

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG102317\  
 Data File : BG029406.D  
 Acq On : 23 Oct 2017 19:32  
 Operator : SJ/JU  
 Sample : I6063-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S-1-A

Manual Integrations  
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 10/24/2017 8:47:43 PM

Quant Time: Oct 24 06:46:30 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG101617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 16 17:32:15 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.17  | 152  | 74582    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.98 | 136  | 325131   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.78 | 164  | 214513   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.52 | 188  | 560979   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.79 | 240  | 630011   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 25.09 | 264  | 629635   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.72  | 112  | 519377   | 116.33 | ng    | 0.00     |
| 7) Phenol-d6                | 7.32  | 99   | 626704   | 100.01 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.33  | 82   | 435385   | 85.10  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.26 | 330  | 373176   | 134.74 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.41 | 172  | 1128827  | 77.18  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.11 | 244  | 2069342  | 74.72  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 11.03 | 128  | 130089   | 8.028  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 12.63 | 142  | 43093    | 3.649  | ng    | 92       |
| 51) Acenaphthene            | 14.84 | 154  | 42484    | 3.102  | ng    | 99       |
| 54) Dibenzofuran            | 15.18 | 168  | 68163    | 3.487  | ng    | 98       |
| 57) Fluorene                | 15.82 | 166  | 39347    | 2.436  | ng    | 96       |
| 70) Phenanthrene            | 17.56 | 178  | 102732   | 3.545  | ng    | 100      |

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

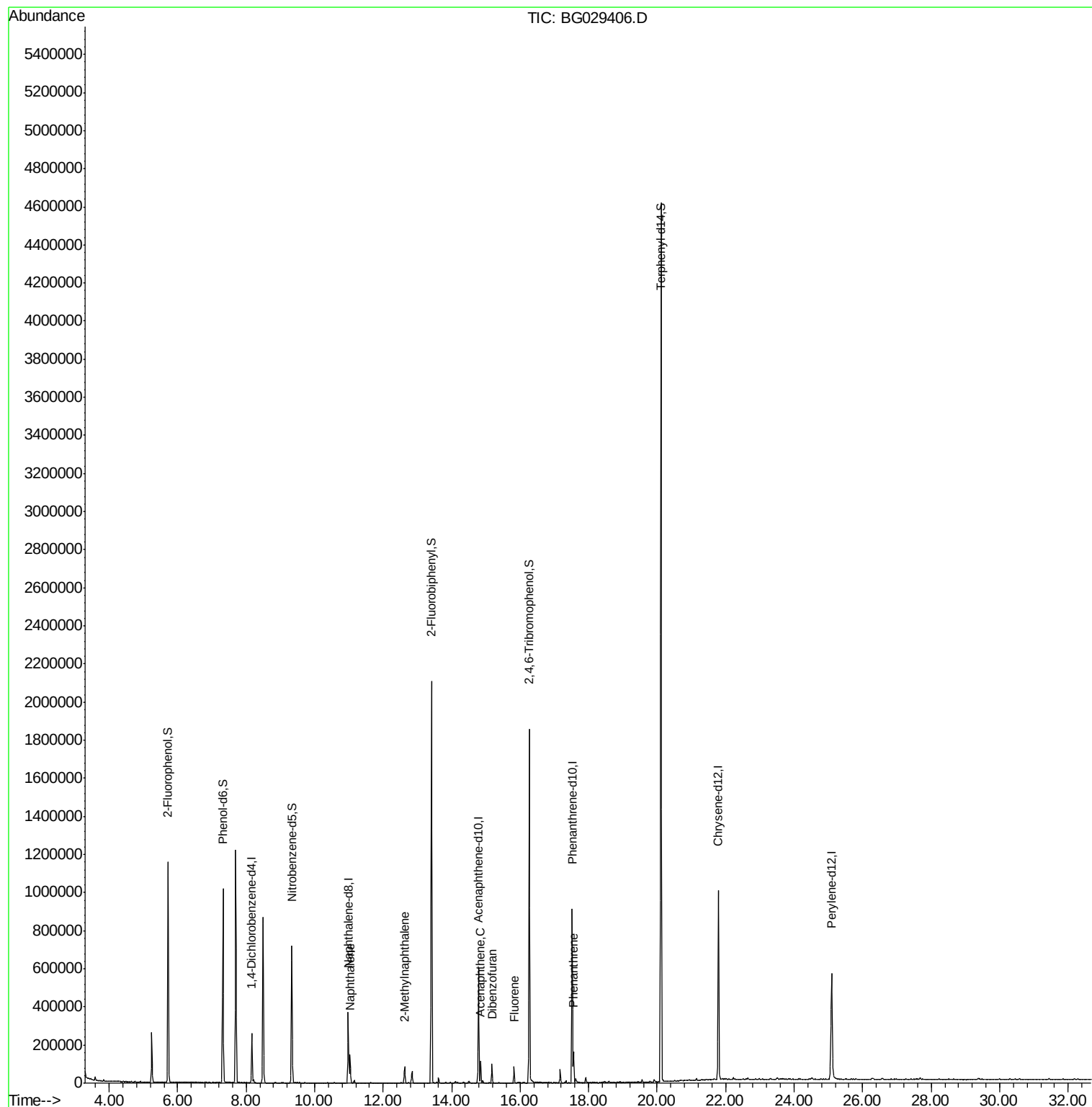
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG102317\  
Data File : BG029406.D  
Acq On : 23 Oct 2017 19:32  
Operator : SJ/JU  
Sample : I6063-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

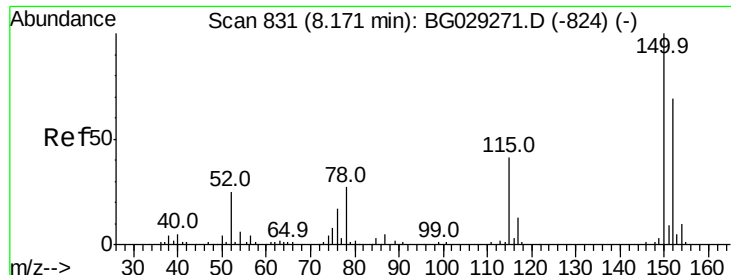
Instrument :  
BNA\_G  
ClientSampleId :  
S-1-A

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Quant Time: Oct 24 06:46:30 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG101617.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 16 17:32:15 2017  
Response via : Initial Calibration





#1

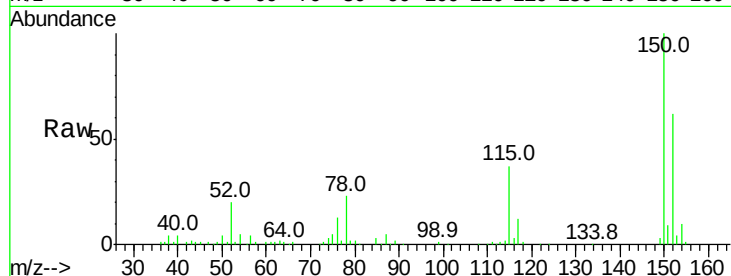
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 830  
Delta R.T. -0.00 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

Instrument :  
BNA\_G  
ClientSampleId :  
S-1-A

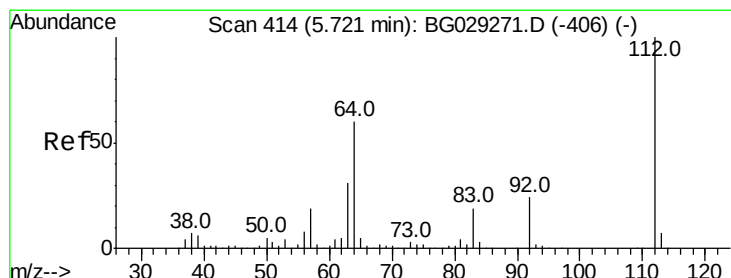
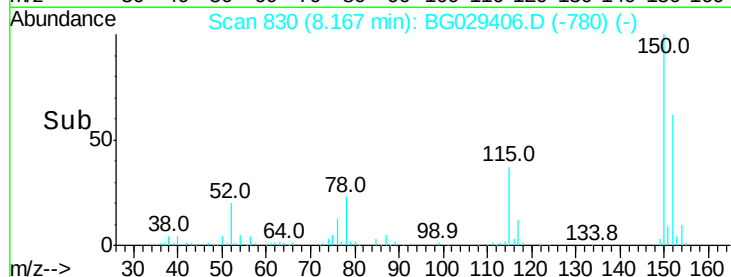
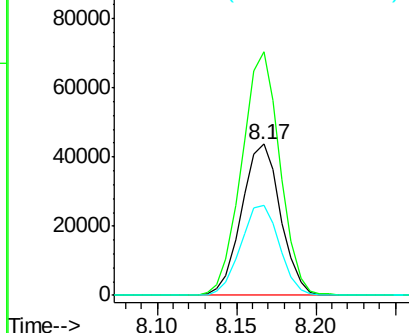
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.2 | 126.6 | 189.8 |
| 115     | 59.5  | 53.0  | 79.4  |

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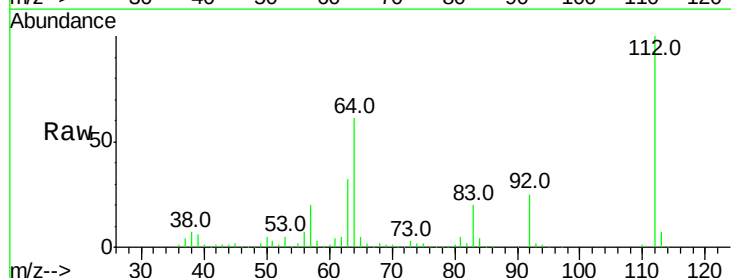
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



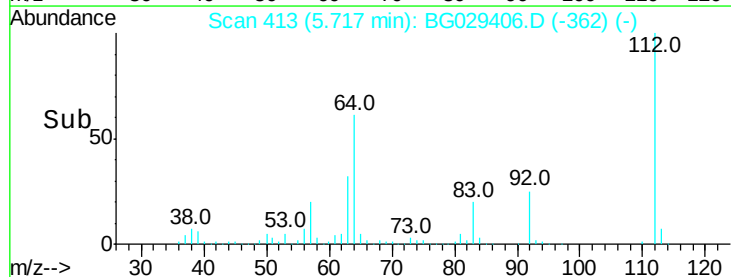
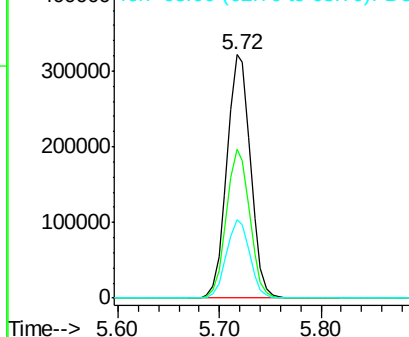
#5

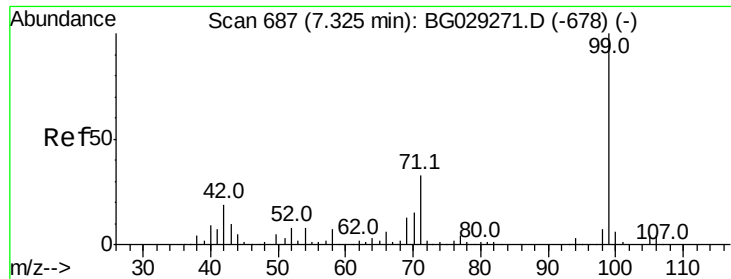
2-Fluorophenol  
Concen: 116.335 ng  
RT: 5.72 min Scan# 413  
Delta R.T. -0.00 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.1  | 56.3  | 84.5  |
| 63      | 32.1  | 30.1  | 45.1  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG  
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 100.006 ng

RT: 7.32 min Scan# 686

Delta R.T. -0.00 min

Lab File: BG029406.D

Acq: 23 Oct 2017 19:32

Instrument :

BNA\_G

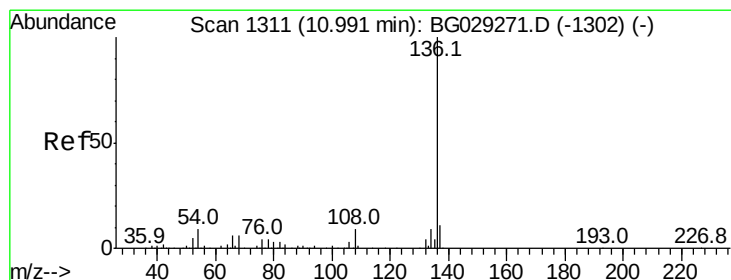
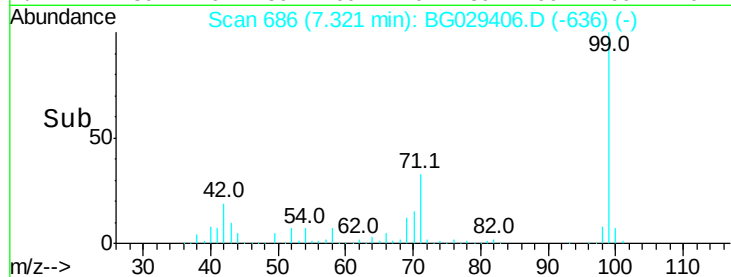
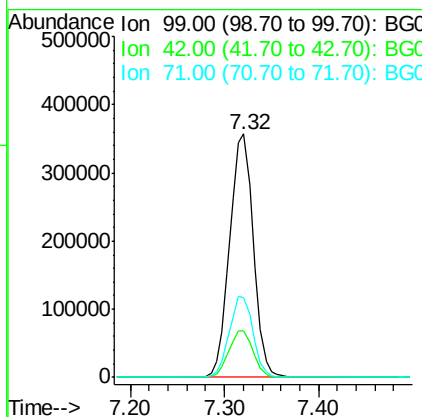
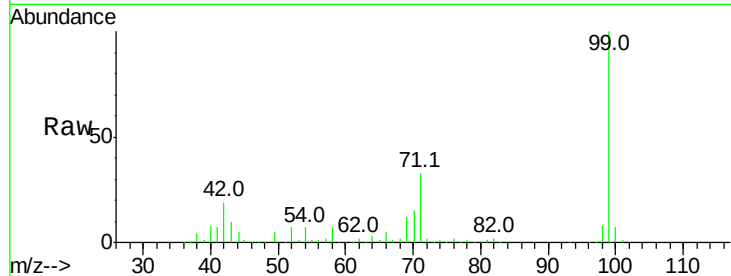
ClientSampleId :

S-1-A

| Tot Ion   | 99    | Resp  | 626704 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.3  | 14.1  | 21.1   |
| 71        | 33.0  | 26.1  | 39.1   |

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#21

Naphthalene-d8

Concen: 20.000 ng

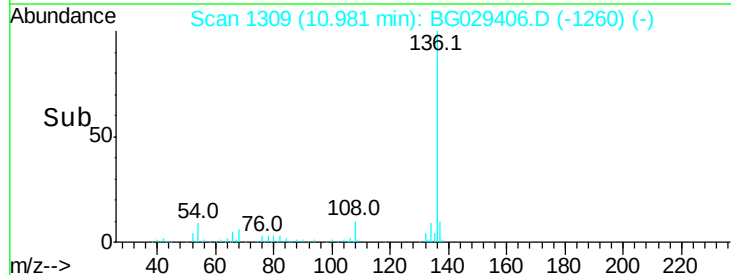
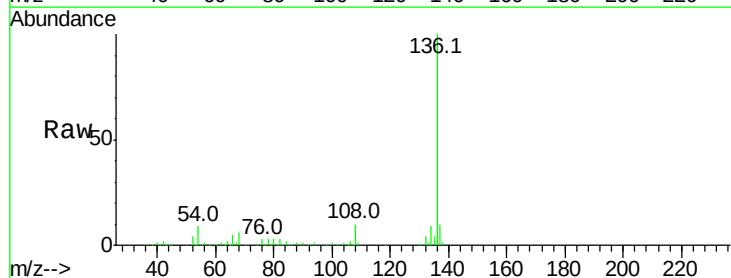
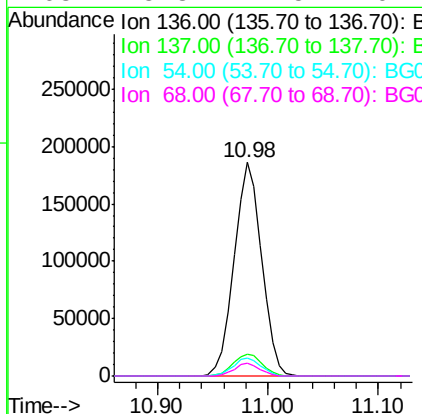
RT: 10.98 min Scan# 1309

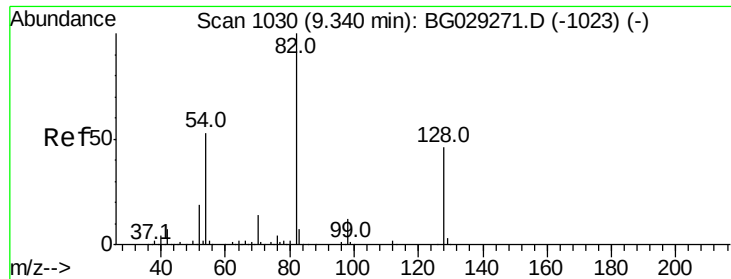
Delta R.T. -0.01 min

Lab File: BG029406.D

Acq: 23 Oct 2017 19:32

| Tgt Ion   | 136   | Resp  | 325131 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.5  | 9.2   | 13.8   |
| 54        | 8.5   | 10.3  | 15.5#  |
| 68        | 5.8   | 4.5   | 6.7    |





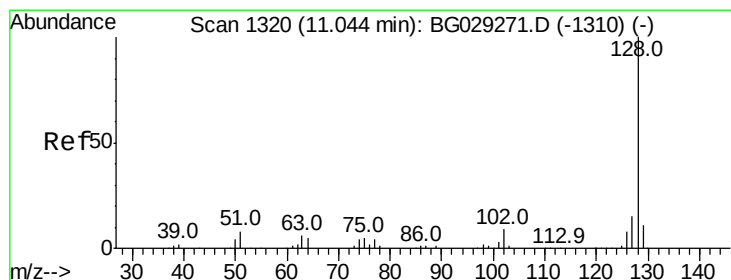
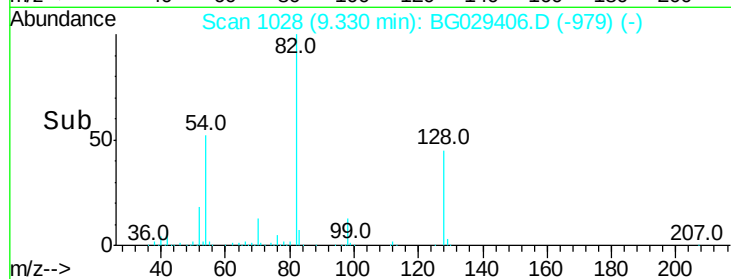
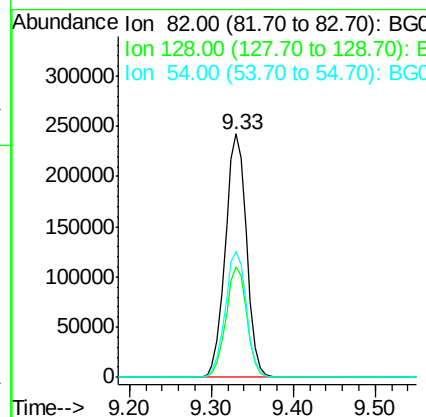
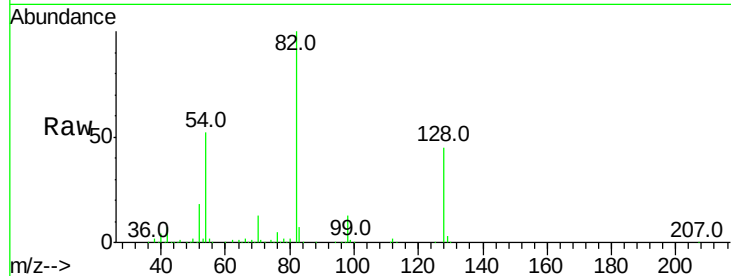
#23  
Nitrobenzene-d5  
Concen: 85.096 ng  
RT: 9.33 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

Instrument :  
BNA\_G  
ClientSampleId :  
S-1-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.5  | 29.7  | 44.5# |
| 54      | 51.6  | 43.1  | 64.7  |

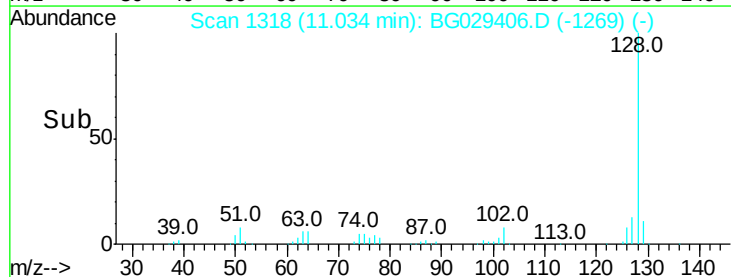
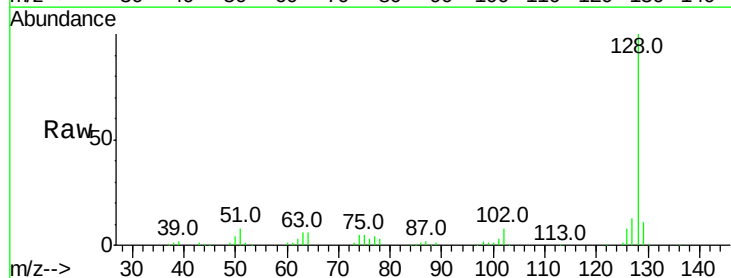
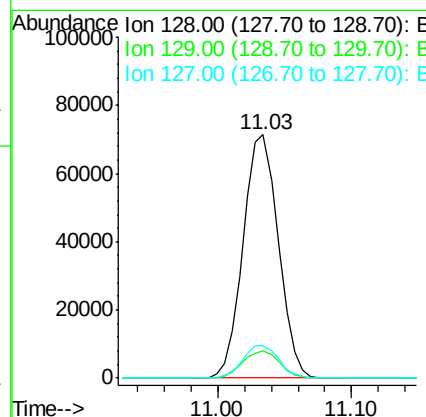
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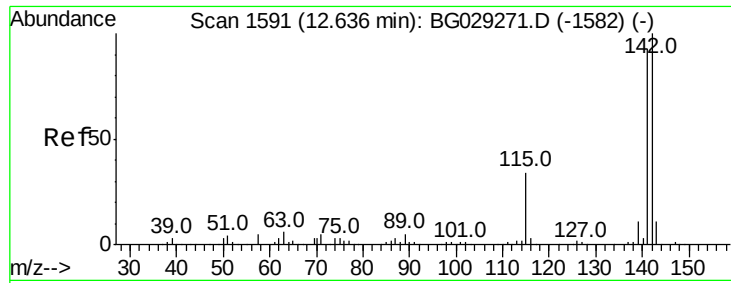
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#31  
Naphthalene  
Concen: 8.028 ng  
RT: 11.03 min Scan# 1318  
Delta R.T. -0.01 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 8.6   | 12.8  |
| 127     | 13.4  | 11.6  | 17.4  |





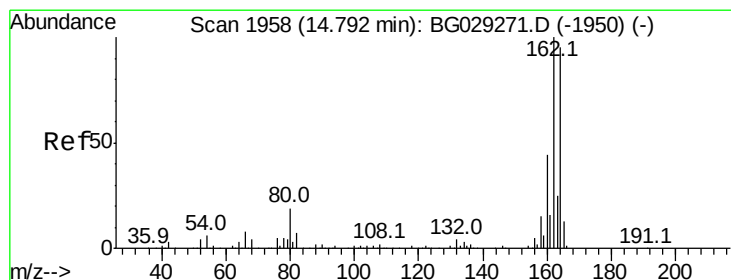
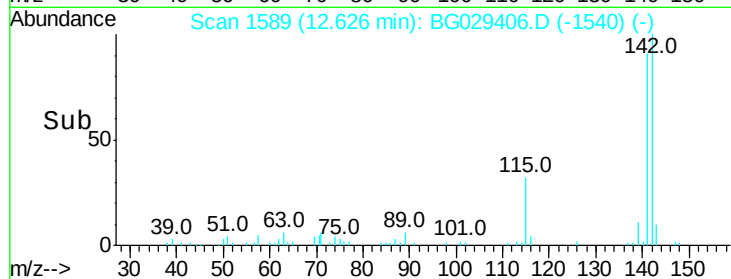
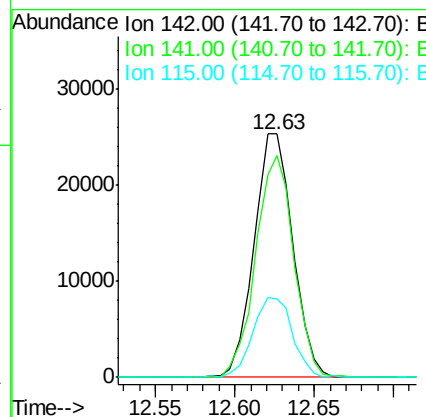
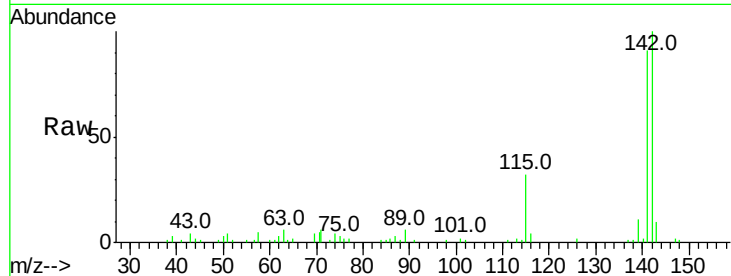
#37  
2-Methylnaphthalene  
Concen: 3.649 ng  
RT: 12.63 min Scan# 1589  
Delta R.T. -0.01 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

Instrument :  
BNA\_G  
ClientSampleId :  
S-1-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.9  | 67.1  | 100.7 |
| 115     | 32.3  | 30.7  | 46.1  |

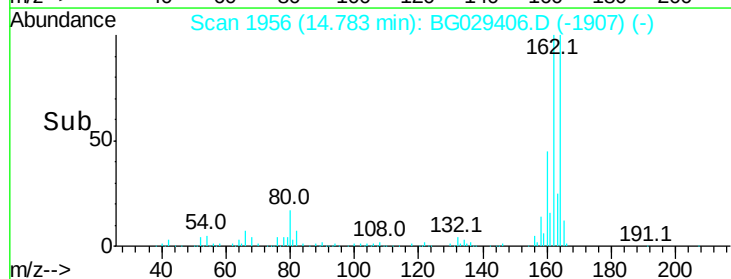
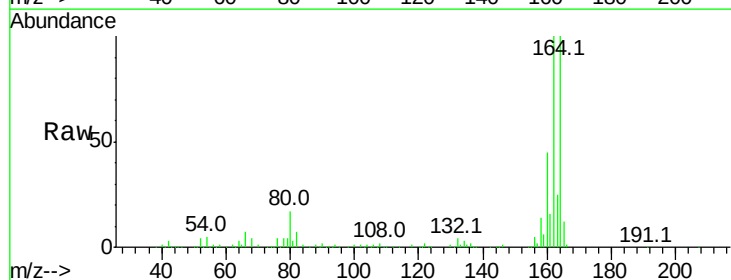
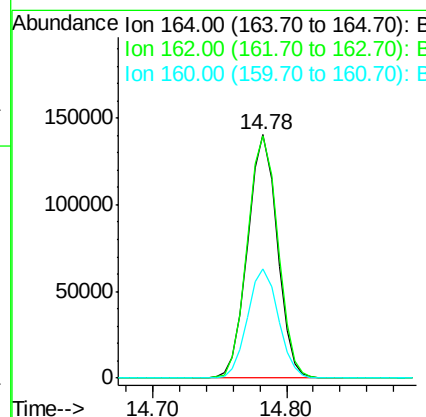
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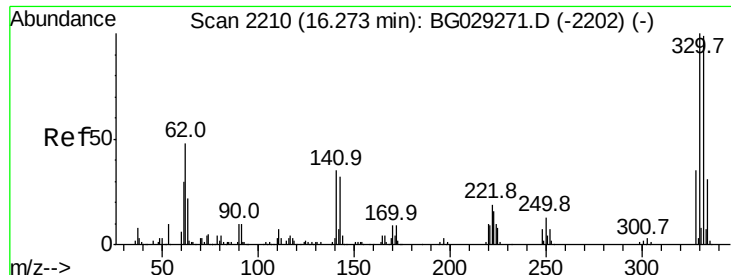
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.78 min Scan# 1956  
Delta R.T. -0.01 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.8  | 78.8  | 118.2 |
| 160     | 44.8  | 35.4  | 53.0  |





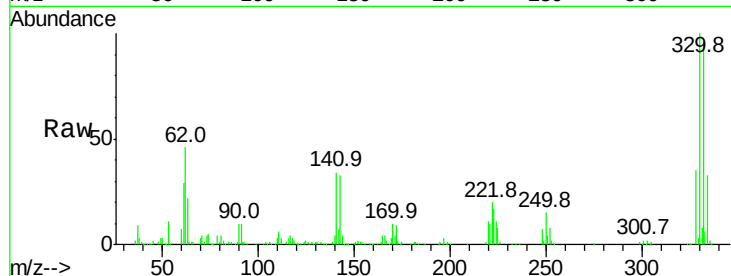
#41  
 2,4,6-Tribromophenol  
 Concen: 134.741 ng  
 RT: 16.26 min Scan# 2208  
 Delta R.T. -0.01 min  
 Lab File: BG029406.D  
 Acq: 23 Oct 2017 19:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S-1-A

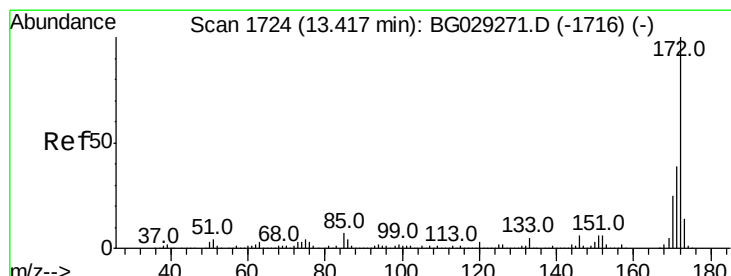
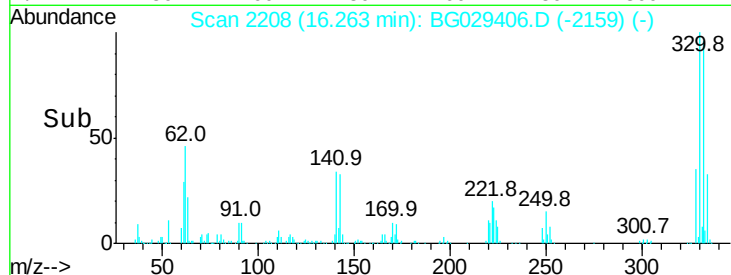
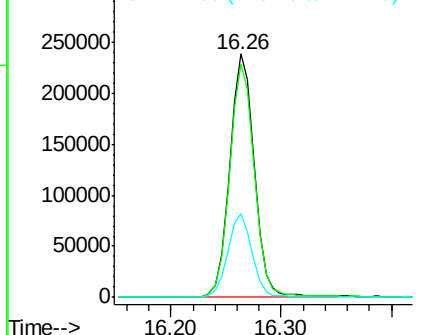
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 373176 |       |       |
| 332     | 96.3  | 77.0   | 115.6 |       |
| 141     | 34.1  | 25.2   | 37.8  |       |

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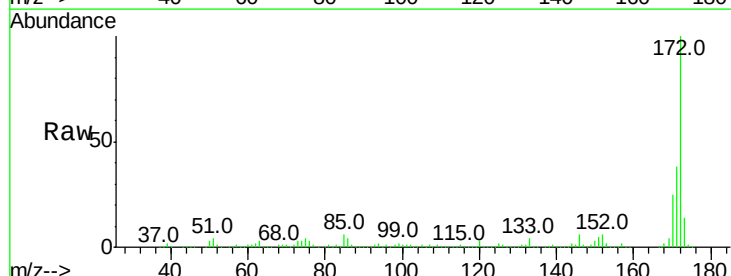


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

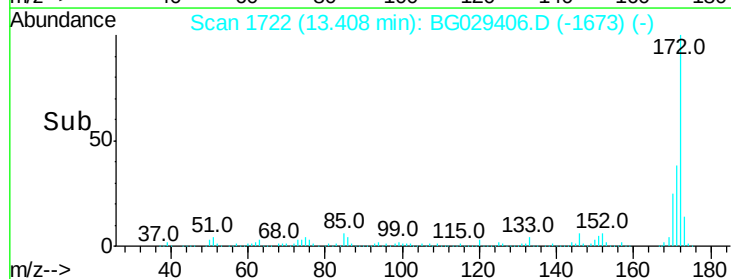
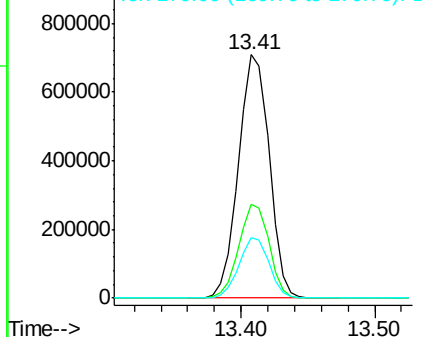


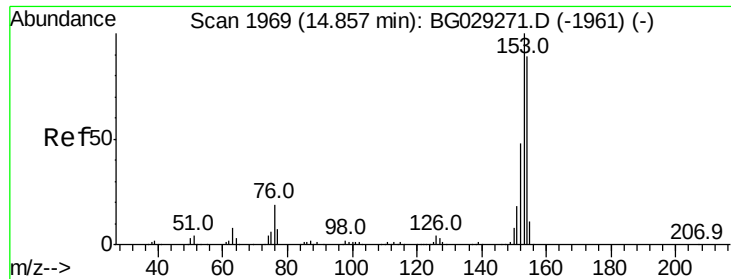
#44  
 2-Fluorobiphenyl  
 Concen: 77.179 ng  
 RT: 13.41 min Scan# 1722  
 Delta R.T. -0.01 min  
 Lab File: BG029406.D  
 Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1128827 |       |       |
| 171     | 38.4  | 30.0    | 45.0  |       |
| 170     | 25.0  | 19.5    | 29.3  |       |



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





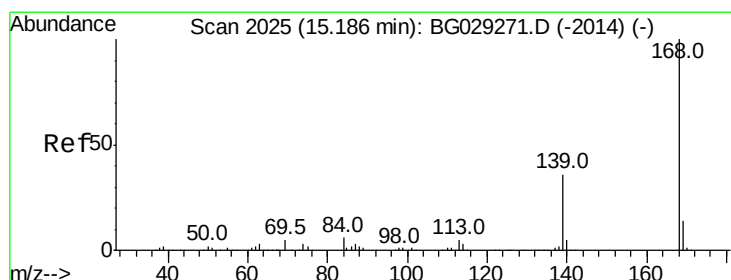
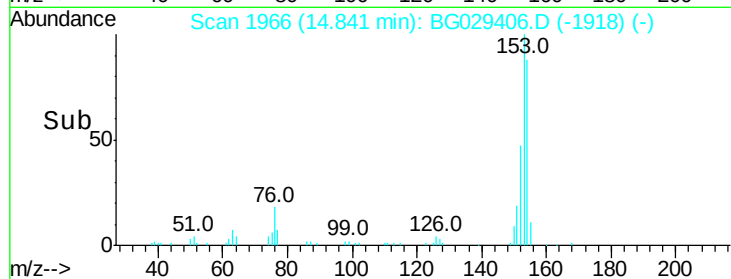
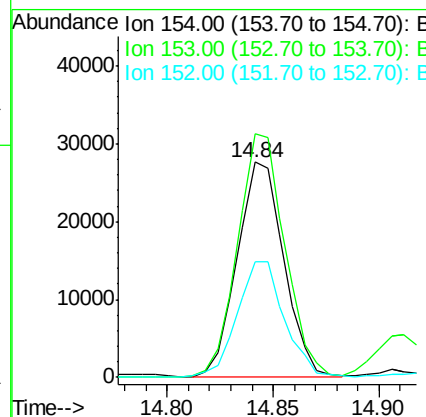
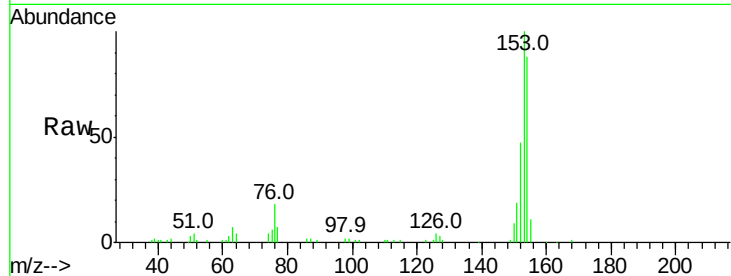
#51  
Acenaphthene  
Concen: 3.102 ng  
RT: 14.84 min Scan# 1966  
Delta R.T. -0.02 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

Instrument :  
BNA\_G  
ClientSampleId :  
S-1-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.2 | 90.4  | 135.6 |
| 152     | 53.6  | 41.6  | 62.4  |

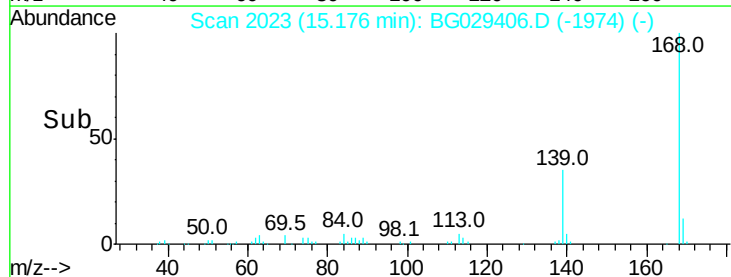
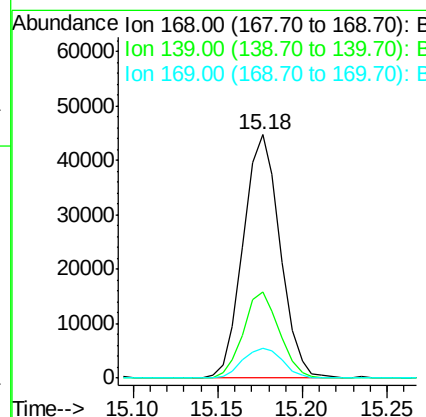
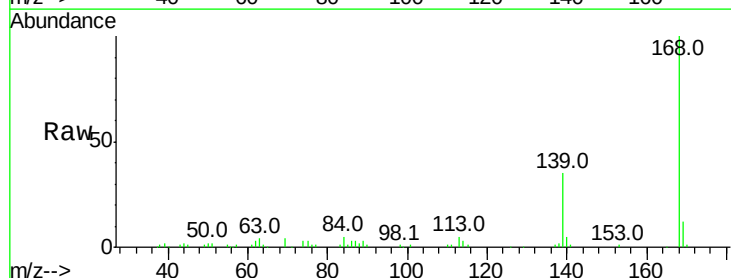
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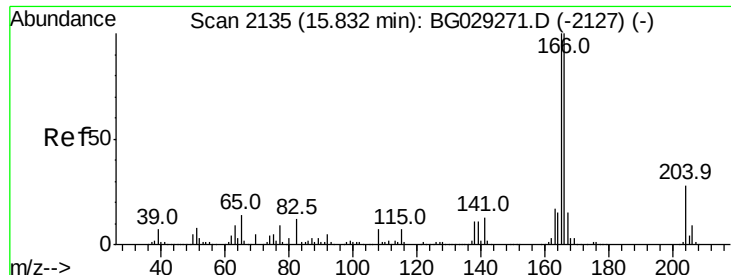


#54  
Dibenzofuran  
Concen: 3.487 ng  
RT: 15.18 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 35.3  | 28.6  | 43.0  |
| 169     | 12.5  | 11.2  | 16.8  |







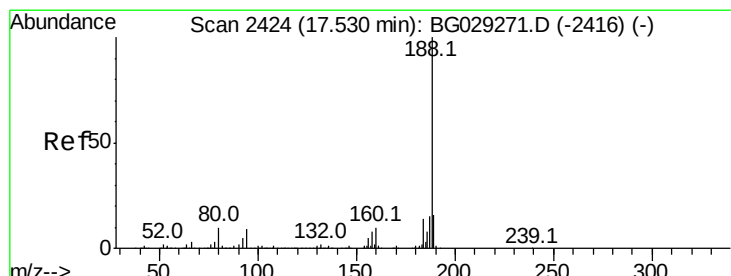
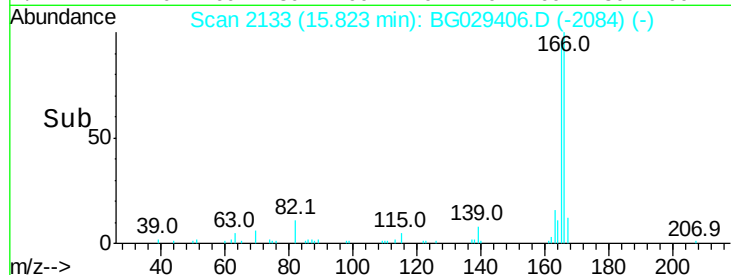
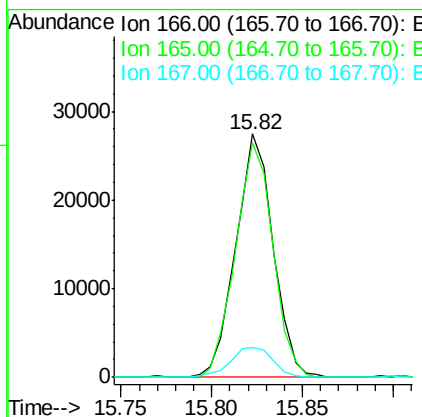
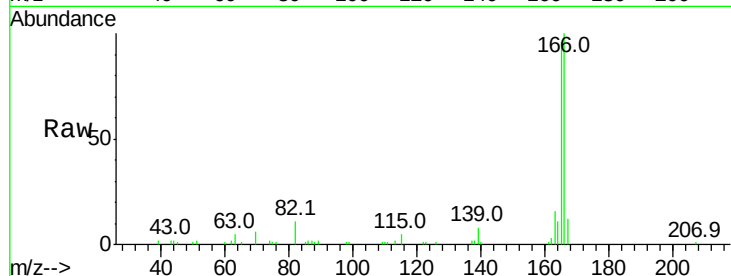
#57  
**Fluorene**  
 Concen: 2.436 ng  
 RT: 15.82 min Scan# 2133  
 Delta R.T. -0.01 min  
 Lab File: BG029406.D  
 Acq: 23 Oct 2017 19:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S-1-A

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   | 39347 |       |       |
| 165     | 96.3  | 80.6  | 121.0 |       |
| 167     | 12.3  | 10.4  | 15.6  |       |

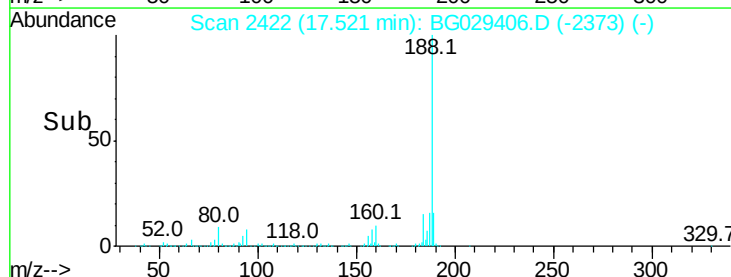
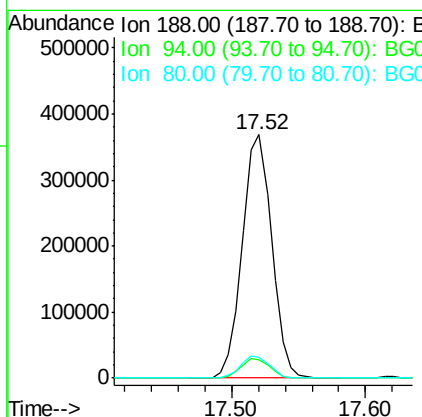
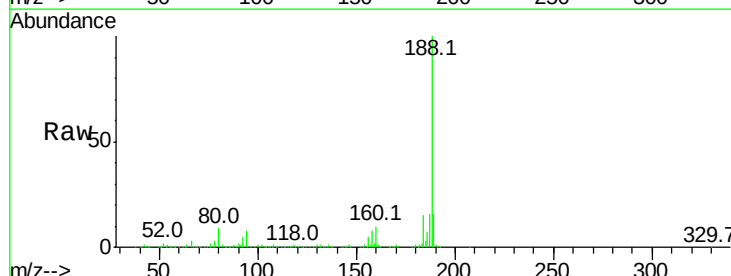
Manual Integrations  
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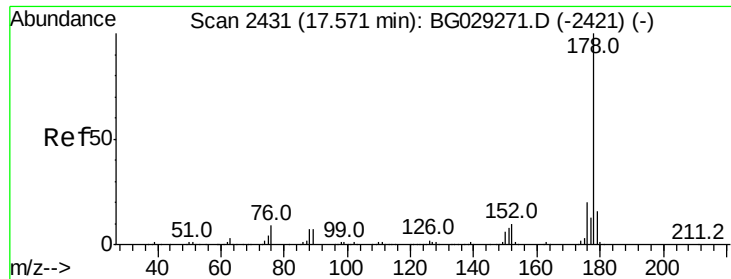
Sohil  
 10/24/2017 8:47:43 PM



#63  
**Phenanthrene-d10**  
 Concen: 20.000 ng  
 RT: 17.52 min Scan# 2422  
 Delta R.T. -0.01 min  
 Lab File: BG029406.D  
 Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 560979 |       |       |
| 94      | 7.6   | 6.9    | 10.3  |       |
| 80      | 8.6   | 7.7    | 11.5  |       |





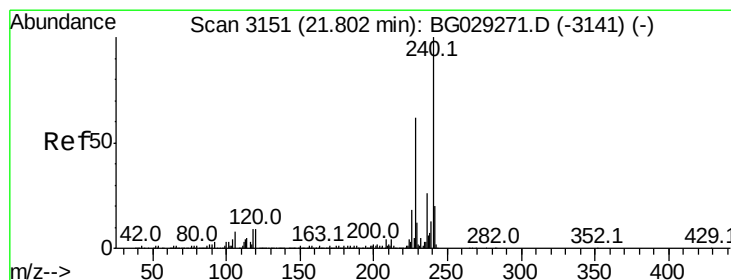
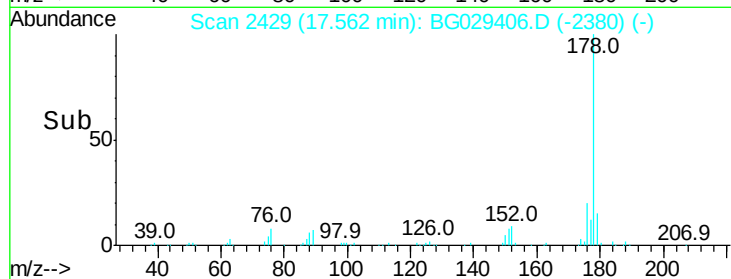
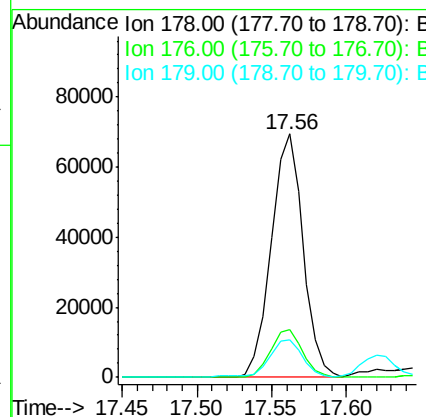
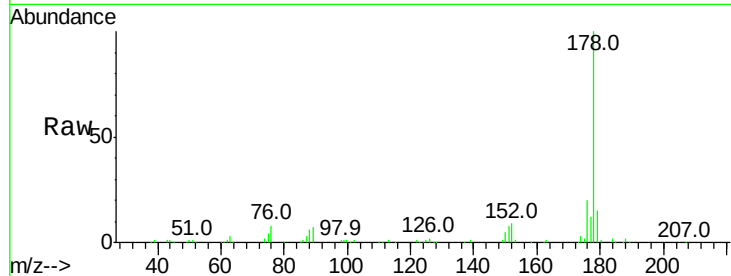
#70  
Phenanthrene  
Concen: 3.545 ng  
RT: 17.56 min Scan# 2429  
Delta R.T. -0.01 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

Instrument :  
BNA\_G  
ClientSampleId :  
S-1-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.7  | 23.5  |
| 179     | 15.5  | 12.5  | 18.7  |

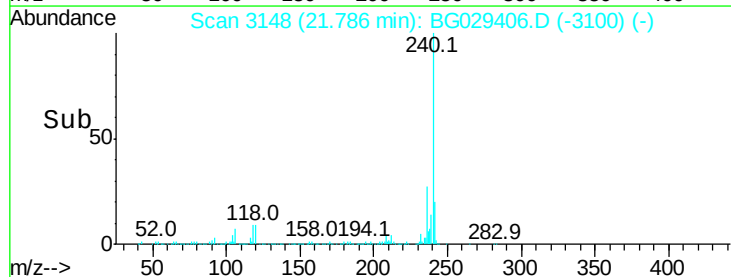
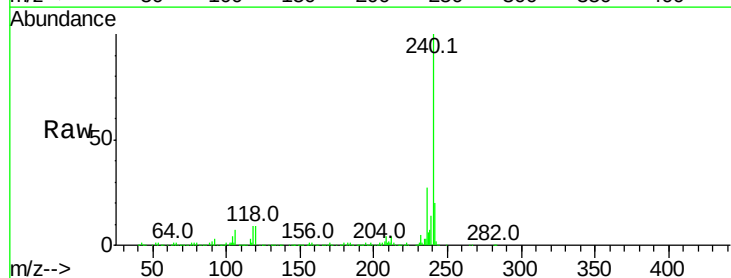
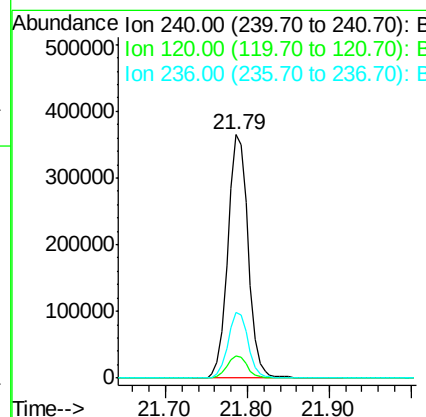
Manual Integrations  
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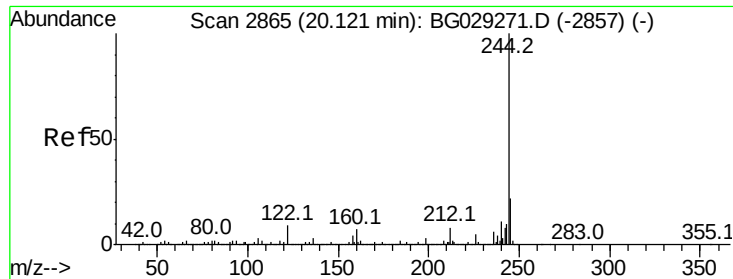
Sohil  
10/24/2017 8:47:43 PM



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.79 min Scan# 3148  
Delta R.T. -0.02 min  
Lab File: BG029406.D  
Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.2   | 6.8   | 10.2  |
| 236     | 26.8  | 20.9  | 31.3  |





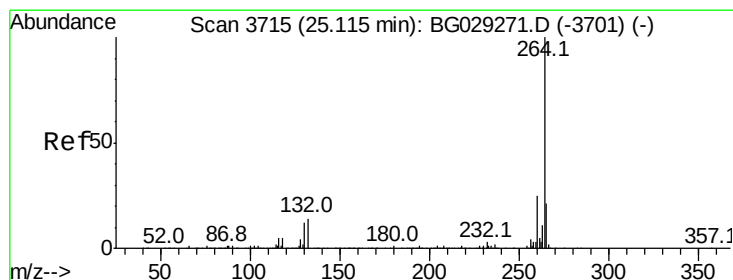
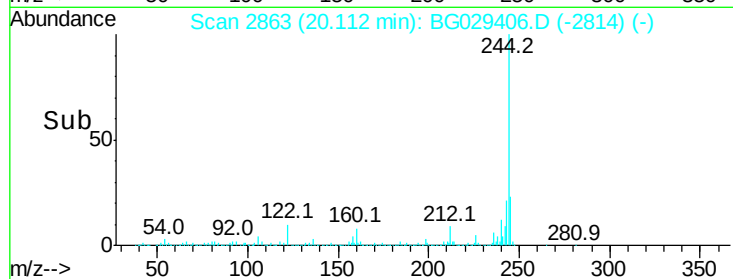
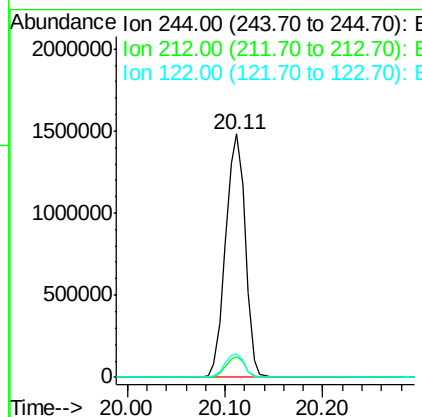
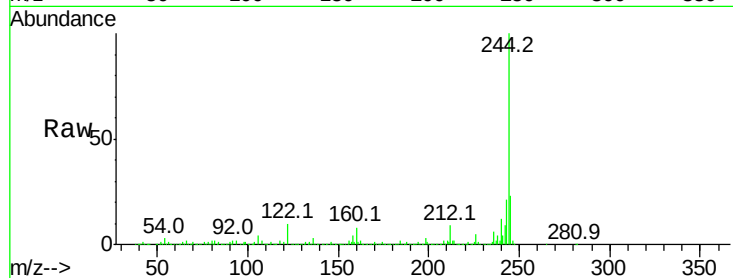
#78  
 Terphenyl-d14  
 Concen: 74.723 ng  
 RT: 20.11 min Scan# 2863  
 Delta R.T. -0.01 min  
 Lab File: BG029406.D  
 Acq: 23 Oct 2017 19:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 S-1-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.7   | 5.8   | 8.8   |
| 122     | 9.8   | 7.0   | 10.4  |

Manual Integrations  
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#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.09 min Scan# 3711  
 Delta R.T. -0.02 min  
 Lab File: BG029406.D  
 Acq: 23 Oct 2017 19:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 17.4  | 26.0  |
| 265     | 21.6  | 17.7  | 26.5  |

