

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG032218\  
 Data File : BG033294.D  
 Acq On : 22 Mar 2018 14:49  
 Operator : SJ/JU  
 Sample : J1976-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 031618-TIDO-F-U-B

Quant Time: Mar 22 17:57:24 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 22 17:32:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.90  | 152  | 40046    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.77 | 136  | 166970   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 15.51 | 164  | 130015   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 18.24 | 188  | 335480   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 22.59 | 240  | 339595   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 26.39 | 264  | 351865   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 6.31  | 112  | 118905   | 55.68  | ng    | 0.00     |
| 7) Phenol-d6                | 8.00  | 99   | 110855   | 30.21  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.09 | 82   | 388572   | 106.92 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.98 | 330  | 197316   | 101.47 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.14 | 172  | 944187   | 104.84 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.76 | 244  | 1587388  | 99.97  | ng    | 0.00     |

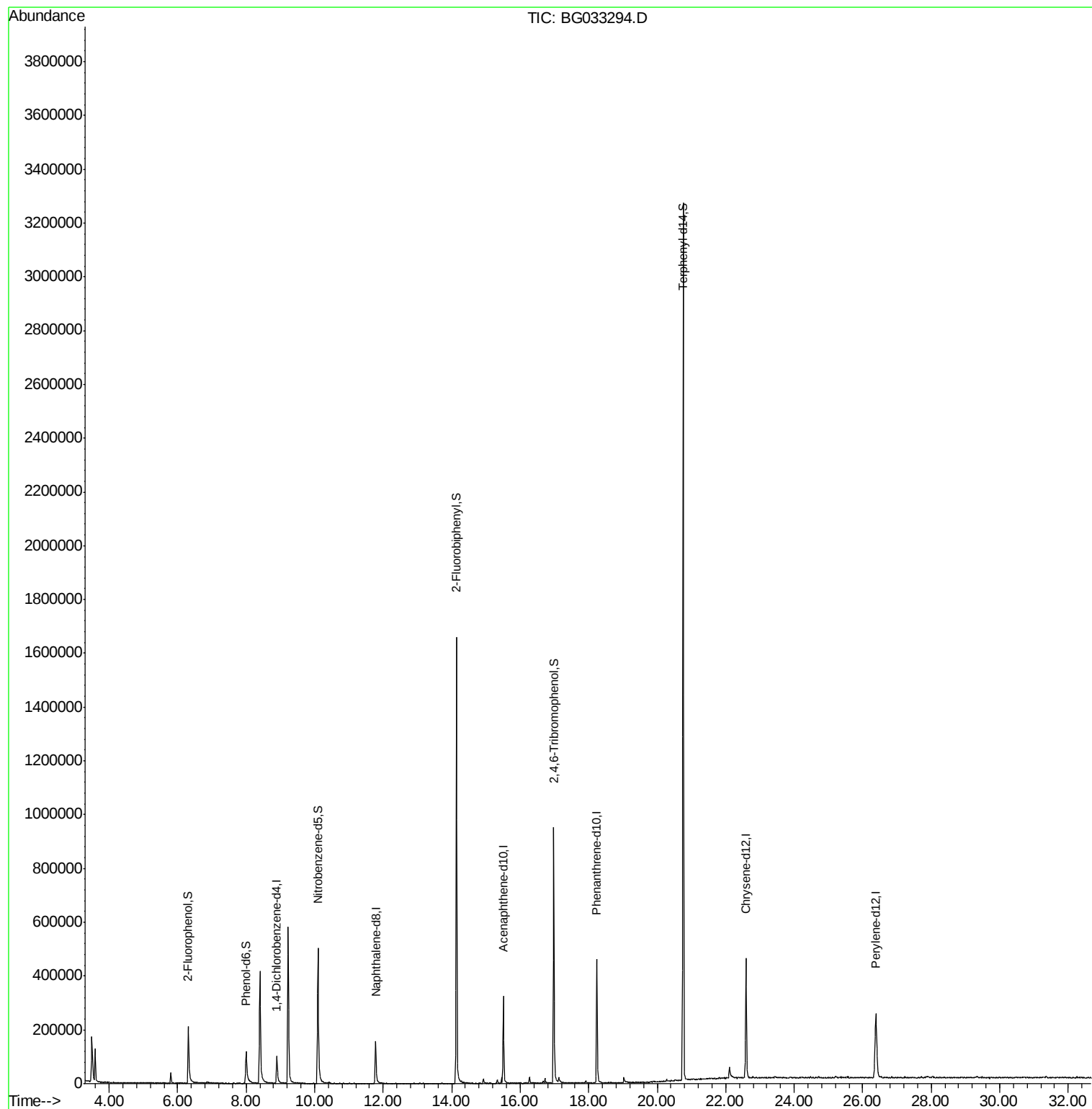
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG031918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 22 17:32:09 2018  
Response via : Initial Calibration



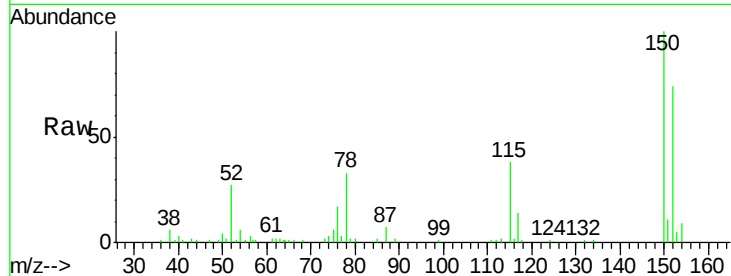


#1

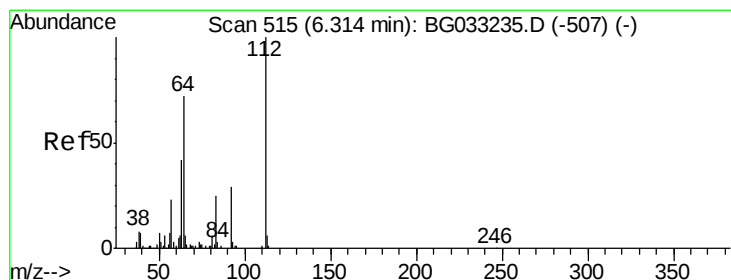
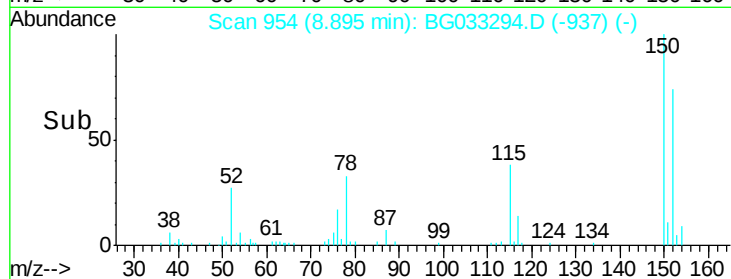
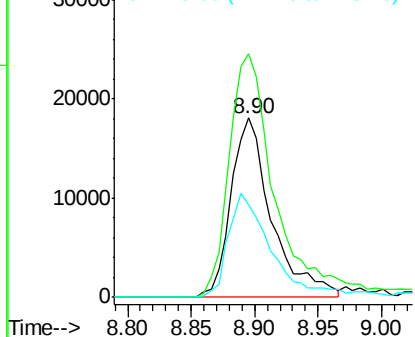
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.90 min Scan# 954  
Delta R.T. -0.00 min  
Lab File: BG033294.D  
Acq: 22 Mar 2018 14:49

Instrument :  
BNA\_G  
ClientSampleId :  
031618-TIDO-F-U-B

Tot Ion:152 Resp: 40046  
Ion Ratio Lower Upper  
152 100  
150 135.6 126.6 189.8  
115 51.3 53.0 79.4#



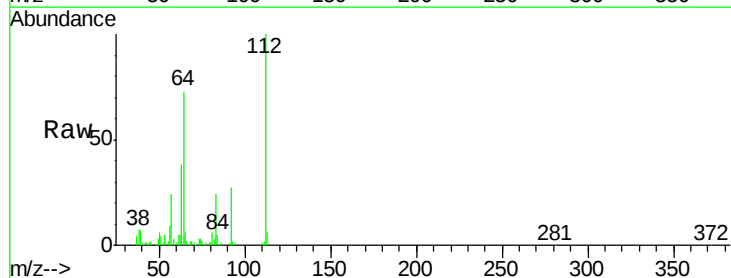
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



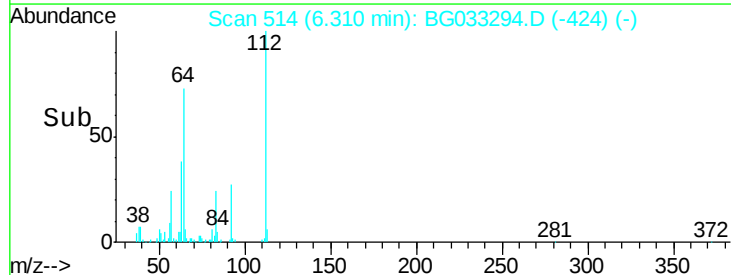
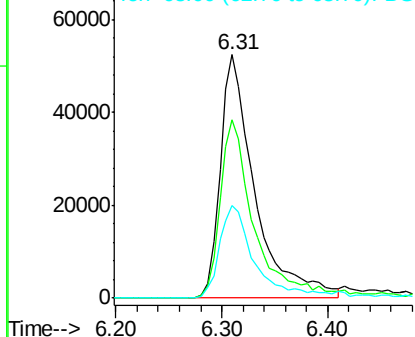
#5

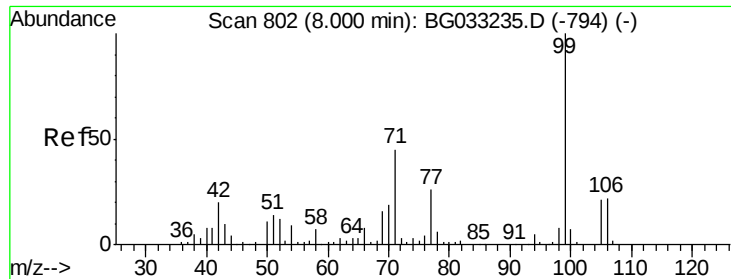
2-Fluorophenol  
Concen: 55.676 ng  
RT: 6.31 min Scan# 514  
Delta R.T. -0.00 min  
Lab File: BG033294.D  
Acq: 22 Mar 2018 14:49

Tgt Ion:112 Resp: 118905  
Ion Ratio Lower Upper  
112 100  
64 73.4 56.3 84.5  
63 37.8 30.1 45.1



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





#7

Phenol-d6

Concen: 30.210 ng

RT: 8.00 min Scan# 801

Delta R.T. -0.00 min

Lab File: BG033294.D

Acq: 22 Mar 2018 14:49

Instrument :

BNA\_G

ClientSampleId :

031618-TIDO-F-U-B

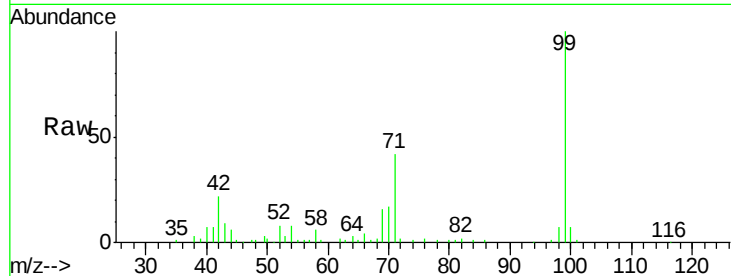
Tot Ion: 99 Resp: 110855

Ion Ratio Lower Upper

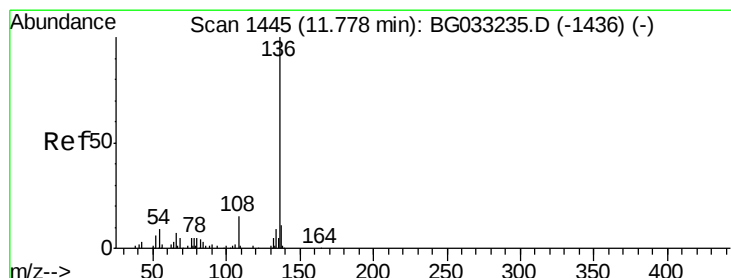
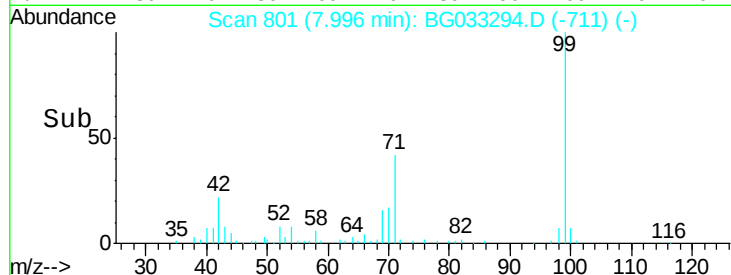
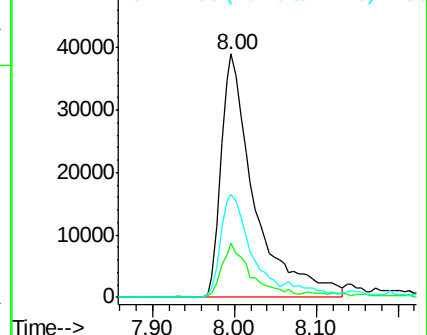
99 100

42 22.5 14.1 21.1#

71 42.4 26.1 39.1#



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.77 min Scan# 1444

Delta R.T. -0.01 min

Lab File: BG033294.D

Acq: 22 Mar 2018 14:49

Tgt Ion: 136 Resp: 166970

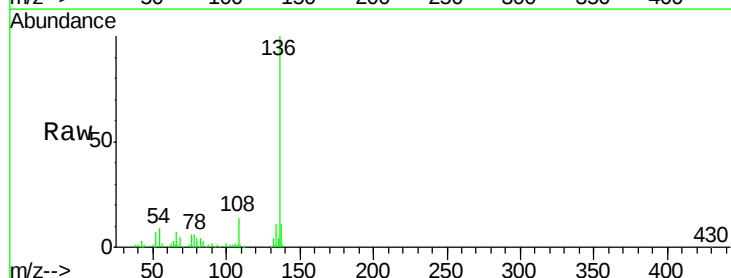
Ion Ratio Lower Upper

136 100

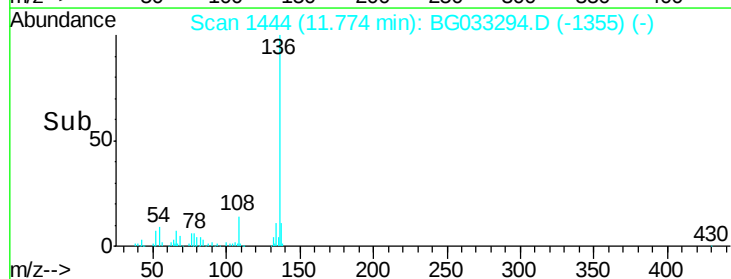
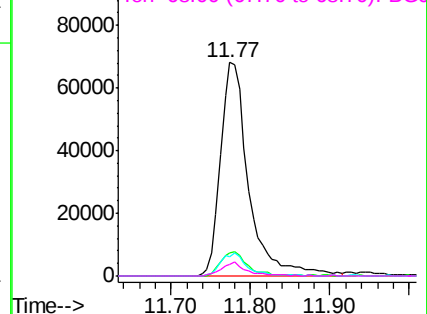
137 10.6 9.2 13.8

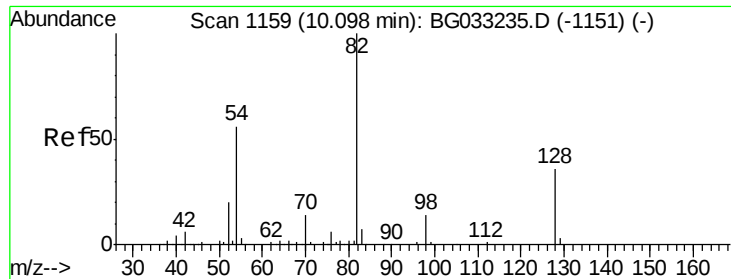
54 8.9 10.3 15.5#

68 5.2 4.5 6.7



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

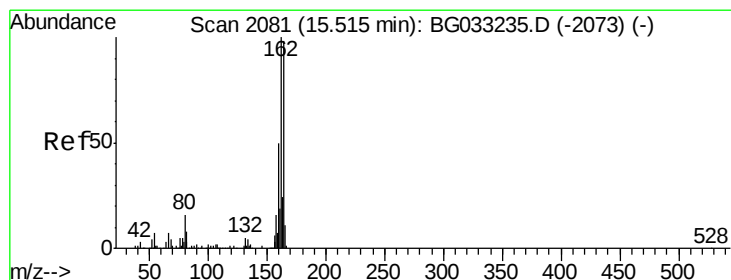
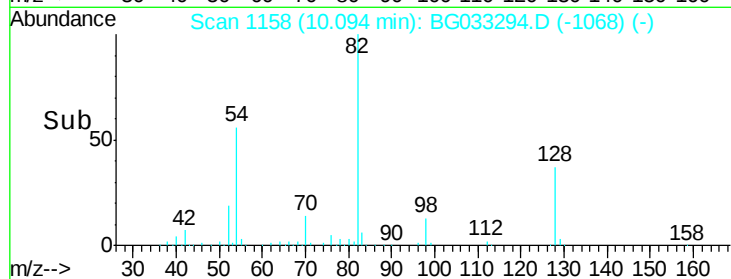
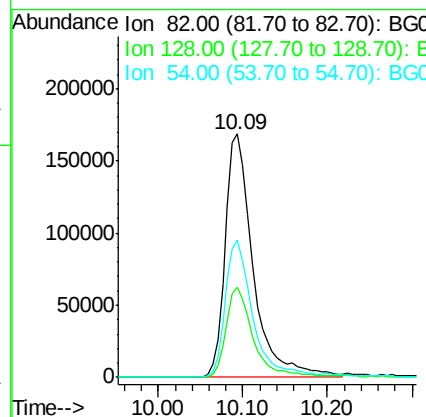
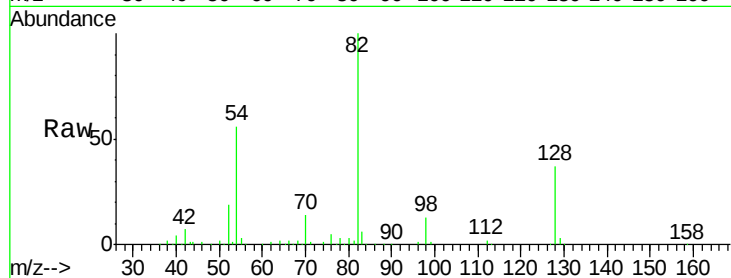




#23  
Nitrobenzene-d5  
Concen: 106.921 ng  
RT: 10.09 min Scan# 1158  
Delta R.T. -0.00 min  
Lab File: BG033294.D  
Acq: 22 Mar 2018 14:49

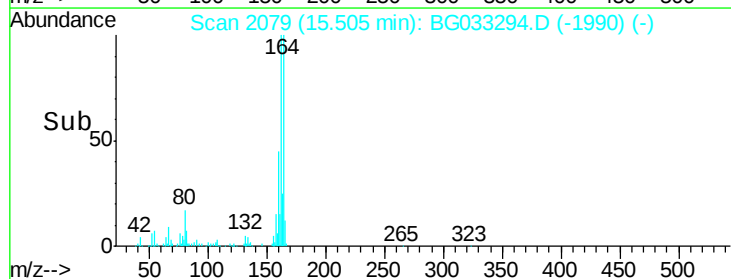
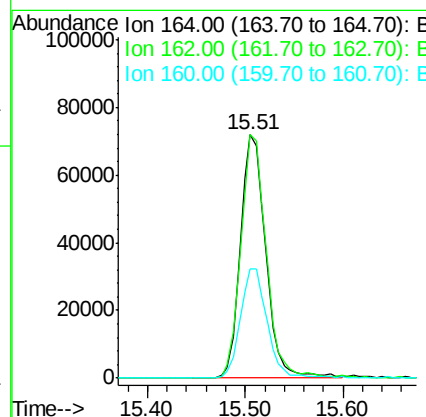
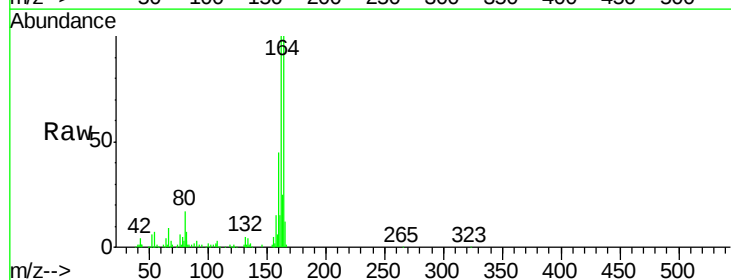
Instrument :  
BNA\_G  
ClientSampleId :  
031618-TIDO-F-U-B

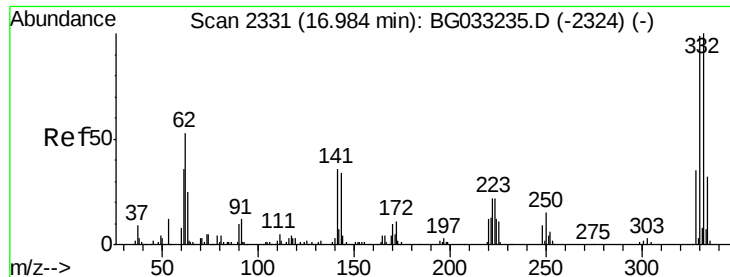
Tot Ion: 82 Resp: 388572  
Ion Ratio Lower Upper  
82 100  
128 37.1 29.7 44.5  
54 56.3 43.1 64.7



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.51 min Scan# 2079  
Delta R.T. -0.01 min  
Lab File: BG033294.D  
Acq: 22 Mar 2018 14:49

Tgt Ion:164 Resp: 130015  
Ion Ratio Lower Upper  
164 100  
162 99.8 78.8 118.2  
160 44.6 35.4 53.0

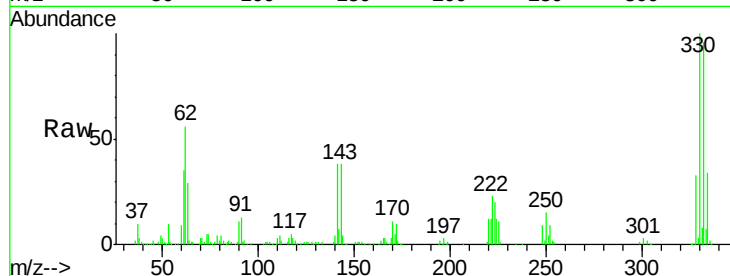




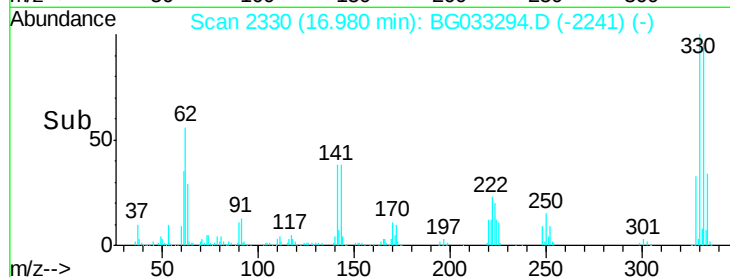
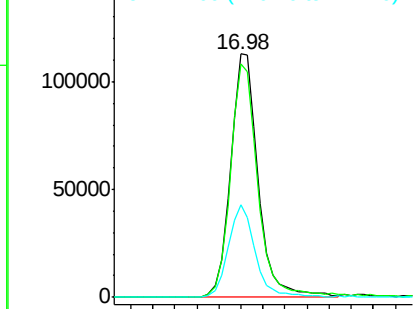
#41  
 2,4,6-Tribromophenol  
 Concen: 101.473 ng  
 RT: 16.98 min Scan# 2330  
 Delta R.T. -0.01 min  
 Lab File: BG033294.D  
 Acq: 22 Mar 2018 14:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 031618-TIDO-F-U-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.0  | 115.6 |
| 141     | 37.0  | 25.2  | 37.8  |

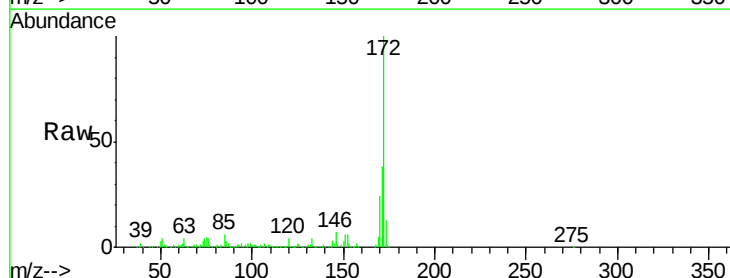


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

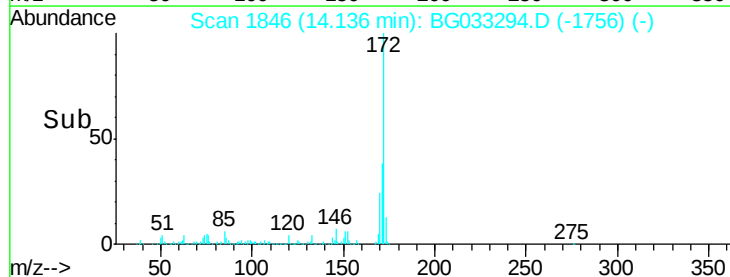
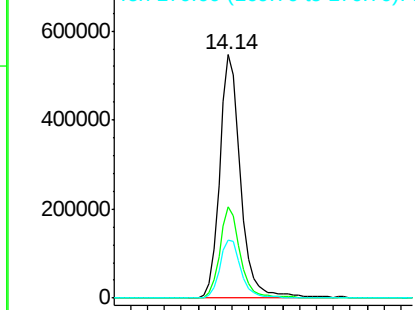


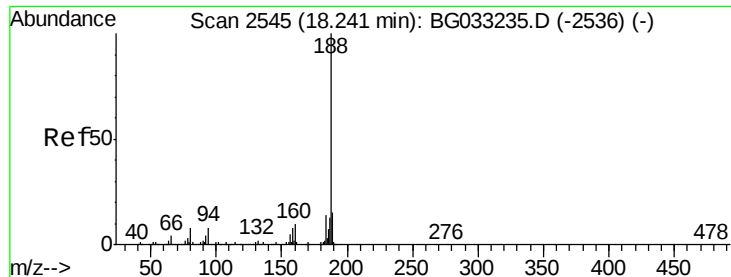
#44  
 2-Fluorobiphenyl  
 Concen: 104.839 ng  
 RT: 14.14 min Scan# 1846  
 Delta R.T. -0.00 min  
 Lab File: BG033294.D  
 Acq: 22 Mar 2018 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 30.0  | 45.0  |
| 170     | 24.0  | 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

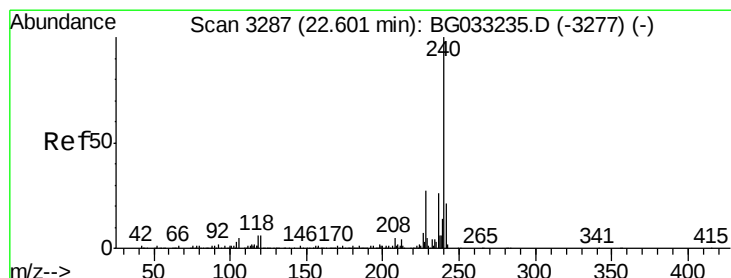
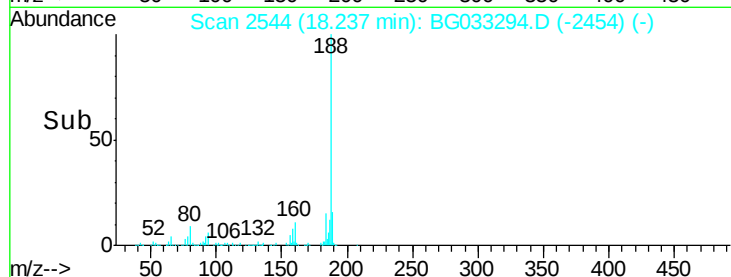
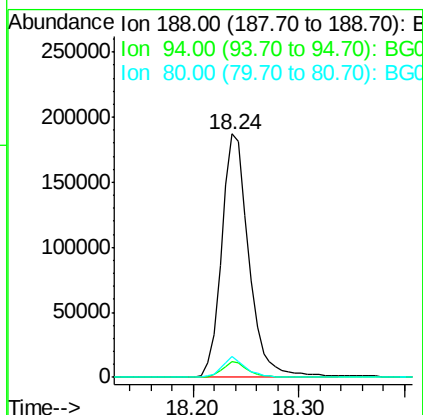
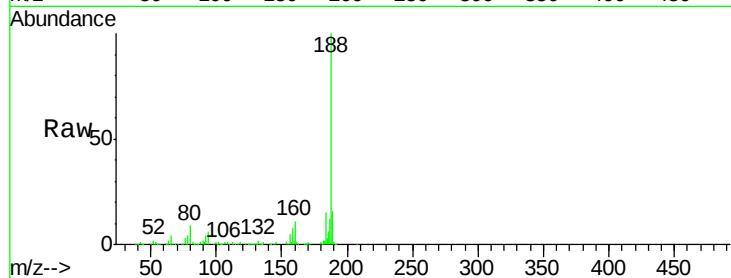




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.24 min Scan# 2544  
Delta R.T. -0.00 min  
Lab File: BG033294.D  
Acq: 22 Mar 2018 14:49

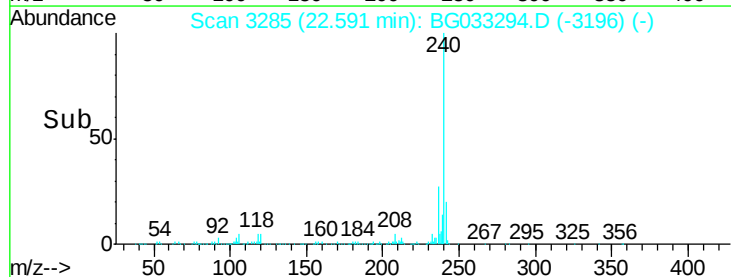
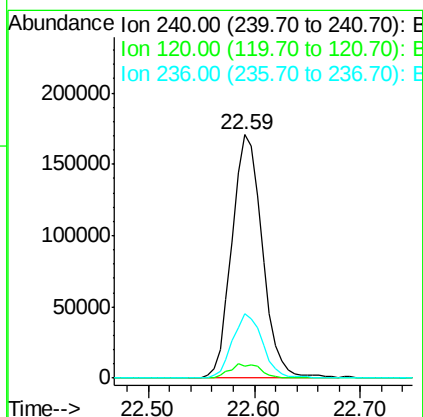
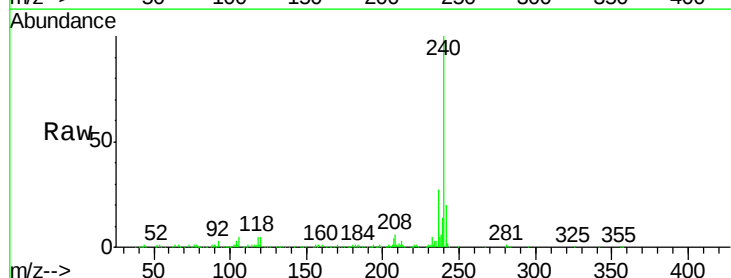
Instrument :  
BNA\_G  
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031618-TIDO-F-U-B

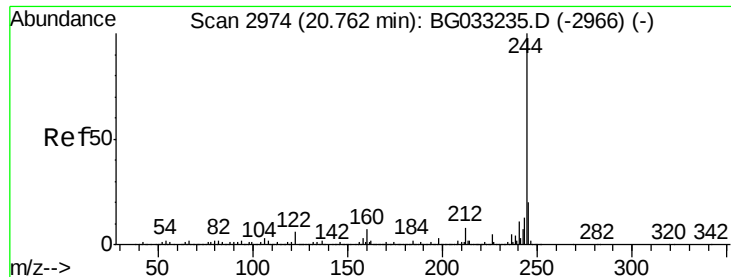
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.3   | 6.9   | 10.3# |
| 80      | 8.6   | 7.7   | 11.5  |



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.59 min Scan# 3285  
Delta R.T. -0.01 min  
Lab File: BG033294.D  
Acq: 22 Mar 2018 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 5.0   | 6.8   | 10.2# |
| 236     | 26.5  | 20.9  | 31.3  |





#78

Terphenyl-d14

Concen: 99.966 ng

RT: 20.76 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BG033294.D

Acq: 22 Mar 2018 14:49

Instrument :

BNA\_G

ClientSampleId :

031618-TIDO-F-U-B

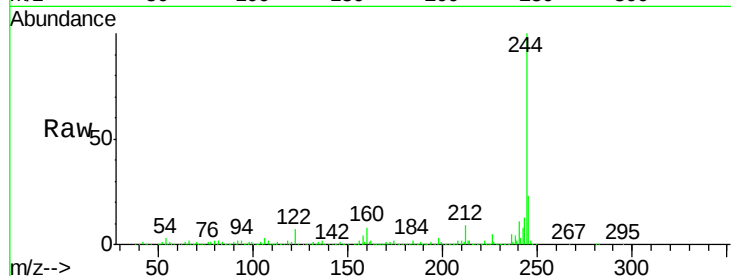
Tot Ion:244 Resp: 1587388

Ion Ratio Lower Upper

244 100

212 8.7 5.8 8.8

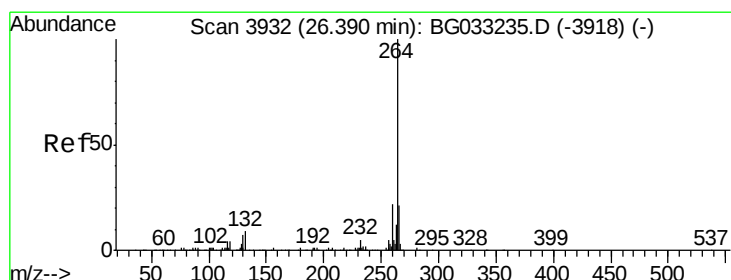
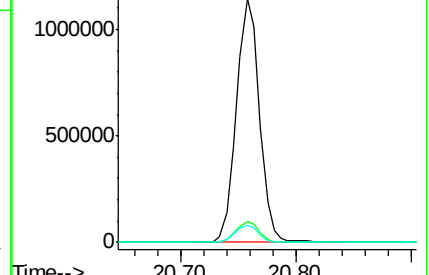
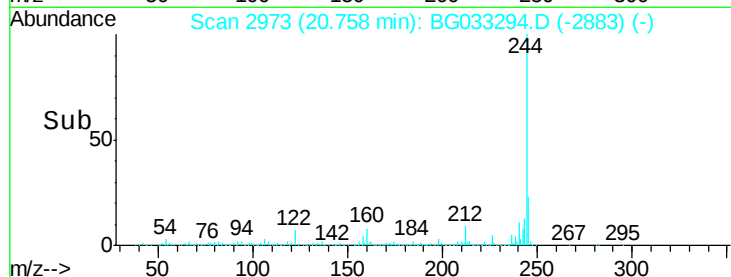
122 7.0 7.0 10.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.39 min Scan# 3931

Delta R.T. -0.00 min

Lab File: BG033294.D

Acq: 22 Mar 2018 14:49

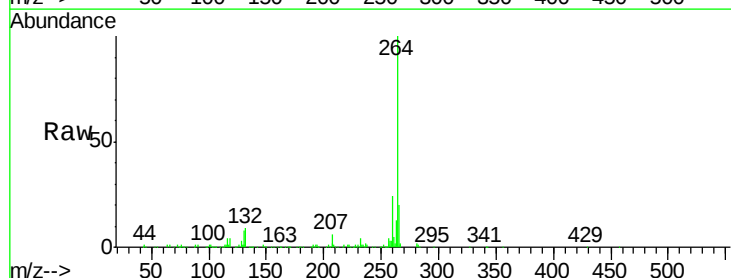
Tgt Ion:264 Resp: 351865

Ion Ratio Lower Upper

264 100

260 23.6 17.4 26.0

265 20.2 17.7 26.5



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

