

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\  
 Data File : BF094829.D  
 Acq On : 3 May 2017 11:32  
 Operator : SJ/MA  
 Sample : I2921-12 5X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

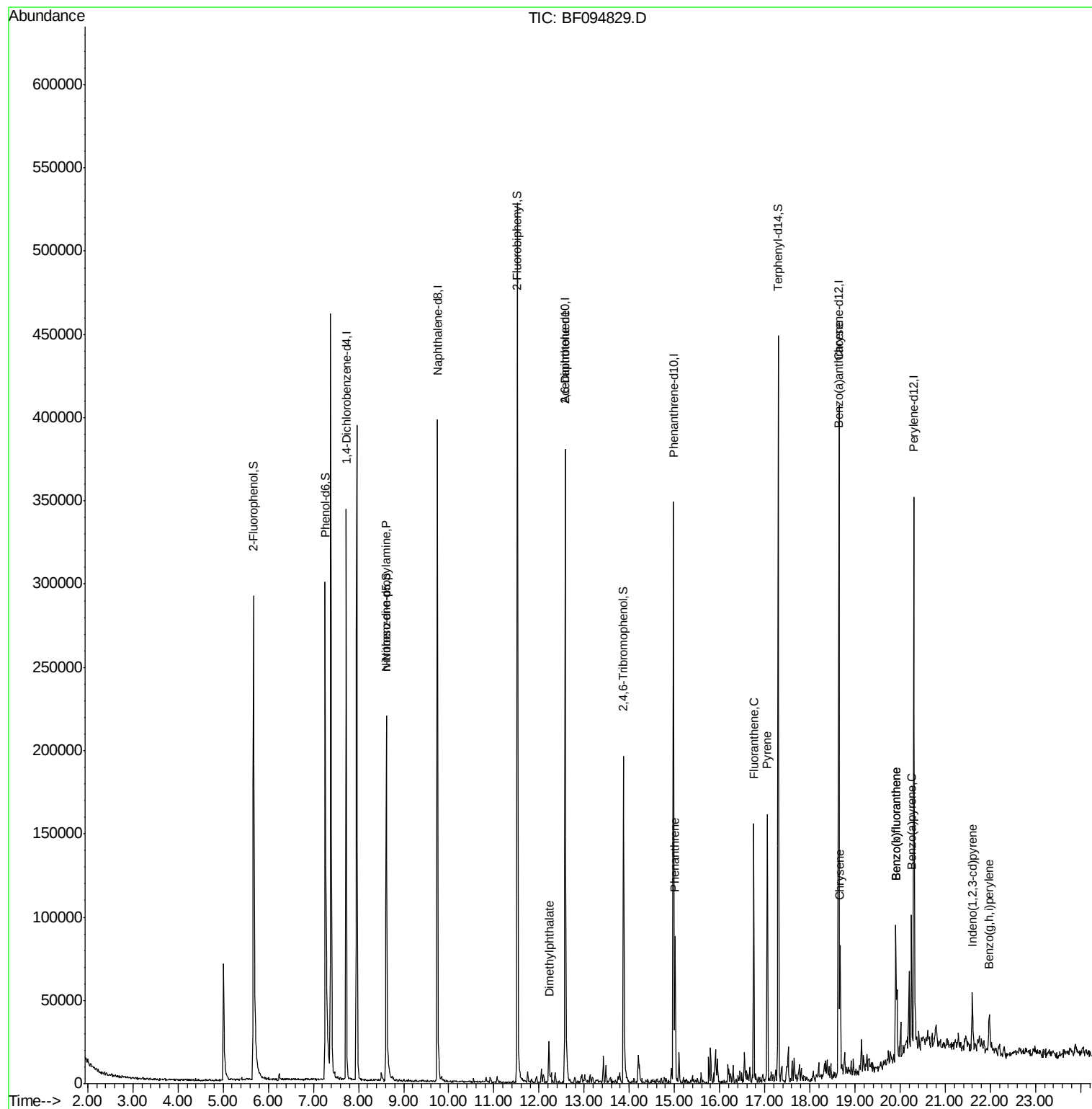
Quant Time: May 03 12:06:32 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 02 17:18:57 2017  
 Response via : Initial Calibration

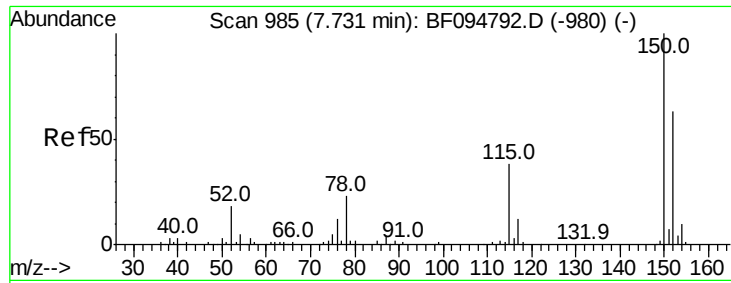
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.72  | 152  | 68374    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 9.75  | 136  | 269085   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 12.58 | 164  | 113454   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 14.98 | 188  | 173543   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 18.64 | 240  | 153019   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 20.31 | 264  | 129981   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.67  | 112  | 169383   | 41.30 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.26  | 99   | 211633   | 43.01 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 8.62  | 82   | 121381   | 28.44 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 13.87 | 330  | 34648    | 37.29 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 11.52 | 172  | 235224   | 29.84 | ng    | -0.01    |
| 78) Terphenyl-d14              | 17.30 | 244  | 150790   | 21.70 | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 8.62  | 70   | 15264    | 4.59  | ng    | # 73     |
| 49) Dimethylphthalate          | 12.22 | 163  | 18727    | 2.01  | ng    | 97       |
| 50) 2,6-Dinitrotoluene         | 12.58 | 165  | 11571    | 6.09  | ng    | # 31     |
| 70) Phenanthrene               | 15.01 | 178  | 49083    | 4.92  | ng    | 97       |
| 74) Fluoranthene               | 16.75 | 202  | 71819    | 7.02  | ng    | 98       |
| 77) Pyrene                     | 17.06 | 202  | 73683    | 6.44  | ng    | 98       |
| 80) Benzo(a)anthracene         | 18.63 | 228  | 33680    | 3.78  | ng    | 94       |
| 82) Chrysene                   | 18.67 | 228  | 35190    | 4.09  | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.60 | 276  | 19035    | 2.72  | ng    | 96       |
| 87) Benzo(b)fluoranthene       | 19.90 | 252  | 59790    | 7.44  | ng    | 99       |
| 88) Benzo(k)fluoranthene       | 19.90 | 252  | 59790    | 7.72  | ng    | 96       |
| 89) Benzo(a)pyrene             | 20.25 | 252  | 33703    | 4.55  | ng    | # 95     |
| 91) Benzo(a,h,i)perylene       | 21.98 | 276  | 16813    | 2.80  | ng    | 98       |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 02 17:18:57 2017  
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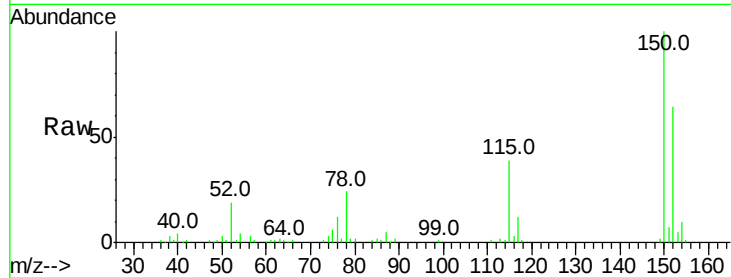




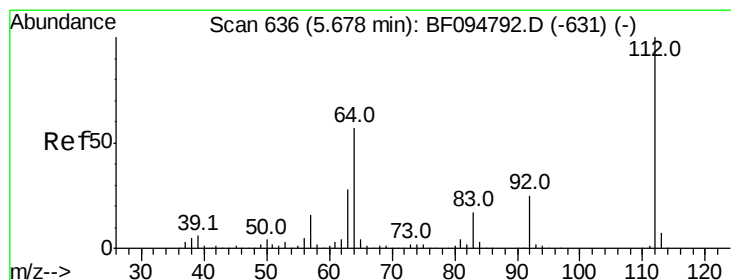
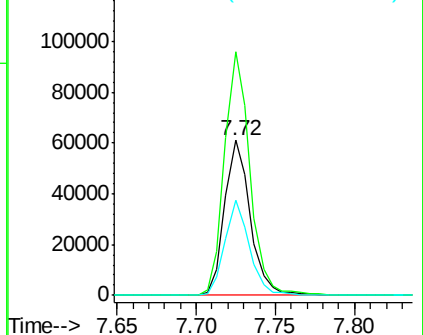
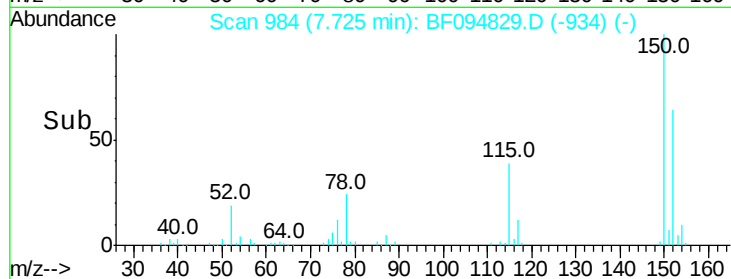
#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.72 min Scan# 984  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tot Ion:152 Resp: 68374  
Ion Ratio Lower Upper  
152 100  
150 157.2 126.2 189.2  
115 61.7 52.2 78.2



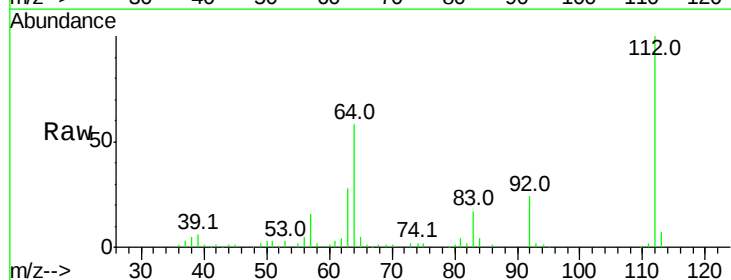
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



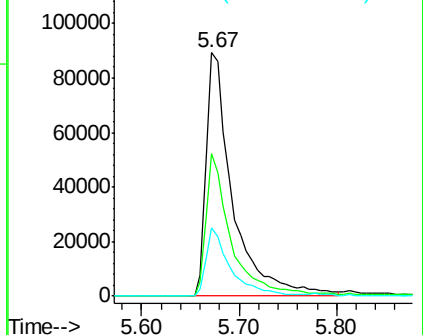
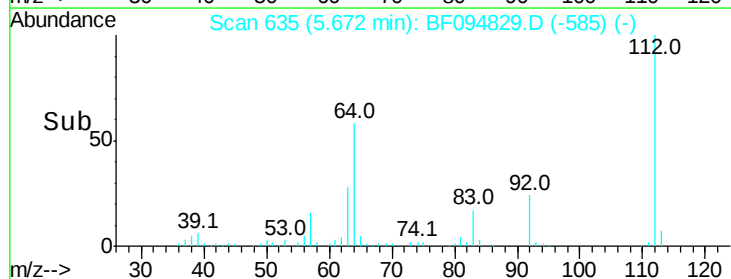
#5

2-Fluorophenol  
Concen: 41.30 ng  
RT: 5.67 min Scan# 635  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tgt Ion:112 Resp: 169383  
Ion Ratio Lower Upper  
112 100  
64 58.5 46.0 69.0  
63 28.0 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 43.01 ng

RT: 7.26 min Scan# 905

Delta R.T. -0.02 min

Lab File: BF094829.D

Acq: 3 May 2017 11:32

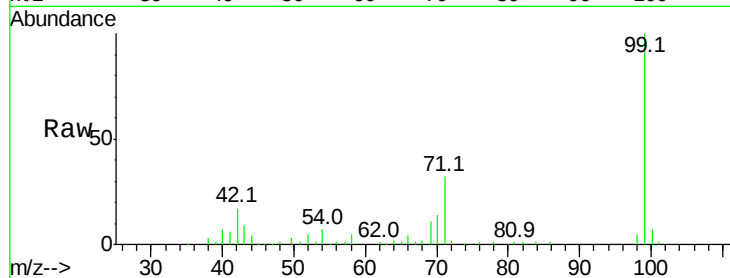
Tot Ion: 99 Resp: 211633

Ion Ratio Lower Upper

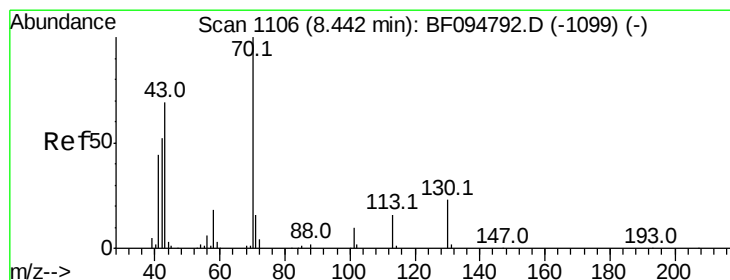
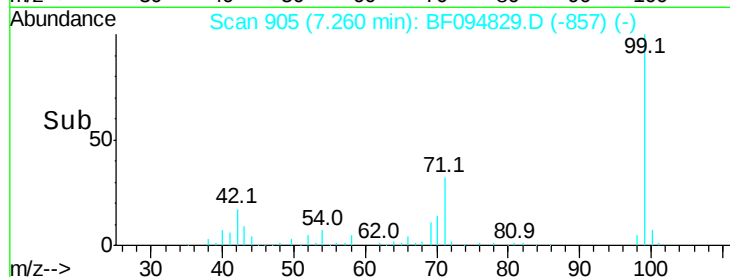
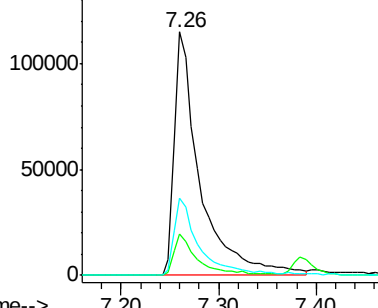
99 100

42 16.8 13.5 20.3

71 31.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 4.59 ng

RT: 8.62 min Scan# 1136

Delta R.T. 0.18 min

Lab File: BF094829.D

Acq: 3 May 2017 11:32

Tgt Ion: 70 Resp: 15264

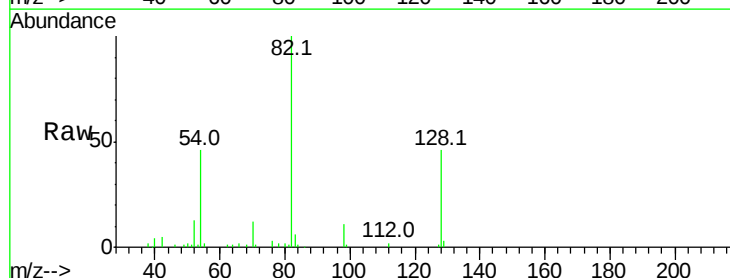
Ion Ratio Lower Upper

70 100

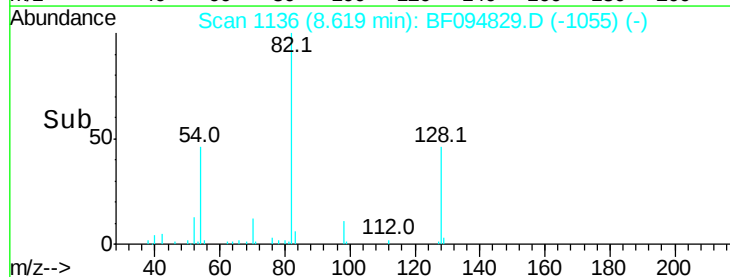
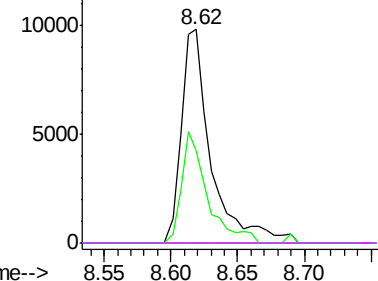
42 43.2 47.2 70.8#

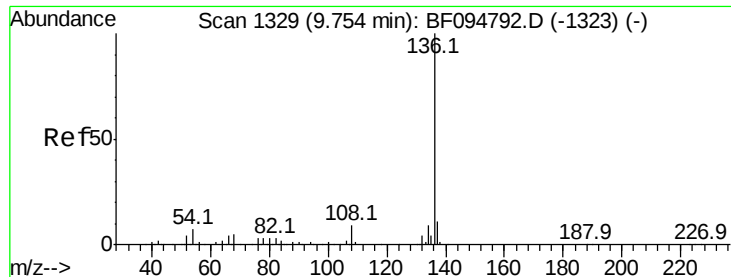
101 0.0 7.2 10.8#

130 0.0 15.9 23.9#



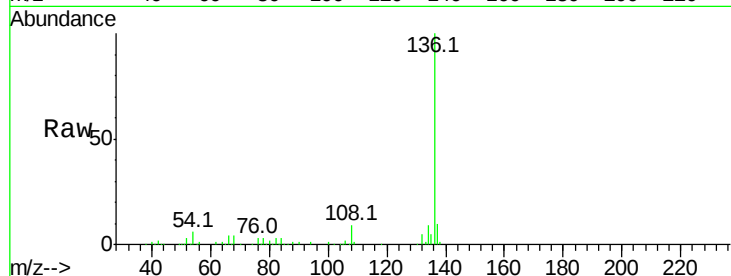
Abundance Ion 70.00 (69.70 to 70.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 101.00 (100.70 to 101.70): BF0  
Ion 130.00 (129.70 to 130.70): BF0



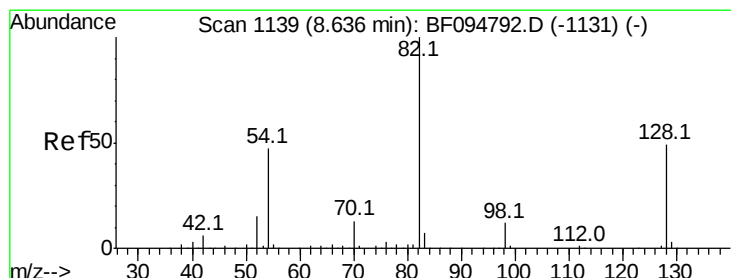
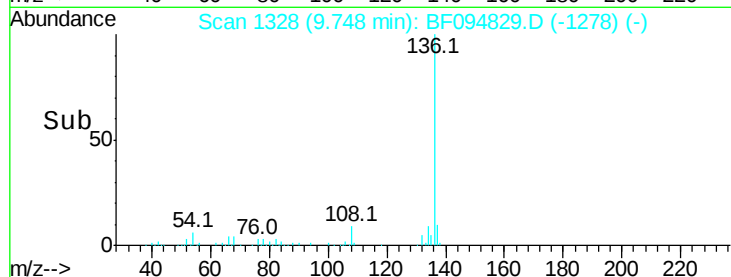
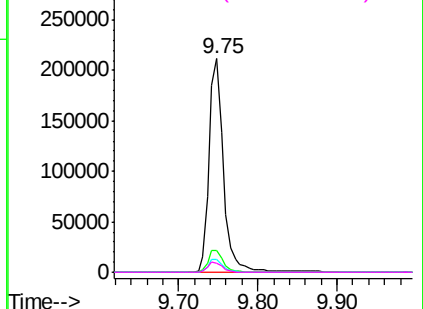


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.75 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 269085 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.5    | 8.5 12.7     |
| 54 6.2      | 4.9 7.3      |
| 68 4.5      | 4.1 6.1      |

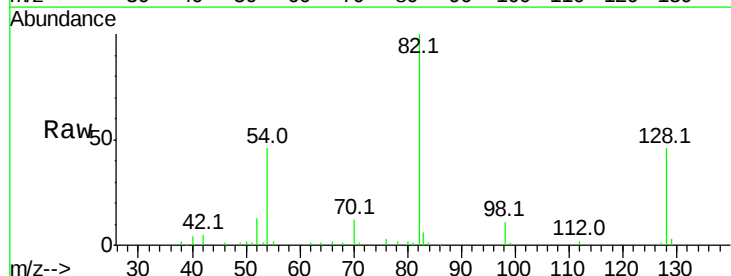


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

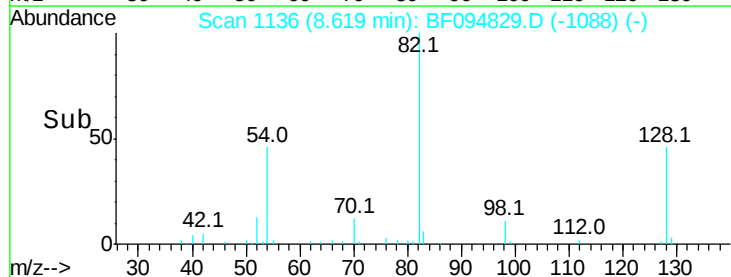
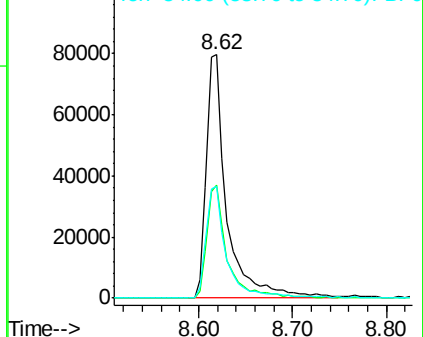


#23  
Nitrobenzene-d5  
Concen: 28.44 ng  
RT: 8.62 min Scan# 1136  
Delta R.T. -0.02 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 121381 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 46.4    | 34.0 51.0    |
| 54 45.9     | 42.2 63.2    |



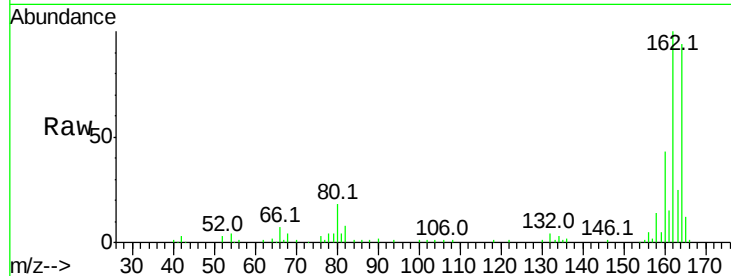
Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0



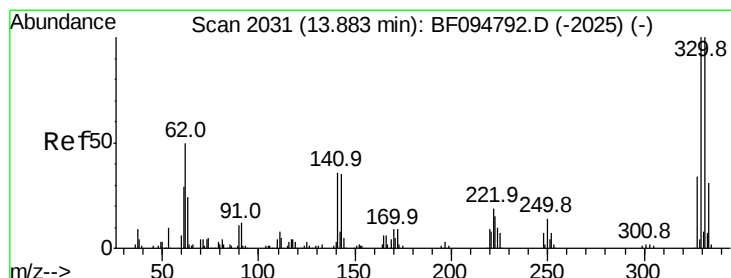
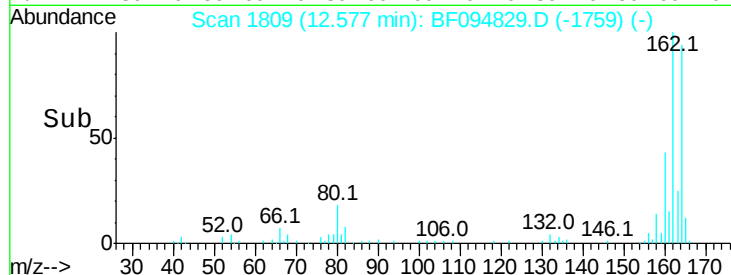
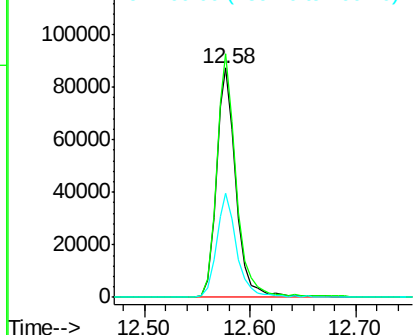


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.58 min Scan# 1809  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.2 | 82.6  | 123.8 |
| 160     | 45.2  | 36.2  | 54.2  |

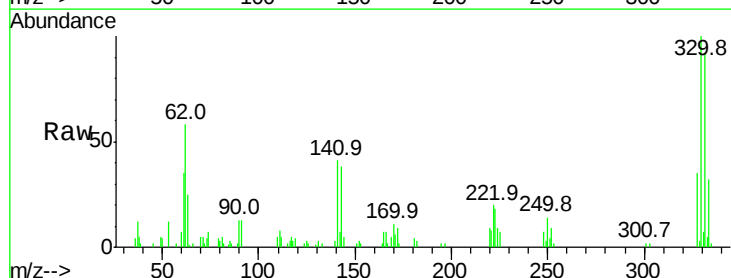


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

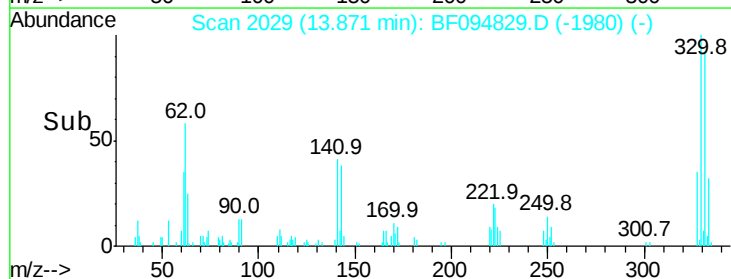
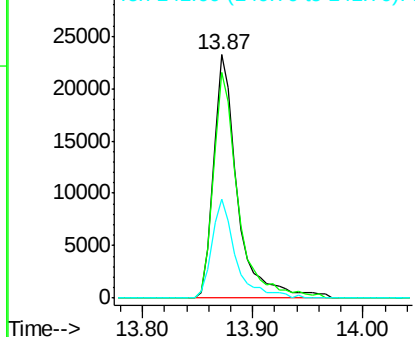


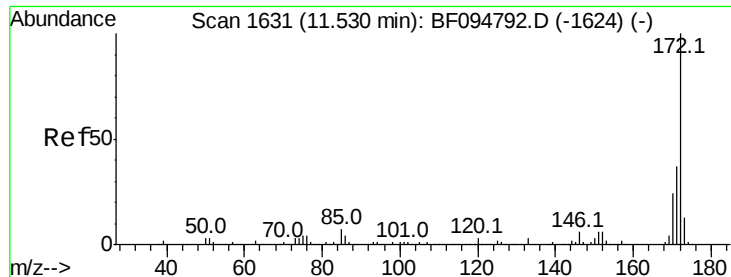
#41  
 2,4,6-Tribromophenol  
 Concen: 37.29 ng  
 RT: 13.87 min Scan# 2029  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.2  | 76.6  | 115.0 |
| 141     | 40.5  | 31.4  | 47.2  |



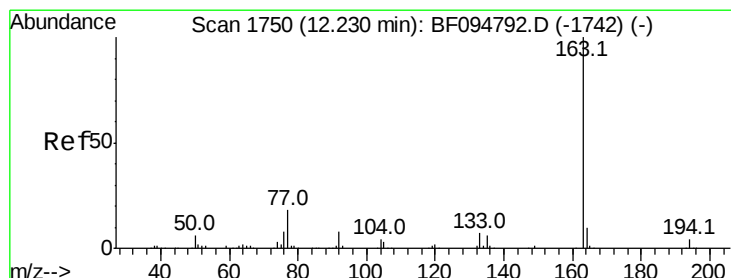
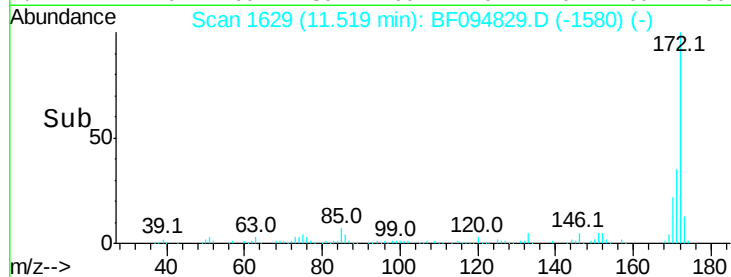
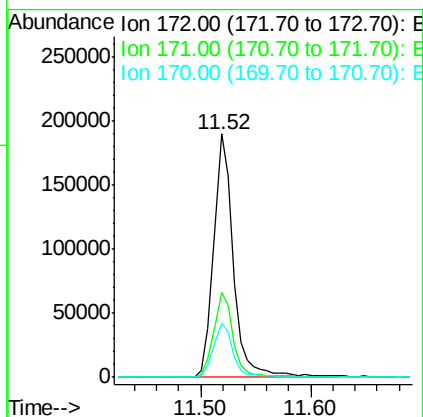
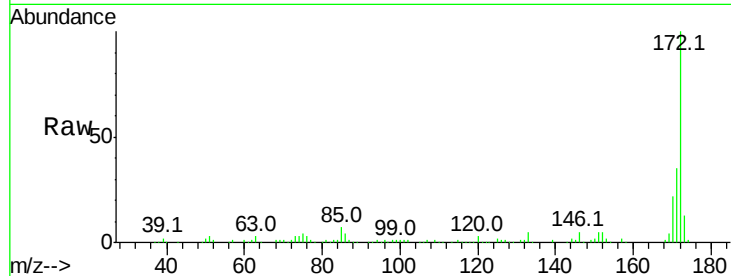
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E





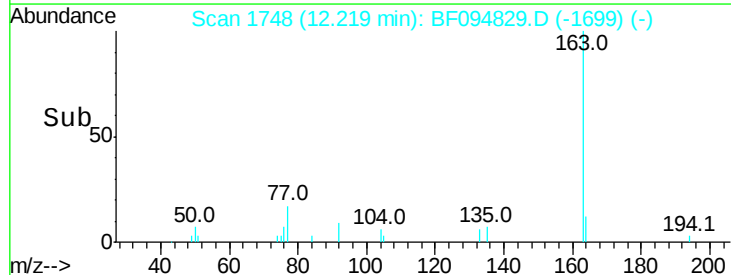
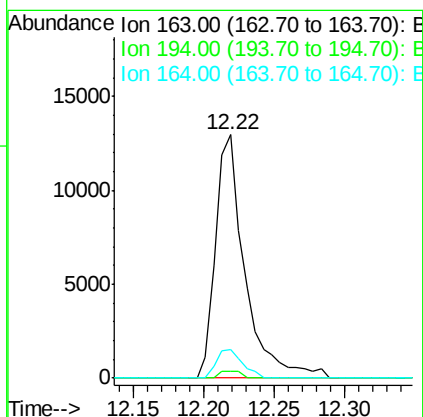
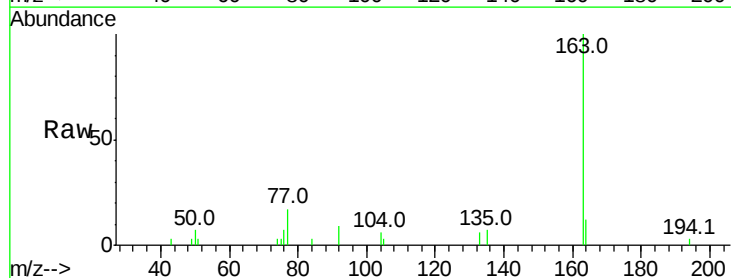
#44  
 2-Fluorobiphenyl  
 Concen: 29.84 ng  
 RT: 11.52 min Scan# 1629  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

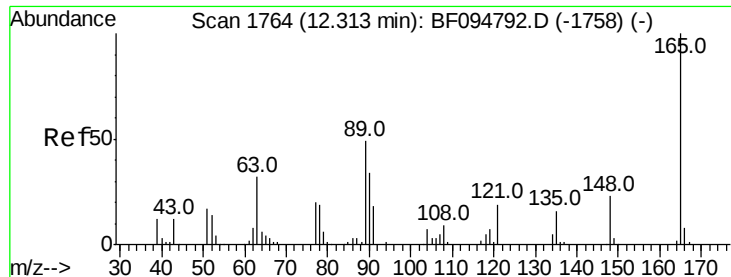
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 172   | Resp: | 235224 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 34.9  | 29.6  | 44.4   |
| 170      | 22.4  | 19.8  | 29.8   |



#49  
 Dimethylphthalate  
 Concen: 2.01 ng  
 RT: 12.22 min Scan# 1748  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

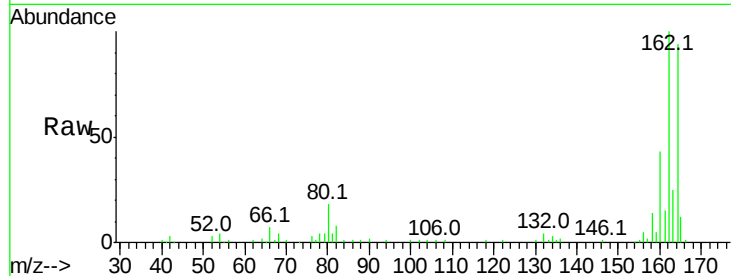
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 18727 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 2.9   | 2.6   | 4.0   |
| 164      | 12.0  | 8.4   | 12.6  |





#50  
 2,6-Dinitrotoluene  
 Concen: 6.09 ng  
 RT: 12.58 min Scan# 1809  
 Delta R.T. 0.26 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

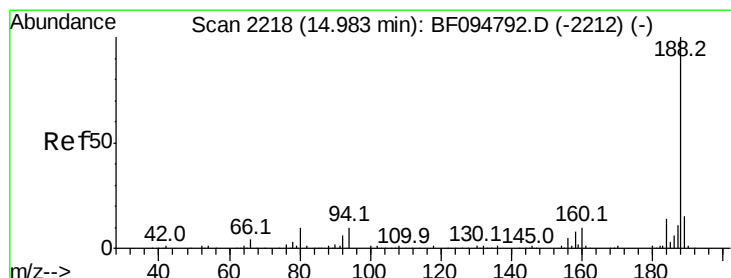
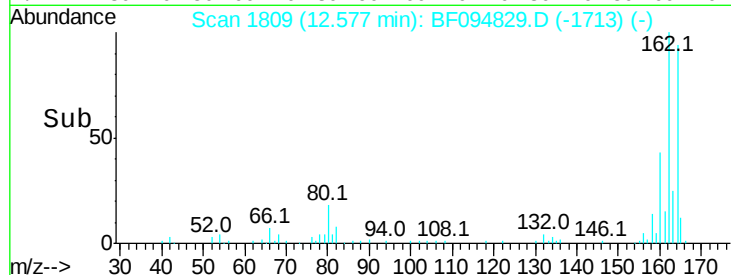
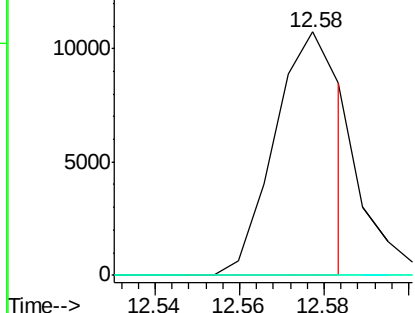
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

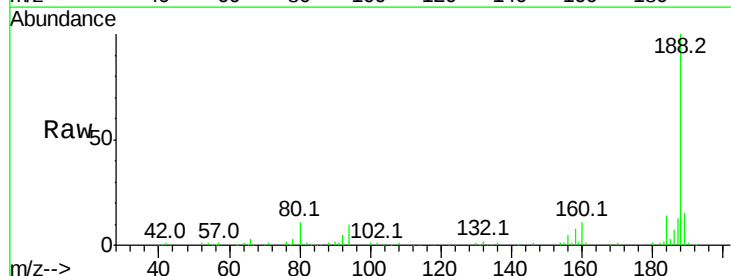
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.98 min Scan# 2217  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

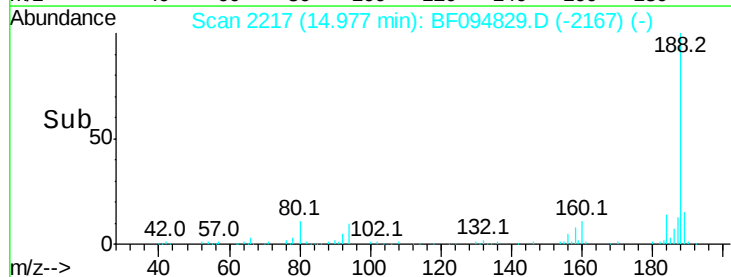
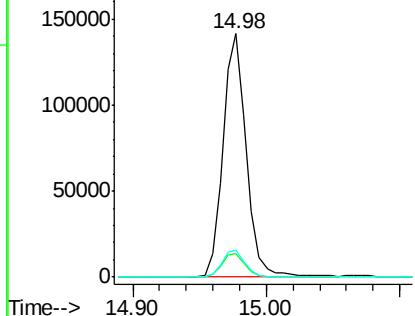
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.5   | 9.4   | 14.2  |
| 80      | 11.2  | 10.2  | 15.2  |

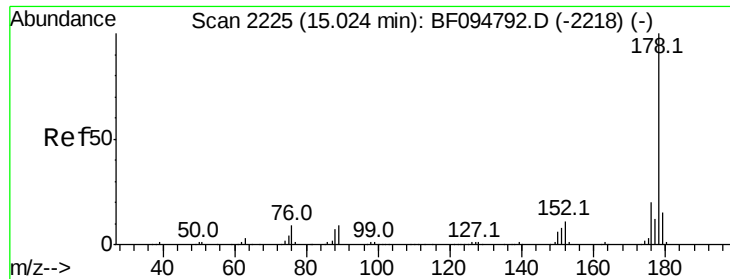


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

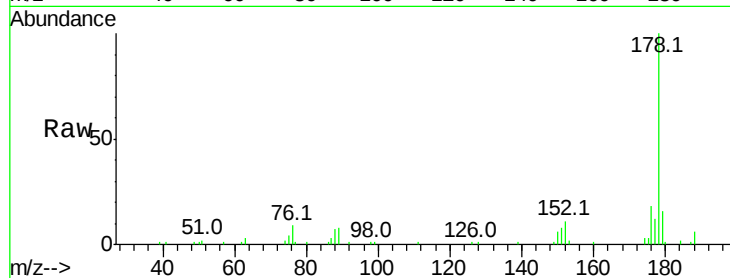
Ion 80.00 (79.70 to 80.70): BF0



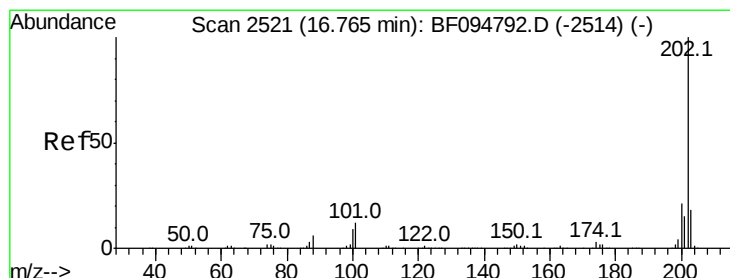
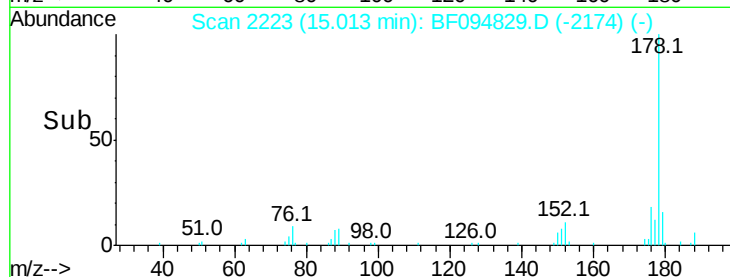
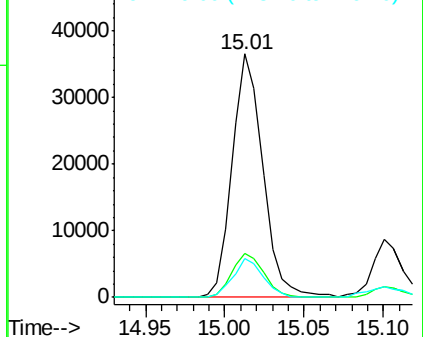


#70  
Phenanthrene  
Concen: 4.92 ng  
RT: 15.01 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tot Ion:178 Resp: 49083  
Ion Ratio Lower Upper  
178 100  
176 18.1 16.2 24.4  
179 15.8 12.6 19.0

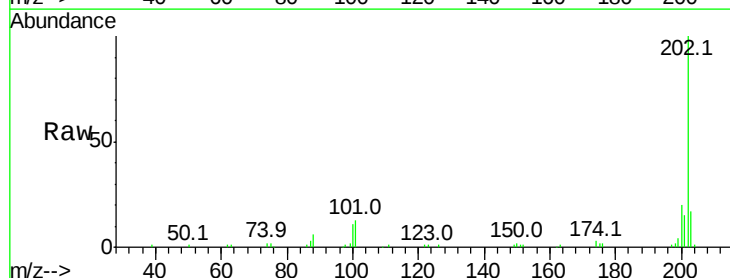


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

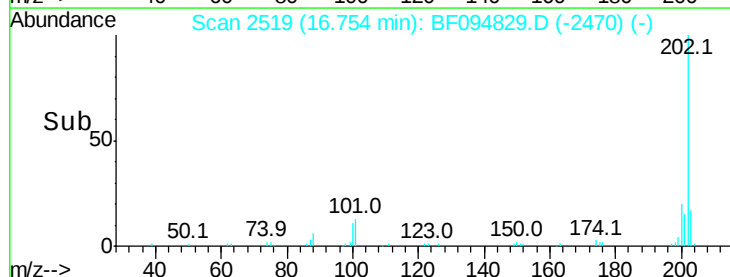
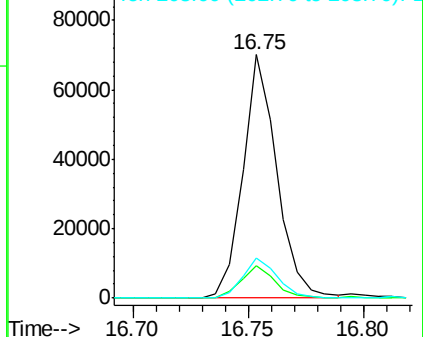


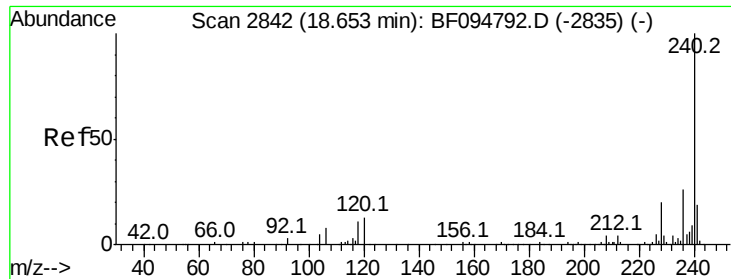
#74  
Fluoranthene  
Concen: 7.02 ng  
RT: 16.75 min Scan# 2519  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tgt Ion:202 Resp: 71819  
Ion Ratio Lower Upper  
202 100  
101 13.1 0.0 33.2  
203 16.7 0.0 38.1



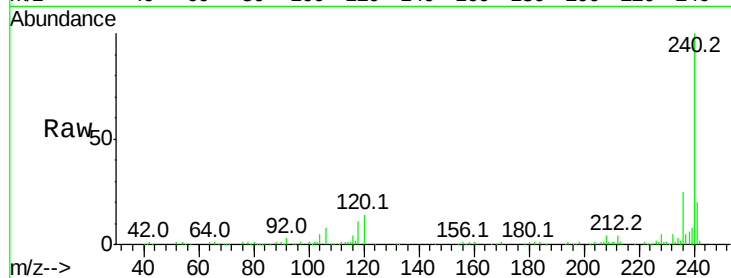
Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



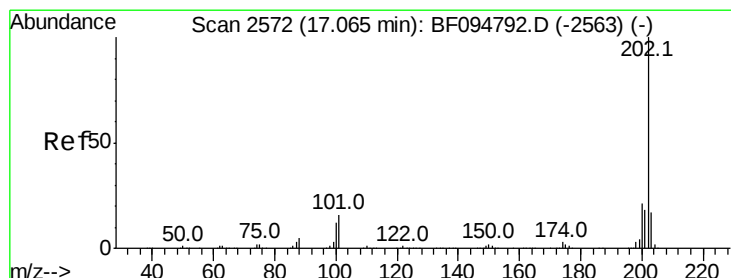
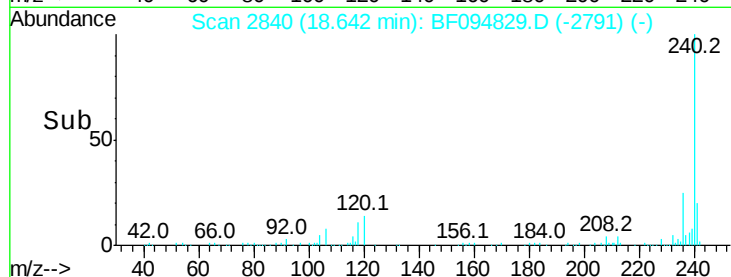
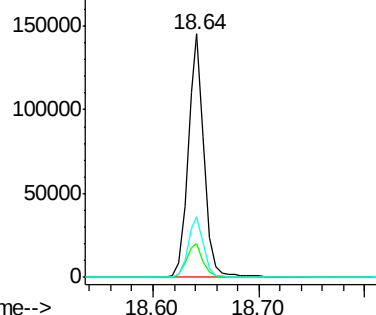


#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 18.64 min Scan# 2840  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

Tot Ion:240 Resp: 153019  
 Ion Ratio Lower Upper  
 240 100  
 120 13.8 5.8 8.8#  
 236 24.9 20.5 30.7

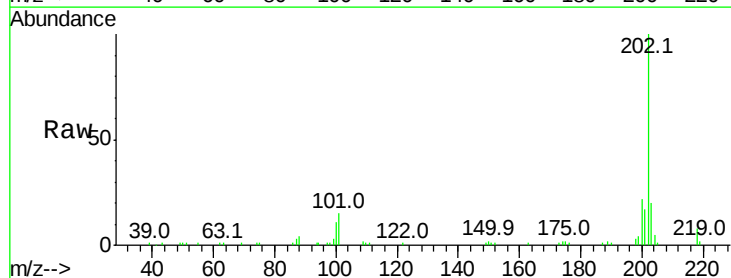


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

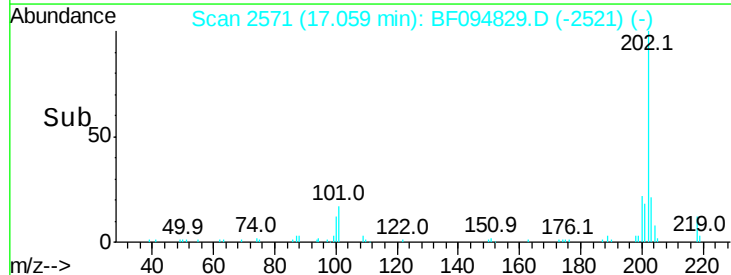
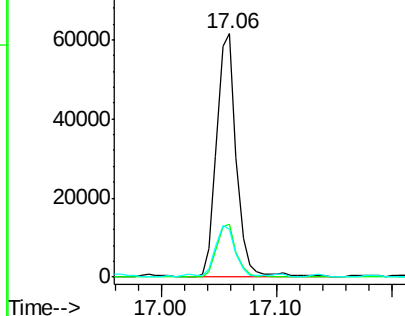


#77  
 Pyrene  
 Concen: 6.44 ng  
 RT: 17.06 min Scan# 2571  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

Tgt Ion:202 Resp: 73683  
 Ion Ratio Lower Upper  
 202 100  
 200 21.8 17.6 26.4  
 203 19.7 14.4 21.6



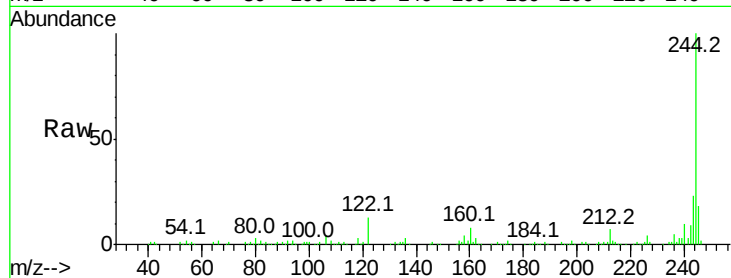
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E



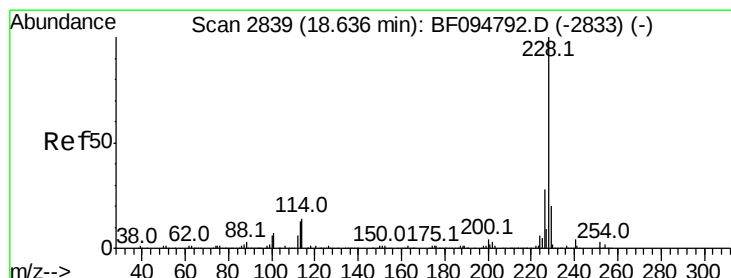
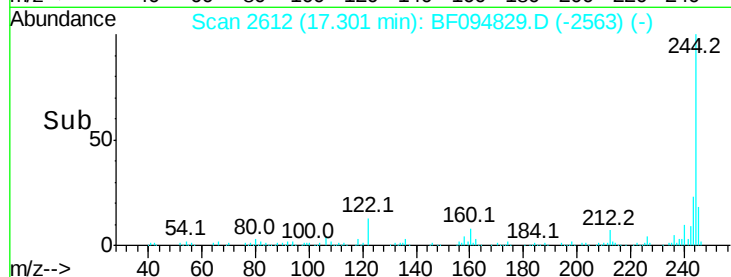
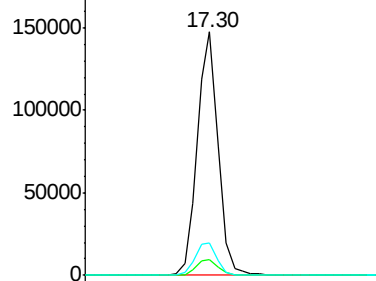


#78  
 Terphenyl-d14  
 Concen: 21.70 ng  
 RT: 17.30 min Scan# 2612  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 6.0   | 9.0   |
| 122     | 13.2  | 10.3  | 15.5  |

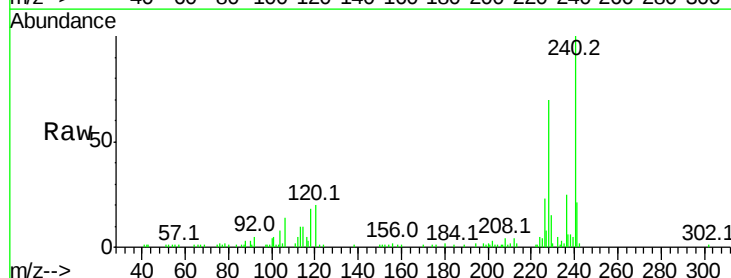


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E

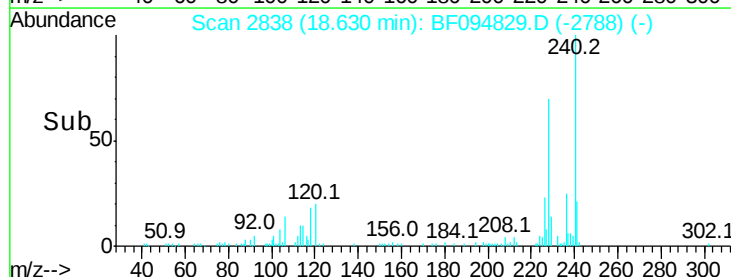
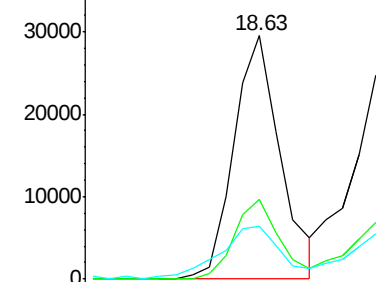


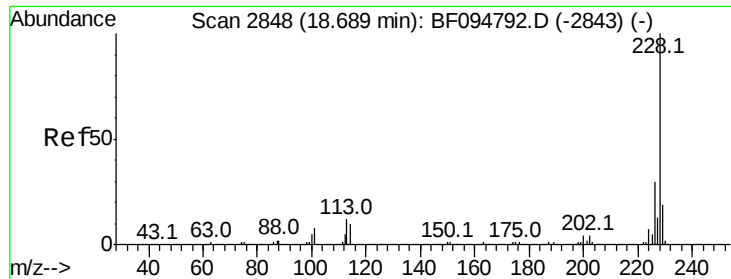
#80  
 Benzo(a)anthracene  
 Concen: 3.78 ng  
 RT: 18.63 min Scan# 2838  
 Delta R.T. -0.01 min  
 Lab File: BF094829.D  
 Acq: 3 May 2017 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.8  | 22.6  | 33.8  |
| 229     | 21.8  | 16.3  | 24.5  |



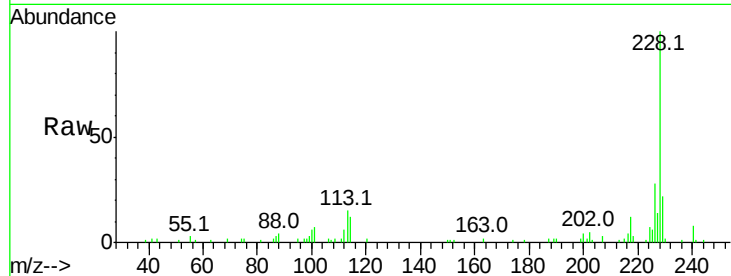
Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E



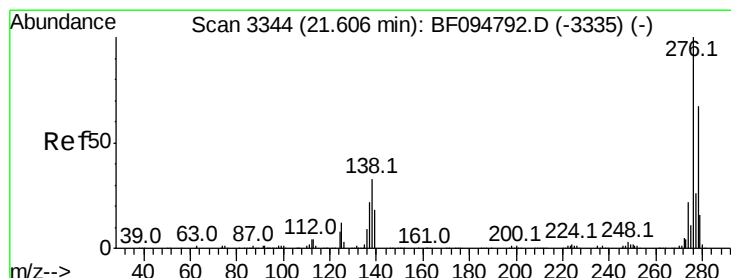
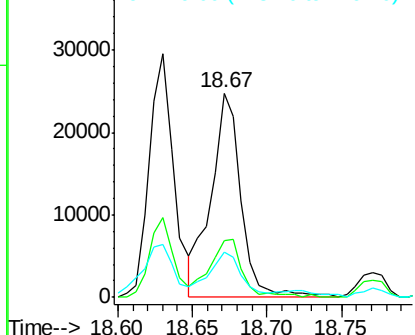
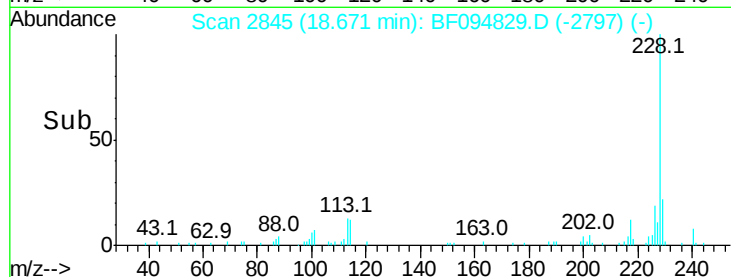


#82  
Chrysene  
Concen: 4.09 ng  
RT: 18.67 min Scan# 2845  
Delta R.T. -0.02 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tot Ion:228 Resp: 35190  
Ion Ratio Lower Upper  
228 100  
226 28.0 24.9 37.3  
229 21.9 15.8 23.6

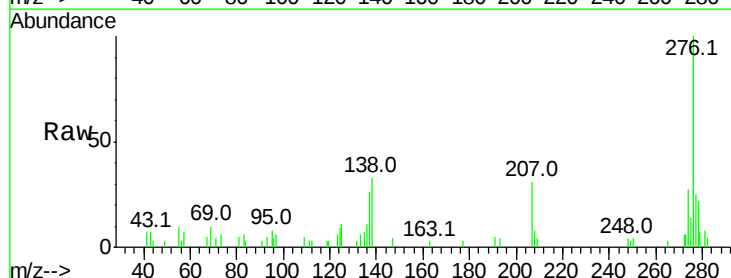


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

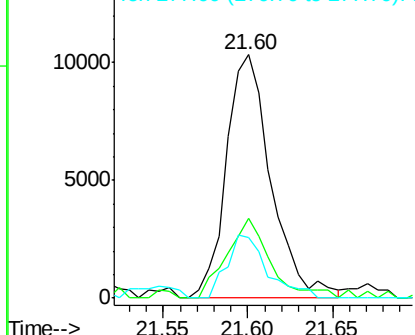
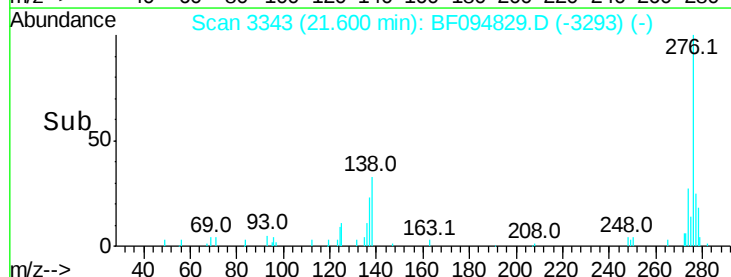


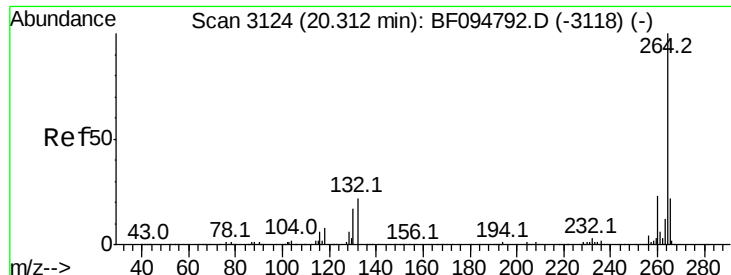
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.72 ng  
RT: 21.60 min Scan# 3343  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tgt Ion:276 Resp: 19035  
Ion Ratio Lower Upper  
276 100  
138 31.8 27.8 41.6  
277 23.5 20.2 30.4



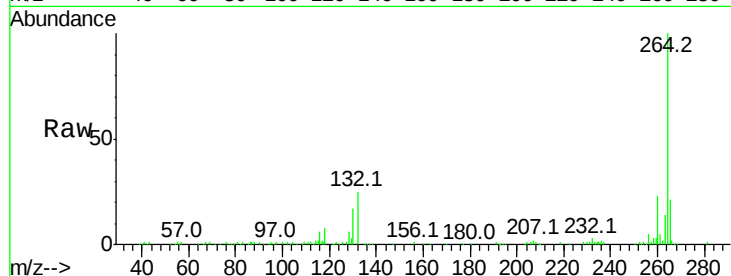
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



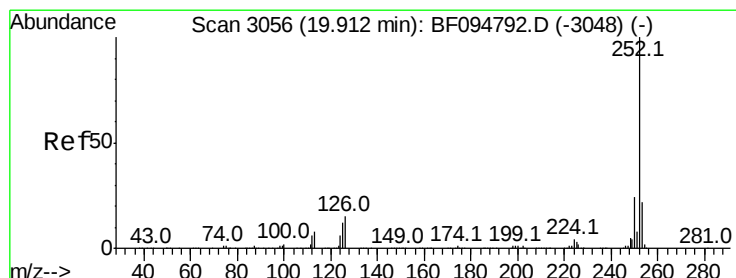
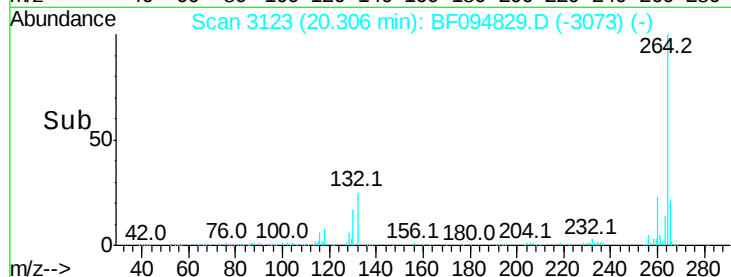
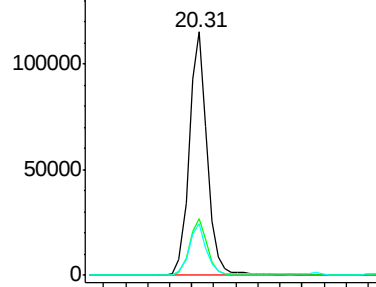


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.31 min Scan# 3123  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tot Ion:264 Resp: 129981  
Ion Ratio Lower Upper  
264 100  
260 23.2 19.5 29.3  
265 21.1 17.2 25.8

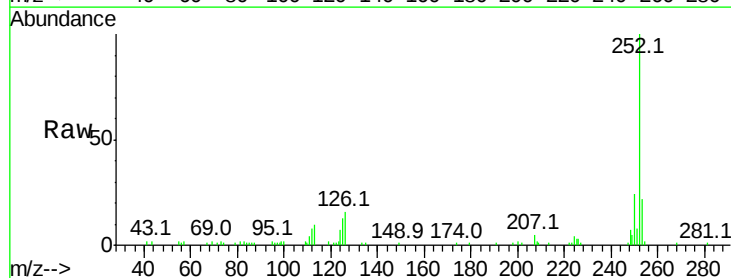


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

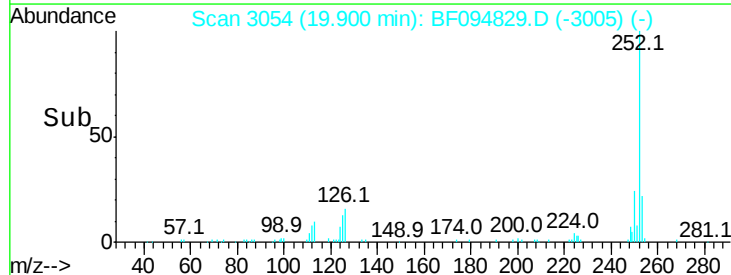
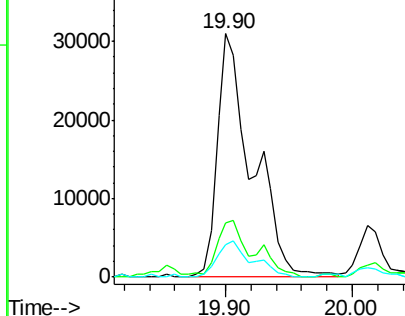


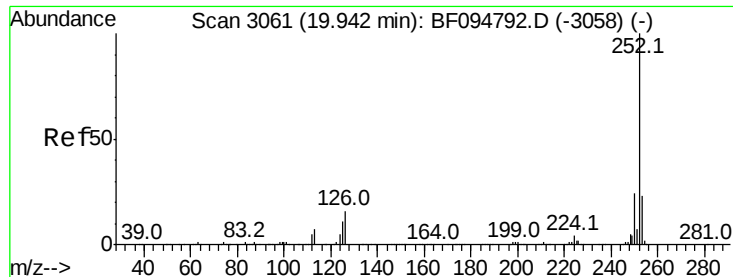
#87  
Benzo(b)fluoranthene  
Concen: 7.44 ng  
RT: 19.90 min Scan# 3054  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

Tgt Ion:252 Resp: 59790  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.1 27.1  
125 13.2 9.8 14.8



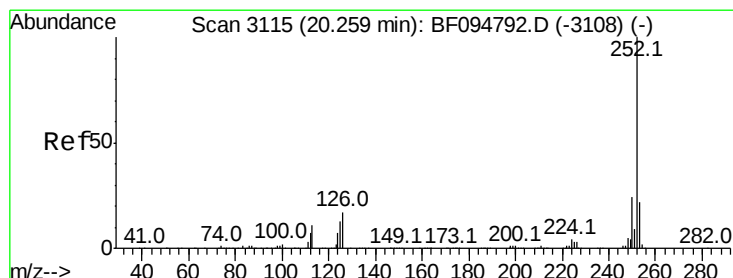
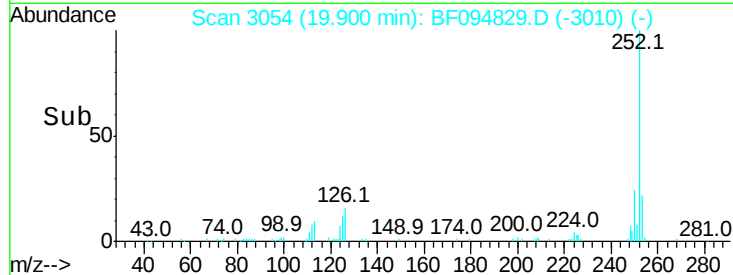
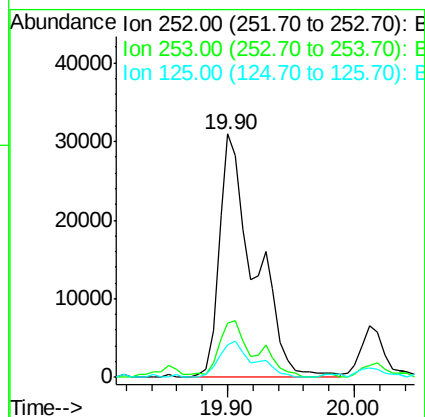
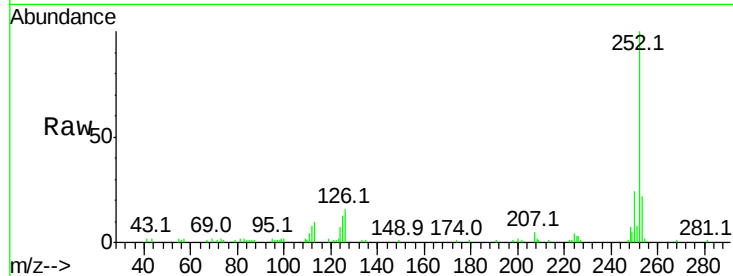
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





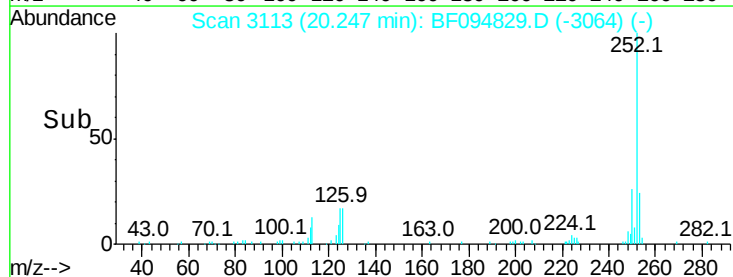
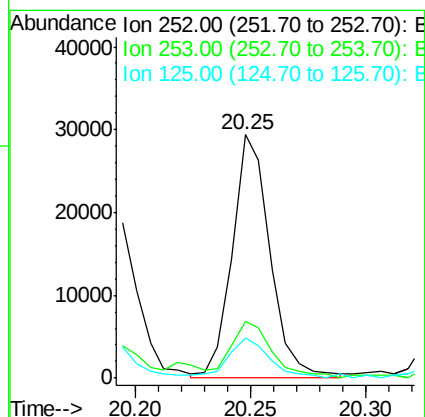
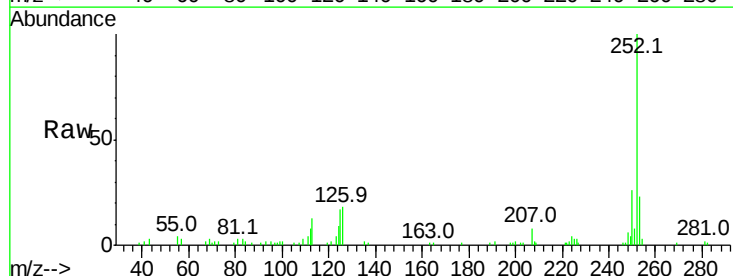
#88  
Benzo(k)fluoranthene  
Concen: 7.72 ng  
RT: 19.90 min Scan# 3054  
Delta R.T. -0.04 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

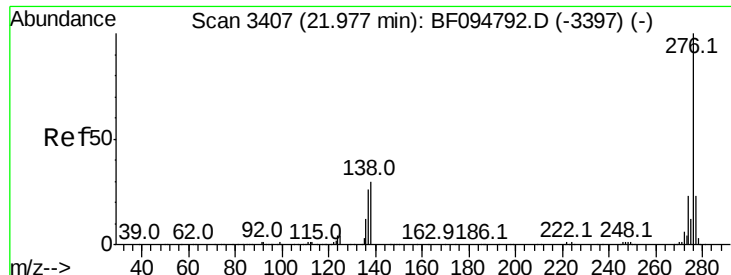
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.4  | 27.6  |
| 125     | 13.2  | 13.1  | 19.7  |



#89  
Benzo(a)pyrene  
Concen: 4.55 ng  
RT: 20.25 min Scan# 3113  
Delta R.T. -0.01 min  
Lab File: BF094829.D  
Acq: 3 May 2017 11:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.5  | 26.3  |
| 125     | 16.6  | 11.0  | 16.4  |





#91

Benzo(a,h,i)perylene

Concen: 2.80 ng

RT: 21.98 min Scan# 3407

Delta R.T. 0.00 min

Lab File: BF094829.D

Acq: 3 May 2017 11:32

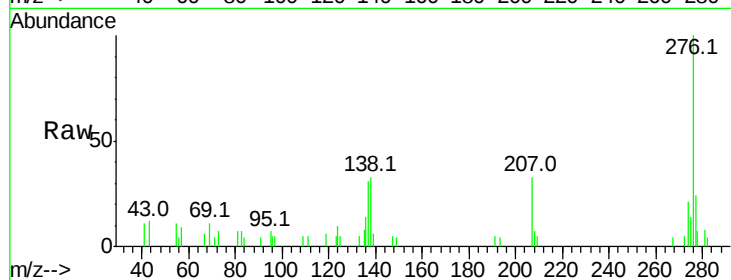
Tot Ion: 276 Resp: 16813

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 32.8 25.4 38.0



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

