

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG082019\  
 Data File : BG042366.D  
 Acq On : 20 Aug 2019 20:35  
 Operator : HP/JU  
 Sample : K4387-06  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 T6-D-(0-2)

Manual Integrations  
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mohammad  
 8/22/2019 12:49:12 PM

Quant Time: Aug 30 04:15:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG081919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 13:40:37 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.01  | 152  | 82940    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.83 | 136  | 309146   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.66 | 164  | 201209   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.42 | 188  | 378796   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.70 | 240  | 397926   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 24.94 | 264  | 459980   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.57  | 112  | 395570   | 96.63 | ng    | 0.00     |
| 7) Phenol-d6                | 7.17  | 99   | 552499   | 99.38 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.17  | 82   | 310797   | 70.71 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.16 | 330  | 245413   | 89.55 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.28 | 172  | 781143   | 65.69 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.03 | 244  | 1046607  | 57.61 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 15) Benzyl Alcohol          | 8.25  | 79   | 15550    | 4.067 | ng    | 99       |
| 50) Dimethylphthalate       | 14.11 | 163  | 49725    | 3.478 | ng    | 98       |
| 71) Phenanthrene            | 17.46 | 178  | 112030   | 5.938 | ng    | # 90     |
| 75) Fluoranthene            | 19.48 | 202  | 187589   | 8.246 | ng    | 95       |
| 78) Pyrene                  | 19.83 | 202  | 182354m  | 7.448 | ng    |          |
| 81) Benzo(a)anthracene      | 21.67 | 228  | 99760    | 4.082 | ng    | 97       |
| 83) Chrysene                | 21.74 | 228  | 95073    | 4.067 | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 23.91 | 252  | 118602   | 4.691 | ng    | # 89     |
| 90) Benzo(a)pyrene          | 24.78 | 252  | 85031    | 3.510 | ng    | # 85     |
| 92) Benzo(g,h,i)perylene    | 29.79 | 276  | 58595    | 2.433 | ng    | # 94     |

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

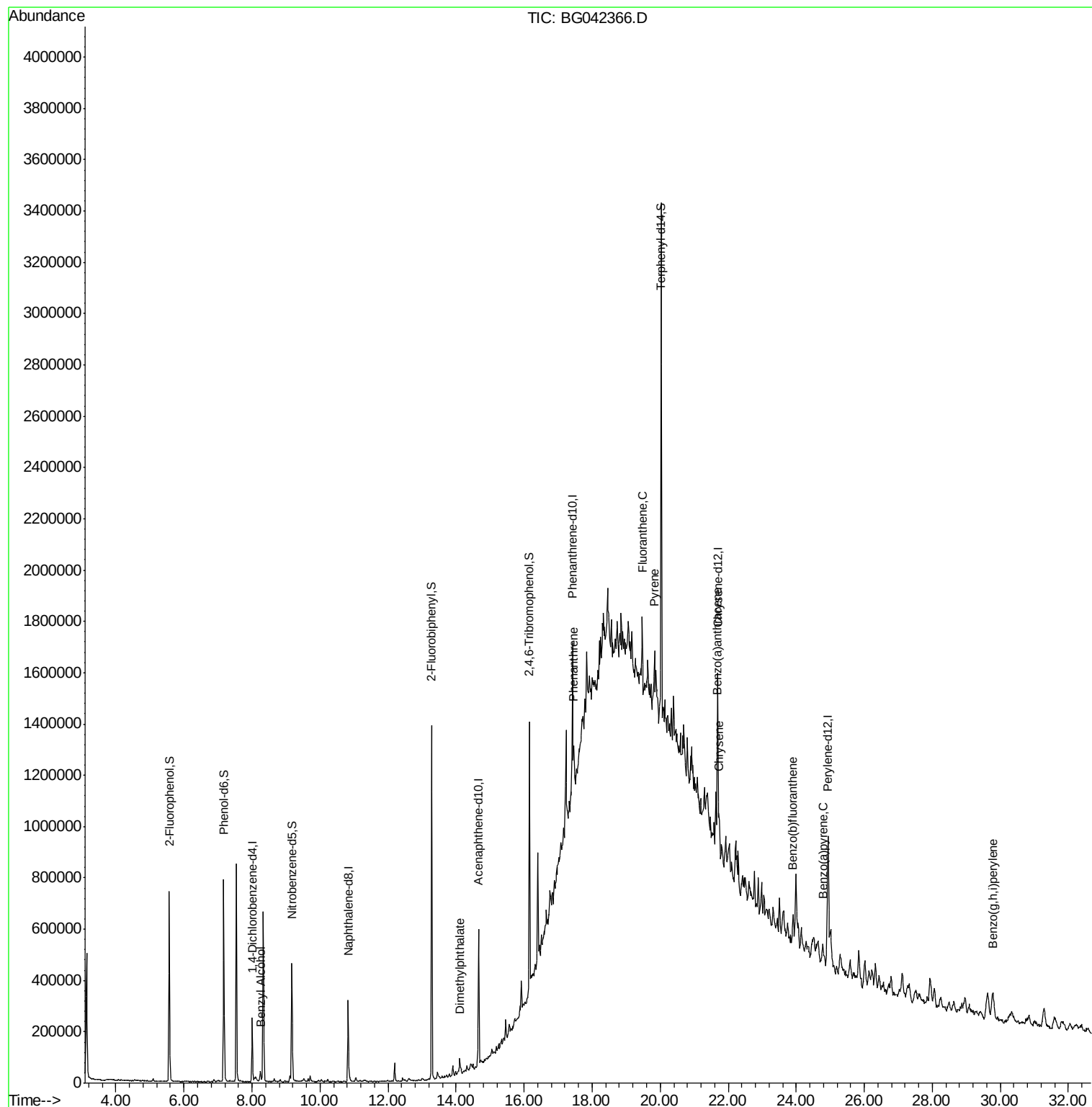
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG082019\  
Data File : BG042366.D  
Acq On : 20 Aug 2019 20:35  
Operator : HP/JU  
Sample : K4387-06  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

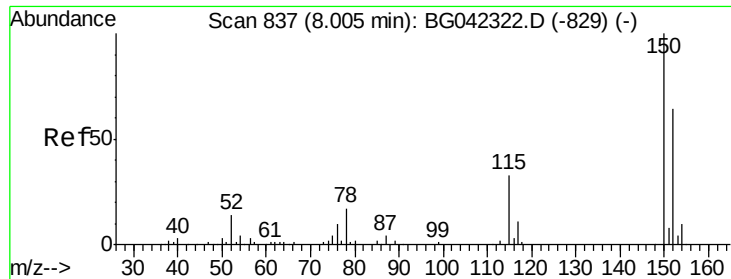
Instrument :  
BNA\_G  
ClientSampleId :  
T6-D-(0-2)

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Quant Time: Aug 30 04:15:14 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG081919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 19 13:40:37 2019  
Response via : Initial Calibration





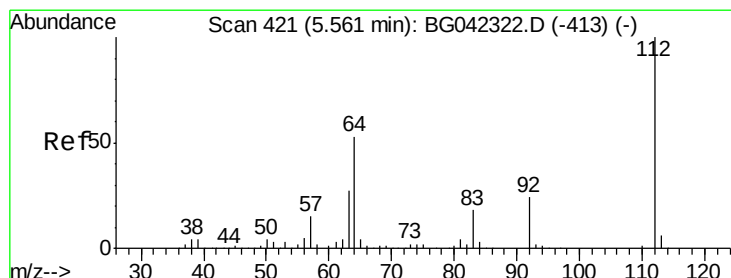
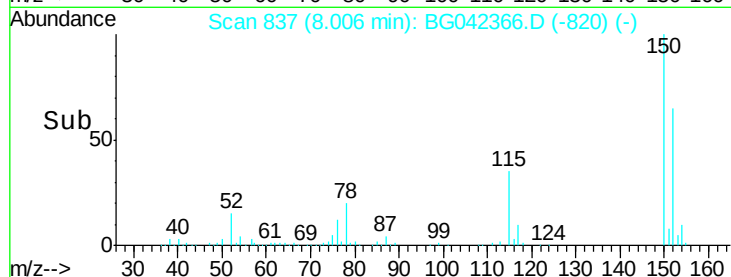
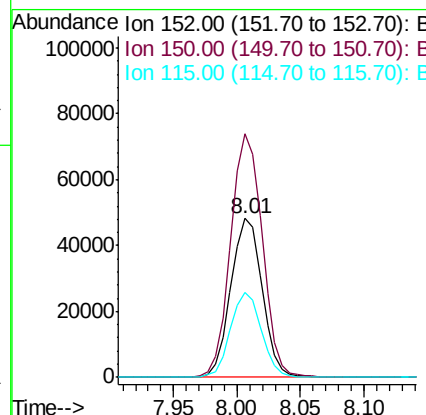
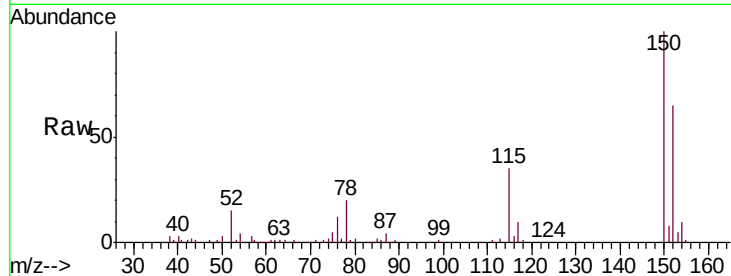
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.01 min Scan# 837  
 Delta R.T. 0.00 min  
 Lab File: BG042366.D  
 Acq: 20 Aug 2019 20:35

Instrument :  
 BNA\_G  
 ClientSampleID :  
 T6-D-(0-2)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.5 | 124.3 | 186.5 |
| 115     | 53.1  | 40.5  | 60.7  |

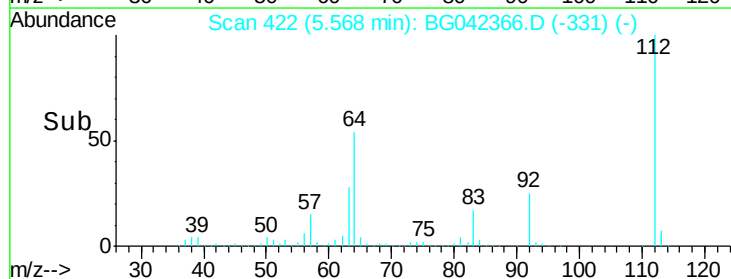
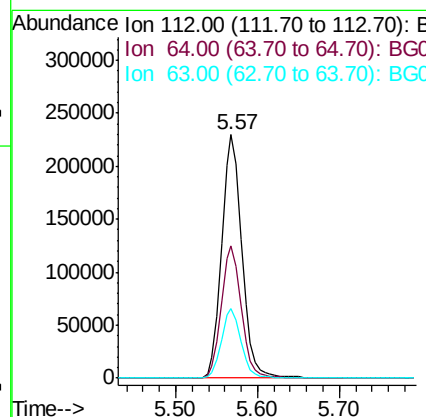
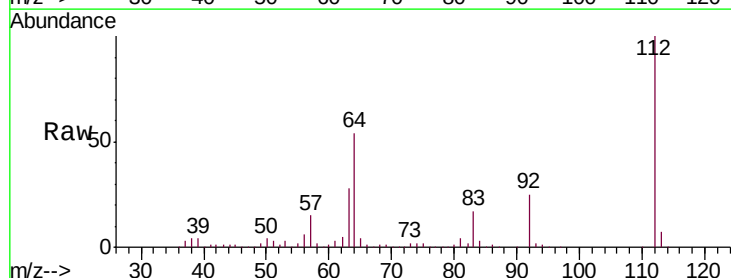
Manual Integrations  
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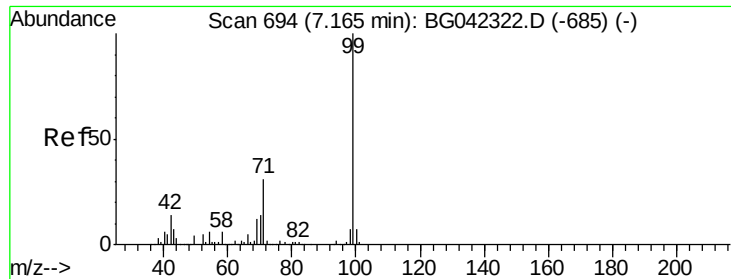
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#5  
 2-Fluorophenol  
 Concen: 96.632 ng  
 RT: 5.57 min Scan# 422  
 Delta R.T. 0.01 min  
 Lab File: BG042366.D  
 Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.3  | 42.5  | 63.7  |
| 63      | 28.4  | 21.7  | 32.5  |





#7

Phenol-d6

Concen: 99.378 ng

RT: 7.17 min Scan# 695

Delta R.T. 0.01 min

Lab File: BG042366.D

Acq: 20 Aug 2019 20:35

Instrument :

BNA\_G

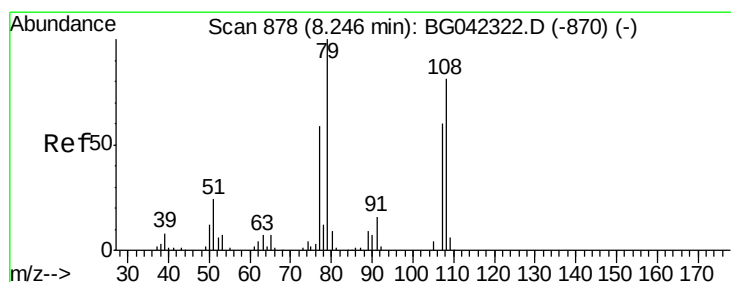
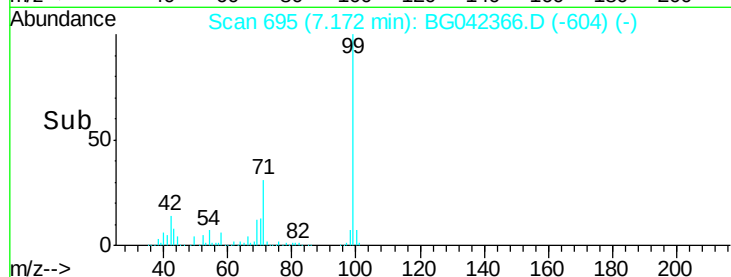
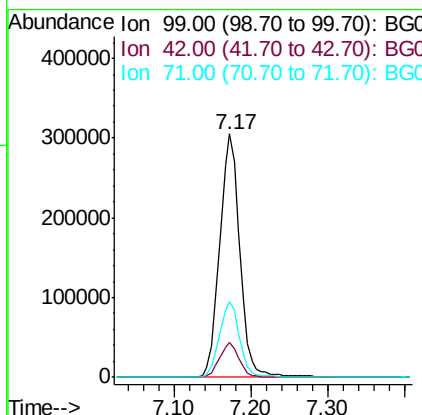
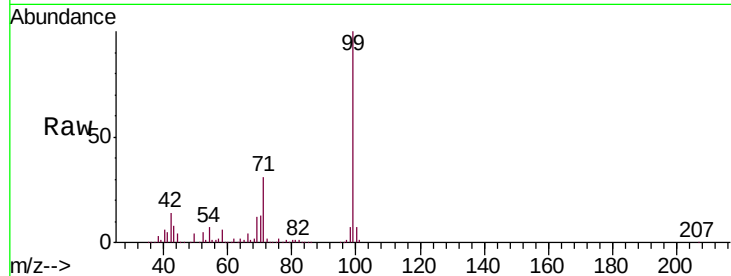
ClientSampleId :

T6-D-(0-2)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 552499 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 14.2  | 11.4  | 17.0   |
| 71       | 31.4  | 25.1  | 37.7   |

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#15

Benzyl Alcohol

Concen: 4.067 ng

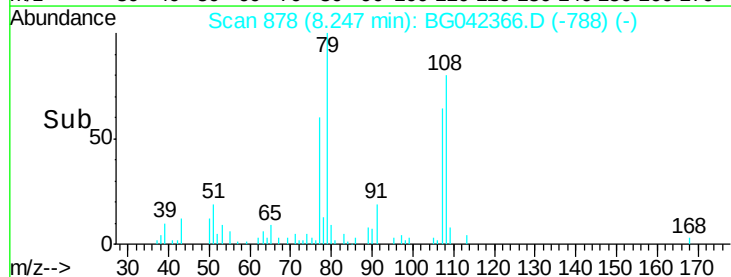
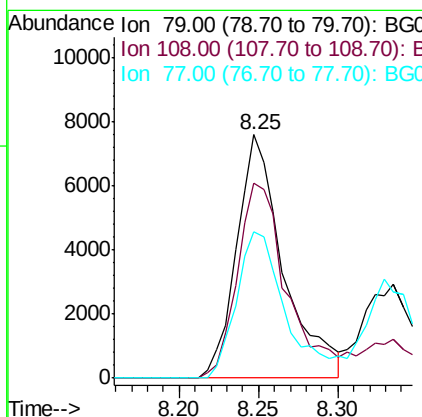
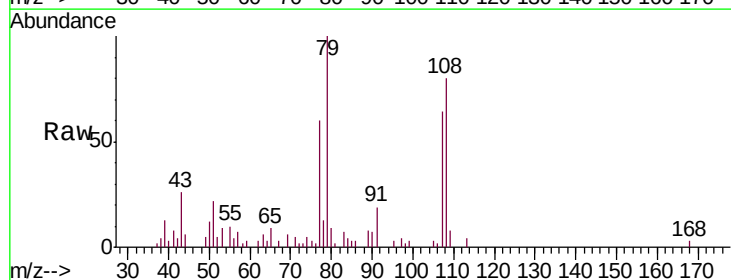
RT: 8.25 min Scan# 878

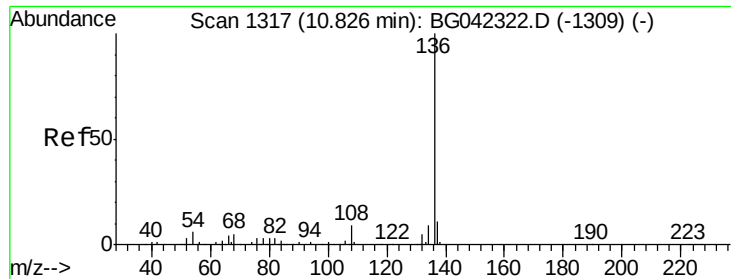
Delta R.T. 0.00 min

Lab File: BG042366.D

Acq: 20 Aug 2019 20:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 79    | Resp: | 15550 |
| Ion      | Ratio | Lower | Upper |
| 79       | 100   |       |       |
| 108      | 80.1  | 64.8  | 97.2  |
| 77       | 60.1  | 47.6  | 71.4  |





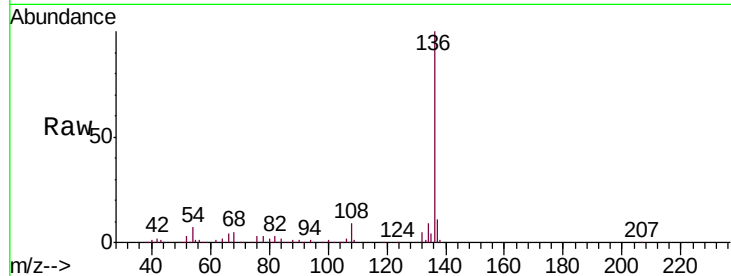
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1317  
Delta R.T. 0.00 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

Instrument :  
BNA\_G  
ClientSampled :  
T6-D-(0-2)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 309146 |       |       |
| 137     | 10.7  | 8.4    | 12.6  |       |
| 54      | 6.6   | 5.0    | 7.4   |       |
| 68      | 4.7   | 3.8    | 5.8   |       |

Manual Integrations  
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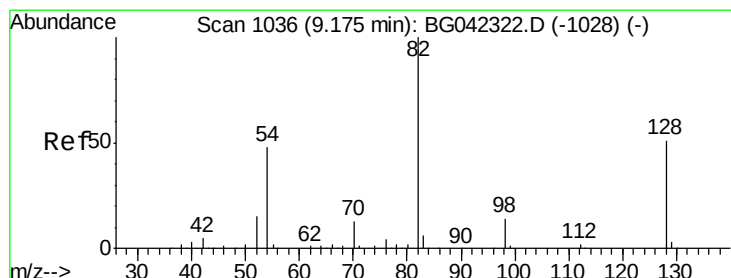
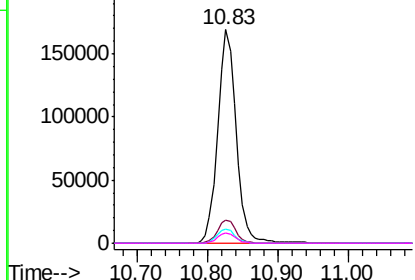
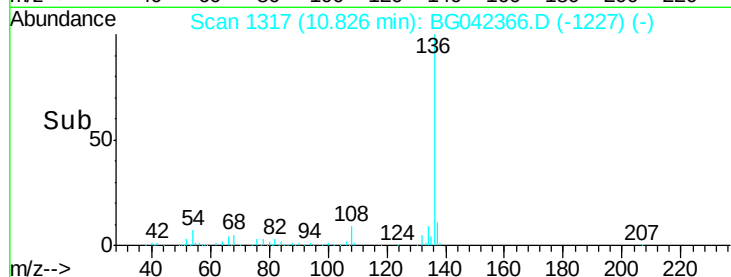
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

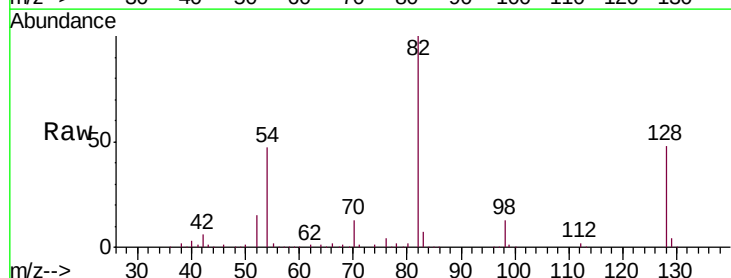
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23  
Nitrobenzene-d5  
Concen: 70.709 ng  
RT: 9.17 min Scan# 1035  
Delta R.T. -0.01 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 310797 |       |       |
| 128     | 48.3  | 41.0   | 61.4  |       |
| 54      | 46.7  | 38.0   | 57.0  |       |

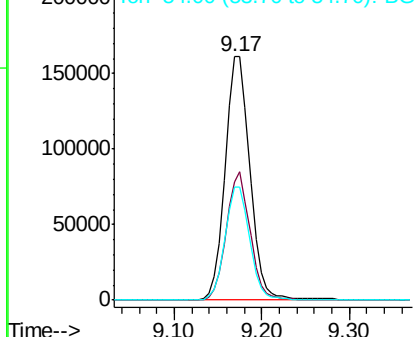
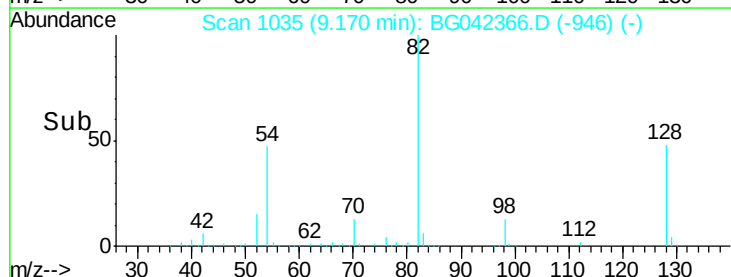


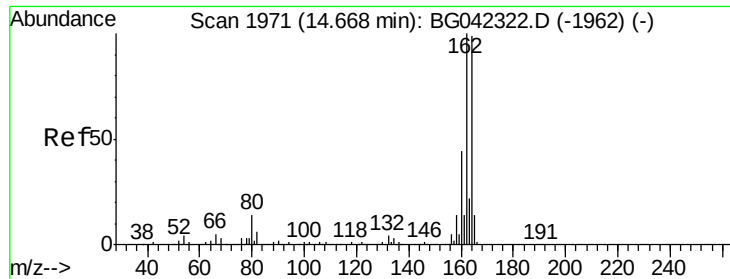
Abundance

Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





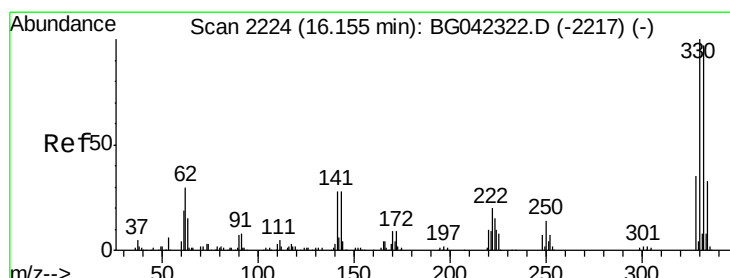
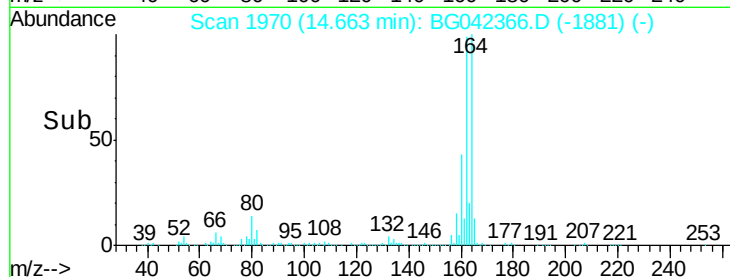
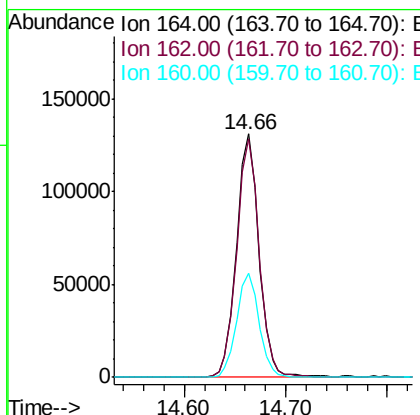
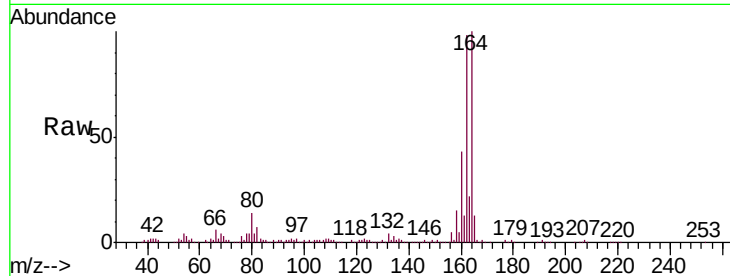
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.66 min Scan# 1970  
Delta R.T. -0.01 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

Instrument :  
BNA\_G  
ClientSampleId :  
T6-D-(0-2)

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 201209 |       |       |
| 162     | 98.2  | 80.6   | 120.8 |       |
| 160     | 42.7  | 35.7   | 53.5  |       |

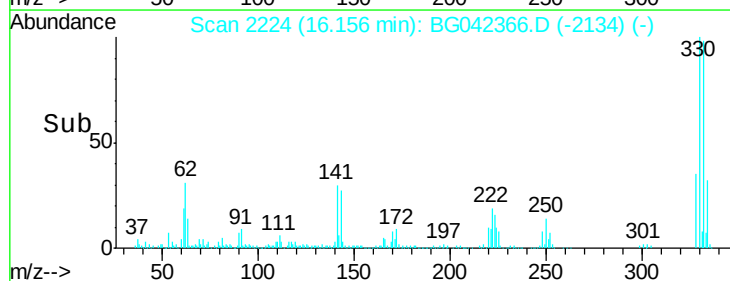
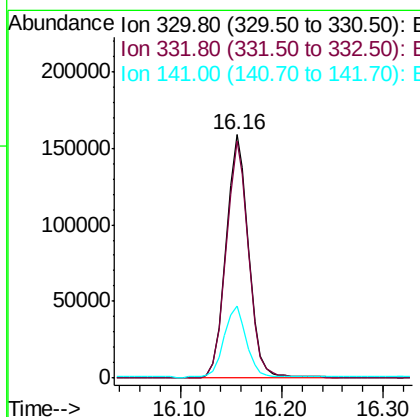
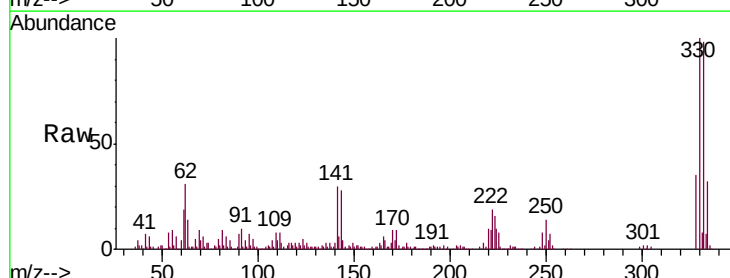
Manual Integrations  
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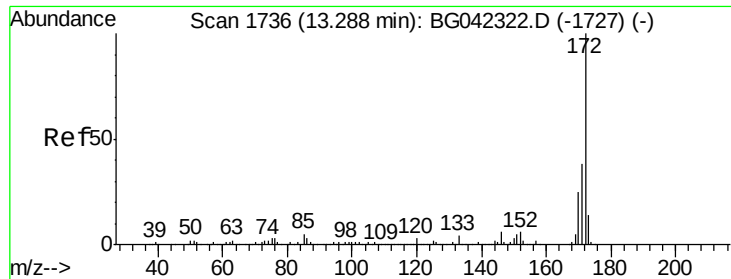
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#42  
2,4,6-Tribromophenol  
Concen: 89.553 ng  
RT: 16.16 min Scan# 2224  
Delta R.T. 0.00 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 245413 |       |       |
| 332     | 96.7  | 76.9   | 115.3 |       |
| 141     | 29.0  | 21.8   | 32.6  |       |





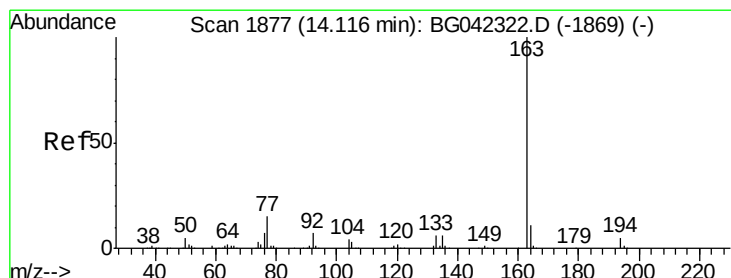
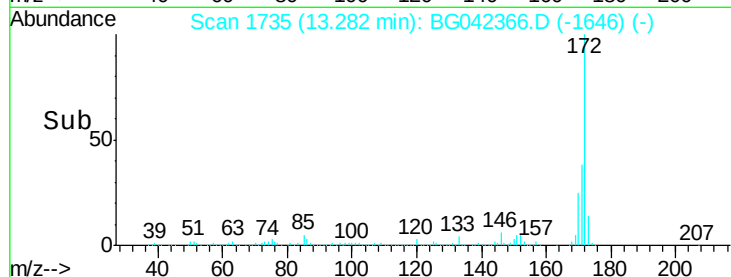
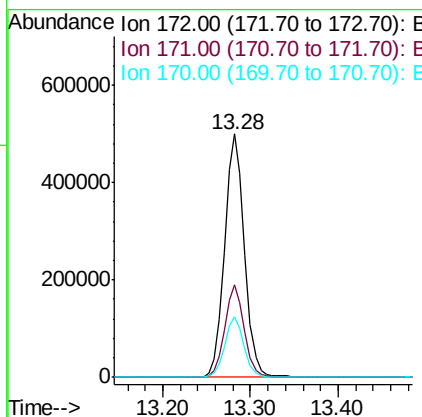
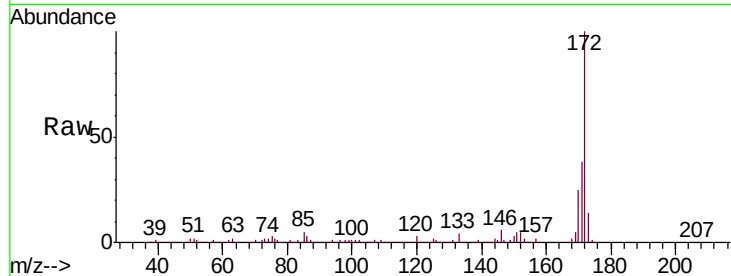
#45  
2-Fluorobiphenyl  
Concen: 65.694 ng  
RT: 13.28 min Scan# 1735  
Delta R.T. -0.01 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

Instrument :  
BNA\_G  
ClientSampleId :  
T6-D-(0-2)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.9  | 30.3  | 45.5  |
| 170     | 24.7  | 20.0  | 30.0  |

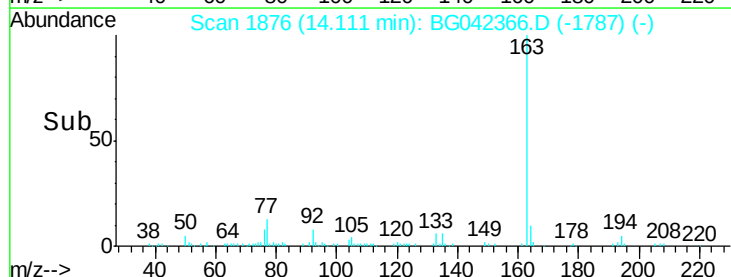
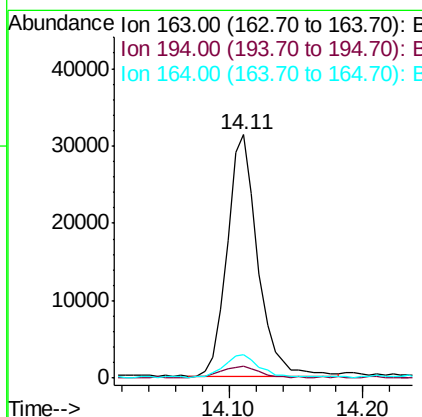
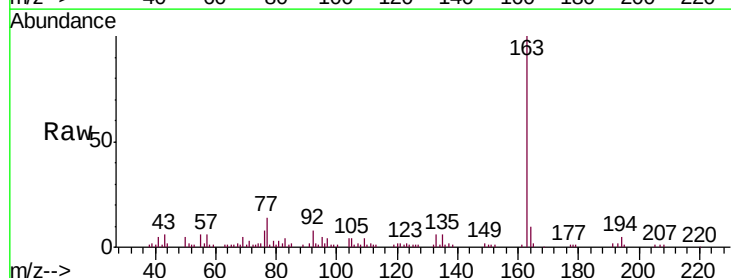
Manual Integrations  
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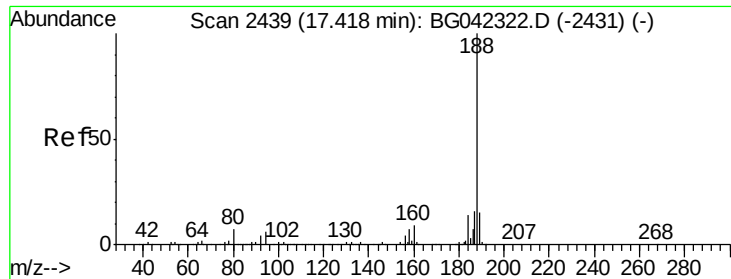
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#50  
Dimethylphthalate  
Concen: 3.478 ng  
RT: 14.11 min Scan# 1876  
Delta R.T. -0.01 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.0   | 4.2   | 6.2   |
| 164     | 9.8   | 8.8   | 13.2  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2439

Delta R.T. 0.00 min

Lab File: BG042366.D

Acq: 20 Aug 2019 20:35

Instrument :

BNA\_G

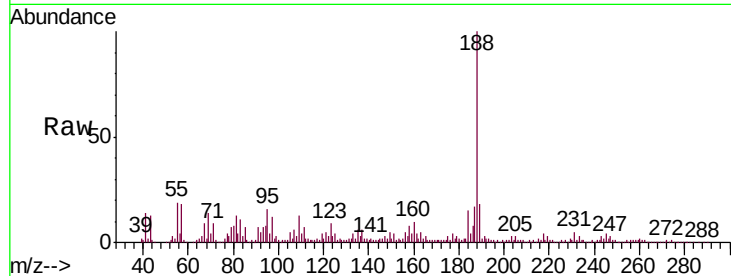
ClientSampleId :

T6-D-(0-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 378796 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.1   | 4.9   | 7.3#   |
| 80        | 8.0   | 5.4   | 8.0    |

Manual Integrations  
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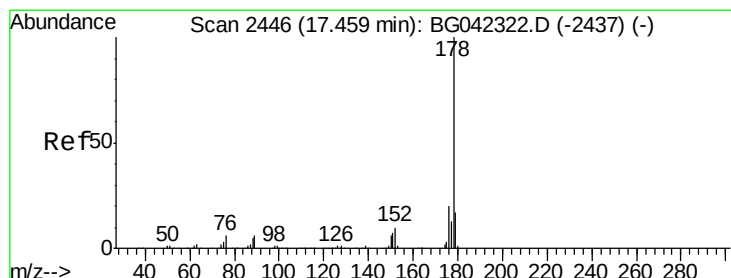
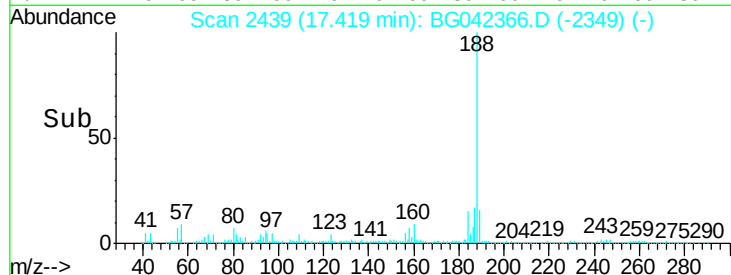
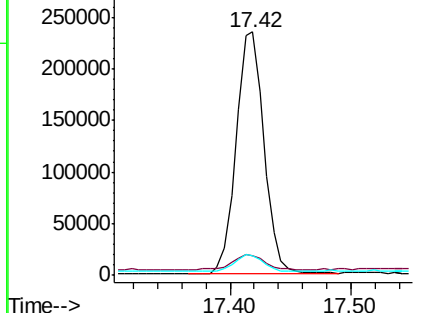
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#71

Phenanthrene

Concen: 5.938 ng

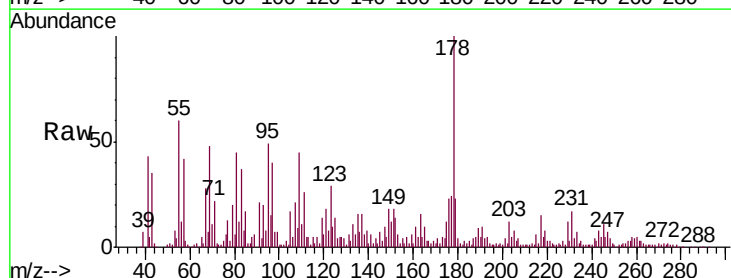
RT: 17.46 min Scan# 2446

Delta R.T. 0.00 min

Lab File: BG042366.D

Acq: 20 Aug 2019 20:35

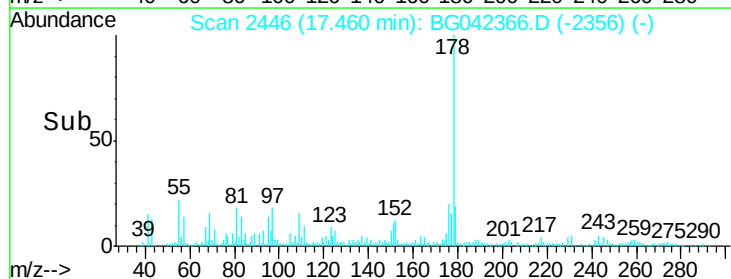
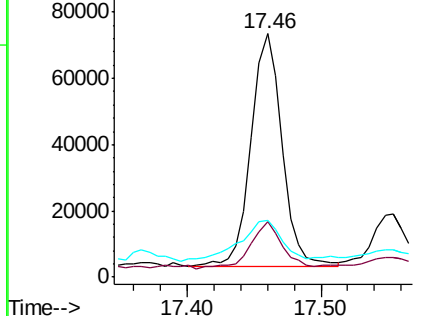
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 112030 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 23.0  | 16.2  | 24.4   |
| 179       | 23.3  | 13.7  | 20.5#  |



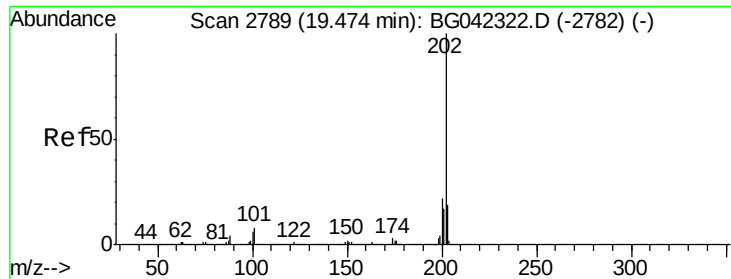
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#75

Fluoranthene

Concen: 8.246 ng

RT: 19.48 min Scan# 2789

Delta R.T. 0.00 min

Lab File: BG042366.D

Acq: 20 Aug 2019 20:35

Instrument :

BNA\_G

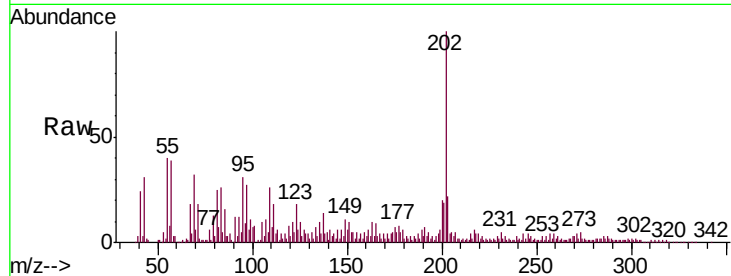
ClientSampleId :

T6-D-(0-2)

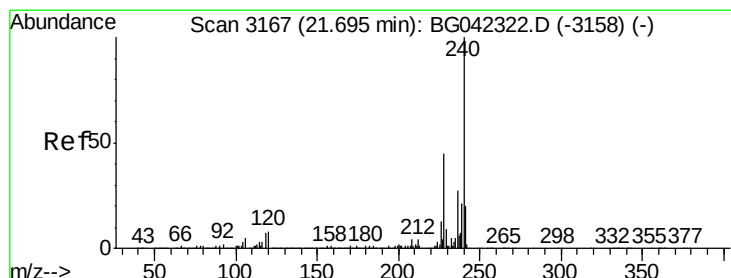
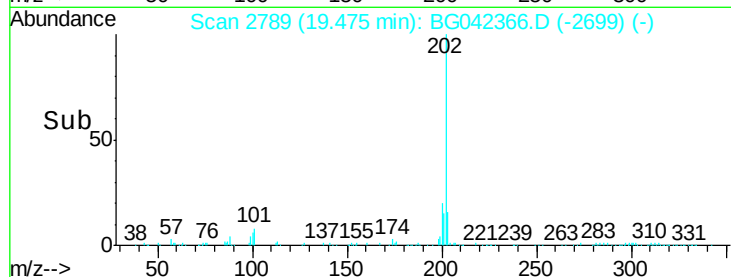
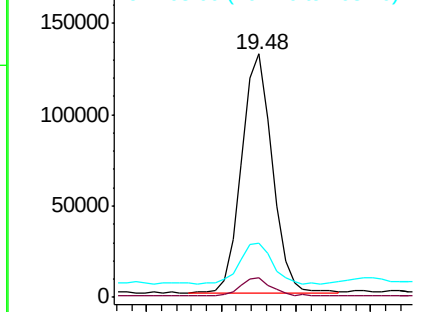
| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 187589 |       |       |
| 101 | 7.9  | 0.0   | 28.0   |       |       |
| 203 | 22.5 | 0.0   | 39.1   |       |       |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

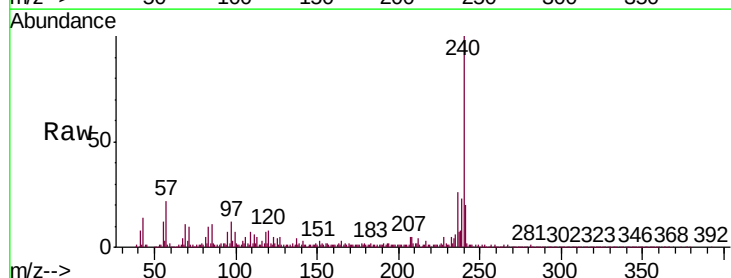
RT: 21.70 min Scan# 3167

Delta R.T. 0.00 min

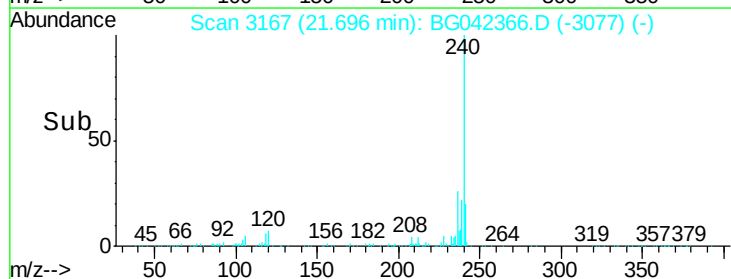
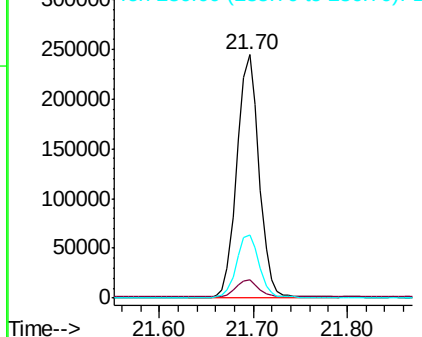
Lab File: BG042366.D

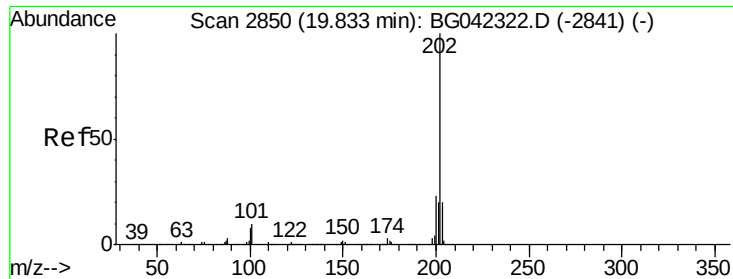
Acq: 20 Aug 2019 20:35

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 240 | 100  |       | 397926 |       |       |
| 120 | 7.5  | 6.0   | 9.0    |       |       |
| 236 | 25.9 | 21.6  | 32.4   |       |       |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





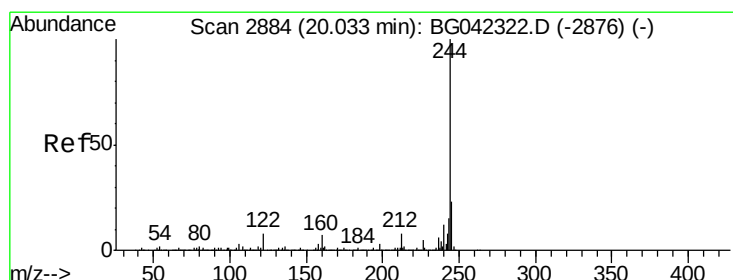
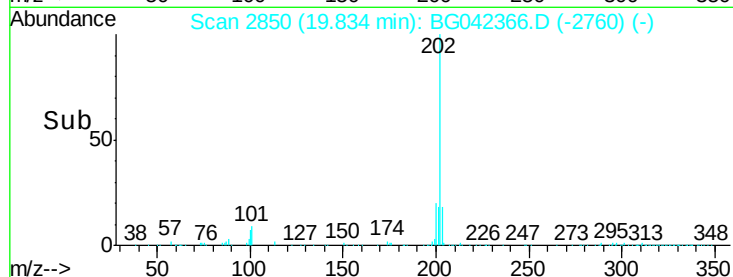
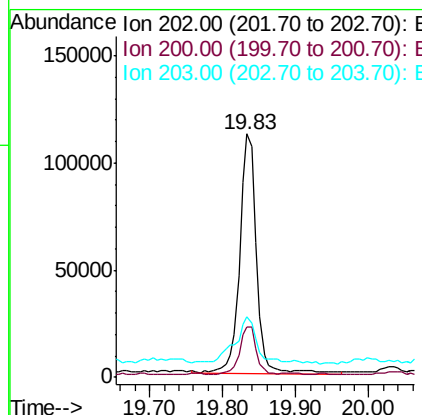
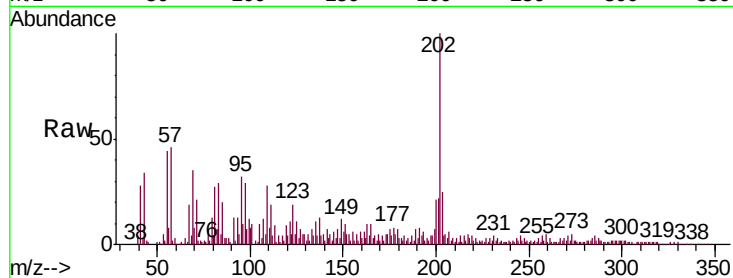
#78  
 Pyrene  
 Concen: 7.448 ng m  
 RT: 19.83 min Scan# 2850  
 Delta R.T. 0.00 min  
 Lab File: BG042366.D  
 Acq: 20 Aug 2019 20:35

Instrument :  
 BNA\_G  
 ClientSampleId :  
 T6-D-(0-2)

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.7  | 18.1       | 27.1       |
| 203     | 25.1  | 15.8       | 23.8       |

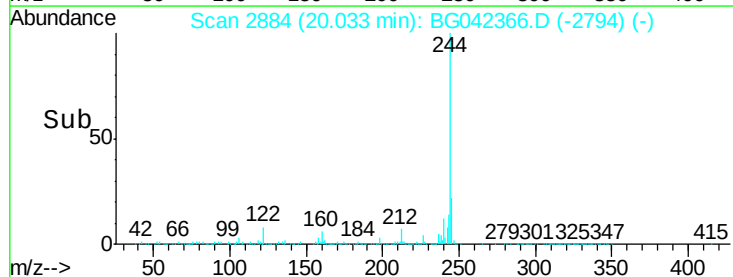
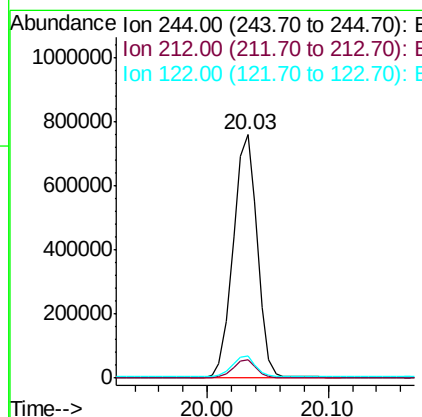
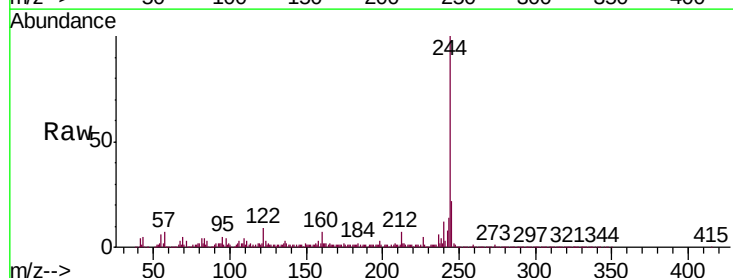
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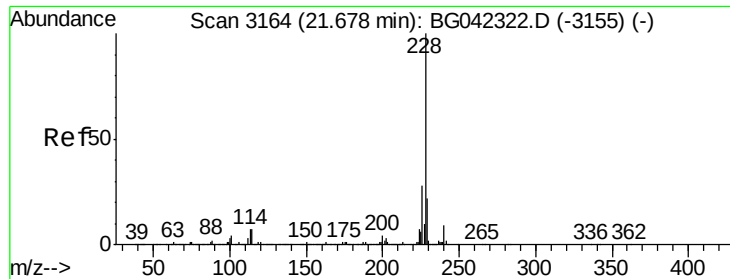
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#79  
 Terphenyl-d14  
 Concen: 57.608 ng  
 RT: 20.03 min Scan# 2884  
 Delta R.T. 0.00 min  
 Lab File: BG042366.D  
 Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 7.4   | 6.4        | 9.6        |
| 122     | 8.9   | 6.6        | 10.0       |





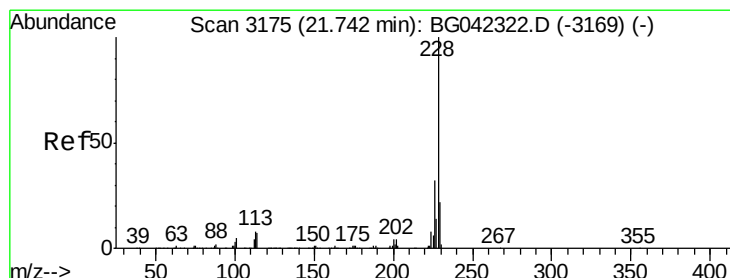
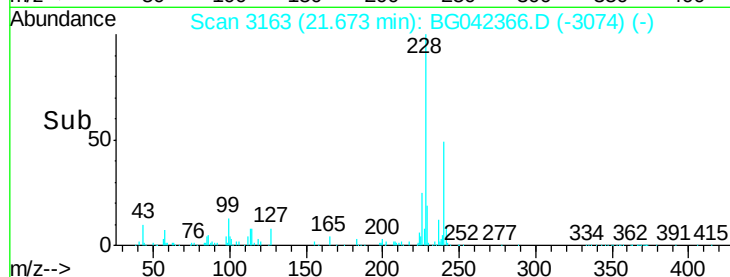
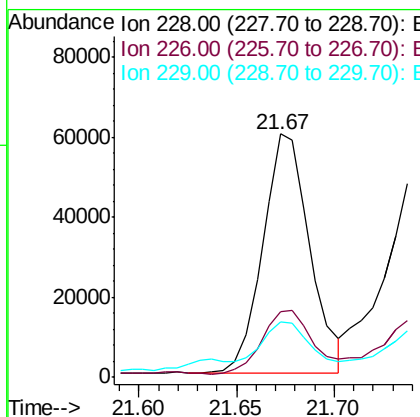
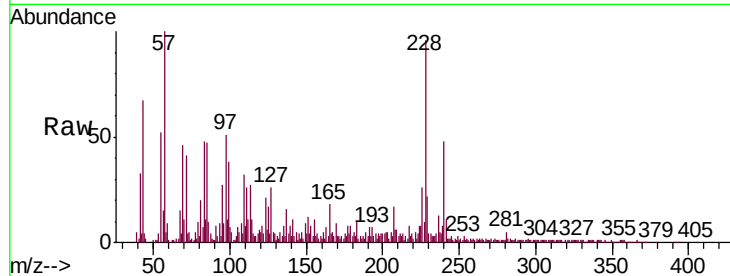
#81  
Benzo(a)anthracene  
Concen: 4.082 ng  
RT: 21.67 min Scan# 3163  
Delta R.T. -0.01 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

Instrument :  
BNA\_G  
ClientSampleId :  
T6-D-(0-2)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.9  | 22.7  | 34.1  |
| 229     | 22.9  | 17.4  | 26.2  |

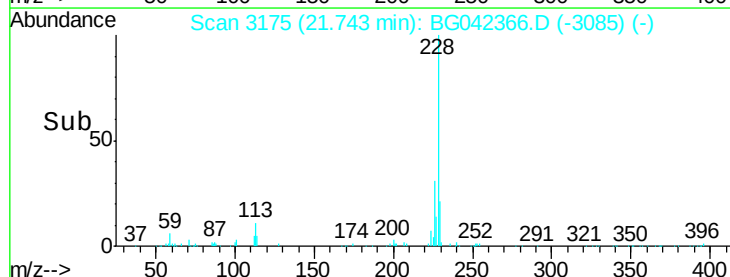
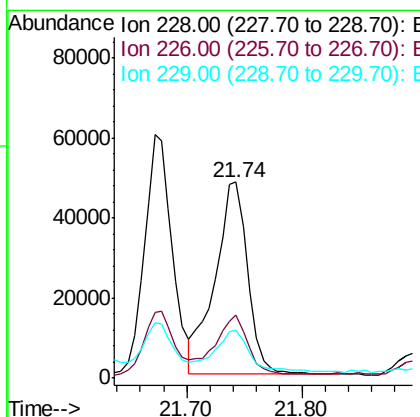
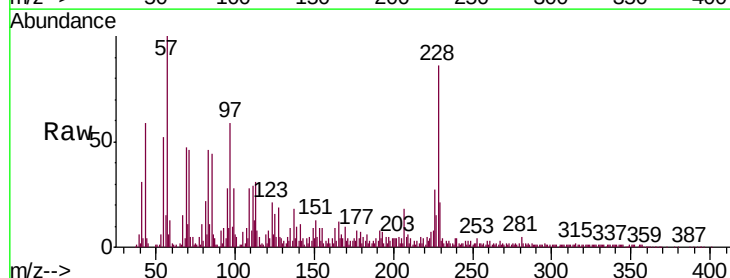
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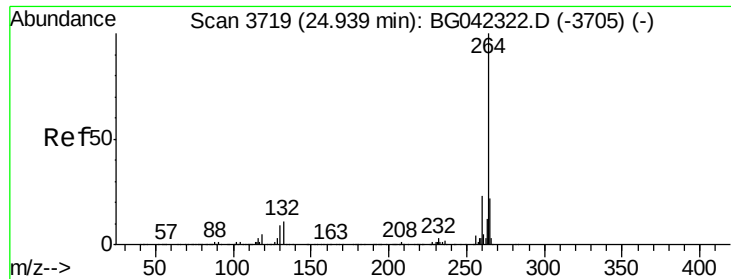
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#83  
Chrysene  
Concen: 4.067 ng  
RT: 21.74 min Scan# 3175  
Delta R.T. 0.00 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 25.6  | 38.4  |
| 229     | 24.3  | 17.8  | 26.6  |





#87

Perylene-d12

Concen: 20.000 ng

RT: 24.94 min Scan# 3719

Delta R.T. 0.00 min

Lab File: BG042366.D

Acq: 20 Aug 2019 20:35

Instrument :

BNA\_G

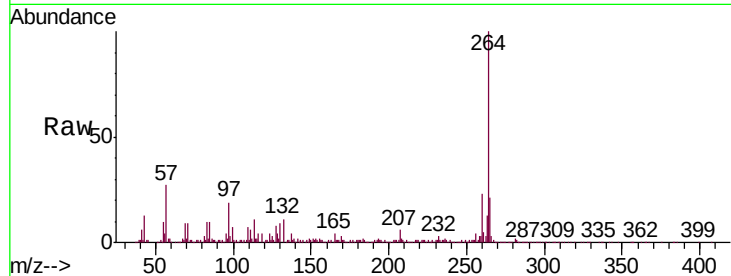
ClientSampleId :

T6-D-(0-2)

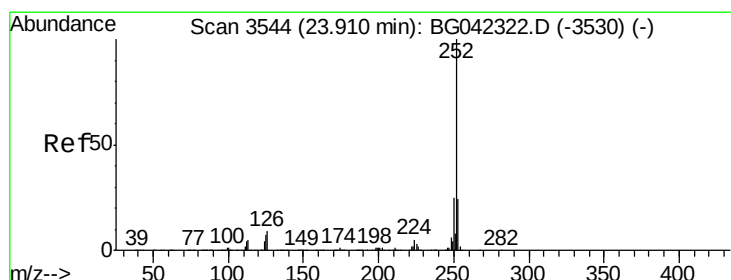
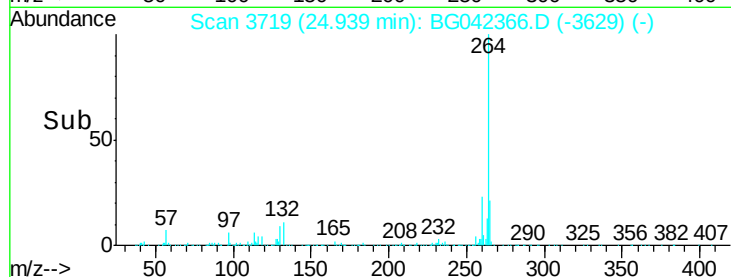
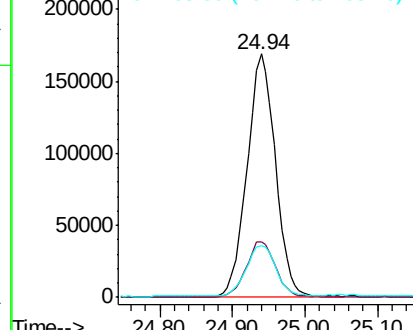
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 459980 |       |       |
| 260     | 22.7  | 18.4   | 27.6  |       |
| 265     | 21.4  | 17.4   | 26.0  |       |

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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



#88

Benzo(b)fluoranthene

Concen: 4.691 ng

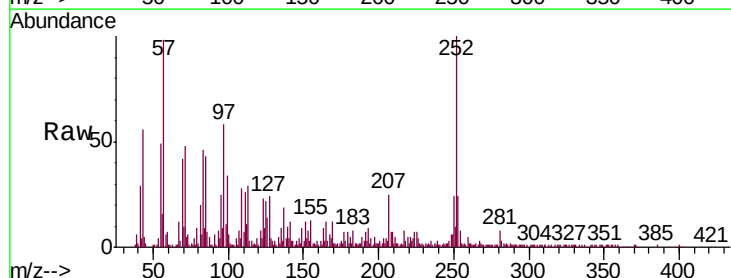
RT: 23.91 min Scan# 3544

Delta R.T. 0.00 min

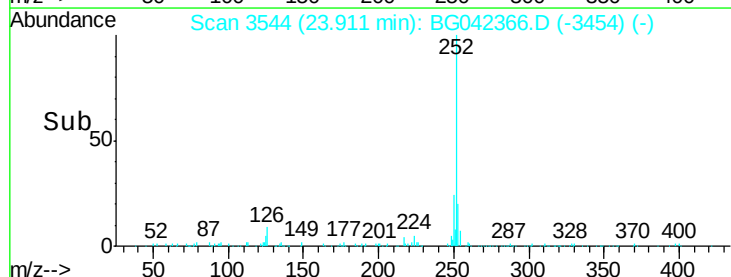
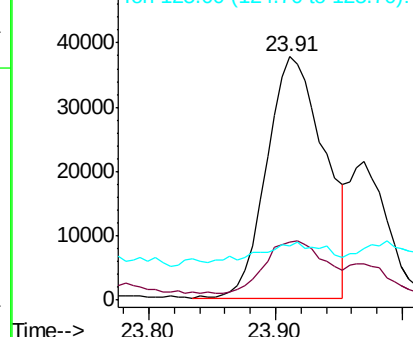
Lab File: BG042366.D

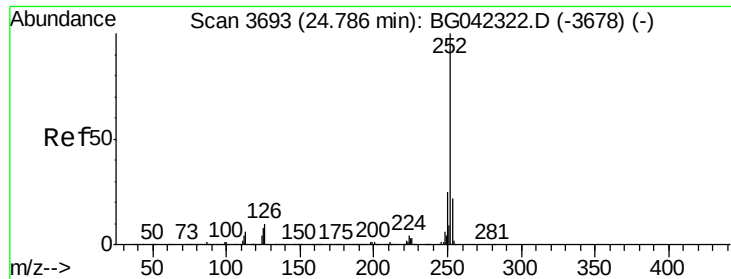
Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 118602 |       |       |
| 253     | 24.0  | 18.9   | 28.3  |       |
| 125     | 22.1  | 5.8    | 8.6#  |       |



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





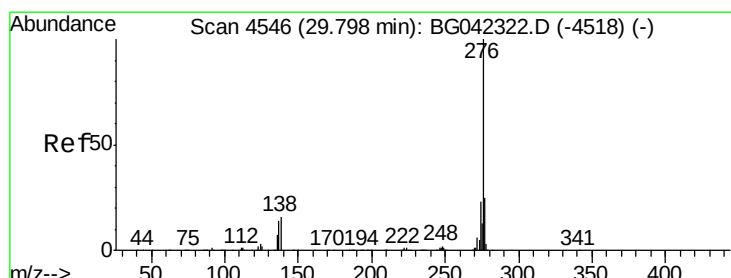
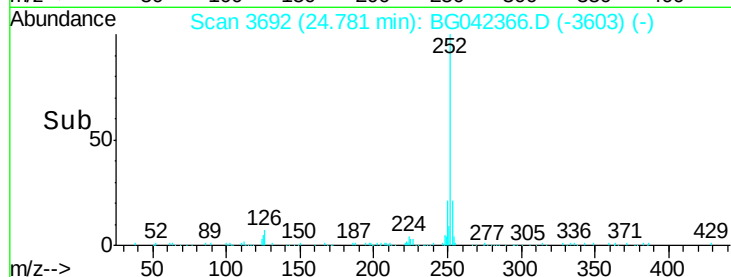
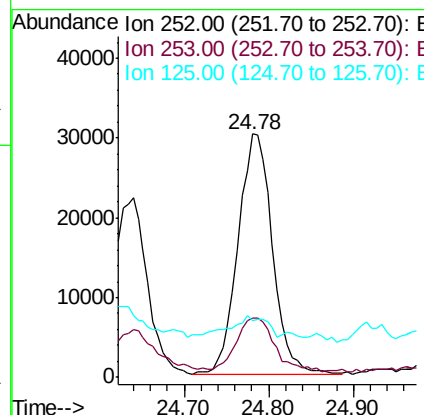
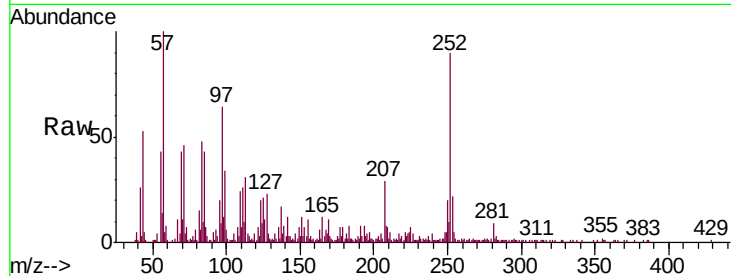
#90  
Benzo(a)pyrene  
Concen: 3.510 ng  
RT: 24.78 min Scan# 3692  
Delta R.T. -0.01 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

Instrument :  
BNA\_G  
ClientSampleId :  
T6-D-(0-2)

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 252     | 100   | 85031 |       |       |
| 253     | 24.5  | 17.9  | 26.9  |       |
| 125     | 23.5  | 6.7   | 10.1# |       |

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#92  
Benzo(g,h,i)perylene  
Concen: 2.433 ng  
RT: 29.79 min Scan# 4544  
Delta R.T. -0.01 min  
Lab File: BG042366.D  
Acq: 20 Aug 2019 20:35

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 58595 |       |       |
| 277     | 27.3  | 19.8  | 29.8  |       |
| 138     | 19.4  | 12.8  | 19.2# |       |

