

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN040319\  
 Data File : BN005068.D  
 Acq On : 03 Apr 2019 19:29  
 Operator : JU/SJ  
 Sample : PB118575TB  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB118575TB

Quant Time: Apr 04 04:29:21 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-BN032619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 27 05:27:09 2019  
 Response via : Initial Calibration

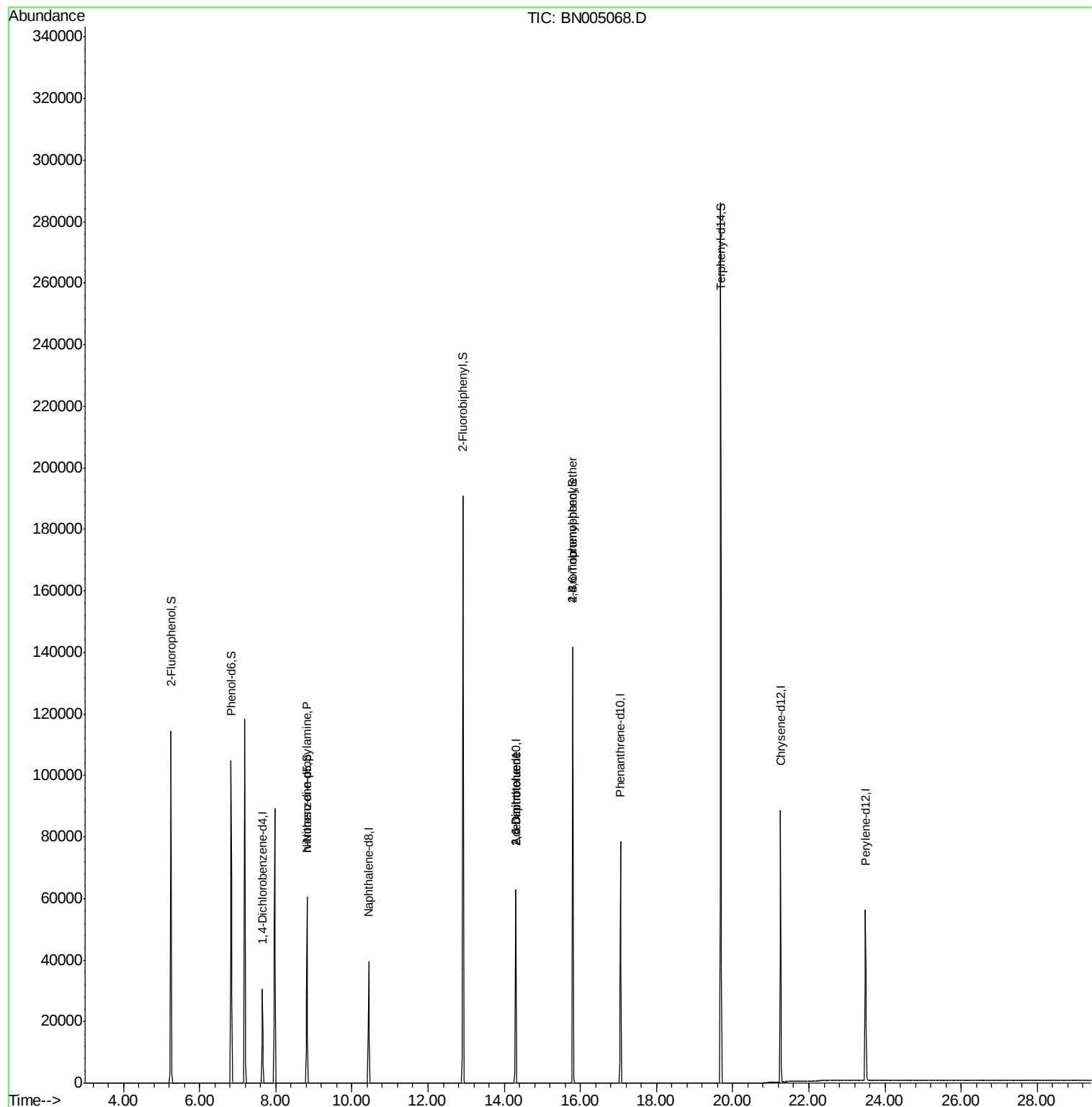
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.65  | 152  | 9463     | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.44 | 136  | 38186    | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.30 | 164  | 22065    | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.05 | 188  | 49344    | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12               | 21.26 | 240  | 46536    | 20.00 | ng    | -0.02    |
| 87) Perylene-d12               | 23.49 | 264  | 43877    | 20.00 | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.25  | 112  | 51450    | 94.00 | ng    | -0.02    |
| 7) Phenol-d6                   | 6.83  | 99   | 65812    | 90.65 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 8.82  | 82   | 35720    | 56.58 | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol       | 15.80 | 330  | 32404    | 91.06 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 12.92 | 172  | 102434   | 61.52 | ng    | -0.02    |
| 79) Terphenyl-d14              | 19.69 | 244  | 151371   | 62.62 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 8.82  | 70   | 4407     | 9.260 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.30 | 165  | 2718     | 6.589 | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 14.30 | 165  | 2718     | 4.848 | ng    | # 27     |
| 67) 4-Bromophenyl-phenylether  | 15.80 | 248  | 1826     | 2.965 | ng    | # 1      |

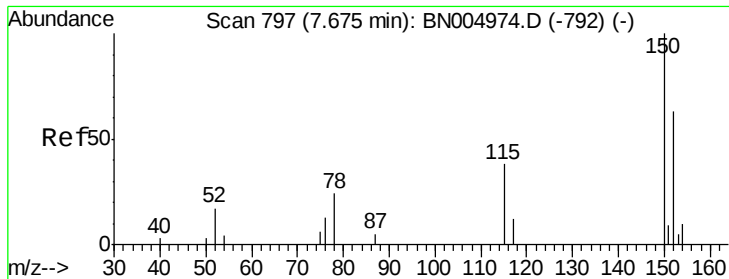
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN040319\  
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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB118575TB

Quant Time: Apr 04 04:29:21 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\8270-BN032619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 27 05:27:09 2019  
Response via : Initial Calibration

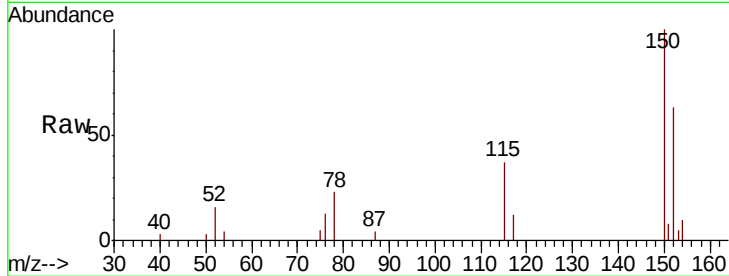




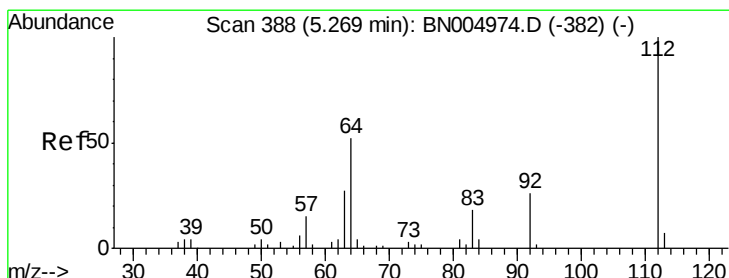
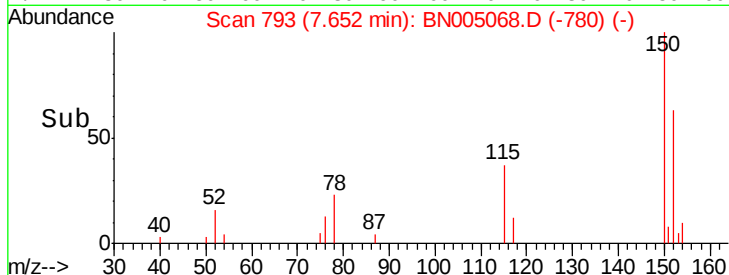
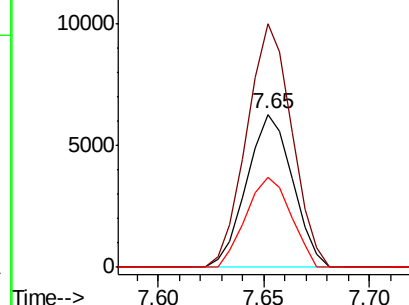
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.65 min Scan# 793  
 Delta R.T. -0.02 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB118575TB

Tgt Ion:152 Resp: 9463  
 Ion Ratio Lower Upper  
 152 100  
 150 158.8 126.9 190.3  
 115 59.0 47.8 71.6

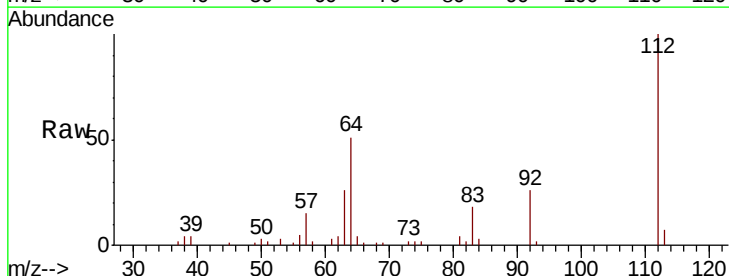


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

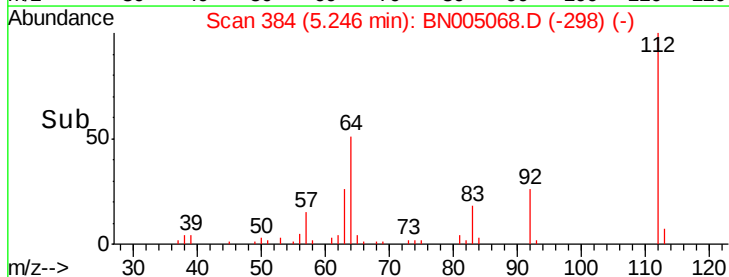
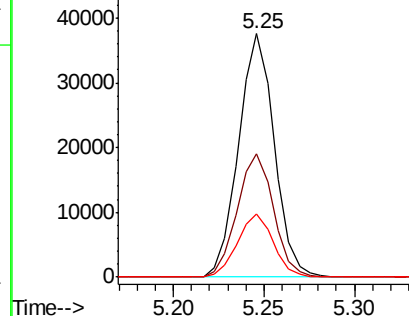


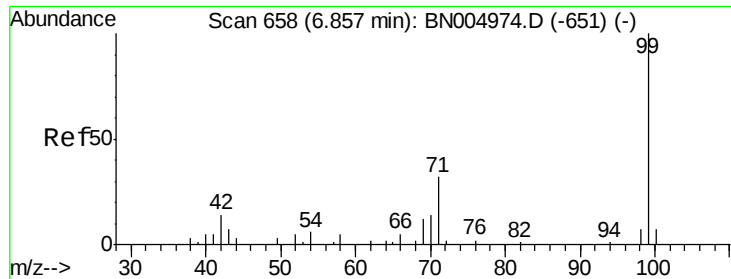
#5  
 2-Fluorophenol  
 Concen: 94.000 ng  
 RT: 5.25 min Scan# 384  
 Delta R.T. -0.02 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

Tgt Ion:112 Resp: 51450  
 Ion Ratio Lower Upper  
 112 100  
 64 50.9 41.9 62.9  
 63 26.1 21.4 32.0



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: 90.655 ng

RT: 6.83 min Scan# 653

Delta R.T. -0.03 min

Lab File: BN005068.D

Acq: 03 Apr 2019 19:29

Instrument :

BNA\_N

ClientSampleId :

PB118575TB

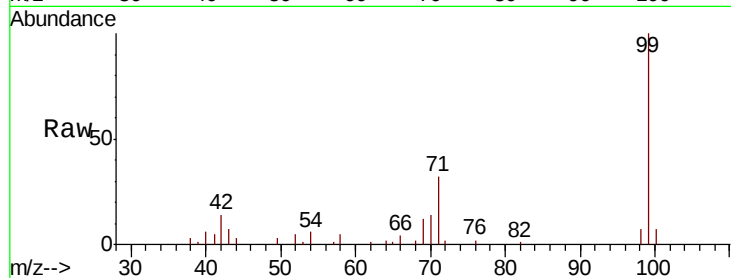
Tgt Ion: 99 Resp: 65812

Ion Ratio Lower Upper

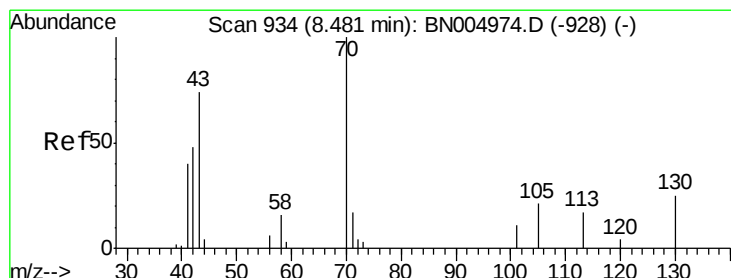
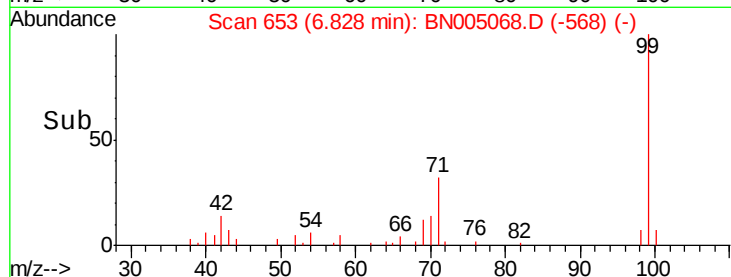
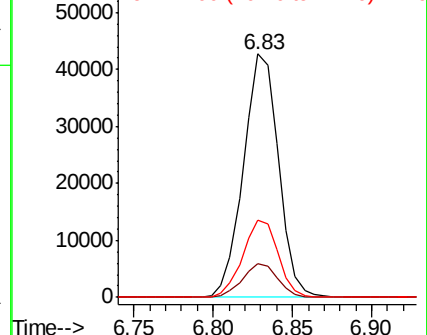
99 100

42 13.6 11.4 17.0

71 31.6 25.8 38.8



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



#19

n-Nitroso-di-n-propylamine

Concen: 9.260 ng

RT: 8.82 min Scan# 991

Delta R.T. 0.34 min

Lab File: BN005068.D

Acq: 03 Apr 2019 19:29

Tgt Ion: 70 Resp: 4407

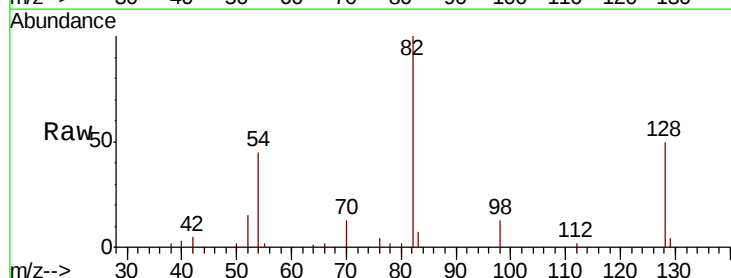
Ion Ratio Lower Upper

70 100

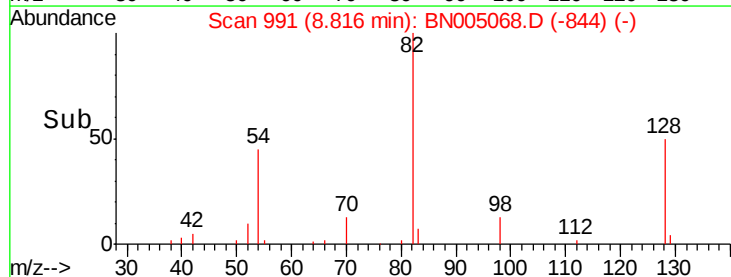
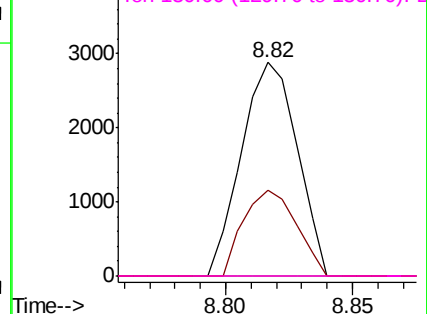
42 40.0 38.4 57.6

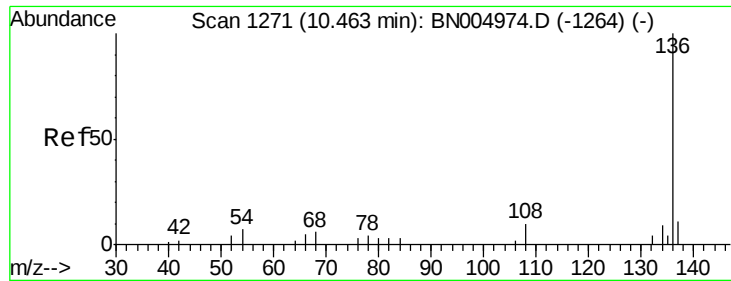
101 0.0 8.8 13.2#

130 0.0 19.8 29.8#



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

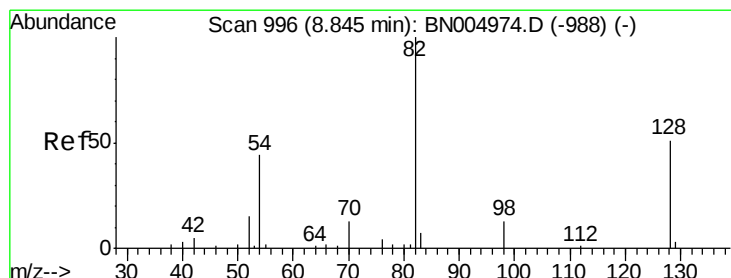
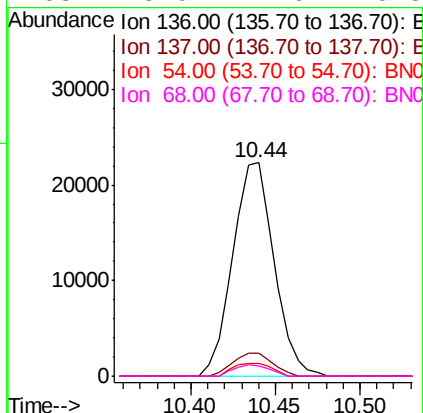
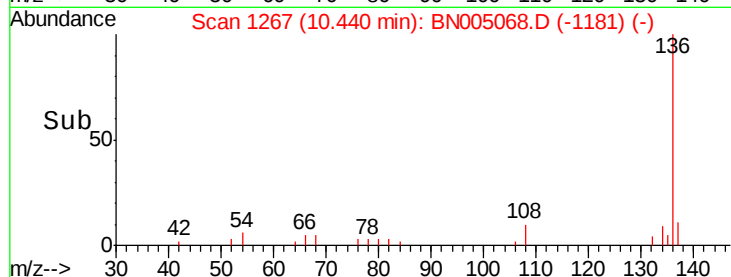
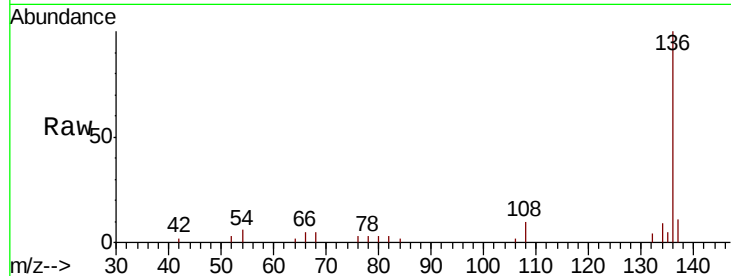




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.44 min Scan# 1267  
Delta R.T. -0.02 min  
Lab File: BN005068.D  
Acq: 03 Apr 2019 19:29

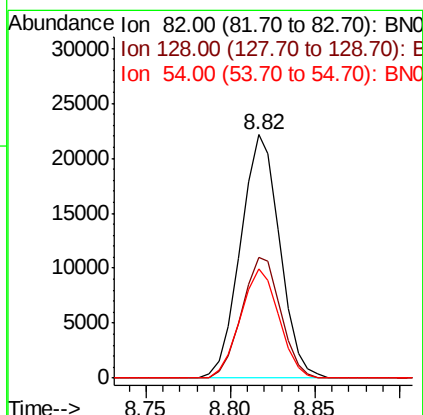
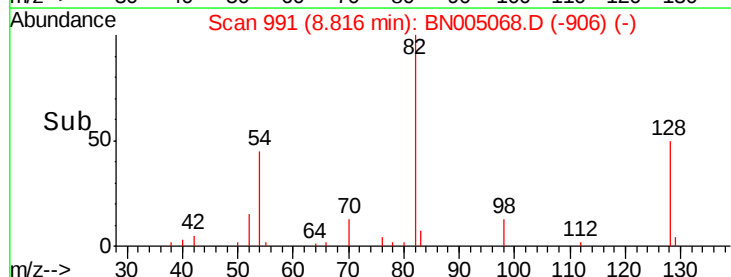
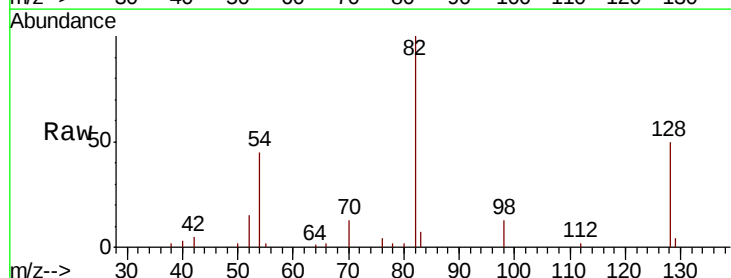
Instrument :  
BNA\_N  
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PB118575TB

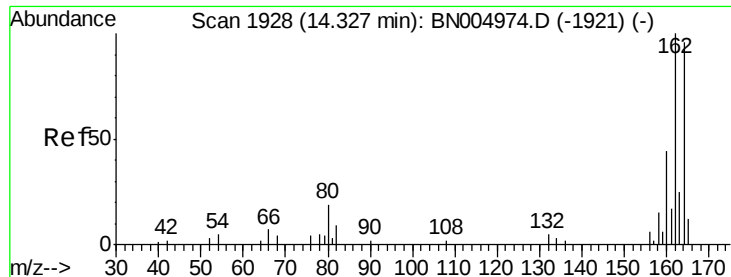
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 38186 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 10.8  | 8.9   | 13.3  |
| 54       | 6.2   | 5.3   | 7.9   |
| 68       | 5.0   | 4.6   | 6.8   |



#23  
Nitrobenzene-d5  
Concen: 56.585 ng  
RT: 8.82 min Scan# 991  
Delta R.T. -0.03 min  
Lab File: BN005068.D  
Acq: 03 Apr 2019 19:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 35720 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 49.7  | 40.6  | 60.8  |
| 54       | 44.6  | 35.2  | 52.8  |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.30 min Scan# 1924

Delta R.T. -0.02 min

Lab File: BN005068.D

Acq: 03 Apr 2019 19:29

Instrument :

BNA\_N

ClientSampleId :

PB118575TB

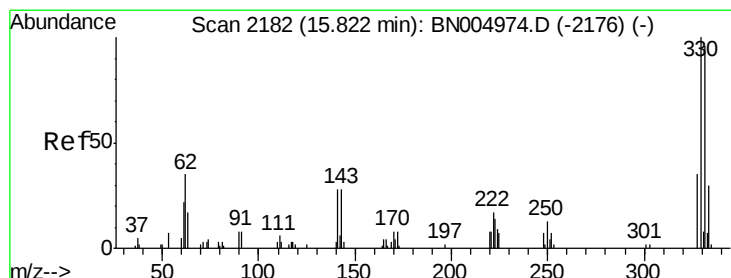
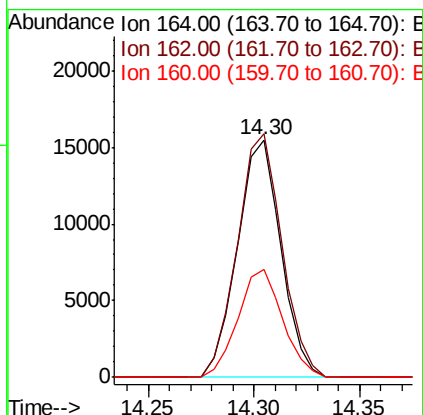
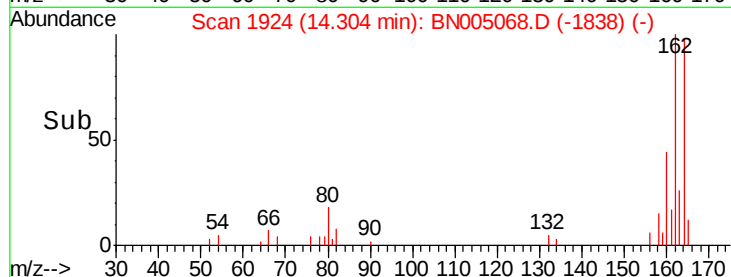
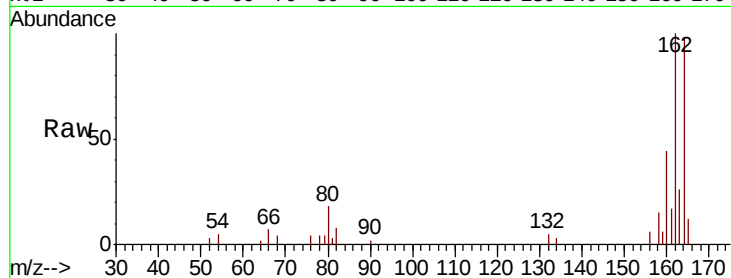
Tgt Ion:164 Resp: 22065

Ion Ratio Lower Upper

164 100

162 102.5 83.4 125.0

160 45.2 36.6 55.0



#42

2,4,6-Tribromophenol

Concen: 91.056 ng

RT: 15.80 min Scan# 2178

Delta R.T. -0.02 min

Lab File: BN005068.D

Acq: 03 Apr 2019 19:29

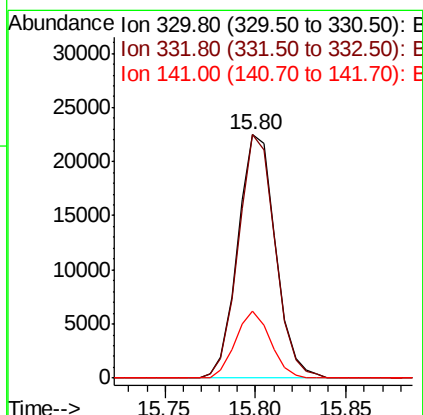
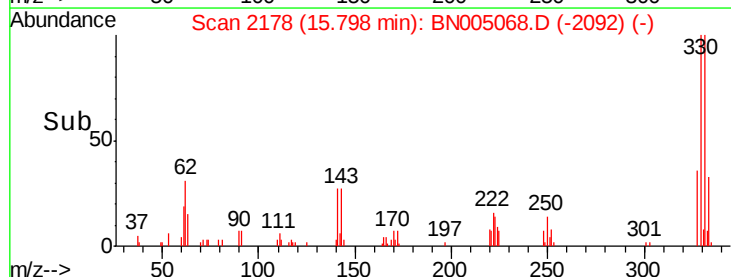
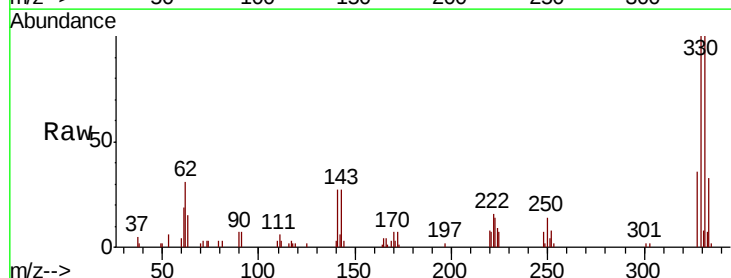
Tgt Ion:330 Resp: 32404

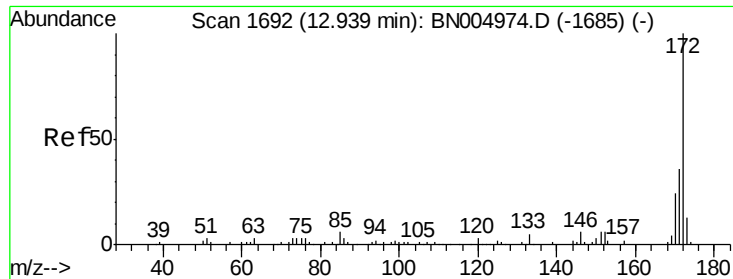
Ion Ratio Lower Upper

330 100

332 97.8 77.4 116.0

141 25.7 22.1 33.1

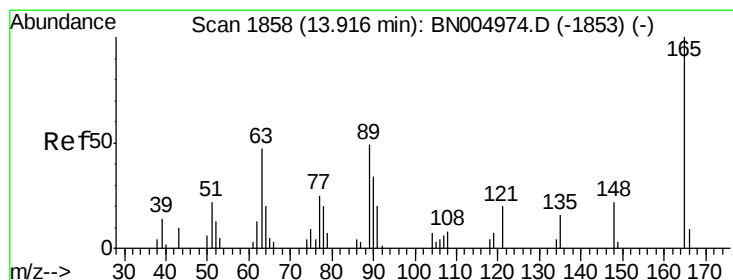
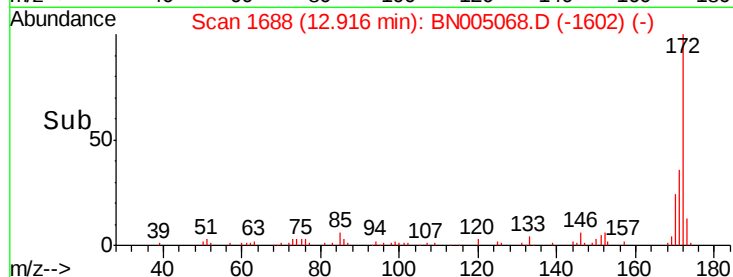
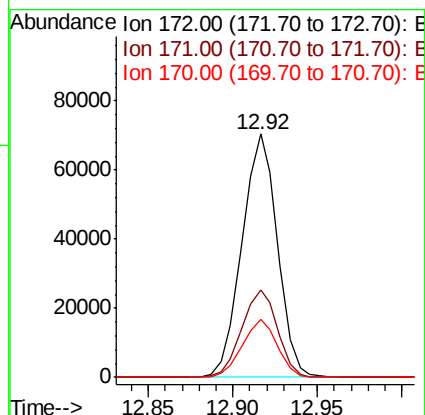
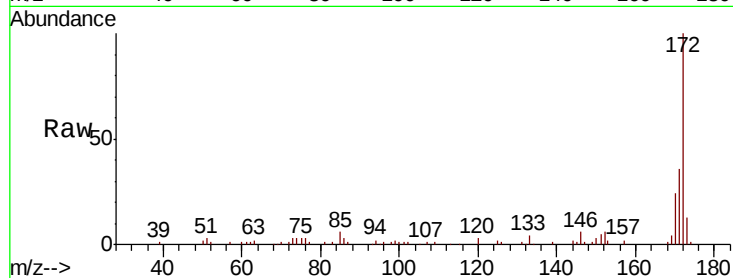




#45  
 2-Fluorobiphenyl  
 Concen: 61.517 ng  
 RT: 12.92 min Scan# 1688  
 Delta R.T. -0.02 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

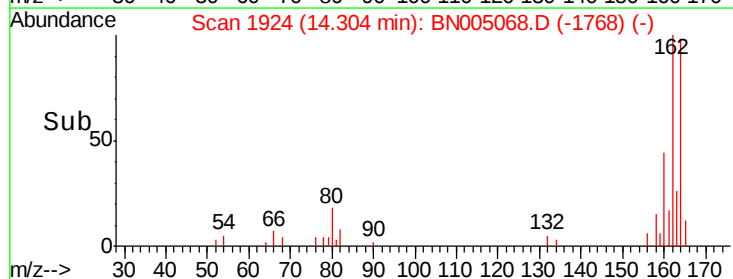
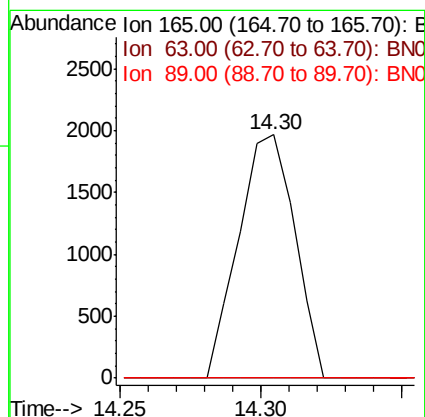
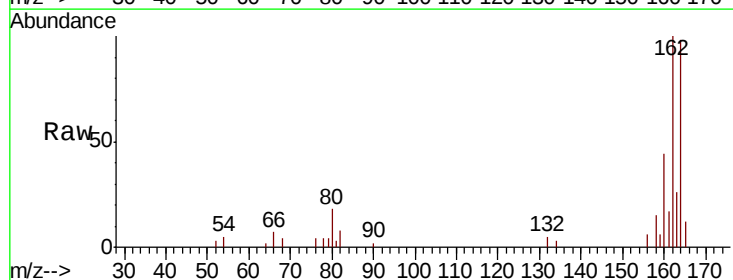
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB118575TB

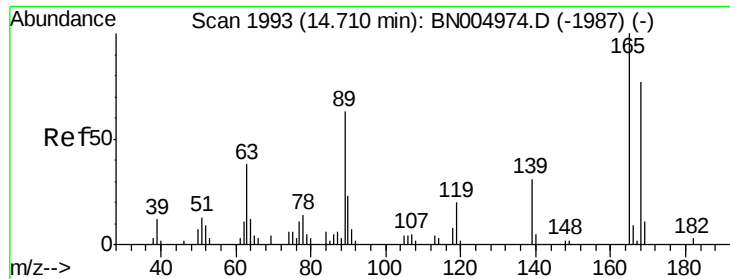
Tgt Ion:172 Resp: 102434  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 28.6 42.8  
 170 23.6 18.9 28.3



#51  
 2,6-Dinitrotoluene  
 Concen: 6.589 ng  
 RT: 14.30 min Scan# 1924  
 Delta R.T. 0.39 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

Tgt Ion:165 Resp: 2718  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 37.3 55.9#  
 89 0.0 39.2 58.8#

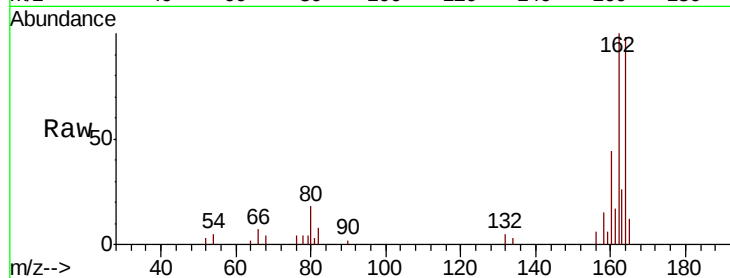




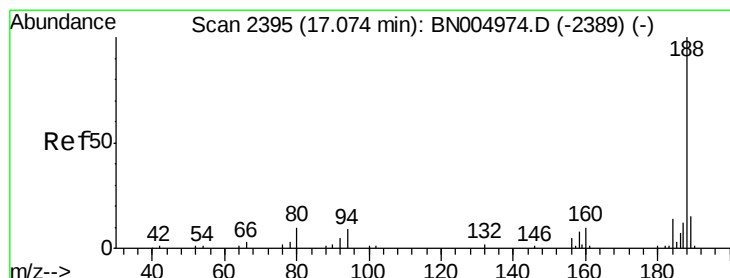
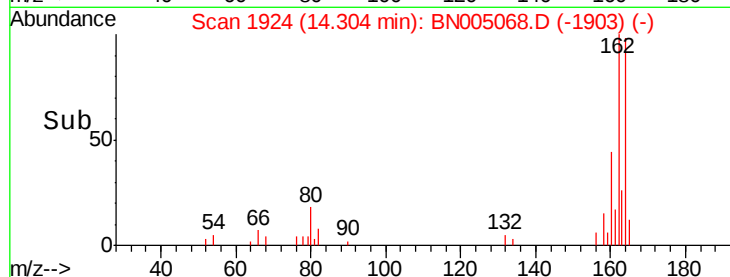
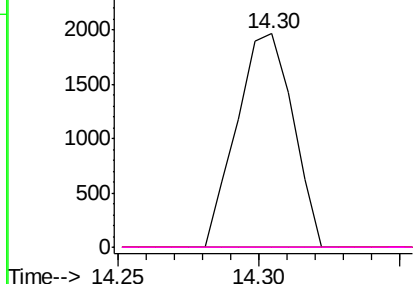
#57  
 2,4-Dinitrotoluene  
 Concen: 4.848 ng  
 RT: 14.30 min Scan# 1924  
 Delta R.T. -0.41 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB118575TB

Tgt Ion:165 Resp: 2718  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 30.4 45.6#  
 89 0.0 50.7 76.1#  
 182 0.0 2.5 3.7#

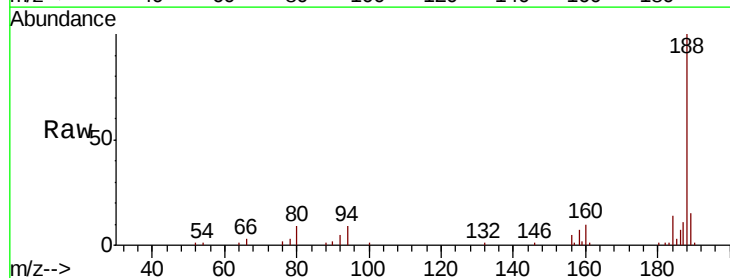


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BNC  
 Ion 89.00 (88.70 to 89.70): BNC  
 Ion 182.00 (181.70 to 182.70): E

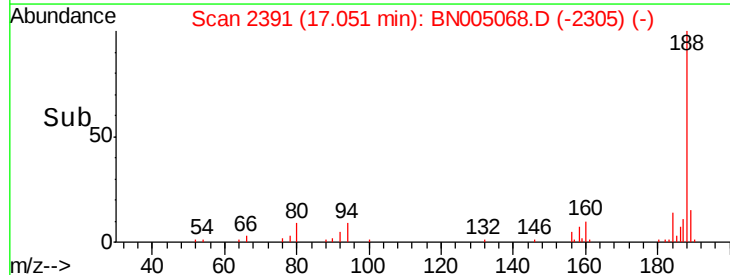
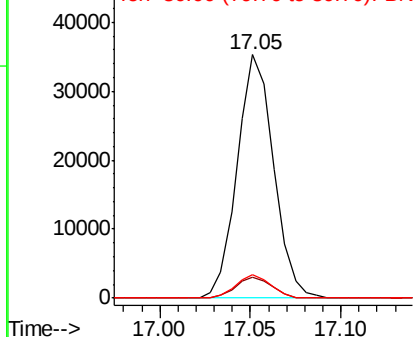


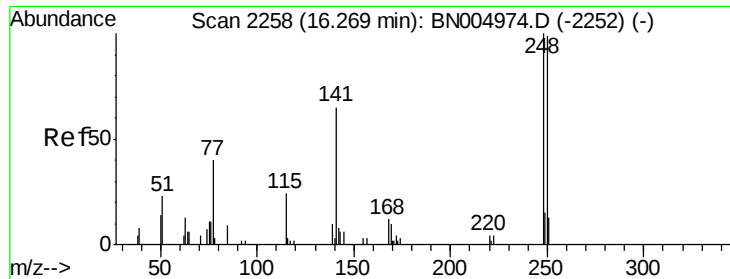
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.05 min Scan# 2391  
 Delta R.T. -0.02 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

Tgt Ion:188 Resp: 49344  
 Ion Ratio Lower Upper  
 188 100  
 94 8.6 7.2 10.8  
 80 9.5 7.8 11.6



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BNC  
 Ion 80.00 (79.70 to 80.70): BNC

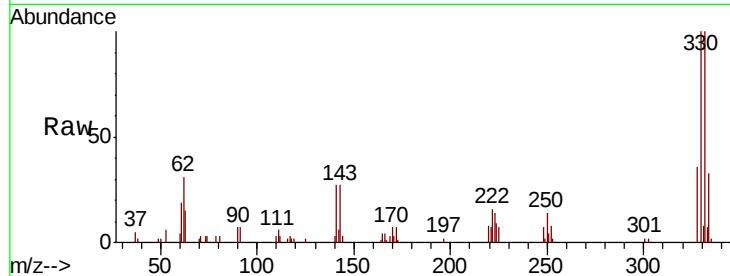




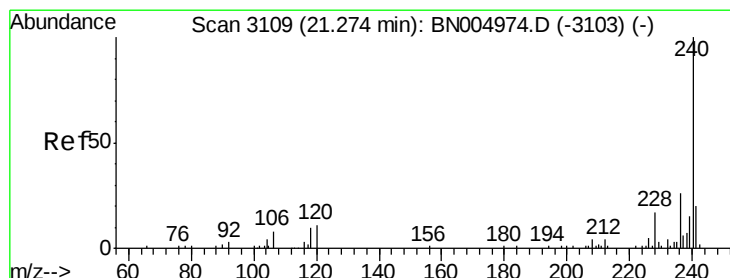
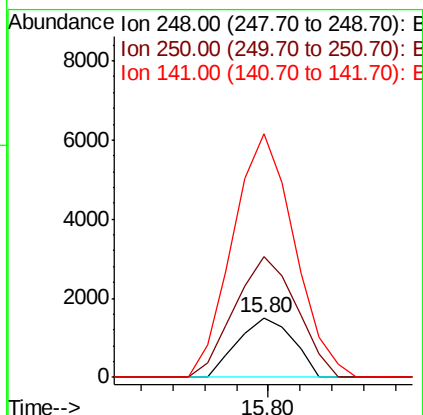
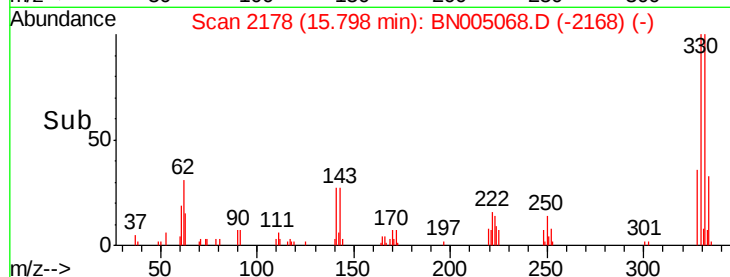
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.965 ng  
 RT: 15.80 min Scan# 2178  
 Delta R.T. -0.47 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB118575TB

Tgt Ion:248 Resp: 1826  
 Ion Ratio Lower Upper  
 248 100  
 250 202.8 79.4 119.2#  
 141 408.4 52.3 78.5#

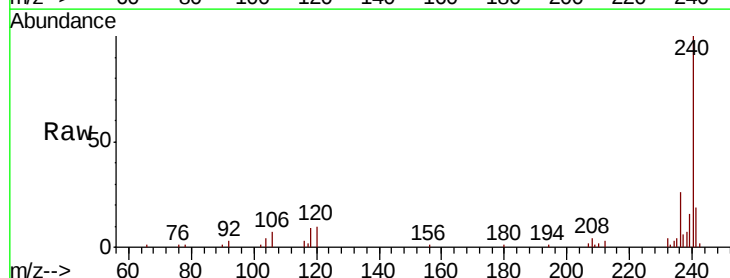


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

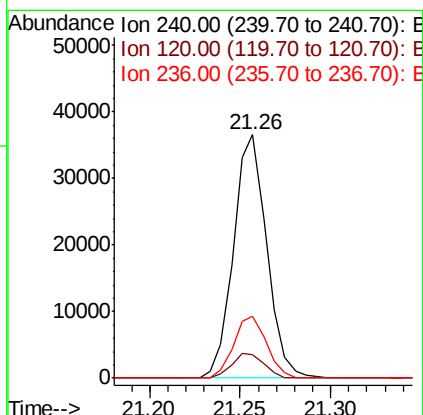
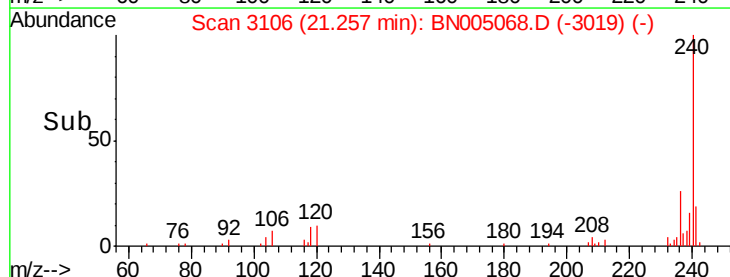


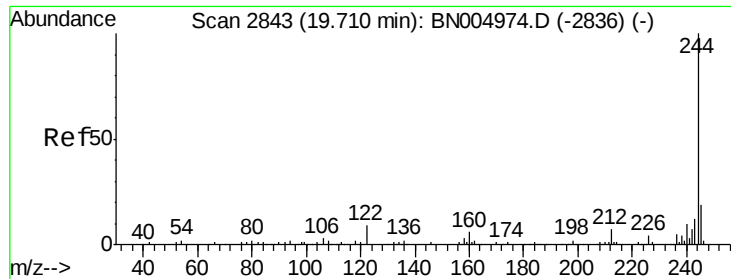
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.26 min Scan# 3106  
 Delta R.T. -0.02 min  
 Lab File: BN005068.D  
 Acq: 03 Apr 2019 19:29

Tgt Ion:240 Resp: 46536  
 Ion Ratio Lower Upper  
 240 100  
 120 9.6 8.5 12.7  
 236 25.5 21.2 31.8



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: 62.624 ng

RT: 19.69 min Scan# 2840

Delta R.T. -0.02 min

Lab File: BN005068.D

Acq: 03 Apr 2019 19:29

Instrument :

BNA\_N

ClientSampleId :

PB118575TB

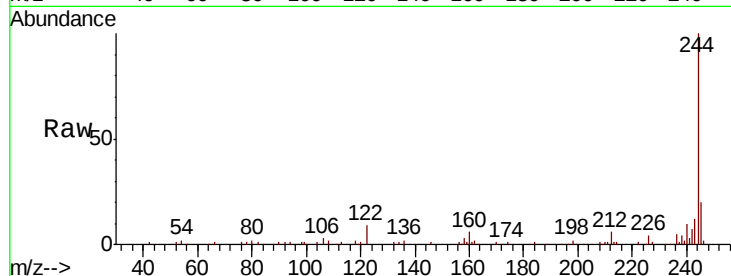
Tgt Ion:244 Resp: 151371

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

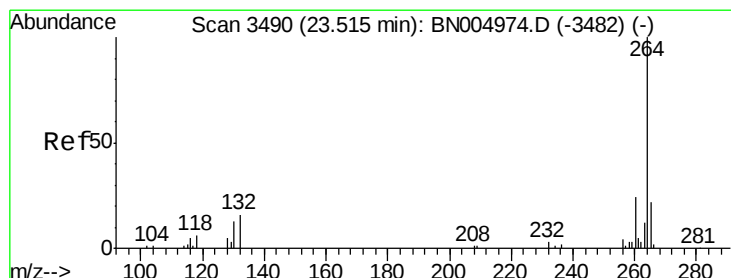
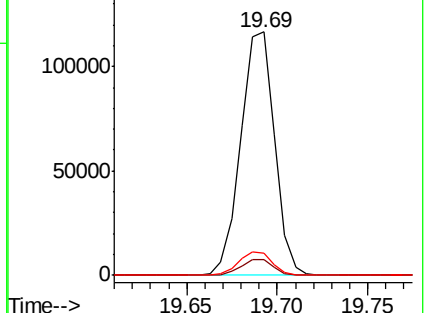
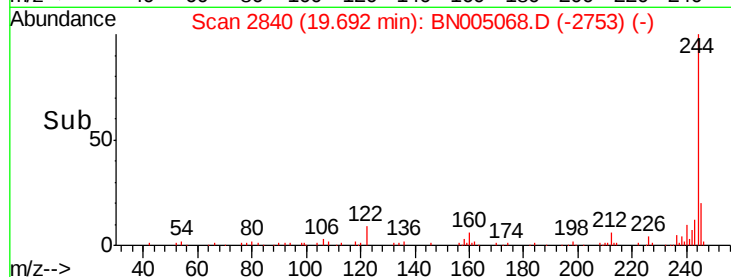
122 8.9 7.4 11.2



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: 23.49 min Scan# 3485

Delta R.T. -0.03 min

Lab File: BN005068.D

Acq: 03 Apr 2019 19:29

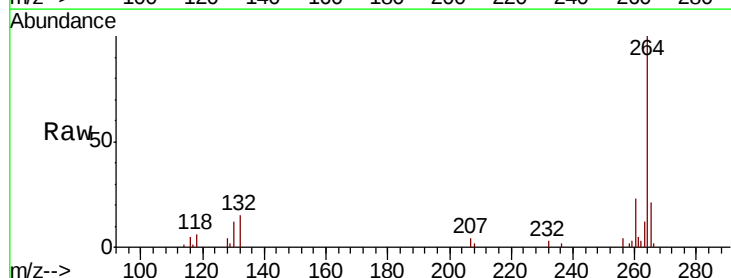
Tgt Ion:264 Resp: 43877

Ion Ratio Lower Upper

264 100

260 23.3 19.0 28.4

265 20.9 17.2 25.8



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

