

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082019\  
 Data File : BF116441.D  
 Acq On : 20 Aug 2019 20:26  
 Operator : HP/JU  
 Sample : K4387-23  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 21 01:15:35 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 06:03:31 2019  
 Response via : Initial Calibration

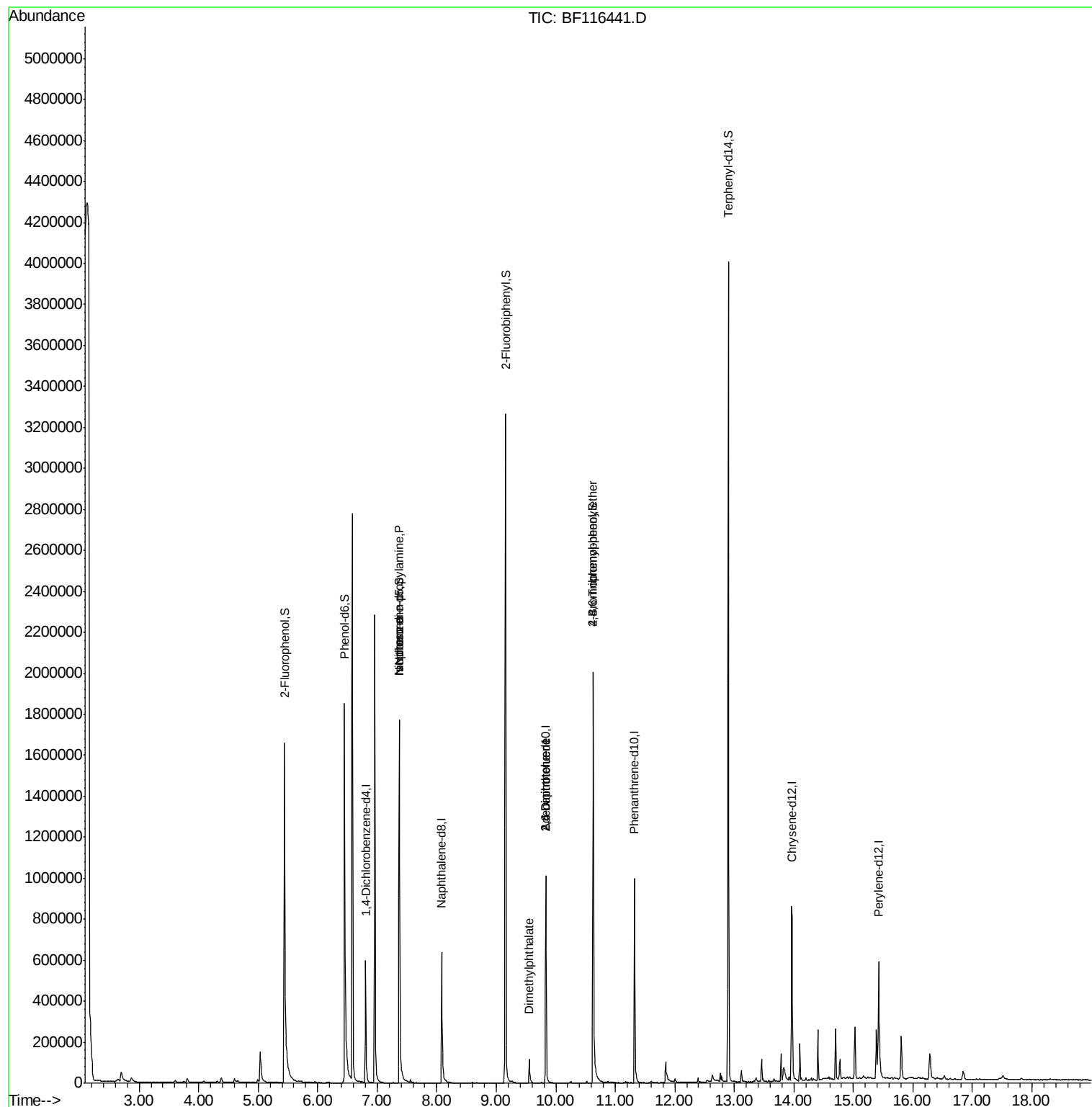
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 95091    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.09  | 136  | 370064   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.83  | 164  | 203104   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.32 | 188  | 385971   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 13.96 | 240  | 332301   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.42 | 264  | 335753   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 718181   | 126.43 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.45  | 99   | 858670   | 119.81 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 645826   | 100.74 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.63 | 330  | 294051   | 149.33 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.16  | 172  | 1098486  | 101.31 | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.90 | 244  | 1441091  | 91.38  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 84105    | 18.938 | ng    | # 79     |
| 25) Isophorone                 | 7.37  | 82   | 645826   | 52.682 | ng    | # 65     |
| 50) Dimethylphthalate          | 9.56  | 163  | 67349    | 4.870  | ng    | # 98     |
| 51) 2,6-Dinitrotoluene         | 9.83  | 165  | 25995    | 8.650  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 25995    | 6.497  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 10.63 | 248  | 17375    | 4.205  | ng    | # 1      |

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

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BNA\_F  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 19 06:03:31 2019  
Response via : Initial Calibration



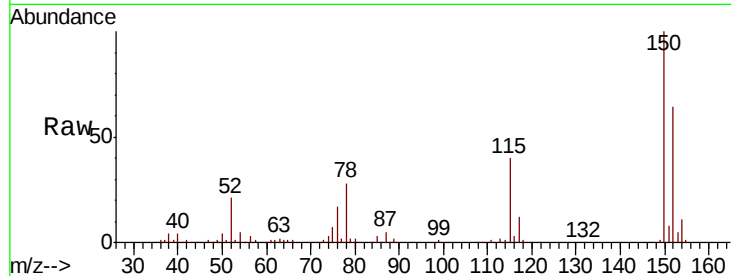


#1

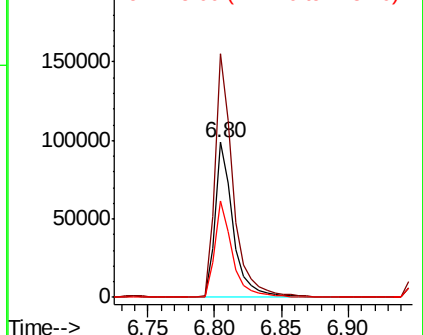
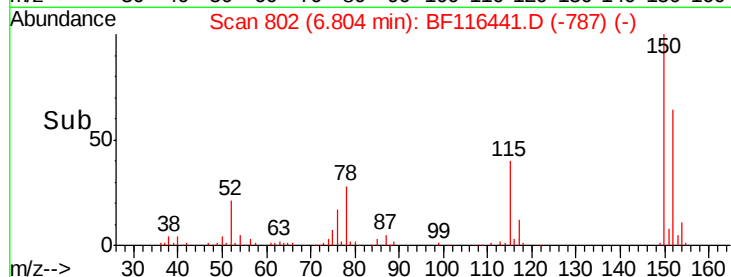
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF116441.D  
Acq: 20 Aug 2019 20:26

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 95091  
Ion Ratio Lower Upper  
152 100  
150 156.8 126.2 189.2  
115 62.5 49.9 74.9



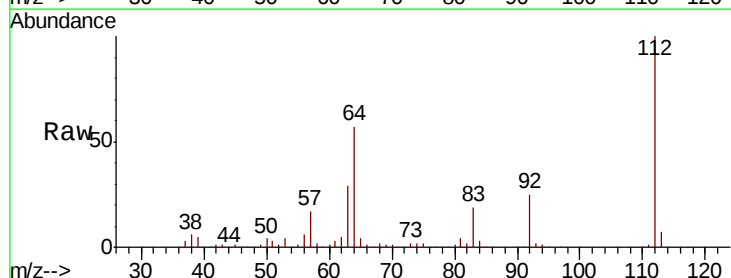
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



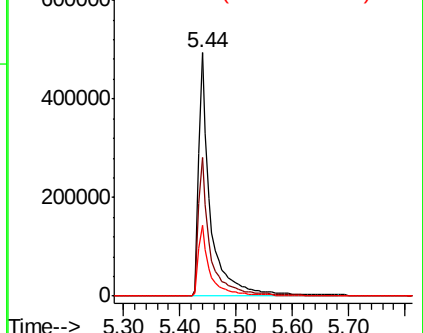
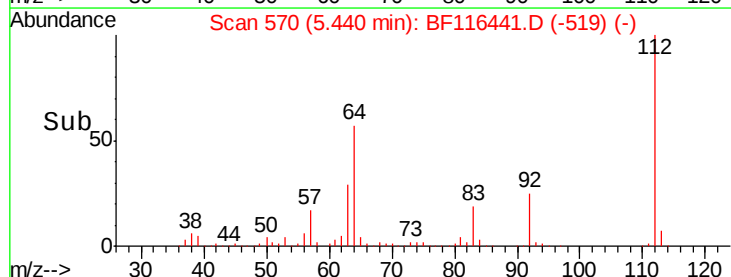
#5

2-Fluorophenol  
Concen: 126.435 ng  
RT: 5.44 min Scan# 570  
Delta R.T. 0.00 min  
Lab File: BF116441.D  
Acq: 20 Aug 2019 20:26

Tgt Ion:112 Resp: 718181  
Ion Ratio Lower Upper  
112 100  
64 56.7 45.4 68.2  
63 28.9 23.7 35.5



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: 119.815 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF116441.D

Acq: 20 Aug 2019 20:26

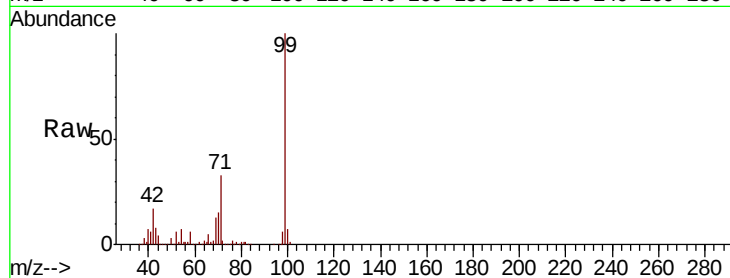
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 858670

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.0  | 13.8  | 20.8  |
| 71  | 33.1  | 27.3  | 40.9  |

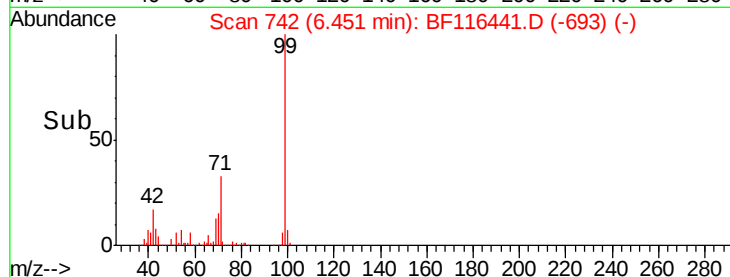
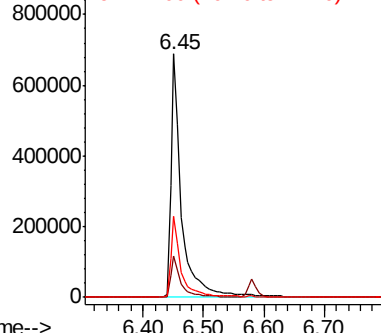


Abundance

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: 18.938 ng

RT: 7.37 min Scan# 898

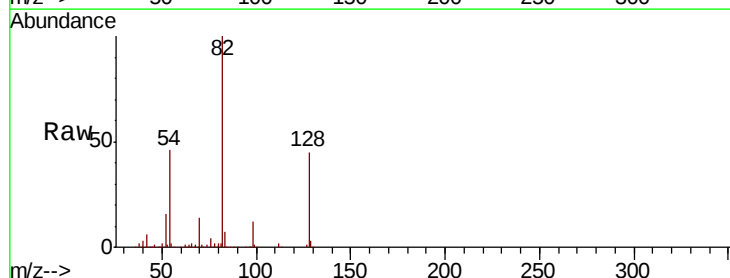
Delta R.T. 0.14 min

Lab File: BF116441.D

Acq: 20 Aug 2019 20:26

Tgt Ion: 70 Resp: 84105

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 42.2  | 40.9  | 61.3  |
| 101 | 0.0   | 7.9   | 11.9# |
| 130 | 2.3   | 16.9  | 25.3# |



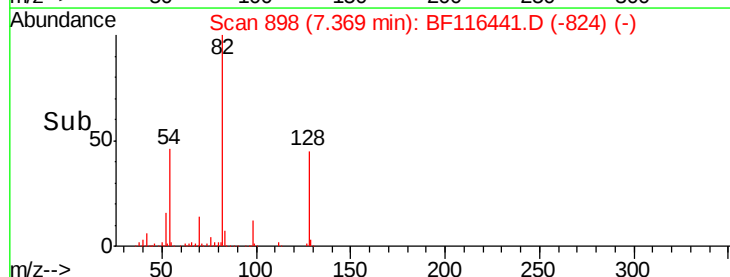
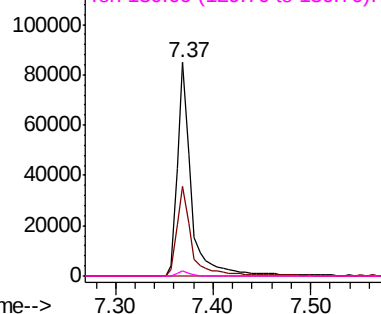
Abundance

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: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF116441.D

Acq: 20 Aug 2019 20:26

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 370064

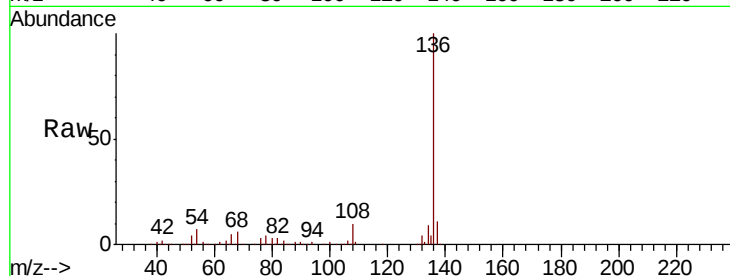
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 6.8 5.8 8.6

68 5.9 5.2 7.8

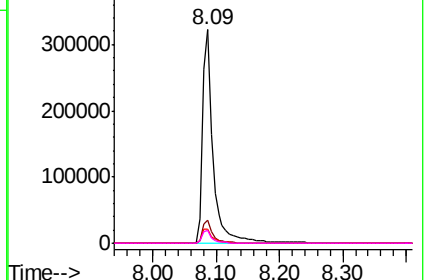
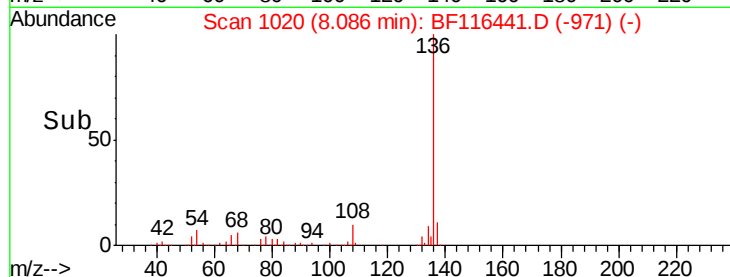


Abundance Ion 136.00 (135.70 to 136.70): E

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: 100.737 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.02 min

Lab File: BF116441.D

Acq: 20 Aug 2019 20:26

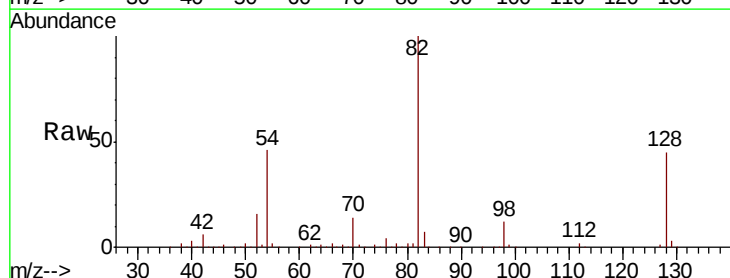
Tgt Ion: 82 Resp: 645826

Ion Ratio Lower Upper

82 100

128 44.9 36.5 54.7

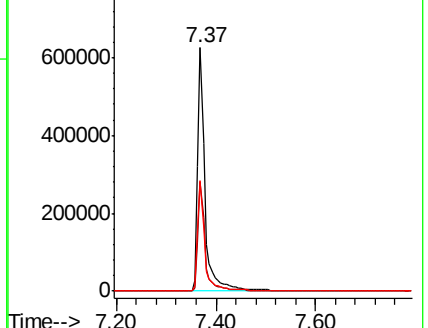
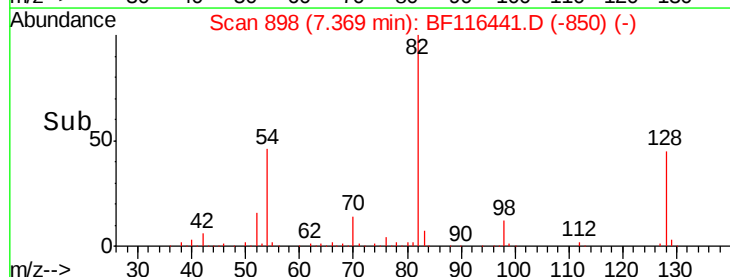
54 45.6 36.0 54.0



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: 52.682 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.27 min

Lab File: BF116441.D

Acq: 20 Aug 2019 20:26

Instrument :

BNA\_F

ClientSampled :

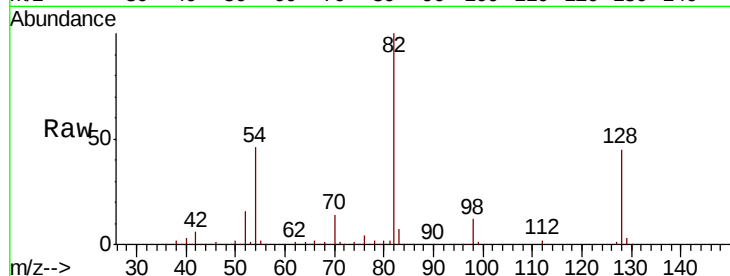
Tot Ion: 82 Resp: 645826

Ion Ratio Lower Upper

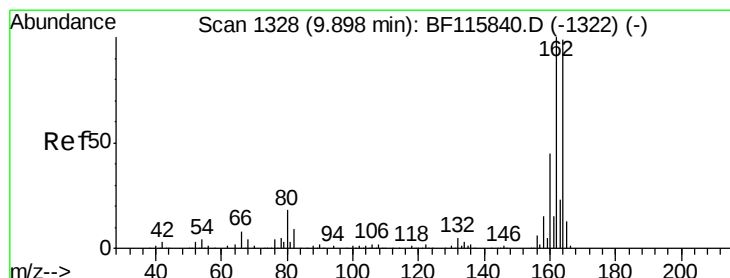
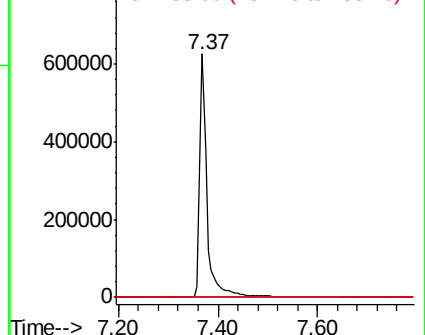
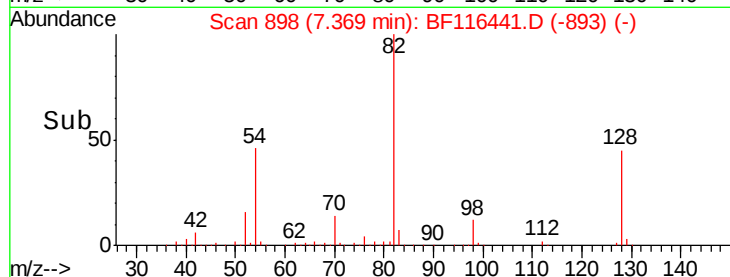
82 100

95 0.0 5.4 8.0#

138 0.0 14.5 21.7#



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: 9.83 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BF116441.D

Acq: 20 Aug 2019 20:26

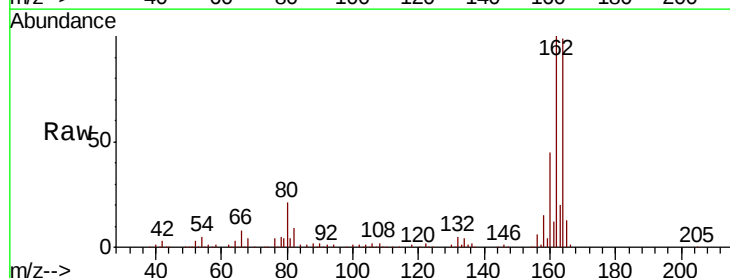
Tgt Ion: 164 Resp: 203104

Ion Ratio Lower Upper

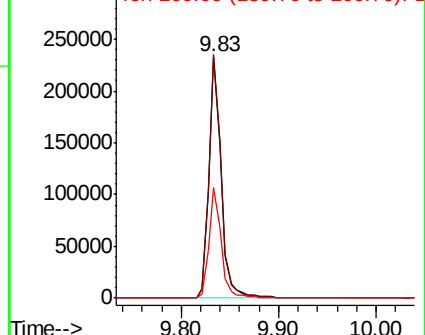
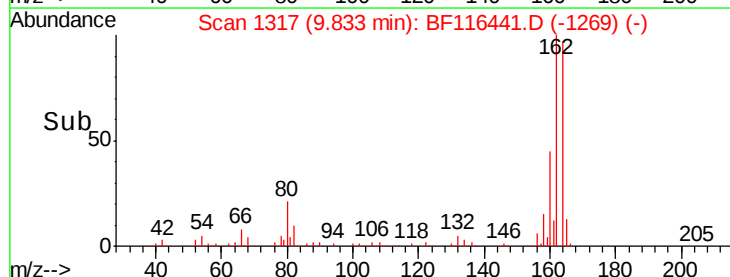
164 100

162 100.7 82.6 124.0

160 45.7 37.6 56.4



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: 149.329 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.02 min

Lab File: BF116441.D

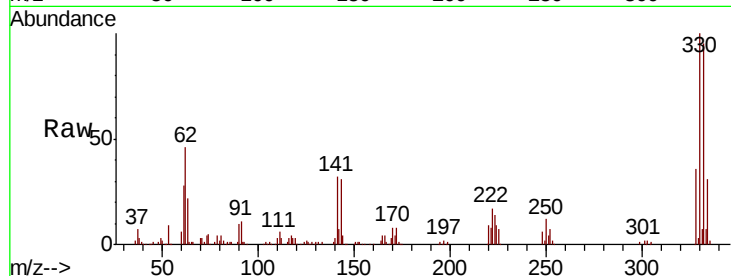
Acq: 20 Aug 2019 20:26

Instrument :

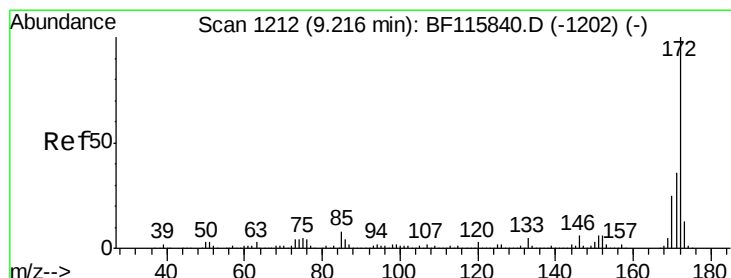
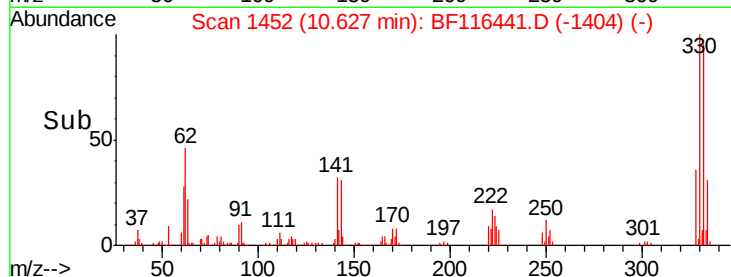
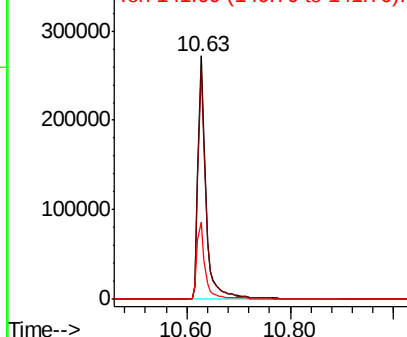
BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 330   | Resp: | 294051 |
| Ion      | Ratio | Lower | Upper  |
| 330      | 100   |       |        |
| 332      | 95.6  | 76.8  | 115.2  |
| 141      | 33.6  | 26.3  | 39.5   |



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: 101.305 ng

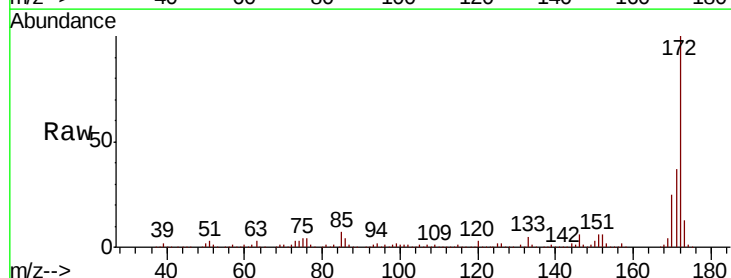
RT: 9.16 min Scan# 1202

Delta R.T. -0.01 min

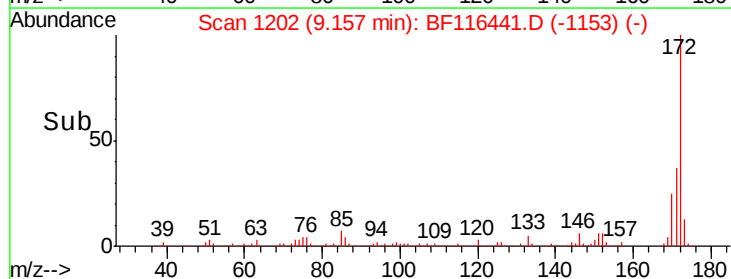
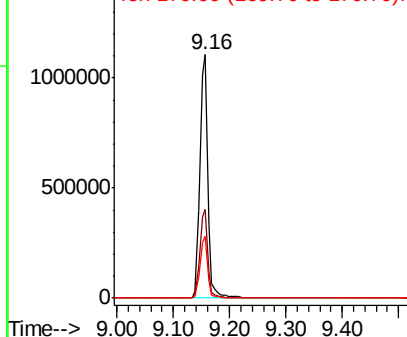
Lab File: BF116441.D

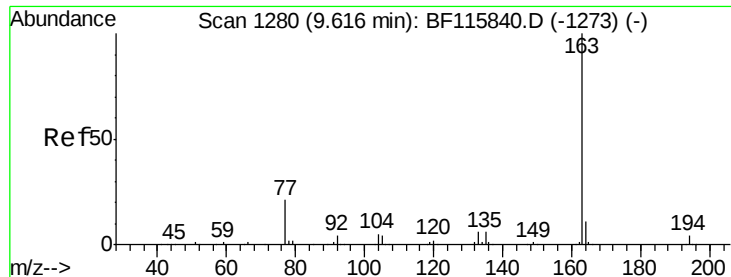
Acq: 20 Aug 2019 20:26

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 172   | Resp: | 1098486 |
| Ion      | Ratio | Lower | Upper   |
| 172      | 100   |       |         |
| 171      | 36.7  | 29.6  | 44.4    |
| 170      | 25.2  | 20.1  | 30.1    |



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

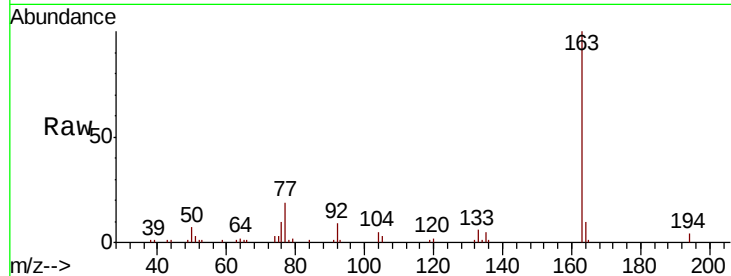




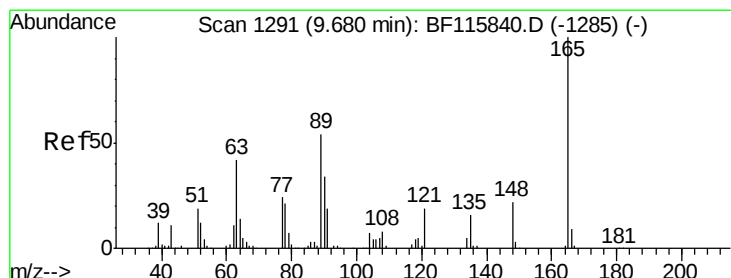
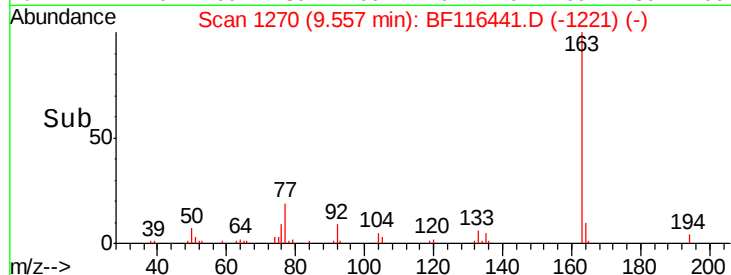
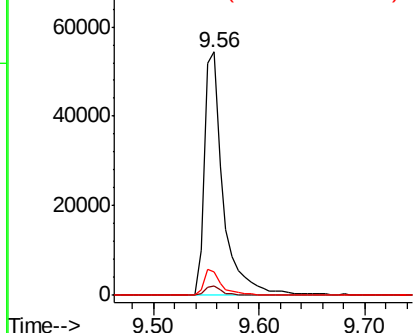
#50  
 Dimethylphthalate  
 Concen: 4.870 ng  
 RT: 9.56 min Scan# 1270  
 Delta R.T. -0.01 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

Instrument :  
 BNA\_F  
 ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:163 | Resp: | 67349    |
| Ion Ratio   | Lower | Upper    |
| 163         | 100   |          |
| 194         | 3.7   | 3.0 4.6  |
| 164         | 9.8   | 8.4 12.6 |

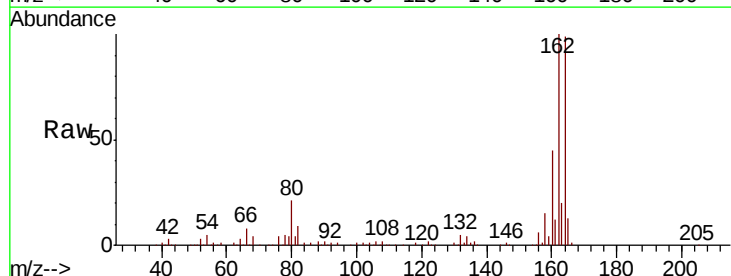


Abundance Ion 163.00 (162.70 to 163.70): E  
 Ion 194.00 (193.70 to 194.70): E  
 Ion 164.00 (163.70 to 164.70): E

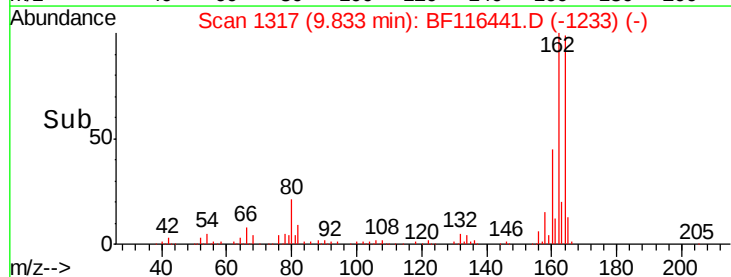
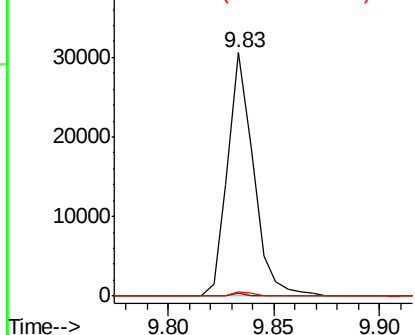


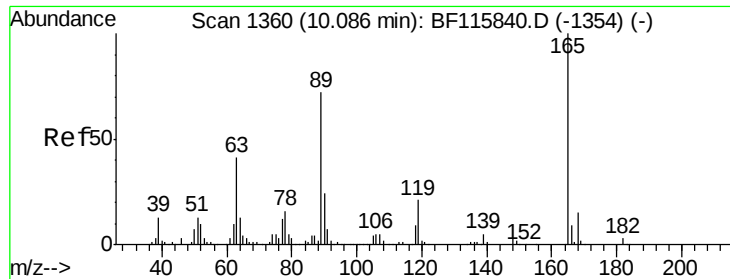
#51  
 2,6-Dinitrotoluene  
 Concen: 8.650 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. 0.19 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 25995      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.2   | 38.2 57.2# |
| 89          | 1.7   | 42.9 64.3# |



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

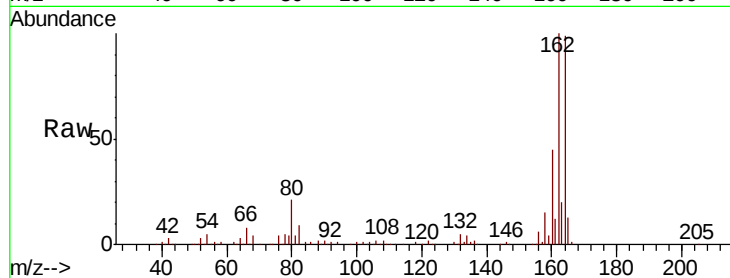




#57  
 2,4-Dinitrotoluene  
 Concen: 6.497 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. -0.22 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 39.6  | 59.4# |
| 89      | 1.7   | 62.2  | 93.2# |
| 182     | 0.0   | 2.1   | 3.1#  |

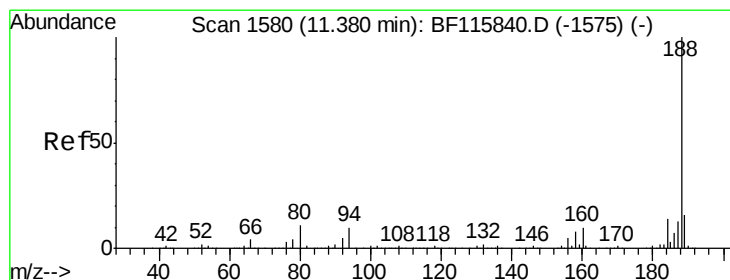
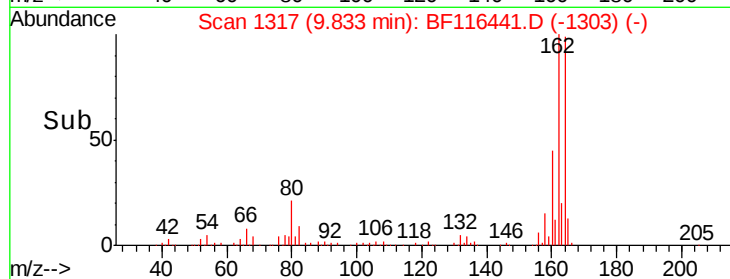
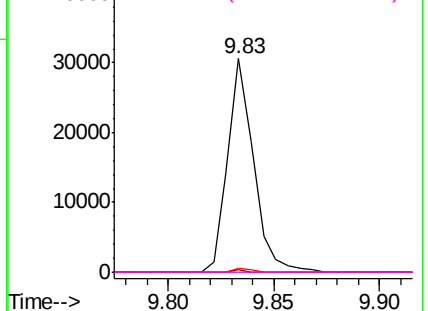


Abundance Ion 165.00 (164.70 to 165.70): E

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



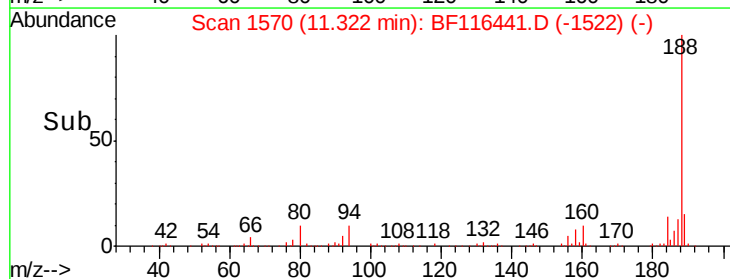
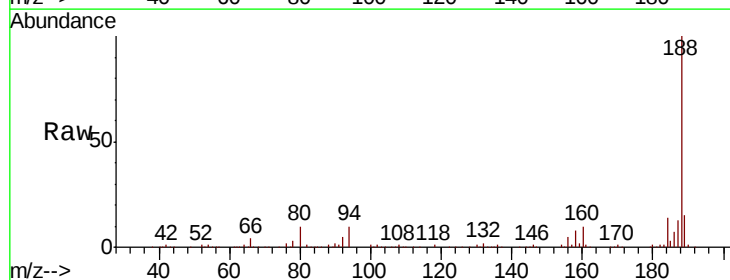
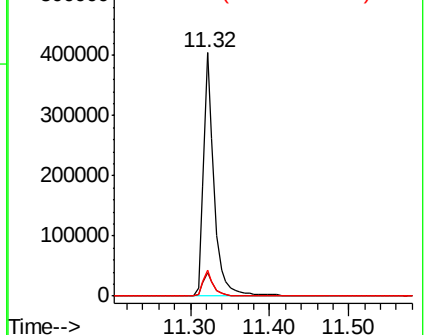
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1570  
 Delta R.T. -0.02 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

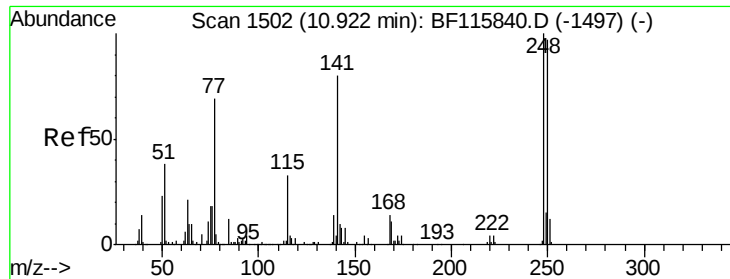
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 8.1   | 12.1  |
| 80      | 10.5  | 8.7   | 13.1  |

Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

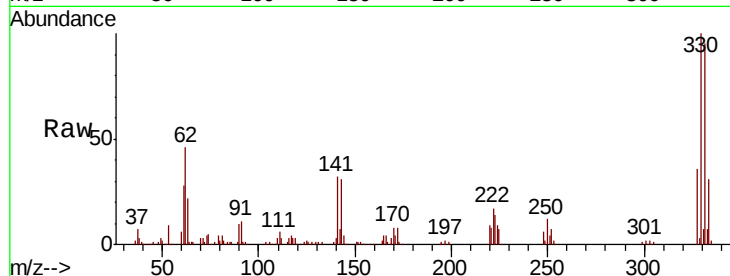




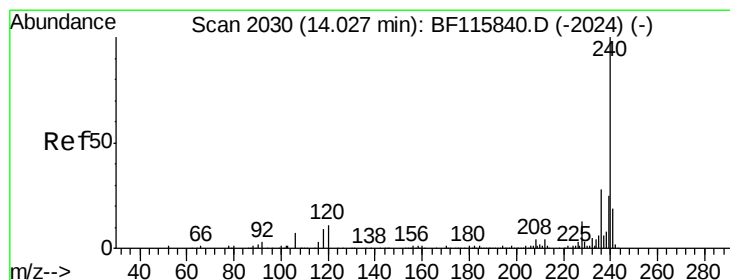
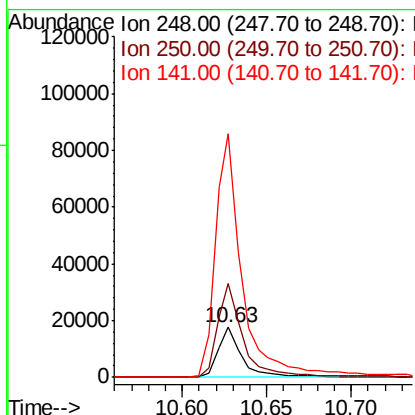
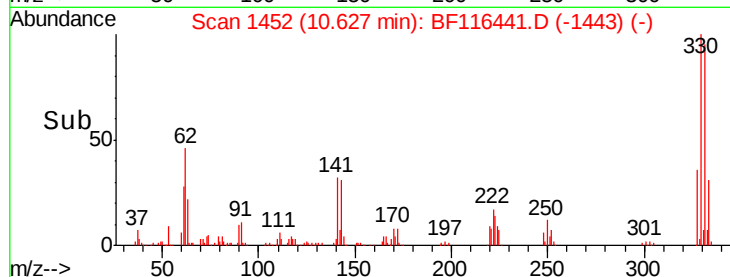
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.205 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.25 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 17375  
 Ion Ratio Lower Upper  
 248 100  
 250 188.4 77.4 116.2#  
 141 488.8 56.8 85.2#

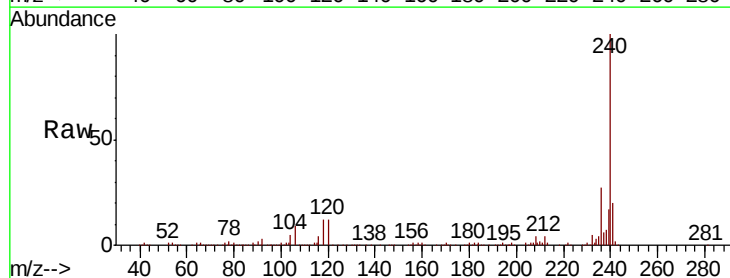


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

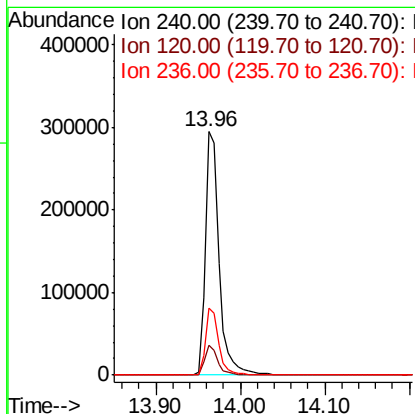
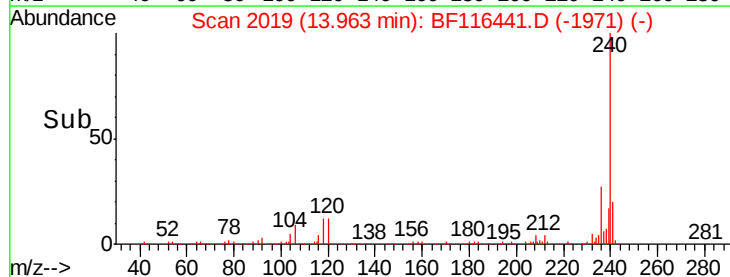


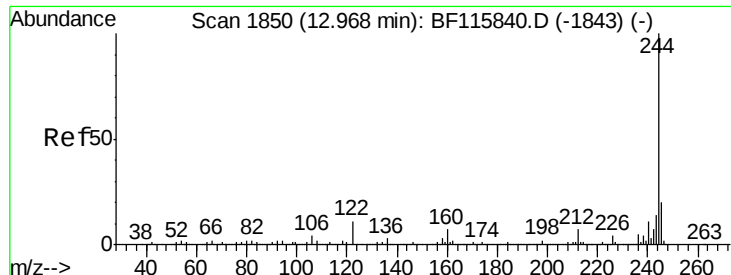
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.96 min Scan# 2019  
 Delta R.T. -0.02 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

Tgt Ion:240 Resp: 332301  
 Ion Ratio Lower Upper  
 240 100  
 120 12.3 10.7 16.1  
 236 27.5 22.2 33.2



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

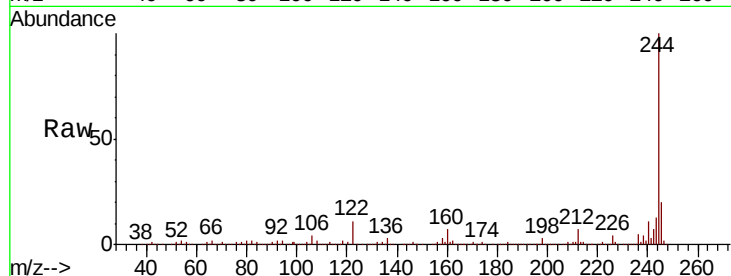




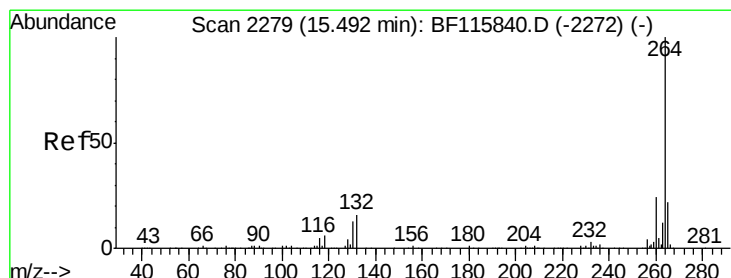
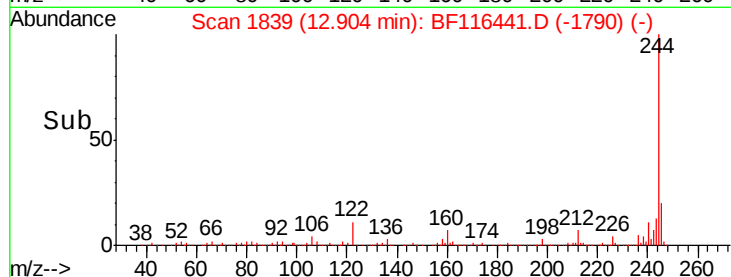
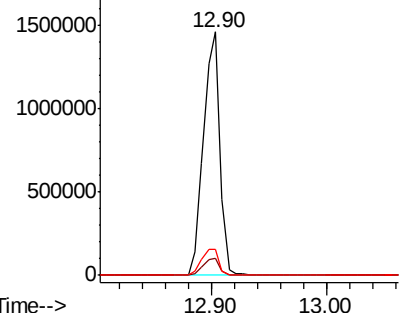
#79  
 Terphenyl-d14  
 Concen: 91.382 ng  
 RT: 12.90 min Scan# 1839  
 Delta R.T. -0.01 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 1441091  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.8 8.8  
 122 10.9 9.0 13.4

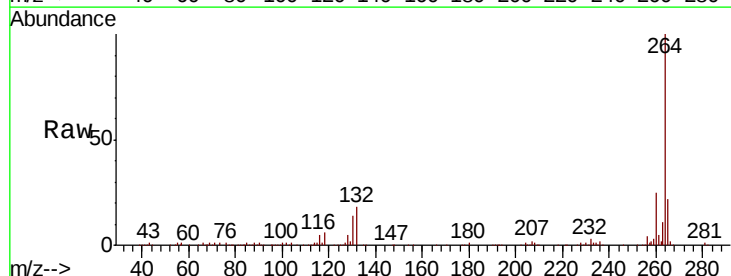


Abundance Ion 244.00 (243.70 to 244.70): E  
 2000000 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.42 min Scan# 2267  
 Delta R.T. -0.02 min  
 Lab File: BF116441.D  
 Acq: 20 Aug 2019 20:26

Tgt Ion:264 Resp: 335753  
 Ion Ratio Lower Upper  
 264 100  
 260 24.7 19.7 29.5  
 265 22.2 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E  
 300000 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

