

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\  
 Data File : BF117605.D  
 Acq On : 29 Oct 2019 22:33  
 Operator : JU  
 Sample : K5587-13  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 30 04:22:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 18 18:53:31 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 34698    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 123441   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.76  | 164  | 54123    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.25 | 188  | 81702    | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.90 | 240  | 61210    | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.33 | 264  | 46786    | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.36  | 112  | 195393   | 83.78 | ng    | 0.00     |
| 7) Phenol-d6                | 6.39  | 99   | 268799   | 85.81 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 157160   | 62.85 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.56 | 330  | 34483    | 73.63 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.08  | 172  | 220140   | 57.31 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.83 | 244  | 197795   | 52.71 | ng    | 0.00     |

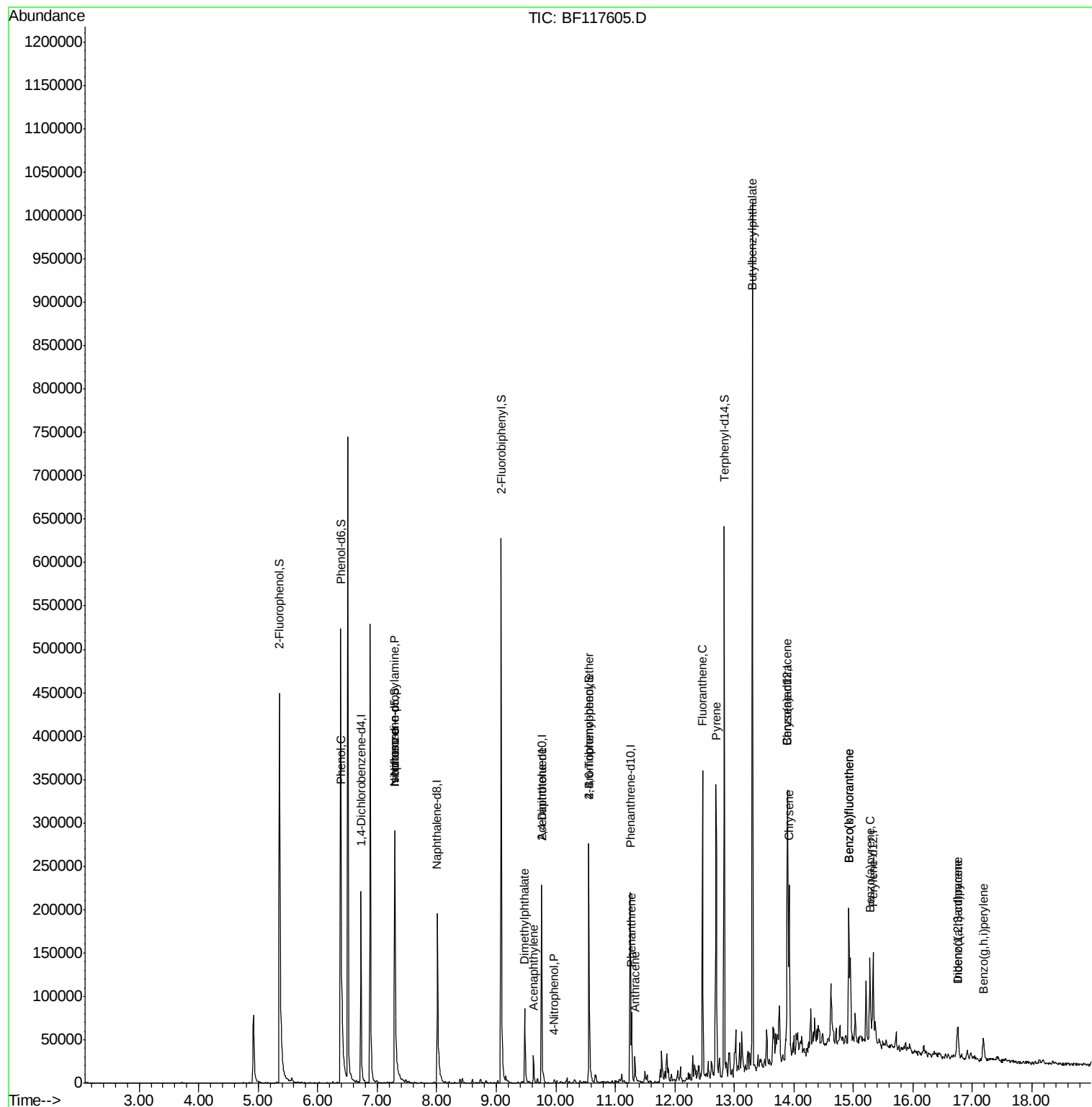
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.39  | 77   | 251      | Below Cal | #     | 3      |
| 10) Phenol                     | 6.40  | 94   | 6489     | 2.030     | ng    | # 69   |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 19656    | 10.274    | ng    | # 77   |
| 25) Isophorone                 | 7.29  | 82   | 157159   | 36.333    | ng    | # 65   |
| 49) Acenaphthylene             | 9.63  | 152  | 18234    | 3.675     | ng    | 98     |
| 50) Dimethylphthalate          | 9.48  | 163  | 40048    | 10.379    | ng    | 99     |
| 56) 4-Nitrophenol              | 9.98  | 139  | 762      | 5.737     | ng    | # 6    |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 7338     | 6.855     | ng    | # 12   |
| 67) 4-Bromophenyl-phenylether  | 10.56 | 248  | 2193     | 2.492     | ng    | # 1    |
| 71) Phenanthrene               | 11.27 | 178  | 32753    | 6.904     | ng    | 99     |
| 72) Anthracene                 | 11.33 | 178  | 20469    | 4.205     | ng    | 97     |
| 75) Fluoranthene               | 12.46 | 202  | 146469   | 30.840    | ng    | 100    |
| 77) Benzidine                  | 12.83 | 184  | 2805     | Below Cal | #     | 84     |
| 78) Pyrene                     | 12.69 | 202  | 135172   | 25.710    | ng    | 97     |
| 80) Butylbenzylphthalate       | 13.30 | 149  | 214152   | 81.853    | ng    | 99     |
| 81) Benzo(a)anthracene         | 13.89 | 228  | 88140    | 21.347    | ng    | 97     |
| 83) Chrysene                   | 13.92 | 228  | 70059    | 17.313    | ng    | 98     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.76 | 276  | 25226    | 8.350     | ng    | 97     |
| 88) Benzo(b)fluoranthene       | 14.92 | 252  | 105486   | 38.181    | ng    | 98     |
| 89) Benzo(k)fluoranthene       | 14.92 | 252  | 105486   | 37.252    | ng    | # 98   |
| 90) Benzo(a)pyrene             | 15.27 | 252  | 45825    | 18.243    | ng    | 94     |
| 91) Dibenzo(a,h)anthracene     | 16.74 | 278  | 5936     | 2.733     | ng    | # 73   |
| 92) Benzo(g,h,i)perylene       | 17.18 | 276  | 20741    | 10.092    | ng    | # 91   |

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

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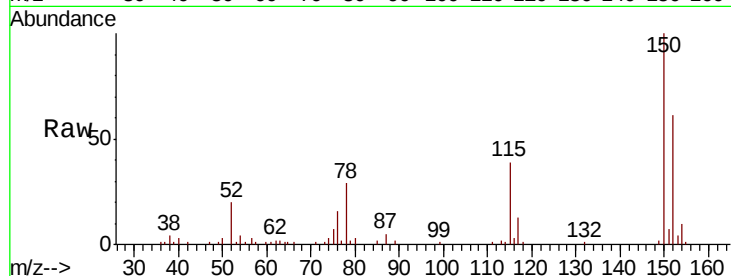


#1

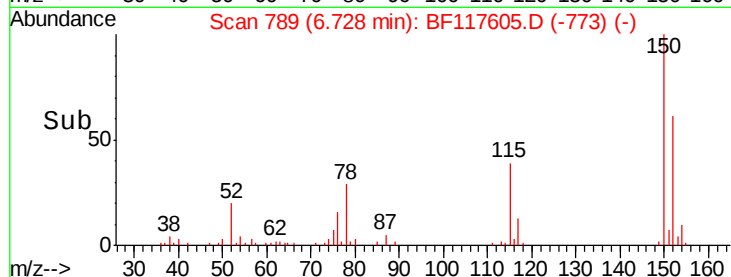
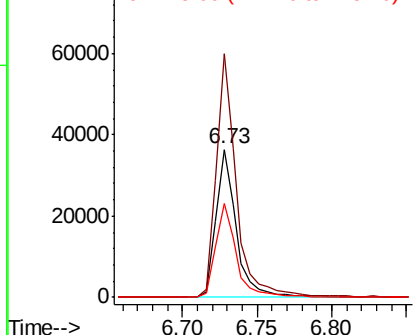
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. -0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 34698  
Ion Ratio Lower Upper  
152 100  
150 164.3 126.8 190.2  
115 63.4 51.6 77.4



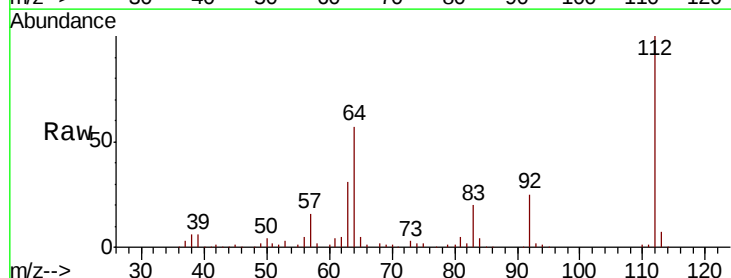
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



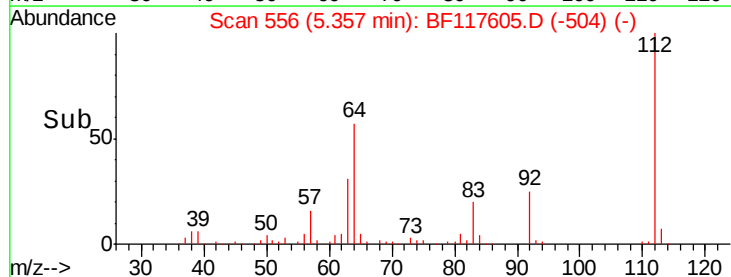
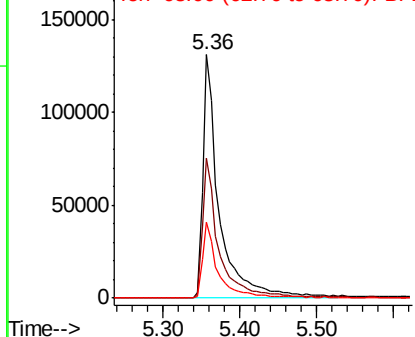
#5

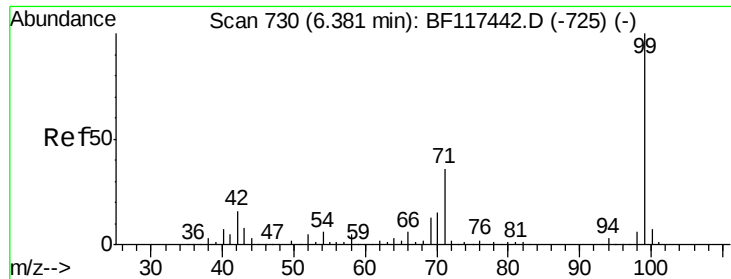
2-Fluorophenol  
Concen: 83.776 ng  
RT: 5.36 min Scan# 556  
Delta R.T. 0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Tgt Ion:112 Resp: 195393  
Ion Ratio Lower Upper  
112 100  
64 57.4 44.1 66.1  
63 31.0 23.4 35.2



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: 85.808 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF117605.D

Acq: 29 Oct 2019 22:33

Instrument :

BNA\_F

ClientSampleId :

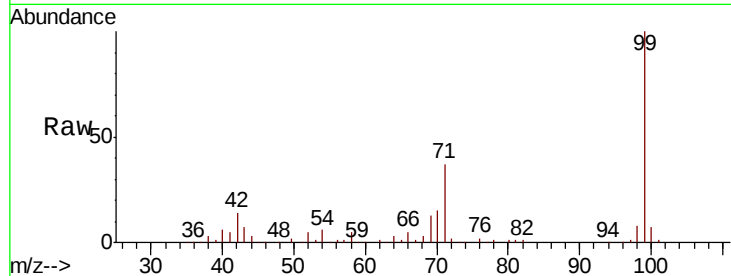
Tot Ion: 99 Resp: 268799

Ion Ratio Lower Upper

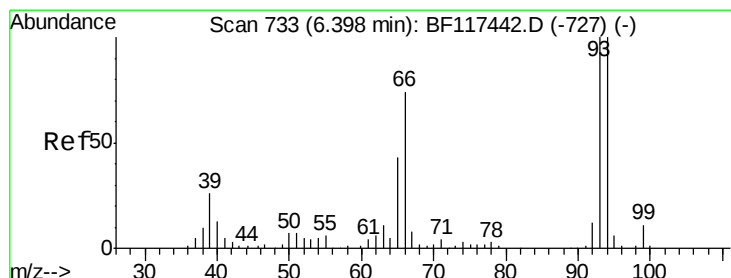
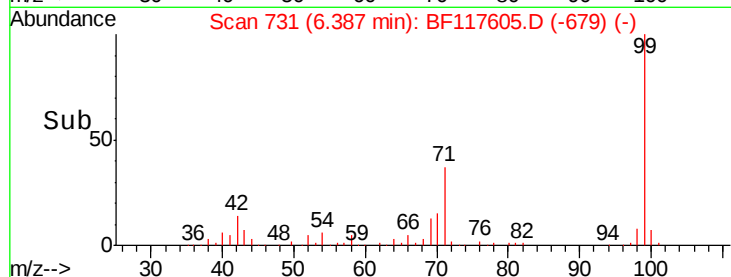
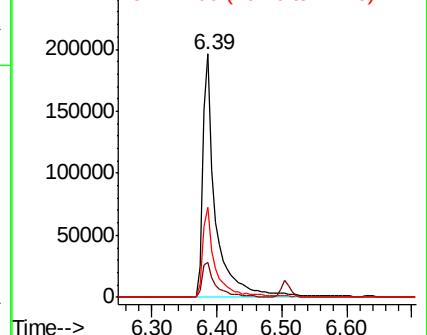
99 100

42 14.3 12.8 19.2

71 36.7 28.6 43.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.030 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.00 min

Lab File: BF117605.D

Acq: 29 Oct 2019 22:33

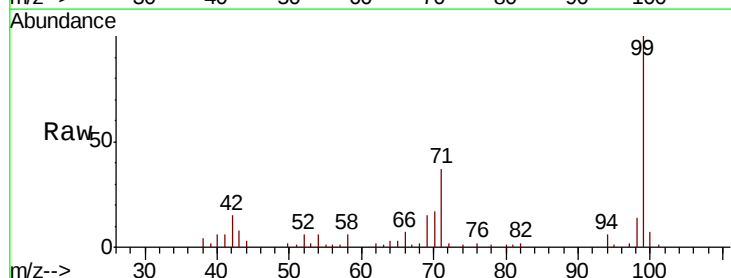
Tgt Ion: 94 Resp: 6489

Ion Ratio Lower Upper

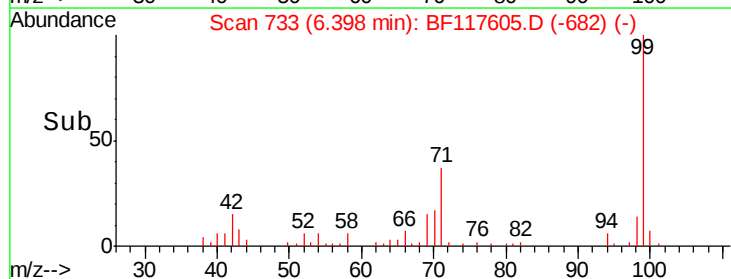
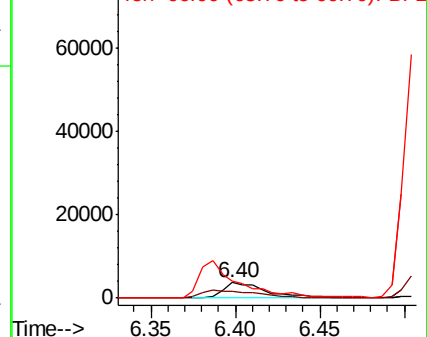
94 100

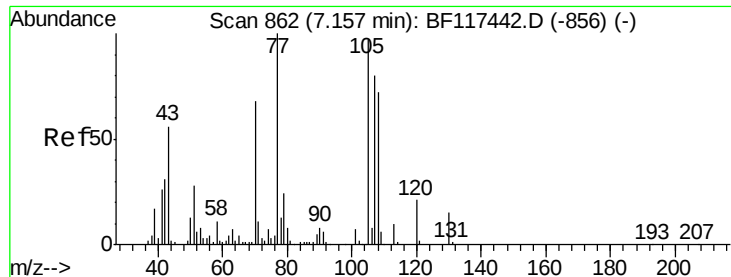
65 41.5 23.4 63.4

66 114.8 54.7 94.7#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

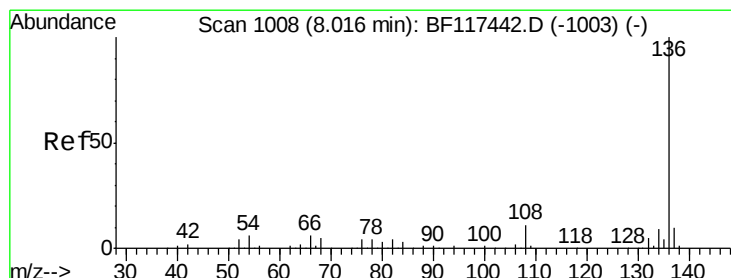
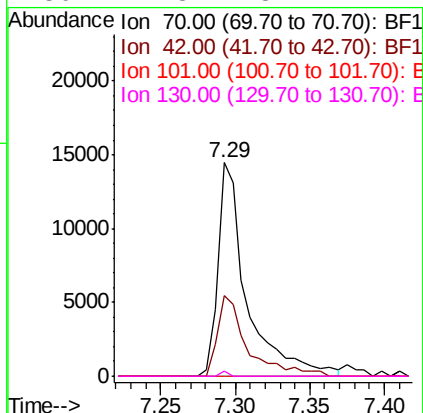
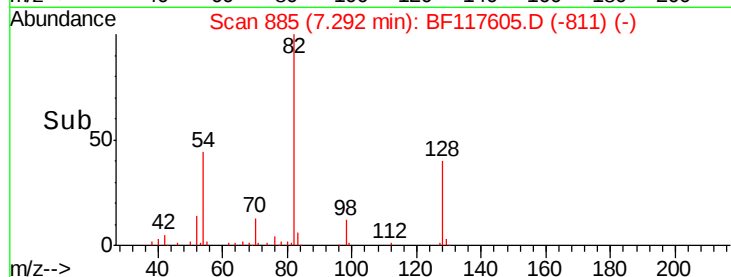
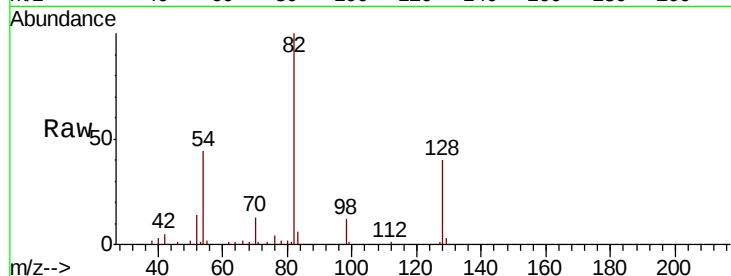




#19  
n-Nitroso-di-n-propylamine  
Concen: 10.274 ng  
RT: 7.29 min Scan# 885  
Delta R.T. 0.14 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

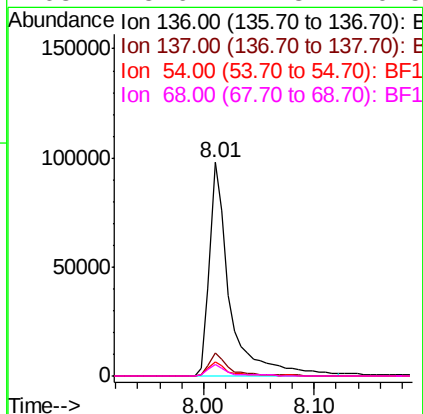
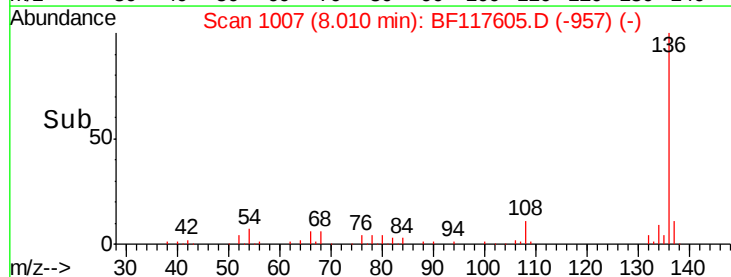
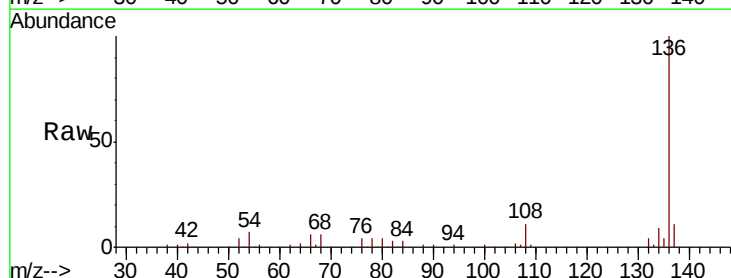
Instrument :  
BNA\_F  
ClientSampleId :

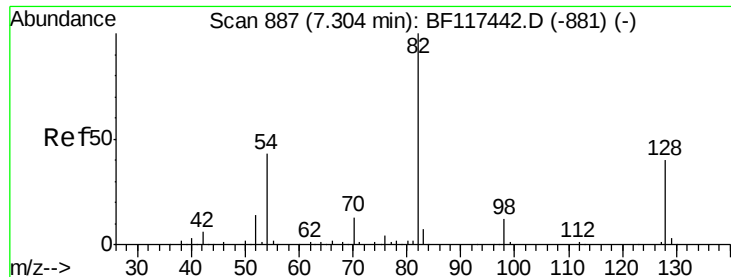
Tot Ion: 70 Resp: 19656  
Ion Ratio Lower Upper  
70 100  
42 37.7 36.7 55.1  
101 0.0 8.3 12.5#  
130 2.3 18.1 27.1#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Tgt Ion:136 Resp: 123441  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.2 12.4  
54 6.7 4.5 6.7#  
68 5.6 4.3 6.5

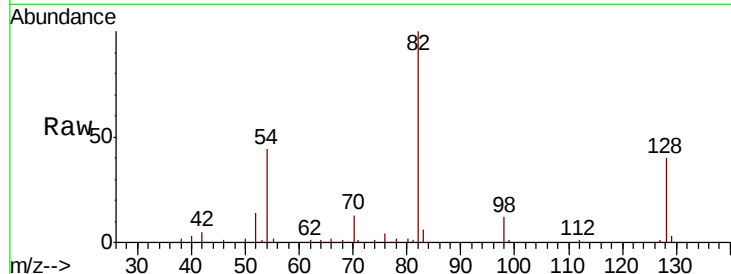




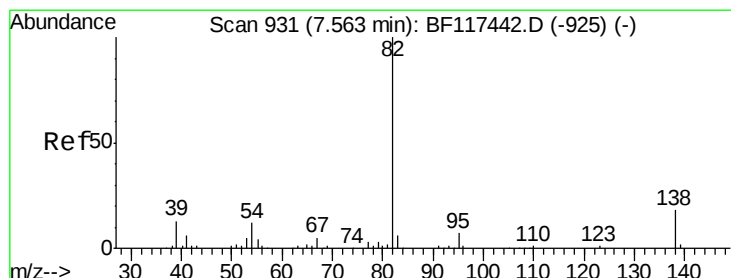
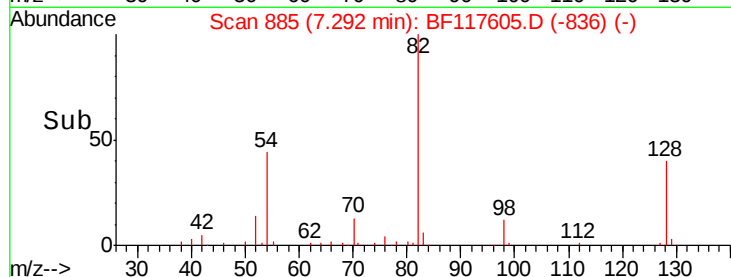
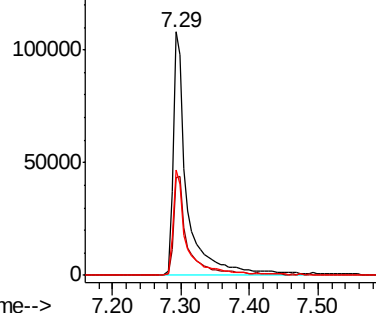
#23  
Nitrobenzene-d5  
Concen: 62.853 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion   | 82   | Resp  | 157160 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 40.1 | 32.2  | 48.2   |
| 54        | 43.5 | 34.2  | 51.2   |

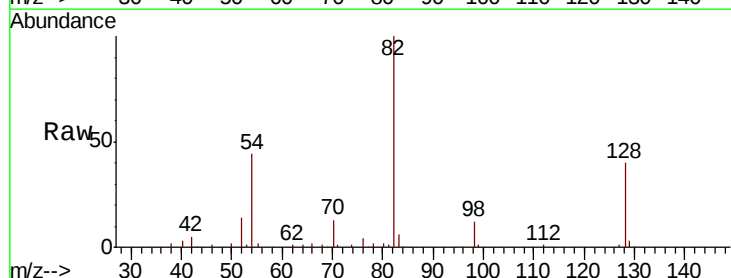


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

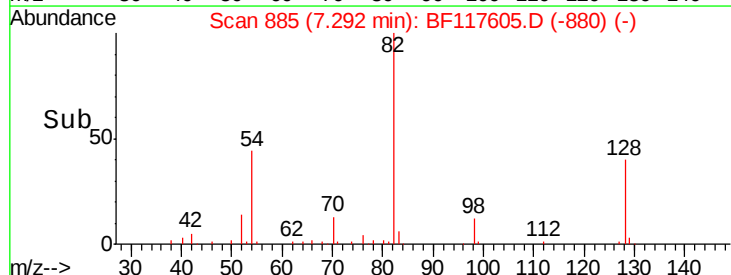
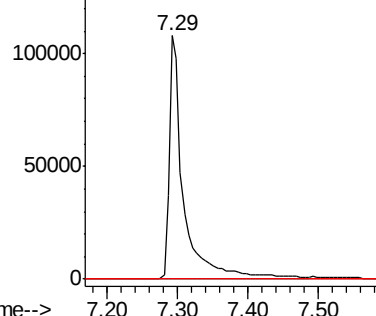


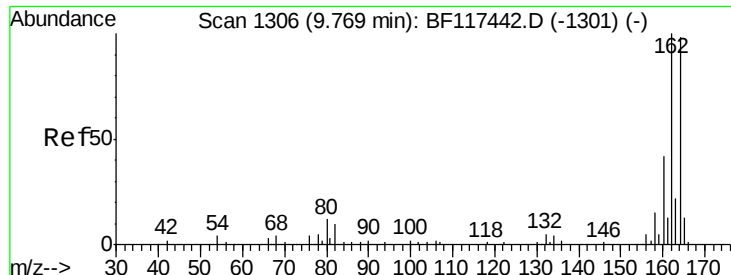
#25  
Isophorone  
Concen: 36.333 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.27 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

| Tgt Ion   | 82  | Resp  | 157159 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 95        | 0.0 | 5.4   | 8.0#   |
| 138       | 0.0 | 14.2  | 21.2#  |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF117605.D

Acq: 29 Oct 2019 22:33

Instrument :

BNA\_F

ClientSampleId :

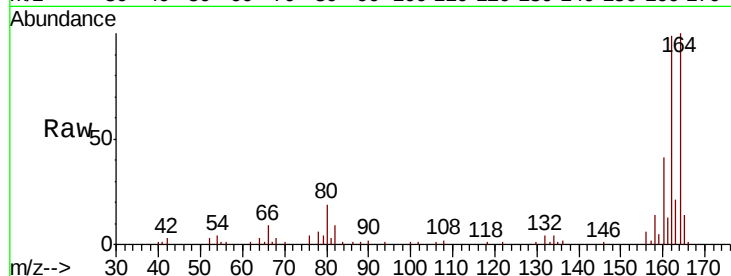
Tot Ion:164 Resp: 54123

Ion Ratio Lower Upper

164 100

162 99.5 81.8 122.6

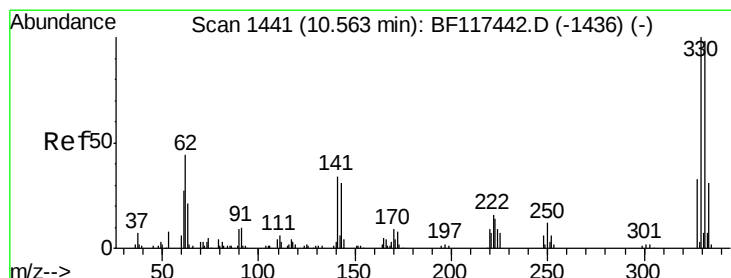
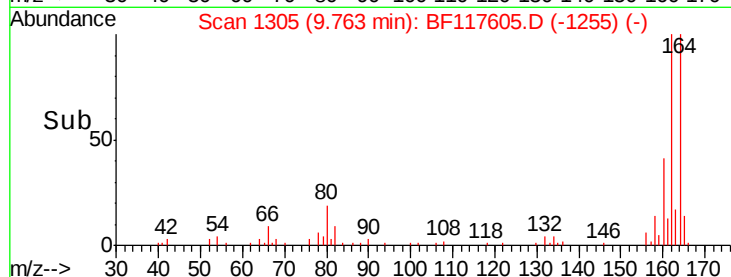
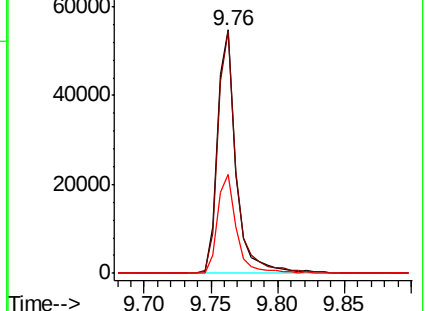
160 40.8 34.4 51.6



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



#42

2,4,6-Tribromophenol

Concen: 73.634 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.01 min

Lab File: BF117605.D

Acq: 29 Oct 2019 22:33

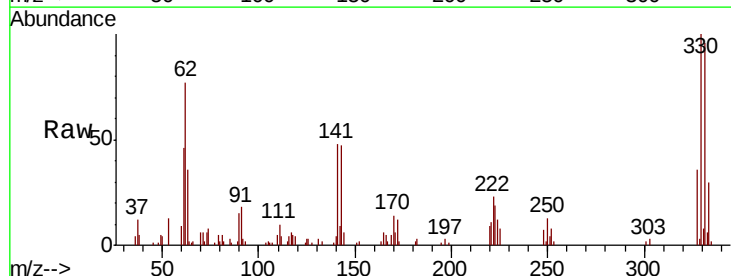
Tgt Ion:330 Resp: 34483

Ion Ratio Lower Upper

330 100

332 95.6 78.5 117.7

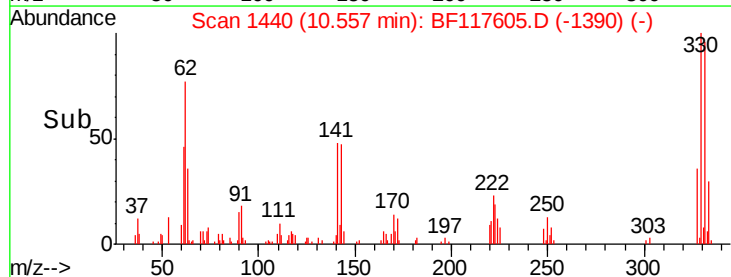
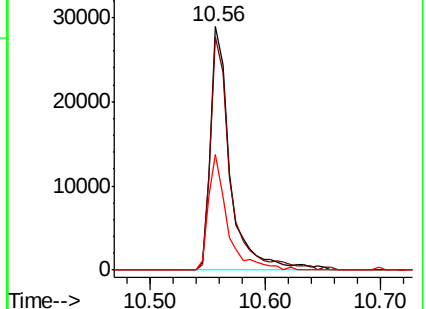
141 45.2 37.0 55.6



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

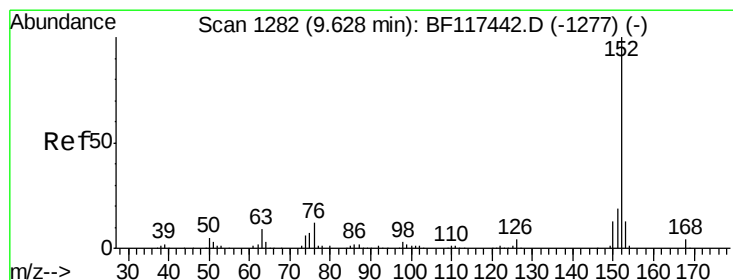
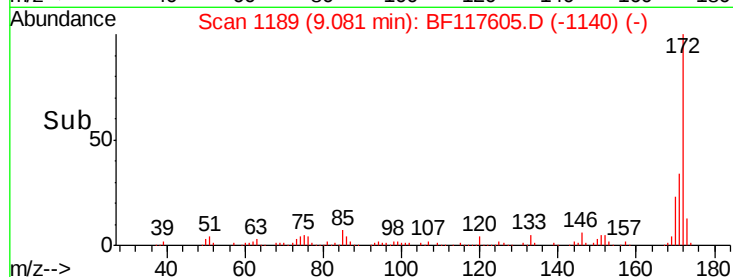
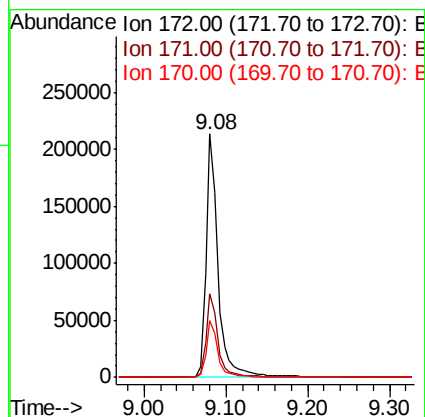
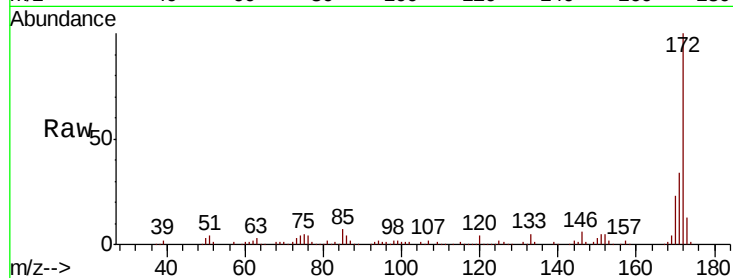




#45  
2-Fluorobiphenyl  
Concen: 57.309 ng  
RT: 9.08 min Scan# 1189  
Delta R.T. -0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

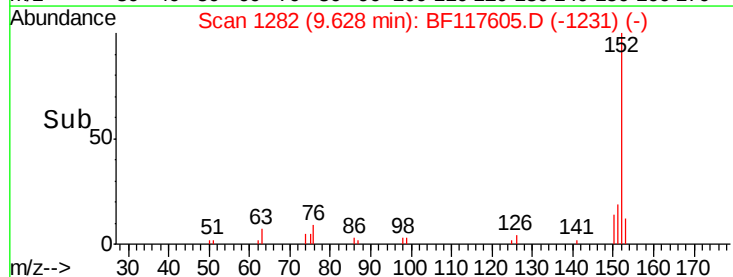
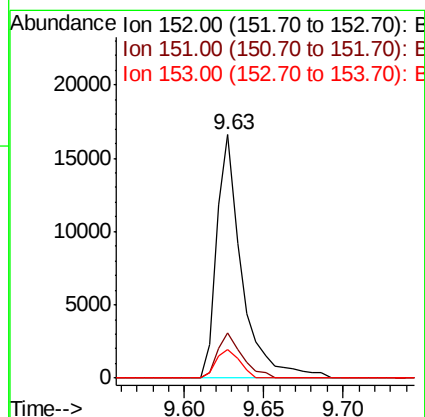
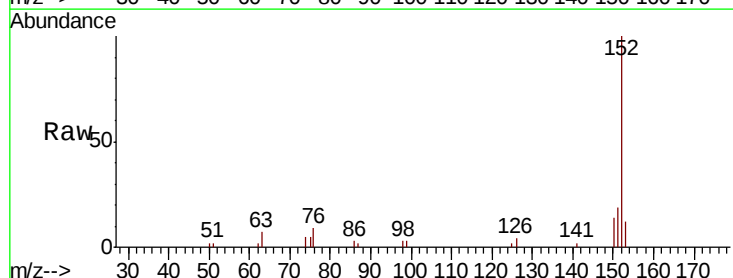
Instrument :  
BNA\_F  
ClientSampleId :

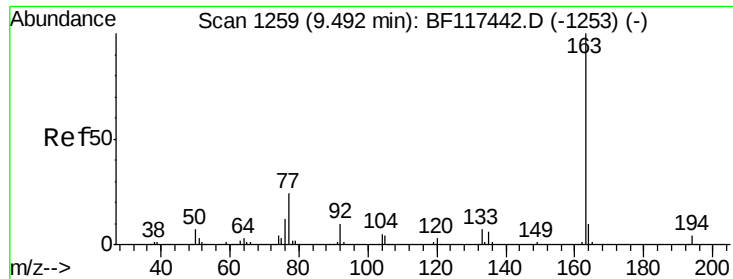
Tot Ion:172 Resp: 220140  
Ion Ratio Lower Upper  
172 100  
171 34.2 27.5 41.3  
170 23.3 18.6 27.8



#49  
Acenaphthylene  
Concen: 3.675 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.00 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Tgt Ion:152 Resp: 18234  
Ion Ratio Lower Upper  
152 100  
151 18.6 15.4 23.0  
153 11.8 10.3 15.5

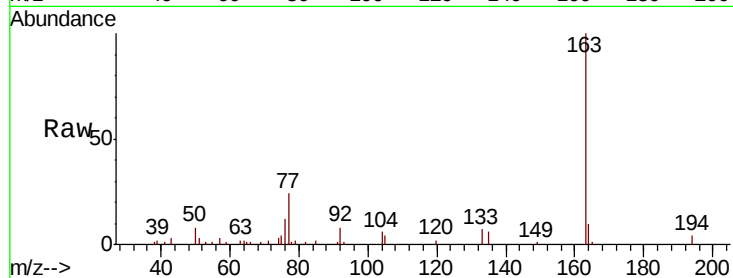




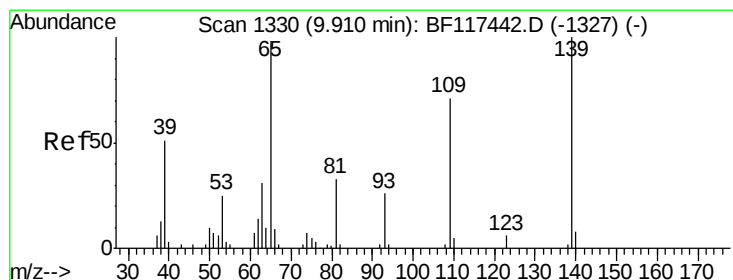
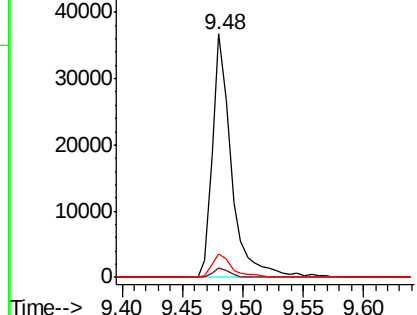
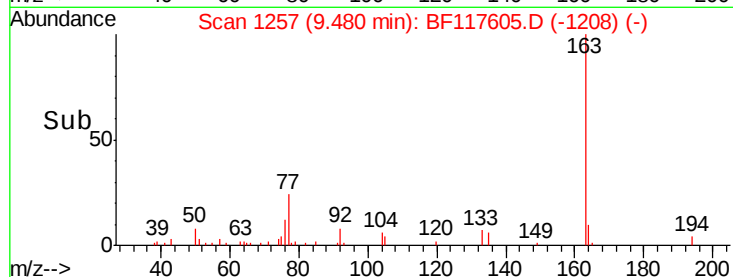
#50  
Dimethylphthalate  
Concen: 10.379 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.0   | 2.9   | 4.3   |
| 164     | 9.6   | 8.2   | 12.2  |

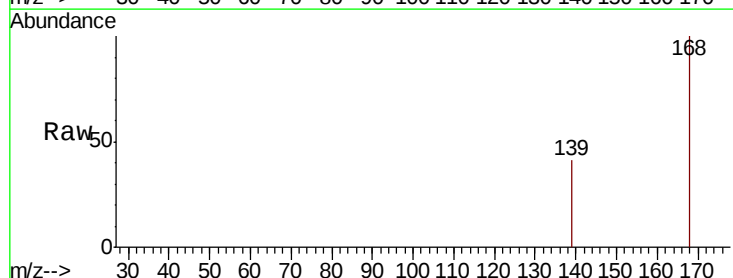


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

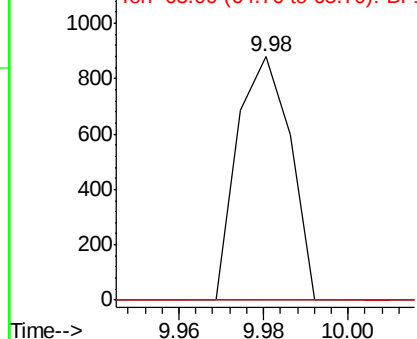
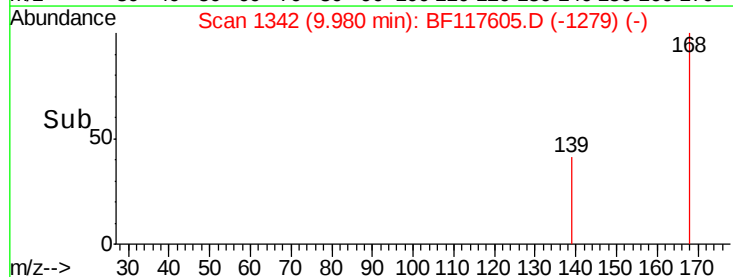


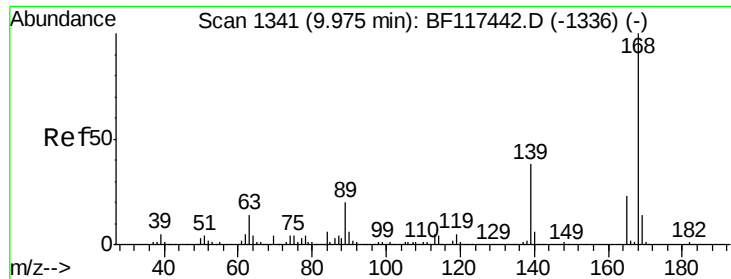
#56  
4-Nitrophenol  
Concen: 5.737 ng  
RT: 9.98 min Scan# 1342  
Delta R.T. 0.07 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 0.0   | 51.4  | 91.4#  |
| 65      | 0.0   | 79.4  | 119.4# |



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): BF1

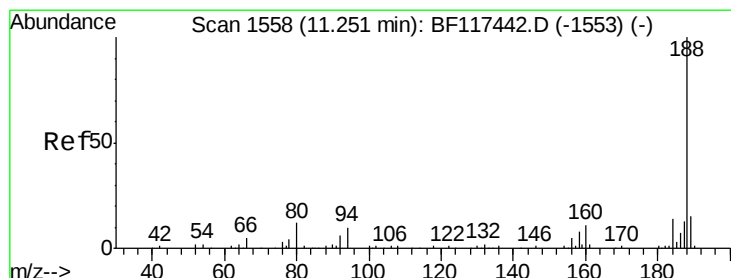
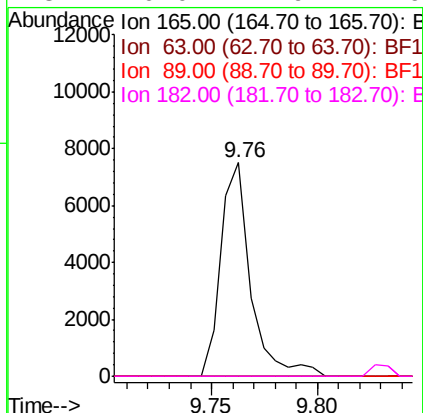
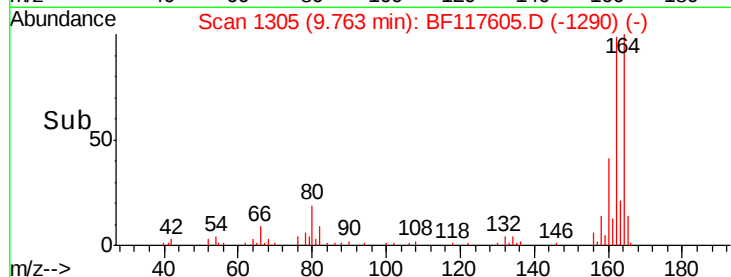
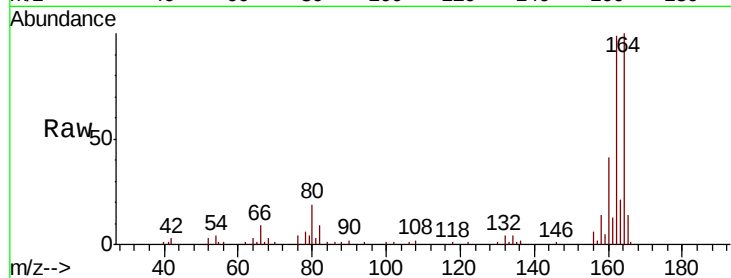




#57  
 2,4-Dinitrotoluene  
 Concen: 6.855 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.21 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

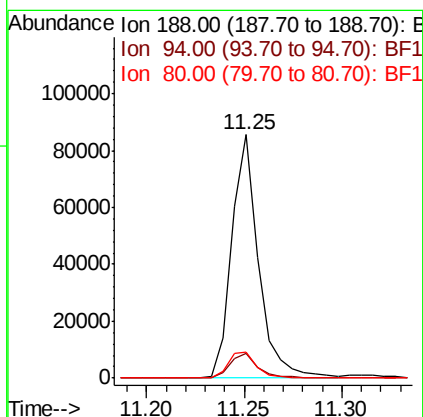
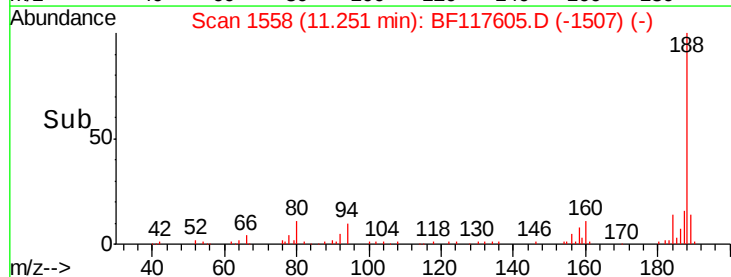
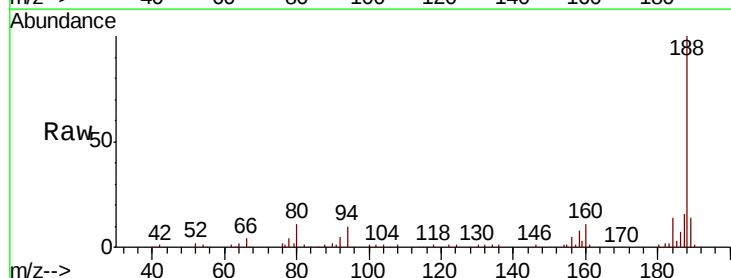
Instrument :  
 BNA\_F  
 ClientSampleId :

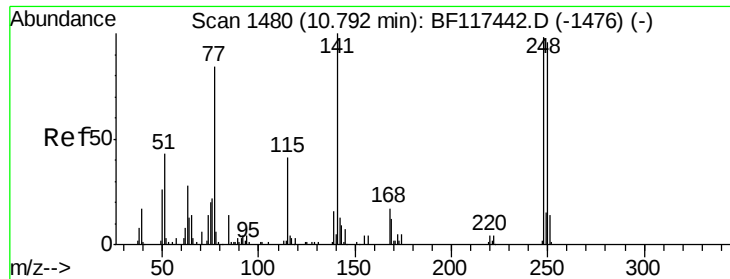
Tot Ion:165 Resp: 7338  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.4 77.0#  
 89 0.0 69.9 104.9#  
 182 0.0 1.9 2.9#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.25 min Scan# 1558  
 Delta R.T. -0.00 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

Tgt Ion:188 Resp: 81702  
 Ion Ratio Lower Upper  
 188 100  
 94 10.1 8.0 12.0  
 80 10.5 9.5 14.3

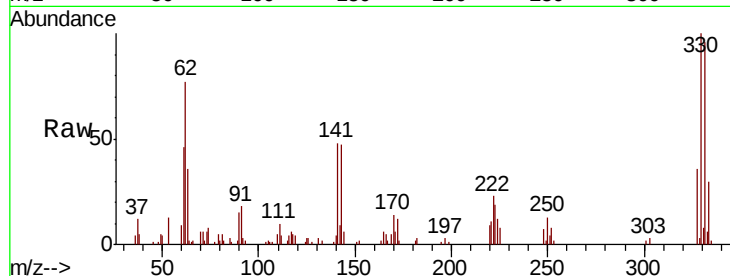




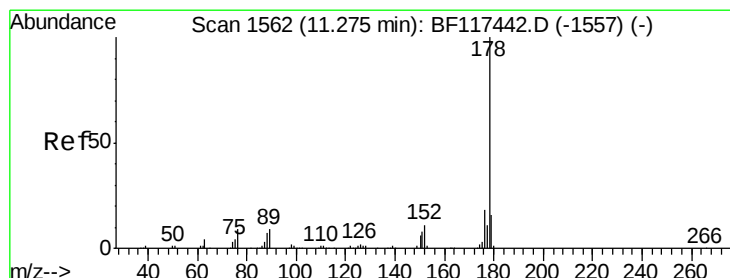
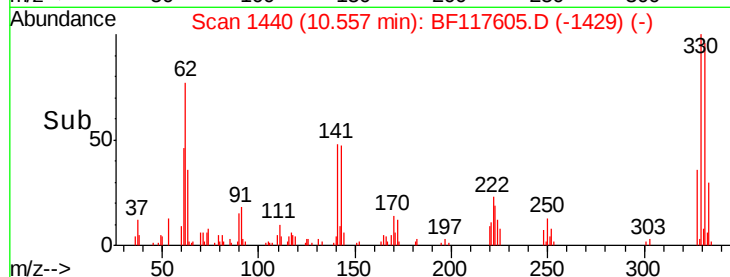
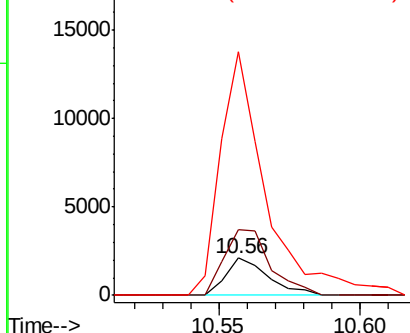
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.492 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.24 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 2193  
 Ion Ratio Lower Upper  
 248 100  
 250 176.8 78.0 117.0#  
 141 656.3 81.7 122.5#

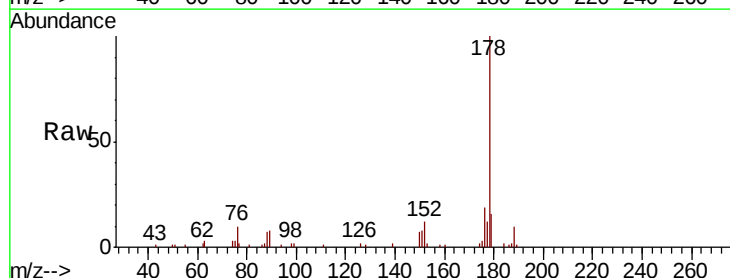


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

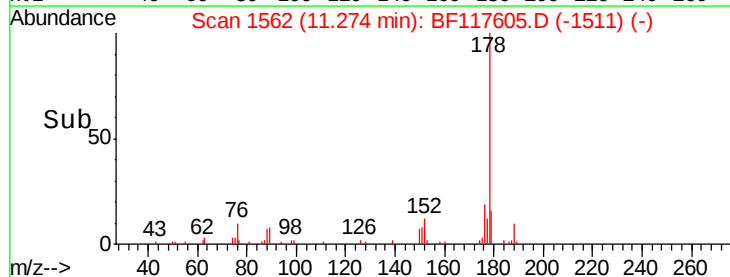
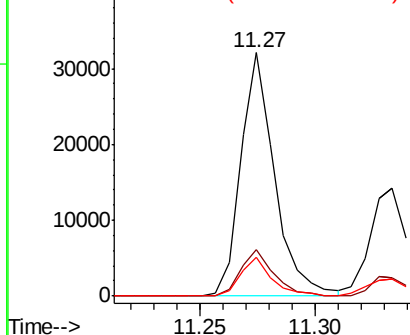


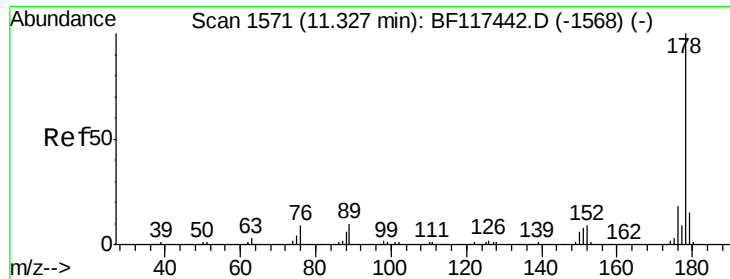
#71  
 Phenanthrene  
 Concen: 6.904 ng  
 RT: 11.27 min Scan# 1562  
 Delta R.T. -0.00 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

Tgt Ion:178 Resp: 32753  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 14.6 22.0  
 179 15.7 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

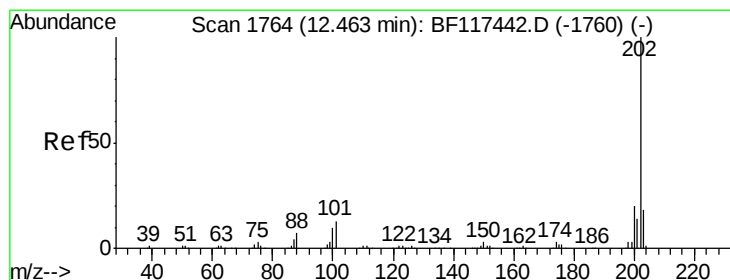
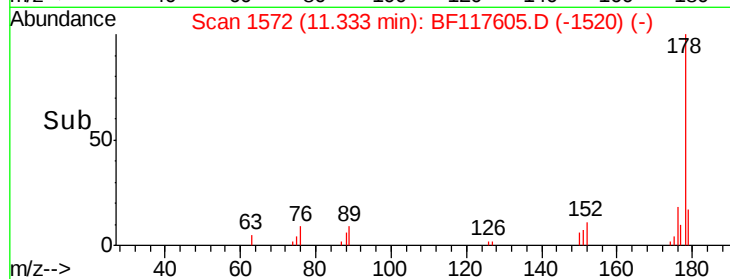
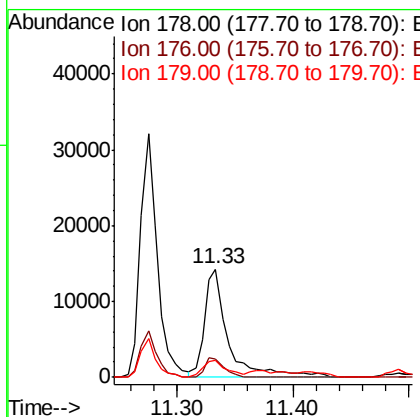
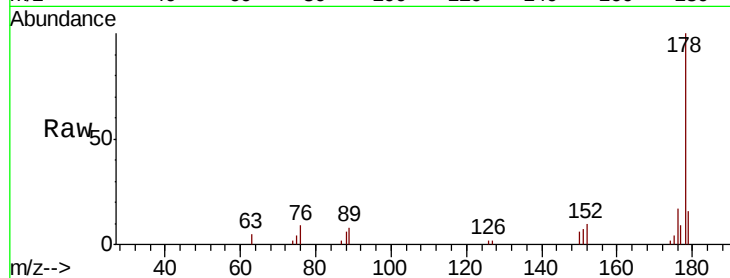




#72  
 Anthracene  
 Concen: 4.205 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. 0.01 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

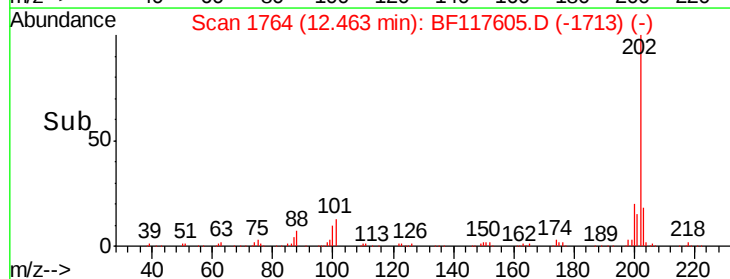
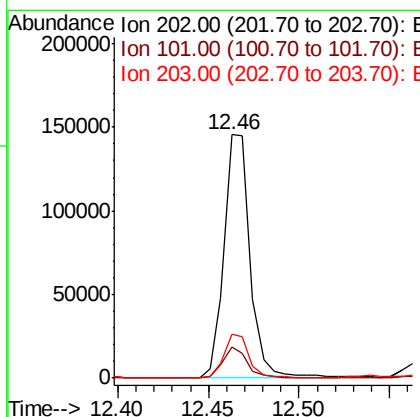
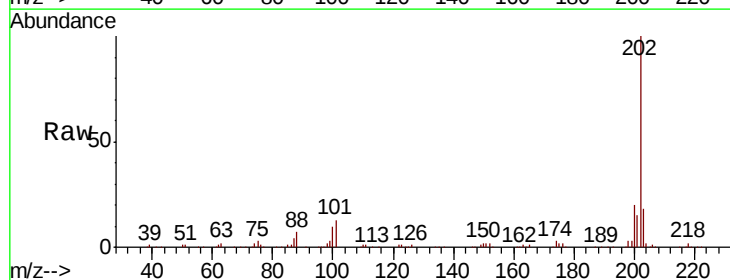
Instrument :  
 BNA\_F  
 ClientSampleId :

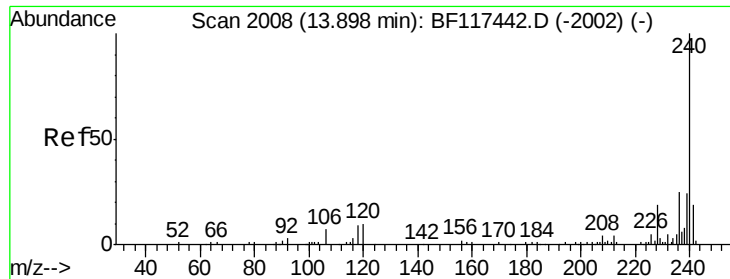
Tot Ion:178 Resp: 20469  
 Ion Ratio Lower Upper  
 178 100  
 176 17.3 14.7 22.1  
 179 16.4 12.2 18.2



#75  
 Fluoranthene  
 Concen: 30.840 ng  
 RT: 12.46 min Scan# 1764  
 Delta R.T. -0.00 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

Tgt Ion:202 Resp: 146469  
 Ion Ratio Lower Upper  
 202 100  
 101 12.8 0.0 32.7  
 203 17.9 0.0 37.6

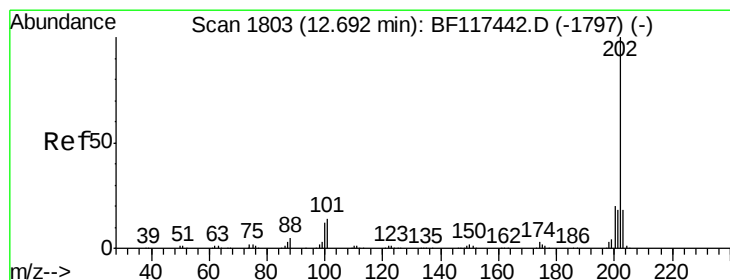
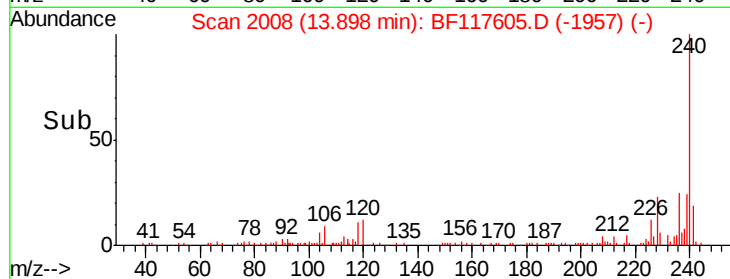
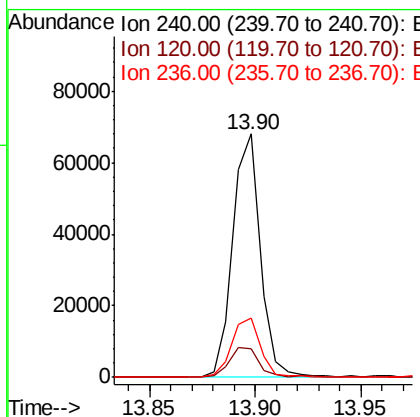
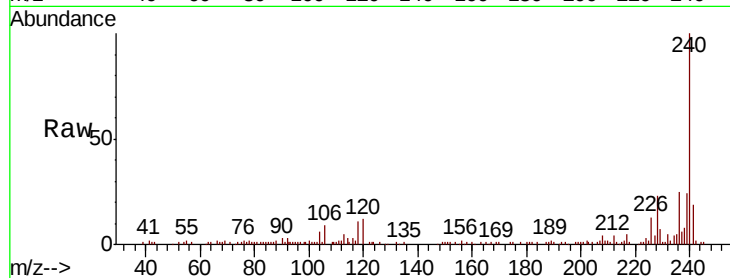




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.90 min Scan# 2008  
Delta R.T. -0.00 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

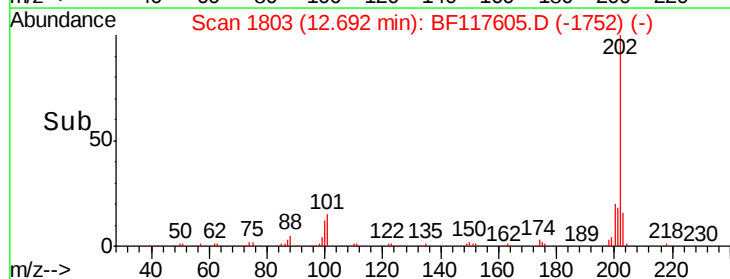
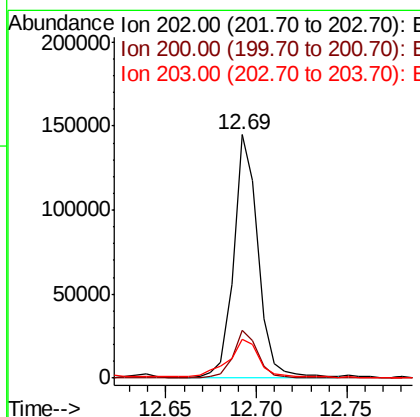
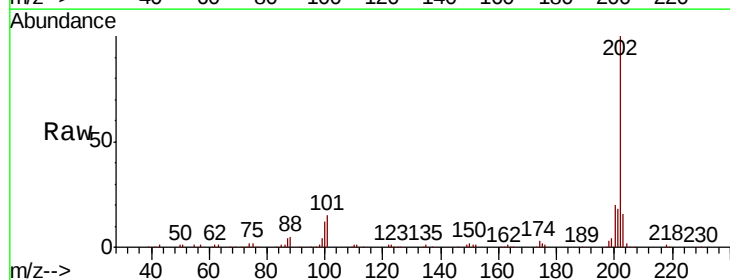
Instrument :  
BNA\_F  
ClientSampleId :

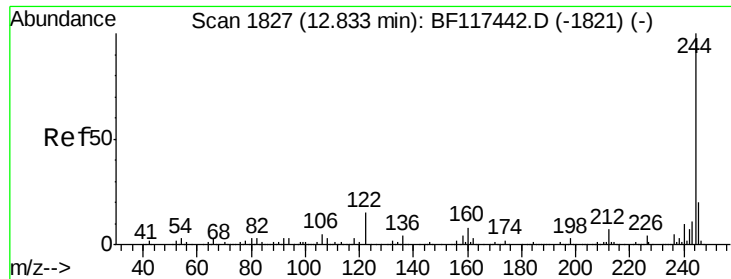
Tot Ion:240 Resp: 61210  
Ion Ratio Lower Upper  
240 100  
120 11.5 8.4 12.6  
236 24.5 20.0 30.0



#78  
Pyrene  
Concen: 25.710 ng  
RT: 12.69 min Scan# 1803  
Delta R.T. -0.00 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Tgt Ion:202 Resp: 135172  
Ion Ratio Lower Upper  
202 100  
200 19.5 16.2 24.2  
203 15.9 14.0 21.0

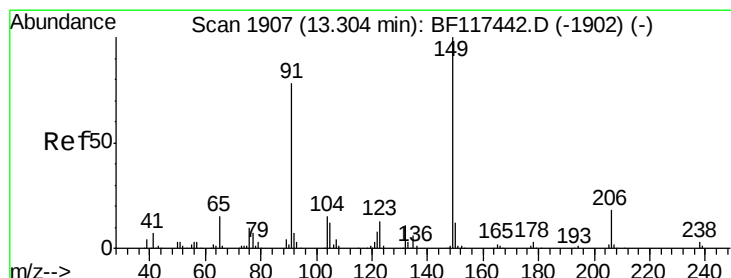
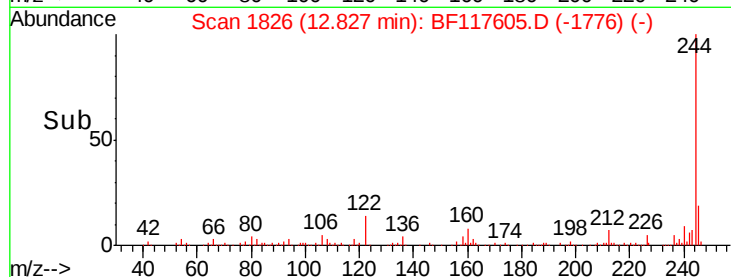
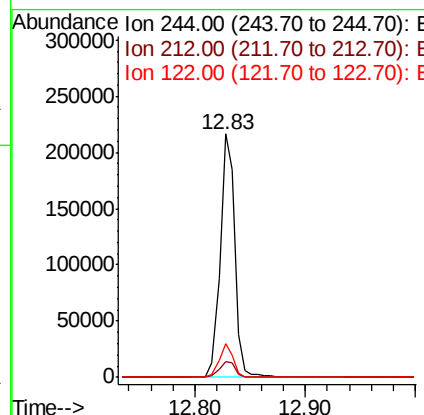
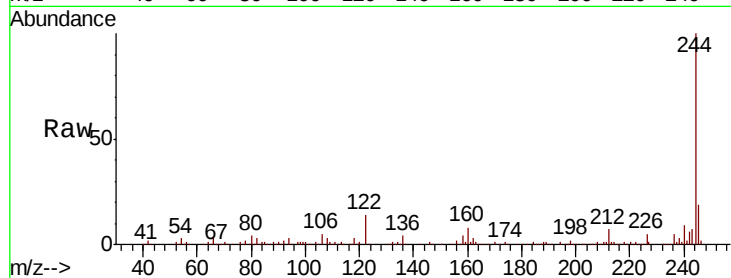




#79  
 Terphenyl-d14  
 Concen: 52.708 ng  
 RT: 12.83 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

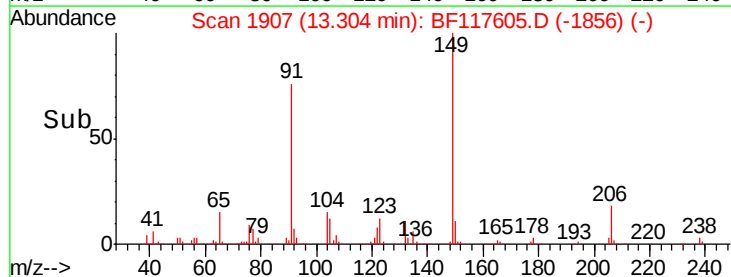
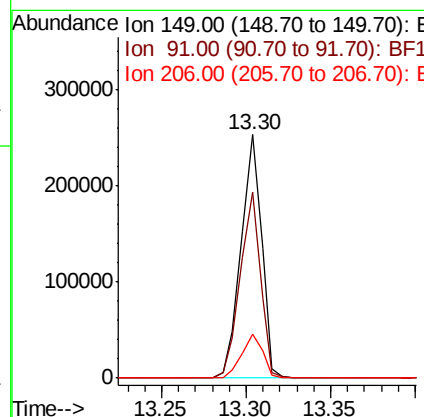
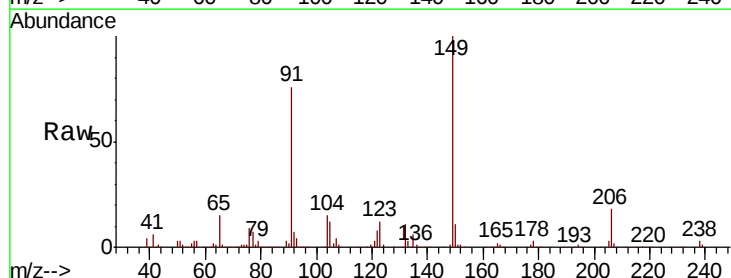
Instrument :  
 BNA\_F  
 ClientSampleID :

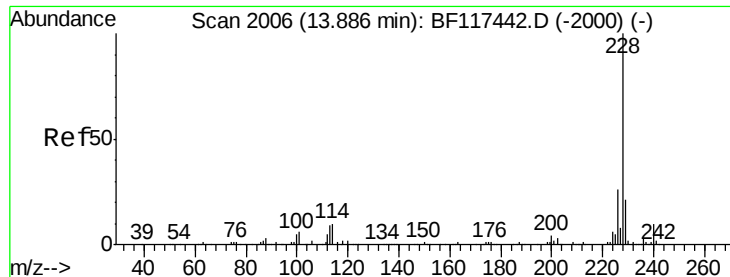
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.6   | 5.8   | 8.6   |
| 122     | 13.8  | 11.8  | 17.8  |



#80  
 Butylbenzylphthalate  
 Concen: 81.853 ng  
 RT: 13.30 min Scan# 1907  
 Delta R.T. -0.00 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 76.2  | 62.1  | 93.1  |
| 206     | 18.0  | 14.3  | 21.5  |

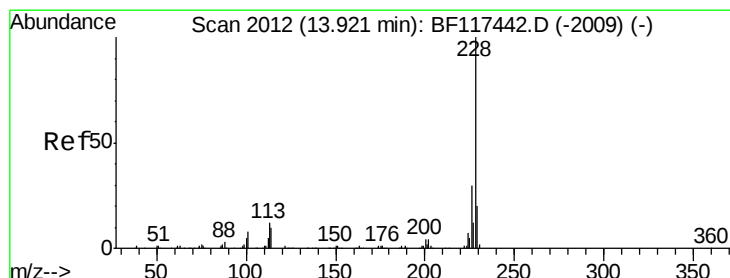
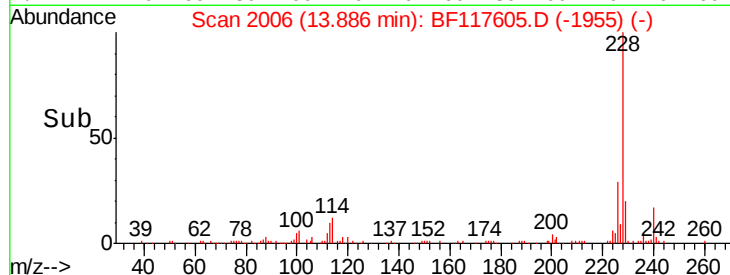
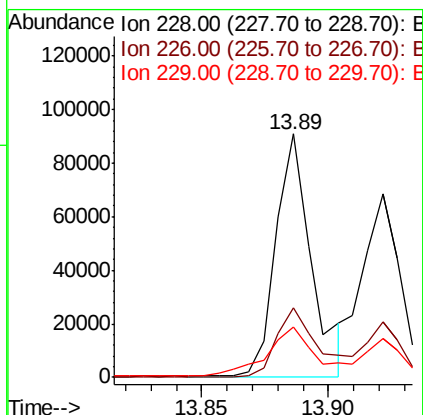
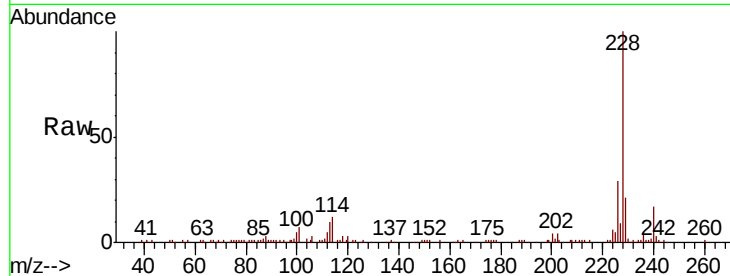




#81  
Benzo(a)anthracene  
Concen: 21.347 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. -0.00 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

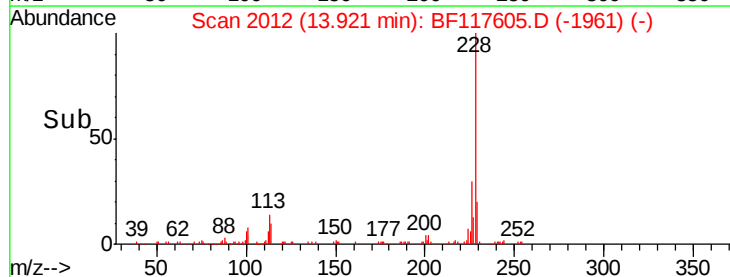
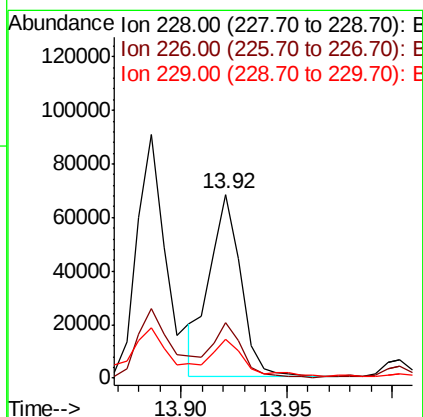
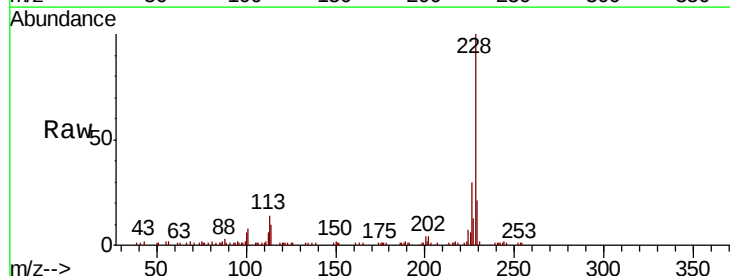
Instrument :  
BNA\_F  
ClientSampleId :

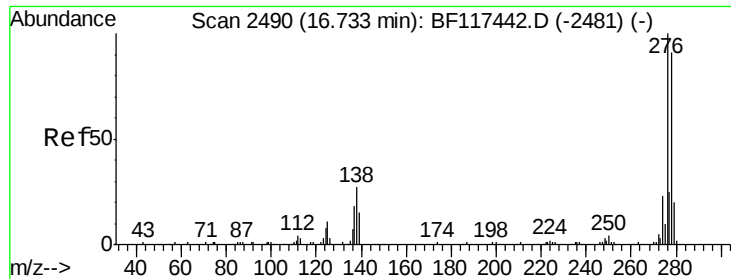
Tot Ion:228 Resp: 88140  
Ion Ratio Lower Upper  
228 100  
226 28.7 21.0 31.4  
229 20.8 16.4 24.6



#83  
Chrysene  
Concen: 17.313 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. -0.00 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Tgt Ion:228 Resp: 70059  
Ion Ratio Lower Upper  
228 100  
226 30.4 23.9 35.9  
229 20.9 15.8 23.6

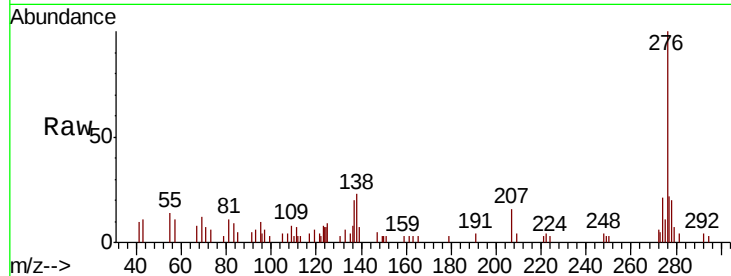




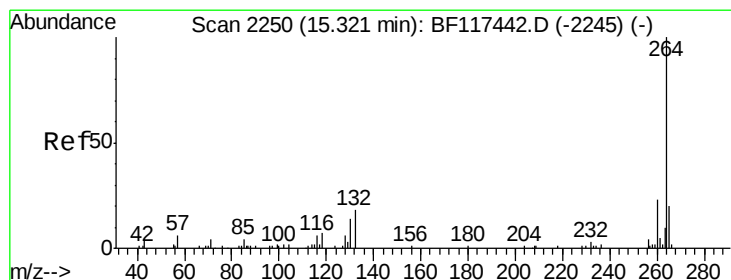
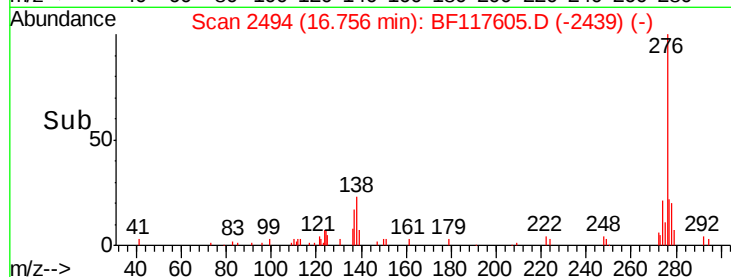
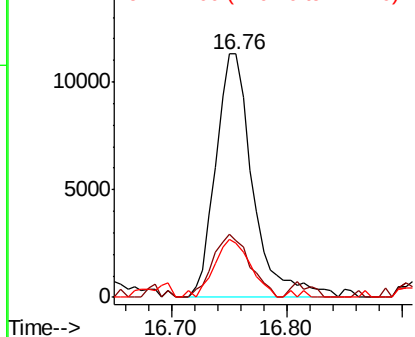
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 8.350 ng  
 RT: 16.76 min Scan# 2494  
 Delta R.T. 0.02 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 21.8  | 32.8  |
| 277     | 23.2  | 20.0  | 30.0  |

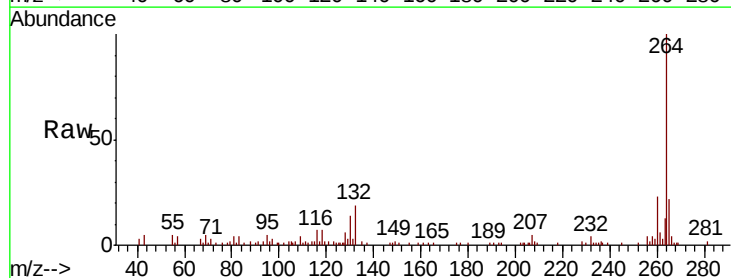


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

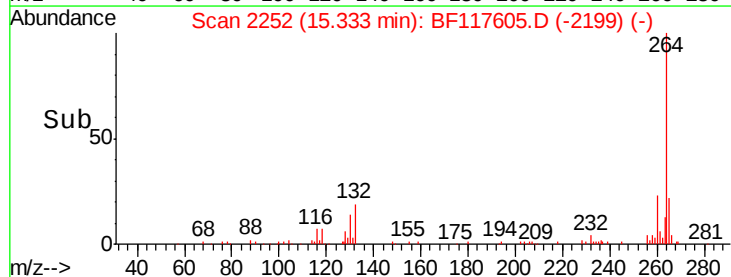
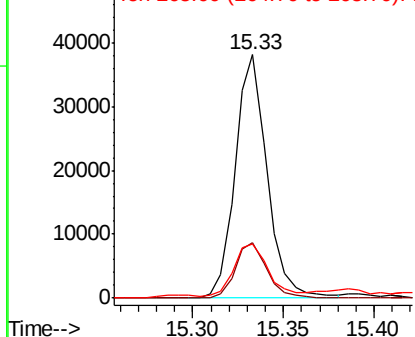


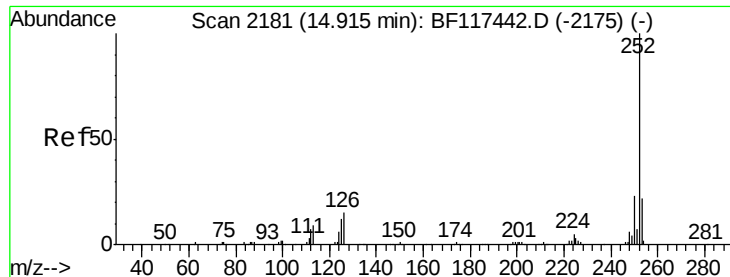
#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.33 min Scan# 2252  
 Delta R.T. 0.01 min  
 Lab File: BF117605.D  
 Acq: 29 Oct 2019 22:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 18.4  | 27.6  |
| 265     | 22.1  | 16.1  | 24.1  |



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





#88

Benzo(b)fluoranthene

Concen: 38.181 ng

RT: 14.92 min Scan# 2182

Delta R.T. 0.01 min

Lab File: BF117605.D

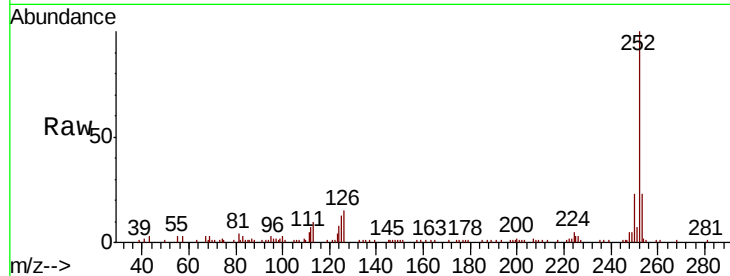
Acq: 29 Oct 2019 22:33

Instrument :

BNA\_F

ClientSampleId :

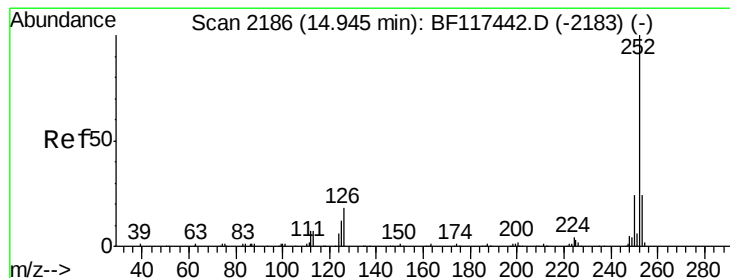
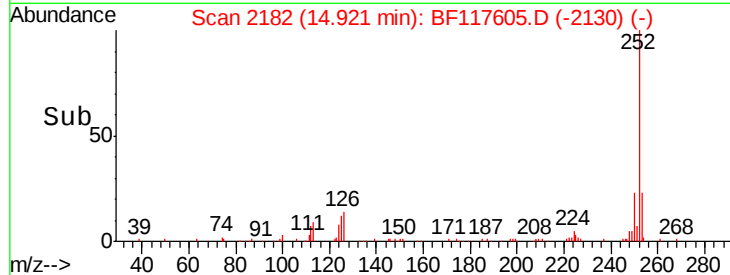
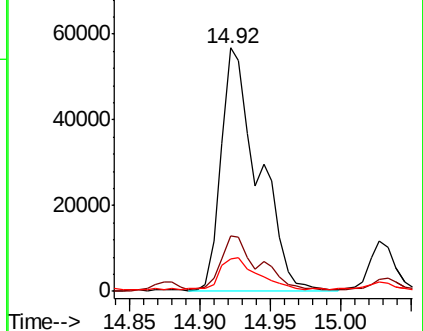
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 105486    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 22.7  | 17.8 26.6 |
| 125         | 13.4  | 9.9 14.9  |



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 37.252 ng

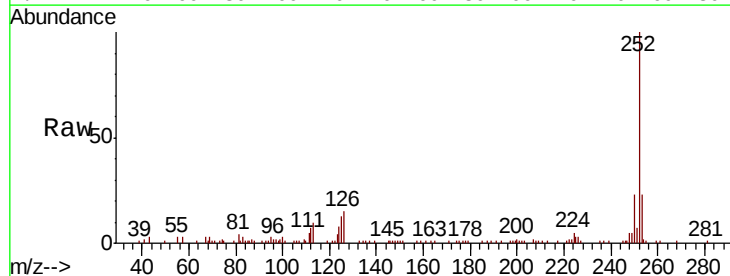
RT: 14.92 min Scan# 2182

Delta R.T. -0.02 min

Lab File: BF117605.D

Acq: 29 Oct 2019 22:33

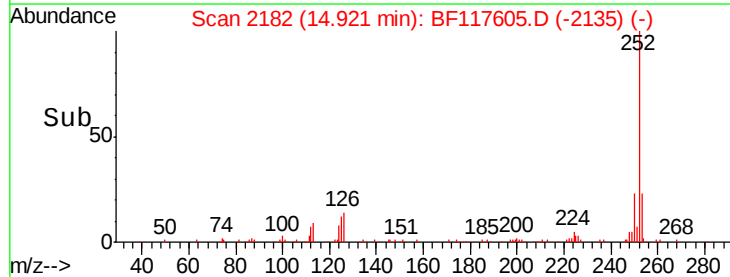
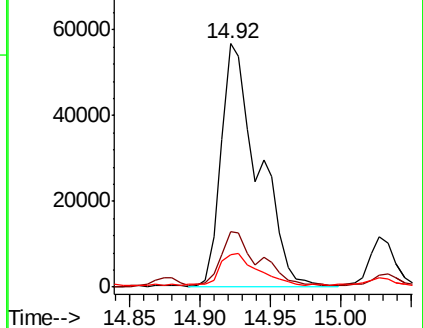
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 105486    |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 22.7  | 18.0 27.0 |
| 125         | 13.4  | 8.9 13.3# |

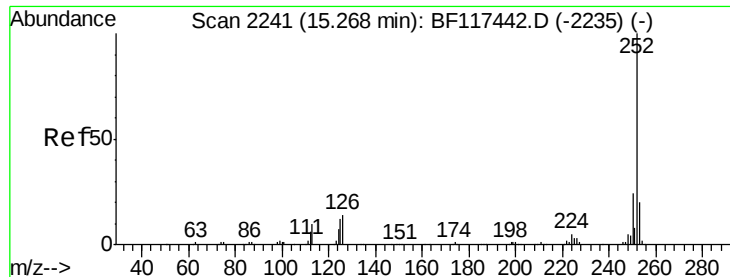


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

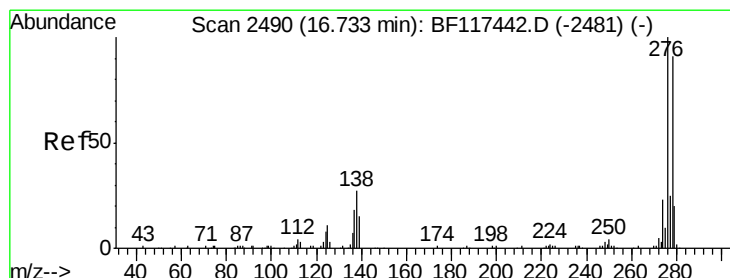
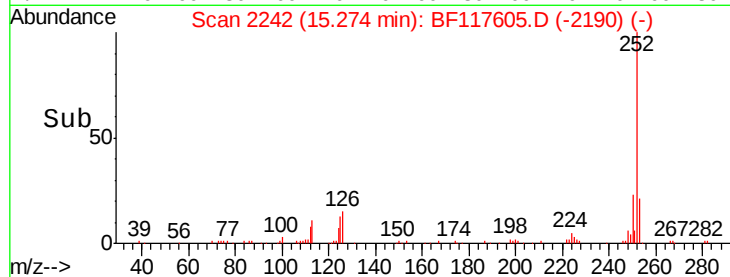
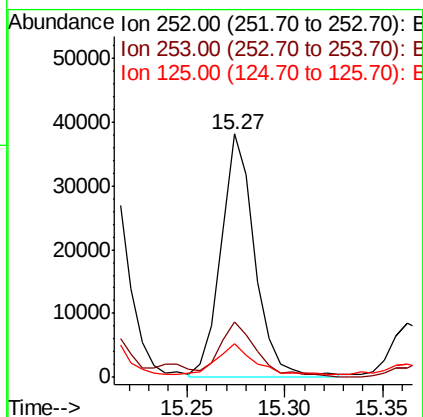
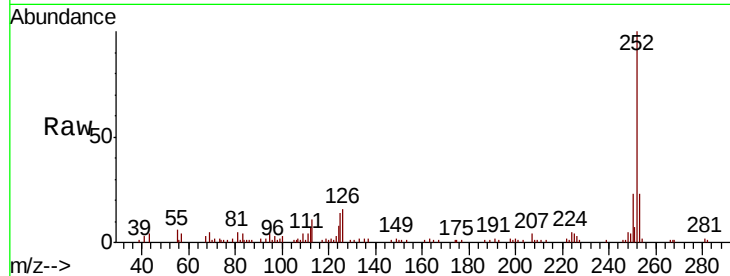




#90  
Benzo(a)pyrene  
Concen: 18.243 ng  
RT: 15.27 min Scan# 2242  
Delta R.T. 0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

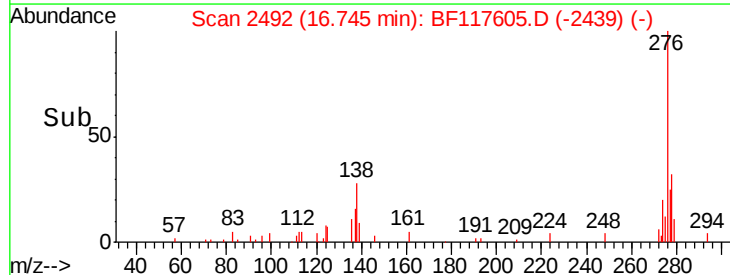
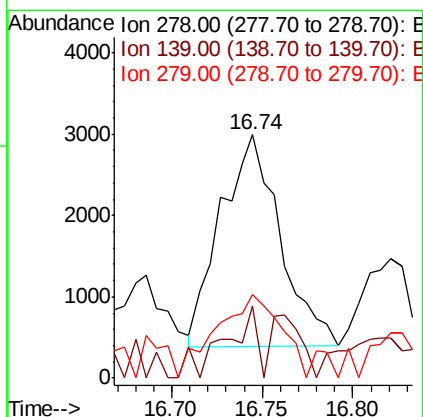
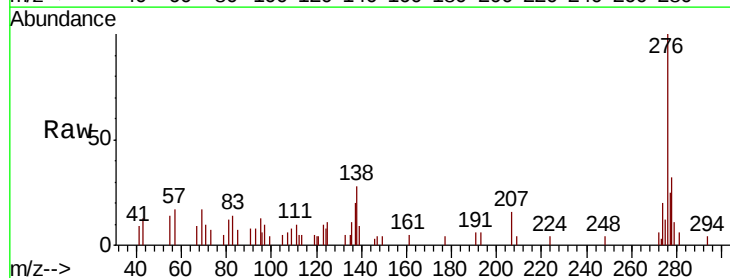
Instrument :  
BNA\_F  
ClientSampleId :

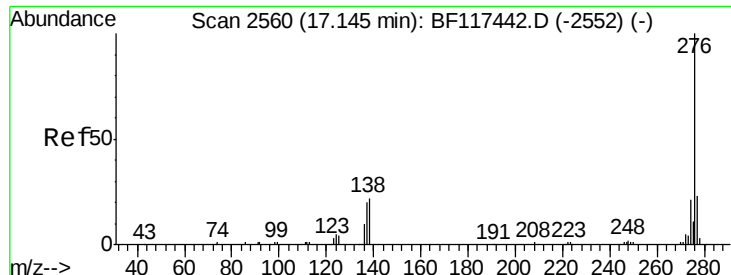
Tot Ion:252 Resp: 45825  
Ion Ratio Lower Upper  
252 100  
253 23.0 16.3 24.5  
125 13.7 9.2 13.8



#91  
Dibenzo(a,h)anthracene  
Concen: 2.733 ng  
RT: 16.74 min Scan# 2492  
Delta R.T. 0.01 min  
Lab File: BF117605.D  
Acq: 29 Oct 2019 22:33

Tgt Ion:278 Resp: 5936  
Ion Ratio Lower Upper  
278 100  
139 29.6 13.4 20.0#  
279 34.1 17.8 26.6#





#92

Benzo(a,h,i)perylene

Concen: 10.092 ng

RT: 17.18 min Scan# 2566

Delta R.T. 0.04 min

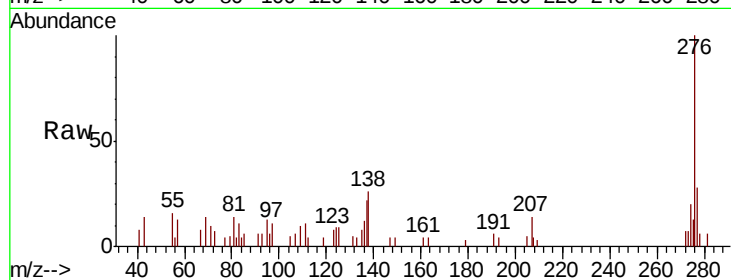
Lab File: BF117605.D

Acq: 29 Oct 2019 22:33

Instrument :

BNA\_F

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 276   | Resp: | 20741 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 28.0  | 18.4  | 27.6# |
| 138      | 25.7  | 17.8  | 26.6  |

