

Data Path : Z:\HPCHEM1\BNA\_F\Data\BF071017\  
 Data File : BF096633.D  
 Acq On : 11 Jul 2017 8:39  
 Operator : SJ/JU  
 Sample : I4108-07DL 5X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 11 11:13:15 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 07 13:02:33 2017  
 Response via : Initial Calibration

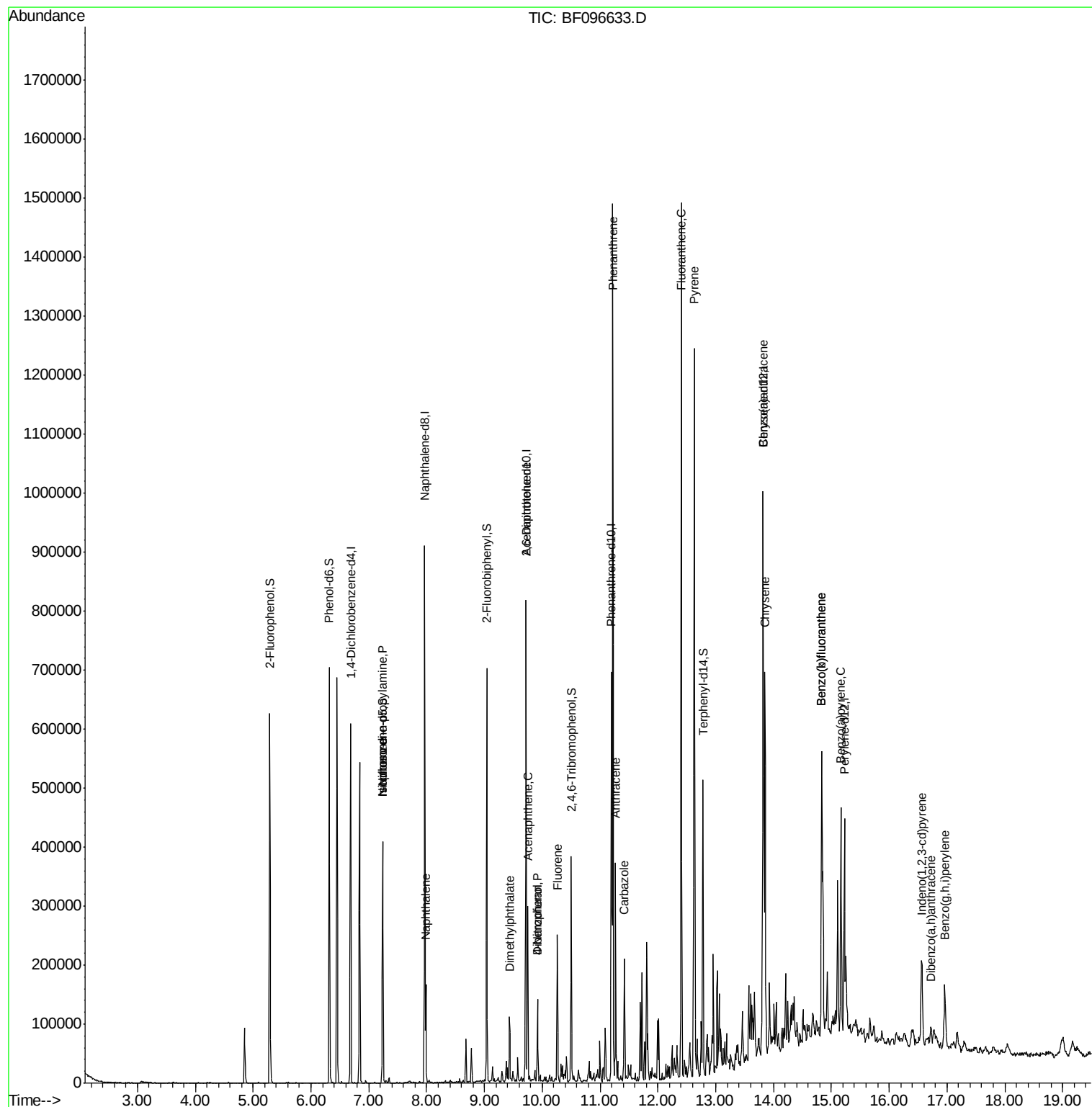
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 94930    | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8             | 7.97  | 136  | 385159   | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10           | 9.72  | 164  | 156034   | 20.00  | ng    | -0.02       |
| 63) Phenanthrene-d10           | 11.20 | 188  | 237954   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12               | 13.83 | 240  | 183710   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12               | 15.23 | 264  | 144733   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.29  | 112  | 162056   | 25.20  | ng    | -0.02       |
| 7) Phenol-d6                   | 6.32  | 99   | 196308   | 24.83  | ng    | -0.03       |
| 23) Nitrobenzene-d5            | 7.24  | 82   | 106289   | 16.58  | ng    | -0.03       |
| 41) 2,4,6-Tribromophenol       | 10.50 | 330  | 33685    | 27.64  | ng    | -0.02       |
| 44) 2-Fluorobiphenyl           | 9.04  | 172  | 212926   | 23.33  | ng    | -0.02       |
| 78) Terphenyl-d14              | 12.78 | 244  | 135756   | 15.79  | ng    | -0.02       |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 7.24  | 70   | 13924    | 2.956  | ng    | Qvalue # 84 |
| 25) Isophorone                 | 7.24  | 82   | 106071   | 8.535  | ng    | # 67        |
| 31) Naphthalene                | 7.99  | 128  | 64965    | 3.573  | ng    | 99          |
| 49) Dimethylphthalate          | 9.43  | 163  | 39196    | 3.365  | ng    | 99          |
| 50) 2,6-Dinitrotoluene         | 9.72  | 165  | 19835    | 7.700  | ng    | # 31        |
| 51) Acenaphthene               | 9.75  | 154  | 62925    | 6.466  | ng    | 98          |
| 54) Dibenzofuran               | 9.92  | 168  | 49663    | 3.865  | ng    | 98          |
| 55) 4-Nitrophenol              | 9.92  | 139  | 18159    | 6.819  | ng    | # 27        |
| 57) Fluorene                   | 10.26 | 166  | 63926    | 7.045  | ng    | 95          |
| 70) Phenanthrene               | 11.22 | 178  | 513456   | 39.917 | ng    | 99          |
| 71) Anthracene                 | 11.27 | 178  | 133623   | 10.194 | ng    | 98          |
| 72) Carbazole                  | 11.42 | 167  | 76490    | 5.802  | ng    | 96          |
| 74) Fluoranthene               | 12.41 | 202  | 593790   | 47.083 | ng    | 97          |
| 77) Pyrene                     | 12.63 | 202  | 492180   | 33.377 | ng    | 99          |
| 80) Benzo(a)anthracene         | 13.82 | 228  | 261135   | 24.546 | ng    | 99          |
| 82) Chrysene                   | 13.85 | 228  | 234098   | 21.013 | ng    | 97          |
| 85) Indeno(1,2,3-cd)pyrene     | 16.56 | 276  | 89137    | 10.136 | ng    | 94          |
| 87) Benzo(b)fluoranthene       | 14.83 | 252  | 327685   | 36.133 | ng    | # 97        |
| 88) Benzo(k)fluoranthene       | 14.83 | 252  | 327685   | 40.394 | ng    | 98          |
| 89) Benzo(a)pyrene             | 15.17 | 252  | 160805   | 19.861 | ng    | 96          |
| 90) Dibenzo(a,h)anthracene     | 16.72 | 278  | 19429    | 3.050  | ng    | 96          |
| 91) Benzo(g,h,i)perylene       | 16.96 | 276  | 74616    | 11.305 | ng    | 96          |

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

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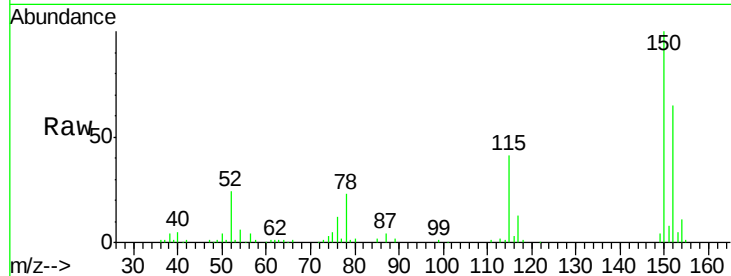




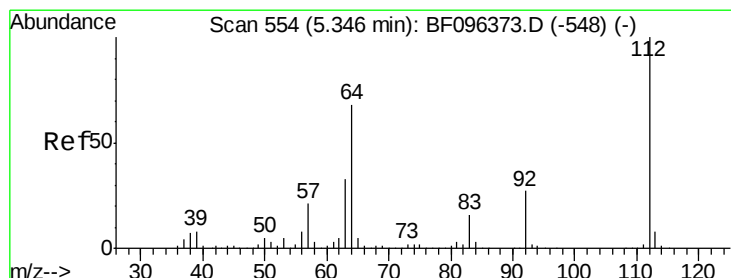
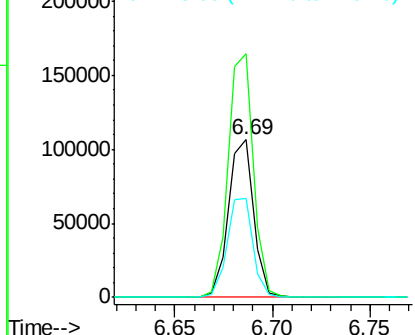
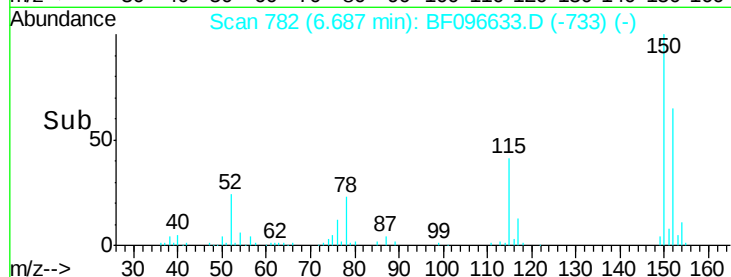
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.69 min Scan# 782  
 Delta R.T. -0.01 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

Instrument :  
 BNA\_F  
 ClientSampled :

Tgt Ion:152 Resp: 94930  
 Ion Ratio Lower Upper  
 152 100  
 150 154.4 126.2 189.2  
 115 62.5 52.2 78.2

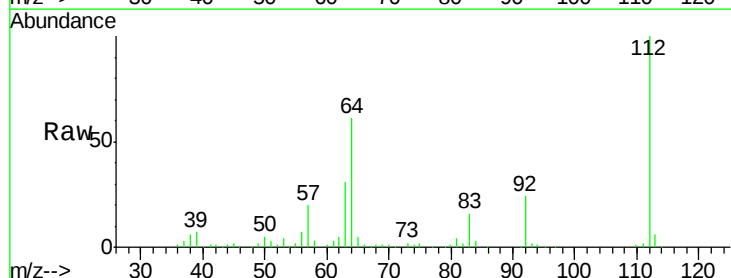


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

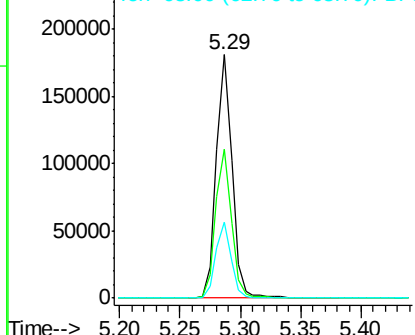
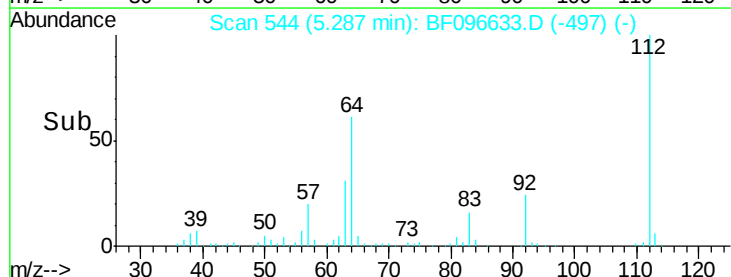


#5  
 2-Fluorophenol  
 Concen: 25.196 ng  
 RT: 5.29 min Scan# 544  
 Delta R.T. -0.02 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

Tgt Ion:112 Resp: 162056  
 Ion Ratio Lower Upper  
 112 100  
 64 61.1 46.0 69.0  
 63 31.4 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: 24.827 ng

RT: 6.32 min Scan# 719

Delta R.T. -0.03 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Instrument :

BNA\_F

ClientSampleId :

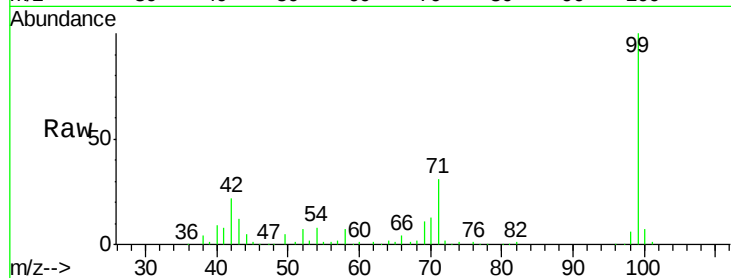
Tgt Ion: 99 Resp: 196308

Ion Ratio Lower Upper

99 100

42 22.3 13.5 20.3#

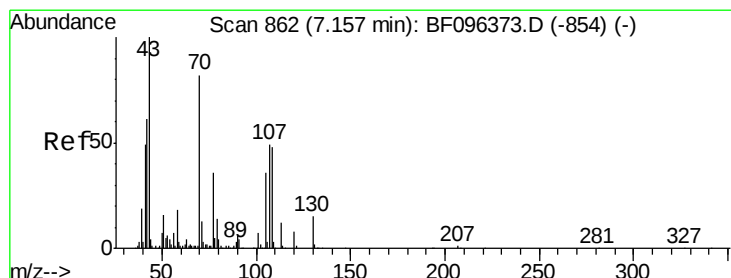
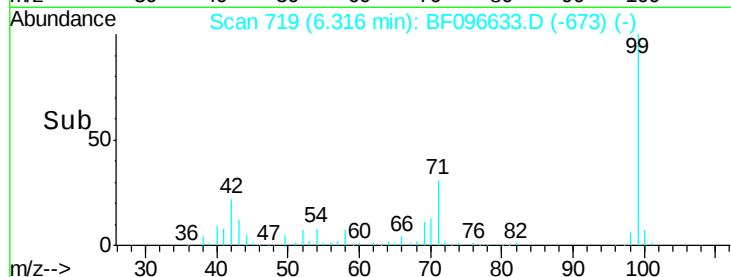
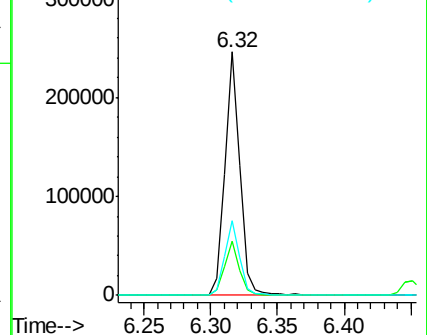
71 30.7 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 2.956 ng

RT: 7.24 min Scan# 876

Delta R.T. 0.11 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Tgt Ion: 70 Resp: 13924

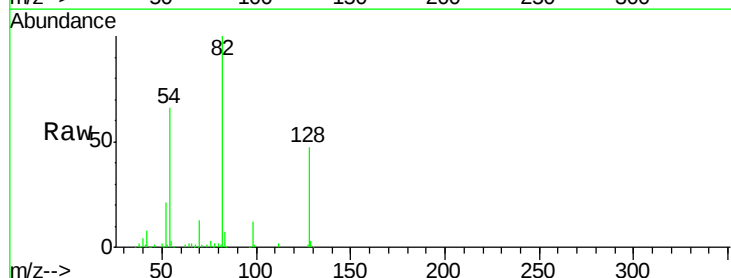
Ion Ratio Lower Upper

70 100

42 64.4 47.2 70.8

101 0.0 7.2 10.8#

130 2.3 15.9 23.9#

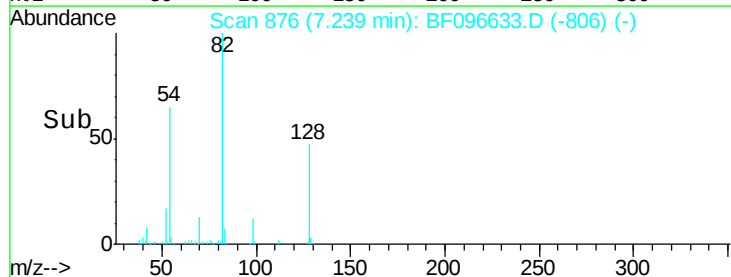
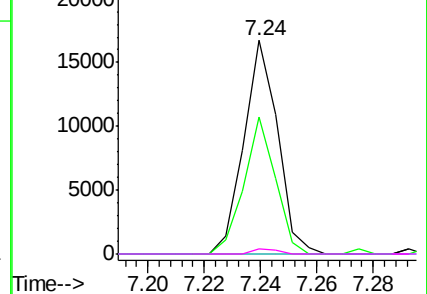


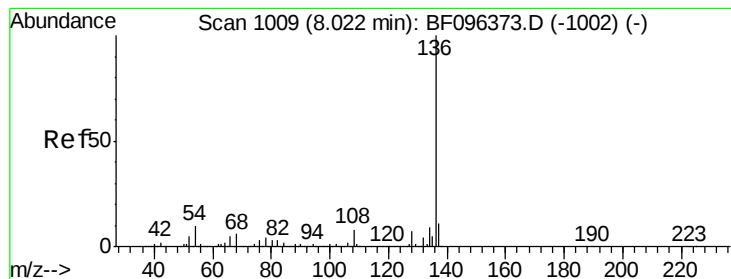
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 20.000 ng

RT: 7.97 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF096633.D

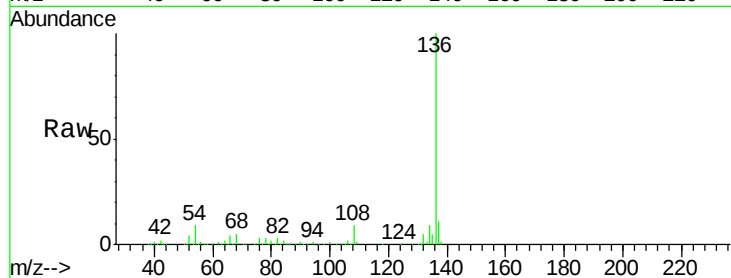
Acq: 11 Jul 2017 8:39

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 385159 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.5   | 12.7   |
| 54       | 9.1   | 4.9   | 7.3#   |
| 68       | 4.6   | 4.1   | 6.1    |

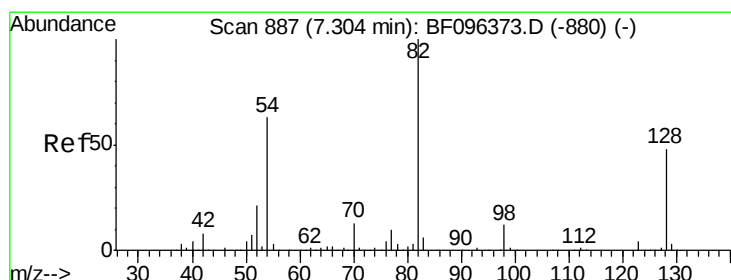
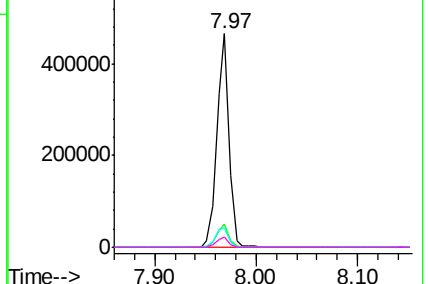
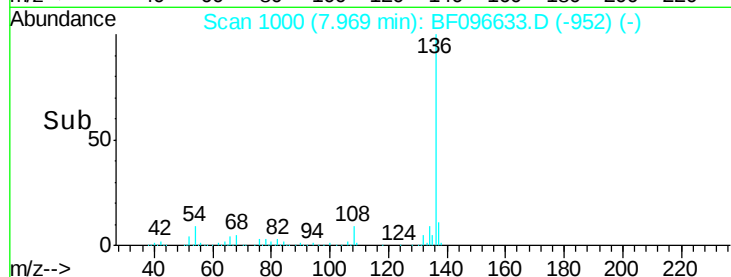


Abundance Ion 136.00 (135.70 to 136.70): E

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: 16.583 ng

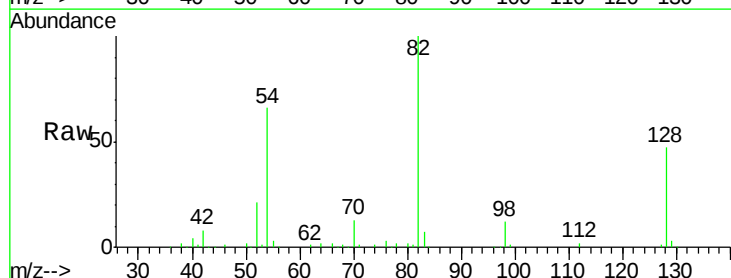
RT: 7.24 min Scan# 876

Delta R.T. -0.03 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

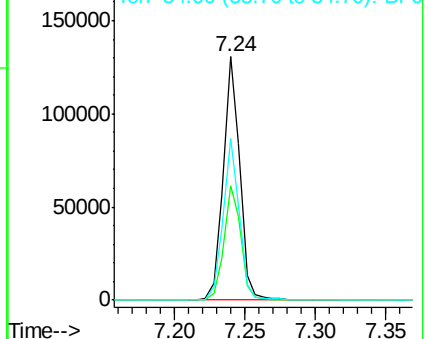
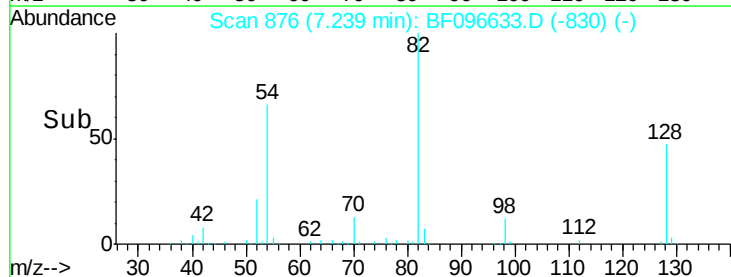
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 106289 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 47.1  | 34.0  | 51.0   |
| 54       | 66.4  | 42.2  | 63.2#  |

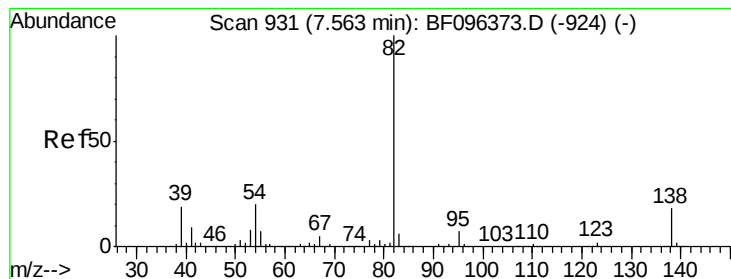


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.535 ng

RT: 7.24 min Scan# 876

Delta R.T. -0.29 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

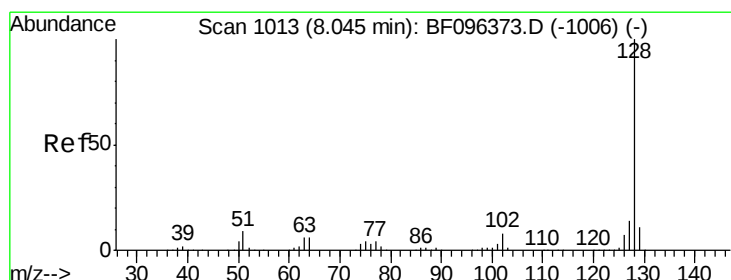
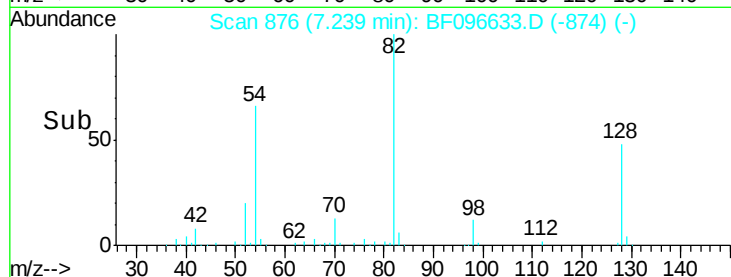
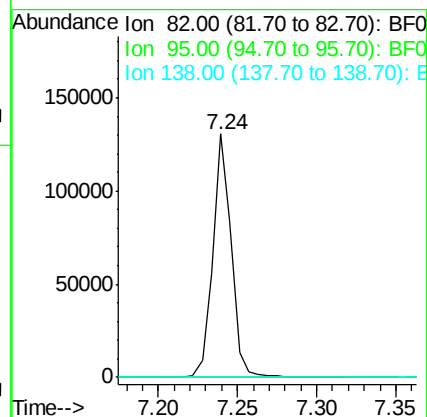
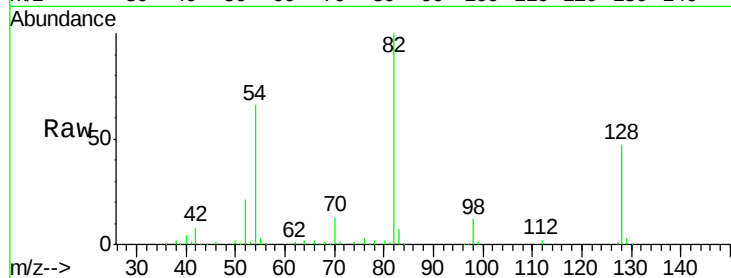
Instrument :

BNA\_F

ClientSampleId :

Tgt Ion: 82 Resp: 106071

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 95  | 0.0   | 5.3   | 7.9#  |
| 138 | 0.0   | 13.1  | 19.7# |



#31

Naphthalene

Concen: 3.573 ng

RT: 7.99 min Scan# 1003

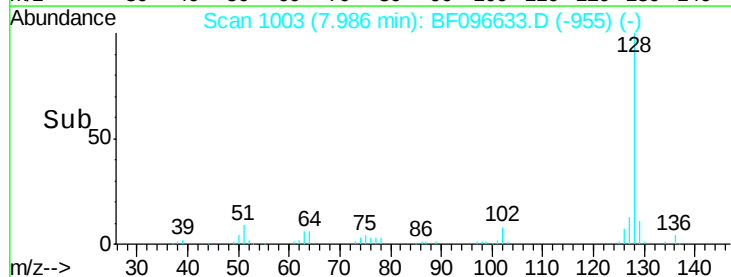
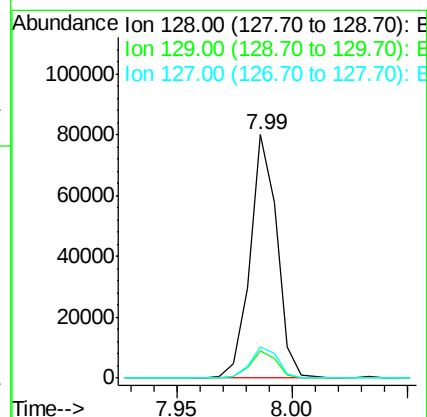
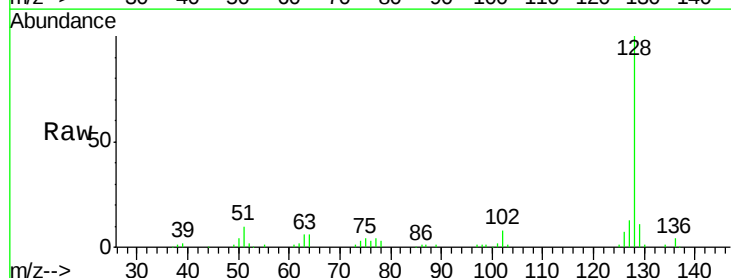
Delta R.T. -0.02 min

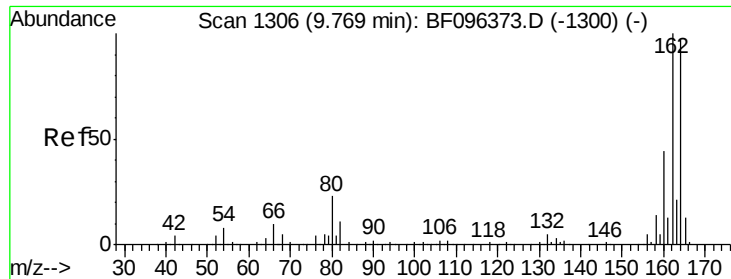
Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Tgt Ion: 128 Resp: 64965

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.0  | 9.0   | 13.6  |
| 127 | 13.0  | 10.8  | 16.2  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Instrument :

BNA\_F

ClientSampleId :

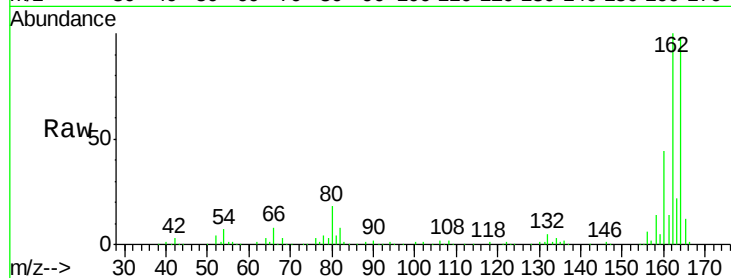
Tgt Ion:164 Resp: 156034

Ion Ratio Lower Upper

164 100

162 102.5 82.6 123.8

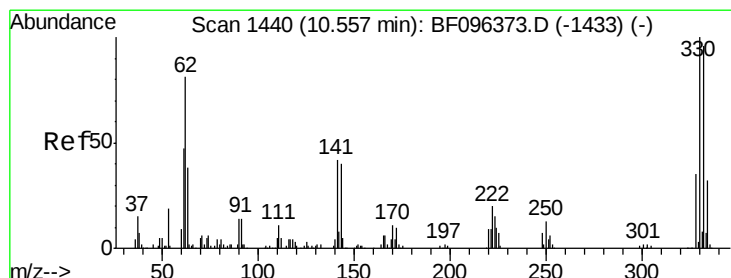
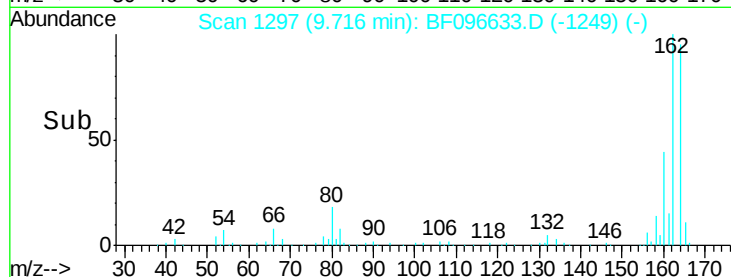
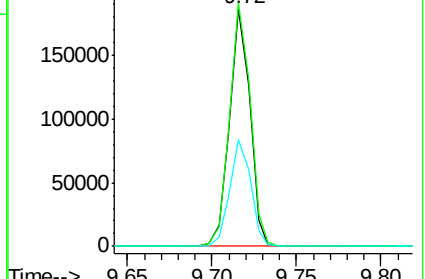
160 44.8 36.2 54.2



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: 27.637 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.02 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

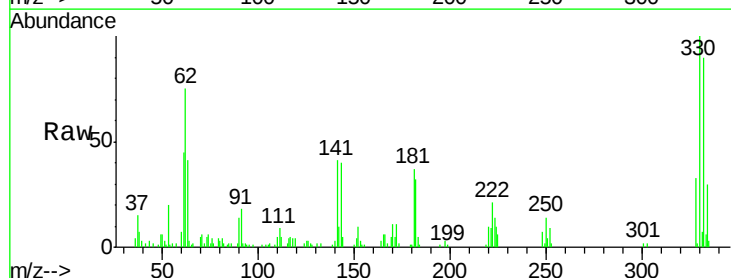
Tgt Ion:330 Resp: 33685

Ion Ratio Lower Upper

330 100

332 92.6 76.6 115.0

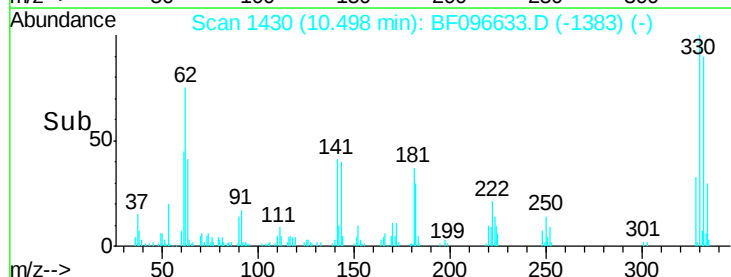
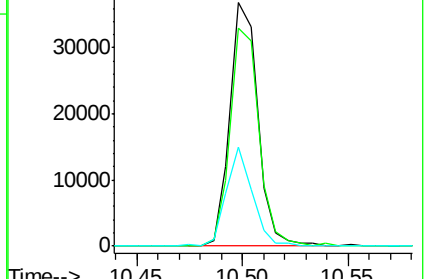
141 38.2 31.4 47.2

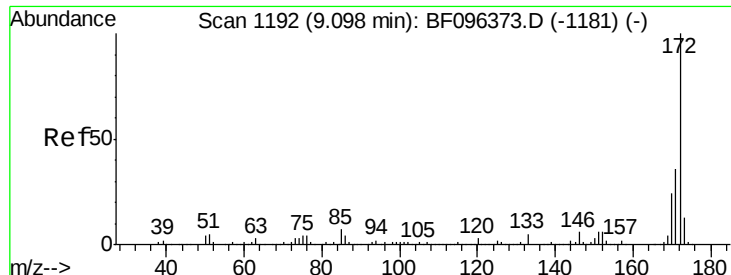


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

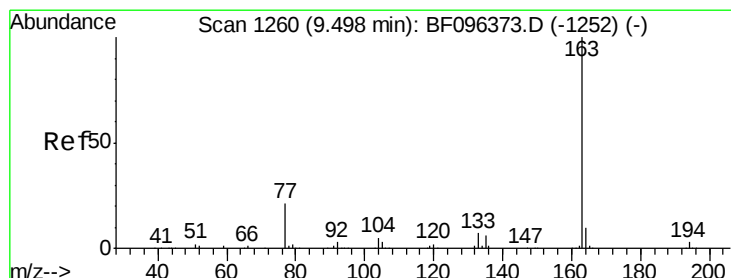
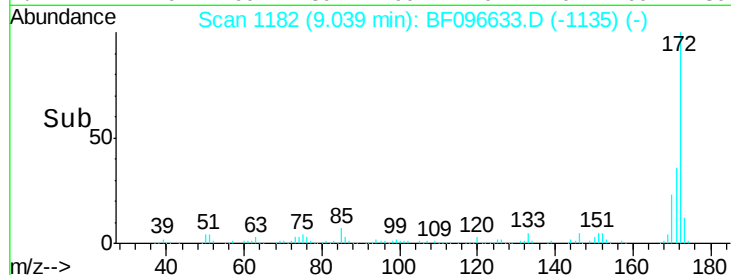
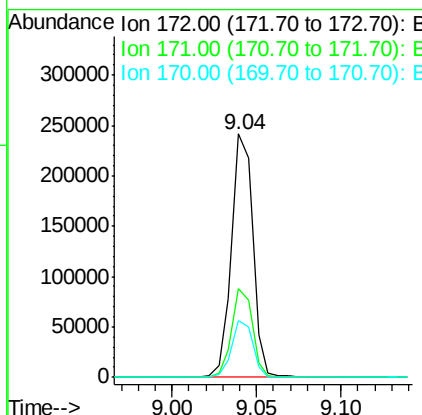
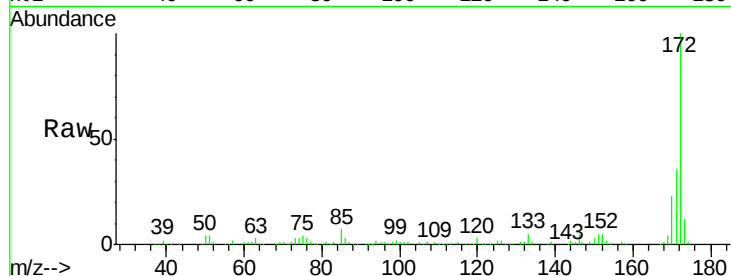




#44  
 2-Fluorobiphenyl  
 Concen: 23.332 ng  
 RT: 9.04 min Scan# 1182  
 Delta R.T. -0.02 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

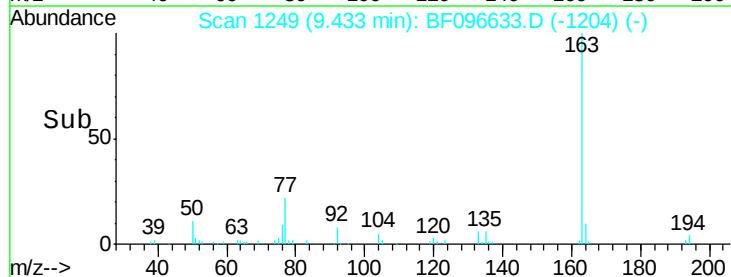
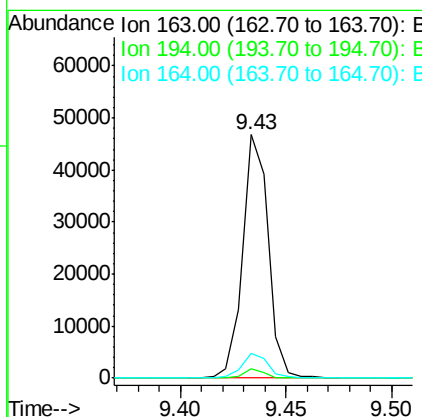
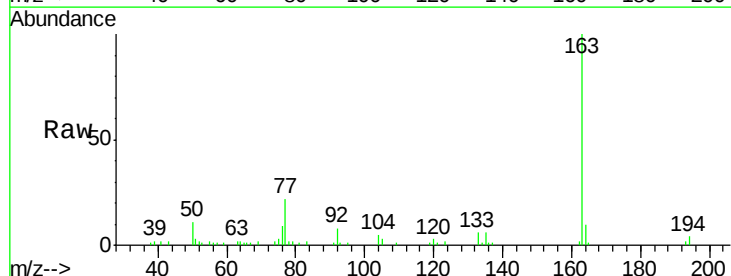
Instrument :  
 BNA\_F  
 ClientSampleId :

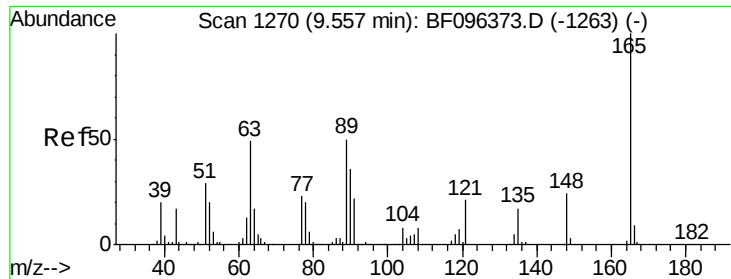
Tgt Ion:172 Resp: 212926  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.6 44.4  
 170 23.2 19.8 29.8



#49  
 Dimethylphthalate  
 Concen: 3.365 ng  
 RT: 9.43 min Scan# 1249  
 Delta R.T. -0.04 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

Tgt Ion:163 Resp: 39196  
 Ion Ratio Lower Upper  
 163 100  
 194 3.6 2.6 4.0  
 164 10.2 8.4 12.6

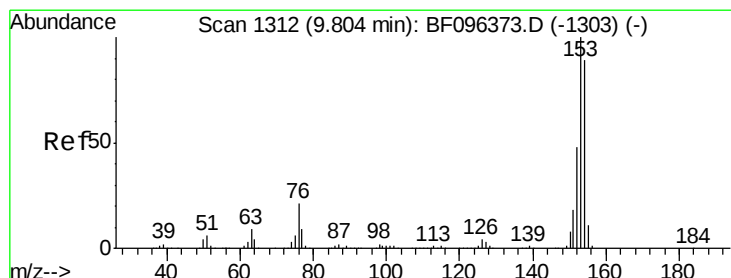
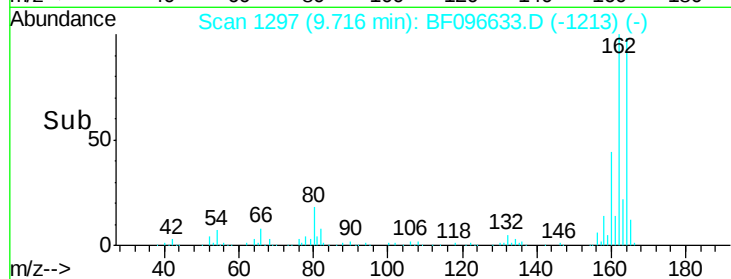
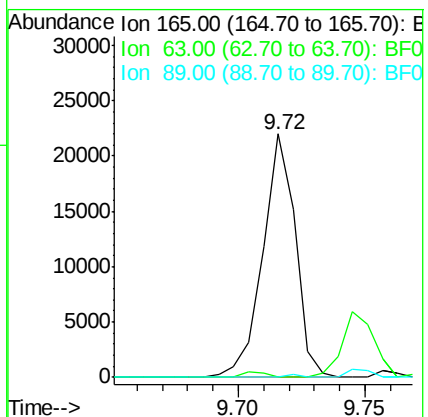
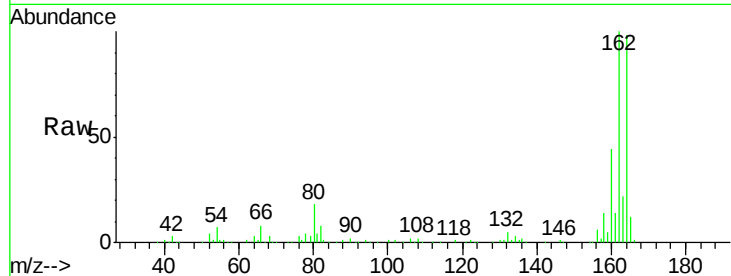




#50  
2,6-Dinitrotoluene  
Concen: 7.700 ng  
RT: 9.72 min Scan# 1297  
Delta R.T. 0.19 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

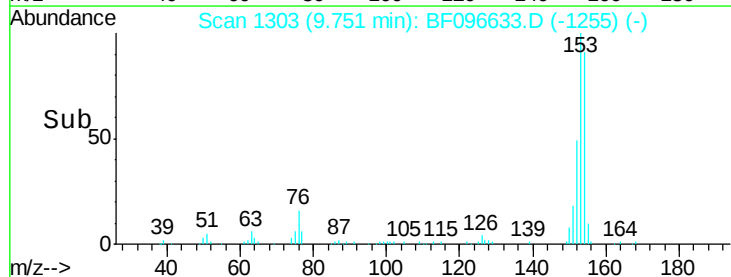
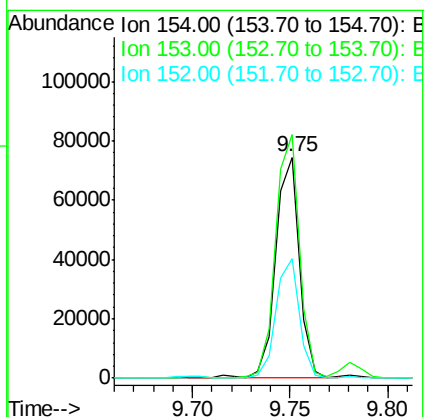
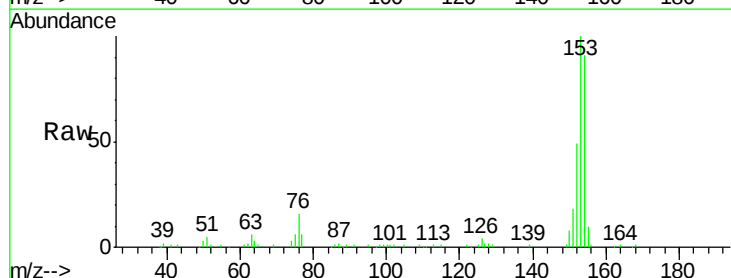
Instrument :  
BNA\_F  
ClientSampleId :

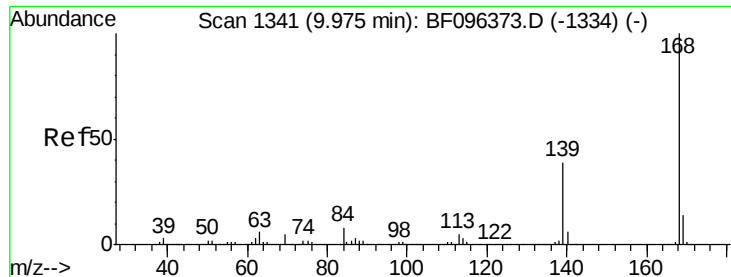
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



#51  
Acenaphthene  
Concen: 6.466 ng  
RT: 9.75 min Scan# 1303  
Delta R.T. -0.02 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 110.1 | 90.5  | 135.7 |
| 152     | 54.3  | 43.6  | 65.4  |

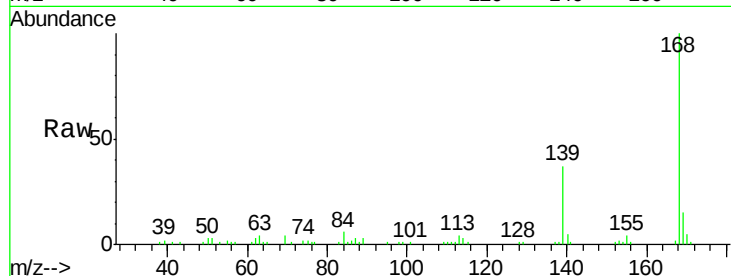




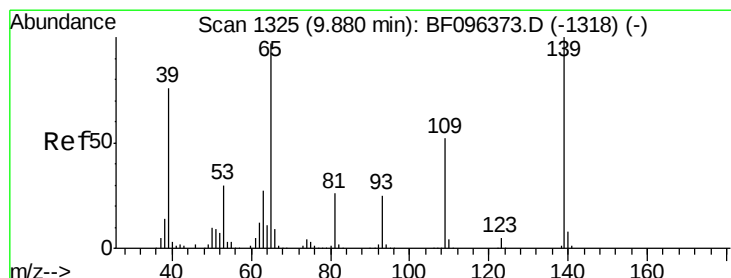
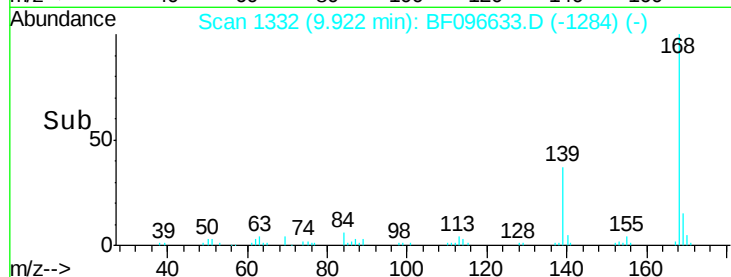
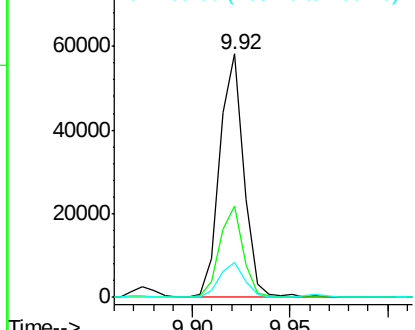
#54  
Dibenzofuran  
Concen: 3.865 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.02 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:168 Resp: 49663  
Ion Ratio Lower Upper  
168 100  
139 37.2 30.6 45.8  
169 14.5 10.8 16.2

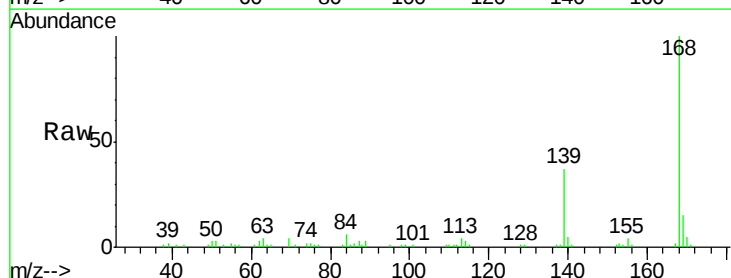


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

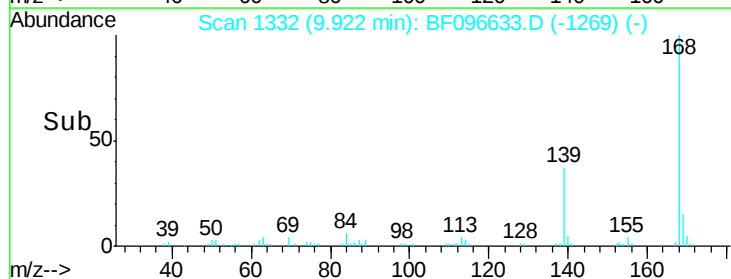
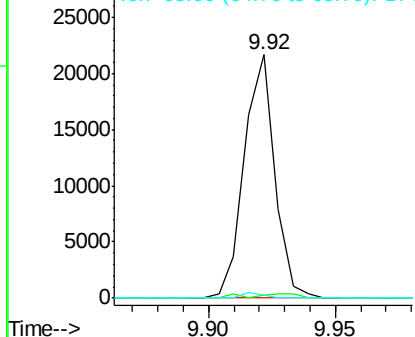


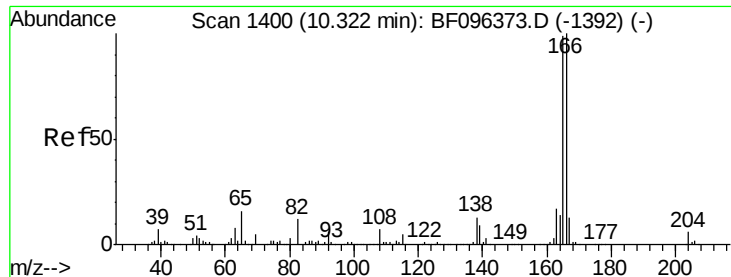
#55  
4-Nitrophenol  
Concen: 6.819 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. 0.07 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

Tgt Ion:139 Resp: 18159  
Ion Ratio Lower Upper  
139 100  
109 1.4 34.1 74.1#  
65 1.4 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

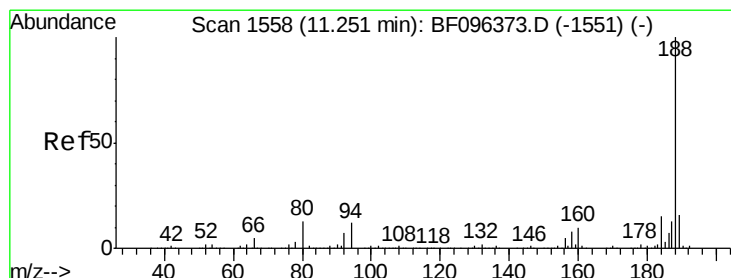
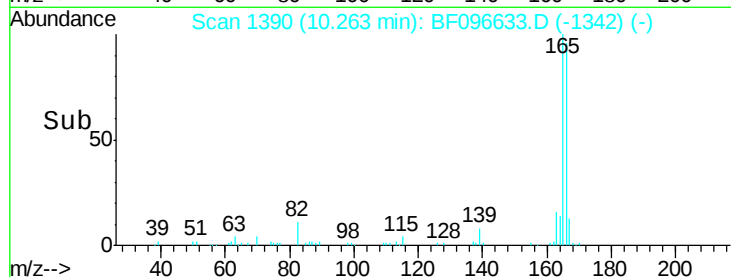
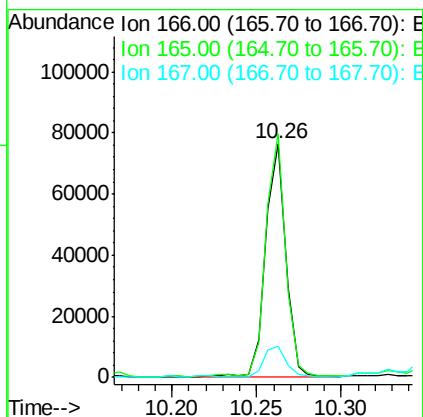
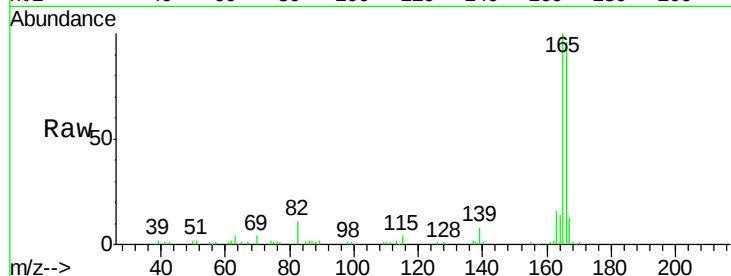




#57  
 Fluorene  
 Concen: 7.045 ng  
 RT: 10.26 min Scan# 1390  
 Delta R.T. -0.02 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

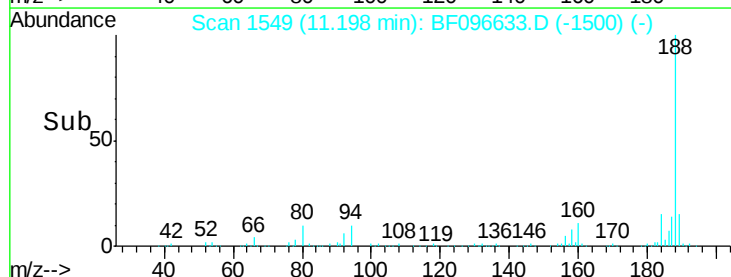
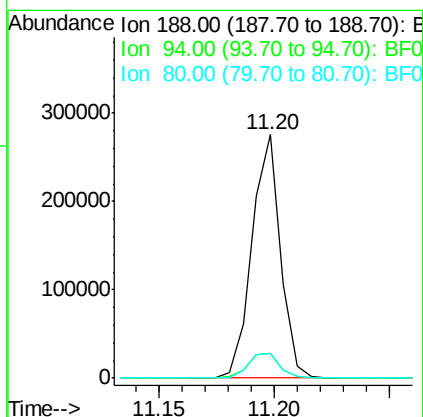
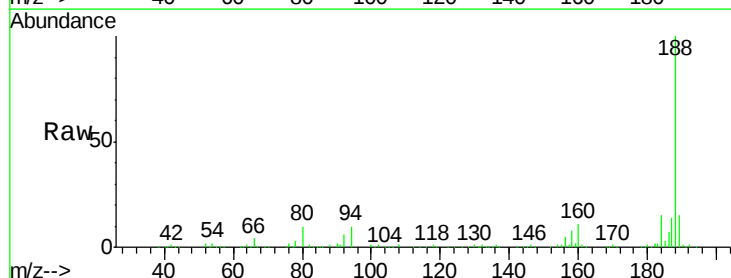
Instrument :  
 BNA\_F  
 ClientSampleId :

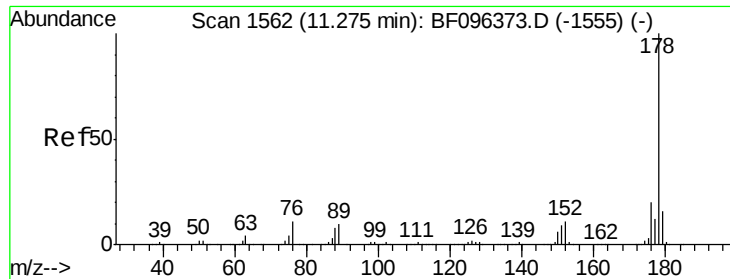
Tgt Ion:166 Resp: 63926  
 Ion Ratio Lower Upper  
 166 100  
 165 104.1 78.8 118.2  
 167 13.5 10.6 16.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.20 min Scan# 1549  
 Delta R.T. -0.01 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

Tgt Ion:188 Resp: 237954  
 Ion Ratio Lower Upper  
 188 100  
 94 10.2 9.4 14.2  
 80 10.4 10.2 15.2





#70

Phenanthrene

Concen: 39.917 ng

RT: 11.22 min Scan# 1553

Delta R.T. -0.02 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Instrument :

BNA\_F

ClientSampleId :

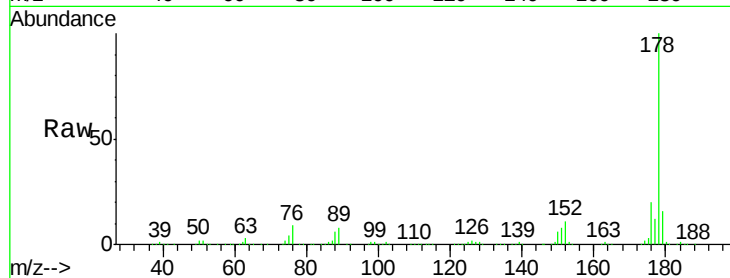
Tgt Ion:178 Resp: 513456

Ion Ratio Lower Upper

178 100

176 19.8 16.2 24.4

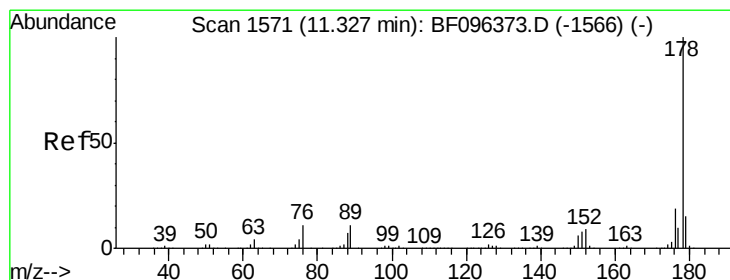
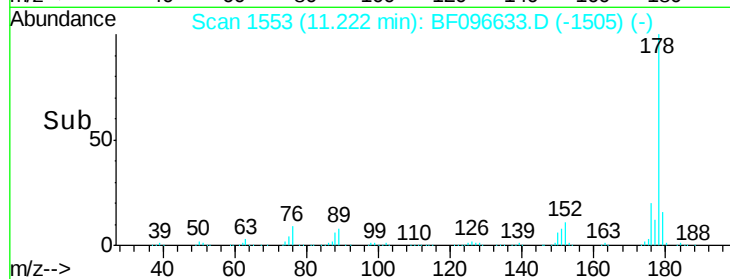
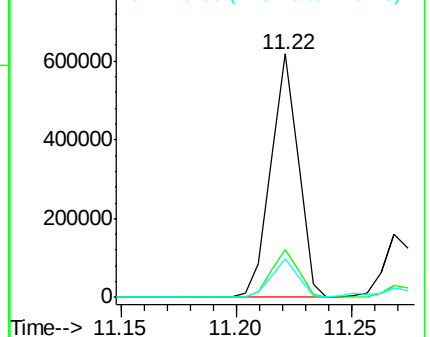
179 15.8 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 10.194 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.02 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

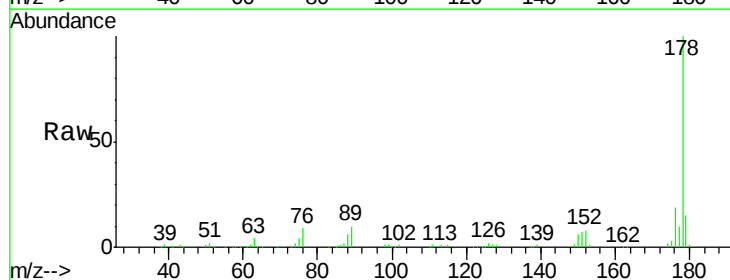
Tgt Ion:178 Resp: 133623

Ion Ratio Lower Upper

178 100

176 19.2 15.8 23.8

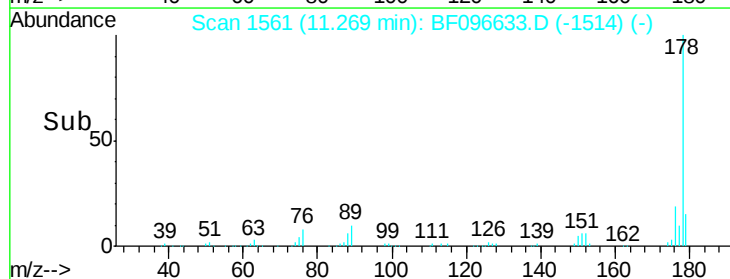
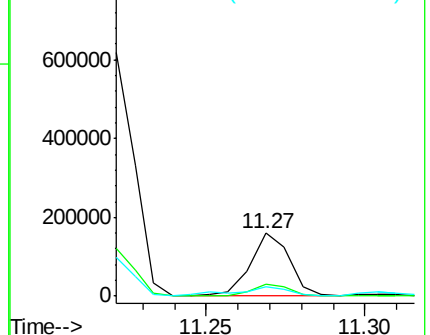
179 15.1 12.7 19.1

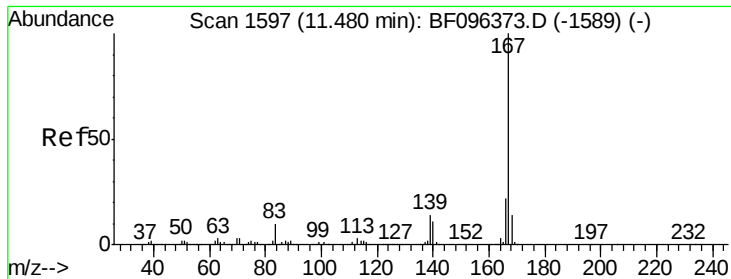


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

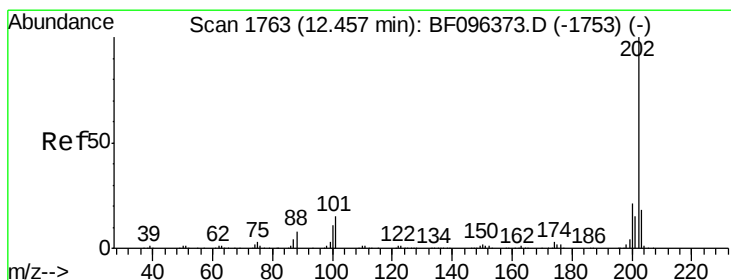
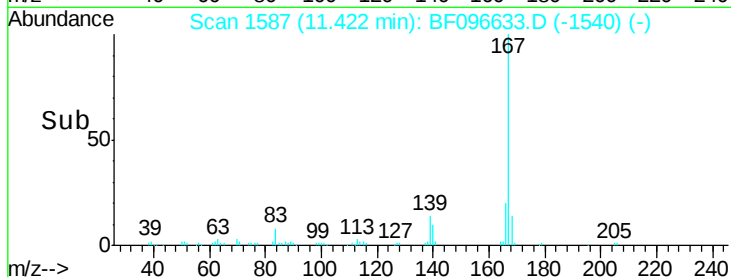
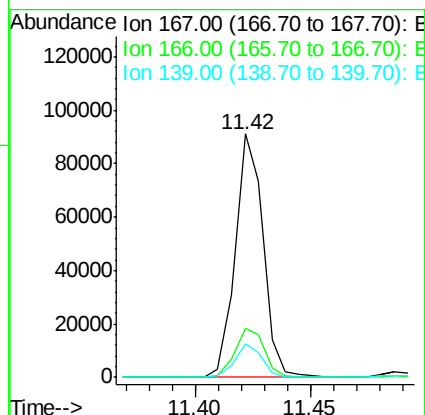
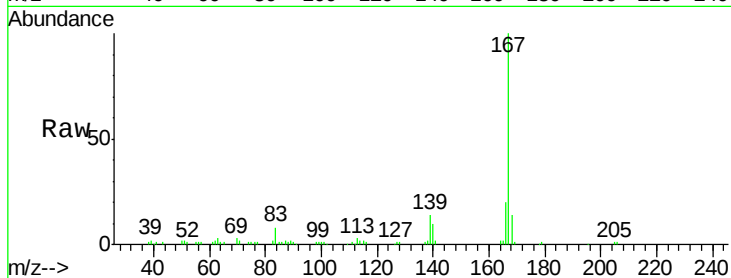




#72  
 Carbazole  
 Concen: 5.802 ng  
 RT: 11.42 min Scan# 1587  
 Delta R.T. -0.02 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

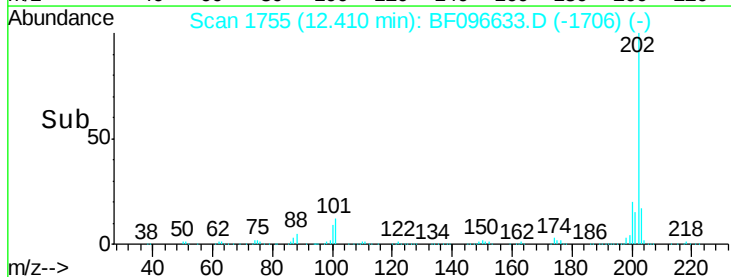
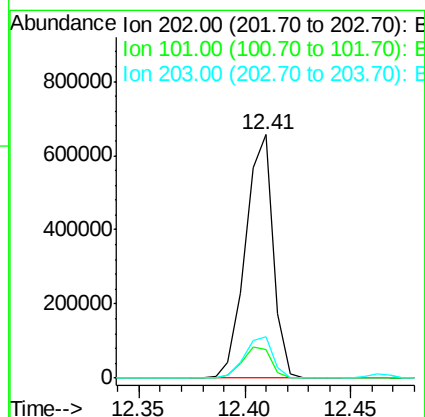
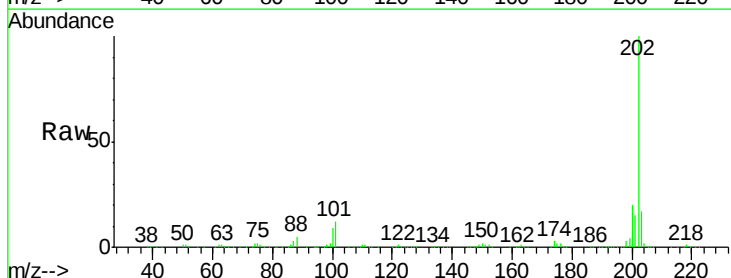
Instrument :  
 BNA\_F  
 ClientSampleId :

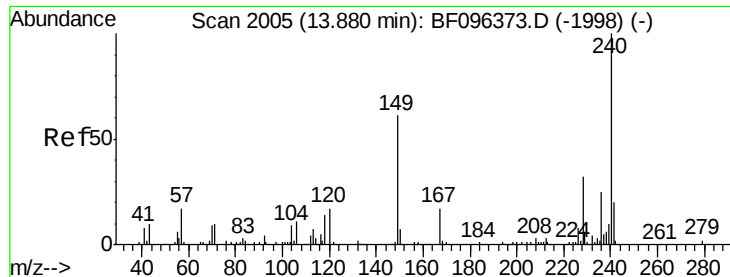
Tgt Ion:167 Resp: 76490  
 Ion Ratio Lower Upper  
 167 100  
 166 20.1 18.1 27.1  
 139 13.8 11.7 17.5



#74  
 Fluoranthene  
 Concen: 47.083 ng  
 RT: 12.41 min Scan# 1755  
 Delta R.T. -0.01 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

Tgt Ion:202 Resp: 593790  
 Ion Ratio Lower Upper  
 202 100  
 101 11.7 0.0 33.2  
 203 17.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Instrument :

BNA\_F

ClientSampleId :

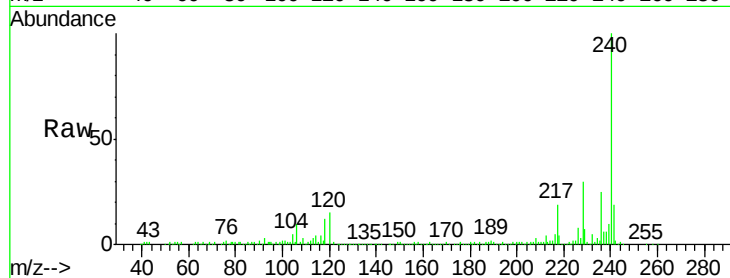
Tgt Ion:240 Resp: 183710

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

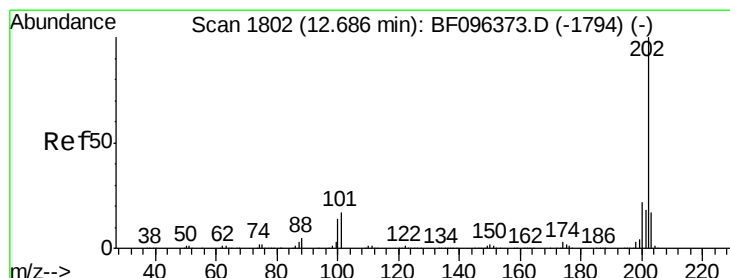
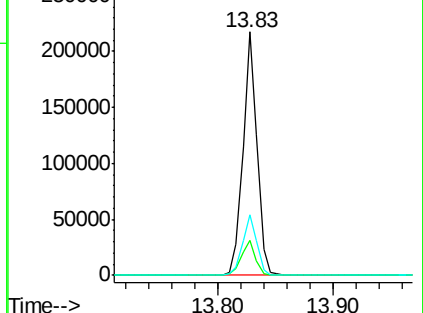
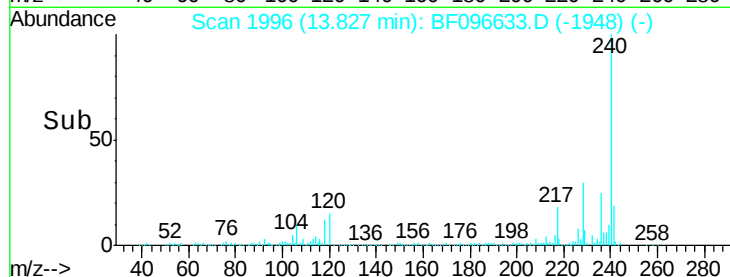
236 24.9 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 33.377 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.02 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

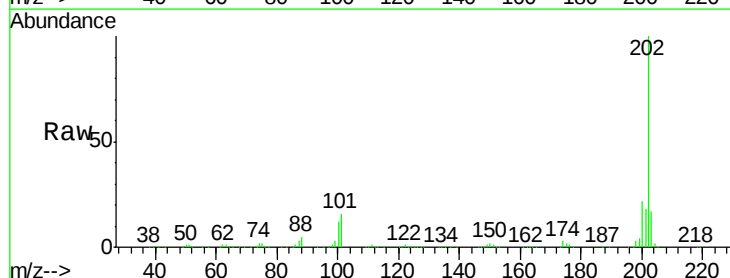
Tgt Ion:202 Resp: 492180

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

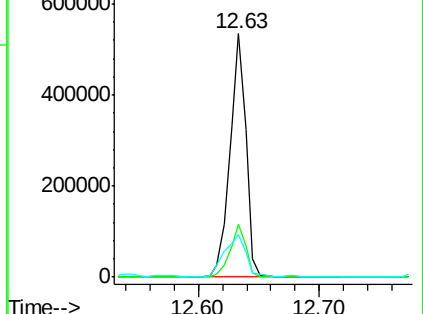
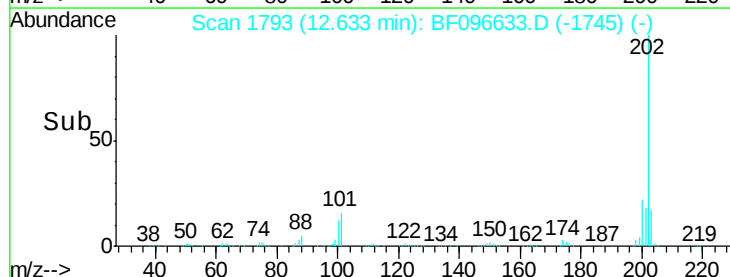
203 17.5 14.4 21.6

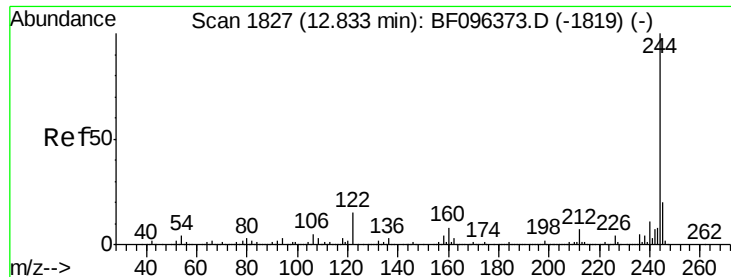


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

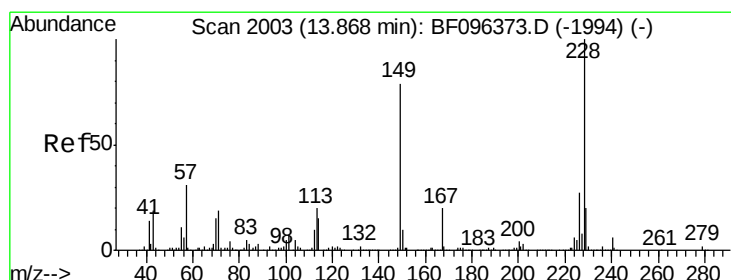
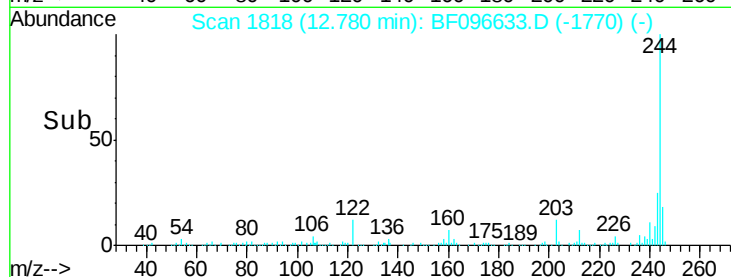
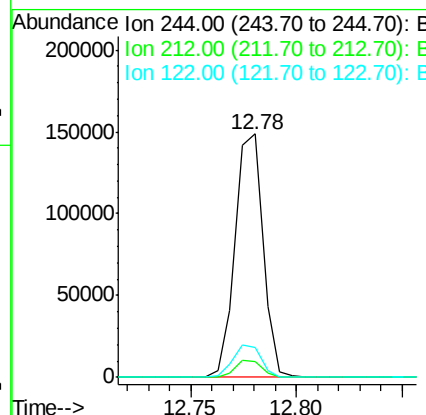
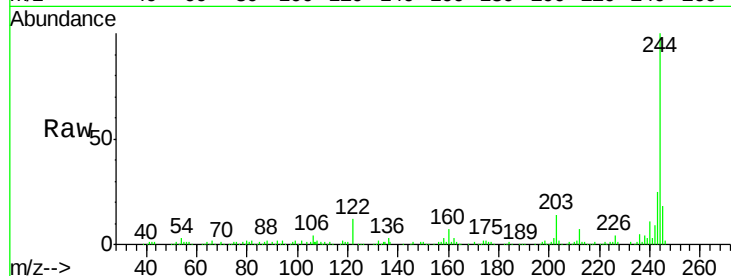




#78  
 Terphenyl-d14  
 Concen: 15.791 ng  
 RT: 12.78 min Scan# 1818  
 Delta R.T. -0.02 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

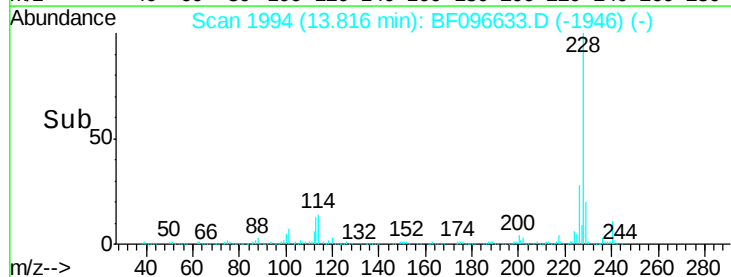
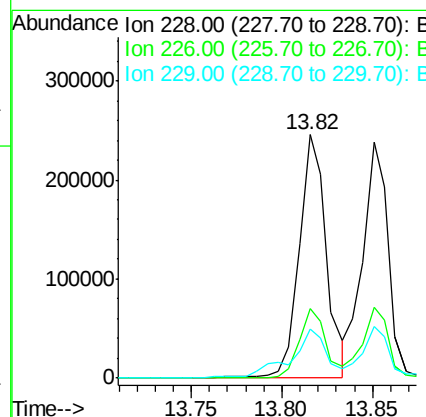
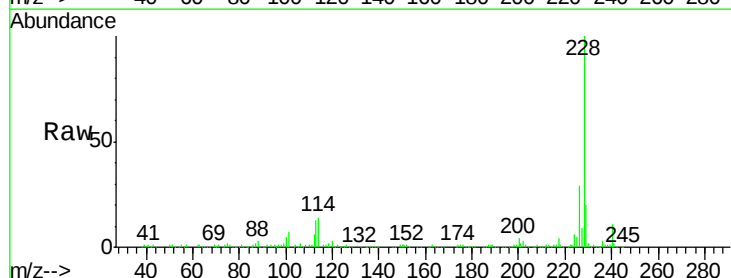
Instrument :  
 BNA\_F  
 ClientSampleId :

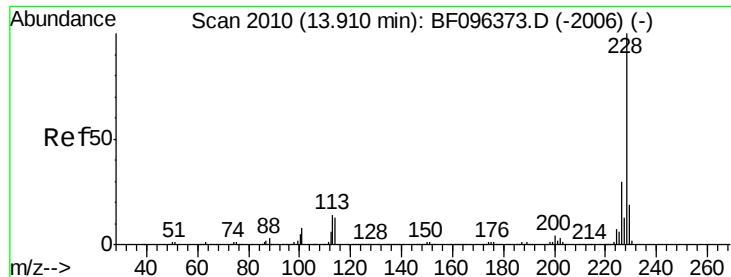
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 6.0   | 9.0   |
| 122     | 12.4  | 10.3  | 15.5  |



#80  
 Benzo(a)anthracene  
 Concen: 24.546 ng  
 RT: 13.82 min Scan# 1994  
 Delta R.T. -0.02 min  
 Lab File: BF096633.D  
 Acq: 11 Jul 2017 8:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 22.6  | 33.8  |
| 229     | 20.1  | 16.3  | 24.5  |





#82

Chrysene

Concen: 21.013 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.02 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Instrument :

BNA\_F

ClientSampleId :

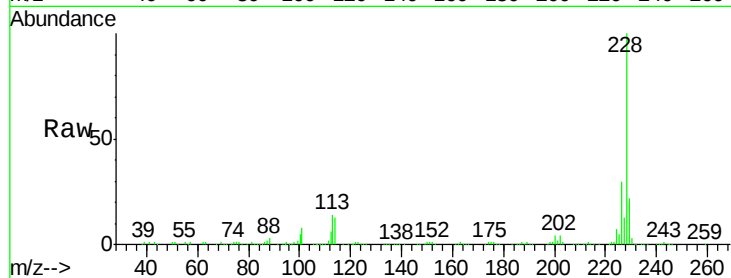
Tgt Ion: 228 Resp: 234098

Ion Ratio Lower Upper

228 100

226 30.1 24.9 37.3

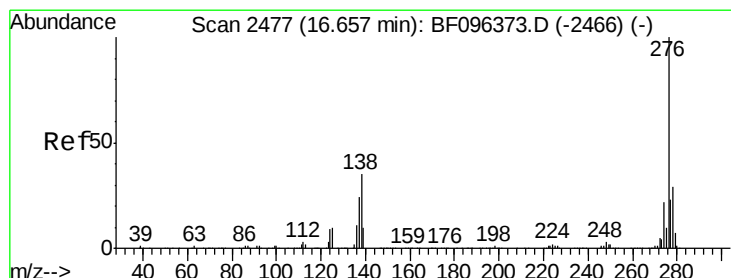
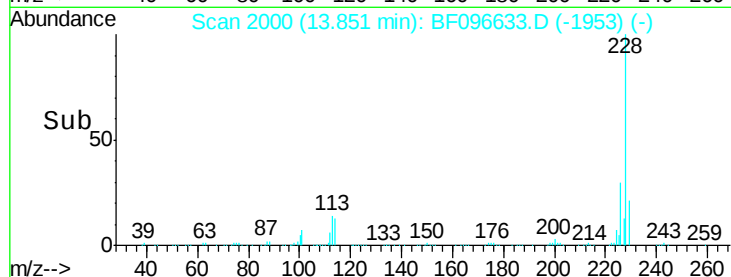
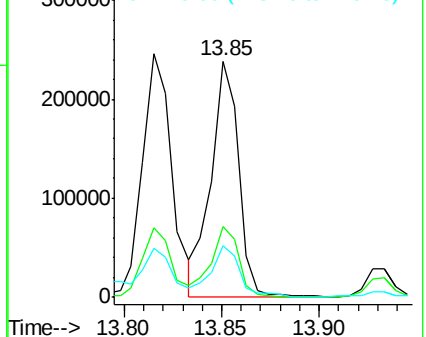
229 21.8 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.136 ng

RT: 16.56 min Scan# 2461

Delta R.T. -0.04 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

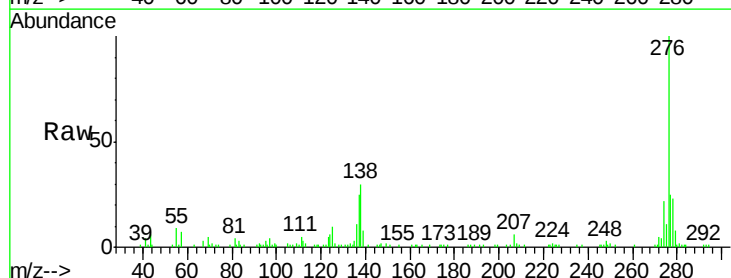
Tgt Ion: 276 Resp: 89137

Ion Ratio Lower Upper

276 100

138 30.0 27.8 41.6

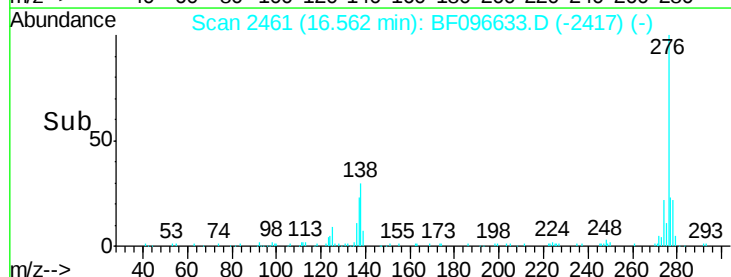
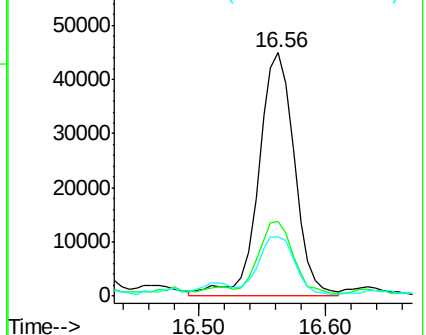
277 24.0 20.2 30.4

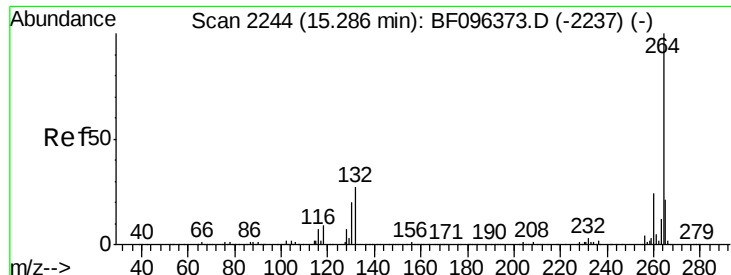


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



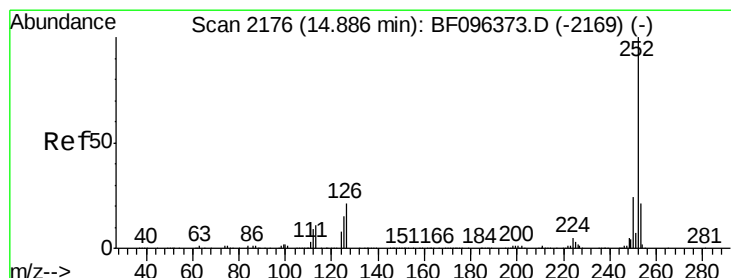
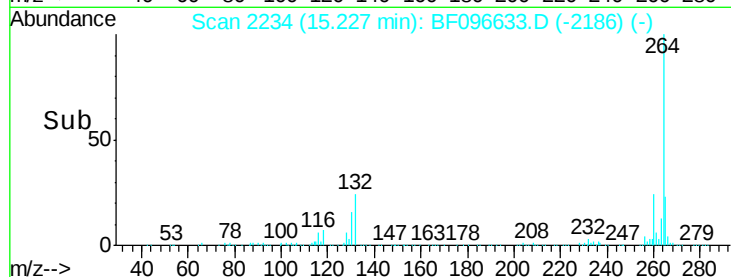
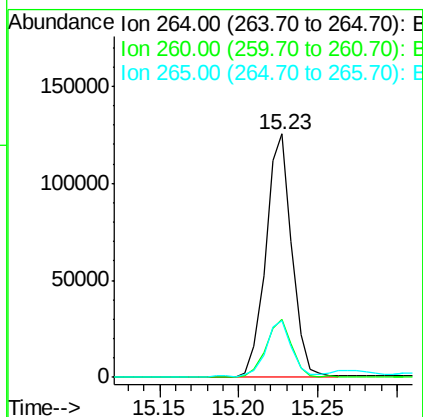
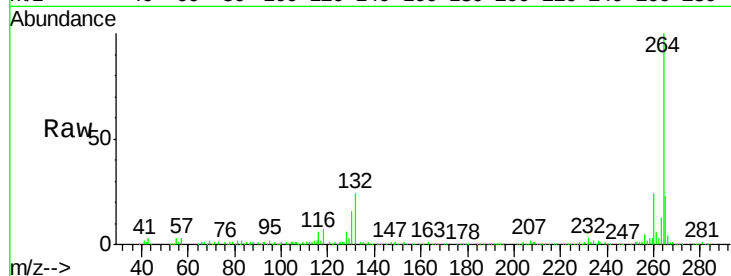


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.23 min Scan# 2234  
Delta R.T. -0.02 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion: 264 Resp: 144733  

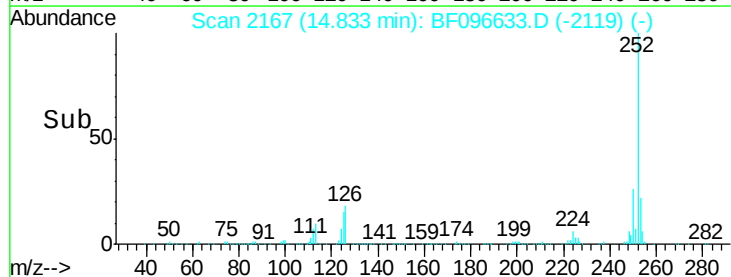
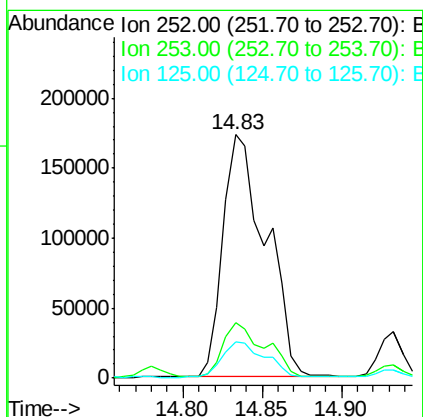
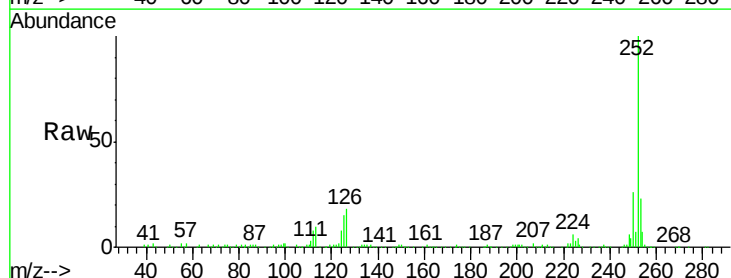
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 19.5  | 29.3  |
| 265 | 23.1  | 17.2  | 25.8  |

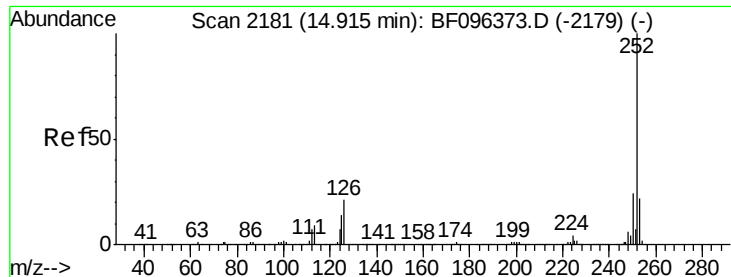


#87  
Benzo(b)fluoranthene  
Concen: 36.133 ng  
RT: 14.83 min Scan# 2167  
Delta R.T. -0.02 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

Tgt Ion: 252 Resp: 327685  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.7  | 18.1  | 27.1  |
| 125 | 15.1  | 9.8   | 14.8# |

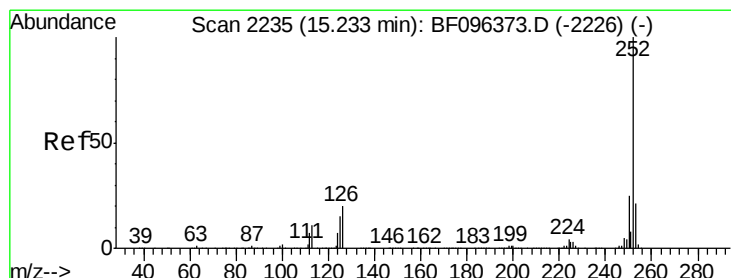
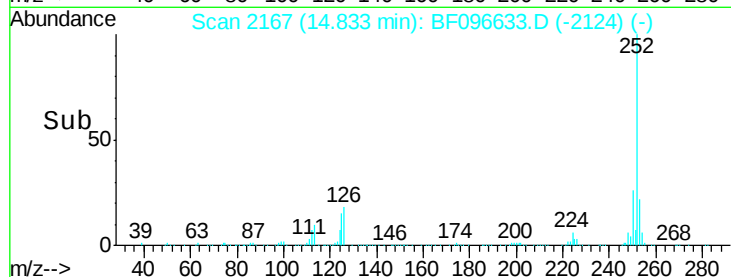
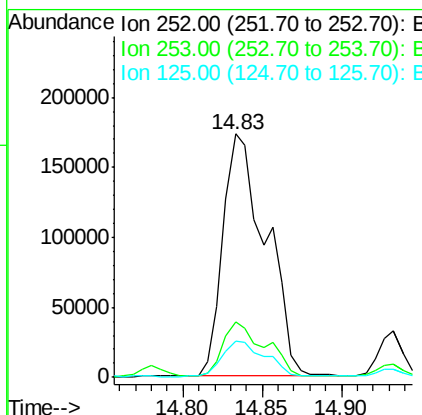
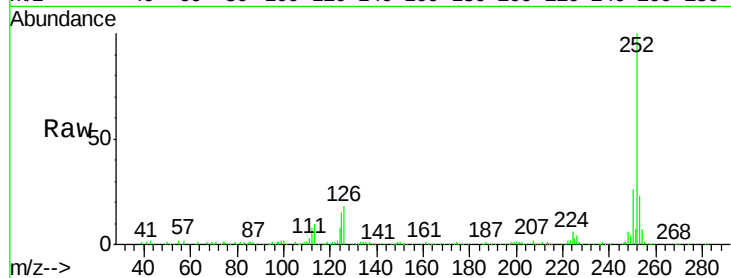




#88  
Benzo(k)fluoranthene  
Concen: 40.394 ng  
RT: 14.83 min Scan# 2167  
Delta R.T. -0.05 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

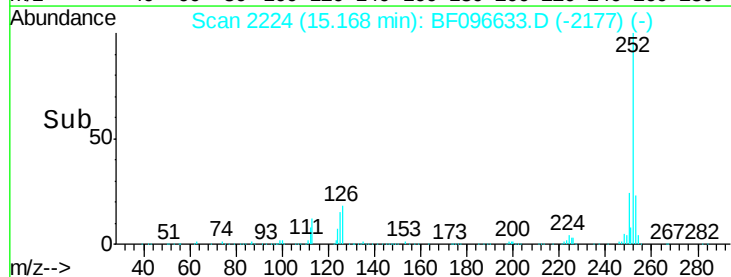
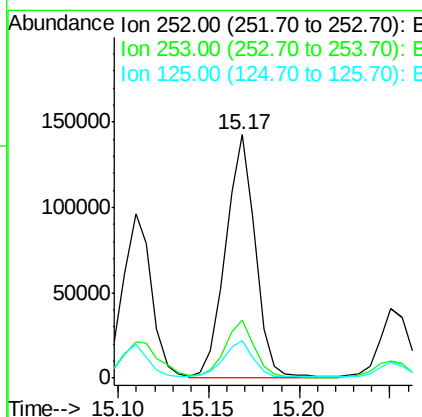
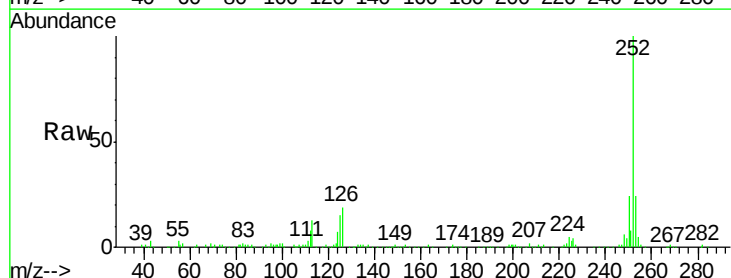
Instrument :  
BNA\_F  
ClientSampleId :

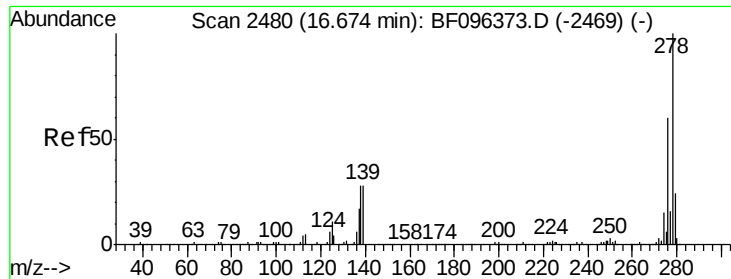
Tgt Ion:252 Resp: 327685  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.4 27.6  
125 15.1 13.1 19.7



#89  
Benzo(a)pyrene  
Concen: 19.861 ng  
RT: 15.17 min Scan# 2224  
Delta R.T. -0.02 min  
Lab File: BF096633.D  
Acq: 11 Jul 2017 8:39

Tgt Ion:252 Resp: 160805  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.5 26.3  
125 15.2 11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.050 ng

RT: 16.72 min Scan# 2488

Delta R.T. 0.11 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

Instrument :

BNA\_F

ClientSampleId :

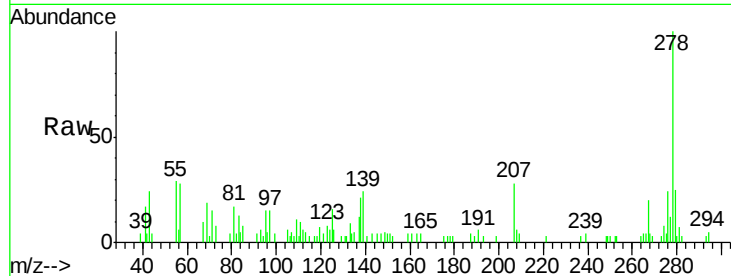
Tgt Ion: 278 Resp: 19429

Ion Ratio Lower Upper

278 100

139 23.6 16.6 24.8

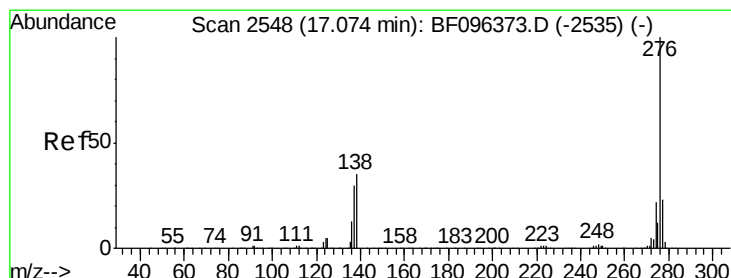
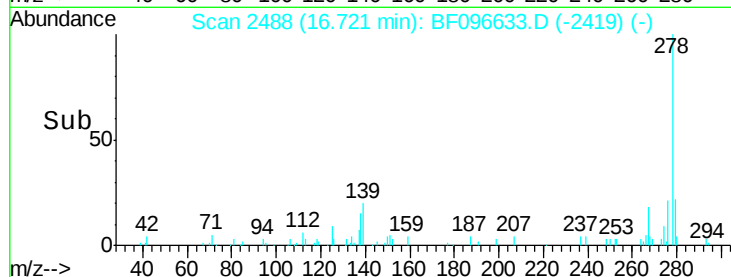
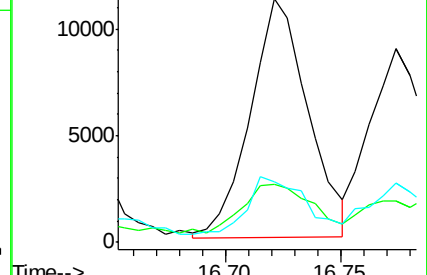
279 25.1 19.3 28.9



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: 11.305 ng

RT: 16.96 min Scan# 2529

Delta R.T. -0.04 min

Lab File: BF096633.D

Acq: 11 Jul 2017 8:39

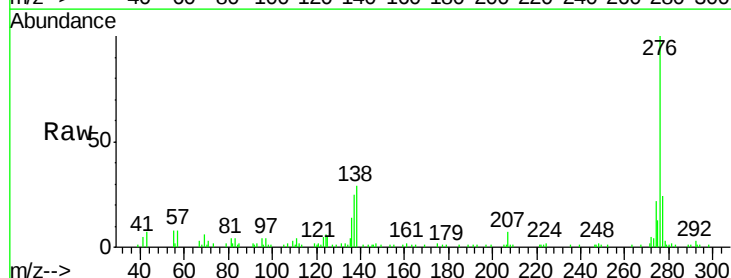
Tgt Ion: 276 Resp: 74616

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 28.5 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

