

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112119\  
 Data File : BF117901.D  
 Acq On : 21 Nov 2019 10:19  
 Operator : JU  
 Sample : K5904-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1-(2-4)

Quant Time: Nov 21 15:15:09 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 18:36:07 2019  
 Response via : Initial Calibration

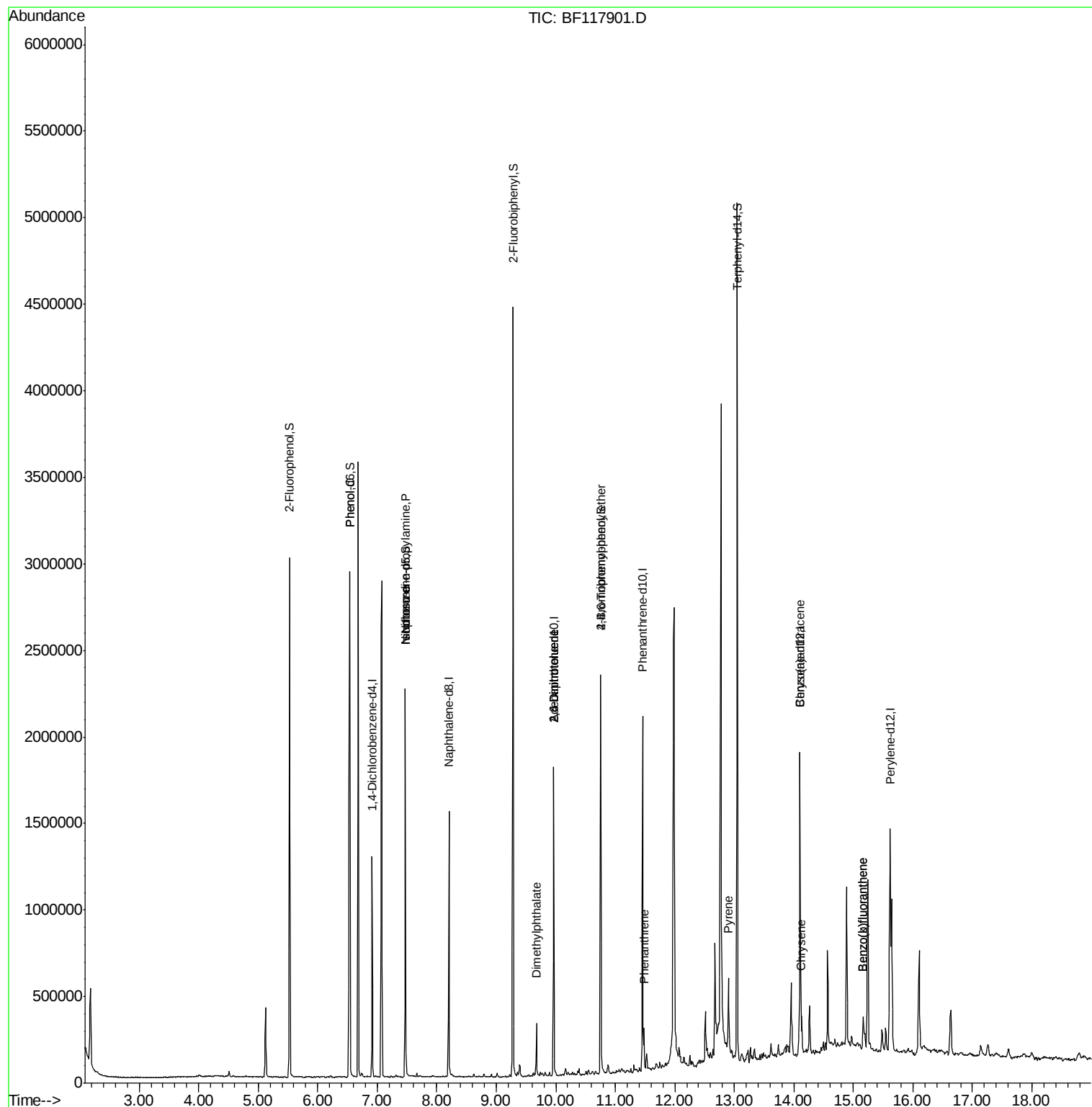
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-----------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.92  | 152  | 173145   | 20.00     | ng    | -0.01     |
| 21) Naphthalene-d8             | 8.20  | 136  | 677457   | 20.00     | ng    | -0.01     |
| 39) Acenaphthene-d10           | 9.96  | 164  | 356743   | 20.00     | ng    | -0.01     |
| 64) Phenanthrene-d10           | 11.46 | 188  | 711319   | 20.00     | ng    | -0.01     |
| 76) Chrysene-d12               | 14.11 | 240  | 574311   | 20.00     | ng    | 0.00      |
| 87) Perylene-d12               | 15.62 | 264  | 590376   | 20.00     | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |           |       |           |
| 5) 2-Fluorophenol              | 5.53  | 112  | 790069   | 80.77     | ng    | 0.00      |
| 7) Phenol-d6                   | 6.54  | 99   | 1083530  | 91.84     | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.47  | 82   | 668098   | 58.62     | ng    | -0.02     |
| 42) 2,4,6-Tribromophenol       | 10.76 | 330  | 272663   | 72.19     | ng    | -0.01     |
| 45) 2-Fluorobiphenyl           | 9.28  | 172  | 1319525  | 66.36     | ng    | -0.01     |
| 79) Terphenyl-d14              | 13.05 | 244  | 1637053  | 52.10     | ng    | 0.00      |
| Target Compounds               |       |      |          |           |       |           |
| 9) Benzaldehyde                | 6.46  | 77   | 858      | Below Cal |       | Qvalue 83 |
| 10) Phenol                     | 6.55  | 94   | 40576    | 3.310 ng  |       | 85        |
| 19) n-Nitroso-di-n-propylamine | 7.47  | 70   | 90528    | 12.438 ng | #     | 76        |
| 25) Isophorone                 | 7.47  | 82   | 660366   | 31.615 ng | #     | 62        |
| 50) Dimethylphthalate          | 9.67  | 163  | 130283   | 5.208 ng  |       | 97        |
| 51) 2,6-Dinitrotoluene         | 9.96  | 165  | 47303    | 8.652 ng  | #     | 23        |
| 57) 2,4-Dinitrotoluene         | 9.96  | 165  | 47304    | 6.802 ng  | #     | 25        |
| 67) 4-Bromophenyl-phenylether  | 10.76 | 248  | 17298    | 2.254 ng  | #     | 1         |
| 71) Phenanthrene               | 11.48 | 178  | 78377    | 2.192 ng  |       | 97        |
| 75) Fluoranthene               | 12.67 | 202  | 175197   | Below Cal |       | 98        |
| 78) Pyrene                     | 12.90 | 202  | 162405   | 3.499 ng  |       | 97        |
| 81) Benzo(a)anthracene         | 14.10 | 228  | 85194    | 2.245 ng  |       | 98        |
| 83) Chrysene                   | 14.13 | 228  | 91325    | 2.483 ng  |       | 96        |
| 88) Benzo(b)fluoranthene       | 15.16 | 252  | 145397   | 3.791 ng  |       | 97        |
| 89) Benzo(k)fluoranthene       | 15.16 | 252  | 145397   | 4.023 ng  | #     | 97        |

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

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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
1-(2-4)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 13 18:36:07 2019  
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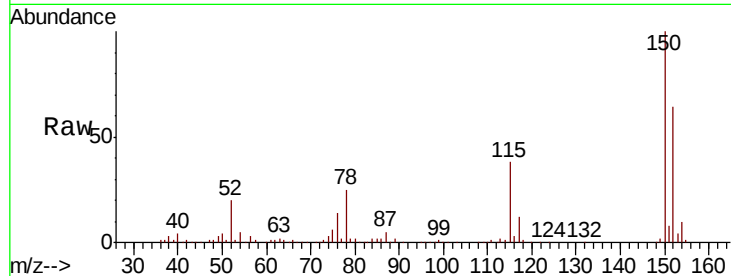


#1

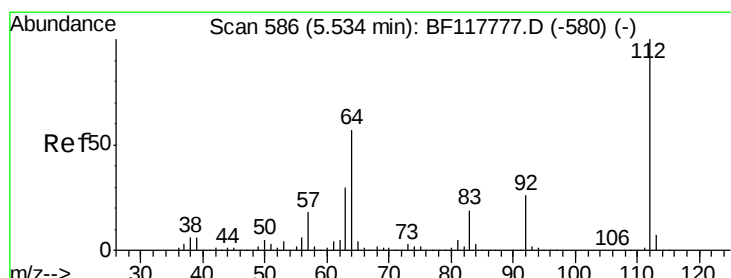
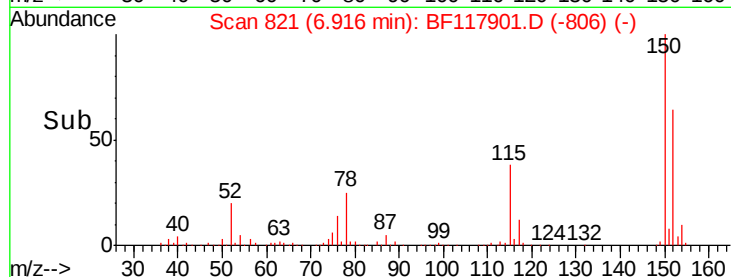
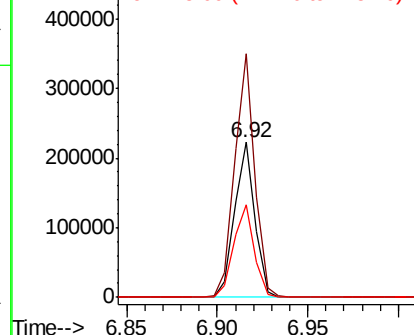
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.92 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
1-(2-4)

Tot Ion:152 Resp: 173145  
Ion Ratio Lower Upper  
152 100  
150 157.2 125.3 187.9  
115 59.4 47.0 70.4



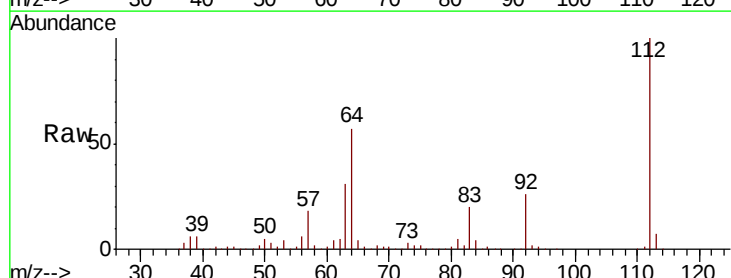
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



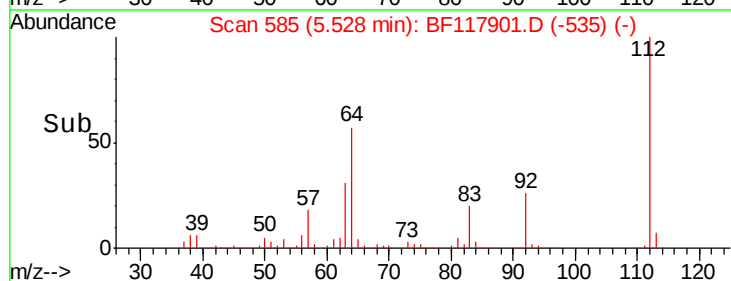
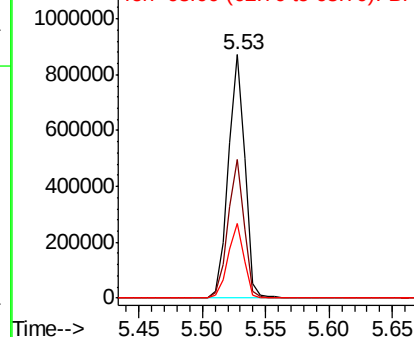
#5

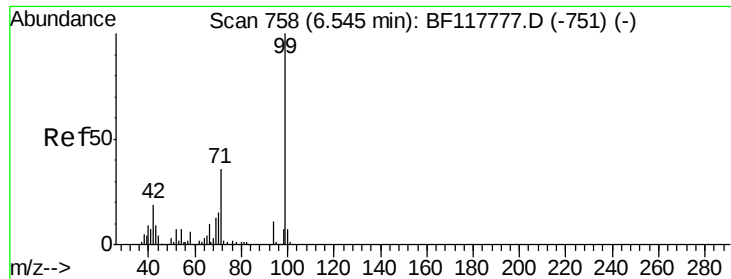
2-Fluorophenol  
Concen: 80.771 ng  
RT: 5.53 min Scan# 585  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Tgt Ion:112 Resp: 790069  
Ion Ratio Lower Upper  
112 100  
64 56.9 45.6 68.4  
63 30.9 24.1 36.1



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: 91.838 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF117901.D

Acq: 21 Nov 2019 10:19

Instrument :

BNA\_F

ClientSampled :

1-(2-4)

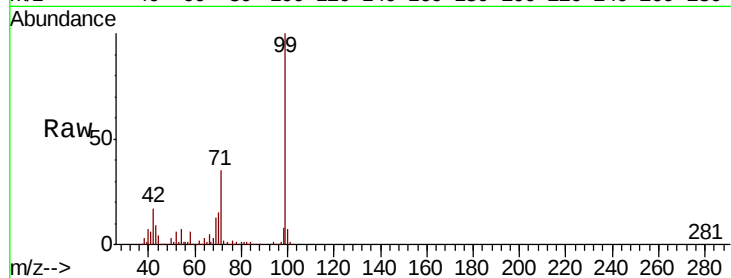
Tot Ion: 99 Resp: 1083530

Ion Ratio Lower Upper

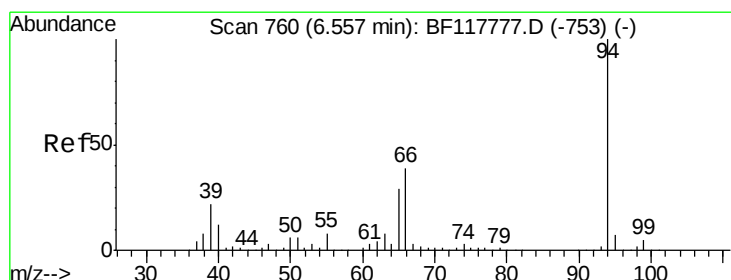
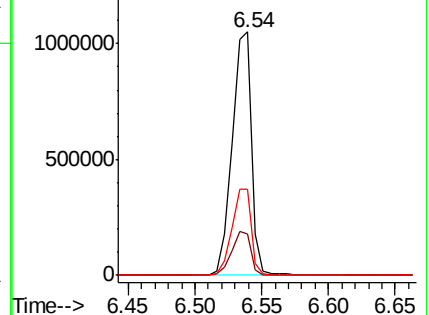
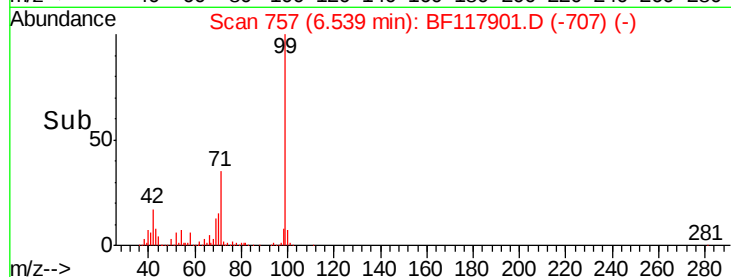
99 100

42 17.0 14.9 22.3

71 35.4 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: 3.310 ng

RT: 6.55 min Scan# 758

Delta R.T. -0.01 min

Lab File: BF117901.D

Acq: 21 Nov 2019 10:19

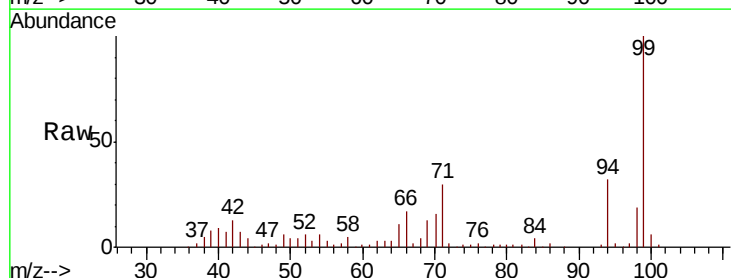
Tgt Ion: 94 Resp: 40576

Ion Ratio Lower Upper

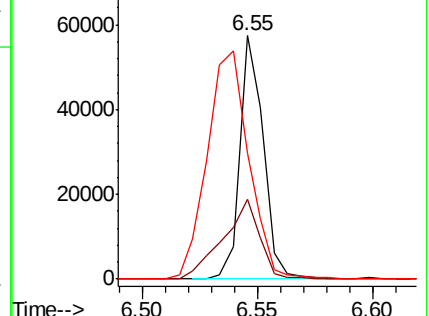
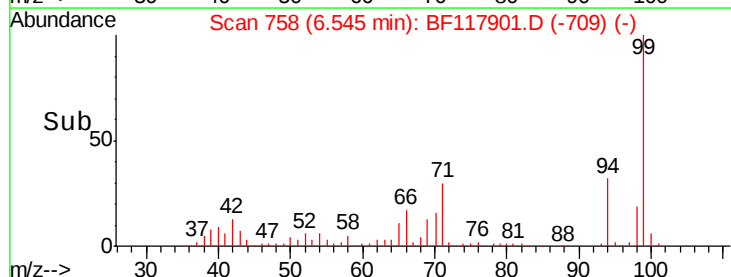
94 100

65 32.6 8.9 48.9

66 51.8 18.7 58.7



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

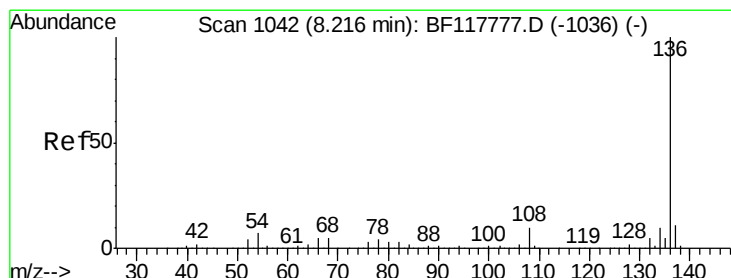
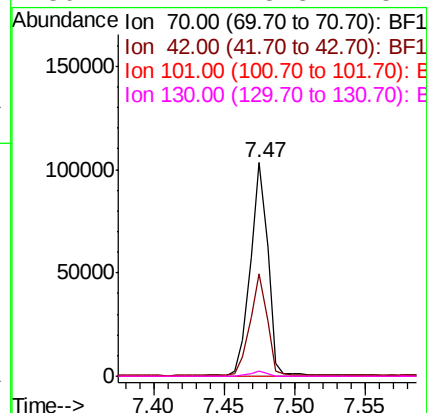
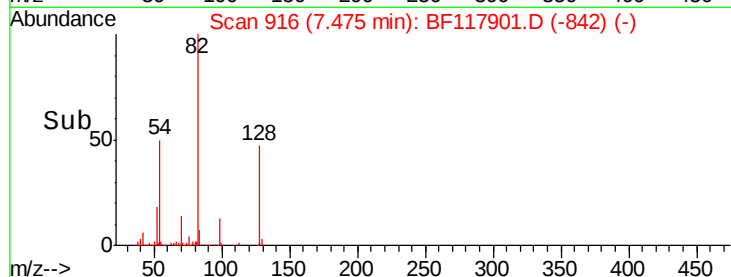
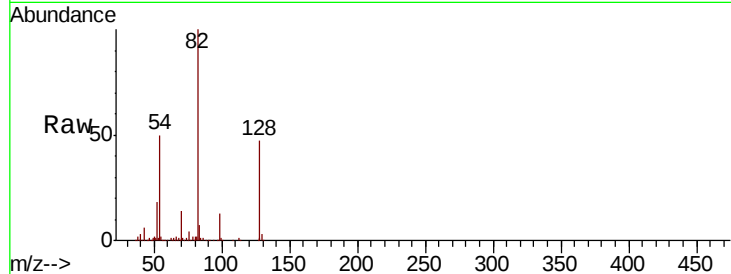




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.438 ng  
RT: 7.47 min Scan# 916  
Delta R.T. 0.14 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

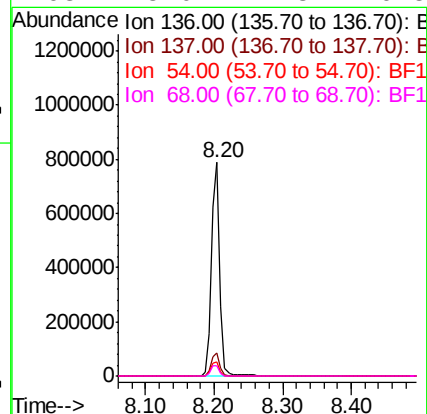
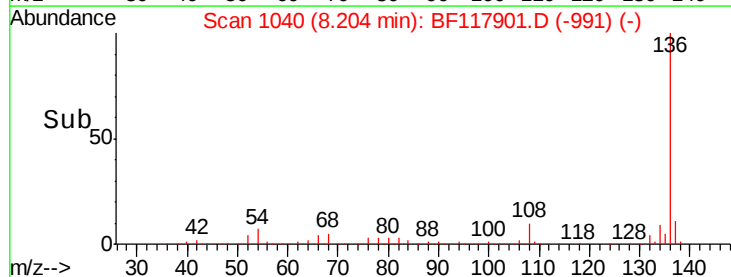
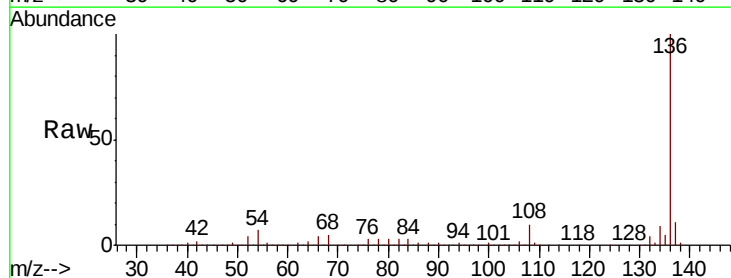
Instrument :  
BNA\_F  
ClientSampleId :  
1-(2-4)

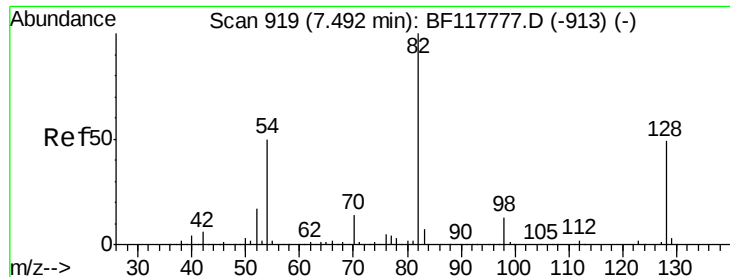
Tot Ion: 70 Resp: 90528  
Ion Ratio Lower Upper  
70 100  
42 47.7 47.4 71.2  
101 0.0 8.4 12.6#  
130 2.4 18.8 28.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Tgt Ion: 136 Resp: 677457  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.0 13.4  
54 6.6 5.4 8.2  
68 5.0 4.3 6.5

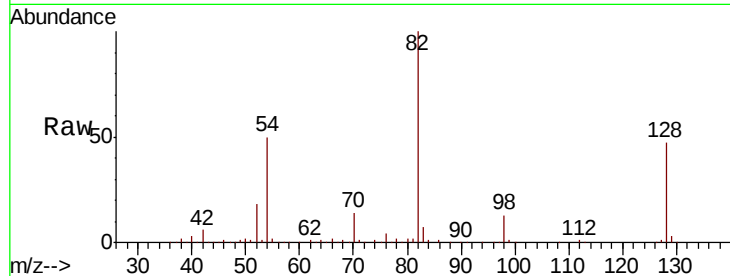




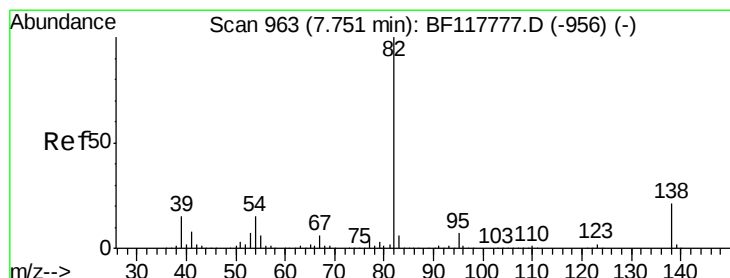
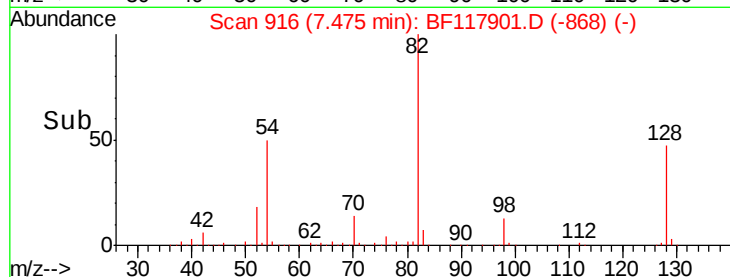
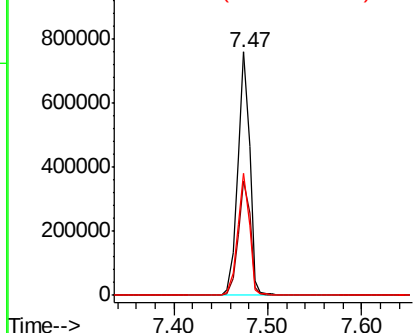
#23  
Nitrobenzene-d5  
Concen: 58.625 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.02 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
1-(2-4)

| Tot Ion   | 82    | Resp  | 668098 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.1  | 38.9  | 58.3   |
| 54        | 49.9  | 39.8  | 59.6   |

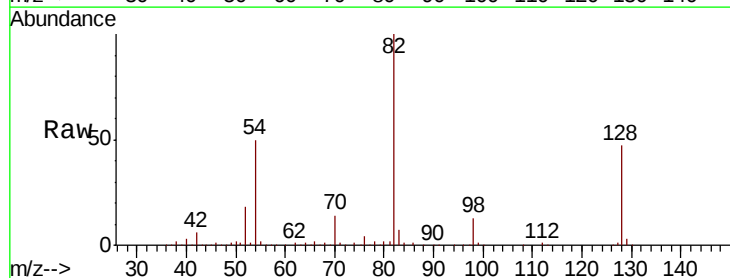


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

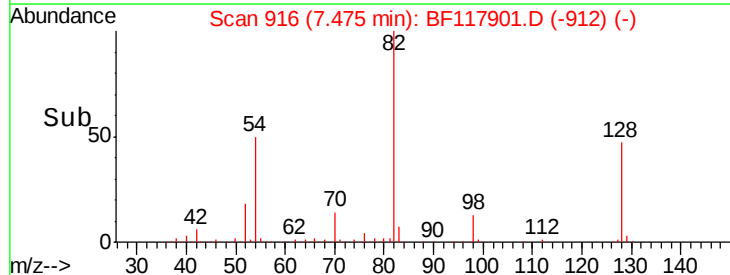
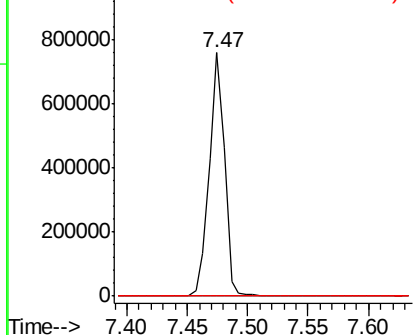


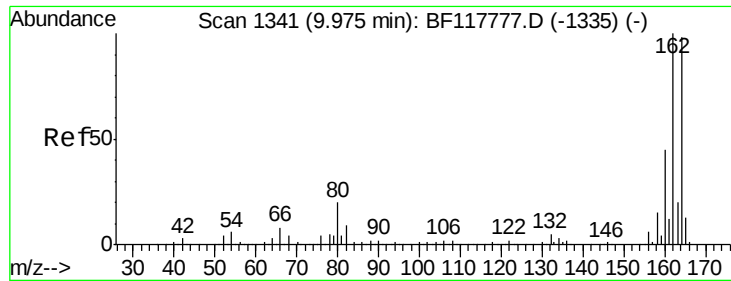
#25  
Isophorone  
Concen: 31.615 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.28 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

| Tgt Ion   | 82    | Resp  | 660366 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.8   | 8.8#   |
| 138       | 0.0   | 16.5  | 24.7#  |



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

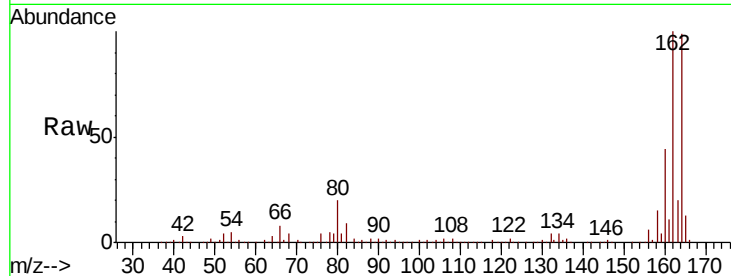




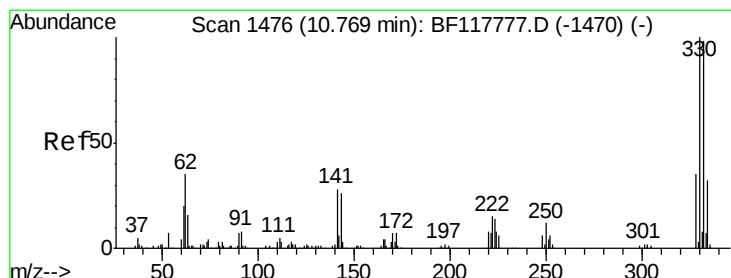
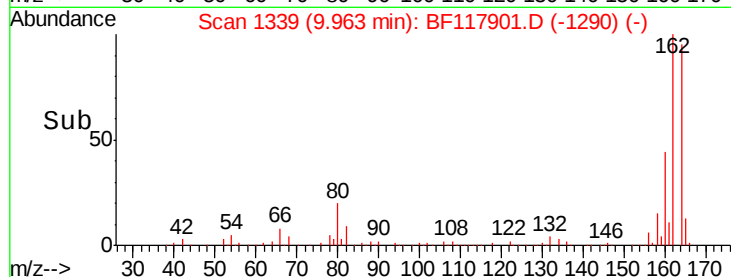
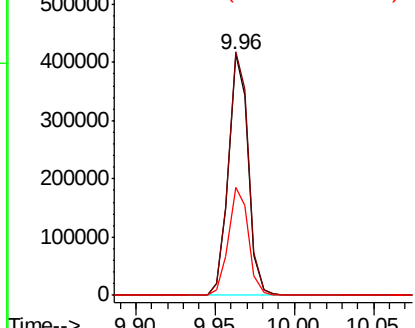
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.96 min Scan# 1339  
 Delta R.T. -0.01 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1-(2-4)

Tot Ion:164 Resp: 356743  
 Ion Ratio Lower Upper  
 164 100  
 162 101.2 81.3 121.9  
 160 44.9 36.6 55.0

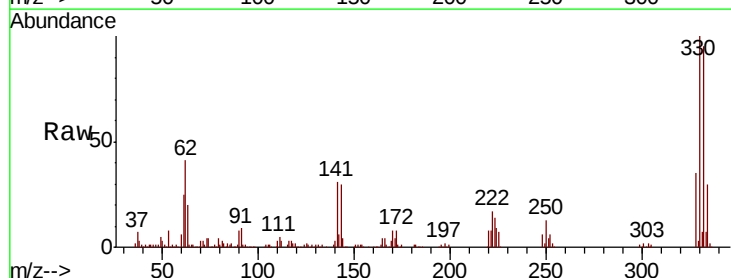


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

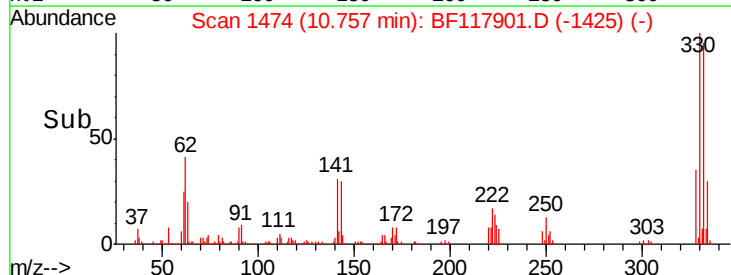
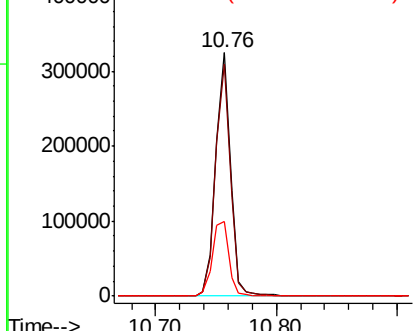


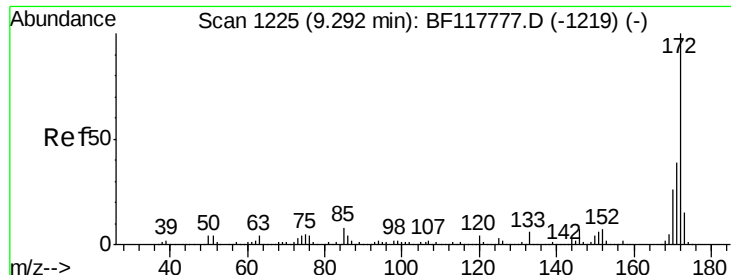
#42  
 2,4,6-Tribromophenol  
 Concen: 72.194 ng  
 RT: 10.76 min Scan# 1474  
 Delta R.T. -0.01 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

Tgt Ion:330 Resp: 272663  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 76.7 115.1  
 141 34.3 27.7 41.5



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

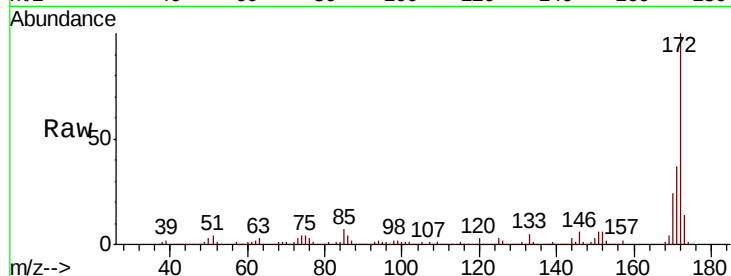




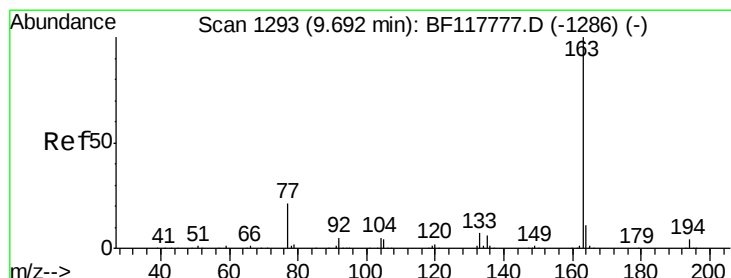
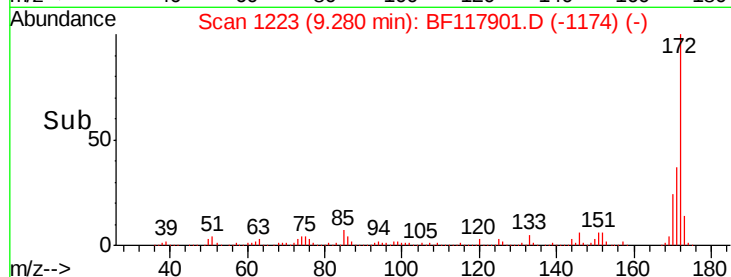
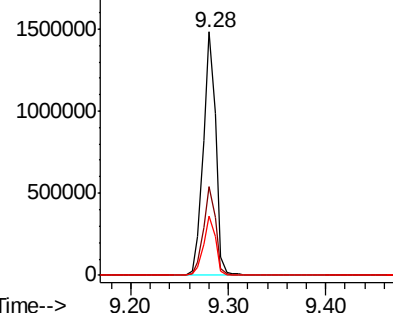
#45  
2-Fluorobiphenyl  
Concen: 66.358 ng  
RT: 9.28 min Scan# 1223  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
1-(2-4)

Tot Ion:172 Resp: 1319525  
Ion Ratio Lower Upper  
172 100  
171 36.5 30.9 46.3  
170 24.2 21.0 31.4

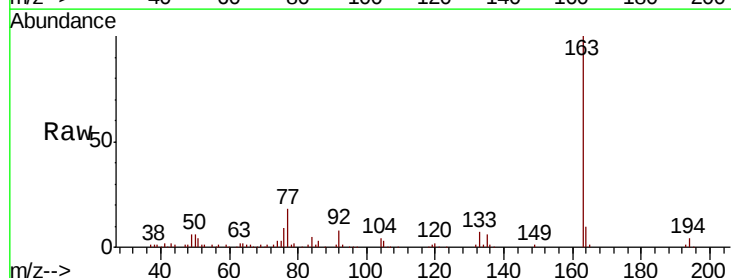


Abundance Ion 172.00 (171.70 to 172.70): E  
2000000 Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

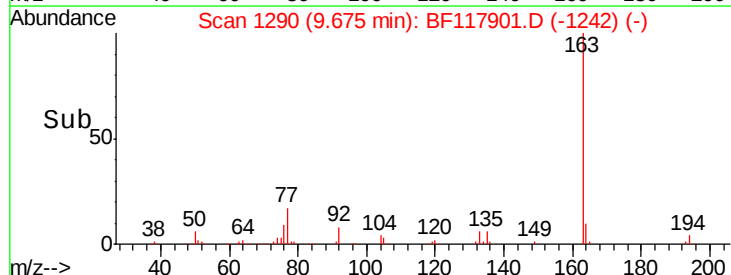
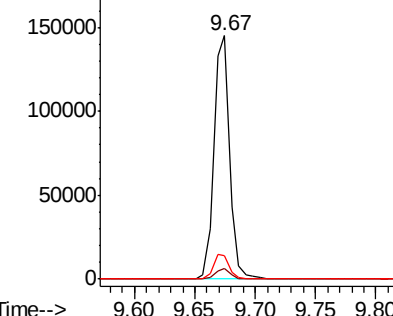


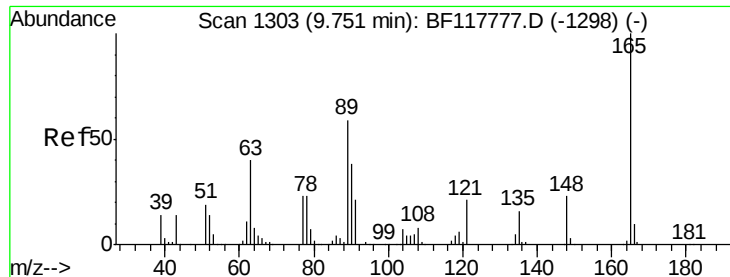
#50  
Dimethylphthalate  
Concen: 5.208 ng  
RT: 9.67 min Scan# 1290  
Delta R.T. -0.02 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Tgt Ion:163 Resp: 130283  
Ion Ratio Lower Upper  
163 100  
194 4.4 3.3 4.9  
164 9.5 8.7 13.1



Abundance Ion 163.00 (162.70 to 163.70): E  
200000 Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

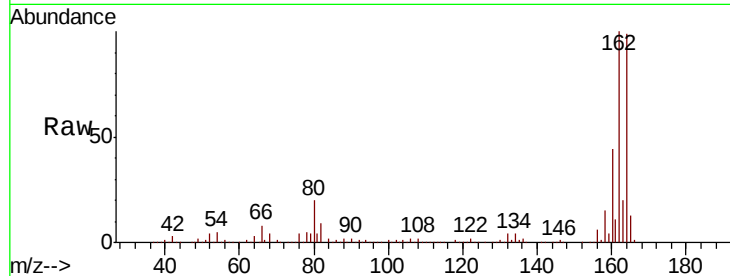




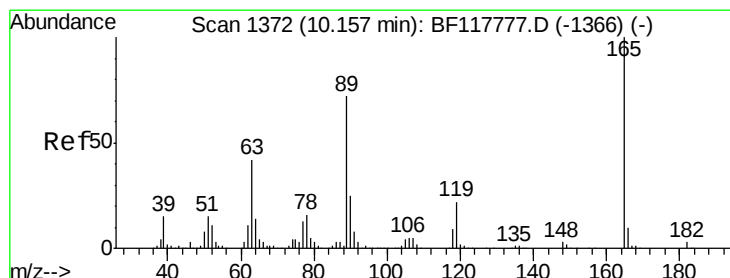
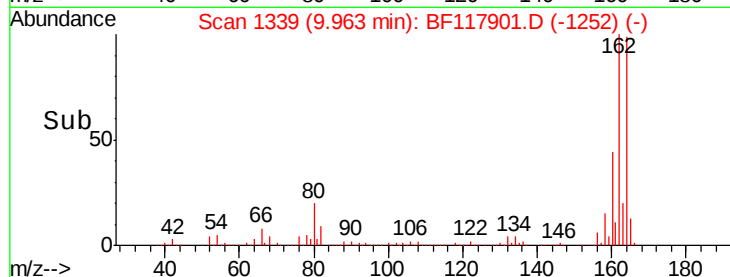
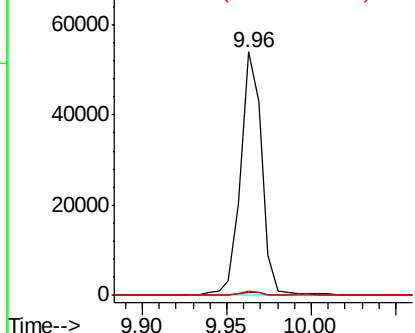
#51  
 2,6-Dinitrotoluene  
 Concen: 8.652 ng  
 RT: 9.96 min Scan# 1339  
 Delta R.T. 0.21 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1-(2-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 46.0  | 69.0# |
| 89      | 1.6   | 47.7  | 71.5# |



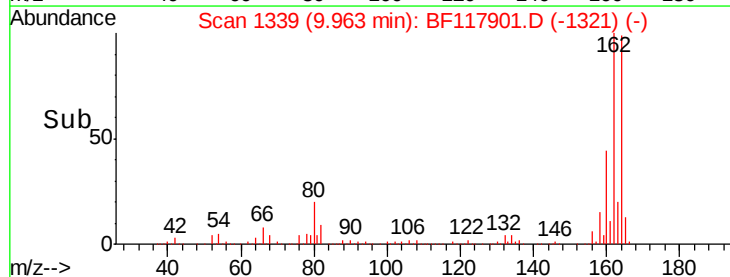
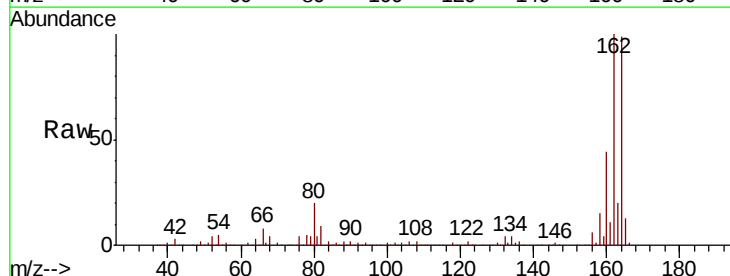
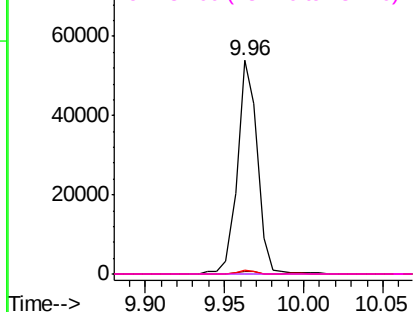
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

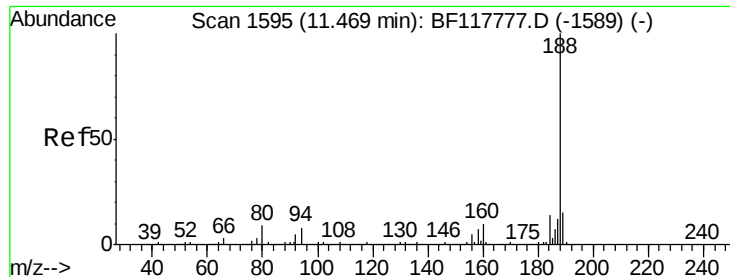


#57  
 2,4-Dinitrotoluene  
 Concen: 6.802 ng  
 RT: 9.96 min Scan# 1339  
 Delta R.T. -0.19 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 33.7  | 50.5# |
| 89      | 1.6   | 57.3  | 85.9# |
| 182     | 0.0   | 2.3   | 3.5#  |

Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

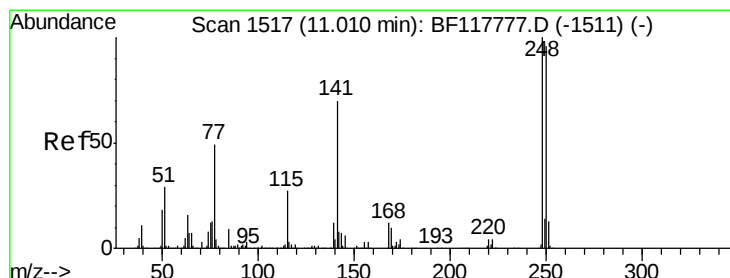
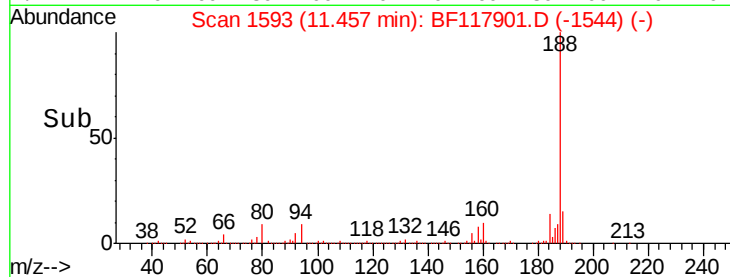
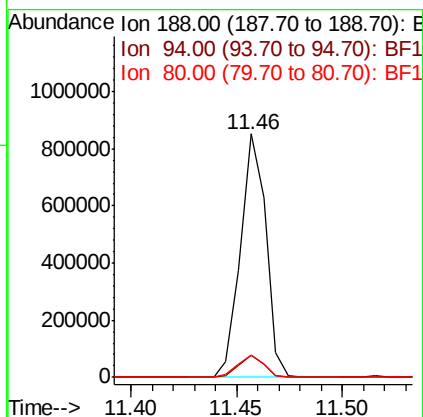
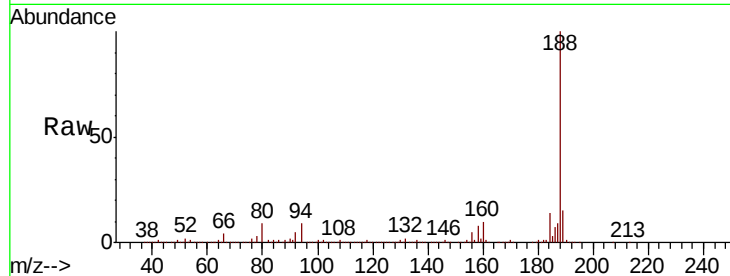




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.46 min Scan# 1593  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

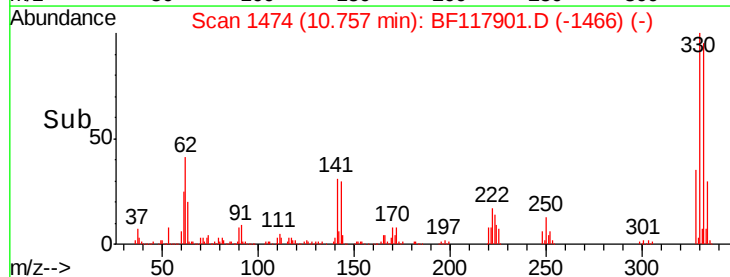
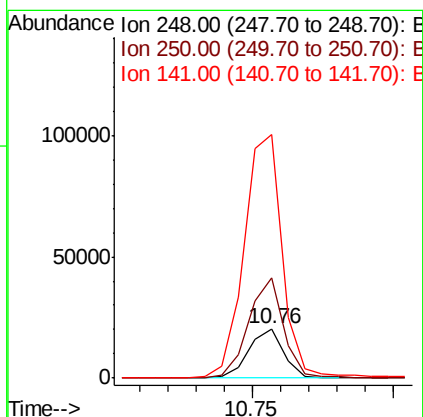
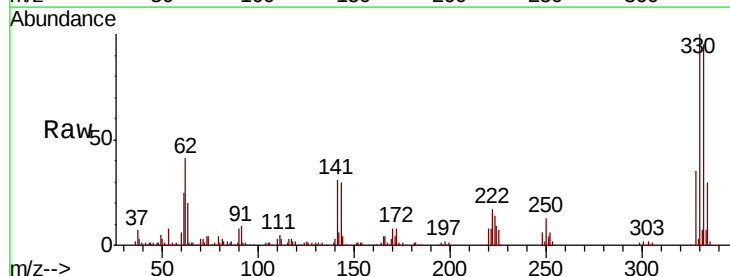
Instrument :  
BNA\_F  
ClientSampleId :  
1-(2-4)

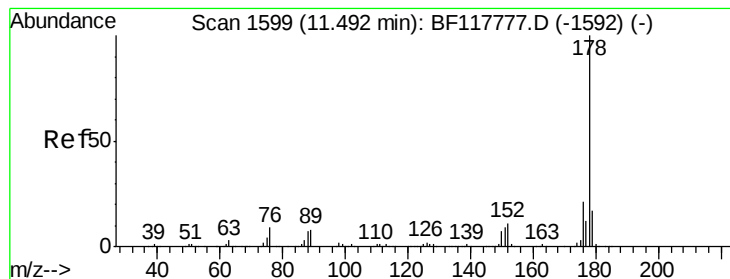
Tot Ion:188 Resp: 711319  
Ion Ratio Lower Upper  
188 100  
94 9.0 6.6 10.0  
80 9.3 7.2 10.8



#67  
4-Bromophenyl-phenylether  
Concen: 2.254 ng  
RT: 10.76 min Scan# 1474  
Delta R.T. -0.25 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Tgt Ion:248 Resp: 17298  
Ion Ratio Lower Upper  
248 100  
250 204.5 76.6 115.0#  
141 494.1 55.9 83.9#





#71

Phenanthrene

Concen: 2.192 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF117901.D

Acq: 21 Nov 2019 10:19

Instrument :

BNA\_F

ClientSampled :

1-(2-4)

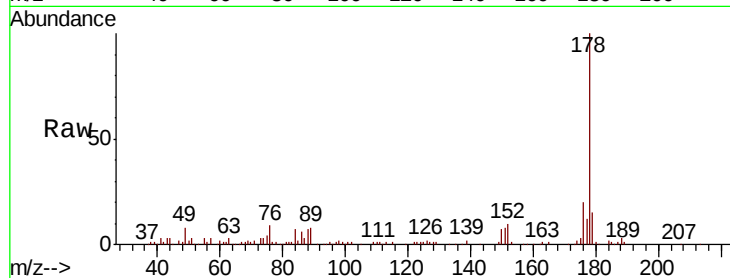
Tot Ion:178 Resp: 78377

Ion Ratio Lower Upper

178 100

176 20.0 16.6 25.0

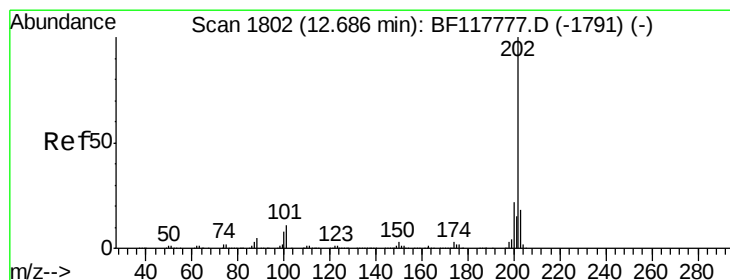
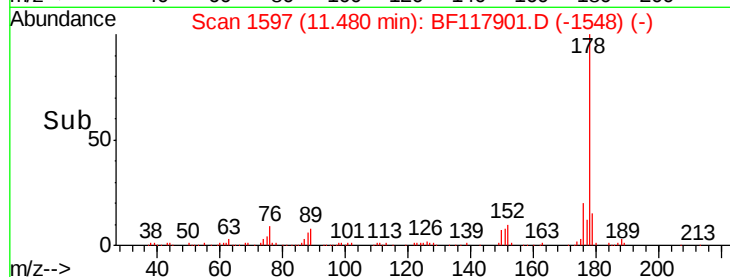
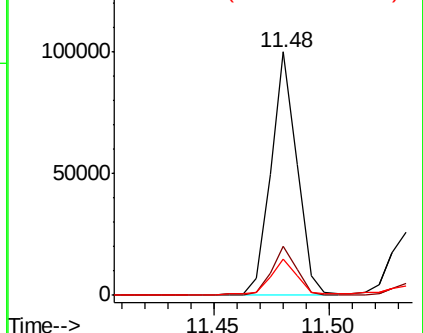
179 14.7 13.2 19.8



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: Below Cal

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF117901.D

Acq: 21 Nov 2019 10:19

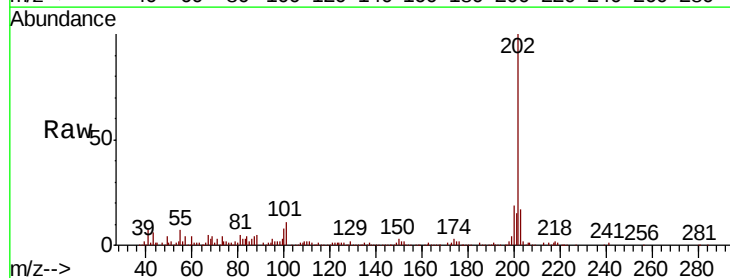
Tgt Ion:202 Resp: 175197

Ion Ratio Lower Upper

202 100

101 10.8 0.0 31.1

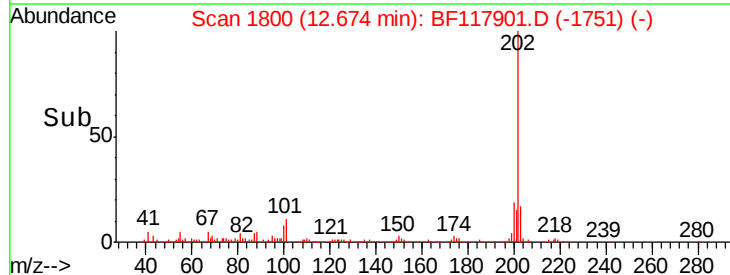
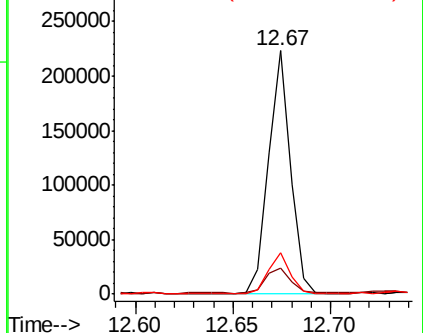
203 17.2 0.0 38.2

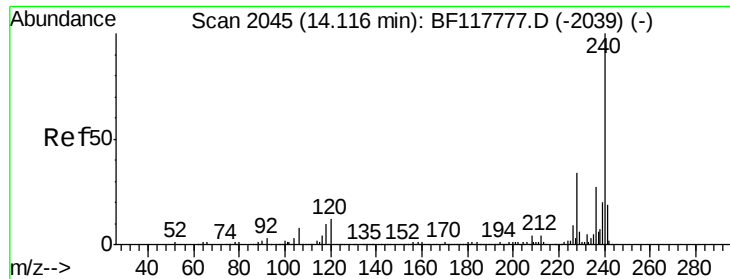


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

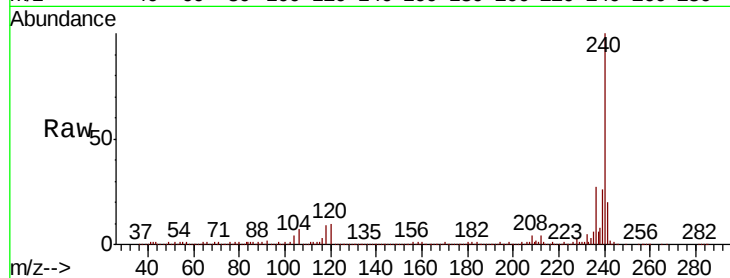




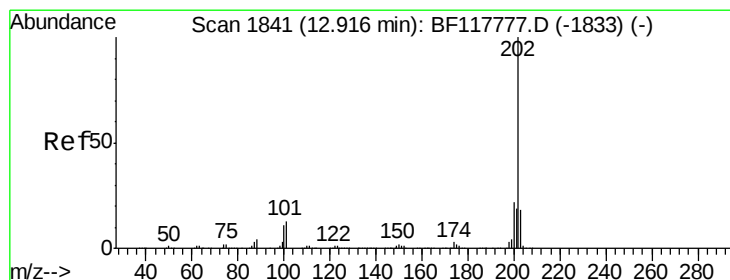
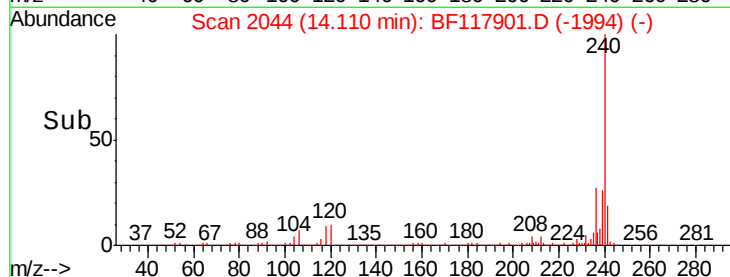
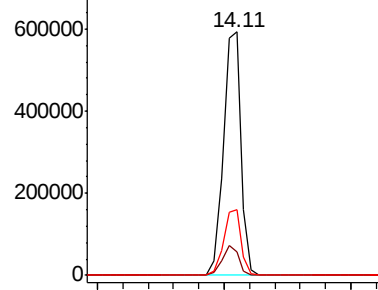
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.11 min Scan# 2044  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
1-(2-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.7   | 9.5   | 14.3  |
| 236     | 26.8  | 21.3  | 31.9  |

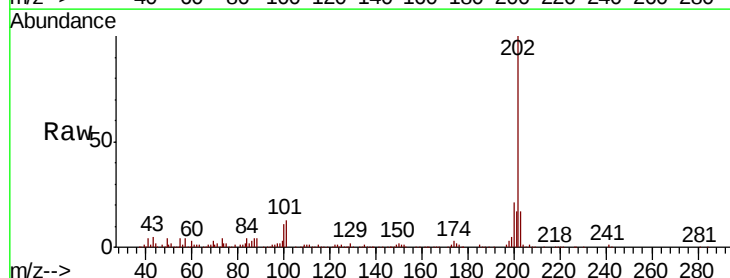


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

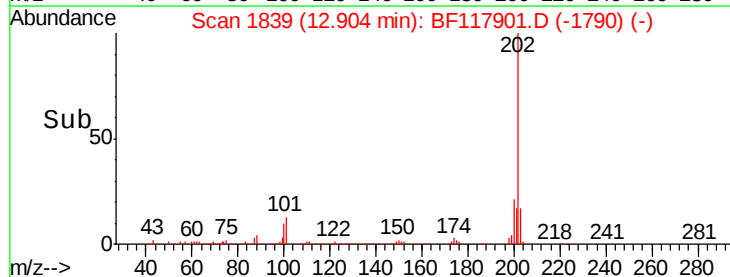
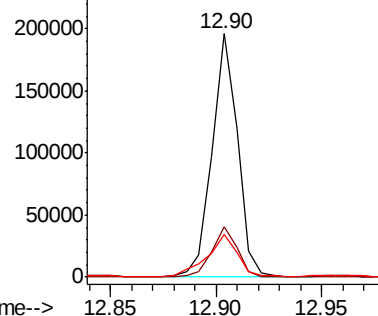


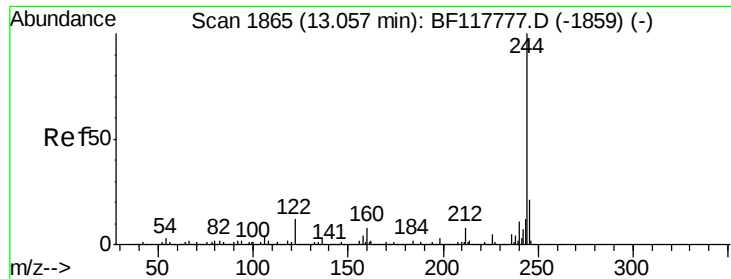
#78  
Pyrene  
Concen: 3.499 ng  
RT: 12.90 min Scan# 1839  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.8  | 26.8  |
| 203     | 17.4  | 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



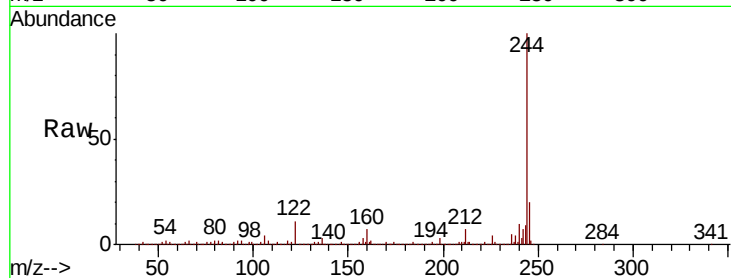


#79  
 Terphenyl-d14  
 Concen: 52.095 ng  
 RT: 13.05 min Scan# 1864  
 Delta R.T. -0.01 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

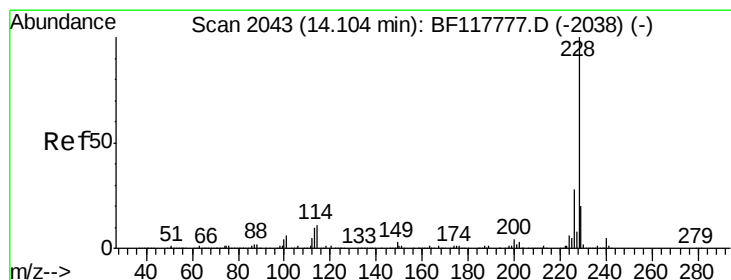
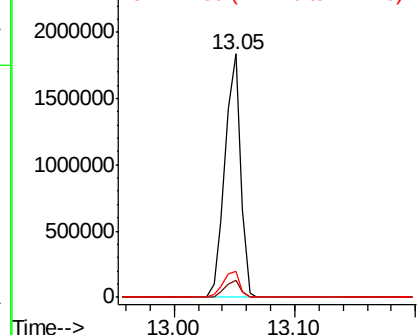
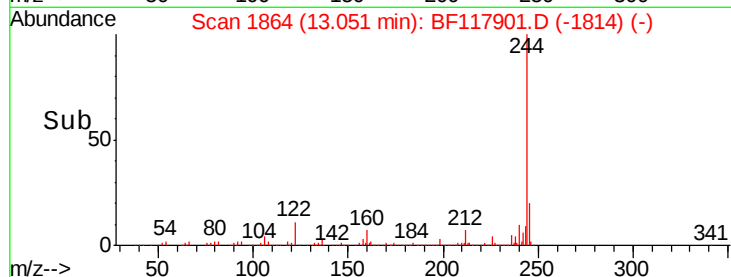
Instrument :  
 BNA\_F  
 ClientSampled :  
 1-(2-4)

Tot Ion:244 Resp: 1637053  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.1   | 6.3   | 9.5   |
| 122 | 10.7  | 9.4   | 14.2  |



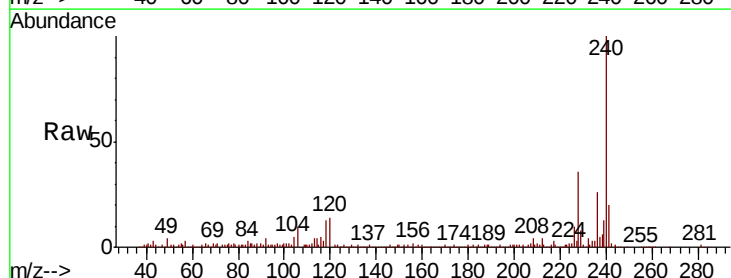
Abundance Ion 244.00 (243.70 to 244.70): E  
 2500000 Ion 212.00 (211.70 to 212.70): E  
 2000000 Ion 122.00 (121.70 to 122.70): E



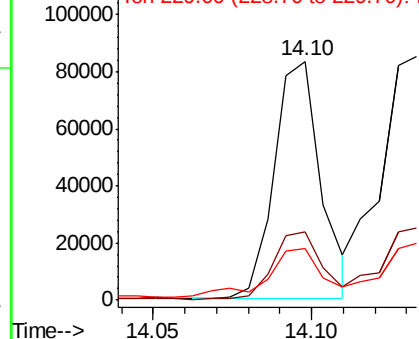
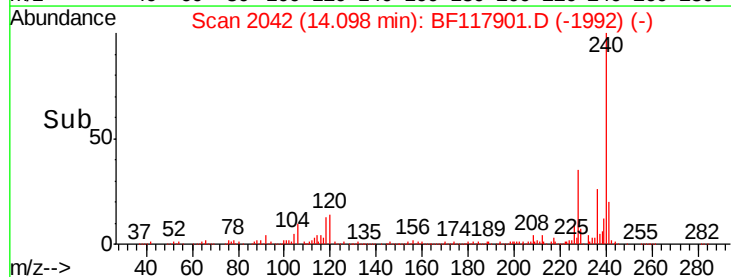
#81  
 Benzo(a)anthracene  
 Concen: 2.245 ng  
 RT: 14.10 min Scan# 2042  
 Delta R.T. -0.01 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

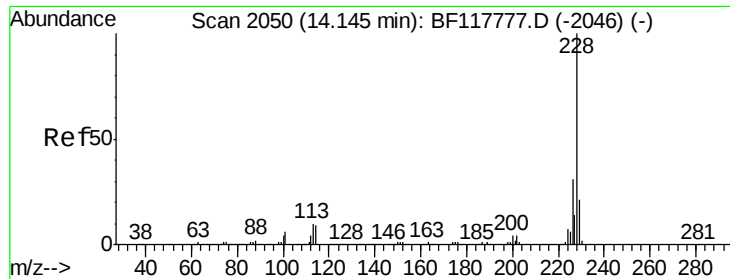
Tgt Ion:228 Resp: 85194  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.5  | 22.2  | 33.2  |
| 229 | 21.4  | 15.9  | 23.9  |



Abundance Ion 228.00 (227.70 to 228.70): E  
 100000 Ion 226.00 (225.70 to 226.70): E  
 80000 Ion 229.00 (228.70 to 229.70): E

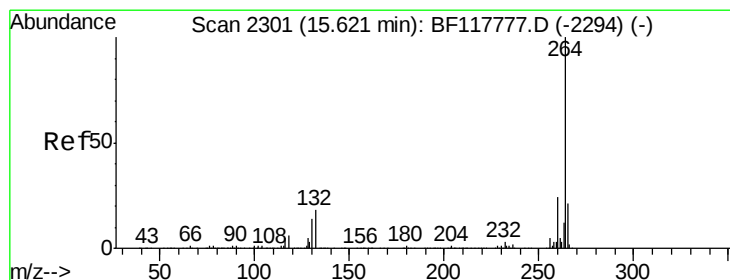
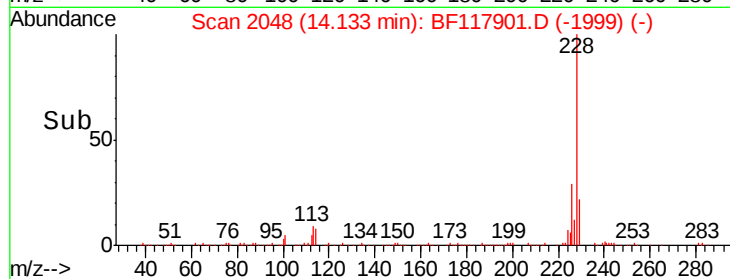
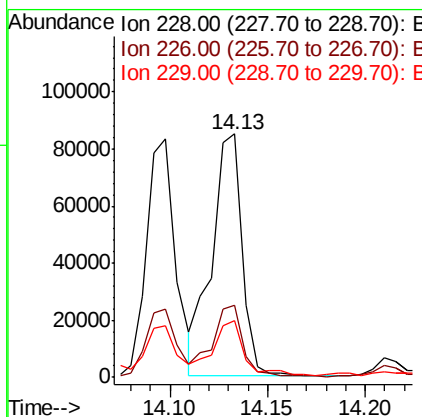
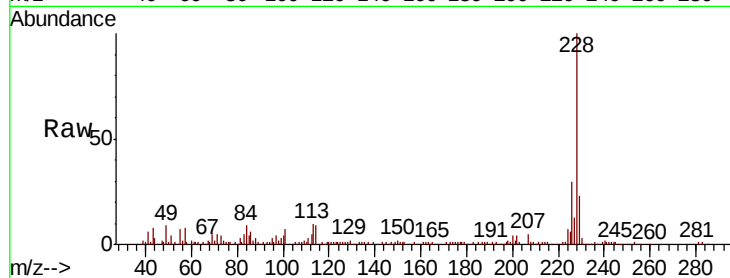




#83  
 Chrysene  
 Concen: 2.483 ng  
 RT: 14.13 min Scan# 2048  
 Delta R.T. -0.01 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

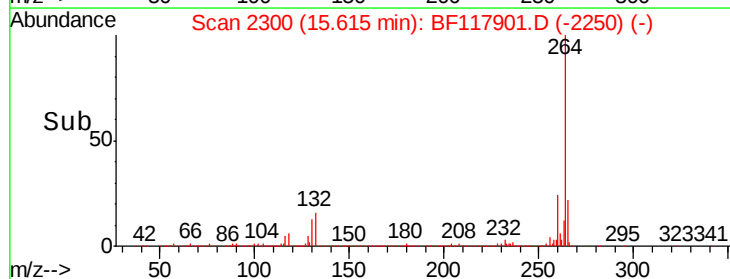
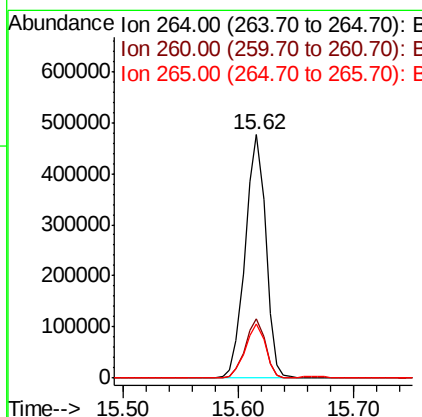
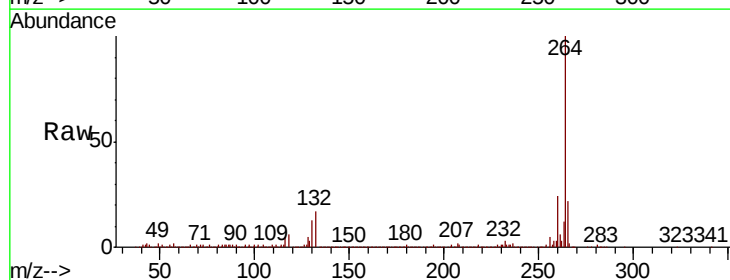
Instrument :  
 BNA\_F  
 ClientSampleId :  
 1-(2-4)

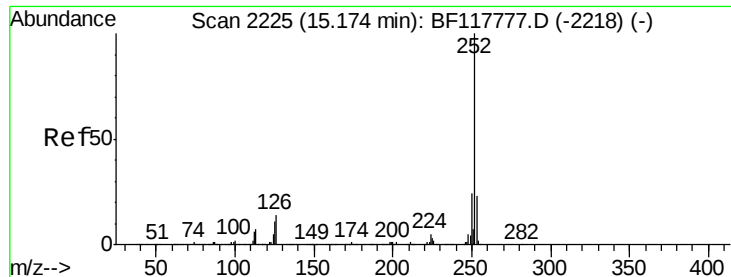
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:228 | Resp: | 91325       |
| Ion         | Ratio | Lower Upper |
| 228         | 100   |             |
| 226         | 29.6  | 25.0 37.4   |
| 229         | 23.2  | 16.6 25.0   |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.62 min Scan# 2300  
 Delta R.T. -0.01 min  
 Lab File: BF117901.D  
 Acq: 21 Nov 2019 10:19

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:264 | Resp: | 590376      |
| Ion         | Ratio | Lower Upper |
| 264         | 100   |             |
| 260         | 24.1  | 19.4 29.0   |
| 265         | 22.1  | 17.1 25.7   |

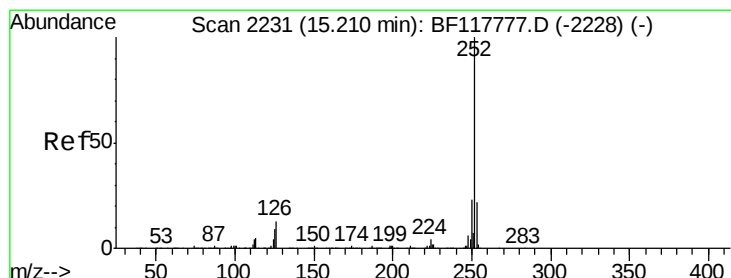
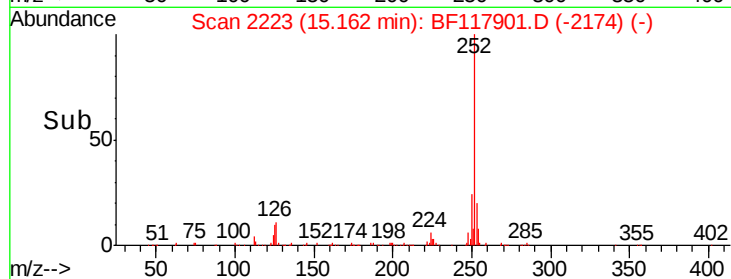
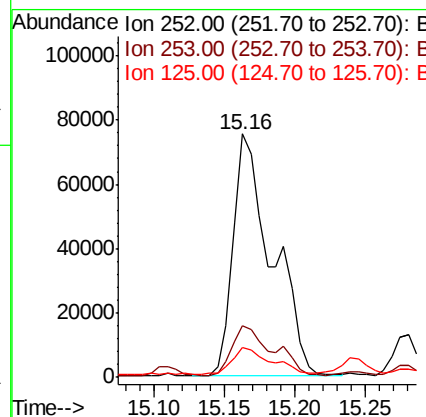
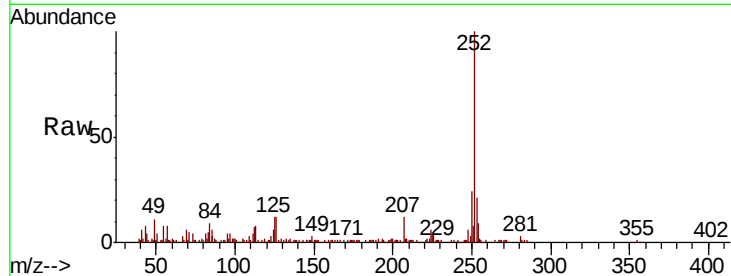




#88  
Benzo(b)fluoranthene  
Concen: 3.791 ng  
RT: 15.16 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

Instrument :  
BNA\_F  
ClientSampleId :  
1-(2-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.0  | 18.0  | 27.0  |
| 125     | 12.2  | 8.6   | 13.0  |



#89  
Benzo(k)fluoranthene  
Concen: 4.023 ng  
RT: 15.16 min Scan# 2223  
Delta R.T. -0.05 min  
Lab File: BF117901.D  
Acq: 21 Nov 2019 10:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.0  | 17.5  | 26.3  |
| 125     | 12.2  | 7.9   | 11.9  |

