

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040320\  
 Data File : BF119757.D  
 Acq On : 4 Apr 2020 10:45  
 Operator : MA/SJ  
 Sample : L2100-07  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239-105060708-0-6

Quant Time: Apr 06 00:31:19 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF031820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 01 11:59:45 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 175852   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.09  | 136  | 626901   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 9.85  | 164  | 284283   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.33 | 188  | 449105   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 13.97 | 240  | 326998   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 15.43 | 264  | 276823   | 20.00 | ng    | -0.02    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.43  | 112 | 1678442 | 151.94 | ng | 0.01  |
| 7) Phenol-d6                | 6.45  | 99  | 2069937 | 146.69 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 1276408 | 110.66 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330 | 436643  | 148.88 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 9.17  | 172 | 1957813 | 102.03 | ng | -0.01 |
| 79) Terphenyl-d14           | 12.92 | 244 | 1576055 | 94.43  | ng | -0.02 |

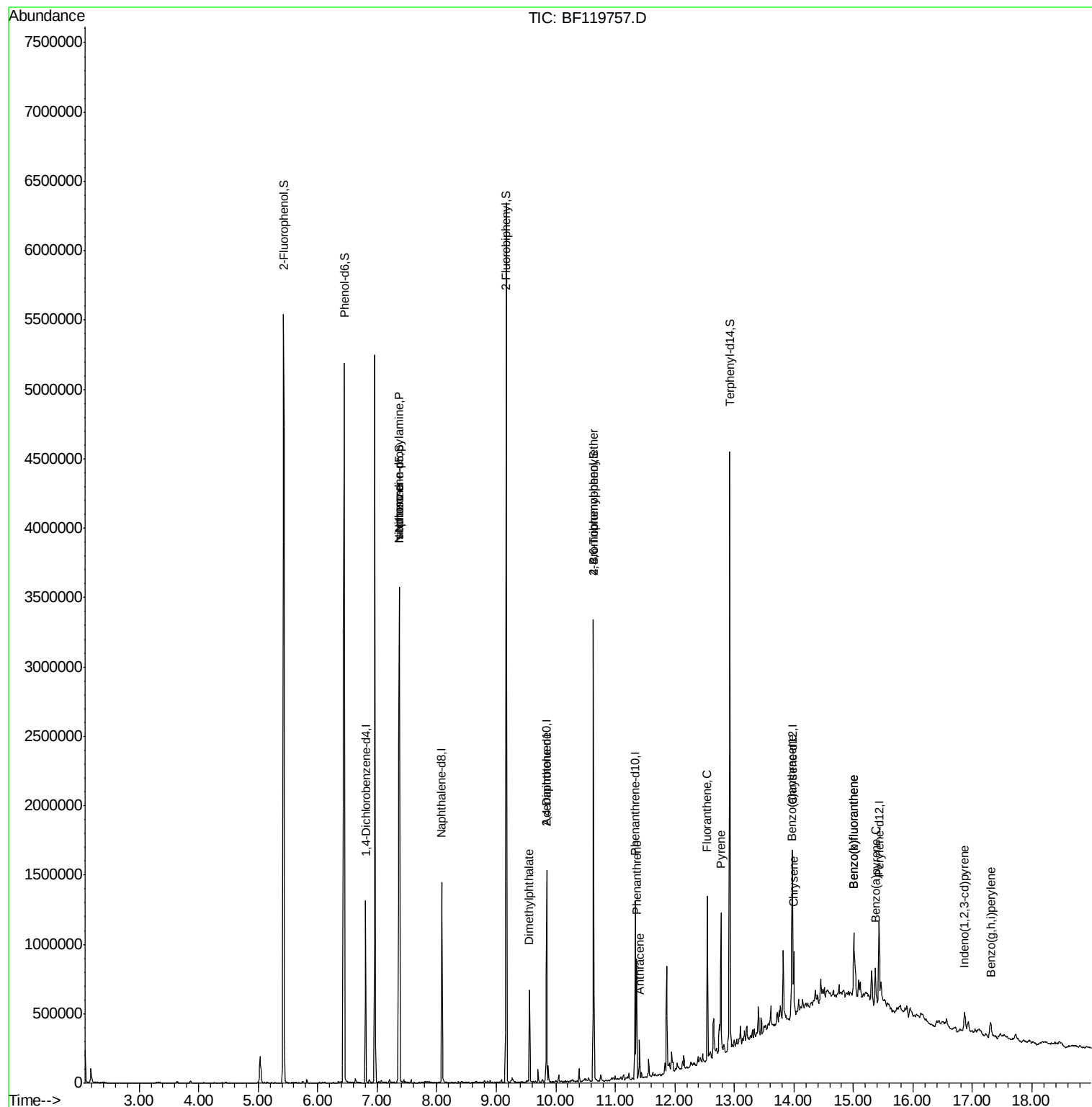
|                                |       |     |         |       |    |        |
|--------------------------------|-------|-----|---------|-------|----|--------|
| Target Compounds               |       |     |         |       |    | Qvalue |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70  | 167413  | 19.68 | ng | # 77   |
| 25) Isophorone                 | 7.37  | 82  | 1276398 | 54.55 | ng | # 65   |
| 50) Dimethylphthalate          | 9.56  | 163 | 270170  | 13.38 | ng | 100    |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165 | 37282   | 6.84  | ng | # 20   |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248 | 26518   | 5.18  | ng | # 1    |
| 71) Phenanthrene               | 11.36 | 178 | 291281  | 12.51 | ng | 96     |
| 72) Anthracene                 | 11.40 | 178 | 111612  | 4.72  | ng | 95     |
| 75) Fluoranthene               | 12.54 | 202 | 450227  | 17.86 | ng | 98     |
| 78) Pyrene                     | 12.77 | 202 | 414554  | 15.45 | ng | 97     |
| 81) Benzo(a)anthracene         | 13.96 | 228 | 185756  | 8.74  | ng | 97     |
| 83) Chrysene                   | 14.00 | 228 | 184891  | 8.43  | ng | 97     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.87 | 276 | 91792   | 4.44  | ng | 97     |
| 88) Benzo(b)fluoranthene       | 15.01 | 252 | 320211  | 17.32 | ng | 98     |
| 89) Benzo(k)fluoranthene       | 15.01 | 252 | 320211  | 18.19 | ng | 99     |
| 90) Benzo(a)pyrene             | 15.37 | 252 | 129650  | 7.71  | ng | 98     |
| 92) Benzo(g,h,i)perylene       | 17.30 | 276 | 86875   | 5.88  | ng | 93     |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF040320\  
Data File : BF119757.D  
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Operator : MA/SJ  
Sample : L2100-07  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
239-105060708-0-6

Quant Time: Apr 06 00:31:19 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 01 11:59:45 2020  
Response via : Initial Calibration



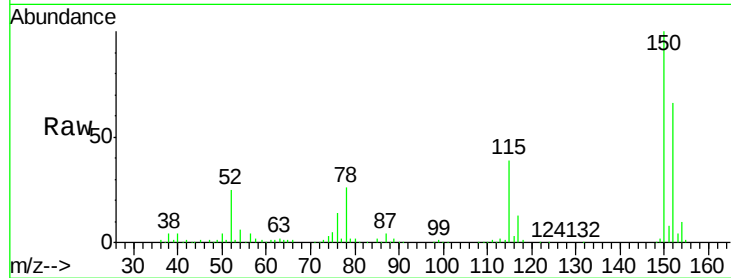


#1

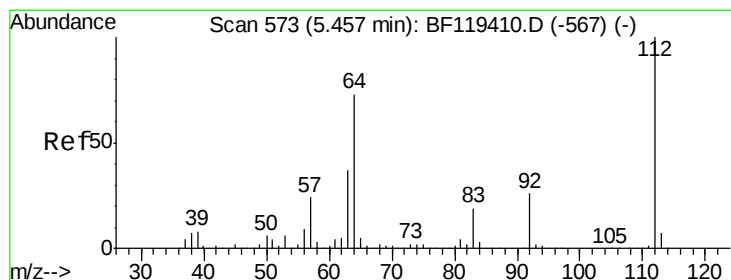
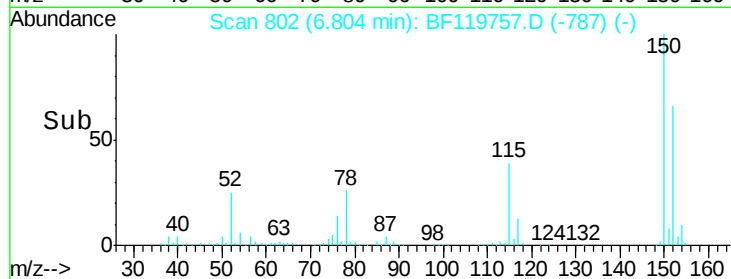
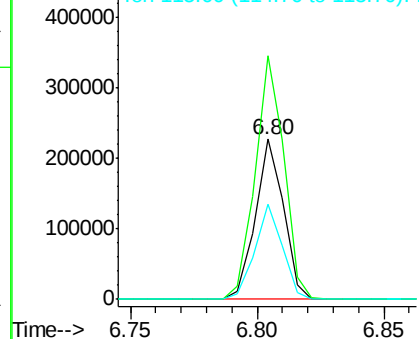
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

Instrument :  
BNA\_F  
ClientSampleId :  
239-105060708-0-6

Tgt Ion:152 Resp: 175852  
Ion Ratio Lower Upper  
152 100  
150 151.9 124.5 186.7  
115 59.4 49.6 74.4



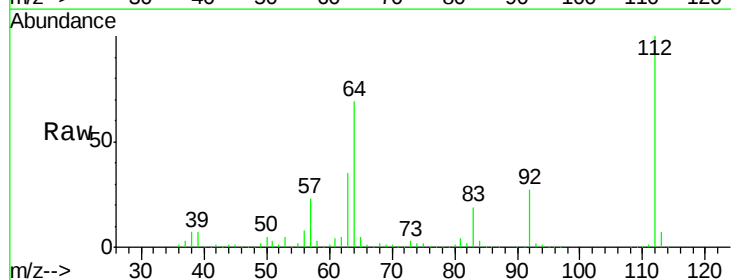
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



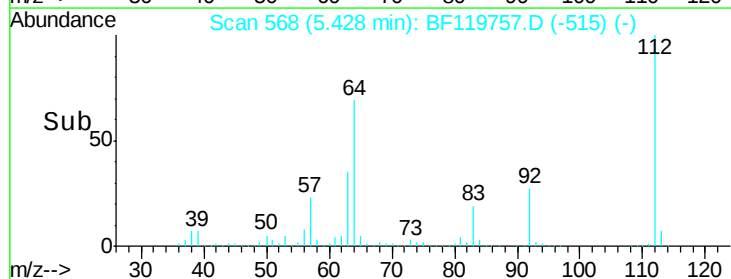
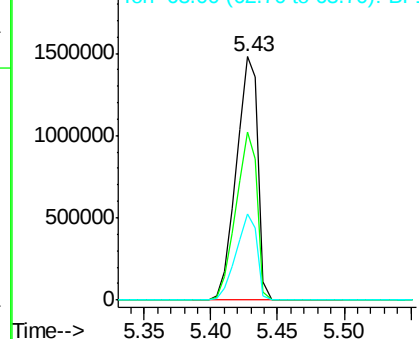
#5

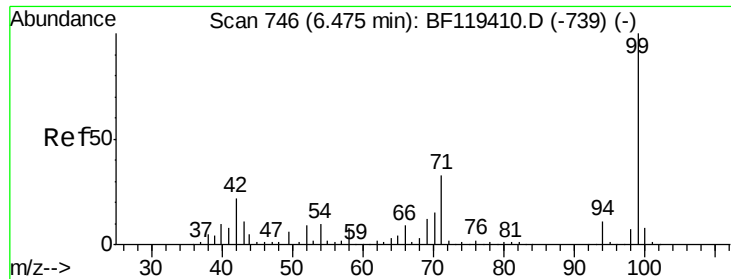
2-Fluorophenol  
Concen: 151.94 ng  
RT: 5.43 min Scan# 568  
Delta R.T. 0.01 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

Tgt Ion:112 Resp: 1678442  
Ion Ratio Lower Upper  
112 100  
64 69.2 56.7 85.1  
63 35.3 29.5 44.3



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: 146.69 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.00 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

239-105060708-0-6

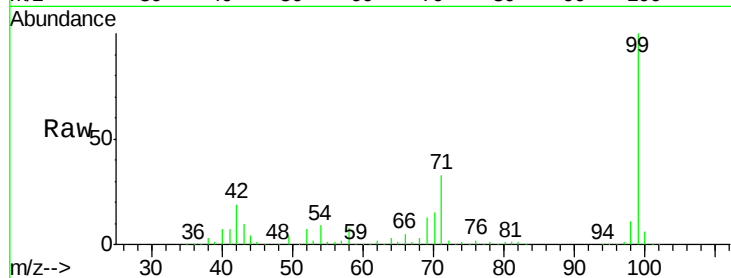
Tgt Ion: 99 Resp: 2069937

Ion Ratio Lower Upper

99 100

42 19.5 16.6 24.8

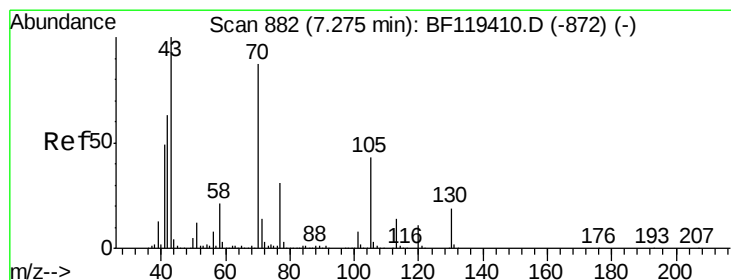
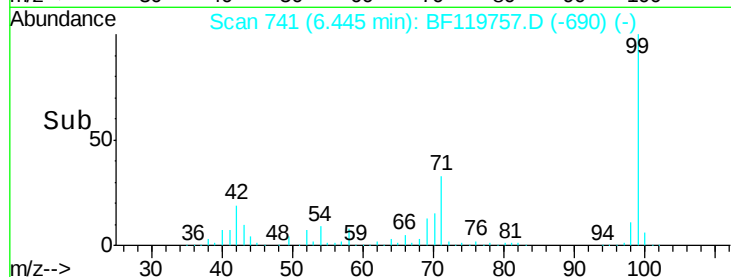
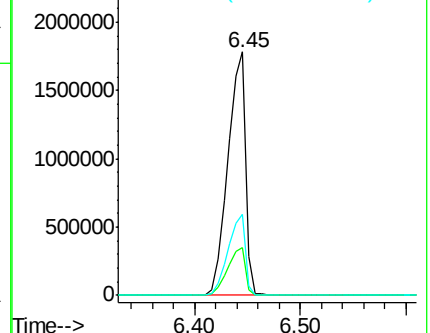
71 33.1 26.4 39.6



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: 19.68 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.14 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

Tgt Ion: 70 Resp: 167413

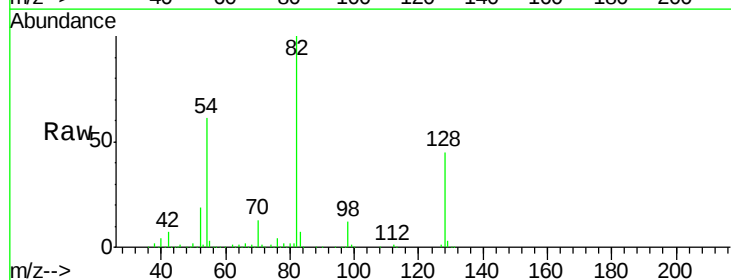
Ion Ratio Lower Upper

70 100

42 54.9 54.5 81.7

101 0.0 7.6 11.4#

130 2.4 17.6 26.4#

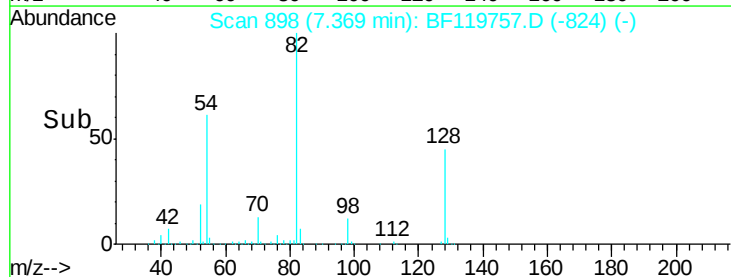
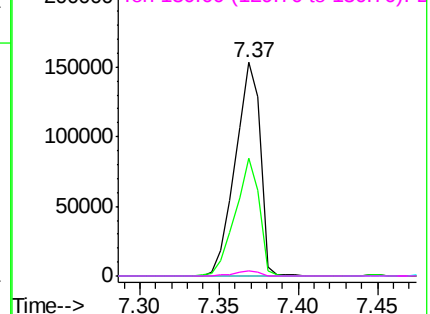


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 20.00 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.02 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

239-105060708-0-6

Tgt Ion:136 Resp: 626901

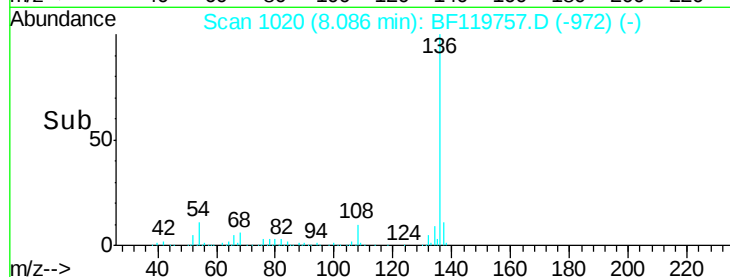
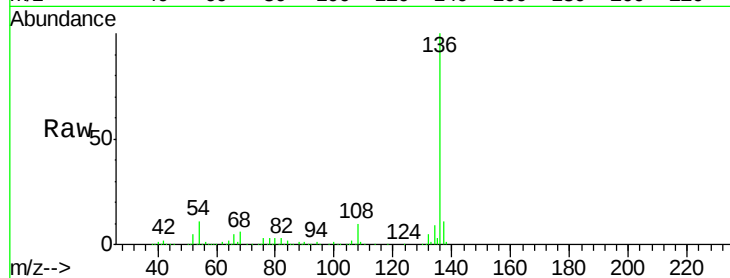
Ion Ratio Lower Upper

136 100

137 11.2 8.7 13.1

54 10.5 9.1 13.7

68 6.2 4.6 6.8

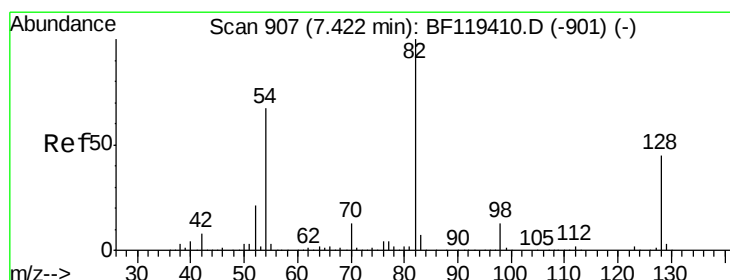
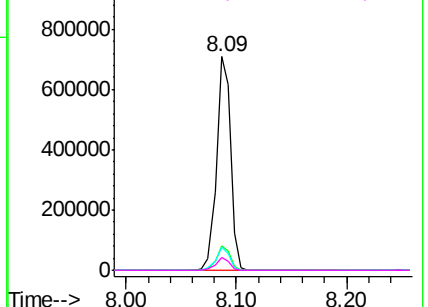


Abundance Ion 136.00 (135.70 to 136.70): E

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: 110.66 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

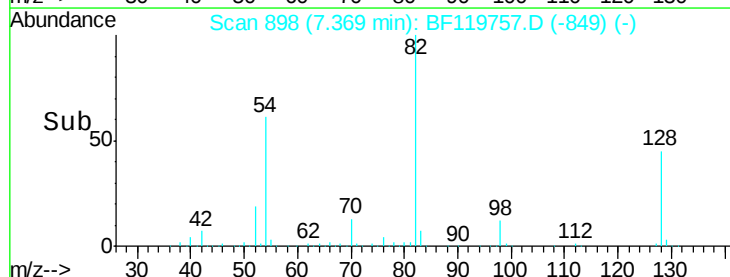
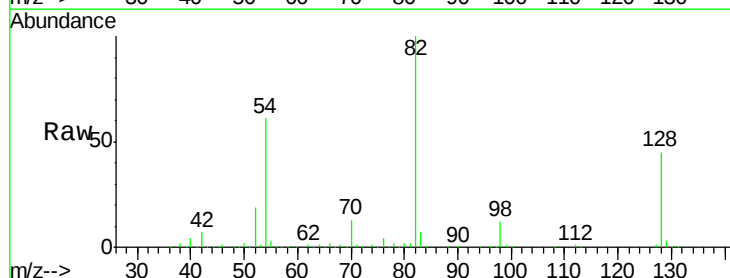
Tgt Ion: 82 Resp: 1276408

Ion Ratio Lower Upper

82 100

128 44.7 36.3 54.5

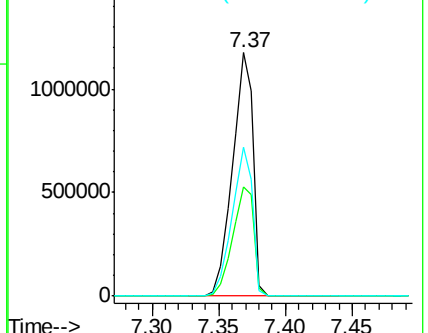
54 61.2 50.6 75.8



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

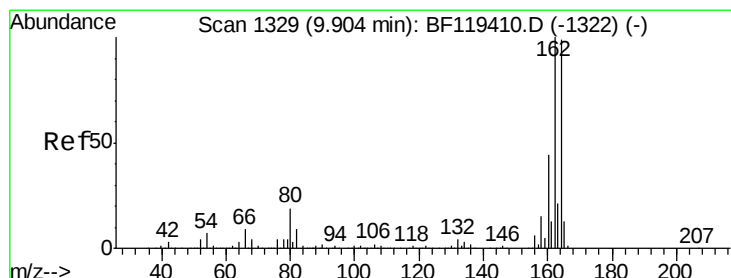
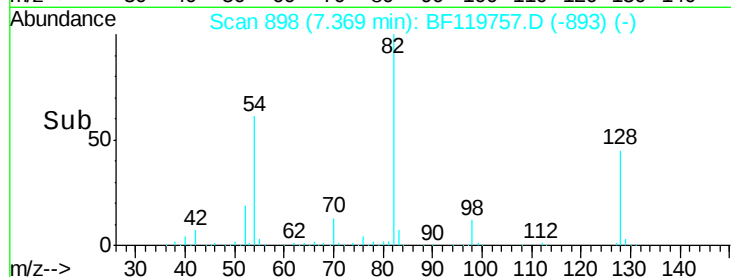
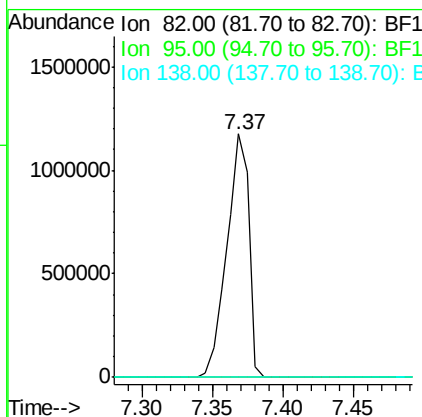
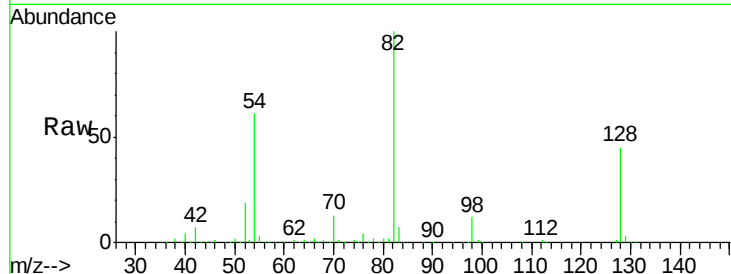




#25  
Isophorone  
Concen: 54.55 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.27 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

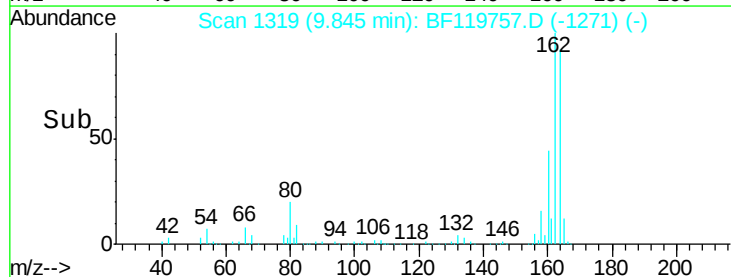
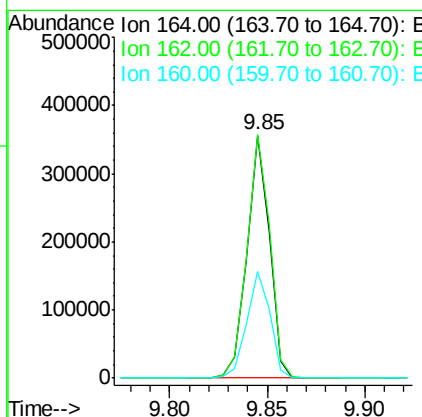
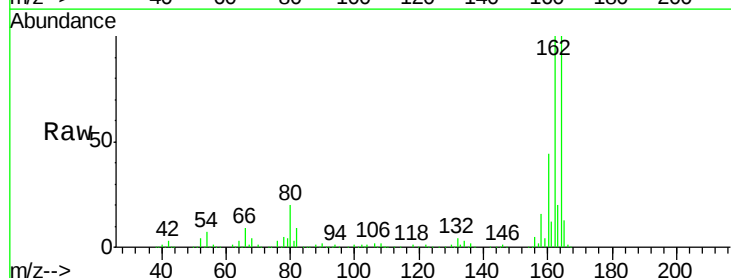
Instrument :  
BNA\_F  
ClientSampleId :  
239-105060708-0-6

Tgt Ion: 82 Resp: 1276398  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.8 8.6#  
138 0.0 14.6 21.8#



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.85 min Scan# 1319  
Delta R.T. -0.02 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

Tgt Ion: 164 Resp: 284283  
Ion Ratio Lower Upper  
164 100  
162 100.2 80.6 121.0  
160 43.9 35.7 53.5

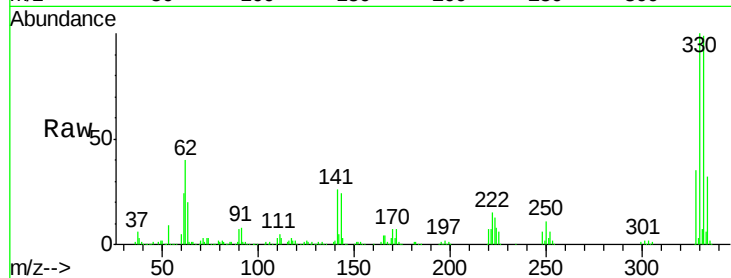




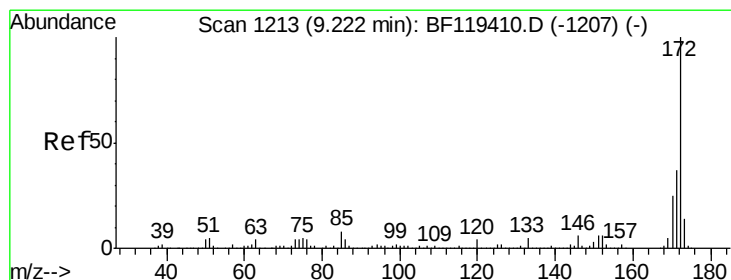
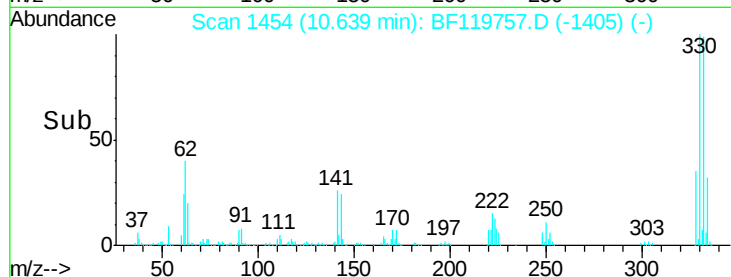
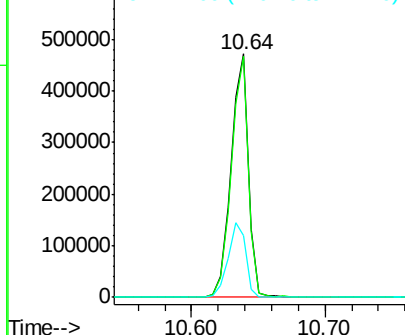
#42  
 2,4,6-Tribromophenol  
 Concen: 148.88 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BF119757.D  
 Acq: 4 Apr 2020 10:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239-105060708-0-6

Tgt Ion:330 Resp: 436643  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 75.7 113.5  
 141 31.5 25.4 38.0

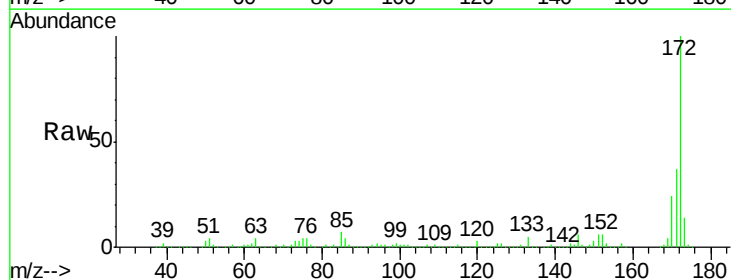


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

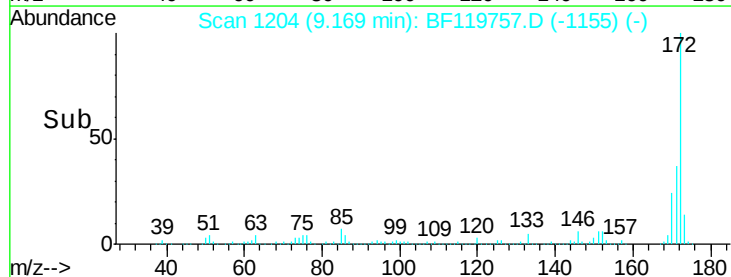
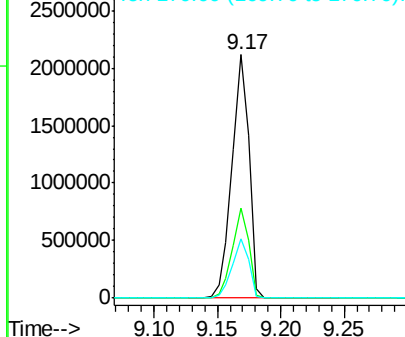


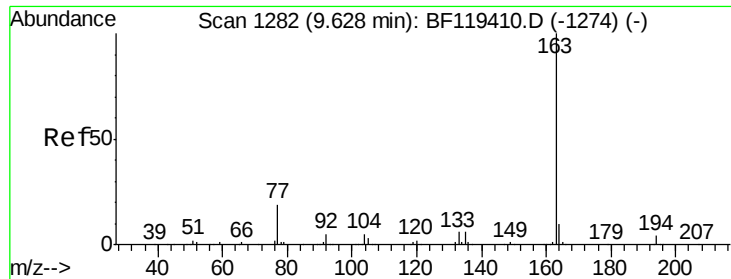
#45  
 2-Fluorobiphenyl  
 Concen: 102.03 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.01 min  
 Lab File: BF119757.D  
 Acq: 4 Apr 2020 10:45

Tgt Ion:172 Resp: 1957813  
 Ion Ratio Lower Upper  
 172 100  
 171 37.1 29.6 44.4  
 170 24.5 20.2 30.2



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

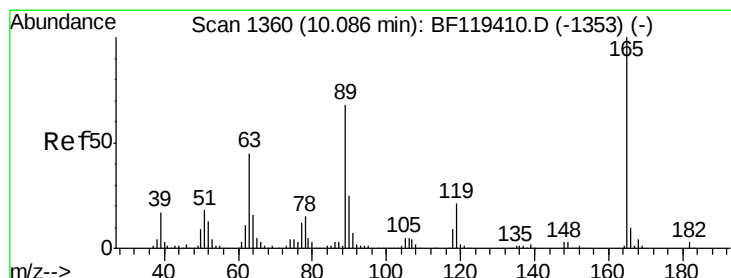
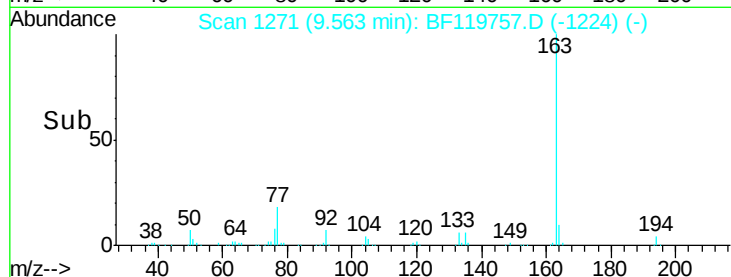
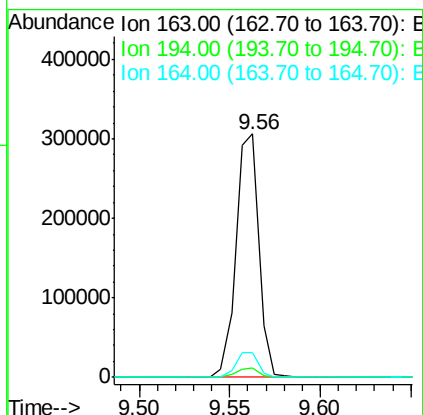
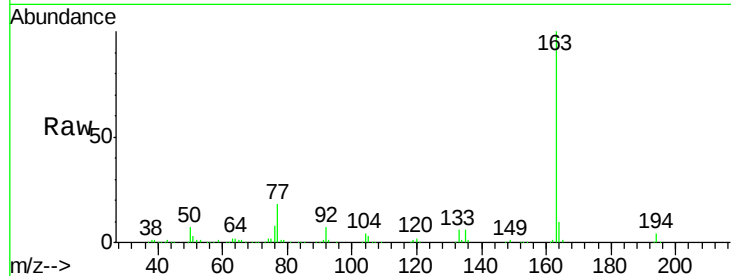




#50  
Dimethylphthalate  
Concen: 13.38 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.02 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

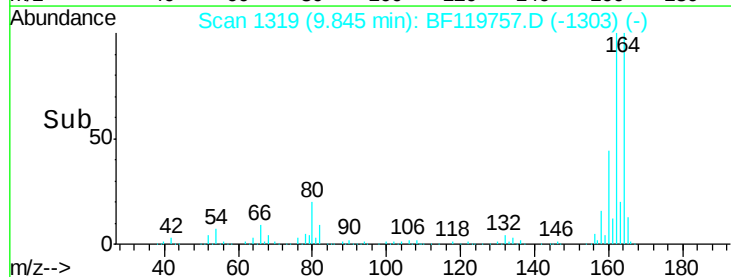
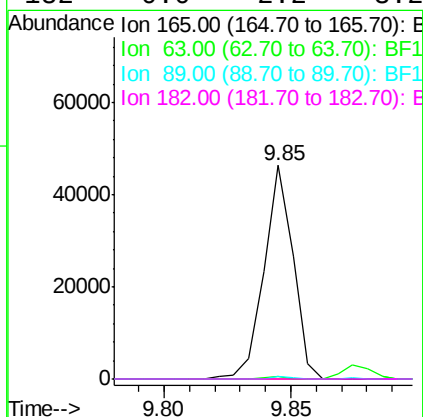
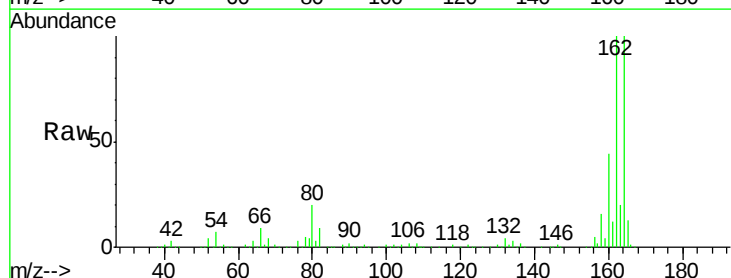
Instrument :  
BNA\_F  
ClientSampleId :  
239-105060708-0-6

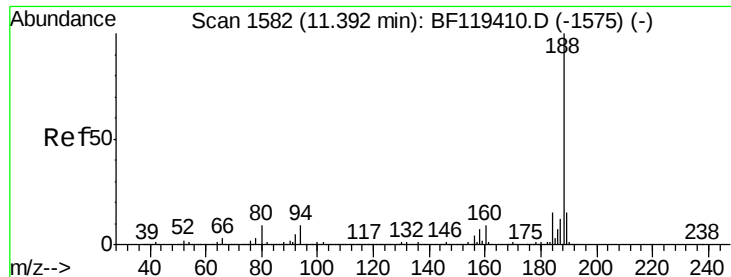
Tgt Ion:163 Resp: 270170  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.1 4.7  
164 10.0 8.2 12.2



#57  
2,4-Dinitrotoluene  
Concen: 6.84 ng  
RT: 9.85 min Scan# 1319  
Delta R.T. -0.21 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

Tgt Ion:165 Resp: 37282  
Ion Ratio Lower Upper  
165 100  
63 1.4 42.6 64.0#  
89 1.0 61.0 91.4#  
182 0.0 2.2 3.2#

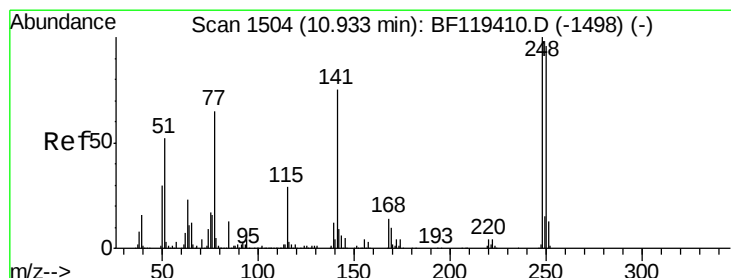
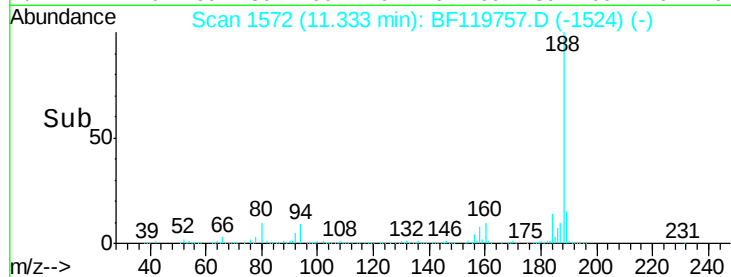
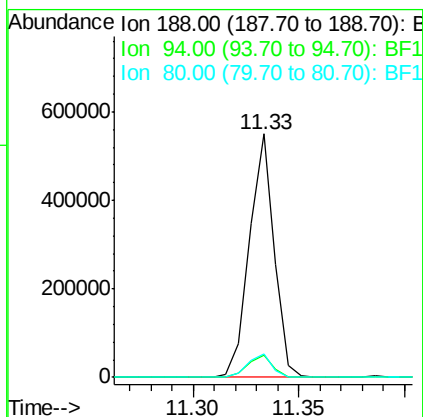
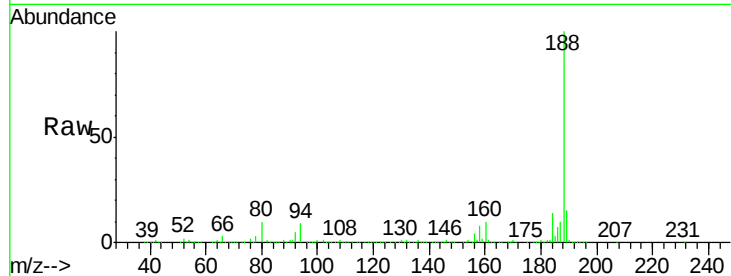




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.02 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

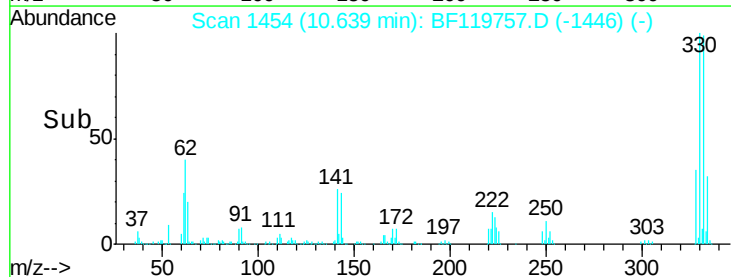
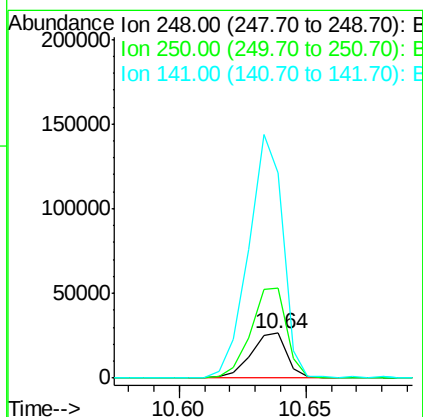
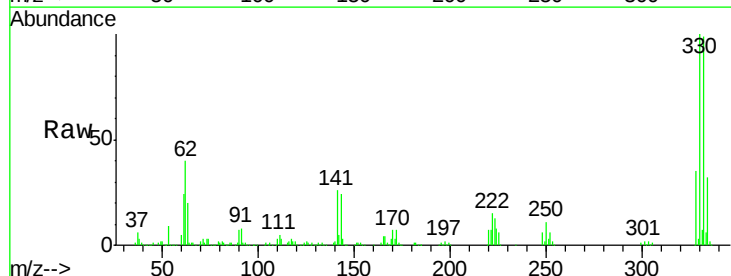
Instrument :  
BNA\_F  
ClientSampleId :  
239-105060708-0-6

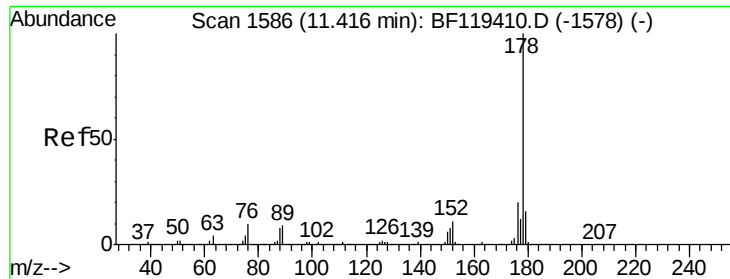
Tgt Ion:188 Resp: 449105  
Ion Ratio Lower Upper  
188 100  
94 9.0 7.5 11.3  
80 9.5 9.0 13.4



#67  
4-Bromophenyl-phenylether  
Concen: 5.18 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.25 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

Tgt Ion:248 Resp: 26518  
Ion Ratio Lower Upper  
248 100  
250 197.9 77.3 115.9#  
141 454.4 58.6 87.8#

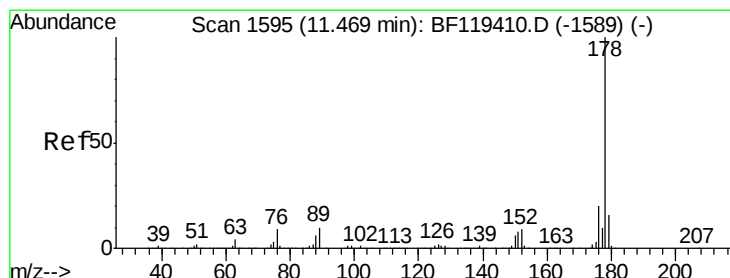
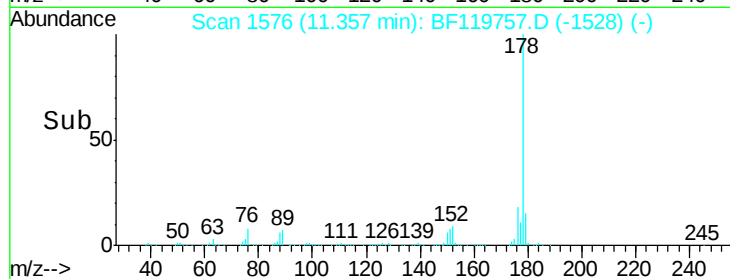
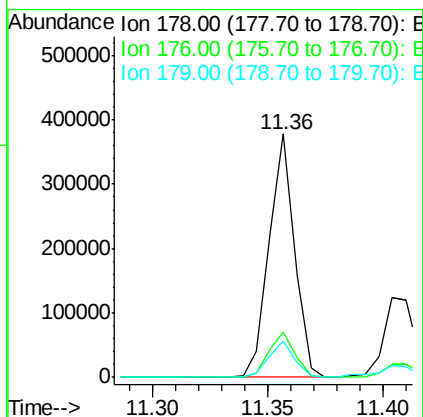
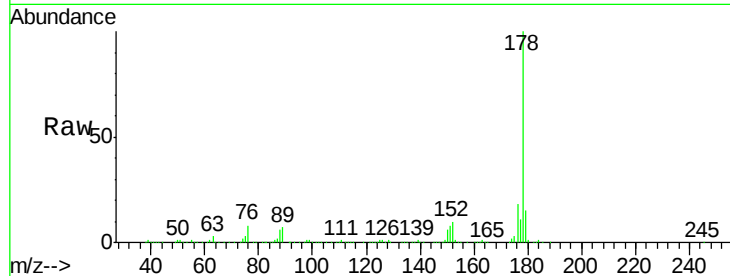




#71  
Phenanthrene  
Concen: 12.51 ng  
RT: 11.36 min Scan# 1576  
Delta R.T. -0.02 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

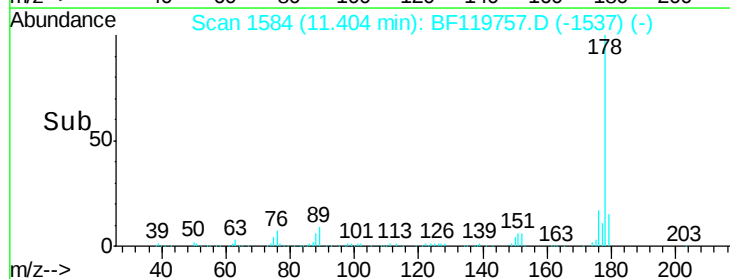
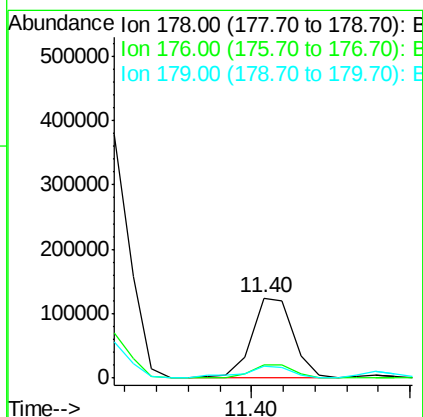
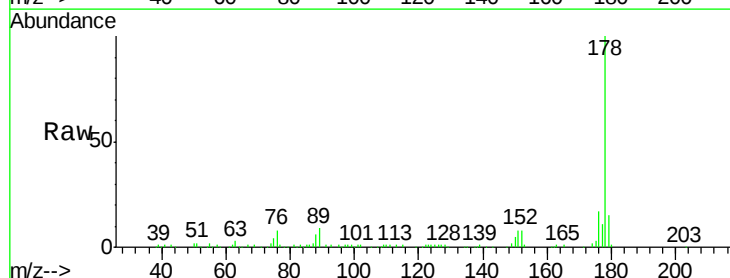
Instrument :  
BNA\_F  
ClientSampleId :  
239-105060708-0-6

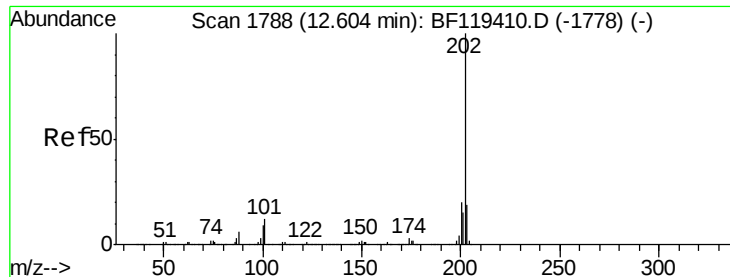
Tgt Ion:178 Resp: 291281  
Ion Ratio Lower Upper  
178 100  
176 18.3 16.2 24.4  
179 14.9 13.2 19.8



#72  
Anthracene  
Concen: 4.72 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. -0.02 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

Tgt Ion:178 Resp: 111612  
Ion Ratio Lower Upper  
178 100  
176 17.3 16.1 24.1  
179 14.6 13.0 19.4





#75

Fluoranthene

Concen: 17.86 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.02 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

239-105060708-0-6

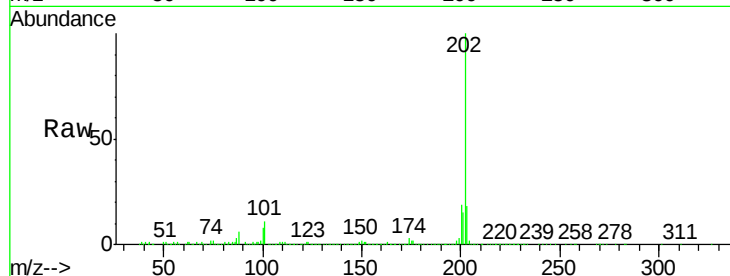
Tgt Ion:202 Resp: 450227

Ion Ratio Lower Upper

202 100

101 11.2 0.0 32.2

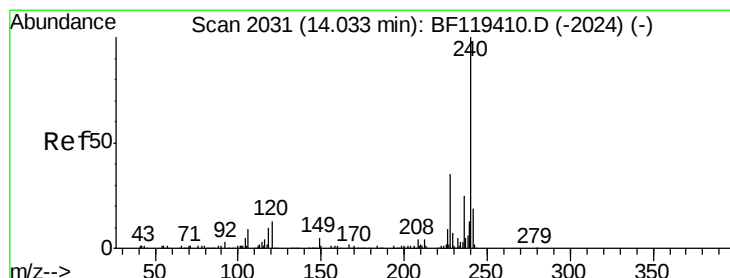
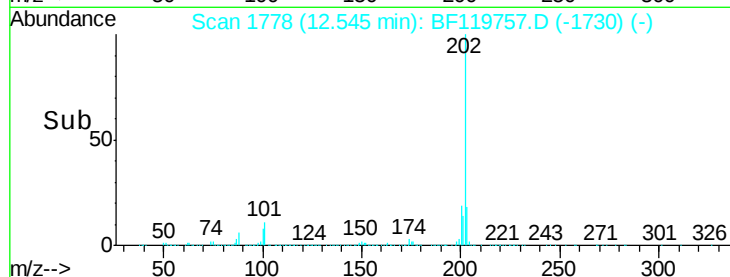
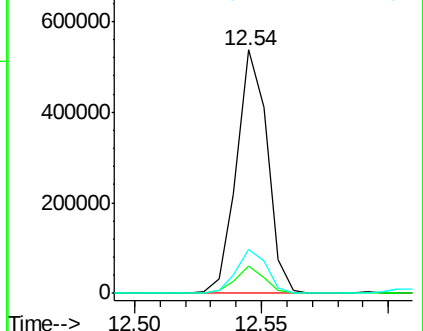
203 18.1 0.0 38.8



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: 20.00 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

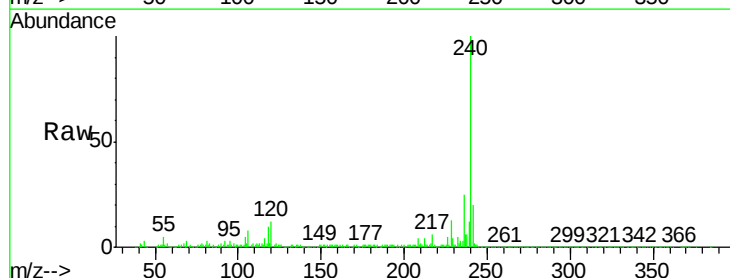
Tgt Ion:240 Resp: 326998

Ion Ratio Lower Upper

240 100

120 12.4 10.6 15.8

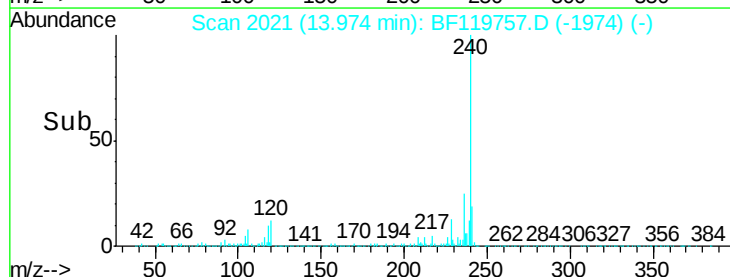
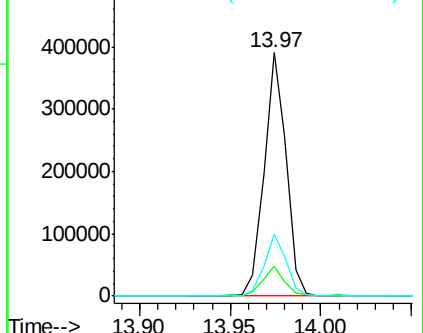
236 25.5 20.2 30.2

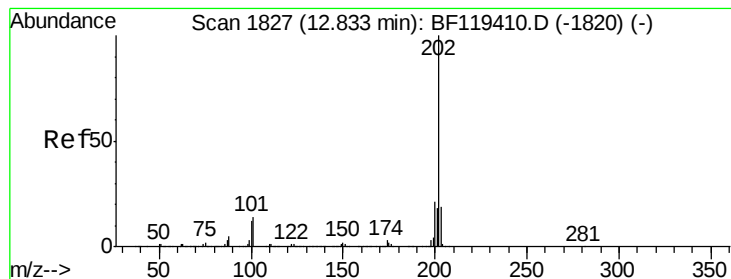


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 15.45 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.02 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

239-105060708-0-6

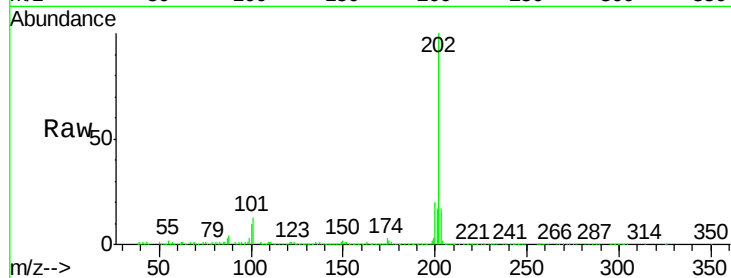
Tgt Ion:202 Resp: 414554

Ion Ratio Lower Upper

202 100

200 19.9 16.8 25.2

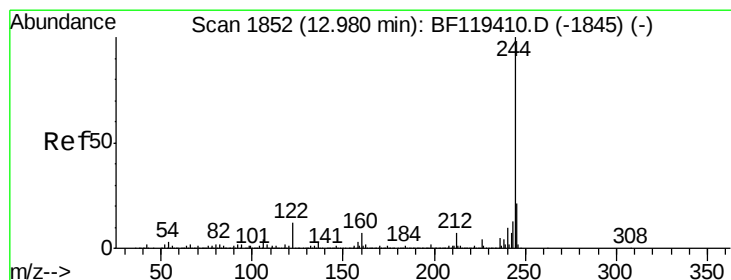
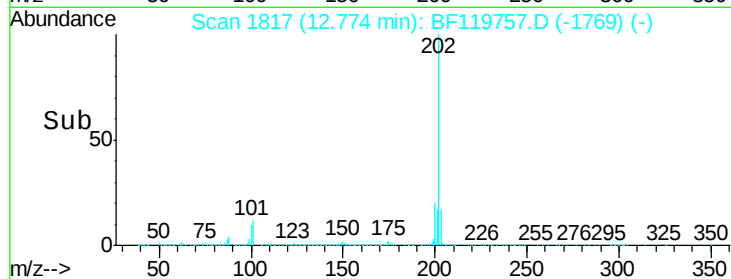
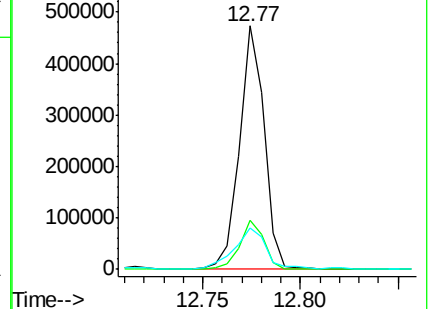
203 17.2 15.1 22.7



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: 94.43 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.02 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

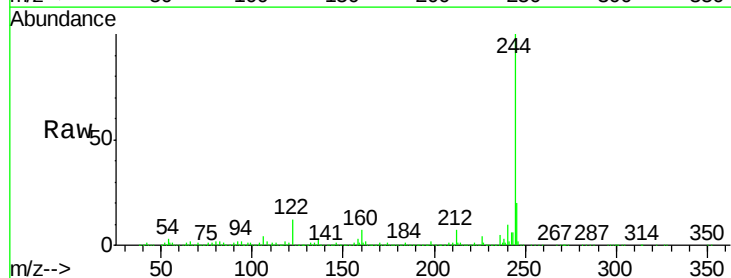
Tgt Ion:244 Resp: 1576055

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

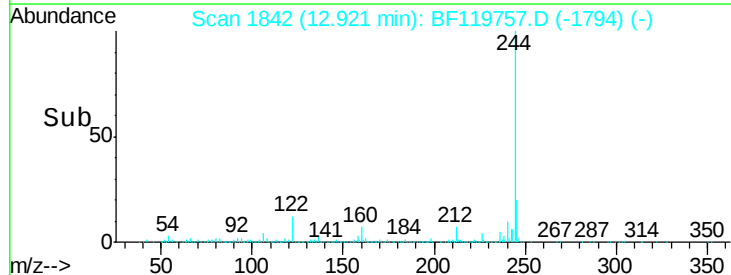
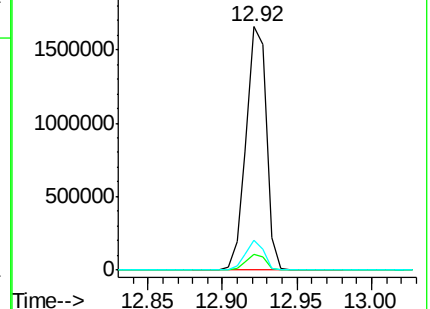
122 12.3 10.3 15.5

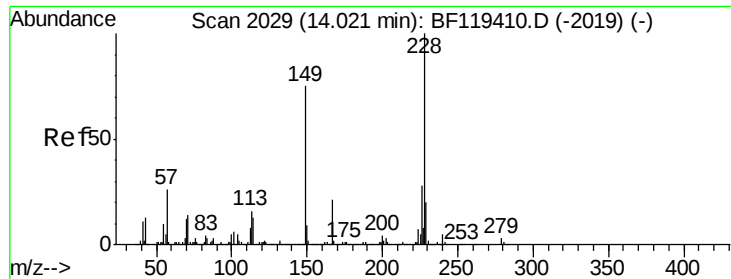


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

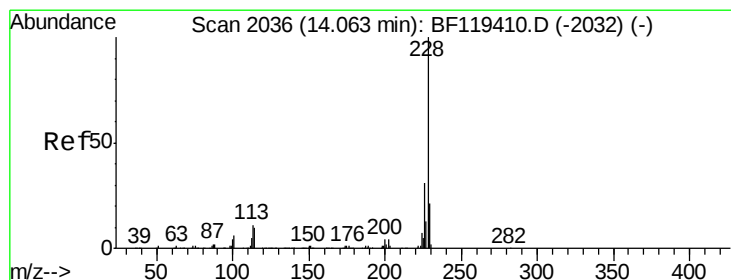
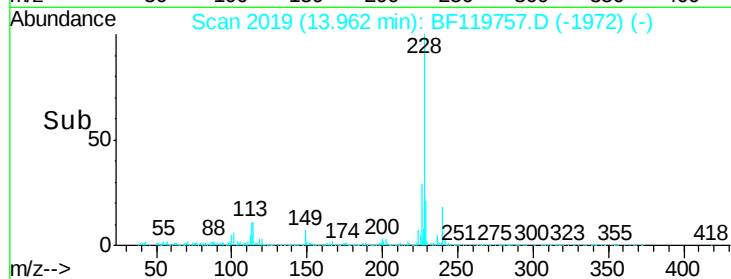
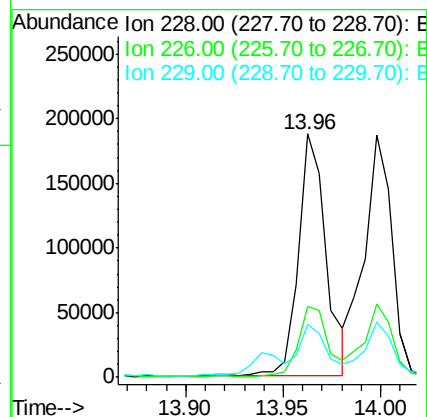
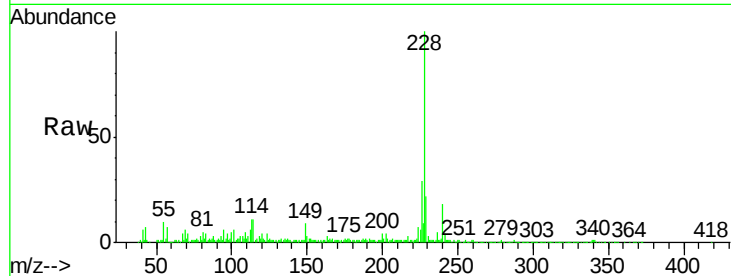




#81  
Benzo(a)anthracene  
Concen: 8.74 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.02 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

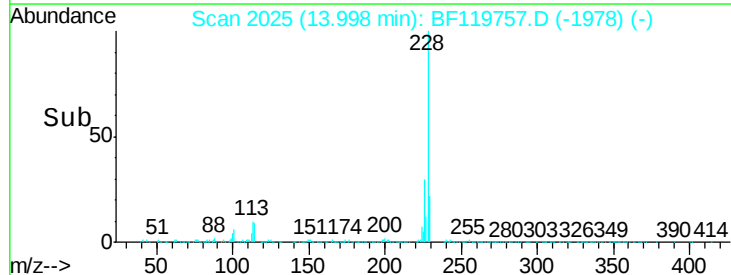
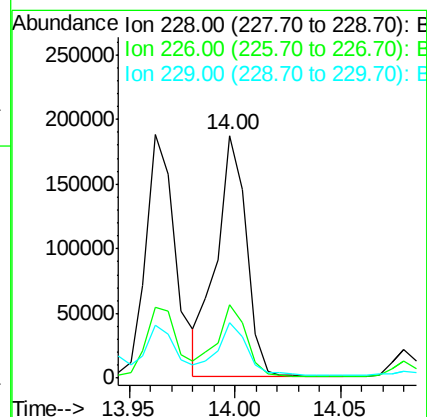
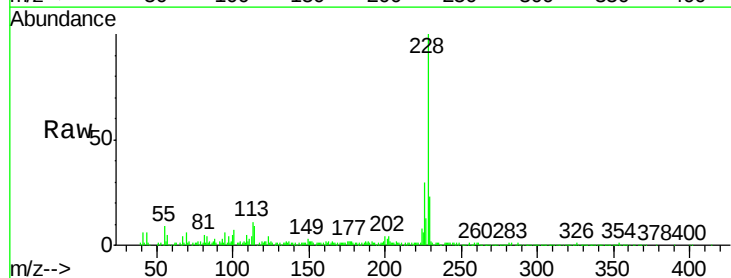
Instrument :  
BNA\_F  
ClientSampleId :  
239-105060708-0-6

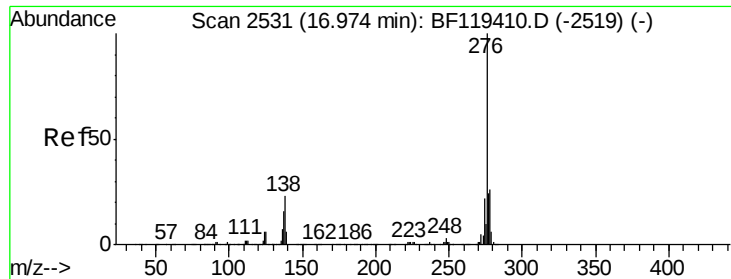
Tgt Ion: 228 Resp: 185756  
Ion Ratio Lower Upper  
228 100  
226 29.2 21.8 32.8  
229 21.5 16.2 24.4



#83  
Chrysene  
Concen: 8.43 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.02 min  
Lab File: BF119757.D  
Acq: 4 Apr 2020 10:45

Tgt Ion: 228 Resp: 184891  
Ion Ratio Lower Upper  
228 100  
226 30.5 25.4 38.0  
229 22.7 16.6 24.8

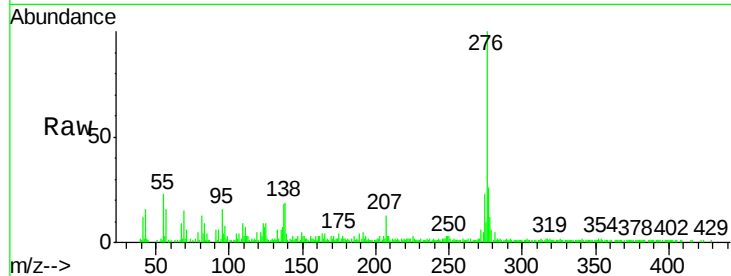




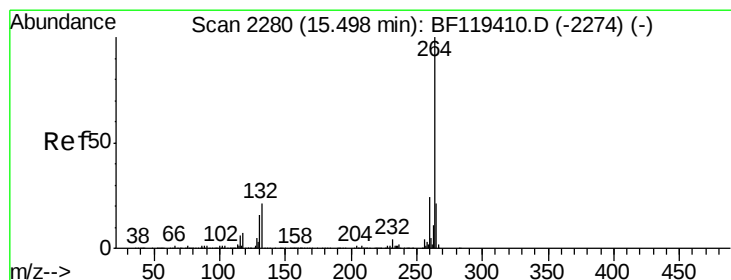
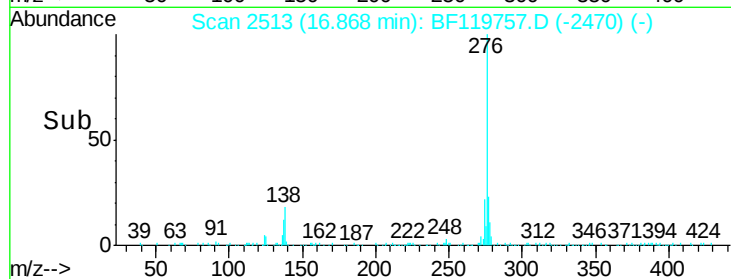
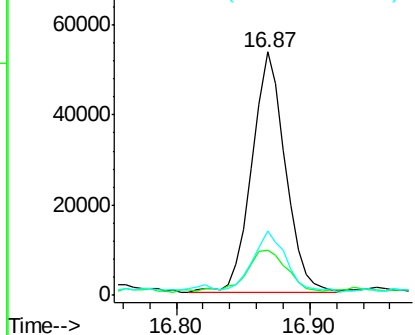
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.44 ng  
 RT: 16.87 min Scan# 2513  
 Delta R.T. -0.05 min  
 Lab File: BF119757.D  
 Acq: 4 Apr 2020 10:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 239-105060708-0-6

Tgt Ion: 276 Resp: 91792  
 Ion Ratio Lower Upper  
 276 100  
 138 22.3 19.6 29.4  
 277 25.3 20.0 30.0

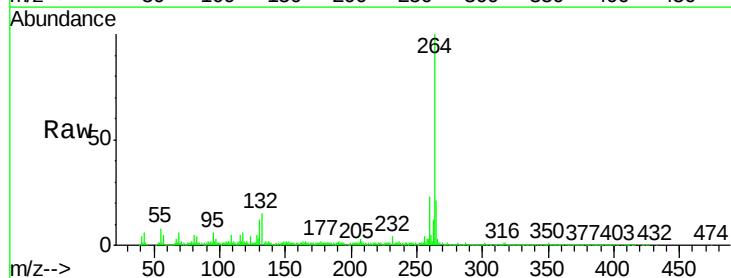


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

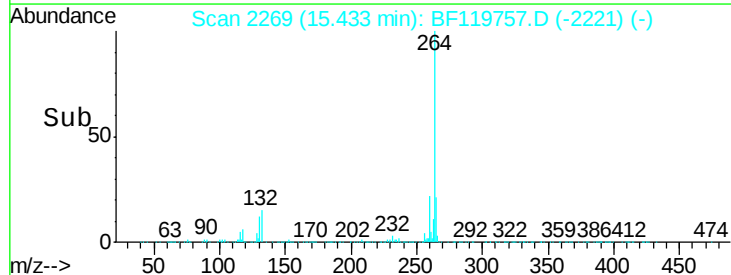
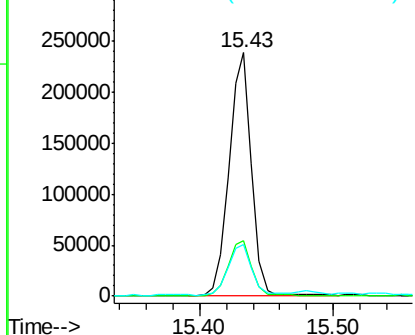


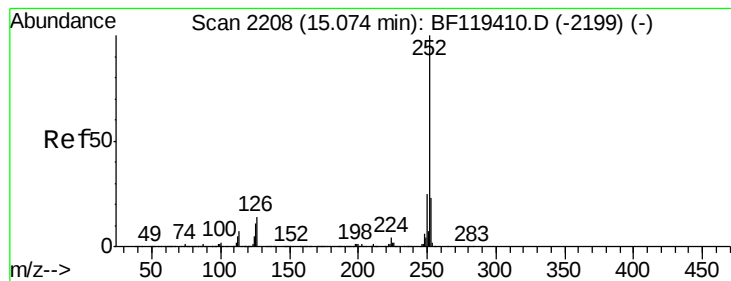
#87  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.43 min Scan# 2269  
 Delta R.T. -0.02 min  
 Lab File: BF119757.D  
 Acq: 4 Apr 2020 10:45

Tgt Ion: 264 Resp: 276823  
 Ion Ratio Lower Upper  
 264 100  
 260 22.5 18.7 28.1  
 265 21.4 17.7 26.5



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: 17.32 ng

RT: 15.01 min Scan# 2197

Delta R.T. -0.02 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

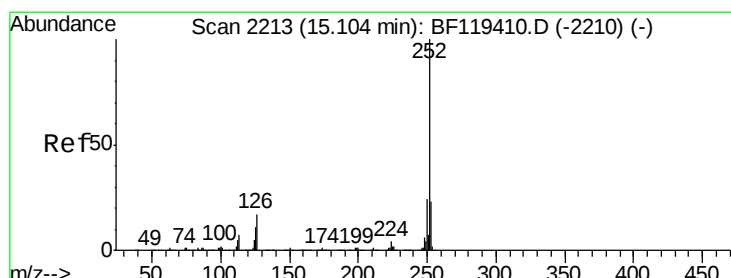
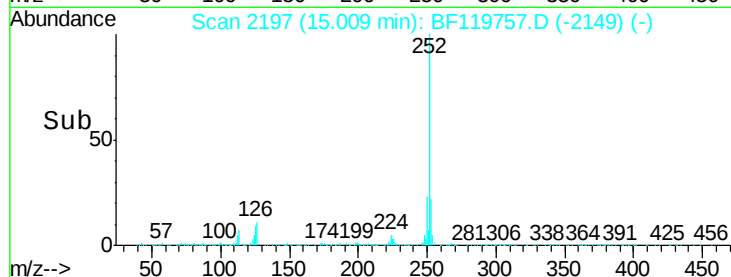
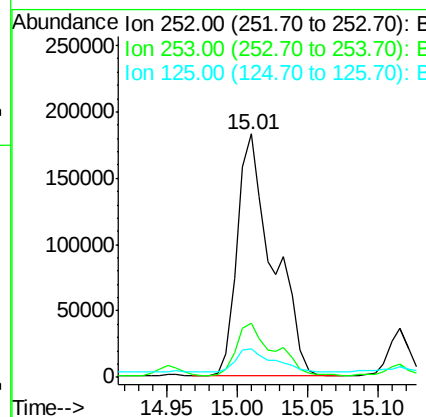
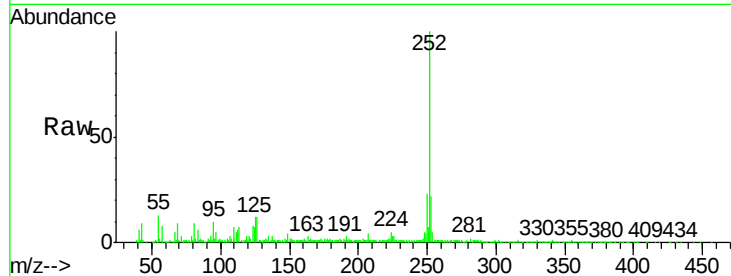
Instrument :

BNA\_F

ClientSampleId :

239-105060708-0-6

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 320211 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 22.3  | 17.4  | 26.0   |
| 125      | 11.7  | 7.9   | 11.9   |



#89

Benzo(k)fluoranthene

Concen: 18.19 ng

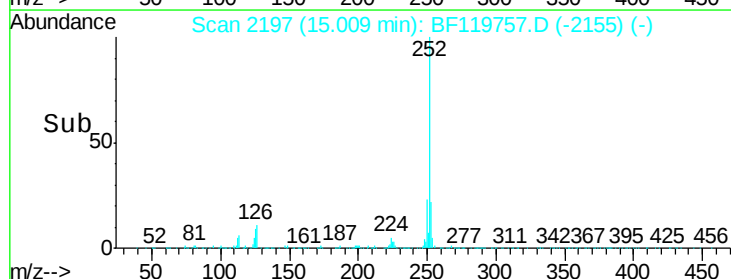
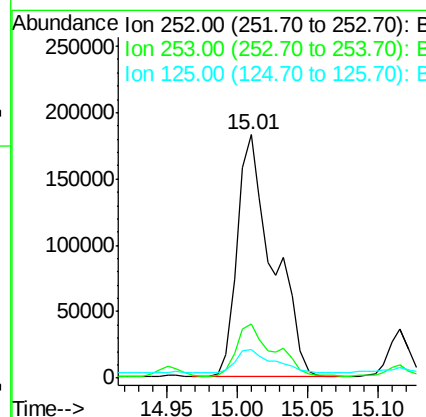
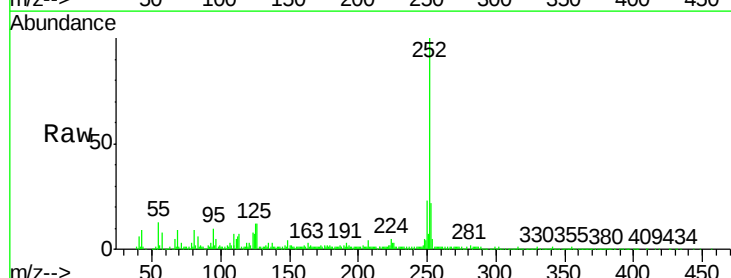
RT: 15.01 min Scan# 2197

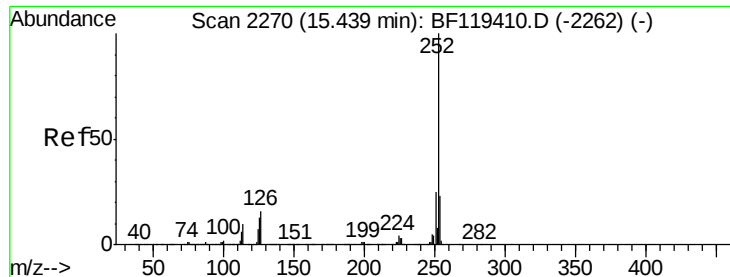
Delta R.T. -0.05 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 320211 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 22.3  | 17.8  | 26.6   |
| 125      | 11.7  | 8.4   | 12.6   |





#90

Benzo(a)pyrene

Concen: 7.71 ng

RT: 15.37 min Scan# 2258

Delta R.T. -0.03 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

Instrument :

BNA\_F

ClientSampleId :

239-105060708-0-6

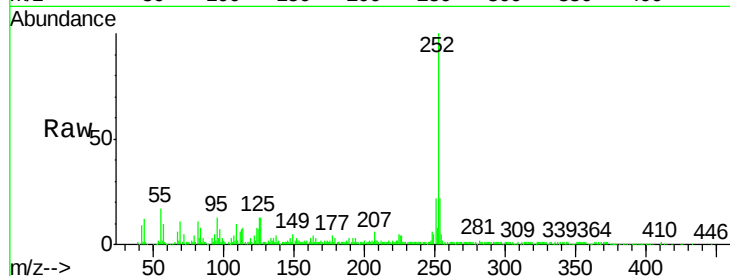
Tgt Ion:252 Resp: 129650

Ion Ratio Lower Upper

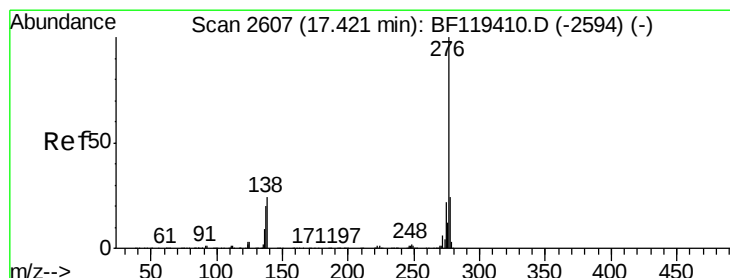
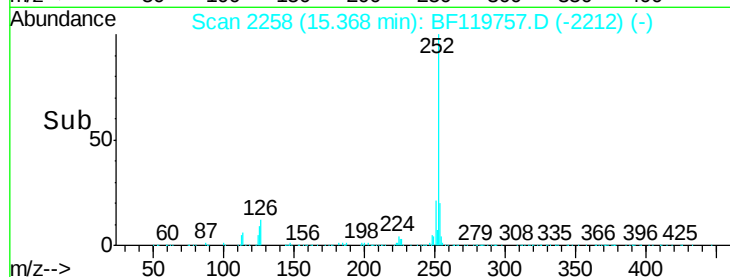
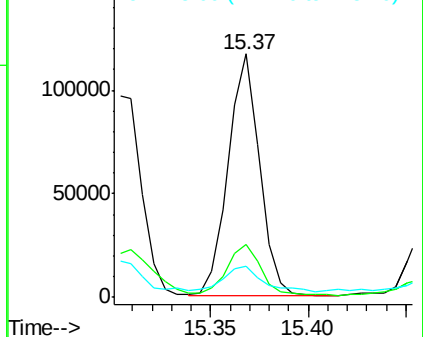
252 100

253 21.6 18.2 27.2

125 12.7 9.4 14.2



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



#92

Benzo(g,h,i)perylene

Concen: 5.88 ng

RT: 17.30 min Scan# 2587

Delta R.T. -0.05 min

Lab File: BF119757.D

Acq: 4 Apr 2020 10:45

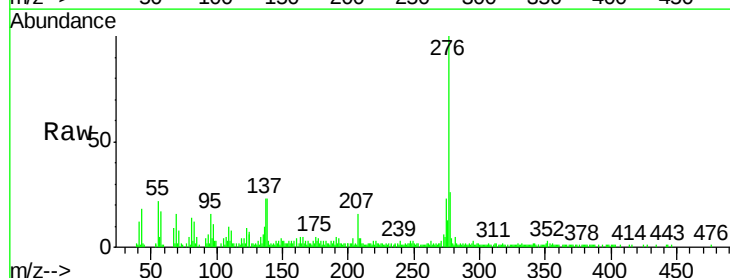
Tgt Ion:276 Resp: 86875

Ion Ratio Lower Upper

276 100

277 25.9 18.4 27.6

138 22.8 15.4 23.0



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

