

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\  
 Data File : BF120658.D  
 Acq On : 18 Jun 2020 22:50  
 Operator : JU/CG  
 Sample : L2817-06RE  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-04-061720

Quant Time: Jun 19 01:14:17 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 11 11:28:22 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 161895   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 580304   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.84  | 164  | 274372   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.33 | 188  | 504025   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.97 | 240  | 395724   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.41 | 264  | 315406   | 20.00 | ng    | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.42  | 112  | 929763   | 98.46 | ng    | 0.00     |
| 7) Phenol-d6                | 6.45  | 99   | 1125279  | 95.68 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 677951   | 65.30 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 296087   | 92.82 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 1316820  | 73.43 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.92 | 244  | 1386710  | 77.40 | ng    | 0.00     |

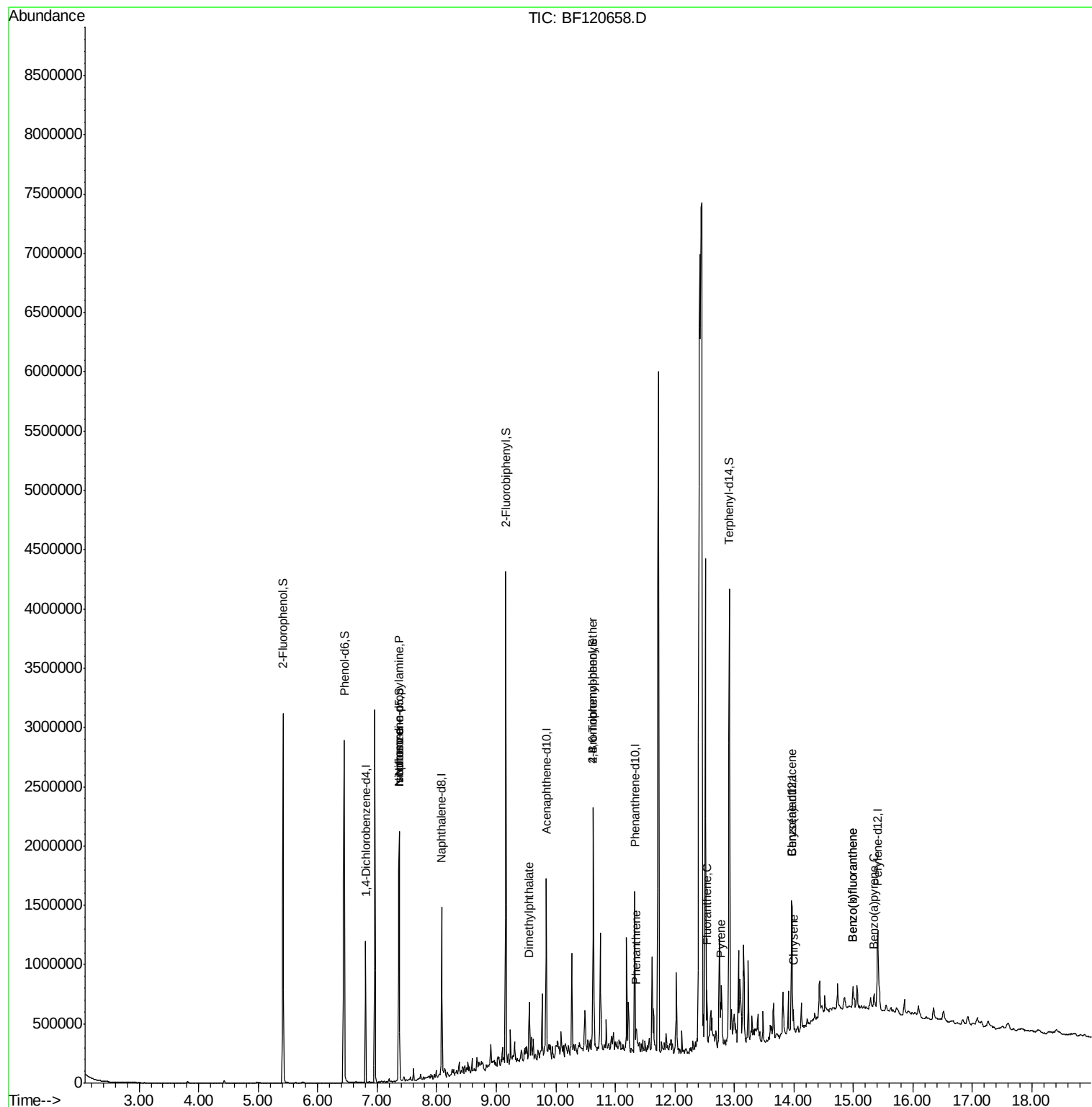
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 94094    | 13.792 | ng    | # 75   |
| 25) Isophorone                 | 7.37  | 82   | 672559   | 33.257 | ng    | # 62   |
| 50) Dimethylphthalate          | 9.55  | 163  | 126113   | 6.382  | ng    | 99     |
| 67) 4-Bromophenyl-phenylether  | 10.63 | 248  | 17818    | 3.115  | ng    | # 1    |
| 71) Phenanthrene               | 11.35 | 178  | 67665    | 2.701  | ng    | 99     |
| 75) Fluoranthene               | 12.54 | 202  | 166261   | 5.804  | ng    | 99     |
| 78) Pyrene                     | 12.77 | 202  | 162780   | 5.807  | ng    | 98     |
| 81) Benzo(a)anthracene         | 13.96 | 228  | 73007    | 3.071  | ng    | 93     |
| 83) Chrysene                   | 13.99 | 228  | 75872    | 3.111  | ng    | 95     |
| 88) Benzo(b)fluoranthene       | 14.99 | 252  | 107863   | 5.741  | ng    | # 90   |
| 89) Benzo(k)fluoranthene       | 14.99 | 252  | 107863   | 6.488  | ng    | # 90   |
| 90) Benzo(a)pyrene             | 15.34 | 252  | 54172    | 3.222  | ng    | # 87   |

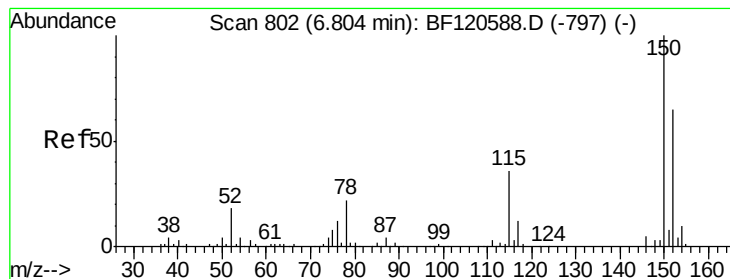
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Time: Jun 19 01:14:17 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 11 11:28:22 2020  
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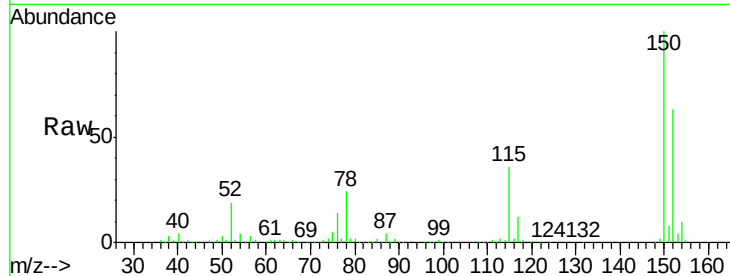


#1

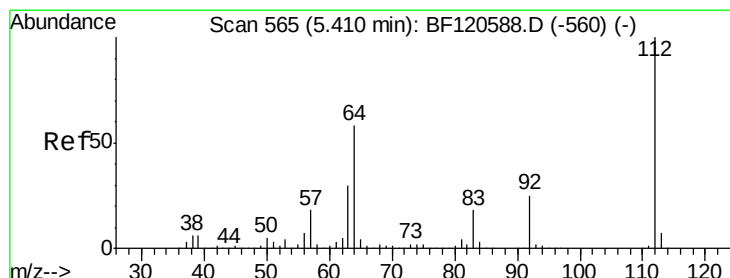
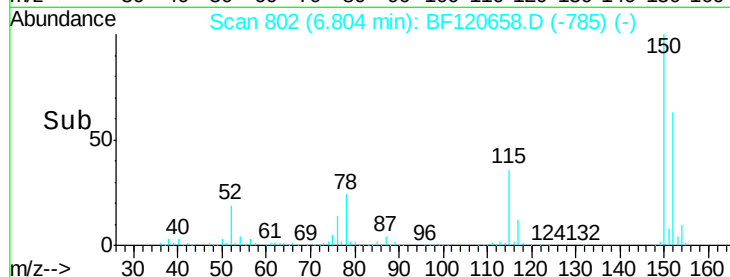
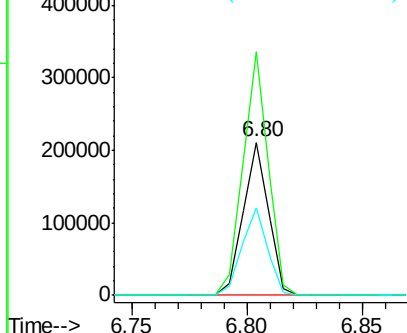
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-061720

Tot Ion:152 Resp: 161895  
Ion Ratio Lower Upper  
152 100  
150 158.9 123.2 184.8  
115 57.3 43.9 65.9



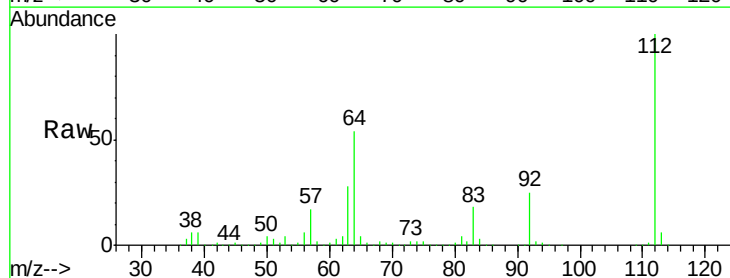
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



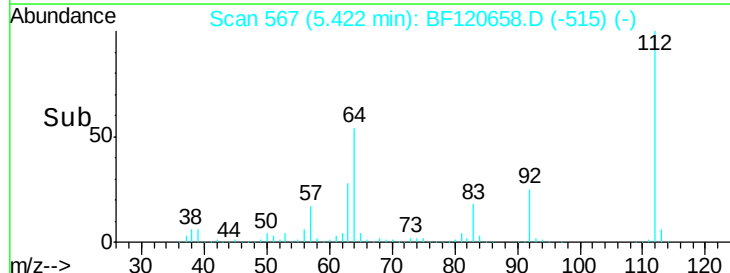
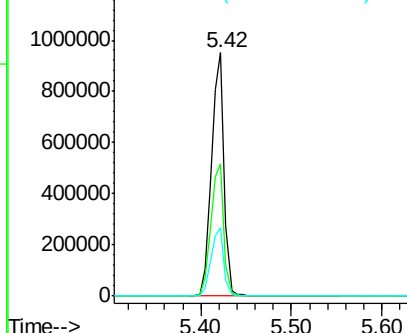
#5

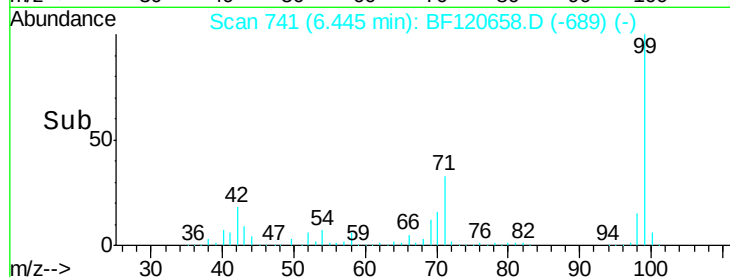
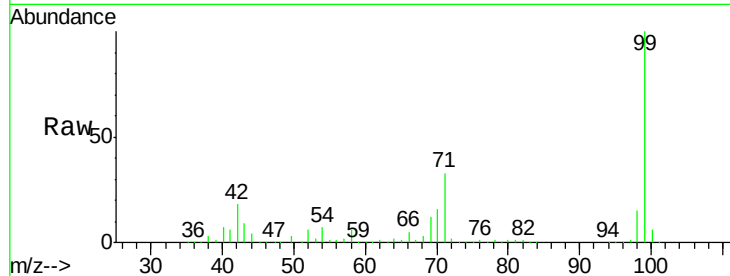
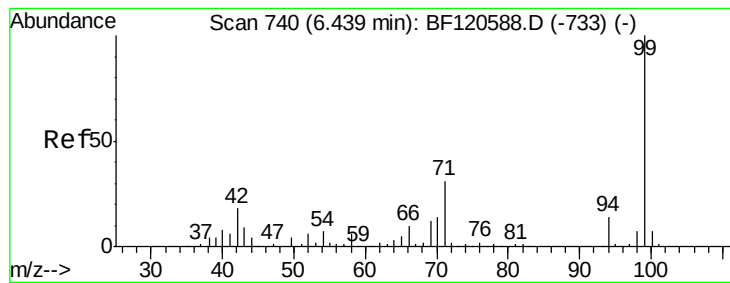
2-Fluorophenol  
Concen: 98.461 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.01 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Tgt Ion:112 Resp: 929763  
Ion Ratio Lower Upper  
112 100  
64 54.4 46.1 69.1  
63 27.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 95.677 ng

RT: 6.45 min Scan# 741

Delta R.T. 0.01 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

Instrument :

BNA\_F

ClientSampleId :

SU-04-061720

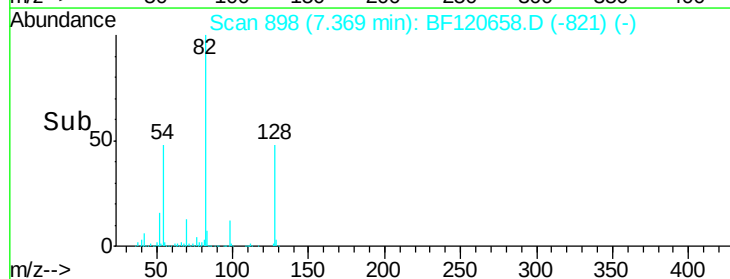
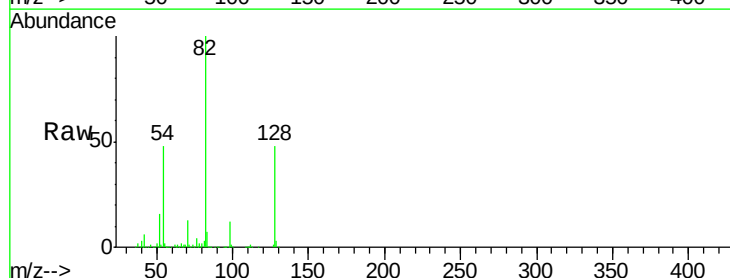
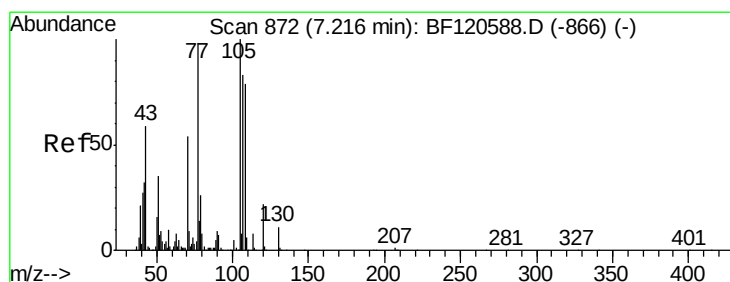
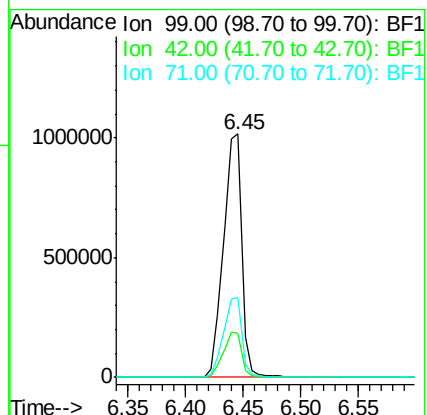
Tot Ion: 99 Resp: 1125279

Ion Ratio Lower Upper

99 100

42 17.9 14.0 21.0

71 32.7 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 13.792 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.15 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

Tgt Ion: 70 Resp: 94094

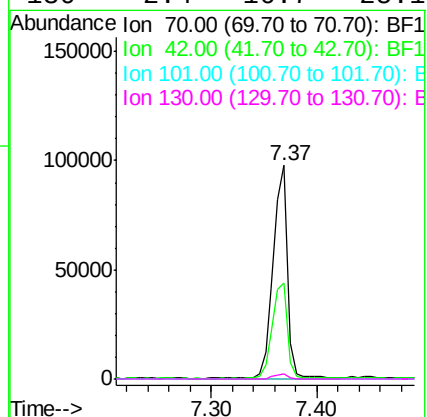
Ion Ratio Lower Upper

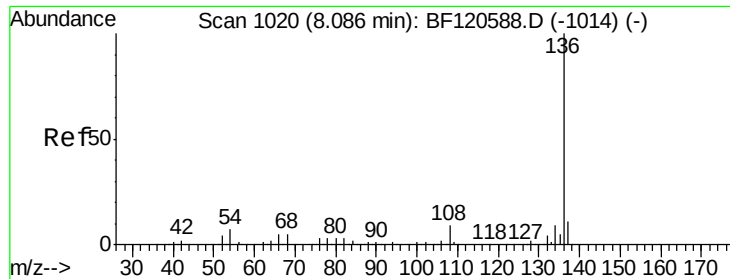
70 100

42 45.1 47.7 71.5#

101 0.0 7.6 11.4#

130 2.4 16.7 25.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. 0.00 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

Instrument :

BNA\_F

ClientSampleId :

SU-04-061720

Tot Ion:136 Resp: 580304

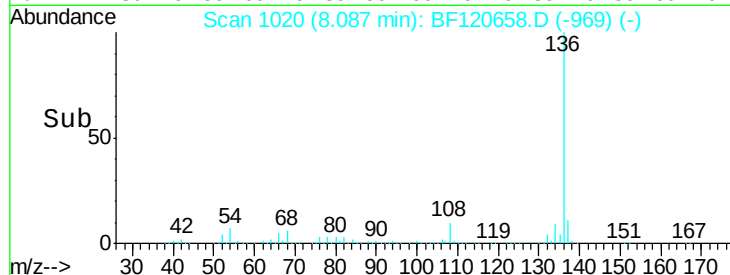
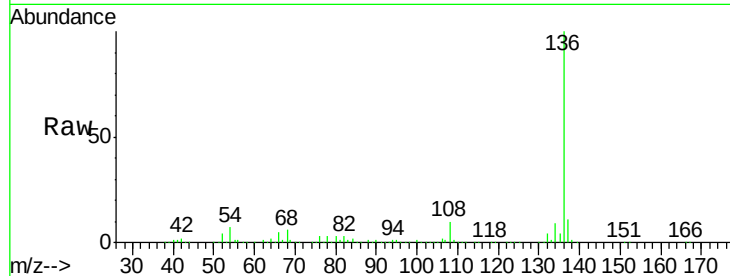
Ion Ratio Lower Upper

136 100

137 11.3 8.6 13.0

54 7.5 5.8 8.6

68 6.1 4.4 6.6

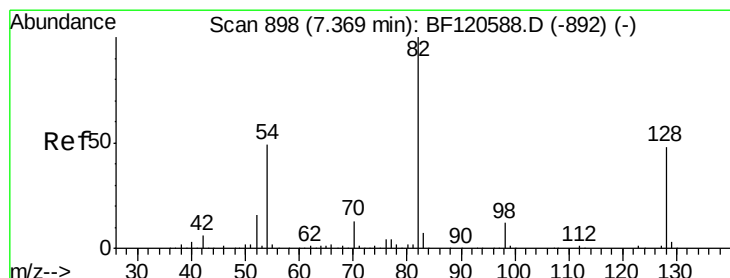
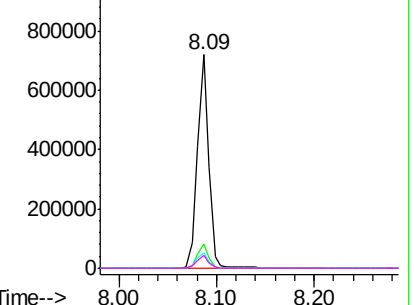


Abundance Ion 136.00 (135.70 to 136.70): E

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: 65.302 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.00 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

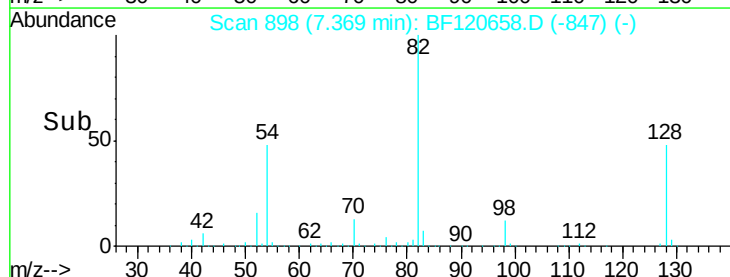
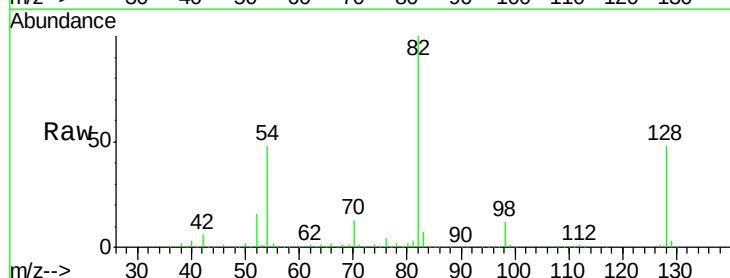
Tgt Ion: 82 Resp: 677951

Ion Ratio Lower Upper

82 100

128 48.0 38.0 57.0

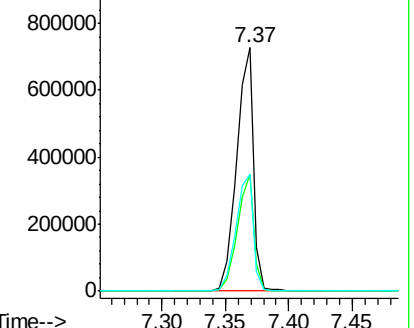
54 48.2 38.8 58.2

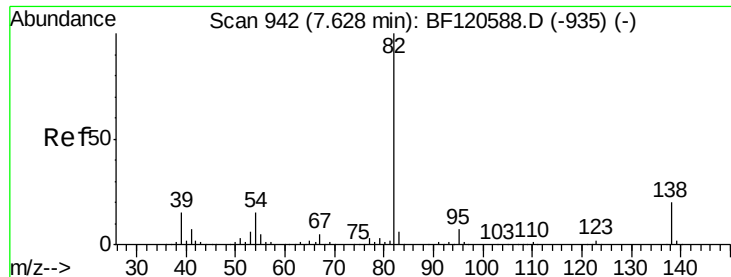


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

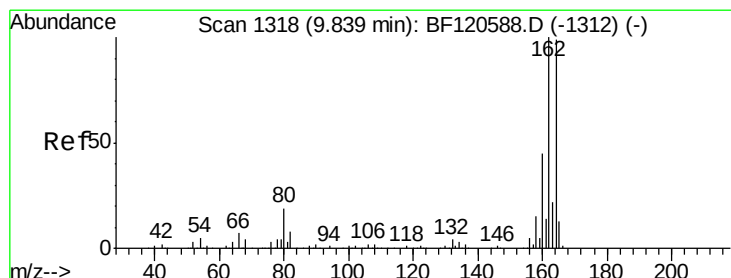
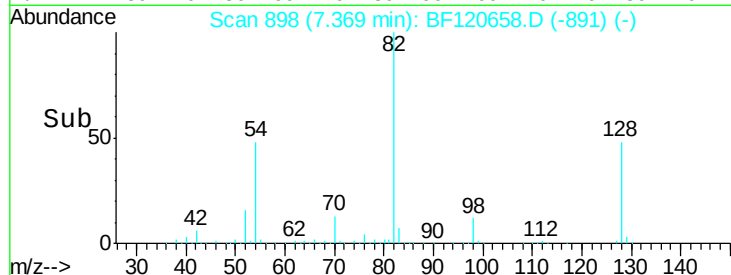
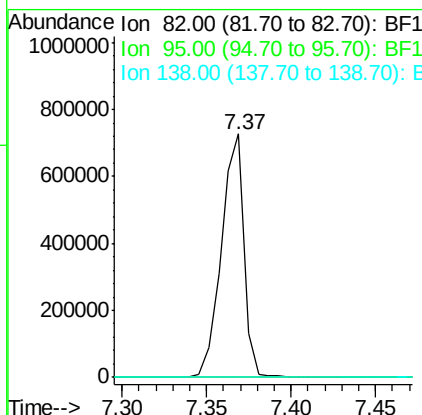
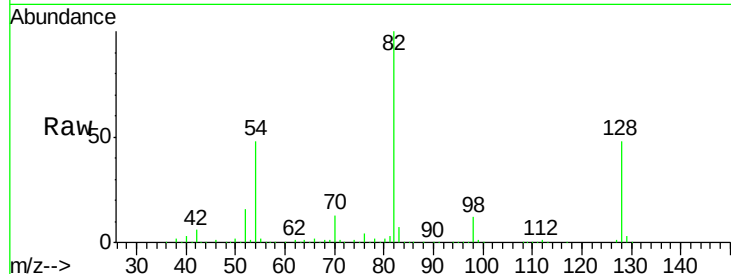




#25  
Isophorone  
Concen: 33.257 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.26 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

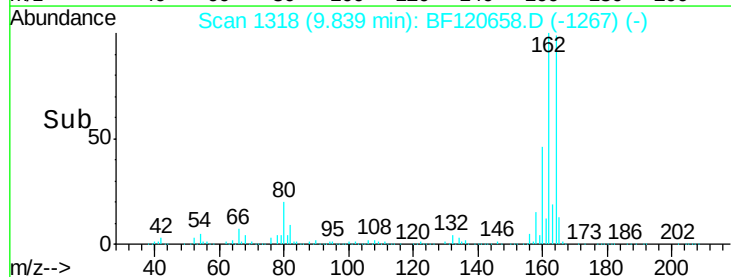
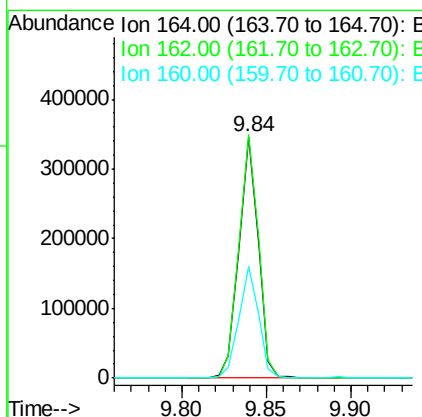
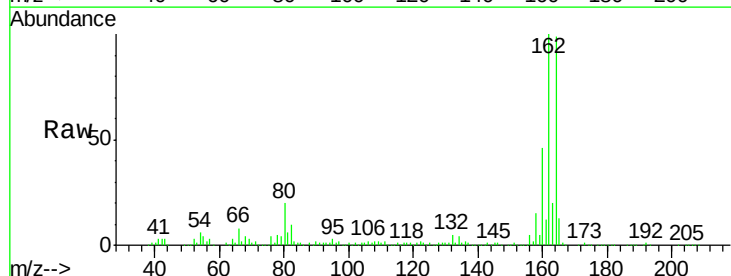
Instrument :  
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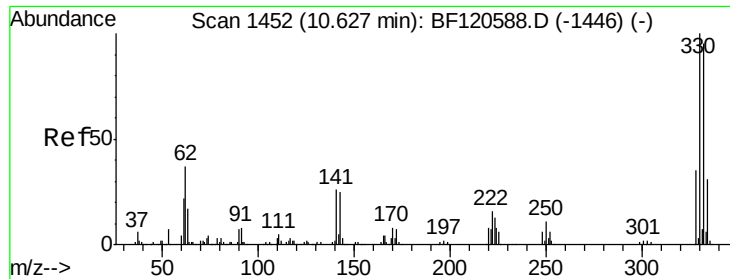
Tot Ion: 82 Resp: 672559  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.7 8.5#  
138 0.0 16.2 24.4#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. 0.00 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Tgt Ion:164 Resp: 274372  
Ion Ratio Lower Upper  
164 100  
162 100.9 80.6 120.8  
160 46.3 36.2 54.2





#42

2,4,6-Tribromophenol

Concen: 92.819 ng

RT: 10.63 min Scan# 1453

Delta R.T. 0.01 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

Instrument :

BNA\_F

ClientSampleId :

SU-04-061720

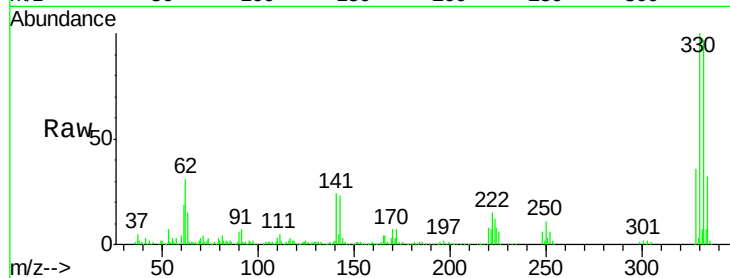
Tot Ion:330 Resp: 296087

Ion Ratio Lower Upper

330 100

332 96.5 76.8 115.2

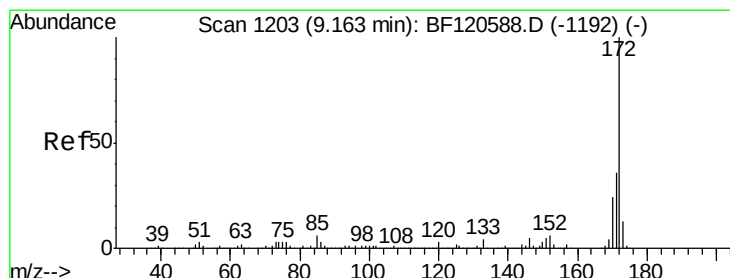
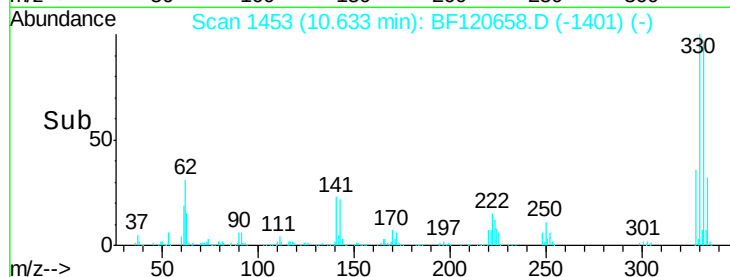
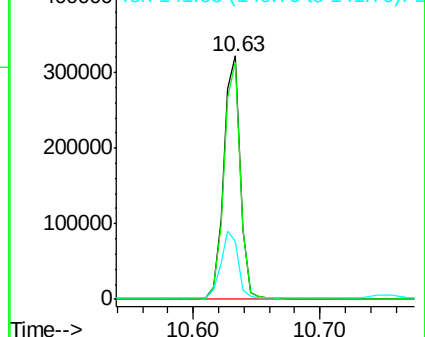
141 28.8 23.2 34.8



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: 73.430 ng

RT: 9.16 min Scan# 1203

Delta R.T. 0.00 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

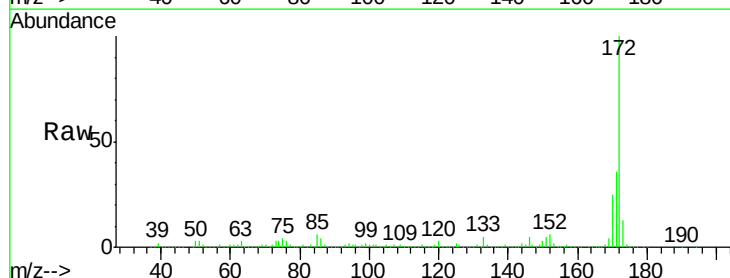
Tgt Ion:172 Resp: 1316820

Ion Ratio Lower Upper

172 100

171 35.9 29.0 43.4

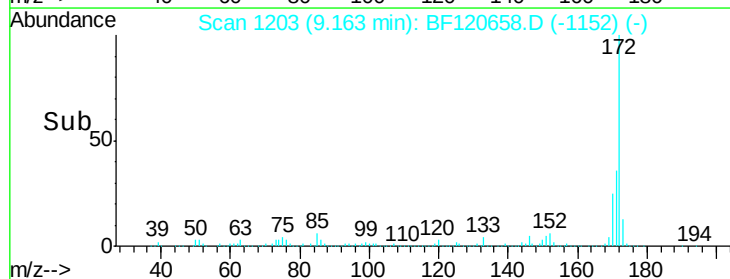
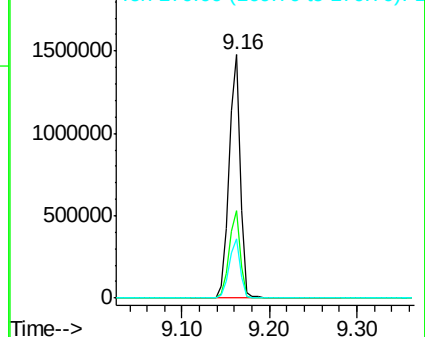
170 24.6 19.4 29.2

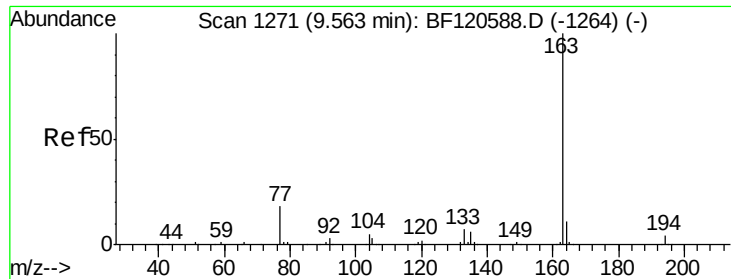


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 6.382 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF120658.D

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Instrument :

BNA\_F

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SU-04-061720

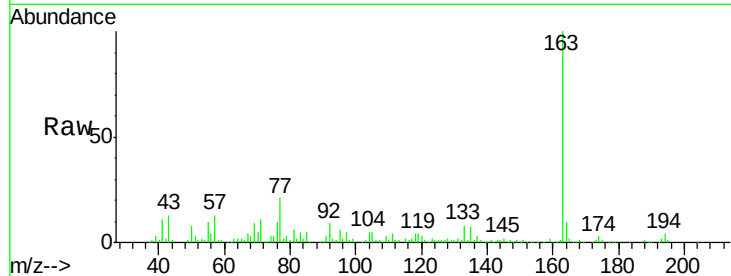
Tot Ion:163 Resp: 126113

Ion Ratio Lower Upper

163 100

194 4.4 3.1 4.7

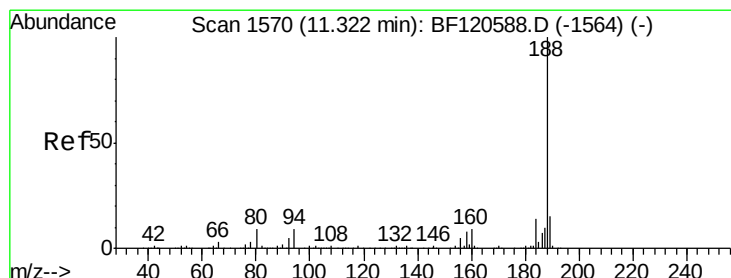
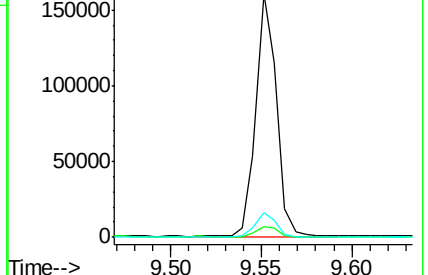
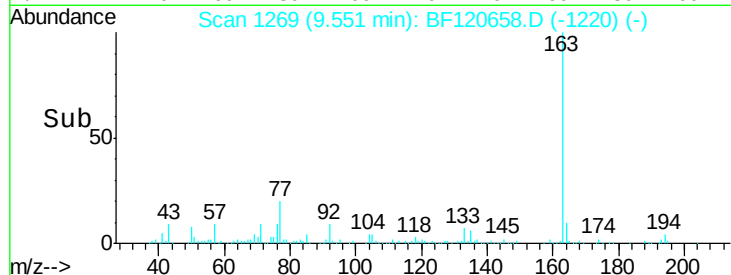
164 10.1 8.5 12.7



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



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

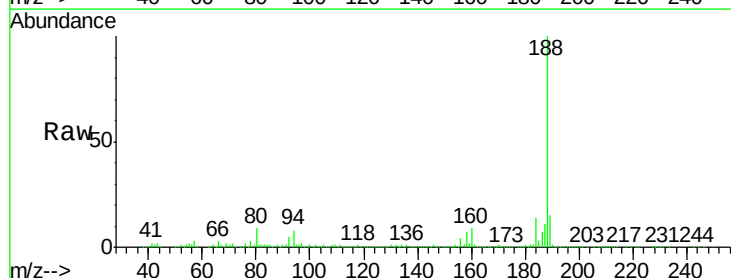
Tgt Ion:188 Resp: 504025

Ion Ratio Lower Upper

188 100

94 8.4 7.2 10.8

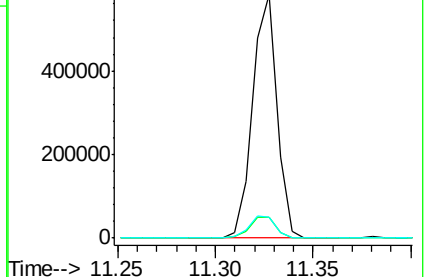
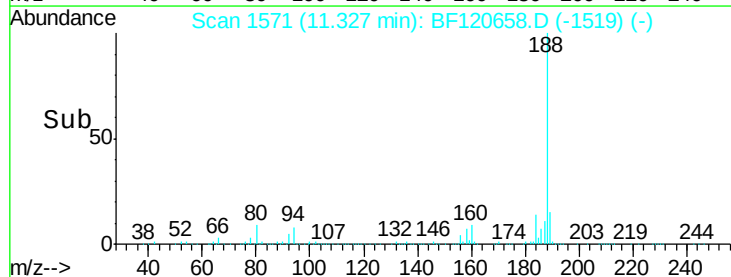
80 8.7 7.4 11.2



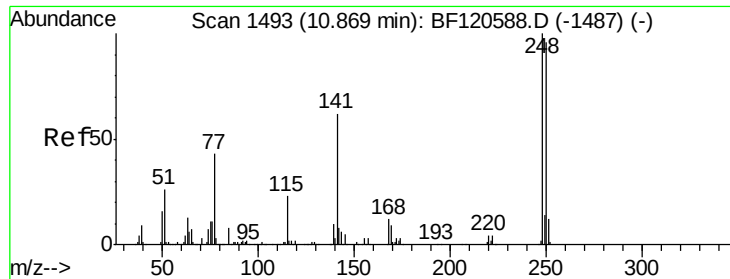
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



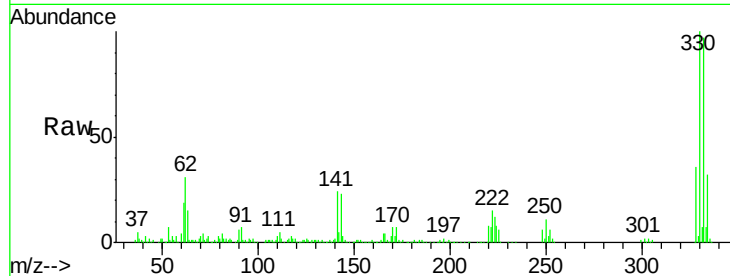




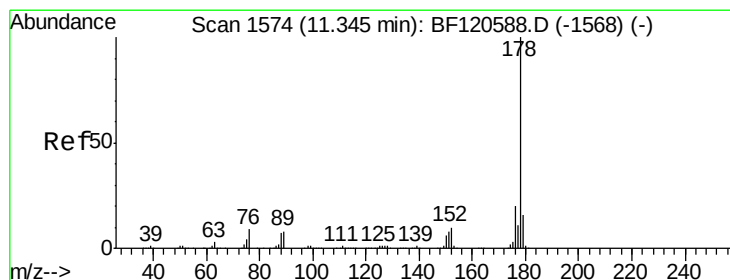
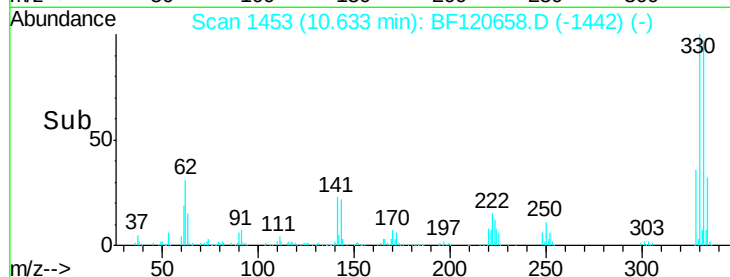
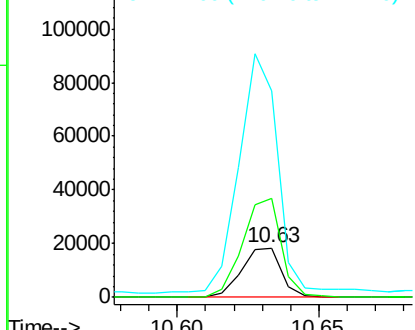
#67  
4-Bromophenyl-phenylether  
Concen: 3.115 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. -0.24 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-061720

Tot Ion:248 Resp: 17818  
Ion Ratio Lower Upper  
248 100  
250 200.3 76.7 115.1#  
141 416.4 49.4 74.0#

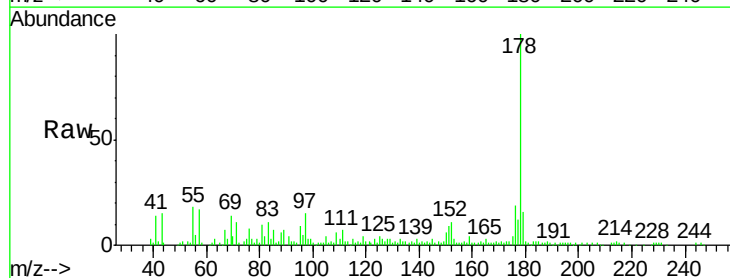


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

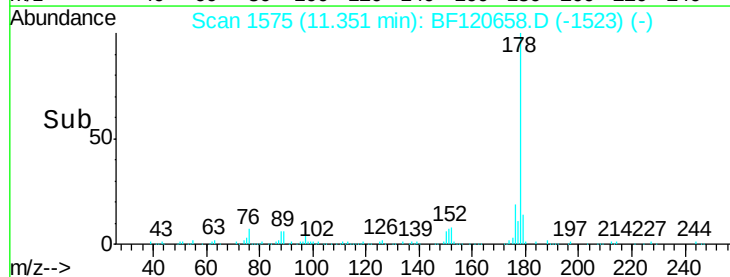
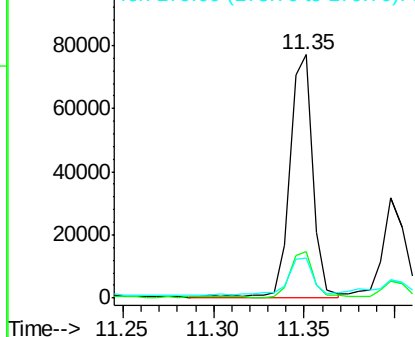


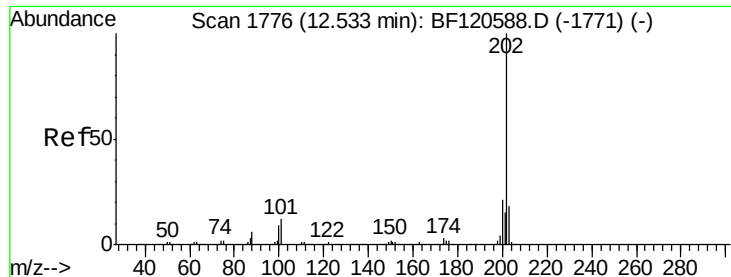
#71  
Phenanthrene  
Concen: 2.701 ng  
RT: 11.35 min Scan# 1575  
Delta R.T. 0.01 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Tgt Ion:178 Resp: 67665  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.9 23.9  
179 16.3 12.8 19.2



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





#75

Fluoranthene

Concen: 5.804 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

Instrument :

BNA\_F

ClientSampleId :

SU-04-061720

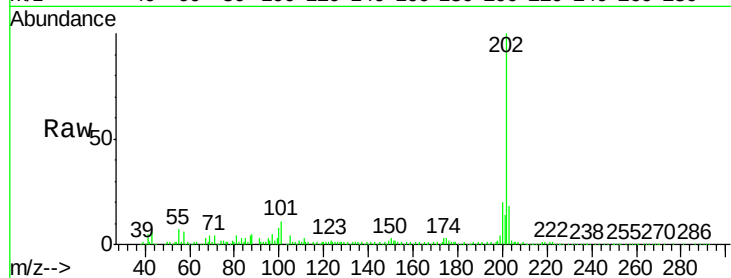
Tot Ion:202 Resp: 166261

Ion Ratio Lower Upper

202 100

101 11.4 0.0 32.0

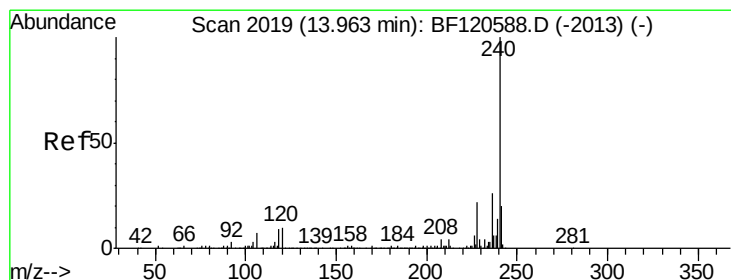
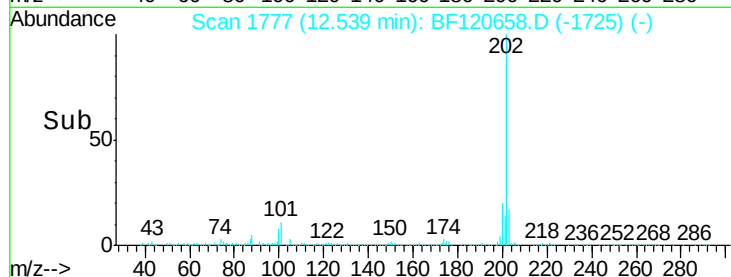
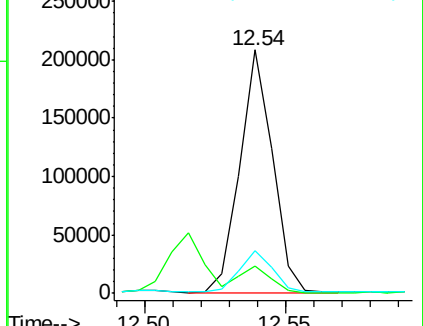
203 17.7 0.0 38.3



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: 13.97 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

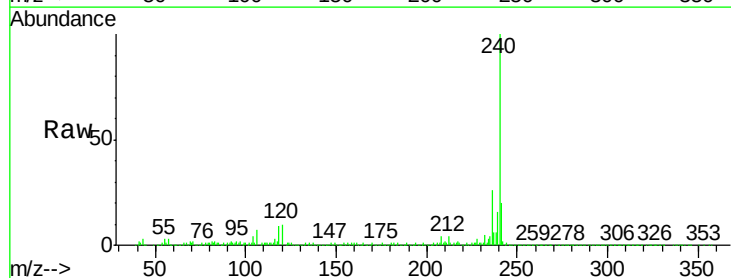
Tgt Ion:240 Resp: 395724

Ion Ratio Lower Upper

240 100

120 10.2 8.3 12.5

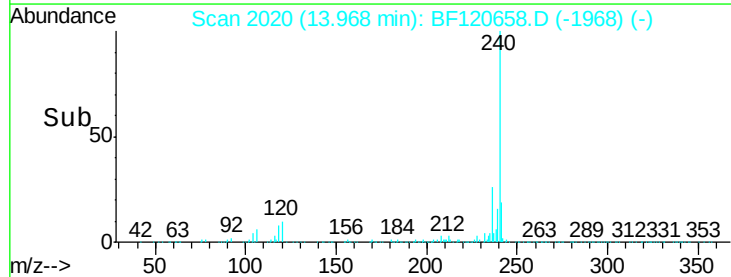
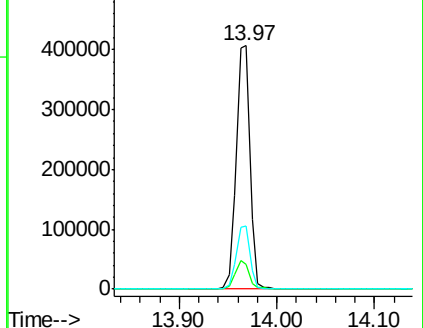
236 26.0 21.0 31.4

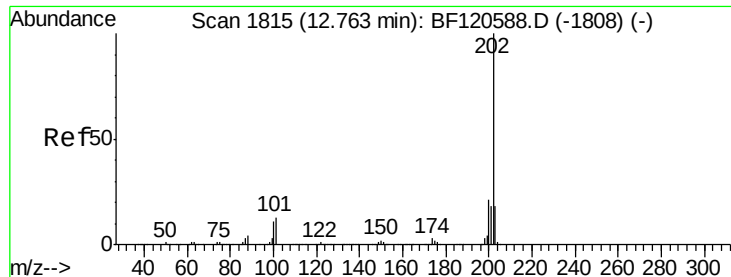


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 5.807 ng

RT: 12.77 min Scan# 1816

Delta R.T. 0.01 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

Instrument :

BNA\_F

ClientSampleId :

SU-04-061720

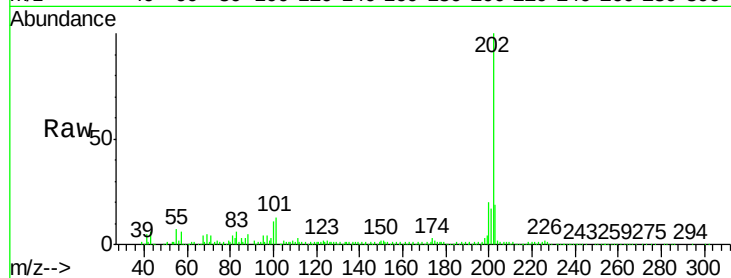
Tot Ion:202 Resp: 162780

Ion Ratio Lower Upper

202 100

200 19.6 16.8 25.2

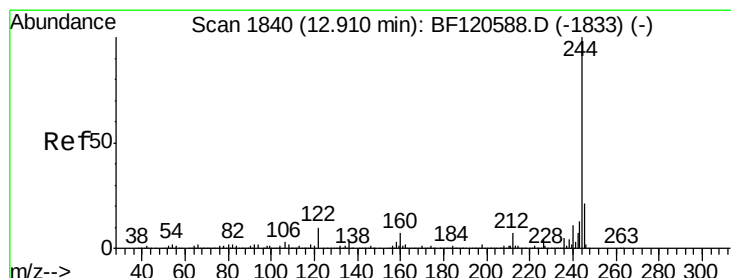
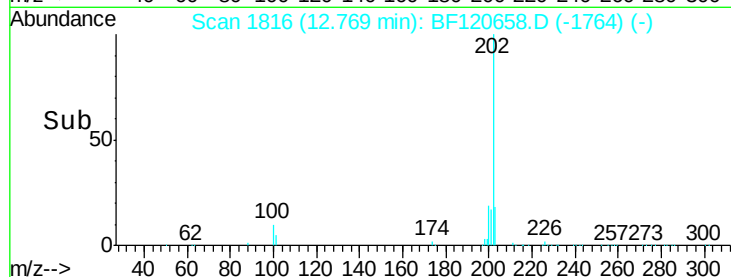
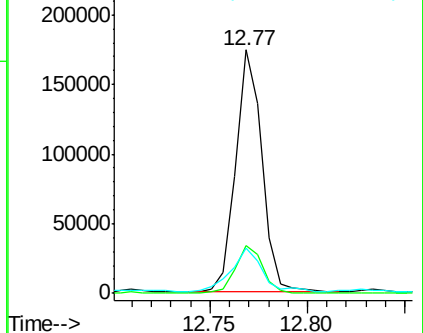
203 18.6 14.3 21.5



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: 77.404 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.01 min

Lab File: BF120658.D

Acq: 18 Jun 2020 22:50

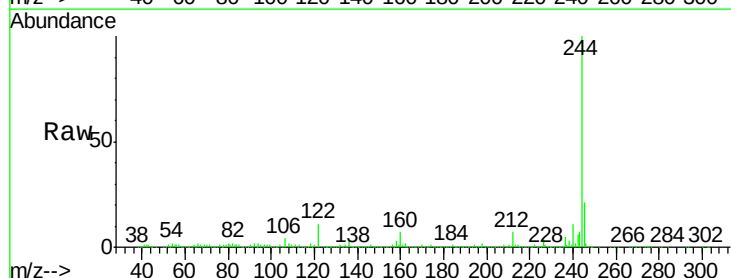
Tgt Ion:244 Resp: 1386710

Ion Ratio Lower Upper

244 100

212 6.7 5.7 8.5

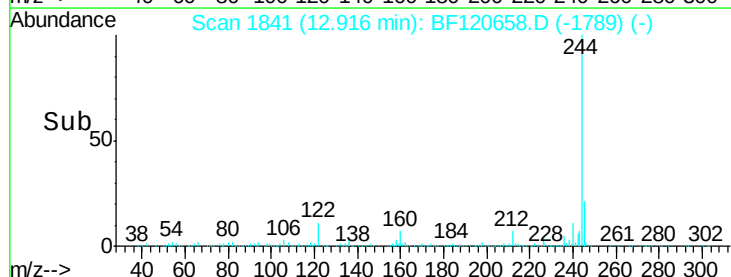
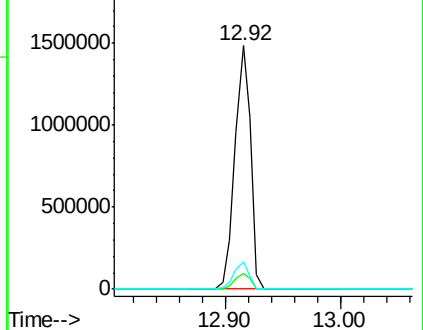
122 11.1 8.3 12.5

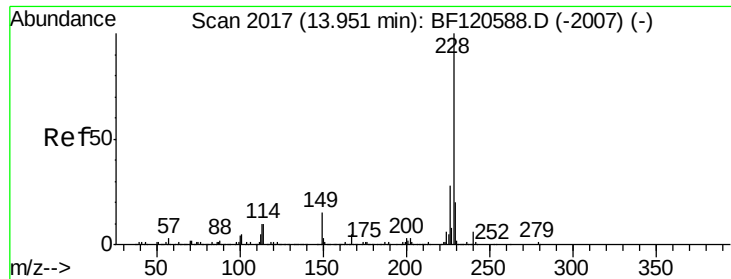


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

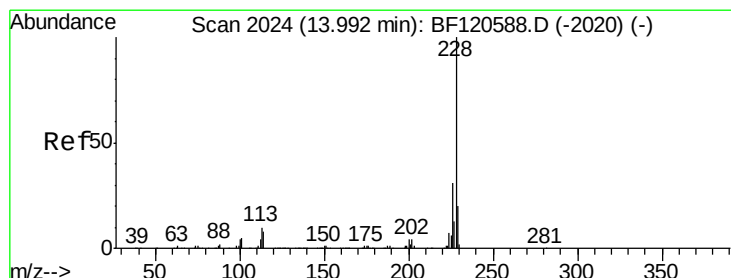
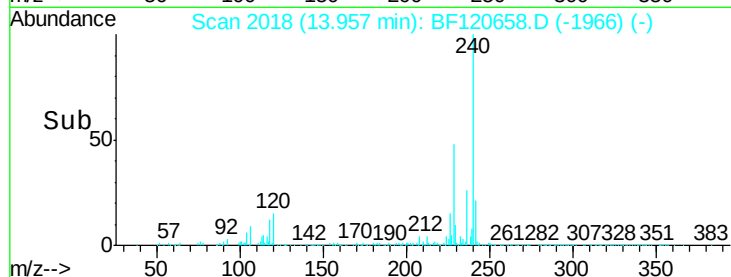
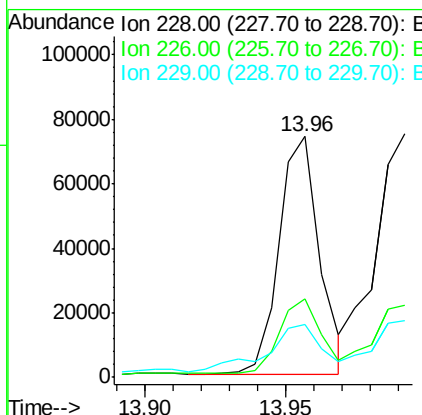
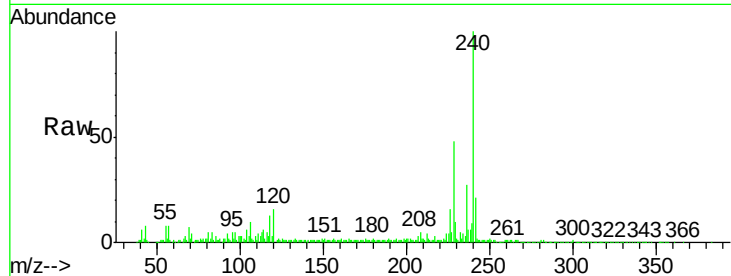




#81  
Benzo(a)anthracene  
Concen: 3.071 ng  
RT: 13.96 min Scan# 2018  
Delta R.T. 0.01 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

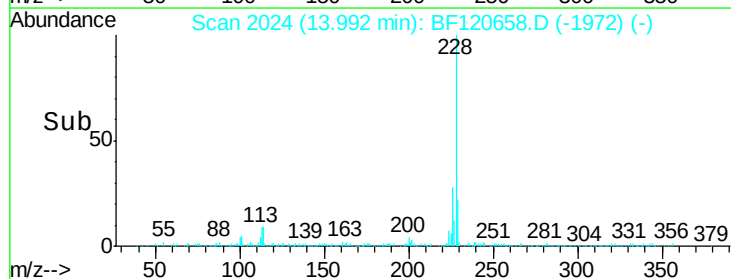
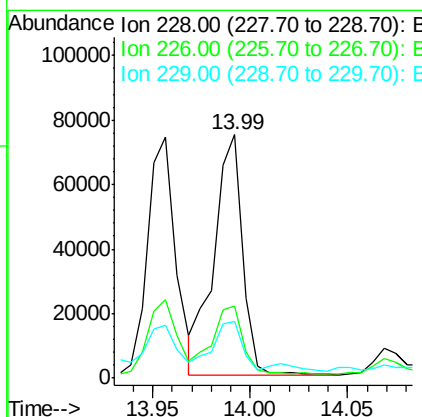
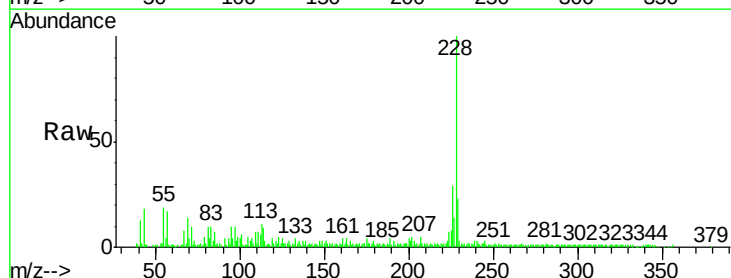
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-061720

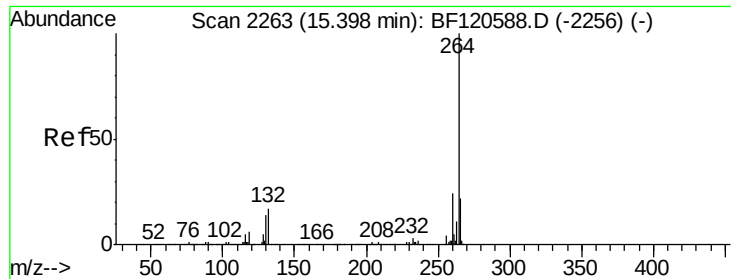
Tot Ion:228 Resp: 73007  
Ion Ratio Lower Upper  
228 100  
226 32.9 22.5 33.7  
229 21.9 16.1 24.1



#83  
Chrysene  
Concen: 3.111 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. 0.01 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Tgt Ion:228 Resp: 75872  
Ion Ratio Lower Upper  
228 100  
226 29.4 24.9 37.3  
229 23.3 16.1 24.1

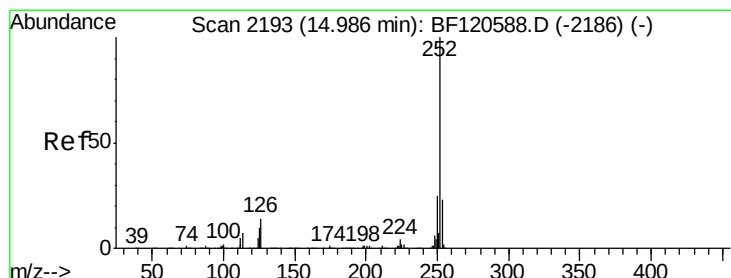
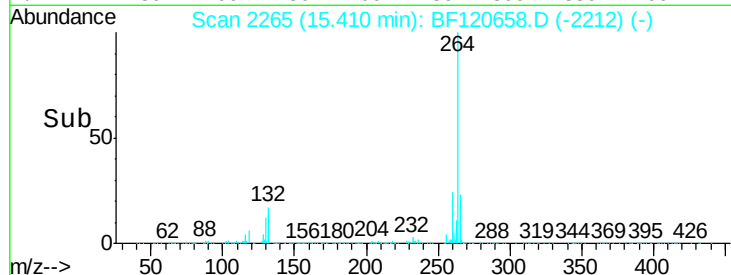
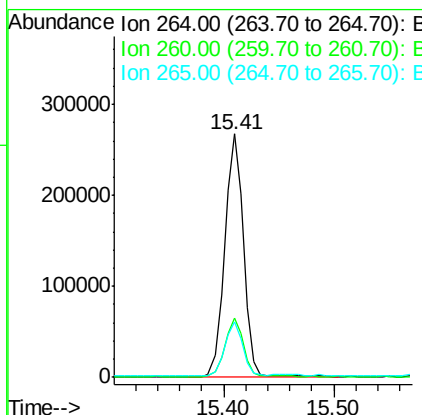
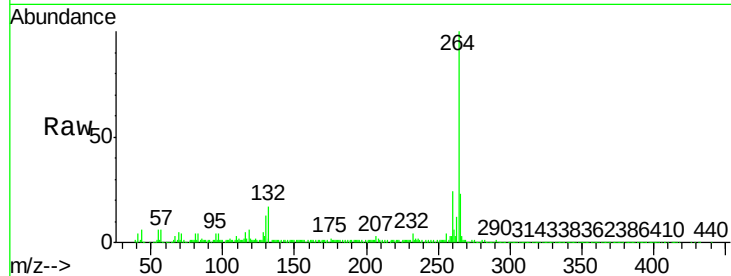




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.41 min Scan# 2265  
Delta R.T. 0.01 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

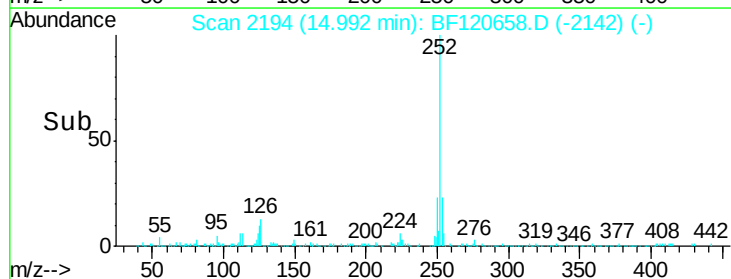
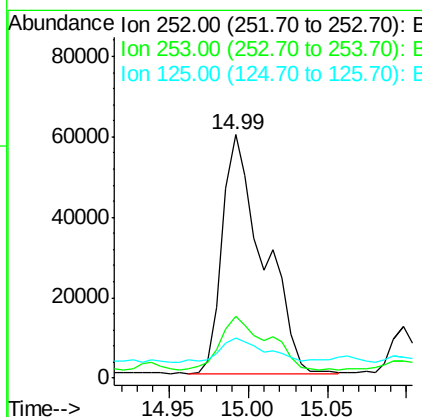
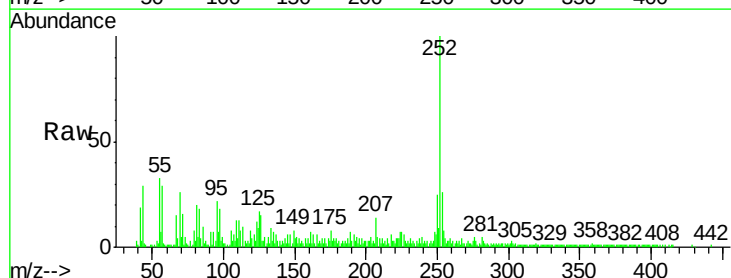
Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-061720

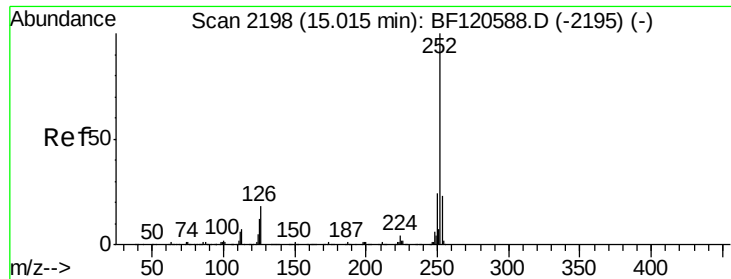
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.3  | 28.9  |
| 265     | 23.0  | 17.8  | 26.8  |



#88  
Benzo(b)fluoranthene  
Concen: 5.741 ng  
RT: 14.99 min Scan# 2194  
Delta R.T. 0.01 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 18.1  | 27.1  |
| 125     | 16.7  | 8.3   | 12.5# |

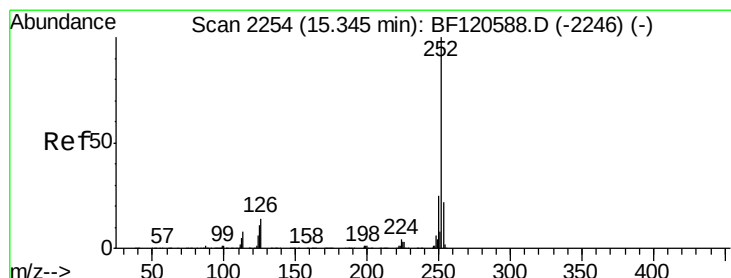
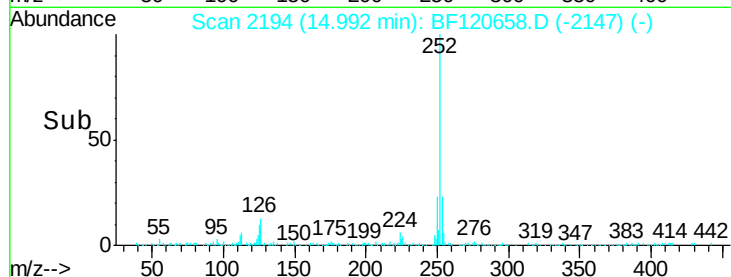
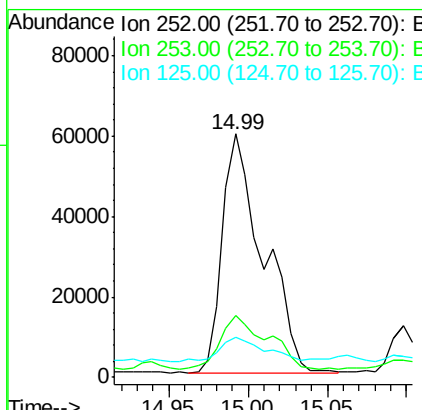
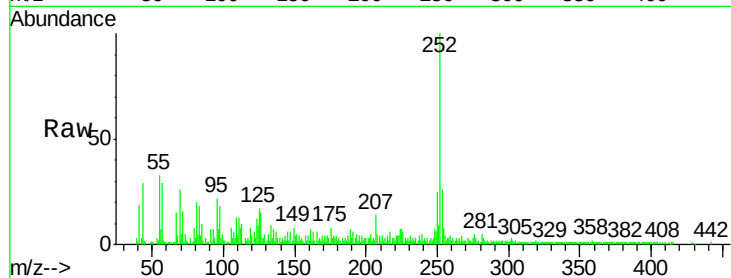




#89  
Benzo(k)fluoranthene  
Concen: 6.488 ng  
RT: 14.99 min Scan# 2194  
Delta R.T. -0.02 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Instrument :  
BNA\_F  
ClientSampleId :  
SU-04-061720

Tot Ion:252 Resp: 107863  
Ion Ratio Lower Upper  
252 100  
253 25.5 18.0 27.0  
125 16.7 8.3 12.5#



#90  
Benzo(a)pyrene  
Concen: 3.222 ng  
RT: 15.34 min Scan# 2254  
Delta R.T. 0.01 min  
Lab File: BF120658.D  
Acq: 18 Jun 2020 22:50

Tgt Ion:252 Resp: 54172  
Ion Ratio Lower Upper  
252 100  
253 25.9 17.8 26.8  
125 19.7 8.6 12.8#

