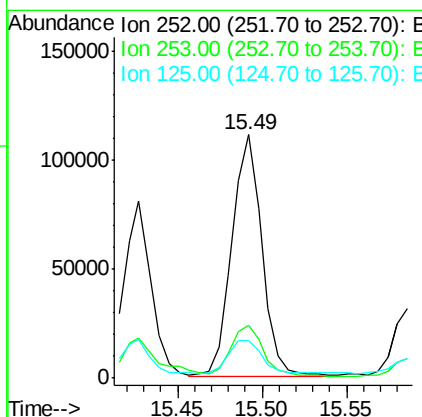
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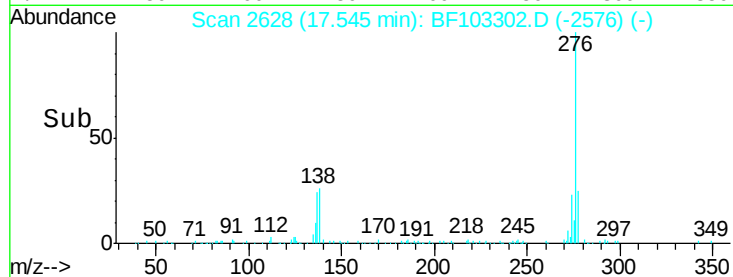
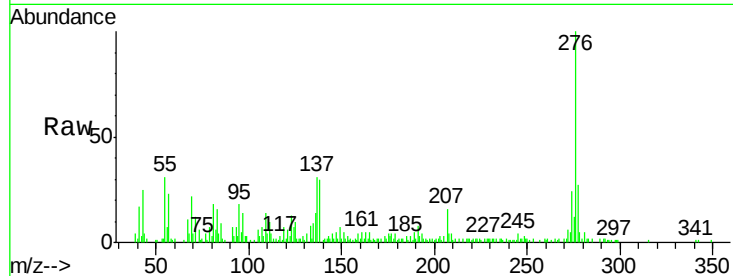
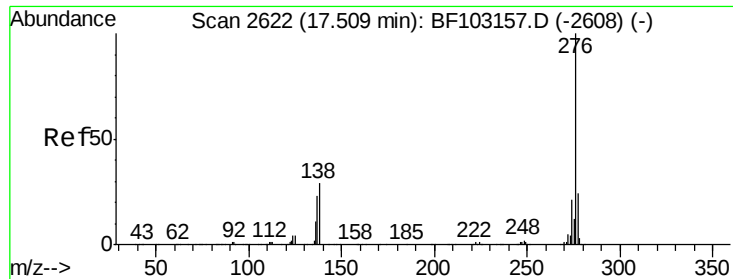
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#89  
Benzo(a)pyrene  
Concen: 9.267 ng  
RT: 15.49 min Scan# 2279  
Delta R.T. -0.01 min  
Lab File: BF103302.D  
Acq: 28 Feb 2018 19:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.1  | 25.7  |
| 125     | 15.6  | 9.8   | 14.6  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 5.879 ng  
 RT: 17.54 min Scan# 2628  
 Delta R.T. 0.01 min  
 Lab File: BF103302.D  
 Acq: 28 Feb 2018 19:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-242

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.7  | 17.9  | 26.9  |
| 138     | 30.4  | 21.8  | 32.8  |

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