

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031120\  
 Data File : BF119356.D  
 Acq On : 11 Mar 2020 20:09  
 Operator : CG/JU  
 Sample : L1871-02  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 12 05:10:21 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 06 23:38:46 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 102696   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 392370   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.75  | 164  | 221179   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.24 | 188  | 410024   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.88 | 240  | 281031   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.31 | 264  | 288571   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 586953   | 95.52 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 731539   | 97.88 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 484254   | 65.16 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 258476   | 89.33 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.07  | 172  | 873629   | 58.19 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 1047187  | 64.15 | ng    | 0.00     |

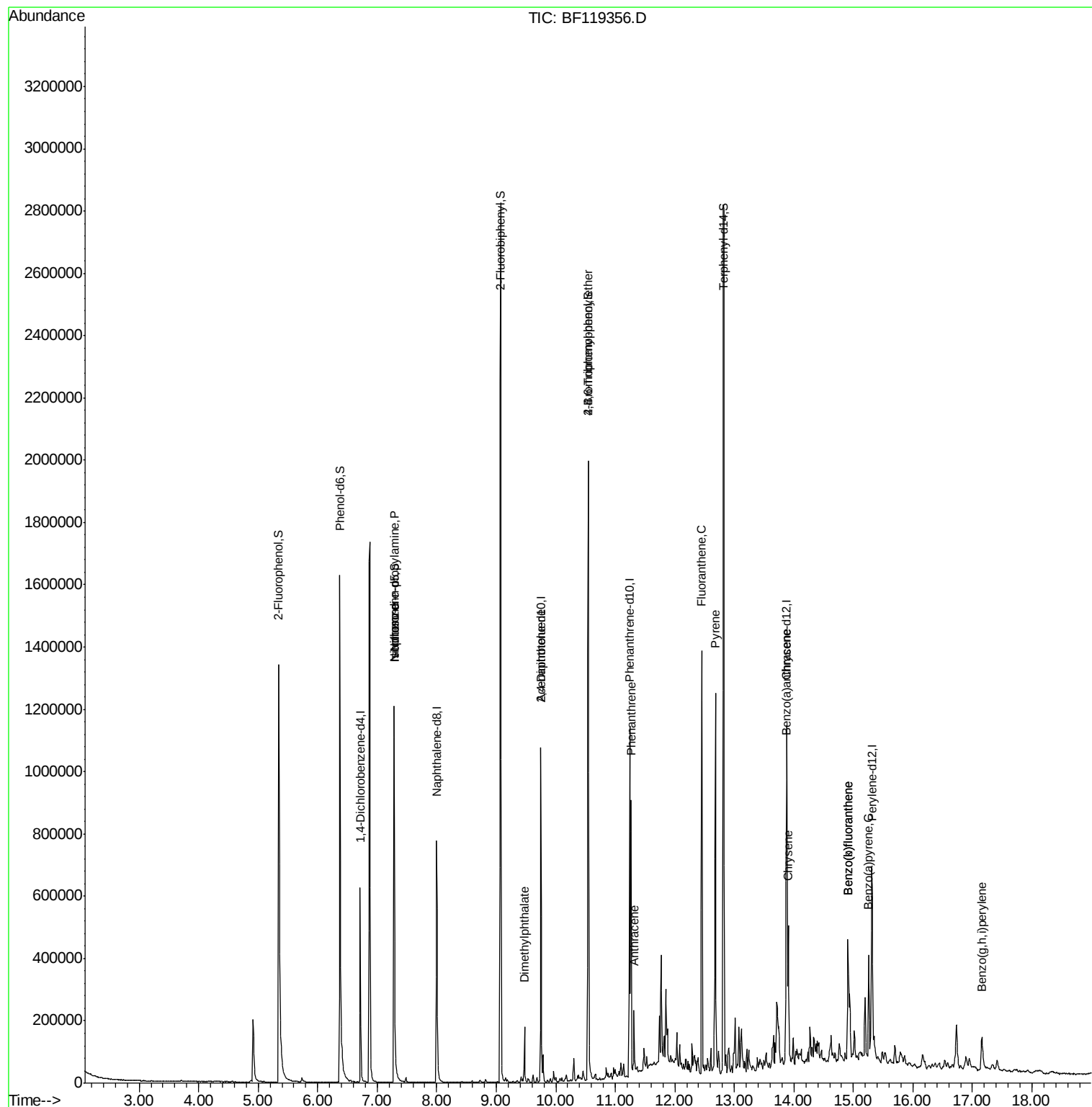
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 65484    | 15.037 | ng    | # 74   |
| 25) Isophorone                 | 7.29  | 82   | 484254   | 37.522 | ng    | # 63   |
| 50) Dimethylphthalate          | 9.47  | 163  | 83711    | 4.949  | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 9.75  | 165  | 28360    | 5.823  | ng    | # 21   |
| 67) 4-Bromophenyl-phenylether  | 10.55 | 248  | 17275    | 3.223  | ng    | # 1    |
| 71) Phenanthrene               | 11.26 | 178  | 350156   | 15.659 | ng    | 96     |
| 72) Anthracene                 | 11.32 | 178  | 79664    | 3.566  | ng    | 97     |
| 75) Fluoranthene               | 12.45 | 202  | 551689   | 23.243 | ng    | 98     |
| 78) Pyrene                     | 12.68 | 202  | 474737   | 21.037 | ng    | 98     |
| 81) Benzo(a)anthracene         | 13.87 | 228  | 215430   | 11.250 | ng    | 98     |
| 83) Chrysene                   | 13.91 | 228  | 184366   | 9.663  | ng    | 97     |
| 88) Benzo(b)fluoranthene       | 14.91 | 252  | 278715   | 14.653 | ng    | 98     |
| 89) Benzo(k)fluoranthene       | 14.91 | 252  | 278433   | 15.796 | ng    | 98     |
| 90) Benzo(a)pyrene             | 15.26 | 252  | 163030   | 9.497  | ng    | 99     |
| 92) Benzo(a,h,i)perylene       | 17.16 | 276  | 91822    | 6.152  | ng    | 96     |

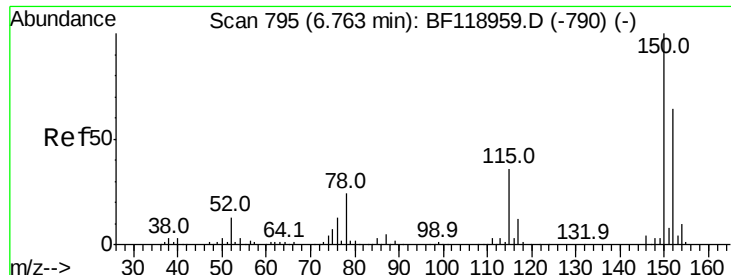
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031120\  
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ALS Vial : 10 Sample Multiplier: 1

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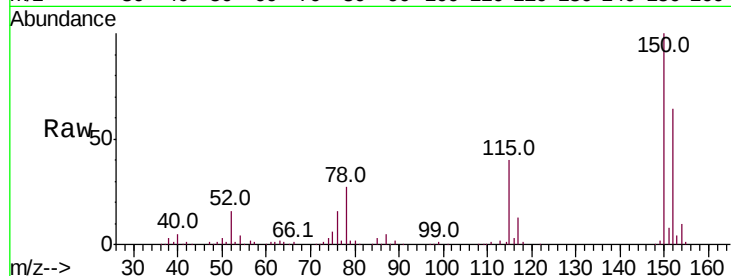




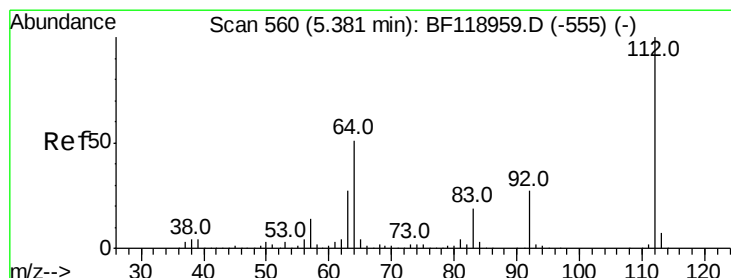
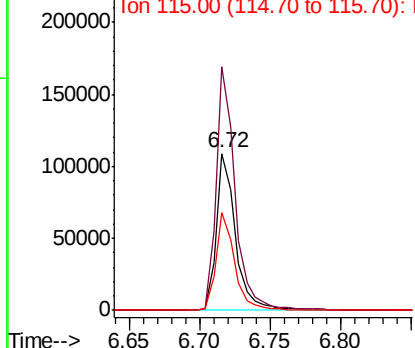
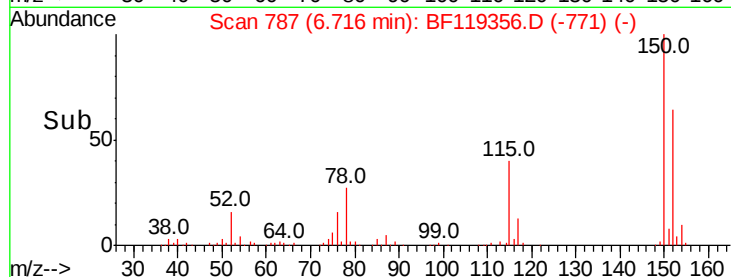
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 787  
 Delta R.T. -0.01 min  
 Lab File: BF119356.D  
 Acq: 11 Mar 2020 20:09

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 102696  
 Ion Ratio Lower Upper  
 152 100  
 150 155.5 123.0 184.6  
 115 62.7 49.5 74.3

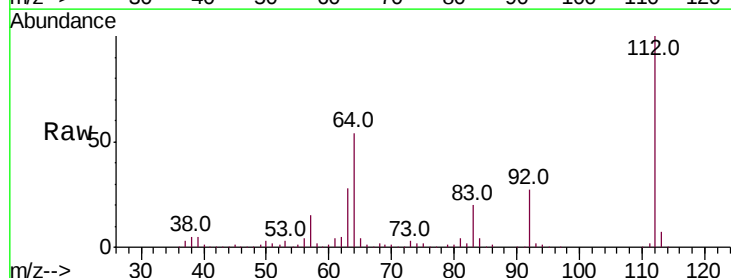


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

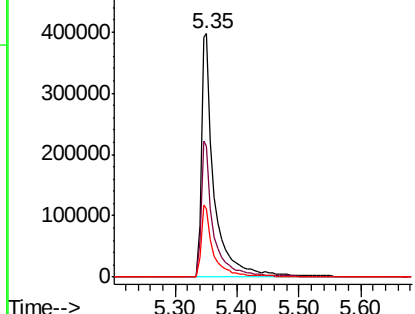
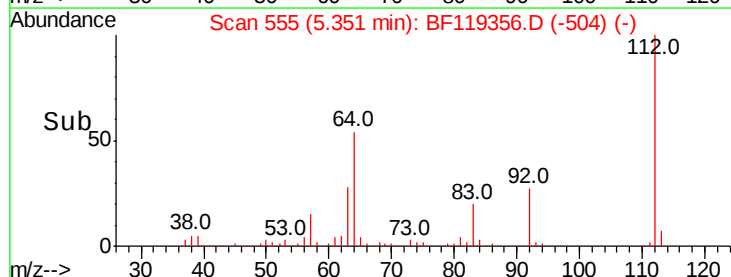


#5  
 2-Fluorophenol  
 Concen: 95.515 ng  
 RT: 5.35 min Scan# 555  
 Delta R.T. 0.00 min  
 Lab File: BF119356.D  
 Acq: 11 Mar 2020 20:09

Tgt Ion:112 Resp: 586953  
 Ion Ratio Lower Upper  
 112 100  
 64 53.6 45.0 67.4  
 63 28.2 24.2 36.4



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: 97.883 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

Instrument :

BNA\_F

ClientSampleId :

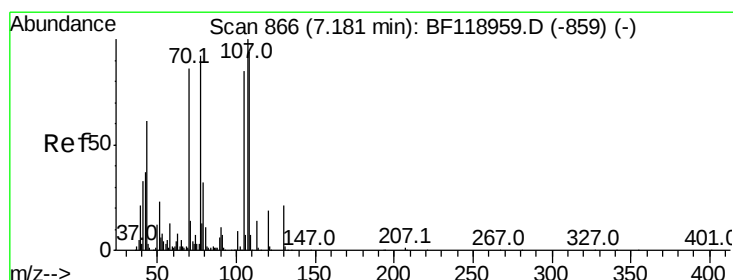
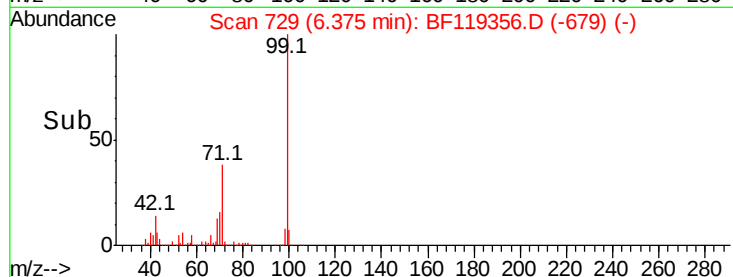
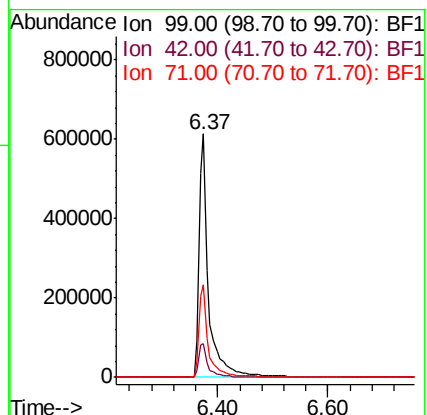
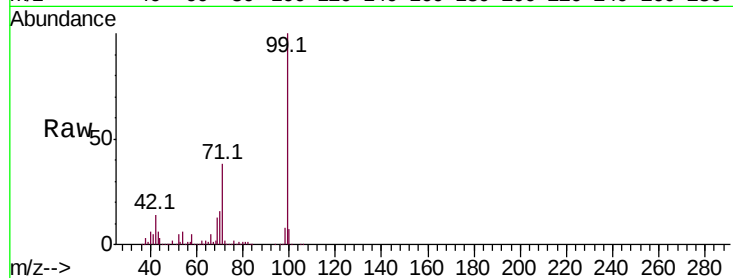
Tot Ion: 99 Resp: 731539

Ion Ratio Lower Upper

99 100

42 13.9 12.6 18.8

71 38.2 31.0 46.4



#19

n-Nitroso-di-n-propylamine

Concen: 15.037 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.14 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

Tgt Ion: 70 Resp: 65484

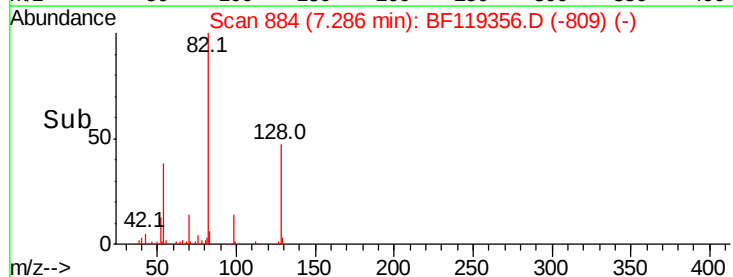
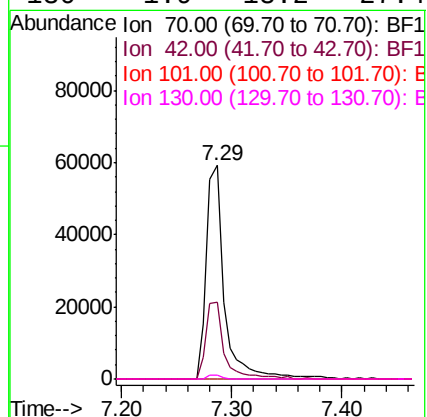
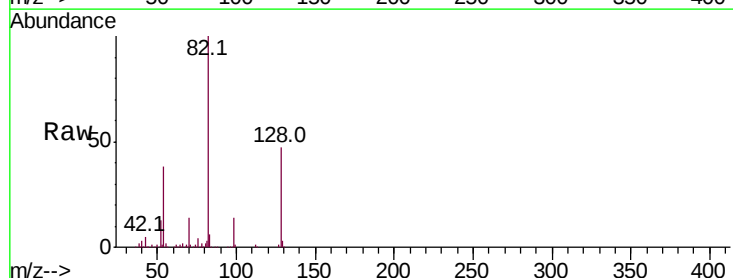
Ion Ratio Lower Upper

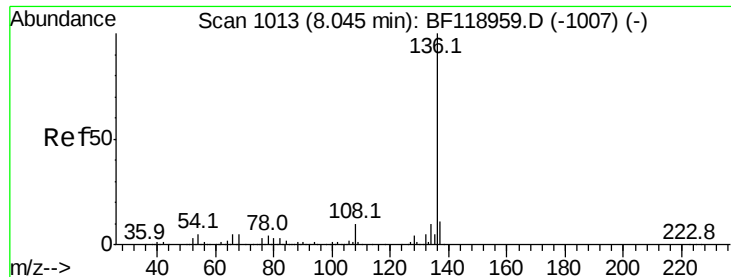
70 100

42 35.9 38.0 57.0#

101 0.0 8.2 12.4#

130 1.9 18.2 27.4#

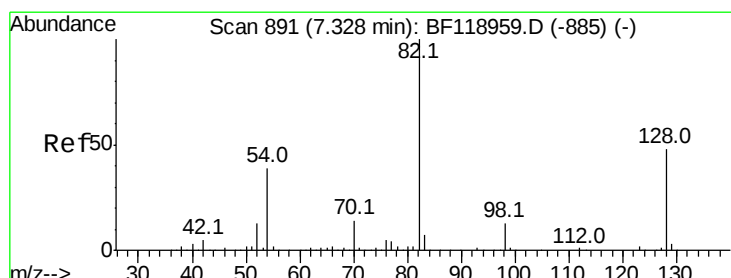
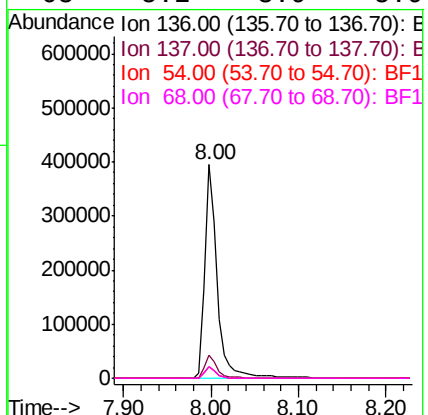
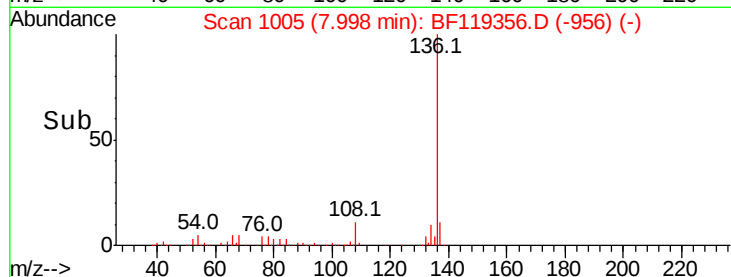
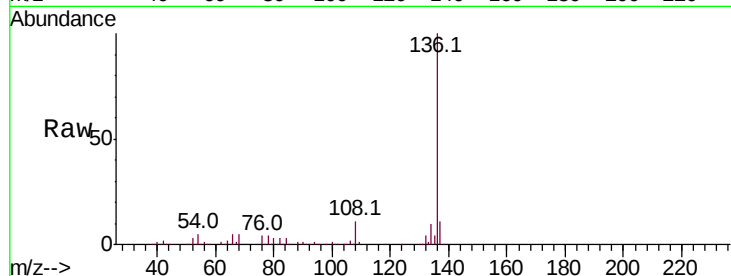




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

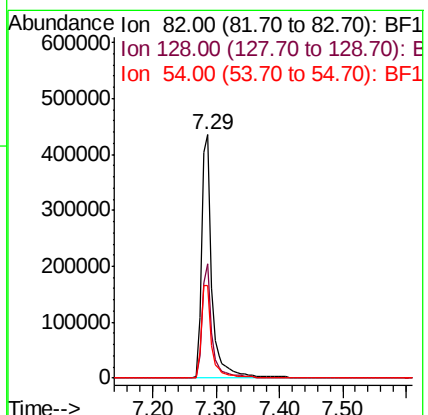
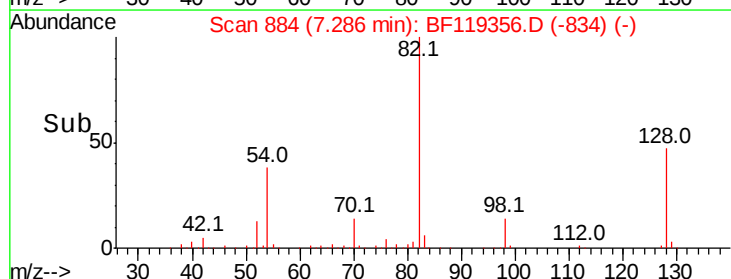
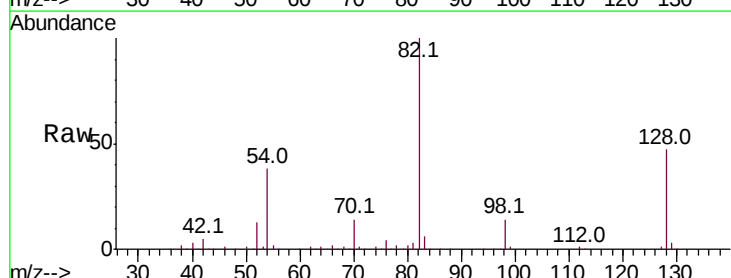
Instrument :  
BNA\_F  
ClientSampleId :

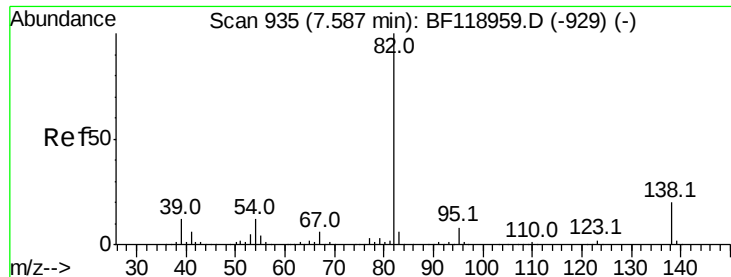
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 392370      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.8  | 8.8 13.2    |
| 54          | 5.3   | 3.8 5.6     |
| 68          | 5.2   | 3.9 5.9     |



#23  
Nitrobenzene-d5  
Concen: 65.165 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 484254      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 47.1  | 37.9 56.9   |
| 54          | 38.0  | 33.4 50.2   |





#25

Isophorone

Concen: 37.522 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

Instrument :

BNA\_F

ClientSampled :

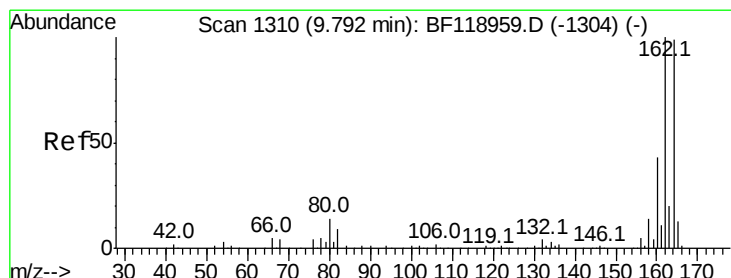
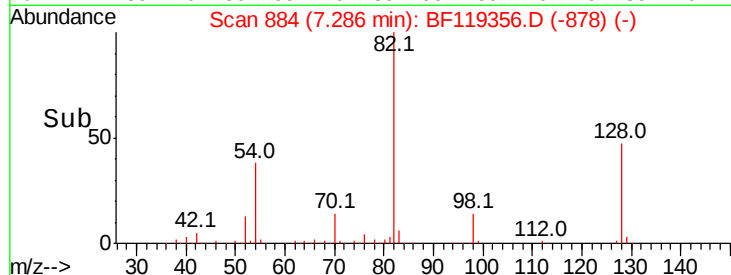
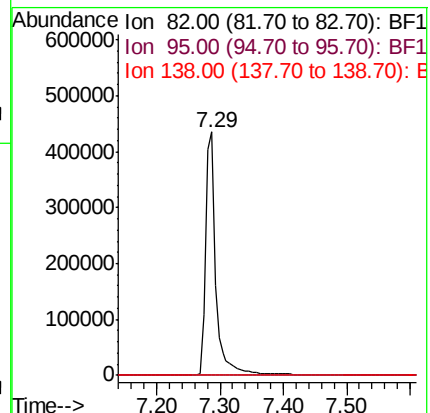
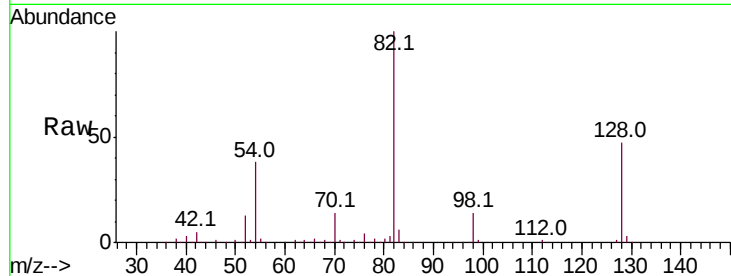
Tot Ion: 82 Resp: 484254

Ion Ratio Lower Upper

82 100

95 0.0 6.4 9.6#

138 0.0 15.7 23.5#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

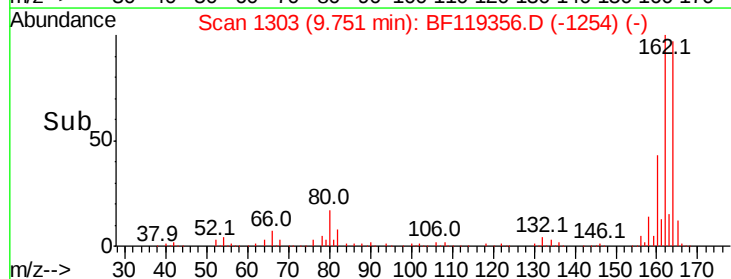
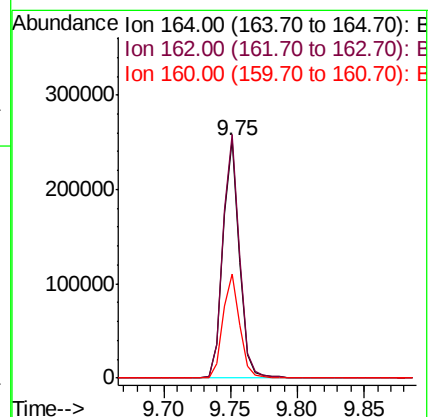
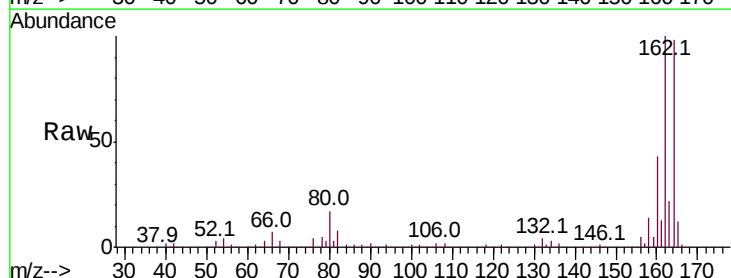
Tgt Ion: 164 Resp: 221179

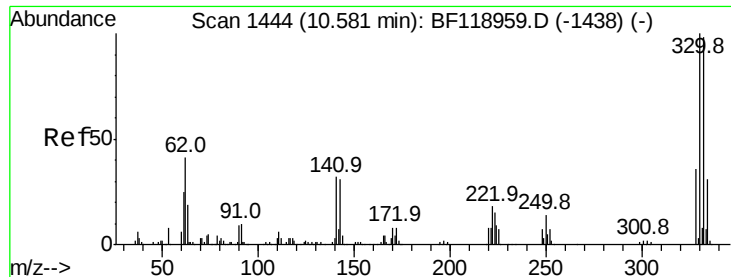
Ion Ratio Lower Upper

164 100

162 102.1 81.8 122.8

160 43.7 36.0 54.0

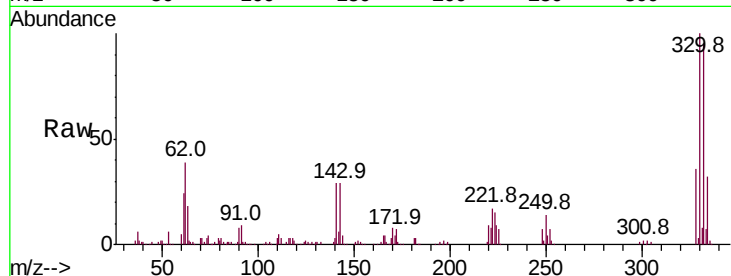




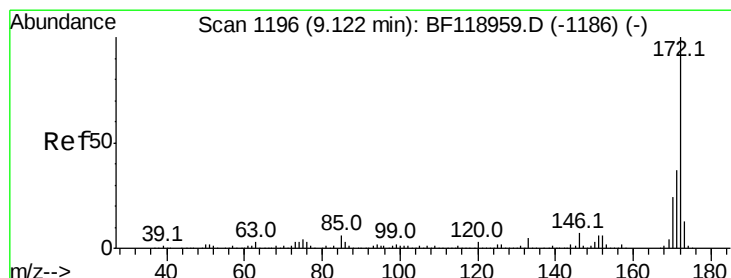
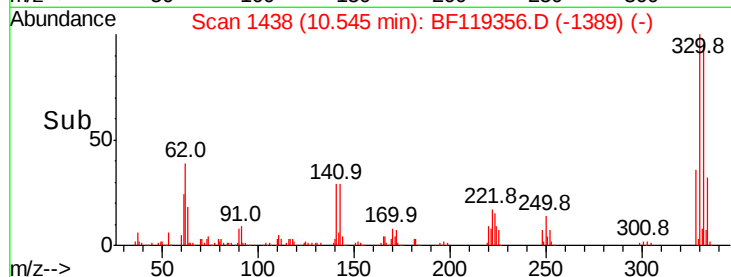
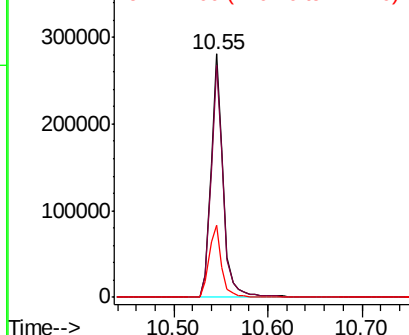
#42  
 2,4,6-Tribromophenol  
 Concen: 89.333 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF119356.D  
 Acq: 11 Mar 2020 20:09

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 76.0  | 114.0 |
| 141     | 30.9  | 22.9  | 34.3  |

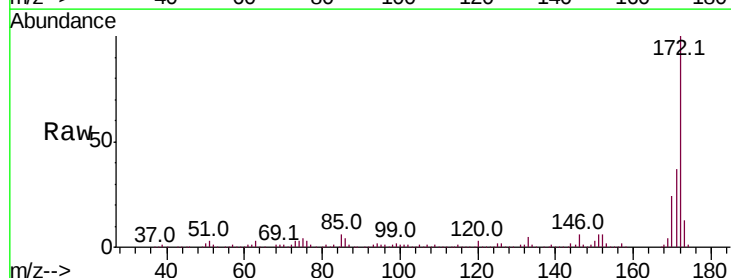


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

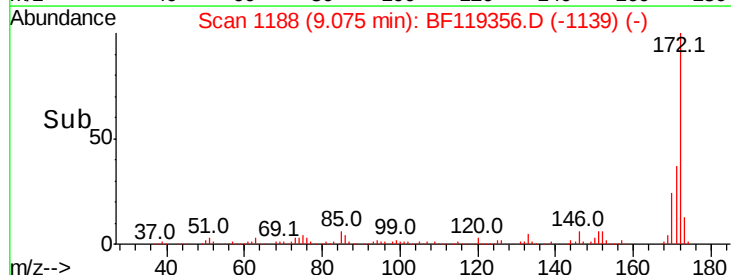
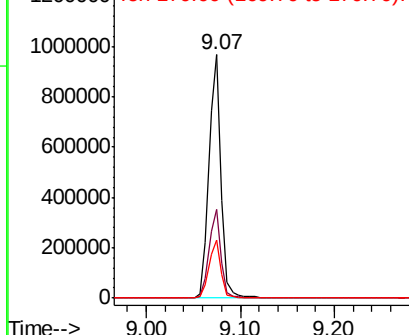


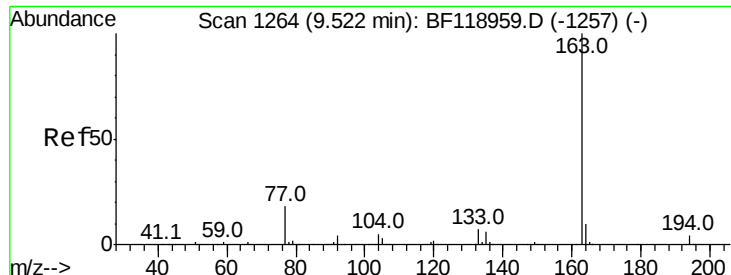
#45  
 2-Fluorobiphenyl  
 Concen: 58.188 ng  
 RT: 9.07 min Scan# 1188  
 Delta R.T. -0.01 min  
 Lab File: BF119356.D  
 Acq: 11 Mar 2020 20:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 30.6  | 45.8  |
| 170     | 24.0  | 20.2  | 30.2  |



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

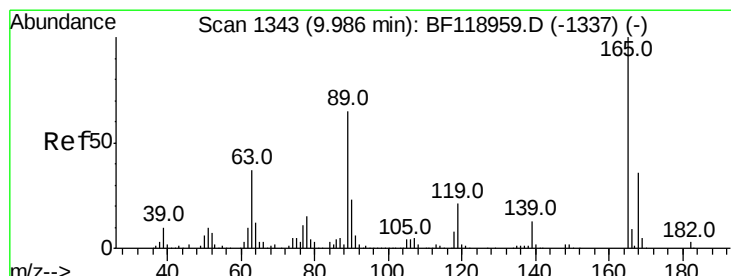
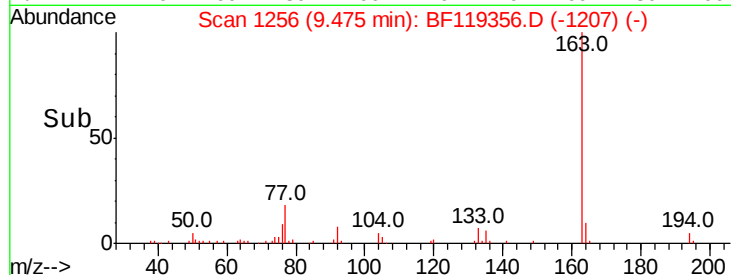
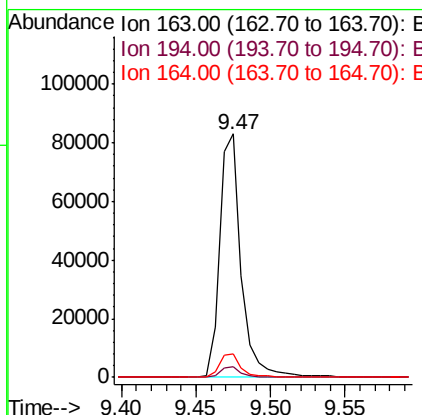
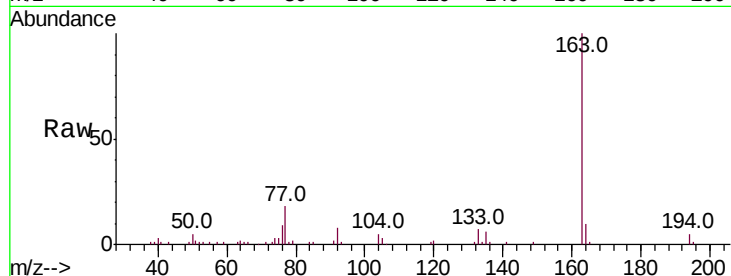




#50  
Dimethylphthalate  
Concen: 4.949 ng  
RT: 9.47 min Scan# 1256  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

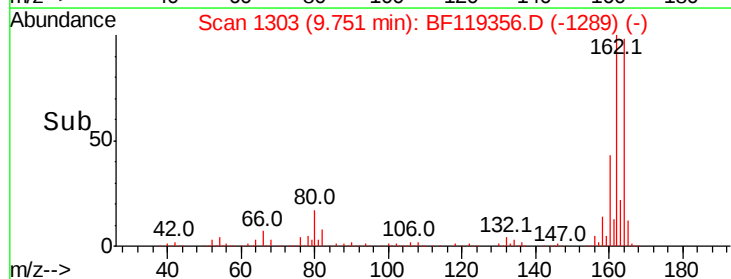
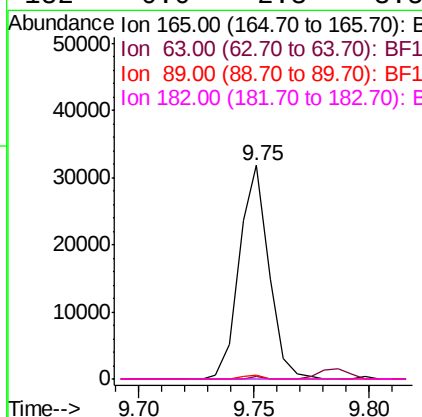
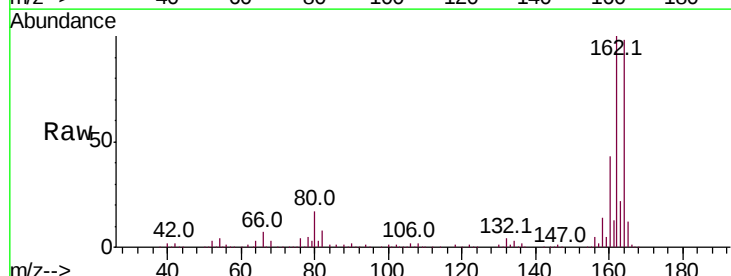
Instrument :  
BNA\_F  
ClientSampleId :

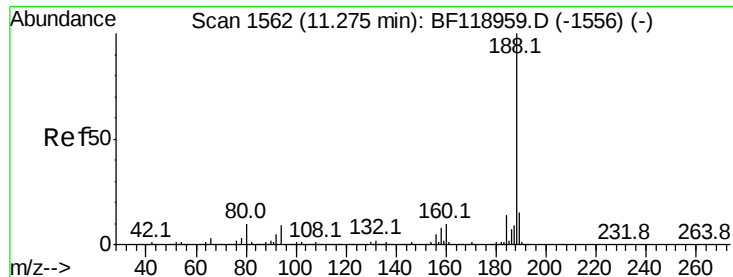
Tot Ion:163 Resp: 83711  
Ion Ratio Lower Upper  
163 100  
194 4.5 3.5 5.3  
164 9.9 8.4 12.6



#57  
2,4-Dinitrotoluene  
Concen: 5.823 ng  
RT: 9.75 min Scan# 1303  
Delta R.T. -0.22 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

Tgt Ion:165 Resp: 28360  
Ion Ratio Lower Upper  
165 100  
63 1.1 42.3 63.5#  
89 1.7 60.2 90.4#  
182 0.0 2.3 3.5#

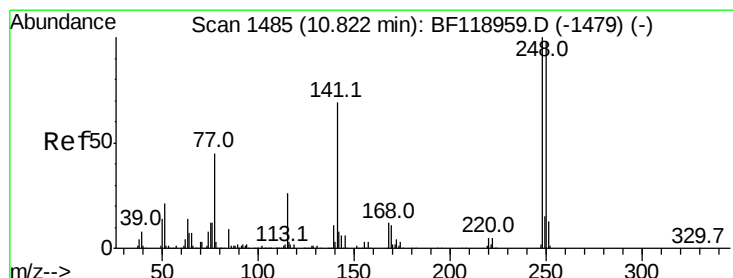
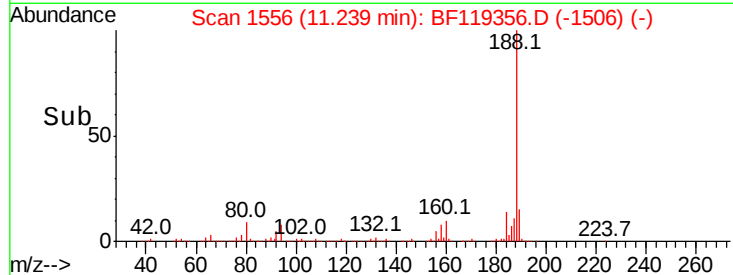
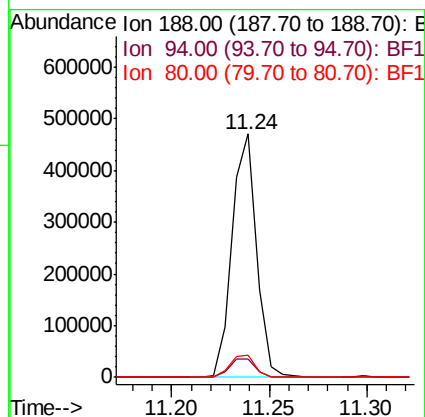
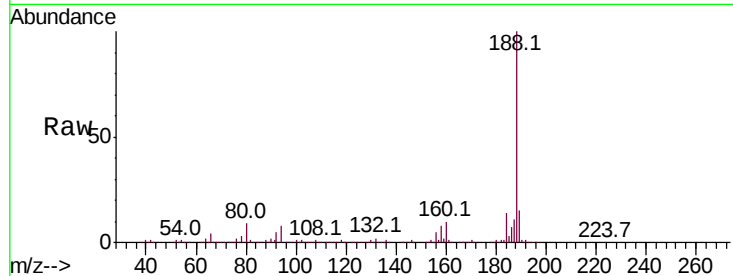




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

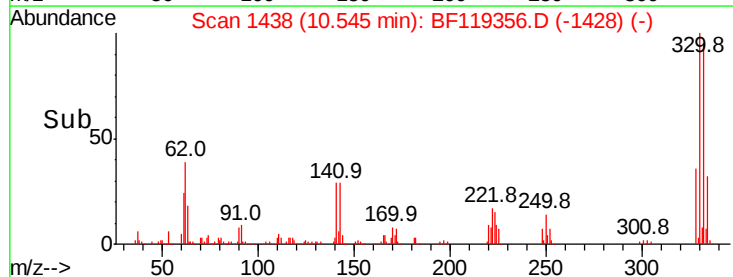
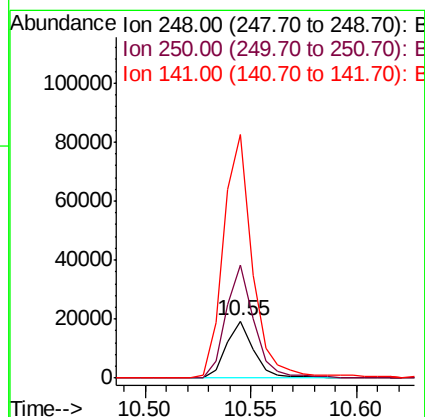
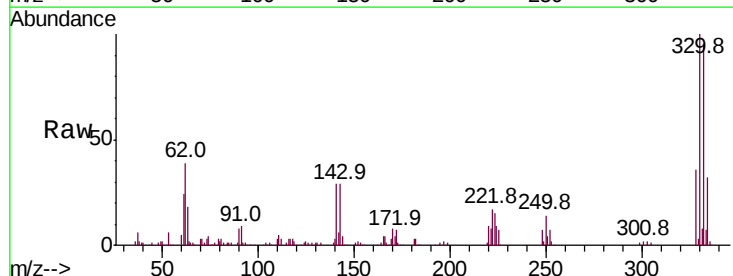
Instrument :  
BNA\_F  
ClientSampleId :

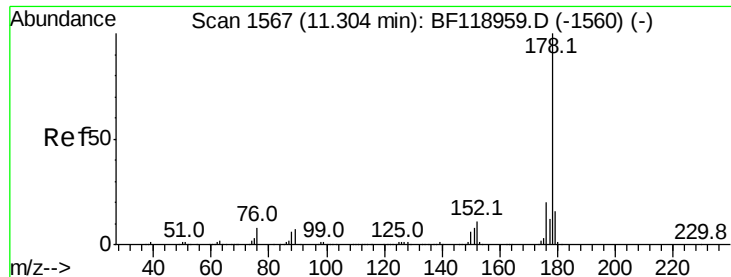
Tot Ion:188 Resp: 410024  
Ion Ratio Lower Upper  
188 100  
94 7.6 7.1 10.7  
80 8.9 7.8 11.8



#67  
4-Bromophenyl-phenylether  
Concen: 3.223 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.24 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

Tgt Ion:248 Resp: 17275  
Ion Ratio Lower Upper  
248 100  
250 198.1 76.7 115.1#  
141 428.9 60.7 91.1#

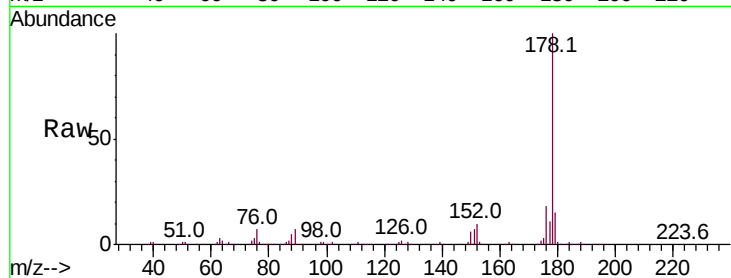




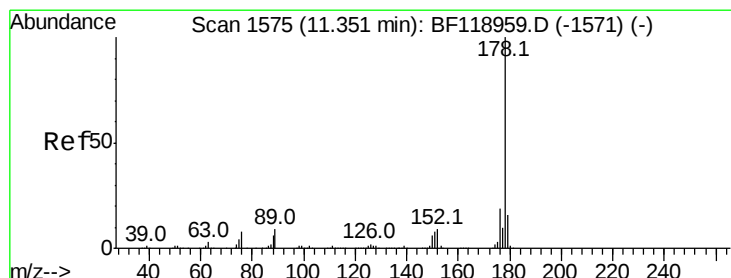
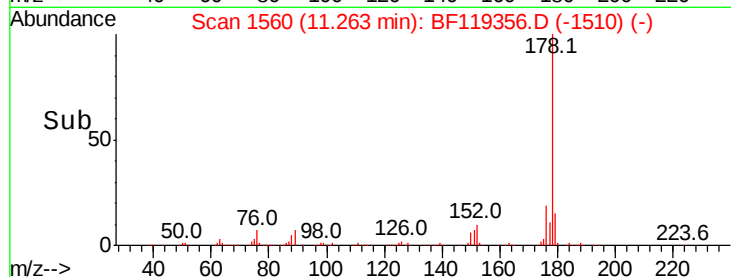
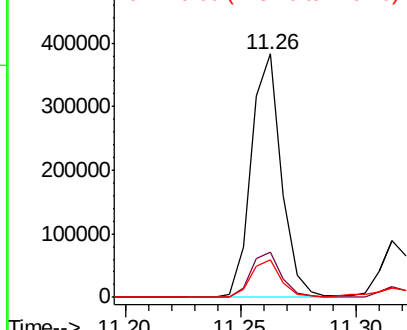
#71  
Phenanthrene  
Concen: 15.659 ng  
RT: 11.26 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:178 Resp: 350156  
Ion Ratio Lower Upper  
178 100  
176 18.5 16.5 24.7  
179 15.2 13.0 19.6

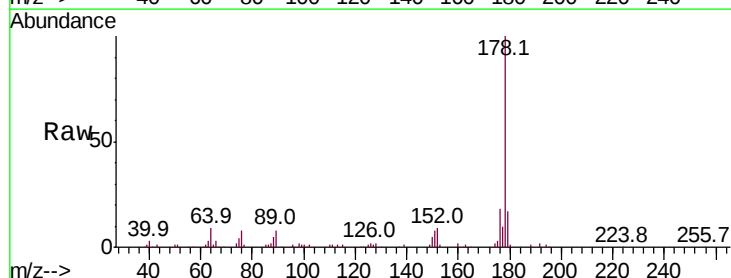


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

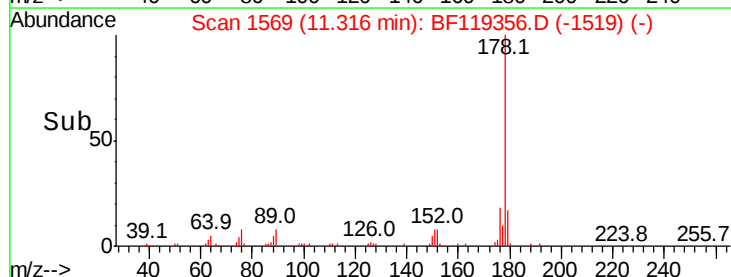
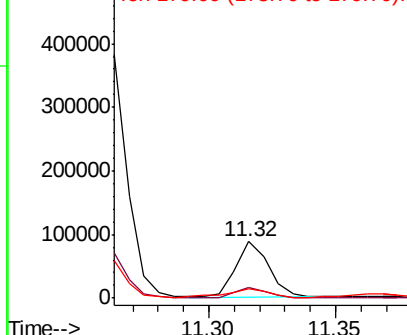


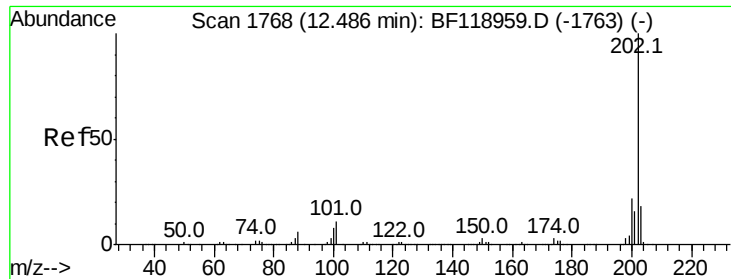
#72  
Anthracene  
Concen: 3.566 ng  
RT: 11.32 min Scan# 1569  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

Tgt Ion:178 Resp: 79664  
Ion Ratio Lower Upper  
178 100  
176 18.4 16.0 24.0  
179 17.5 13.1 19.7



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





#75

Fluoranthene

Concen: 23.243 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.01 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

Instrument :

BNA\_F

ClientSampleId :

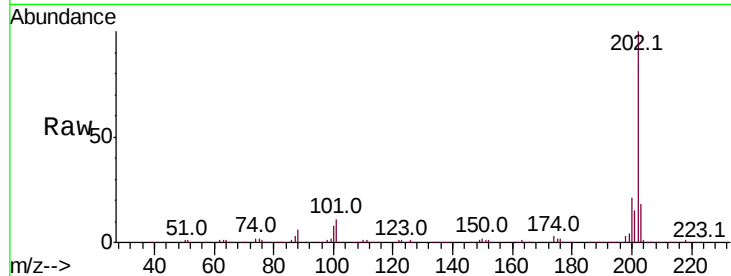
Tot Ion:202 Resp: 551689

Ion Ratio Lower Upper

202 100

101 11.5 0.0 30.3

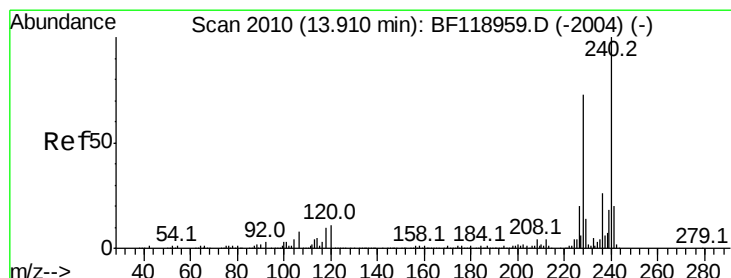
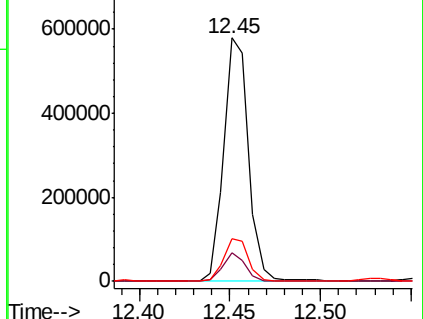
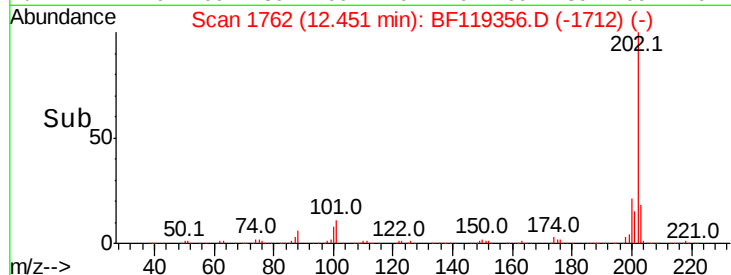
203 17.7 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.01 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

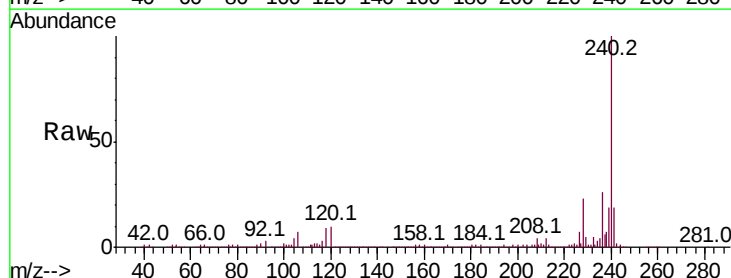
Tgt Ion:240 Resp: 281031

Ion Ratio Lower Upper

240 100

120 10.2 8.4 12.6

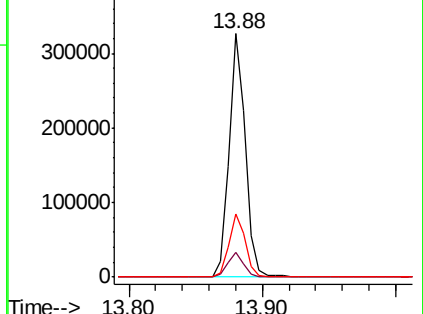
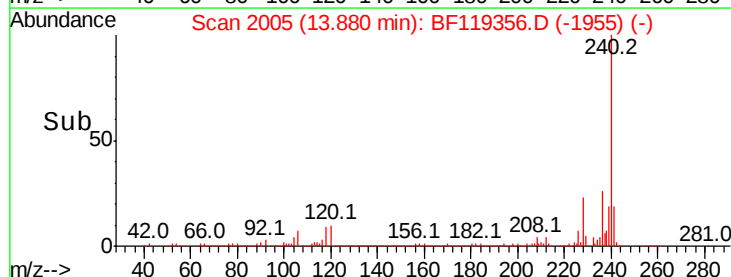
236 25.8 21.0 31.4

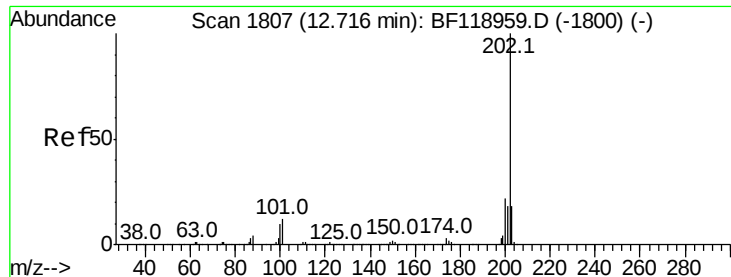


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 21.037 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.01 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

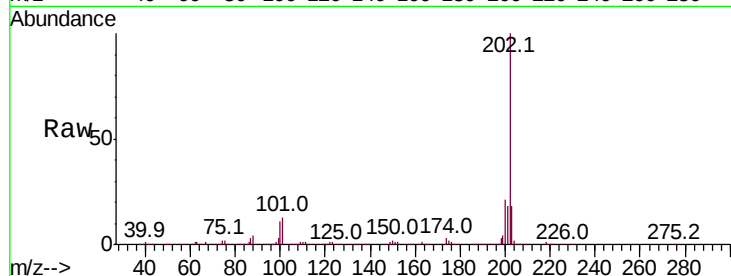
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:202 Resp: 474737

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.5  | 18.0  | 27.0  |
| 203 | 17.5  | 14.6  | 22.0  |

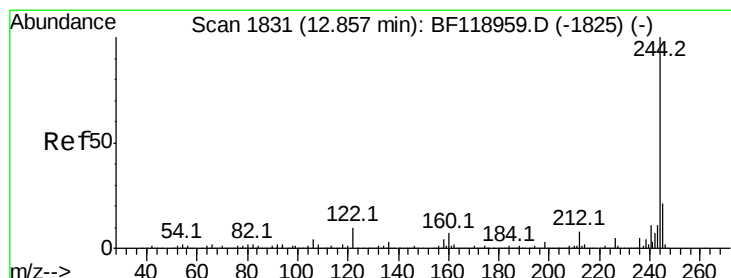
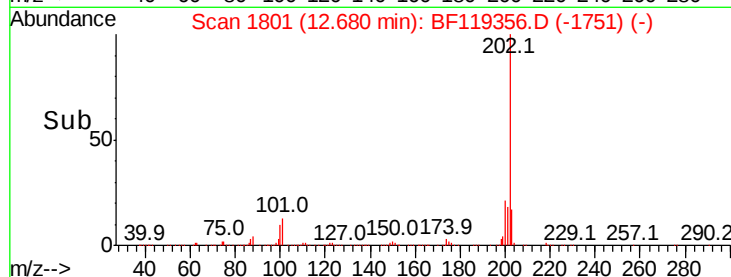
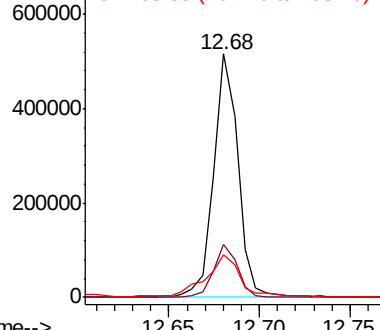


Abundance

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



#79

Terphenyl-d14

Concen: 64.154 ng

RT: 12.82 min Scan# 1825

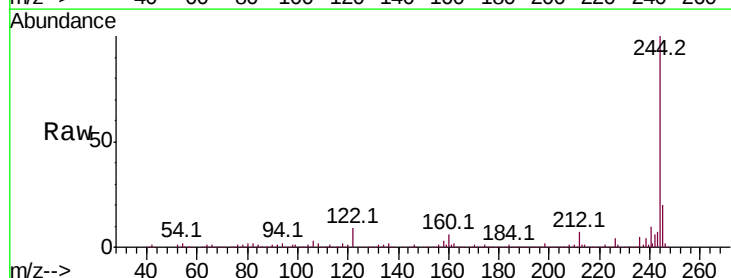
Delta R.T. -0.01 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

Tgt Ion:244 Resp: 1047187

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.8   | 6.6   | 10.0  |
| 122 | 8.6   | 8.2   | 12.2  |

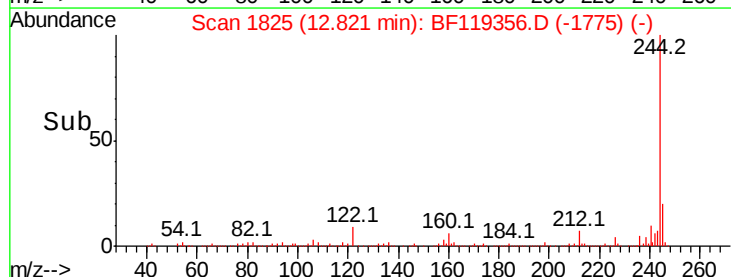
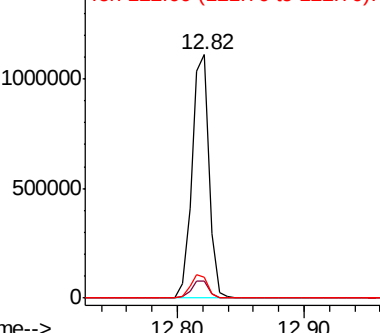


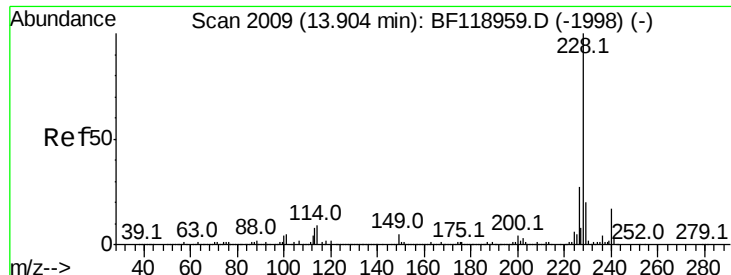
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

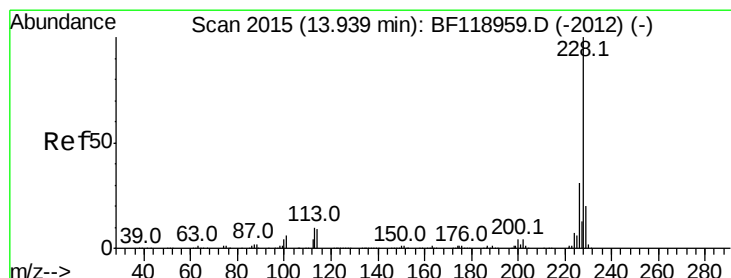
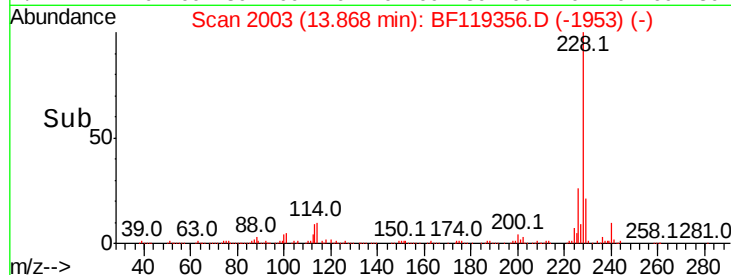
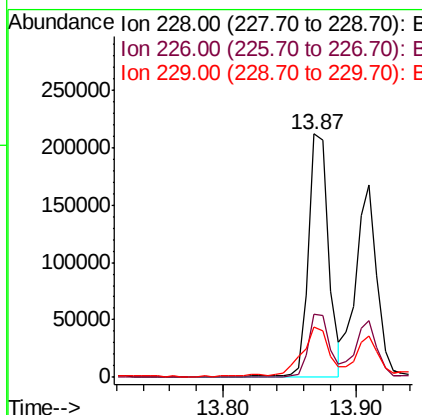
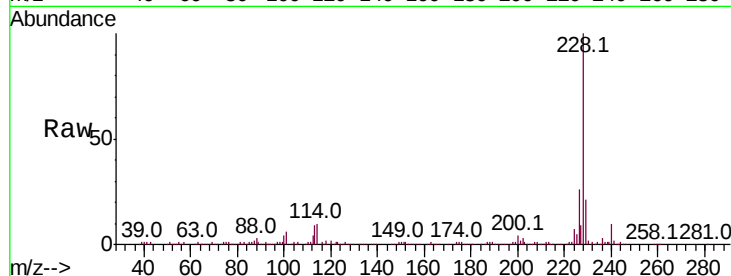




#81  
Benzo(a)anthracene  
Concen: 11.250 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

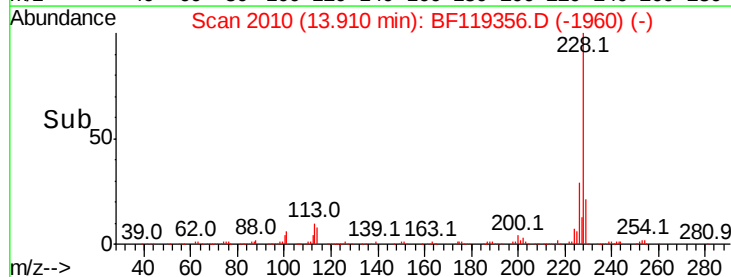
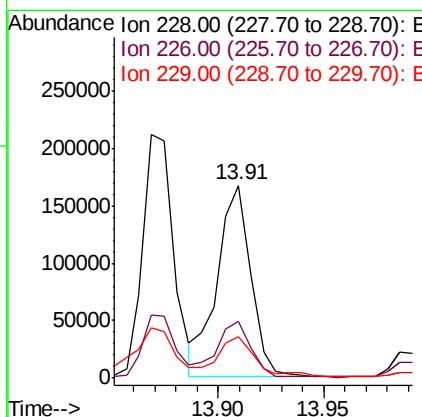
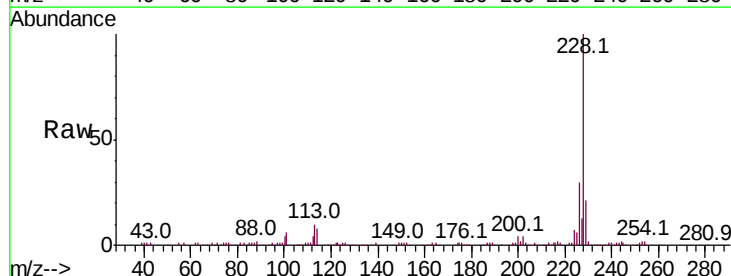
Instrument :  
BNA\_F  
ClientSampleId :

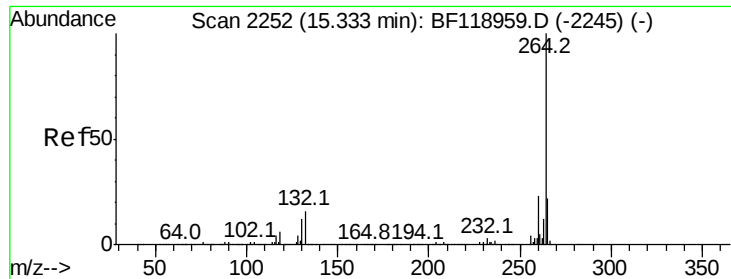
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.2  | 22.6  | 33.8  |
| 229     | 20.9  | 16.6  | 24.8  |



#83  
Chrysene  
Concen: 9.663 ng  
RT: 13.91 min Scan# 2010  
Delta R.T. -0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 25.1  | 37.7  |
| 229     | 21.5  | 16.3  | 24.5  |



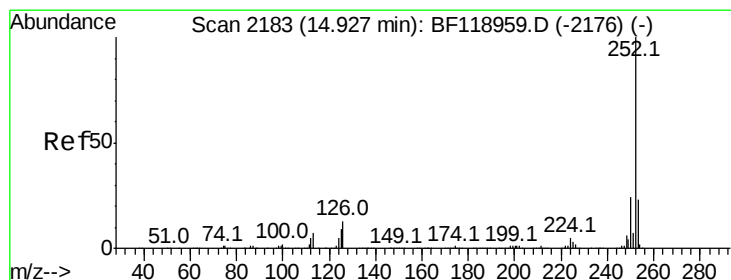
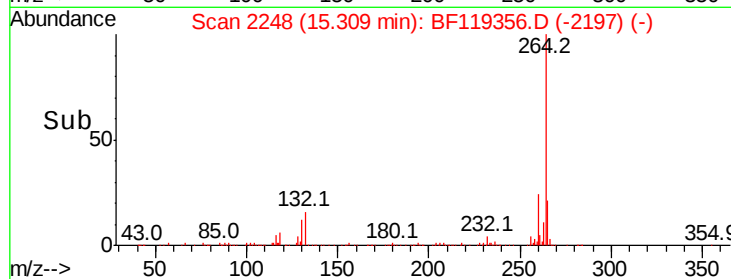
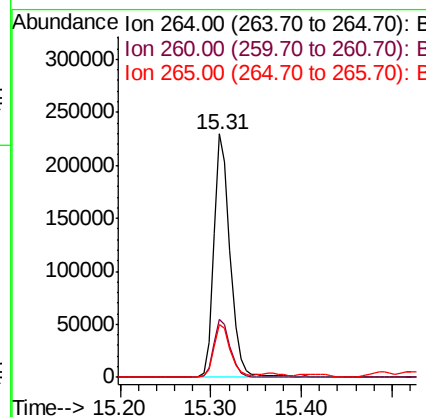
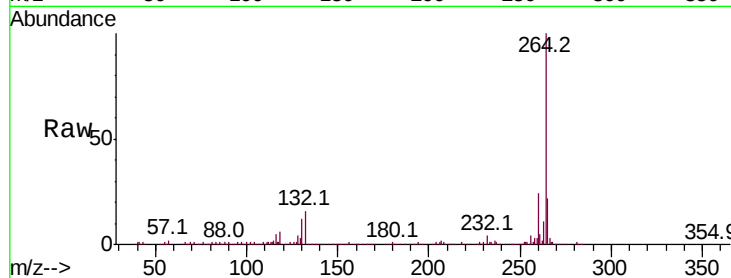


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.31 min Scan# 2248  
Delta R.T. 0.00 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 288571  

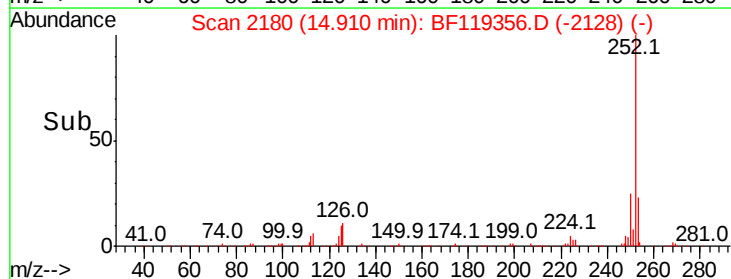
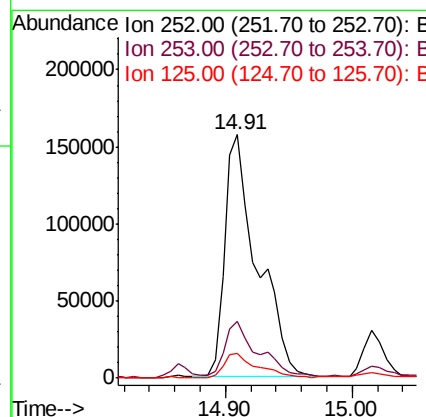
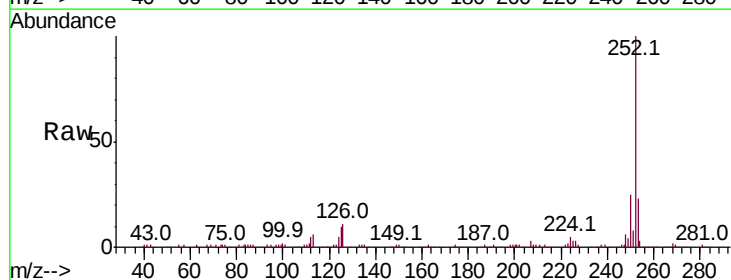
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.4  | 29.2  |
| 265 | 21.6  | 17.7  | 26.5  |

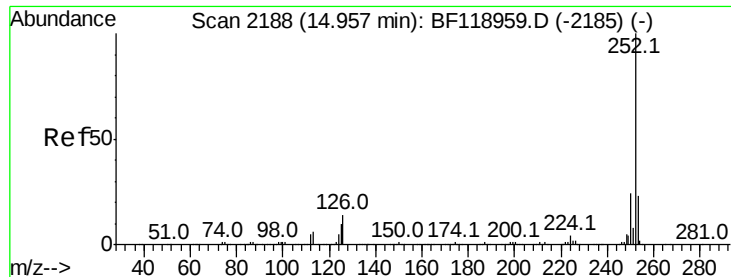


#88  
Benzo(b)fluoranthene  
Concen: 14.653 ng  
RT: 14.91 min Scan# 2180  
Delta R.T. 0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

Tgt Ion:252 Resp: 278715  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.1  | 18.1  | 27.1  |
| 125 | 10.3  | 7.4   | 11.0  |

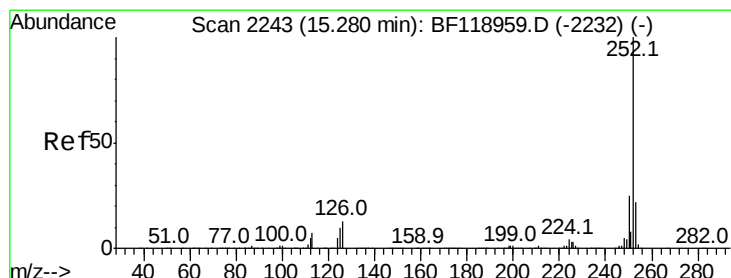
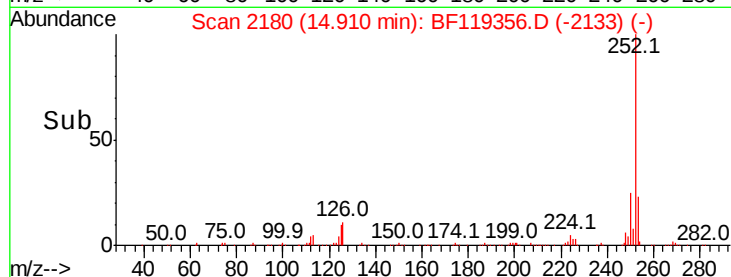
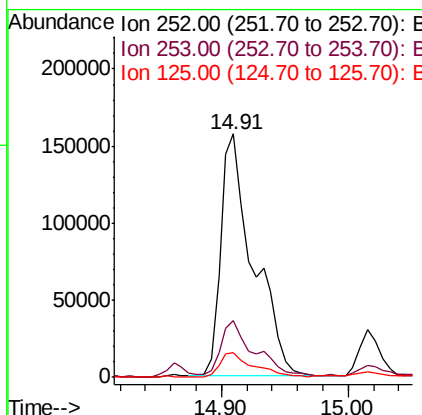
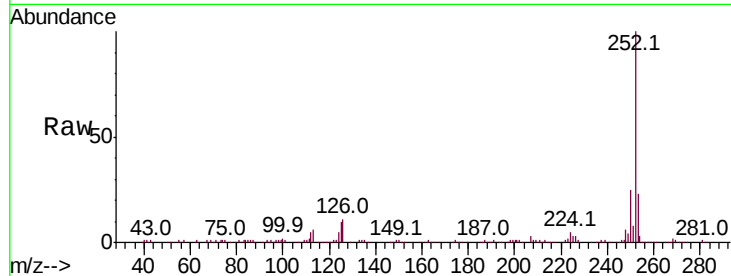




#89  
Benzo(k)fluoranthene  
Concen: 15.796 ng  
RT: 14.91 min Scan# 2180  
Delta R.T. -0.02 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

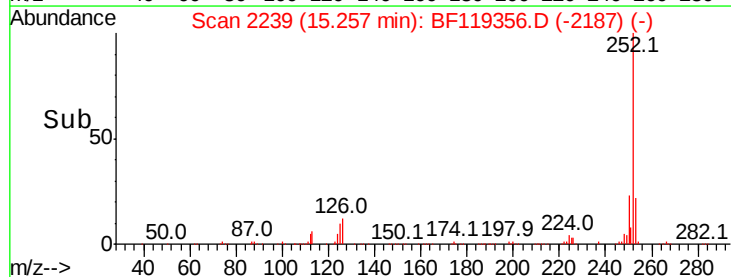
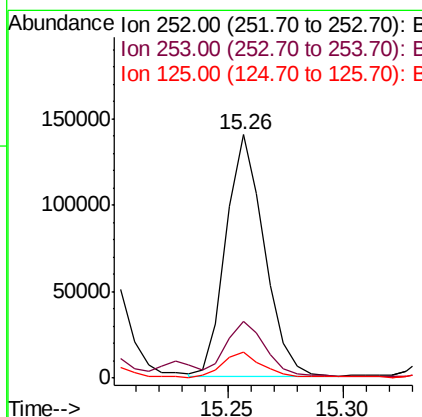
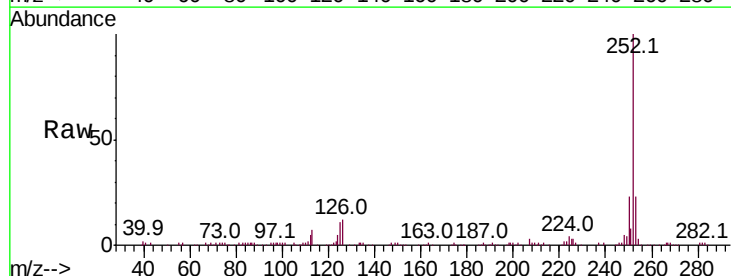
Instrument :  
BNA\_F  
ClientSampleId :

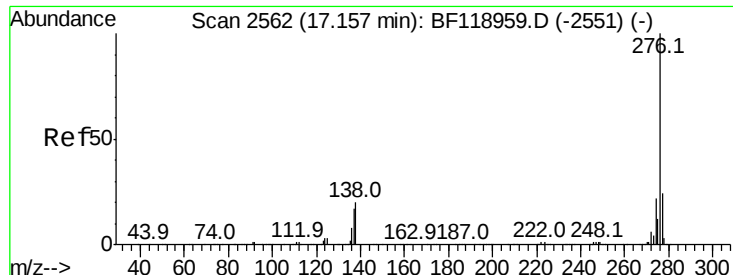
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.8  | 26.8  |
| 125     | 10.3  | 7.5   | 11.3  |



#90  
Benzo(a)pyrene  
Concen: 9.497 ng  
RT: 15.26 min Scan# 2239  
Delta R.T. 0.01 min  
Lab File: BF119356.D  
Acq: 11 Mar 2020 20:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 18.0  | 27.0  |
| 125     | 10.5  | 8.6   | 12.8  |





#92

Benzo(a,h,i)perylene

Concen: 6.152 ng

RT: 17.16 min Scan# 2562

Delta R.T. 0.02 min

Lab File: BF119356.D

Acq: 11 Mar 2020 20:09

Instrument :

BNA\_F

ClientSampleId :

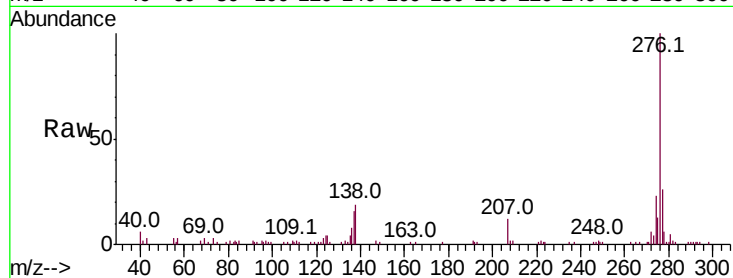
Tot Ion:276 Resp: 91822

Ion Ratio Lower Upper

276 100

277 26.1 18.7 28.1

138 19.0 14.3 21.5



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

