

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102119\  
 Data File : BF117455.D  
 Acq On : 21 Oct 2019 18:55  
 Operator : JU  
 Sample : K5146-14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 22 01:54:37 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  | 62065    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 252088   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.76  | 164  | 133846   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.25 | 188  | 230282   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.89 | 240  | 198890   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.32 | 264  | 194682   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.36  | 112  | 313922   | 75.25 | ng    | 0.00     |
| 7) Phenol-d6                | 6.38  | 99   | 405546   | 72.38 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 255595   | 50.05 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 94161    | 81.31 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 473517   | 49.85 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.83 | 244  | 544825   | 44.68 | ng    | 0.00     |

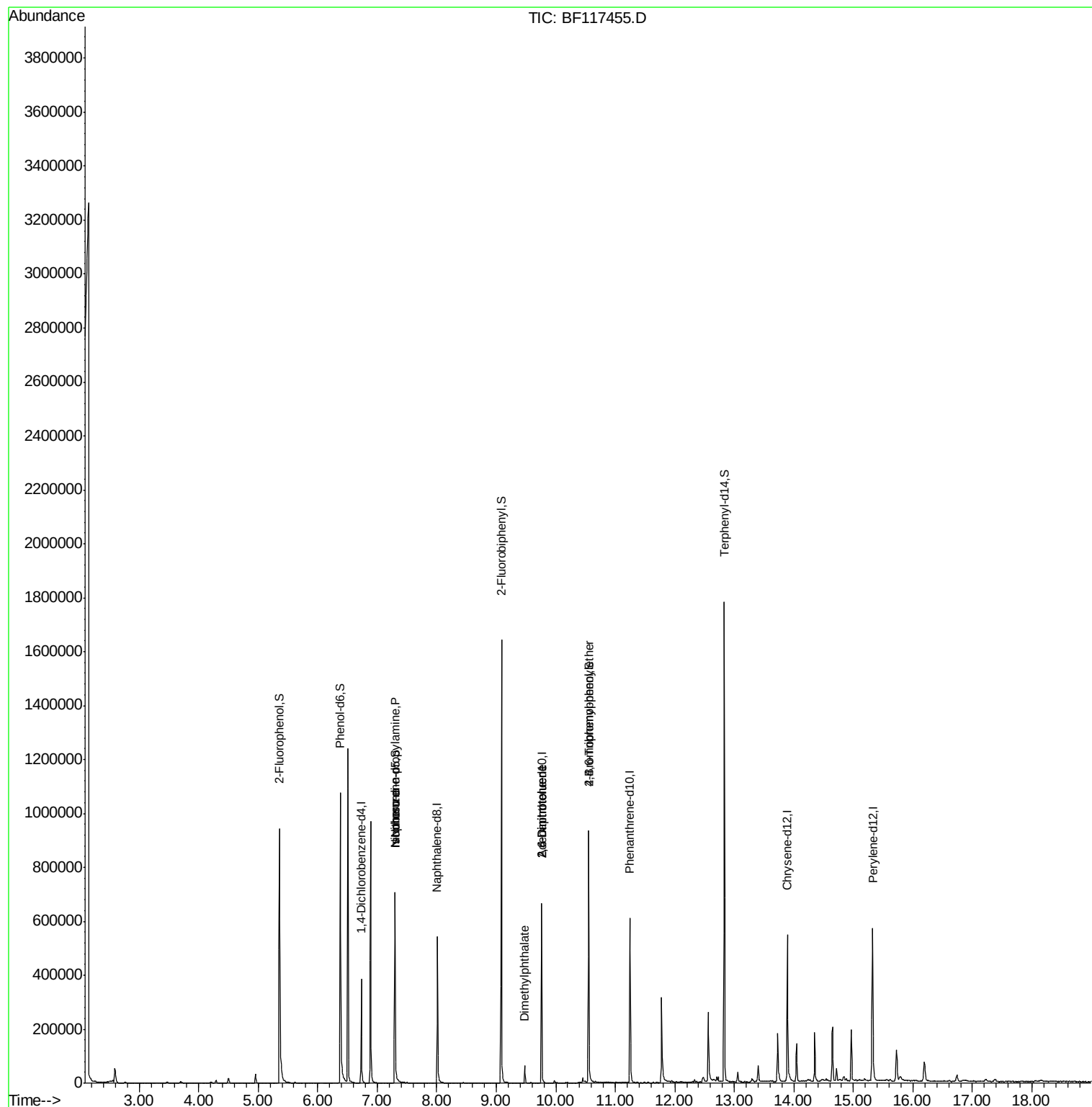
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.38  | 77   | 438      | Below Cal | #     | 3      |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 34708    | 10.143    | ng    | # 77   |
| 25) Isophorone                 | 7.30  | 82   | 255593   | 28.934    | ng    | # 65   |
| 50) Dimethylphthalate          | 9.48  | 163  | 24748    | 2.594     | ng    | # 98   |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165  | 16468    | 8.271     | ng    | # 24   |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 16468    | 6.221     | ng    | # 14   |
| 67) 4-Bromophenyl-phenylether  | 10.55 | 248  | 5767     | 2.325     | ng    | # 1    |
| 77) Benzidine                  | 12.83 | 184  | 7791     | Below Cal | #     | 95     |

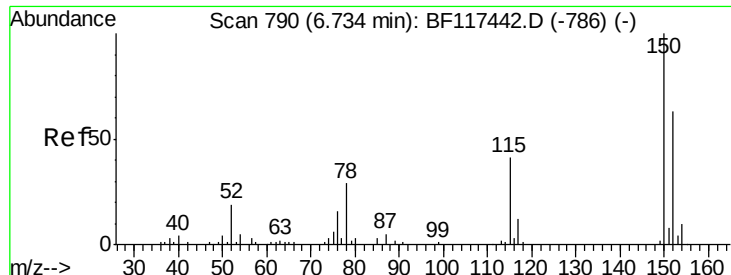
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102119\  
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Misc :  
ALS Vial : 8 Sample Multiplier: 1

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BNA\_F  
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Quant Time: Oct 22 01:54:37 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



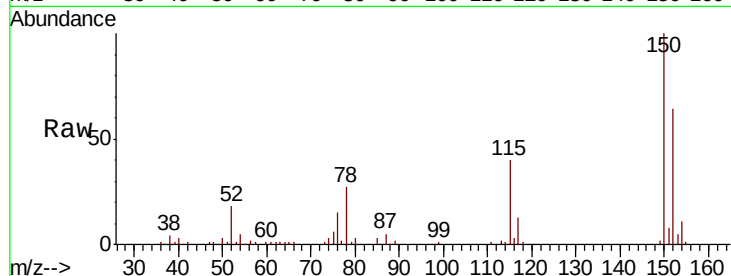


#1

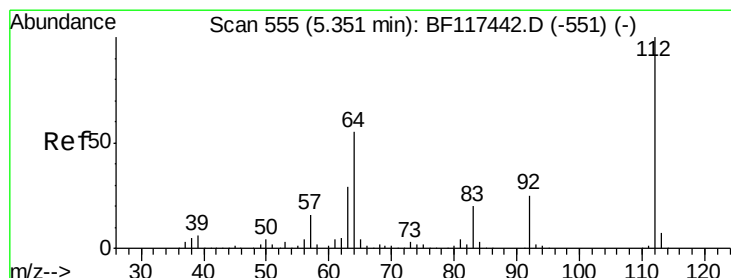
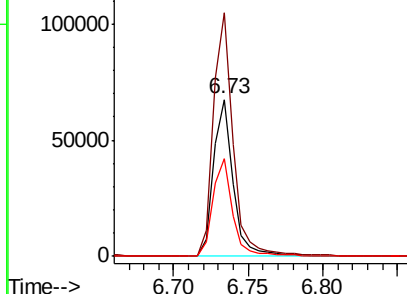
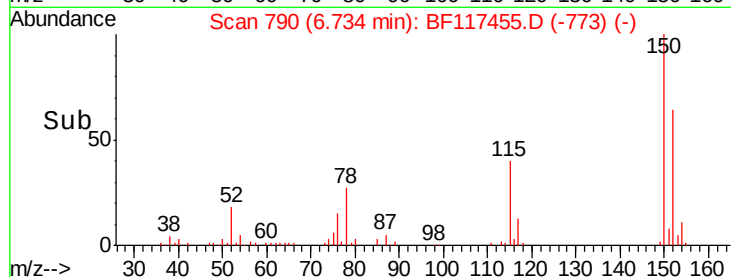
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. 0.00 min  
Lab File: BF117455.D  
Acq: 21 Oct 2019 18:55

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 62065  
Ion Ratio Lower Upper  
152 100  
150 155.1 126.8 190.2  
115 62.1 51.6 77.4



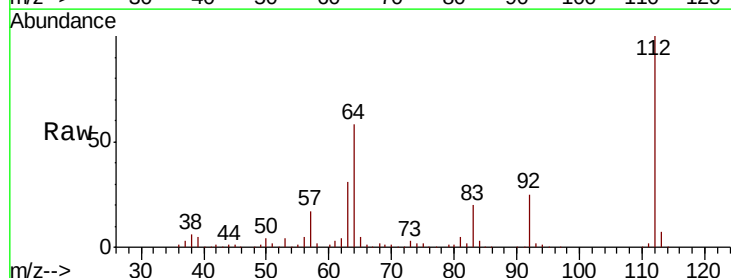
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



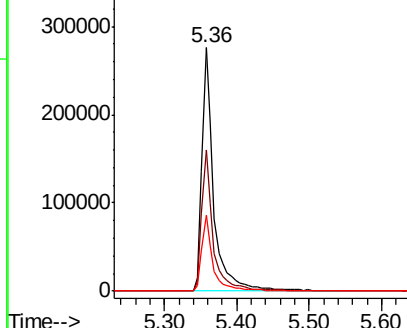
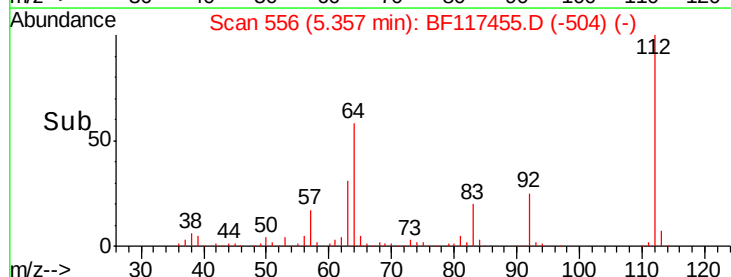
#5

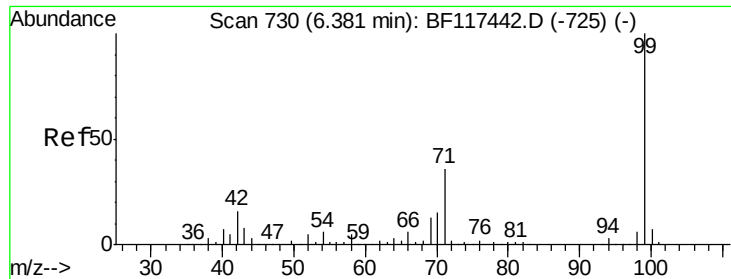
2-Fluorophenol  
Concen: 75.247 ng  
RT: 5.36 min Scan# 556  
Delta R.T. 0.01 min  
Lab File: BF117455.D  
Acq: 21 Oct 2019 18:55

Tgt Ion:112 Resp: 313922  
Ion Ratio Lower Upper  
112 100  
64 58.0 44.1 66.1  
63 31.1 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: 72.376 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

Instrument :

BNA\_F

ClientSampled :

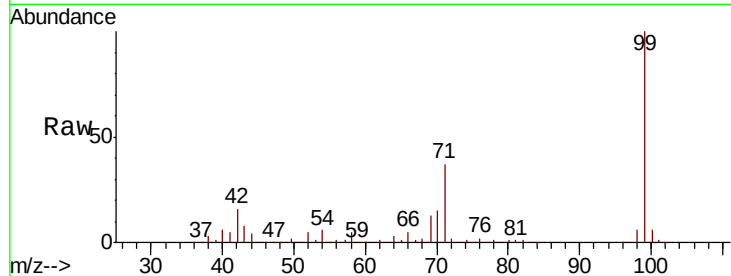
Tot Ion: 99 Resp: 405546

Ion Ratio Lower Upper

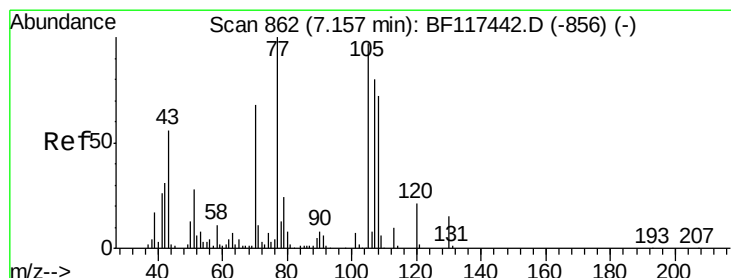
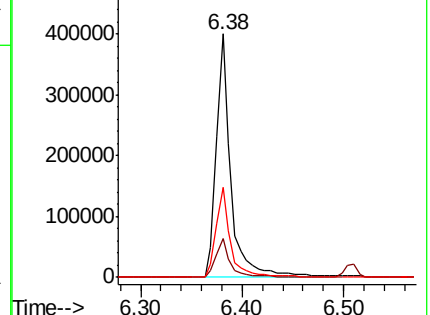
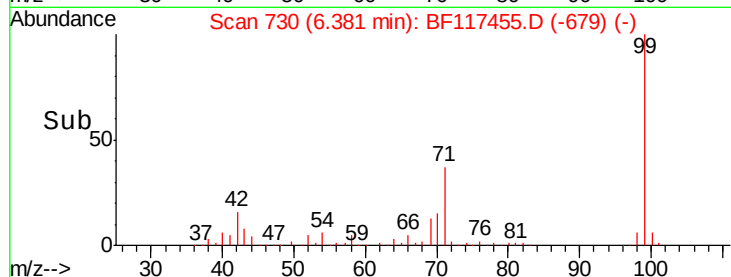
99 100

42 15.8 12.8 19.2

71 37.2 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



#19

n-Nitroso-di-n-propylamine

Concen: 10.143 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.14 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

Tgt Ion: 70 Resp: 34708

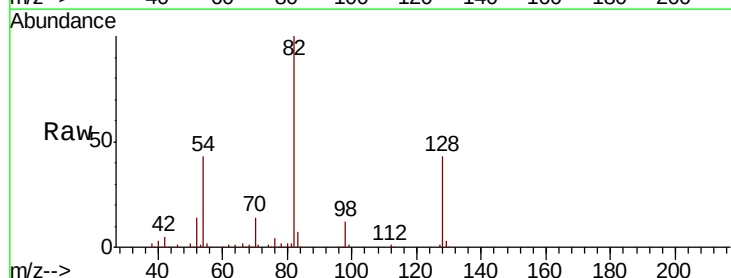
Ion Ratio Lower Upper

70 100

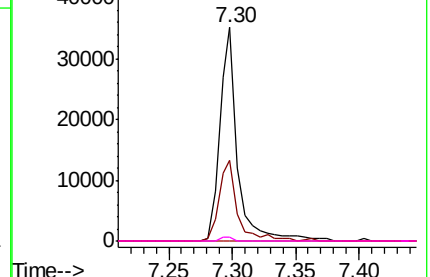
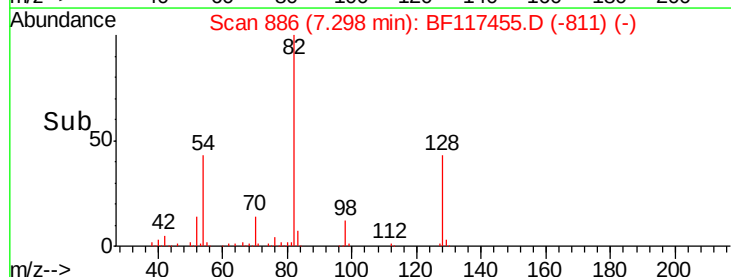
42 37.9 36.7 55.1

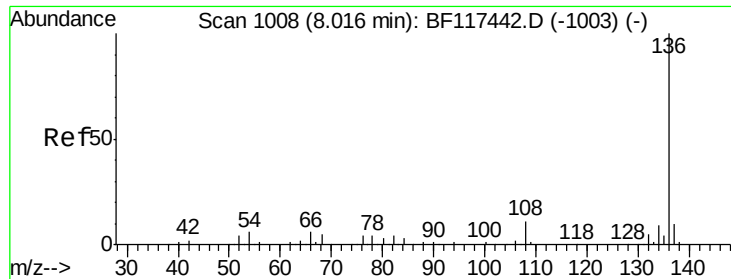
101 0.0 8.3 12.5#

130 2.1 18.1 27.1#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1

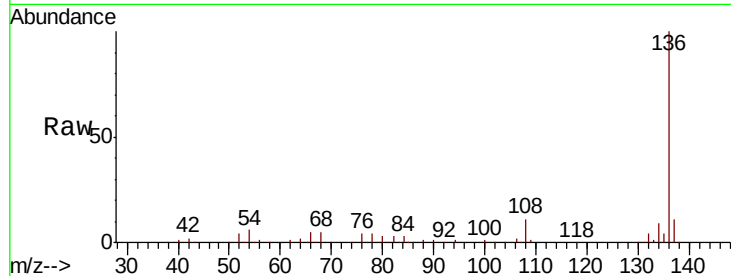




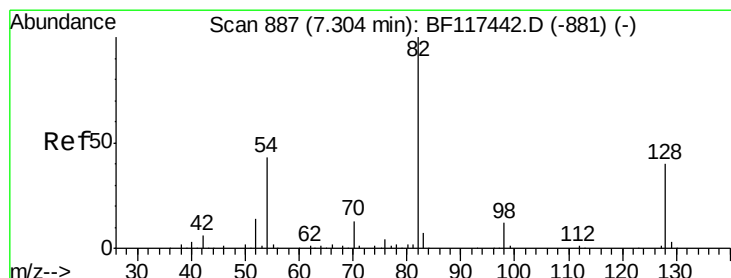
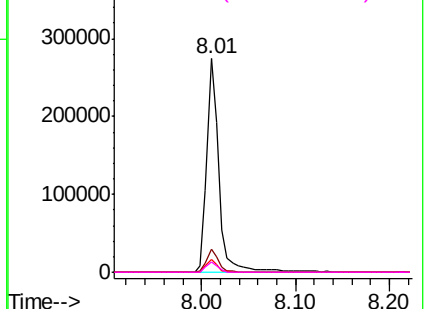
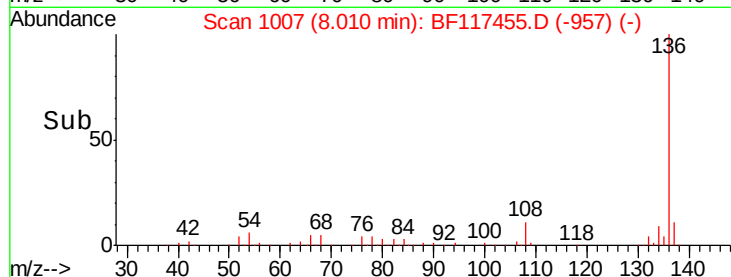
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF117455.D  
Acq: 21 Oct 2019 18:55

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 252088 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.2   | 12.4   |
| 54       | 6.2   | 4.5   | 6.7    |
| 68       | 5.0   | 4.3   | 6.5    |

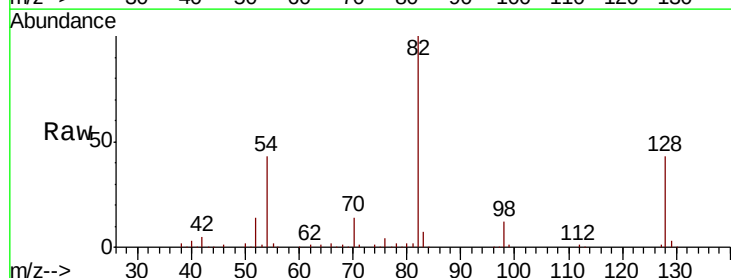


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

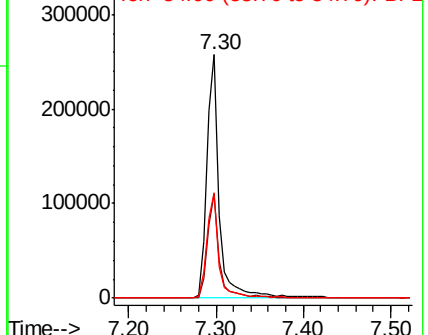
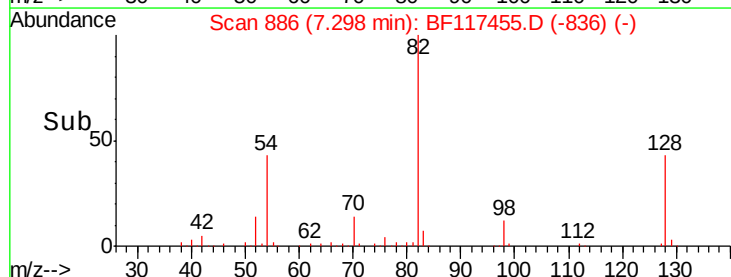


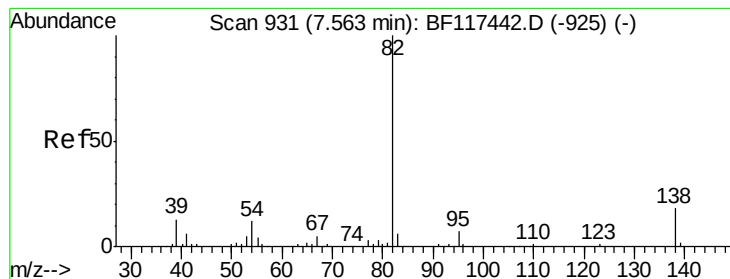
#23  
Nitrobenzene-d5  
Concen: 50.055 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.01 min  
Lab File: BF117455.D  
Acq: 21 Oct 2019 18:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 255595 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.8  | 32.2  | 48.2   |
| 54       | 43.1  | 34.2  | 51.2   |



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





#25

Isophorone

Concen: 28.934 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

Instrument :

BNA\_F

ClientSampleId :

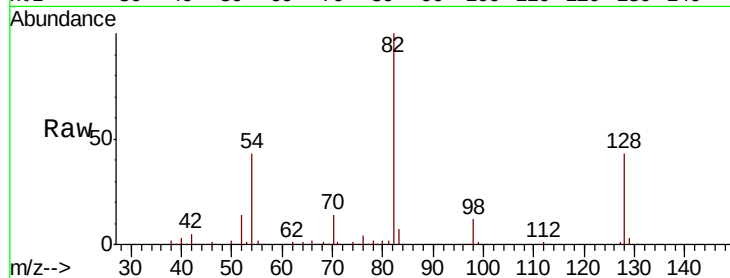
Tot Ion: 82 Resp: 255593

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

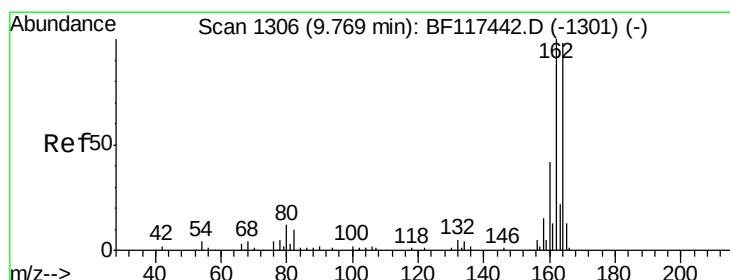
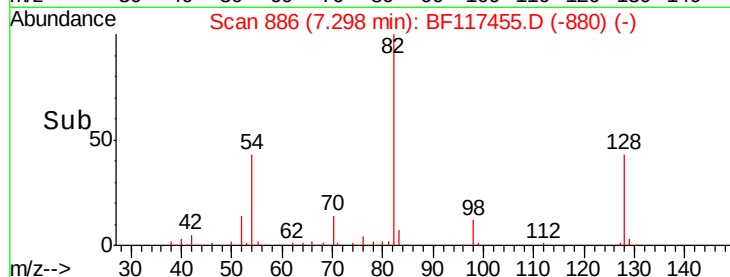
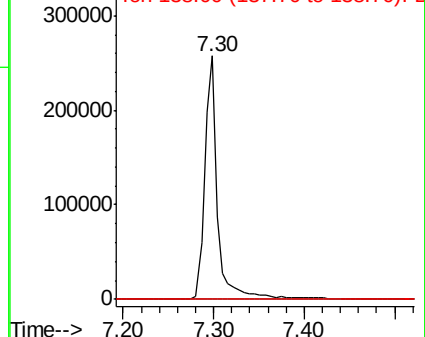
138 0.0 14.2 21.2#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

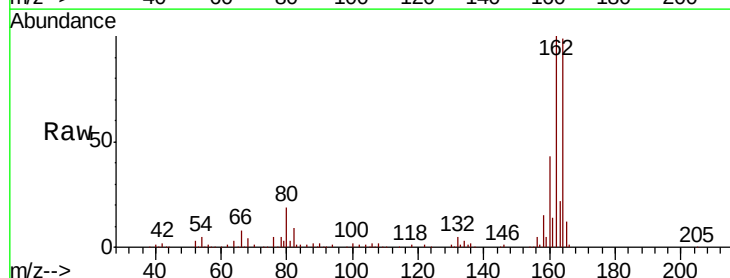
Tgt Ion:164 Resp: 133846

Ion Ratio Lower Upper

164 100

162 101.2 81.8 122.6

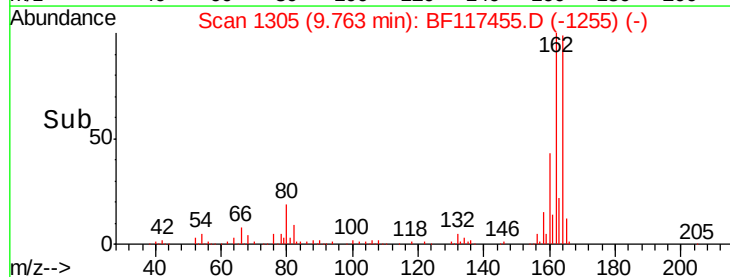
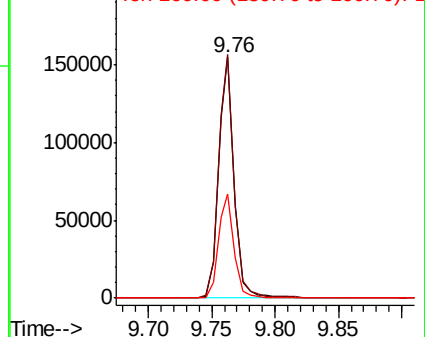
160 43.5 34.4 51.6

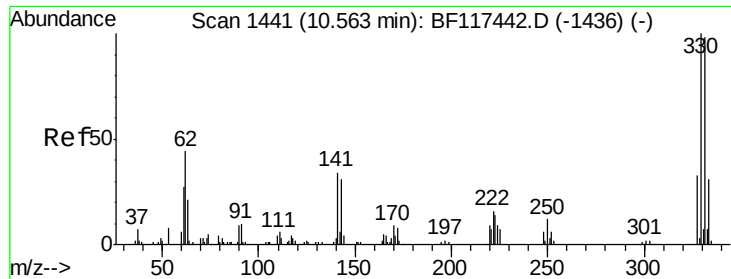


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 81.306 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.01 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

Instrument :

BNA\_F

ClientSampleId :

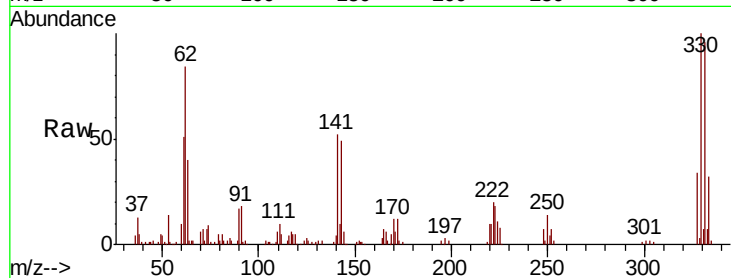
Tot Ion:330 Resp: 94161

Ion Ratio Lower Upper

330 100

332 97.7 78.5 117.7

141 45.4 37.0 55.6

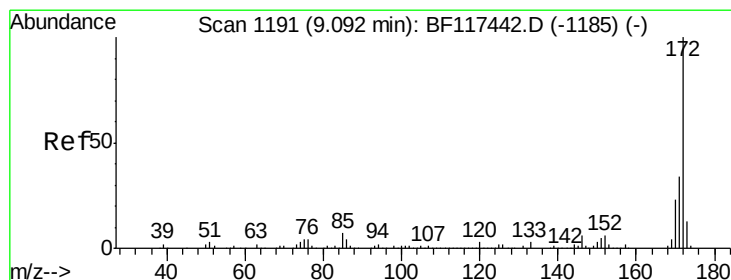
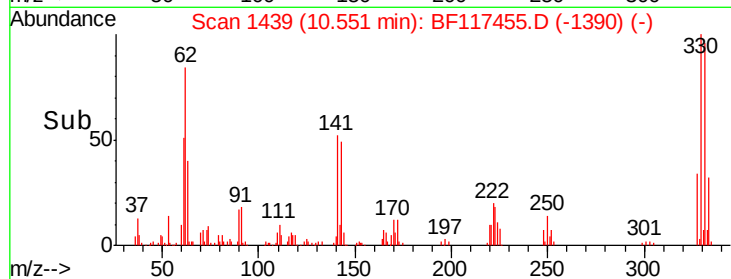
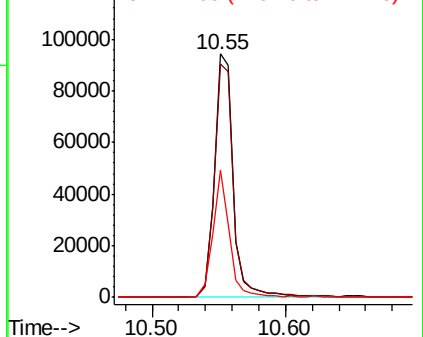


Abundance

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: 49.847 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

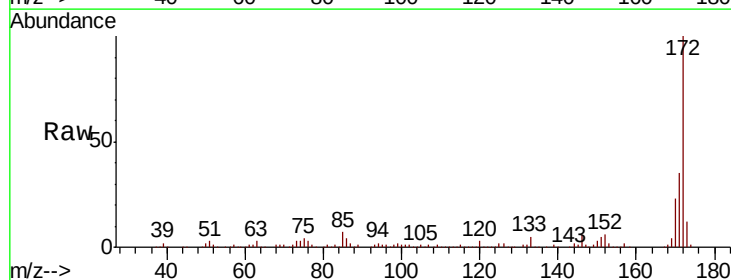
Tgt Ion:172 Resp: 473517

Ion Ratio Lower Upper

172 100

171 34.8 27.5 41.3

170 22.7 18.6 27.8

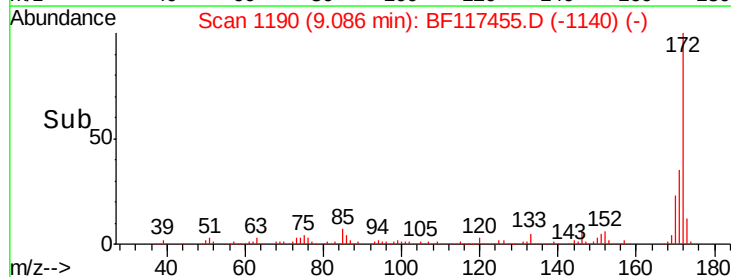
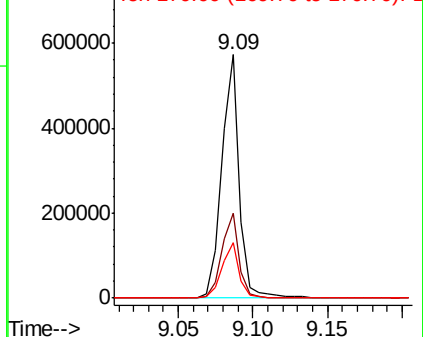


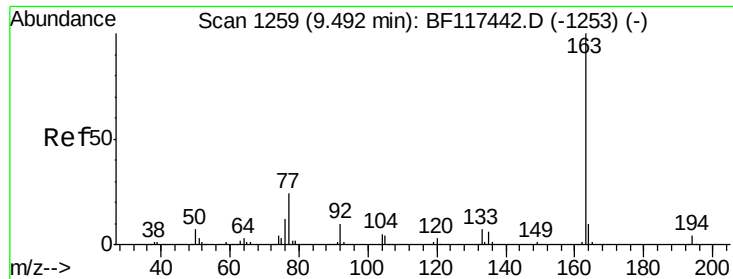
Abundance

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

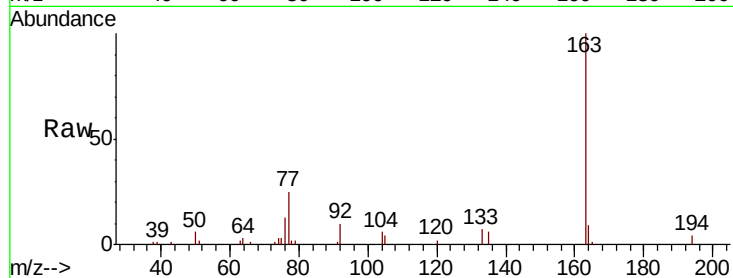




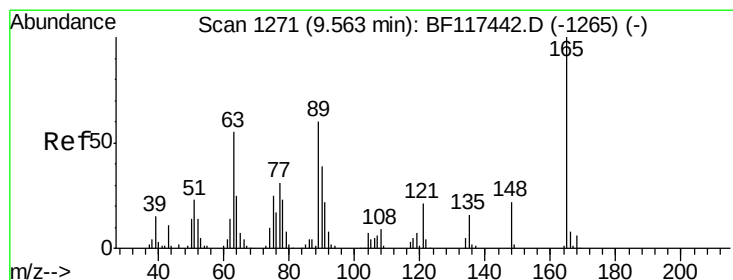
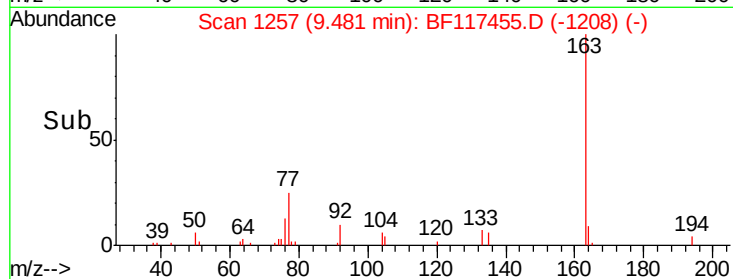
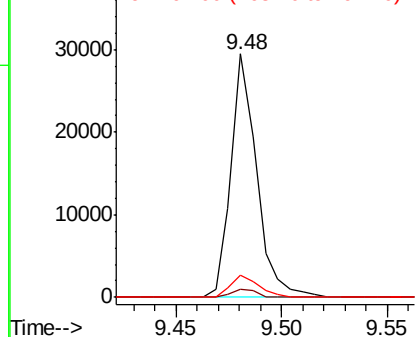
#50  
Dimethylphthalate  
Concen: 2.594 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.01 min  
Lab File: BF117455.D  
Acq: 21 Oct 2019 18:55

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 2.9   | 4.3   |
| 164     | 9.0   | 8.2   | 12.2  |

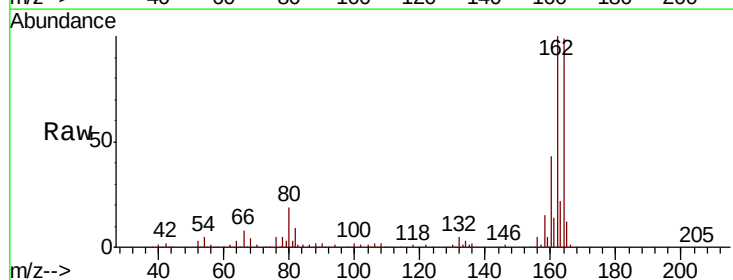


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

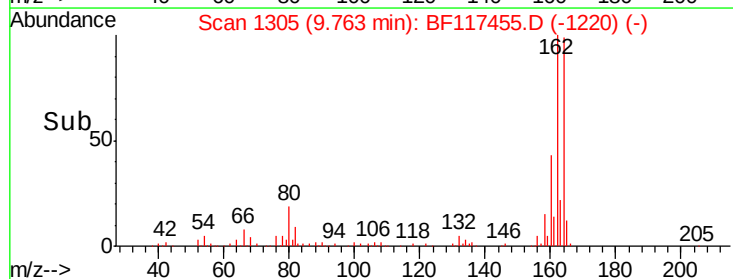
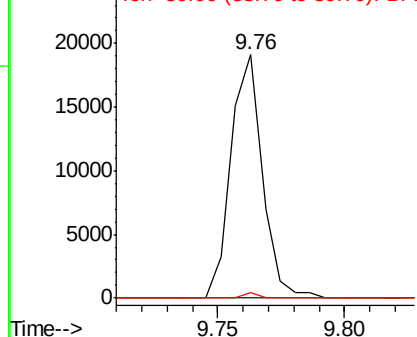


#51  
2,6-Dinitrotoluene  
Concen: 8.271 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. 0.20 min  
Lab File: BF117455.D  
Acq: 21 Oct 2019 18:55

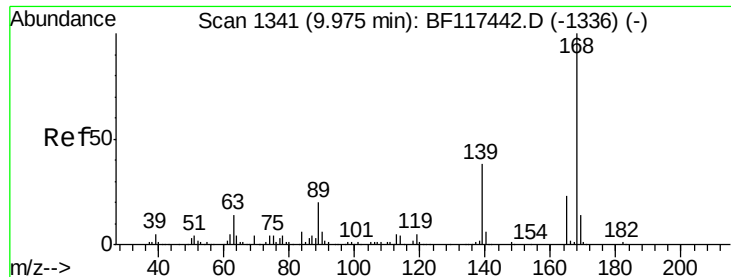
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.8  | 65.8# |
| 89      | 2.1   | 47.6  | 71.4# |



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



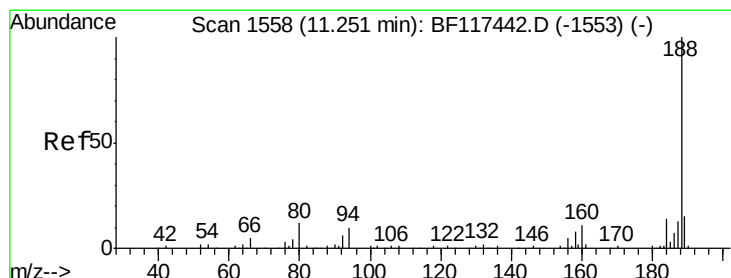
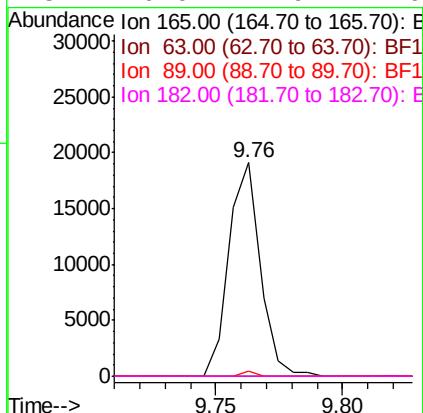
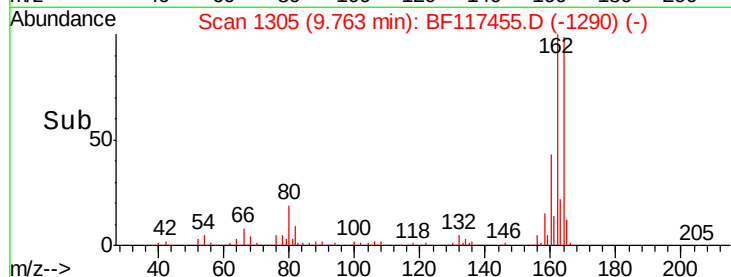
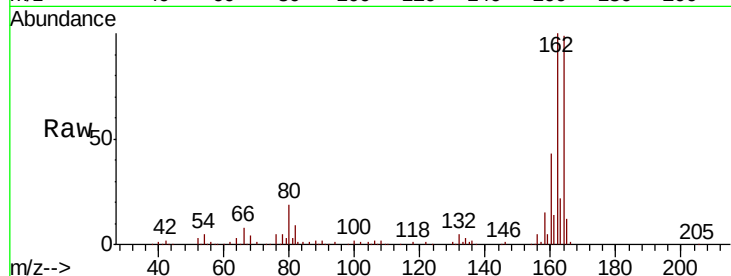




#57  
 2,4-Dinitrotoluene  
 Concen: 6.221 ng  
 RT: 9.76 min Scan# 1305  
 Delta R.T. -0.21 min  
 Lab File: BF117455.D  
 Acq: 21 Oct 2019 18:55

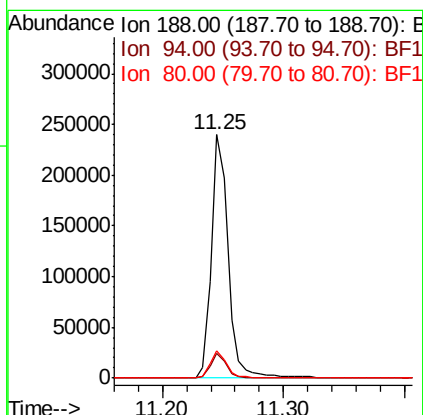
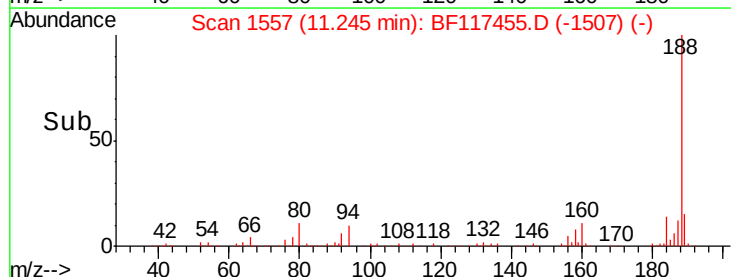
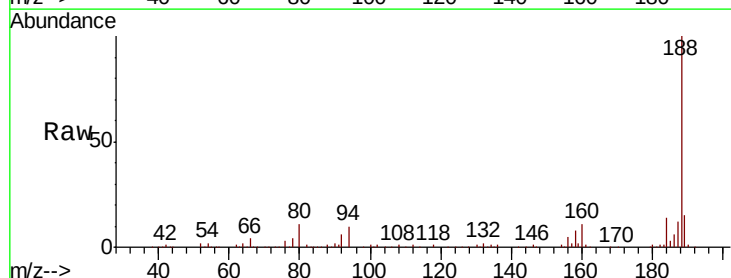
Instrument :  
 BNA\_F  
 ClientSampleId :

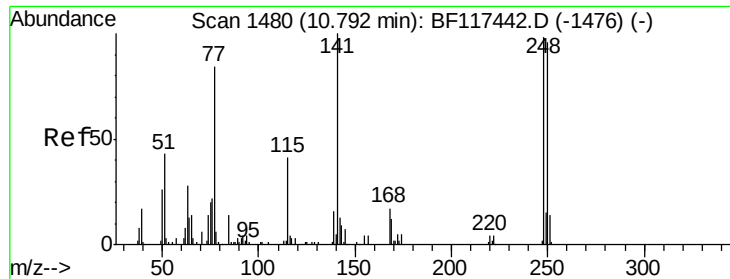
Tot Ion:165 Resp: 16468  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.4 77.0#  
 89 2.1 69.9 104.9#  
 182 0.0 1.9 2.9#



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.25 min Scan# 1557  
 Delta R.T. -0.01 min  
 Lab File: BF117455.D  
 Acq: 21 Oct 2019 18:55

Tgt Ion:188 Resp: 230282  
 Ion Ratio Lower Upper  
 188 100  
 94 10.1 8.0 12.0  
 80 11.3 9.5 14.3

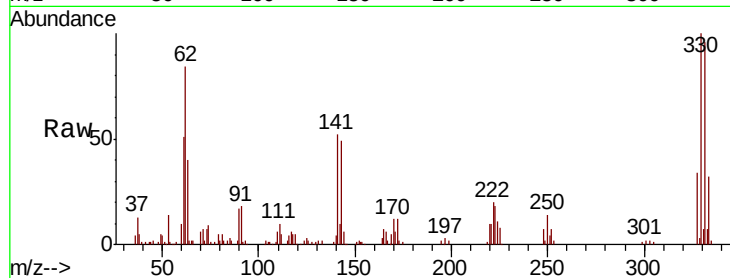




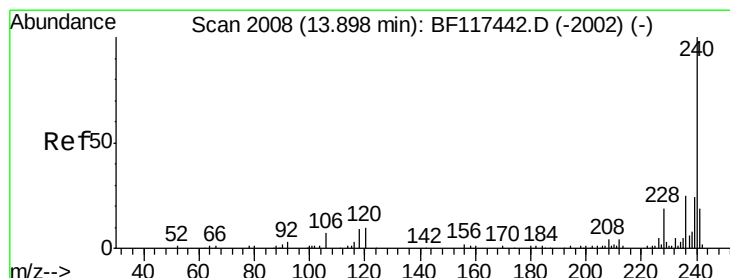
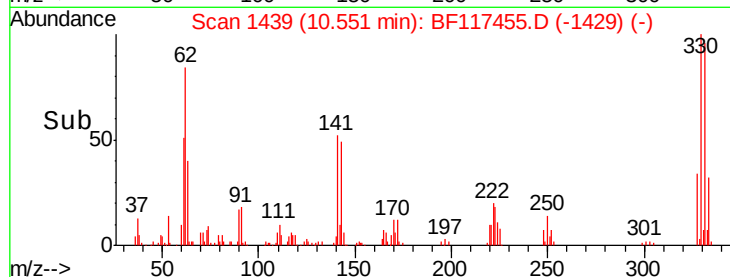
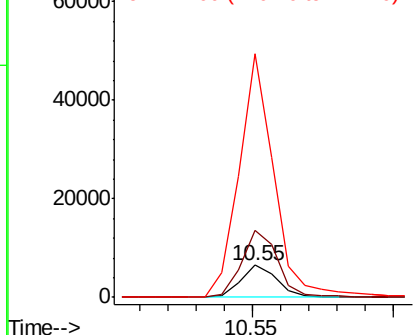
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.325 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. -0.24 min  
 Lab File: BF117455.D  
 Acq: 21 Oct 2019 18:55

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 5767  
 Ion Ratio Lower Upper  
 248 100  
 250 207.2 78.0 117.0#  
 141 752.2 81.7 122.5#

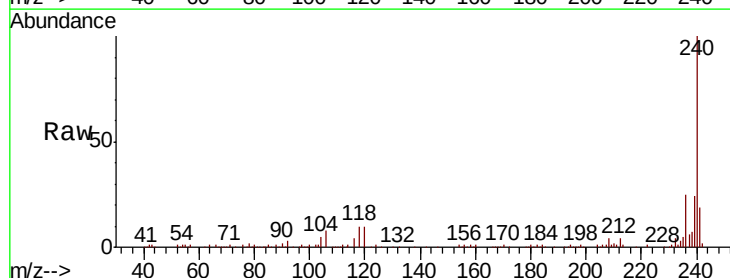


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

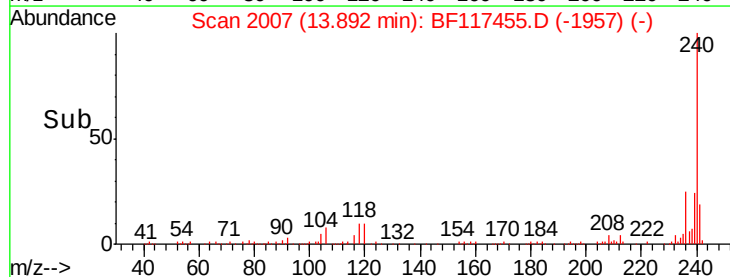
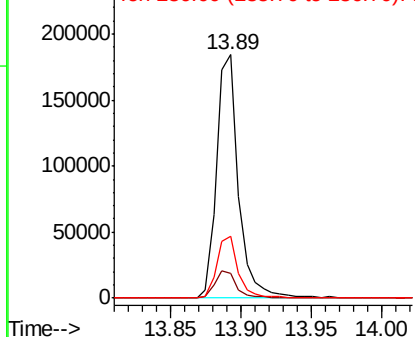


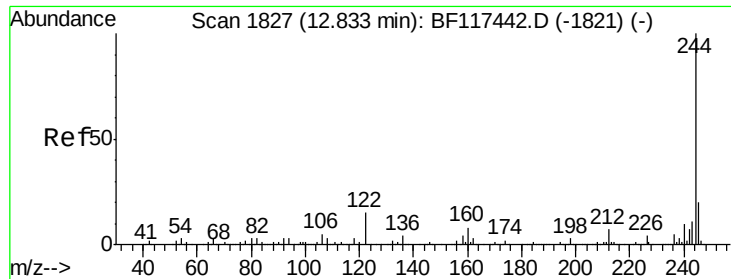
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.89 min Scan# 2007  
 Delta R.T. -0.01 min  
 Lab File: BF117455.D  
 Acq: 21 Oct 2019 18:55

Tgt Ion:240 Resp: 198890  
 Ion Ratio Lower Upper  
 240 100  
 120 10.0 8.4 12.6  
 236 25.2 20.0 30.0



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





#79

Terphenyl-d14

Concen: 44.682 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.00 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

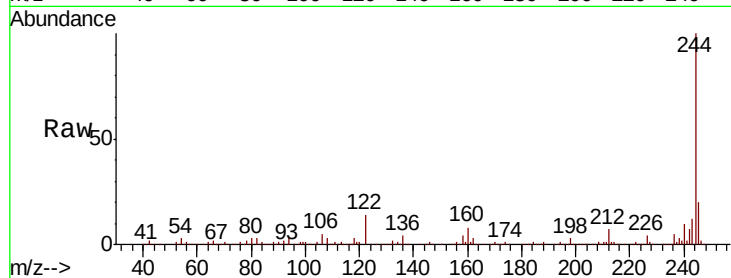
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:244 Resp: 544825

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.2   | 5.8   | 8.6   |
| 122 | 13.8  | 11.8  | 17.8  |

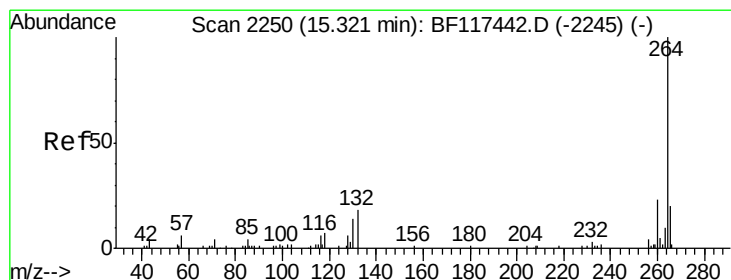
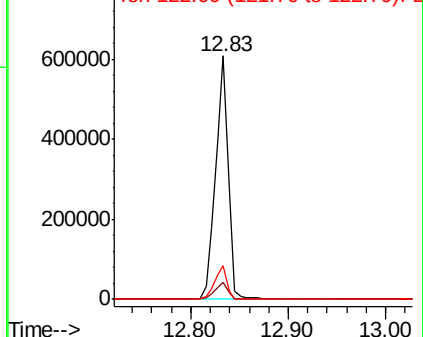
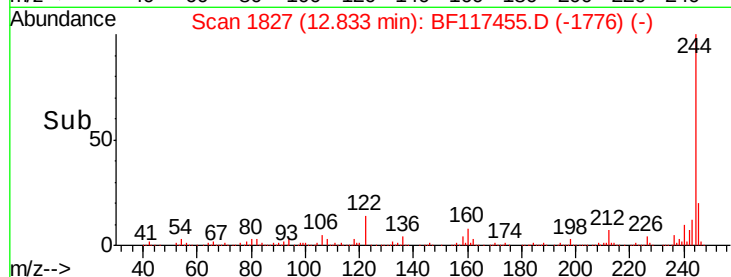


Abundance

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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.32 min Scan# 2250

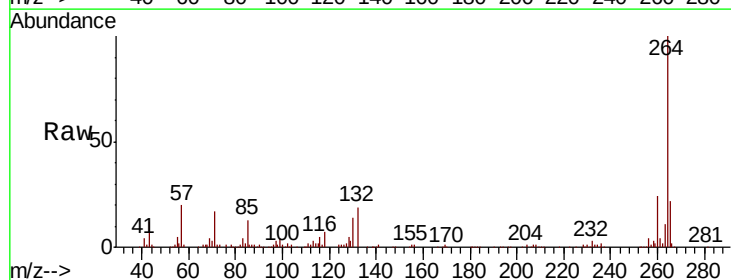
Delta R.T. 0.00 min

Lab File: BF117455.D

Acq: 21 Oct 2019 18:55

Tgt Ion:264 Resp: 194682

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.5  | 18.4  | 27.6  |
| 265 | 21.9  | 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

