

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\  
 Data File : BF095472.D  
 Acq On : 26 May 2017 21:15  
 Operator : SJ/MA  
 Sample : I3244-02  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

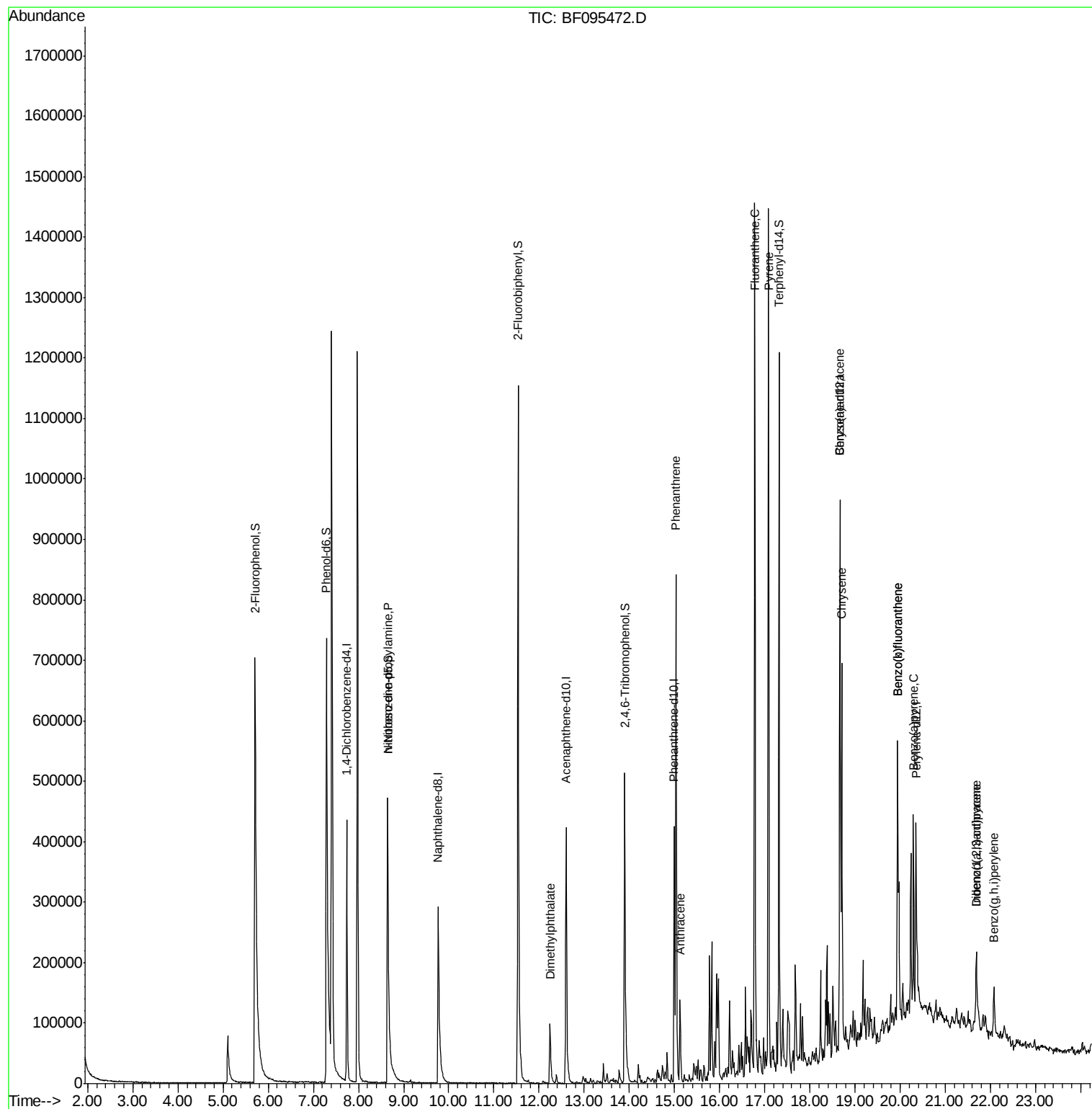
Quant Time: May 27 03:11:17 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 26 16:50:16 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.74  | 152  | 95626    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 9.77  | 136  | 364710   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 12.60 | 164  | 160055   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 14.99 | 188  | 223128   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 18.67 | 240  | 199904   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 20.35 | 264  | 143940   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.71  | 112  | 618958   | 107.91 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.29  | 99   | 752490   | 109.34 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.65  | 82   | 407848   | 70.52  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 13.89 | 330  | 110661   | 84.42  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 11.54 | 172  | 720682   | 64.81  | ng    | 0.00     |
| 78) Terphenyl-d14              | 17.32 | 244  | 435700   | 48.01  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 8.65  | 70   | 44604    | 9.58   | ng    | # 75     |
| 49) Dimethylphthalate          | 12.24 | 163  | 91459    | 6.96   | ng    | 100      |
| 70) Phenanthrene               | 15.04 | 178  | 514174   | 40.11  | ng    | 97       |
| 71) Anthracene                 | 15.12 | 178  | 92164    | 7.04   | ng    | 97       |
| 74) Fluoranthene               | 16.78 | 202  | 763560   | 58.06  | ng    | 99       |
| 77) Pyrene                     | 17.08 | 202  | 680131   | 45.49  | ng    | 98       |
| 80) Benzo(a)anthracene         | 18.66 | 228  | 328748   | 28.26  | ng    | 98       |
| 82) Chrysene                   | 18.71 | 228  | 304218   | 27.04  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 21.69 | 276  | 78412    | 8.58   | ng    | 92       |
| 87) Benzo(b)fluoranthene       | 19.95 | 252  | 346090   | 38.91  | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 19.95 | 252  | 346090   | 40.34  | ng    | 96       |
| 89) Benzo(a)pyrene             | 20.29 | 252  | 153241   | 18.67  | ng    | 97       |
| 90) Dibenzo(a,h)anthracene     | 21.68 | 278  | 21397    | 3.16   | ng    | # 89     |
| 91) Benzo(a,h,i)perylene       | 22.08 | 276  | 65146    | 9.79   | ng    | 94       |

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

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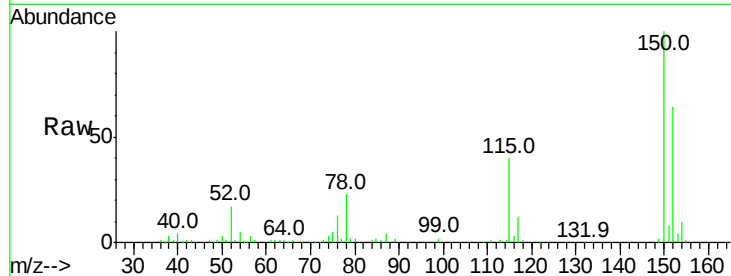




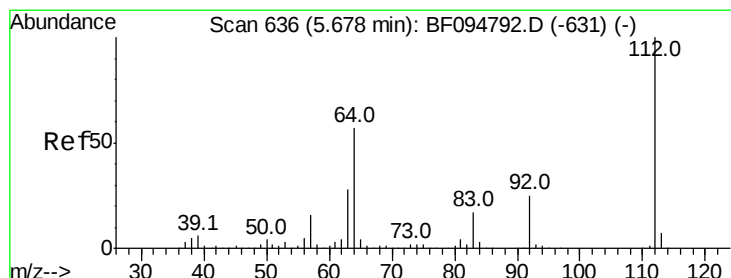
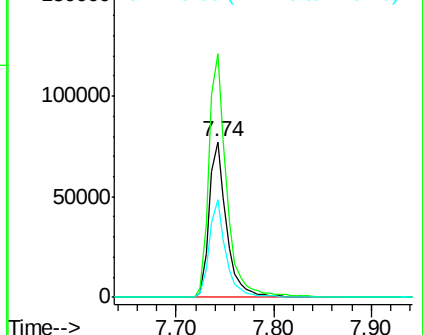
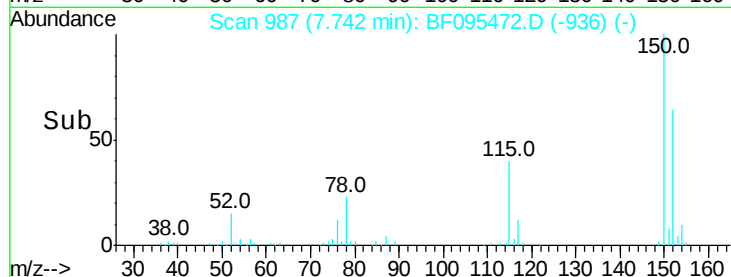
#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.74 min Scan# 987  
Delta R.T. 0.00 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

Tot Ion:152 Resp: 95626  
Ion Ratio Lower Upper  
152 100  
150 156.3 126.2 189.2  
115 62.8 52.2 78.2



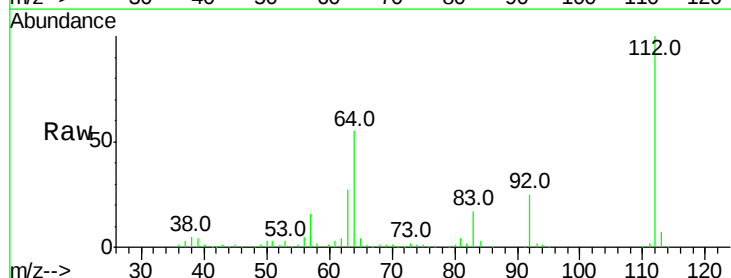
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



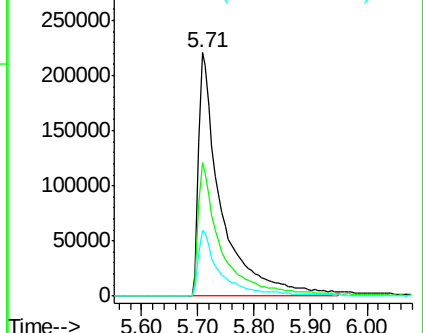
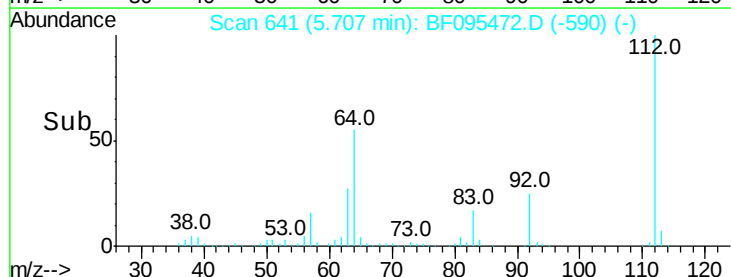
#5

2-Fluorophenol  
Concen: 107.91 ng  
RT: 5.71 min Scan# 641  
Delta R.T. 0.00 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

Tgt Ion:112 Resp: 618958  
Ion Ratio Lower Upper  
112 100  
64 54.9 46.0 69.0  
63 26.9 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: 109.34 ng

RT: 7.29 min Scan# 910

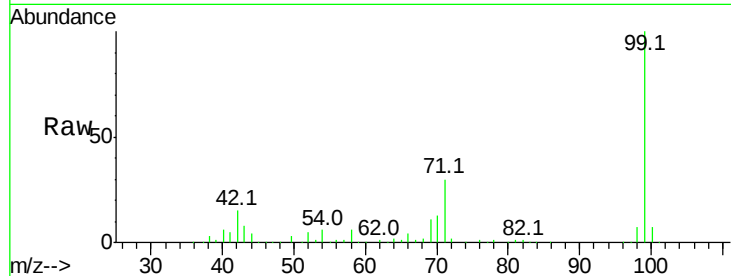
Delta R.T. -0.01 min

Lab File: BF095472.D

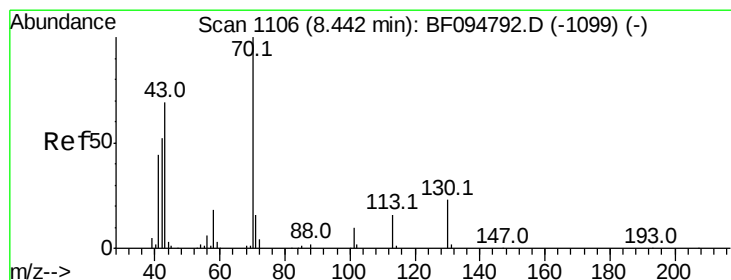
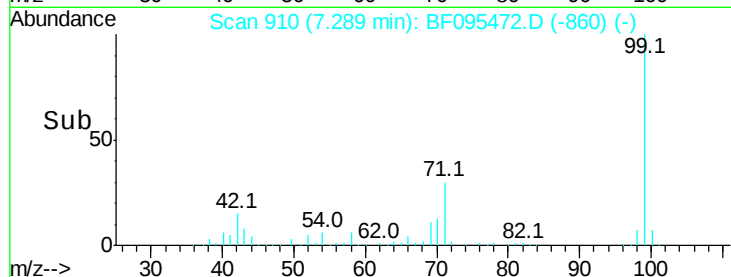
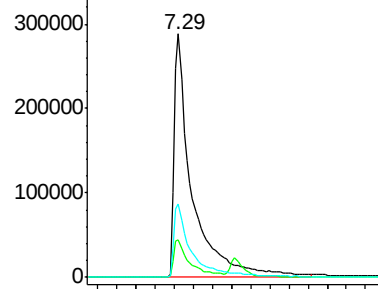
Acq: 26 May 2017 21:15

Tot Ion: 99 Resp: 752490

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.3  | 13.5  | 20.3  |
| 71  | 29.9  | 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: 9.58 ng

RT: 8.65 min Scan# 1141

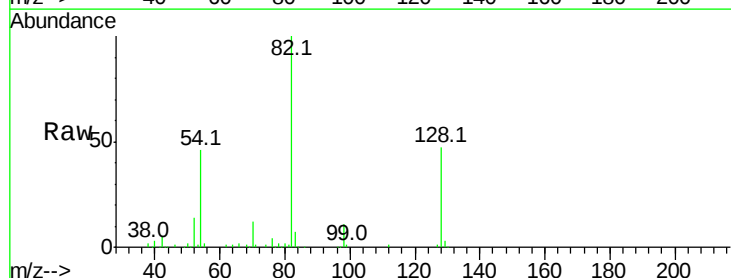
Delta R.T. 0.19 min

Lab File: BF095472.D

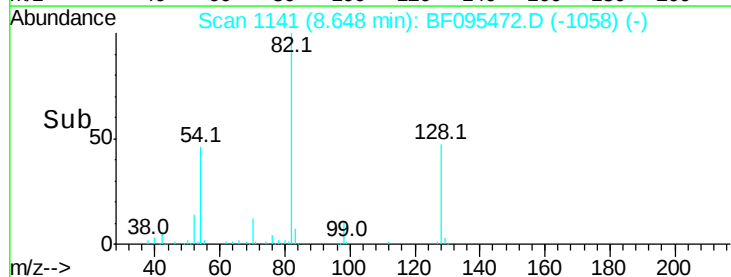
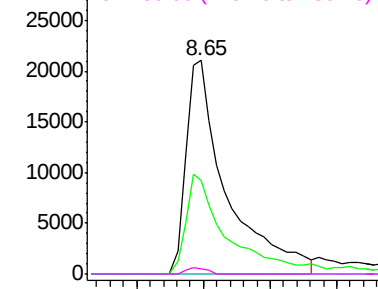
Acq: 26 May 2017 21:15

Tgt Ion: 70 Resp: 44604

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 43.5  | 47.2  | 70.8# |
| 101 | 0.0   | 7.2   | 10.8# |
| 130 | 2.4   | 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: 9.77 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BF095472.D

Acq: 26 May 2017 21:15

Tot Ion:136 Resp: 364710

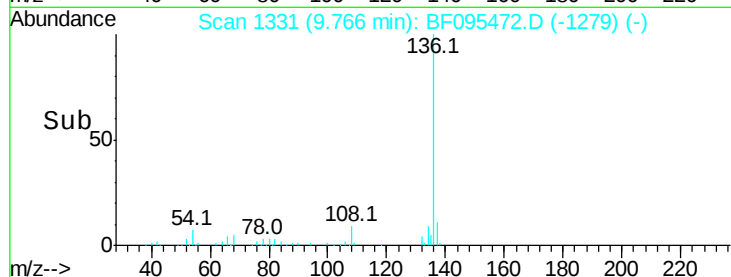
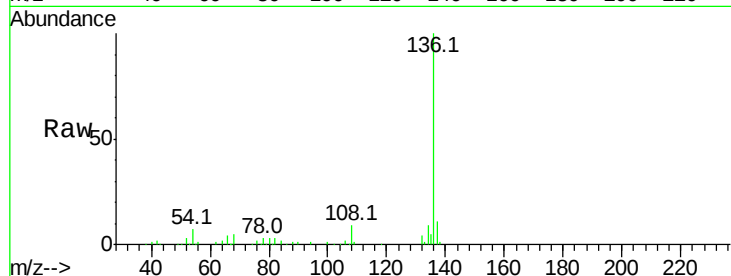
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.9 4.9 7.3

68 5.4 4.1 6.1

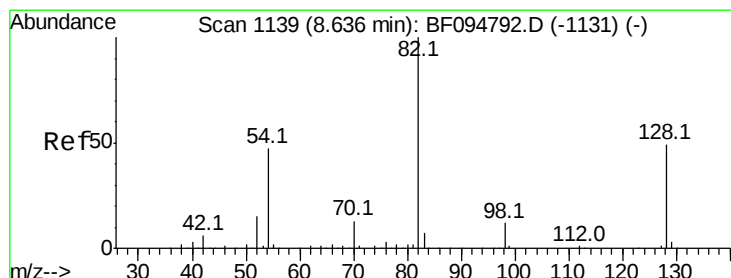
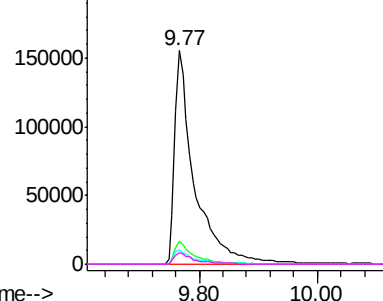


Abundance Ion 136.00 (135.70 to 136.70): E

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: 70.52 ng

RT: 8.65 min Scan# 1141

Delta R.T. -0.01 min

Lab File: BF095472.D

Acq: 26 May 2017 21:15

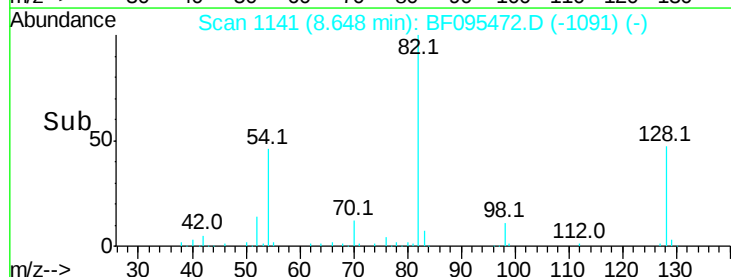
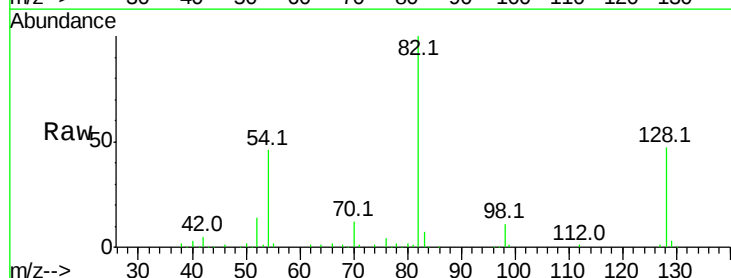
Tgt Ion: 82 Resp: 407848

Ion Ratio Lower Upper

82 100

128 47.5 34.0 51.0

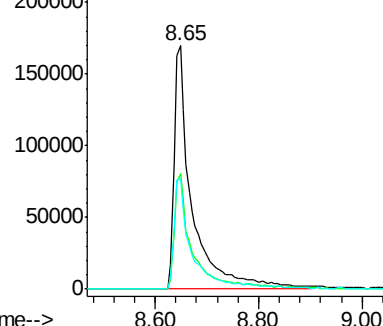
54 45.6 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

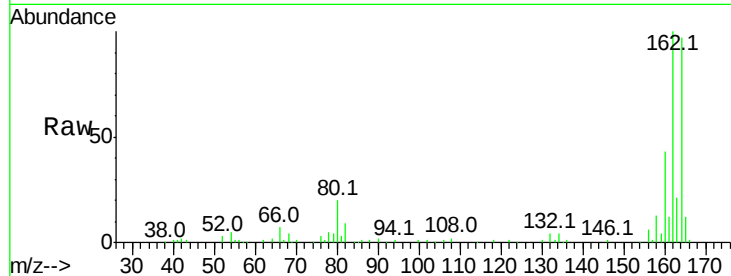
Ion 54.00 (53.70 to 54.70): BF0



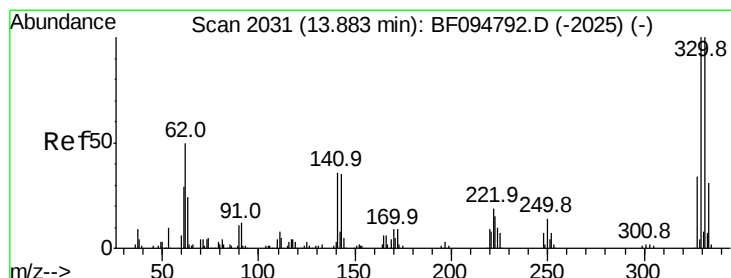
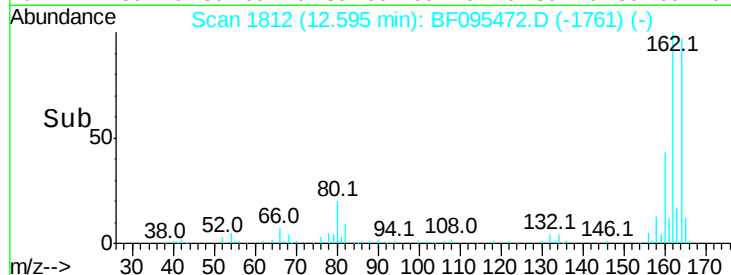
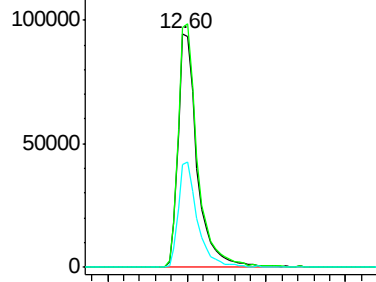


#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.60 min Scan# 1812  
Delta R.T. 0.00 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.7 | 82.6  | 123.8 |
| 160     | 44.2  | 36.2  | 54.2  |

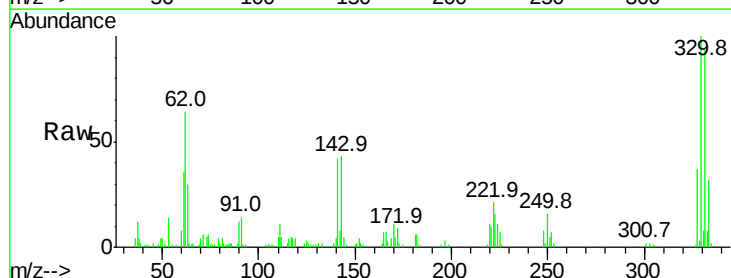


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

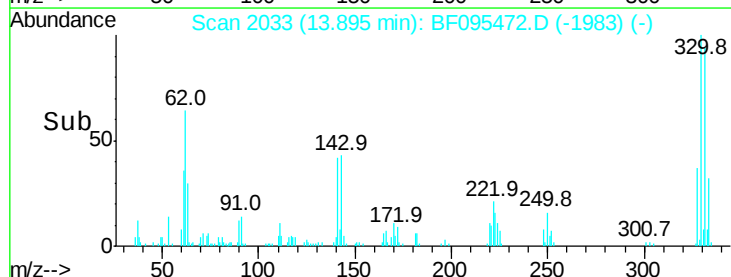
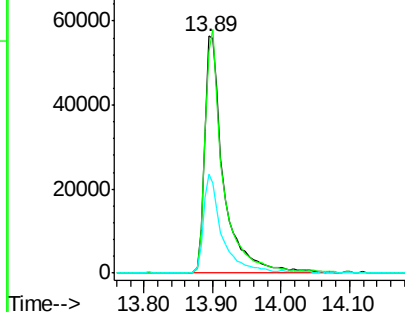


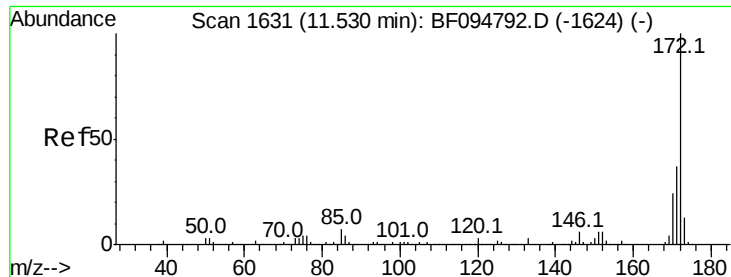
#41  
2,4,6-Tribromophenol  
Concen: 84.42 ng  
RT: 13.89 min Scan# 2033  
Delta R.T. -0.01 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.6  | 115.0 |
| 141     | 40.3  | 31.4  | 47.2  |



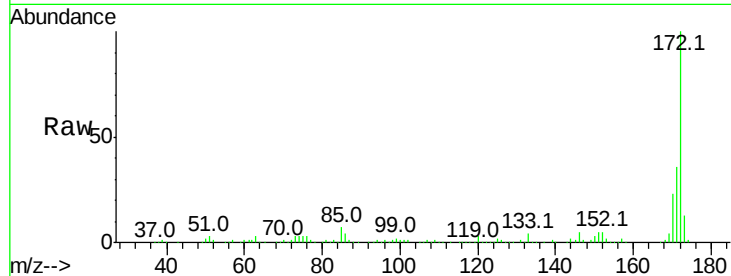
Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



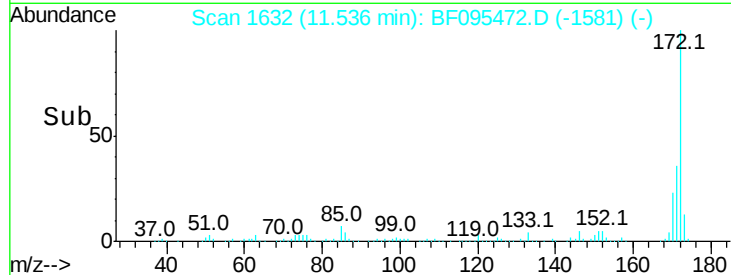
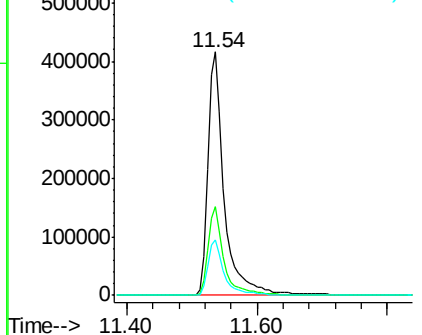


#44  
2-Fluorobiphenyl  
Concen: 64.81 ng  
RT: 11.54 min Scan# 1632  
Delta R.T. 0.00 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.6  | 44.4  |
| 170     | 23.0  | 19.8  | 29.8  |

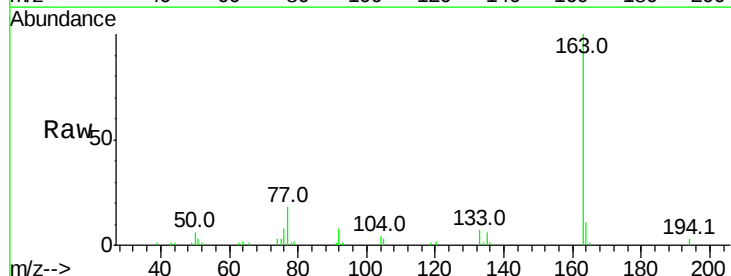


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

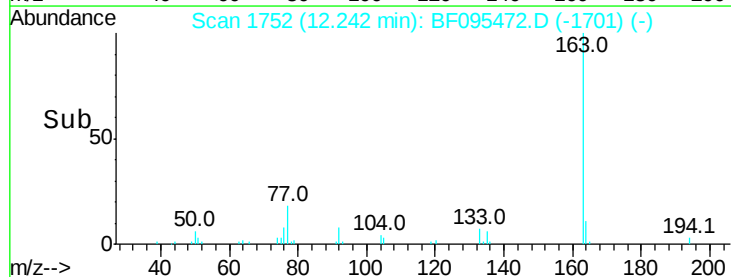
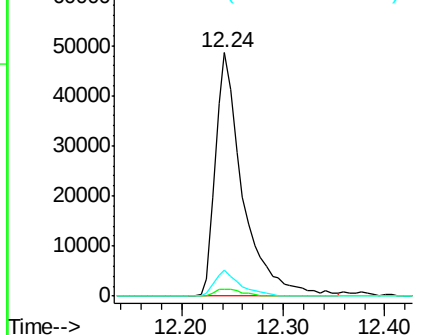


#49  
Dimethylphthalate  
Concen: 6.96 ng  
RT: 12.24 min Scan# 1752  
Delta R.T. 0.00 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 2.6   | 4.0   |
| 164     | 10.6  | 8.4   | 12.6  |



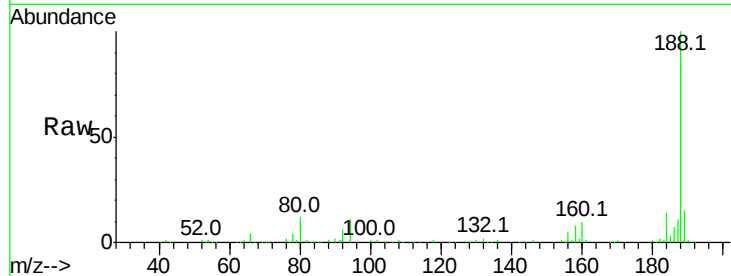
Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



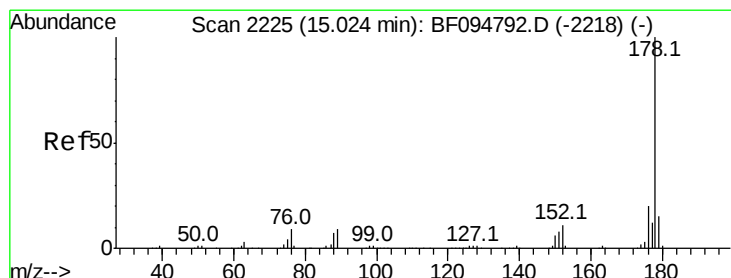
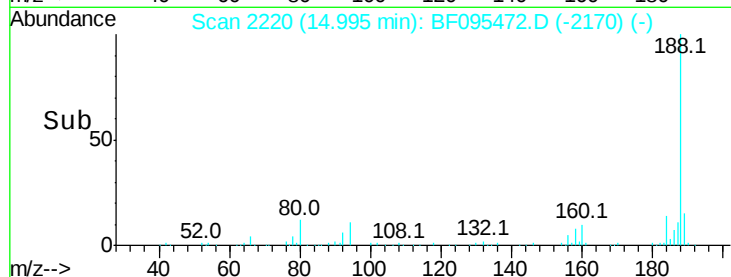
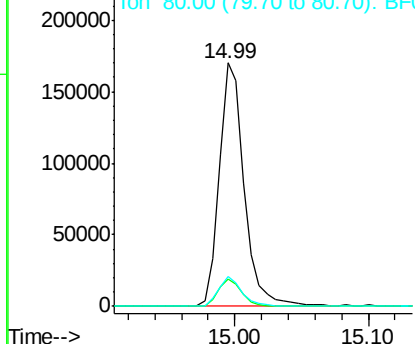


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.99 min Scan# 2220  
 Delta R.T. -0.01 min  
 Lab File: BF095472.D  
 Acq: 26 May 2017 21:15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.3  | 9.4   | 14.2  |
| 80      | 12.1  | 10.2  | 15.2  |

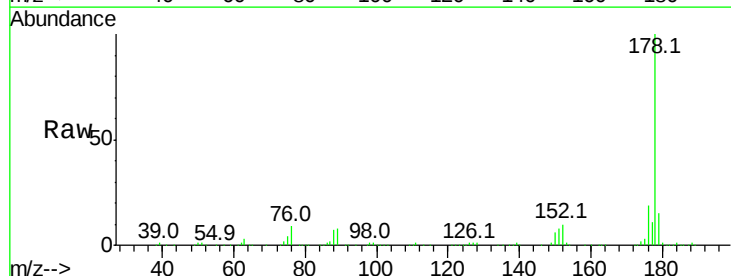


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

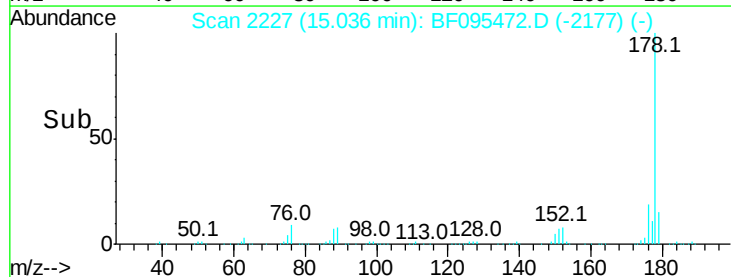
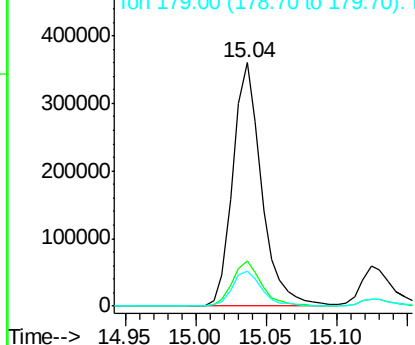


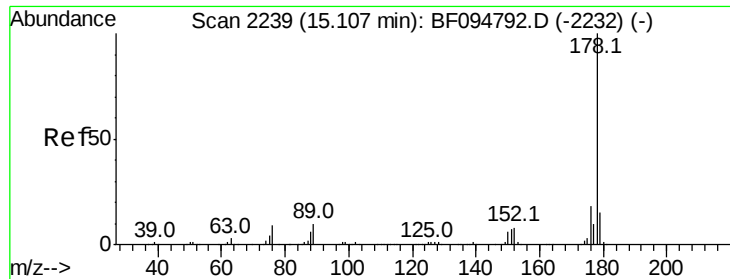
#70  
 Phenanthrene  
 Concen: 40.11 ng  
 RT: 15.04 min Scan# 2227  
 Delta R.T. -0.01 min  
 Lab File: BF095472.D  
 Acq: 26 May 2017 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 16.2  | 24.4  |
| 179     | 14.6  | 12.6  | 19.0  |



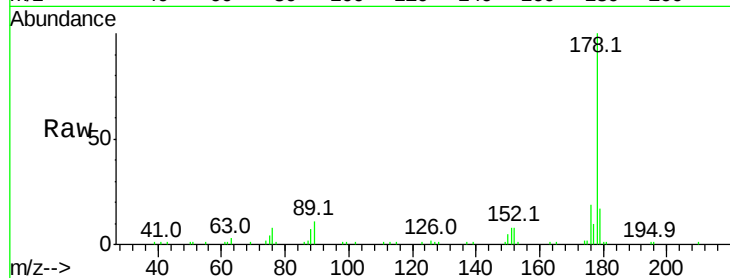
Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E



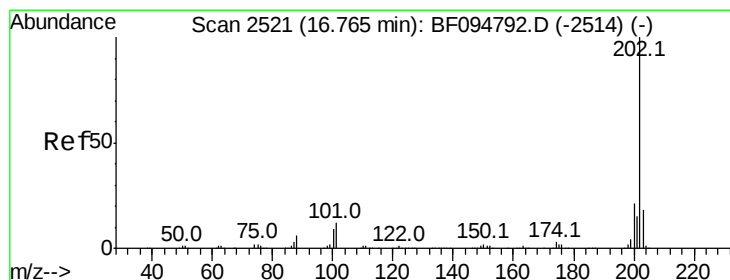
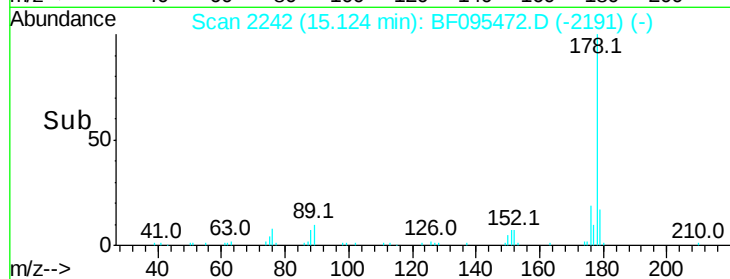
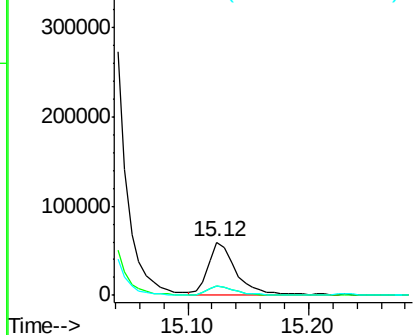


#71  
 Anthracene  
 Concen: 7.04 ng  
 RT: 15.12 min Scan# 2242  
 Delta R.T. 0.00 min  
 Lab File: BF095472.D  
 Acq: 26 May 2017 21:15

Tot Ion:178 Resp: 92164  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 15.8 23.8  
 179 17.2 12.7 19.1

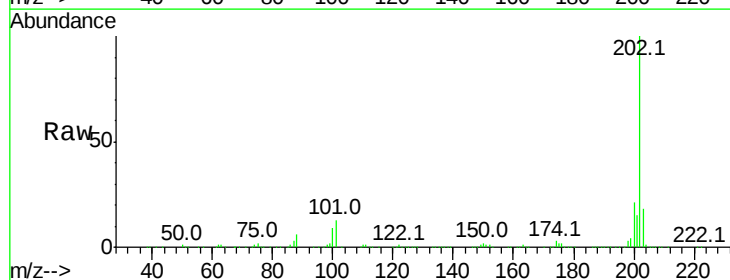


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

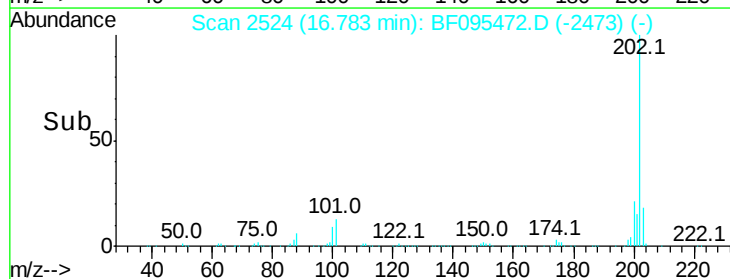
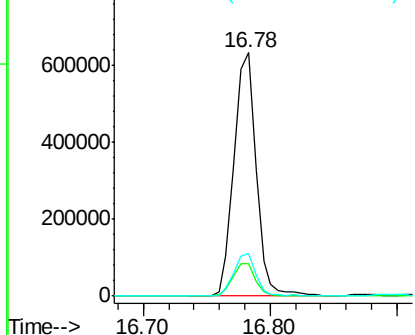


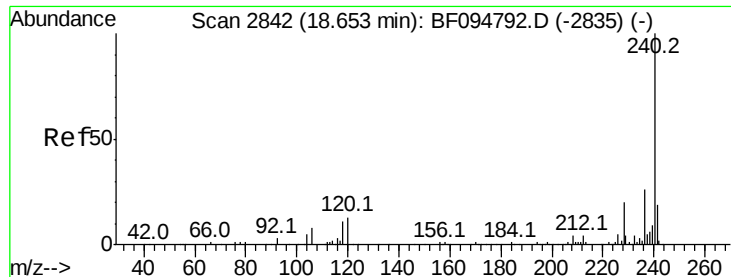
#74  
 Fluoranthene  
 Concen: 58.06 ng  
 RT: 16.78 min Scan# 2524  
 Delta R.T. 0.00 min  
 Lab File: BF095472.D  
 Acq: 26 May 2017 21:15

Tgt Ion:202 Resp: 763560  
 Ion Ratio Lower Upper  
 202 100  
 101 13.4 0.0 33.2  
 203 17.6 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: 18.67 min Scan# 2845

Delta R.T. -0.01 min

Lab File: BF095472.D

Acq: 26 May 2017 21:15

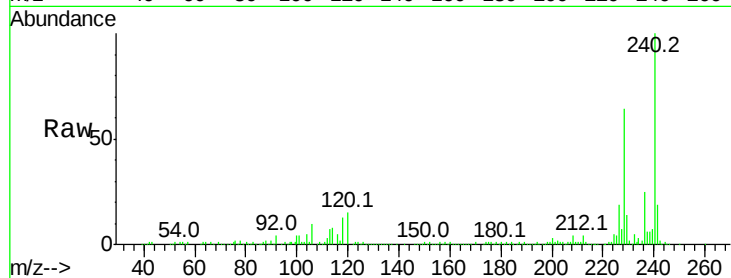
Tot Ion:240 Resp: 199904

Ion Ratio Lower Upper

240 100

120 14.9 5.8 8.8#

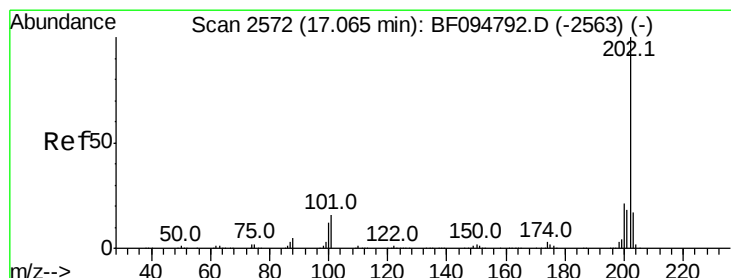
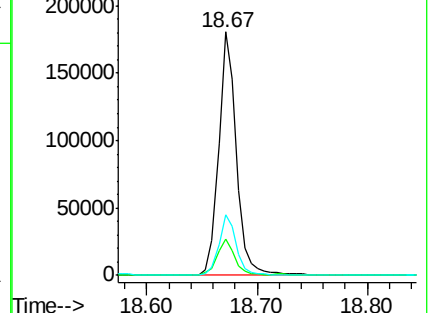
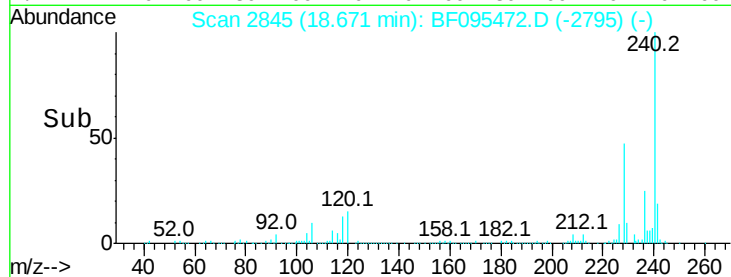
236 25.1 20.5 30.7



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: 45.49 ng

RT: 17.08 min Scan# 2575

Delta R.T. -0.01 min

Lab File: BF095472.D

Acq: 26 May 2017 21:15

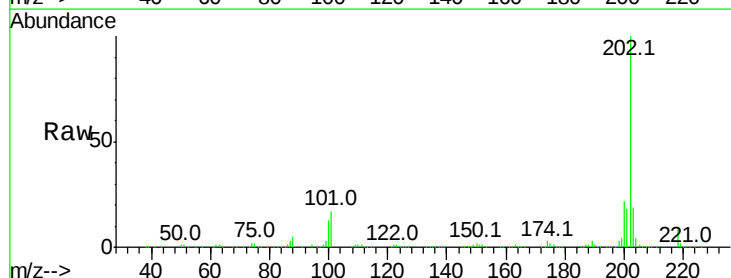
Tgt Ion:202 Resp: 680131

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

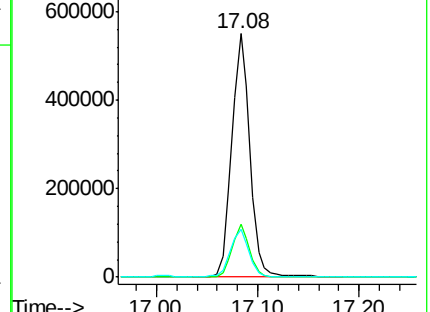
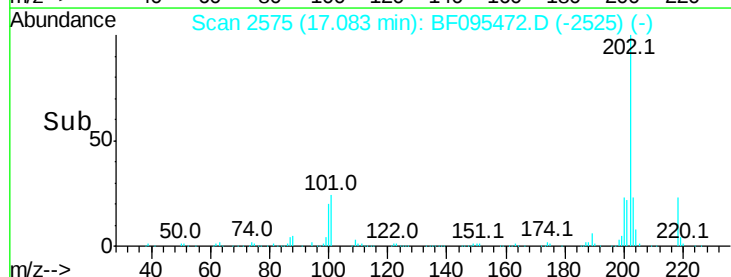
203 19.4 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

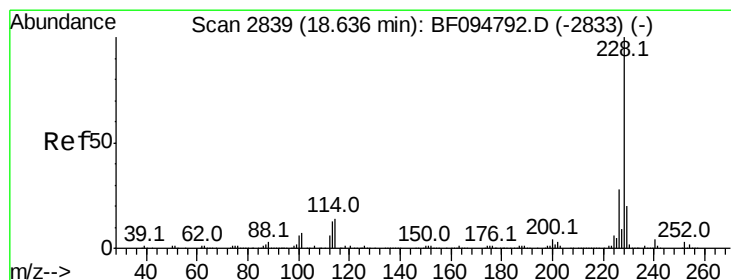
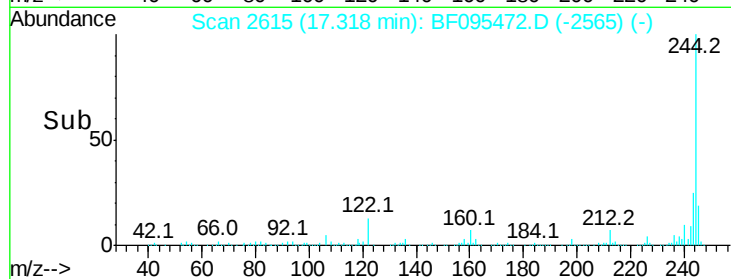
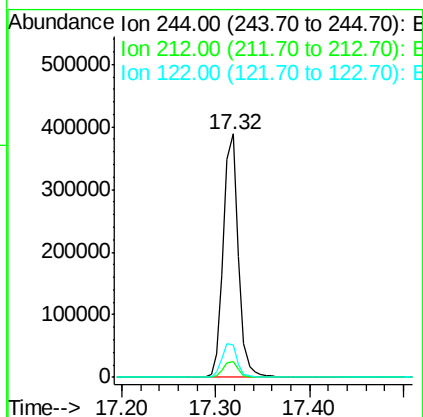
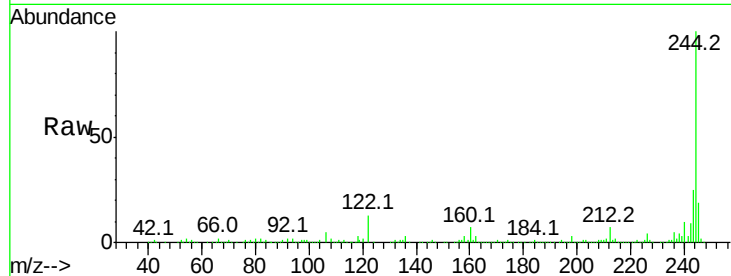
Ion 203.00 (202.70 to 203.70): E





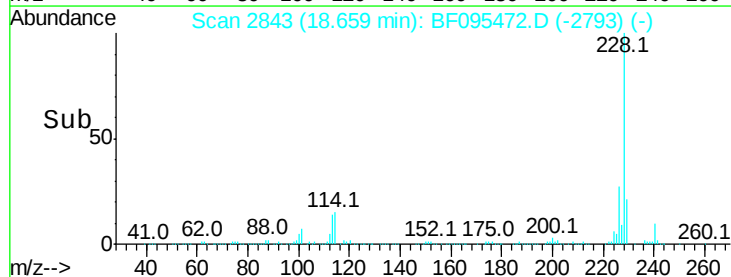
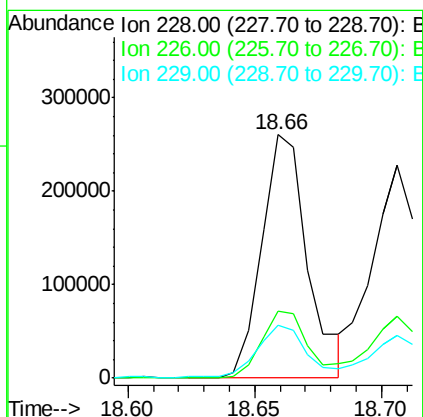
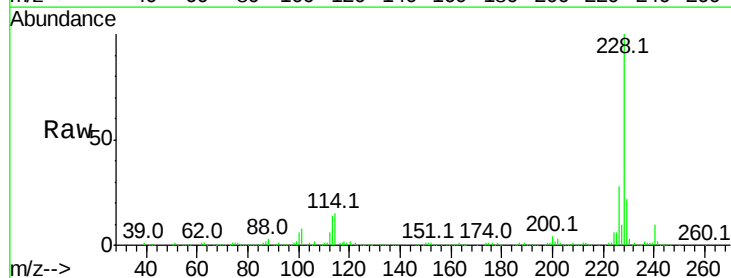
#78  
 Terphenyl-d14  
 Concen: 48.01 ng  
 RT: 17.32 min Scan# 2615  
 Delta R.T. -0.01 min  
 Lab File: BF095472.D  
 Acq: 26 May 2017 21:15

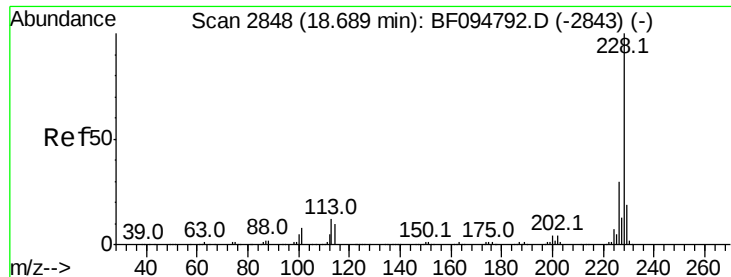
Tot Ion:244 Resp: 435700  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 6.0 9.0  
 122 13.1 10.3 15.5



#80  
 Benzo(a)anthracene  
 Concen: 28.26 ng  
 RT: 18.66 min Scan# 2843  
 Delta R.T. -0.01 min  
 Lab File: BF095472.D  
 Acq: 26 May 2017 21:15

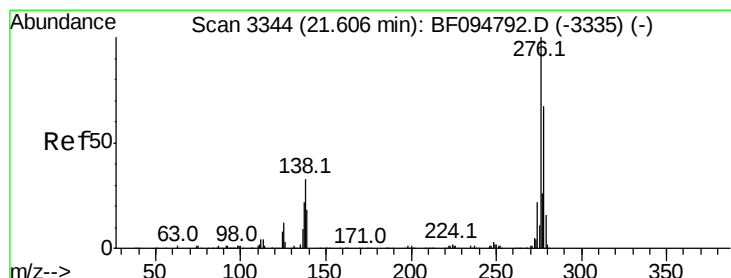
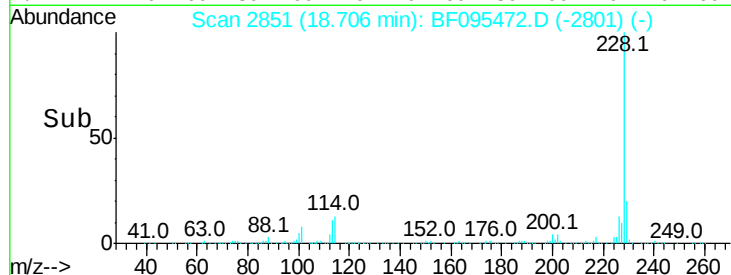
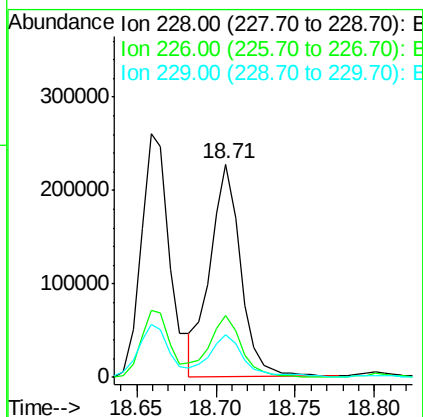
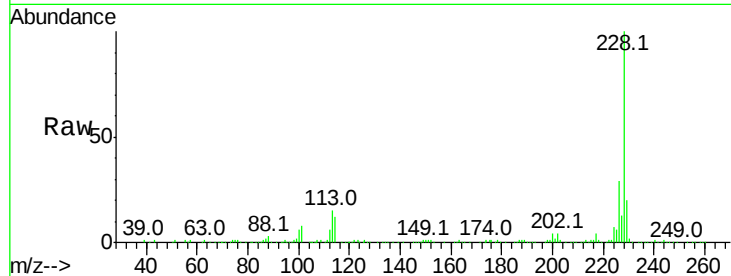
Tgt Ion:228 Resp: 328748  
 Ion Ratio Lower Upper  
 228 100  
 226 27.7 22.6 33.8  
 229 21.7 16.3 24.5





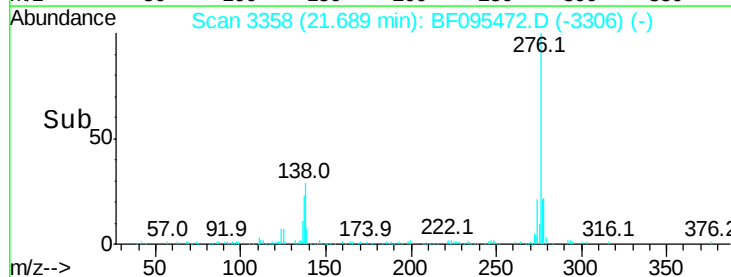
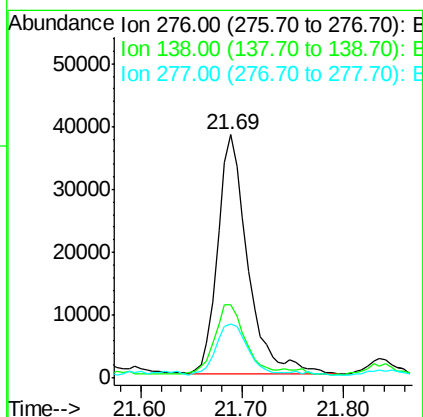
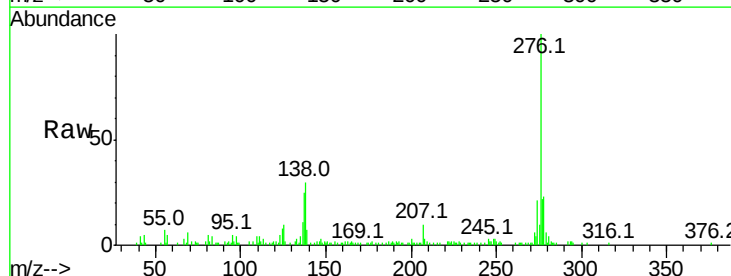
#82  
Chrysene  
Concen: 27.04 ng  
RT: 18.71 min Scan# 2851  
Delta R.T. -0.01 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

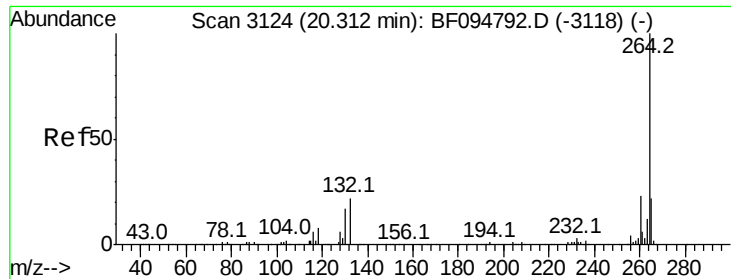
|     |         |       |        |
|-----|---------|-------|--------|
| Tot | Ion:228 | Resp: | 304218 |
| Ion | Ratio   | Lower | Upper  |
| 228 | 100     |       |        |
| 226 | 28.9    | 24.9  | 37.3   |
| 229 | 20.2    | 15.8  | 23.6   |



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 8.58 ng  
RT: 21.69 min Scan# 3358  
Delta R.T. 0.01 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

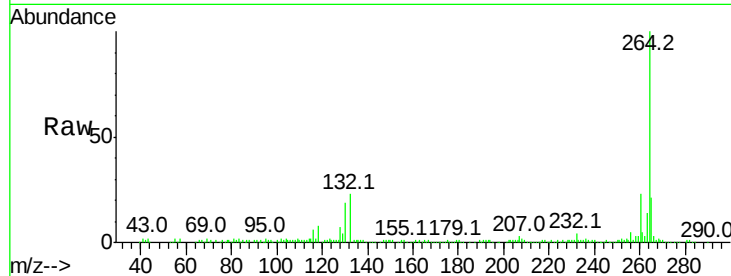
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:276 | Resp: | 78412 |
| Ion | Ratio   | Lower | Upper |
| 276 | 100     |       |       |
| 138 | 29.3    | 27.8  | 41.6  |
| 277 | 22.2    | 20.2  | 30.4  |



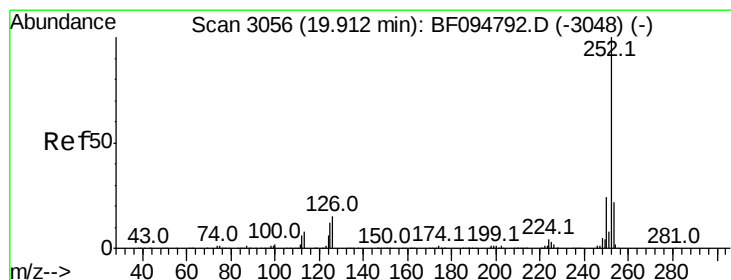
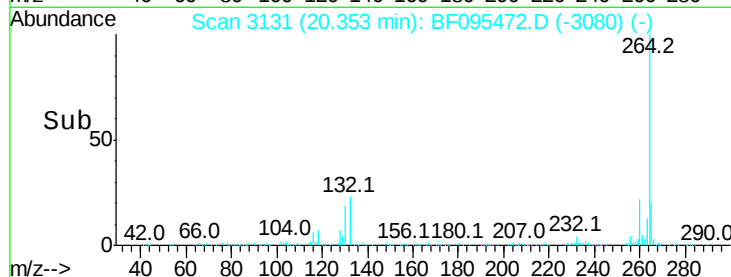
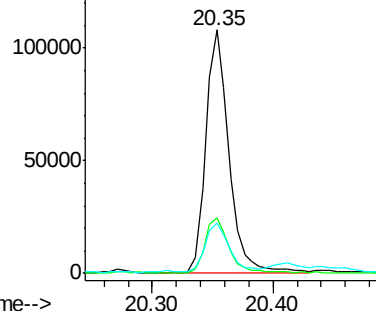


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.35 min Scan# 3131  
Delta R.T. 0.00 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 19.5  | 29.3  |
| 265     | 20.7  | 17.2  | 25.8  |

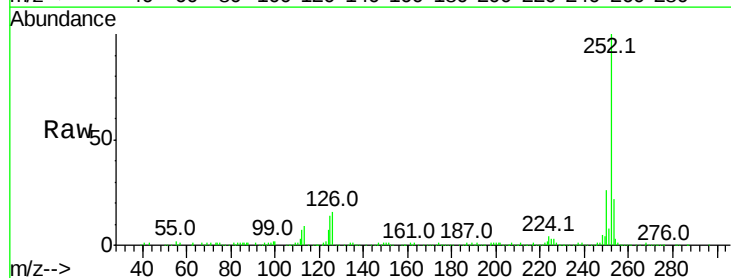


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

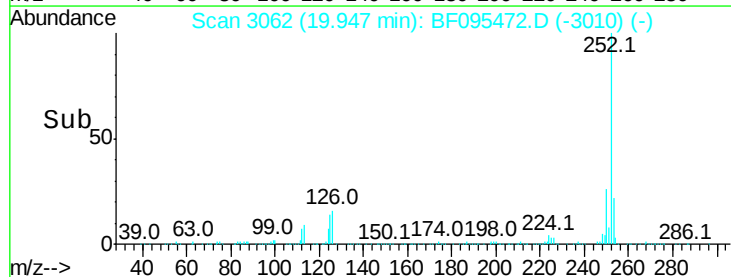
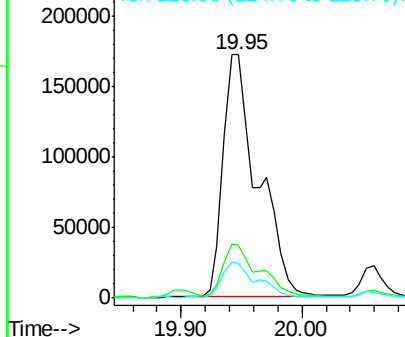


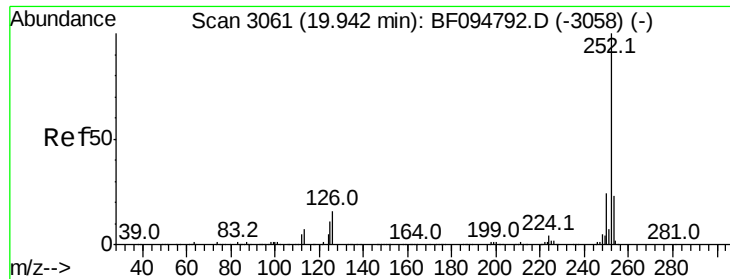
#87  
Benzo(b)fluoranthene  
Concen: 38.91 ng  
RT: 19.95 min Scan# 3062  
Delta R.T. 0.01 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 18.1  | 27.1  |
| 125     | 14.2  | 9.8   | 14.8  |



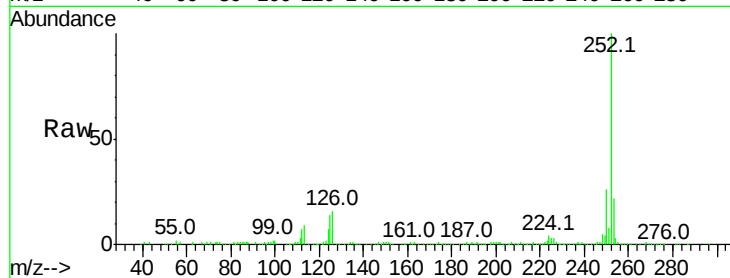
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



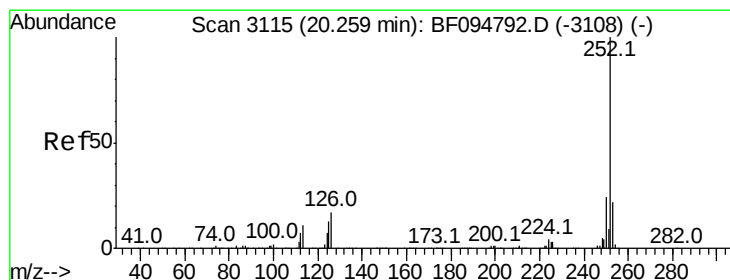
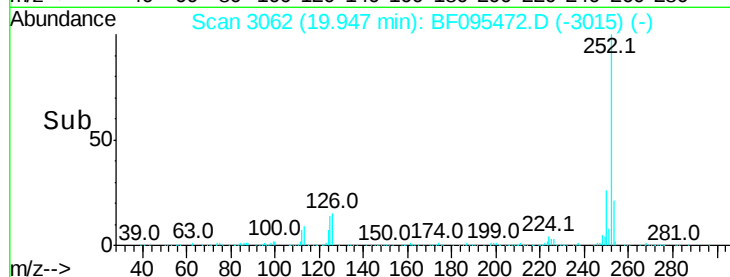
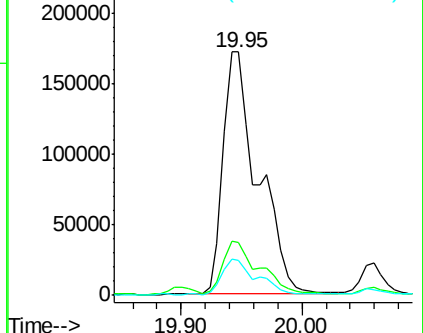


#88  
Benzo(k)fluoranthene  
Concen: 40.34 ng  
RT: 19.95 min Scan# 3062  
Delta R.T. -0.02 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 18.4  | 27.6  |
| 125     | 14.2  | 13.1  | 19.7  |

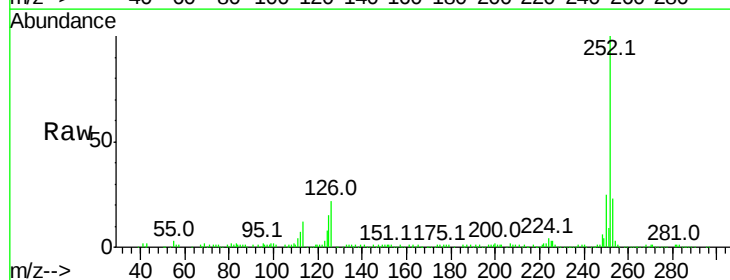


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

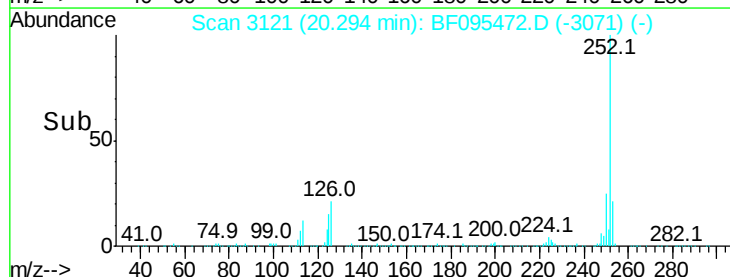
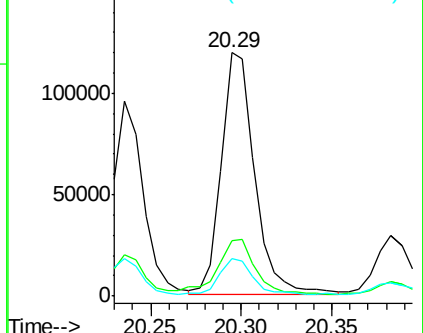


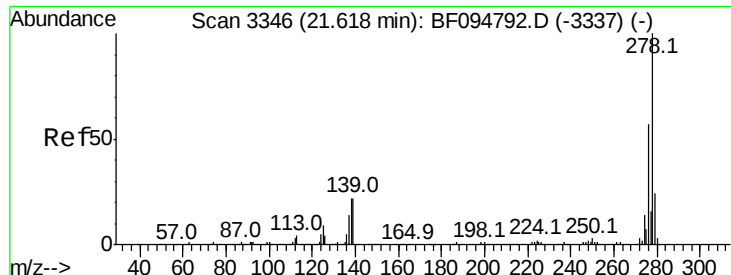
#89  
Benzo(a)pyrene  
Concen: 18.67 ng  
RT: 20.29 min Scan# 3121  
Delta R.T. -0.01 min  
Lab File: BF095472.D  
Acq: 26 May 2017 21:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.5  | 26.3  |
| 125     | 15.4  | 11.0  | 16.4  |



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

Dibenzo(a,h)anthracene

Concen: 3.16 ng

RT: 21.68 min Scan# 3357

Delta R.T. 0.00 min

Lab File: BF095472.D

Acq: 26 May 2017 21:15

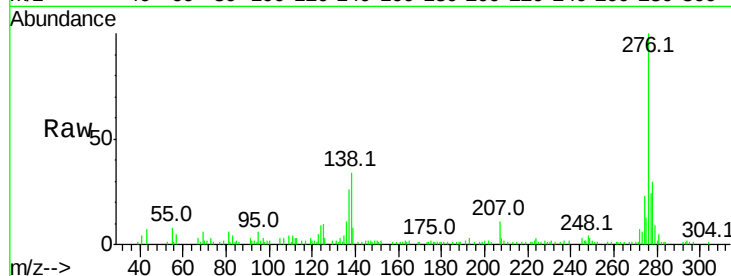
Tot Ion:278 Resp: 21397

Ion Ratio Lower Upper

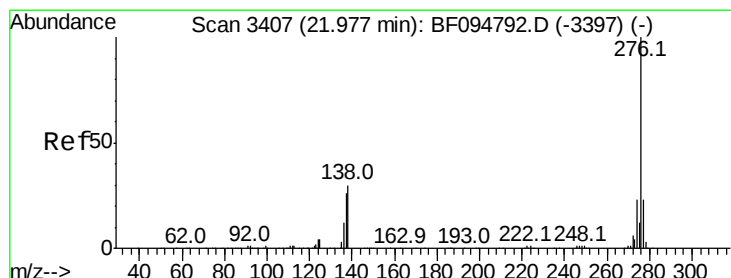
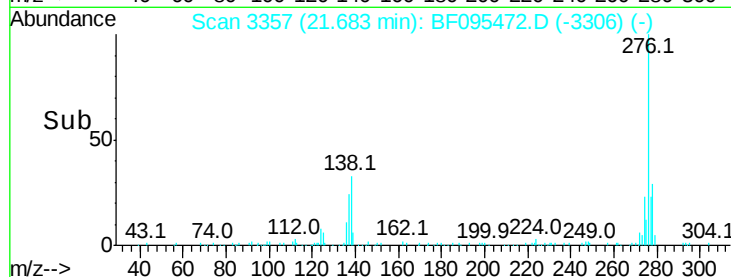
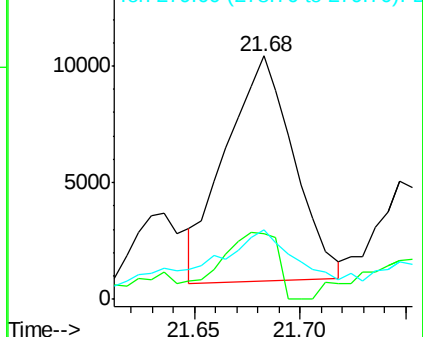
278 100

139 27.0 16.6 24.8#

279 28.7 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 9.79 ng

RT: 22.08 min Scan# 3424

Delta R.T. 0.01 min

Lab File: BF095472.D

Acq: 26 May 2017 21:15

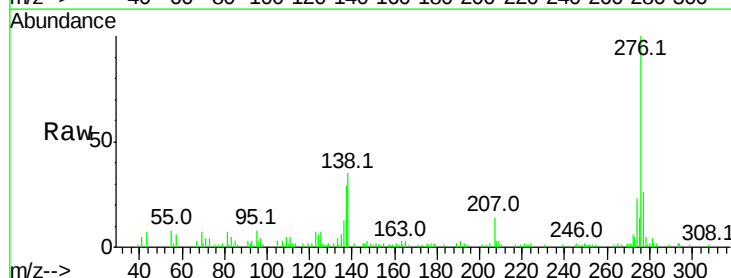
Tgt Ion:276 Resp: 65146

Ion Ratio Lower Upper

276 100

277 26.3 18.6 28.0

138 34.9 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

