

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\  
 Data File : BF116544.D  
 Acq On : 25 Aug 2019 20:45  
 Operator : HP/JU  
 Sample : K4401-03 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 26 06:31:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 23 13:38:31 2019  
 Response via : Initial Calibration

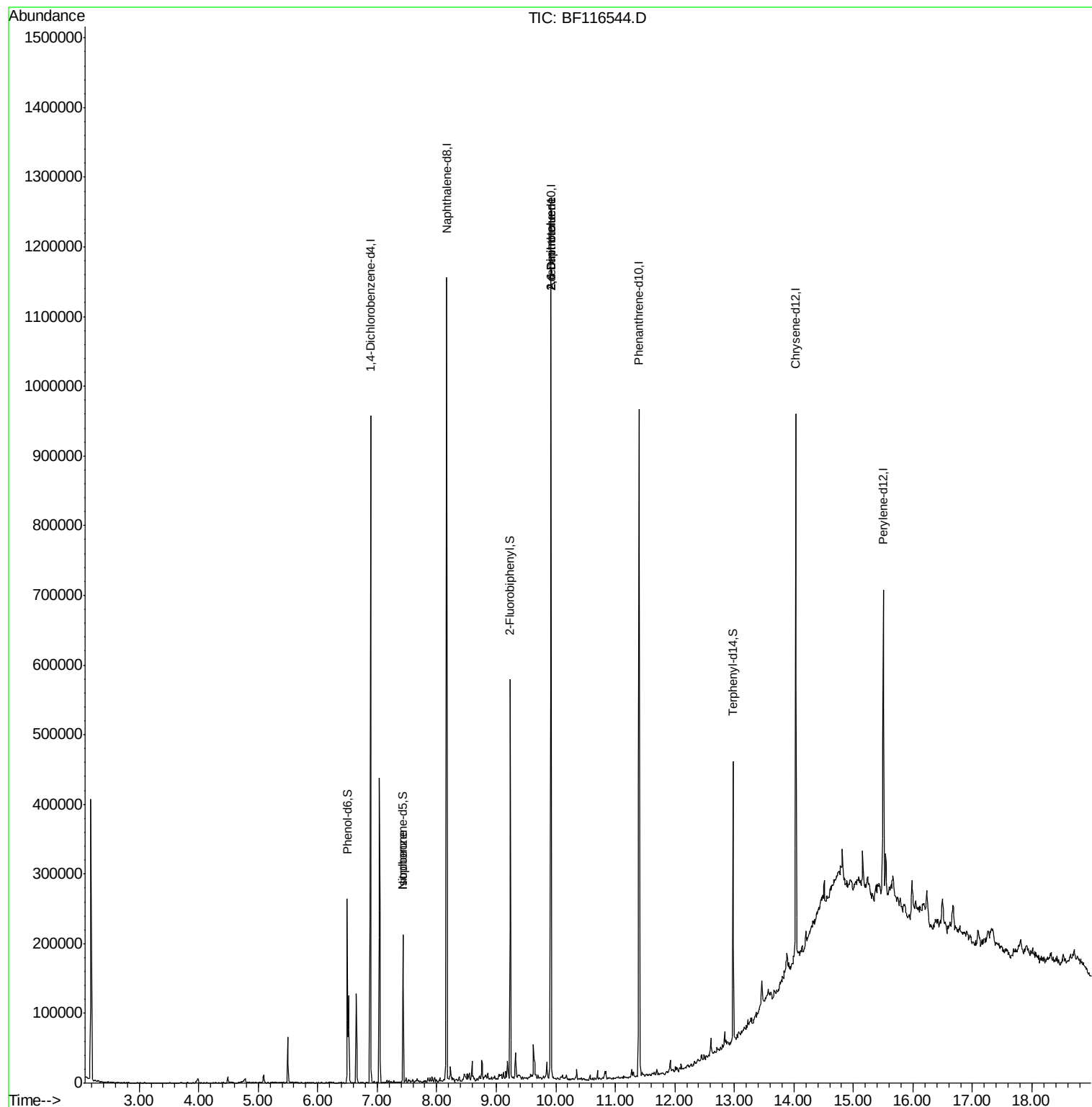
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.89  | 152  | 137129   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.17  | 136  | 520096   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.92  | 164  | 232165   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.40 | 188  | 328550   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.03 | 240  | 228423   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.50 | 264  | 202154   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 17165    | 1.83  | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 88502    | 7.69  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.43  | 82   | 60109    | 6.32  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.70 | 330  | 1506     | 0.76  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.23  | 172  | 158512   | 11.00 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.98 | 244  | 116477   | 9.52  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.43  | 82   | 59795    | 3.192 | ng    | # 67     |
| 51) 2,6-Dinitrotoluene      | 9.92  | 165  | 29652    | 8.943 | ng    | # 26     |
| 57) 2,4-Dinitrotoluene      | 9.92  | 165  | 29652    | 7.028 | ng    | # 21     |

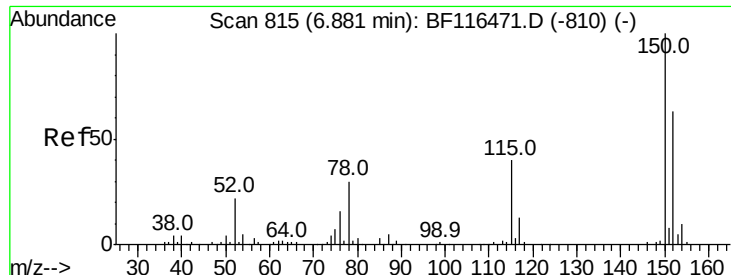
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082519\  
Data File : BF116544.D  
Acq On : 25 Aug 2019 20:45  
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Sample : K4401-03 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Aug 26 06:31:01 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 23 13:38:31 2019  
Response via : Initial Calibration



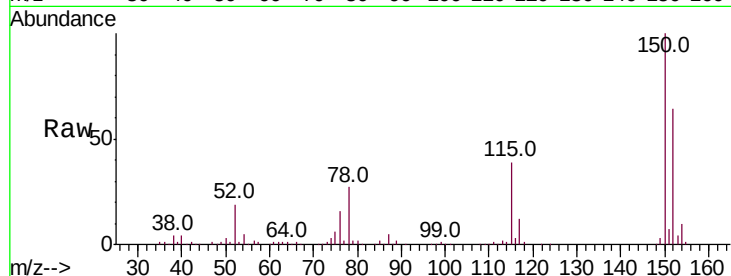


#1

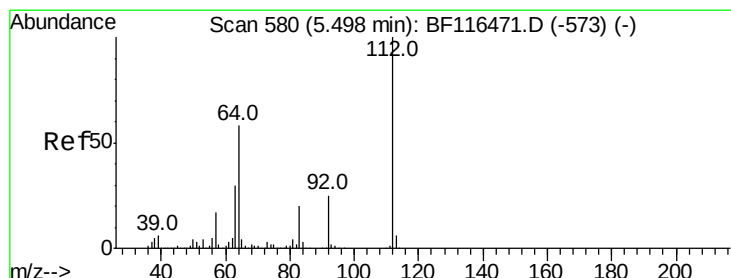
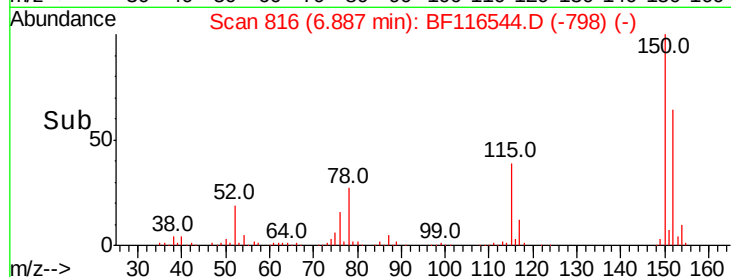
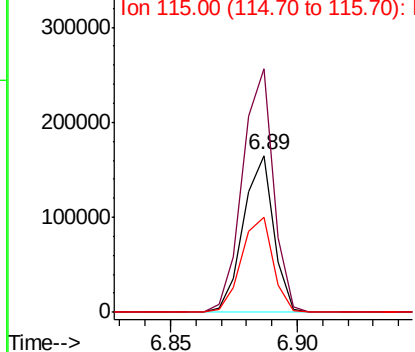
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 816  
Delta R.T. 0.01 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 137129  
Ion Ratio Lower Upper  
152 100  
150 155.1 126.7 190.1  
115 60.2 50.9 76.3



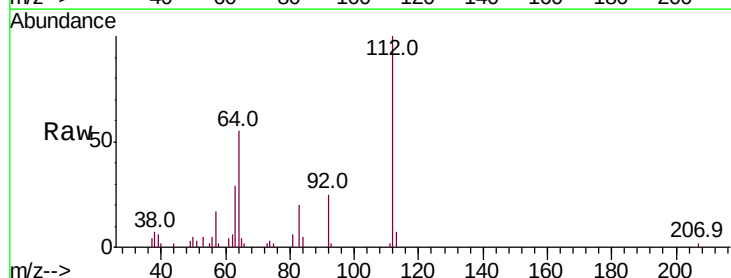
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



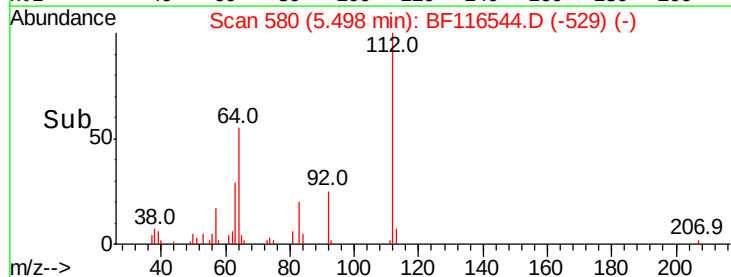
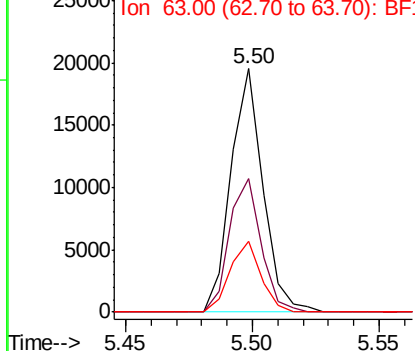
#5

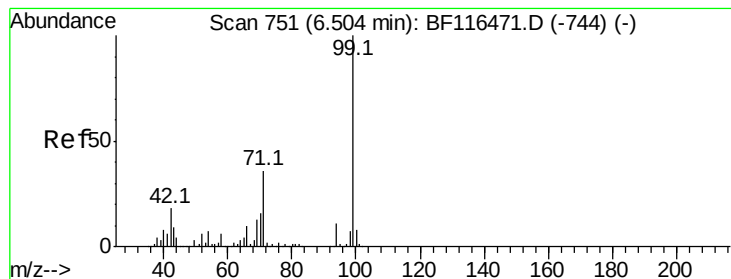
2-Fluorophenol  
Concen: 1.829 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.00 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

Tgt Ion:112 Resp: 17165  
Ion Ratio Lower Upper  
112 100  
64 54.9 46.3 69.5  
63 28.9 24.2 36.4



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





#7

Phenol-d6

Concen: 7.691 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF116544.D

Acq: 25 Aug 2019 20:45

Instrument :

BNA\_F

ClientSampleId :

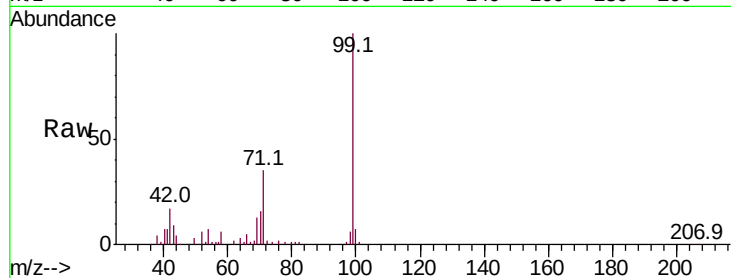
Tot Ion: 99 Resp: 88502

Ion Ratio Lower Upper

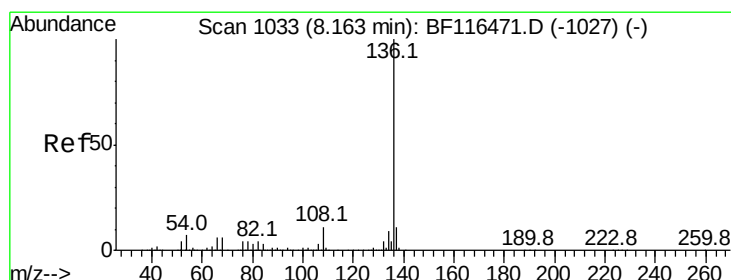
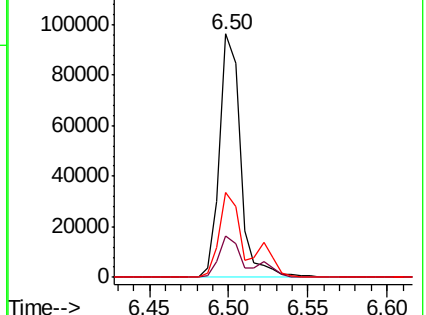
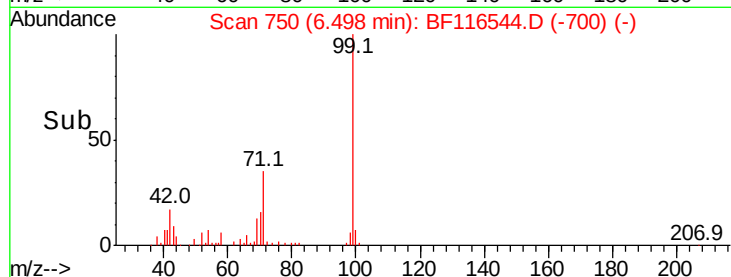
99 100

42 17.0 14.6 21.8

71 34.9 28.5 42.7



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.01 min

Lab File: BF116544.D

Acq: 25 Aug 2019 20:45

Tgt Ion: 136 Resp: 520096

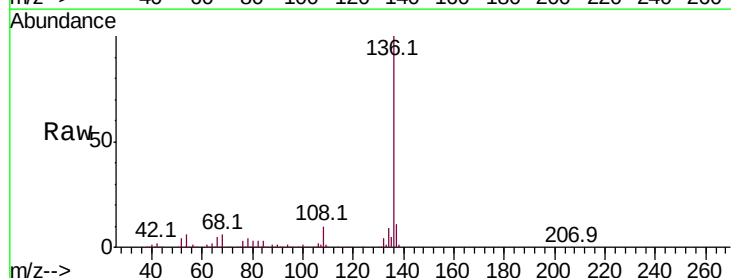
Ion Ratio Lower Upper

136 100

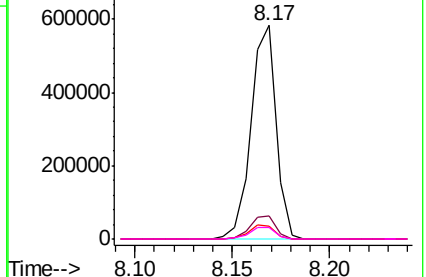
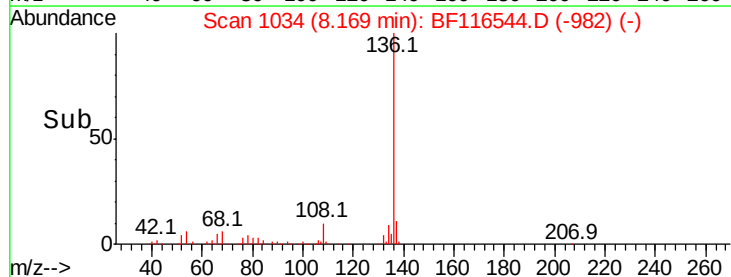
137 10.7 9.0 13.4

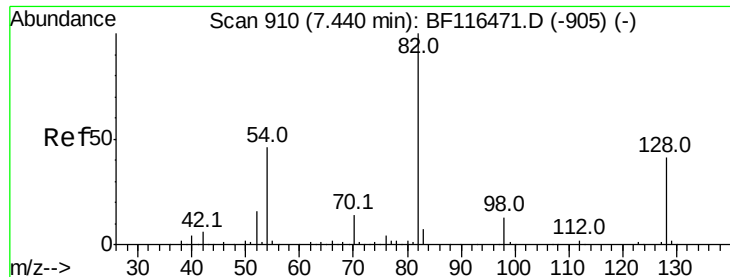
54 6.1 5.8 8.6

68 5.5 5.1 7.7



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

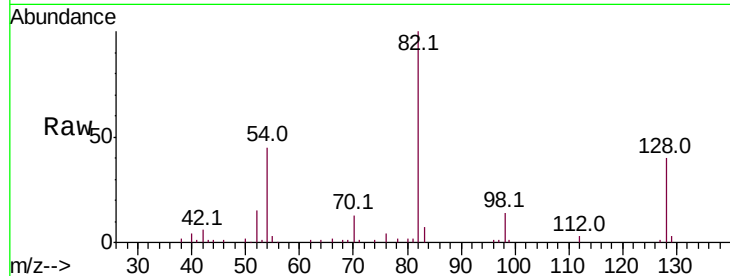




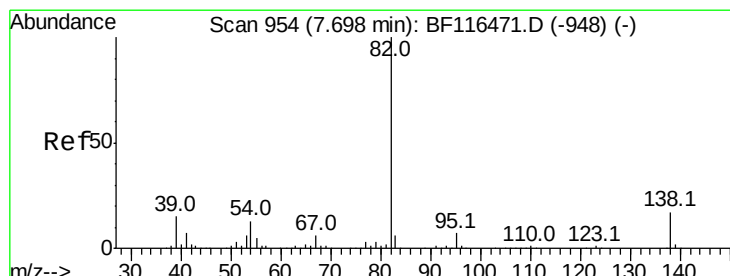
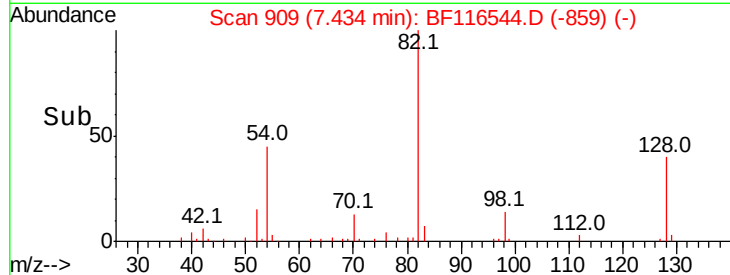
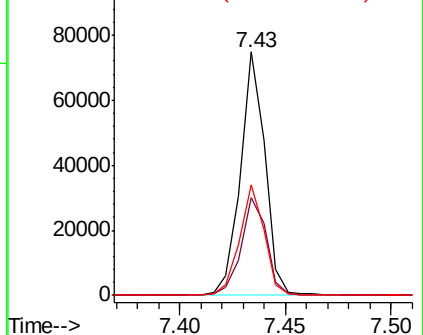
#23  
Nitrobenzene-d5  
Concen: 6.323 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.0  | 32.2  | 48.4  |
| 54      | 45.2  | 36.5  | 54.7  |

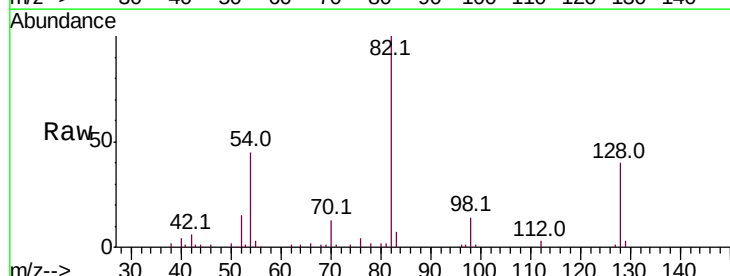


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

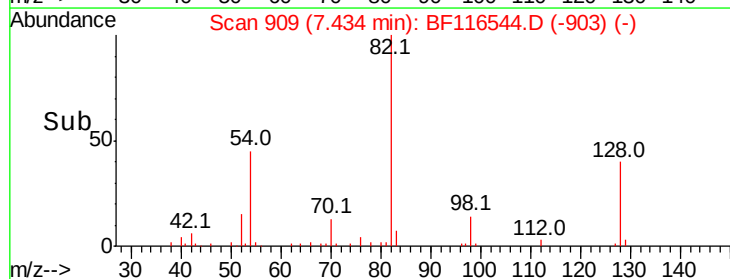
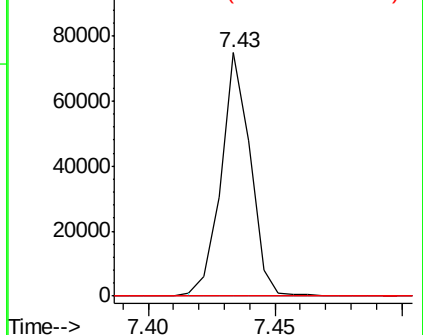


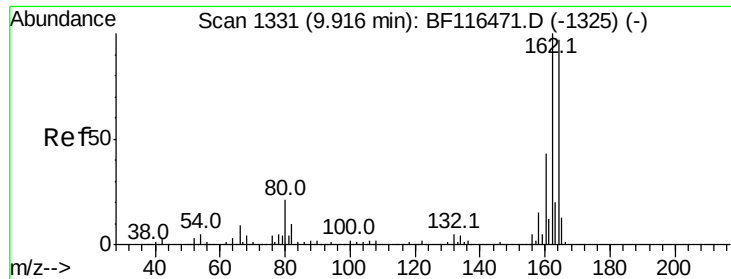
#25  
Isophorone  
Concen: 3.192 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.26 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.3   | 7.9#  |
| 138     | 0.0   | 13.3  | 19.9# |



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

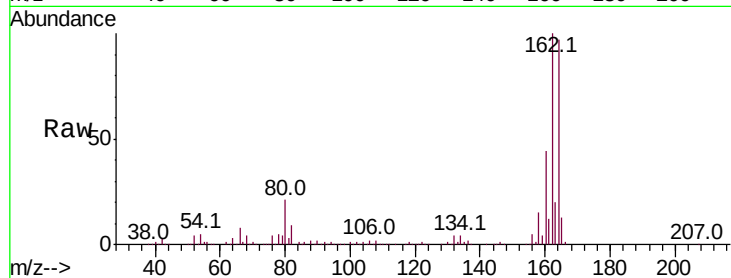




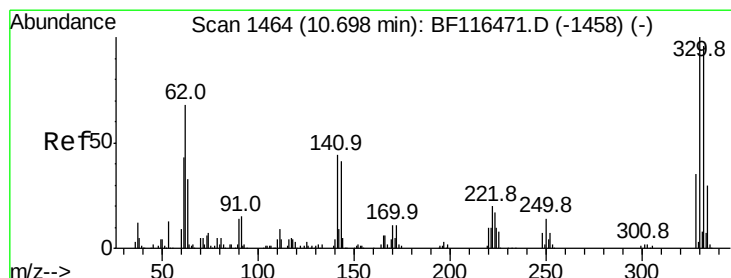
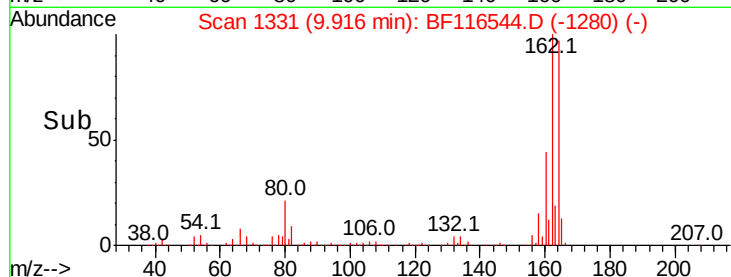
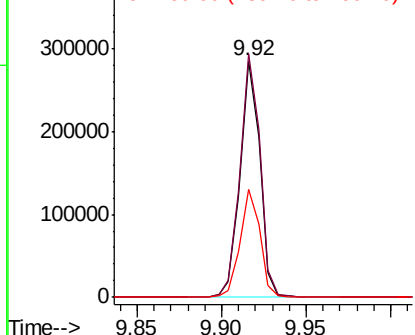
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.00 min  
 Lab File: BF116544.D  
 Acq: 25 Aug 2019 20:45

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.1 | 82.6  | 123.8 |
| 160     | 45.5  | 35.8  | 53.8  |

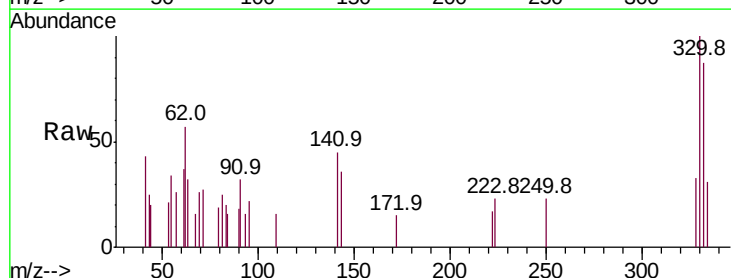


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

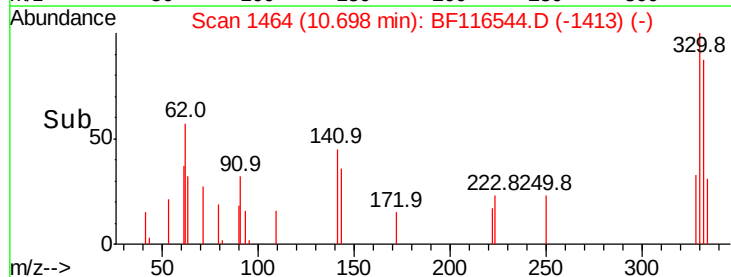
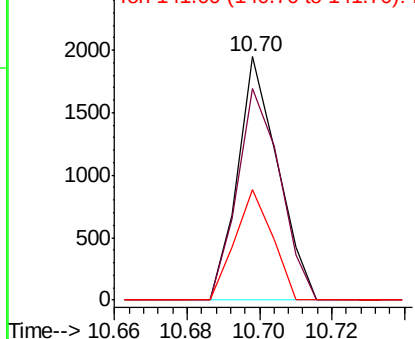


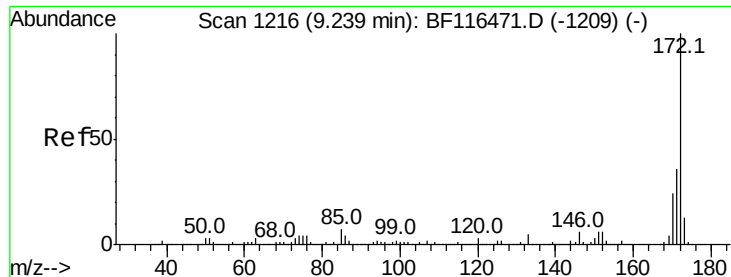
#42  
 2,4,6-Tribromophenol  
 Concen: 0.755 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.00 min  
 Lab File: BF116544.D  
 Acq: 25 Aug 2019 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 92.2  | 77.2  | 115.8 |
| 141     | 42.2  | 33.3  | 49.9  |



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

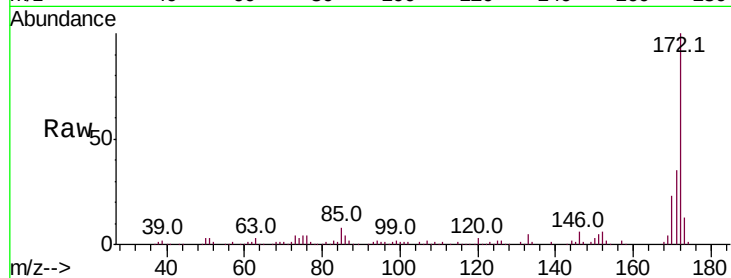




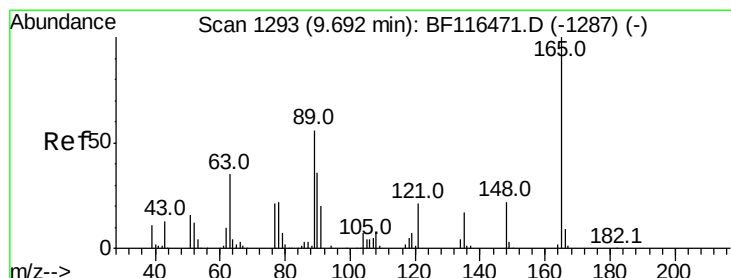
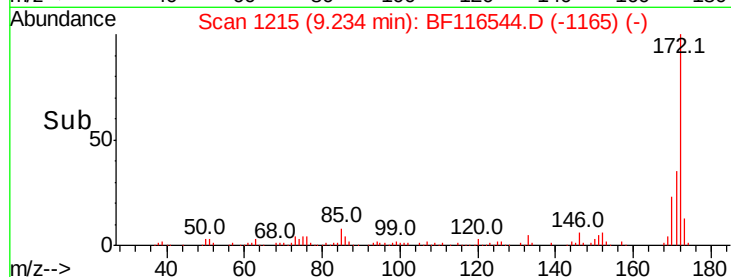
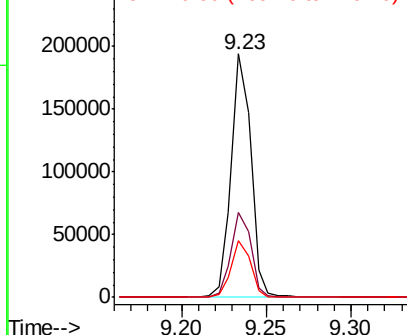
#45  
2-Fluorobiphenyl  
Concen: 10.995 ng  
RT: 9.23 min Scan# 1215  
Delta R.T. -0.01 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.7  | 28.9  | 43.3  |
| 170     | 23.2  | 19.4  | 29.0  |

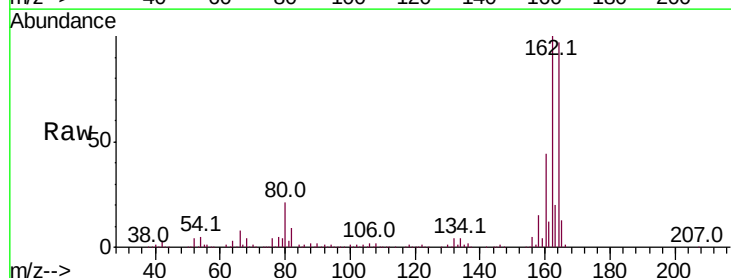


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

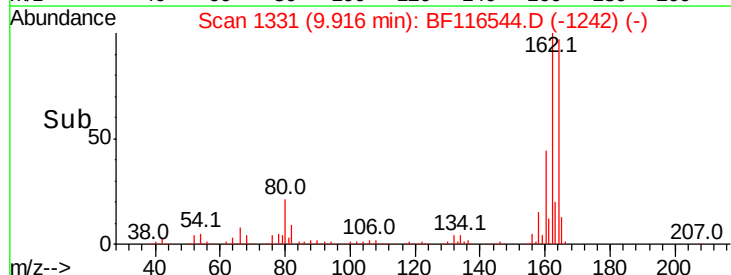
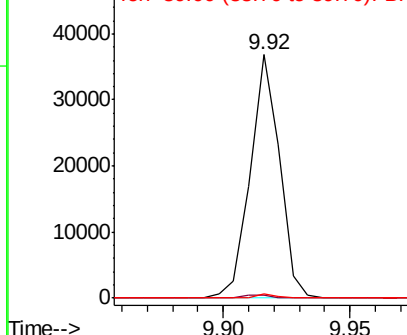


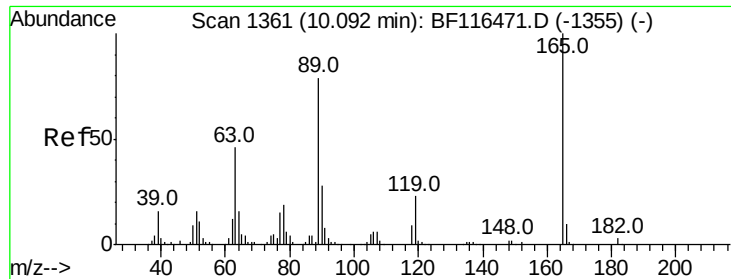
#51  
2,6-Dinitrotoluene  
Concen: 8.943 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. 0.22 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 43.7  | 65.5# |
| 89      | 1.7   | 45.1  | 67.7# |



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

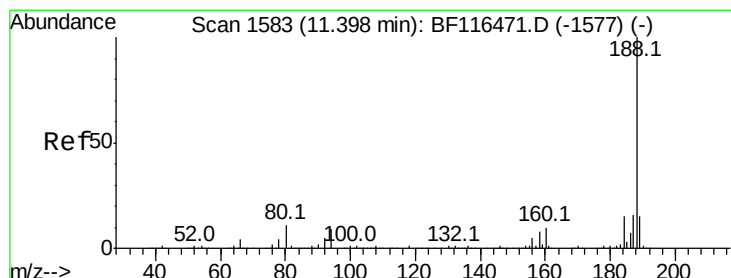
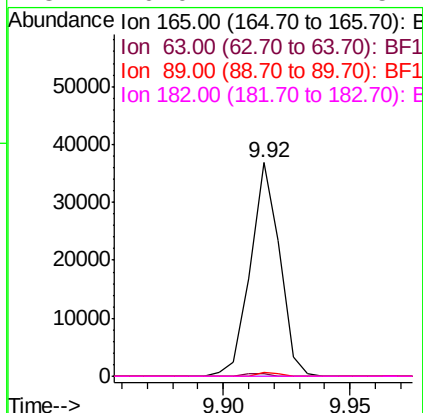
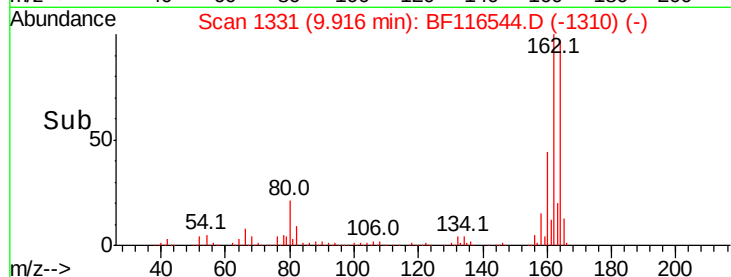
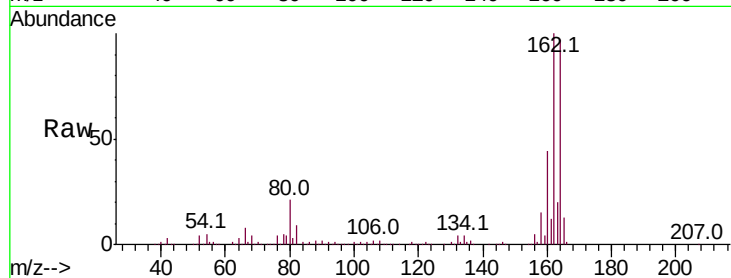




#57  
 2,4-Dinitrotoluene  
 Concen: 7.028 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.18 min  
 Lab File: BF116544.D  
 Acq: 25 Aug 2019 20:45

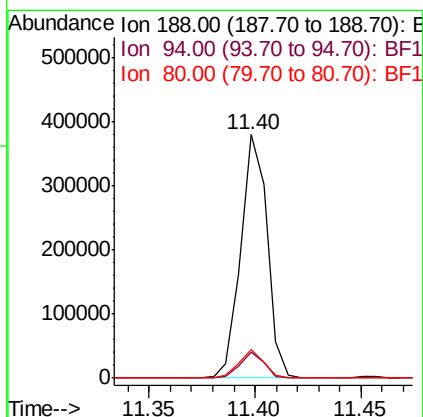
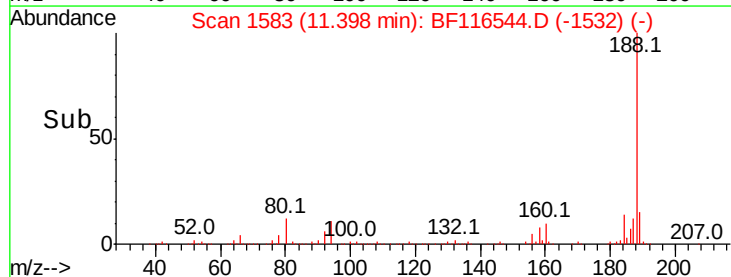
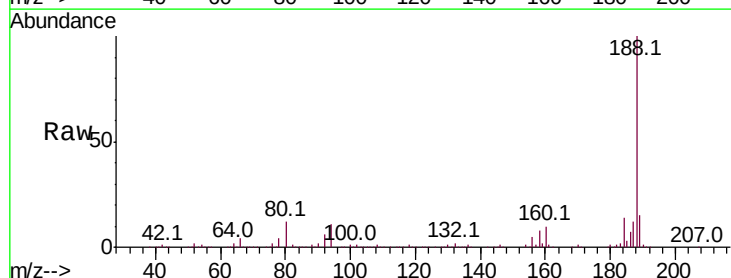
Instrument :  
 BNA\_F  
 ClientSampleID :

|             |       |       |  |
|-------------|-------|-------|--|
| Tot Ion:165 | Resp: | 29652 |  |
| Ion Ratio   | Lower | Upper |  |
| 165 100     |       |       |  |
| 63 1.1      | 36.9  | 55.3# |  |
| 89 1.7      | 63.4  | 95.0# |  |
| 182 0.0     | 2.1   | 3.1#  |  |

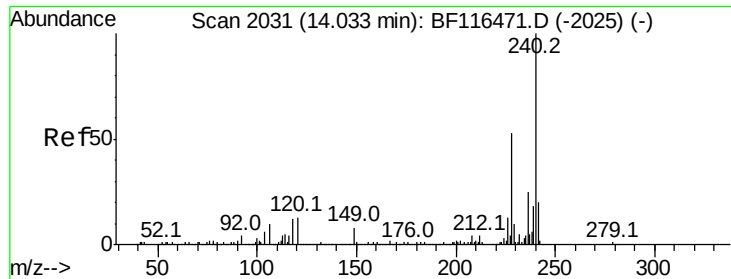


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1583  
 Delta R.T. -0.00 min  
 Lab File: BF116544.D  
 Acq: 25 Aug 2019 20:45

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:188 | Resp: | 328550 |
| Ion | Ratio   | Lower | Upper  |
| 188 | 100     |       |        |
| 94  | 10.5    | 7.4   | 11.2   |
| 80  | 11.6    | 8.6   | 12.8   |



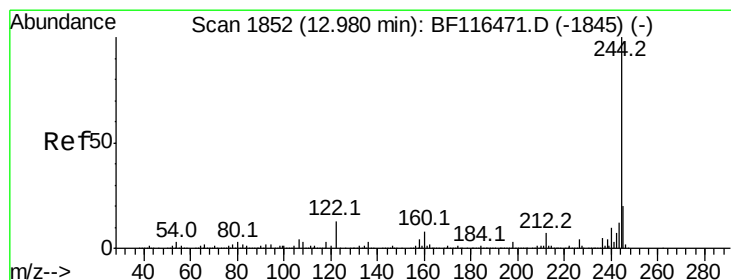
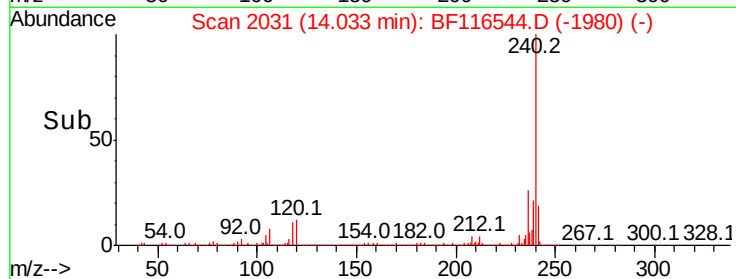
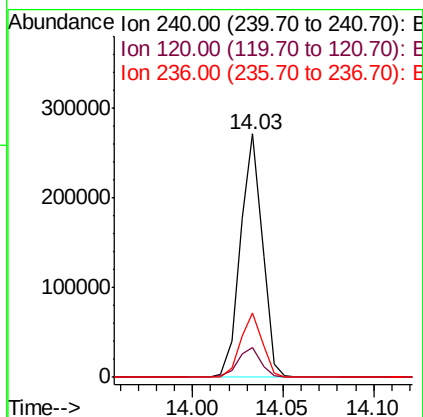
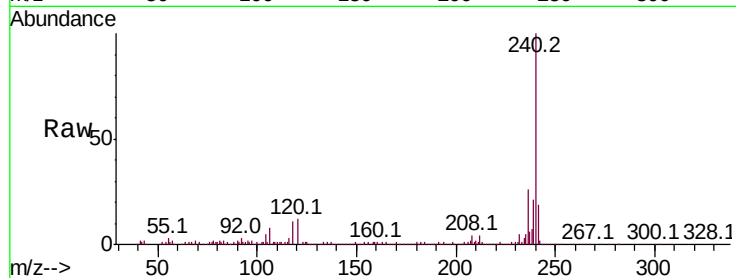




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.00 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

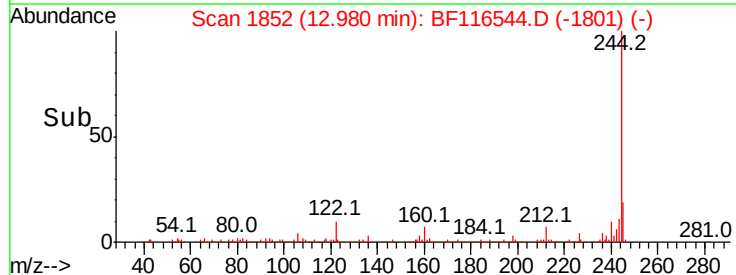
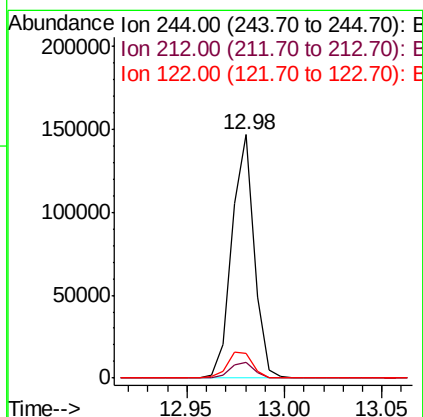
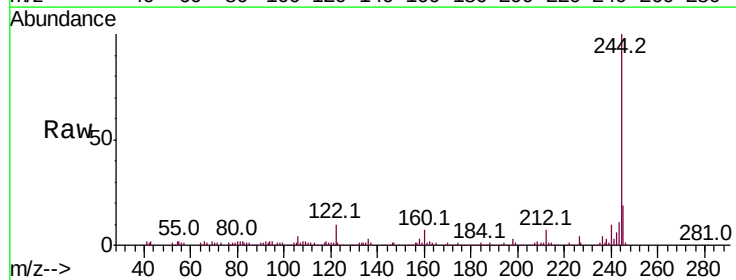
Instrument :  
BNA\_F  
ClientSampleId :

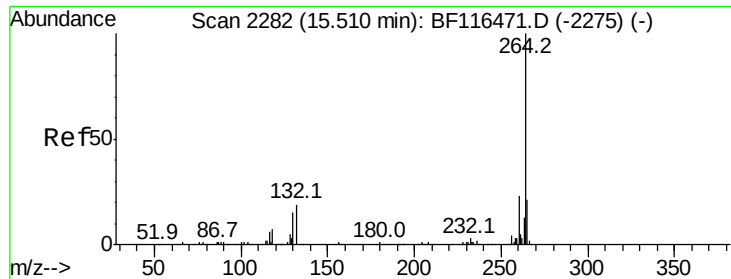
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.1  | 10.5  | 15.7  |
| 236     | 26.3  | 20.2  | 30.2  |



#79  
Terphenyl-d14  
Concen: 9.525 ng  
RT: 12.98 min Scan# 1852  
Delta R.T. -0.00 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.7   | 8.5   |
| 122     | 10.2  | 10.2  | 15.4  |





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2281  
Delta R.T. -0.01 min  
Lab File: BF116544.D  
Acq: 25 Aug 2019 20:45

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.8  | 28.2  |
| 265     | 21.8  | 17.1  | 25.7  |

