

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN040319\  
 Data File : BN005091.D  
 Acq On : 04 Apr 2019 12:49  
 Operator : JU/SJ  
 Sample : K2224-05  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Apr 04 15:04:24 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-BN032619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 04 14:56:07 2019  
 Response via : Initial Calibration

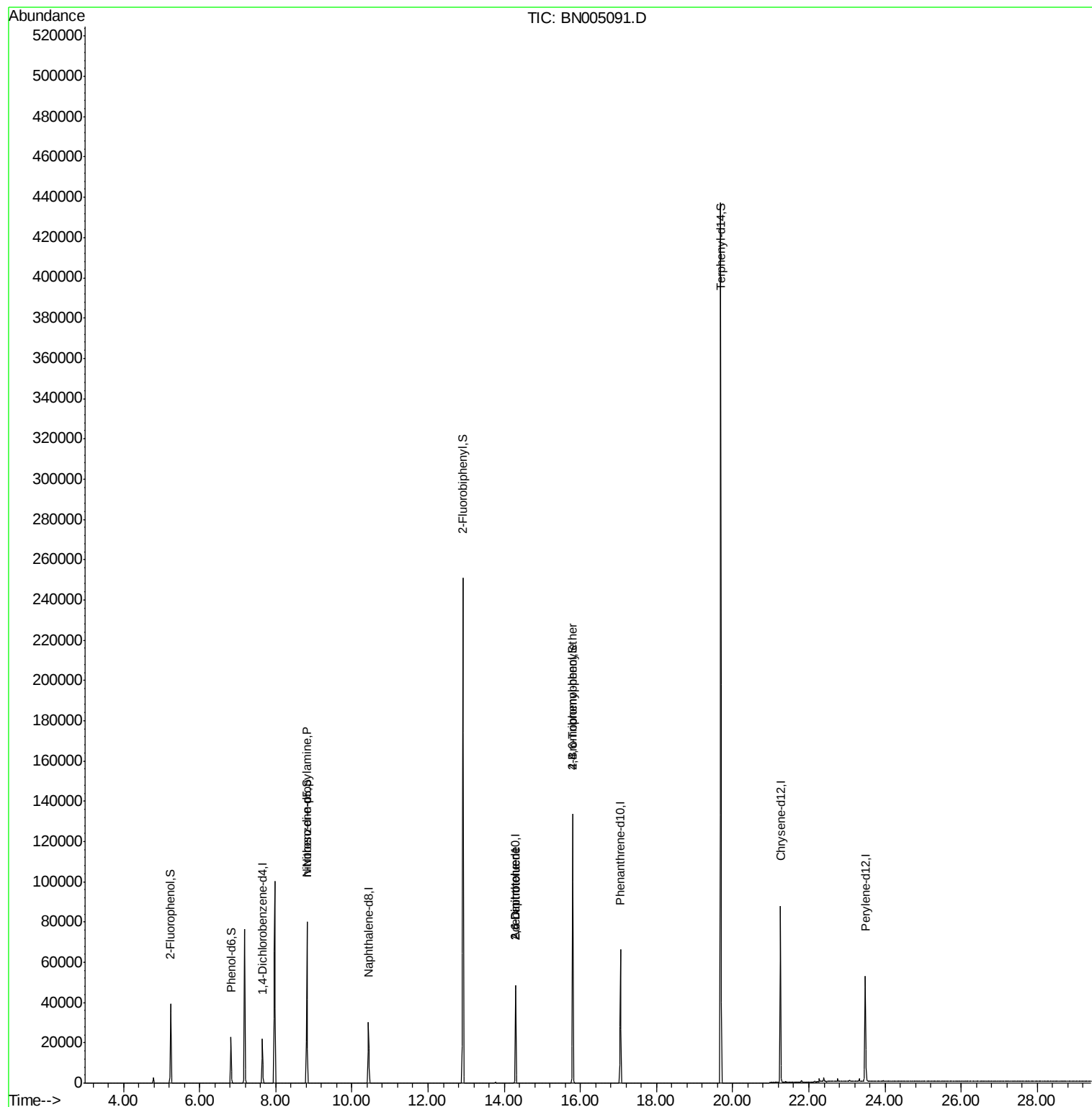
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.65  | 152  | 7021     | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.43 | 136  | 29172    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.30 | 164  | 17862    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.05 | 188  | 41923    | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.25 | 240  | 44648    | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 23.48 | 264  | 41729    | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.24  | 112  | 19406    | 47.79  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.82  | 99   | 15420    | 28.63  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.82  | 82   | 47074    | 97.61  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 15.80 | 330  | 30606    | 106.24 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 12.92 | 172  | 131199   | 97.33  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.69 | 244  | 225599   | 97.28  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 8.82  | 70   | 6035     | 17.091 | ng    | # 74     |
| 51) 2,6-Dinitrotoluene         | 14.30 | 165  | 2165     | 6.483  | ng    | # 32     |
| 57) 2,4-Dinitrotoluene         | 14.30 | 165  | 2165     | 4.771  | ng    | # 28     |
| 67) 4-Bromophenyl-phenylether  | 15.80 | 248  | 1698     | 3.246  | ng    | # 1      |

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

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Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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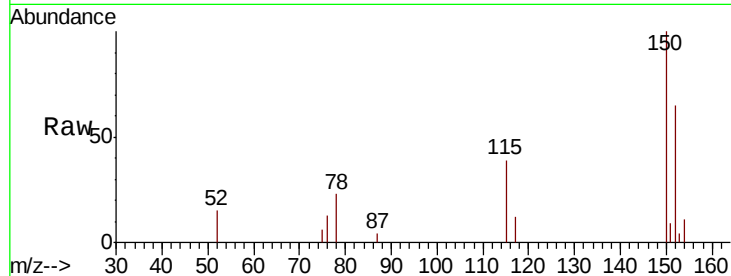


#1

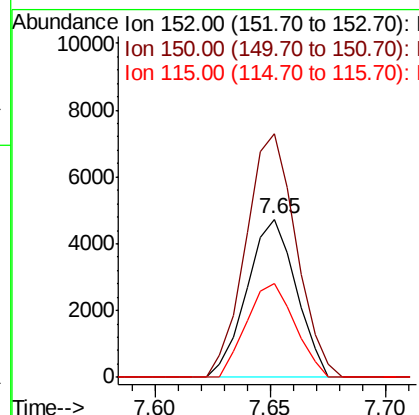
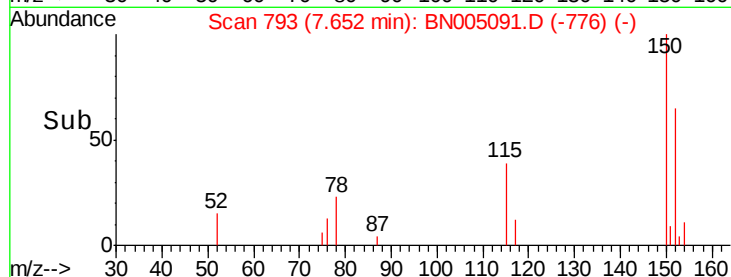
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.65 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: BN005091.D  
Acq: 04 Apr 2019 12:49

Instrument :  
BNA\_N  
ClientSampled :

Tot Ion:152 Resp: 7021  
Ion Ratio Lower Upper  
152 100  
150 153.7 125.8 188.6  
115 59.4 47.9 71.9



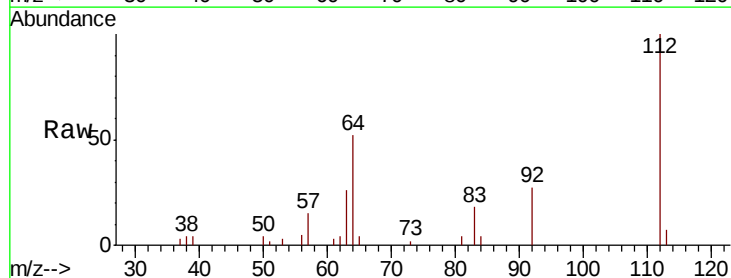
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



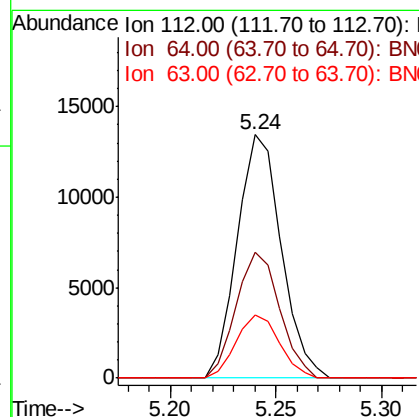
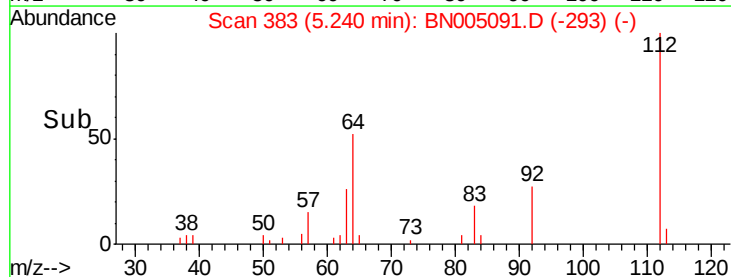
#5

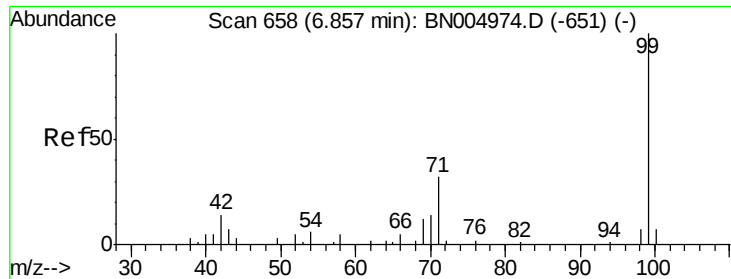
2-Fluorophenol  
Concen: 47.787 ng  
RT: 5.24 min Scan# 383  
Delta R.T. 0.00 min  
Lab File: BN005091.D  
Acq: 04 Apr 2019 12:49

Tgt Ion:112 Resp: 19406  
Ion Ratio Lower Upper  
112 100  
64 51.8 41.2 61.8  
63 26.0 20.7 31.1



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





#7

Phenol-d6

Concen: 28.629 ng

RT: 6.82 min Scan# 652

Delta R.T. -0.01 min

Lab File: BN005091.D

Acq: 04 Apr 2019 12:49

Instrument :

BNA\_N

ClientSampled :

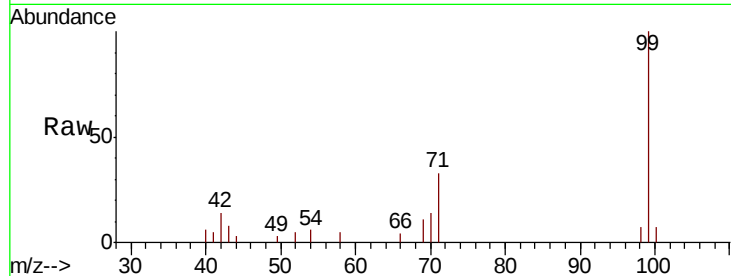
Tot Ion: 99 Resp: 15420

Ion Ratio Lower Upper

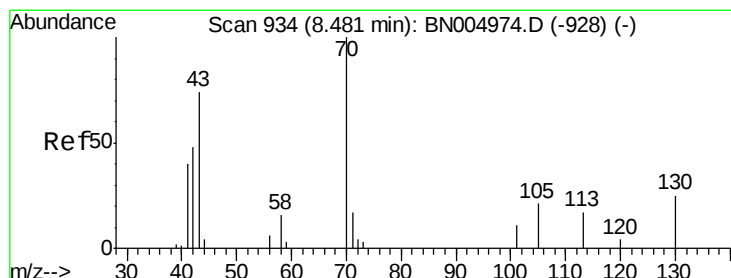
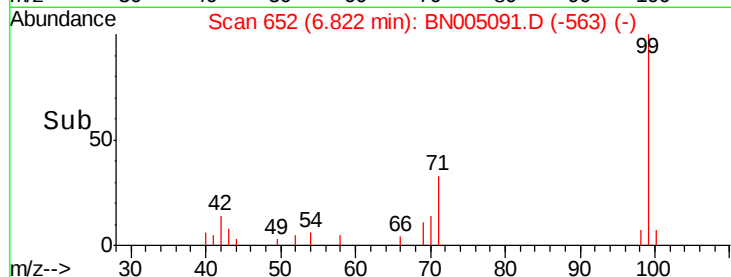
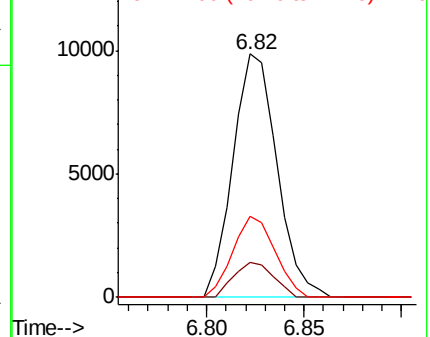
99 100

42 14.1 11.0 16.4

71 33.3 25.8 38.8



Abundance Ion 99.00 (98.70 to 99.70): BN0  
Ion 42.00 (41.70 to 42.70): BN0  
Ion 71.00 (70.70 to 71.70): BN0



#19

n-Nitroso-di-n-propylamine

Concen: 17.091 ng

RT: 8.82 min Scan# 991

Delta R.T. 0.36 min

Lab File: BN005091.D

Acq: 04 Apr 2019 12:49

Tgt Ion: 70 Resp: 6035

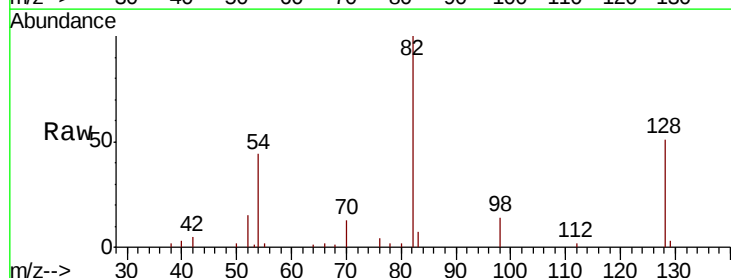
Ion Ratio Lower Upper

70 100

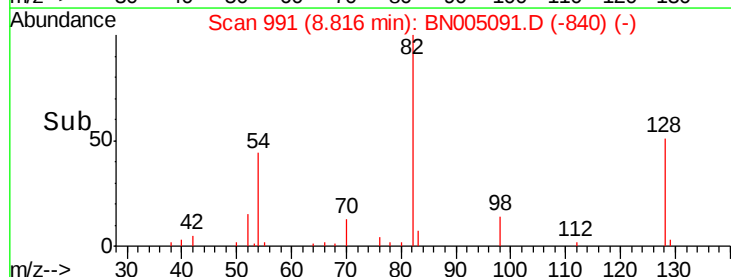
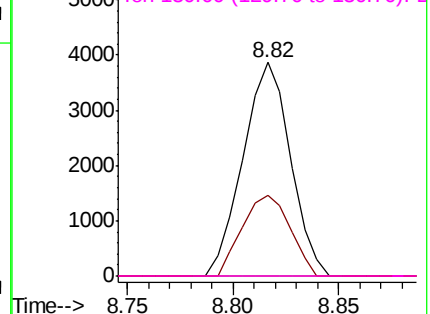
42 37.7 36.7 55.1

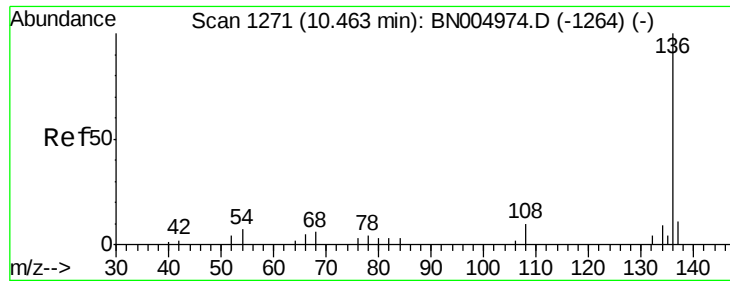
101 0.0 8.7 13.1#

130 0.0 20.2 30.2#



Abundance Ion 70.00 (69.70 to 70.70): BN0  
Ion 42.00 (41.70 to 42.70): BN0  
Ion 101.00 (100.70 to 101.70): BN0  
Ion 130.00 (129.70 to 130.70): BN0

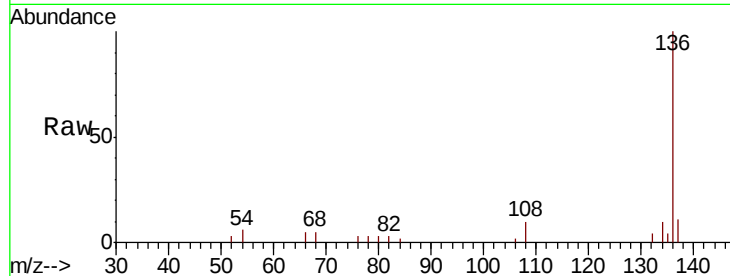




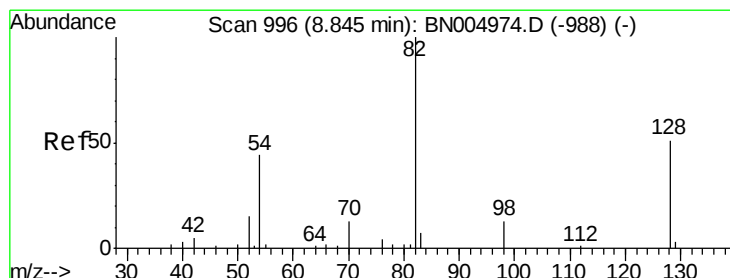
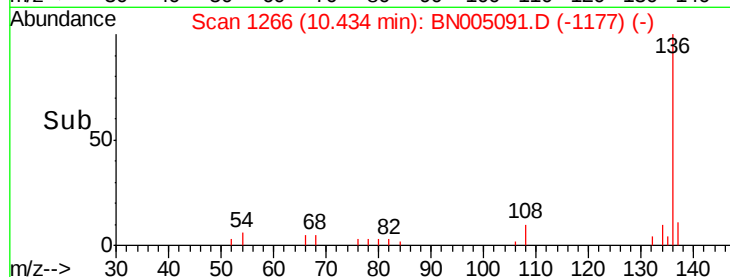
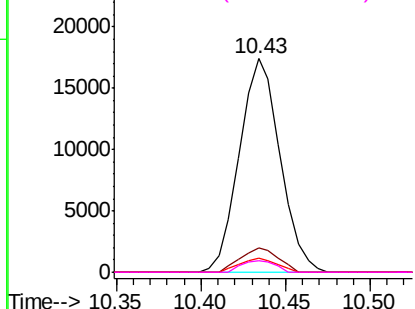
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.43 min Scan# 1266  
Delta R.T. -0.01 min  
Lab File: BN005091.D  
Acq: 04 Apr 2019 12:49

Instrument :  
BNA\_N  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 29172       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.2  | 8.6 12.8    |
| 54          | 6.5   | 5.0 7.4     |
| 68          | 5.2   | 4.2 6.4     |

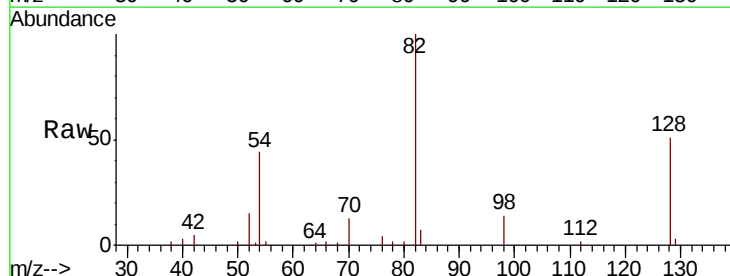


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BNC  
Ion 68.00 (67.70 to 68.70): BNC

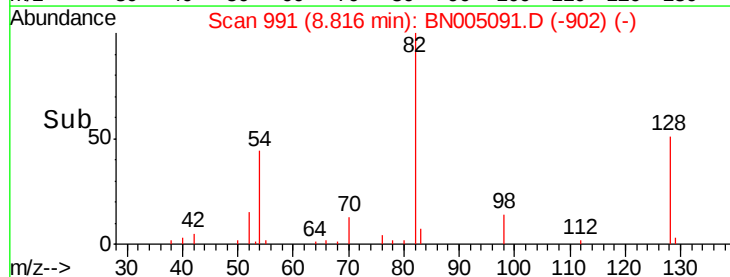
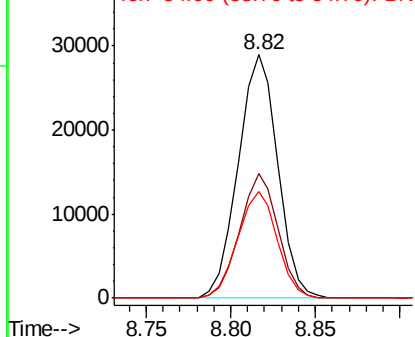


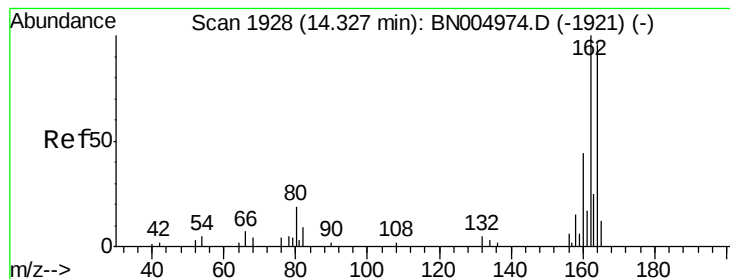
#23  
Nitrobenzene-d5  
Concen: 97.613 ng  
RT: 8.82 min Scan# 991  
Delta R.T. -0.01 min  
Lab File: BN005091.D  
Acq: 04 Apr 2019 12:49

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 47074       |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 51.2  | 40.6 60.8   |
| 54          | 43.6  | 34.4 51.6   |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.30 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN005091.D

Acq: 04 Apr 2019 12:49

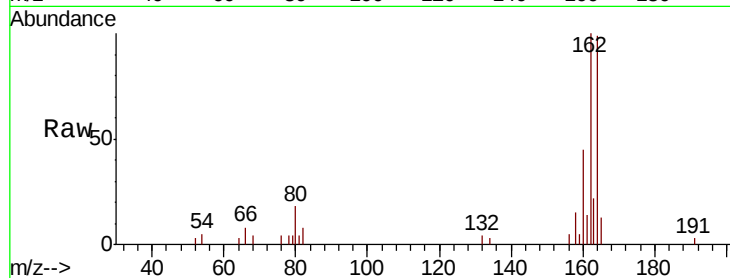
Instrument :

BNA\_N

ClientSampleId :

Tot Ion:164 Resp: 17862

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.3 | 83.8  | 125.6 |
| 160 | 45.4  | 36.0  | 54.0  |

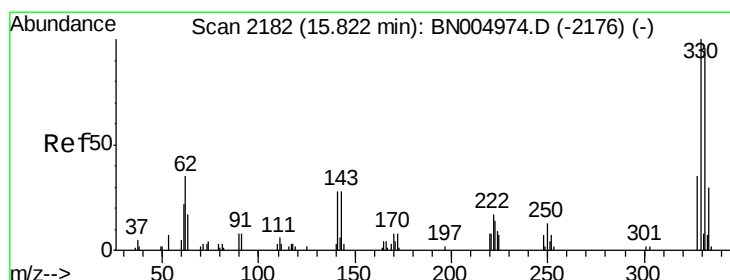
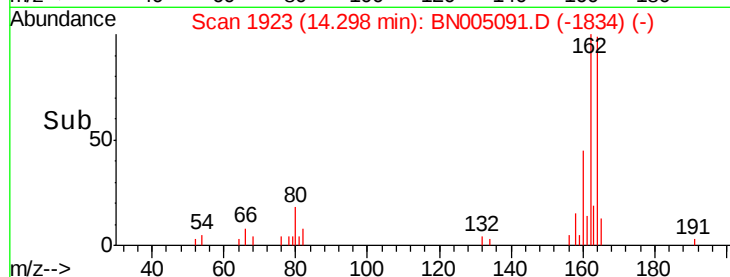
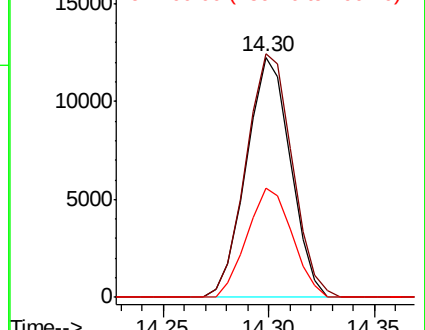


Abundance

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: 106.241 ng

RT: 15.80 min Scan# 2178

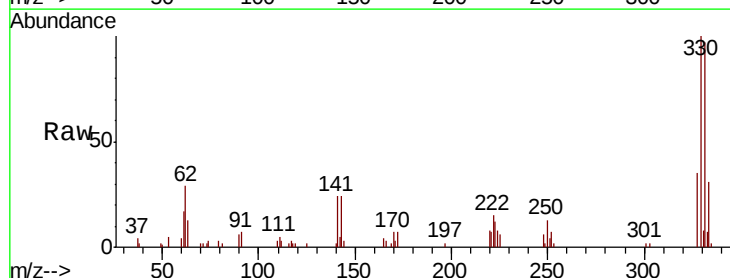
Delta R.T. -0.01 min

Lab File: BN005091.D

Acq: 04 Apr 2019 12:49

Tgt Ion:330 Resp: 30606

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.6  | 77.4  | 116.2 |
| 141 | 25.1  | 20.3  | 30.5  |

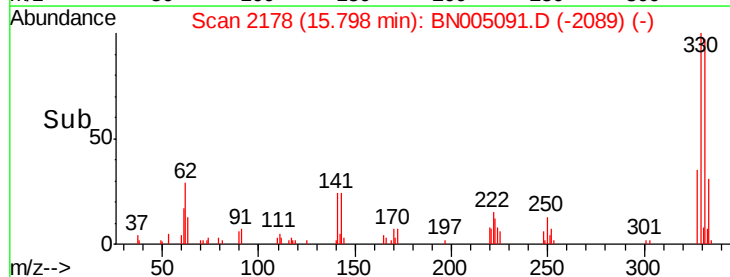
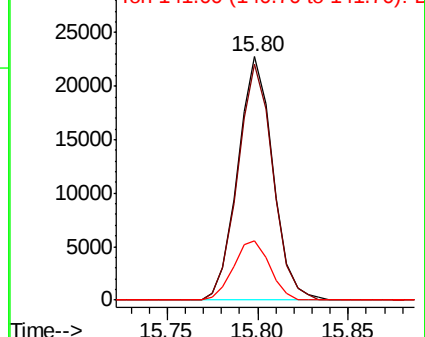


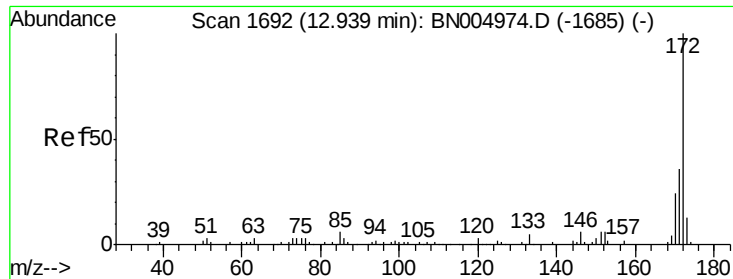
Abundance

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

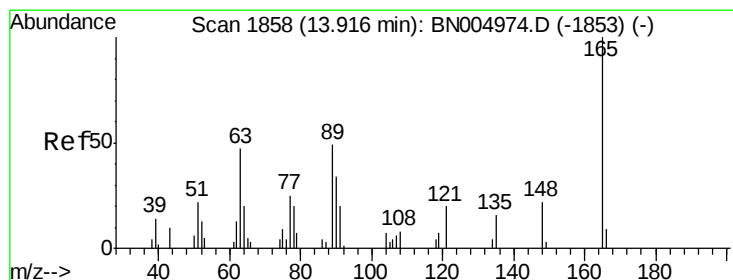
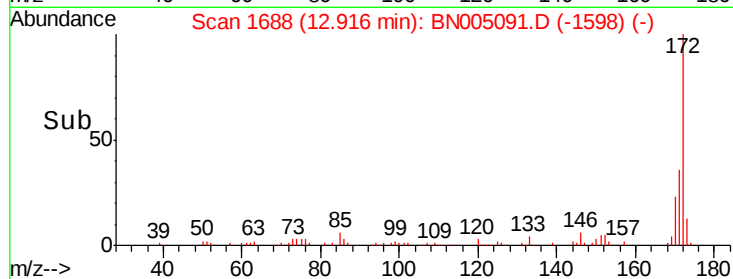
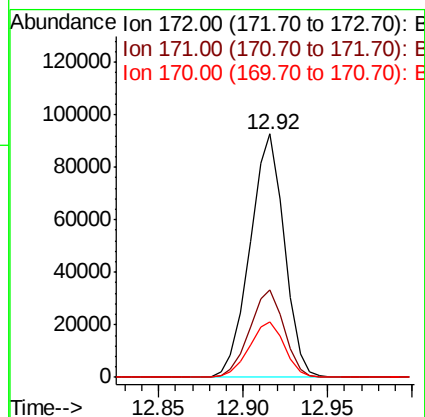
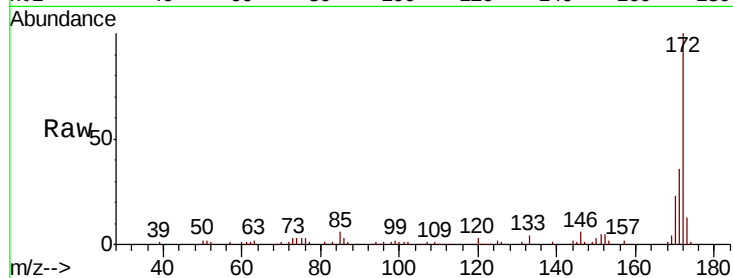




#45  
 2-Fluorobiphenyl  
 Concen: 97.332 ng  
 RT: 12.92 min Scan# 1688  
 Delta R.T. -0.00 min  
 Lab File: BN005091.D  
 Acq: 04 Apr 2019 12:49

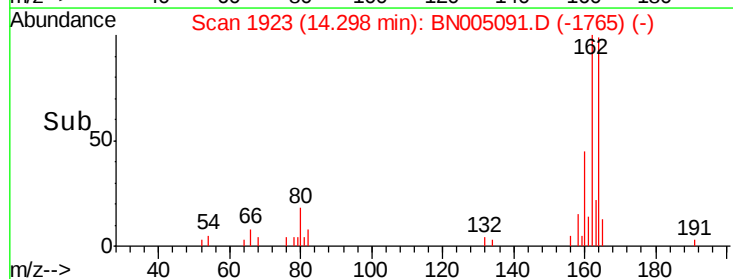
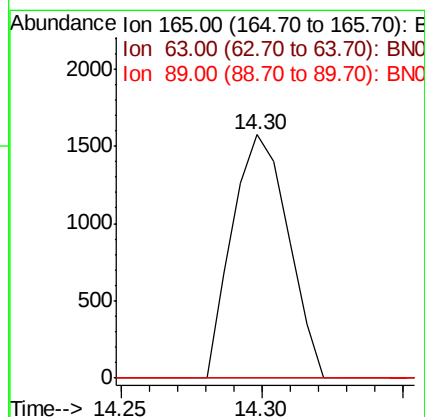
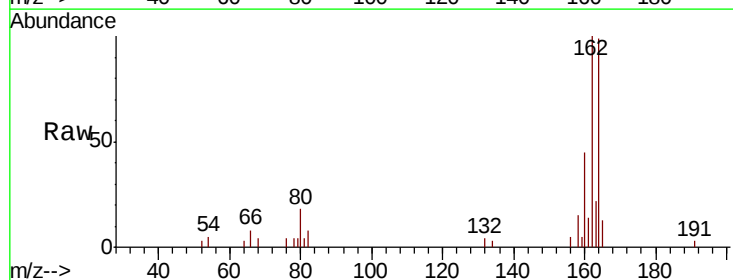
Instrument :  
 BNA\_N  
 ClientSampleId :

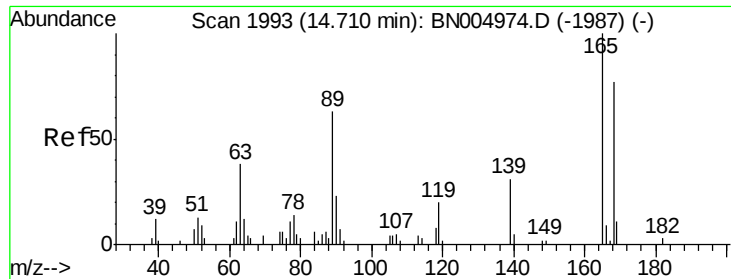
Tot Ion:172 Resp: 131199  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 28.7 43.1  
 170 23.0 18.8 28.2



#51  
 2,6-Dinitrotoluene  
 Concen: 6.483 ng  
 RT: 14.30 min Scan# 1923  
 Delta R.T. 0.40 min  
 Lab File: BN005091.D  
 Acq: 04 Apr 2019 12:49

Tgt Ion:165 Resp: 2165  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 34.2 51.4#  
 89 0.0 36.9 55.3#

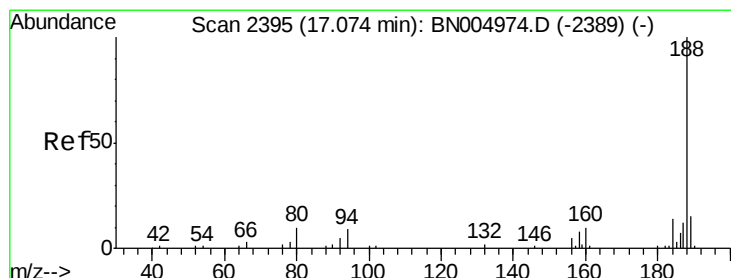
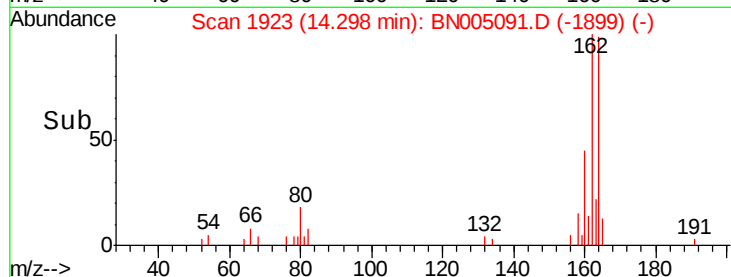
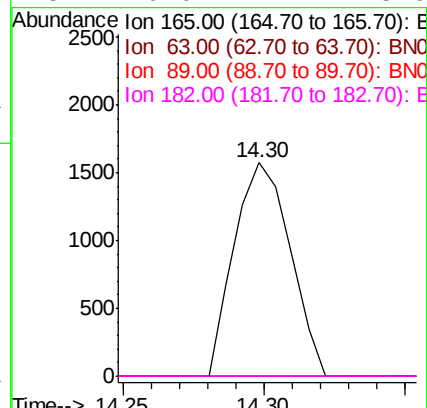
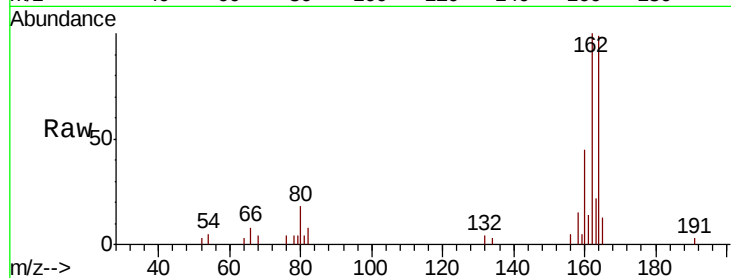




#57  
 2,4-Dinitrotoluene  
 Concen: 4.771 ng  
 RT: 14.30 min Scan# 1923  
 Delta R.T. -0.39 min  
 Lab File: BN005091.D  
 Acq: 04 Apr 2019 12:49

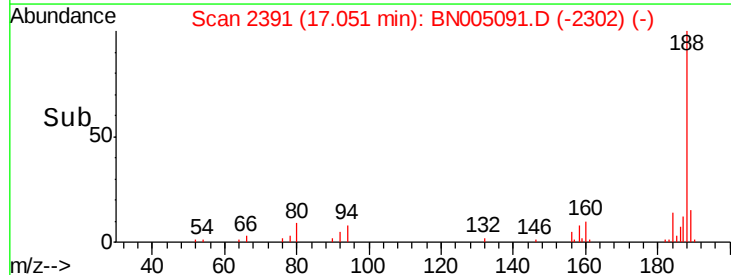
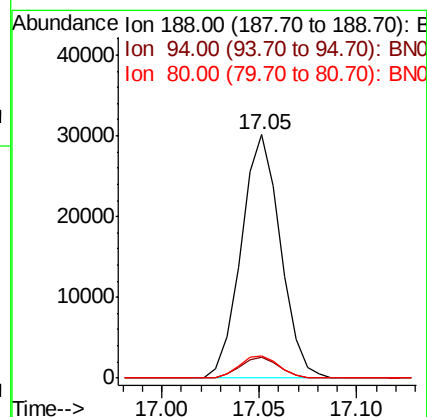
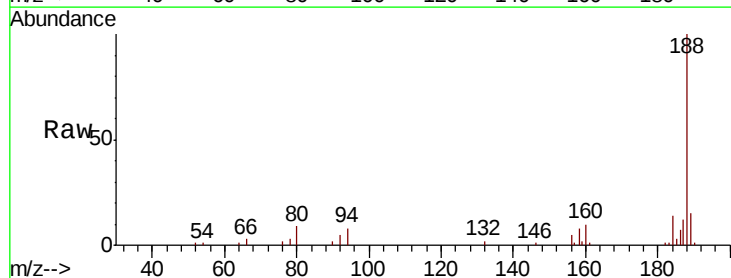
Instrument :  
 BNA\_N  
 ClientSampled :

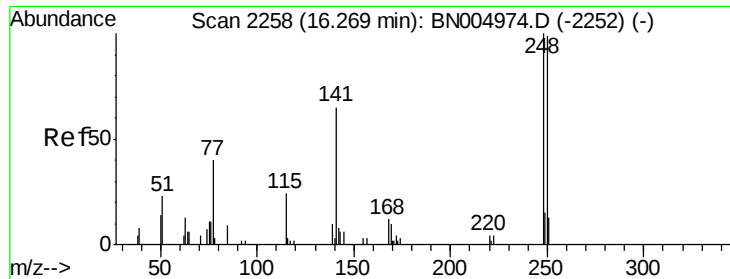
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 29.6  | 44.4# |
| 89      | 0.0   | 49.7  | 74.5# |
| 182     | 0.0   | 2.4   | 3.6#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.05 min Scan# 2391  
 Delta R.T. -0.01 min  
 Lab File: BN005091.D  
 Acq: 04 Apr 2019 12:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.4   | 6.6   | 10.0  |
| 80      | 9.1   | 7.1   | 10.7  |

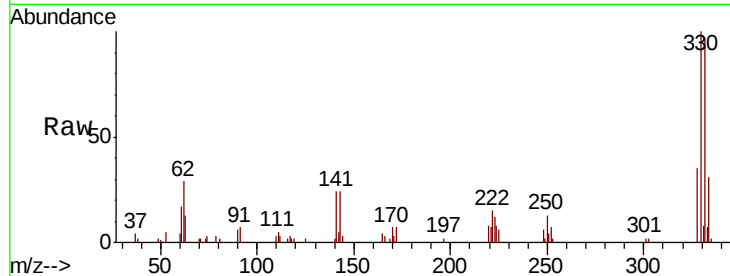




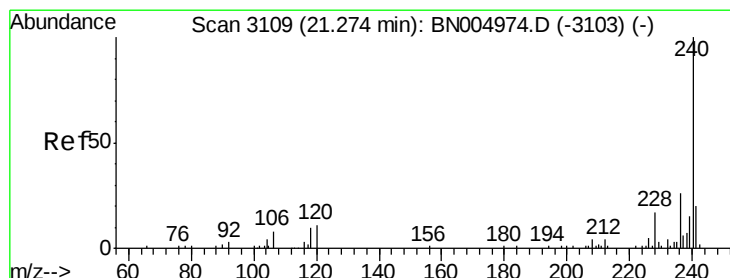
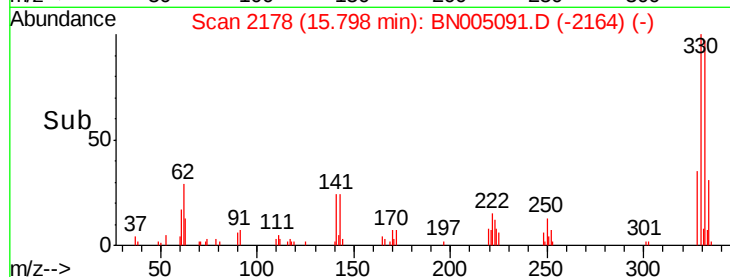
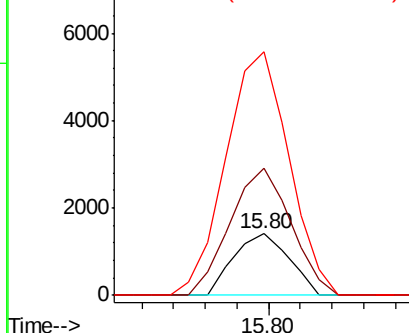
#67  
4-Bromophenyl-phenylether  
Concen: 3.246 ng  
RT: 15.80 min Scan# 2178  
Delta R.T. -0.45 min  
Lab File: BN005091.D  
Acq: 04 Apr 2019 12:49

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:248 Resp: 1698  
Ion Ratio Lower Upper  
248 100  
250 207.6 80.2 120.2#  
141 397.5 54.6 82.0#

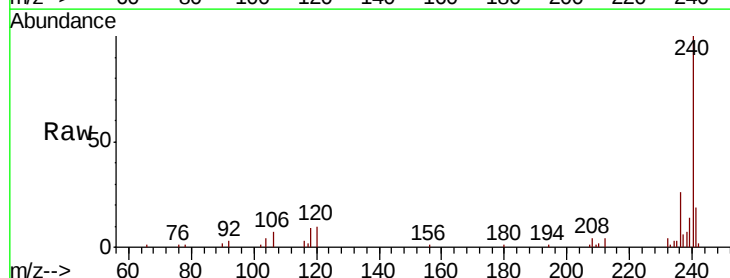


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

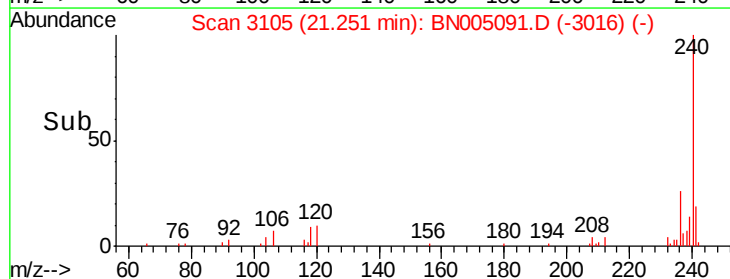
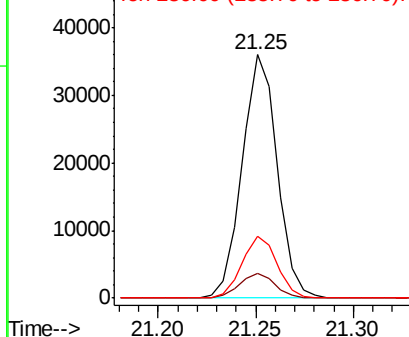


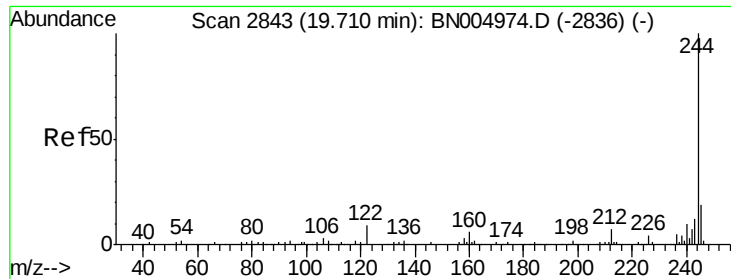
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.25 min Scan# 3105  
Delta R.T. -0.01 min  
Lab File: BN005091.D  
Acq: 04 Apr 2019 12:49

Tgt Ion:240 Resp: 44648  
Ion Ratio Lower Upper  
240 100  
120 10.3 8.1 12.1  
236 25.6 20.4 30.6



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: 97.279 ng

RT: 19.69 min Scan# 2839

Delta R.T. -0.01 min

Lab File: BN005091.D

Acq: 04 Apr 2019 12:49

Instrument :

BNA\_N

ClientSampleId :

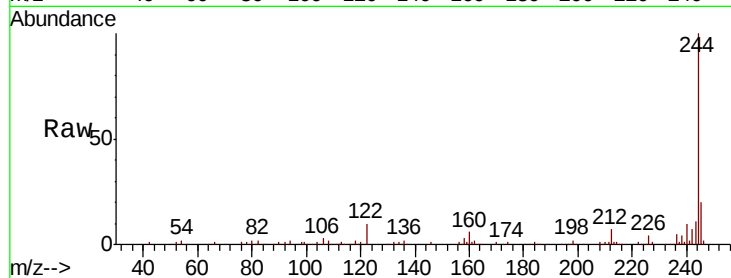
Tot Ion:244 Resp: 225599

Ion Ratio Lower Upper

244 100

212 6.7 5.3 7.9

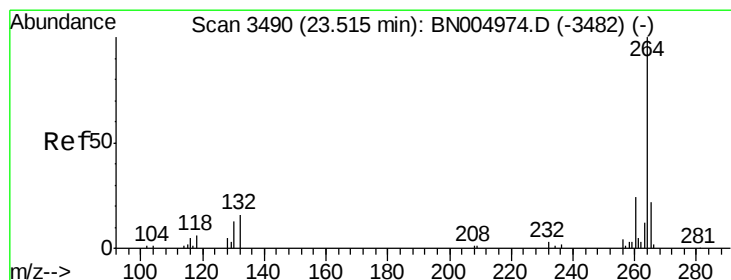
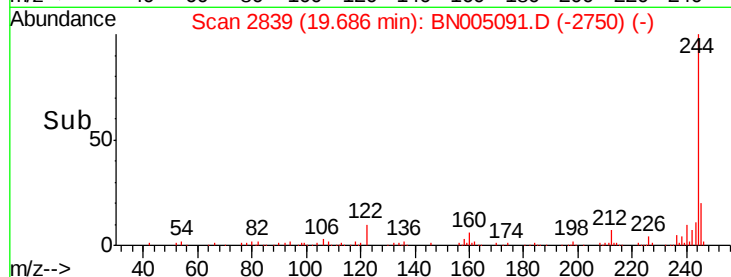
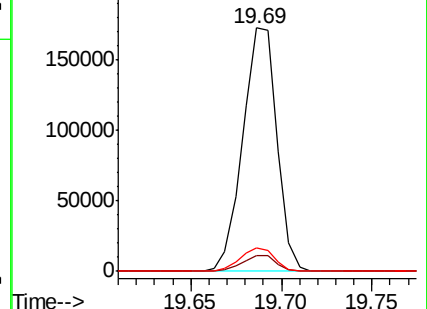
122 9.8 7.8 11.6



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: 23.48 min Scan# 3484

Delta R.T. -0.01 min

Lab File: BN005091.D

Acq: 04 Apr 2019 12:49

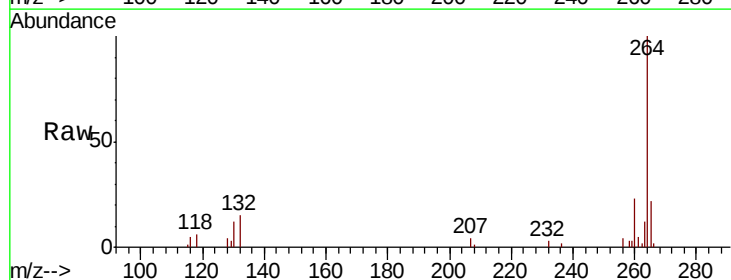
Tgt Ion:264 Resp: 41729

Ion Ratio Lower Upper

264 100

260 23.4 18.9 28.3

265 21.6 17.4 26.2



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

