

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102419\  
 Data File : BF117530.D  
 Acq On : 25 Oct 2019 00:12  
 Operator : JU  
 Sample : K5498-03 5X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 190-20-(0-1)

Quant Time: Oct 25 01:09:31 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 18 18:53:31 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 52291    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.02  | 136  | 220362   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.77  | 164  | 105378   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.26 | 188  | 145396   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.90 | 240  | 104597   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.33 | 264  | 78788    | 20.00 | ng    | 0.01     |

|                             |       |     |       |       |    |      |
|-----------------------------|-------|-----|-------|-------|----|------|
| System Monitoring Compounds |       |     |       |       |    |      |
| 5) 2-Fluorophenol           | 5.36  | 112 | 59678 | 16.98 | ng | 0.01 |
| 7) Phenol-d6                | 6.39  | 99  | 87059 | 18.44 | ng | 0.01 |
| 23) Nitrobenzene-d5         | 7.30  | 82  | 47753 | 10.70 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 10.56 | 330 | 12792 | 14.03 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 9.09  | 172 | 84764 | 11.33 | ng | 0.00 |
| 79) Terphenyl-d14           | 12.83 | 244 | 55513 | 8.66  | ng | 0.00 |

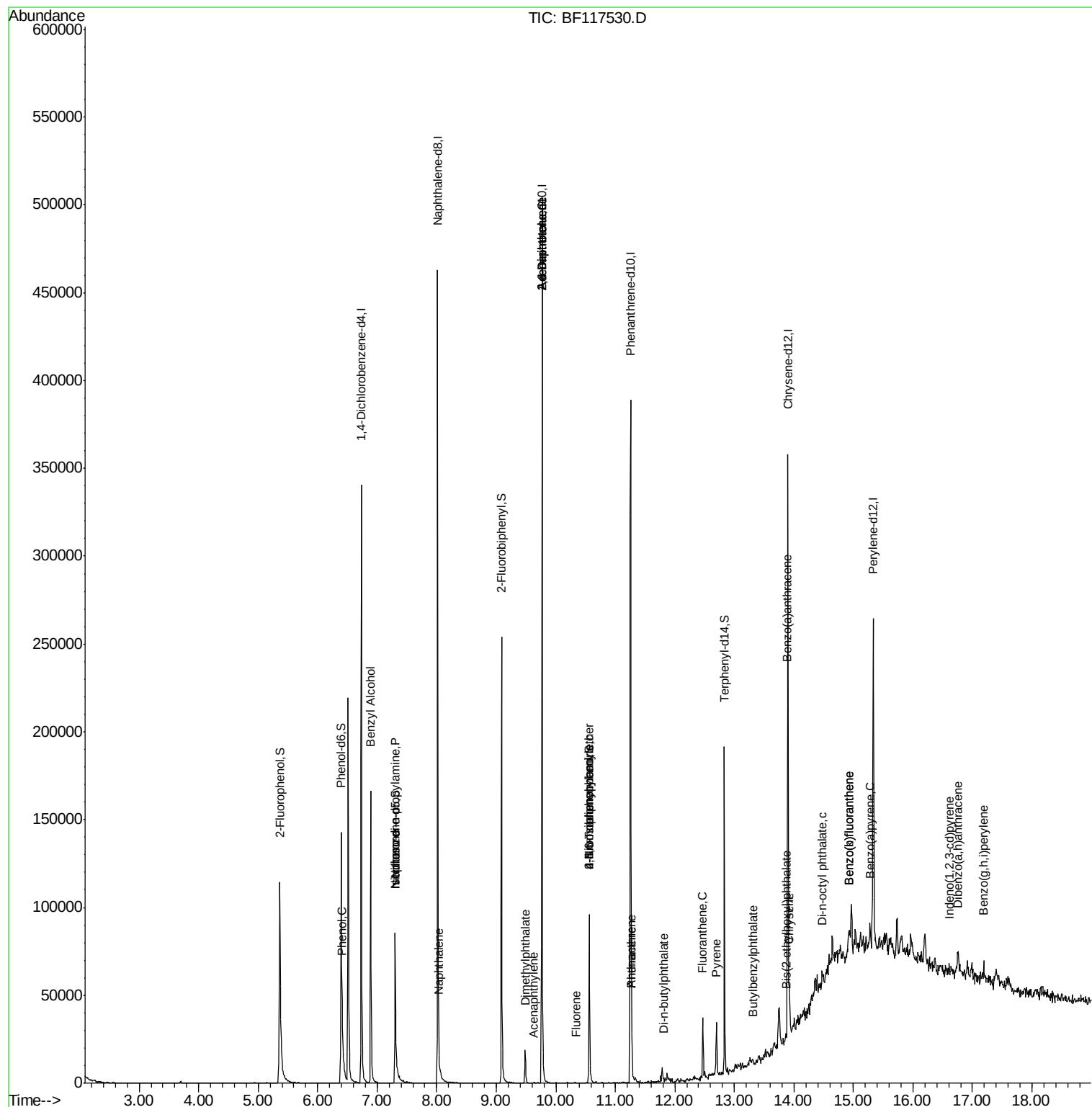
|                                |       |     |       |           |    |      |
|--------------------------------|-------|-----|-------|-----------|----|------|
| Target Compounds               |       |     |       | Qvalue    |    |      |
| 9) Benzaldehyde                | 6.51  | 77  | 1749  | Below Cal | #  | 71   |
| 10) Phenol                     | 6.42  | 94  | 1479  | 0.307     | ng | # 64 |
| 15) Benzyl Alcohol             | 6.89  | 79  | 755   | 0.224     | ng | # 42 |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70  | 5535  | 1.920     | ng | # 74 |
| 25) Isophorone                 | 7.30  | 82  | 47752 | 6.184     | ng | # 65 |
| 31) Naphthalene                | 8.04  | 128 | 224   | 0.021     | ng | # 69 |
| 49) Acenaphthylene             | 9.63  | 152 | 455   | 0.047     | ng | # 62 |
| 50) Dimethylphthalate          | 9.49  | 163 | 10135 | 1.349     | ng | # 99 |
| 51) 2,6-Dinitrotoluene         | 9.77  | 165 | 12909 | 8.235     | ng | # 24 |
| 52) Acenaphthene               | 9.77  | 154 | 268   | 0.045     | ng | # 5  |
| 57) 2,4-Dinitrotoluene         | 9.77  | 165 | 12909 | 6.194     | ng | # 13 |
| 58) Fluorene                   | 10.33 | 166 | 110   | 0.015     | ng | # 81 |
| 66) n-Nitrosodiphenylamine     | 10.56 | 169 | 548   | 0.103     | ng | # 39 |
| 67) 4-Bromophenyl-phenylether  | 10.56 | 248 | 662   | 0.423     | ng | # 1  |
| 71) Phenanthrene               | 11.28 | 178 | 8176  | 0.968     | ng | 96   |
| 72) Anthracene                 | 11.28 | 178 | 8176  | 0.944     | ng | 97   |
| 74) Di-n-butylphthalate        | 11.81 | 149 | 110   | 0.010     | ng | # 78 |
| 75) Fluoranthene               | 12.47 | 202 | 16605 | 1.965     | ng | 96   |
| 77) Benzidine                  | 12.83 | 184 | 837   | Below Cal | #  | 67   |
| 78) Pyrene                     | 12.70 | 202 | 14110 | 1.571     | ng | 98   |
| 80) Butylbenzylphthalate       | 13.32 | 149 | 523   | 0.117     | ng | # 89 |
| 81) Benzo(a)anthracene         | 13.89 | 228 | 8504  | 1.205     | ng | 95   |
| 83) Chrysene                   | 13.93 | 228 | 6223  | 0.900     | ng | 96   |
| 84) Bis(2-ethylhexyl)phthalate | 13.87 | 149 | 1460  | 0.233     | ng | # 91 |
| 85) Di-n-octyl phthalate       | 14.47 | 149 | 214   | 0.022     | ng | # 1  |
| 86) Indeno(1,2,3-cd)pyrene     | 16.61 | 276 | 395   | 0.077     | ng | 94   |
| 88) Benzo(b)fluoranthene       | 14.93 | 252 | 9136  | 1.964     | ng | # 82 |
| 89) Benzo(k)fluoranthene       | 14.93 | 252 | 9136  | 1.916     | ng | # 82 |
| 90) Benzo(a)pyrene             | 15.28 | 252 | 4715  | 1.115     | ng | # 71 |
| 91) Dibenzo(a,h)anthracene     | 16.75 | 278 | 600   | 0.164     | ng | # 1  |
| 92) Benzo(g,h,i)perylene       | 17.19 | 276 | 2666  | 0.770     | ng | # 77 |

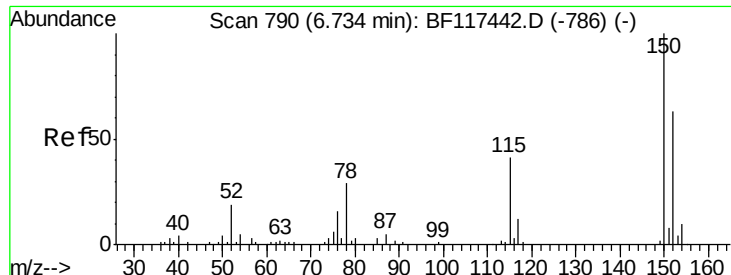
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 18 18:53:31 2019  
Response via : Initial Calibration



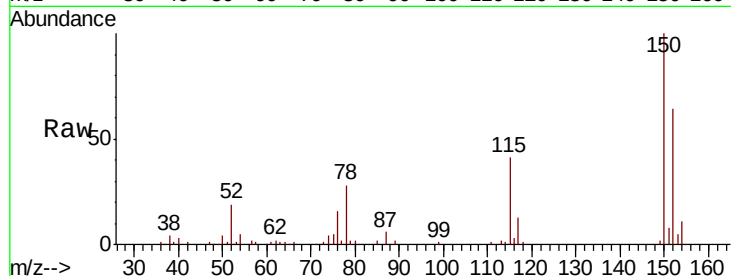


#1

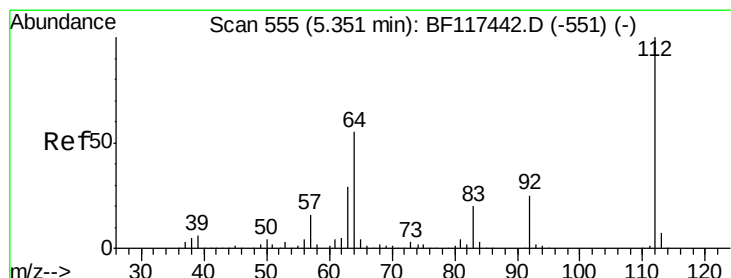
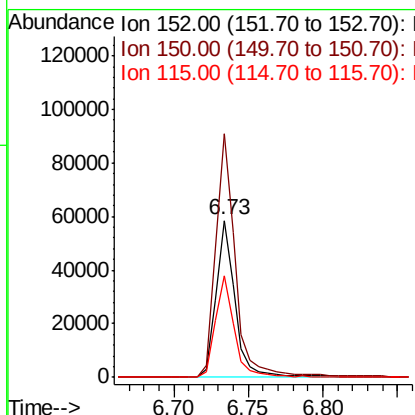
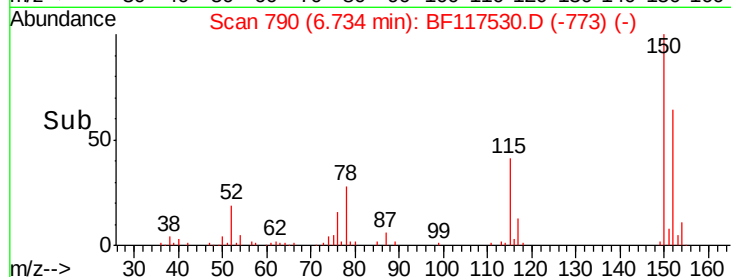
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 790  
Delta R.T. -0.00 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

Instrument :  
BNA\_F  
ClientSampleId :  
190-20-(0-1)

Tot Ion:152 Resp: 52291  
Ion Ratio Lower Upper  
152 100  
150 155.3 126.8 190.2  
115 64.4 51.6 77.4



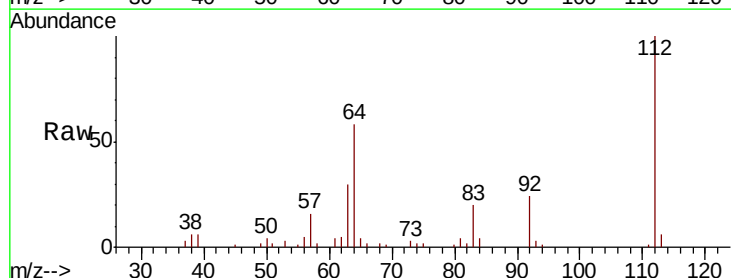
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



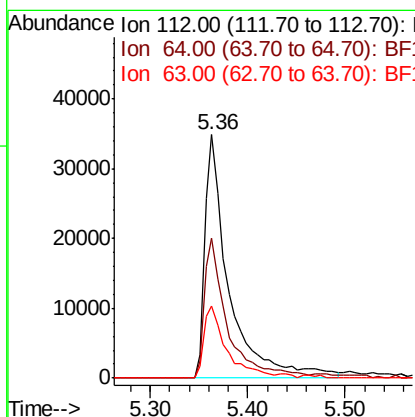
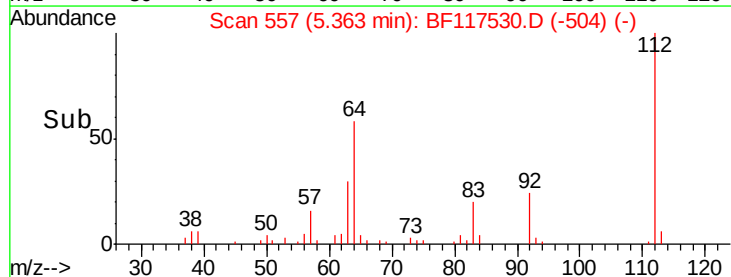
#5

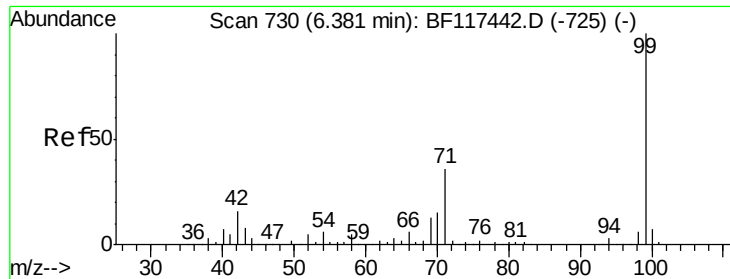
2-Fluorophenol  
Concen: 16.979 ng  
RT: 5.36 min Scan# 557  
Delta R.T. 0.01 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

Tgt Ion:112 Resp: 59678  
Ion Ratio Lower Upper  
112 100  
64 57.5 44.1 66.1  
63 29.7 23.4 35.2



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: 18.441 ng

RT: 6.39 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

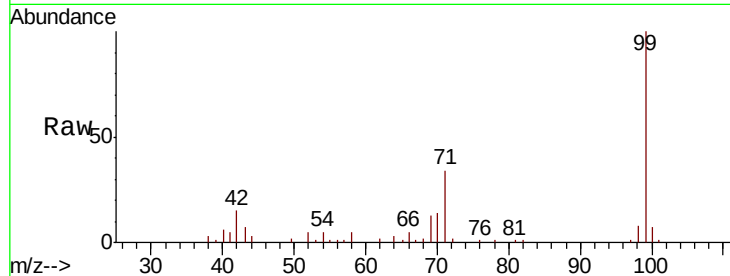
Tot Ion: 99 Resp: 87059

Ion Ratio Lower Upper

99 100

42 14.6 12.8 19.2

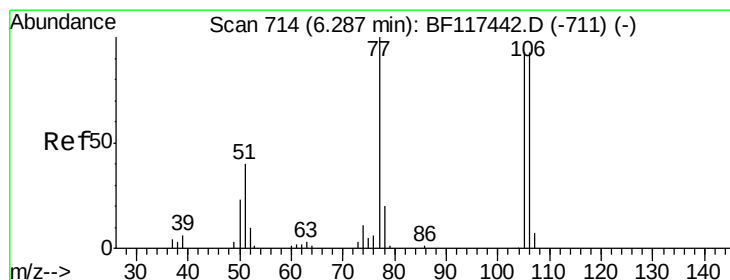
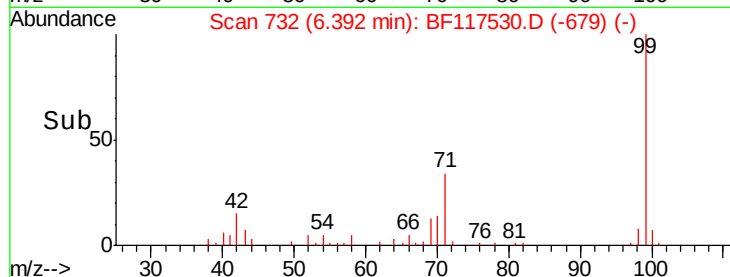
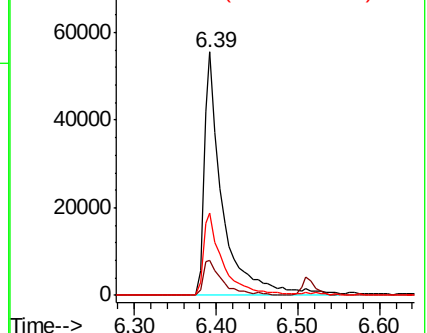
71 33.8 28.6 43.0



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: Below Cal

RT: 6.51 min Scan# 752

Delta R.T. 0.22 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

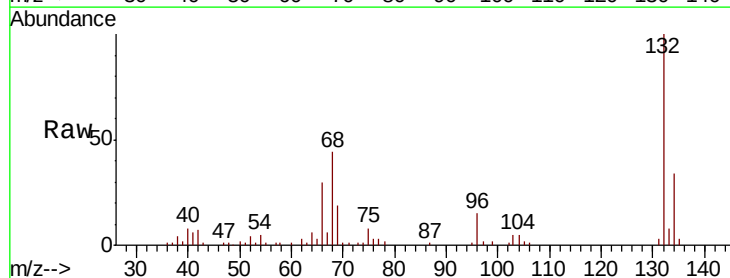
Tgt Ion: 77 Resp: 1749

Ion Ratio Lower Upper

77 100

105 78.6 73.4 113.4

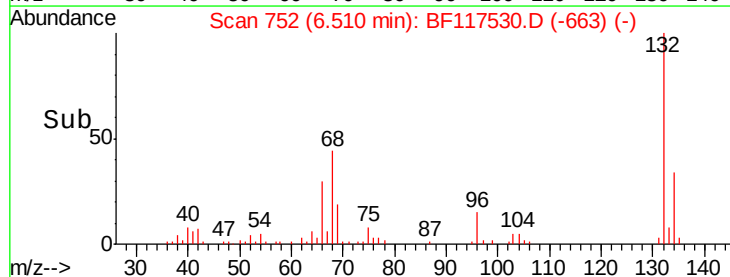
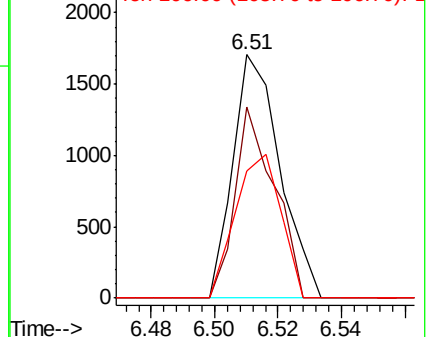
106 52.4 73.0 113.0#

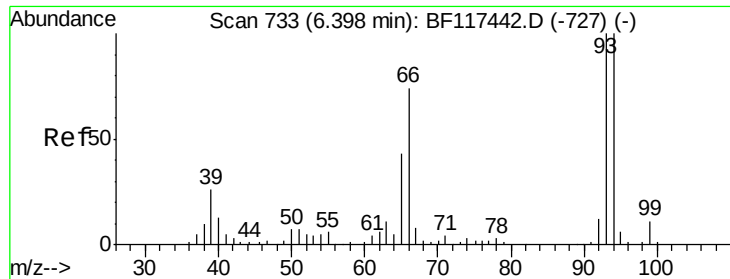


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

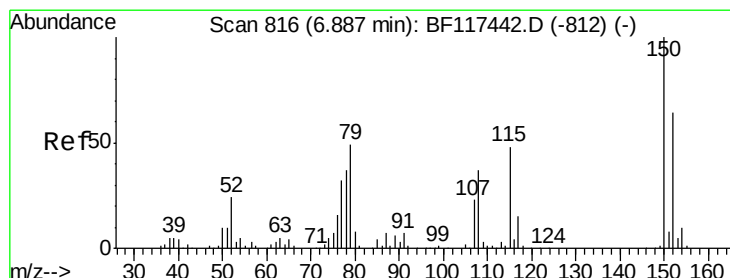
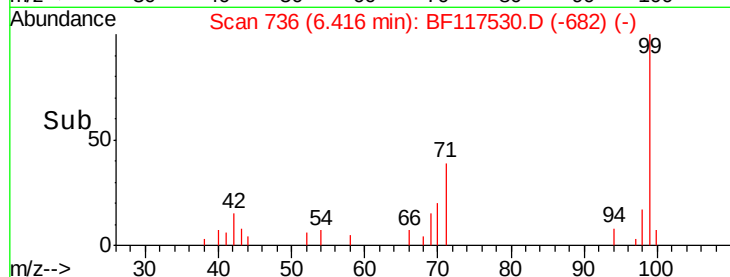
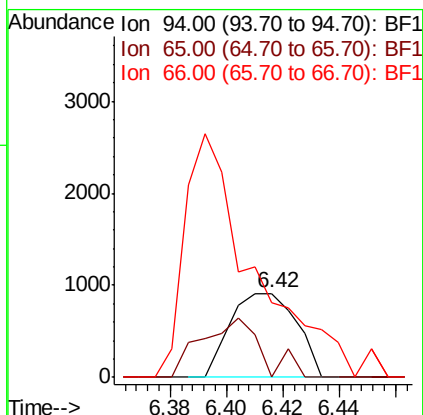
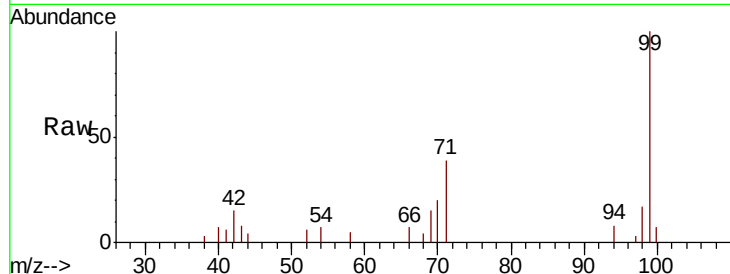




#10  
Phenol  
Concen: 0.307 ng  
RT: 6.42 min Scan# 736  
Delta R.T. 0.02 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

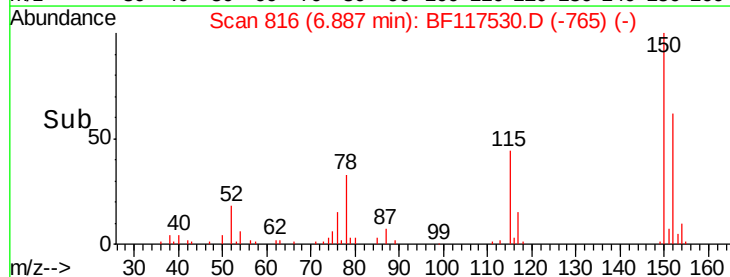
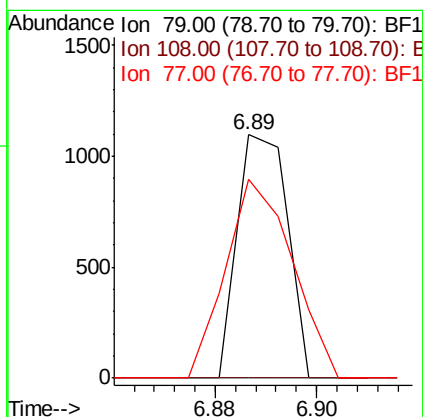
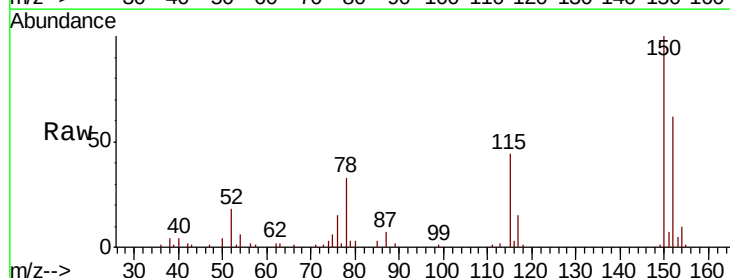
Instrument :  
BNA\_F  
ClientSampleId :  
190-20-(0-1)

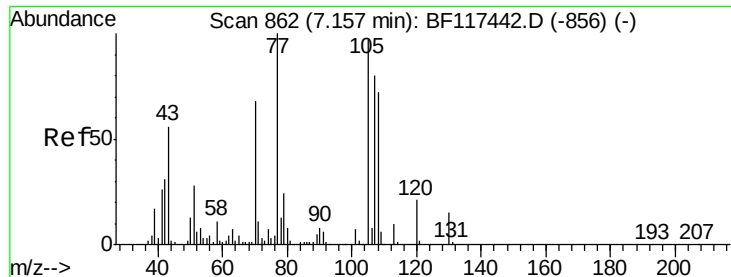
Tot Ion: 94 Resp: 1479  
Ion Ratio Lower Upper  
94 100  
65 0.0 23.4 63.4#  
66 89.6 54.7 94.7



#15  
Benzyl Alcohol  
Concen: 0.224 ng  
RT: 6.89 min Scan# 816  
Delta R.T. -0.00 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

Tgt Ion: 79 Resp: 755  
Ion Ratio Lower Upper  
79 100  
108 0.0 59.8 89.8#  
77 81.8 51.4 77.0#

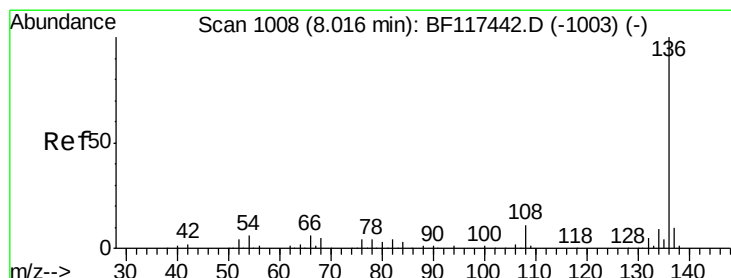
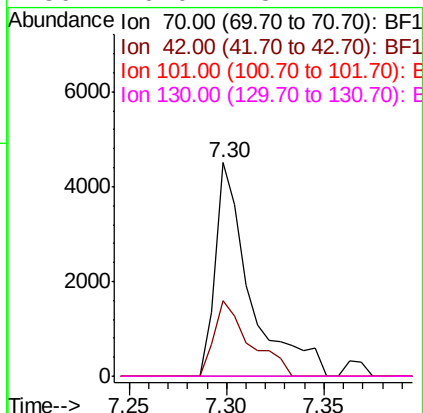
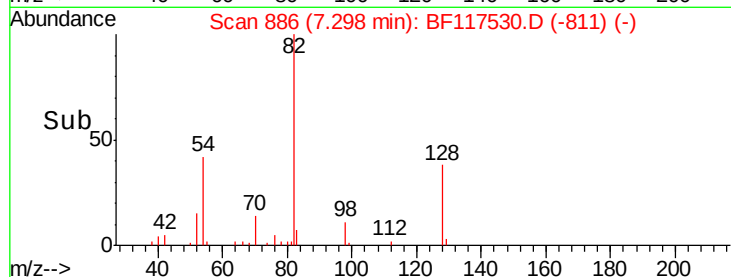
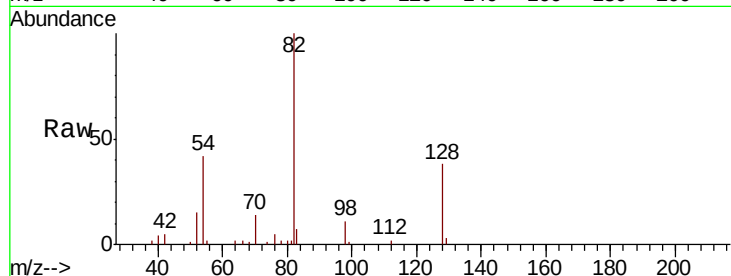




#19  
n-Nitroso-di-n-propylamine  
Concen: 1.920 ng  
RT: 7.30 min Scan# 886  
Delta R.T. 0.14 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

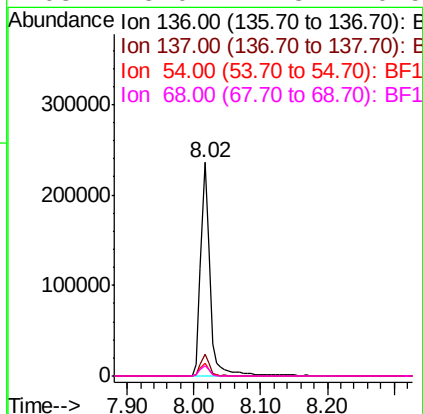
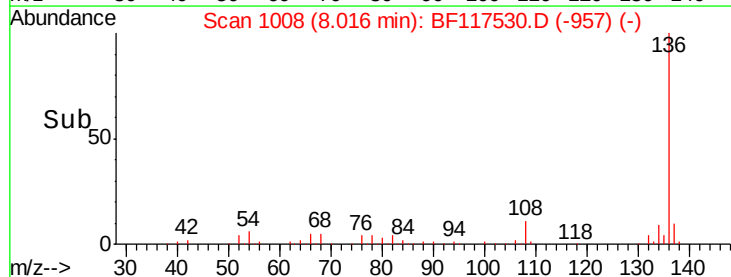
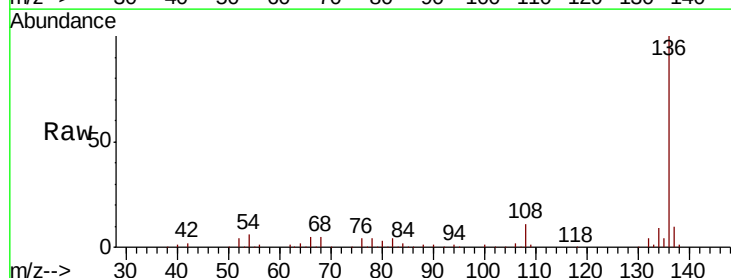
Instrument :  
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190-20-(0-1)

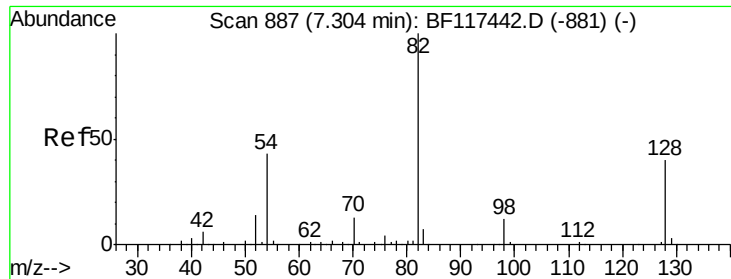
Tot Ion: 70 Resp: 5535  
Ion Ratio Lower Upper  
70 100  
42 35.3 36.7 55.1#  
101 0.0 8.3 12.5#  
130 0.0 18.1 27.1#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.02 min Scan# 1008  
Delta R.T. -0.00 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

Tgt Ion:136 Resp: 220362  
Ion Ratio Lower Upper  
136 100  
137 10.3 8.2 12.4  
54 6.0 4.5 6.7  
68 5.0 4.3 6.5

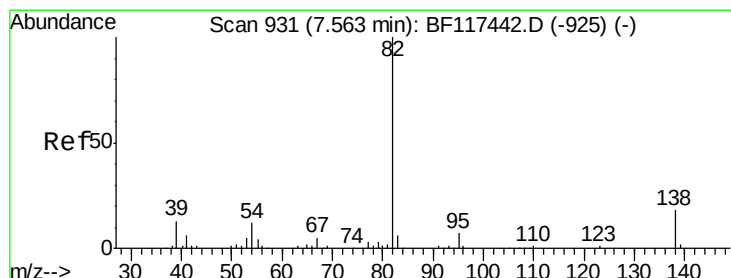
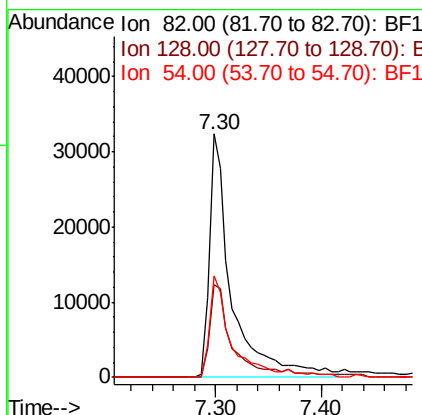
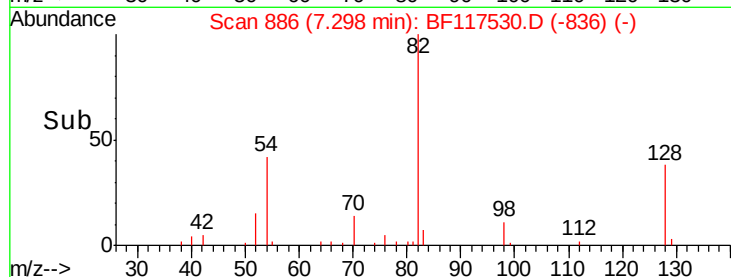
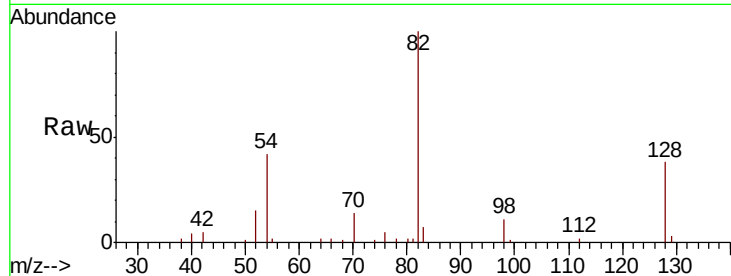




#23  
 Nitrobenzene-d5  
 Concen: 10.698 ng  
 RT: 7.30 min Scan# 886  
 Delta R.T. -0.01 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

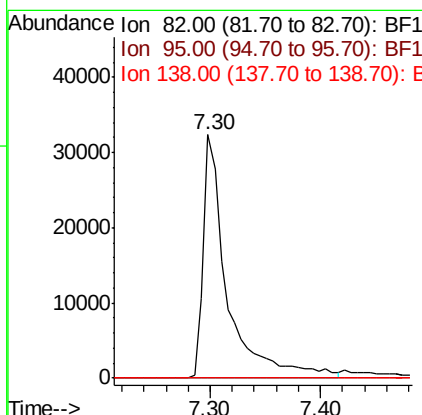
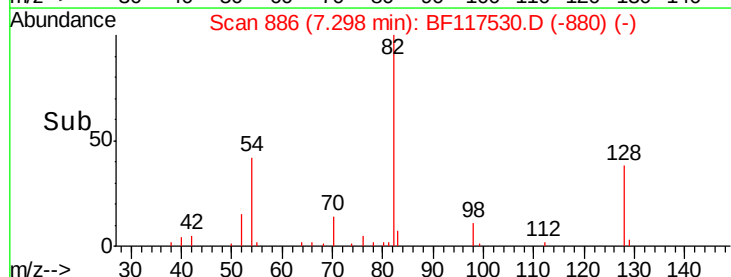
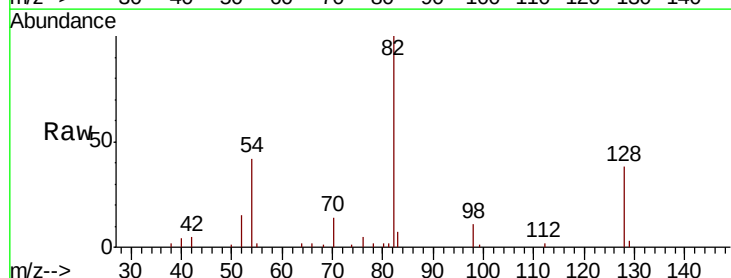
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 190-20-(0-1)

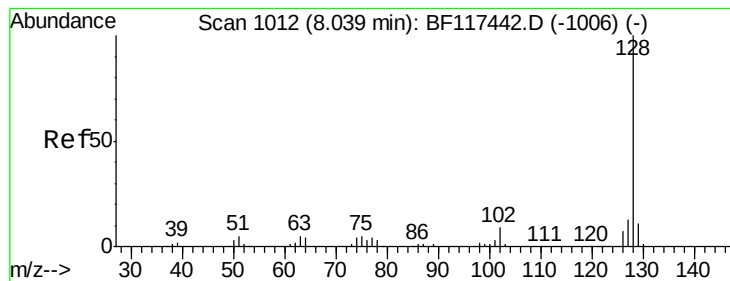
| Tot Ion   | 82    | Resp  | 47753 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 38.2  | 32.2  | 48.2  |
| 54        | 41.8  | 34.2  | 51.2  |



#25  
 Isophorone  
 Concen: 6.184 ng  
 RT: 7.30 min Scan# 886  
 Delta R.T. -0.26 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

| Tgt Ion   | 82    | Resp  | 47752 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 95        | 0.0   | 5.4   | 8.0#  |
| 138       | 0.0   | 14.2  | 21.2# |





#31

Naphthalene

Concen: 0.021 ng

RT: 8.04 min Scan# 1012

Delta R.T. -0.00 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

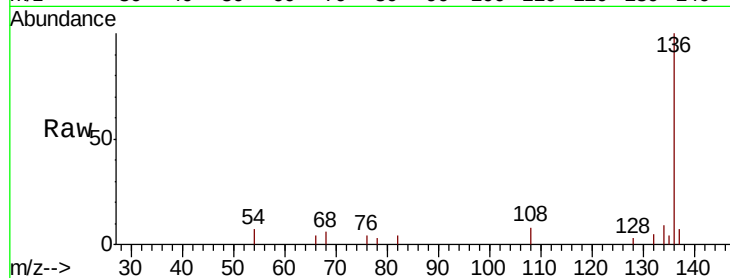
Tot Ion:128 Resp: 224

Ion Ratio Lower Upper

128 100

129 0.0 9.0 13.4#

127 0.0 10.2 15.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

8.04

300

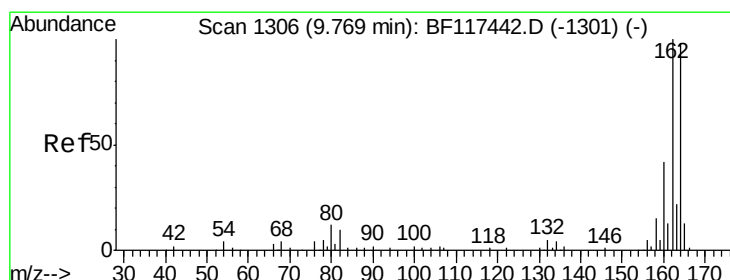
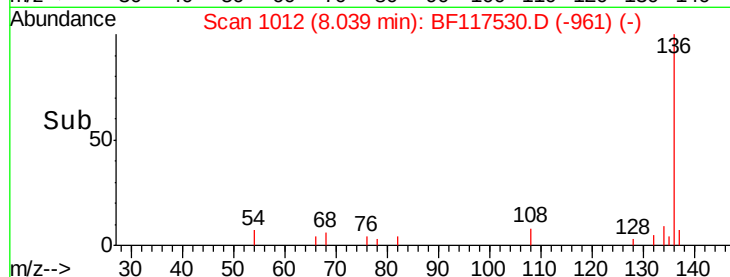
200

100

0

8.02 8.04 8.06

Time-->



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.00 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

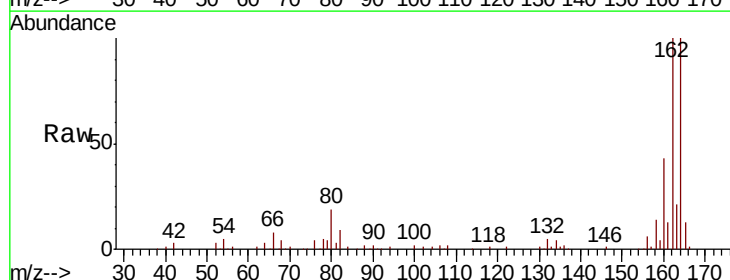
Tgt Ion:164 Resp: 105378

Ion Ratio Lower Upper

164 100

162 99.7 81.8 122.6

160 42.5 34.4 51.6



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

9.77

150000

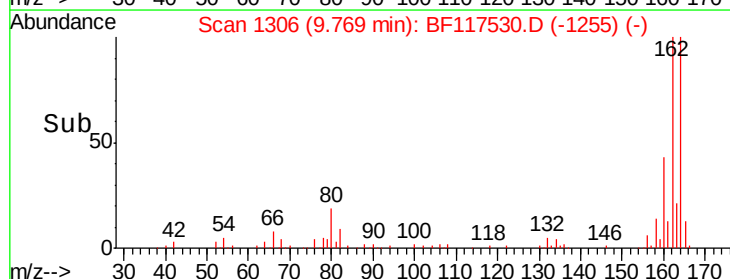
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50000

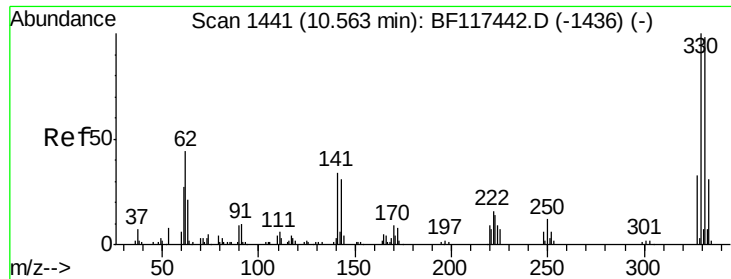
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9.70 9.75 9.80 9.85 9.90

Time-->







#42

2,4,6-Tribromophenol

Concen: 14.030 ng

RT: 10.56 min Scan# 1441

Delta R.T. -0.00 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

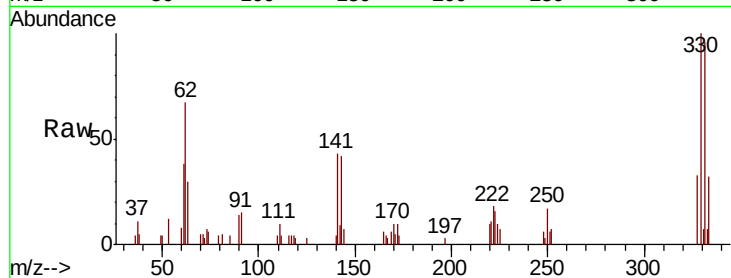
Tot Ion:330 Resp: 12792

Ion Ratio Lower Upper

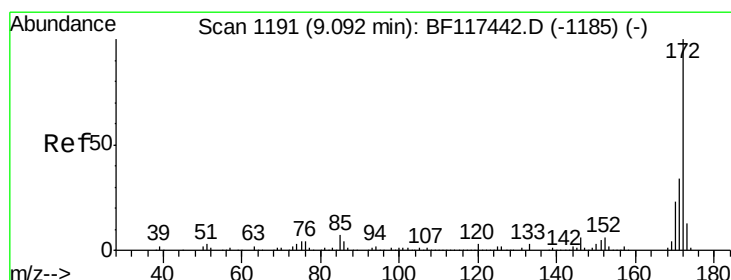
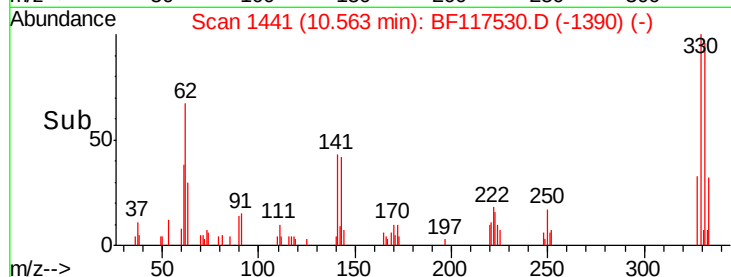
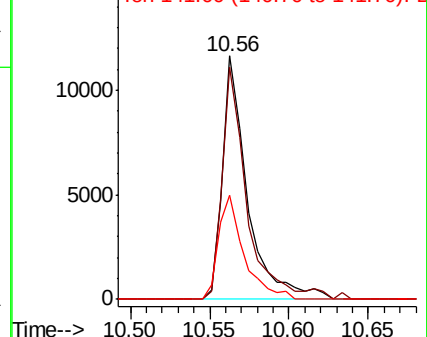
330 100

332 94.8 78.5 117.7

141 43.3 37.0 55.6



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: 11.334 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

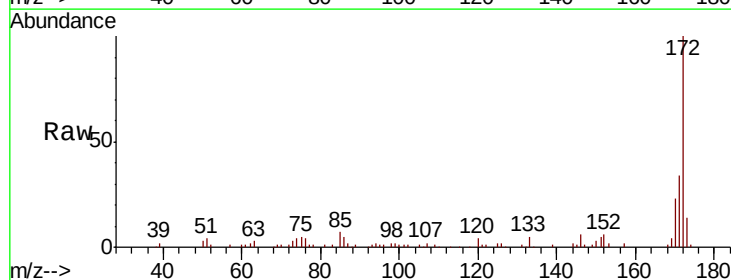
Tgt Ion:172 Resp: 84764

Ion Ratio Lower Upper

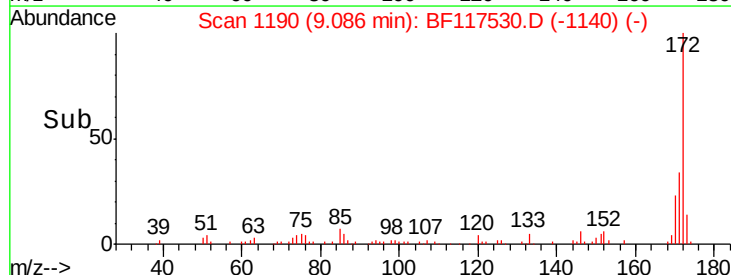
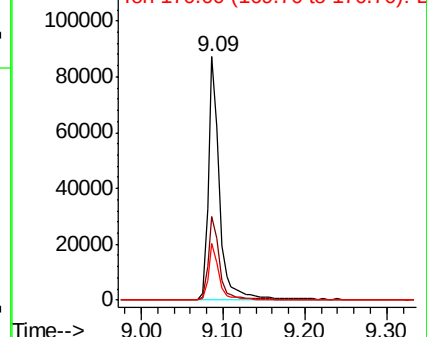
172 100

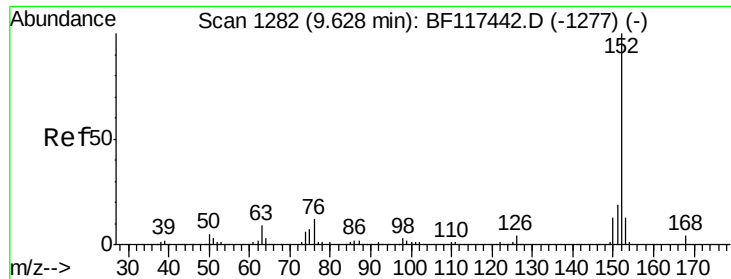
171 34.5 27.5 41.3

170 23.1 18.6 27.8



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

Acenaphthylene

Concen: 0.047 ng

RT: 9.63 min Scan# 1283

Delta R.T. 0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

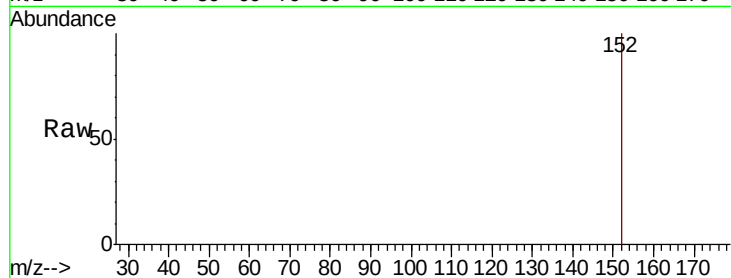
Tot Ion:152 Resp: 455

Ion Ratio Lower Upper

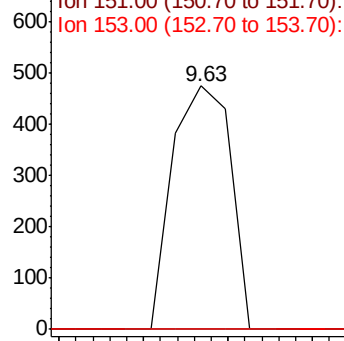
152 100

151 0.0 15.4 23.0#

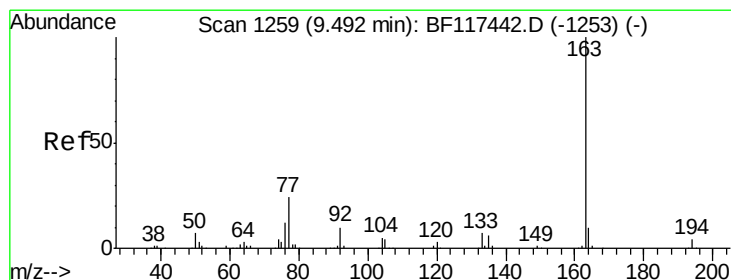
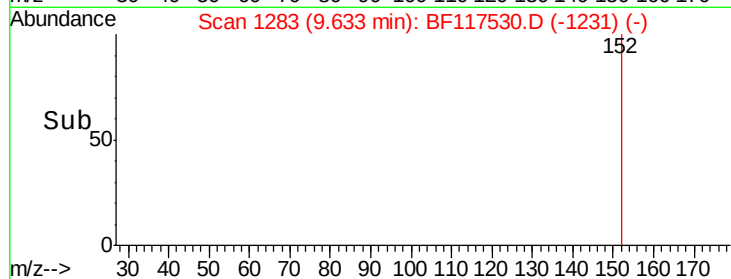
153 0.0 10.3 15.5#



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



Time-->



#50

Dimethylphthalate

Concen: 1.349 ng

RT: 9.49 min Scan# 1258

Delta R.T. -0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

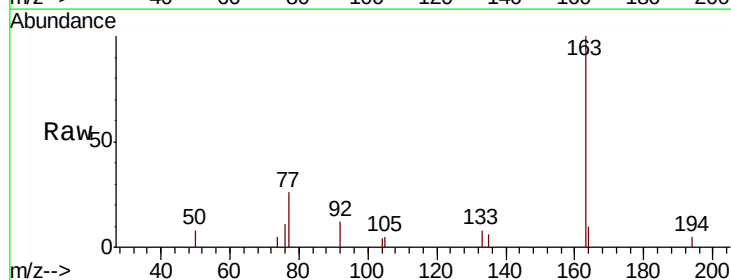
Tgt Ion:163 Resp: 10135

Ion Ratio Lower Upper

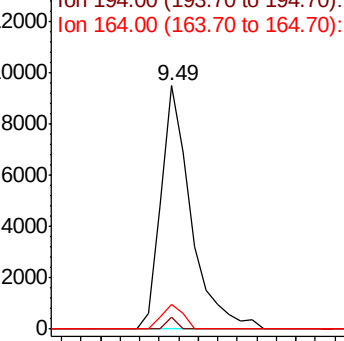
163 100

194 4.8 2.9 4.3#

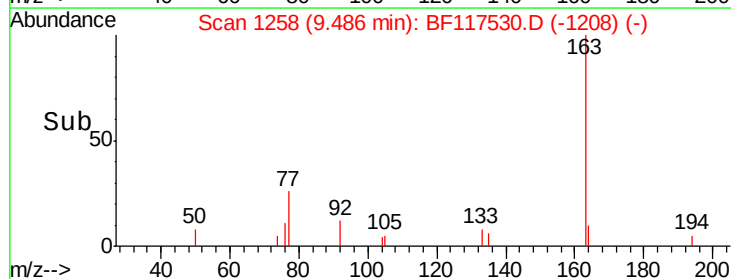
164 10.2 8.2 12.2

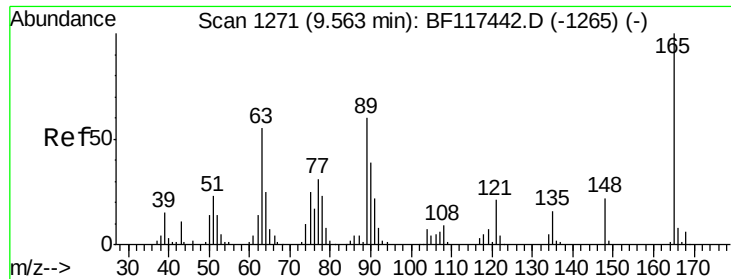


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



Time-->

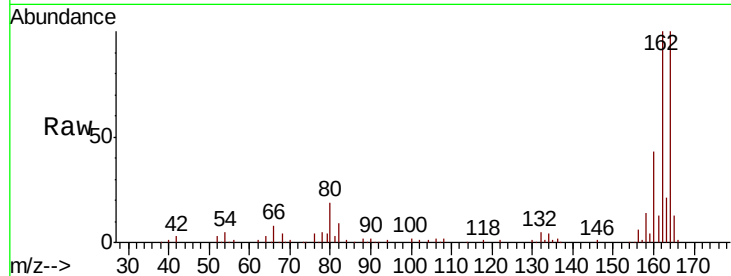




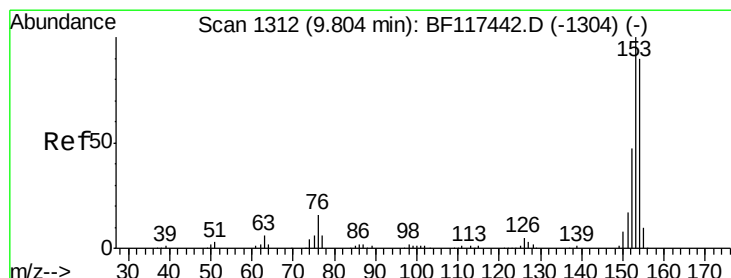
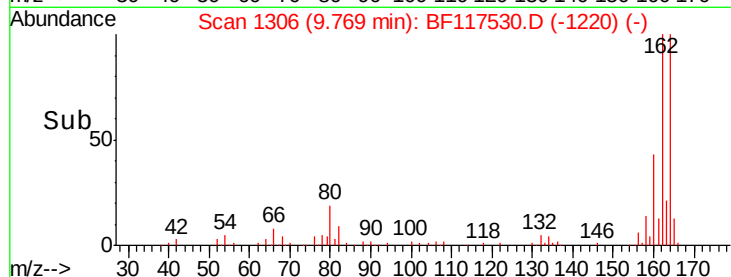
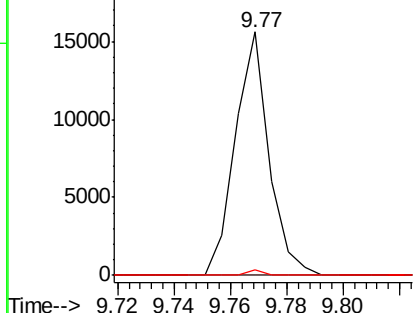
#51  
 2,6-Dinitrotoluene  
 Concen: 8.235 ng  
 RT: 9.77 min Scan# 1306  
 Delta R.T. 0.21 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 190-20-(0-1)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 43.8  | 65.8# |
| 89      | 2.0   | 47.6  | 71.4# |

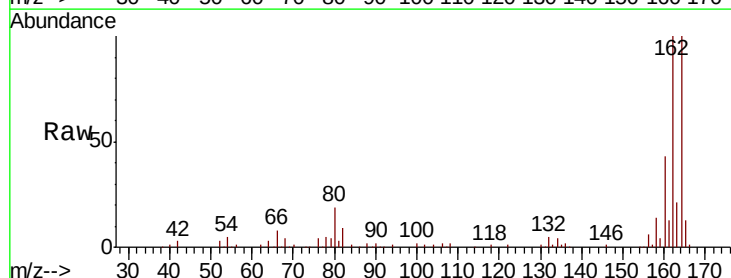


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

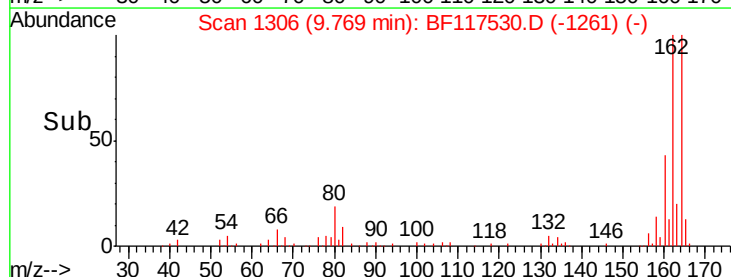
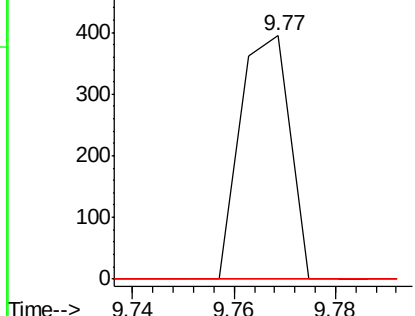


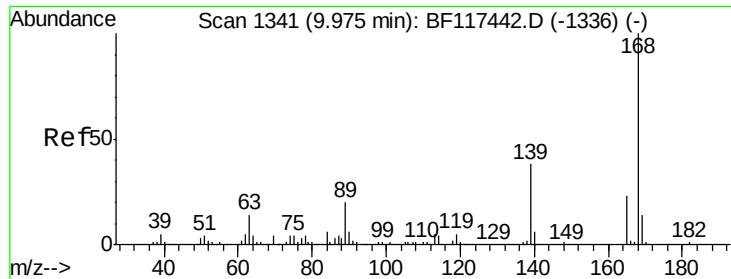
#52  
 Acenaphthene  
 Concen: 0.045 ng  
 RT: 9.77 min Scan# 1306  
 Delta R.T. -0.04 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 154     | 100   |       |        |
| 153     | 0.0   | 89.2  | 133.8# |
| 152     | 0.0   | 41.8  | 62.6#  |



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E

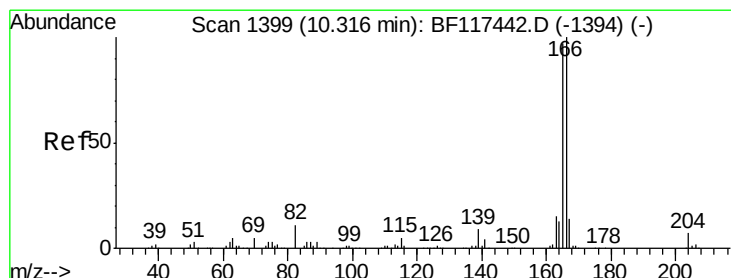
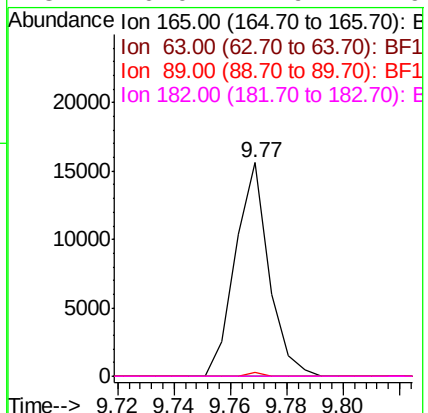
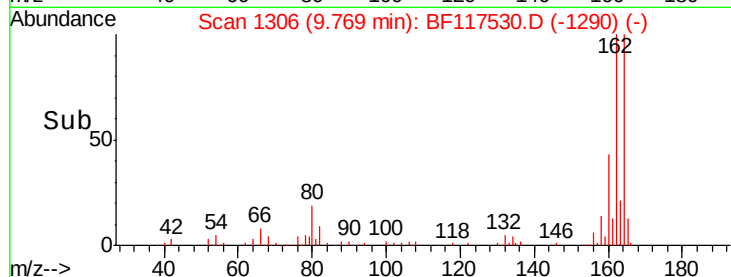
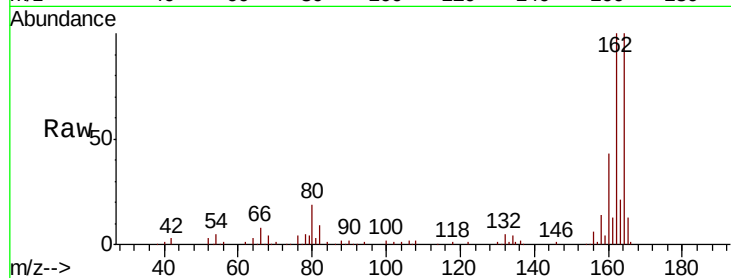




#57  
 2,4-Dinitrotoluene  
 Concen: 6.194 ng  
 RT: 9.77 min Scan# 1306  
 Delta R.T. -0.21 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

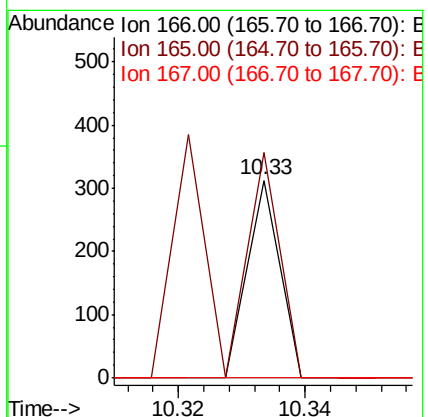
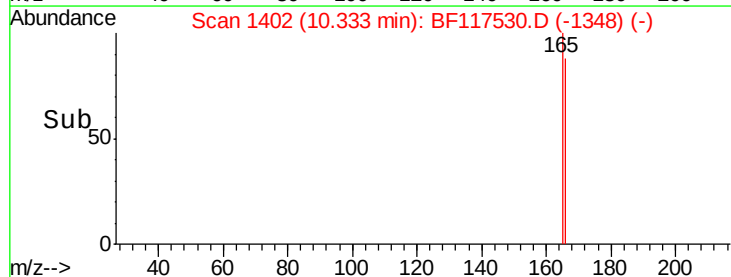
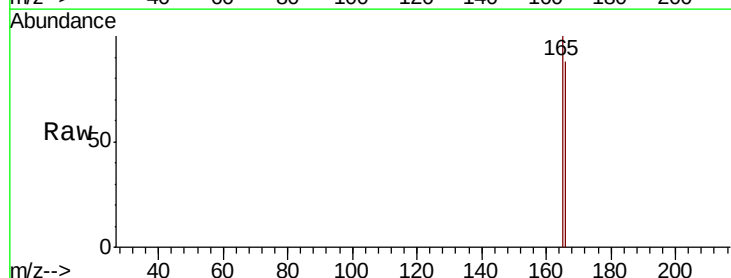
Instrument :  
 BNA\_F  
 ClientSampleId :  
 190-20-(0-1)

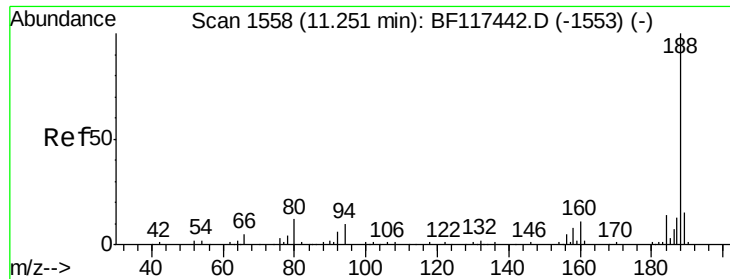
Tot Ion:165 Resp: 12909  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.4 77.0#  
 89 2.0 69.9 104.9#  
 182 0.0 1.9 2.9#



#58  
 Fluorene  
 Concen: 0.015 ng  
 RT: 10.33 min Scan# 1402  
 Delta R.T. 0.02 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

Tgt Ion:166 Resp: 110  
 Ion Ratio Lower Upper  
 166 100  
 165 114.1 77.6 116.4  
 167 0.0 11.0 16.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.26 min Scan# 1559

Delta R.T. 0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

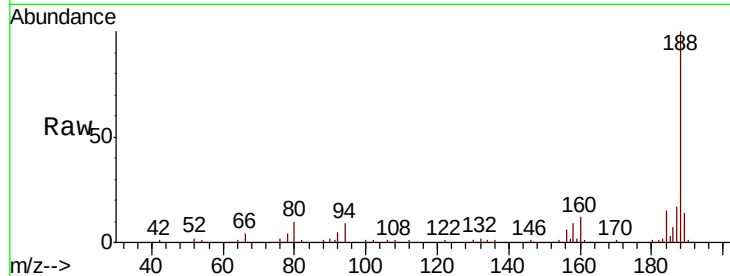
Tot Ion:188 Resp: 145396

Ion Ratio Lower Upper

188 100

94 9.3 8.0 12.0

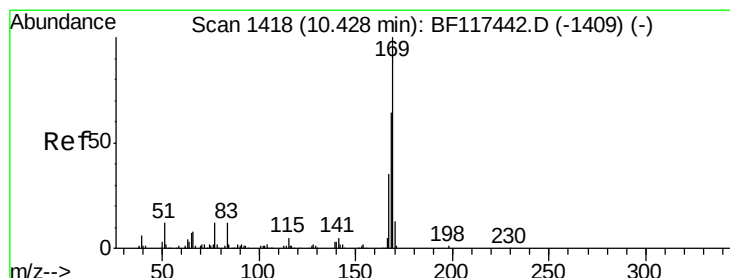
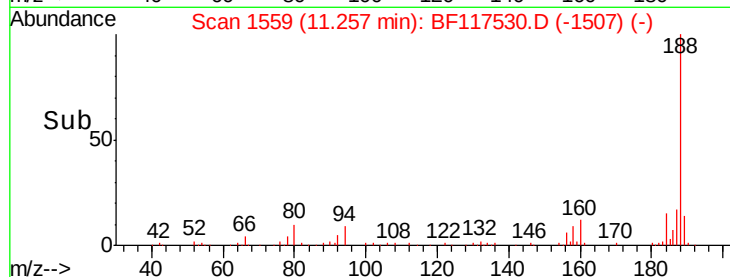
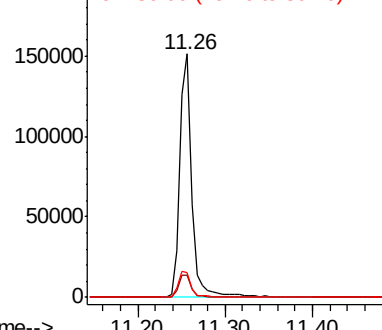
80 10.2 9.5 14.3



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



#66

n-Nitrosodiphenylamine

Concen: 0.103 ng

RT: 10.56 min Scan# 1441

Delta R.T. 0.14 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

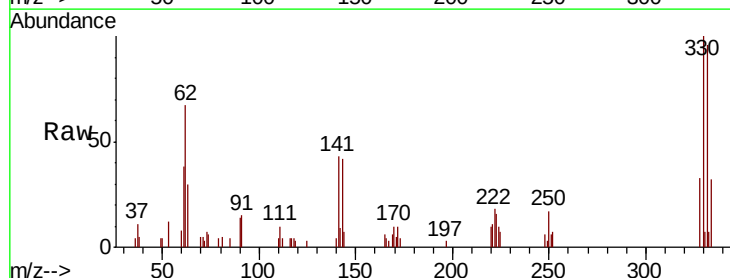
Tgt Ion:169 Resp: 548

Ion Ratio Lower Upper

169 100

168 0.0 51.3 76.9#

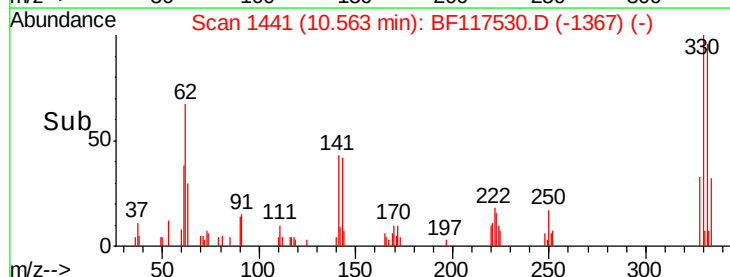
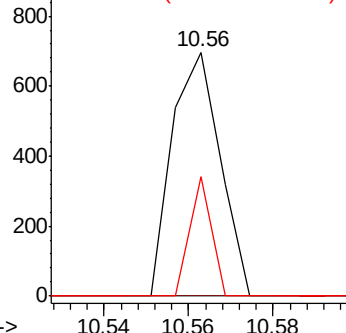
167 49.0 28.2 42.4#

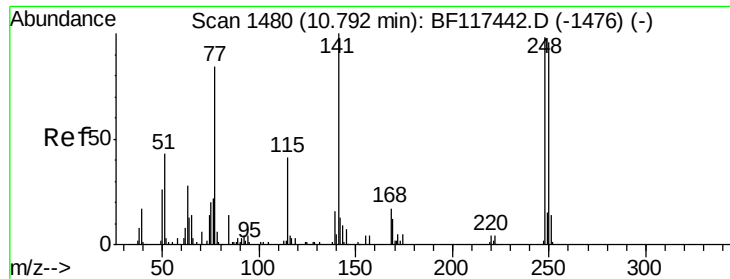


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E

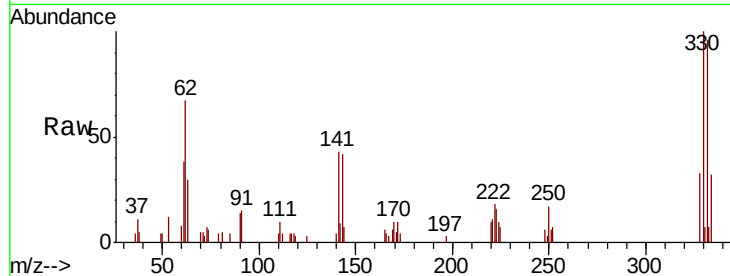




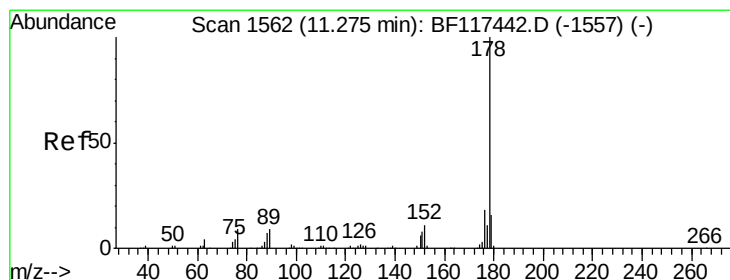
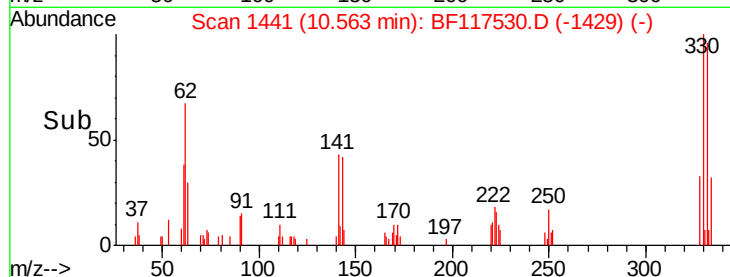
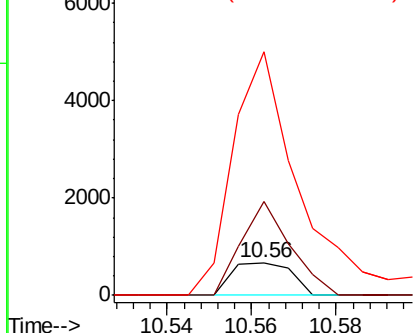
#67  
 4-Bromophenyl-phenylether  
 Concen: 0.423 ng  
 RT: 10.56 min Scan# 1441  
 Delta R.T. -0.23 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 190-20-(0-1)

Tot Ion:248 Resp: 662  
 Ion Ratio Lower Upper  
 248 100  
 250 288.9 78.0 117.0#  
 141 749.1 81.7 122.5#

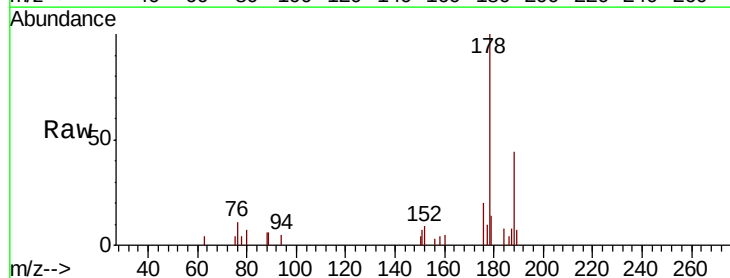


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

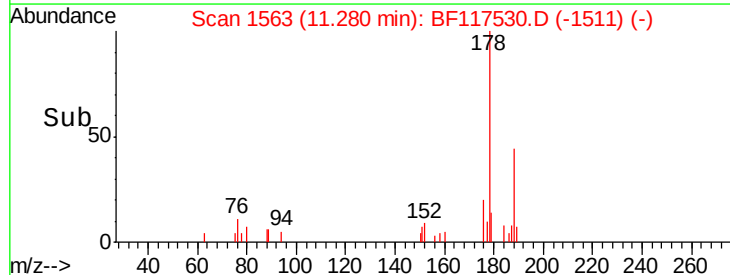
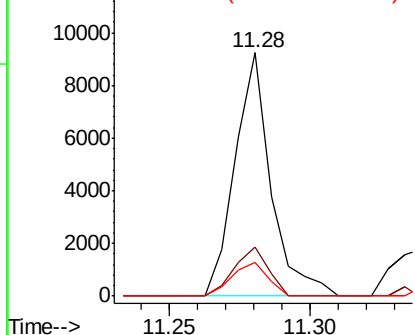


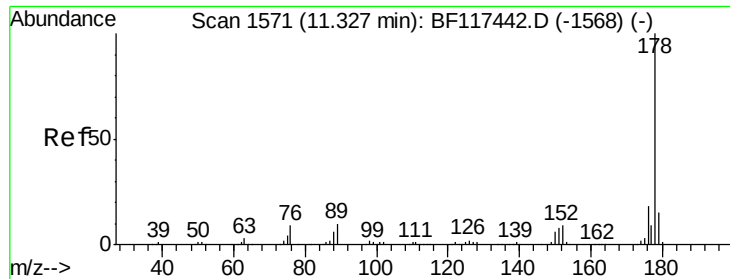
#71  
 Phenanthrene  
 Concen: 0.968 ng  
 RT: 11.28 min Scan# 1563  
 Delta R.T. 0.01 min  
 Lab File: BF117530.D  
 Acq: 25 Oct 2019 00:12

Tgt Ion:178 Resp: 8176  
 Ion Ratio Lower Upper  
 178 100  
 176 20.1 14.6 22.0  
 179 14.1 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 0.944 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.05 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

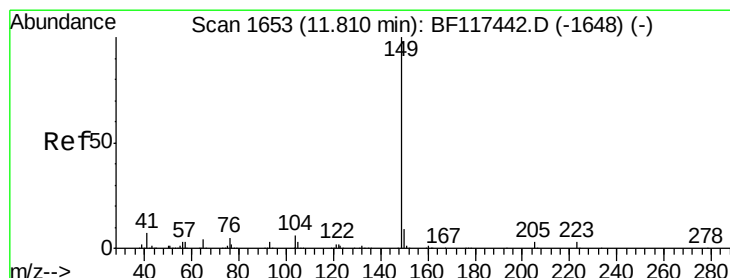
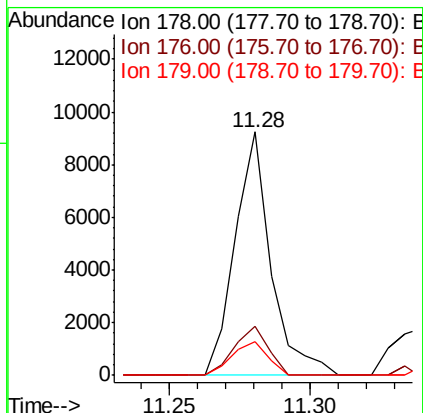
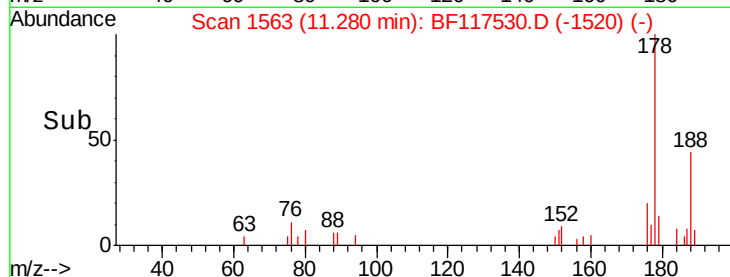
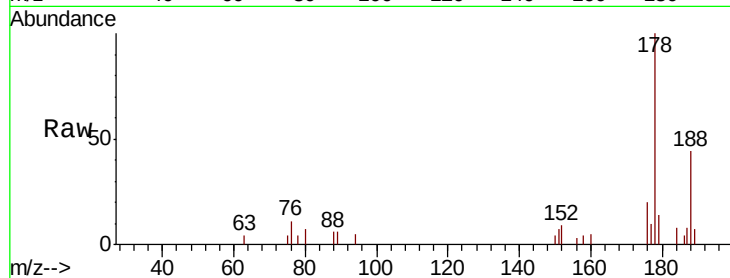
Tot Ion:178 Resp: 8176

Ion Ratio Lower Upper

178 100

176 20.1 14.7 22.1

179 14.1 12.2 18.2



#74

Di-n-butylphthalate

Concen: 0.010 ng

RT: 11.81 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

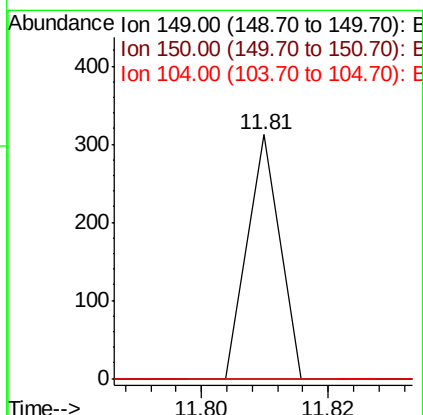
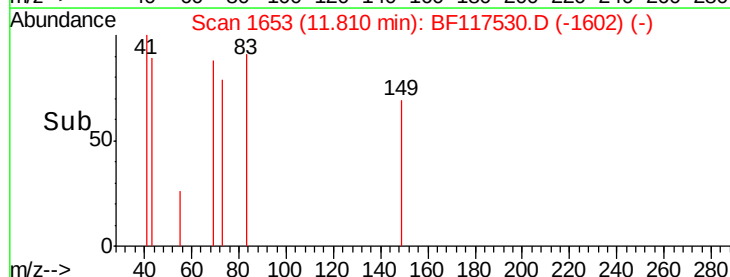
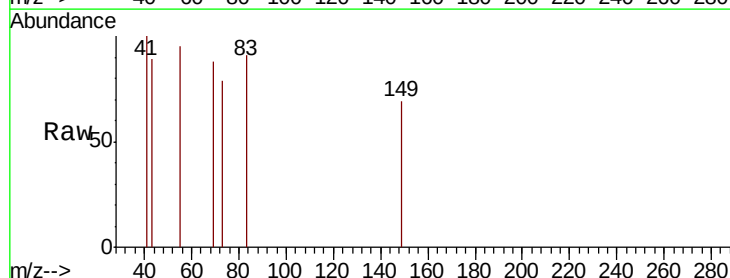
Tgt Ion:149 Resp: 110

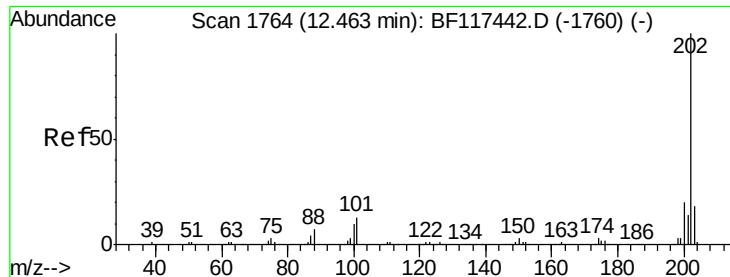
Ion Ratio Lower Upper

149 100

150 0.0 7.5 11.3#

104 0.0 4.6 6.8#





#75

Fluoranthene

Concen: 1.965 ng

RT: 12.47 min Scan# 1765

Delta R.T. 0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

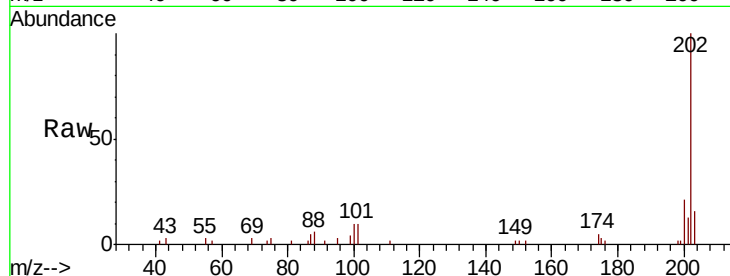
Tot Ion:202 Resp: 16605

Ion Ratio Lower Upper

202 100

101 10.5 0.0 32.7

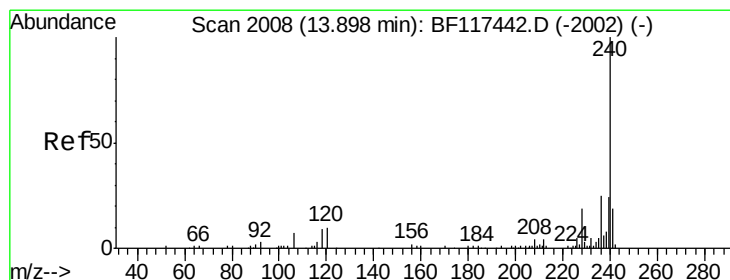
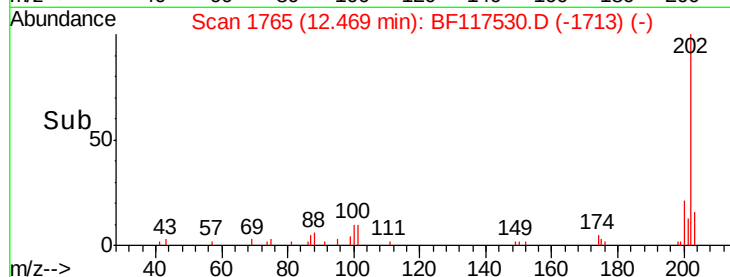
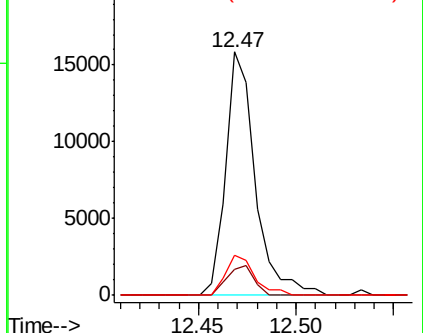
203 16.3 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

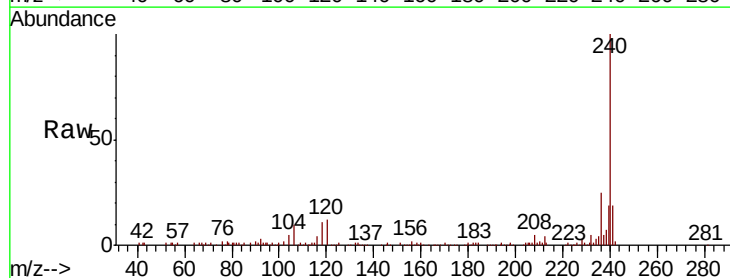
Tgt Ion:240 Resp: 104597

Ion Ratio Lower Upper

240 100

120 12.3 8.4 12.6

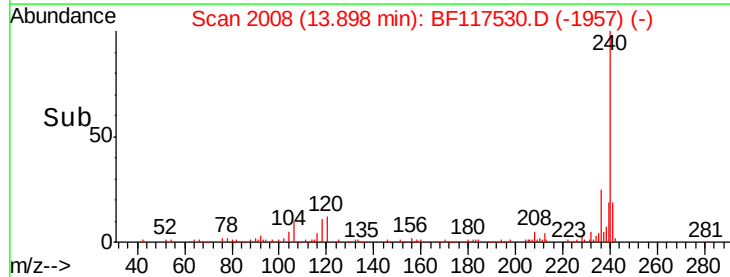
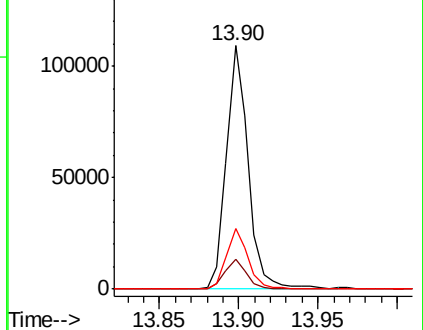
236 24.7 20.0 30.0



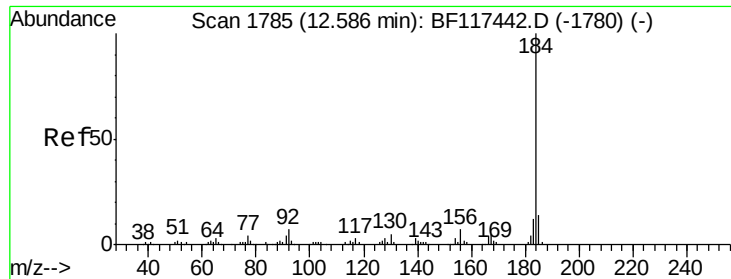
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E







#77

Benzidine

Concen: Below Cal

RT: 12.83 min Scan# 1827

Delta R.T. 0.25 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

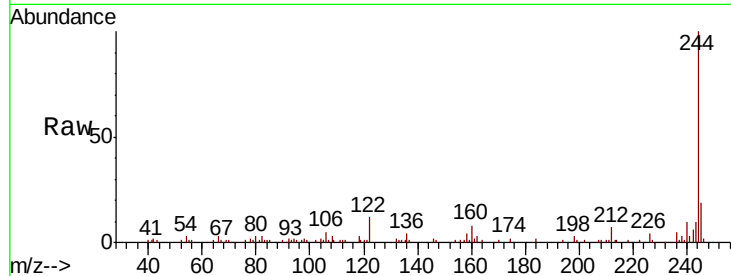
Tot Ion:184 Resp: 837

Ion Ratio Lower Upper

184 100

185 0.0 11.4 17.0#

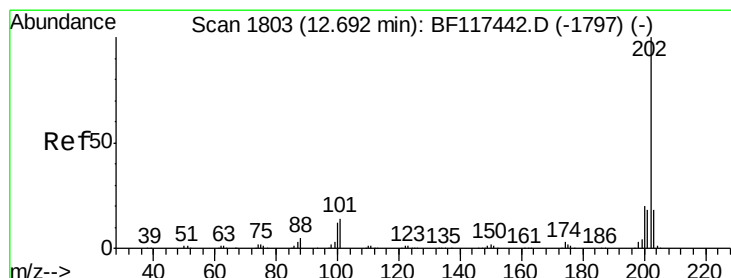
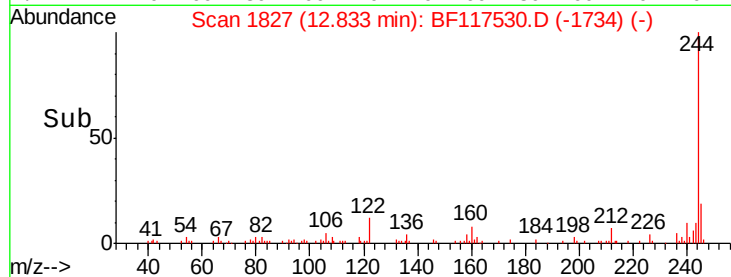
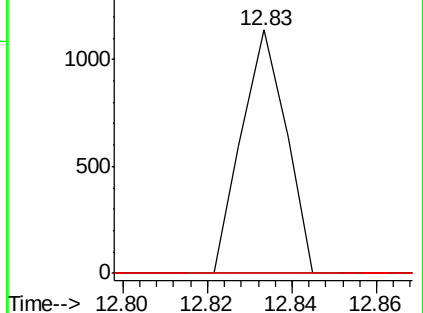
183 0.0 9.6 14.4#



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



#78

Pyrene

Concen: 1.571 ng

RT: 12.70 min Scan# 1804

Delta R.T. 0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

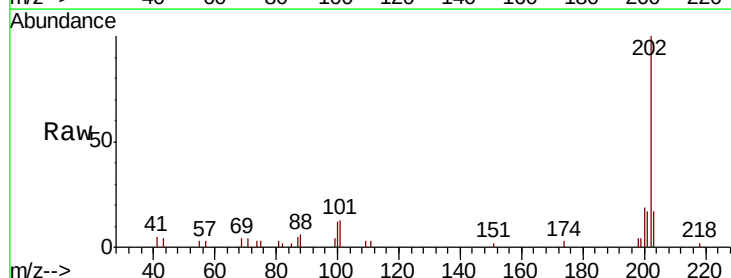
Tgt Ion:202 Resp: 14110

Ion Ratio Lower Upper

202 100

200 18.8 16.2 24.2

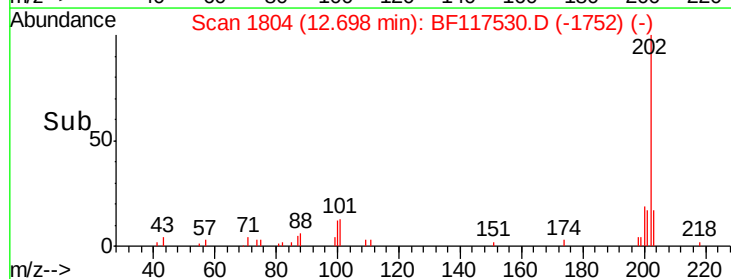
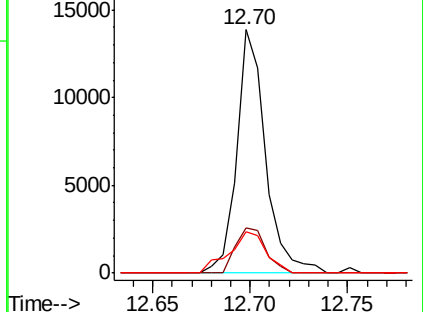
203 17.1 14.0 21.0

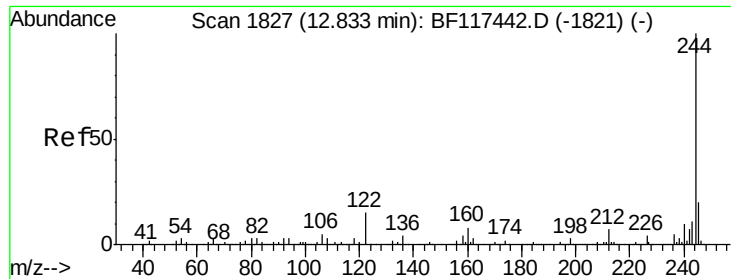


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 8.657 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.00 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

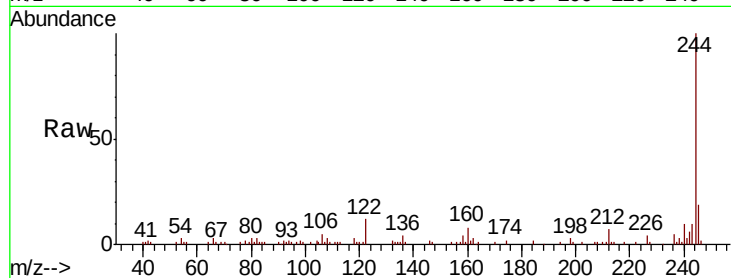
Tot Ion:244 Resp: 55513

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.6

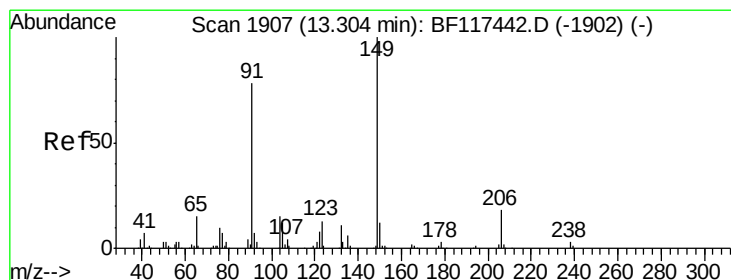
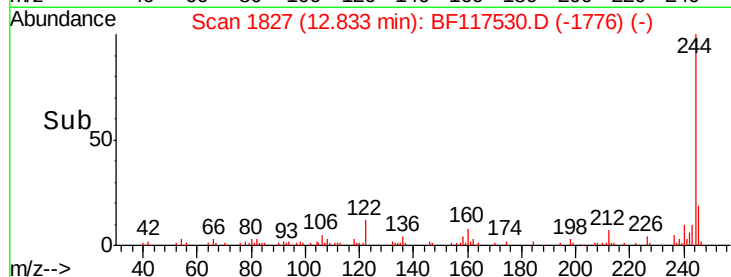
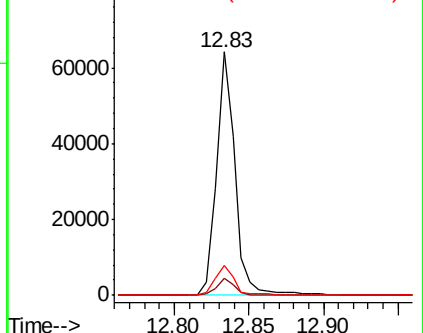
122 12.3 11.8 17.8



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



#80

Butylbenzylphthalate

Concen: 0.117 ng

RT: 13.32 min Scan# 1910

Delta R.T. 0.02 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

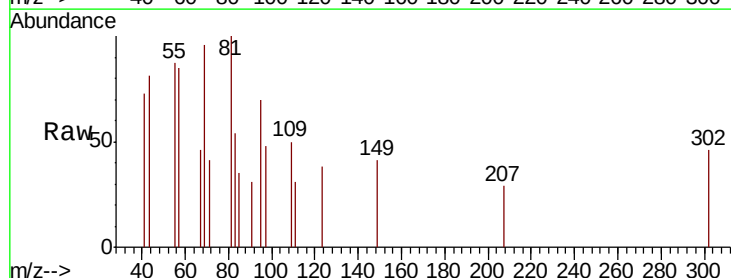
Tgt Ion:149 Resp: 523

Ion Ratio Lower Upper

149 100

91 74.3 62.1 93.1

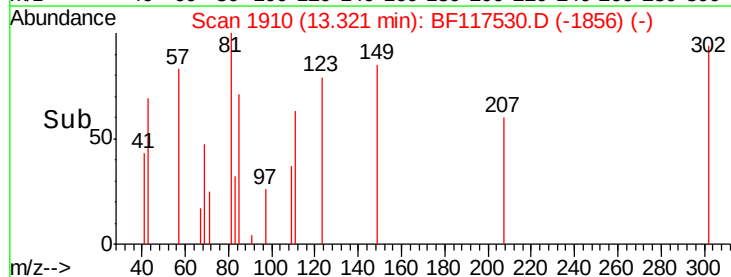
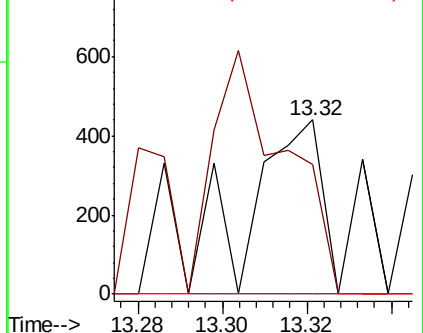
206 0.0 14.3 21.5#

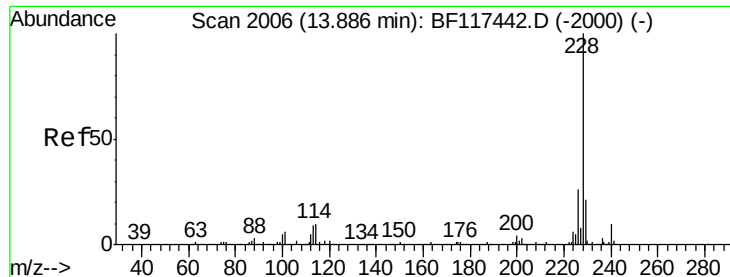


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E

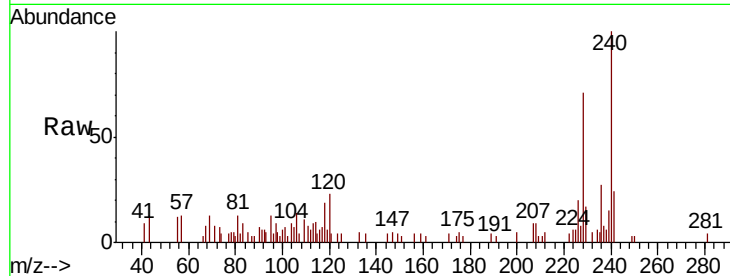




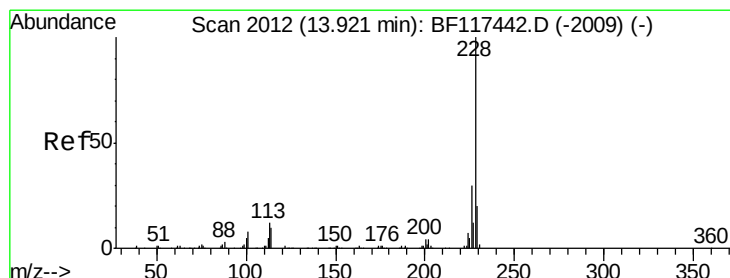
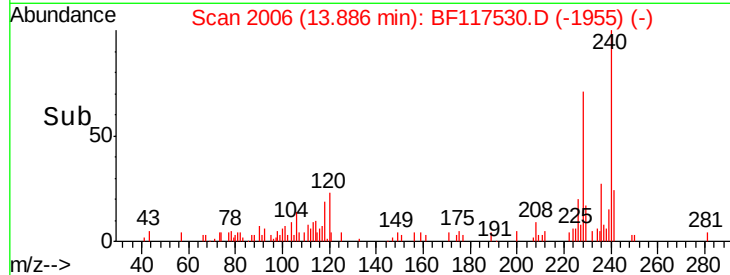
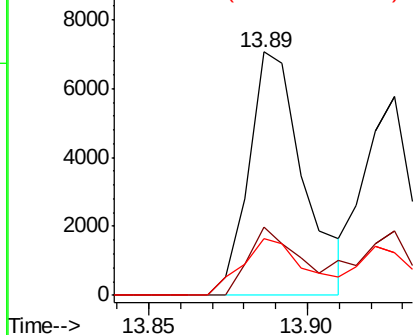
#81  
Benzo(a)anthracene  
Concen: 1.205 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. -0.00 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

Instrument :  
BNA\_F  
ClientSampleId :  
190-20-(0-1)

Tot Ion:228 Resp: 8504  
Ion Ratio Lower Upper  
228 100  
226 27.8 21.0 31.4  
229 23.5 16.4 24.6

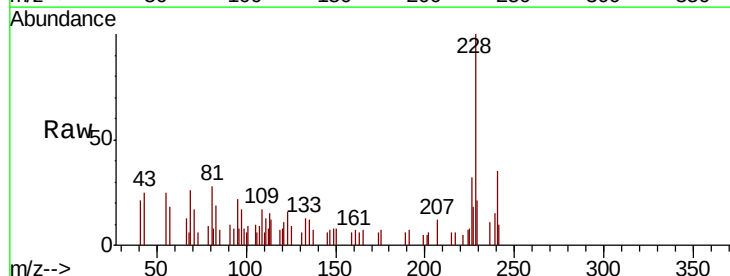


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

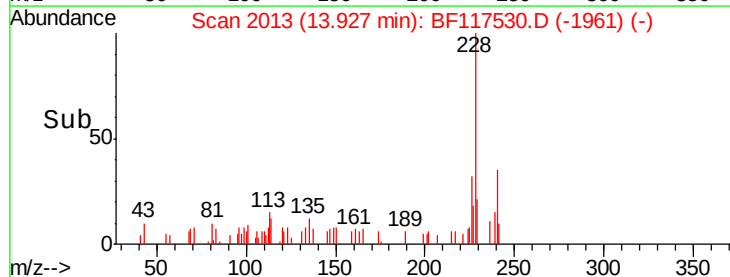
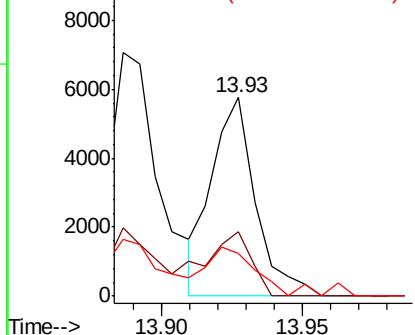


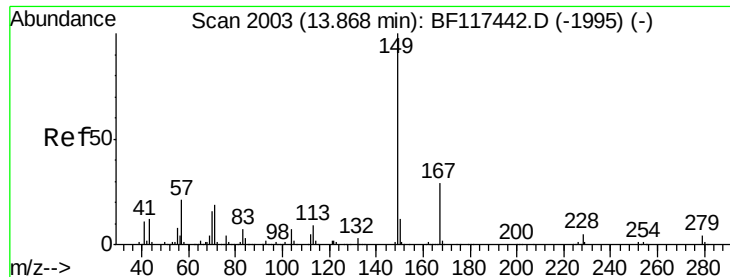
#83  
Chrysene  
Concen: 0.900 ng  
RT: 13.93 min Scan# 2013  
Delta R.T. 0.01 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

Tgt Ion:228 Resp: 6223  
Ion Ratio Lower Upper  
228 100  
226 32.5 23.9 35.9  
229 21.4 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 0.233 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

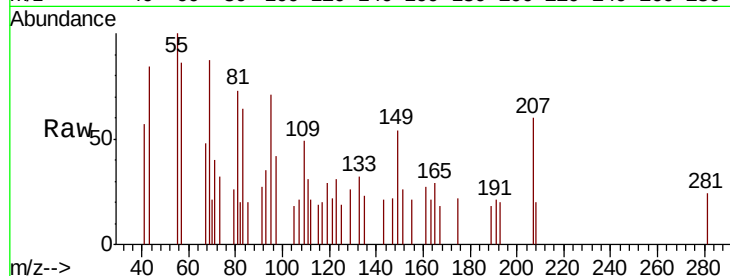
Tot Ion:149 Resp: 1460

Ion Ratio Lower Upper

149 100

167 33.7 23.3 34.9

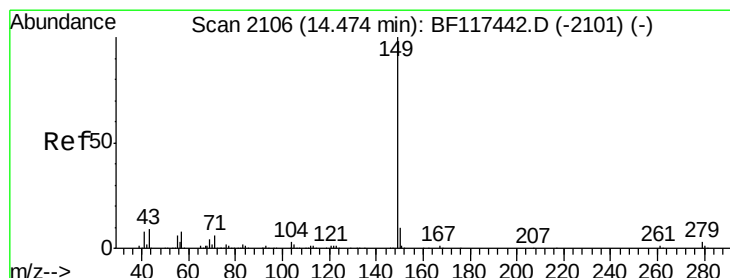
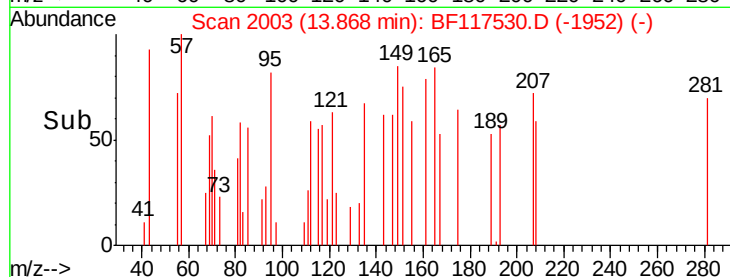
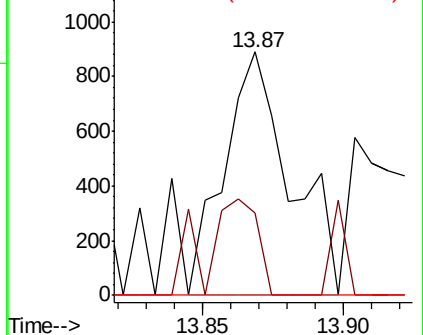
279 0.0 3.2 4.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 0.022 ng

RT: 14.47 min Scan# 2105

Delta R.T. -0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

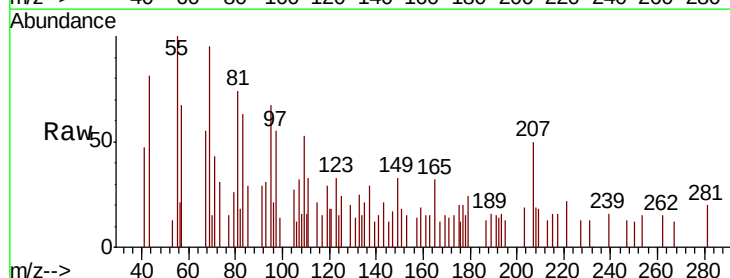
Tgt Ion:149 Resp: 214

Ion Ratio Lower Upper

149 100

167 167.3 1.2 1.8#

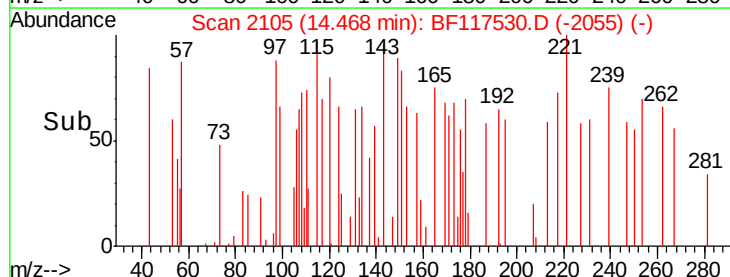
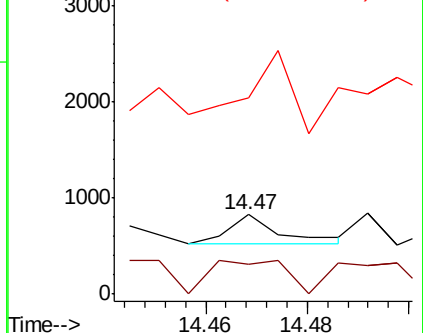
43 203.3 6.8 10.2#

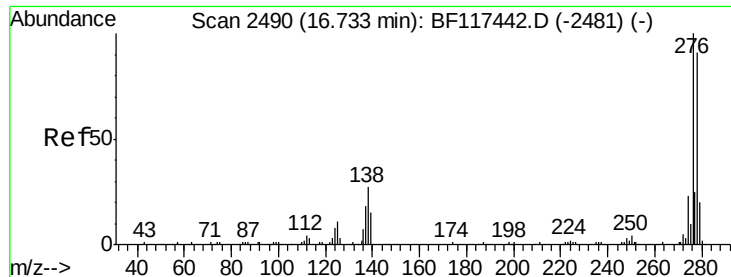


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1





#86

Indeno(1,2,3-cd)pyrene

Concen: 0.077 ng

RT: 16.61 min Scan# 2469

Delta R.T. -0.12 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

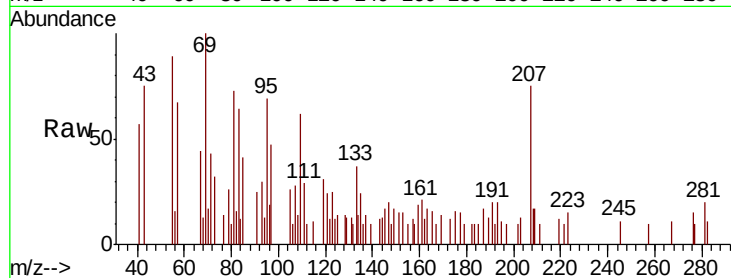
Tot Ion:276 Resp: 395

Ion Ratio Lower Upper

276 100

138 31.6 21.8 32.8

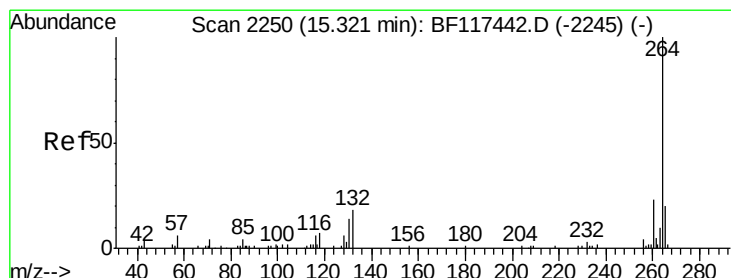
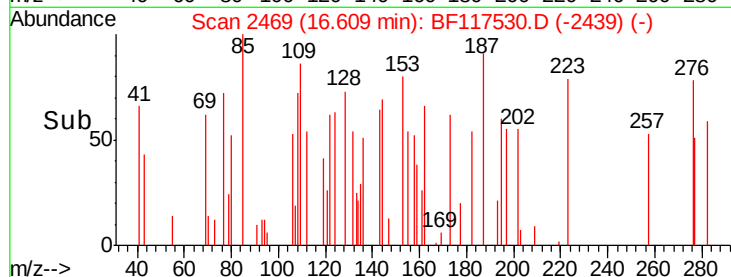
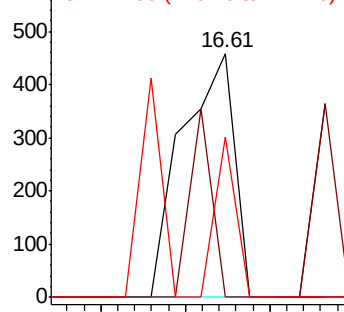
277 26.8 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.33 min Scan# 2252

Delta R.T. 0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

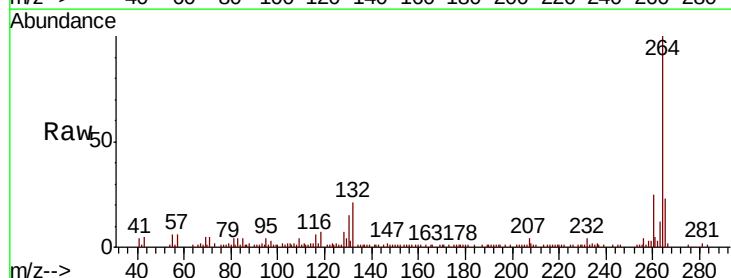
Tgt Ion:264 Resp: 78788

Ion Ratio Lower Upper

264 100

260 24.6 18.4 27.6

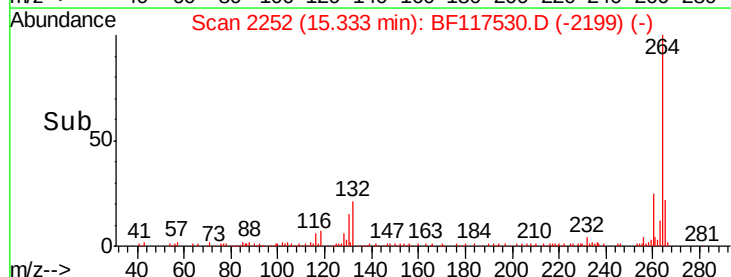
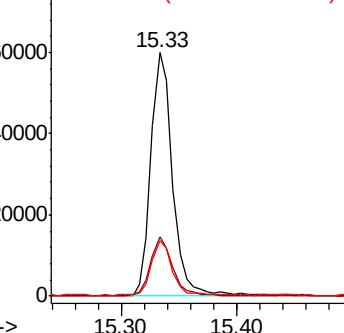
265 22.8 16.1 24.1

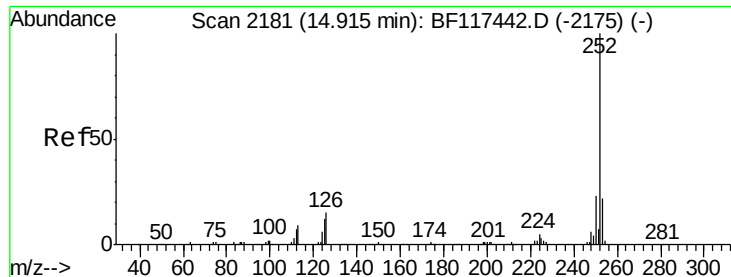


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

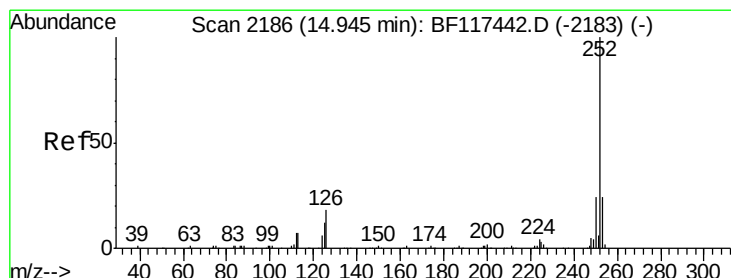
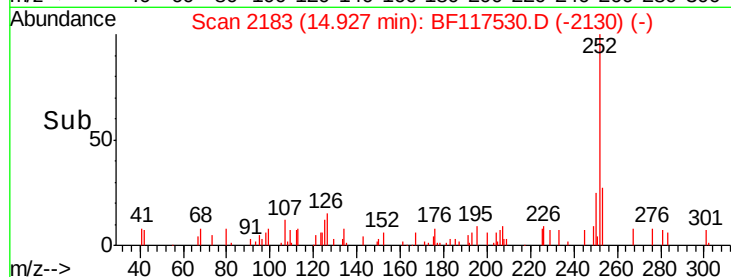
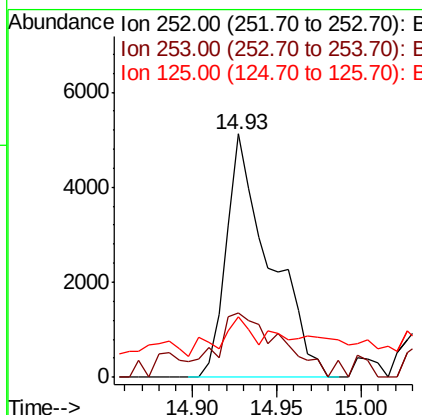
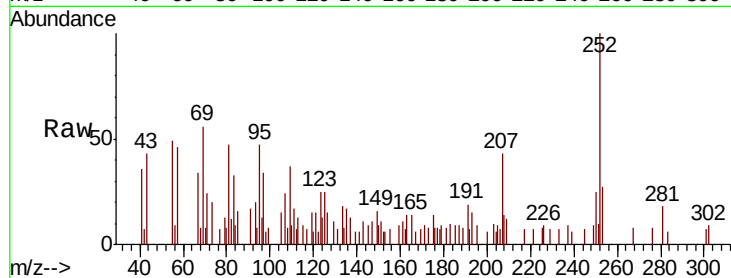




#88  
Benzo(b)fluoranthene  
Concen: 1.964 ng  
RT: 14.93 min Scan# 2183  
Delta R.T. 0.01 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

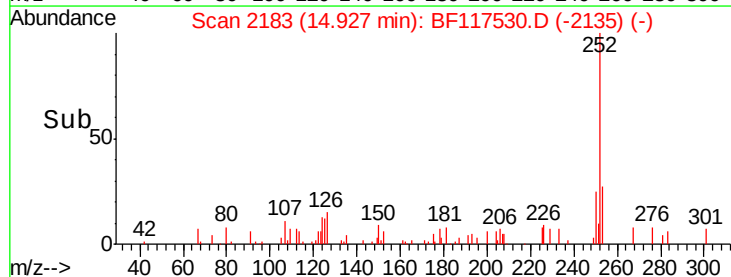
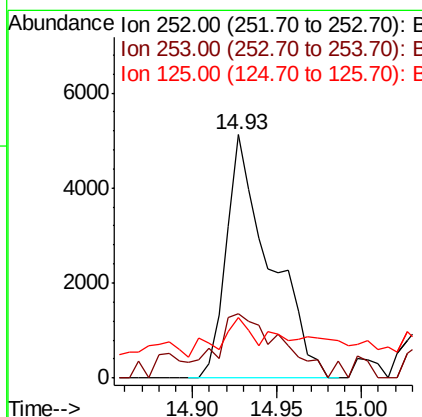
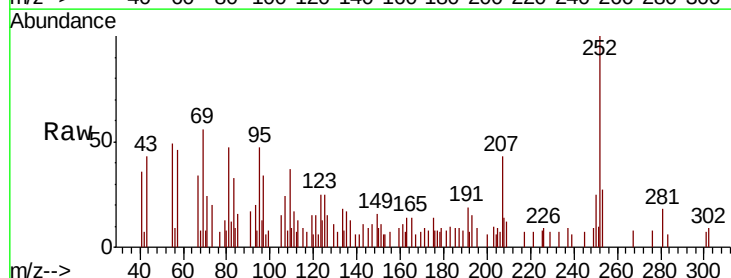
Instrument :  
BNA\_F  
ClientSampleId :  
190-20-(0-1)

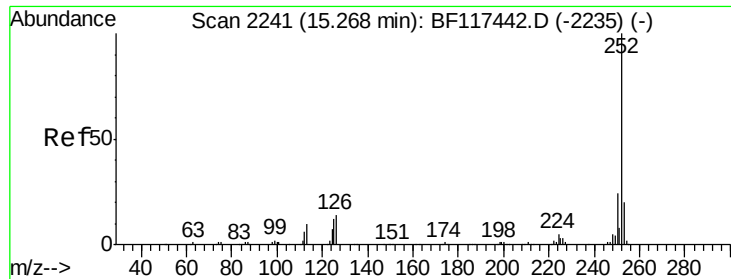
Tot Ion:252 Resp: 9136  
Ion Ratio Lower Upper  
252 100  
253 26.7 17.8 26.6#  
125 25.0 9.9 14.9#



#89  
Benzo(k)fluoranthene  
Concen: 1.916 ng  
RT: 14.93 min Scan# 2183  
Delta R.T. -0.02 min  
Lab File: BF117530.D  
Acq: 25 Oct 2019 00:12

Tgt Ion:252 Resp: 9136  
Ion Ratio Lower Upper  
252 100  
253 26.7 18.0 27.0  
125 25.0 8.9 13.3#





#90

Benzo(a)pyrene

Concen: 1.115 ng

RT: 15.28 min Scan# 2243

Delta R.T. 0.01 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

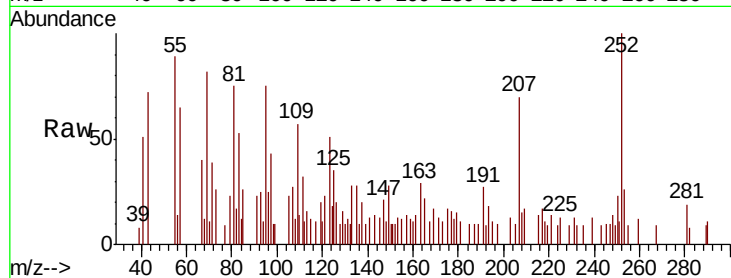
Tot Ion:252 Resp: 4715

Ion Ratio Lower Upper

252 100

253 25.5 16.3 24.5#

125 35.1 9.2 13.8#

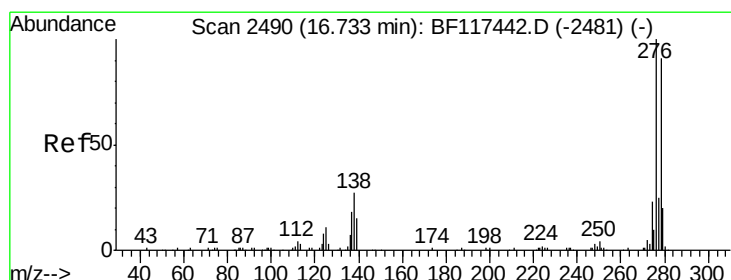
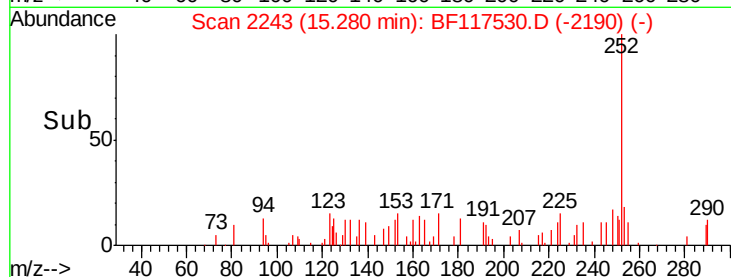
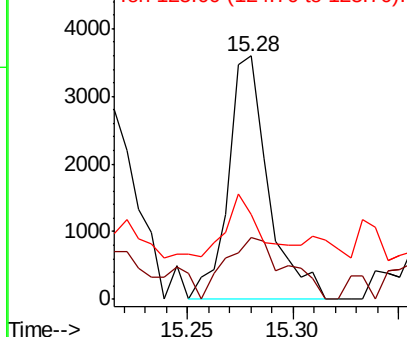


Abundance

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



#91

Dibenzo(a,h)anthracene

Concen: 0.164 ng

RT: 16.75 min Scan# 2493

Delta R.T. 0.02 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

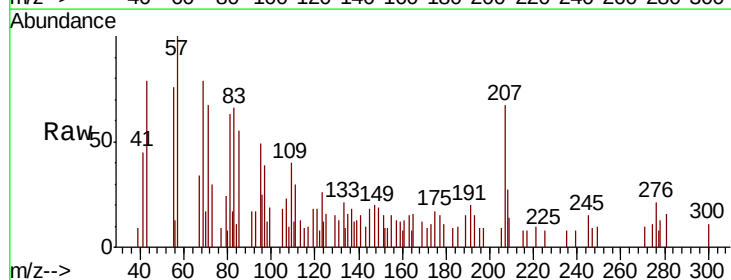
Tgt Ion:278 Resp: 600

Ion Ratio Lower Upper

278 100

139 101.1 13.4 20.0#

279 0.0 17.8 26.6#

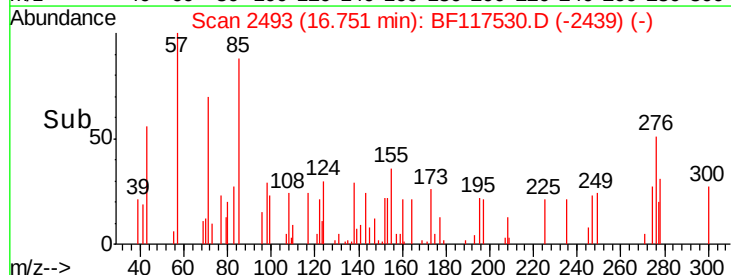
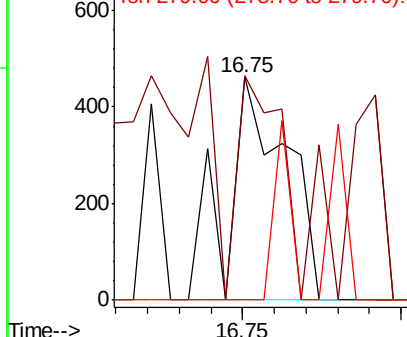


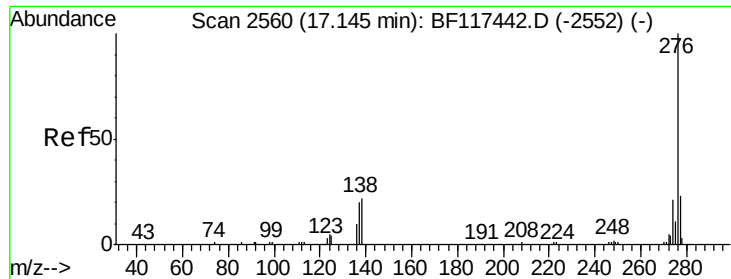
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 0.770 ng

RT: 17.19 min Scan# 2568

Delta R.T. 0.05 min

Lab File: BF117530.D

Acq: 25 Oct 2019 00:12

Instrument :

BNA\_F

ClientSampleId :

190-20-(0-1)

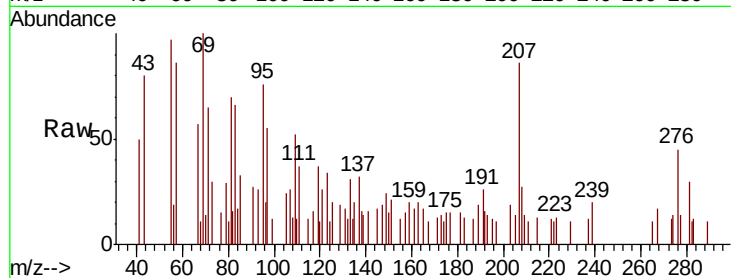
Tot Ion:276 Resp: 2666

Ion Ratio Lower Upper

276 100

277 31.5 18.4 27.6#

138 35.5 17.8 26.6#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

