

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070218\  
 Data File : BF107067.D  
 Acq On : 3 Jul 2018 2:57  
 Operator : JU/SJ  
 Sample : J3800-09  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 03 03:38:42 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 29 14:38:29 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.95  | 152  | 52073    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 171884   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 75617    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.49 | 188  | 155423   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 139220   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.69 | 264  | 104314   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 212962   | 69.25  | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 157093   | 40.91  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.52  | 82   | 292165   | 94.46  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 135613   | 154.73 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.31  | 172  | 518155   | 122.49 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.08 | 244  | 698535   | 121.54 | ng    | 0.00     |

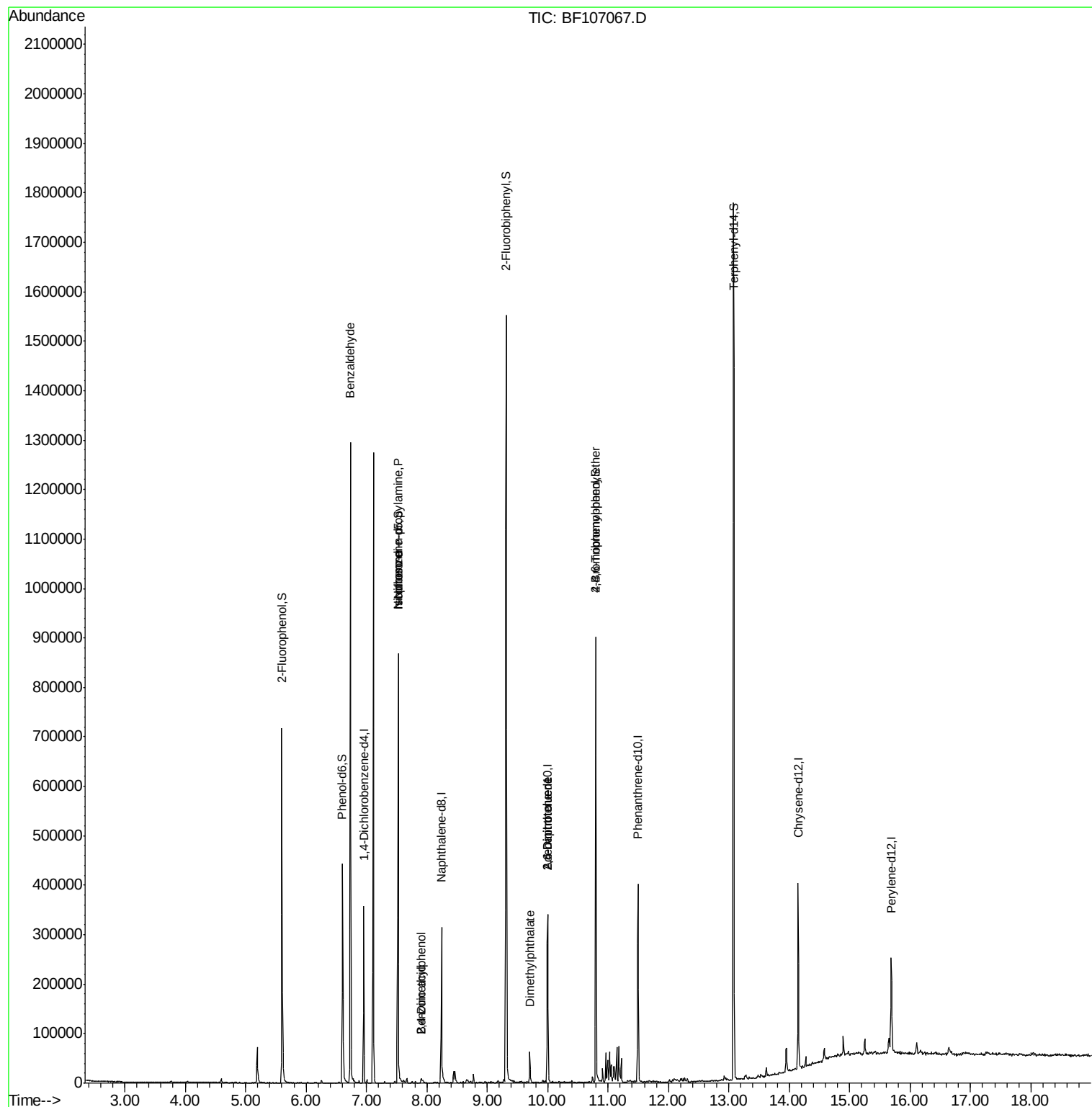
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.74  | 77   | 6872     | 2.132  | ng    | 93     |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 37418    | 14.781 | ng    | # 73   |
| 25) Isophorone                 | 7.52  | 82   | 292160   | 53.606 | ng    | # 64   |
| 27) 2,4-Dimethylphenol         | 7.91  | 122  | 5364     | 2.328  | ng    | 91     |
| 32) Benzoic acid               | 7.91  | 122  | 5364     | 8.550  | ng    | # 14   |
| 49) Dimethylphthalate          | 9.71  | 163  | 31282    | 5.516  | ng    | # 99   |
| 50) 2,6-Dinitrotoluene         | 10.00 | 165  | 9321     | 7.761  | ng    | # 24   |
| 56) 2,4-Dinitrotoluene         | 10.00 | 165  | 9321     | 5.946  | ng    | # 21   |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 8325     | 4.488  | ng    | # 1    |

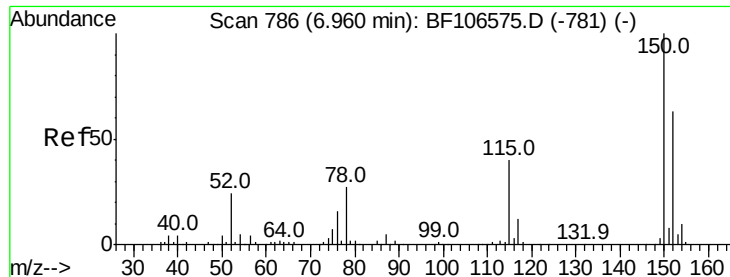
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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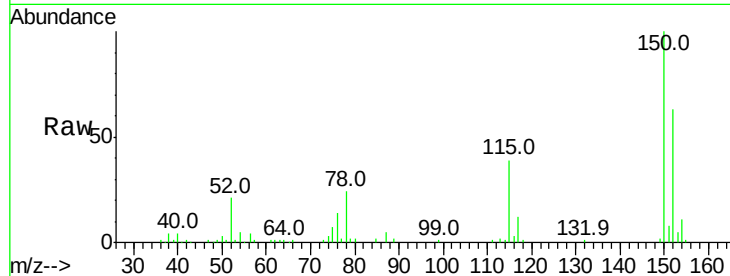


#1

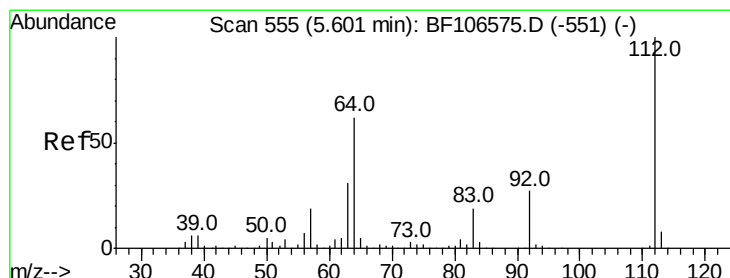
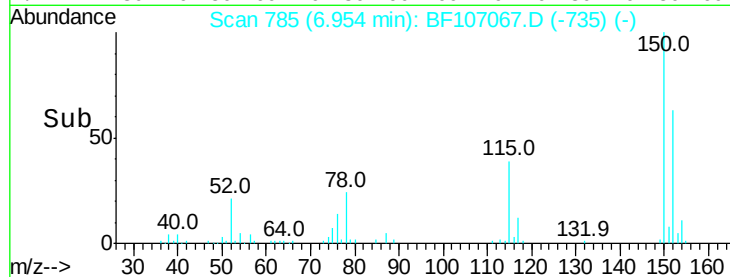
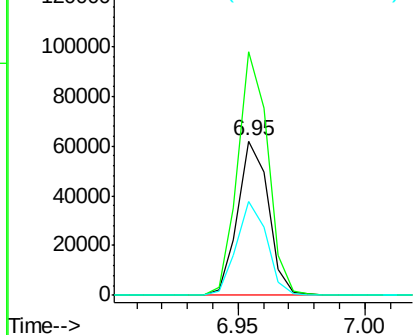
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.95 min Scan# 785  
 Delta R.T. -0.01 min  
 Lab File: BF107067.D  
 Acq: 3 Jul 2018 2:57

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 52073  
 Ion Ratio Lower Upper  
 152 100  
 150 158.0 124.6 186.8  
 115 61.3 50.1 75.1



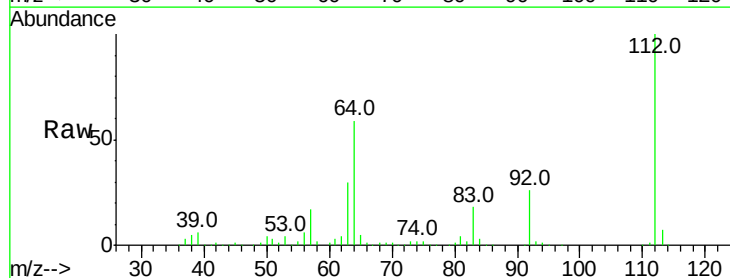
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



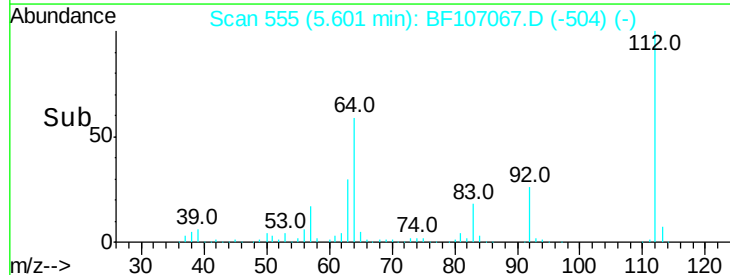
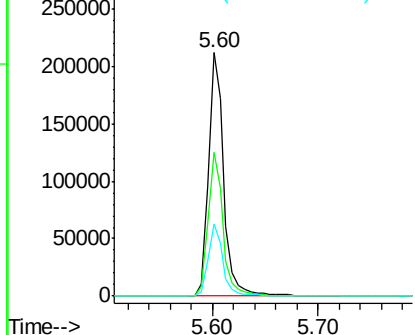
#5

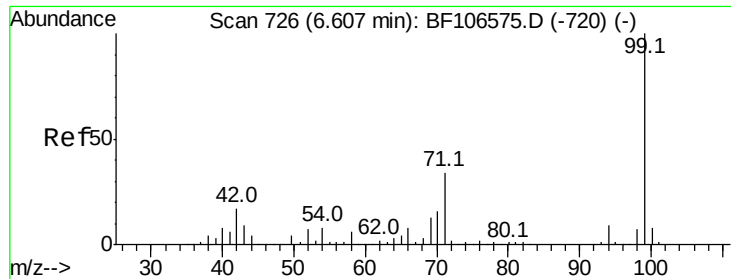
2-Fluorophenol  
 Concen: 69.251 ng  
 RT: 5.60 min Scan# 555  
 Delta R.T. -0.00 min  
 Lab File: BF107067.D  
 Acq: 3 Jul 2018 2:57

Tgt Ion:112 Resp: 212962  
 Ion Ratio Lower Upper  
 112 100  
 64 59.2 47.9 71.9  
 63 29.7 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: 40.906 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107067.D

Acq: 3 Jul 2018 2:57

Instrument :

BNA\_F

ClientSampleId :

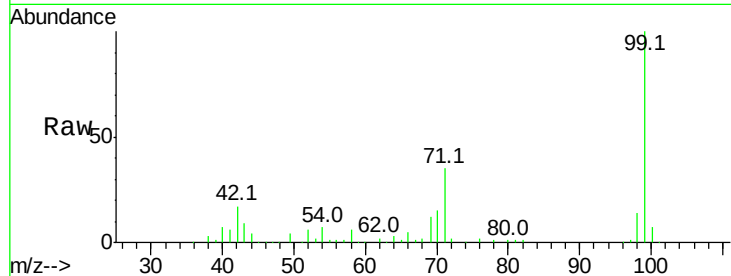
Tot Ion: 99 Resp: 157093

Ion Ratio Lower Upper

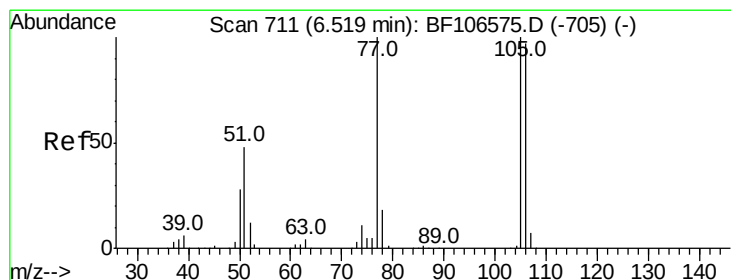
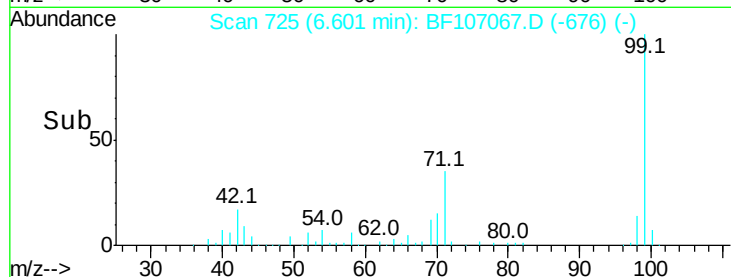
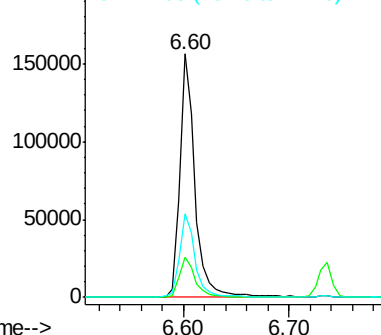
99 100

42 16.7 14.5 21.7

71 34.6 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.132 ng

RT: 6.74 min Scan# 748

Delta R.T. 0.22 min

Lab File: BF107067.D

Acq: 3 Jul 2018 2:57

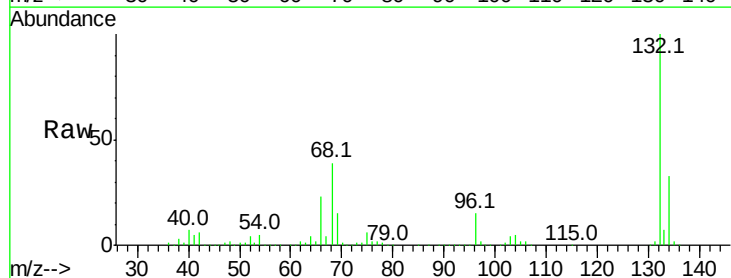
Tgt Ion: 77 Resp: 6872

Ion Ratio Lower Upper

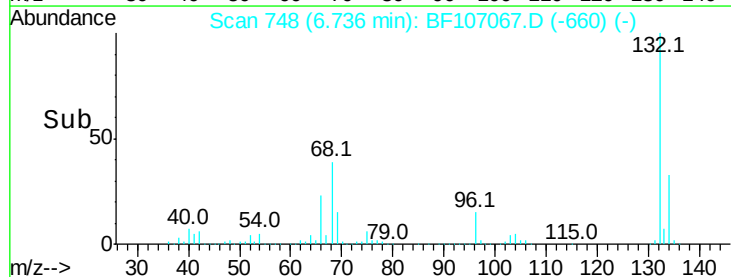
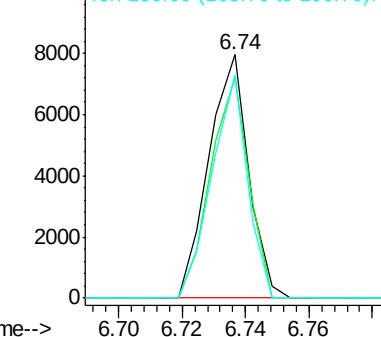
77 100

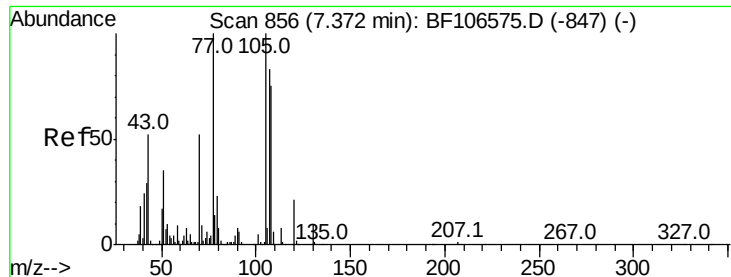
105 90.5 81.1 121.1

106 91.5 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1

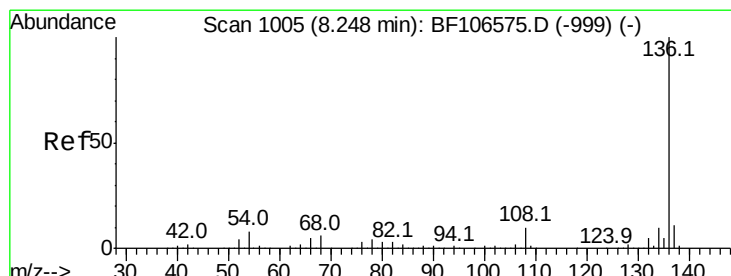
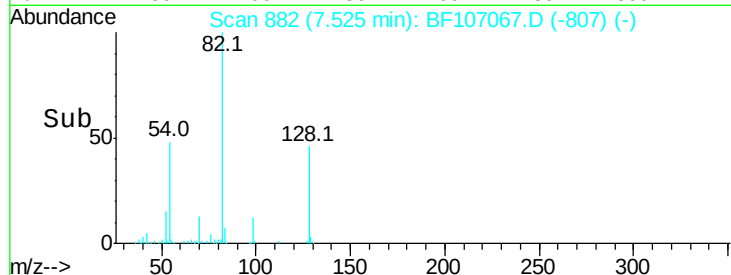
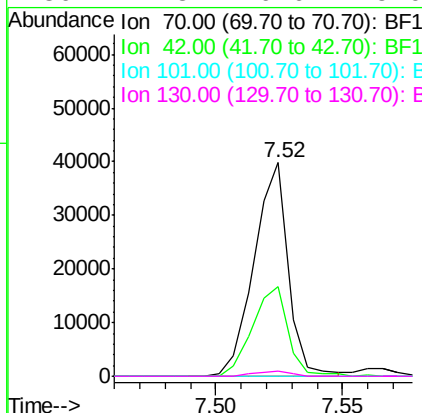
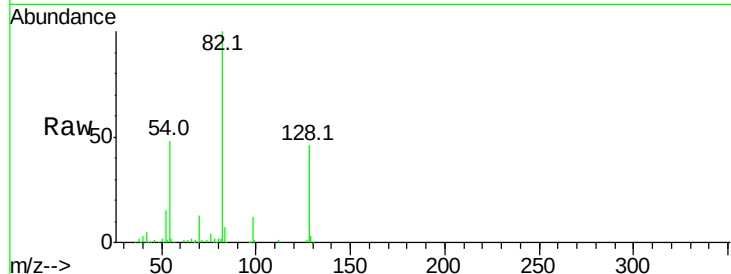




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.781 ng  
RT: 7.52 min Scan# 882  
Delta R.T. 0.14 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

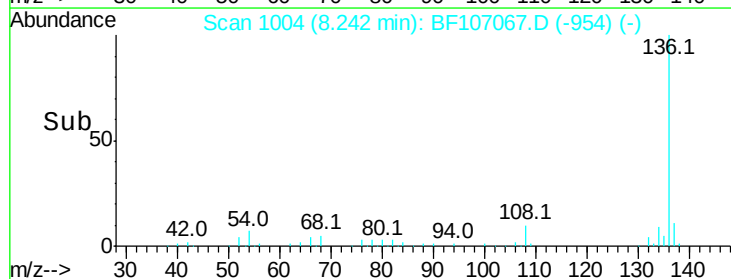
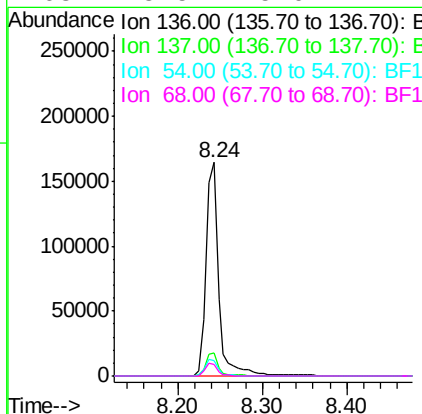
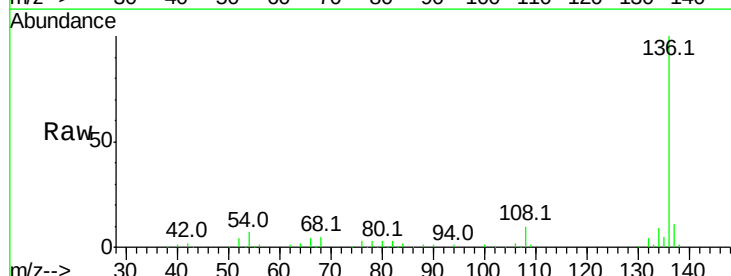
Instrument :  
BNA\_F  
ClientSampleId :

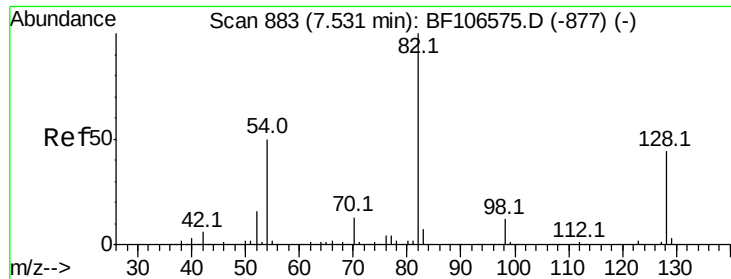
Tot Ion: 70 Resp: 37418  
Ion Ratio Lower Upper  
70 100  
42 42.2 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.3 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1004  
Delta R.T. -0.01 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

Tgt Ion: 136 Resp: 171884  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.9 13.3  
54 7.1 6.6 9.8  
68 5.5 5.0 7.4

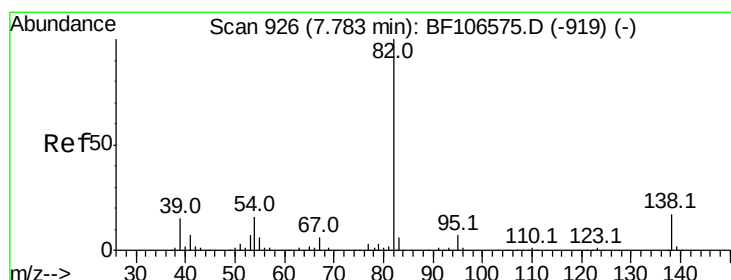
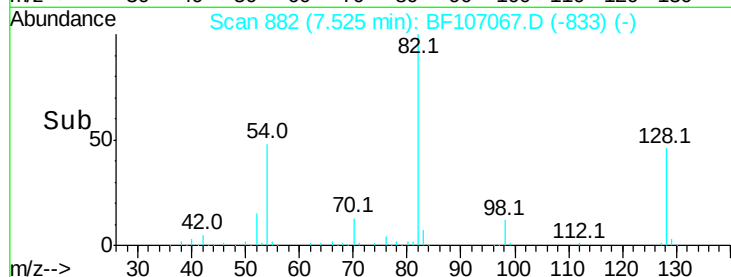
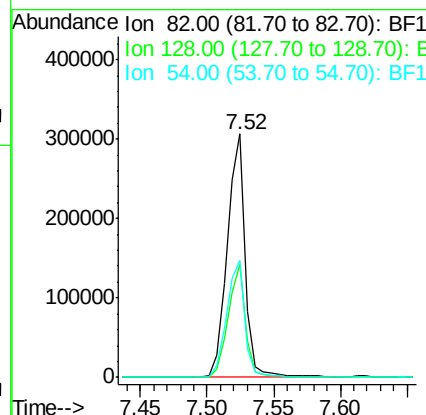
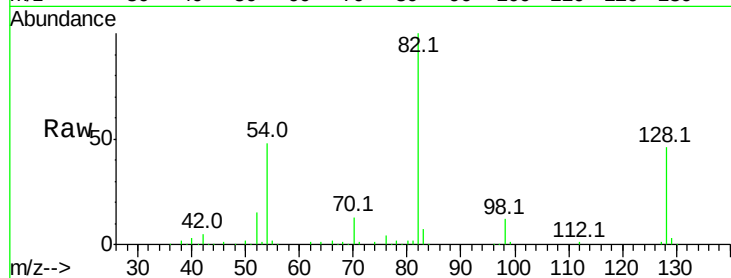




#23  
Nitrobenzene-d5  
Concen: 94.463 ng  
RT: 7.52 min Scan# 882  
Delta R.T. -0.01 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

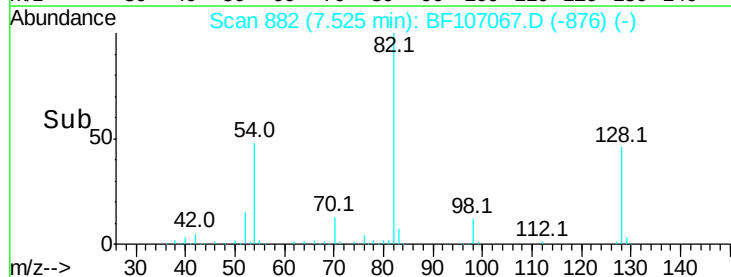
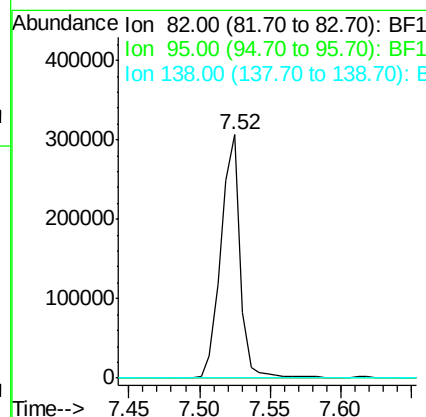
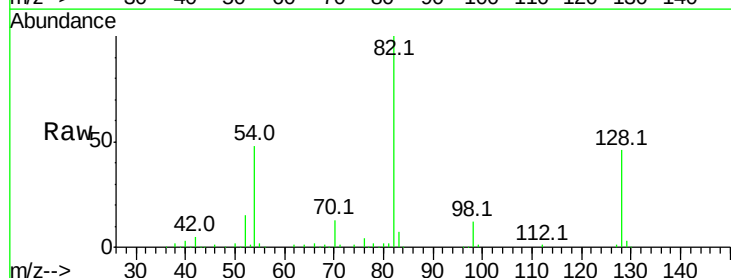
Instrument :  
BNA\_F  
ClientSampleId :

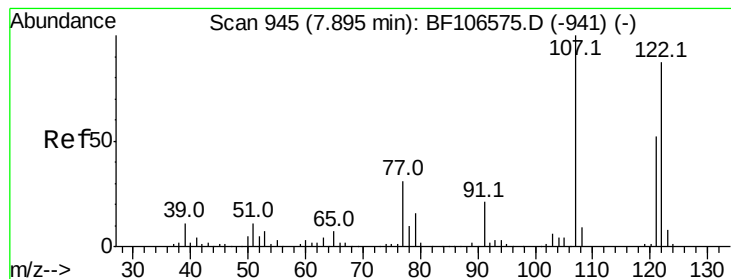
| Tot Ion   | 82   | Resp  | 292165 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 46.3 | 36.1  | 54.1   |
| 54        | 47.8 | 41.4  | 62.2   |



#25  
Isophorone  
Concen: 53.606 ng  
RT: 7.52 min Scan# 882  
Delta R.T. -0.26 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

| Tgt Ion   | 82  | Resp  | 292160 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 95        | 0.0 | 5.2   | 7.8#   |
| 138       | 0.0 | 14.9  | 22.3#  |





#27

2,4-Dimethylphenol

Concen: 2.328 ng

RT: 7.91 min Scan# 947

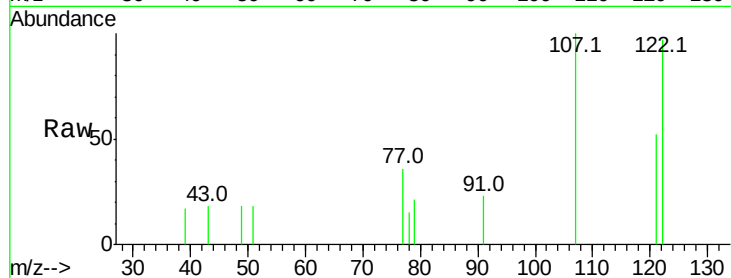
Delta R.T. 0.01 min

Lab File: BF107067.D

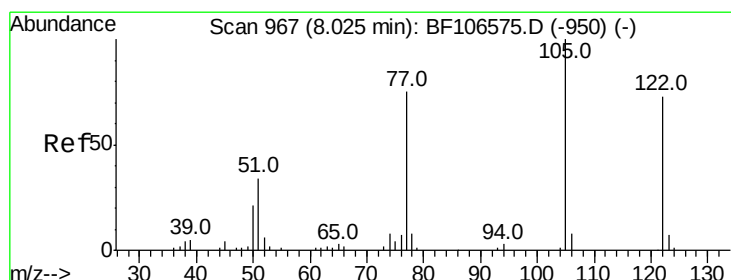
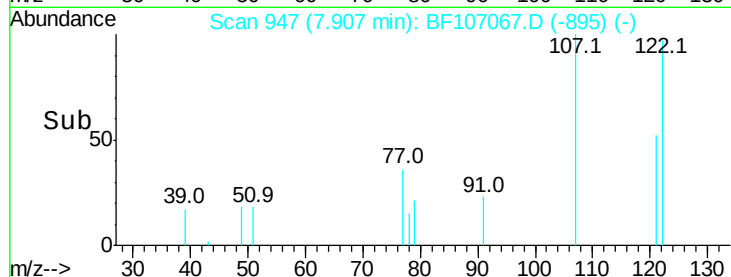
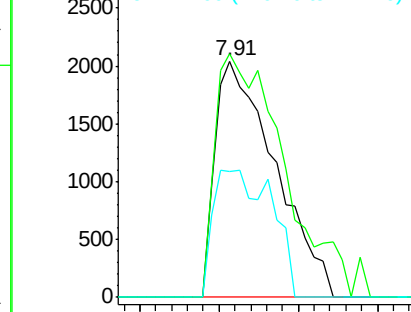
Acq: 3 Jul 2018 2:57

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:122 Resp: 5364  
Ion Ratio Lower Upper  
122 100  
107 103.1 91.2 136.8  
121 53.3 47.2 70.8



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E



#32

Benzoic acid

Concen: 8.550 ng

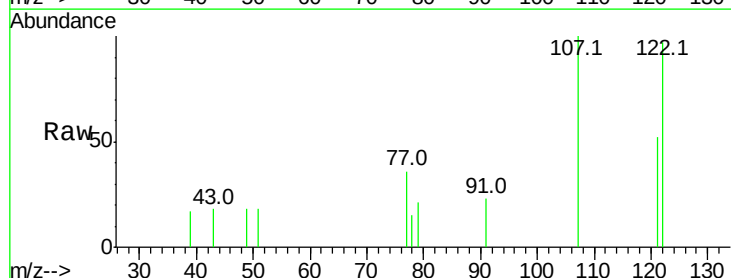
RT: 7.91 min Scan# 947

Delta R.T. -0.14 min

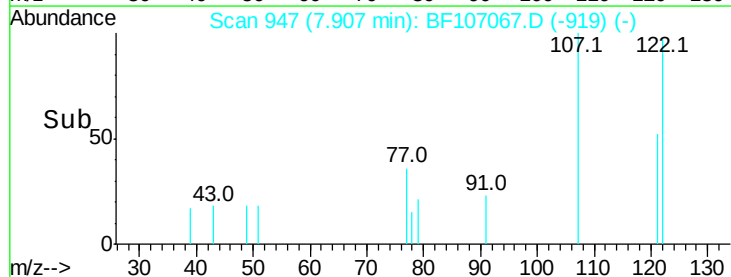
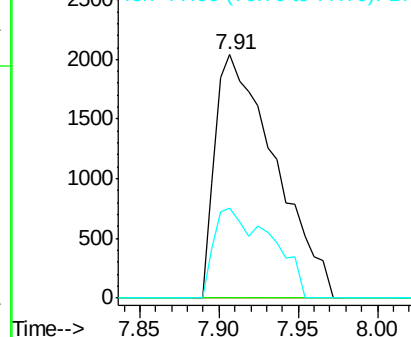
Lab File: BF107067.D

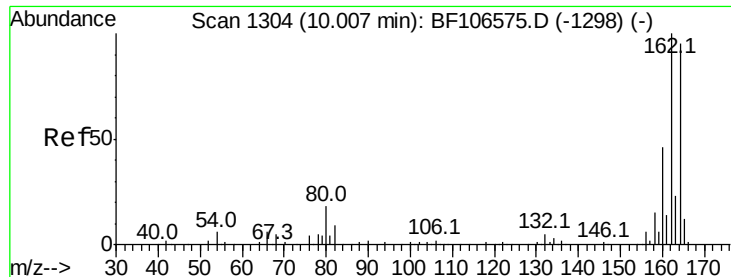
Acq: 3 Jul 2018 2:57

Tgt Ion:122 Resp: 5364  
Ion Ratio Lower Upper  
122 100  
105 0.0 101.1 141.1#  
77 36.9 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF107067.D

Acq: 3 Jul 2018 2:57

Instrument :

BNA\_F

ClientSampled :

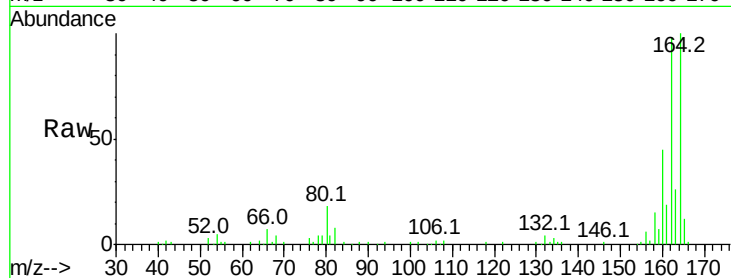
Tot Ion:164 Resp: 75617

Ion Ratio Lower Upper

164 100

162 98.1 86.1 129.1

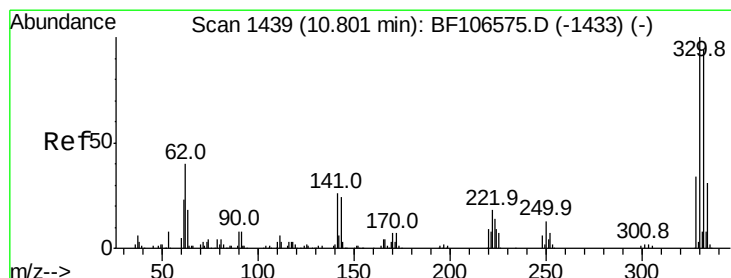
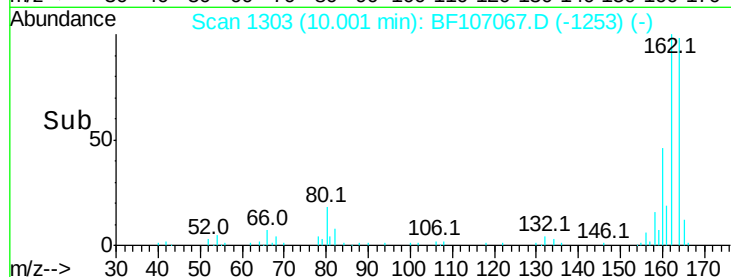
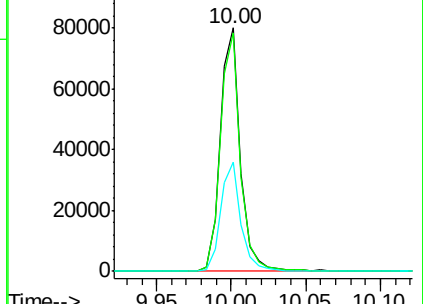
160 44.6 38.3 57.5



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: 154.735 ng

RT: 10.80 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF107067.D

Acq: 3 Jul 2018 2:57

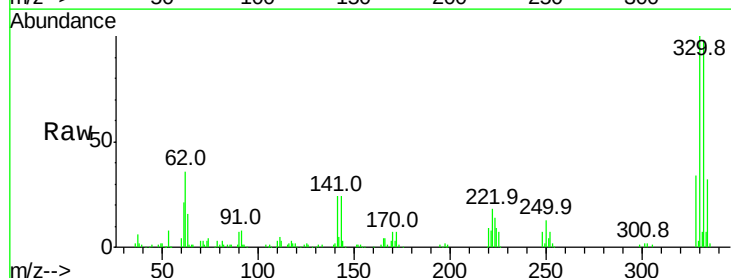
Tgt Ion:330 Resp: 135613

Ion Ratio Lower Upper

330 100

332 96.9 77.0 115.6

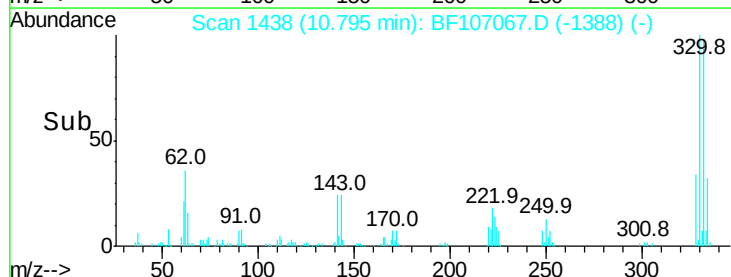
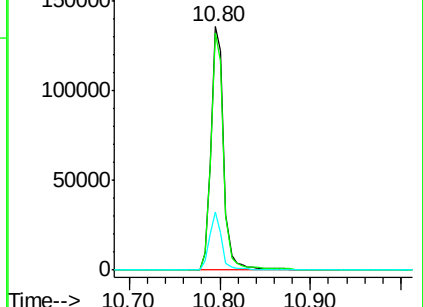
141 22.8 29.9 44.9#



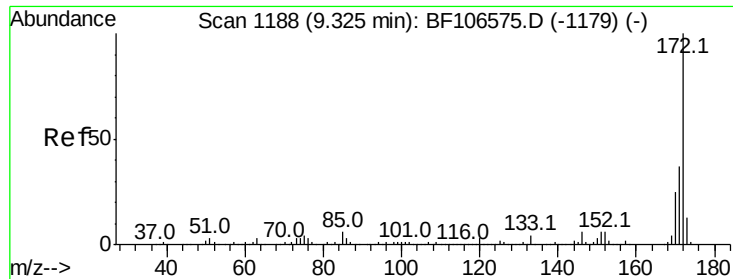
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



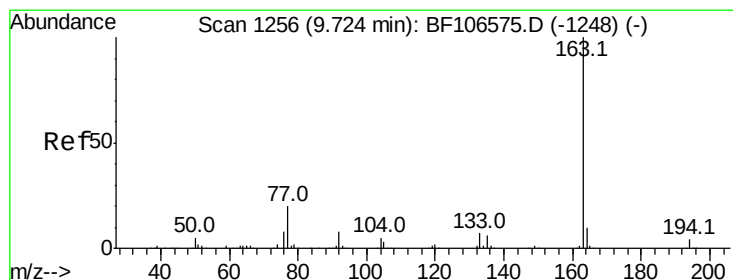
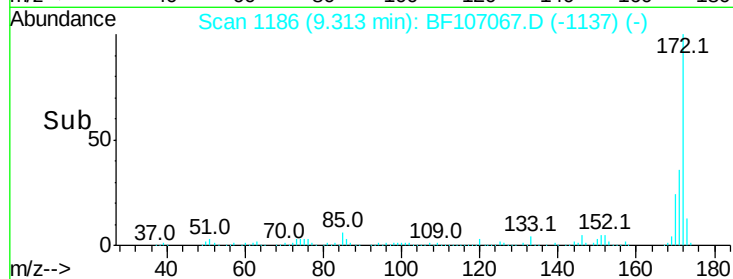
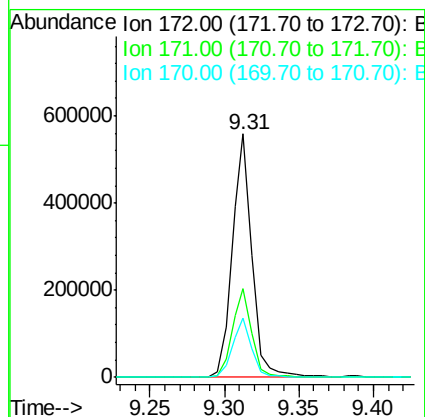
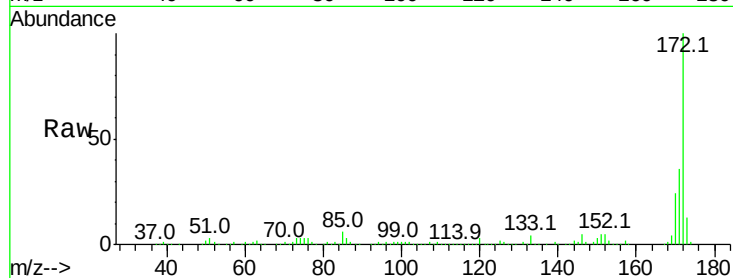




#44  
2-Fluorobiphenyl  
Concen: 122.491 ng  
RT: 9.31 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

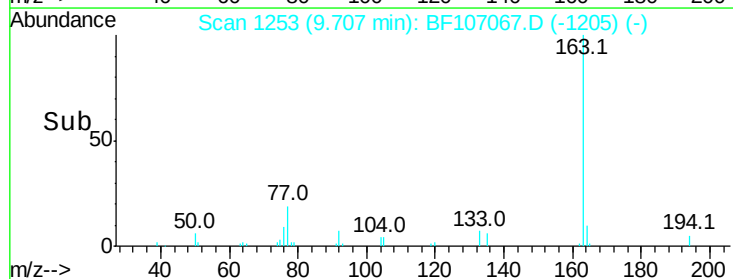
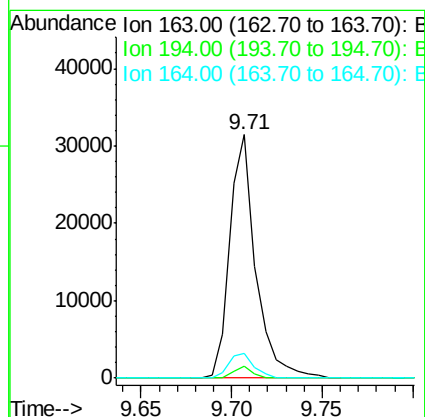
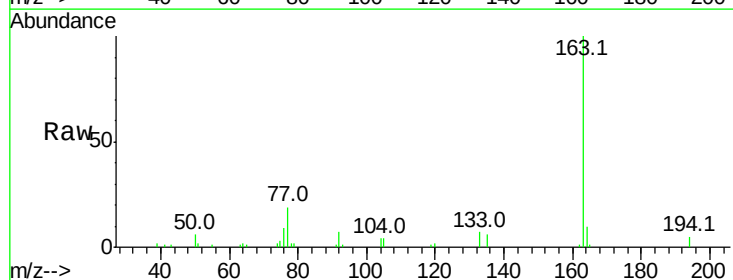
Instrument :  
BNA\_F  
ClientSampleId :

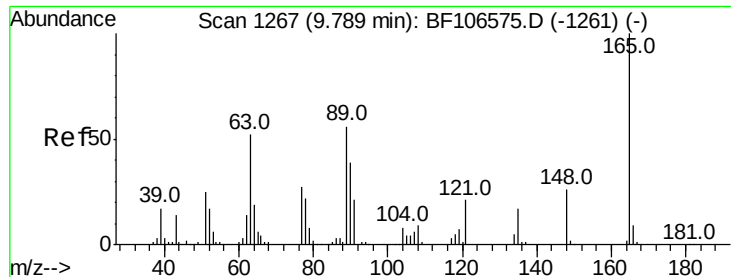
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.7  | 44.5  |
| 170     | 24.2  | 19.6  | 29.4  |



#49  
Dimethylphthalate  
Concen: 5.516 ng  
RT: 9.71 min Scan# 1253  
Delta R.T. -0.02 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.7   | 2.7   | 4.1#  |
| 164     | 10.0  | 8.2   | 12.2  |

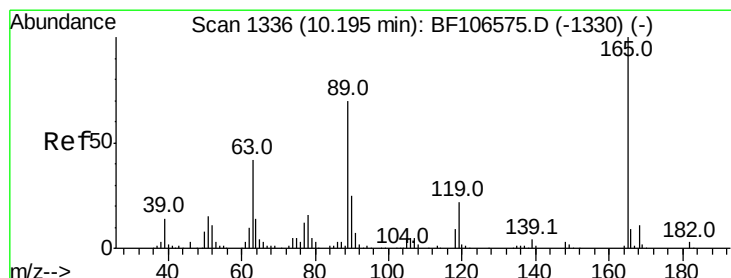
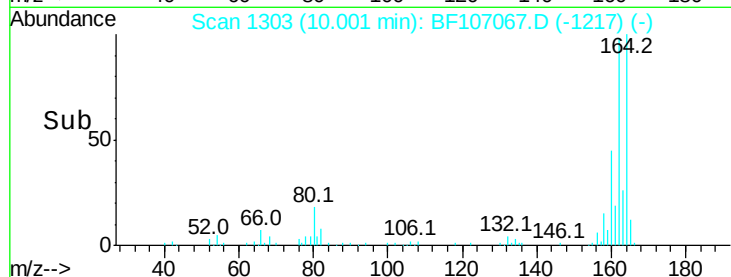
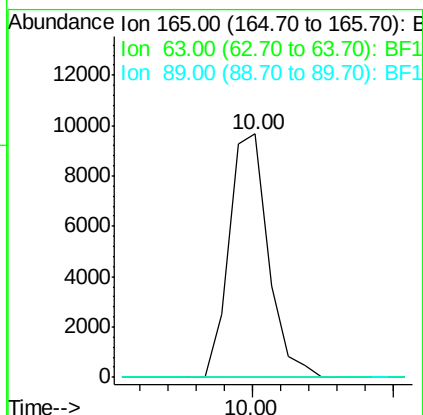
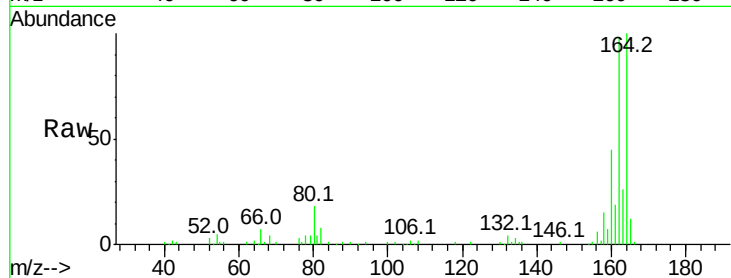




#50  
 2,6-Dinitrotoluene  
 Concen: 7.761 ng  
 RT: 10.00 min Scan# 1303  
 Delta R.T. 0.21 min  
 Lab File: BF107067.D  
 Acq: 3 Jul 2018 2:57

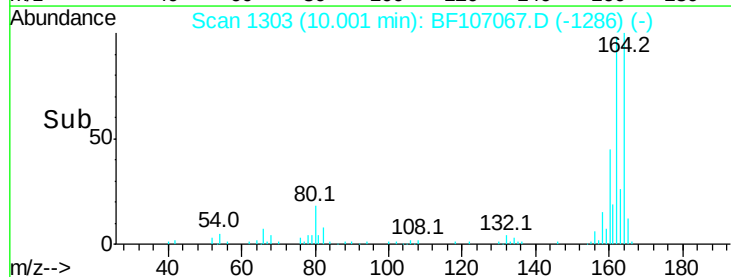
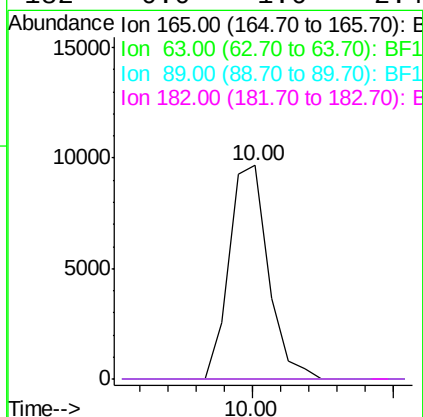
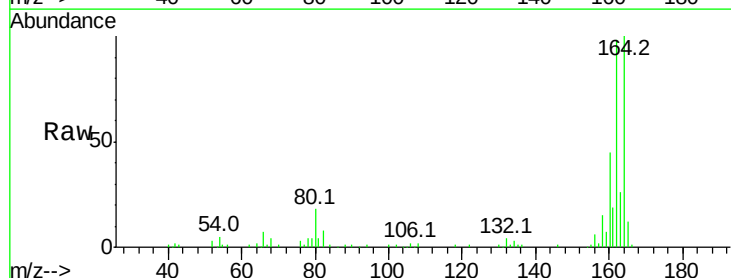
Instrument :  
 BNA\_F  
 ClientSampleId :

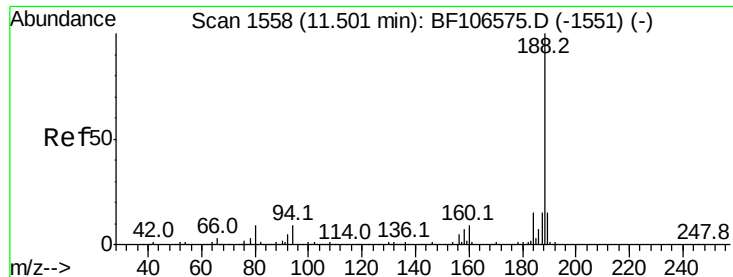
Tot Ion:165 Resp: 9321  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 44.7 67.1#  
 89 0.0 44.0 66.0#



#56  
 2,4-Dinitrotoluene  
 Concen: 5.946 ng  
 RT: 10.00 min Scan# 1303  
 Delta R.T. -0.20 min  
 Lab File: BF107067.D  
 Acq: 3 Jul 2018 2:57

Tgt Ion:165 Resp: 9321  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 36.4 54.6#  
 89 0.0 57.8 86.6#  
 182 0.0 1.6 2.4#

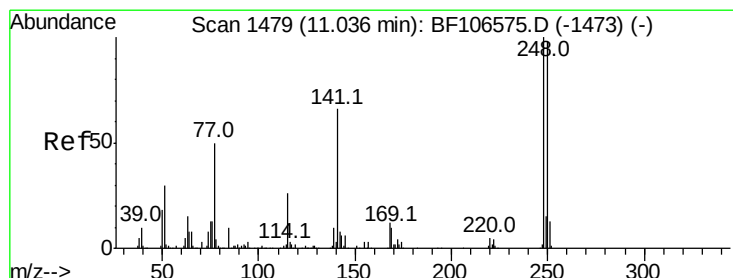
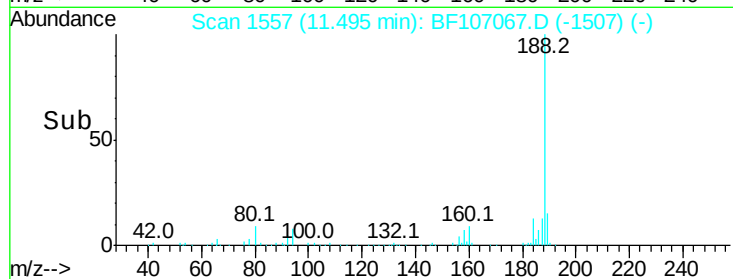
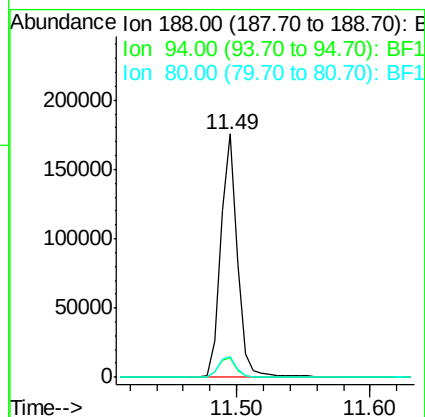
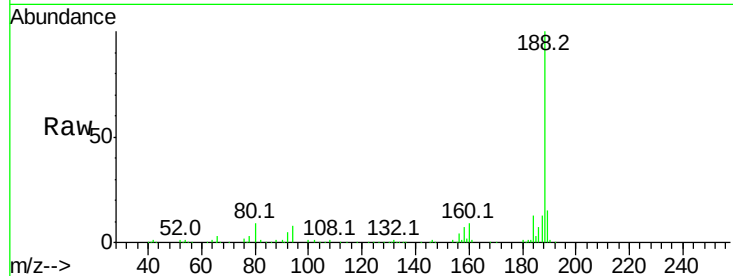




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

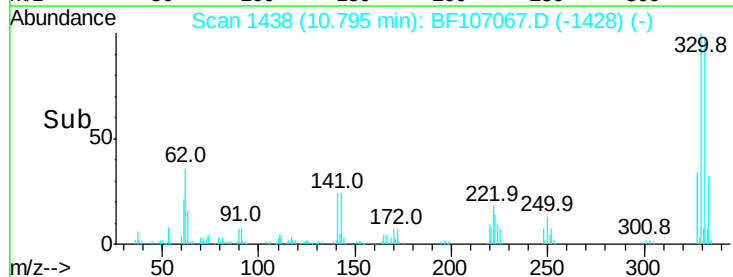
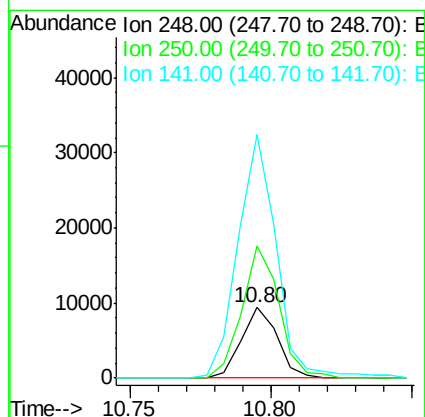
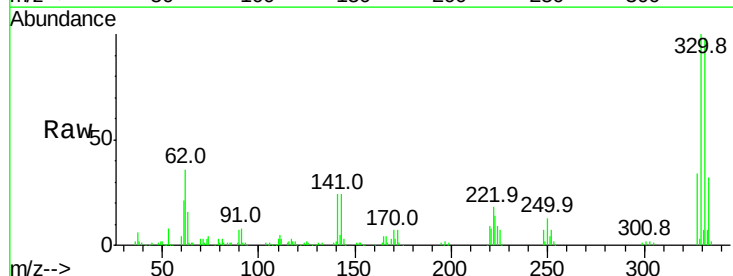
Instrument :  
BNA\_F  
ClientSampleId :

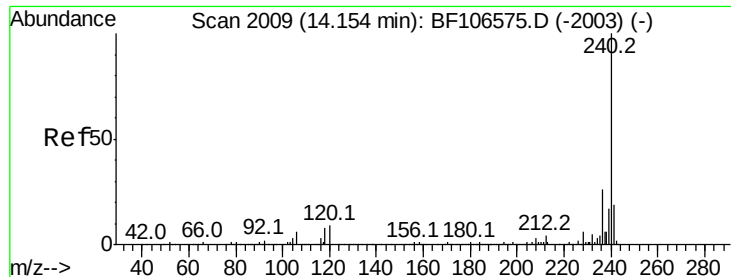
Tot Ion:188 Resp: 155423  
Ion Ratio Lower Upper  
188 100  
94 8.2 8.5 12.7#  
80 8.8 9.2 13.8#



#66  
4-Bromophenyl-phenylether  
Concen: 4.488 ng  
RT: 10.80 min Scan# 1438  
Delta R.T. -0.24 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

Tgt Ion:248 Resp: 8325  
Ion Ratio Lower Upper  
248 100  
250 187.7 76.9 115.3#  
141 346.8 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2008

Delta R.T. -0.02 min

Lab File: BF107067.D

Acq: 3 Jul 2018 2:57

Instrument :

BNA\_F

ClientSampleId :

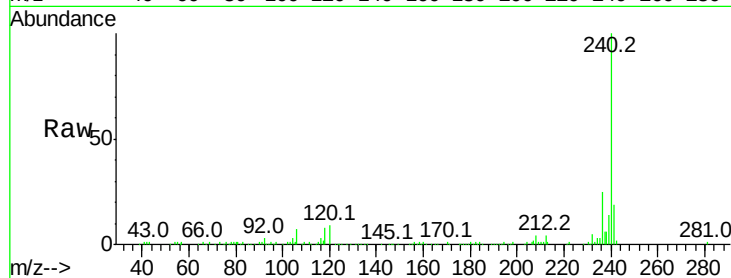
Tot Ion:240 Resp: 139220

Ion Ratio Lower Upper

240 100

120 8.9 9.5 14.3#

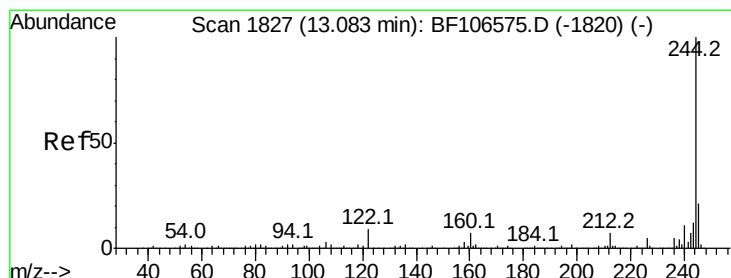
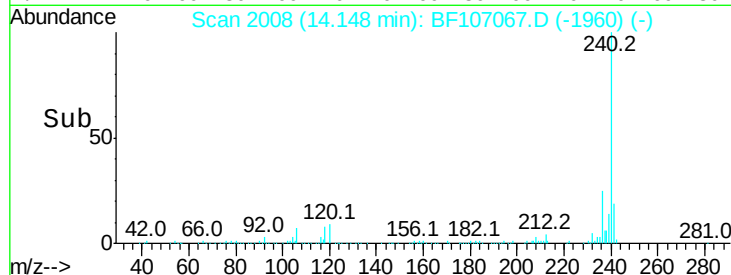
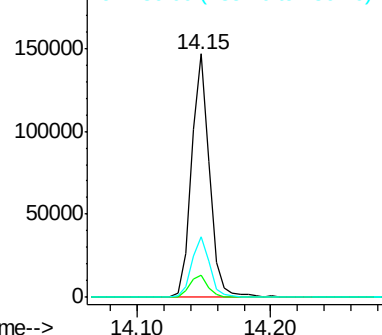
236 25.1 20.7 31.1



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: 121.539 ng

RT: 13.08 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF107067.D

Acq: 3 Jul 2018 2:57

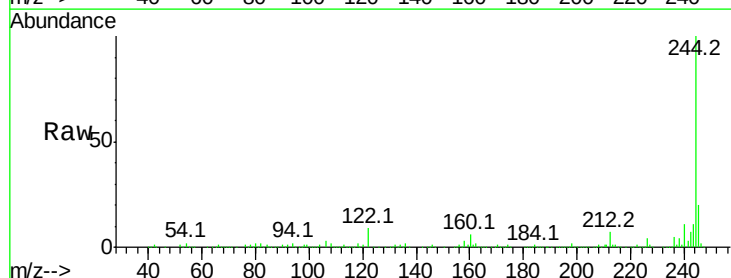
Tgt Ion:244 Resp: 698535

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

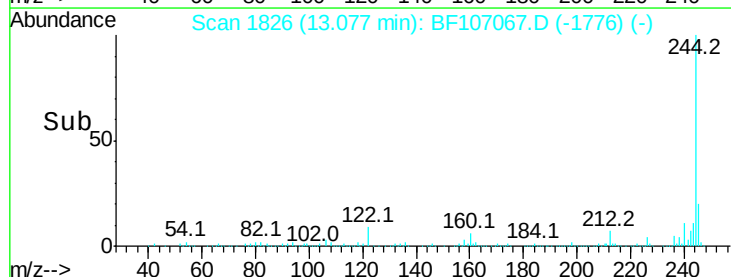
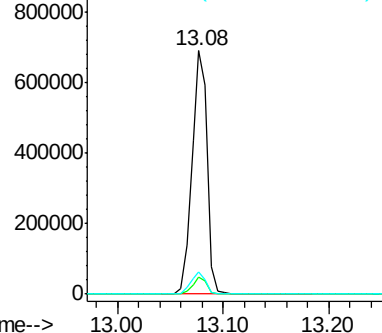
122 9.1 11.0 16.4#

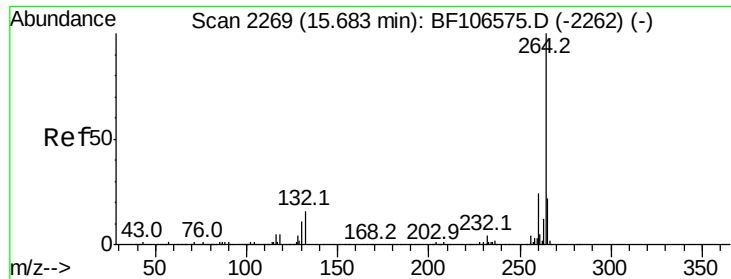


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

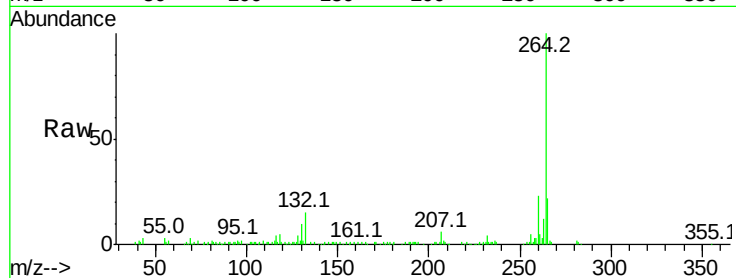




#86  
Pervlone-d12  
Concen: 20.000 ng  
RT: 15.69 min Scan# 2270  
Delta R.T. -0.03 min  
Lab File: BF107067.D  
Acq: 3 Jul 2018 2:57

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.9  | 17.5  | 26.3  |



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

