

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF100318\  
 Data File : BF109554.D  
 Acq On : 3 Oct 2018 18:44  
 Operator : JU/SJ  
 Sample : J5198-07 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 04 02:18:16 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 22 13:32:18 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 79763    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.99  | 136  | 279925   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.73  | 164  | 116054   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.21 | 188  | 240011   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.84 | 240  | 233974   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.24 | 264  | 166225   | 20.00 | ng    | 0.00     |

|                             |       |     |        |       |    |       |
|-----------------------------|-------|-----|--------|-------|----|-------|
| System Monitoring Compounds |       |     |        |       |    |       |
| 5) 2-Fluorophenol           | 5.32  | 112 | 130843 | 27.02 | ng | 0.00  |
| 7) Phenol-d6                | 6.35  | 99  | 180770 | 29.25 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.26  | 82  | 104441 | 22.02 | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330 | 40563  | 35.46 | ng | -0.02 |
| 44) 2-Fluorobiphenyl        | 9.06  | 172 | 180072 | 23.40 | ng | -0.02 |
| 78) Terphenyl-d14           | 12.79 | 244 | 213350 | 22.38 | ng | -0.01 |

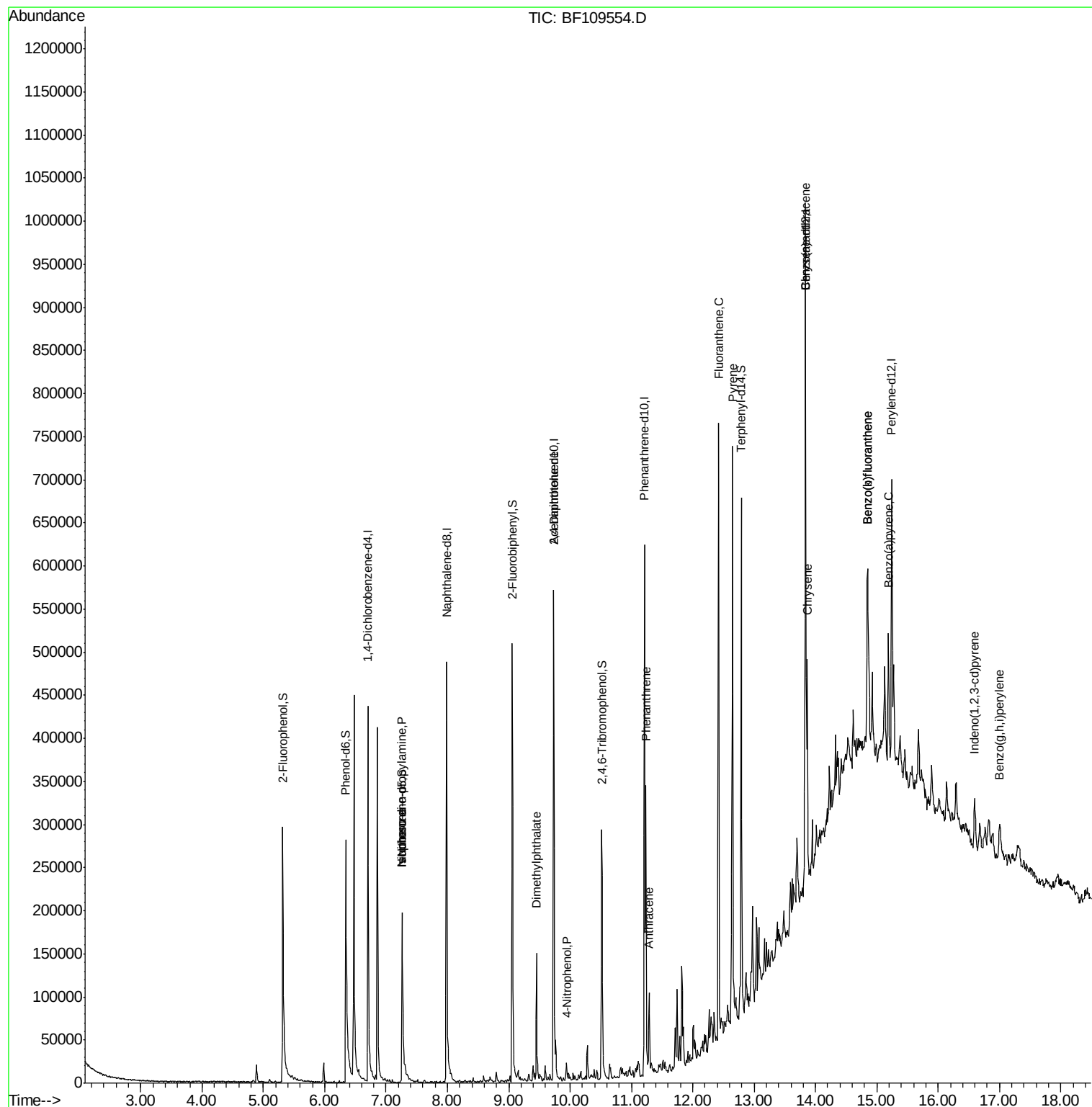
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70  | 13322  | 3.290  | ng | # 78 |
| 25) Isophorone                 | 7.26  | 82  | 94950  | 11.120 | ng | # 64 |
| 49) Dimethylphthalate          | 9.45  | 163 | 58699  | 6.954  | ng | 99   |
| 55) 4-Nitrophenol              | 9.94  | 139 | 3372   | 2.312  | ng | # 9  |
| 56) 2,4-Dinitrotoluene         | 9.73  | 165 | 14934  | 7.060  | ng | # 21 |
| 70) Phenanthrene               | 11.23 | 178 | 122048 | 10.185 | ng | 98   |
| 71) Anthracene                 | 11.29 | 178 | 43073  | 3.544  | ng | 97   |
| 74) Fluoranthene               | 12.42 | 202 | 307590 | 24.018 | ng | 96   |
| 77) Pyrene                     | 12.65 | 202 | 280981 | 16.756 | ng | 99   |
| 80) Benzo(a)anthracene         | 13.83 | 228 | 129532 | 9.191  | ng | 98   |
| 82) Chrysene                   | 13.86 | 228 | 115283 | 8.253  | ng | 96   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.60 | 276 | 38756  | 3.423  | ng | # 90 |
| 87) Benzo(b)fluoranthene       | 14.85 | 252 | 146951 | 16.088 | ng | # 95 |
| 88) Benzo(k)fluoranthene       | 14.85 | 252 | 146951 | 16.954 | ng | 98   |
| 89) Benzo(a)pyrene             | 15.19 | 252 | 71766  | 8.720  | ng | # 95 |
| 91) Benzo(g,h,i)perylene       | 17.00 | 276 | 38692  | 5.831  | ng | # 90 |

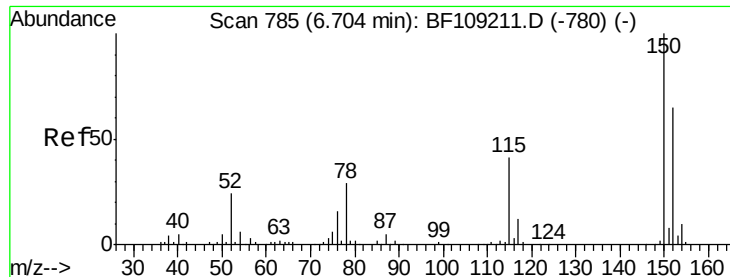
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J5198-07 2X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :

Quant Time: Oct 04 02:18:16 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 22 13:32:18 2018  
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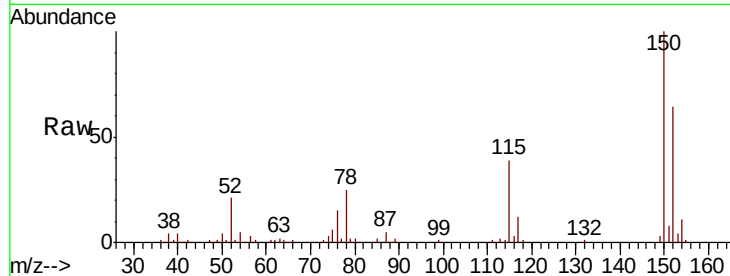




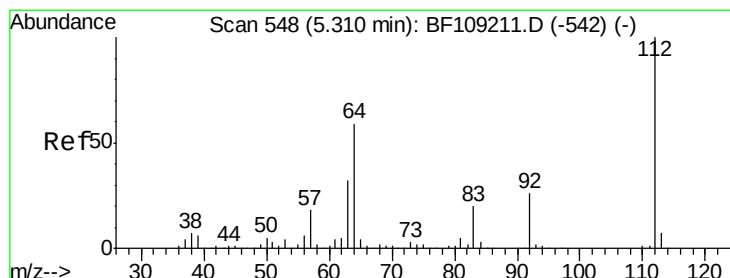
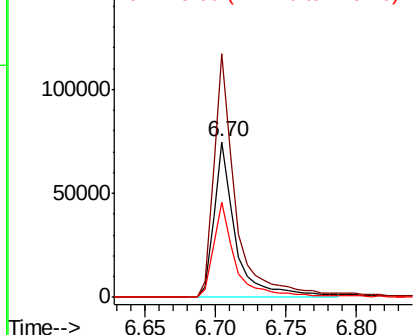
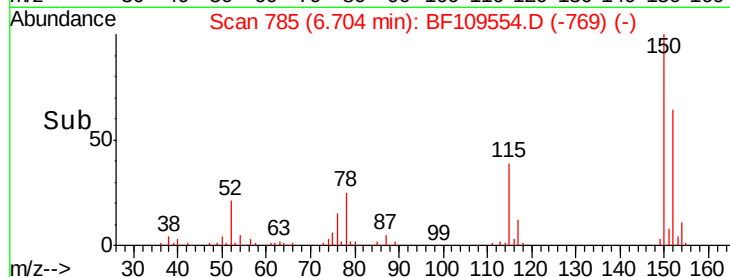
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.70 min Scan# 785  
 Delta R.T. -0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Instrument :  
 BNA\_F  
 ClientSampleId :

Tgt Ion:152 Resp: 79763  
 Ion Ratio Lower Upper  
 152 100  
 150 156.5 124.6 186.8  
 115 60.9 50.1 75.1

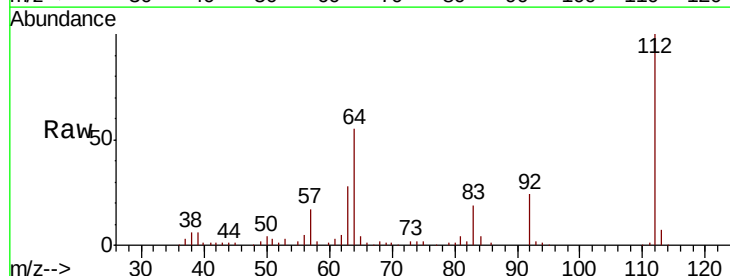


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

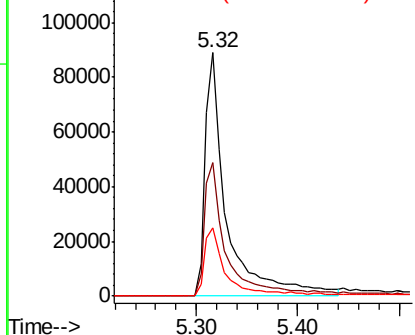
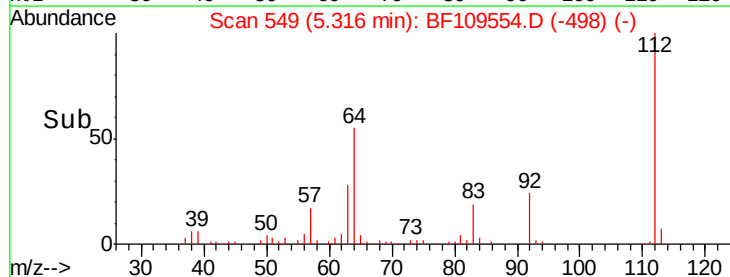


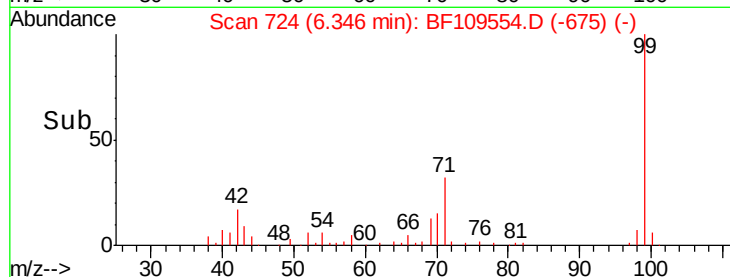
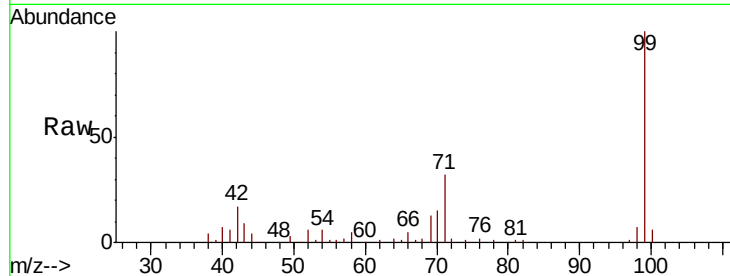
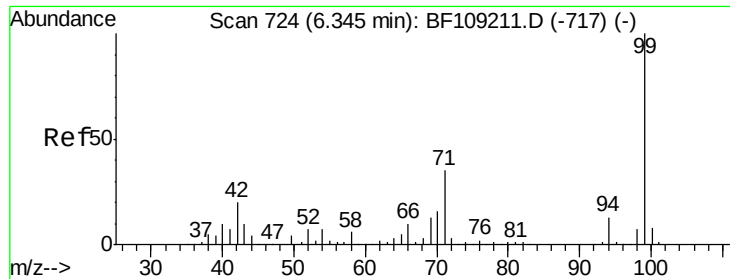
#5  
 2-Fluorophenol  
 Concen: 27.019 ng  
 RT: 5.32 min Scan# 549  
 Delta R.T. 0.00 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Tgt Ion:112 Resp: 130843  
 Ion Ratio Lower Upper  
 112 100  
 64 55.0 47.9 71.9  
 63 27.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF1  
 Ion 63.00 (62.70 to 63.70): BF1

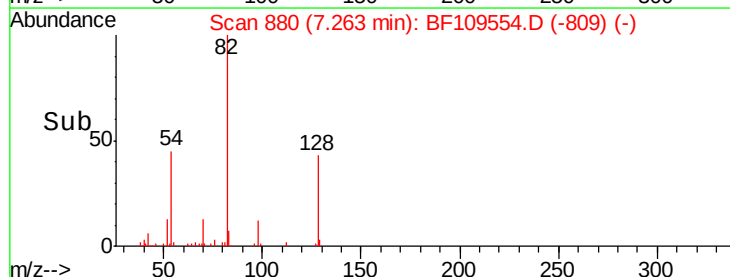
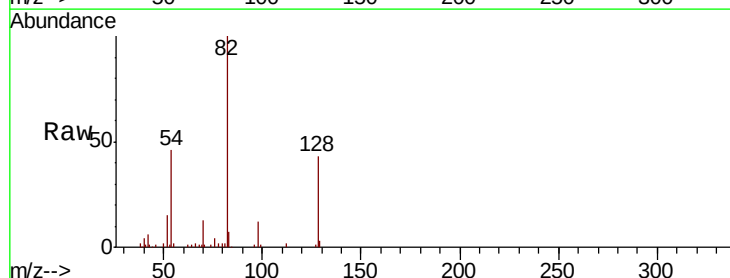
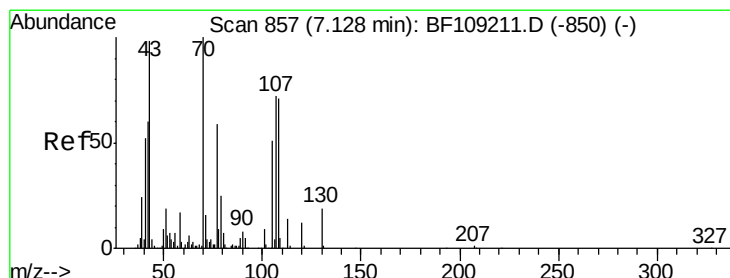
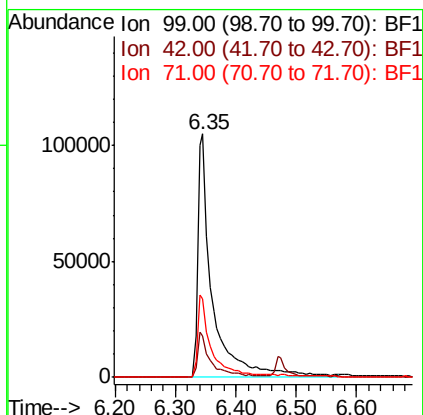




#7  
Phenol-d6  
Concen: 29.253 ng  
RT: 6.35 min Scan# 724  
Delta R.T. -0.01 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

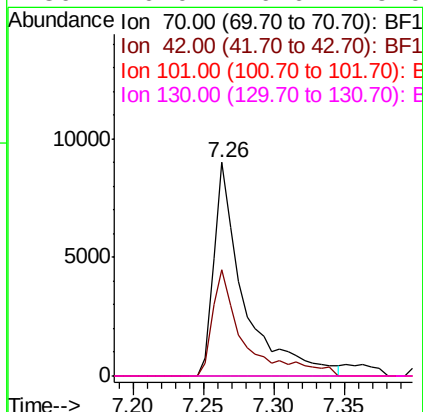
Instrument :  
BNA\_F  
ClientSampled :

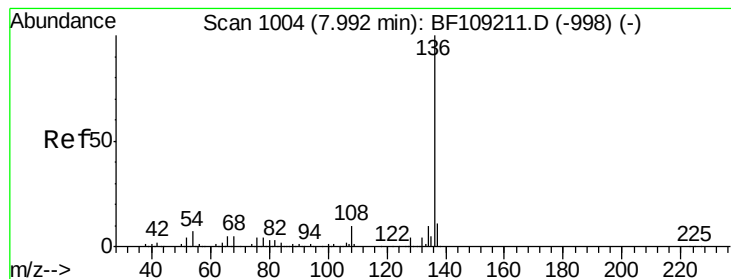
Tgt Ion: 99 Resp: 180770  
Ion Ratio Lower Upper  
99 100  
42 17.2 14.5 21.7  
71 32.2 25.4 38.0



#19  
n-Nitroso-di-n-propylamine  
Concen: 3.290 ng  
RT: 7.26 min Scan# 880  
Delta R.T. 0.12 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

Tgt Ion: 70 Resp: 13322  
Ion Ratio Lower Upper  
70 100  
42 49.6 47.5 71.3  
101 0.0 7.4 11.2#  
130 0.0 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF109554.D

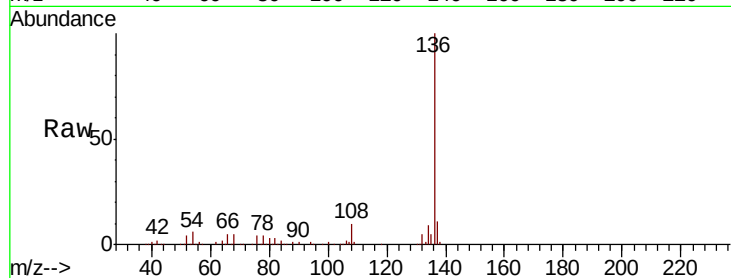
Acq: 3 Oct 2018 18:44

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 279925 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.9   | 13.3   |
| 54       | 6.3   | 6.6   | 9.8#   |
| 68       | 5.0   | 5.0   | 7.4    |

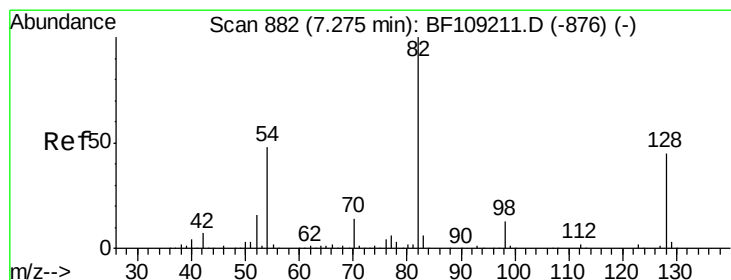
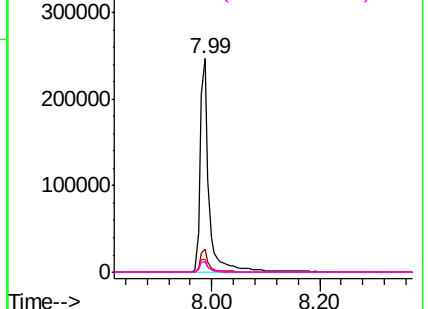
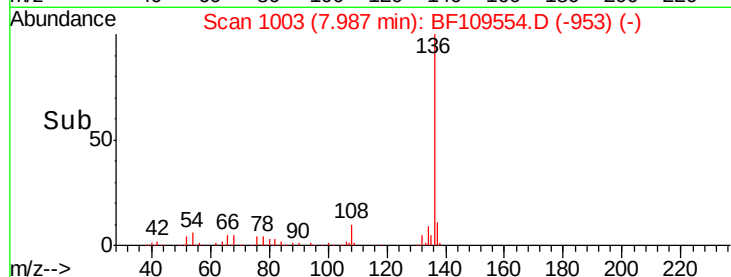


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 22.025 ng

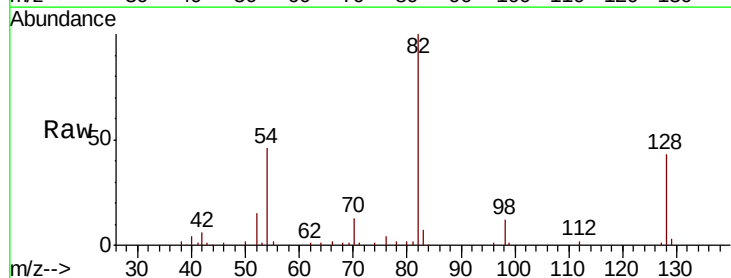
RT: 7.26 min Scan# 880

Delta R.T. -0.02 min

Lab File: BF109554.D

Acq: 3 Oct 2018 18:44

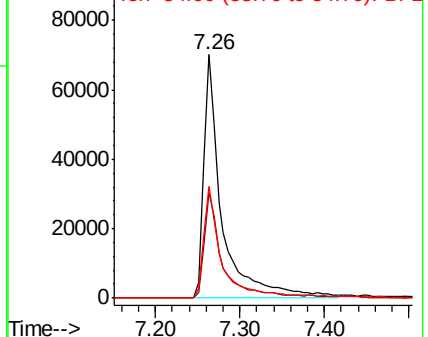
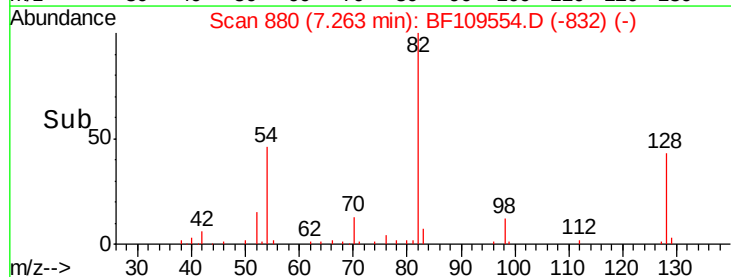
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 104441 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.1  | 36.1  | 54.1   |
| 54       | 46.0  | 41.4  | 62.2   |

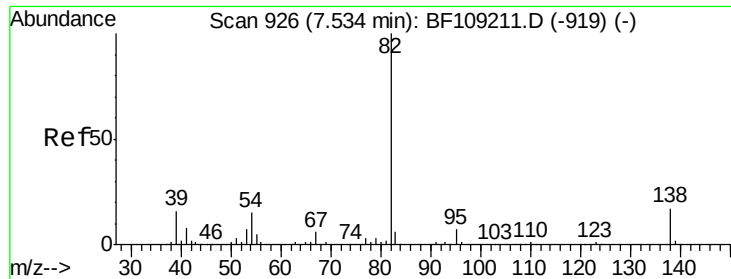


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

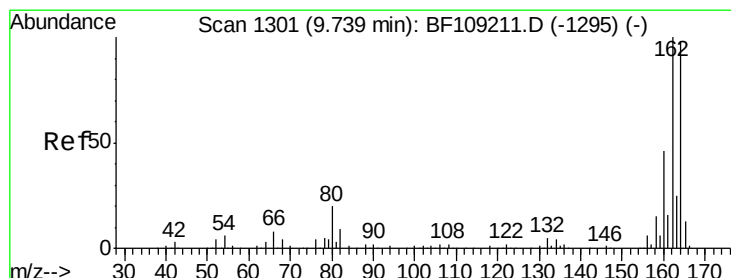
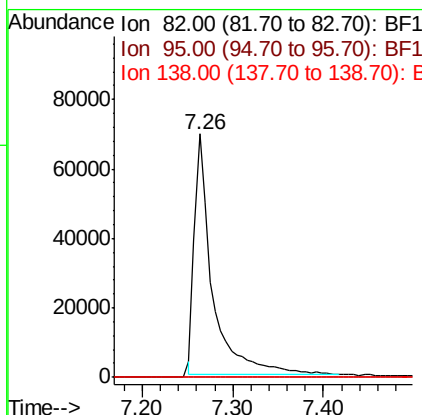
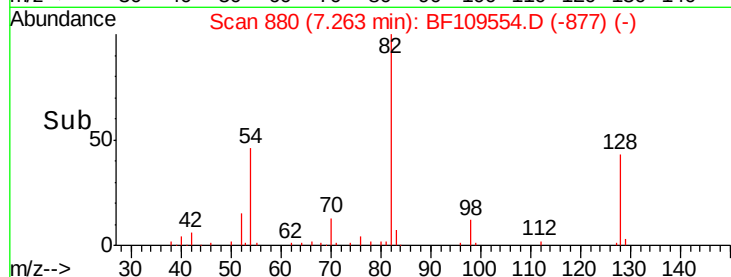
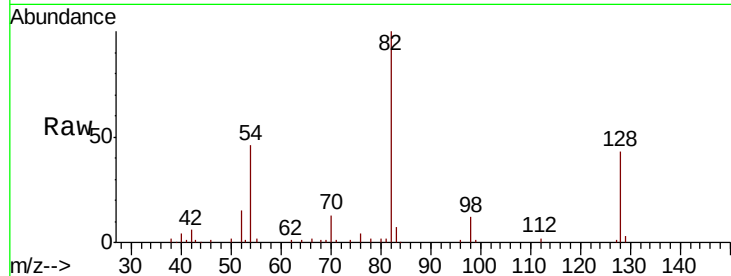




#25  
Isophorone  
Concen: 11.120 ng  
RT: 7.26 min Scan# 880  
Delta R.T. -0.28 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

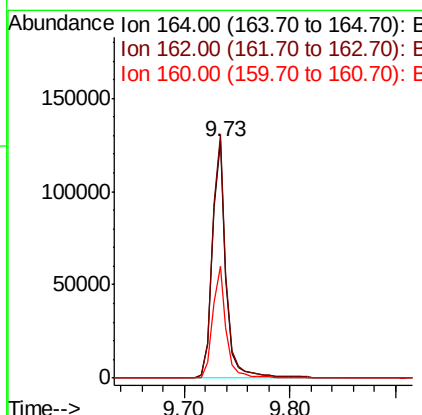
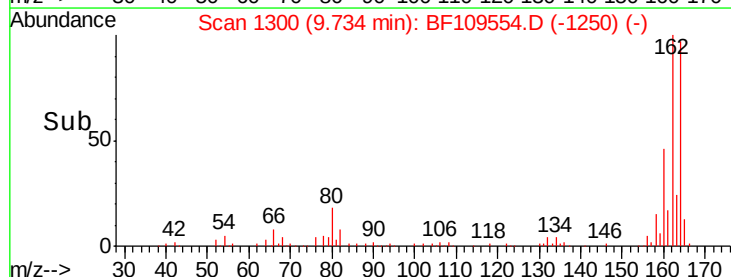
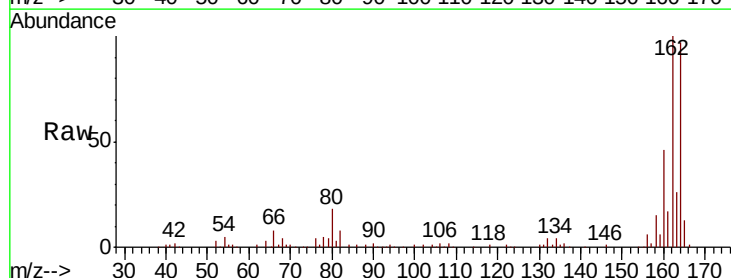
Instrument :  
BNA\_F  
ClientSampled :

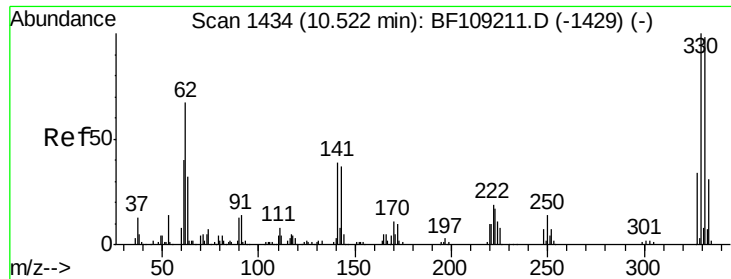
Tgt Ion: 82 Resp: 94950  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.73 min Scan# 1300  
Delta R.T. -0.01 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

Tgt Ion: 164 Resp: 116054  
Ion Ratio Lower Upper  
164 100  
162 102.8 86.1 129.1  
160 47.0 38.3 57.5

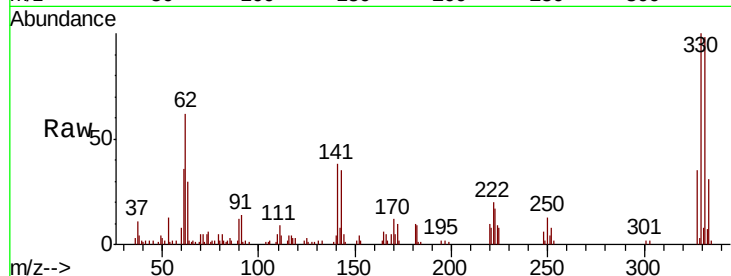




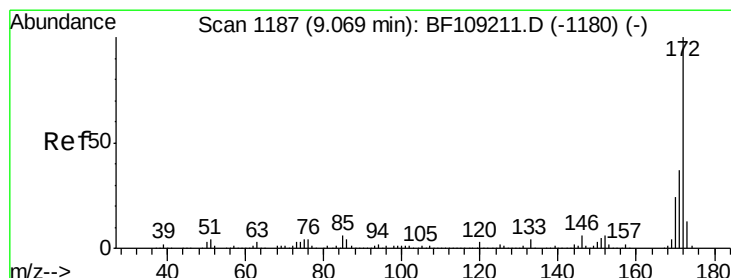
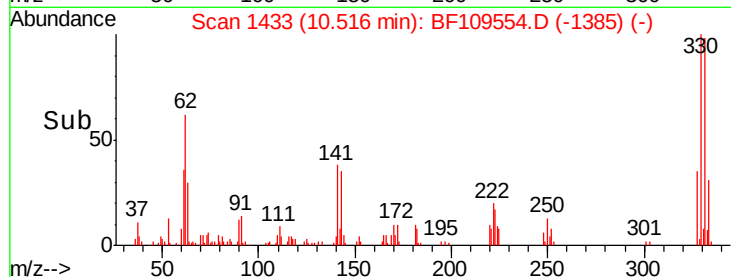
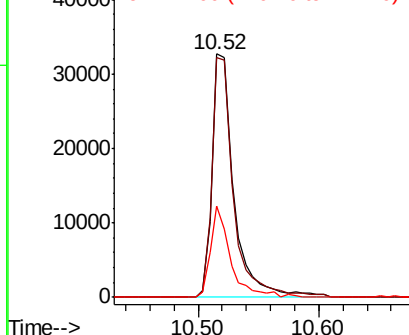
#41  
 2,4,6-Tribromophenol  
 Concen: 35.456 ng  
 RT: 10.52 min Scan# 1433  
 Delta R.T. -0.02 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Instrument :  
 BNA\_F  
 ClientSampleId :

Tgt Ion:330 Resp: 40563  
 Ion Ratio Lower Upper  
 330 100  
 332 97.4 77.0 115.6  
 141 34.5 29.9 44.9

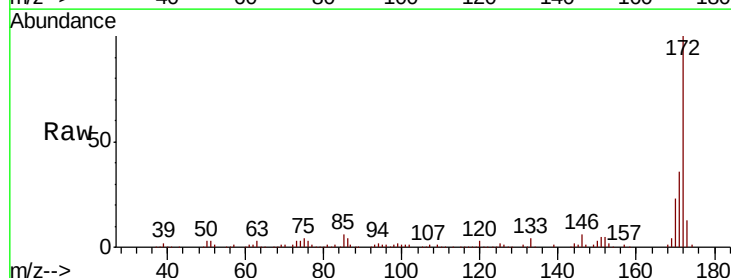


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

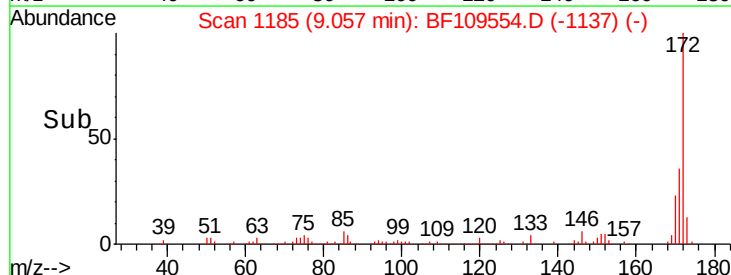
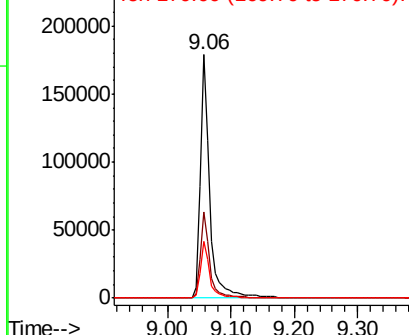


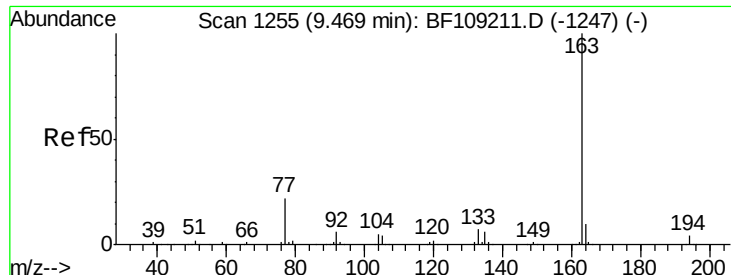
#44  
 2-Fluorobiphenyl  
 Concen: 23.401 ng  
 RT: 9.06 min Scan# 1185  
 Delta R.T. -0.02 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Tgt Ion:172 Resp: 180072  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 29.7 44.5  
 170 23.4 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

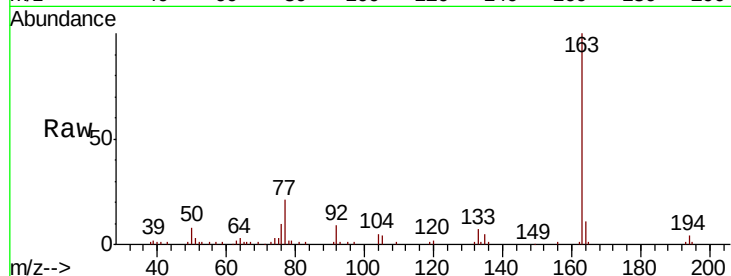




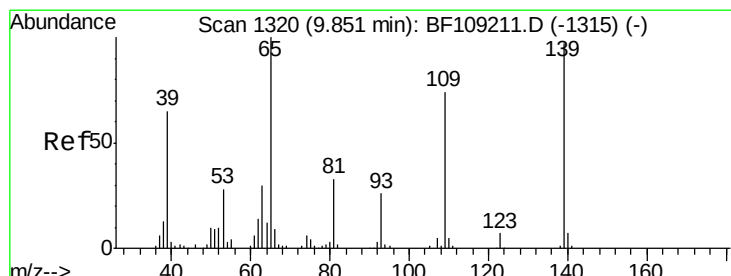
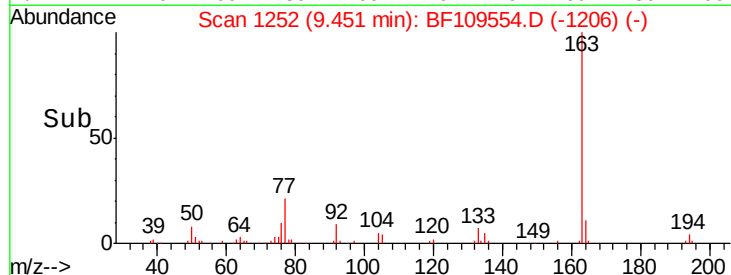
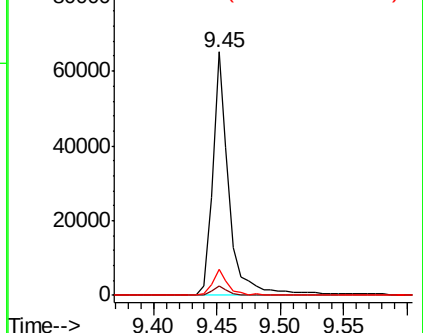
#49  
Dimethylphthalate  
Concen: 6.954 ng  
RT: 9.45 min Scan# 1252  
Delta R.T. -0.03 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion:163 Resp: 58699  
Ion Ratio Lower Upper  
163 100  
194 3.7 2.7 4.1  
164 10.6 8.2 12.2

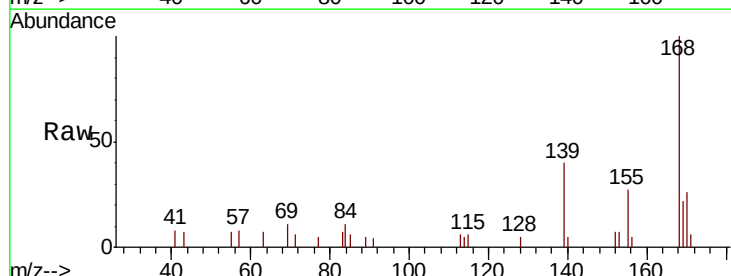


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

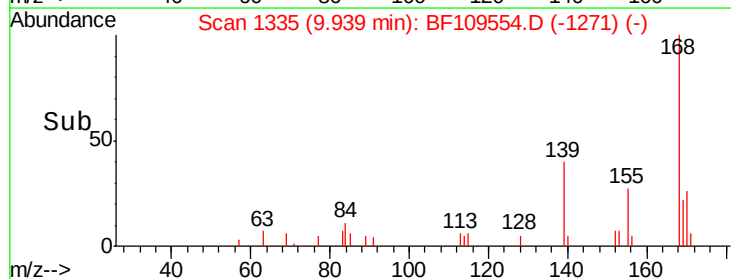
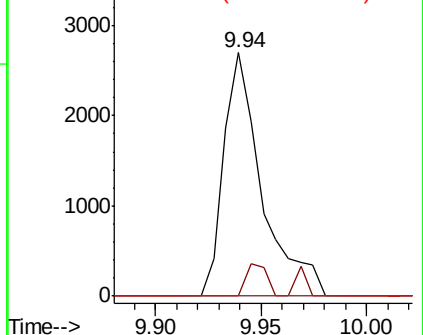


#55  
4-Nitrophenol  
Concen: 2.312 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. 0.08 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

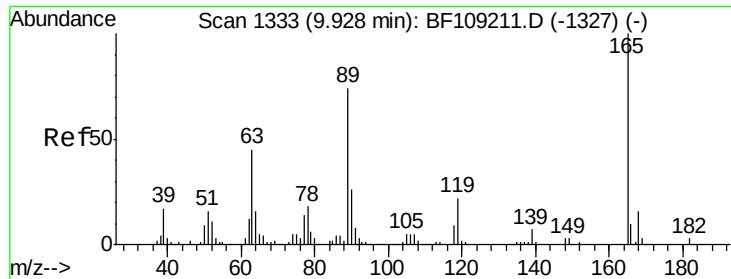
Tgt Ion:139 Resp: 3372  
Ion Ratio Lower Upper  
139 100  
109 0.0 48.4 88.4#  
65 0.0 72.6 112.6#



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): BF1



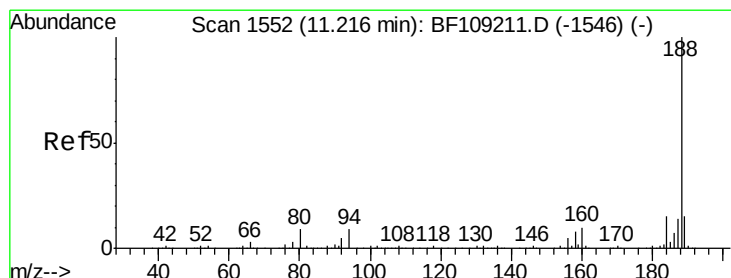
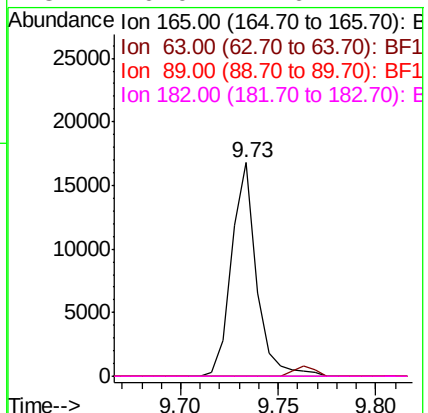
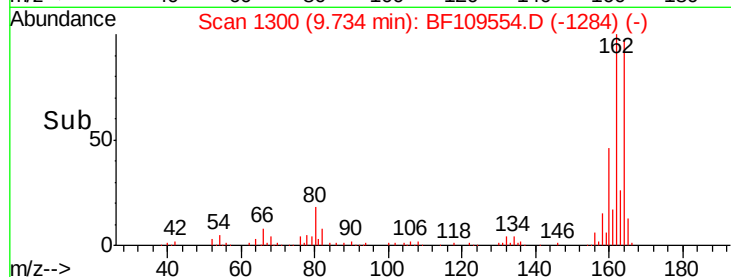
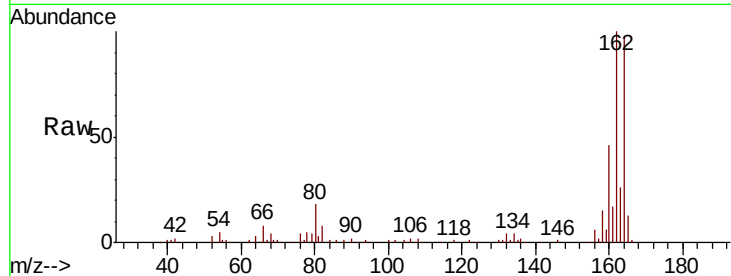




#56  
 2,4-Dinitrotoluene  
 Concen: 7.060 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.21 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

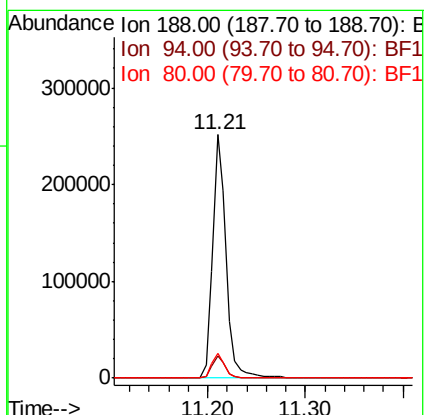
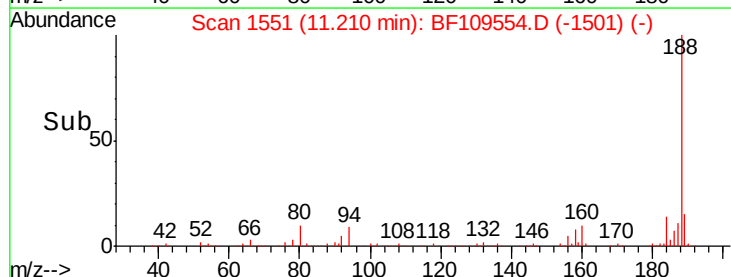
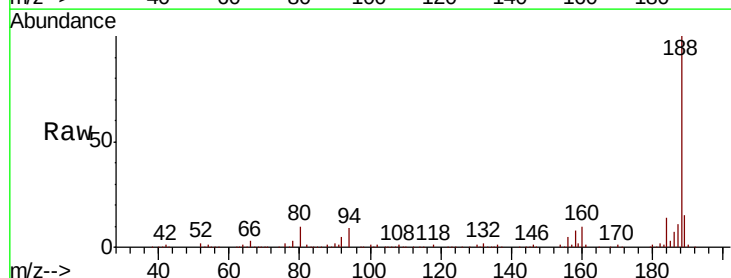
Instrument :  
 BNA\_F  
 ClientSampled :

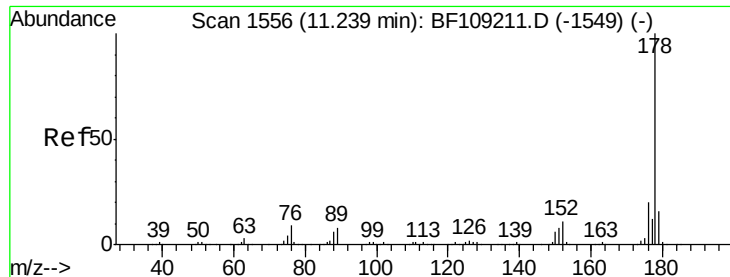
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 14934 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 36.4  | 54.6# |
| 89       | 0.0   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.21 min Scan# 1551  
 Delta R.T. -0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 240011 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.3   | 8.5   | 12.7   |
| 80       | 10.3  | 9.2   | 13.8   |

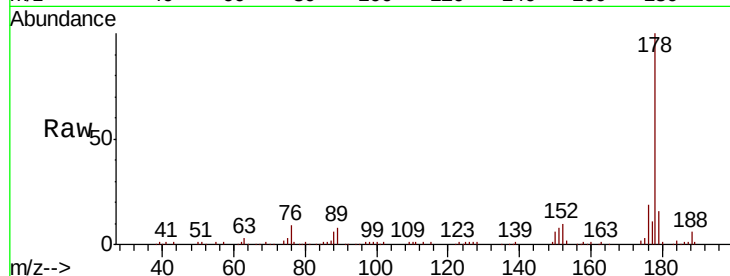




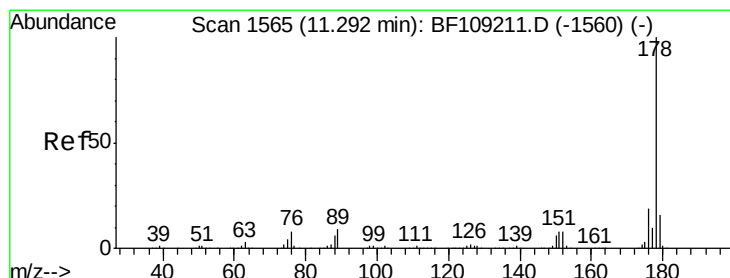
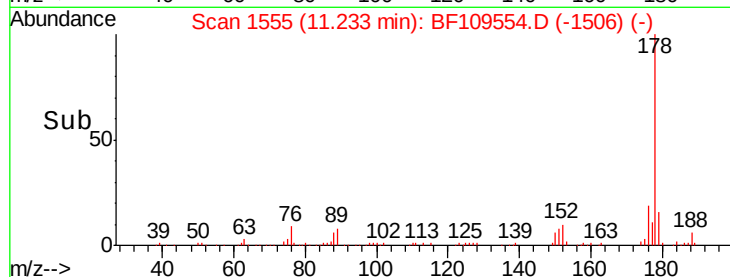
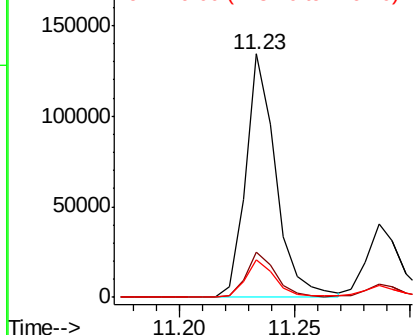
#70  
 Phenanthrene  
 Concen: 10.185 ng  
 RT: 11.23 min Scan# 1555  
 Delta R.T. -0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Instrument :  
 BNA\_F  
 ClientSampleId :

Tgt Ion:178 Resp: 122048  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.8 23.8  
 179 15.5 13.0 19.6

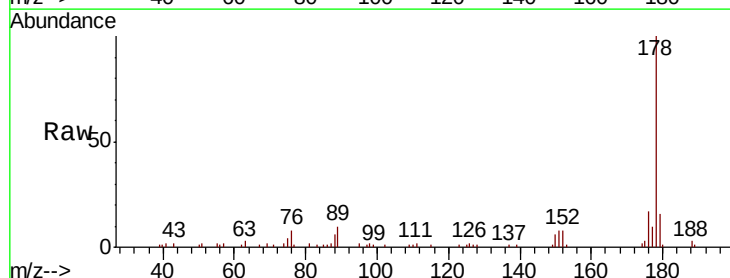


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

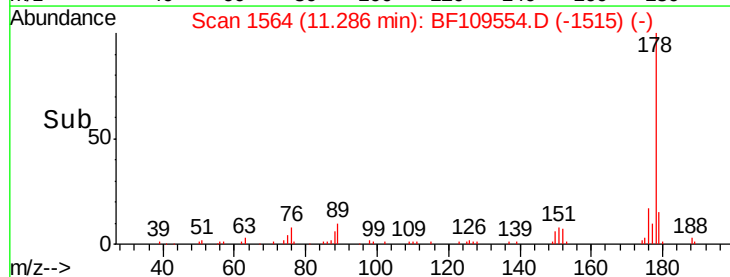
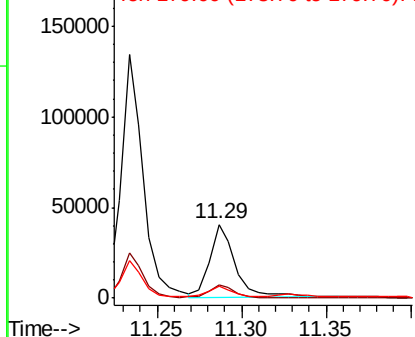


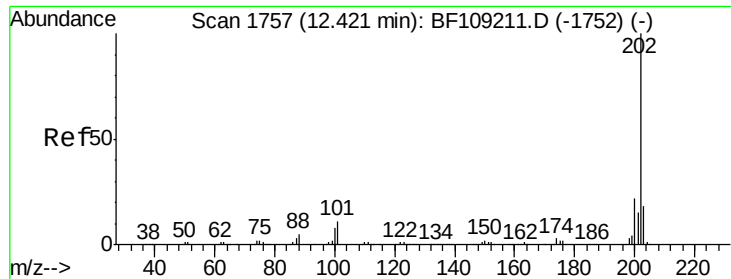
#71  
 Anthracene  
 Concen: 3.544 ng  
 RT: 11.29 min Scan# 1564  
 Delta R.T. -0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Tgt Ion:178 Resp: 43073  
 Ion Ratio Lower Upper  
 178 100  
 176 17.2 15.4 23.2  
 179 16.3 12.6 19.0



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

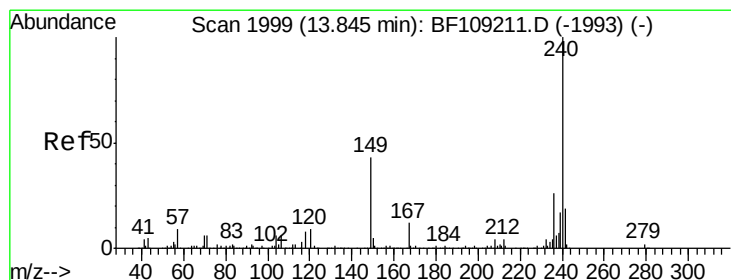
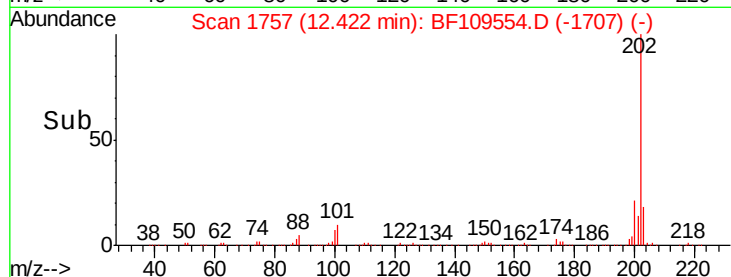
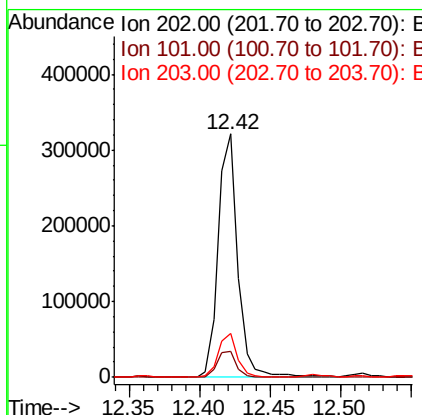
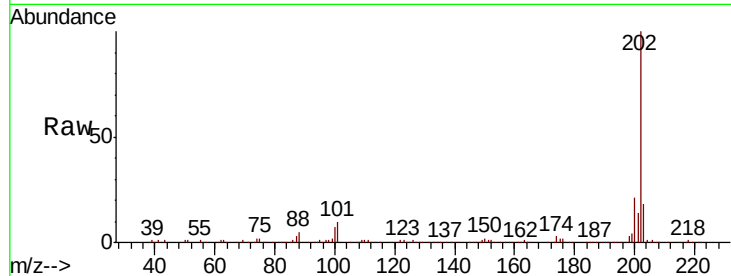




#74  
Fluoranthene  
Concen: 24.018 ng  
RT: 12.42 min Scan# 1757  
Delta R.T. -0.01 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

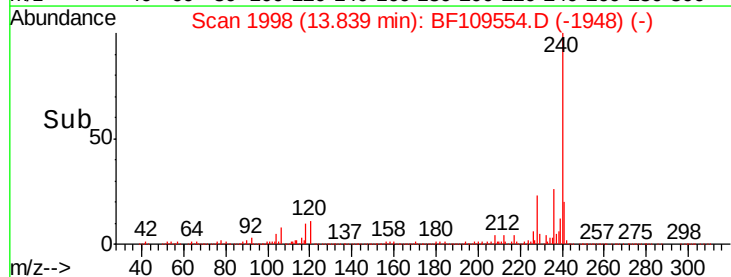
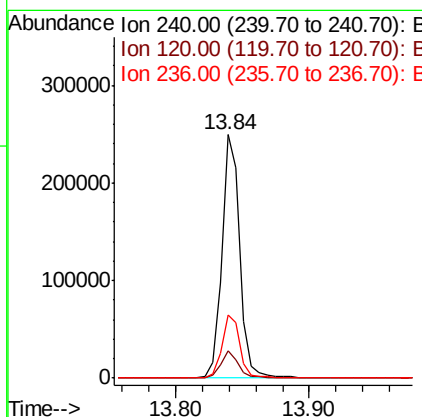
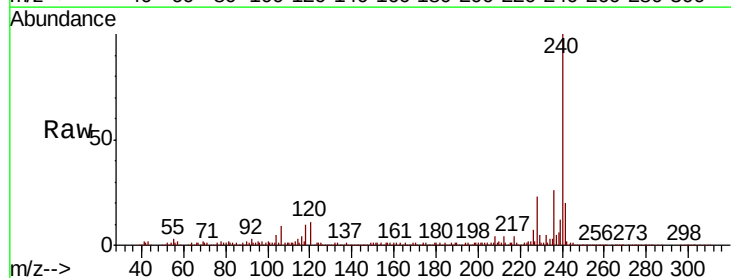
Instrument :  
BNA\_F  
ClientSampleId :

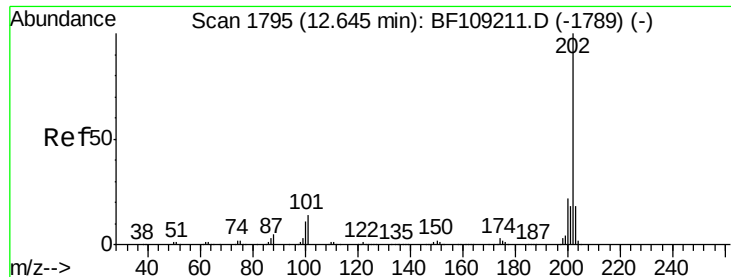
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 0.0   | 34.1  |
| 203     | 17.8  | 0.0   | 38.1  |



#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.84 min Scan# 1998  
Delta R.T. -0.01 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.2  | 9.5   | 14.3  |
| 236     | 25.8  | 20.7  | 31.1  |

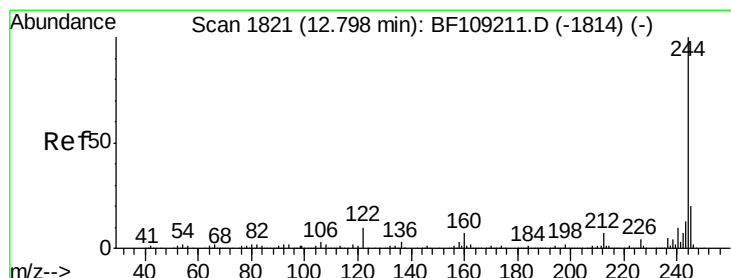
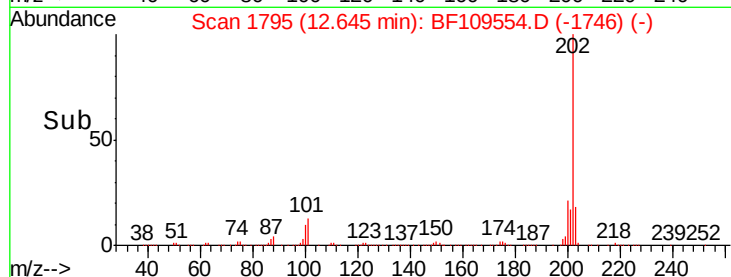
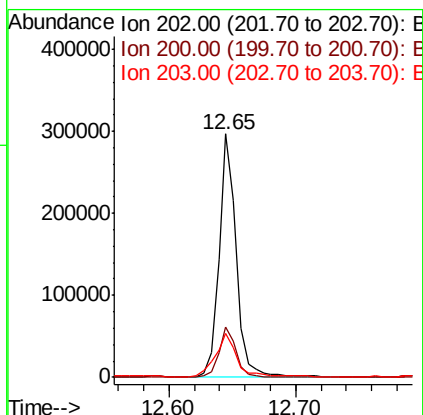
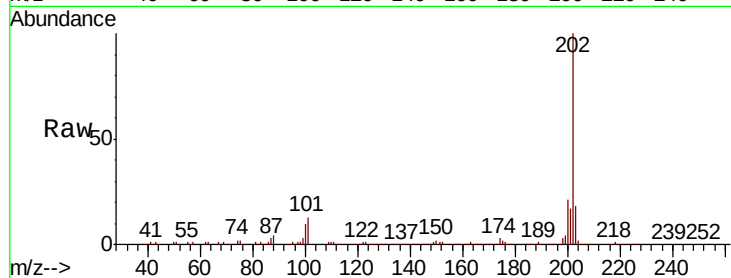




#77  
 Pyrene  
 Concen: 16.756 ng  
 RT: 12.65 min Scan# 1795  
 Delta R.T. -0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

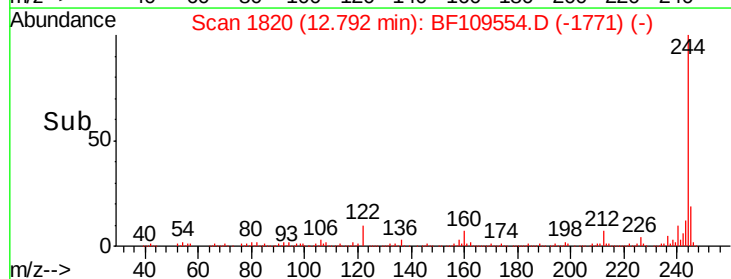
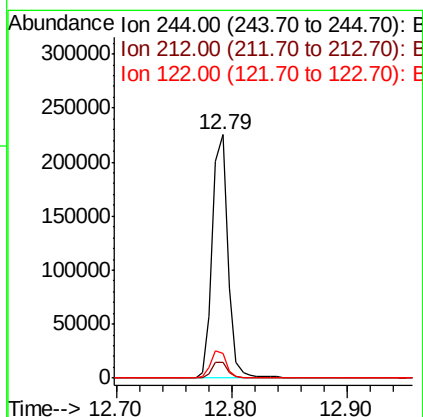
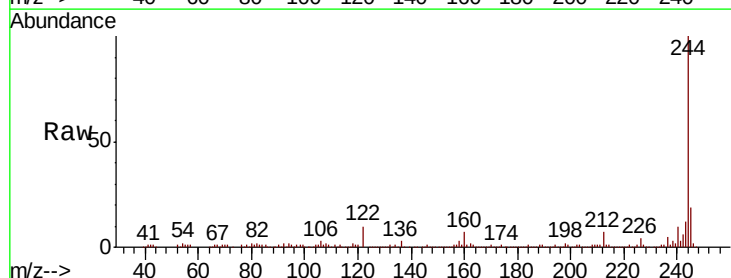
Instrument :  
 BNA\_F  
 ClientSampleId :

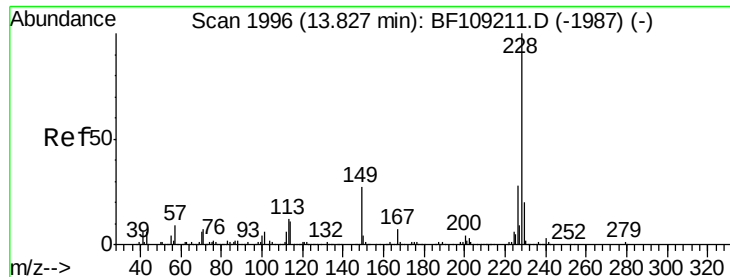
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.4  | 26.2  |
| 203     | 18.0  | 14.3  | 21.5  |



#78  
 Terphenyl-d14  
 Concen: 22.378 ng  
 RT: 12.79 min Scan# 1820  
 Delta R.T. -0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.5   | 5.4   | 8.0   |
| 122     | 9.9   | 11.0  | 16.4  |





#80

Benzo(a)anthracene

Concen: 9.191 ng

RT: 13.83 min Scan# 1997

Delta R.T. 0.00 min

Lab File: BF109554.D

Acq: 3 Oct 2018 18:44

Instrument :

BNA\_F

ClientSampleId :

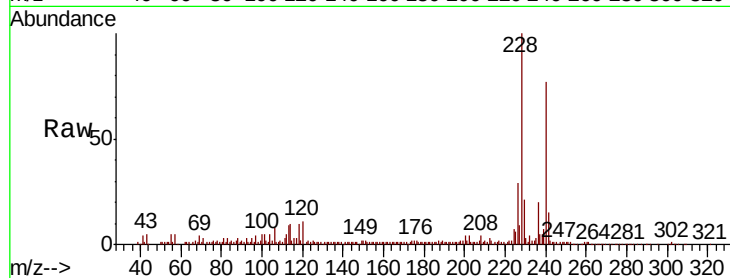
Tgt Ion:228 Resp: 129532

Ion Ratio Lower Upper

228 100

226 29.0 22.6 33.8

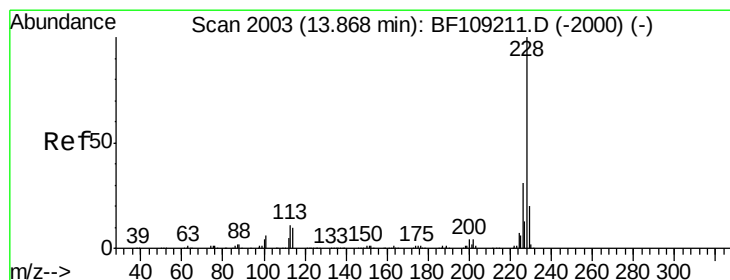
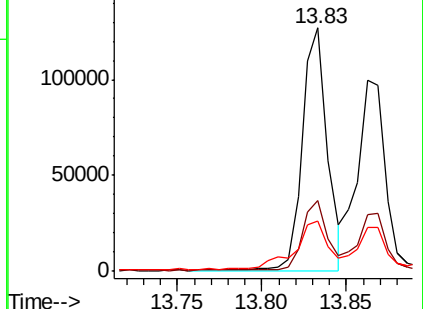
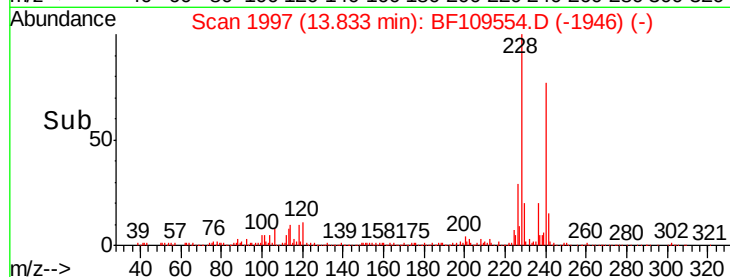
229 20.8 15.8 23.6



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



#82

Chrysene

Concen: 8.253 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF109554.D

Acq: 3 Oct 2018 18:44

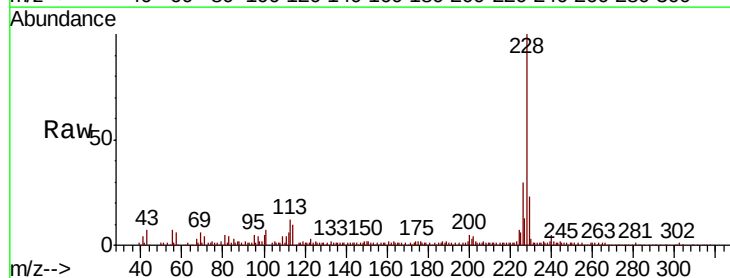
Tgt Ion:228 Resp: 115283

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

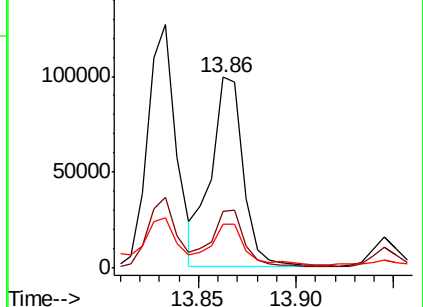
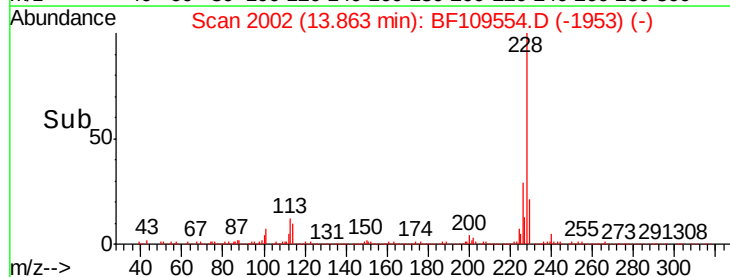
229 22.9 16.2 24.4

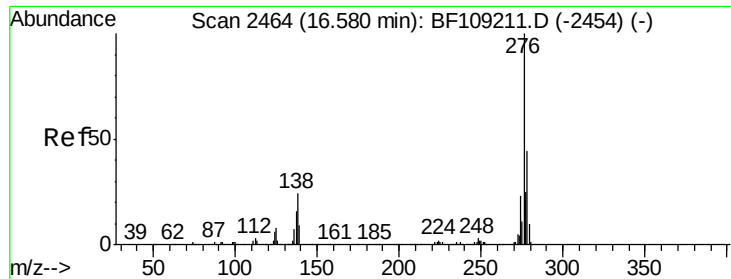


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

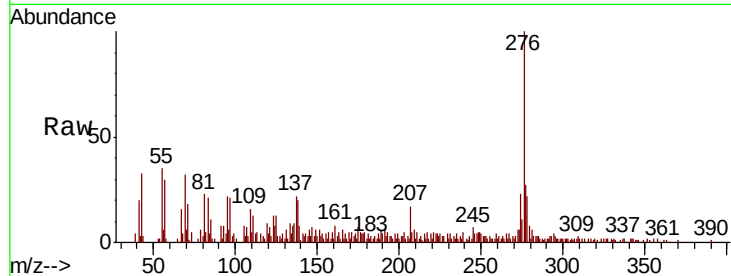




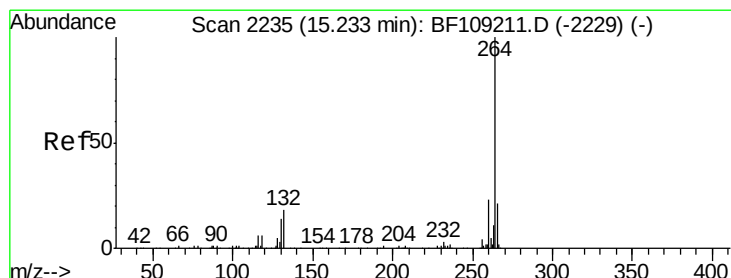
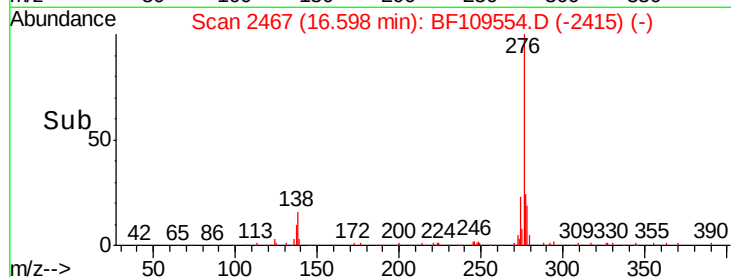
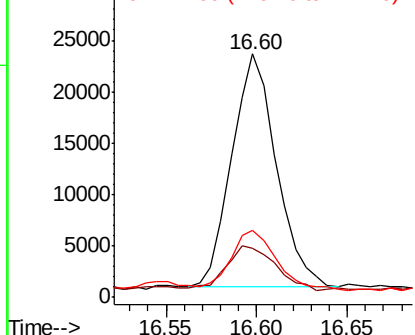
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.423 ng  
 RT: 16.60 min Scan# 2467  
 Delta R.T. 0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Instrument :  
 BNA\_F  
 ClientSampleId :

Tgt Ion: 276 Resp: 38756  
 Ion Ratio Lower Upper  
 276 100  
 138 22.0 25.0 37.6#  
 277 26.3 20.1 30.1

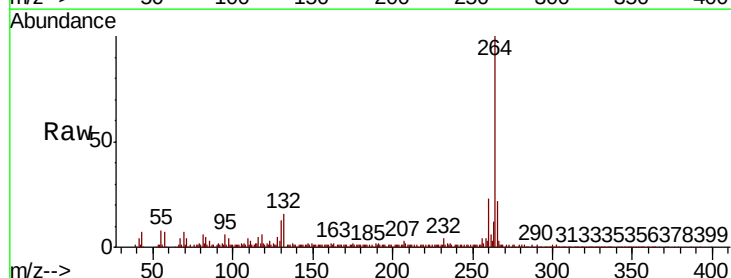


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

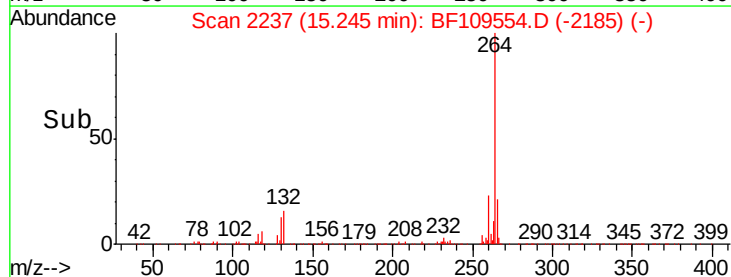
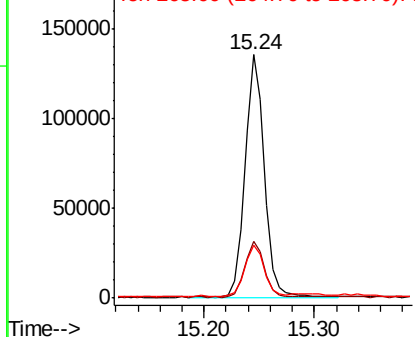


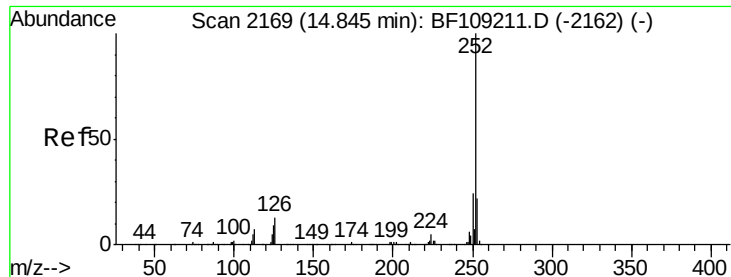
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.24 min Scan# 2237  
 Delta R.T. 0.01 min  
 Lab File: BF109554.D  
 Acq: 3 Oct 2018 18:44

Tgt Ion: 264 Resp: 166225  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 19.2 28.8  
 265 21.6 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

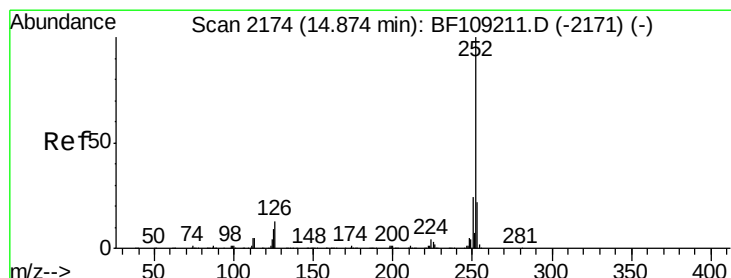
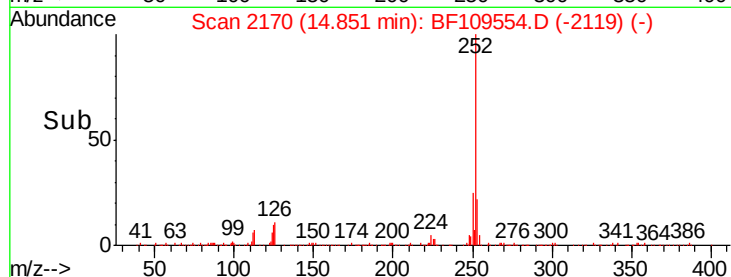
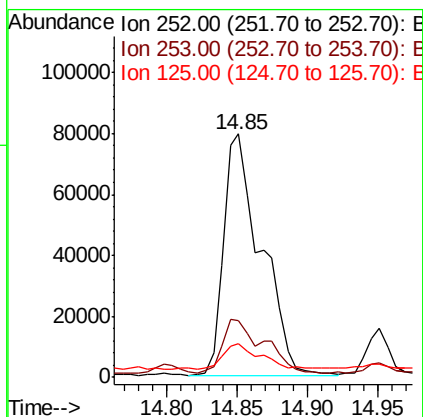
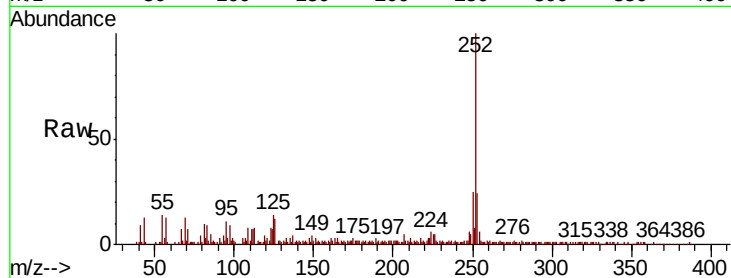




#87  
Benzo(b)fluoranthene  
Concen: 16.088 ng  
RT: 14.85 min Scan# 2170  
Delta R.T. 0.00 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

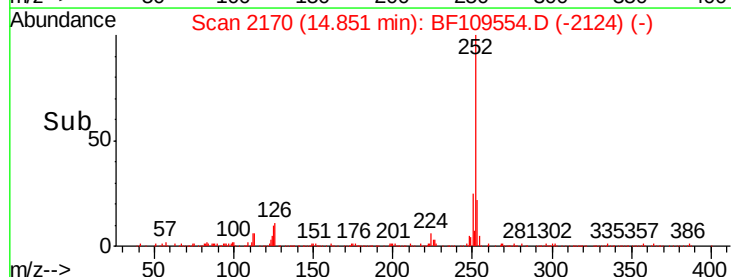
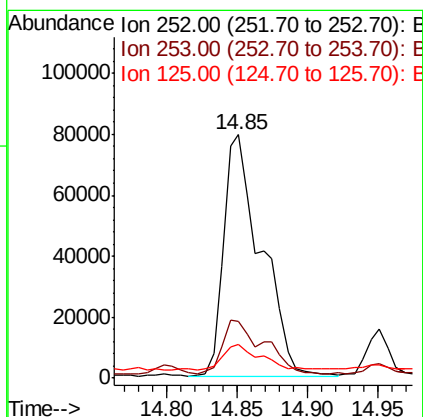
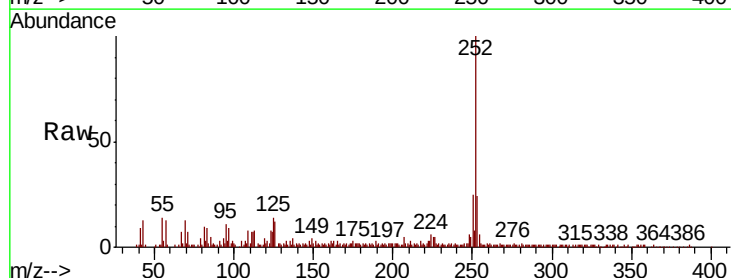
Instrument :  
BNA\_F  
ClientSampleId :

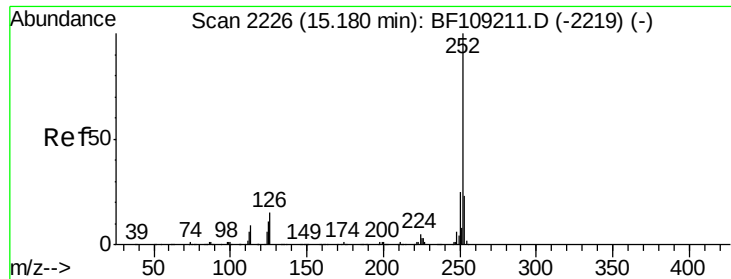
Tgt Ion:252 Resp: 146951  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.0 25.6  
125 13.6 9.0 13.6#



#88  
Benzo(k)fluoranthene  
Concen: 16.954 ng  
RT: 14.85 min Scan# 2170  
Delta R.T. -0.03 min  
Lab File: BF109554.D  
Acq: 3 Oct 2018 18:44

Tgt Ion:252 Resp: 146951  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.9 26.9  
125 13.6 10.2 15.2





#89

Benzo(a)pyrene

Concen: 8.720 ng

RT: 15.19 min Scan# 2227

Delta R.T. 0.00 min

Lab File: BF109554.D

Acq: 3 Oct 2018 18:44

Instrument :

BNA\_F

ClientSampleId :

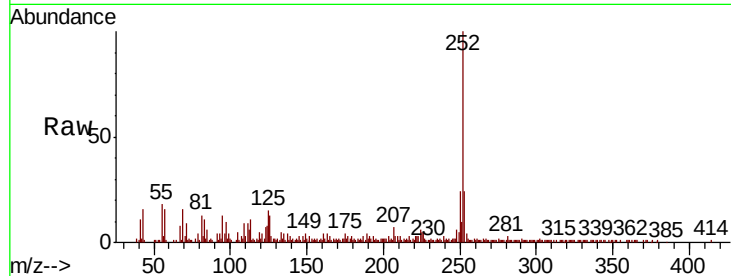
Tgt Ion:252 Resp: 71766

Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

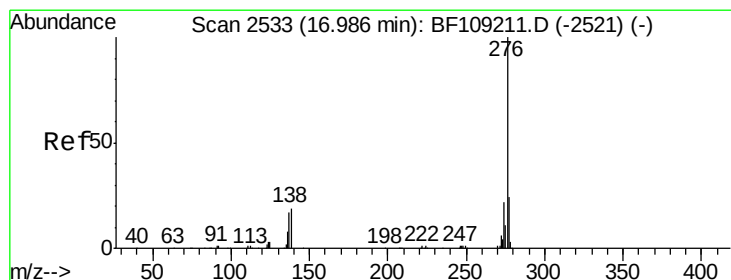
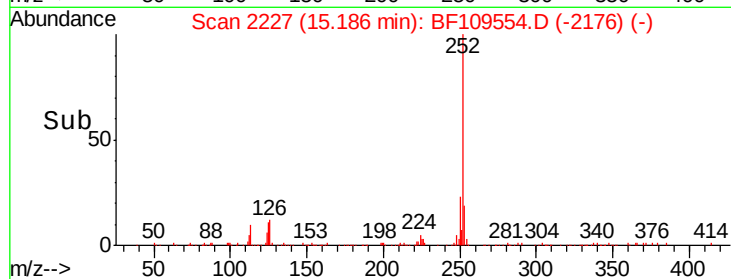
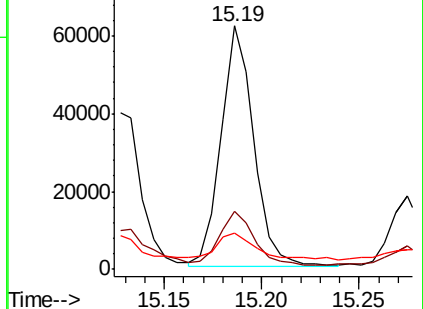
125 14.9 9.8 14.6#



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



#91

Benzo(g,h,i)perylene

Concen: 5.831 ng

RT: 17.00 min Scan# 2536

Delta R.T. 0.01 min

Lab File: BF109554.D

Acq: 3 Oct 2018 18:44

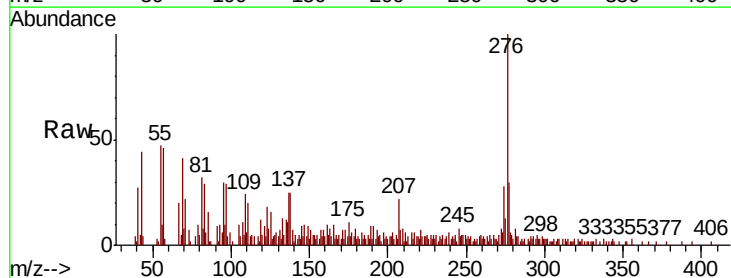
Tgt Ion:276 Resp: 38692

Ion Ratio Lower Upper

276 100

277 30.2 17.9 26.9#

138 25.0 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

