

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF120617\  
 Data File : BF101193.D  
 Acq On : 7 Dec 2017 3:38  
 Operator : SJ/JU  
 Sample : I6656-06 2X  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-2-E(0-1)

Quant Time: Dec 07 04:32:40 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 04 13:07:49 2017  
 Response via : Initial Calibration

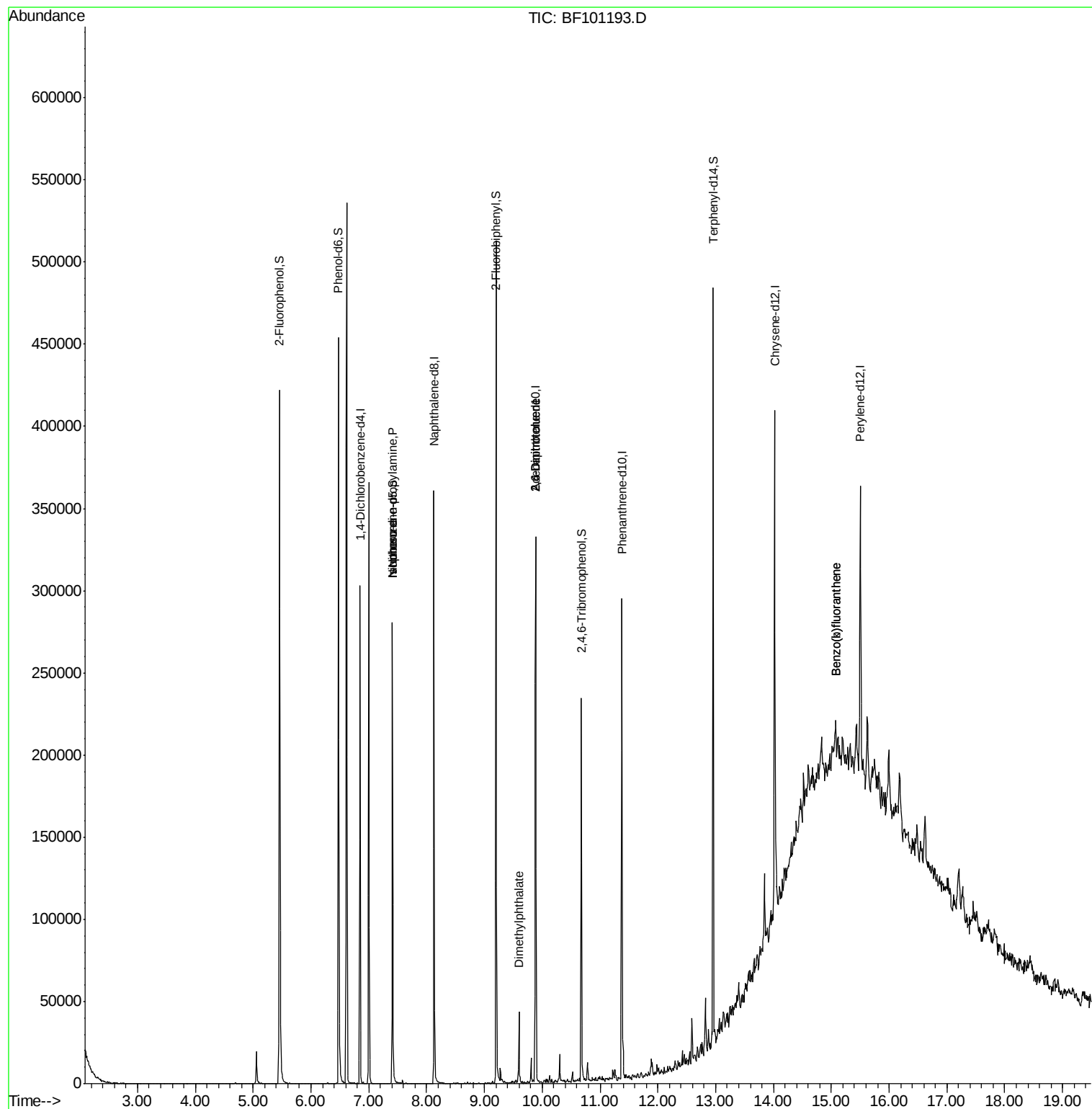
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 42785    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 154822   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.89  | 164  | 62454    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.37 | 188  | 104004   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.02 | 240  | 100860   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.50 | 264  | 77108    | 20.00  | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 121909   | 47.08  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 141161   | 44.91  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 83858    | 32.31  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 28616    | 38.14  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 177207   | 38.82  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.96 | 244  | 140347   | 30.44  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 10687    | 5.048  | ng    | # 78     |
| 25) Isophorone                 | 7.41  | 82   | 83857    | 18.916 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.60  | 163  | 18387    | 3.651  | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.89  | 165  | 7699     | 7.257  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 7699     | 5.415  | ng    | # 21     |
| 87) Benzo(b)fluoranthene       | 15.07 | 252  | 9759     | 2.113  | ng    | # 32     |
| 88) Benzo(k)fluoranthene       | 15.07 | 252  | 9759     | 2.145  | ng    | # 35     |

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

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Sample : I6656-06 2X  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
BART-2-E(0-1)

Quant Time: Dec 07 04:32:40 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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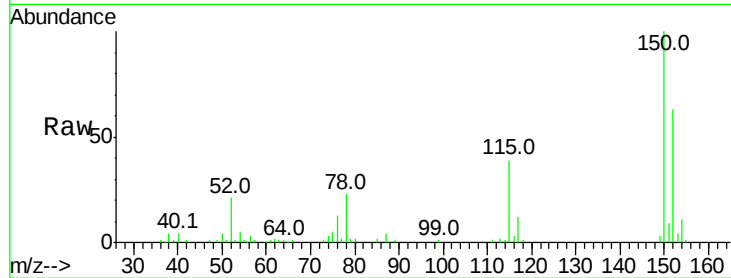


#1

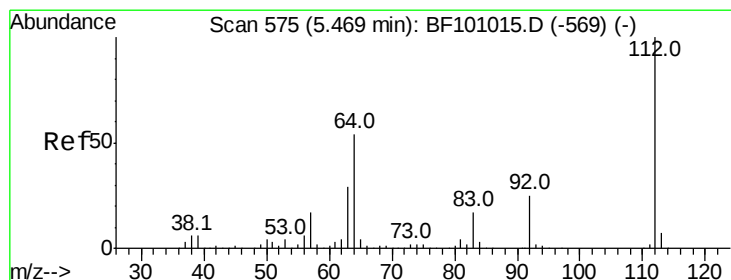
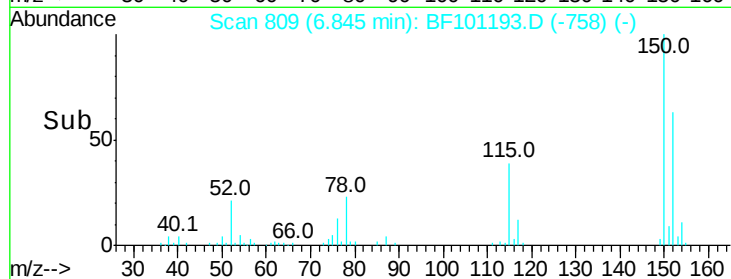
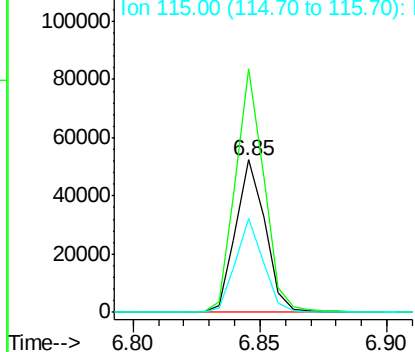
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 809  
 Delta R.T. 0.00 min  
 Lab File: BF101193.D  
 Acq: 7 Dec 2017 3:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-2-E(0-1)

Tot Ion:152 Resp: 42785  
 Ion Ratio Lower Upper  
 152 100  
 150 159.8 124.6 186.8  
 115 62.0 50.1 75.1



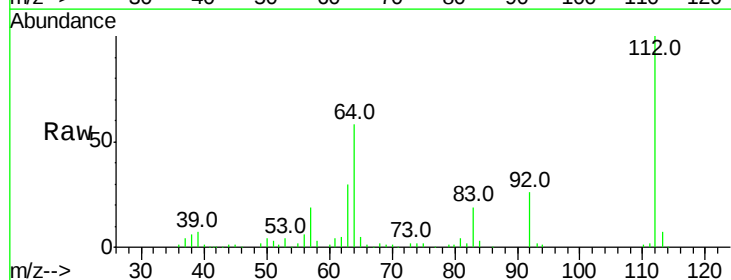
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



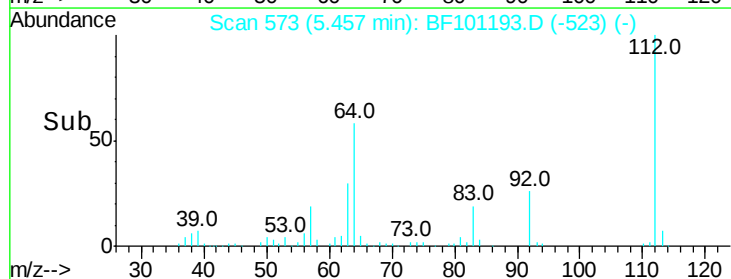
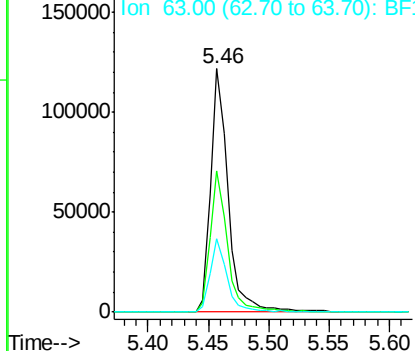
#5

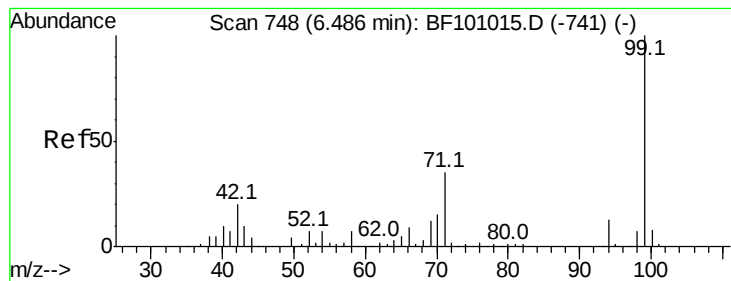
2-Fluorophenol  
 Concen: 47.084 ng  
 RT: 5.46 min Scan# 573  
 Delta R.T. -0.01 min  
 Lab File: BF101193.D  
 Acq: 7 Dec 2017 3:38

Tgt Ion:112 Resp: 121909  
 Ion Ratio Lower Upper  
 112 100  
 64 58.0 47.9 71.9  
 63 30.3 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: 44.905 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

Instrument :

BNA\_F

ClientSampleId :

BART-2-E(0-1)

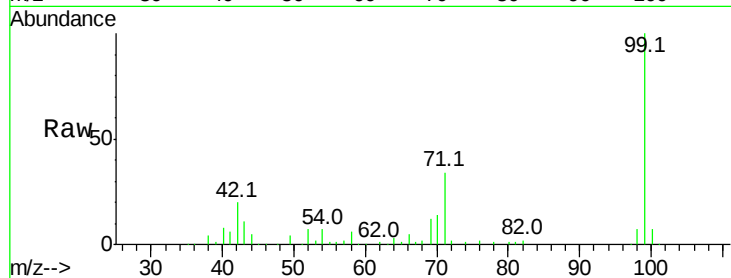
Tot Ion: 99 Resp: 141161

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

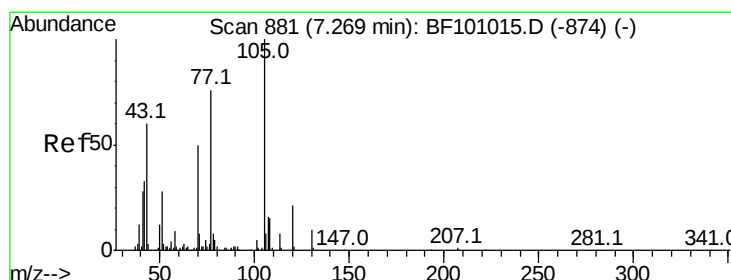
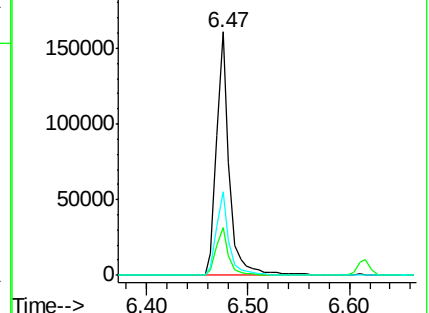
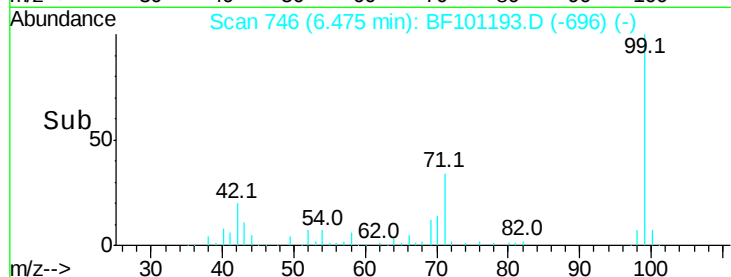
71 34.4 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 5.048 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.15 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

Tgt Ion: 70 Resp: 10687

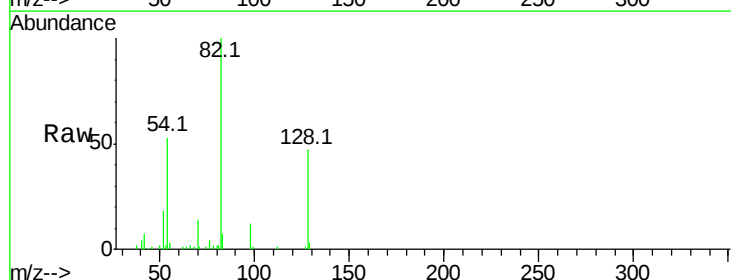
Ion Ratio Lower Upper

70 100

42 48.9 47.5 71.3

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

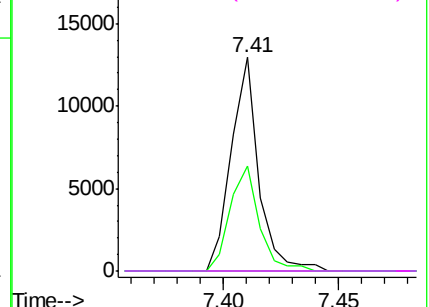
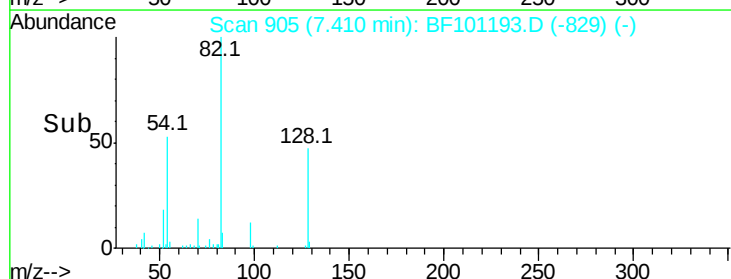


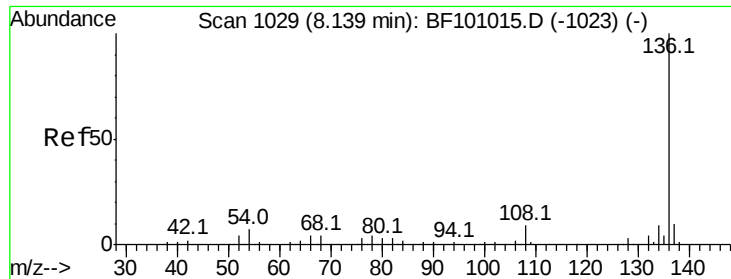
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

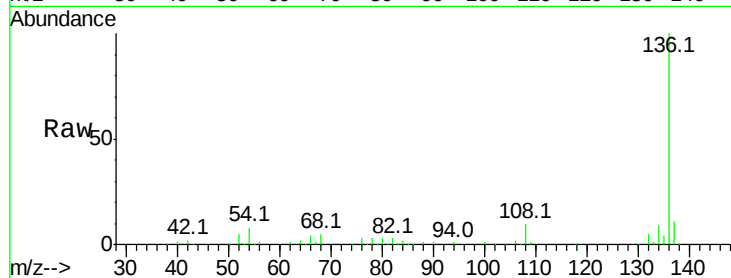




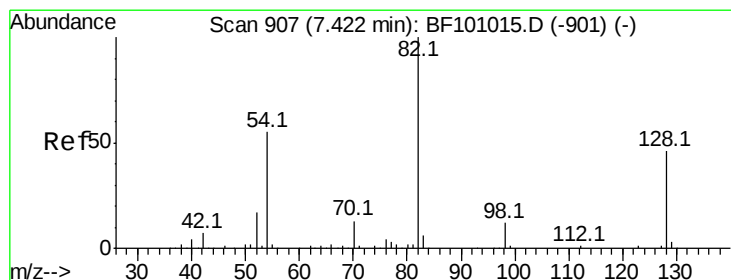
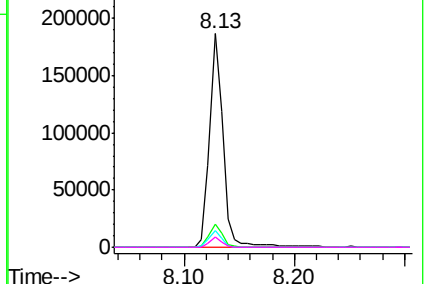
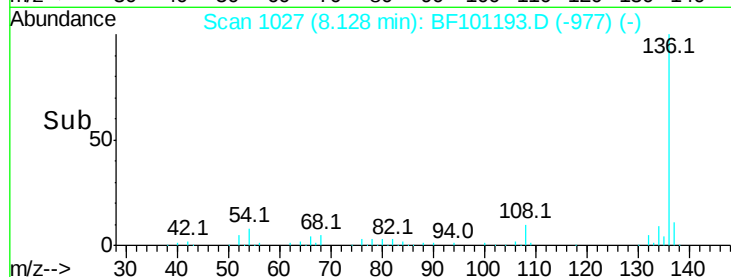
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF101193.D  
Acq: 7 Dec 2017 3:38

Instrument :  
BNA\_F  
ClientSampleId :  
BART-2-E(0-1)

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 154822 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.9   | 13.3   |
| 54       | 7.6   | 6.6   | 9.8    |
| 68       | 4.6   | 5.0   | 7.4#   |

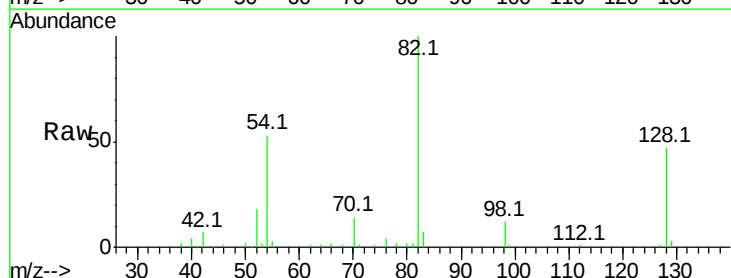


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

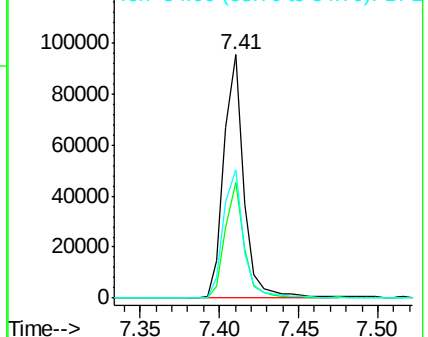
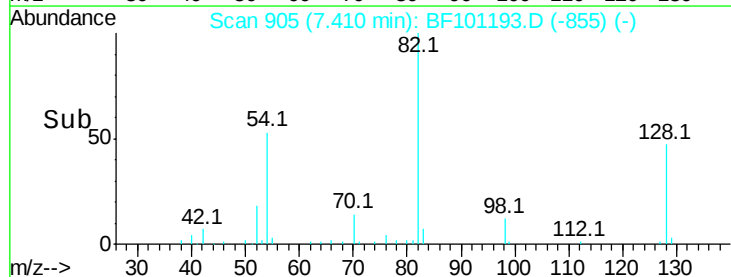


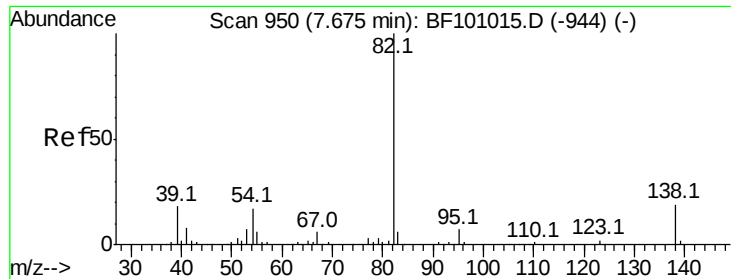
#23  
Nitrobenzene-d5  
Concen: 32.311 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF101193.D  
Acq: 7 Dec 2017 3:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 83858 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 47.4  | 36.1  | 54.1  |
| 54       | 53.0  | 41.4  | 62.2  |



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: 18.916 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.26 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

Instrument :

BNA\_F

ClientSampleId :

BART-2-E(0-1)

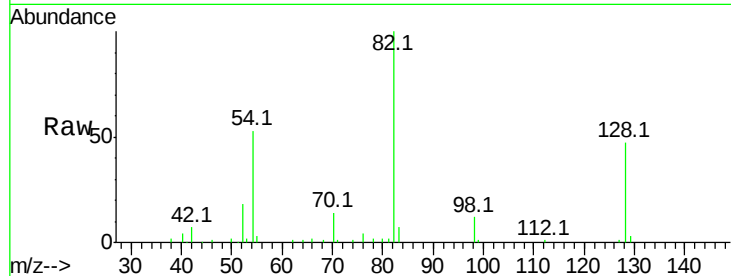
Tot Ion: 82 Resp: 83857

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

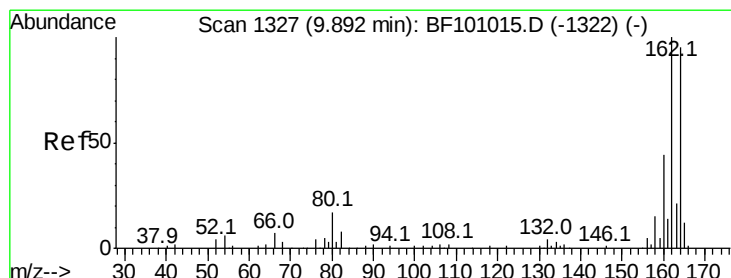
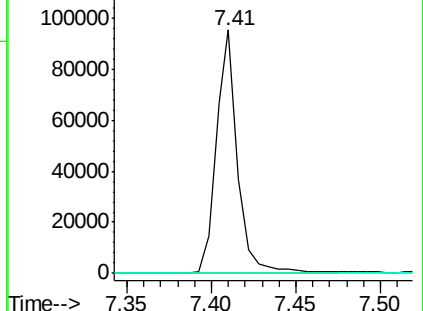
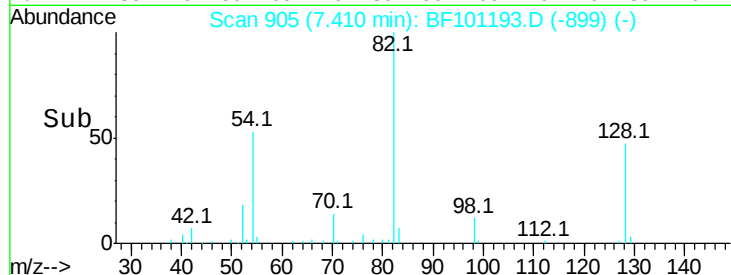
138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

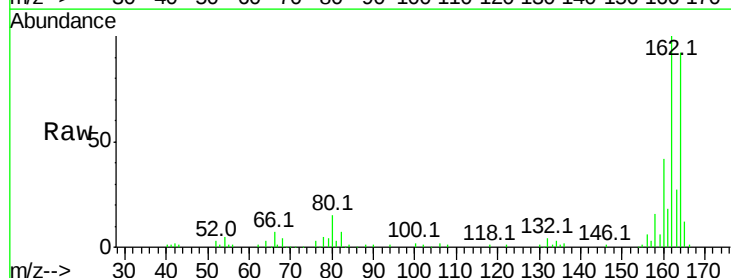
Tgt Ion:164 Resp: 62454

Ion Ratio Lower Upper

164 100

162 108.3 86.1 129.1

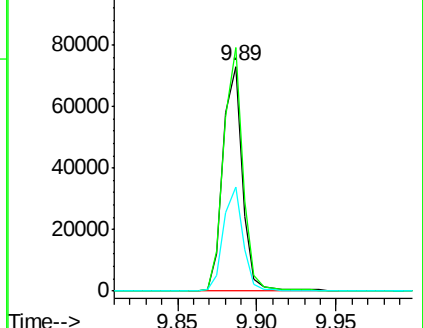
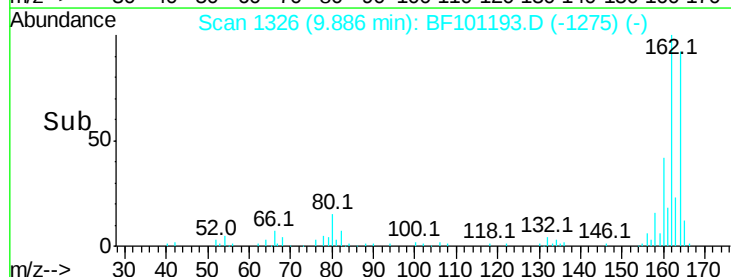
160 46.0 38.3 57.5

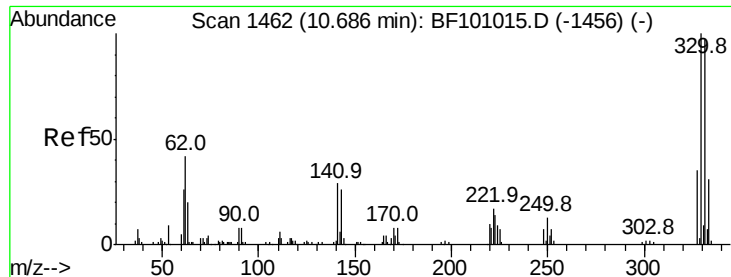


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

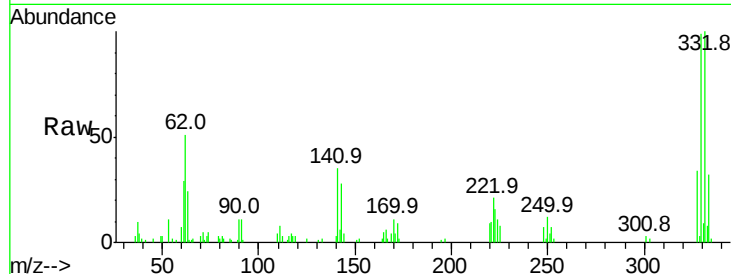




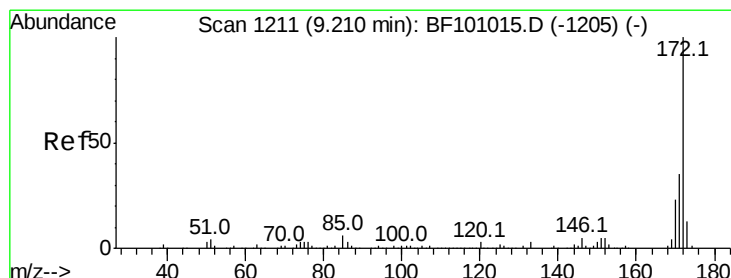
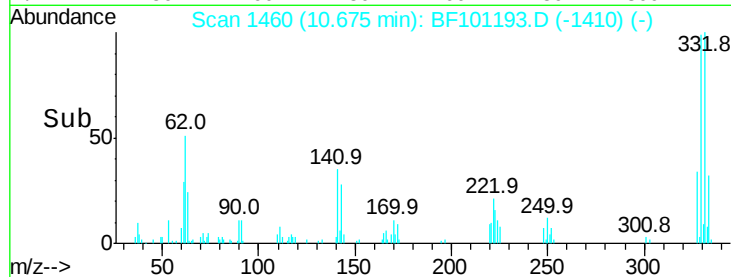
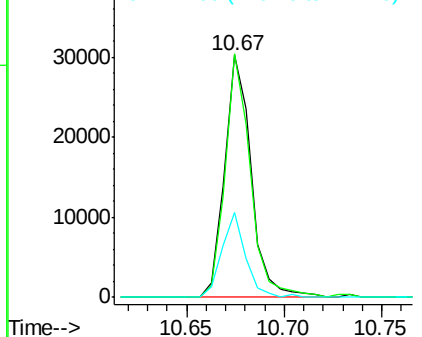
#41  
 2,4,6-Tribromophenol  
 Concen: 38.142 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.01 min  
 Lab File: BF101193.D  
 Acq: 7 Dec 2017 3:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-2-E(0-1)

Tot Ion:330 Resp: 28616  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 77.0 115.6  
 141 31.4 29.9 44.9

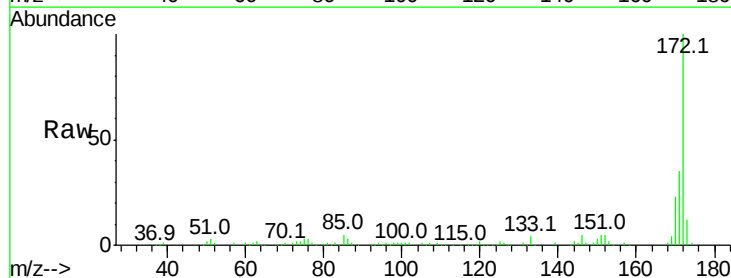


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

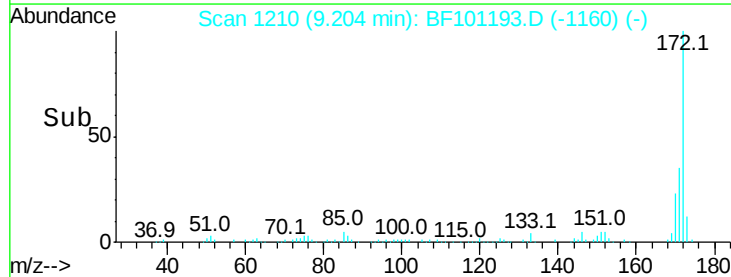
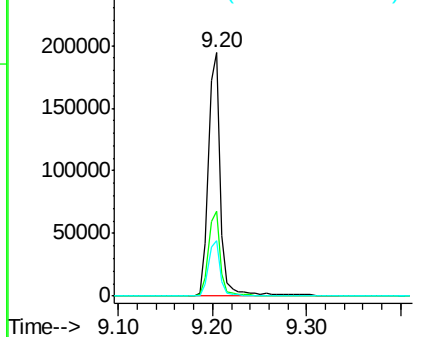


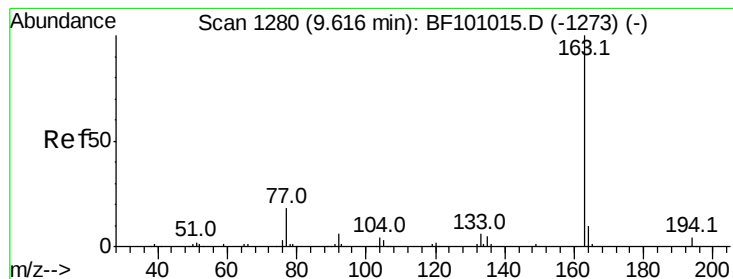
#44  
 2-Fluorobiphenyl  
 Concen: 38.821 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF101193.D  
 Acq: 7 Dec 2017 3:38

Tgt Ion:172 Resp: 177207  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 29.7 44.5  
 170 22.7 19.6 29.4



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





#49

Dimethylphthalate

Concen: 3.651 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

Instrument :

BNA\_F

ClientSampleId :

BART-2-E(0-1)

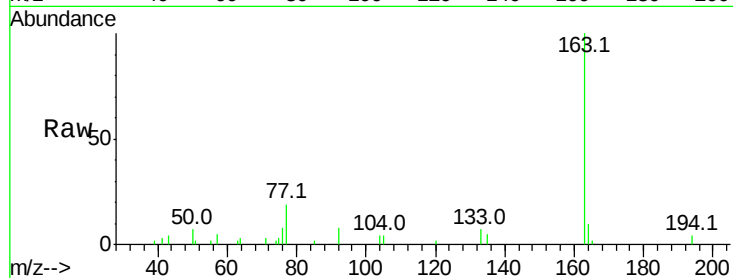
Tot Ion:163 Resp: 18387

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

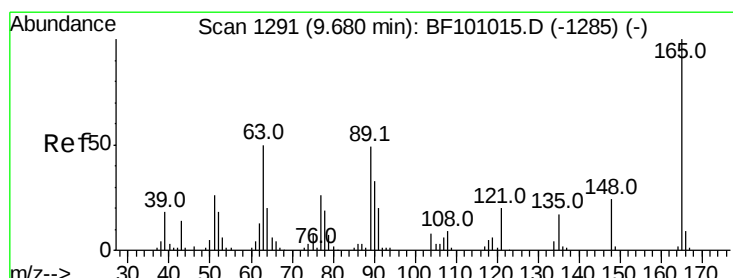
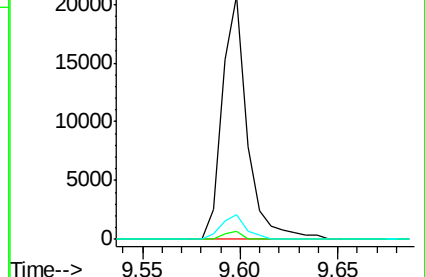
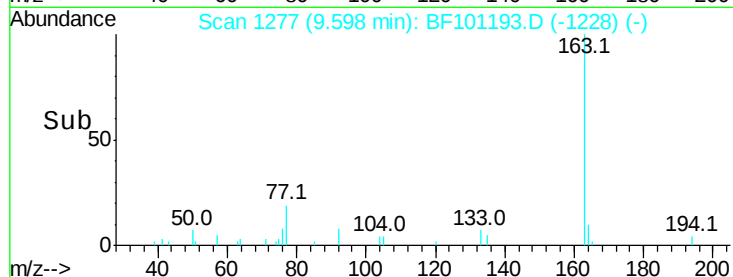
164 10.1 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 7.257 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.21 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

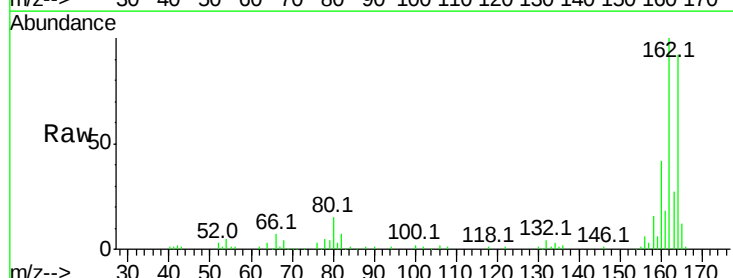
Tgt Ion:165 Resp: 7699

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

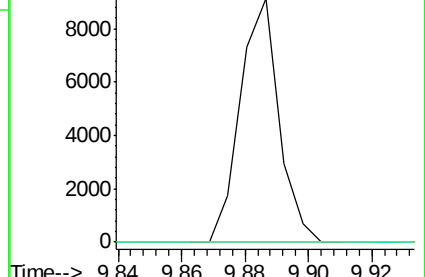
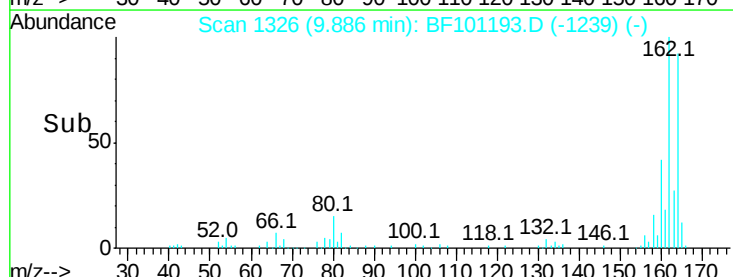
89 0.0 44.0 66.0#

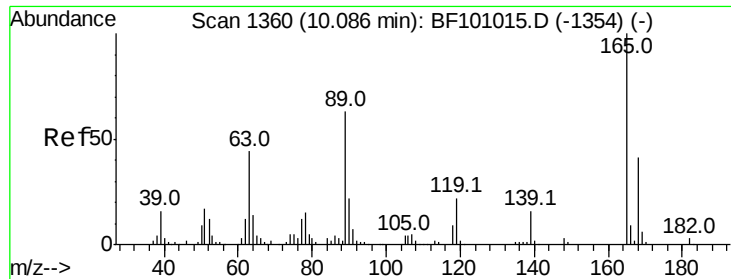


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

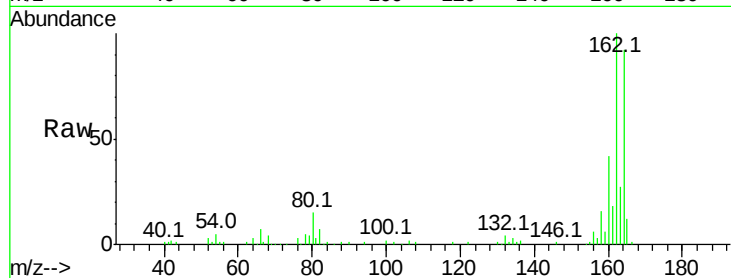




#56  
 2,4-Dinitrotoluene  
 Concen: 5.415 ng  
 RT: 9.89 min Scan# 1326  
 Delta R.T. -0.19 min  
 Lab File: BF101193.D  
 Acq: 7 Dec 2017 3:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BART-2-E(0-1)

|             |             |
|-------------|-------------|
| Tot Ion:165 | Resp: 7699  |
| 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#    |

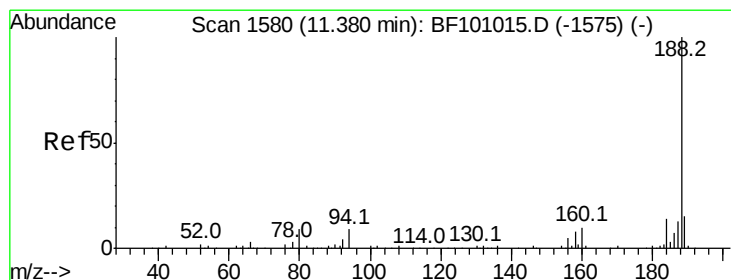
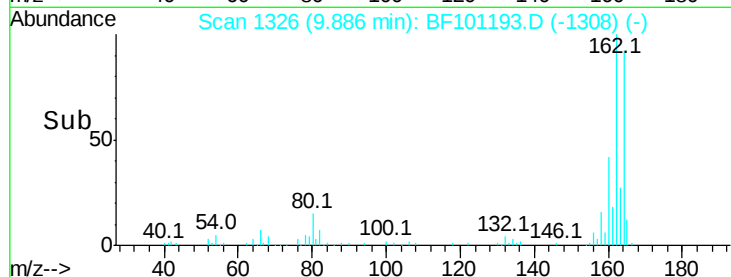
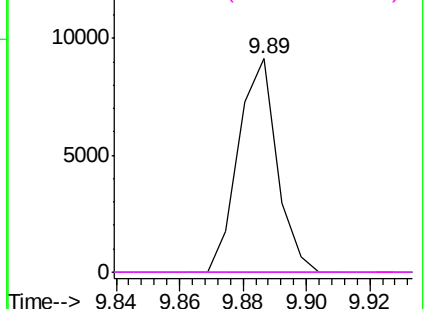


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

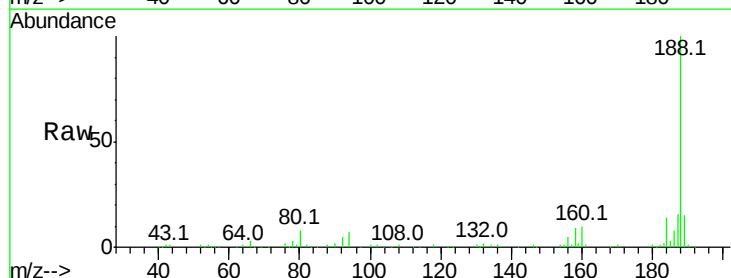
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.37 min Scan# 1579  
 Delta R.T. 0.00 min  
 Lab File: BF101193.D  
 Acq: 7 Dec 2017 3:38

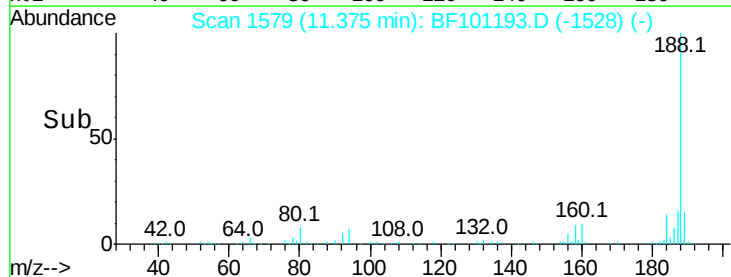
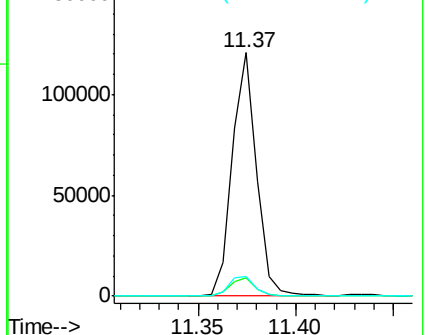
|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:188 | Resp: | 104004 |
| Ion | Ratio   | Lower | Upper  |
| 188 | 100     |       |        |
| 94  | 7.4     | 8.5   | 12.7#  |
| 80  | 8.1     | 9.2   | 13.8#  |

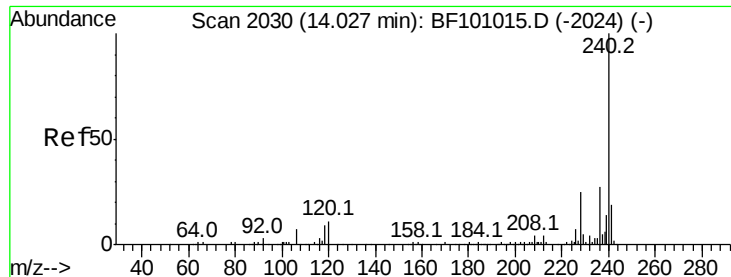


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.00 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

Instrument :

BNA\_F

ClientSampleId :

BART-2-E(0-1)

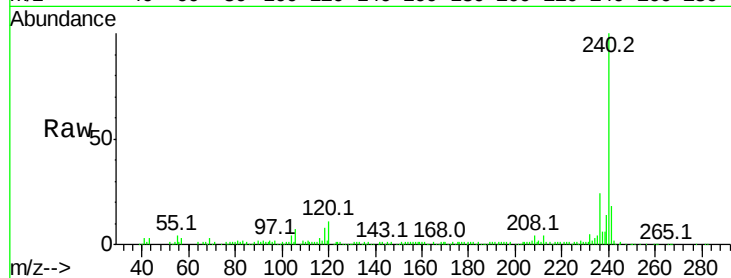
Tot Ion:240 Resp: 100860

Ion Ratio Lower Upper

240 100

120 10.6 9.5 14.3

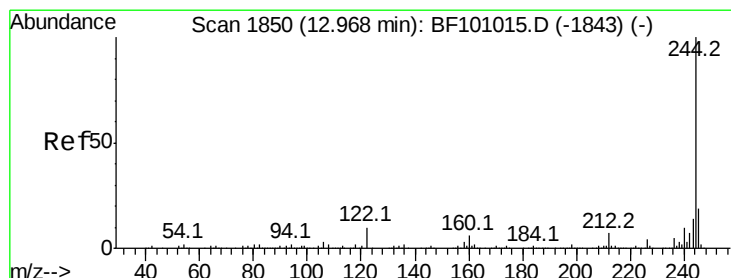
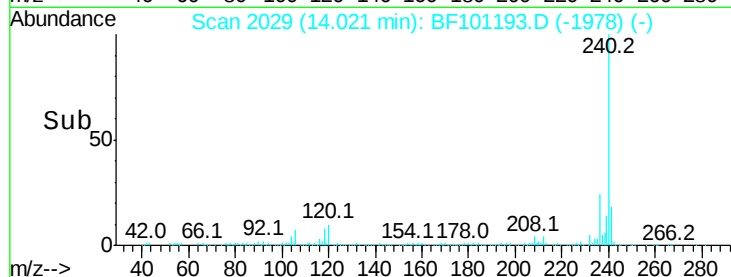
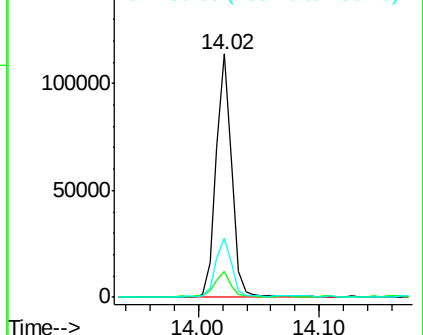
236 24.4 20.7 31.1



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: 30.436 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

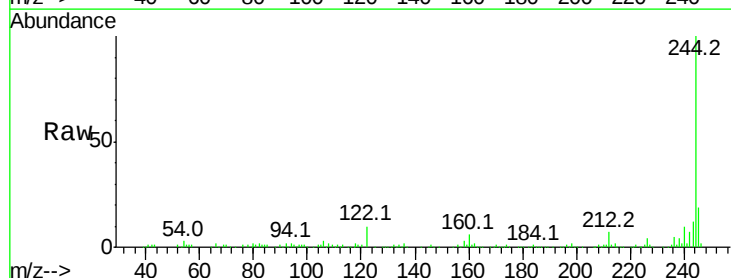
Tgt Ion:244 Resp: 140347

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

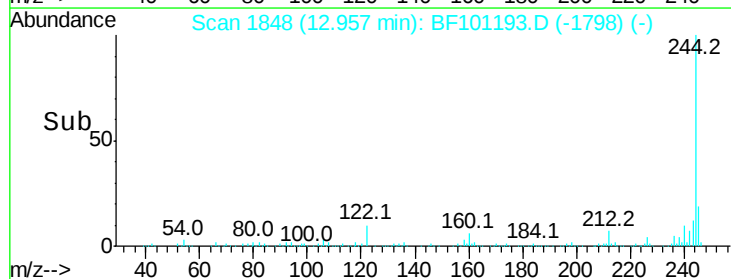
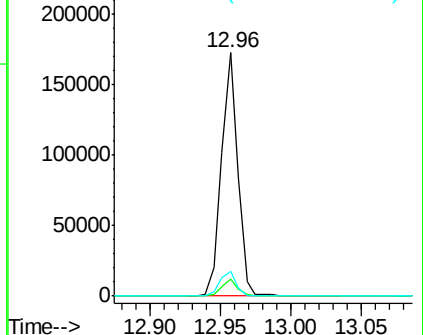
122 10.2 11.0 16.4#

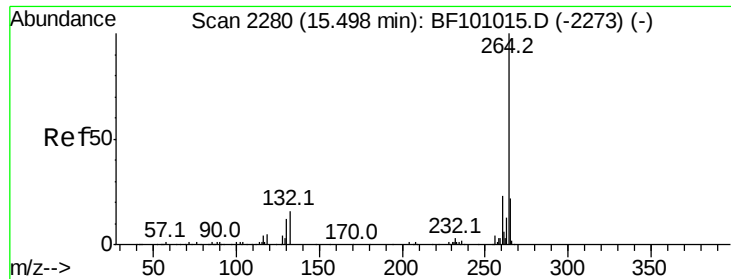


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

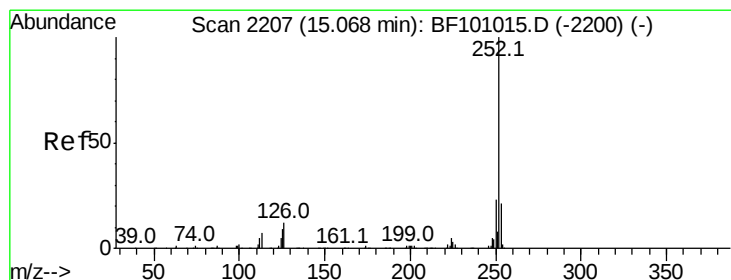
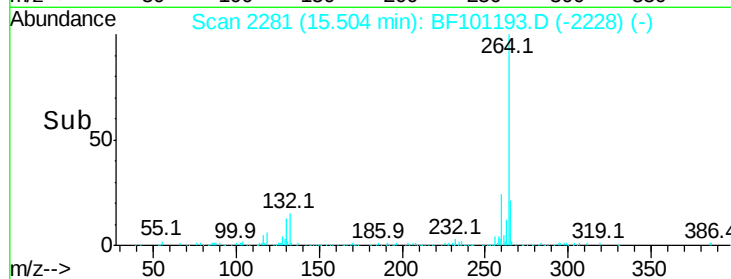
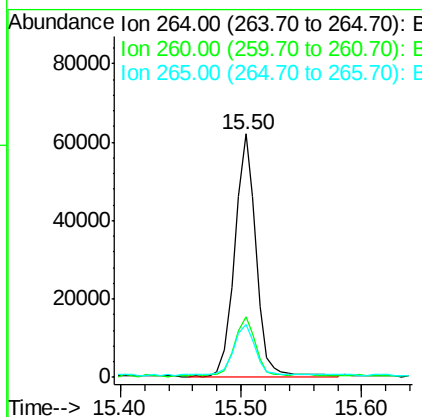
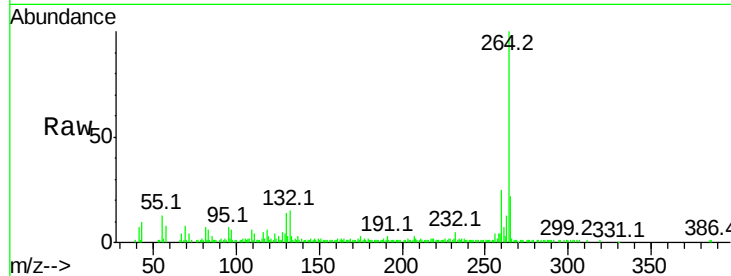




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2281  
Delta R.T. 0.01 min  
Lab File: BF101193.D  
Acq: 7 Dec 2017 3:38

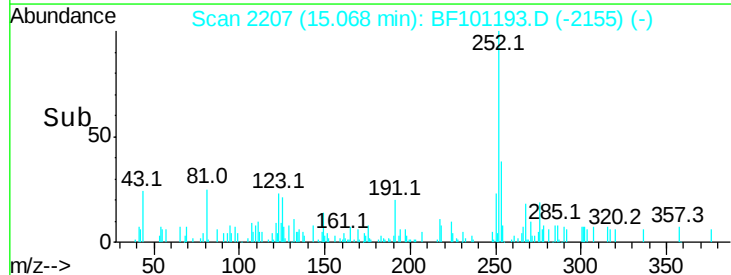
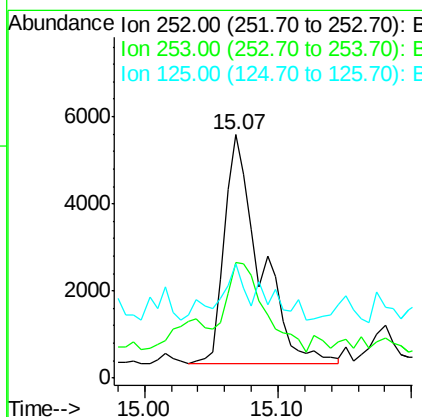
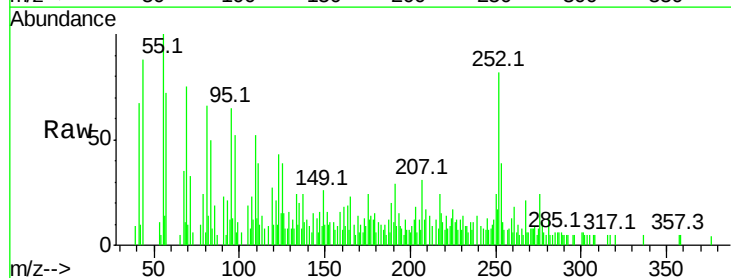
Instrument :  
BNA\_F  
ClientSampleId :  
BART-2-E(0-1)

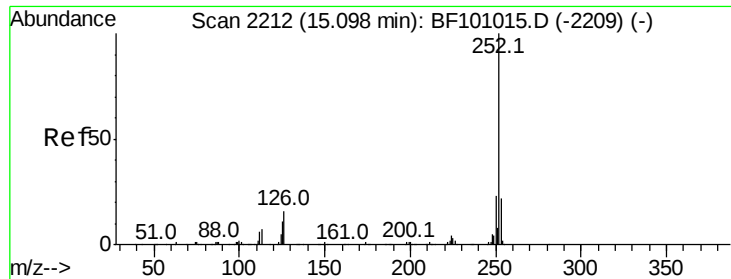
Tot Ion:264 Resp: 77108  
Ion Ratio Lower Upper  
264 100  
260 24.9 19.2 28.8  
265 21.9 17.5 26.3



#87  
Benzo(b)fluoranthene  
Concen: 2.113 ng  
RT: 15.07 min Scan# 2207  
Delta R.T. 0.01 min  
Lab File: BF101193.D  
Acq: 7 Dec 2017 3:38

Tgt Ion:252 Resp: 9759  
Ion Ratio Lower Upper  
252 100  
253 47.2 17.0 25.6#  
125 47.1 9.0 13.6#





#88

Benzo(k)fluoranthene

Concen: 2.145 ng

RT: 15.07 min Scan# 2207

Delta R.T. -0.02 min

Lab File: BF101193.D

Acq: 7 Dec 2017 3:38

Instrument :

BNA\_F

ClientSampleId :

BART-2-E(0-1)

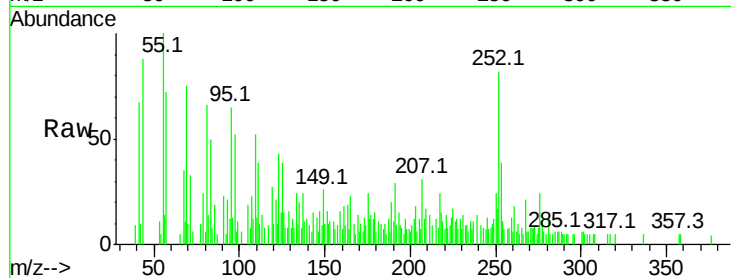
Tot Ion:252 Resp: 9759

Ion Ratio Lower Upper

252 100

253 47.2 17.9 26.9#

125 47.1 10.2 15.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

