

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042018\  
 Data File : BF104694.D  
 Acq On : 21 Apr 2018 1:06  
 Operator : JU/SJ  
 Sample : J2453-09  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-6 1.0-1.5

Manual Integrations  
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 4/23/2018 2:18:46 PM

Quant Time: Apr 21 05:04:28 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 20 14:49:55 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 119294   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 458480   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.84  | 164  | 189382   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.33 | 188  | 306920   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.97 | 240  | 236354   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.44 | 264  | 197519   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 647403   | 82.98  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.44  | 99   | 806745   | 84.16  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 491615   | 70.02  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 164667   | 83.82  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 846487   | 70.61  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 701924   | 67.71  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 49) Dimethylphthalate          | 9.56  | 163  | 72044    | 4.824  | ng    | 99       |
| 70) Phenanthrene               | 11.36 | 178  | 172046   | 10.066 | ng    | 98       |
| 71) Anthracene                 | 11.40 | 178  | 40828    | 2.350  | ng    | 97       |
| 74) Fluoranthene               | 12.54 | 202  | 259046   | 14.506 | ng    | 98       |
| 77) Pyrene                     | 12.77 | 202  | 241171   | 13.766 | ng    | 99       |
| 80) Benzo(a)anthracene         | 13.96 | 228  | 128400   | 9.093  | ng    | 98       |
| 82) Chrysene                   | 14.00 | 228  | 118135   | 8.145  | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 13.94 | 149  | 21724    | 2.046  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.89 | 276  | 49388    | 4.009  | ng    | # 92     |
| 87) Benzo(b)fluoranthene       | 15.02 | 252  | 132044m  | 10.585 | ng    |          |
| 88) Benzo(k)fluoranthene       | 15.04 | 252  | 43670m   | 3.708  | ng    |          |
| 89) Benzo(a)pyrene             | 15.37 | 252  | 90679    | 8.124  | ng    | # 95     |
| 91) Benzo(a,h,i)perylene       | 17.33 | 276  | 48142    | 5.420  | ng    | 95       |

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

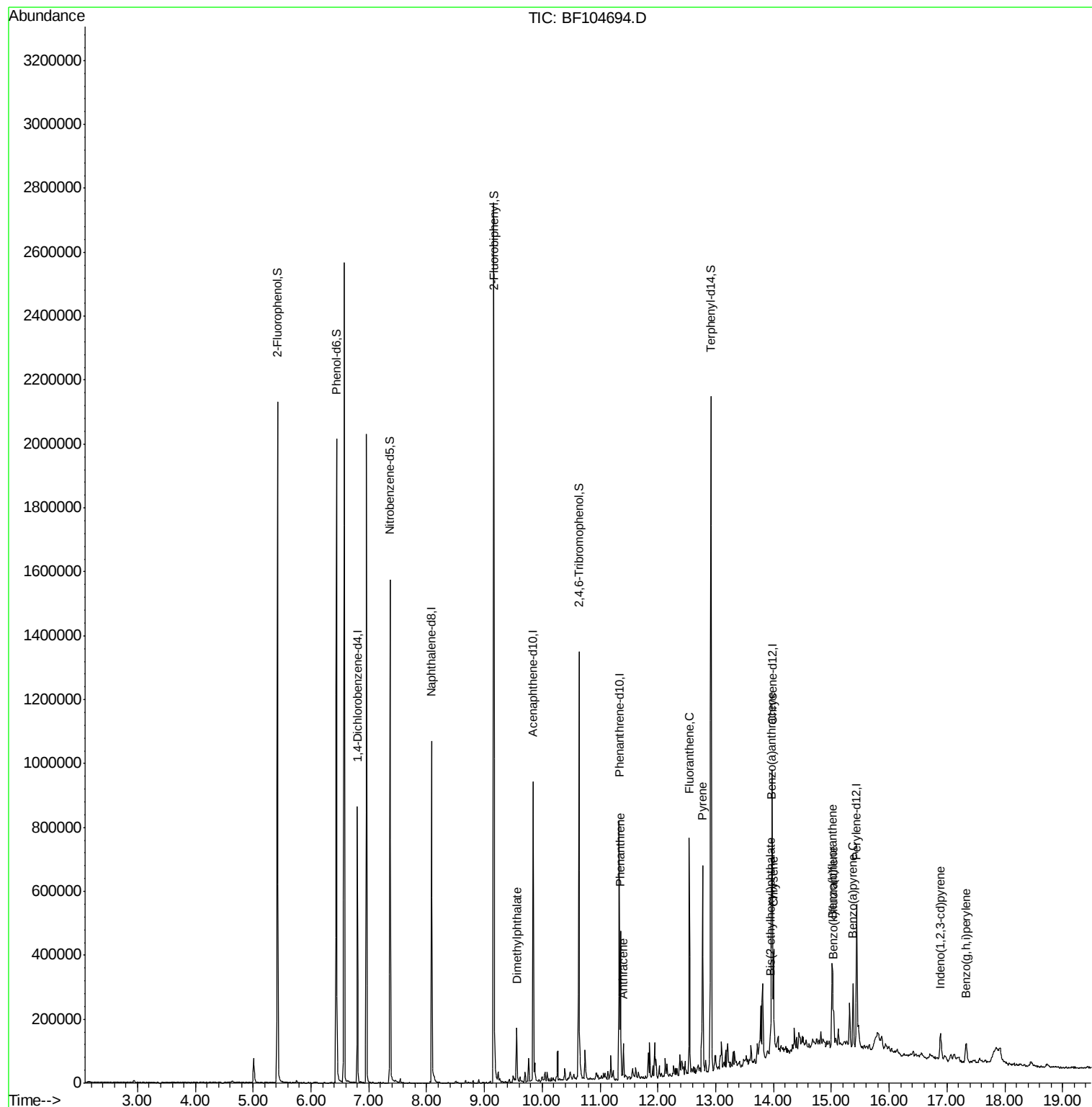
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042018\  
Data File : BF104694.D  
Acq On : 21 Apr 2018 1:06  
Operator : JU/SJ  
Sample : J2453-09  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

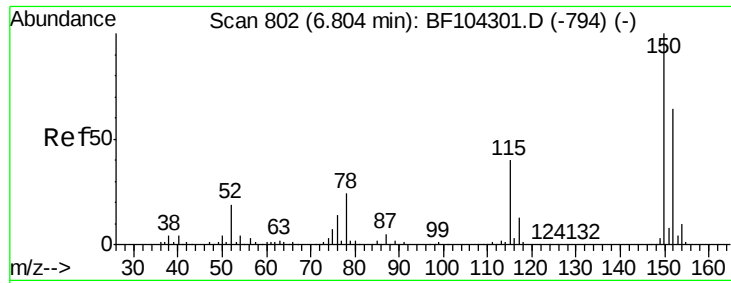
Instrument :  
BNA\_F  
ClientSampleId :  
T-6\_1.0-1.5

Manual Integrations  
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Quant Time: Apr 21 05:04:28 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 20 14:49:55 2018  
Response via : Initial Calibration





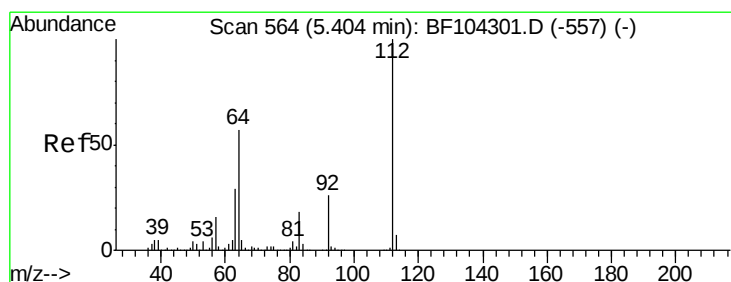
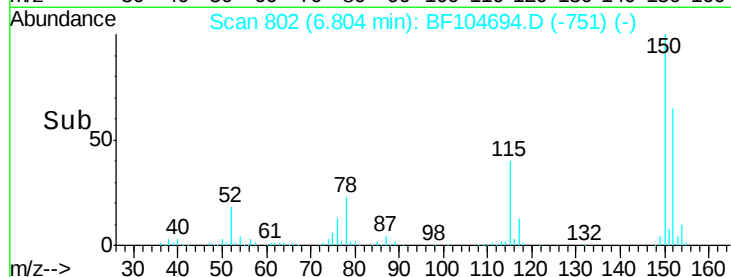
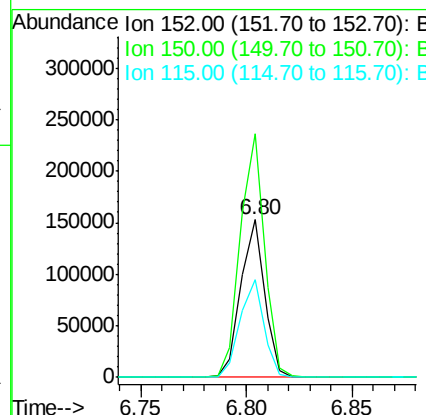
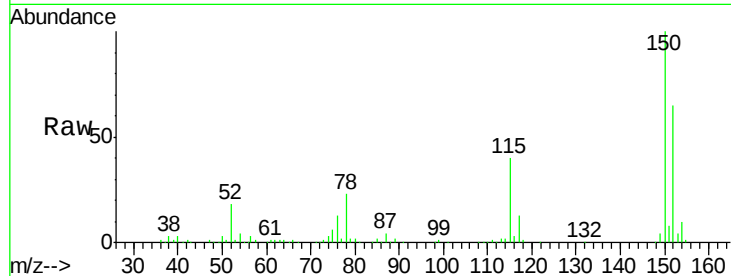
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.80 min Scan# 802  
 Delta R.T. -0.00 min  
 Lab File: BF104694.D  
 Acq: 21 Apr 2018 1:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-6\_1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.5 | 124.6 | 186.8 |
| 115     | 62.1  | 50.1  | 75.1  |

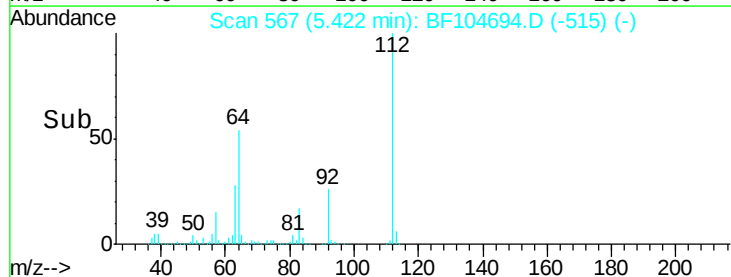
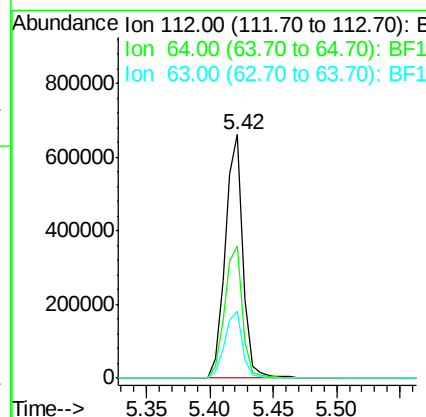
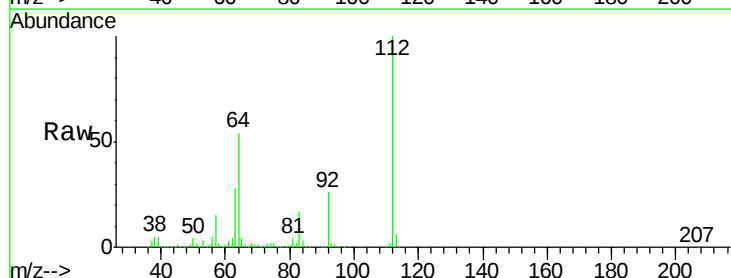
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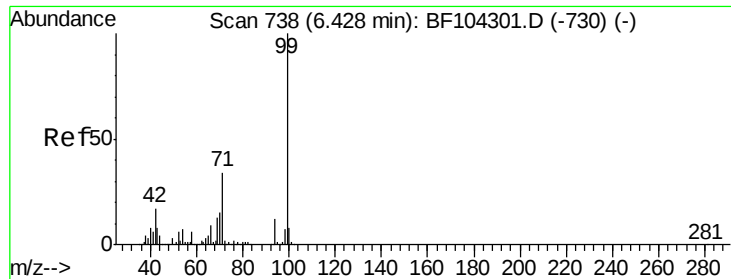
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#5  
 2-Fluorophenol  
 Concen: 82.981 ng  
 RT: 5.42 min Scan# 567  
 Delta R.T. 0.01 min  
 Lab File: BF104694.D  
 Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.4  | 47.9  | 71.9  |
| 63      | 27.5  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 84.160 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104694.D

Acq: 21 Apr 2018 1:06

Instrument :

BNA\_F

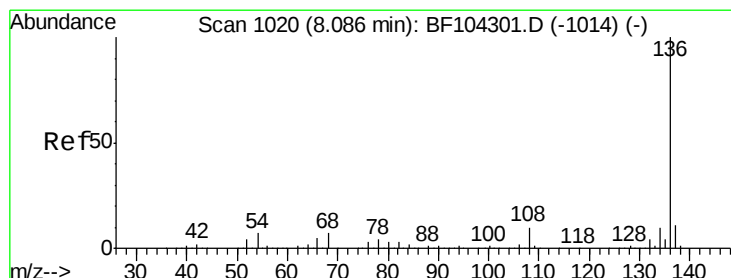
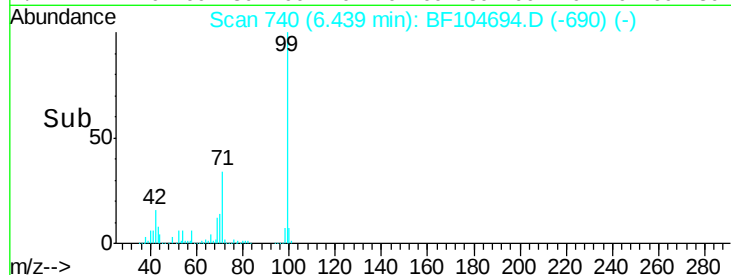
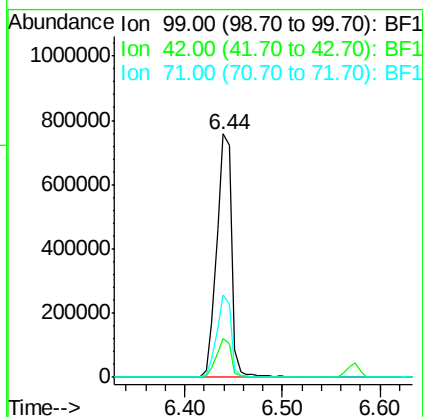
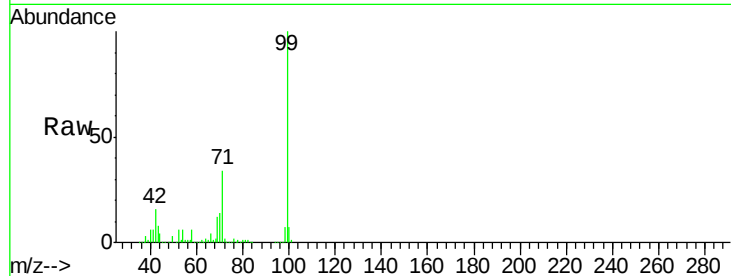
ClientSampled :

T-6 1.0-1.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 806745 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 16.0  | 14.5  | 21.7   |
| 71        | 33.6  | 25.4  | 38.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

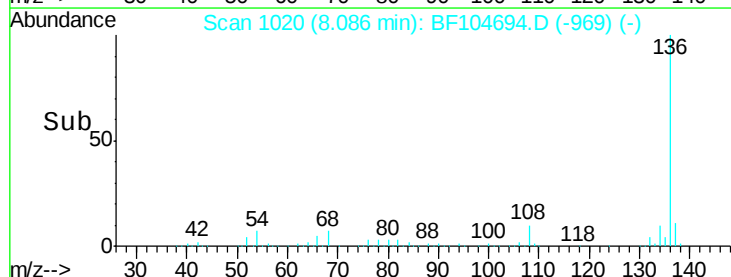
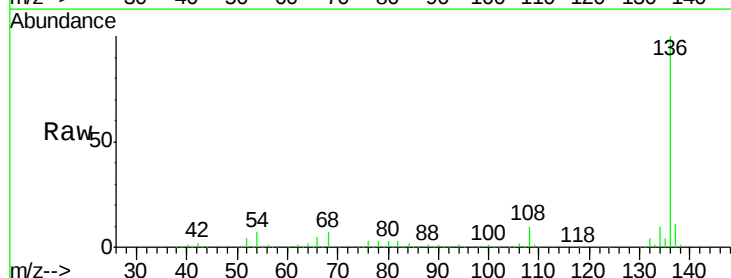
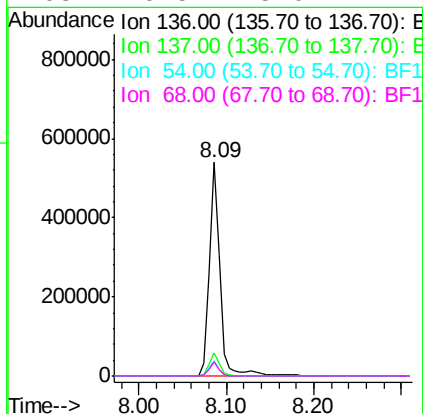
RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF104694.D

Acq: 21 Apr 2018 1:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 458480 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.9   | 13.3   |
| 54        | 7.1   | 6.6   | 9.8    |
| 68        | 6.5   | 5.0   | 7.4    |





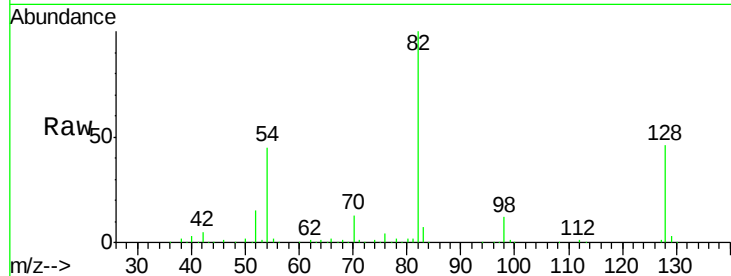
#23  
Nitrobenzene-d5  
Concen: 70.017 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

Instrument :  
BNA\_F  
ClientSampled :  
T-6 1.0-1.5

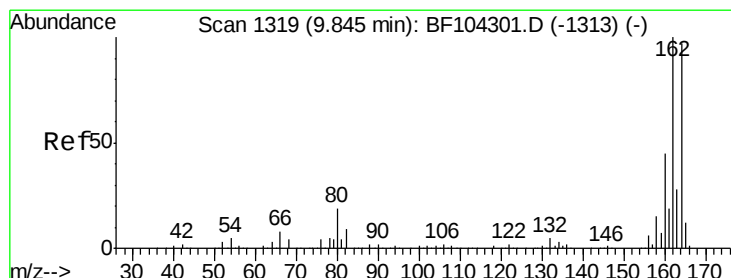
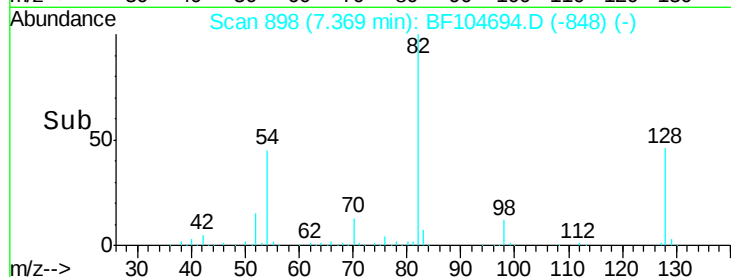
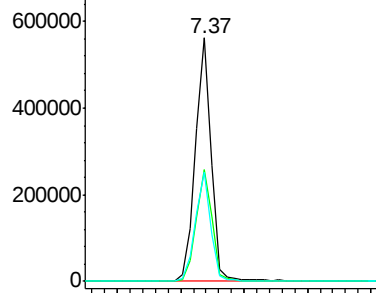
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 491615 |       |       |
| 128     | 46.1  | 36.1   | 54.1  |       |
| 54      | 44.7  | 41.4   | 62.2  |       |

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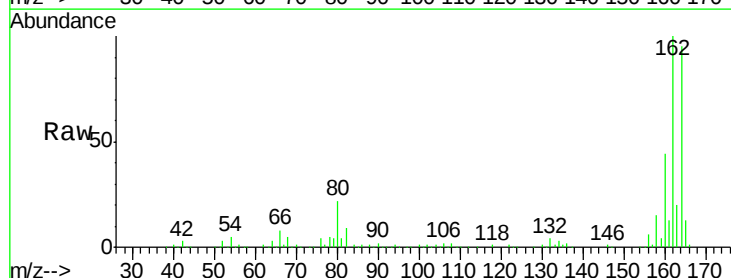


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

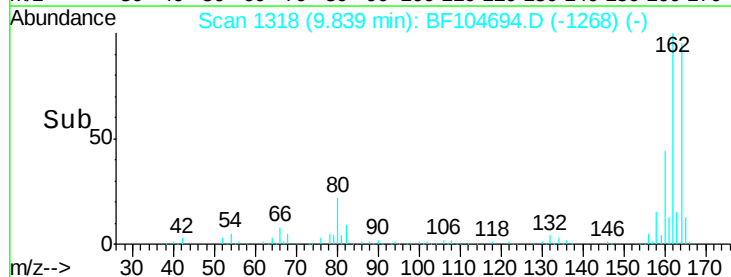
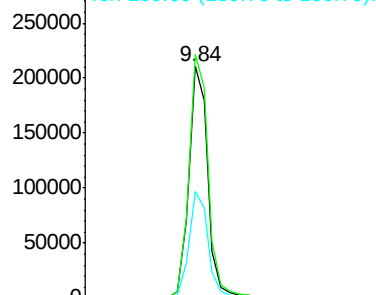


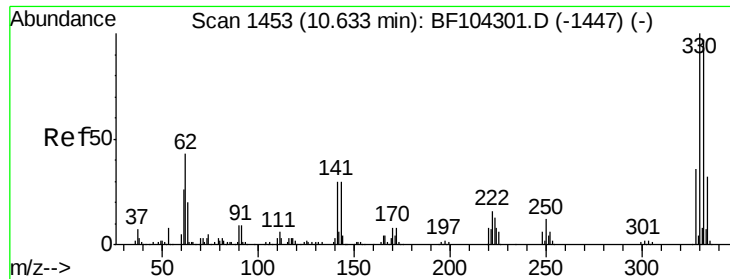
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 189382 |       |       |
| 162     | 105.0 | 86.1   | 129.1 |       |
| 160     | 45.8  | 38.3   | 57.5  |       |



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





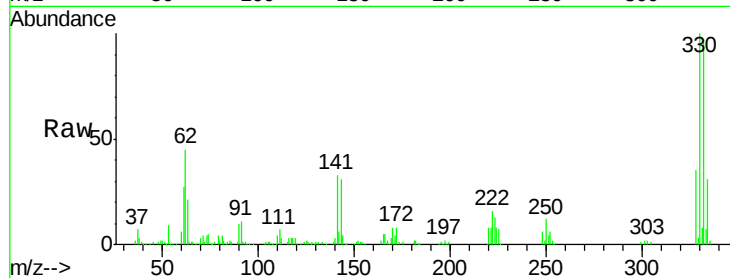
#41  
 2,4,6-Tribromophenol  
 Concen: 83.821 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.01 min  
 Lab File: BF104694.D  
 Acq: 21 Apr 2018 1:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-6\_1.0-1.5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 164667 |       |       |
| 332     | 96.1  | 77.0   | 115.6 |       |
| 141     | 34.1  | 29.9   | 44.9  |       |

Manual Integrations  
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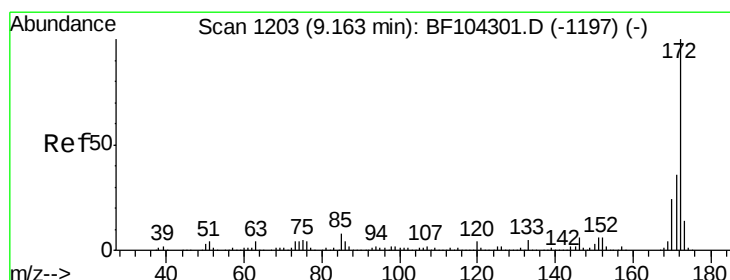
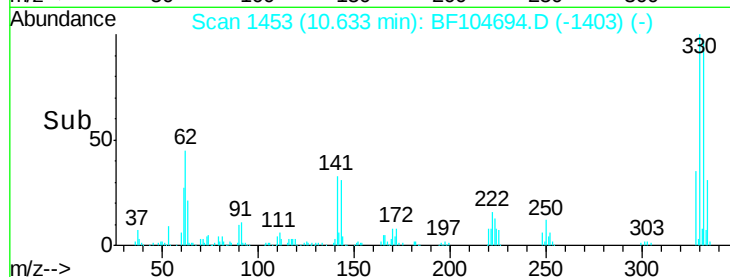
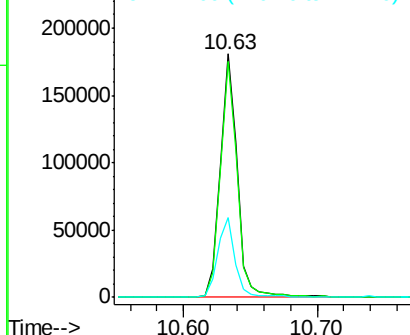


Abundance

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: 70.611 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.00 min  
 Lab File: BF104694.D  
 Acq: 21 Apr 2018 1:06

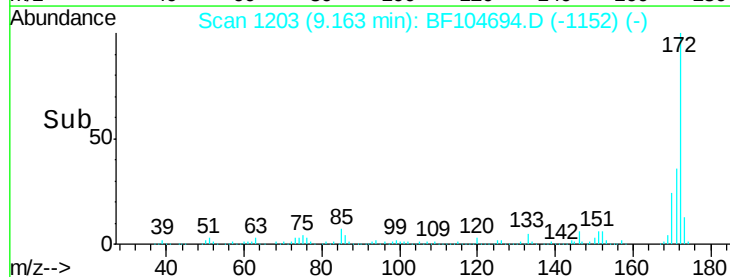
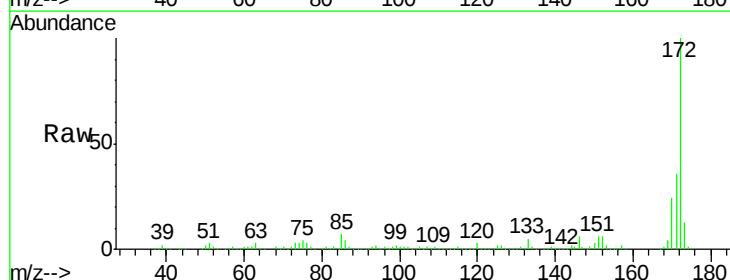
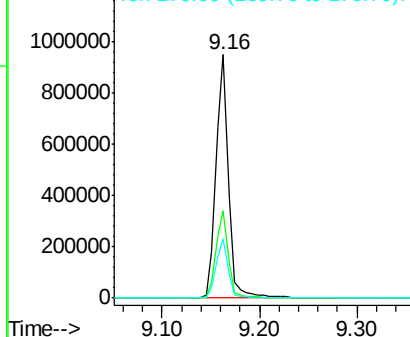
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 846487 |       |       |
| 171     | 36.0  | 29.7   | 44.5  |       |
| 170     | 24.2  | 19.6   | 29.4  |       |

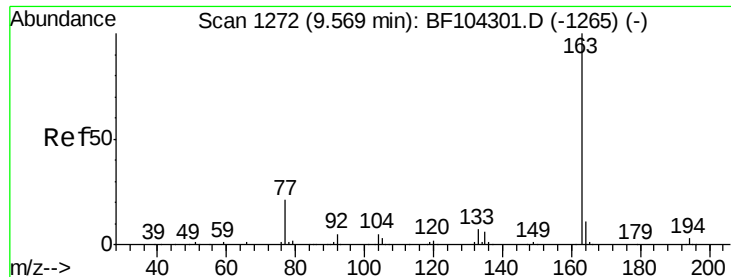
Abundance

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





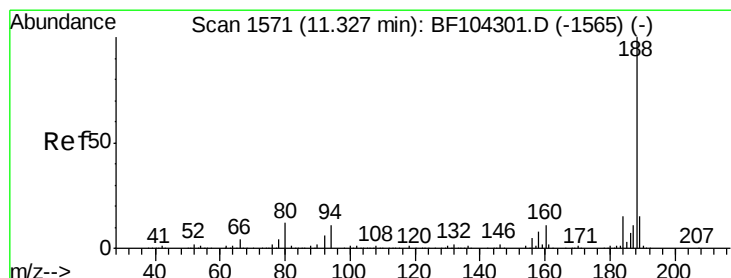
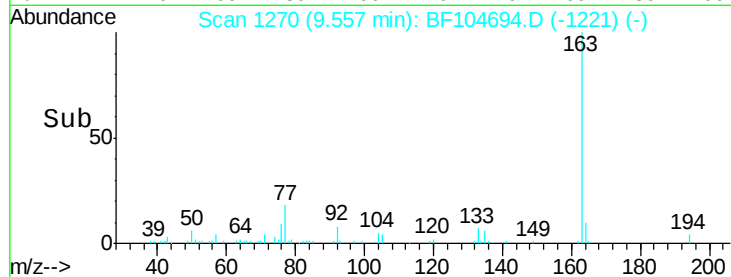
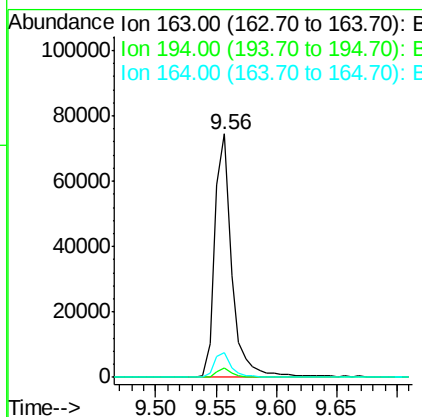
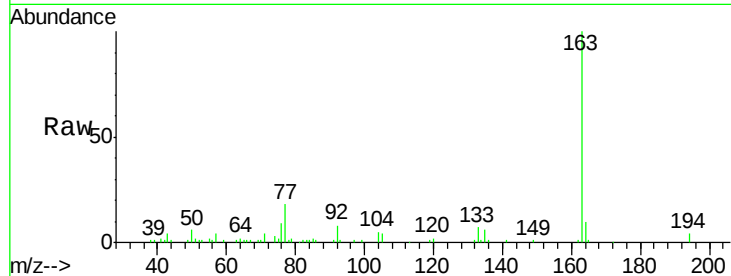
#49  
Dimethylphthalate  
Concen: 4.824 ng  
RT: 9.56 min Scan# 1270  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

Instrument :  
BNA\_F  
ClientSampled :  
T-6 1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 2.7   | 4.1   |
| 164     | 10.1  | 8.2   | 12.2  |

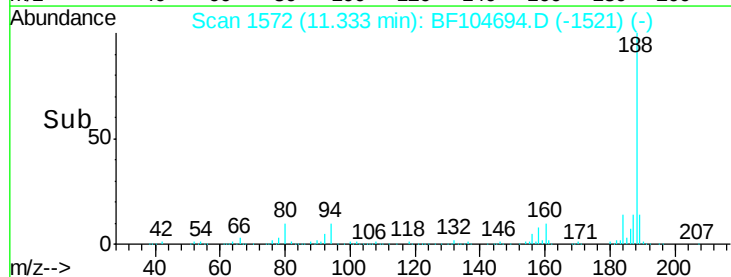
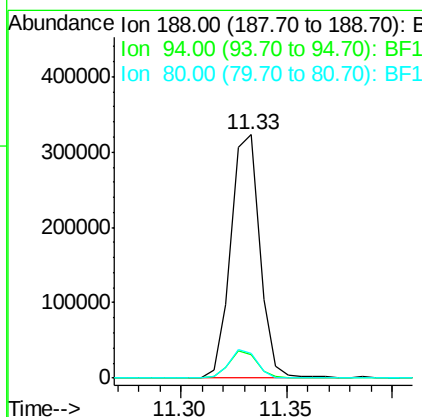
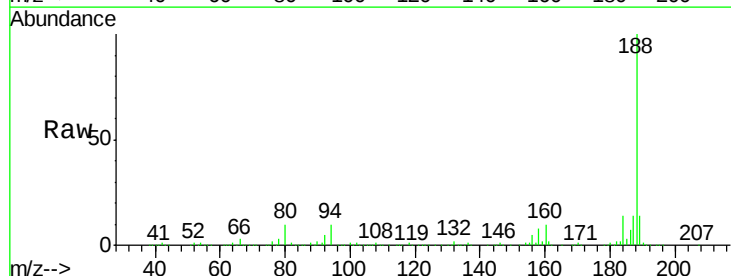
Manual Integrations  
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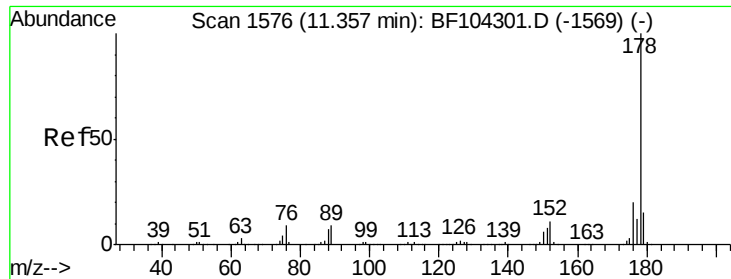
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#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.00 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 8.5   | 12.7  |
| 80      | 10.0  | 9.2   | 13.8  |





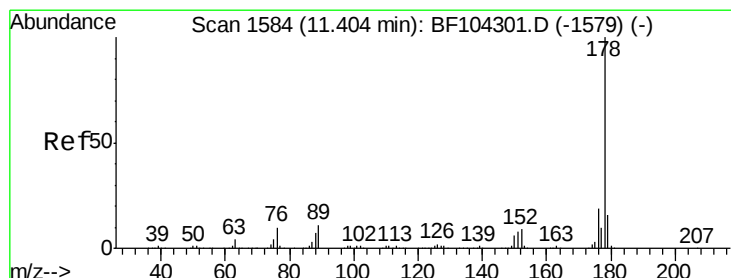
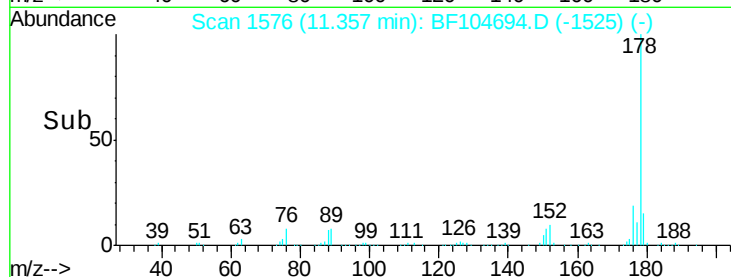
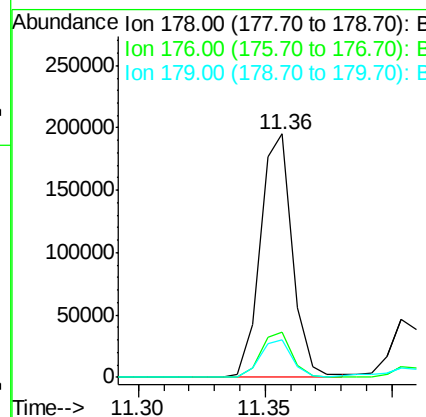
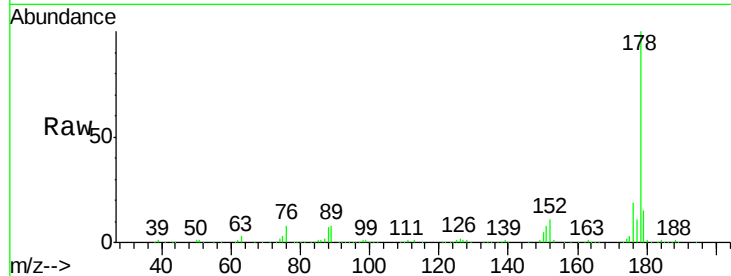
#70  
 Phenanthrene  
 Concen: 10.066 ng  
 RT: 11.36 min Scan# 1576  
 Delta R.T. -0.00 min  
 Lab File: BF104694.D  
 Acq: 21 Apr 2018 1:06

Instrument :  
 BNA\_F  
 ClientSampled :  
 T-6 1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 15.8  | 23.8  |
| 179     | 15.3  | 13.0  | 19.6  |

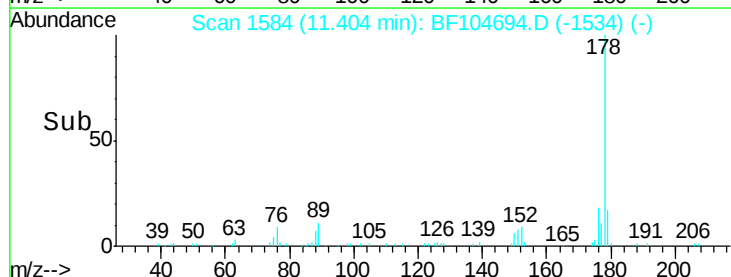
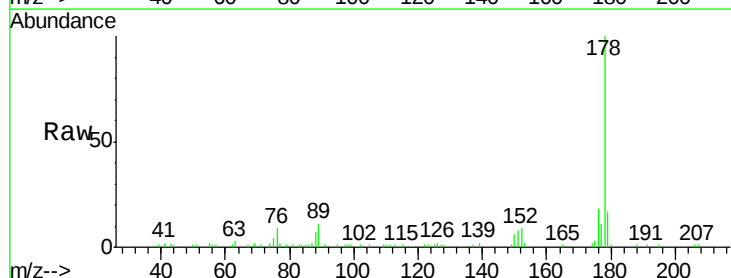
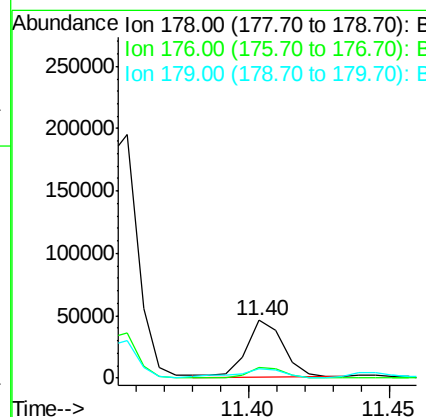
Manual Integrations  
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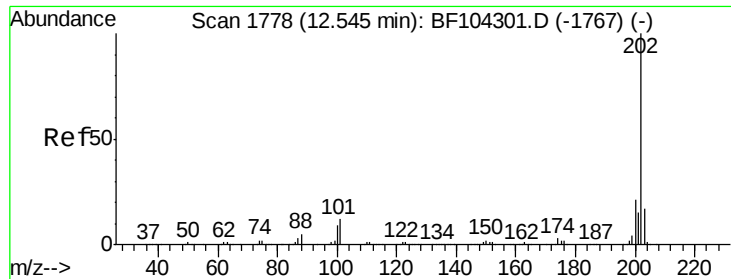
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#71  
 Anthracene  
 Concen: 2.350 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF104694.D  
 Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.0  | 15.4  | 23.2  |
| 179     | 17.3  | 12.6  | 19.0  |





#74

Fluoranthene

Concen: 14.506 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.00 min

Lab File: BF104694.D

Acq: 21 Apr 2018 1:06

Instrument :

BNA\_F

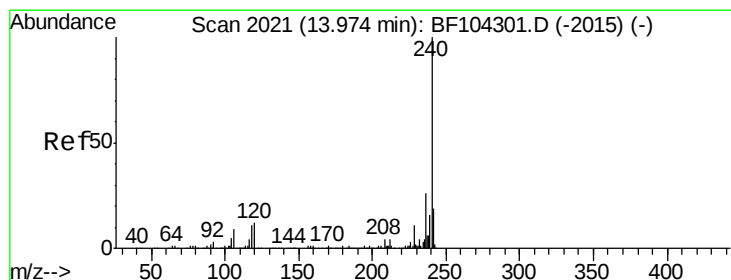
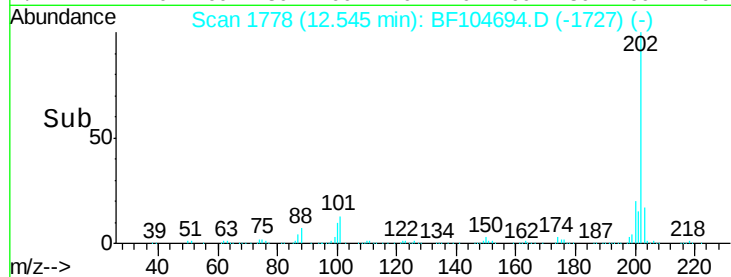
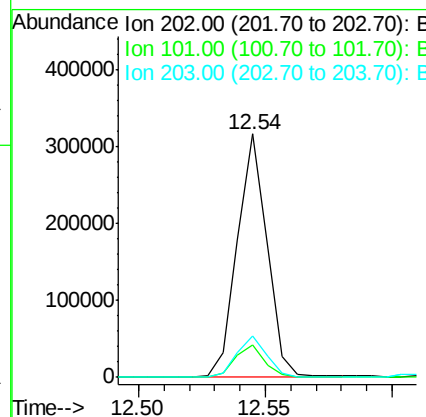
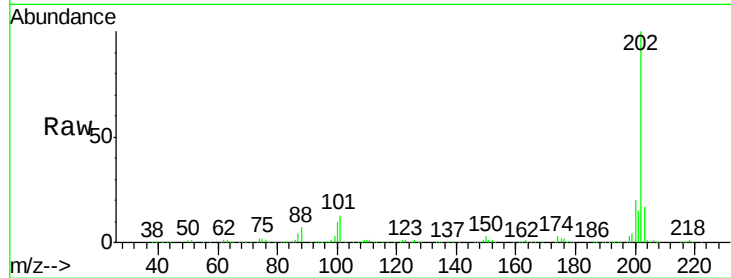
ClientSampled :

T-6 1.0-1.5

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.4  | 0.0        | 34.1  |
| 203     | 17.0  | 0.0        | 38.1  |

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#75

Chrysene-d12

Concen: 20.000 ng

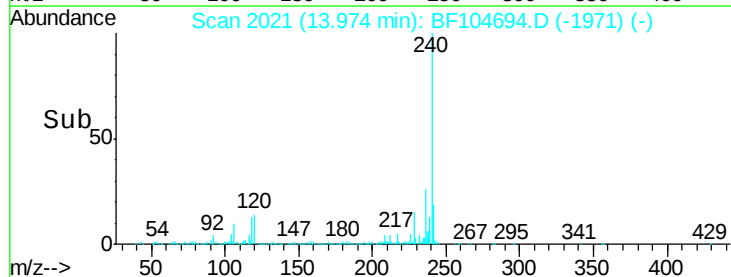
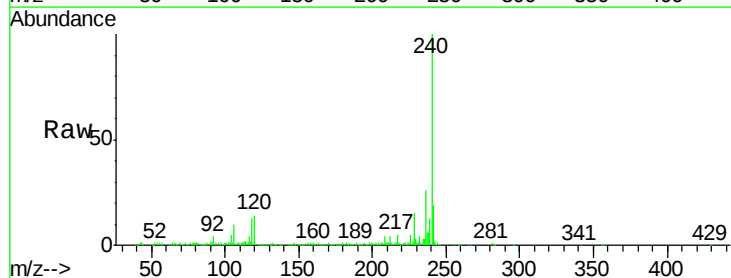
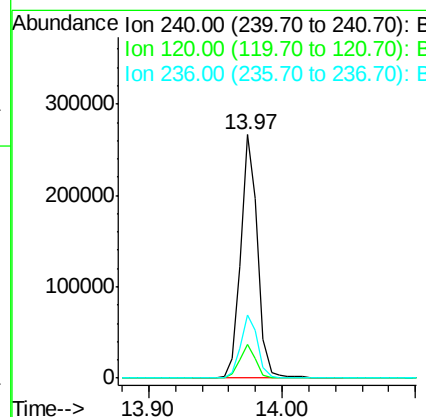
RT: 13.97 min Scan# 2021

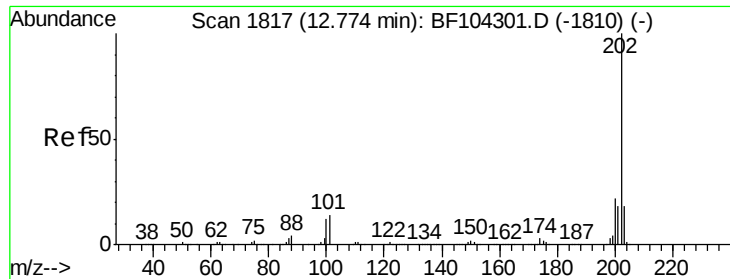
Delta R.T. -0.01 min

Lab File: BF104694.D

Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 13.7  | 9.5        | 14.3  |
| 236     | 25.8  | 20.7       | 31.1  |





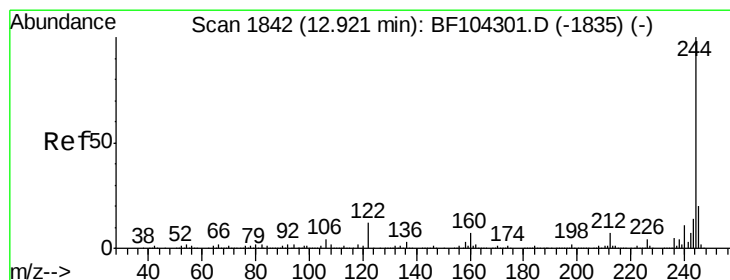
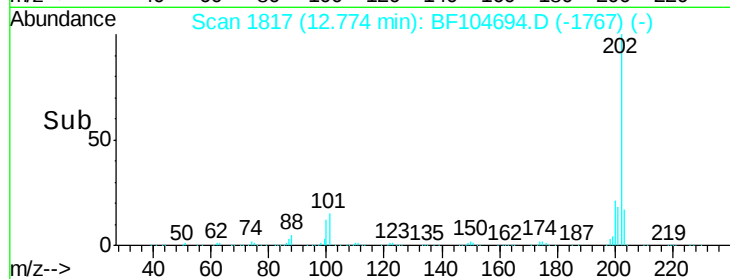
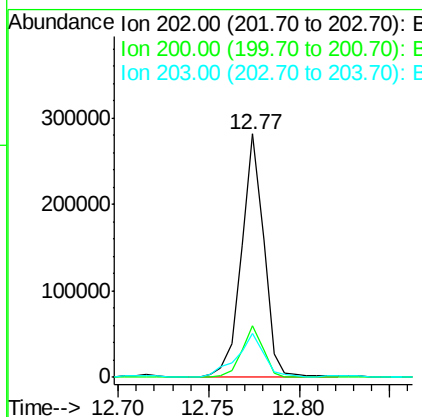
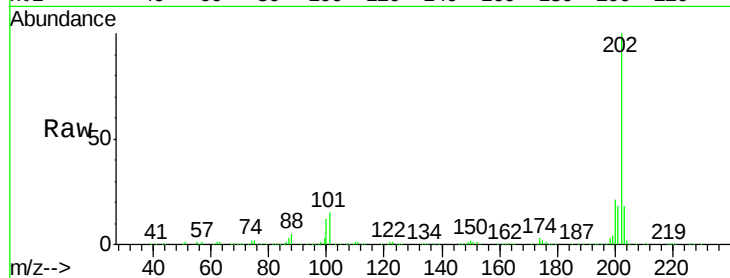
#77  
Pvrene  
Concen: 13.766 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

Instrument :  
BNA\_F  
ClientSampleId :  
T-6\_1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 17.4  | 26.2  |
| 203     | 17.9  | 14.3  | 21.5  |

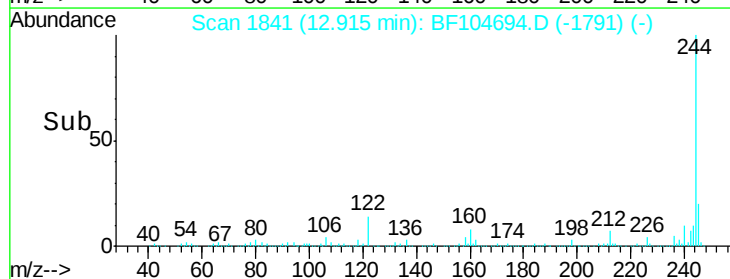
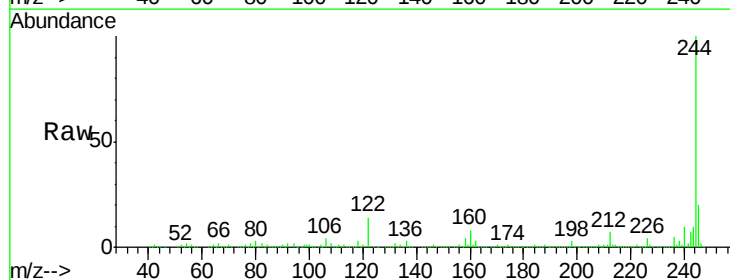
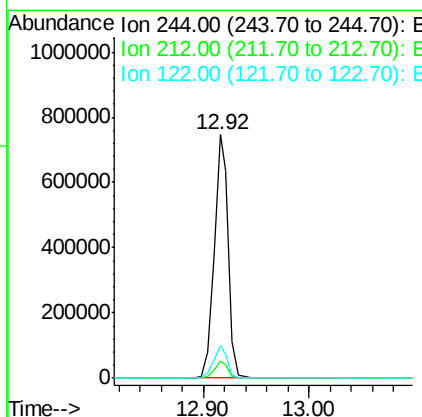
Manual Integrations  
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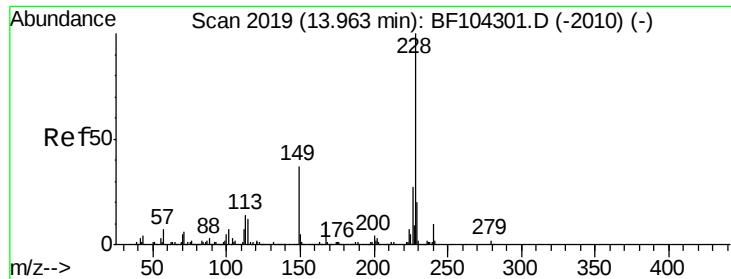
Sohil  
4/23/2018 2:18:46 PM



#78  
Terphenyl-d14  
Concen: 67.706 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.8   | 5.4   | 8.0   |
| 122     | 13.5  | 11.0  | 16.4  |





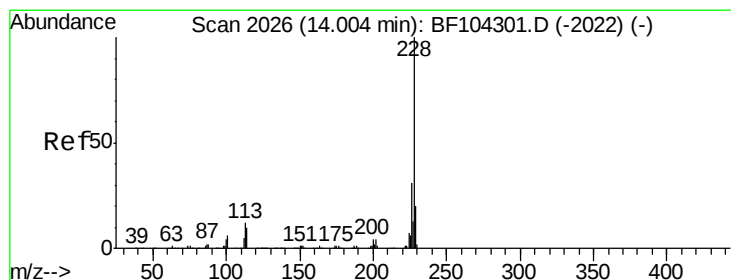
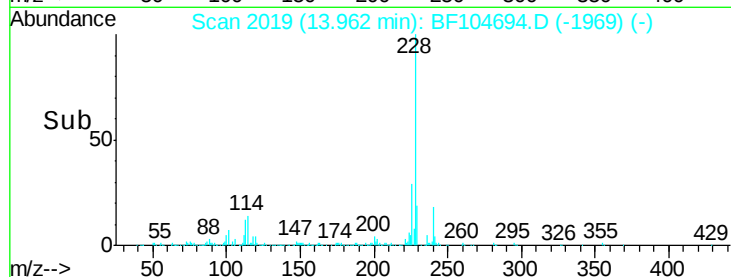
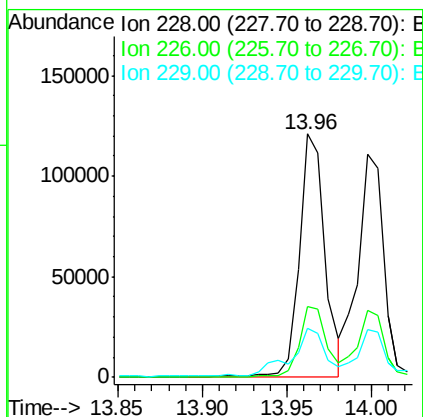
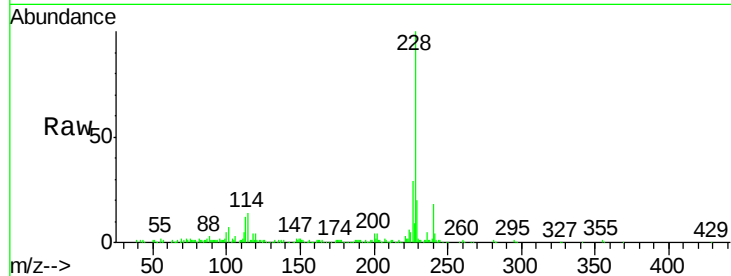
#80  
Benzo(a)anthracene  
Concen: 9.093 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

Instrument :  
BNA\_F  
ClientSampleId :  
T-6\_1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 22.6  | 33.8  |
| 229     | 20.2  | 15.8  | 23.6  |

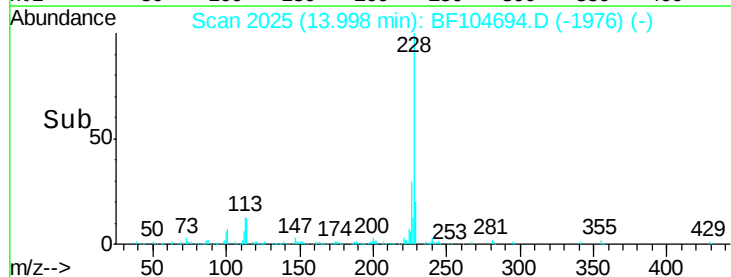
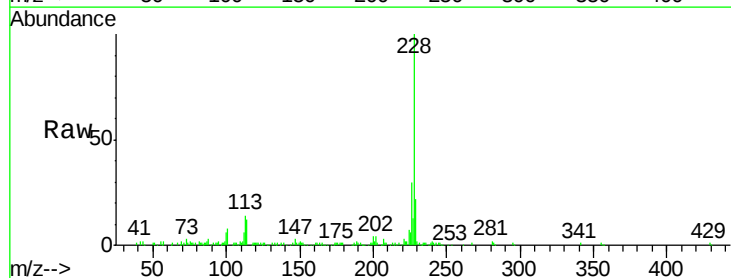
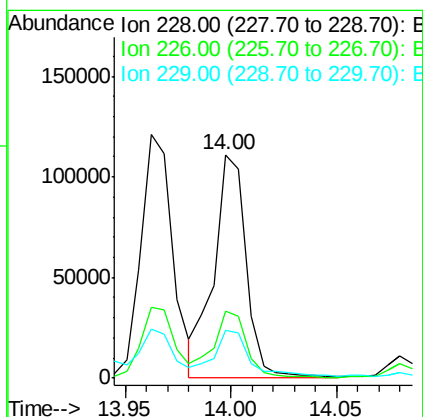
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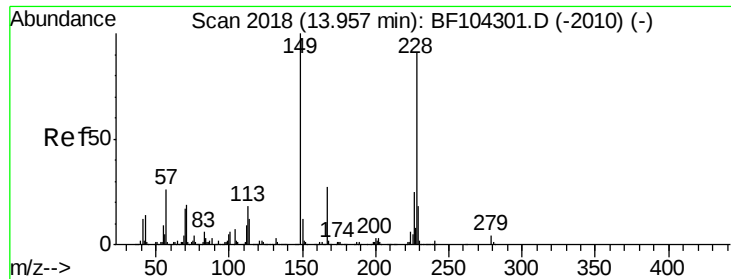
Sohil  
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#82  
Chrysene  
Concen: 8.145 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 25.0  | 37.6  |
| 229     | 21.6  | 16.2  | 24.4  |





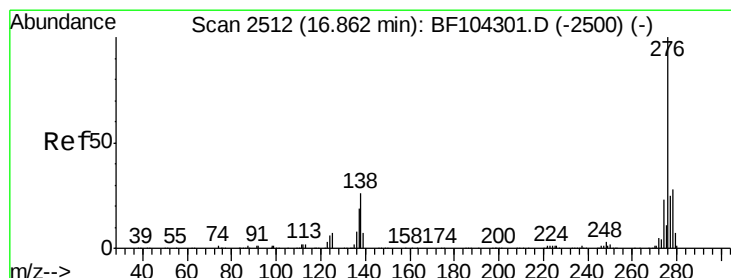
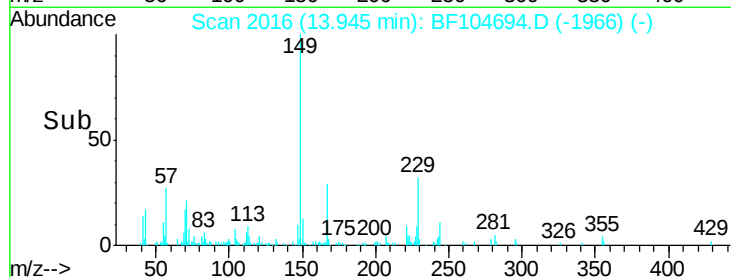
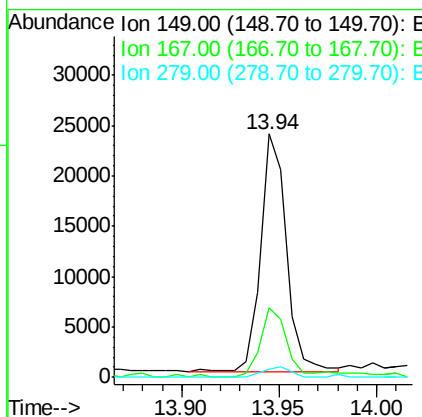
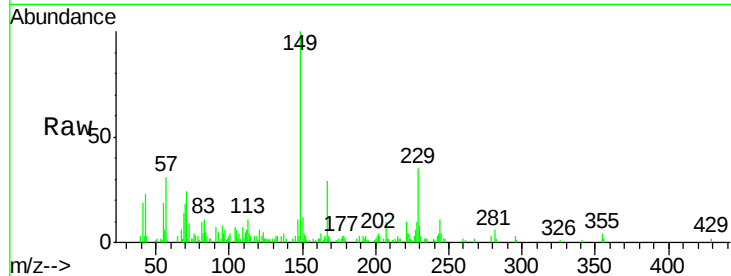
#83  
Bis(2-ethylhexyl)phthalate  
Concen: 2.046 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

Instrument :  
BNA\_F  
ClientSampleId :  
T-6\_1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.5  | 21.3  | 31.9  |
| 279     | 3.4   | 3.0   | 4.4   |

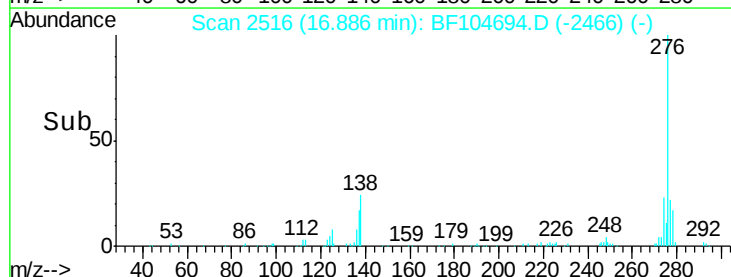
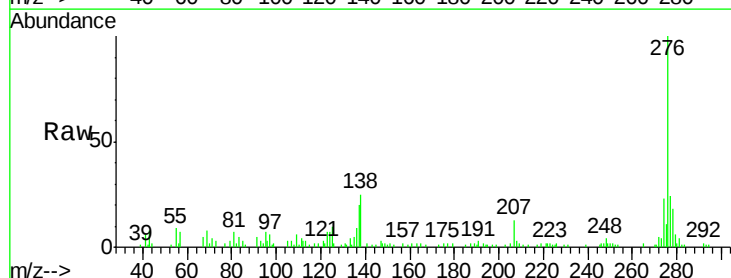
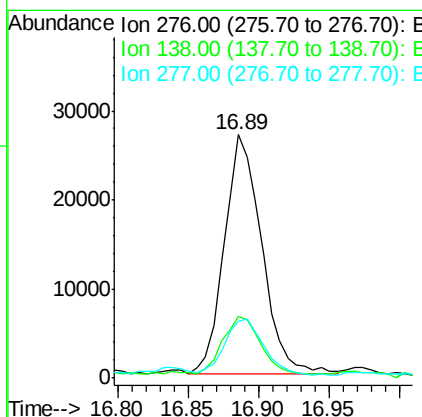
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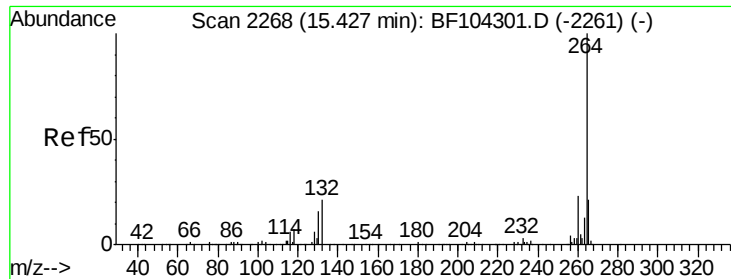
Sohil  
4/23/2018 2:18:46 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.009 ng  
RT: 16.89 min Scan# 2516  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.0  | 25.0  | 37.6# |
| 277     | 24.3  | 20.1  | 30.1  |





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. 0.01 min

Lab File: BF104694.D

Acq: 21 Apr 2018 1:06

Instrument :

BNA\_F

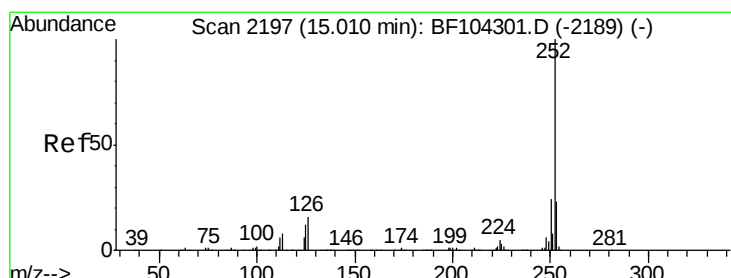
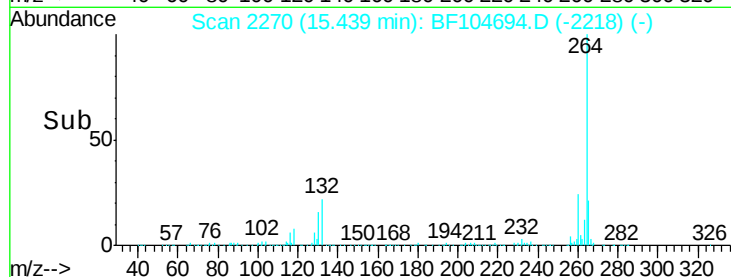
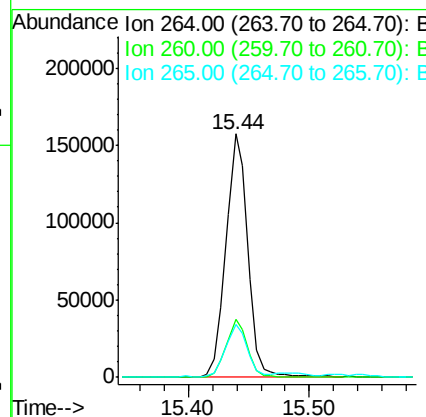
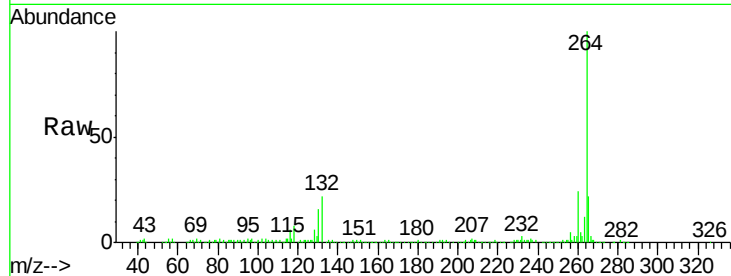
ClientSampled :

T-6 1.0-1.5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 197519 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.6  | 19.2  | 28.8   |
| 265       | 21.6  | 17.5  | 26.3   |

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#87

Benzo(b)fluoranthene

Concen: 10.585 ng m

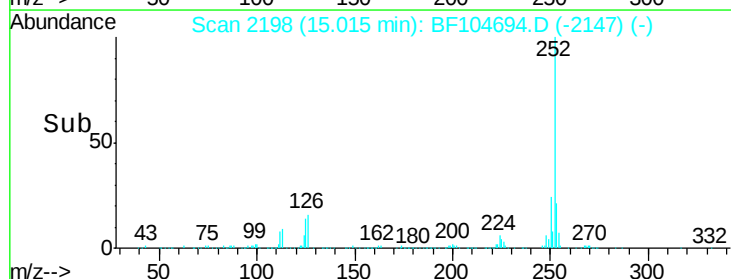
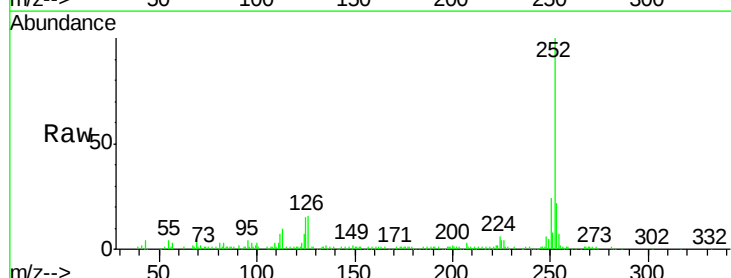
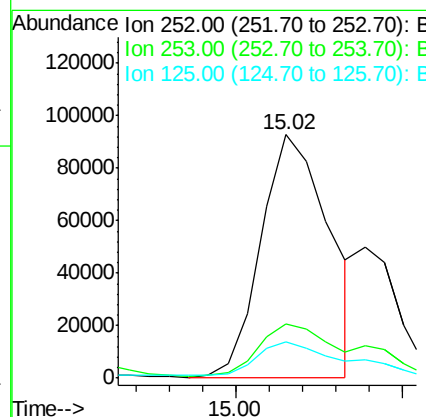
RT: 15.02 min Scan# 2198

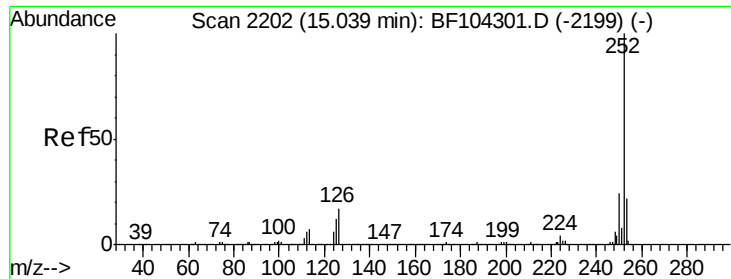
Delta R.T. -0.00 min

Lab File: BF104694.D

Acq: 21 Apr 2018 1:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 132044 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 17.0  | 25.6   |
| 125       | 14.7  | 9.0   | 13.6#  |





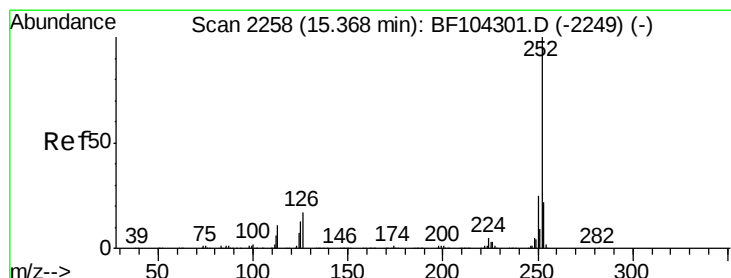
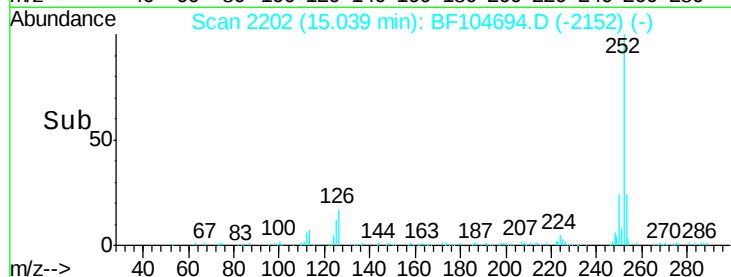
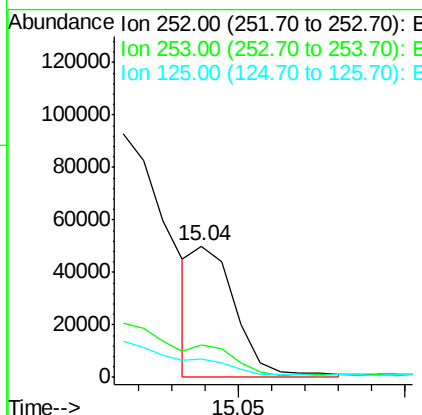
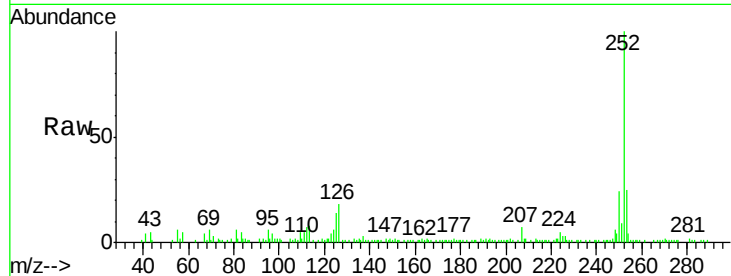
#88  
Benzo(k)fluoranthene  
Concen: 3.708 ng m  
RT: 15.04 min Scan# 2202  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

Instrument :  
BNA\_F  
ClientSampleId :  
T-6\_1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.9  | 26.9  |
| 125     | 13.9  | 10.2  | 15.2  |

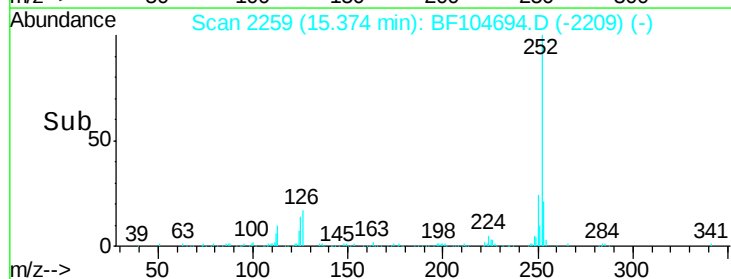
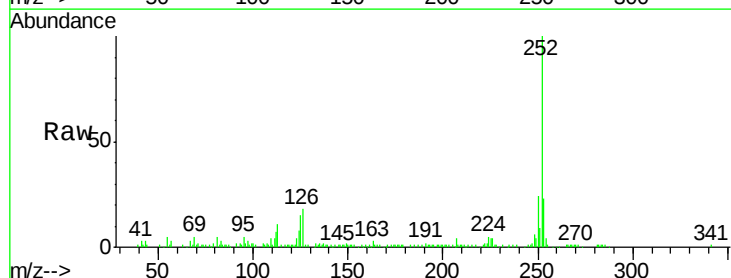
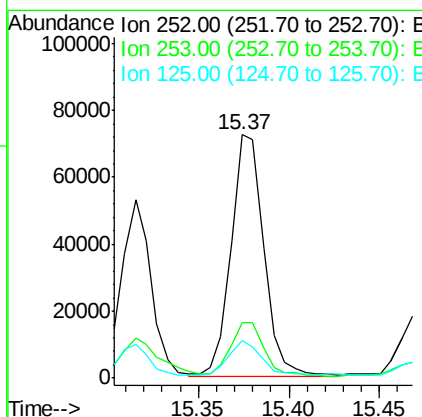
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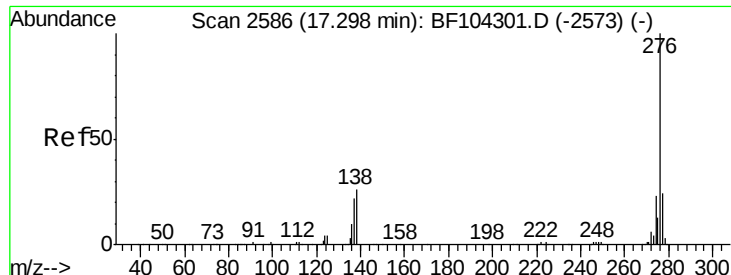
Sohil  
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#89  
Benzo(a)pyrene  
Concen: 8.124 ng  
RT: 15.37 min Scan# 2259  
Delta R.T. -0.01 min  
Lab File: BF104694.D  
Acq: 21 Apr 2018 1:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.1  | 25.7  |
| 125     | 15.2  | 9.8   | 14.6# |





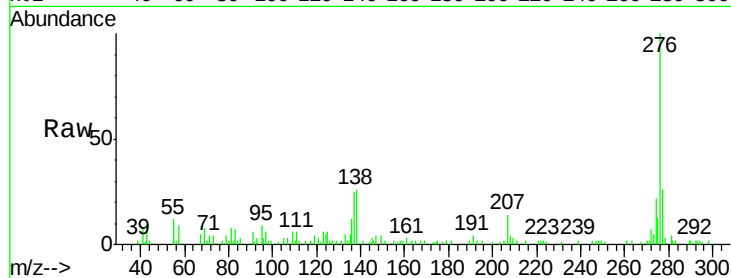
#91  
 Benzo(a,h,i)perylene  
 Concen: 5.420 ng  
 RT: 17.33 min Scan# 2592  
 Delta R.T. -0.00 min  
 Lab File: BF104694.D  
 Acq: 21 Apr 2018 1:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T-6\_1.0-1.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.4  | 17.9  | 26.9  |
| 138     | 26.2  | 21.8  | 32.8  |

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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

