

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012920\  
 Data File : BF118745.D  
 Acq On : 29 Jan 2020 21:34  
 Operator : CG/JU  
 Sample : L1289-30  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 30 00:12:20 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 27 14:24:10 2020  
 Response via : Initial Calibration

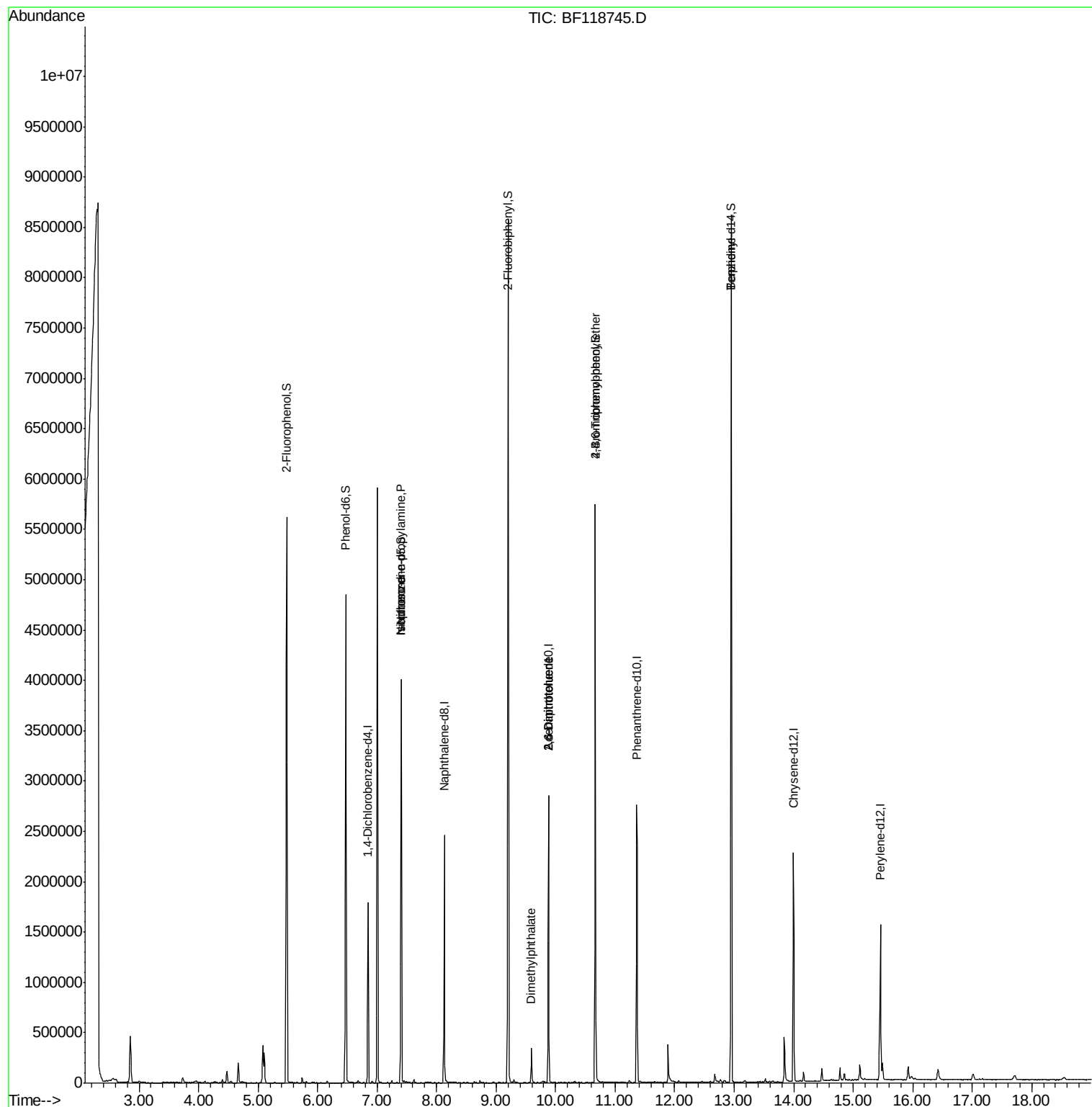
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 295188   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.13  | 136  | 1083893  | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.88  | 164  | 595201   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 1055557  | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.00 | 240  | 718878   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.46 | 264  | 767948   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 1683116  | 105.90 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 1803543  | 87.31  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 1512543  | 78.05  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 822998   | 119.55 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 2937592  | 81.12  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.95 | 244  | 3315270  | 100.59 | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 207049   | 14.844 | ng    | # 76     |
| 25) Isophorone                 | 7.40  | 82   | 1512515  | 42.793 | ng    | # 63     |
| 50) Dimethylphthalate          | 9.59  | 163  | 133942   | 3.454  | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 9.88  | 165  | 77659    | 8.943  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.88  | 165  | 77659    | 7.094  | ng    | # 30     |
| 67) 4-Bromophenyl-phenylether  | 10.67 | 248  | 54010    | 4.142  | ng    | # 1      |
| 77) Benzidine                  | 12.95 | 184  | 41334    | 2.152  | ng    | # 91     |

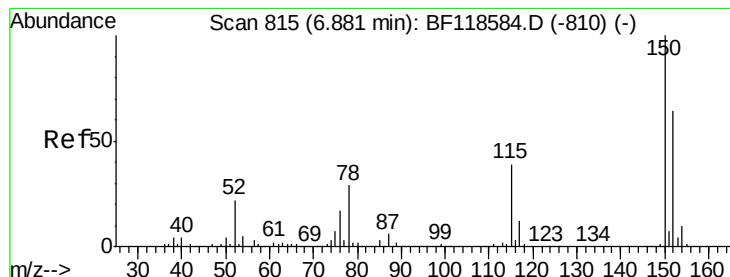
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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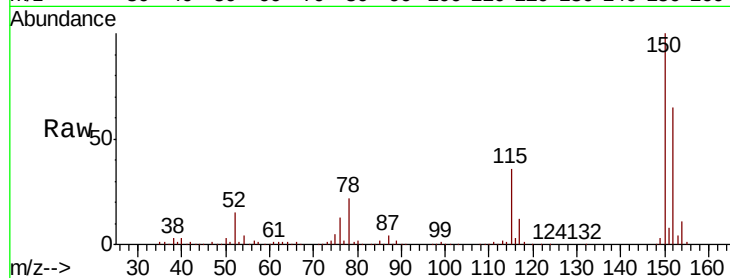


#1

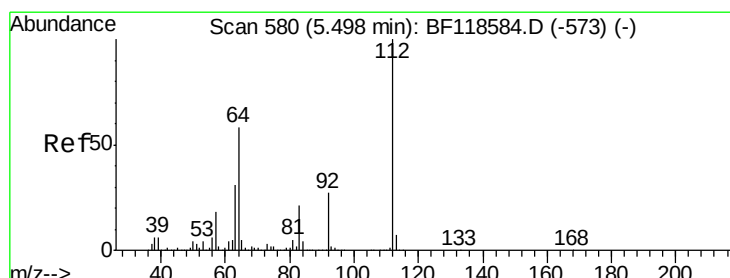
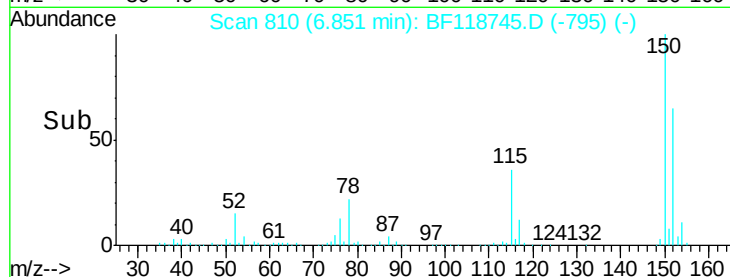
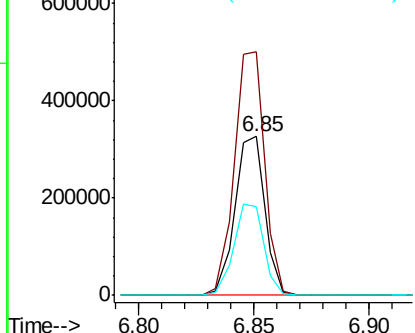
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.01 min  
Lab File: BF118745.D  
Acq: 29 Jan 2020 21:34

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.1 | 123.7 | 185.5 |
| 115     | 55.5  | 45.1  | 67.7  |



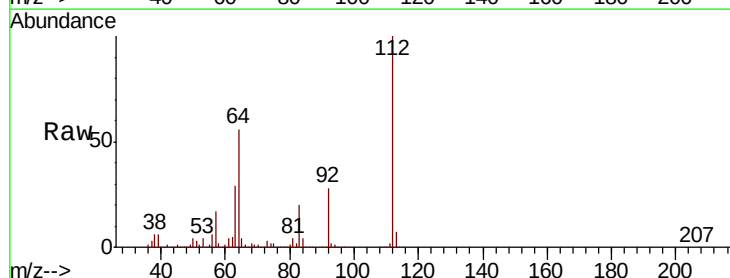
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



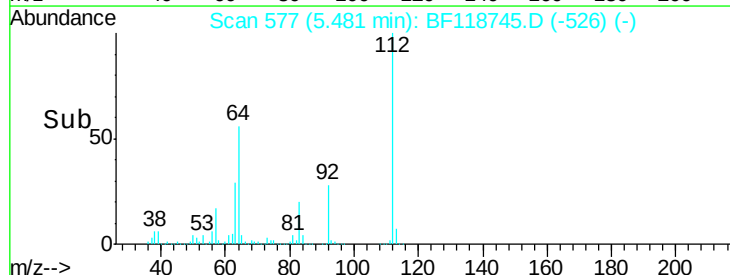
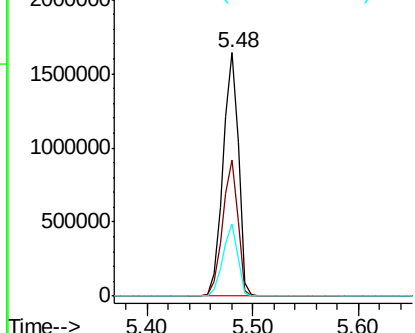
#5

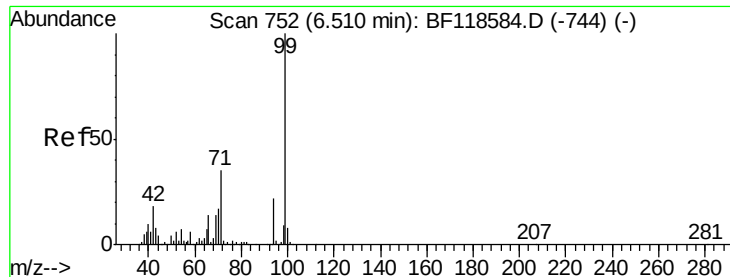
2-Fluorophenol  
Concen: 105.898 ng  
RT: 5.48 min Scan# 577  
Delta R.T. -0.00 min  
Lab File: BF118745.D  
Acq: 29 Jan 2020 21:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.0  | 42.4  | 63.6  |
| 63      | 29.5  | 21.7  | 32.5  |



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: 87.305 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

Instrument :

BNA\_F

ClientSampleId :

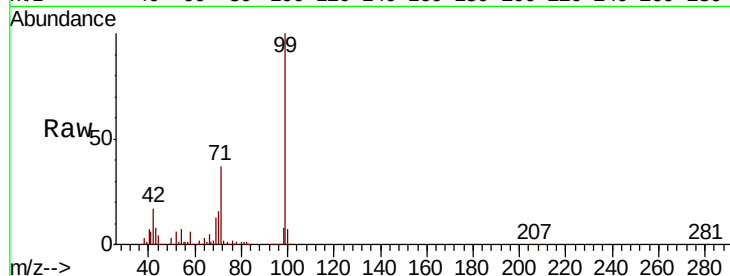
Tot Ion: 99 Resp: 1803543

Ion Ratio Lower Upper

99 100

42 17.2 13.1 19.7

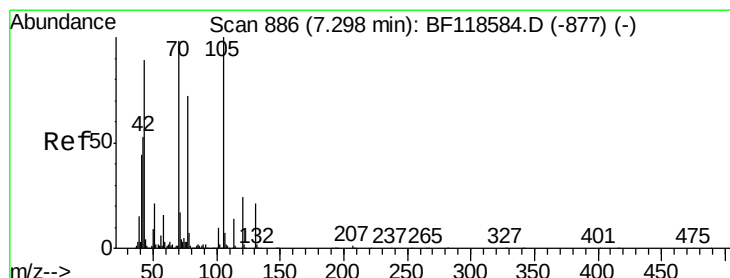
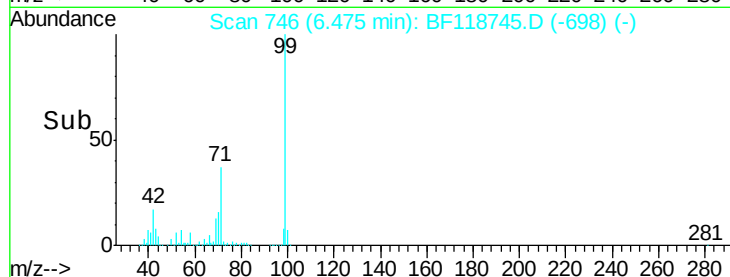
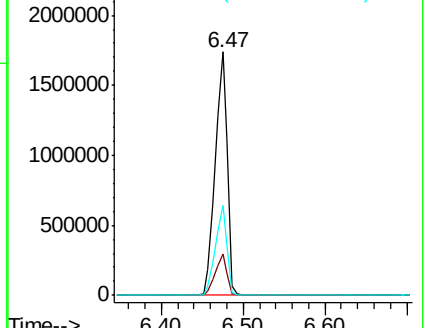
71 37.1 28.4 42.6



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: 14.844 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.13 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

Tgt Ion: 70 Resp: 207049

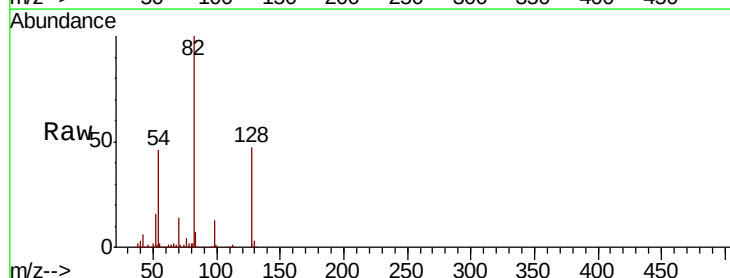
Ion Ratio Lower Upper

70 100

42 42.2 41.6 62.4

101 0.0 7.9 11.9#

130 2.5 19.0 28.6#

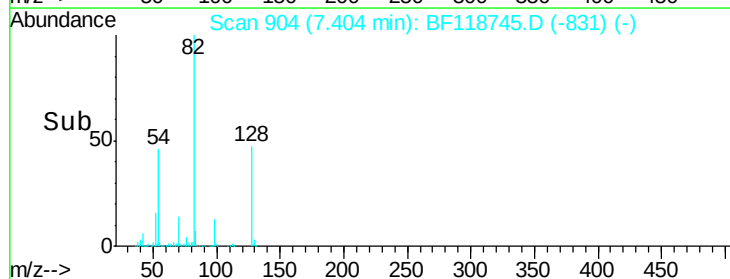
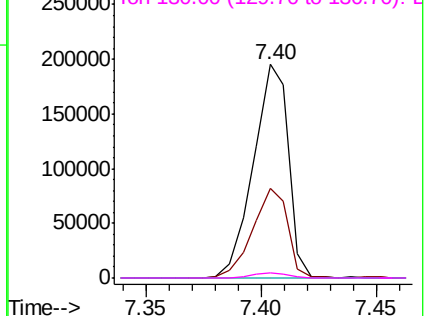


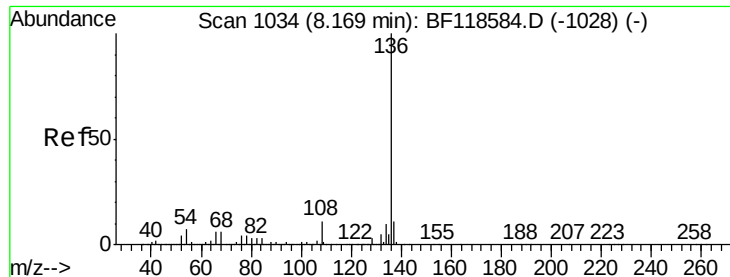
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

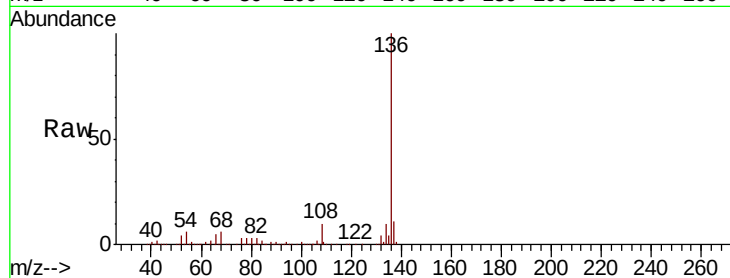




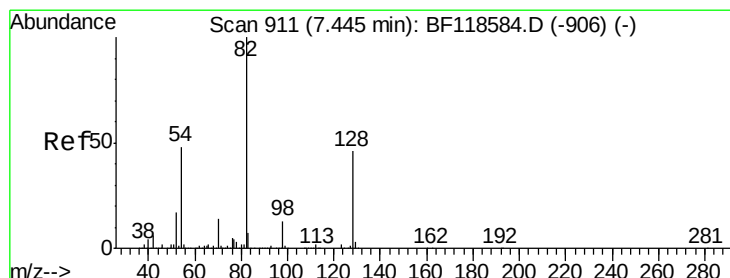
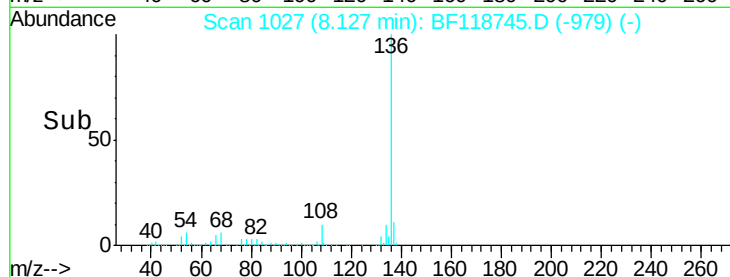
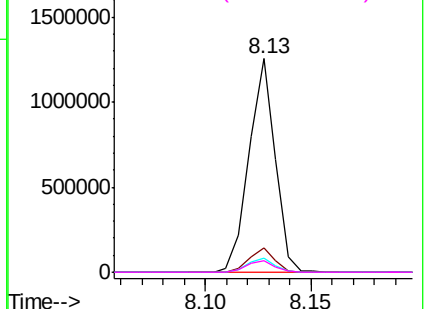
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.02 min  
Lab File: BF118745.D  
Acq: 29 Jan 2020 21:34

Instrument :  
BNA\_F  
ClientSampleId :

|             |               |
|-------------|---------------|
| Tot Ion:136 | Resp: 1083893 |
| Ion Ratio   | Lower Upper   |
| 136 100     |               |
| 137 11.1    | 8.9 13.3      |
| 54 6.5      | 5.1 7.7       |
| 68 5.6      | 4.3 6.5       |

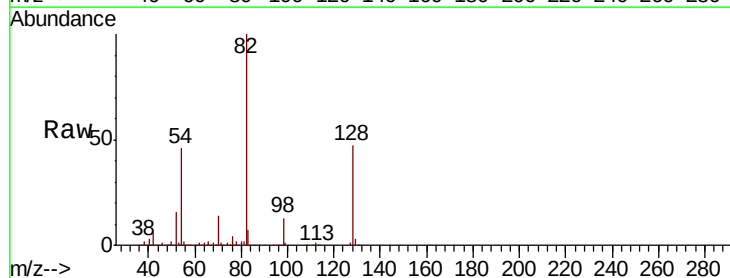


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

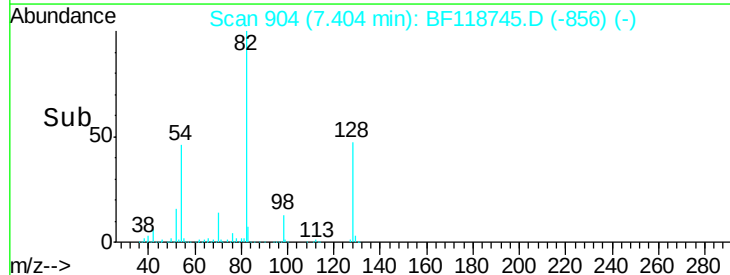
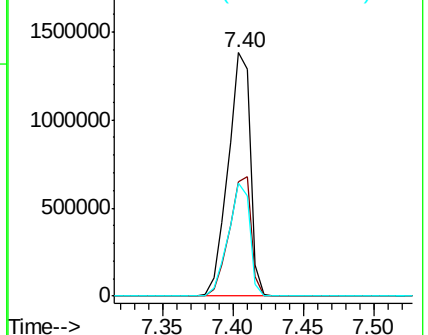


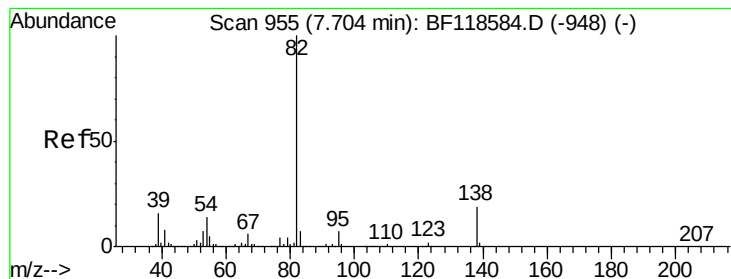
#23  
Nitrobenzene-d5  
Concen: 78.054 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.02 min  
Lab File: BF118745.D  
Acq: 29 Jan 2020 21:34

|     |         |               |       |
|-----|---------|---------------|-------|
| Tgt | Ion: 82 | Resp: 1512543 |       |
| Ion | Ratio   | Lower         | Upper |
| 82  | 100     |               |       |
| 128 | 46.9    | 38.2          | 57.2  |
| 54  | 46.2    | 36.1          | 54.1  |



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: 42.793 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.28 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

Instrument :

BNA\_F

ClientSampleId :

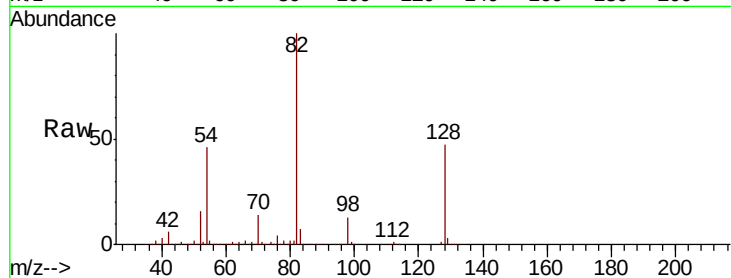
Tot Ion: 82 Resp: 1512515

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

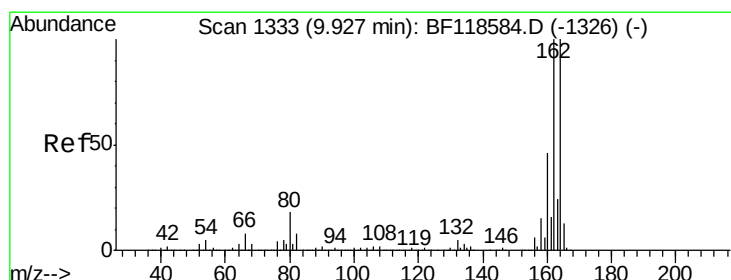
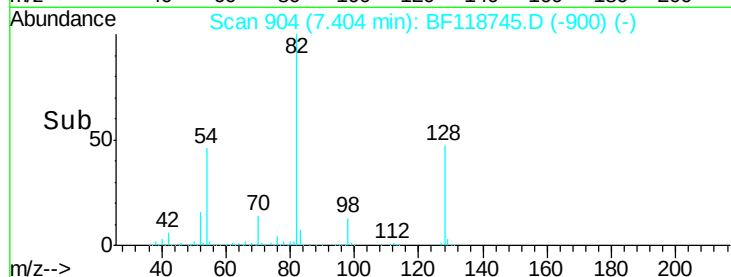
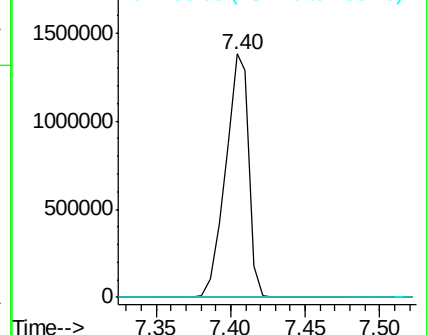
138 0.0 15.8 23.8#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.02 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

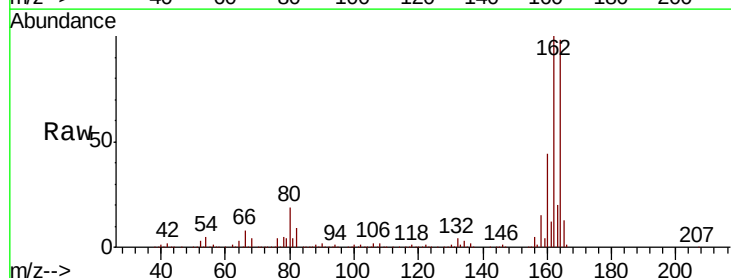
Tgt Ion: 164 Resp: 595201

Ion Ratio Lower Upper

164 100

162 102.4 80.8 121.2

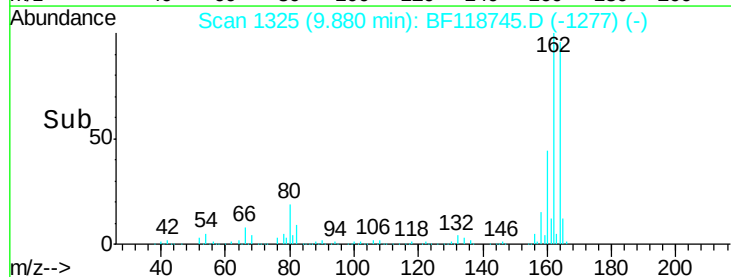
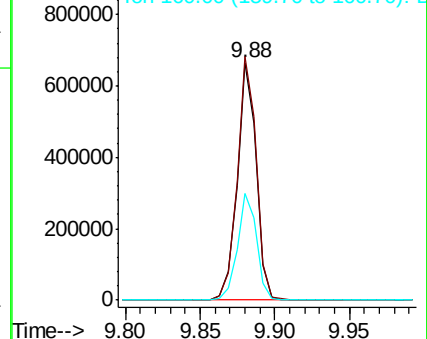
160 44.6 35.4 53.0

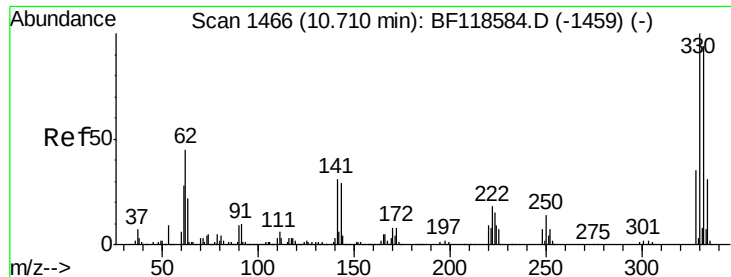


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 119.548 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.02 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

Instrument :

BNA\_F

ClientSampled :

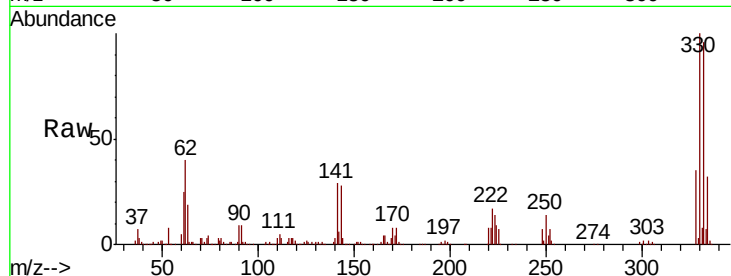
Tot Ion:330 Resp: 822998

Ion Ratio Lower Upper

330 100

332 96.4 77.6 116.4

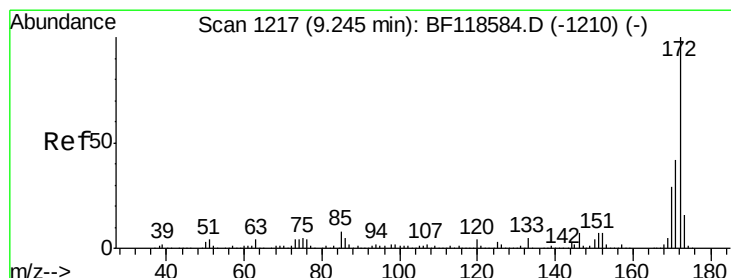
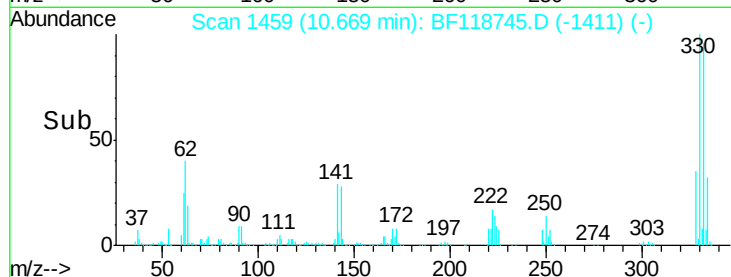
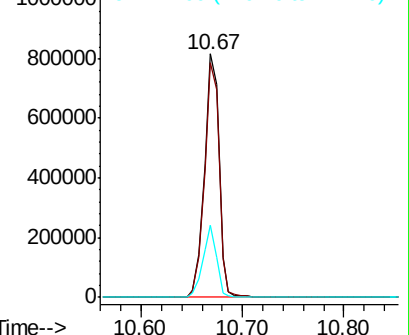
141 27.4 22.2 33.2



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: 81.120 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.02 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

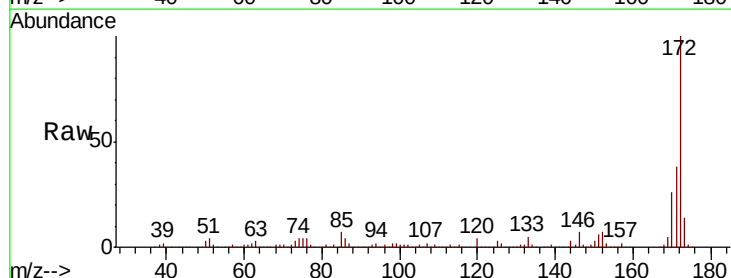
Tgt Ion:172 Resp: 2937592

Ion Ratio Lower Upper

172 100

171 38.2 31.0 46.4

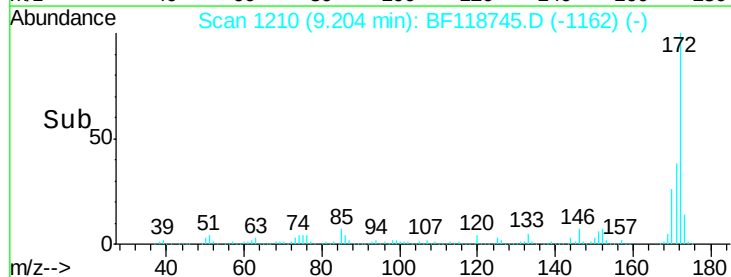
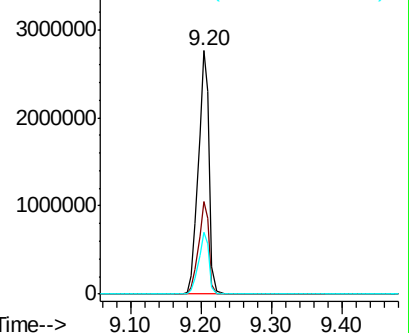
170 25.6 20.7 31.1

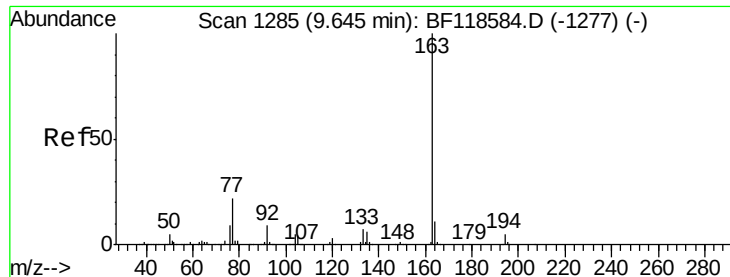


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 3.454 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.03 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

Instrument :

BNA\_F

ClientSampleId :

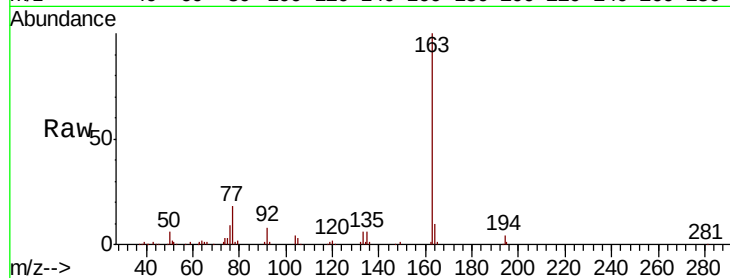
Tot Ion:163 Resp: 133942

Ion Ratio Lower Upper

163 100

194 4.5 3.7 5.5

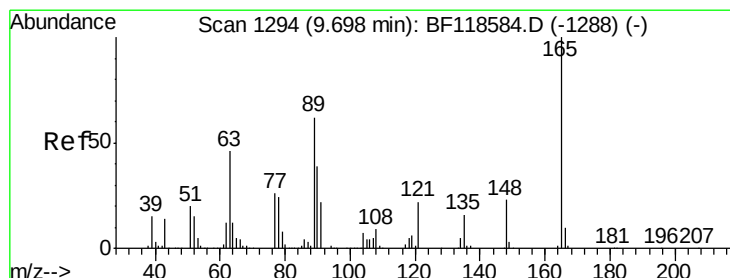
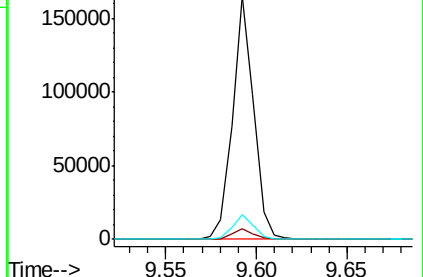
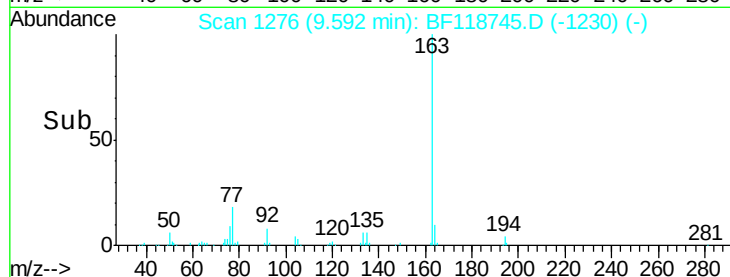
164 10.1 8.2 12.2



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



#51

2,6-Dinitrotoluene

Concen: 8.943 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.21 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

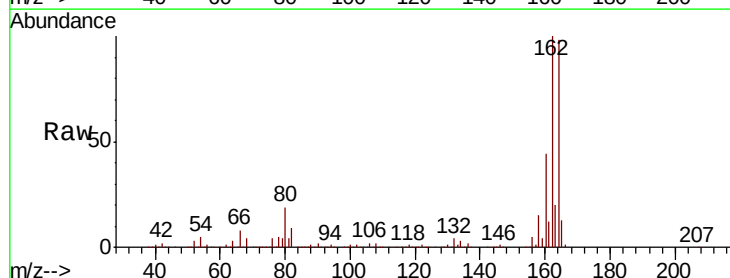
Tgt Ion:165 Resp: 77659

Ion Ratio Lower Upper

165 100

63 1.3 39.8 59.6#

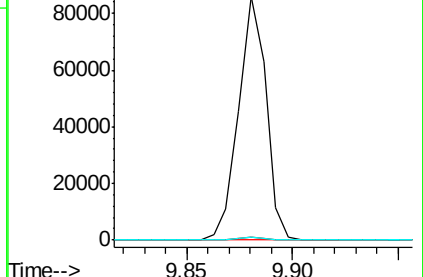
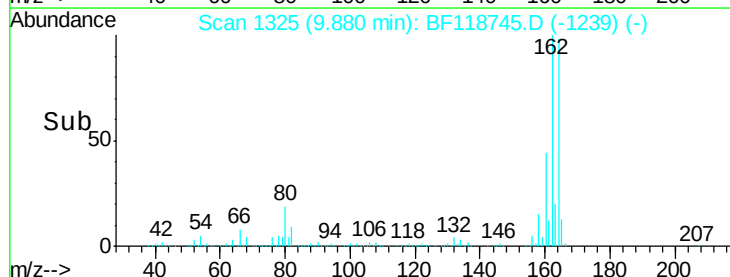
89 1.1 41.4 62.2#



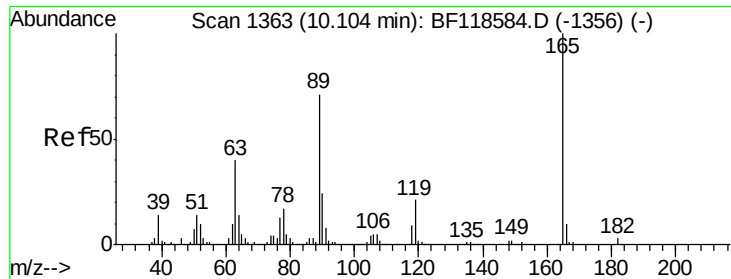
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1







#57

2,4-Dinitrotoluene

Concen: 7.094 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.20 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

Instrument :

BNA\_F

ClientSampled :

Tot Ion:165 Resp: 77659

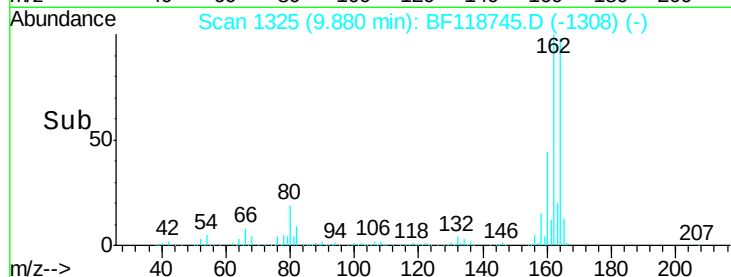
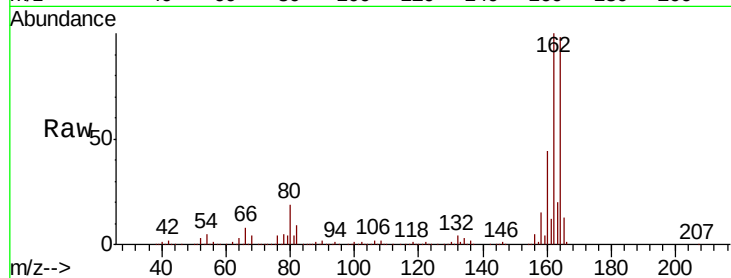
Ion Ratio Lower Upper

165 100

63 1.3 28.5 42.7#

89 1.1 50.4 75.6#

182 0.0 2.3 3.5#

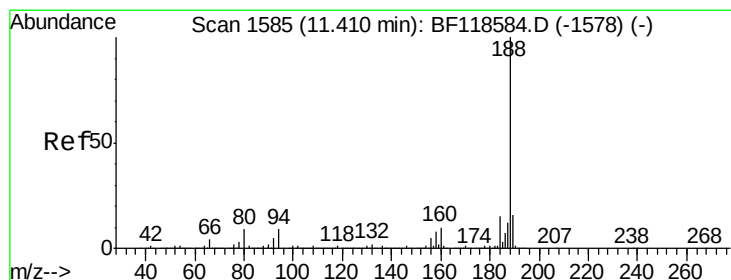
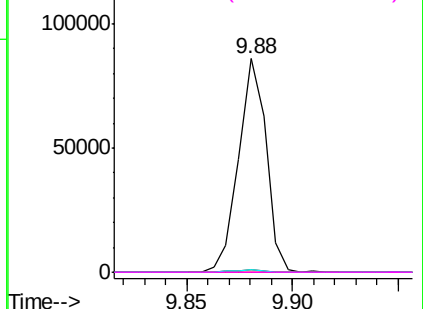


Abundance Ion 165.00 (164.70 to 165.70): E

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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.02 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

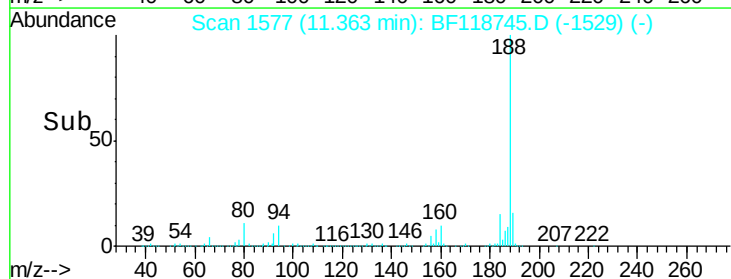
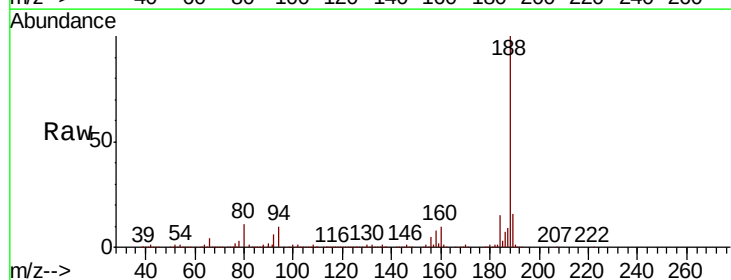
Tgt Ion:188 Resp: 1055557

Ion Ratio Lower Upper

188 100

94 9.7 7.4 11.2

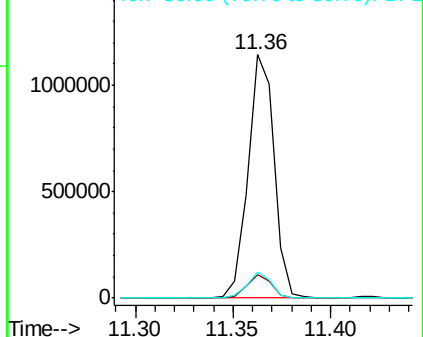
80 10.7 7.8 11.8

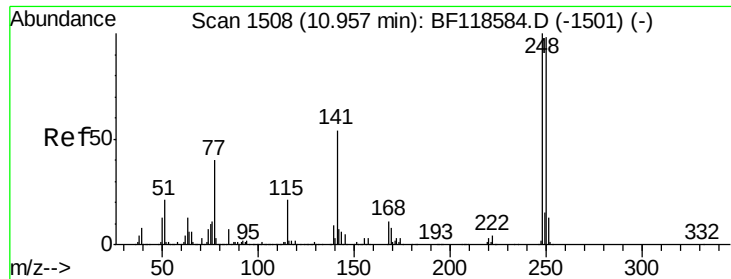


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

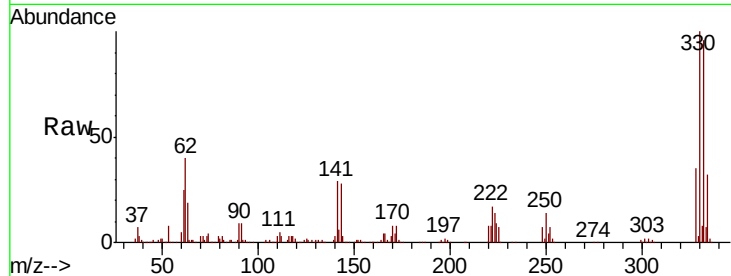




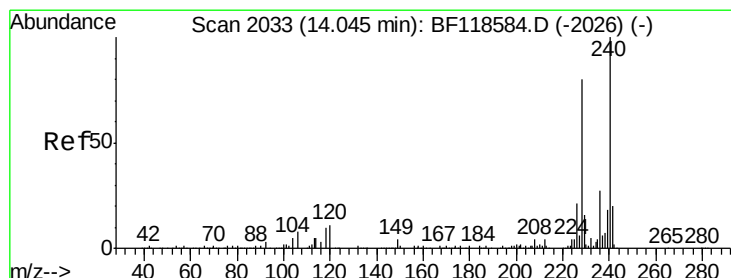
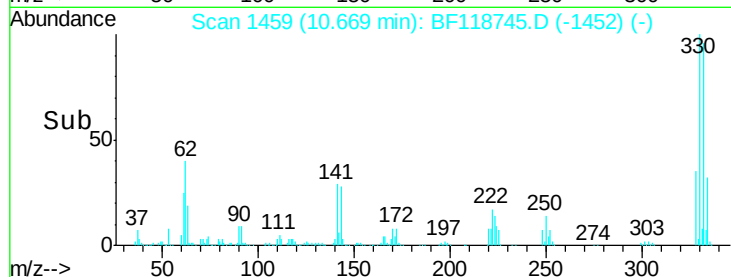
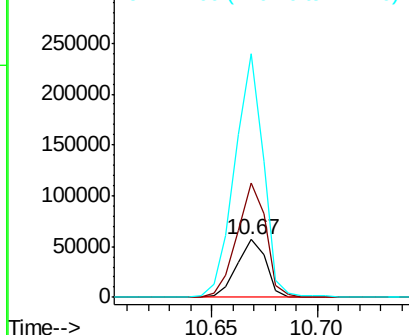
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.142 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.26 min  
 Lab File: BF118745.D  
 Acq: 29 Jan 2020 21:34

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 54010  
 Ion Ratio Lower Upper  
 248 100  
 250 198.0 78.7 118.1#  
 141 421.8 48.4 72.6#

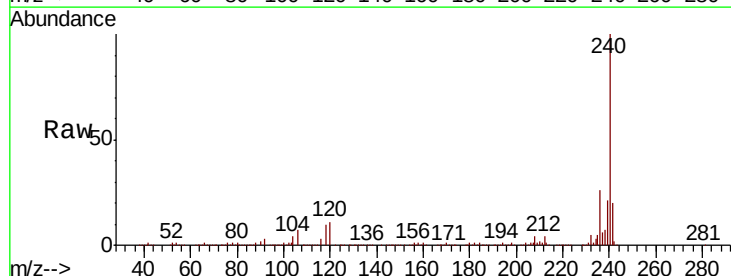


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

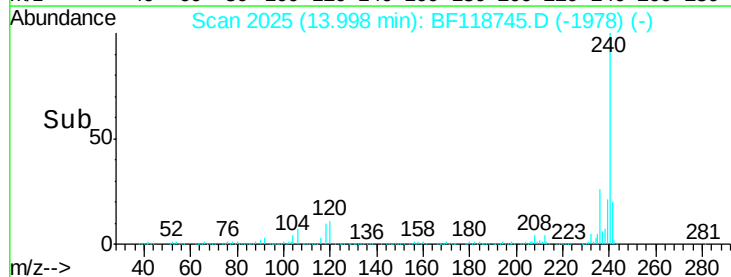
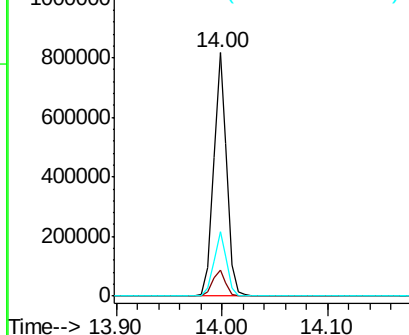


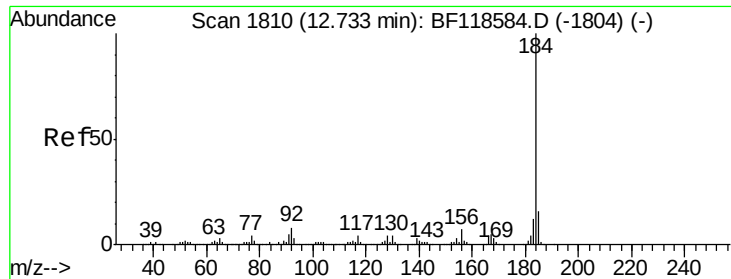
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.00 min Scan# 2025  
 Delta R.T. -0.02 min  
 Lab File: BF118745.D  
 Acq: 29 Jan 2020 21:34

Tgt Ion:240 Resp: 718878  
 Ion Ratio Lower Upper  
 240 100  
 120 10.7 7.6 11.4  
 236 26.5 21.0 31.4



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





#77

Benzidine

Concen: 2.152 ng

RT: 12.95 min Scan# 1847

Delta R.T. 0.24 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

Instrument :

BNA\_F

ClientSampleId :

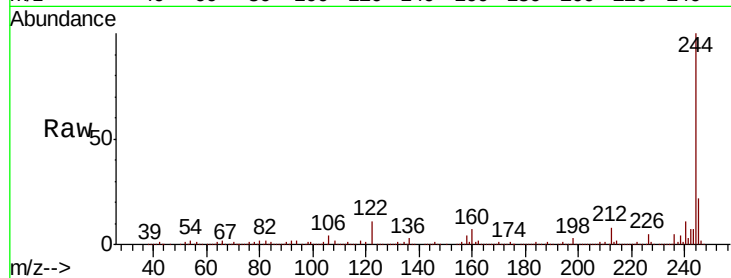
Tot Ion:184 Resp: 41334

Ion Ratio Lower Upper

184 100

185 16.7 11.8 17.8

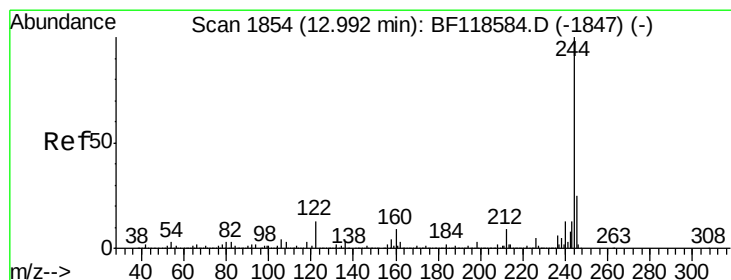
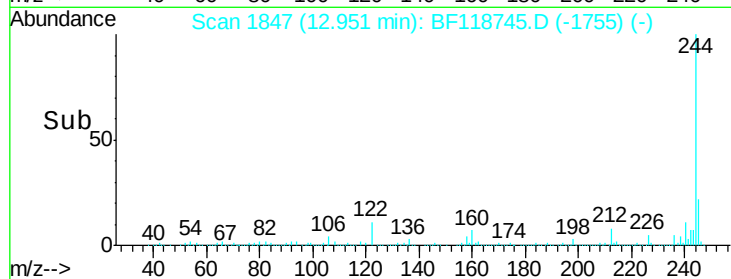
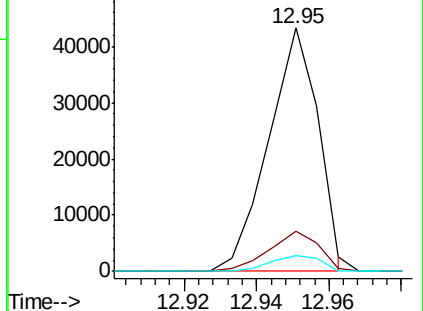
183 6.2 9.7 14.5#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 100.586 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF118745.D

Acq: 29 Jan 2020 21:34

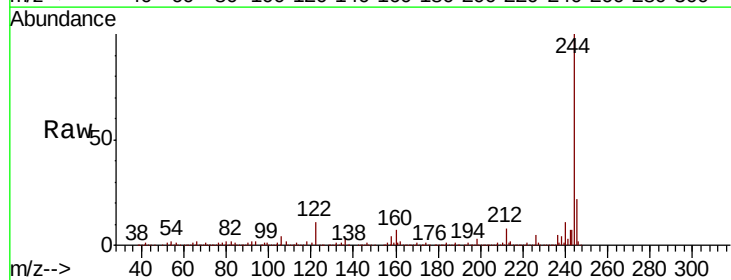
Tgt Ion:244 Resp: 3315270

Ion Ratio Lower Upper

244 100

212 7.6 6.3 9.5

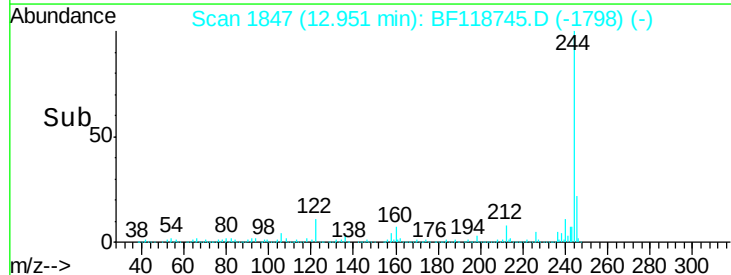
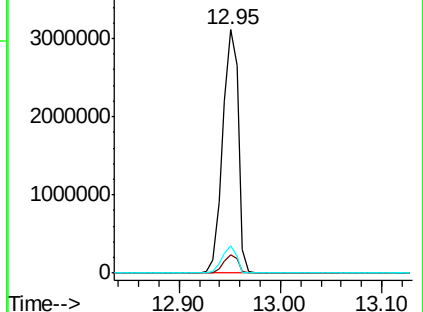
122 11.4 9.2 13.8

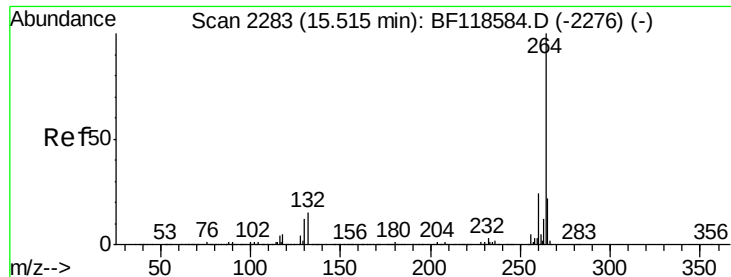


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlone-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. -0.02 min  
 Lab File: BF118745.D  
 Acq: 29 Jan 2020 21:34

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 18.6  | 28.0  |
| 265     | 21.8  | 17.0  | 25.6  |

