

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\  
 Data File : BF099638.D  
 Acq On : 19 Oct 2017 00:56  
 Operator : SJ/JU  
 Sample : I5935-01 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 19 16:19:39 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 18 22:24:53 2017  
 Response via : Initial Calibration

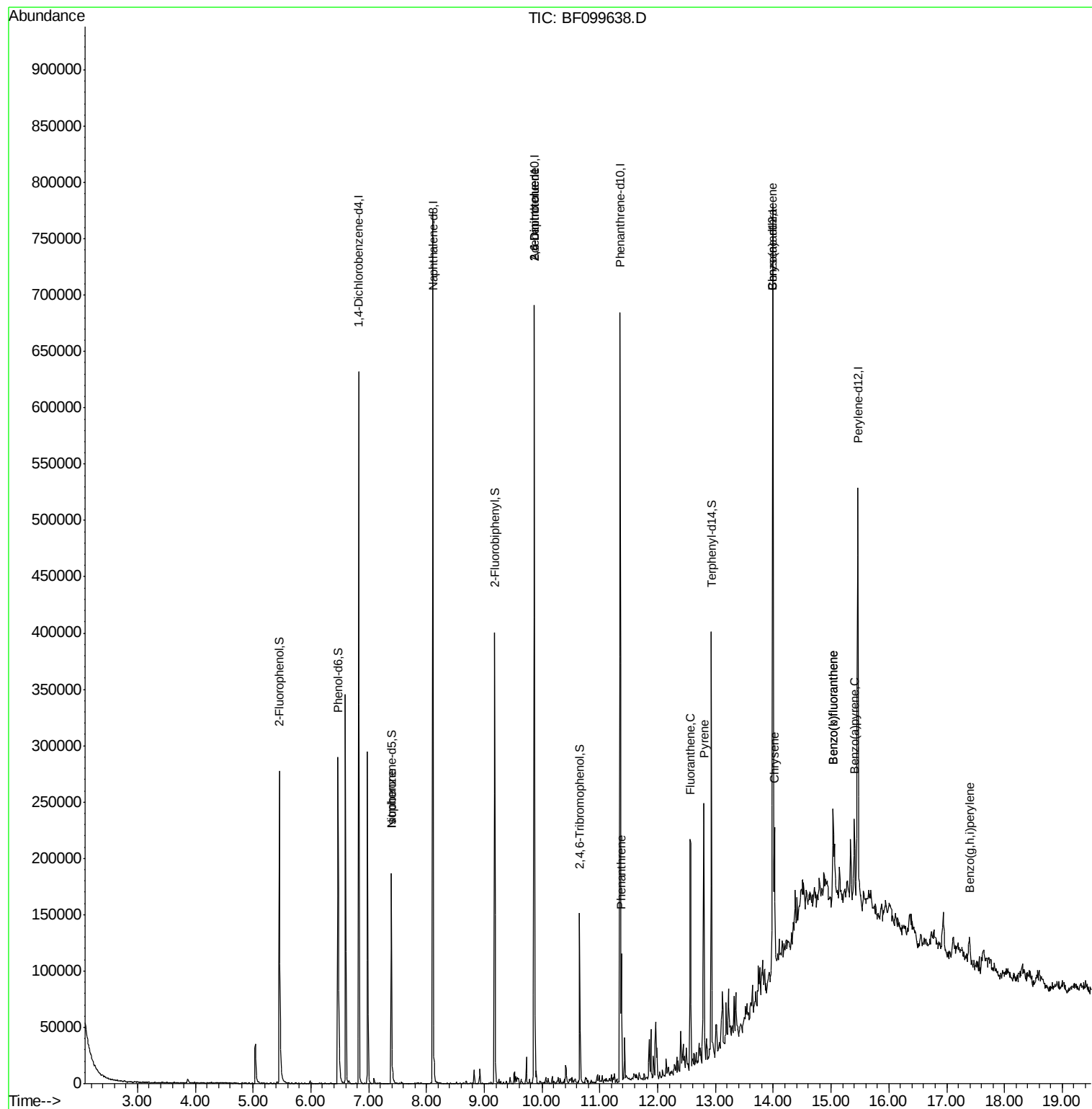
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 91107    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.11  | 136  | 333702   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.86  | 164  | 126898   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.35 | 188  | 220021   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 14.00 | 240  | 215721   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.46 | 264  | 164020   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 100997   | 17.65 | ng    | 0.00     |
| 7) Phenol-d6                | 6.47  | 99   | 117144   | 16.59 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 61362    | 11.79 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 17444    | 16.80 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.18  | 172  | 116572   | 15.34 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.93 | 244  | 103112   | 10.87 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.39  | 82   | 61361    | 5.704 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene      | 9.86  | 165  | 16293    | 7.814 | ng    | # 26     |
| 56) 2,4-Dinitrotoluene      | 9.86  | 165  | 16293    | 6.021 | ng    | # 24     |
| 70) Phenanthrene            | 11.37 | 178  | 38211    | 3.245 | ng    | 99       |
| 74) Fluoranthene            | 12.57 | 202  | 79858    | 6.696 | ng    | 99       |
| 77) Pyrene                  | 12.80 | 202  | 90815    | 5.521 | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.99 | 228  | 48527    | 3.715 | ng    | 96       |
| 82) Chrysene                | 14.02 | 228  | 43409    | 3.491 | ng    | 97       |
| 87) Benzo(b)fluoranthene    | 15.03 | 252  | 58761    | 5.827 | ng    | # 88     |
| 88) Benzo(k)fluoranthene    | 15.03 | 252  | 58761    | 5.899 | ng    | # 91     |
| 89) Benzo(a)pyrene          | 15.40 | 252  | 31596    | 3.413 | ng    | # 90     |
| 91) Benzo(a,h,i)perylene    | 17.39 | 276  | 17049    | 2.328 | ng    | # 92     |

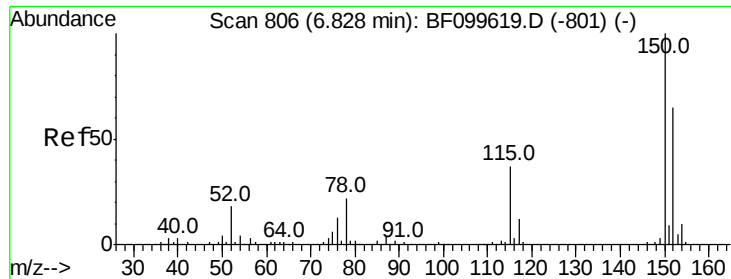
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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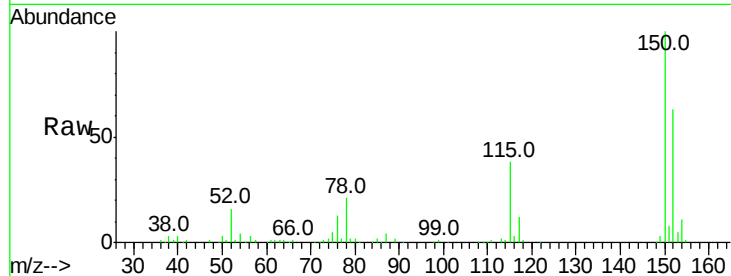


#1

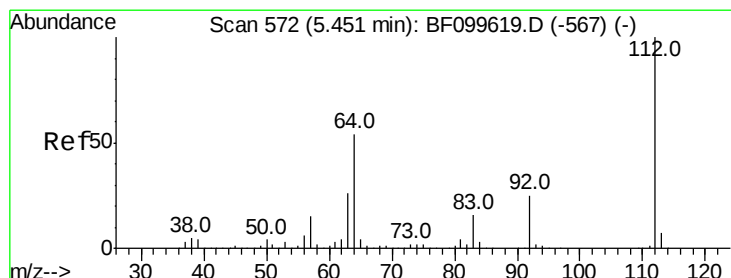
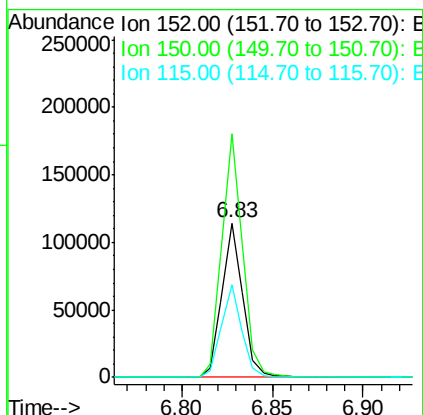
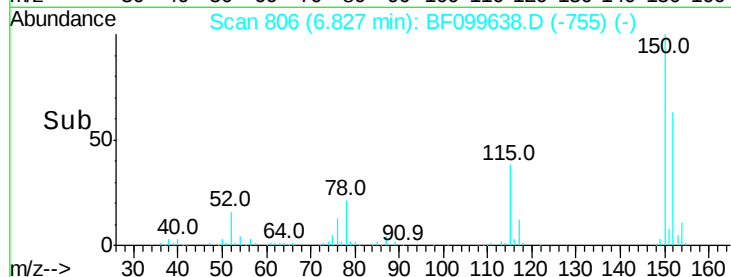
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 91107  
Ion Ratio Lower Upper  
152 100  
150 157.6 124.6 186.8  
115 59.9 50.1 75.1



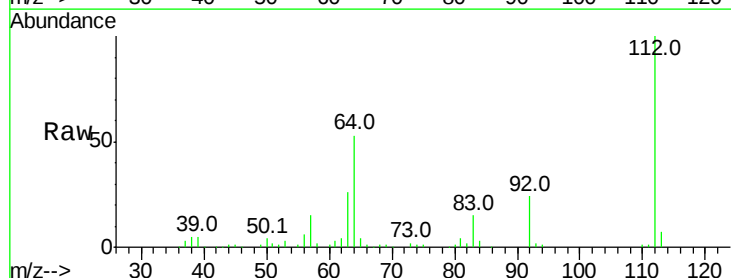
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



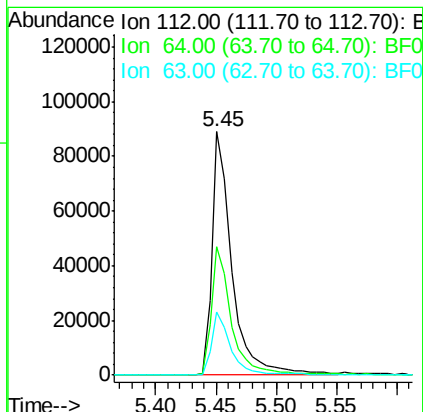
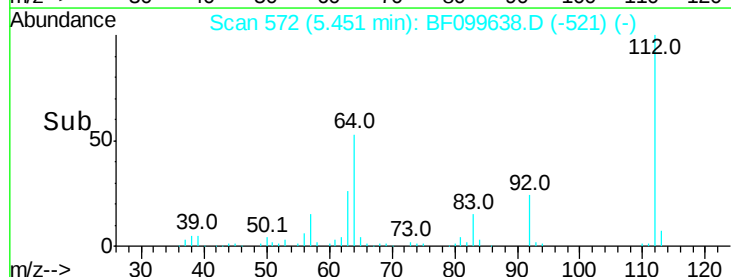
#5

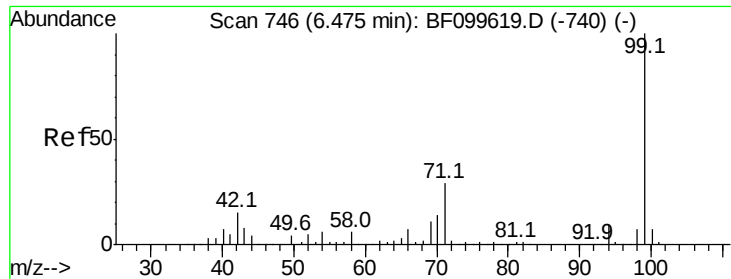
2-Fluorophenol  
Concen: 17.647 ng  
RT: 5.45 min Scan# 572  
Delta R.T. 0.00 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

Tgt Ion:112 Resp: 100997  
Ion Ratio Lower Upper  
112 100  
64 52.5 47.9 71.9  
63 26.0 23.7 35.5



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: 16.592 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

Instrument :

BNA\_F

ClientSampleId :

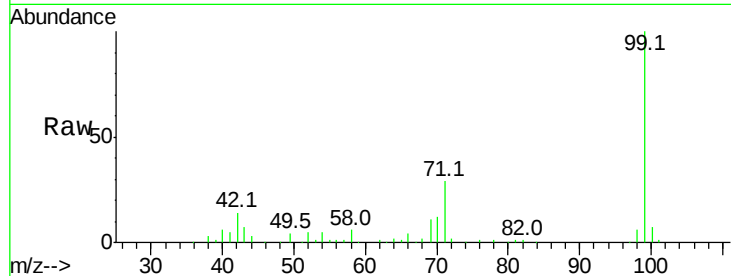
Tot Ion: 99 Resp: 117144

Ion Ratio Lower Upper

99 100

42 13.8 14.5 21.7#

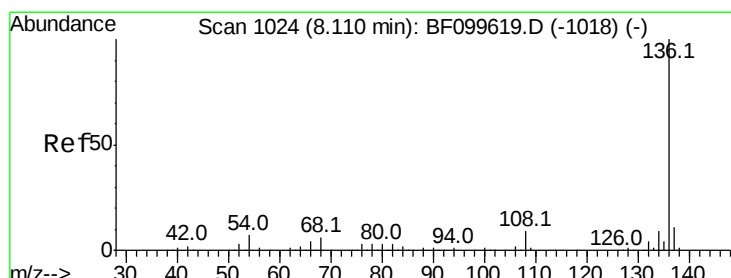
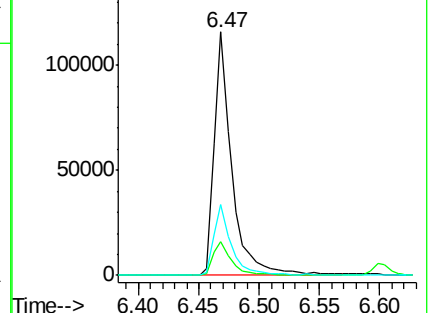
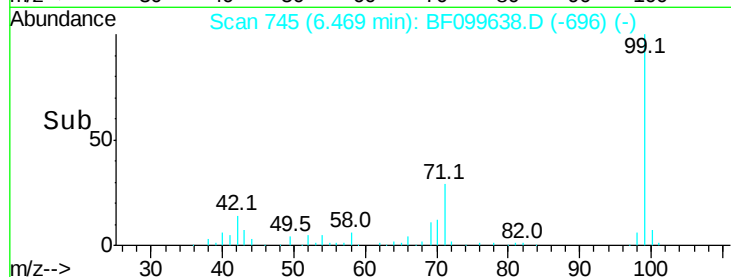
71 29.0 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

Tgt Ion:136 Resp: 333702

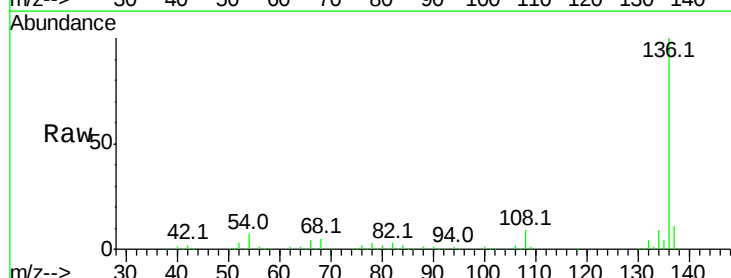
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 6.7 6.6 9.8

68 5.4 5.0 7.4

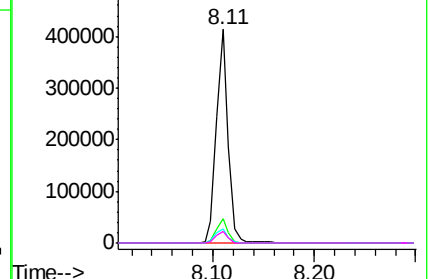
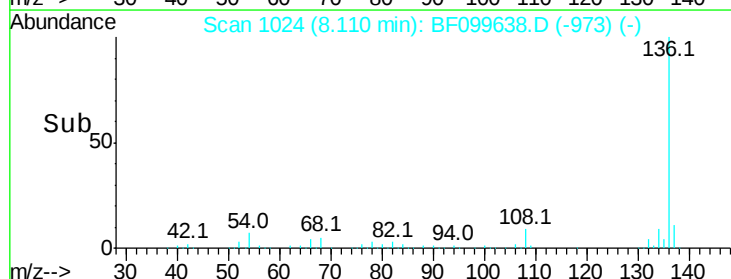


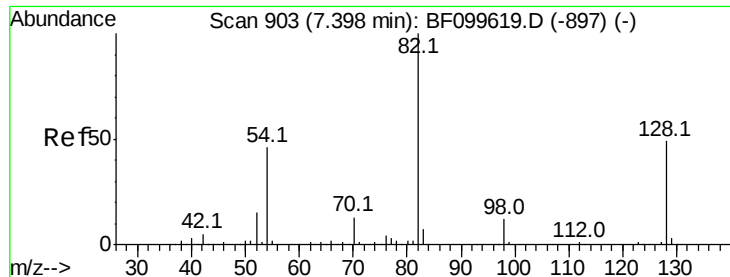
Abundance Ion 136.00 (135.70 to 136.70): E

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

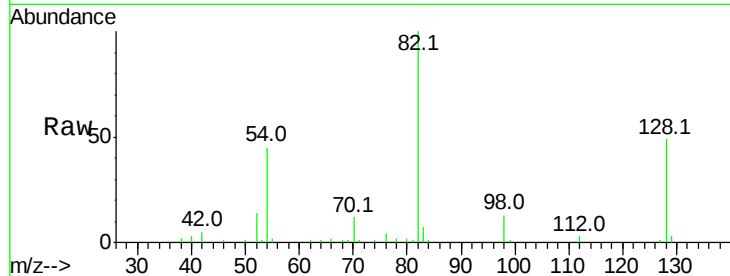




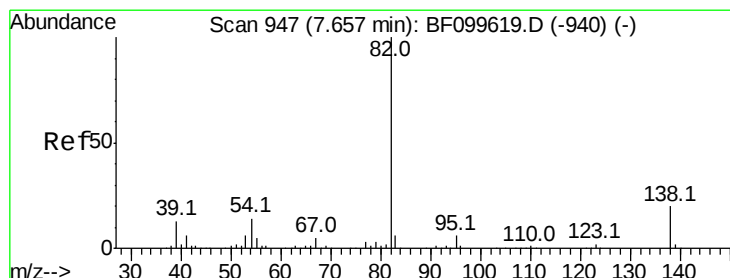
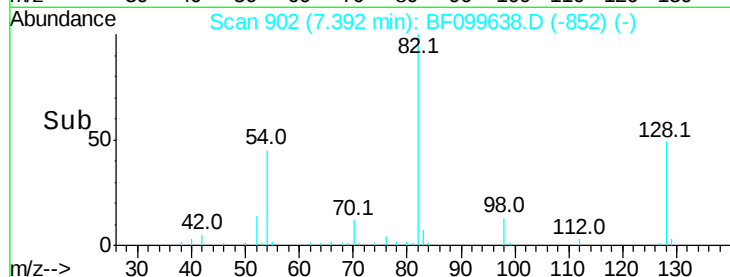
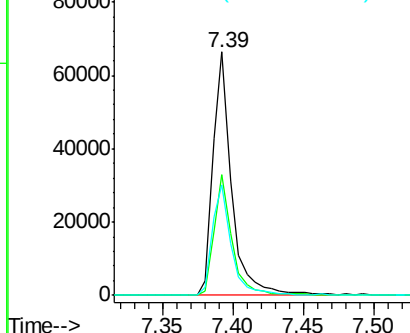
#23  
 Nitrobenzene-d5  
 Concen: 11.792 ng  
 RT: 7.39 min Scan# 902  
 Delta R.T. -0.01 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 61362  
 Ion Ratio Lower Upper  
 82 100  
 128 49.5 36.1 54.1  
 54 45.3 41.4 62.2

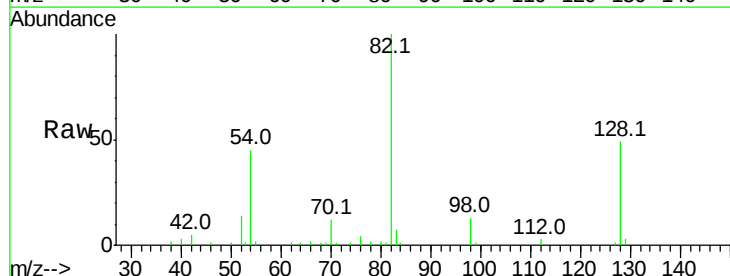


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

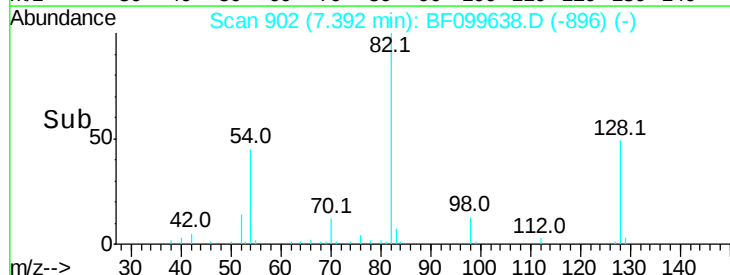
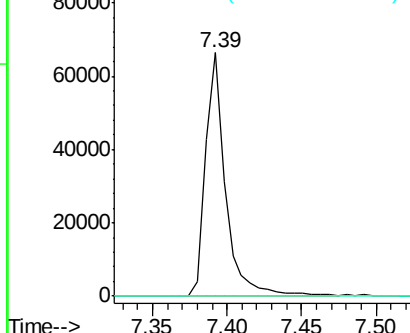


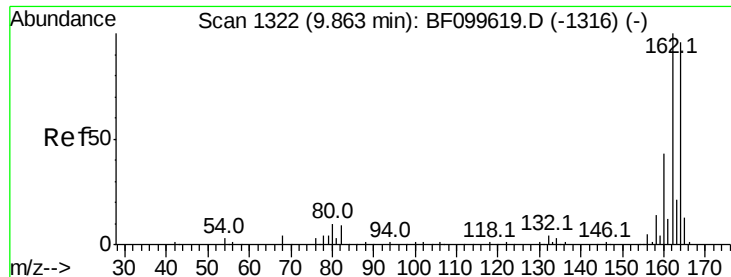
#25  
 Isophorone  
 Concen: 5.704 ng  
 RT: 7.39 min Scan# 902  
 Delta R.T. -0.26 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

Tgt Ion: 82 Resp: 61361  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.2 7.8#  
 138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 95.00 (94.70 to 95.70): BF0  
 Ion 138.00 (137.70 to 138.70): BF0

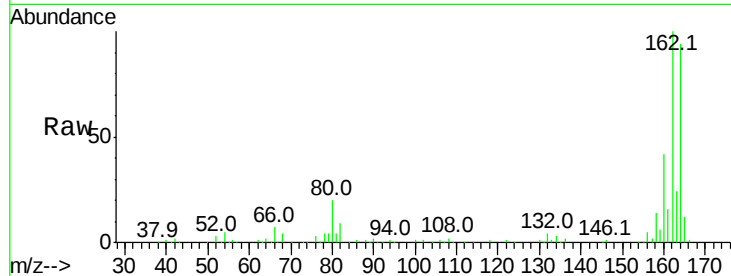




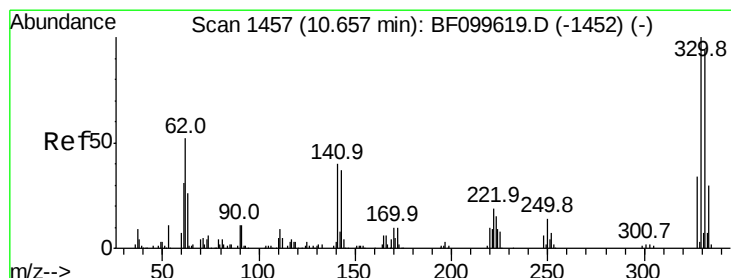
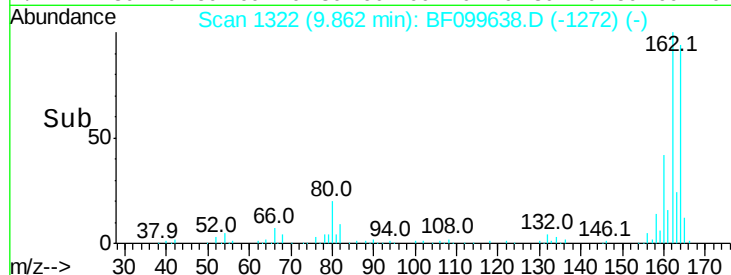
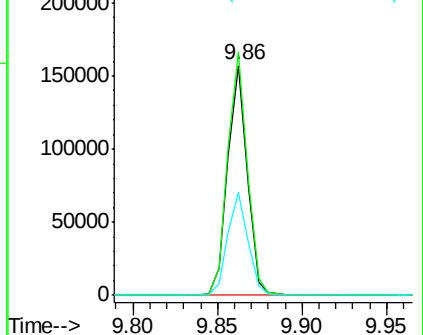
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.86 min Scan# 1322  
Delta R.T. -0.01 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 126898  
Ion Ratio Lower Upper  
164 100  
162 106.0 86.1 129.1  
160 44.8 38.3 57.5

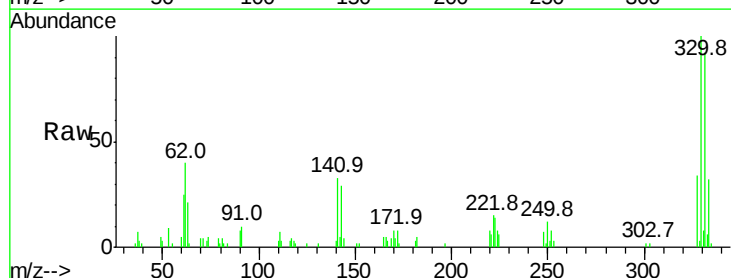


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

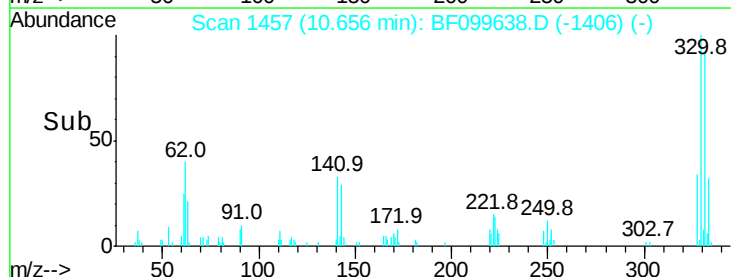
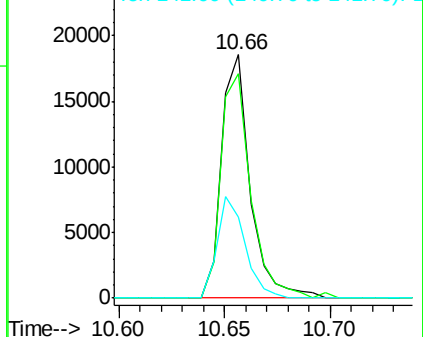


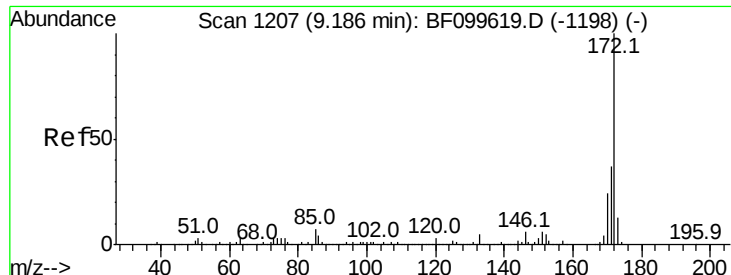
#41  
2,4,6-Tribromophenol  
Concen: 16.799 ng  
RT: 10.66 min Scan# 1457  
Delta R.T. 0.00 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

Tgt Ion:330 Resp: 17444  
Ion Ratio Lower Upper  
330 100  
332 96.5 77.0 115.6  
141 40.8 29.9 44.9



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

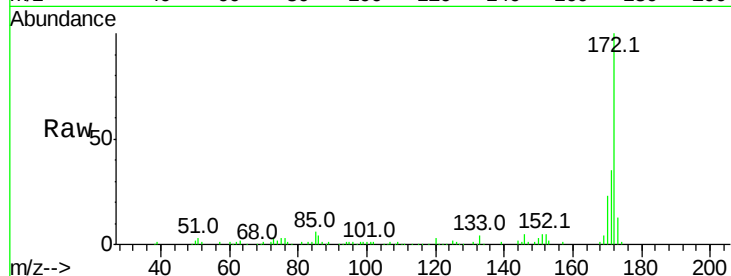




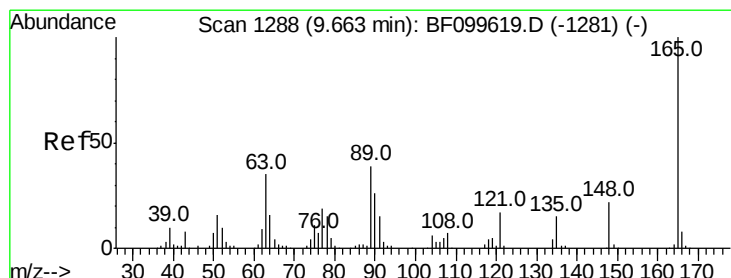
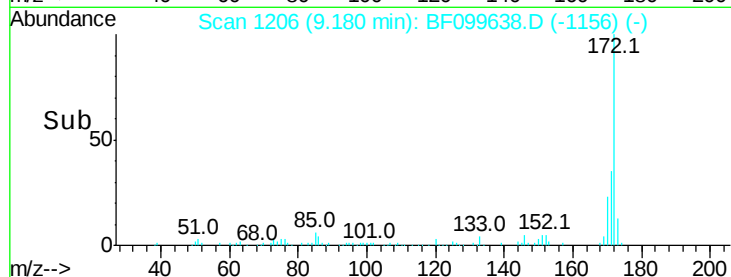
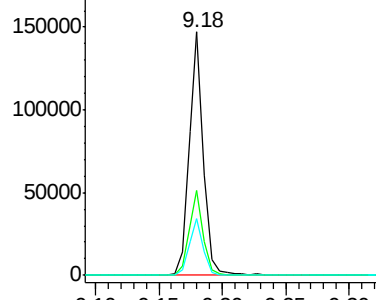
#44  
 2-Fluorobiphenyl  
 Concen: 15.336 ng  
 RT: 9.18 min Scan# 1206  
 Delta R.T. -0.01 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 116572  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 29.7 44.5  
 170 23.1 19.6 29.4

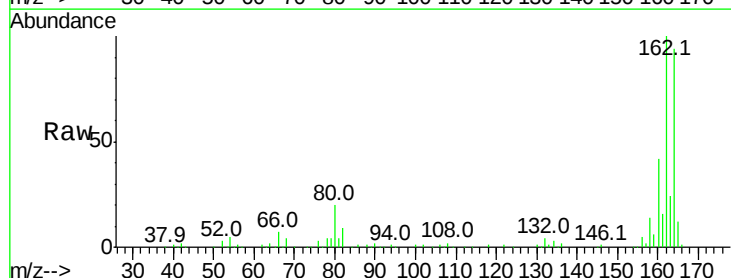


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

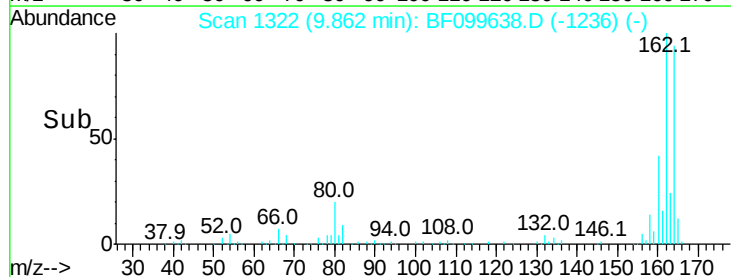
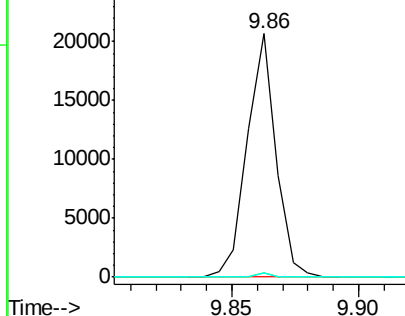


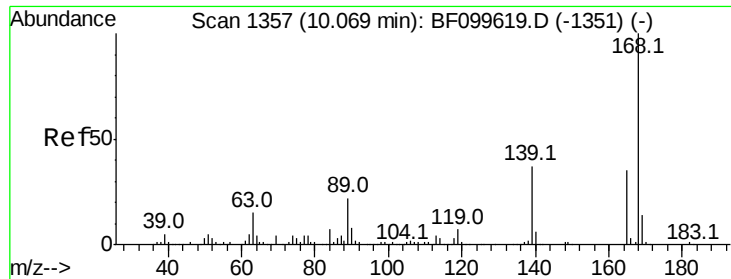
#50  
 2,6-Dinitrotoluene  
 Concen: 7.814 ng  
 RT: 9.86 min Scan# 1322  
 Delta R.T. 0.21 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

Tgt Ion:165 Resp: 16293  
 Ion Ratio Lower Upper  
 165 100  
 63 1.8 44.7 67.1#  
 89 1.8 44.0 66.0#



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

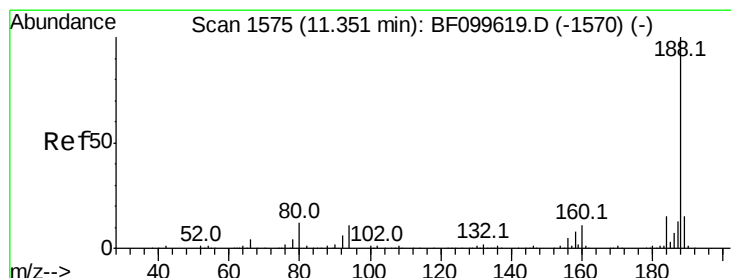
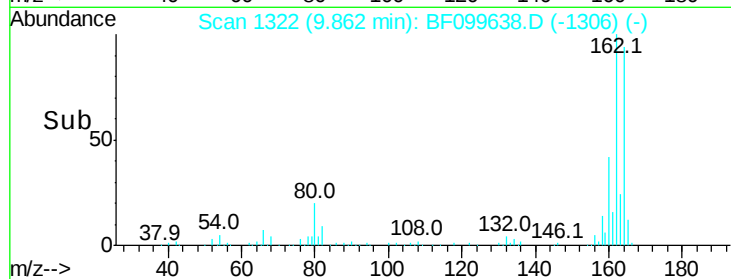
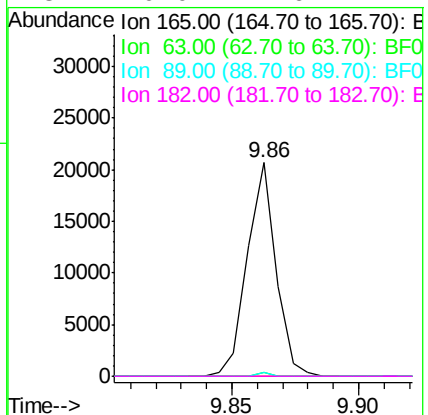
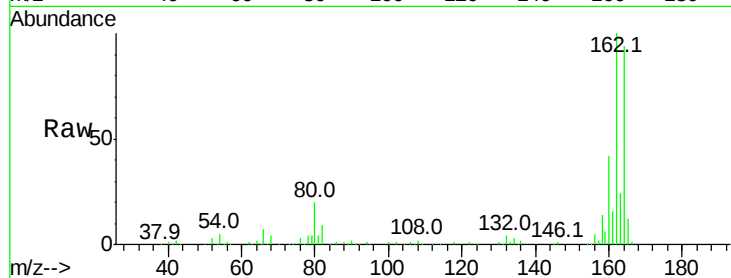




#56  
 2,4-Dinitrotoluene  
 Concen: 6.021 ng  
 RT: 9.86 min Scan# 1322  
 Delta R.T. -0.21 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

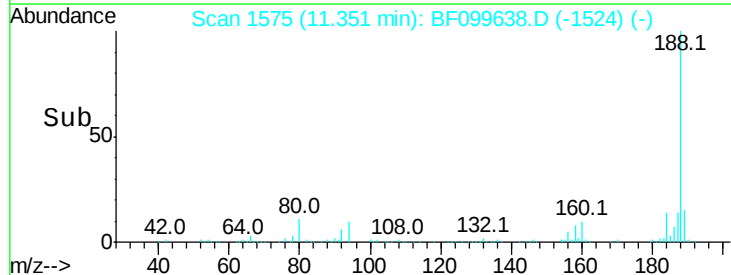
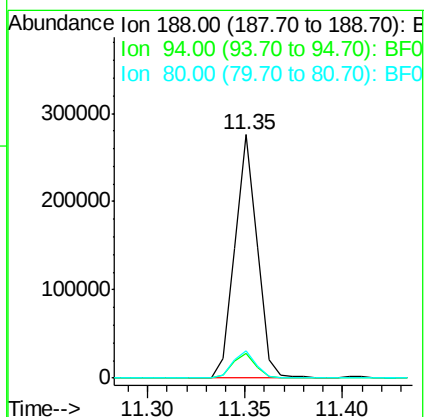
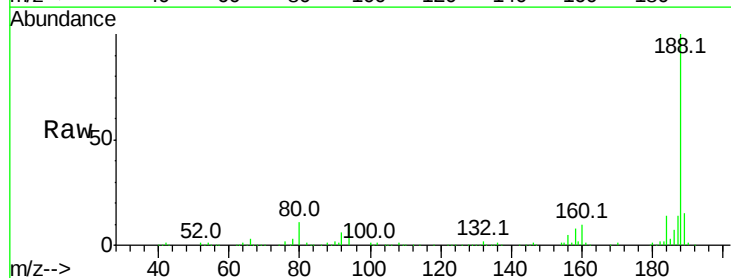
Instrument :  
 BNA\_F  
 ClientSampleId :

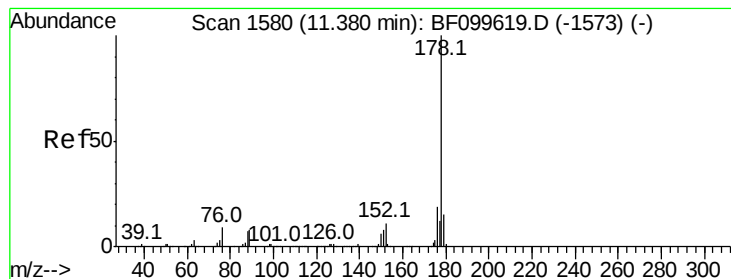
Tot Ion:165 Resp: 16293  
 Ion Ratio Lower Upper  
 165 100  
 63 1.8 36.4 54.6#  
 89 1.8 57.8 86.6#  
 182 0.0 1.6 2.4#



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.35 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

Tgt Ion:188 Resp: 220021  
 Ion Ratio Lower Upper  
 188 100  
 94 10.0 8.5 12.7  
 80 11.4 9.2 13.8





#70

Phenanthrene

Concen: 3.245 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

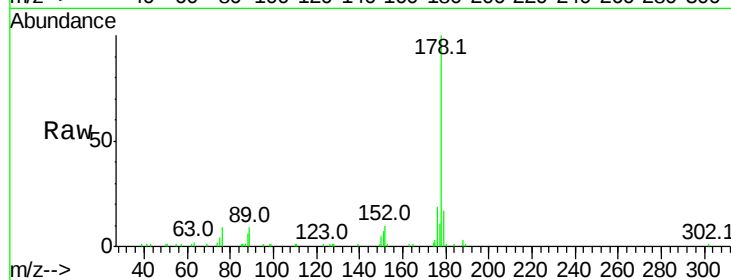
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 38211

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.9  | 15.8  | 23.8  |
| 179 | 16.6  | 13.0  | 19.6  |

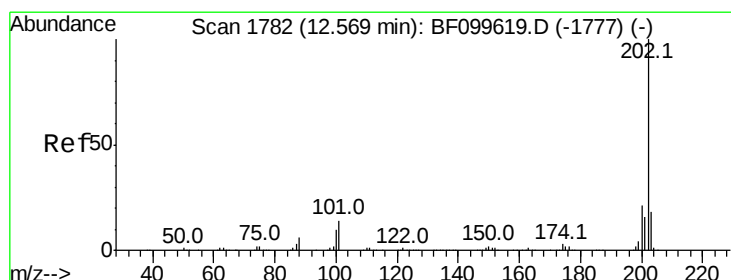
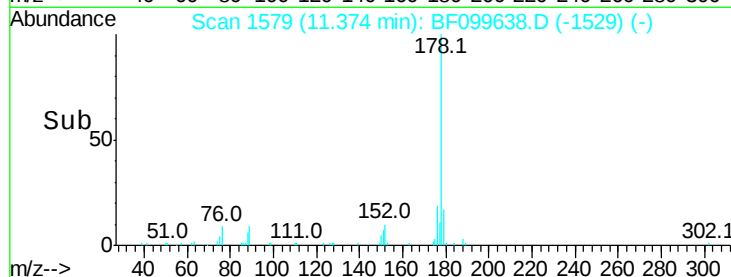
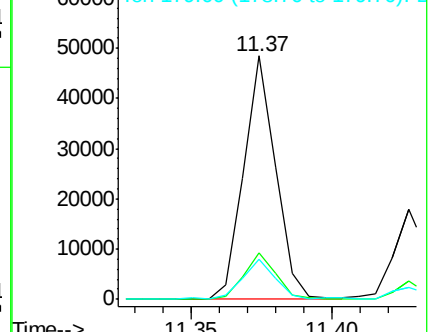


Abundance

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: 6.696 ng

RT: 12.57 min Scan# 1782

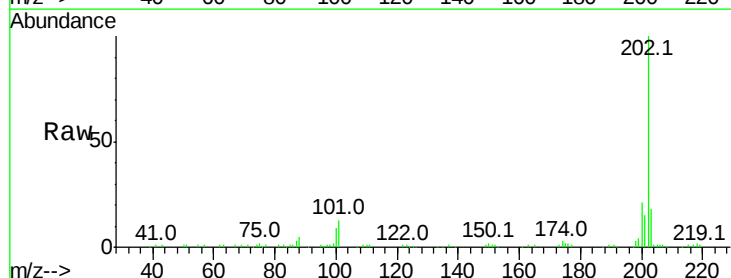
Delta R.T. 0.00 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

Tgt Ion:202 Resp: 79858

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.0  | 0.0   | 34.1  |
| 203 | 18.1  | 0.0   | 38.1  |

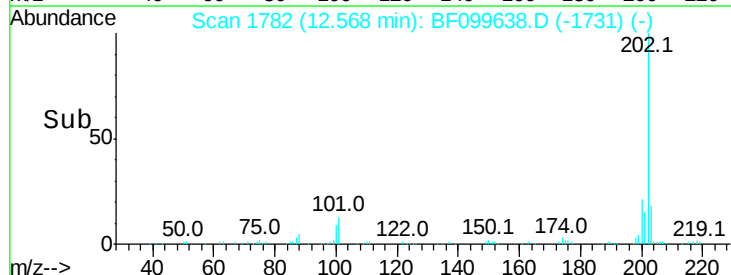
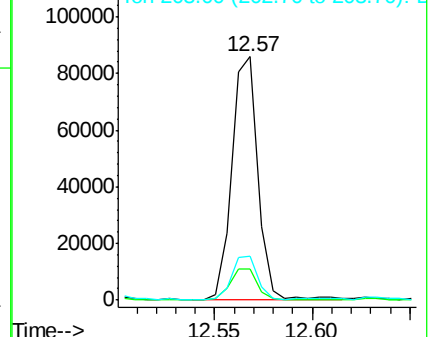


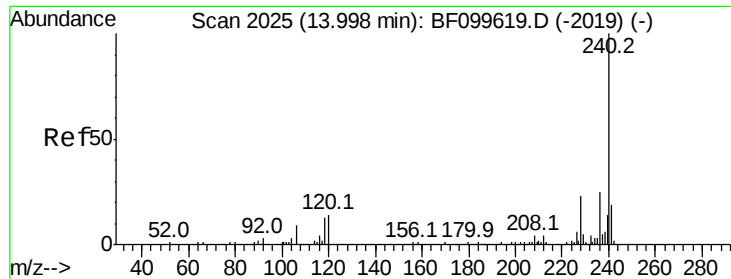
Abundance

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: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

Instrument :

BNA\_F

ClientSampleId :

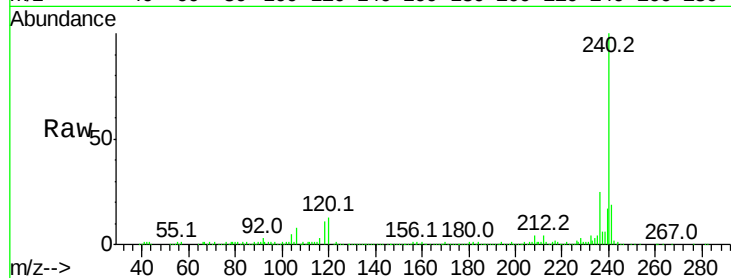
Tot Ion:240 Resp: 215721

Ion Ratio Lower Upper

240 100

120 12.9 9.5 14.3

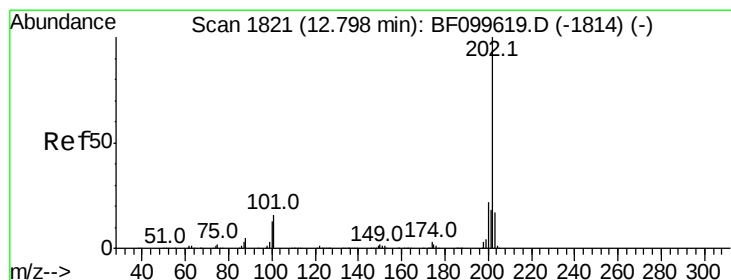
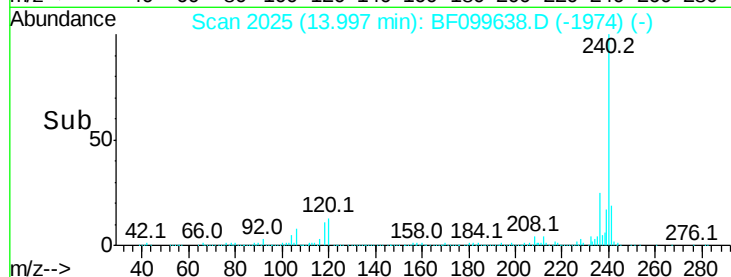
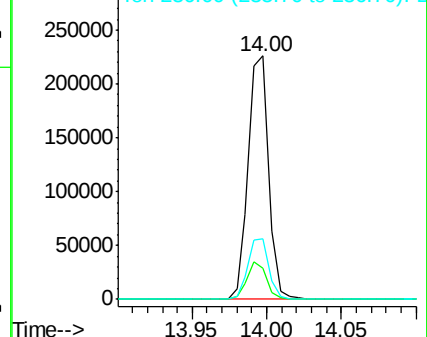
236 25.1 20.7 31.1



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: 5.521 ng

RT: 12.80 min Scan# 1821

Delta R.T. 0.00 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

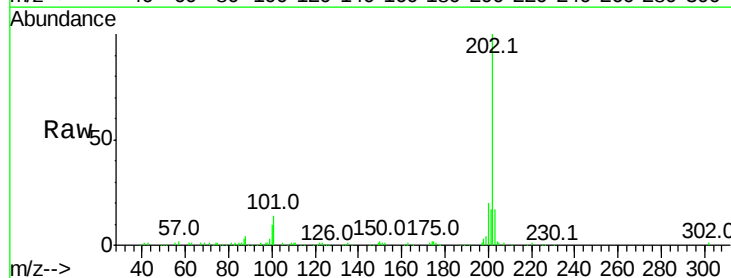
Tgt Ion:202 Resp: 90815

Ion Ratio Lower Upper

202 100

200 20.2 17.4 26.2

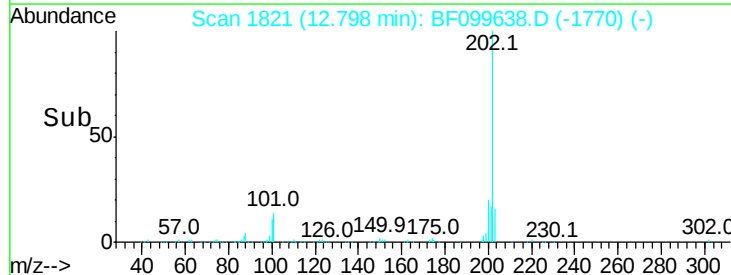
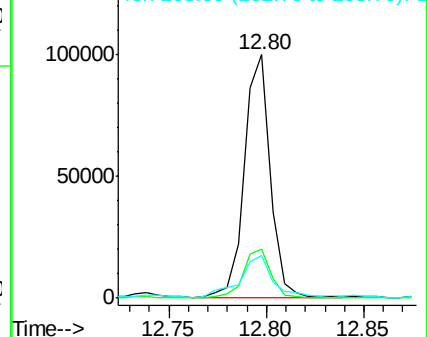
203 17.4 14.3 21.5

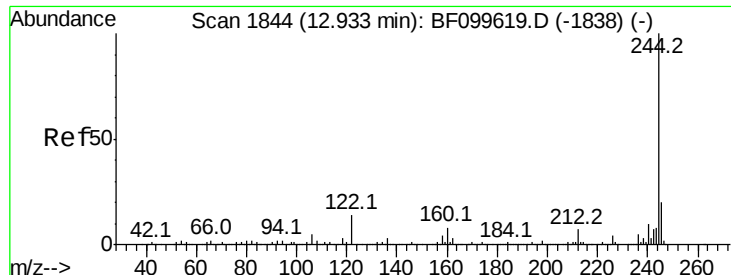


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

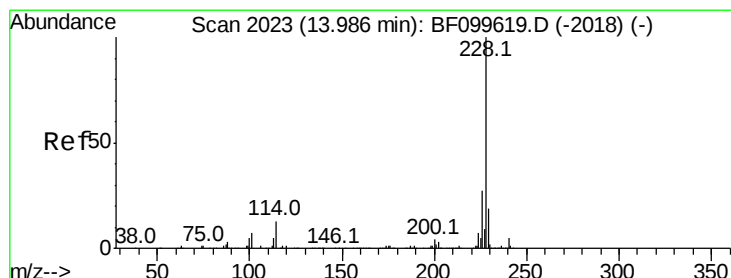
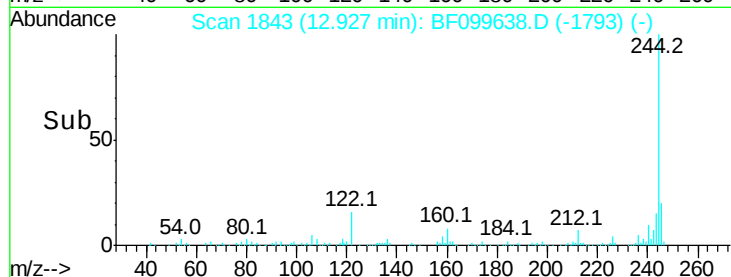
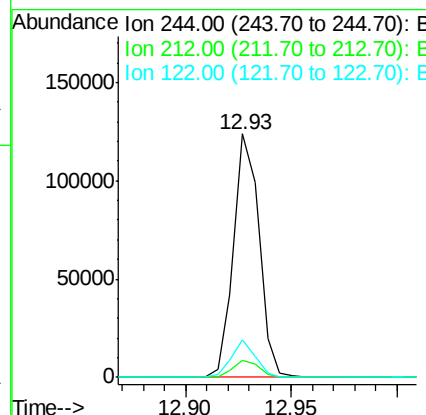
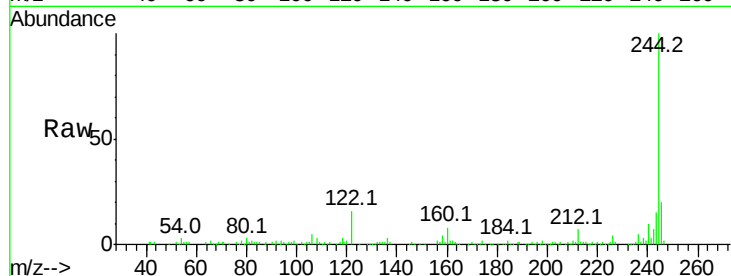




#78  
 Terphenyl-d14  
 Concen: 10.870 ng  
 RT: 12.93 min Scan# 1843  
 Delta R.T. -0.01 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

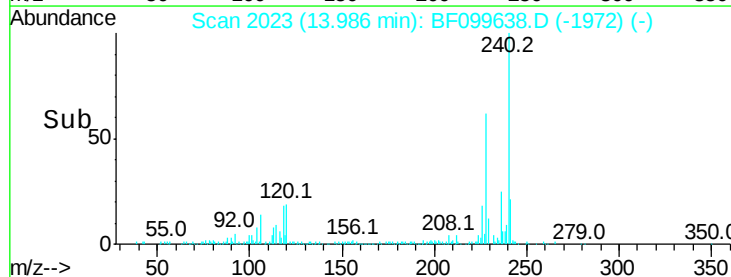
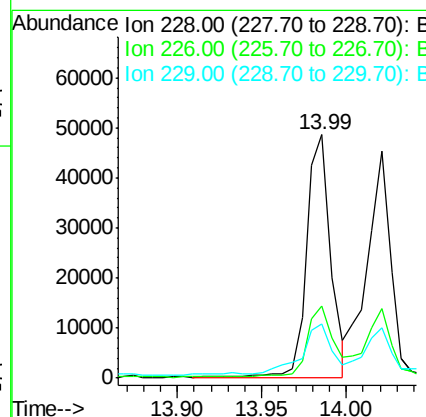
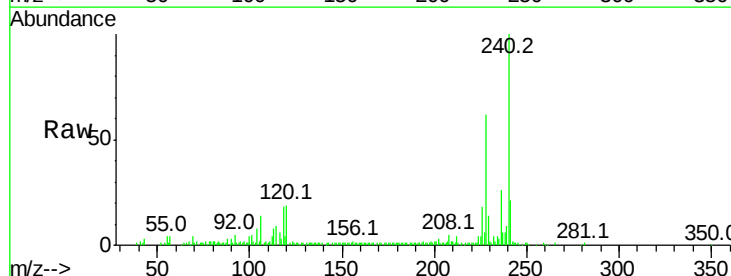
Instrument :  
 BNA\_F  
 ClientSampleId :

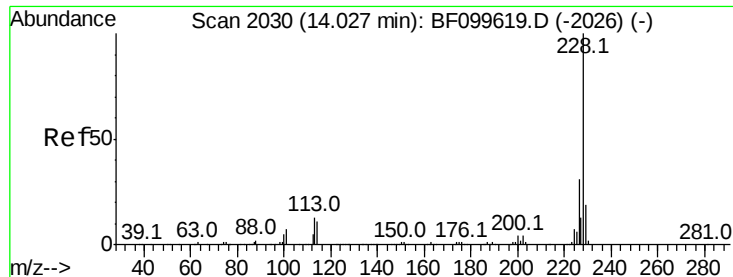
Tot Ion:244 Resp: 103112  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.4 8.0  
 122 15.6 11.0 16.4



#80  
 Benzo(a)anthracene  
 Concen: 3.715 ng  
 RT: 13.99 min Scan# 2023  
 Delta R.T. -0.00 min  
 Lab File: BF099638.D  
 Acq: 19 Oct 2017 00:56

Tgt Ion:228 Resp: 48527  
 Ion Ratio Lower Upper  
 228 100  
 226 29.6 22.6 33.8  
 229 22.1 15.8 23.6

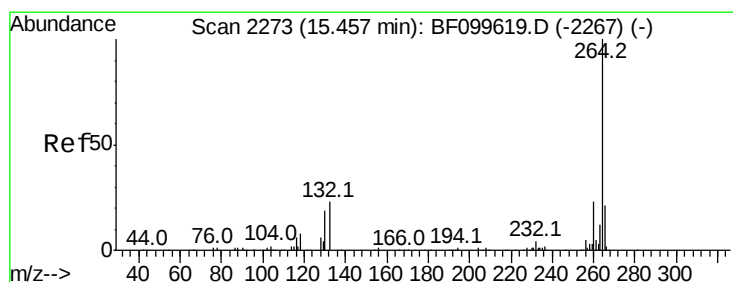
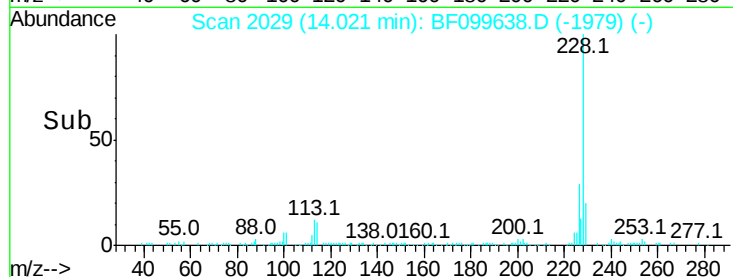
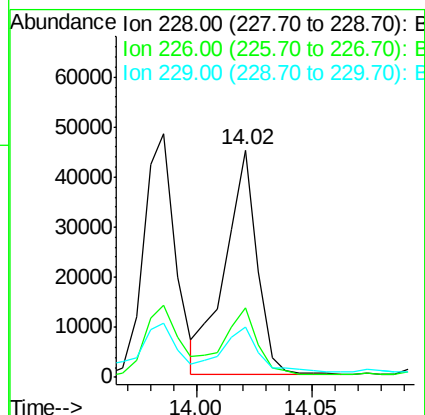
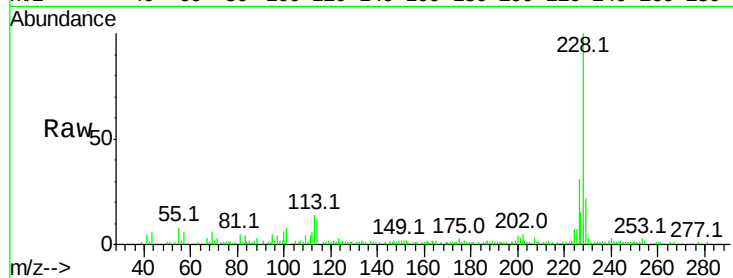




#82  
Chrysene  
Concen: 3.491 ng  
RT: 14.02 min Scan# 2029  
Delta R.T. -0.01 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

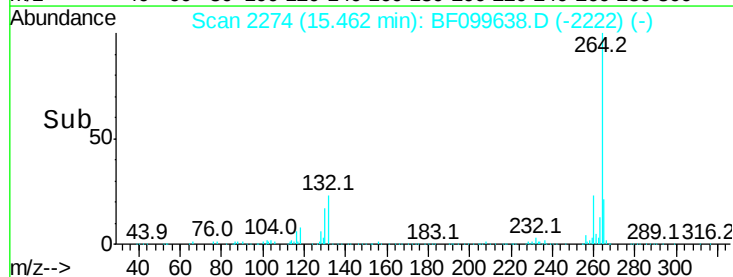
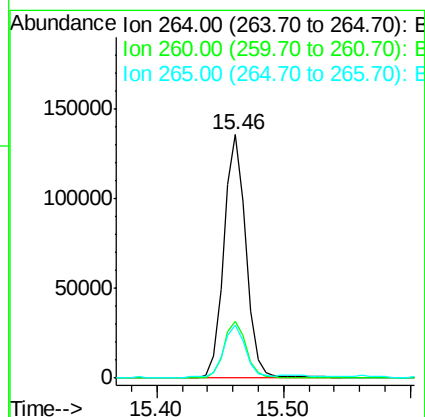
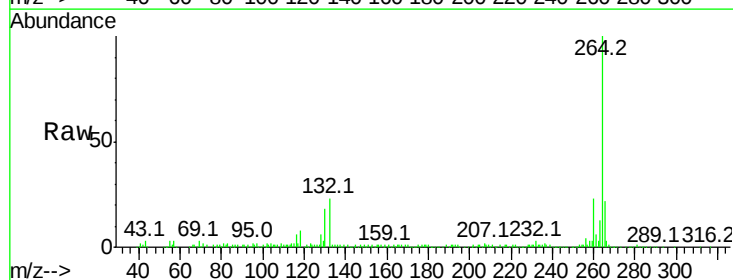
Instrument :  
BNA\_F  
ClientSampleId :

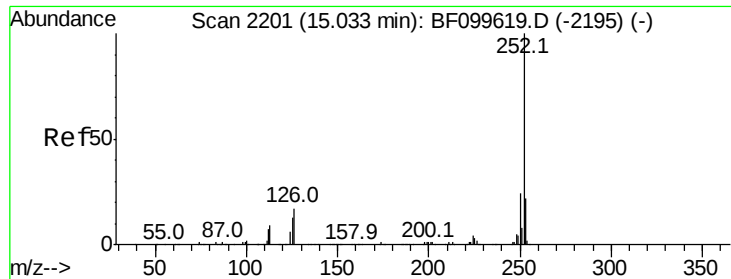
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 25.0  | 37.6  |
| 229     | 22.4  | 16.2  | 24.4  |



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.01 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.8  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 5.827 ng

RT: 15.03 min Scan# 2201

Delta R.T. 0.00 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

Instrument :

BNA\_F

ClientSampleId :

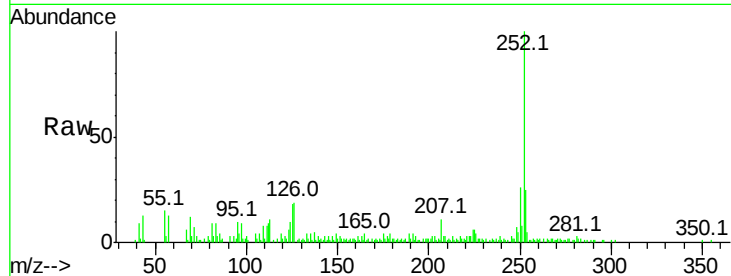
Tot Ion:252 Resp: 58761

Ion Ratio Lower Upper

252 100

253 25.4 17.0 25.6

125 18.1 9.0 13.6#

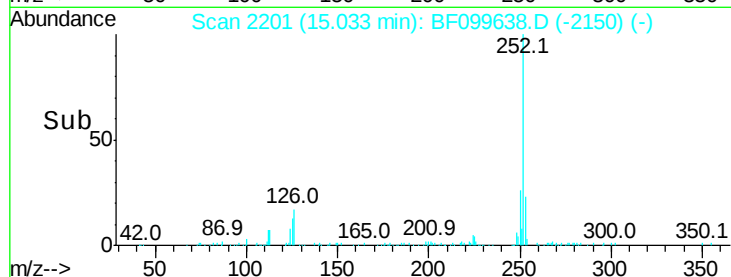


Abundance Ion 252.00 (251.70 to 252.70): E

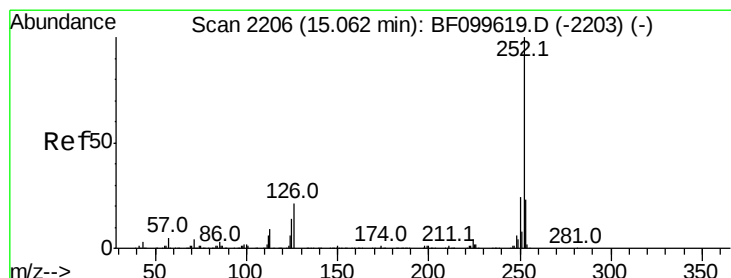
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time-->



Time-->



#88

Benzo(k)fluoranthene

Concen: 5.899 ng

RT: 15.03 min Scan# 2201

Delta R.T. -0.03 min

Lab File: BF099638.D

Acq: 19 Oct 2017 00:56

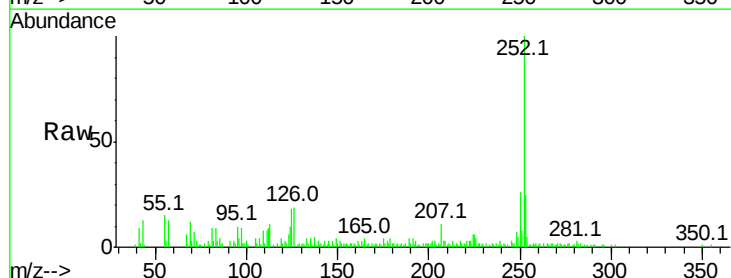
Tgt Ion:252 Resp: 58761

Ion Ratio Lower Upper

252 100

253 25.4 17.9 26.9

125 18.1 10.2 15.2#

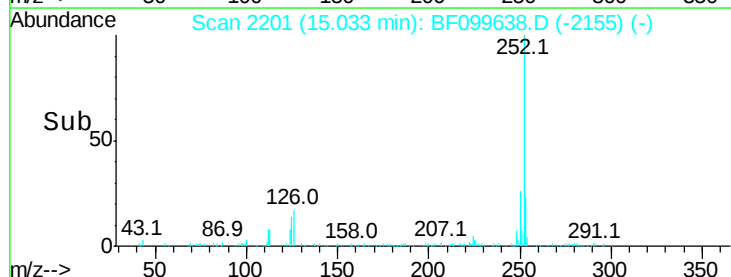


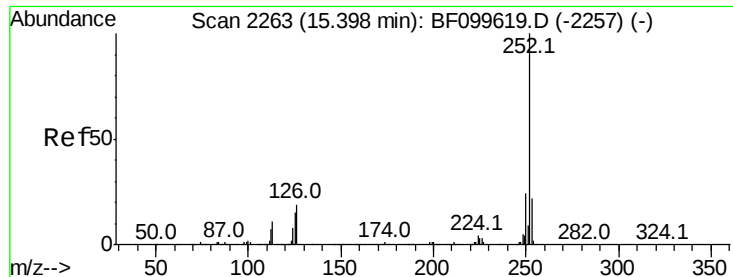
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

Time-->

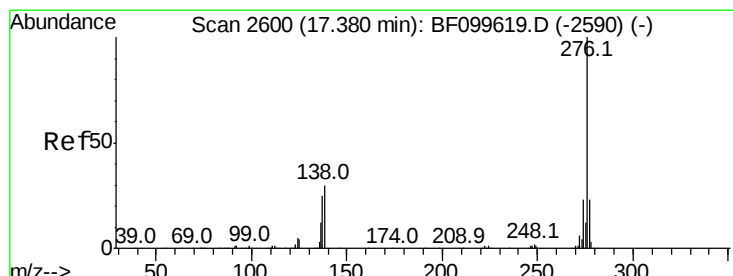
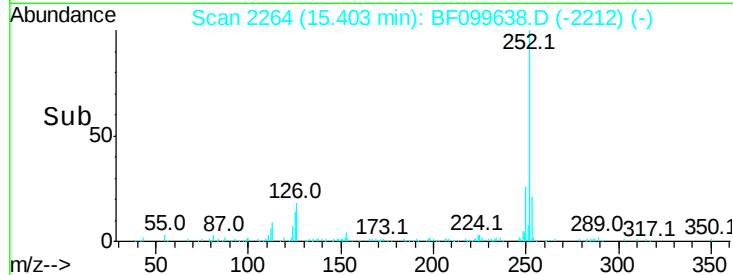
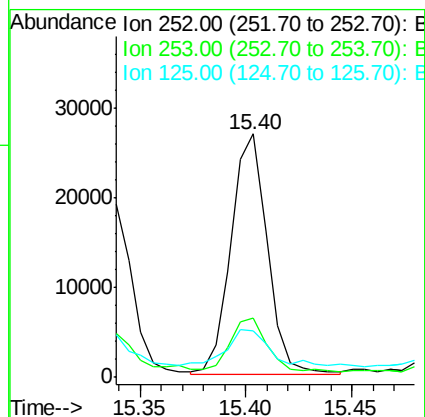
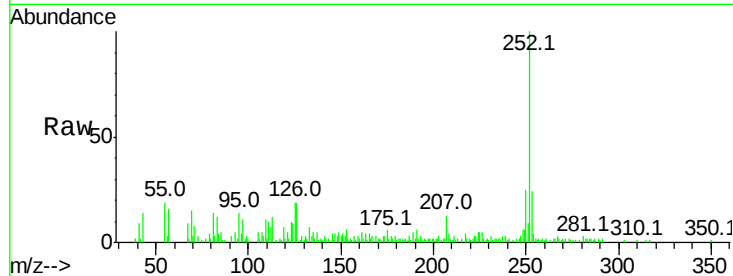




#89  
Benzo(a)pyrene  
Concen: 3.413 ng  
RT: 15.40 min Scan# 2264  
Delta R.T. 0.01 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 31596  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.1 25.7  
125 19.0 9.8 14.6#



#91  
Benzo(g,h,i)perylene  
Concen: 2.328 ng  
RT: 17.39 min Scan# 2602  
Delta R.T. 0.02 min  
Lab File: BF099638.D  
Acq: 19 Oct 2017 00:56

Tgt Ion:276 Resp: 17049  
Ion Ratio Lower Upper  
276 100  
277 27.4 17.9 26.9#  
138 30.4 21.8 32.8

