

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072916\  
 Data File : BF089407.D  
 Acq On : 29 Jul 2016 12:46  
 Operator : UM/SJ  
 Sample : H4186-30  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 29 15:39:26 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 28 16:02:32 2016  
 Response via : Initial Calibration

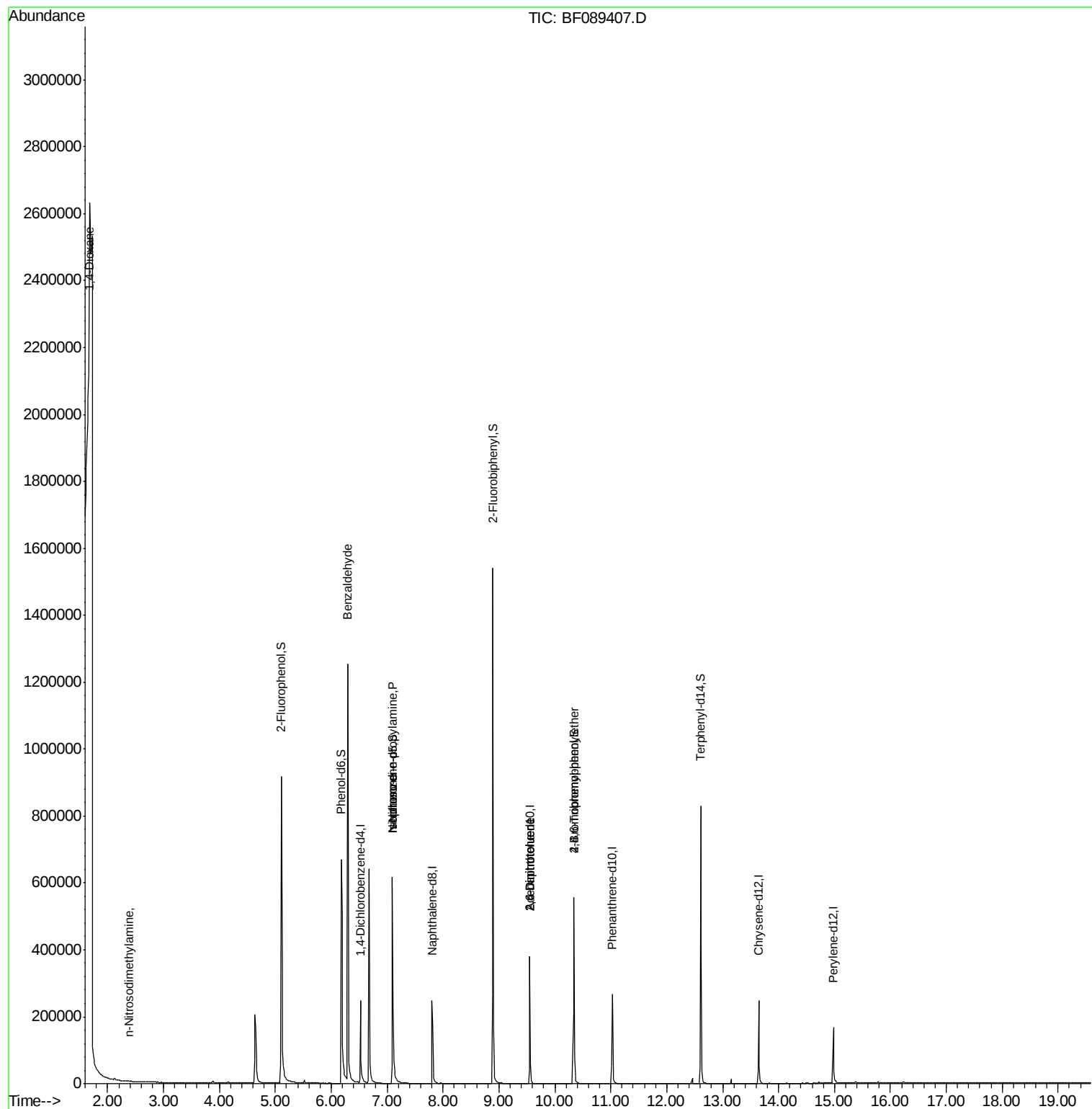
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.52  | 152  | 47245    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.80  | 136  | 176920   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.55  | 164  | 74738    | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.03 | 188  | 117124   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.65 | 240  | 95576    | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 14.98 | 264  | 80350    | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.11  | 112  | 324966   | 109.83 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.18  | 99   | 395416   | 101.12 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.10  | 82   | 277342   | 92.53  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.34 | 330  | 69417    | 112.15 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.89  | 172  | 486084   | 95.45  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.60 | 244  | 309182   | 75.71  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 1.68  | 88   | 28459    | 19.42  | ng    | # 26     |
| 4) n-Nitrosodimethylamine      | 2.39  | 42   | 235      | 7.90   | ng    | # 1      |
| 9) Benzaldehyde                | 6.30  | 77   | 8717     | 4.57   | ng    | # 81     |
| 19) n-Nitroso-di-n-propylamine | 7.10  | 70   | 36087    | 15.30  | ng    | # 82     |
| 25) Isophorone                 | 7.10  | 82   | 259129   | 42.92  | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.55  | 165  | 9220     | 7.89   | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.55  | 165  | 9220     | 5.99   | ng    | # 7      |
| 66) 4-Bromophenyl-phenylether  | 10.34 | 248  | 4772     | 4.27   | ng    | # 1      |

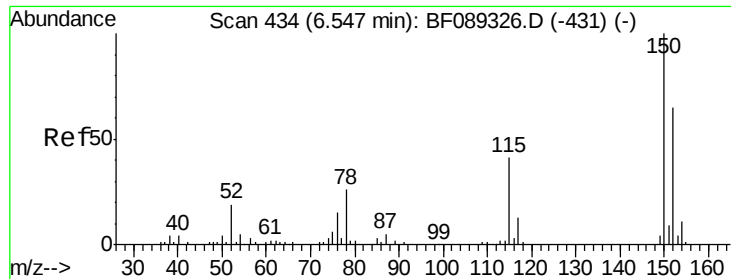
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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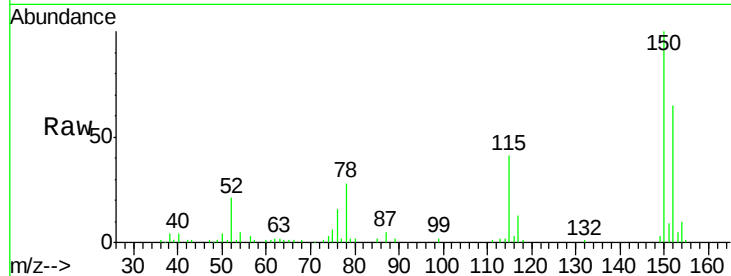


#1

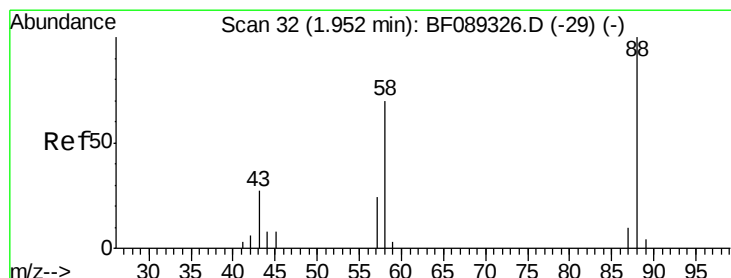
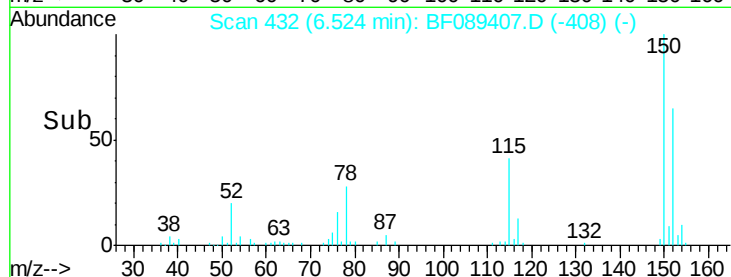
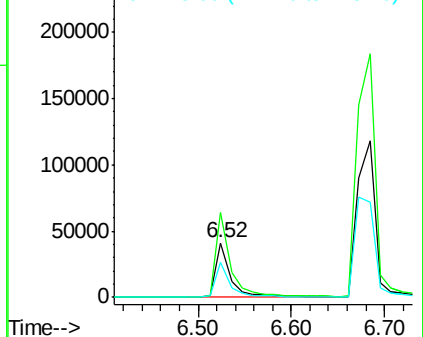
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.52 min Scan# 432  
Delta R.T. -0.02 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 47245  
Ion Ratio Lower Upper  
152 100  
150 154.7 129.5 194.3  
115 64.1 51.4 77.2



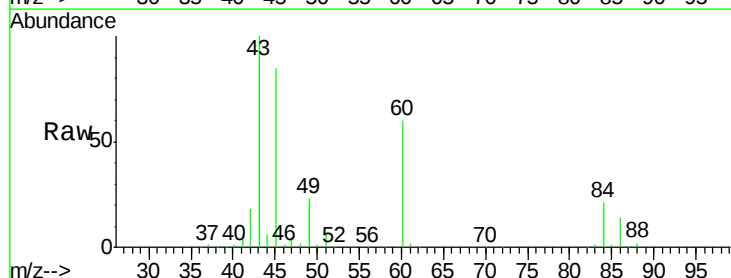
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



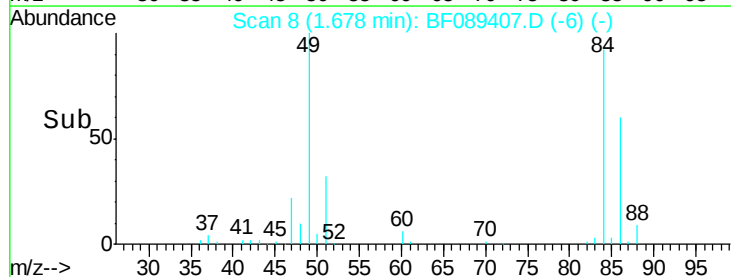
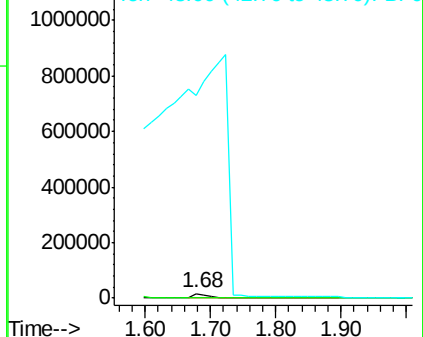
#2

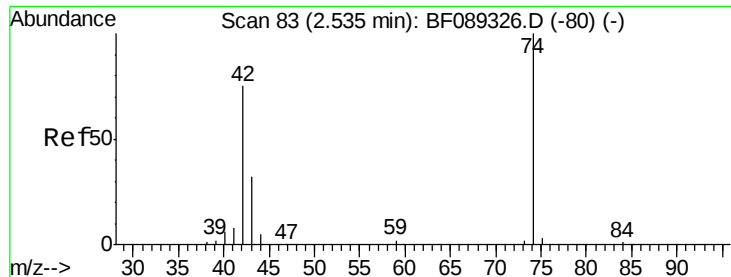
1,4-Dioxane  
Concen: 19.42 ng  
RT: 1.68 min Scan# 8  
Delta R.T. -0.27 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

Tgt Ion: 88 Resp: 28459  
Ion Ratio Lower Upper  
88 100  
58 0.0 53.2 79.8#  
43 0.0 20.6 31.0#



Abundance Ion 88.00 (87.70 to 88.70): BF0  
Ion 58.00 (57.70 to 58.70): BF0  
Ion 43.00 (42.70 to 43.70): BF0



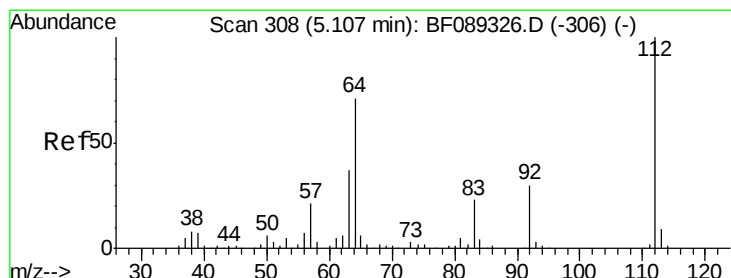
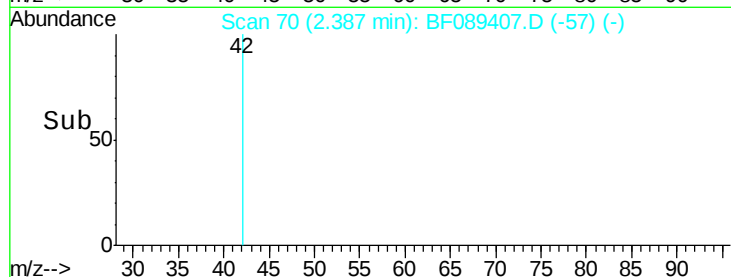
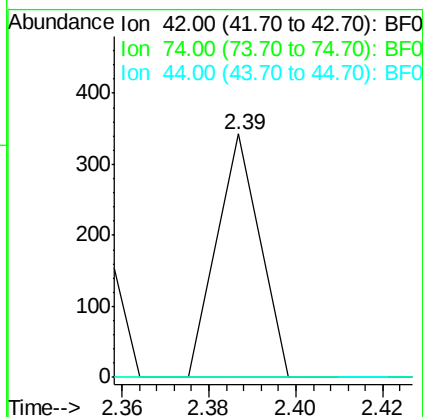
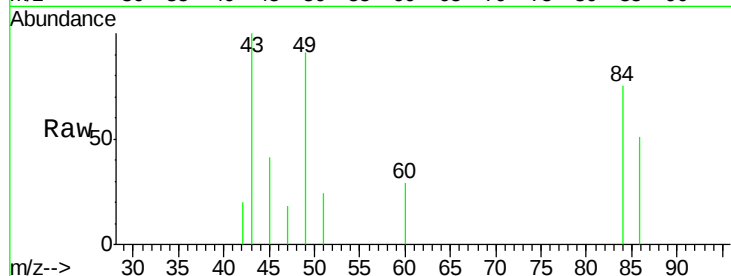


#4

n-Nitrosodimethylamine  
 Concen: 7.90 ng  
 RT: 2.39 min Scan# 70  
 Delta R.T. -0.15 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :

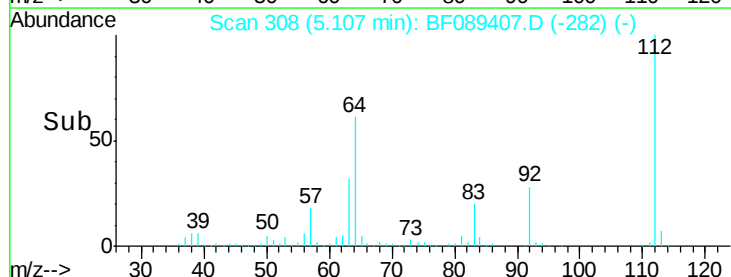
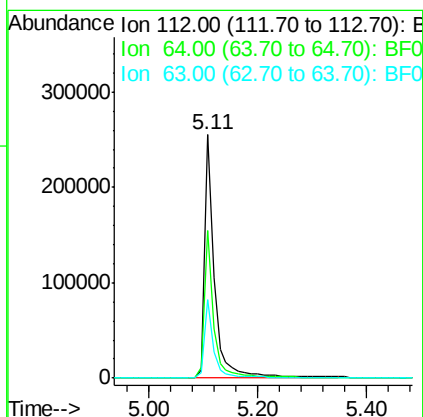
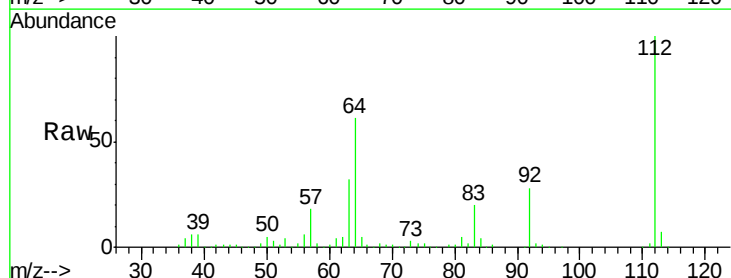
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 0.0   | 110.8 | 166.2# |
| 44      | 0.0   | 5.2   | 7.8#   |

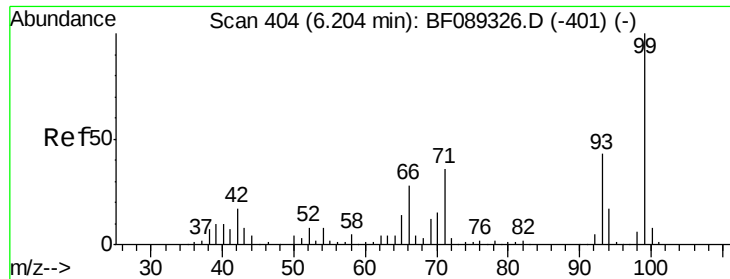


#5

2-Fluorophenol  
 Concen: 109.83 ng  
 RT: 5.11 min Scan# 308  
 Delta R.T. 0.00 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.8  | 55.0  | 82.6  |
| 63      | 32.2  | 29.4  | 44.2  |





#7

Phenol-d6

Concen: 101.12 ng

RT: 6.18 min Scan# 402

Delta R.T. -0.02 min

Lab File: BF089407.D

Acq: 29 Jul 2016 12:46

Instrument :

BNA\_F

ClientSampleId :

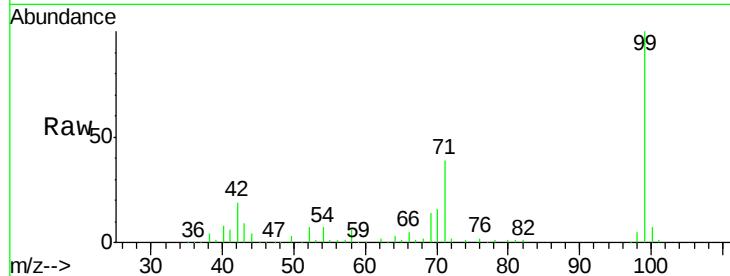
Tot Ion: 99 Resp: 395416

Ion Ratio Lower Upper

99 100

42 19.2 13.6 20.4

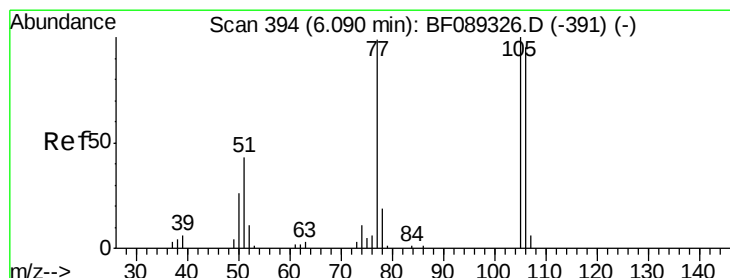
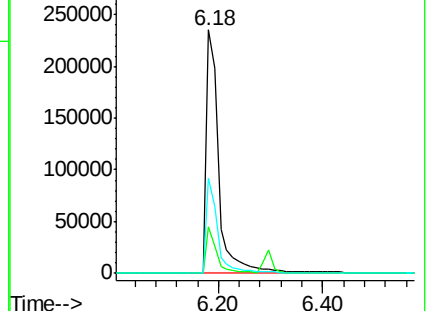
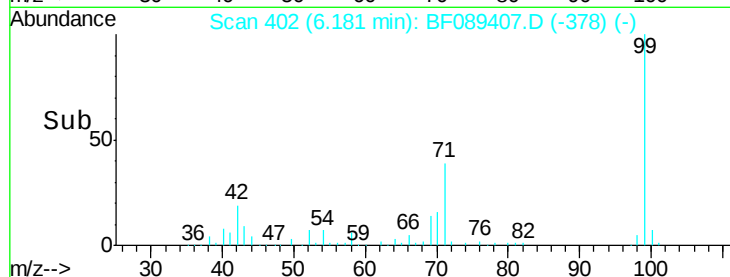
71 39.2 29.4 44.2



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 4.57 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.21 min

Lab File: BF089407.D

Acq: 29 Jul 2016 12:46

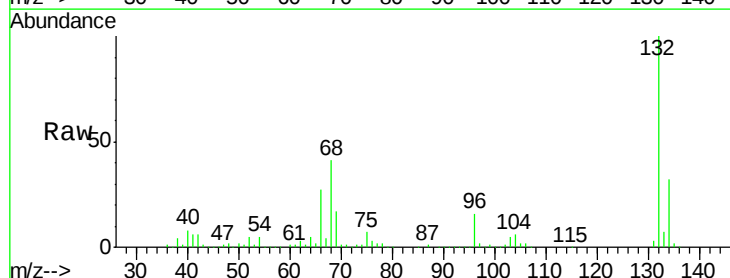
Tgt Ion: 77 Resp: 8717

Ion Ratio Lower Upper

77 100

105 82.7 82.9 122.9#

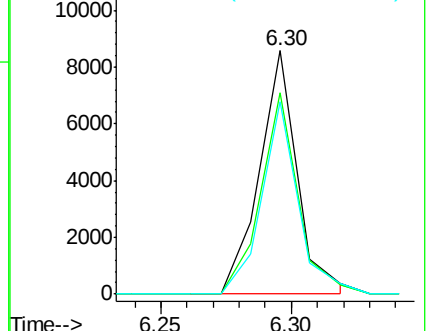
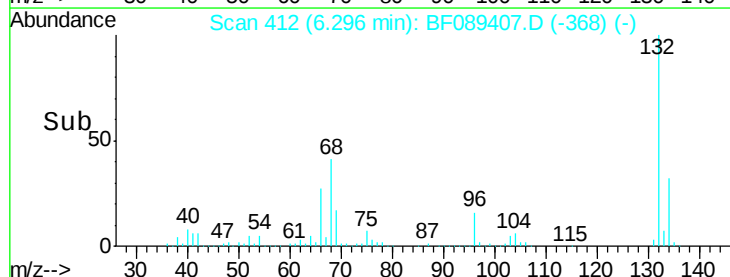
106 78.9 75.9 115.9

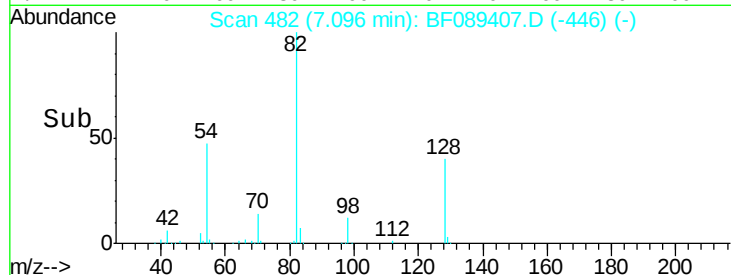
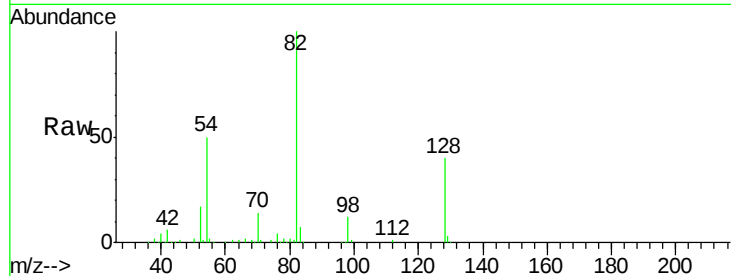
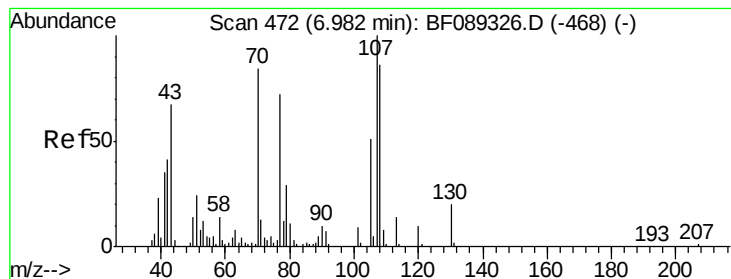


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#19

n-Nitroso-di-n-propylamine

Concen: 15.30 ng

RT: 7.10 min Scan# 482

Delta R.T. 0.11 min

Lab File: BF089407.D

Acq: 29 Jul 2016 12:46

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 36087

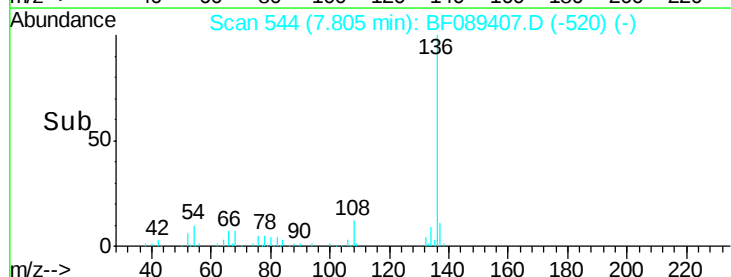
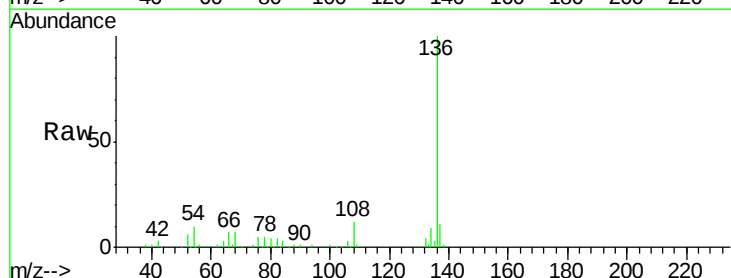
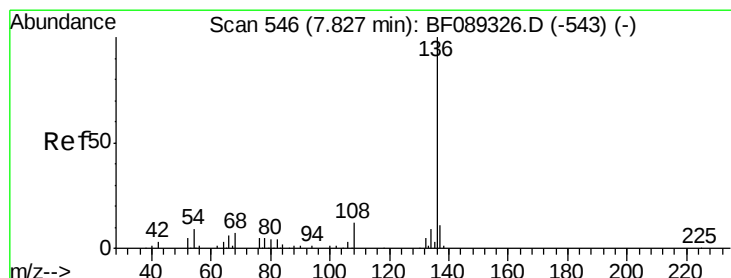
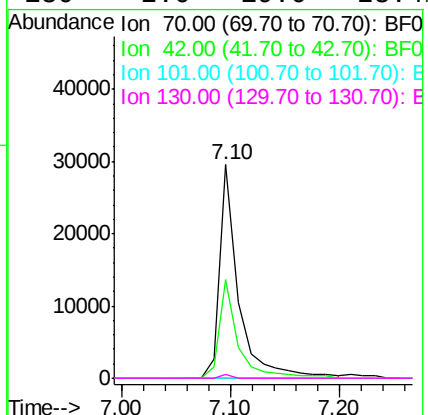
Ion Ratio Lower Upper

70 100

42 46.3 38.6 57.8

101 0.0 8.3 12.5#

130 2.0 19.0 28.4#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.80 min Scan# 544

Delta R.T. -0.02 min

Lab File: BF089407.D

Acq: 29 Jul 2016 12:46

Tgt Ion: 136 Resp: 176920

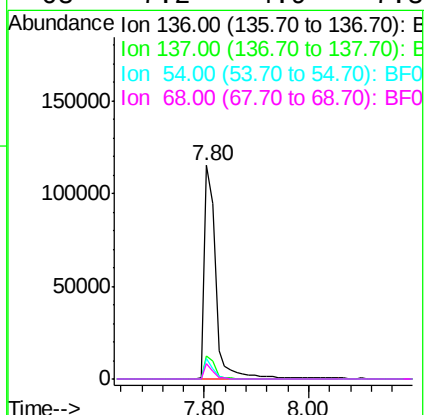
Ion Ratio Lower Upper

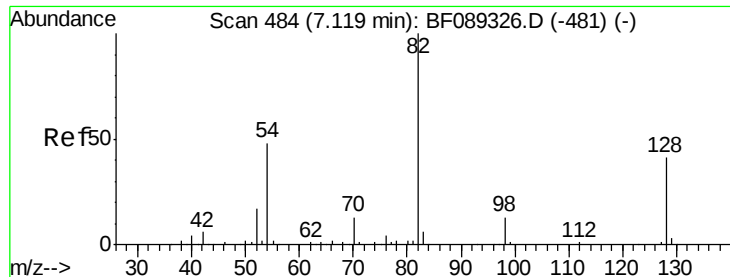
136 100

137 10.9 8.6 13.0

54 9.9 7.0 10.4

68 7.2 4.9 7.3

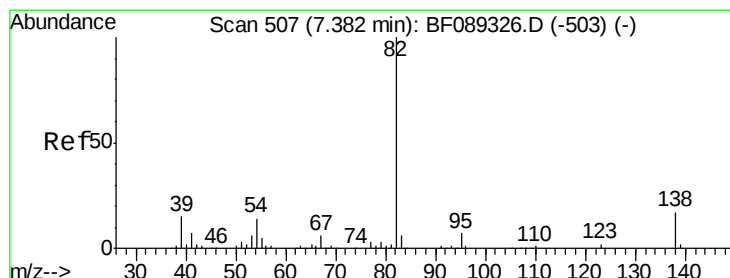
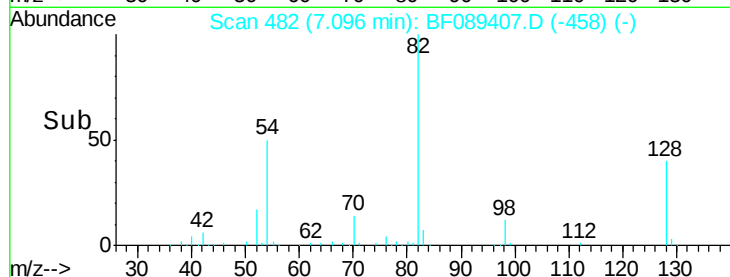
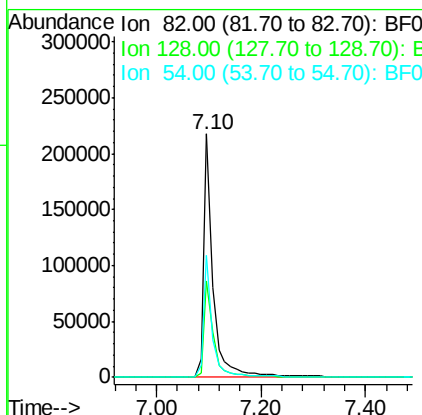
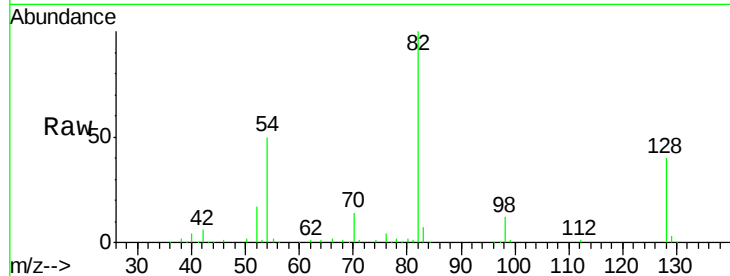




#23  
 Nitrobenzene-d5  
 Concen: 92.53 ng  
 RT: 7.10 min Scan# 482  
 Delta R.T. -0.02 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

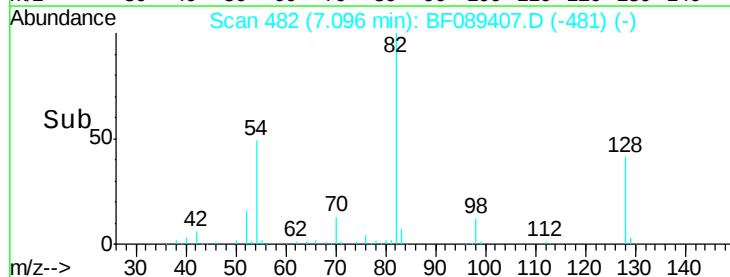
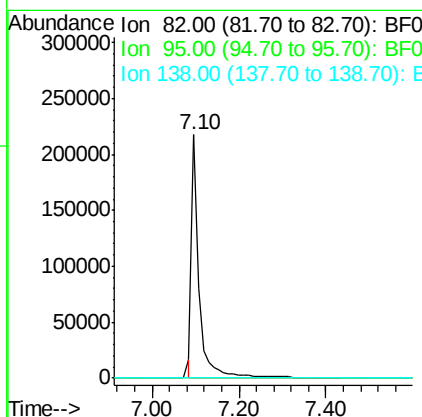
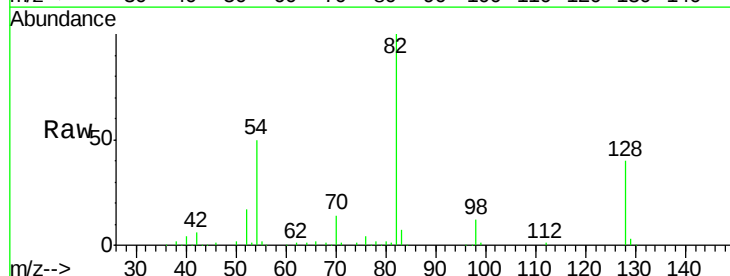
Instrument :  
 BNA\_F  
 ClientSampled :

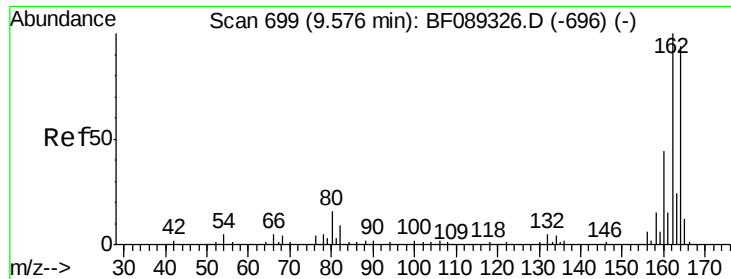
| Tot Ion   | 82    | Resp  | 277342 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 39.5  | 32.5  | 48.7   |
| 54        | 50.0  | 38.8  | 58.2   |



#25  
 Isophorone  
 Concen: 42.92 ng  
 RT: 7.10 min Scan# 482  
 Delta R.T. -0.29 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

| Tgt Ion   | 82    | Resp  | 259129 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 6.0   | 9.0#   |
| 138       | 0.0   | 13.3  | 19.9#  |

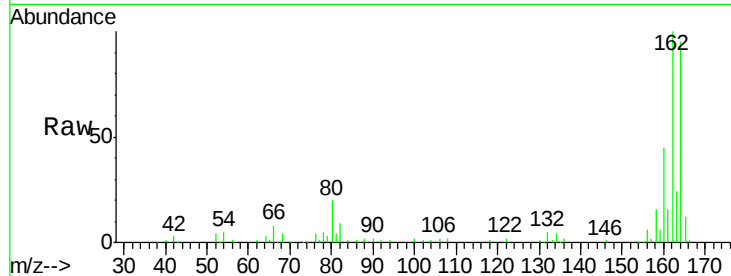




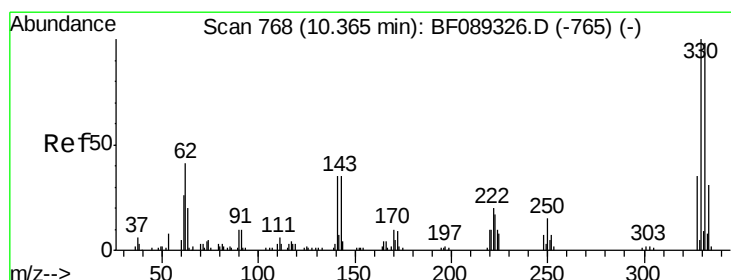
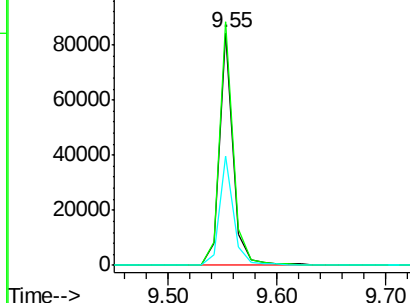
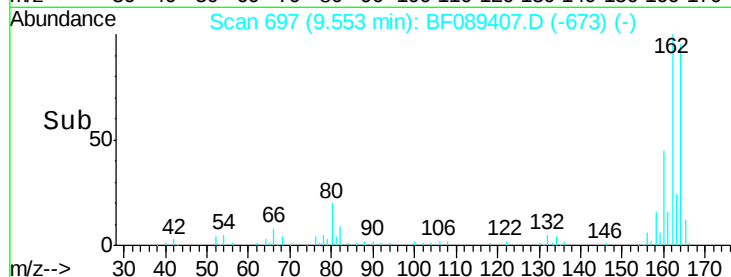
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.55 min Scan# 697  
Delta R.T. -0.02 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:164 Resp: 74738  
Ion Ratio Lower Upper  
164 100  
162 104.8 83.7 125.5  
160 46.8 37.8 56.6

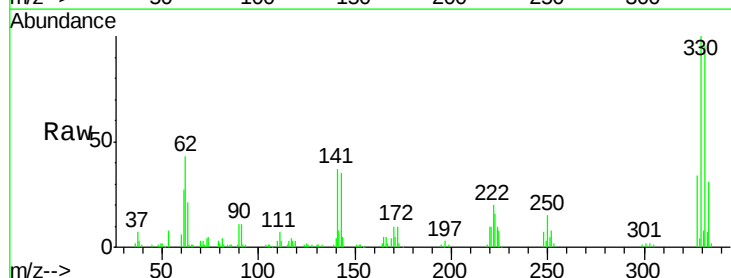


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

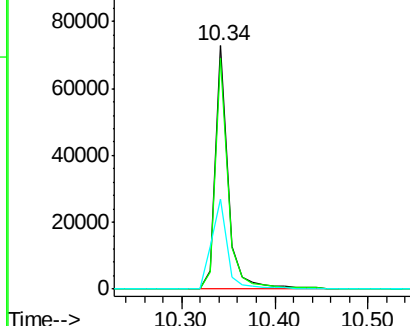
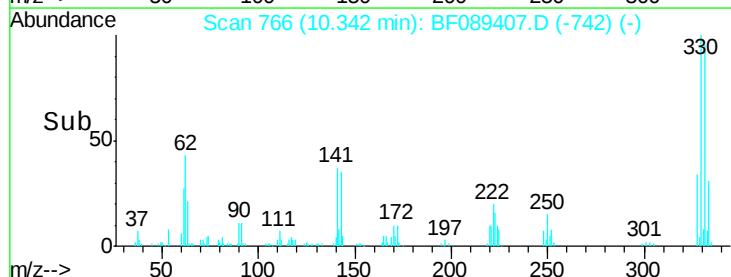


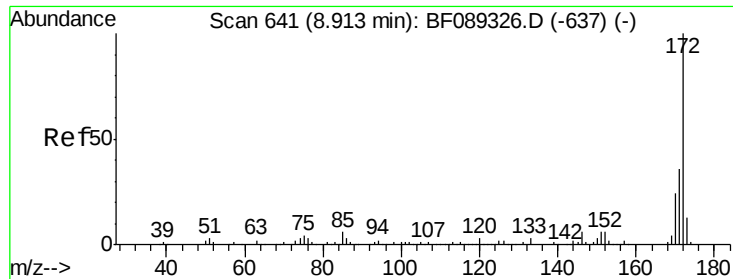
#41  
2,4,6-Tribromophenol  
Concen: 112.15 ng  
RT: 10.34 min Scan# 766  
Delta R.T. -0.02 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

Tgt Ion:330 Resp: 69417  
Ion Ratio Lower Upper  
330 100  
332 95.2 76.8 115.2  
141 46.4 37.3 55.9



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

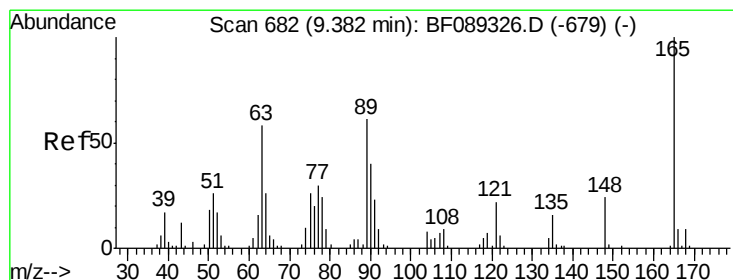
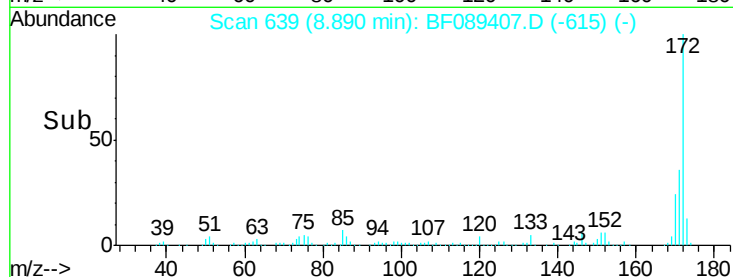
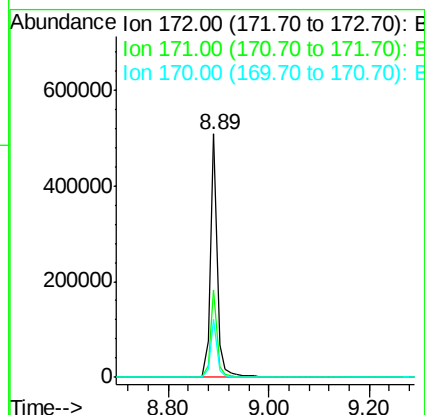
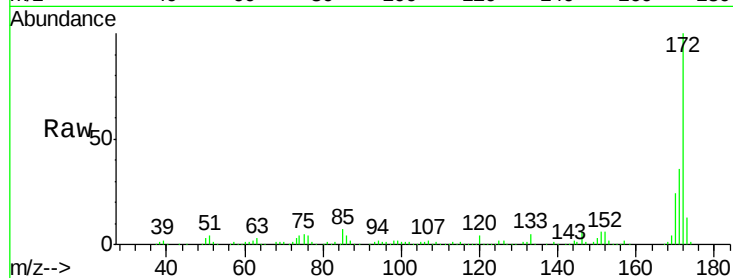




#44  
2-Fluorobiphenyl  
Concen: 95.45 ng  
RT: 8.89 min Scan# 639  
Delta R.T. -0.02 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

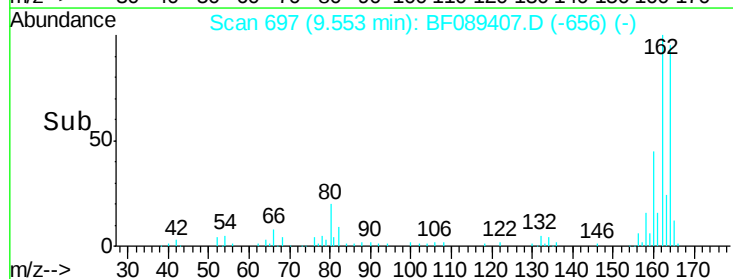
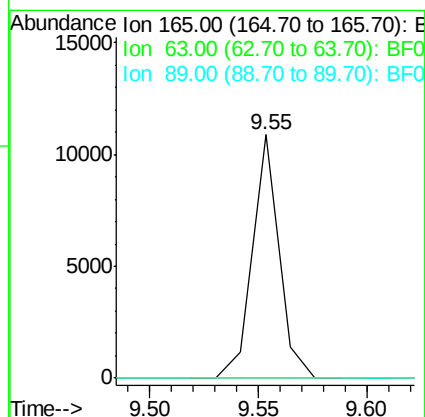
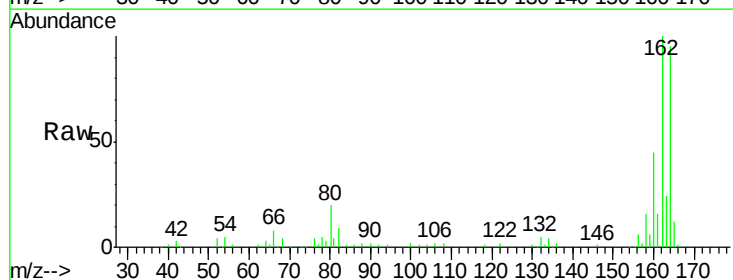
Instrument :  
BNA\_F  
ClientSampleId :

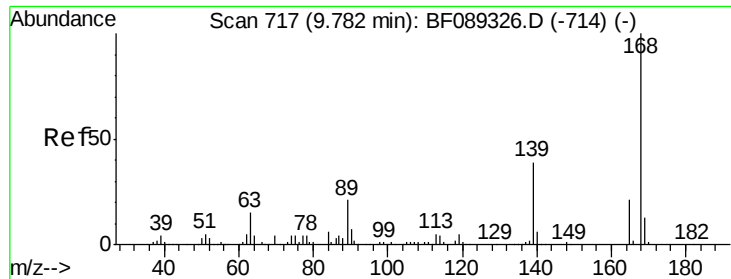
Tot Ion:172 Resp: 486084  
Ion Ratio Lower Upper  
172 100  
171 35.7 29.2 43.8  
170 23.9 19.2 28.8



#50  
2,6-Dinitrotoluene  
Concen: 7.89 ng  
RT: 9.55 min Scan# 697  
Delta R.T. 0.17 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

Tgt Ion:165 Resp: 9220  
Ion Ratio Lower Upper  
165 100  
63 0.0 43.5 65.3#  
89 0.0 45.0 67.4#

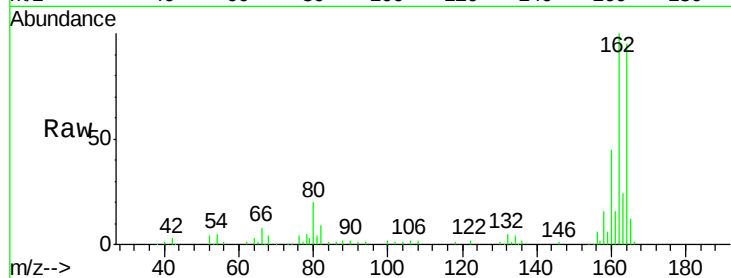




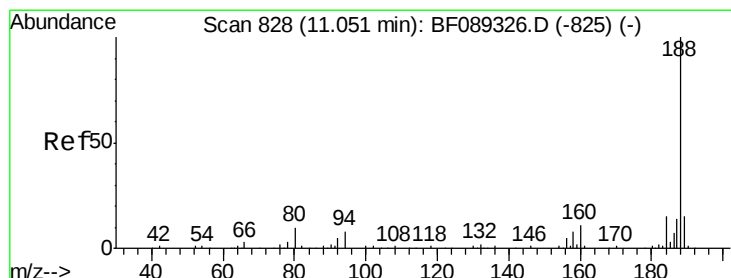
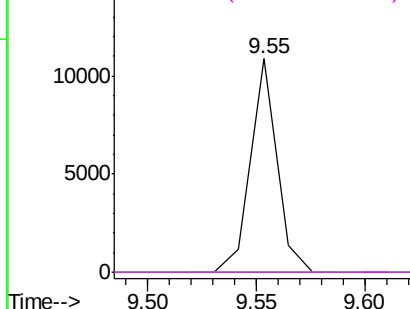
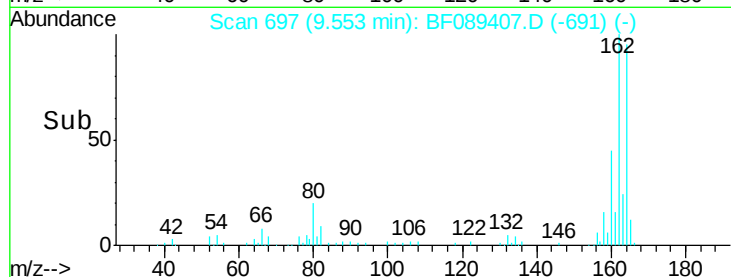
#56  
 2,4-Dinitrotoluene  
 Concen: 5.99 ng  
 RT: 9.55 min Scan# 697  
 Delta R.T. -0.23 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 9220  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 58.2 87.2#  
 89 0.0 79.1 118.7#  
 182 0.0 1.8 2.8#

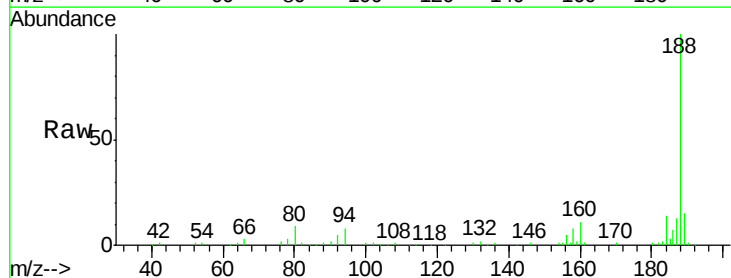


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

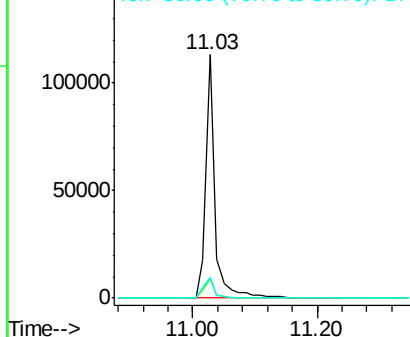
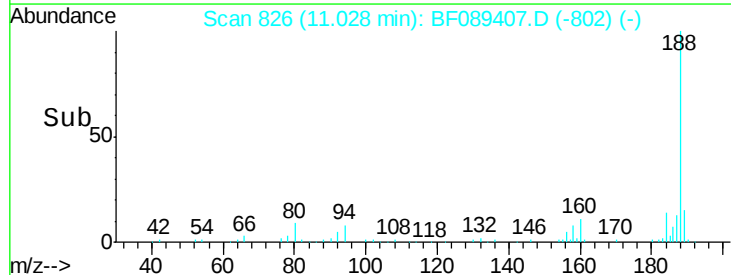


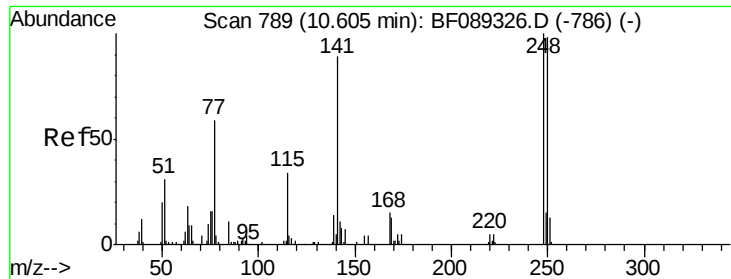
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.03 min Scan# 826  
 Delta R.T. -0.02 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

Tgt Ion:188 Resp: 117124  
 Ion Ratio Lower Upper  
 188 100  
 94 8.0 6.5 9.7  
 80 8.8 7.2 10.8



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

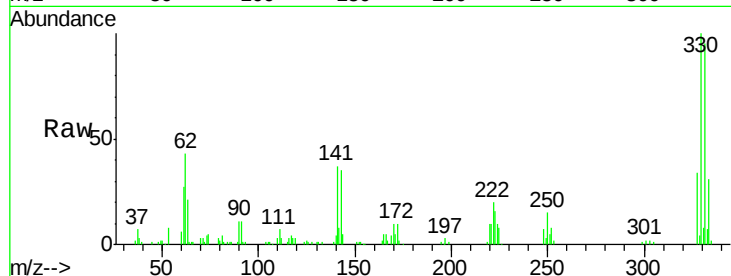




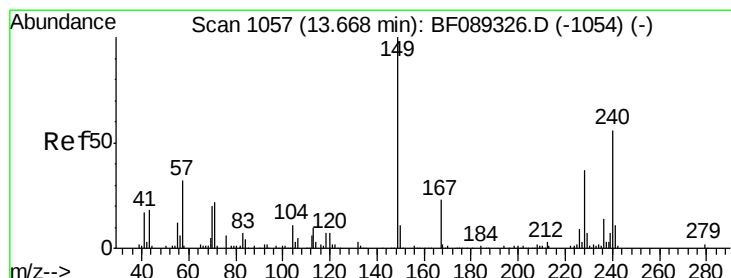
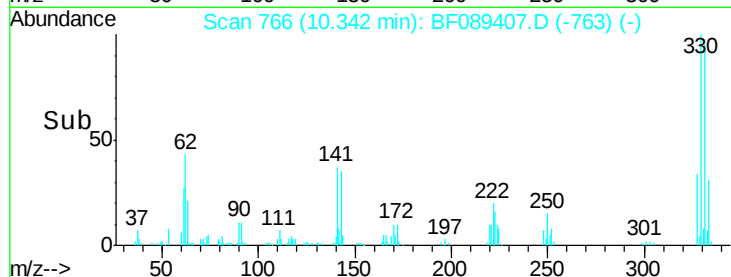
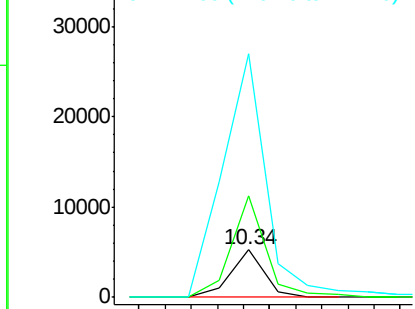
#66  
4-Bromophenyl-phenylether  
Concen: 4.27 ng  
RT: 10.34 min Scan# 766  
Delta R.T. -0.26 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 4772  
Ion Ratio Lower Upper  
248 100  
250 213.8 78.2 117.2#  
141 512.1 62.0 93.0#

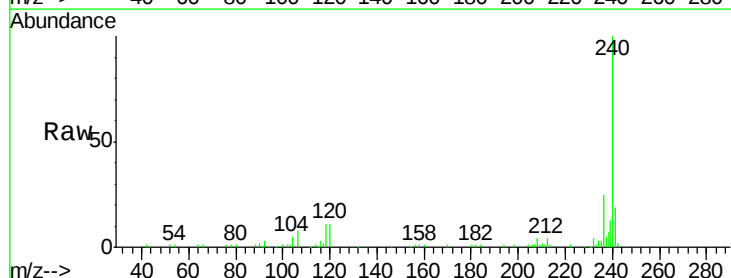


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

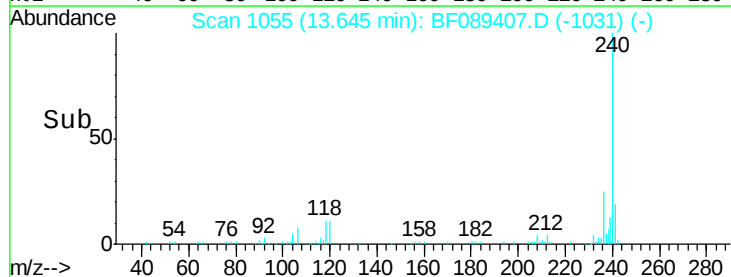
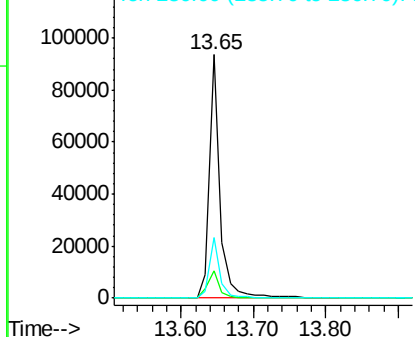


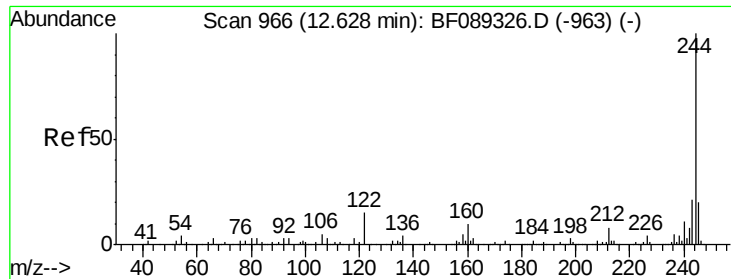
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.65 min Scan# 1055  
Delta R.T. -0.02 min  
Lab File: BF089407.D  
Acq: 29 Jul 2016 12:46

Tgt Ion:240 Resp: 95576  
Ion Ratio Lower Upper  
240 100  
120 11.1 9.1 13.7  
236 25.1 20.6 30.8



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

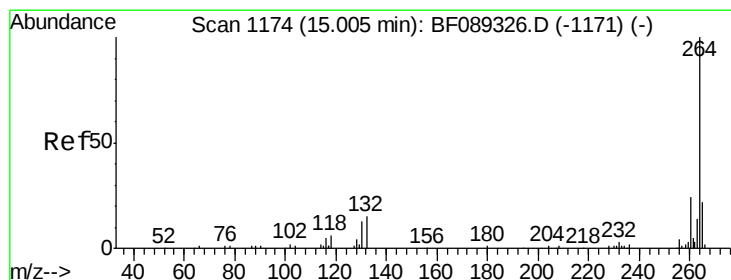
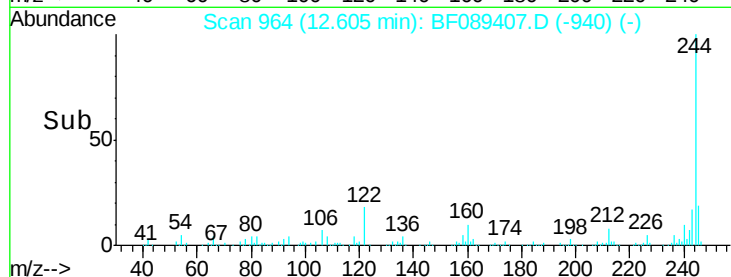
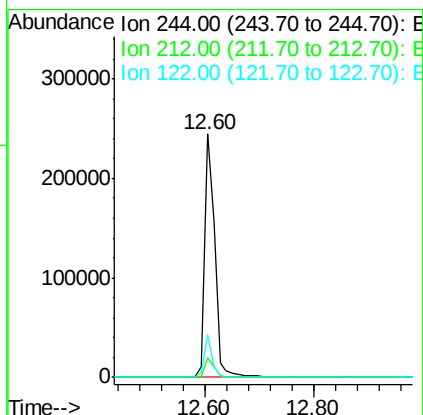
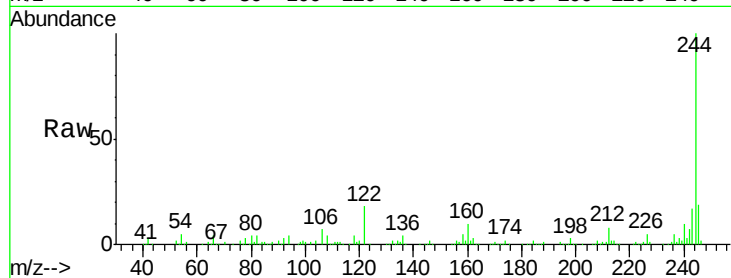




#78  
 Terphenyl-d14  
 Concen: 75.71 ng  
 RT: 12.60 min Scan# 964  
 Delta R.T. -0.02 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 309182  
 Ion Ratio Lower Upper  
 244 100  
 212 8.3 6.5 9.7  
 122 17.7 11.4 17.0#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 14.98 min Scan# 1172  
 Delta R.T. -0.02 min  
 Lab File: BF089407.D  
 Acq: 29 Jul 2016 12:46

Tgt Ion:264 Resp: 80350  
 Ion Ratio Lower Upper  
 264 100  
 260 23.0 19.0 28.4  
 265 21.4 17.5 26.3

