

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101217\  
 Data File : BF099406.D  
 Acq On : 12 Oct 2017 20:32  
 Operator : SJ/JU  
 Sample : I5729-06 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 13 00:55:01 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 11 16:25:21 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 117081   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 461104   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.89  | 164  | 180825   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.37 | 188  | 250817   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.02 | 240  | 202450   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.49 | 264  | 176412   | 20.00 | ng    | 0.01     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.47  | 112 | 159941 | 21.75 | ng | 0.00  |
| 7) Phenol-d6                | 6.48  | 99  | 191691 | 21.13 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.41  | 82  | 107229 | 14.91 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330 | 26129  | 17.66 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 9.20  | 172 | 207561 | 19.16 | ng | 0.00  |
| 78) Terphenyl-d14           | 12.95 | 244 | 123165 | 13.84 | ng | 0.00  |

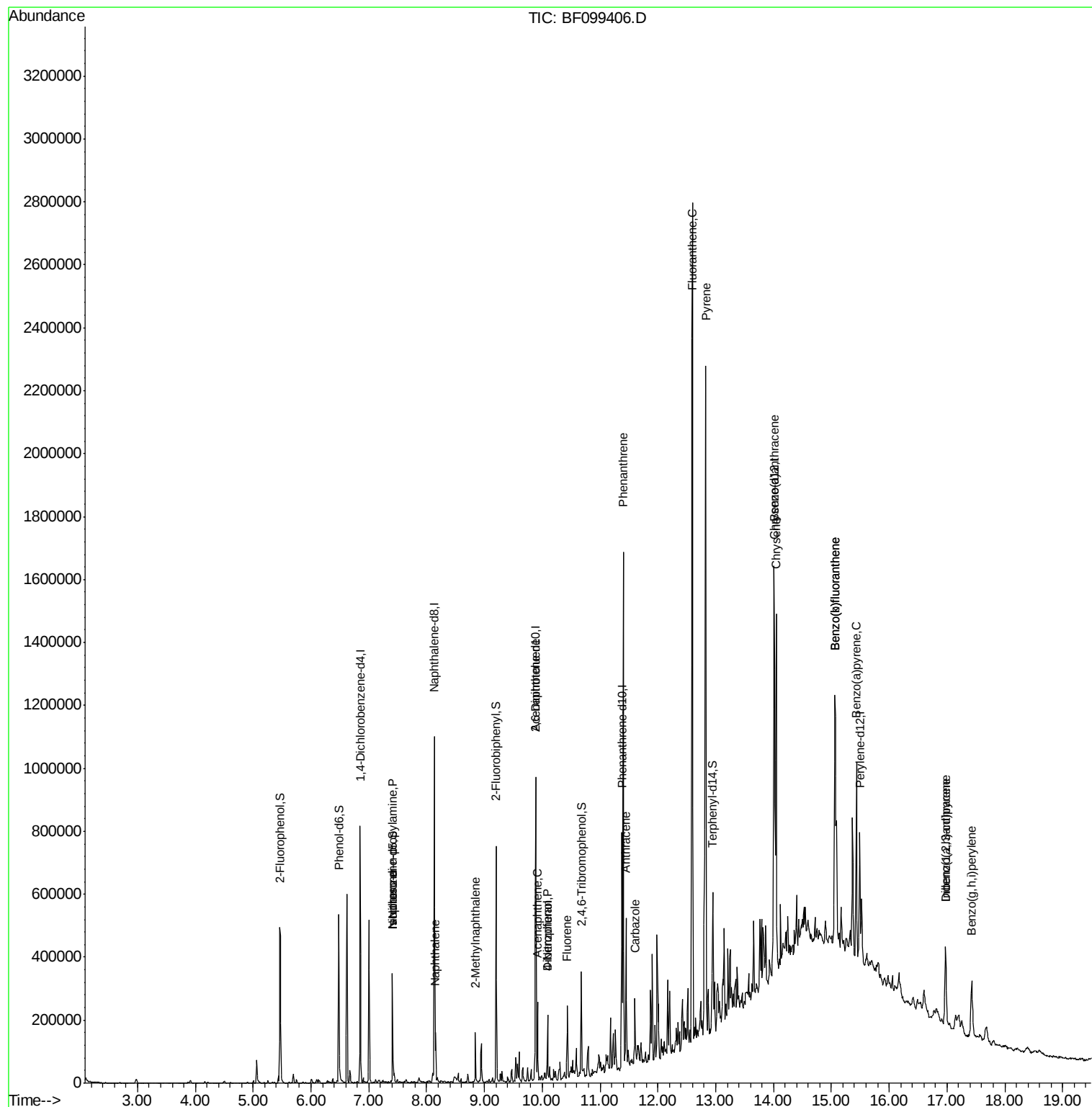
|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70  | 14555   | 2.51   | ng | # 79 |
| 25) Isophorone                 | 7.41  | 82  | 107227  | 7.21   | ng | # 64 |
| 31) Naphthalene                | 8.16  | 128 | 70528   | 3.26   | ng | 98   |
| 37) 2-Methylnaphthalene        | 8.85  | 142 | 39883   | 2.83   | ng | 99   |
| 50) 2,6-Dinitrotoluene         | 9.89  | 165 | 24692   | 8.31   | ng | # 26 |
| 51) Acenaphthene               | 9.92  | 154 | 51585   | 4.56   | ng | 100  |
| 54) Dibenzofuran               | 10.09 | 168 | 70470   | 4.68   | ng | 98   |
| 55) 4-Nitrophenol              | 10.09 | 139 | 26905   | 9.18   | ng | # 10 |
| 57) Fluorene                   | 10.43 | 166 | 55697   | 4.60   | ng | 98   |
| 70) Phenanthrene               | 11.40 | 178 | 659378  | 49.11  | ng | 99   |
| 71) Anthracene                 | 11.45 | 178 | 166522  | 12.12  | ng | 98   |
| 72) Carbazole                  | 11.60 | 167 | 79052   | 5.88   | ng | 99   |
| 74) Fluoranthene               | 12.60 | 202 | 1127019 | 82.90  | ng | 98   |
| 77) Pyrene                     | 12.83 | 202 | 969481  | 62.80  | ng | 100  |
| 80) Benzo(a)anthracene         | 14.01 | 228 | 475747  | 38.81  | ng | 99   |
| 82) Chrysene                   | 14.04 | 228 | 403748  | 34.59  | ng | 97   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.97 | 276 | 147056  | 15.75  | ng | 97   |
| 87) Benzo(b)fluoranthene       | 15.06 | 252 | 610226  | 56.26  | ng | # 94 |
| 88) Benzo(k)fluoranthene       | 15.06 | 252 | 610226  | 56.96  | ng | # 97 |
| 89) Benzo(a)pyrene             | 15.43 | 252 | 273860  | 27.51  | ng | # 93 |
| 90) Dibenzo(a,h)anthracene     | 16.98 | 278 | 37093   | 4.66   | ng | # 86 |
| 91) Benzo(g,h,i)perylene       | 17.43 | 276 | 136187  | 17.29  | ng | 95   |

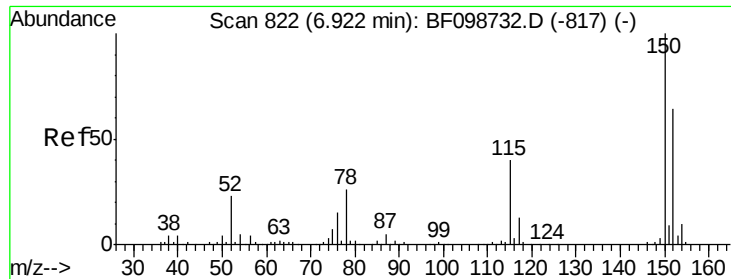
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101217\  
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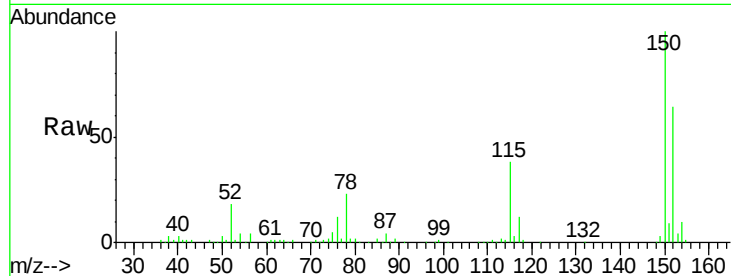


#1

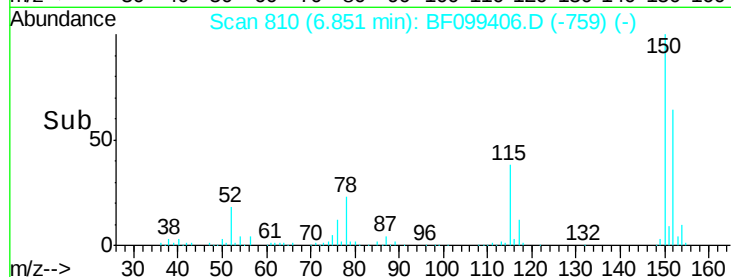
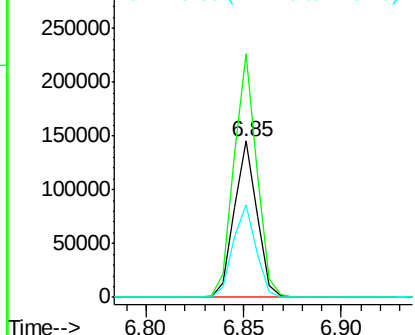
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.85 min Scan# 810  
Delta R.T. 0.00 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 117081  
Ion Ratio Lower Upper  
152 100  
150 156.1 124.6 186.8  
115 59.3 50.1 75.1



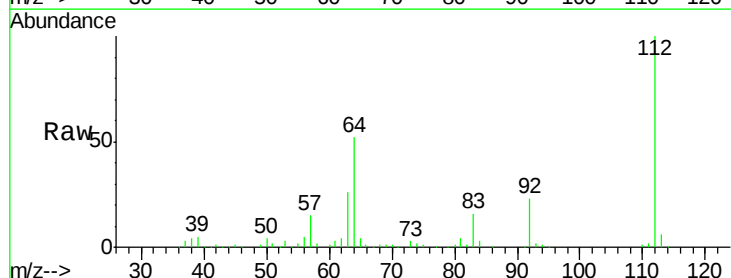
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



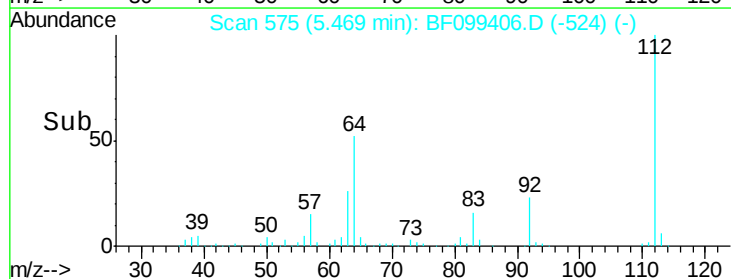
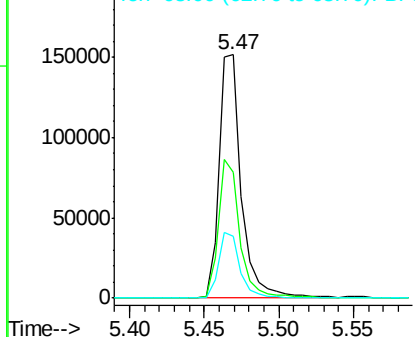
#5

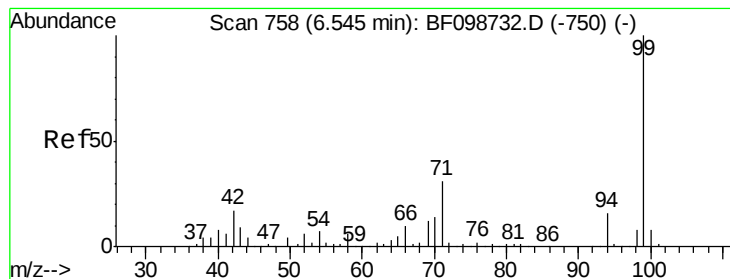
2-Fluorophenol  
Concen: 21.75 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.00 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Tgt Ion:112 Resp: 159941  
Ion Ratio Lower Upper  
112 100  
64 51.9 47.9 71.9  
63 25.6 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: 21.13 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

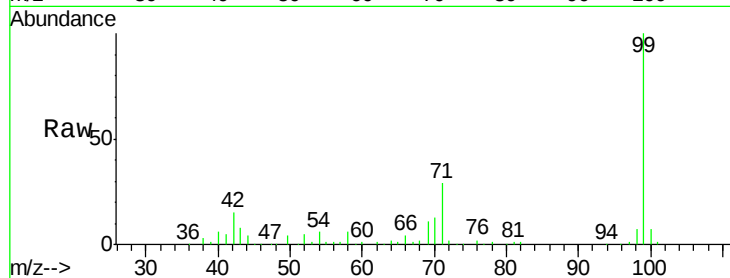
Tot Ion: 99 Resp: 191691

Ion Ratio Lower Upper

99 100

42 14.9 14.5 21.7

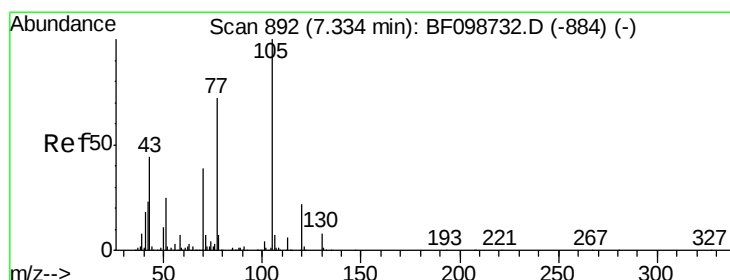
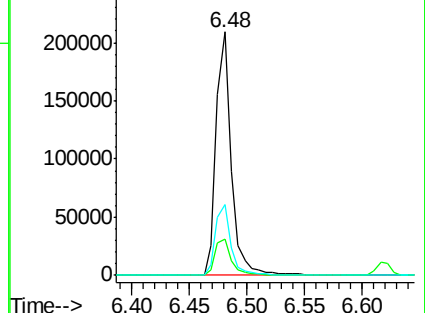
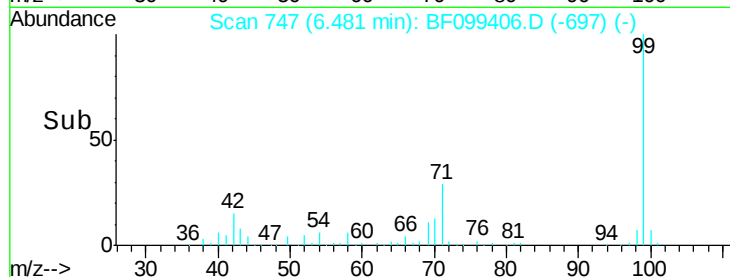
71 29.0 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.51 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

Tgt Ion: 70 Resp: 14555

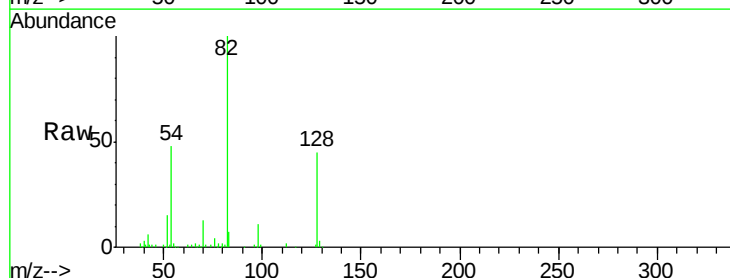
Ion Ratio Lower Upper

70 100

42 48.4 47.5 71.3

101 0.0 7.4 11.2#

130 2.7 16.6 25.0#

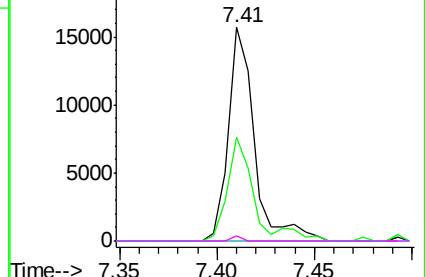
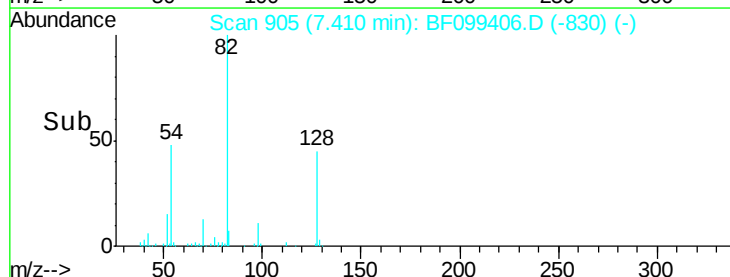


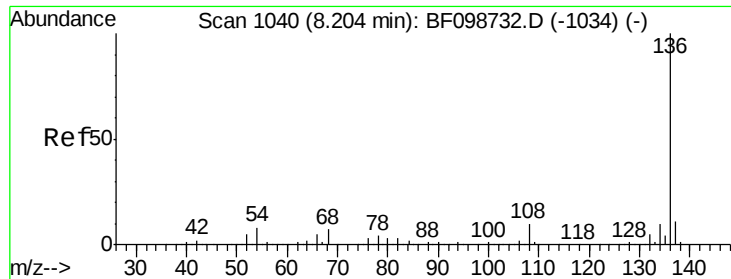
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

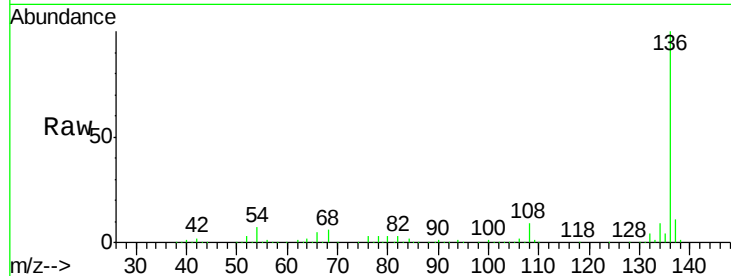




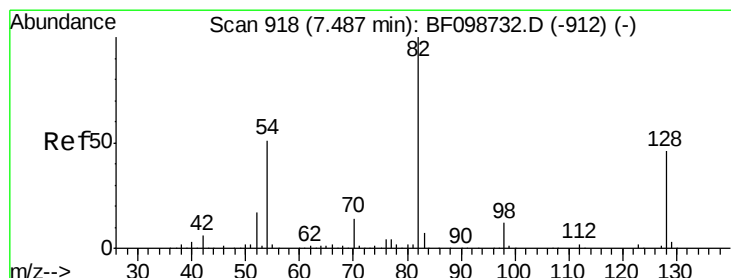
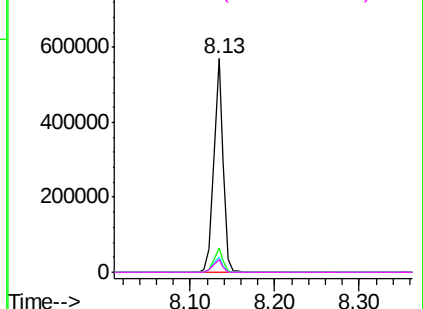
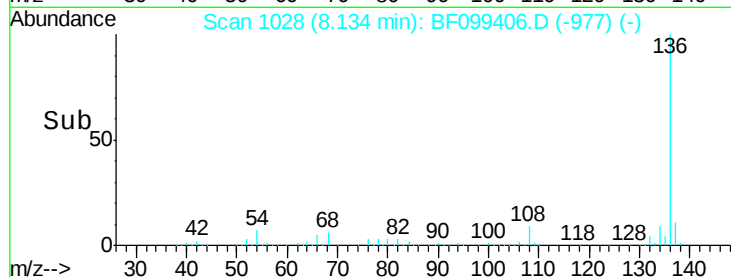
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. 0.00 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 461104   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.2  | 8.9 13.3 |
| 54          | 7.5   | 6.6 9.8  |
| 68          | 5.9   | 5.0 7.4  |

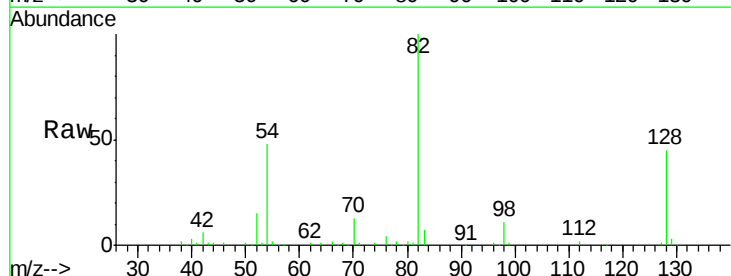


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

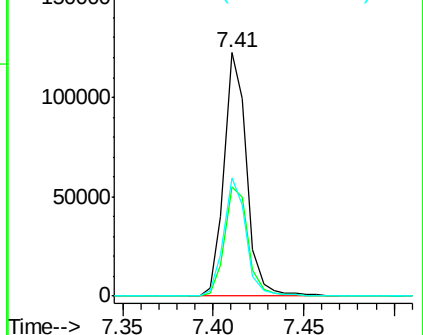
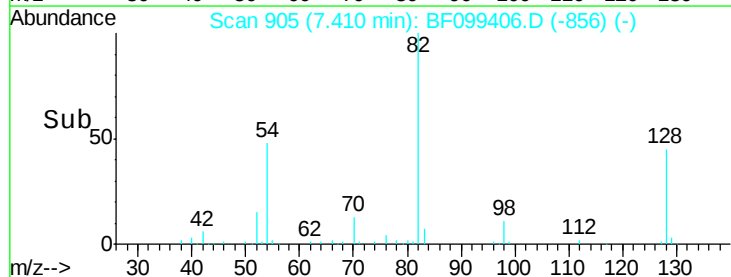


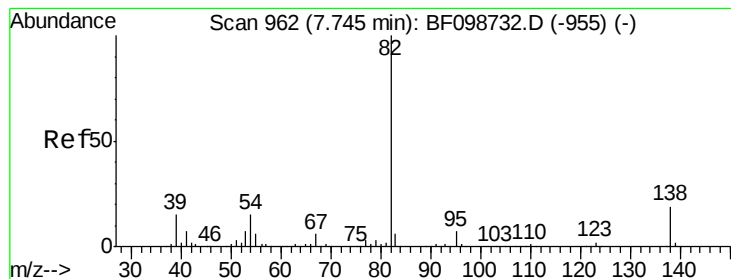
#23  
Nitrobenzene-d5  
Concen: 14.91 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 107229    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.1  | 36.1 54.1 |
| 54          | 48.3  | 41.4 62.2 |



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





#25

Isophorone

Concen: 7.21 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

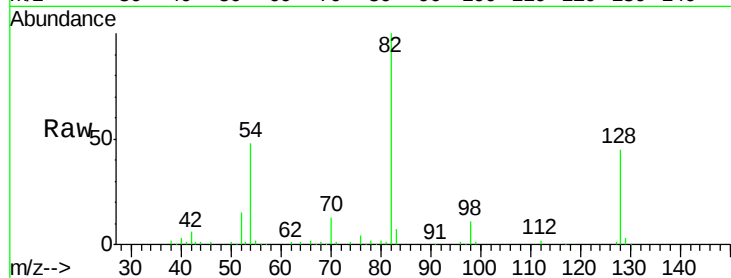
Tot Ion: 82 Resp: 107227

Ion Ratio Lower Upper

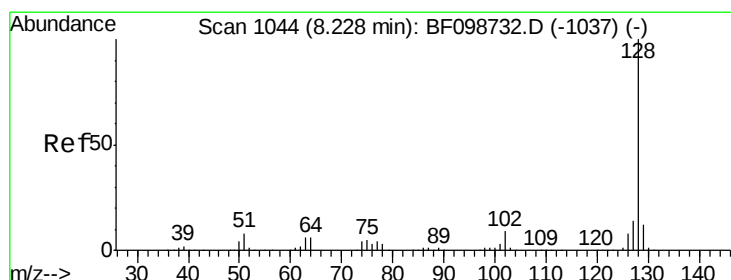
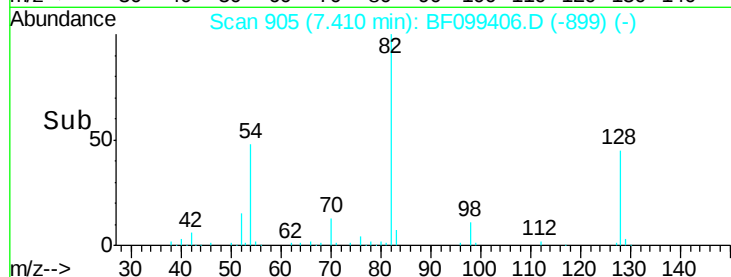
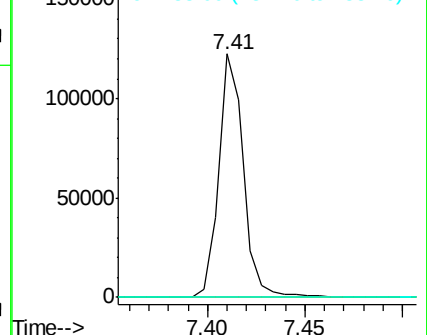
82 100

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): E



#31

Naphthalene

Concen: 3.26 ng

RT: 8.16 min Scan# 1032

Delta R.T. 0.00 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

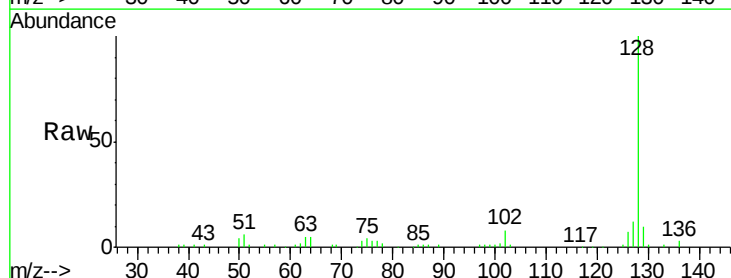
Tgt Ion: 128 Resp: 70528

Ion Ratio Lower Upper

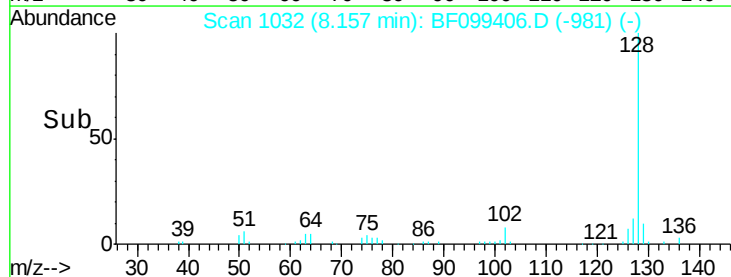
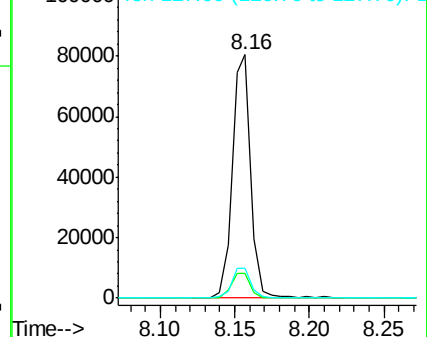
128 100

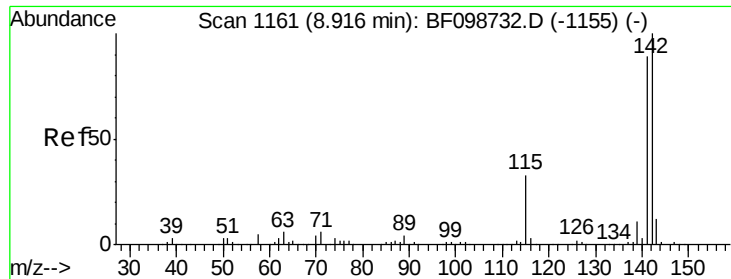
129 10.4 8.8 13.2

127 12.4 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

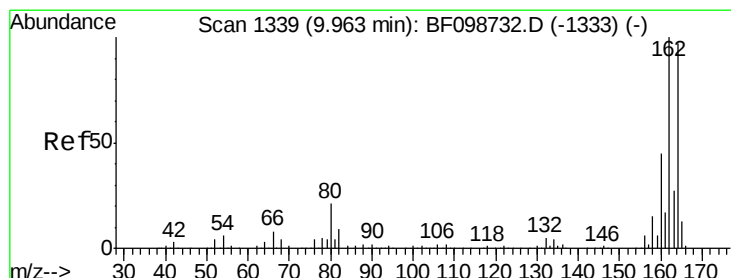
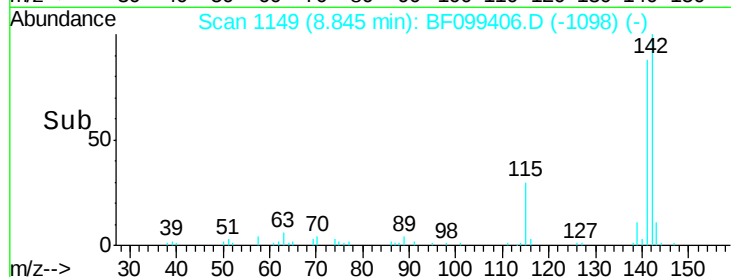
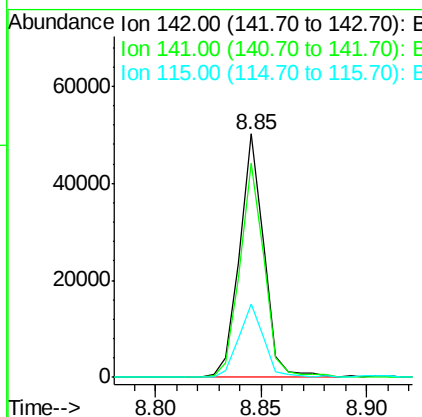
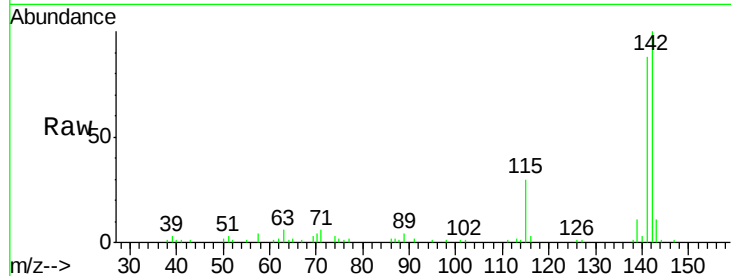




#37  
2-Methylnaphthalene  
Concen: 2.83 ng  
RT: 8.85 min Scan# 1149  
Delta R.T. 0.00 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

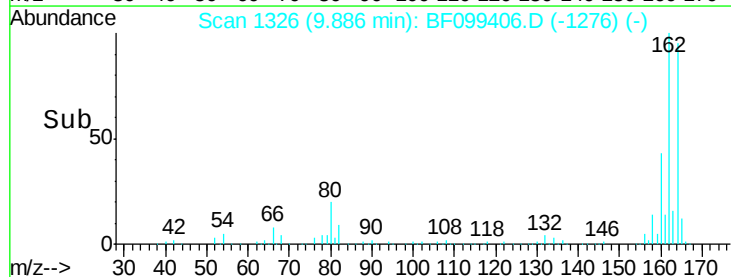
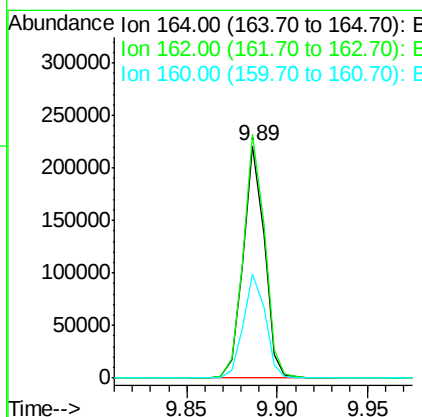
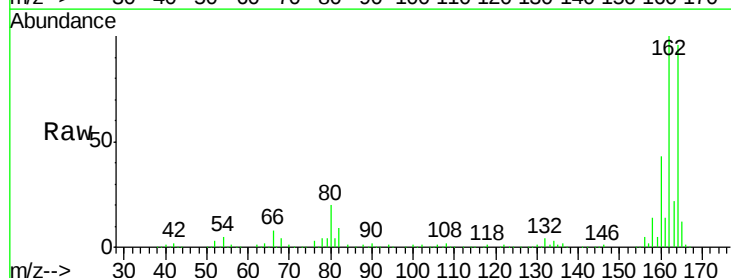
Instrument :  
BNA\_F  
ClientSampleId :

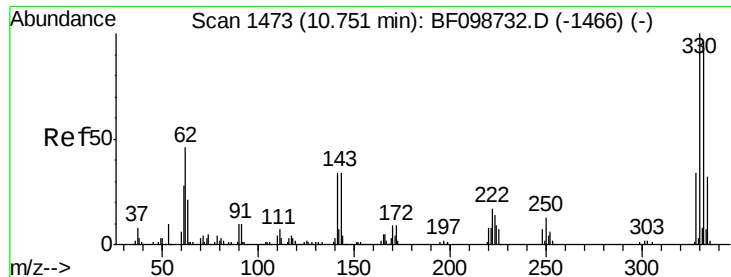
Tot Ion:142 Resp: 39883  
Ion Ratio Lower Upper  
142 100  
141 88.2 70.8 106.2  
115 30.1 26.1 39.1



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.89 min Scan# 1326  
Delta R.T. -0.01 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Tgt Ion:164 Resp: 180825  
Ion Ratio Lower Upper  
164 100  
162 104.7 86.1 129.1  
160 44.9 38.3 57.5

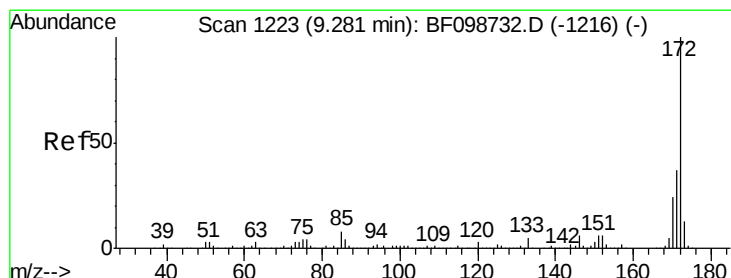
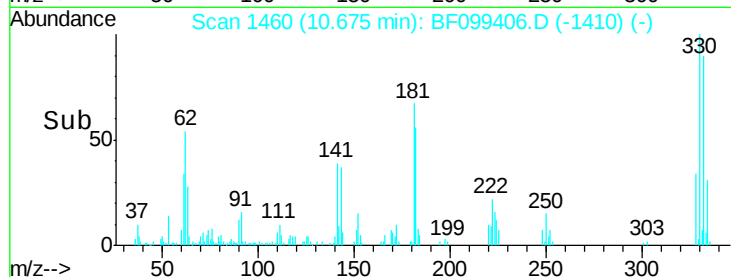
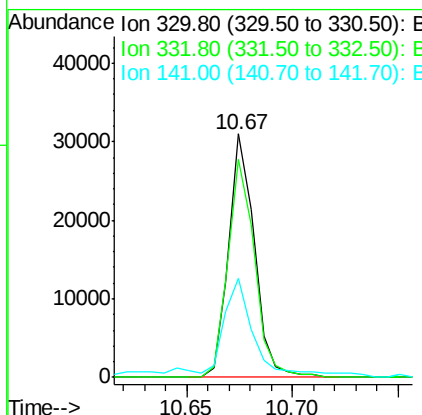
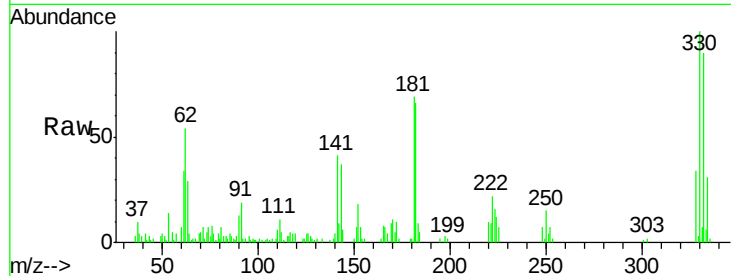




#41  
 2,4,6-Tribromophenol  
 Concen: 17.66 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.01 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

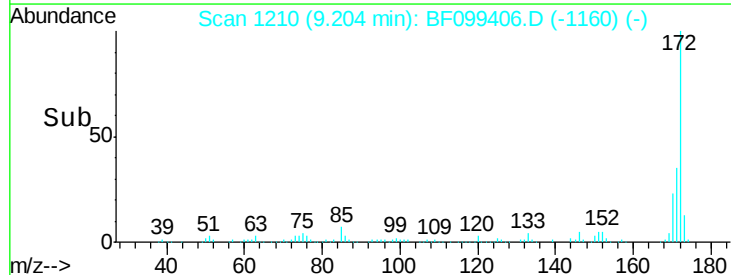
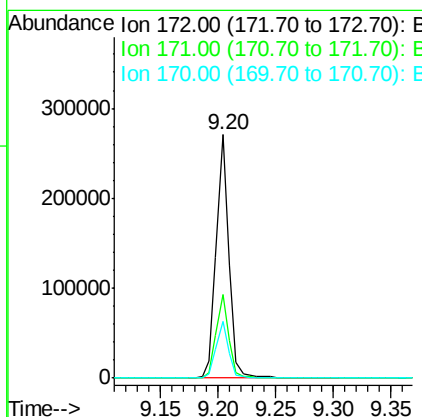
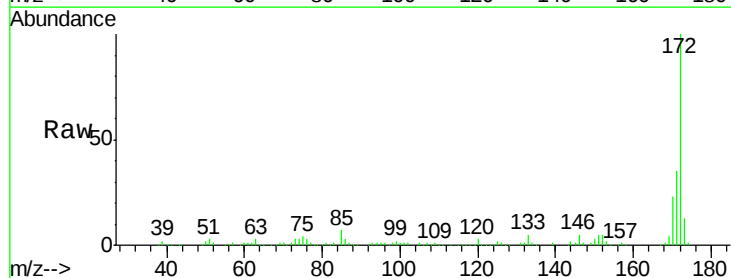
Instrument :  
 BNA\_F  
 ClientSampleId :

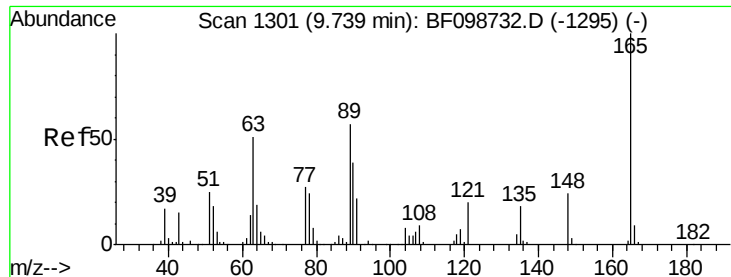
Tot Ion:330 Resp: 26129  
 Ion Ratio Lower Upper  
 330 100  
 332 92.7 77.0 115.6  
 141 56.8 29.9 44.9#



#44  
 2-Fluorobiphenyl  
 Concen: 19.16 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

Tgt Ion:172 Resp: 207561  
 Ion Ratio Lower Upper  
 172 100  
 171 34.6 29.7 44.5  
 170 23.2 19.6 29.4

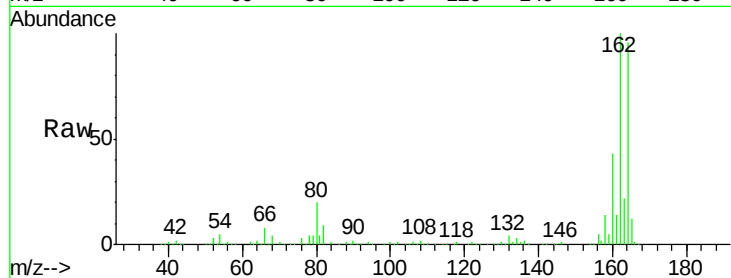




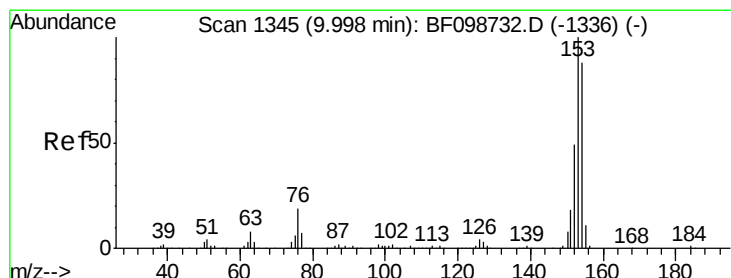
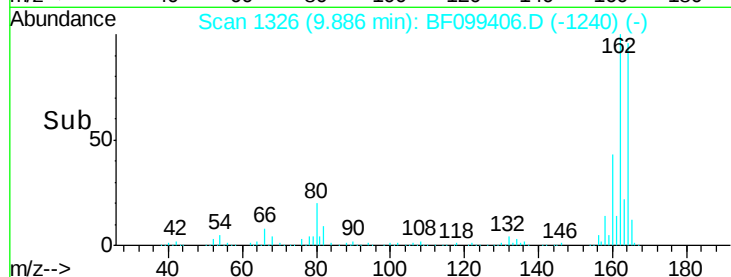
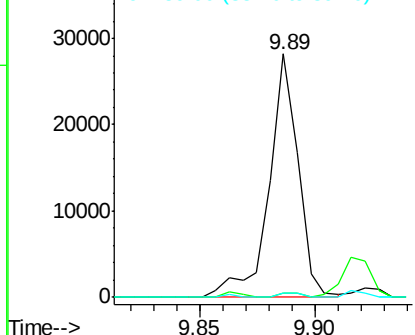
#50  
2,6-Dinitrotoluene  
Concen: 8.31 ng  
RT: 9.89 min Scan# 1326  
Delta R.T. 0.21 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 24692  
Ion Ratio Lower Upper  
165 100  
63 1.5 44.7 67.1#  
89 1.7 44.0 66.0#

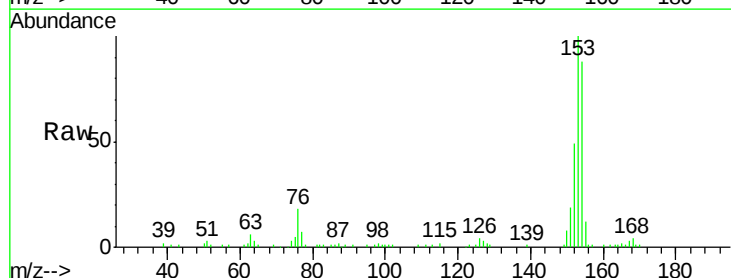


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

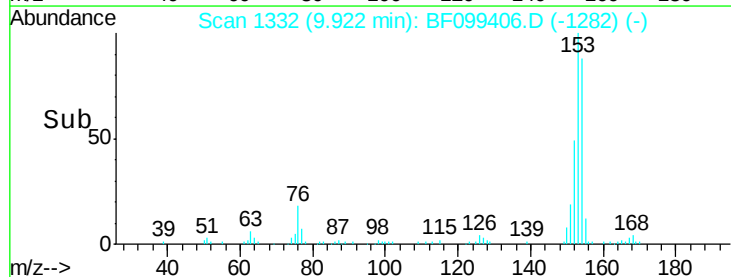
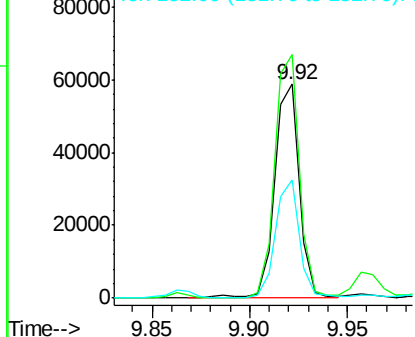


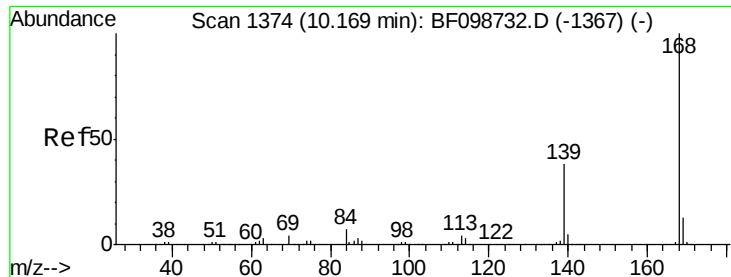
#51  
Acenaphthene  
Concen: 4.56 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Tgt Ion:154 Resp: 51585  
Ion Ratio Lower Upper  
154 100  
153 113.8 91.2 136.8  
152 55.2 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

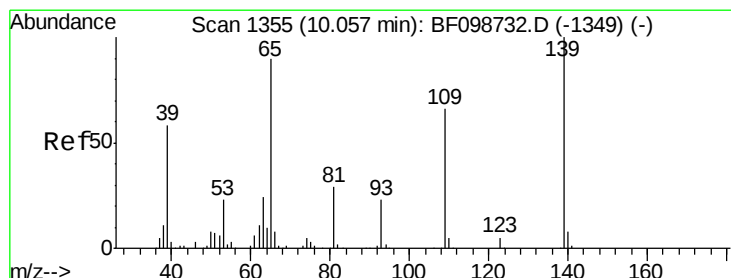
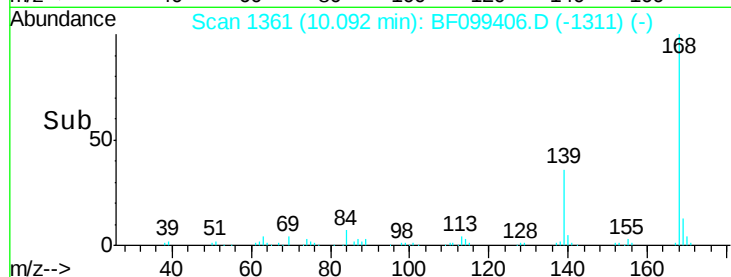
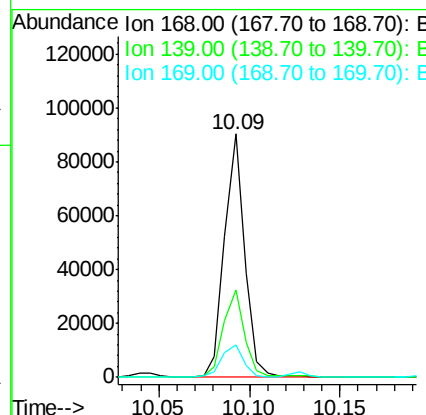
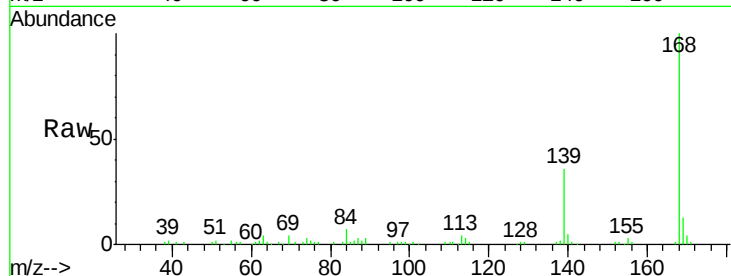




#54  
Dibenzenofuran  
Concen: 4.68 ng  
RT: 10.09 min Scan# 1361  
Delta R.T. -0.01 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

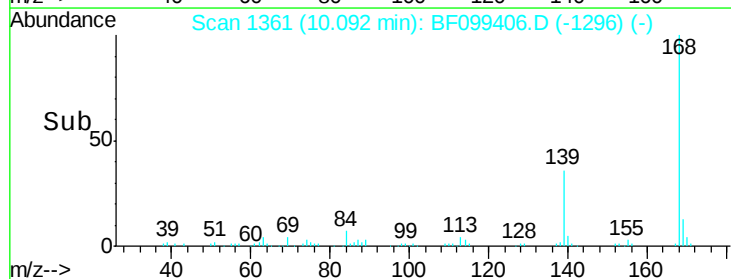
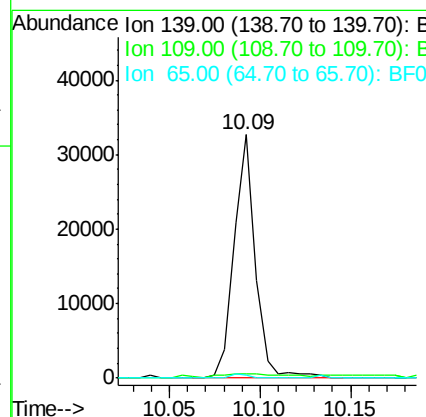
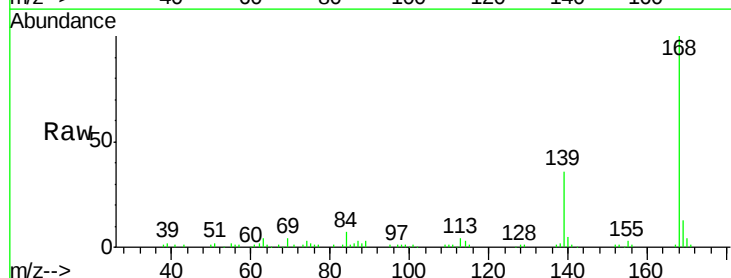
Instrument :  
BNA\_F  
ClientSampleId :

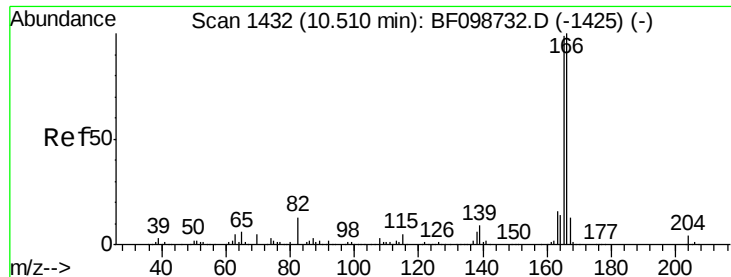
Tot Ion:168 Resp: 70470  
Ion Ratio Lower Upper  
168 100  
139 36.2 30.1 45.1  
169 13.4 10.9 16.3



#55  
4-Nitrophenol  
Concen: 9.18 ng  
RT: 10.09 min Scan# 1361  
Delta R.T. 0.08 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Tgt Ion:139 Resp: 26905  
Ion Ratio Lower Upper  
139 100  
109 1.9 48.4 88.4#  
65 1.2 72.6 112.6#

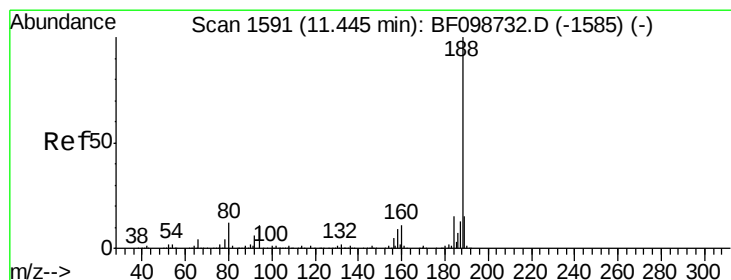
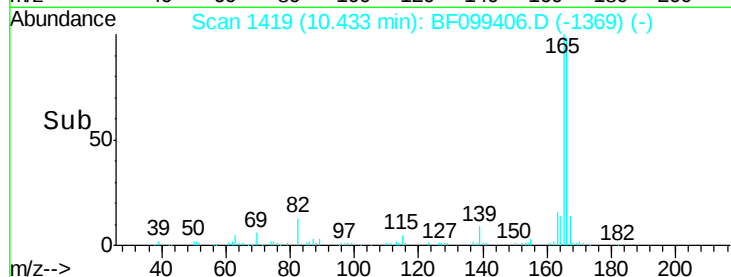
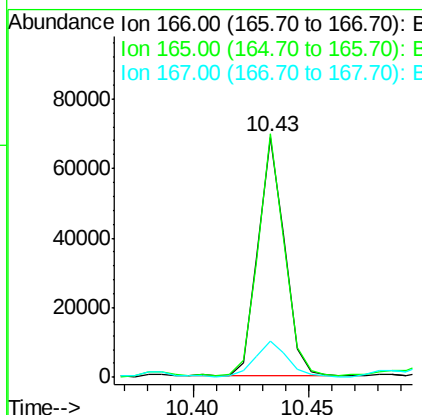
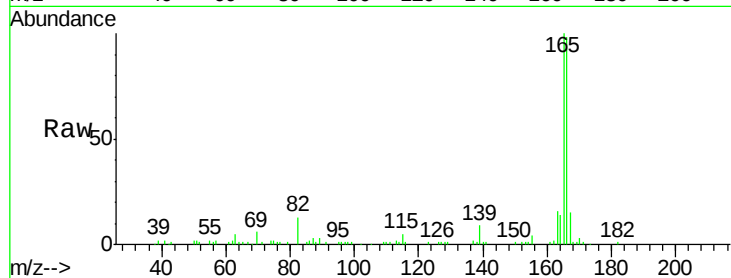




#57  
 Fluorene  
 Concen: 4.60 ng  
 RT: 10.43 min Scan# 1419  
 Delta R.T. -0.01 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

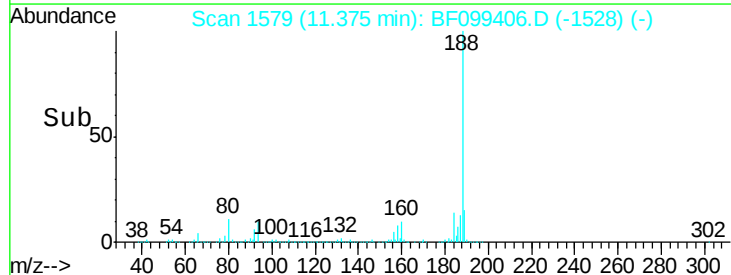
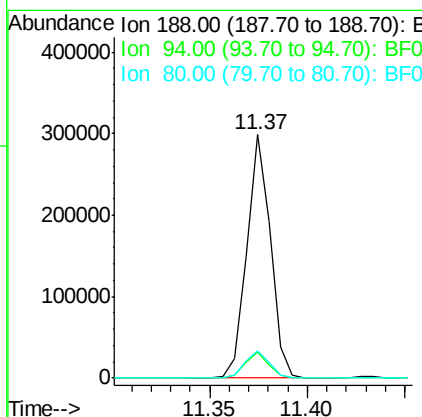
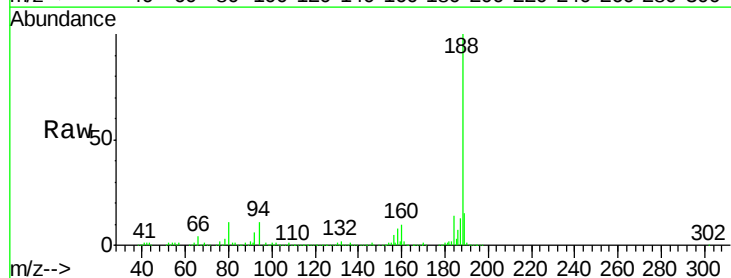
Instrument :  
 BNA\_F  
 ClientSampleId :

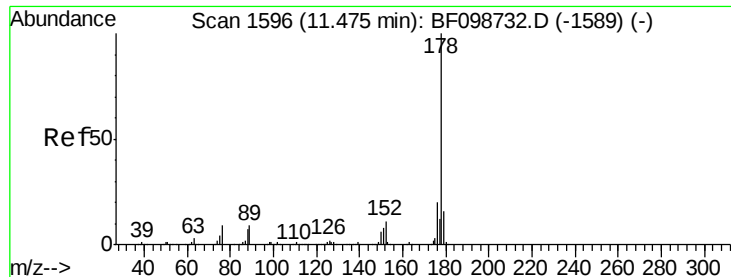
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.5 | 79.8  | 119.8 |
| 167     | 15.3  | 10.6  | 16.0  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.37 min Scan# 1579  
 Delta R.T. 0.00 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.6  | 8.5   | 12.7  |
| 80      | 11.4  | 9.2   | 13.8  |

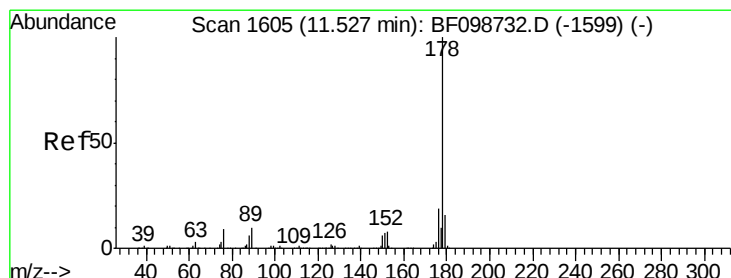
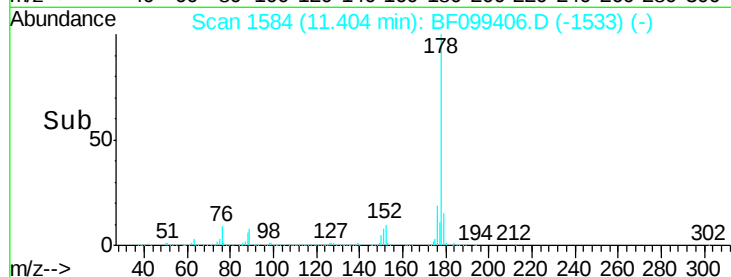
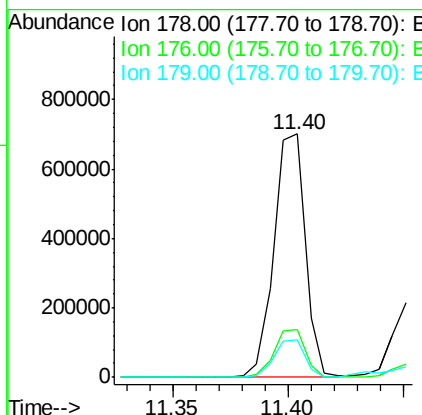
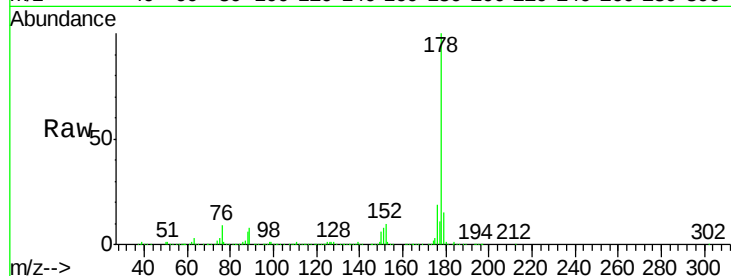




#70  
Phenanthrene  
Concen: 49.11 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. 0.00 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

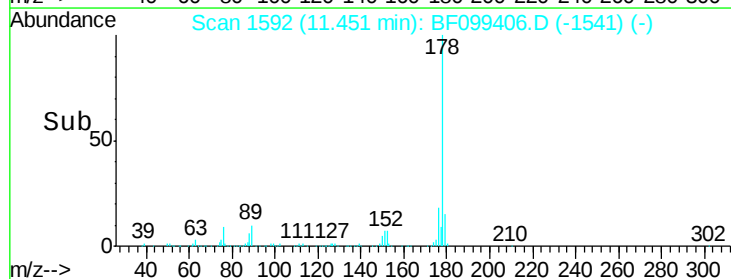
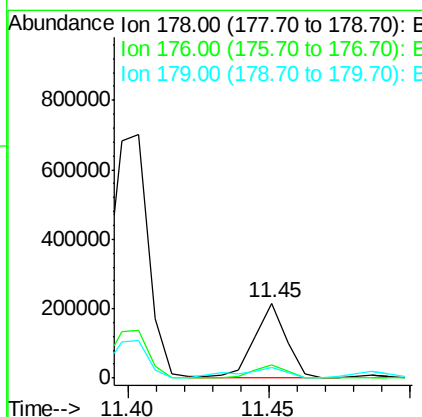
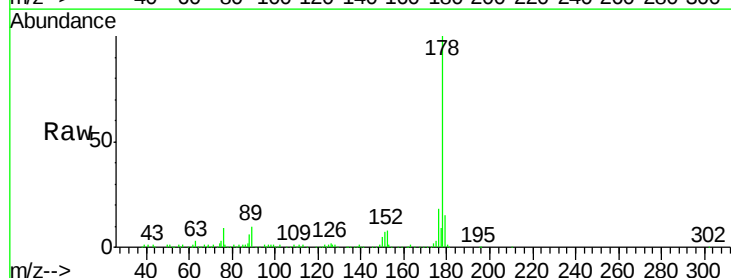
Instrument :  
BNA\_F  
ClientSampleId :

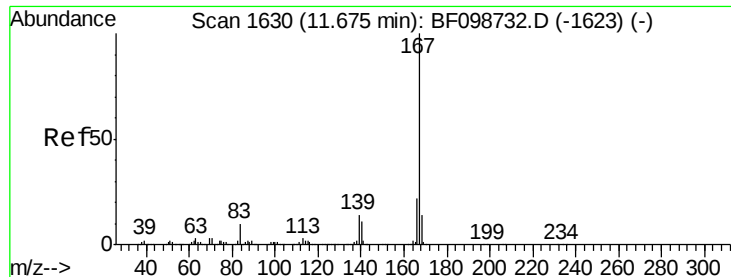
Tot Ion:178 Resp: 659378  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.8 23.8  
179 15.4 13.0 19.6



#71  
Anthracene  
Concen: 12.12 ng  
RT: 11.45 min Scan# 1592  
Delta R.T. 0.00 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Tgt Ion:178 Resp: 166522  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.4 23.2  
179 14.9 12.6 19.0

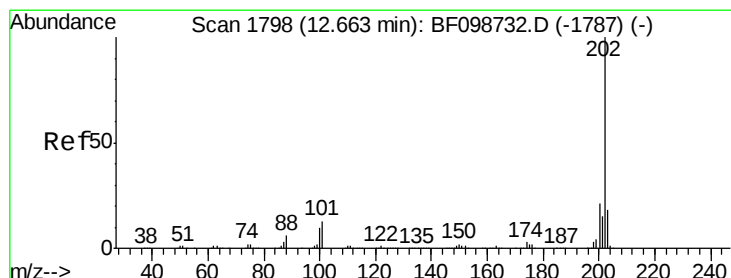
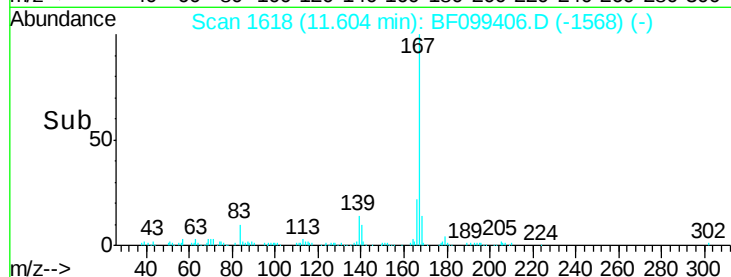
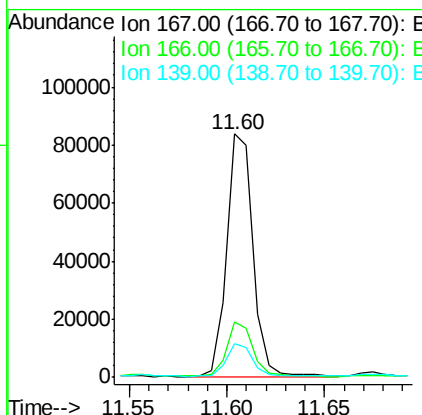
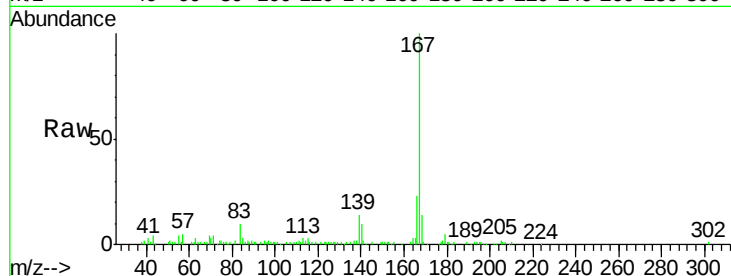




#72  
 Carbazole  
 Concen: 5.88 ng  
 RT: 11.60 min Scan# 1618  
 Delta R.T. -0.01 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

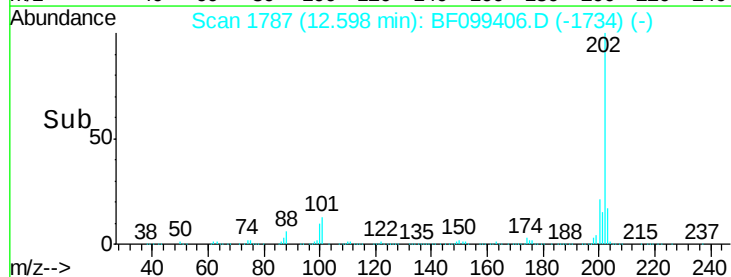
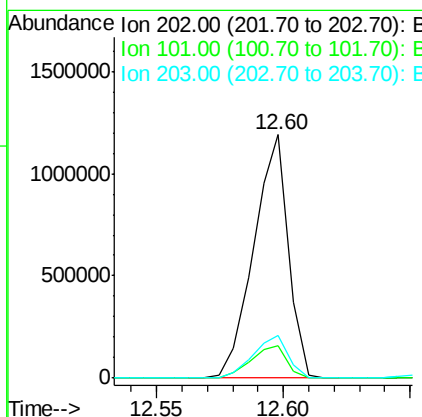
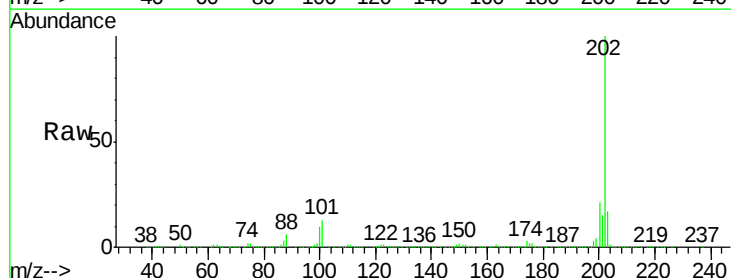
Instrument :  
 BNA\_F  
 ClientSampled :

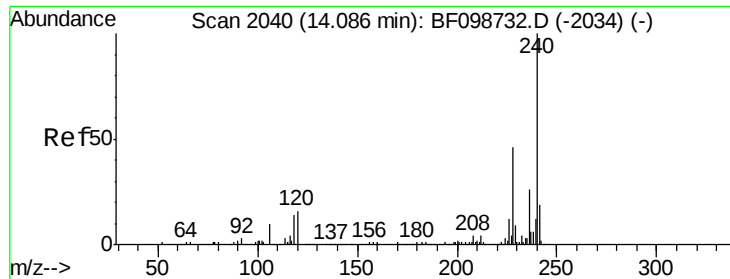
Tot Ion:167 Resp: 79052  
 Ion Ratio Lower Upper  
 167 100  
 166 22.5 17.6 26.4  
 139 14.0 10.9 16.3



#74  
 Fluoranthene  
 Concen: 82.90 ng  
 RT: 12.60 min Scan# 1787  
 Delta R.T. 0.01 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

Tgt Ion:202 Resp: 1127019  
 Ion Ratio Lower Upper  
 202 100  
 101 13.2 0.0 34.1  
 203 17.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.01 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

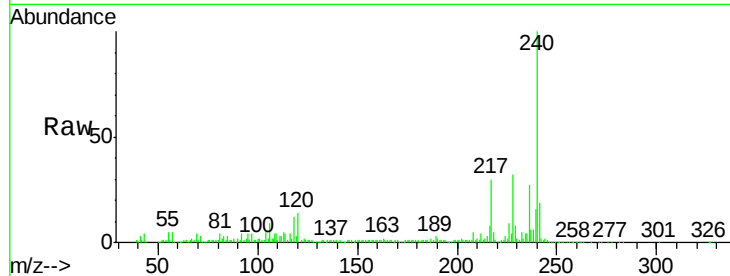
Tot Ion:240 Resp: 202450

Ion Ratio Lower Upper

240 100

120 14.2 9.5 14.3

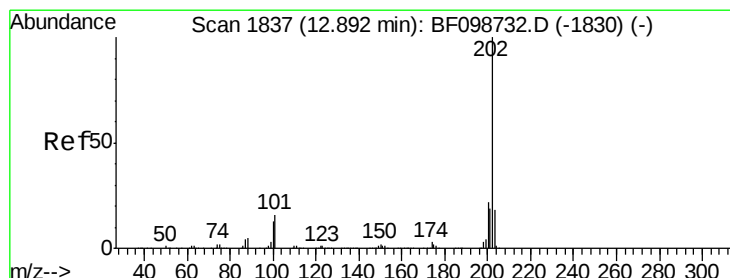
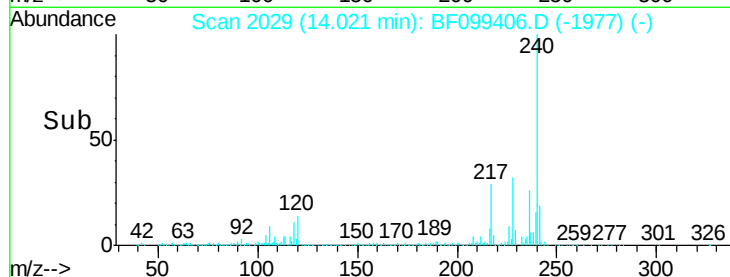
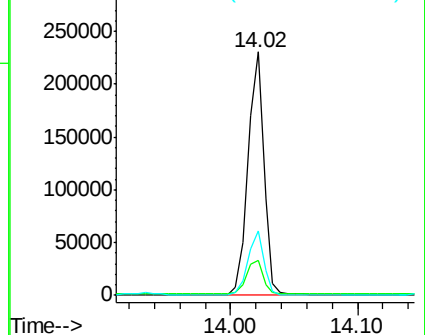
236 26.5 20.7 31.1



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: 62.80 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.01 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

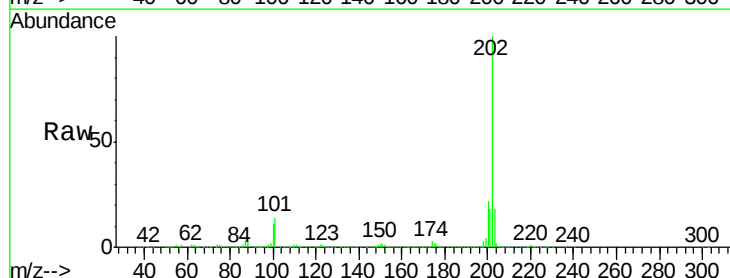
Tgt Ion:202 Resp: 969481

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

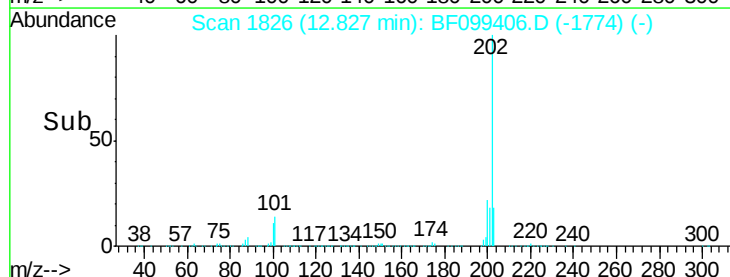
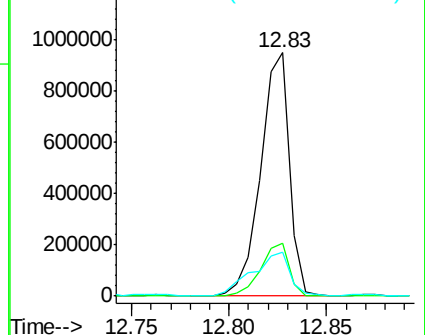
203 18.2 14.3 21.5

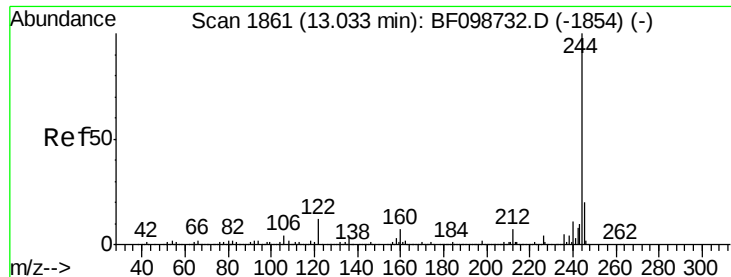


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

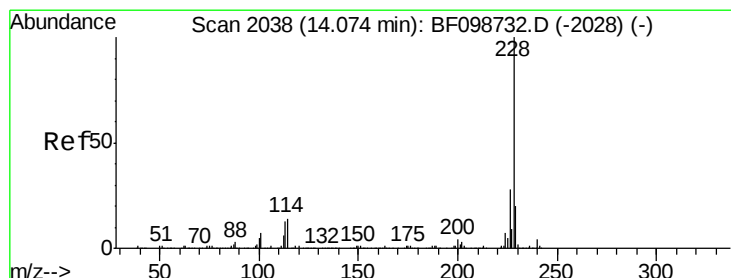
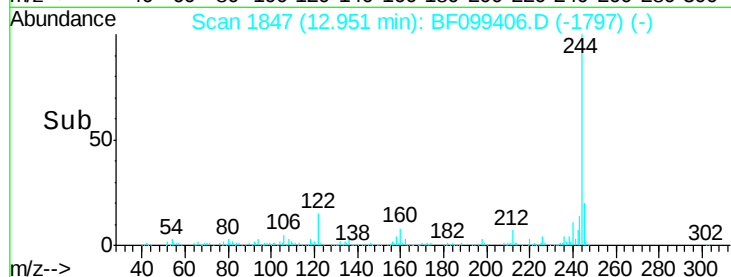
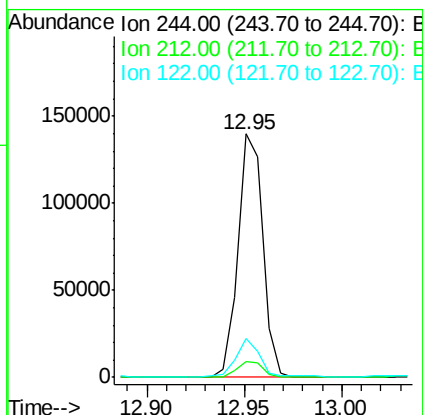
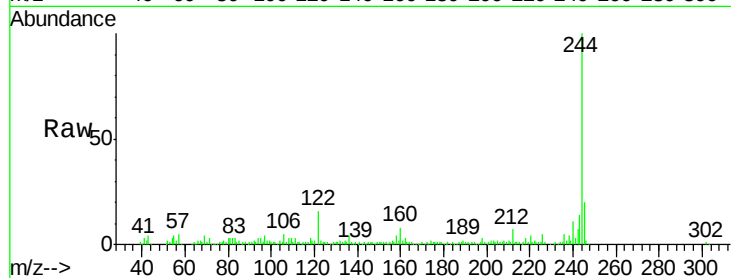




#78  
 Terphenyl-d14  
 Concen: 13.84 ng  
 RT: 12.95 min Scan# 1847  
 Delta R.T. -0.01 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

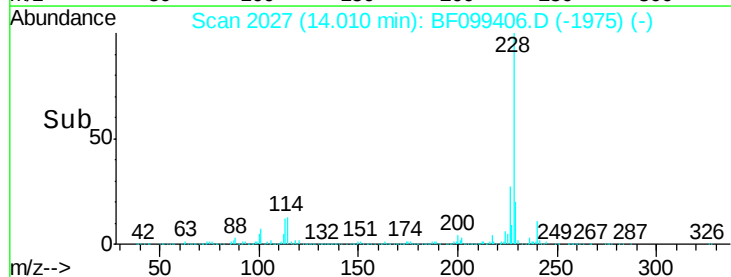
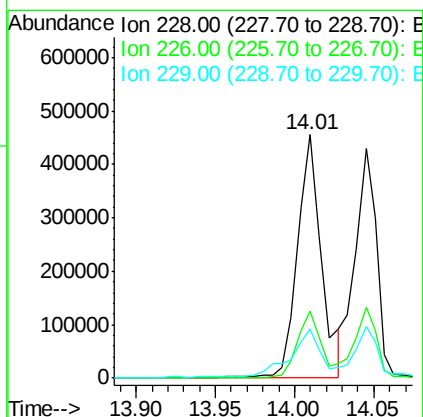
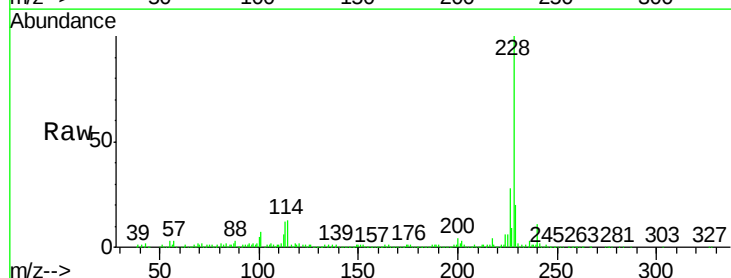
Instrument :  
 BNA\_F  
 ClientSampleId :

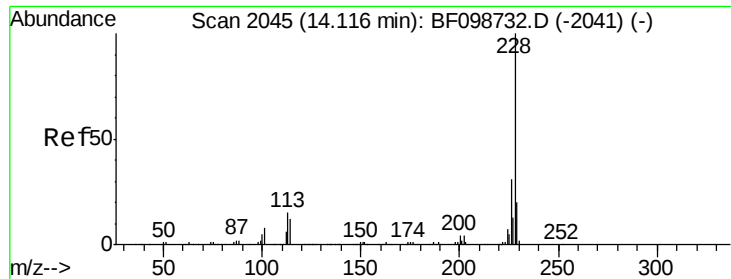
Tot Ion:244 Resp: 123165  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.4 8.0  
 122 15.9 11.0 16.4



#80  
 Benzo(a)anthracene  
 Concen: 38.81 ng  
 RT: 14.01 min Scan# 2027  
 Delta R.T. 0.01 min  
 Lab File: BF099406.D  
 Acq: 12 Oct 2017 20:32

Tgt Ion:228 Resp: 475747  
 Ion Ratio Lower Upper  
 228 100  
 226 27.5 22.6 33.8  
 229 20.3 15.8 23.6





#82

Chrysene

Concen: 34.59 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

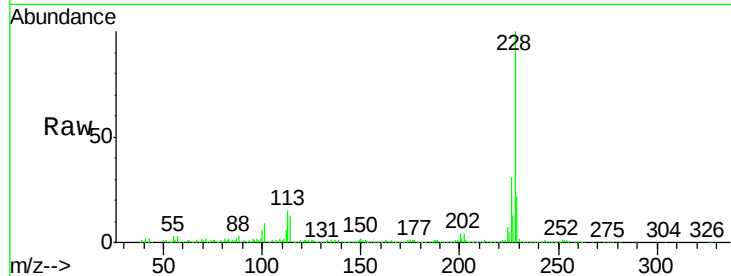
Tot Ion:228 Resp: 403748

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

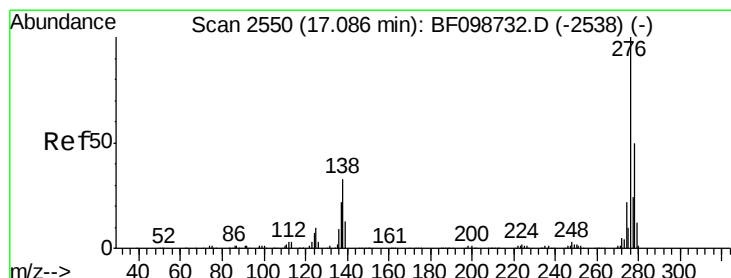
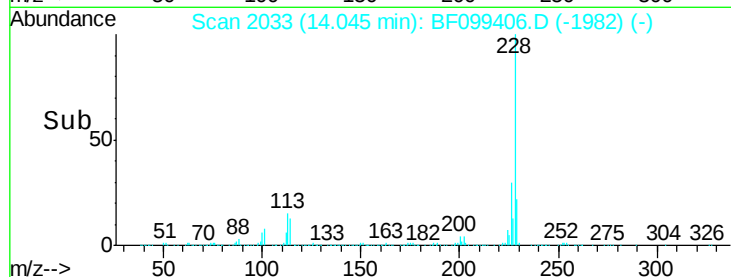
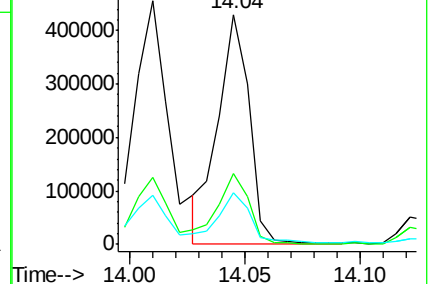
229 22.5 16.2 24.4



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: 15.75 ng

RT: 16.97 min Scan# 2531

Delta R.T. 0.01 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

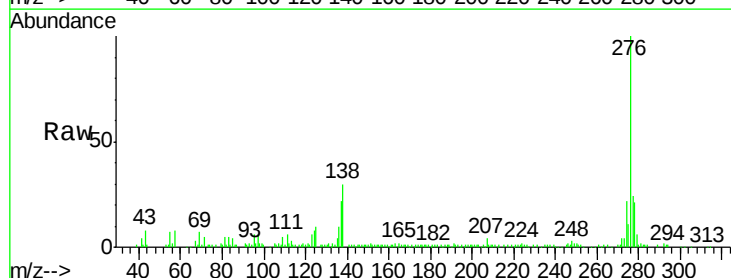
Tgt Ion:276 Resp: 147056

Ion Ratio Lower Upper

276 100

138 29.2 25.0 37.6

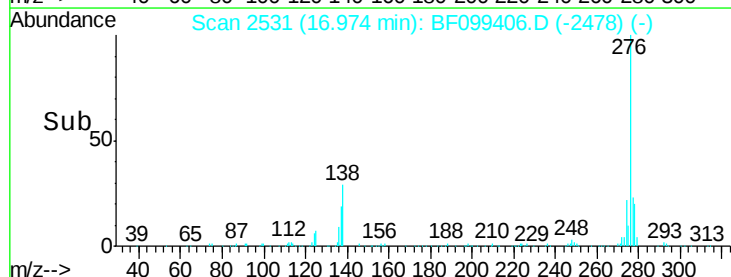
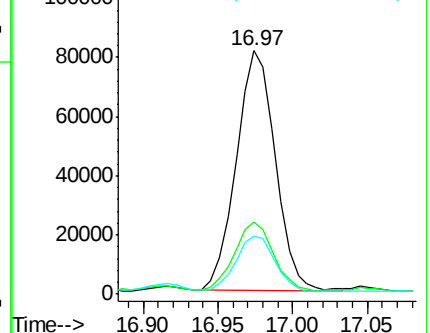
277 23.6 20.1 30.1

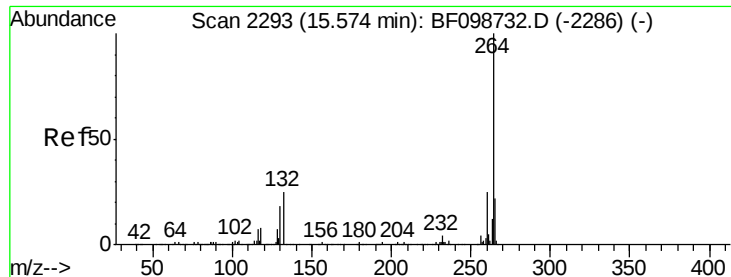


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



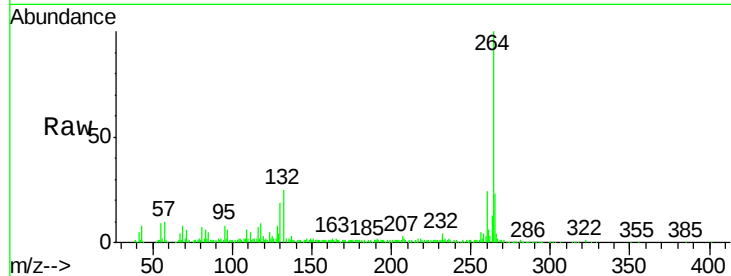


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.49 min Scan# 2279  
Delta R.T. 0.01 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

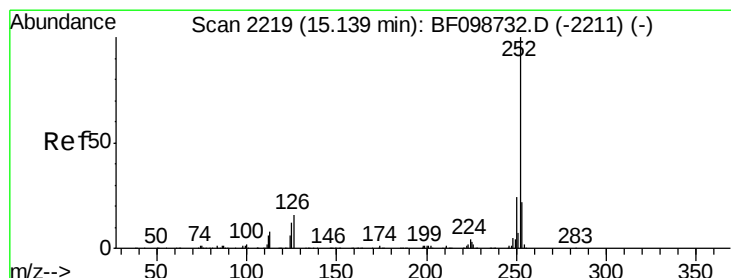
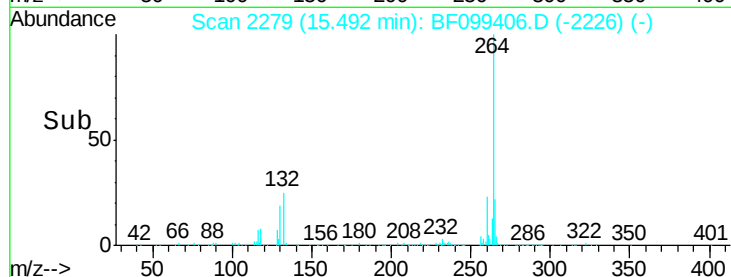
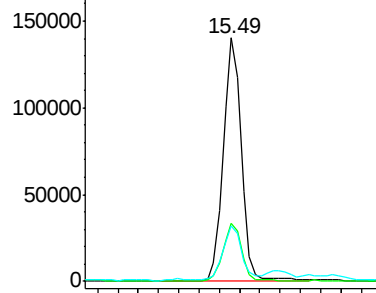
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 176412  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.2  | 28.8  |
| 265 | 22.8  | 17.5  | 26.3  |



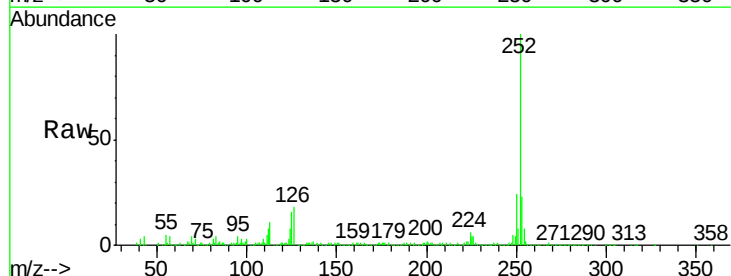
Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



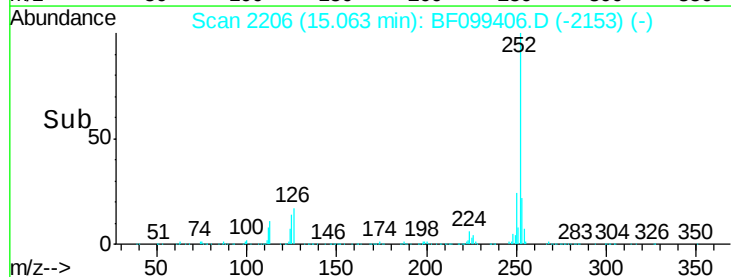
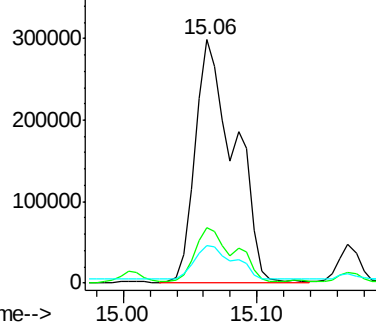
#87  
Benzo(b)fluoranthene  
Concen: 56.26 ng  
RT: 15.06 min Scan# 2206  
Delta R.T. 0.01 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

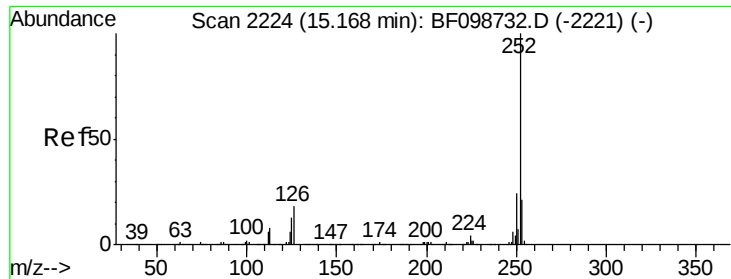
Tgt Ion:252 Resp: 610226  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.0  | 17.0  | 25.6  |
| 125 | 15.5  | 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

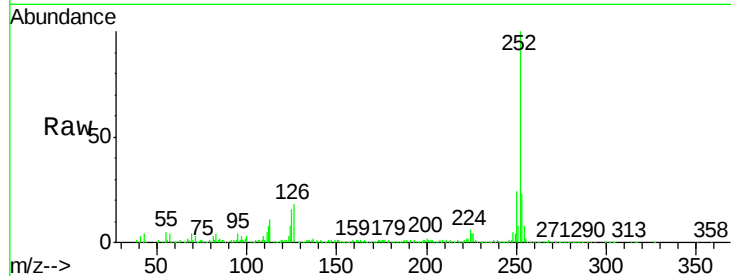




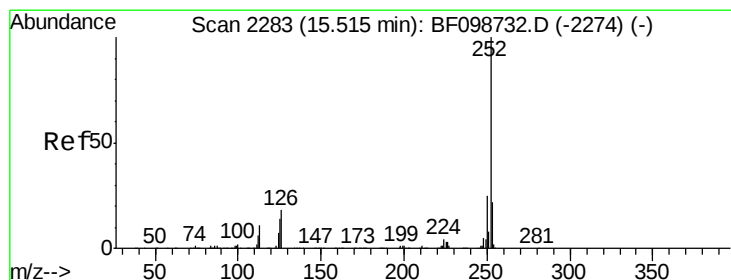
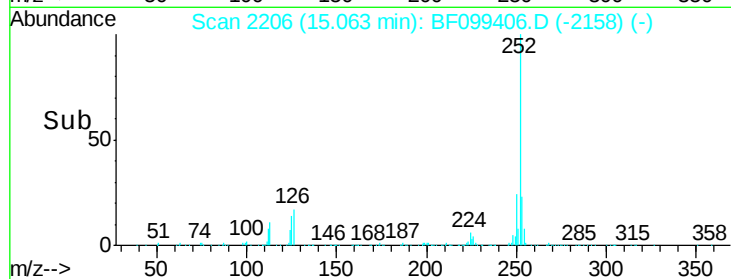
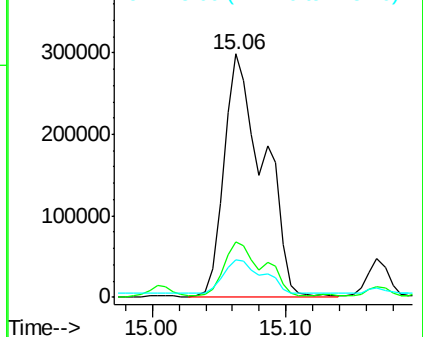
#88  
Benzo(k)fluoranthene  
Concen: 56.96 ng  
RT: 15.06 min Scan# 2206  
Delta R.T. -0.02 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.9  | 26.9  |
| 125     | 15.5  | 10.2  | 15.2# |

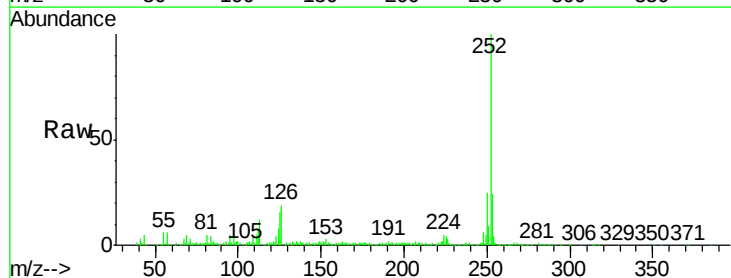


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

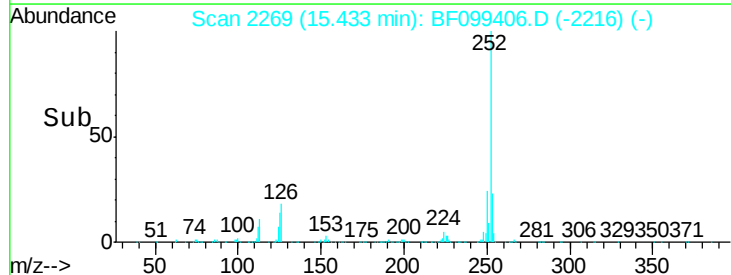
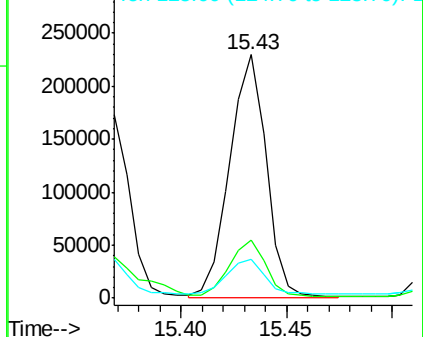


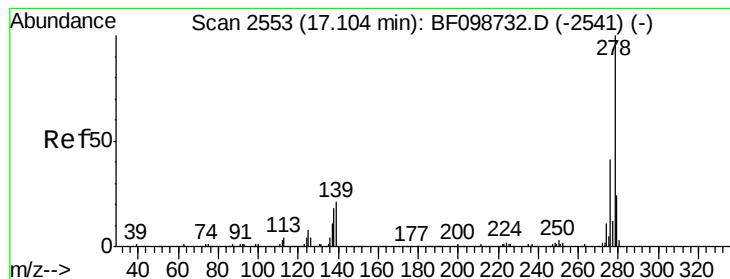
#89  
Benzo(a)pyrene  
Concen: 27.51 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. 0.01 min  
Lab File: BF099406.D  
Acq: 12 Oct 2017 20:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.1  | 25.7  |
| 125     | 15.9  | 9.8   | 14.6# |



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





#90

Dibenzo(a,h)anthracene

Concen: 4.66 ng

RT: 16.98 min Scan# 2532

Delta R.T. 0.01 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

Instrument :

BNA\_F

ClientSampleId :

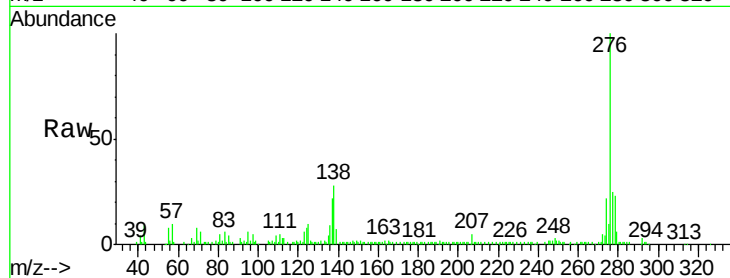
Tot Ion:278 Resp: 37093

Ion Ratio Lower Upper

278 100

139 29.0 15.9 23.9#

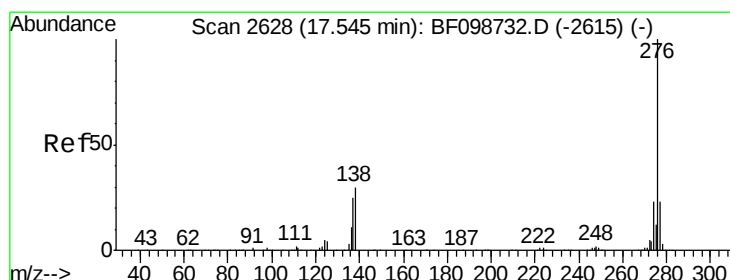
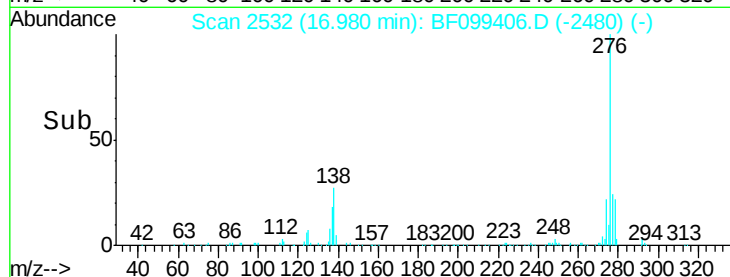
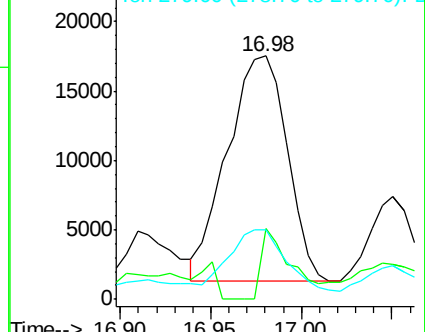
279 28.3 19.0 28.4



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: 17.29 ng

RT: 17.43 min Scan# 2608

Delta R.T. 0.02 min

Lab File: BF099406.D

Acq: 12 Oct 2017 20:32

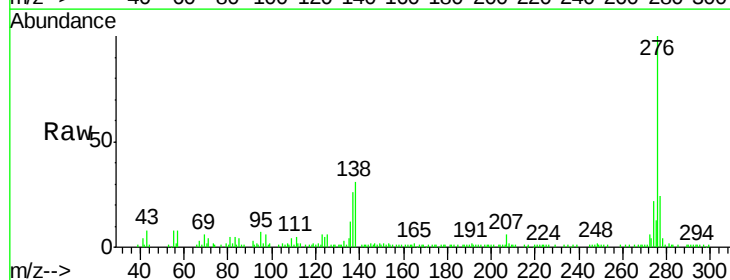
Tgt Ion:276 Resp: 136187

Ion Ratio Lower Upper

276 100

277 24.3 17.9 26.9

138 30.6 21.8 32.8



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

