

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032720\  
 Data File : BF119618.D  
 Acq On : 28 Mar 2020 15:51  
 Operator : CG/JU  
 Sample : L2035-01  
 Misc :  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-054-A

Quant Time: Mar 29 23:18:34 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF031820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 27 07:52:09 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 302573   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 1207962  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.87  | 164  | 617655   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.36 | 188  | 935539   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.00 | 240  | 650664   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.47 | 264  | 656682   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.45  | 112  | 1640157  | 86.29 | ng    | 0.01     |
| 7) Phenol-d6                | 6.46  | 99   | 2094050  | 86.25 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 1414524  | 63.64 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 524687   | 82.34 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 2472964  | 59.32 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.95 | 244  | 1903372  | 57.31 | ng    | -0.01    |

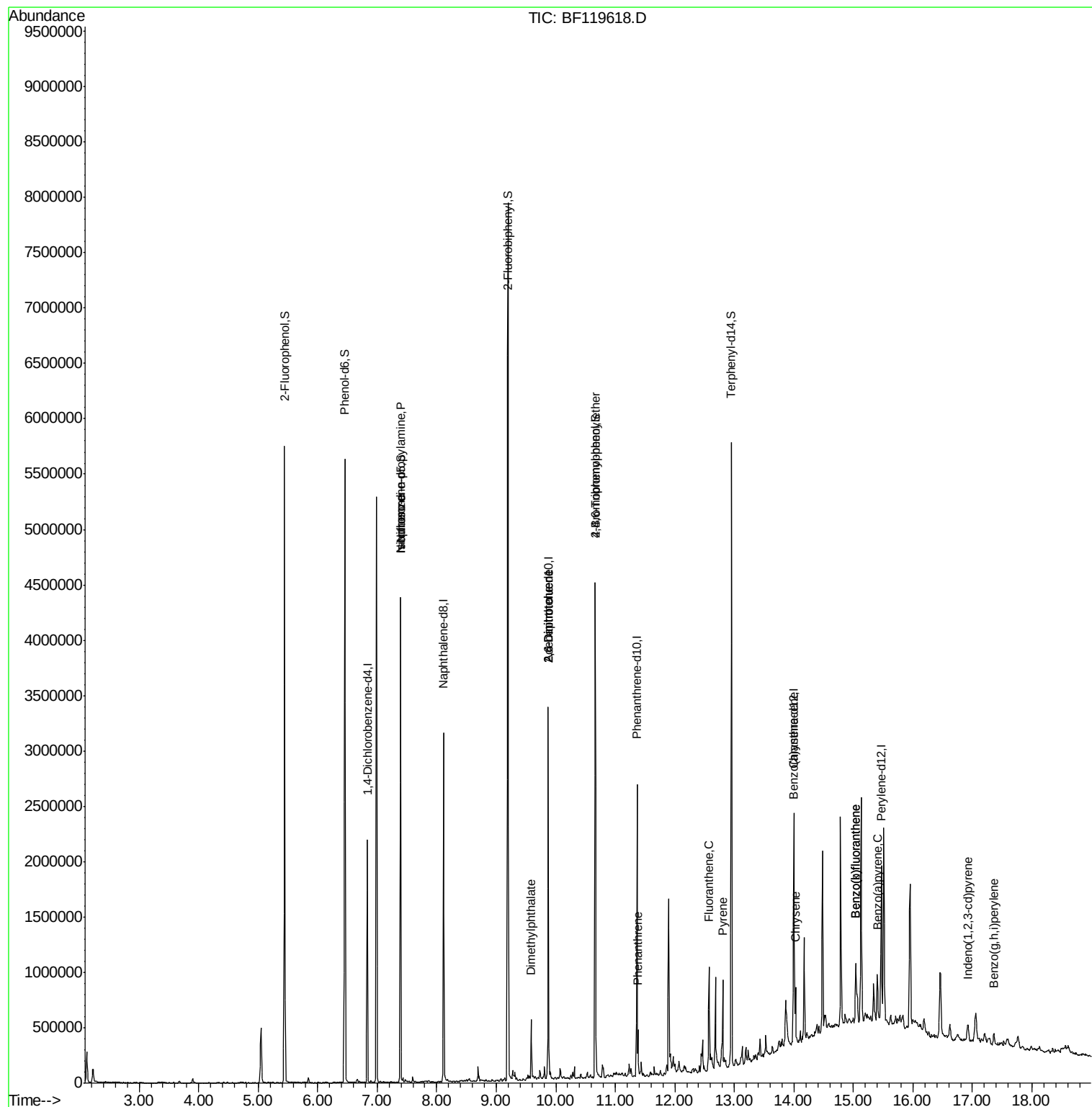
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 189935   | 12.98 | ng    | # 77   |
| 25) Isophorone                 | 7.39  | 82   | 1404640  | 31.15 | ng    | # 65   |
| 50) Dimethylphthalate          | 9.59  | 163  | 183463   | 4.18  | ng    | 100    |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 81634    | 8.68  | ng    | # 26   |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 81634    | 6.89  | ng    | # 20   |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 32350    | 3.04  | ng    | # 1    |
| 71) Phenanthrene               | 11.39 | 178  | 147858   | 3.05  | ng    | 98     |
| 75) Fluoranthene               | 12.57 | 202  | 345590   | 6.58  | ng    | 98     |
| 78) Pyrene                     | 12.80 | 202  | 314615   | 5.89  | ng    | 97     |
| 81) Benzo(a)anthracene         | 13.99 | 228  | 222347   | 5.25  | ng    | 96     |
| 83) Chrysene                   | 14.03 | 228  | 194714   | 4.46  | ng    | 97     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.92 | 276  | 109950   | 2.67  | ng    | # 92   |
| 88) Benzo(b)fluoranthene       | 15.04 | 252  | 406410   | 9.26  | ng    | # 94   |
| 89) Benzo(k)fluoranthene       | 15.04 | 252  | 406410   | 9.73  | ng    | 96     |
| 90) Benzo(a)pyrene             | 15.40 | 252  | 204496   | 5.13  | ng    | 98     |
| 92) Benzo(g,h,i)perylene       | 17.36 | 276  | 96948    | 2.77  | ng    | 96     |

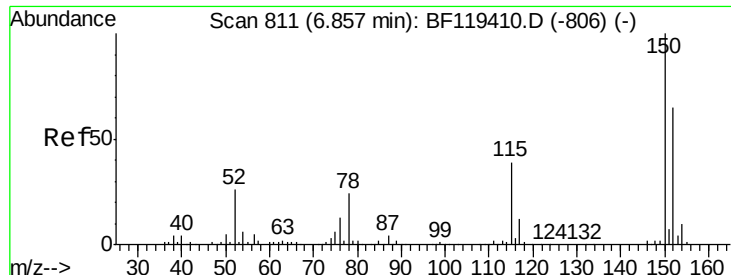
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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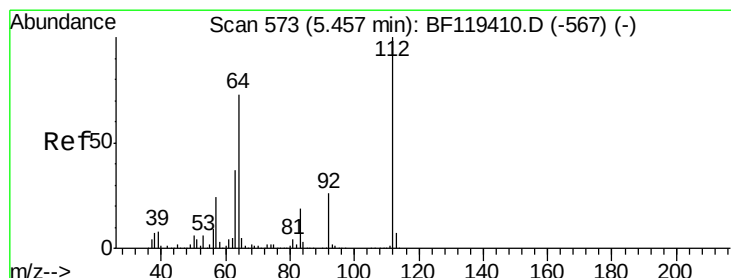
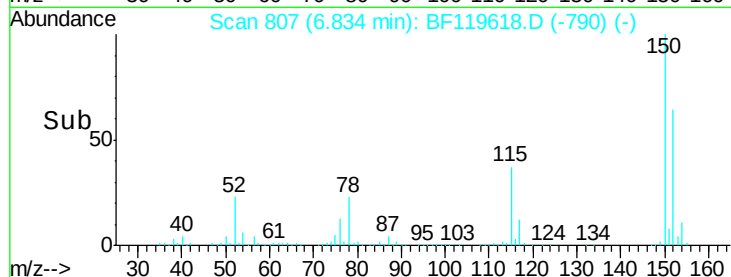
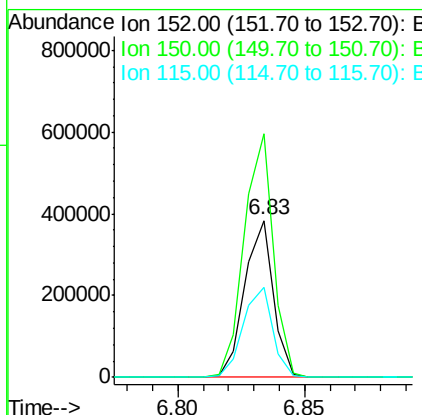
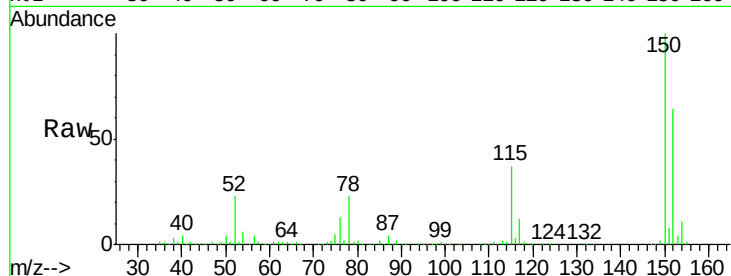


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.83 min Scan# 807  
Delta R.T. -0.00 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-054-A

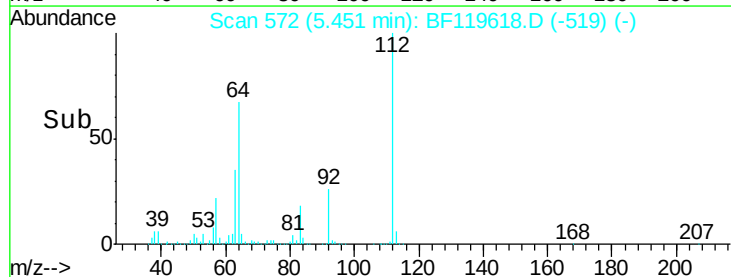
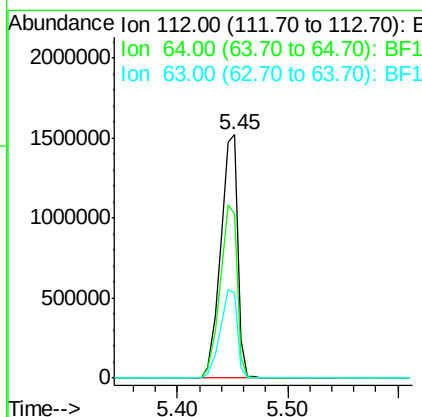
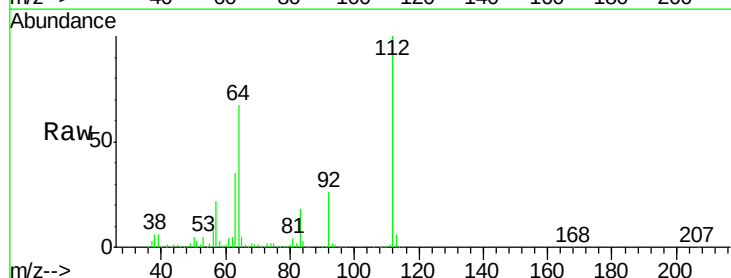
Tgt Ion:152 Resp: 302573  
Ion Ratio Lower Upper  
152 100  
150 155.3 124.5 186.7  
115 57.5 49.6 74.4

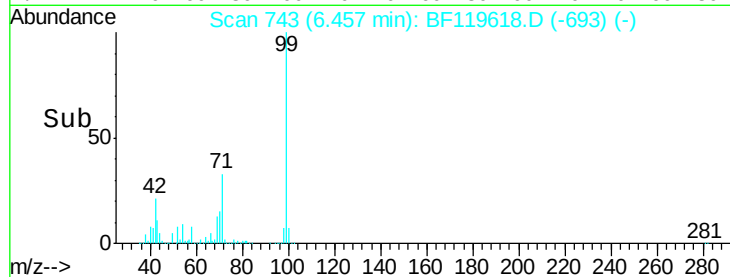
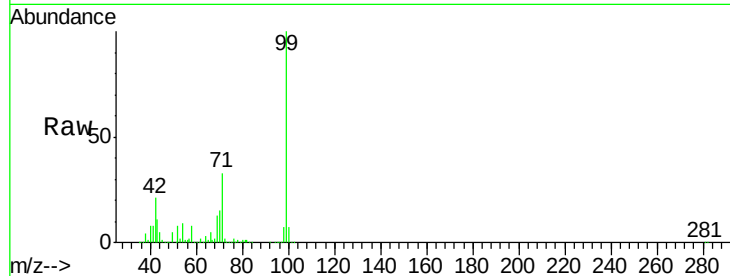
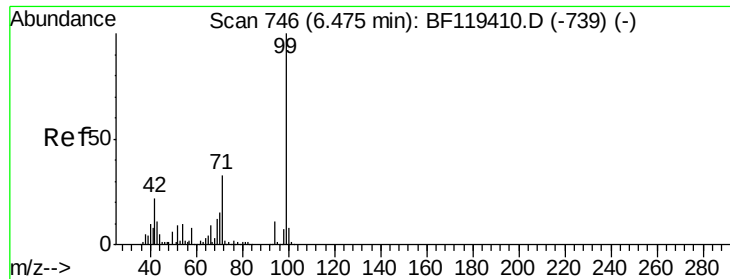


#5

2-Fluorophenol  
Concen: 86.29 ng  
RT: 5.45 min Scan# 572  
Delta R.T. 0.01 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

Tgt Ion:112 Resp: 1640157  
Ion Ratio Lower Upper  
112 100  
64 67.2 56.7 85.1  
63 34.7 29.5 44.3





#7

Phenol-d6

Concen: 86.25 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-054-A

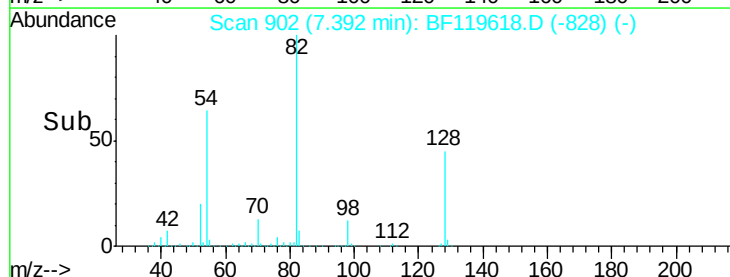
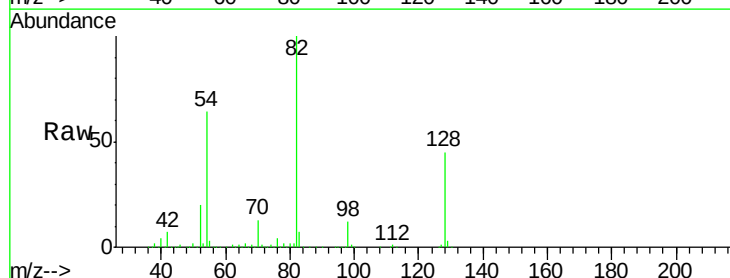
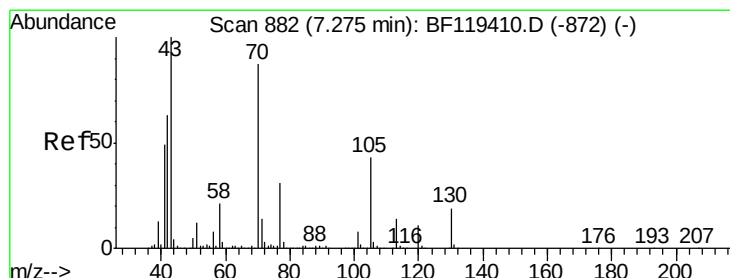
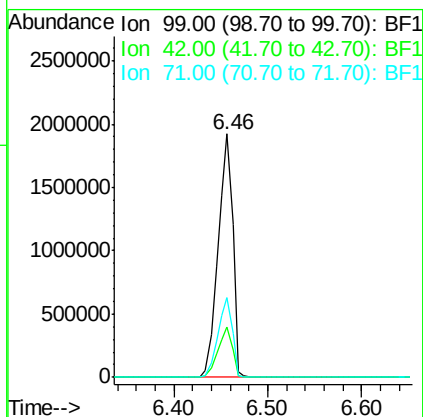
Tgt Ion: 99 Resp: 2094050

Ion Ratio Lower Upper

99 100

42 20.9 16.6 24.8

71 32.9 26.4 39.6



#19

n-Nitroso-di-n-propylamine

Concen: 12.98 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.14 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

Tgt Ion: 70 Resp: 189935

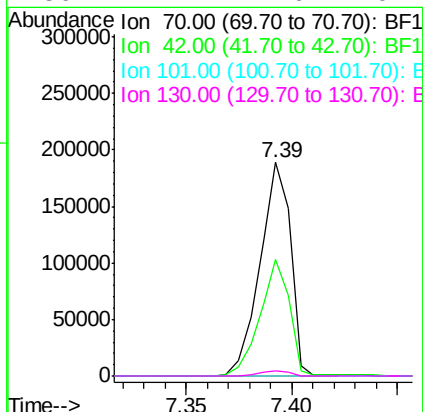
Ion Ratio Lower Upper

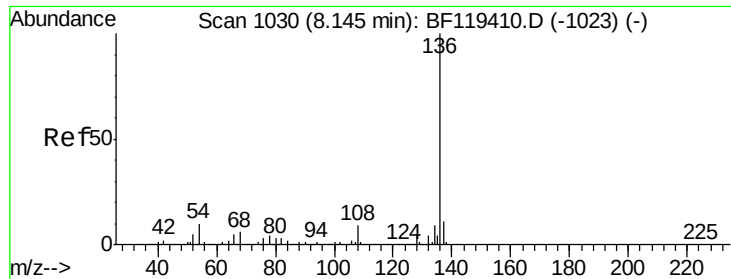
70 100

42 54.6 54.5 81.7

101 0.0 7.6 11.4#

130 2.4 17.6 26.4#



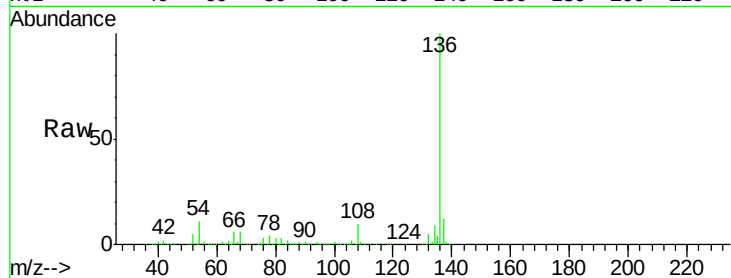


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-054-A

Tgt Ion:136 Resp: 1207962

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.6  | 8.7   | 13.1  |
| 54  | 11.0  | 9.1   | 13.7  |
| 68  | 6.1   | 4.6   | 6.8   |

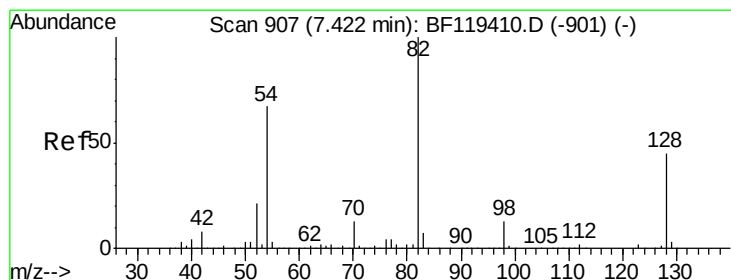
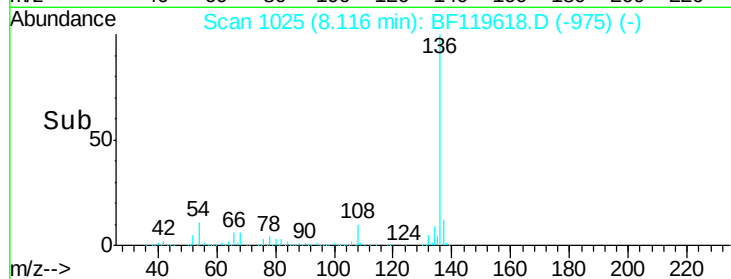
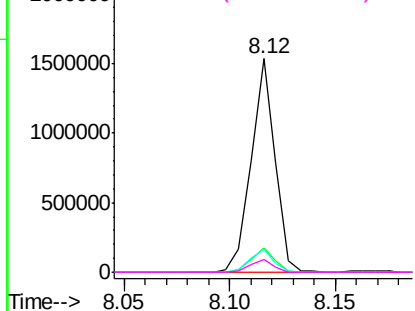


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

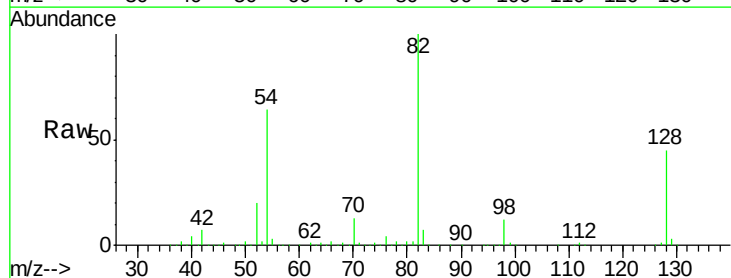
Ion 68.00 (67.70 to 68.70): BF1



#23  
Nitrobenzene-d5  
Concen: 63.64 ng  
RT: 7.39 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

Tgt Ion: 82 Resp: 1414524

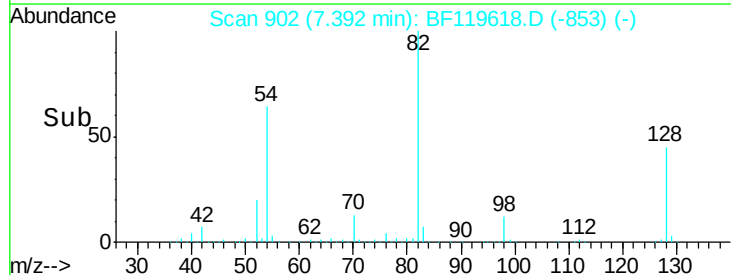
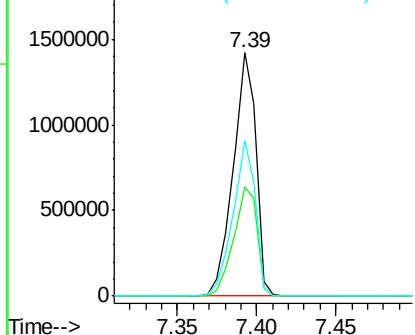
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 45.0  | 36.3  | 54.5  |
| 54  | 63.8  | 50.6  | 75.8  |

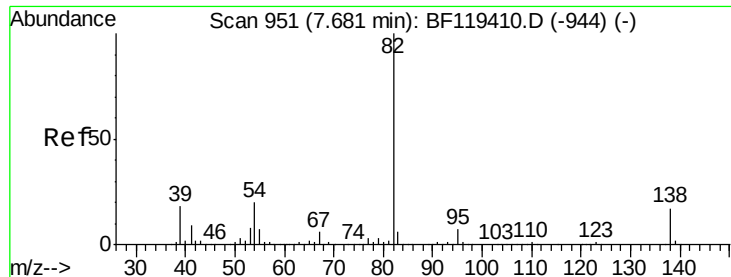


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 31.15 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.27 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-054-A

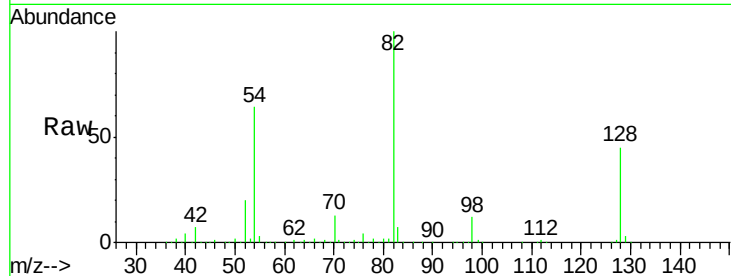
Tgt Ion: 82 Resp: 1404640

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

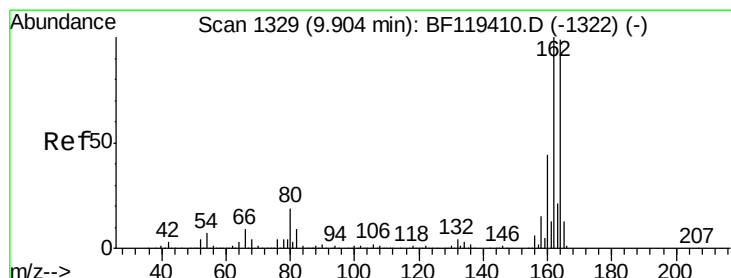
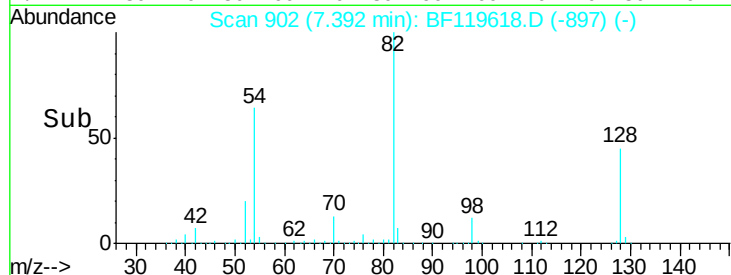
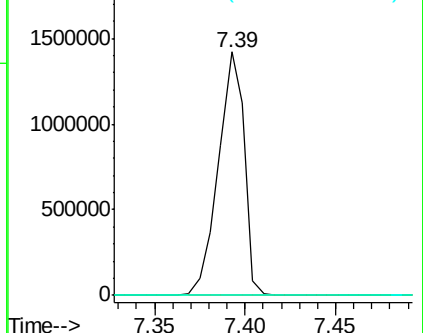
138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

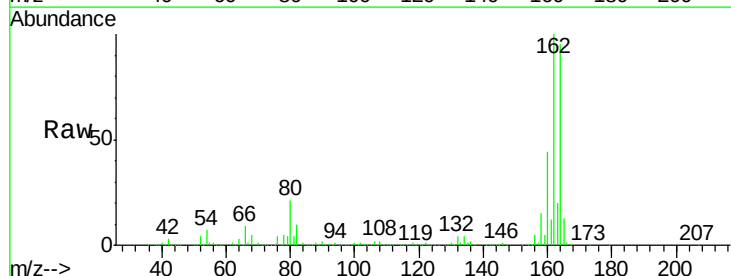
Tgt Ion: 164 Resp: 617655

Ion Ratio Lower Upper

164 100

162 105.4 80.6 121.0

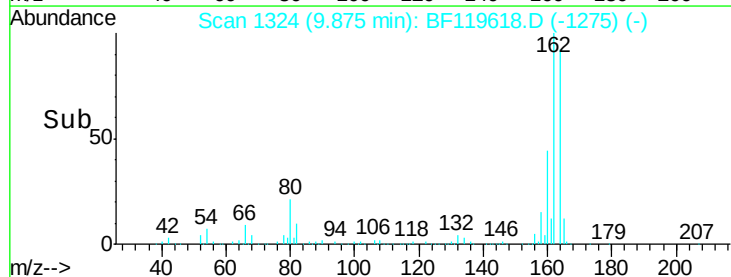
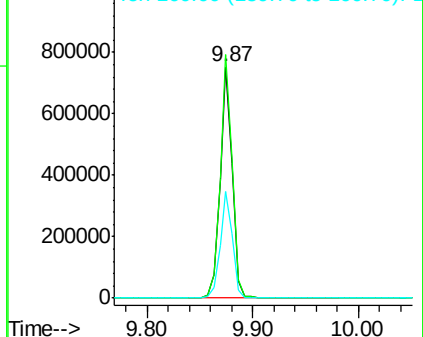
160 46.1 35.7 53.5

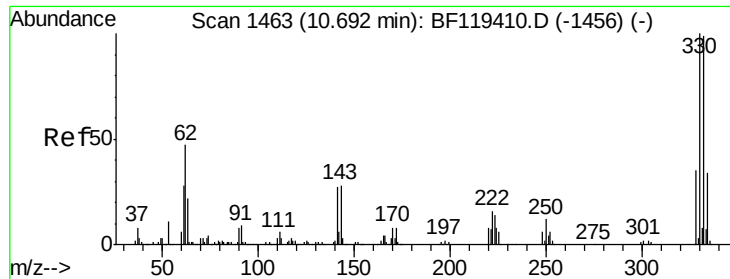


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 82.34 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF119618.D

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Instrument :

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ClientSampleId :

FK-GF-02-054-A

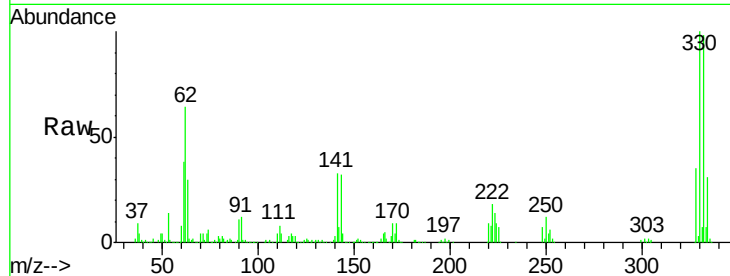
Tgt Ion:330 Resp: 524687

Ion Ratio Lower Upper

330 100

332 97.5 75.7 113.5

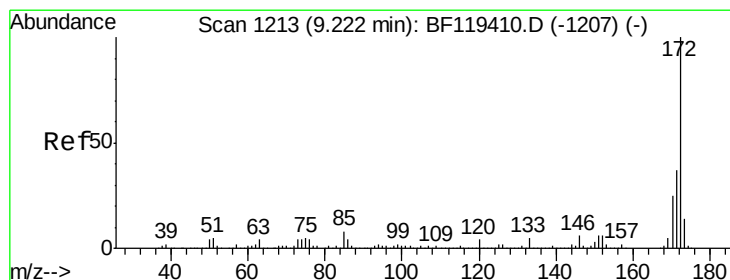
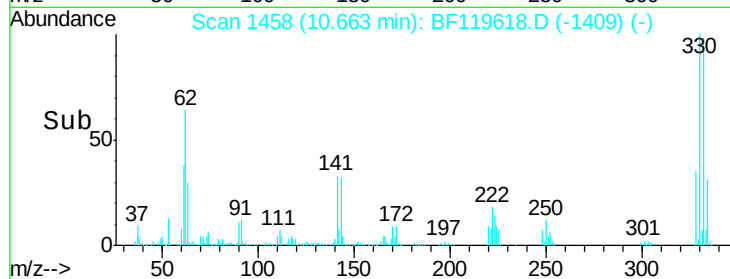
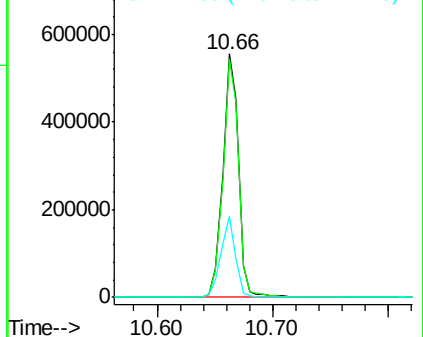
141 31.6 25.4 38.0



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: 59.32 ng

RT: 9.20 min Scan# 1209

Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

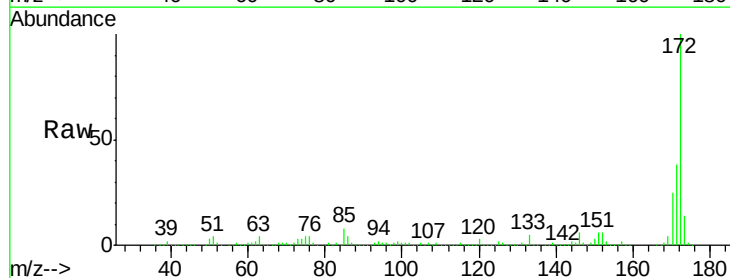
Tgt Ion:172 Resp: 2472964

Ion Ratio Lower Upper

172 100

171 37.6 29.6 44.4

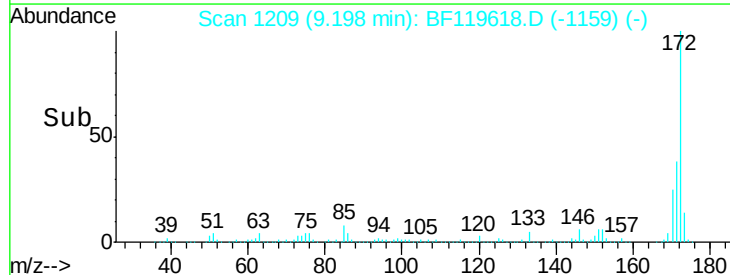
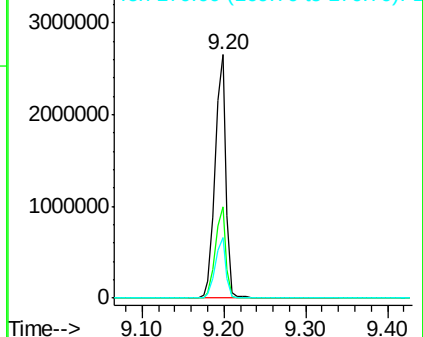
170 24.9 20.2 30.2

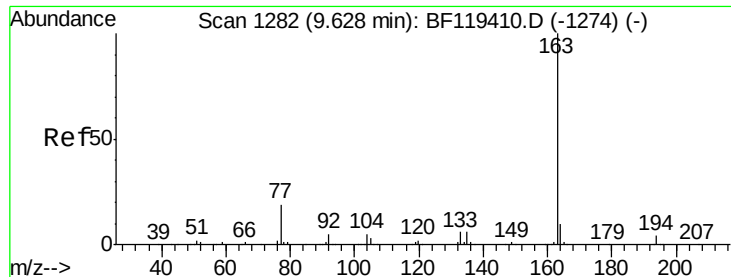


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

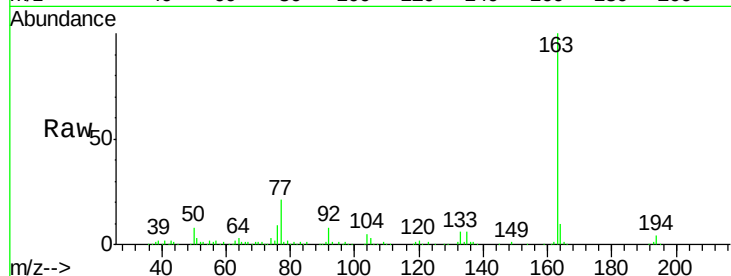




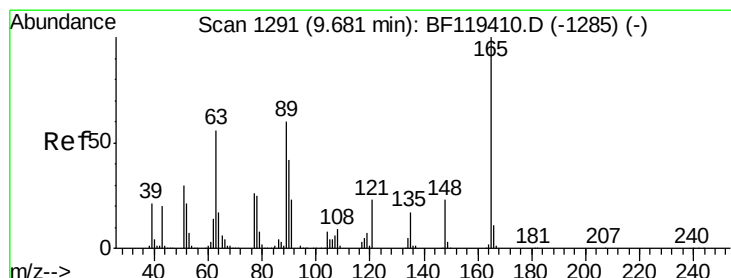
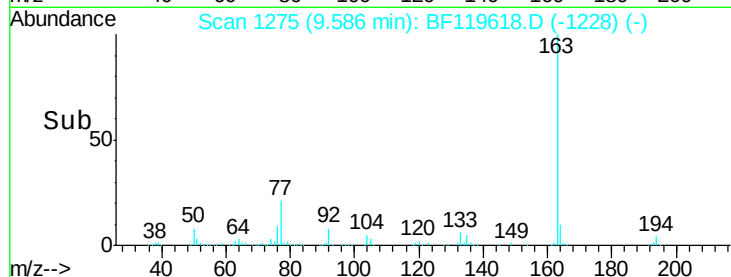
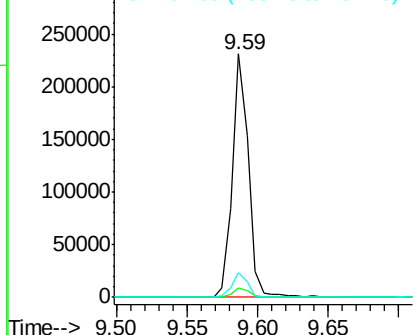
#50  
Dimethylphthalate  
Concen: 4.18 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

Instrument :  
BNA\_F  
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FK-GF-02-054-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.0   | 3.1   | 4.7   |
| 164     | 10.3  | 8.2   | 12.2  |

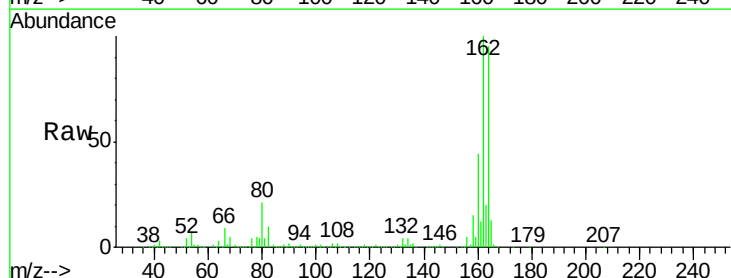


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

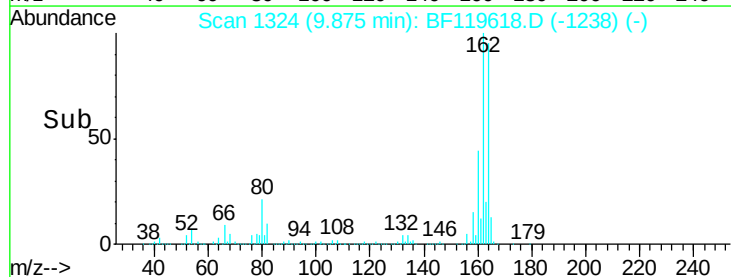
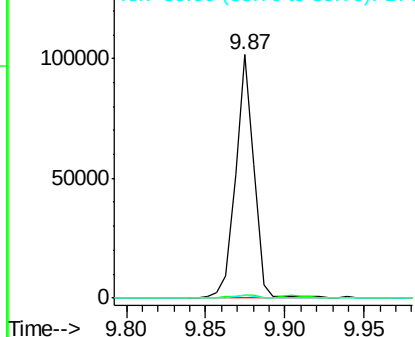


#51  
2,6-Dinitrotoluene  
Concen: 8.68 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. 0.21 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

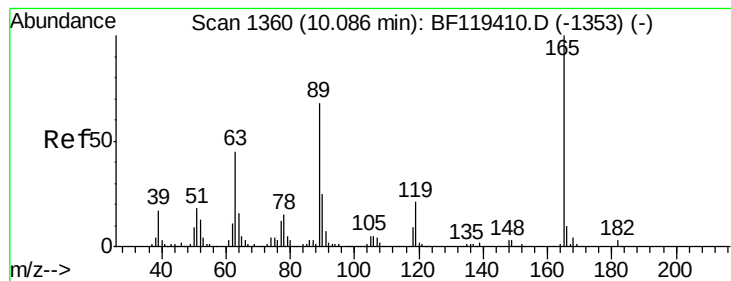
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 45.0  | 67.4# |
| 89      | 1.2   | 41.5  | 62.3# |



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







#57

2,4-Dinitrotoluene

Concen: 6.89 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.19 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

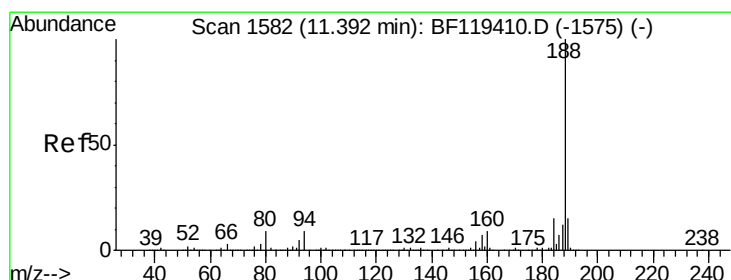
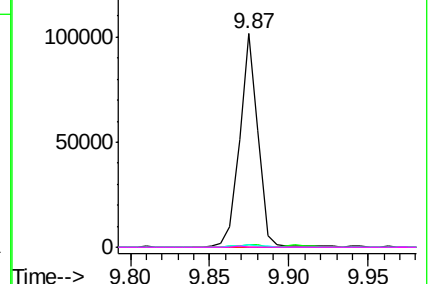
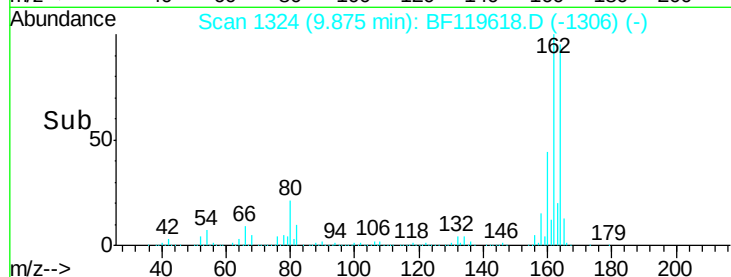
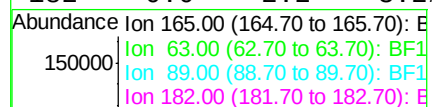
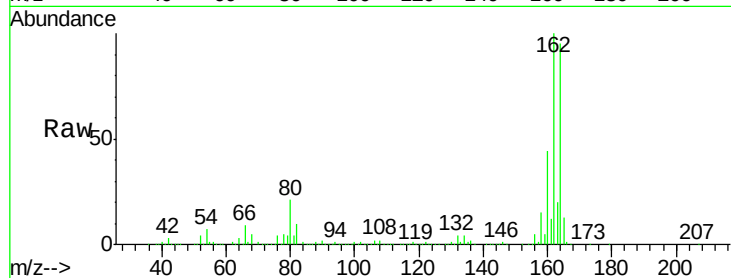
Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-054-A

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 81634 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.3   | 42.6  | 64.0# |
| 89        | 1.2   | 61.0  | 91.4# |
| 182       | 0.0   | 2.2   | 3.2#  |



#64

Phenanthrene-d10

Concen: 20.00 ng

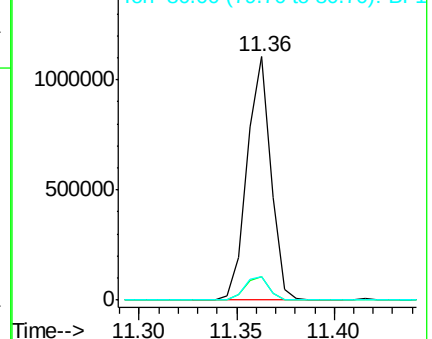
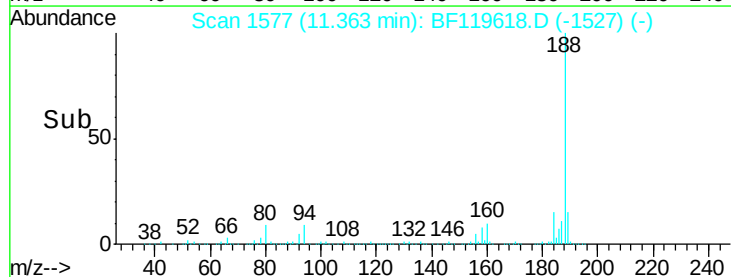
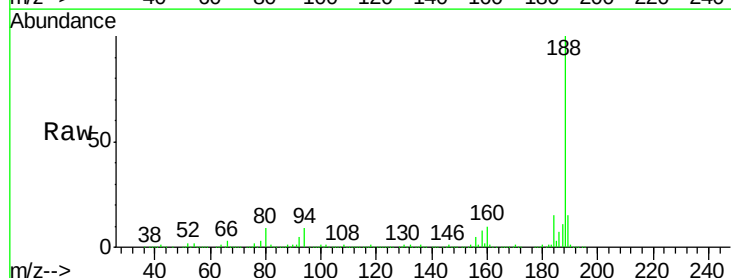
RT: 11.36 min Scan# 1577

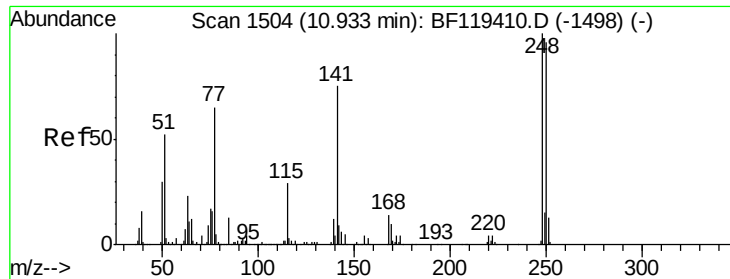
Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 935539 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.5   | 7.5   | 11.3   |
| 80        | 9.5   | 9.0   | 13.4   |

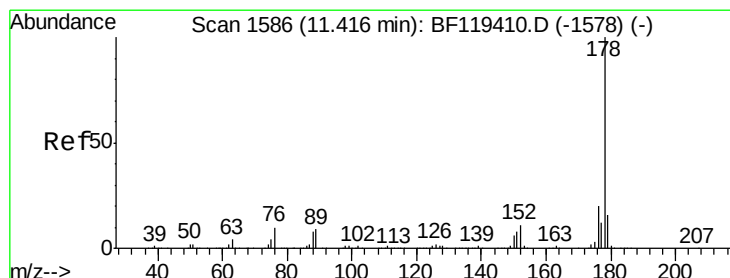
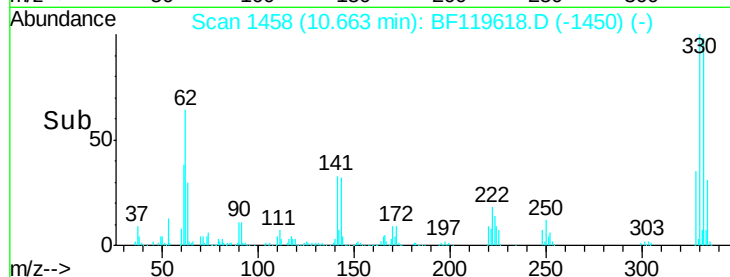
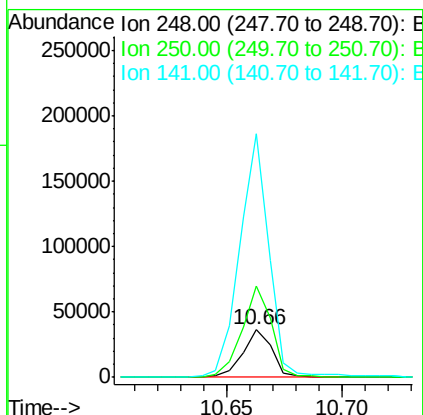
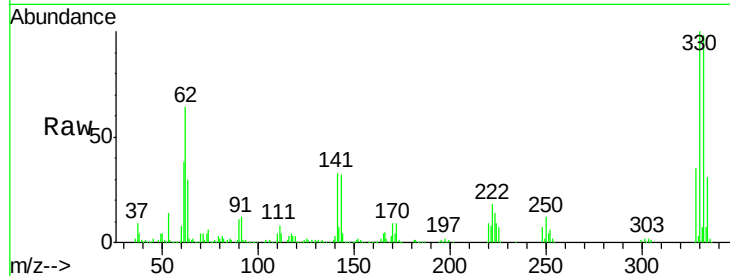




#67  
 4-Bromophenyl-phenylether  
 Concen: 3.04 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.25 min  
 Lab File: BF119618.D  
 Acq: 28 Mar 2020 15:51

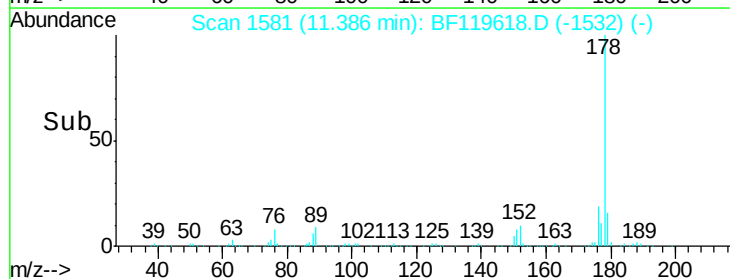
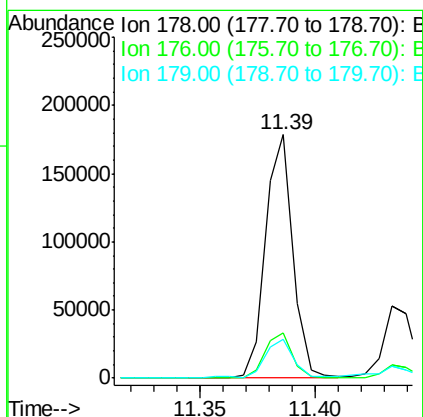
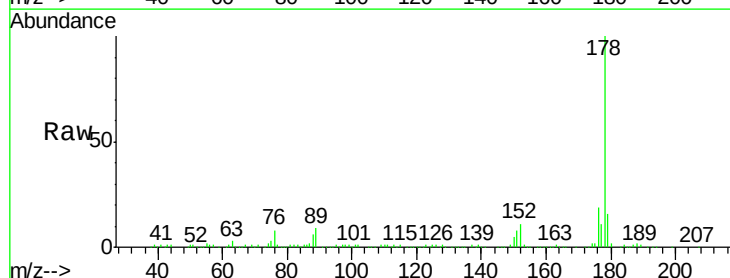
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-054-A

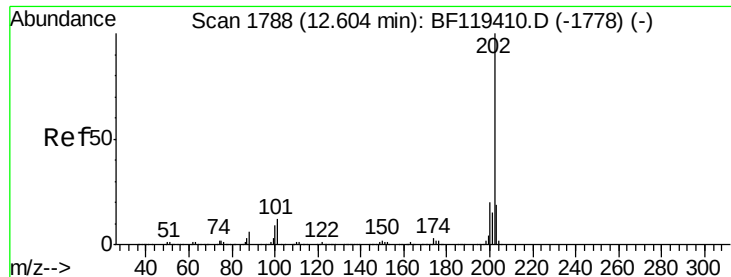
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 190.9 | 77.3  | 115.9# |
| 141     | 512.1 | 58.6  | 87.8#  |



#71  
 Phenanthrene  
 Concen: 3.05 ng  
 RT: 11.39 min Scan# 1581  
 Delta R.T. -0.01 min  
 Lab File: BF119618.D  
 Acq: 28 Mar 2020 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 16.2  | 24.4  |
| 179     | 16.1  | 13.2  | 19.8  |





#75

Fluoranthene

Concen: 6.58 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-054-A

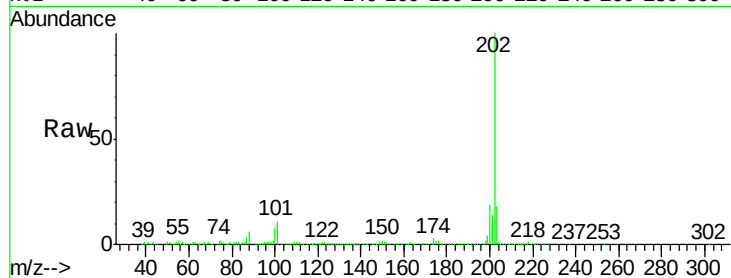
Tgt Ion:202 Resp: 345590

Ion Ratio Lower Upper

202 100

101 11.3 0.0 32.2

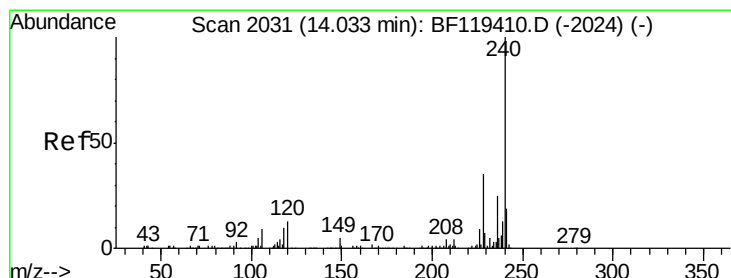
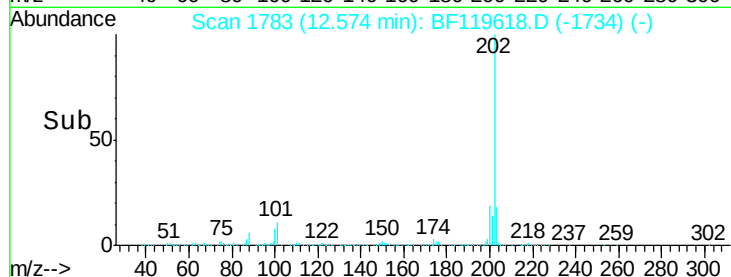
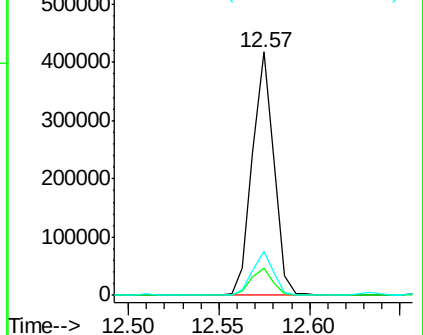
203 17.9 0.0 38.8



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: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

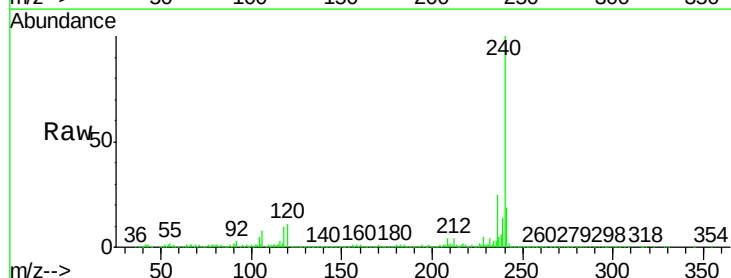
Tgt Ion:240 Resp: 650664

Ion Ratio Lower Upper

240 100

120 11.5 10.6 15.8

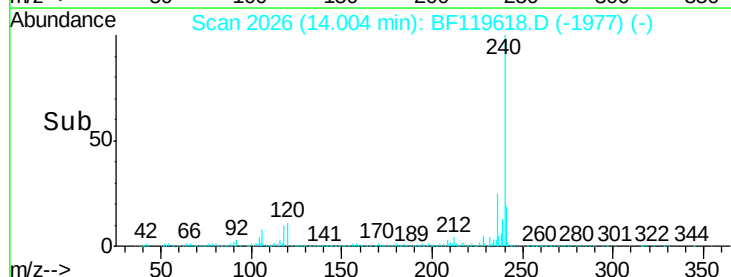
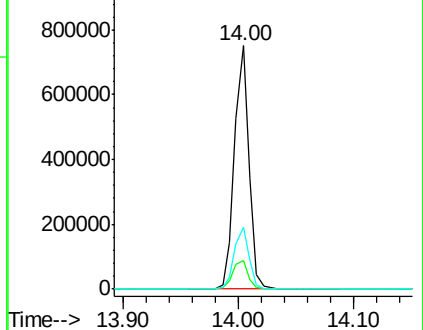
236 25.2 20.2 30.2

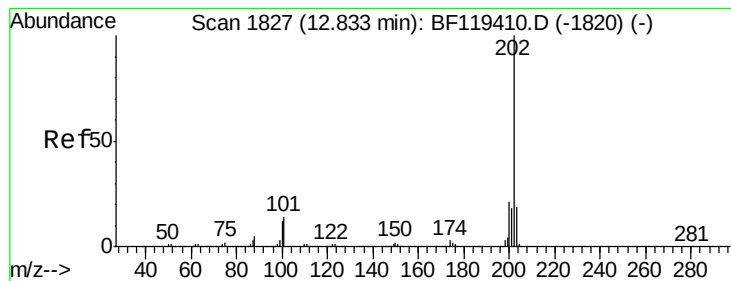


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 5.89 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-054-A

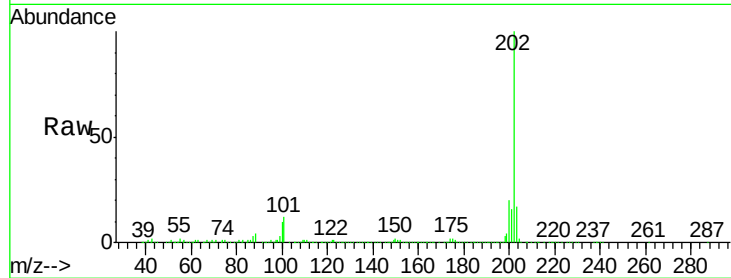
Tgt Ion: 202 Resp: 314615

Ion Ratio Lower Upper

202 100

200 19.7 16.8 25.2

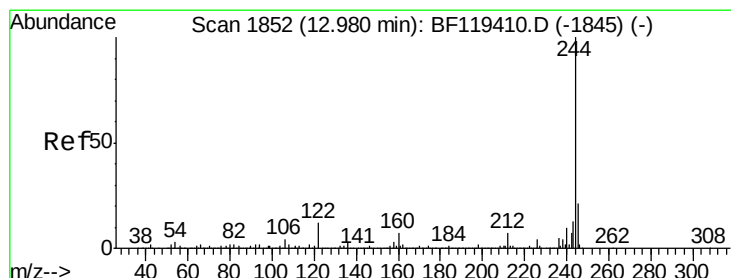
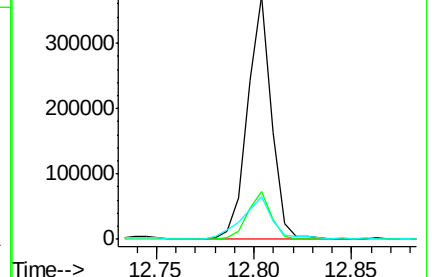
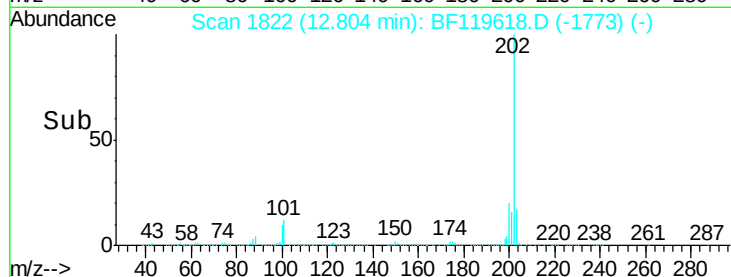
203 17.3 15.1 22.7



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: 57.31 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

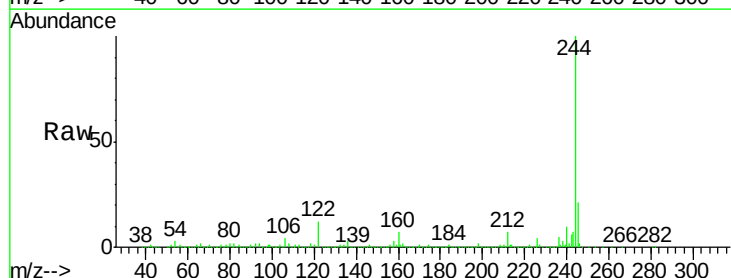
Tgt Ion: 244 Resp: 1903372

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.8

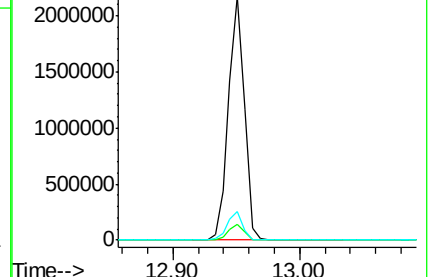
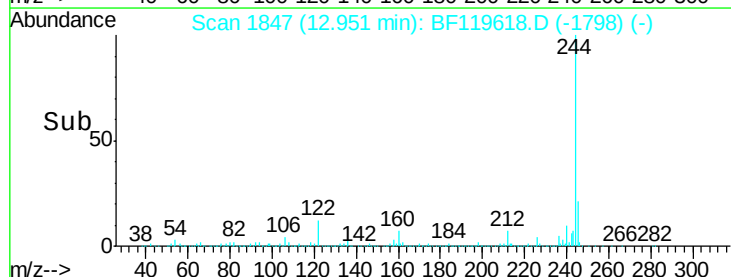
122 11.8 10.3 15.5

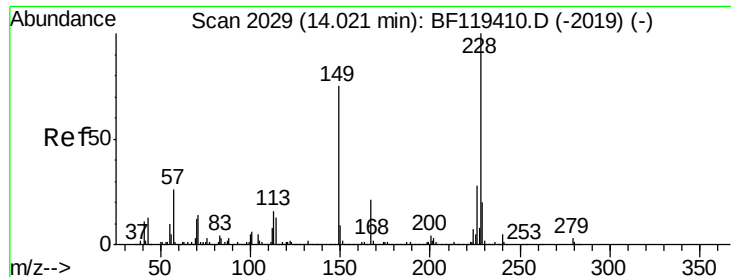


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 5.25 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.02 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

Instrument :

BNA\_F

ClientSampleId :

FK-GF-02-054-A

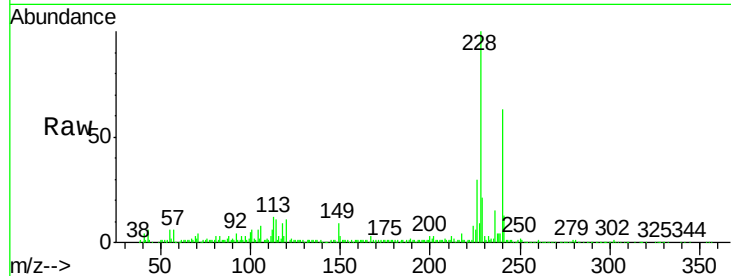
Tgt Ion:228 Resp: 222347

Ion Ratio Lower Upper

228 100

226 30.5 21.8 32.8

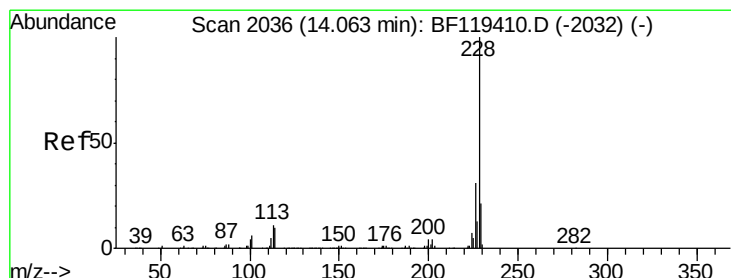
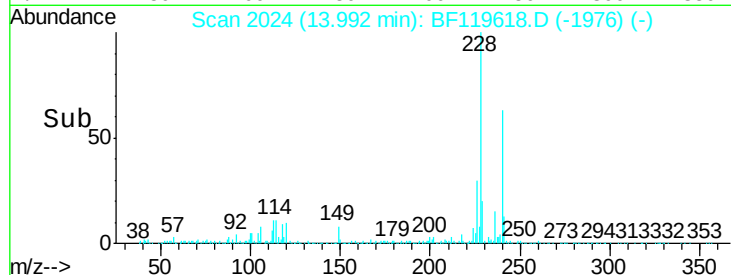
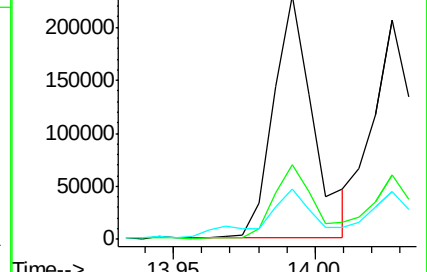
229 20.6 16.2 24.4



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: 4.46 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.02 min

Lab File: BF119618.D

Acq: 28 Mar 2020 15:51

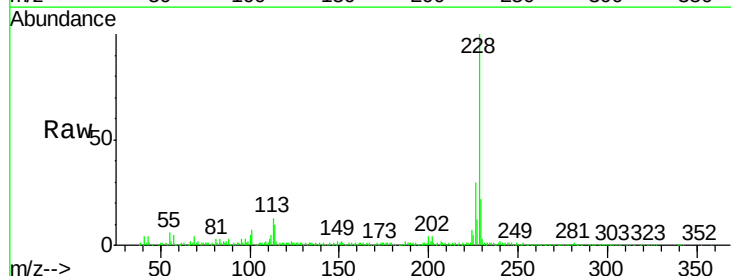
Tgt Ion:228 Resp: 194714

Ion Ratio Lower Upper

228 100

226 29.5 25.4 38.0

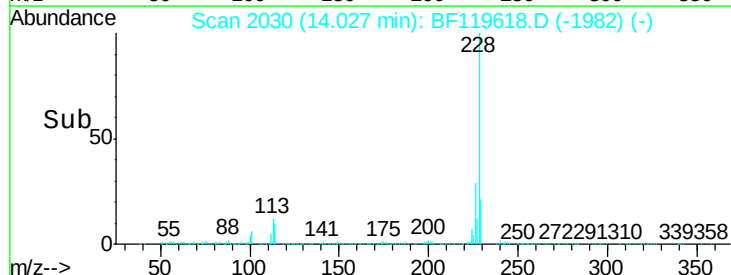
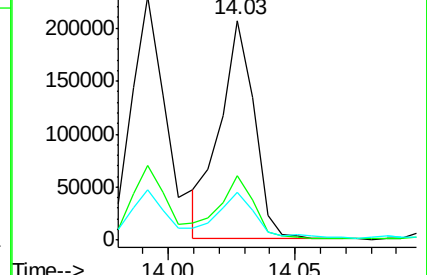
229 21.7 16.6 24.8

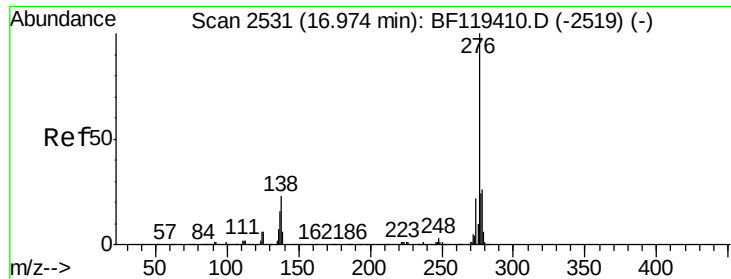


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

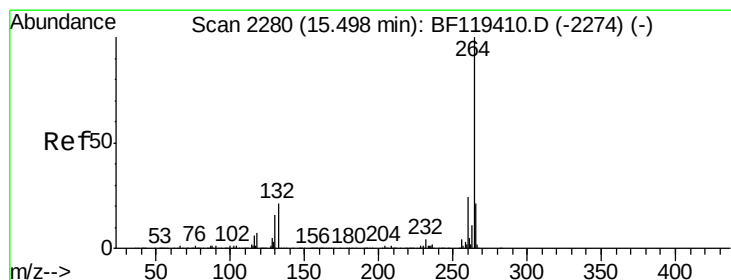
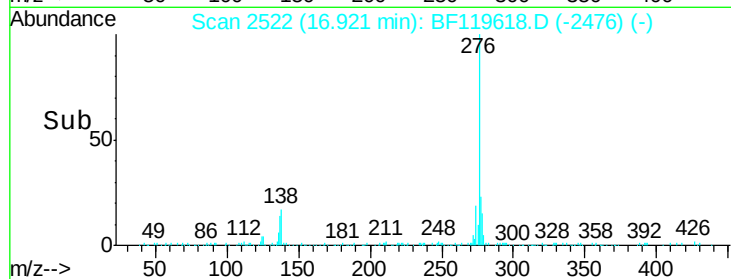
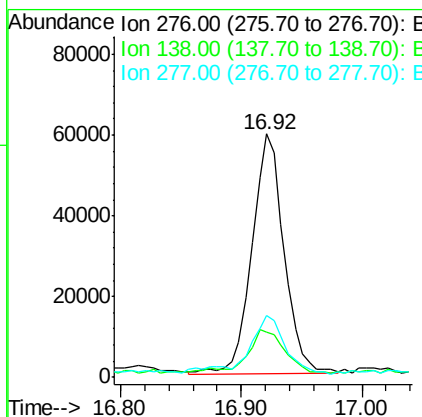
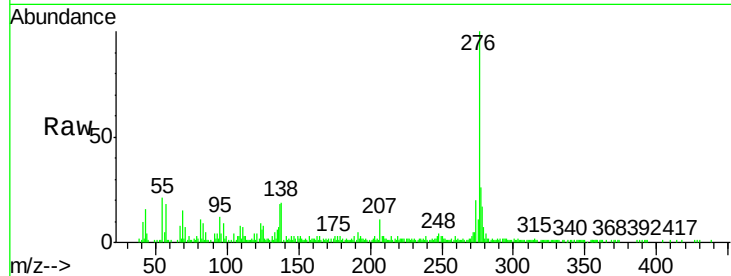




#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.67 ng  
 RT: 16.92 min Scan# 2522  
 Delta R.T. -0.03 min  
 Lab File: BF119618.D  
 Acq: 28 Mar 2020 15:51

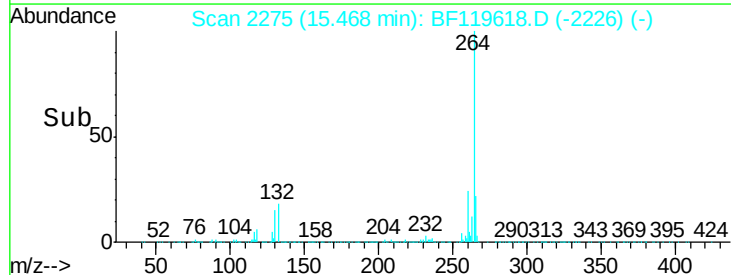
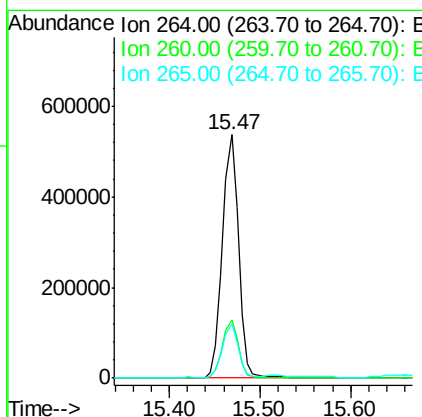
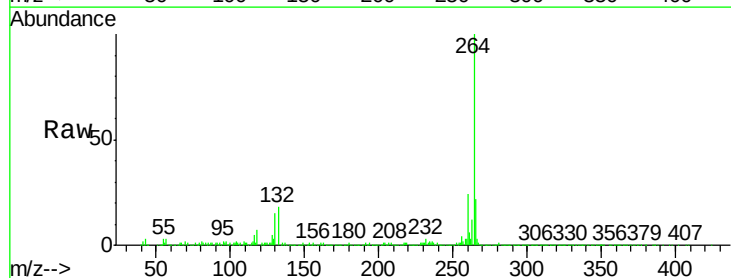
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FK-GF-02-054-A

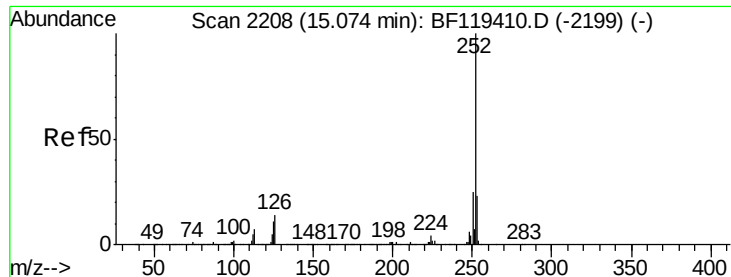
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.5  | 19.6  | 29.4# |
| 277     | 27.6  | 20.0  | 30.0  |



#87  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.47 min Scan# 2275  
 Delta R.T. -0.01 min  
 Lab File: BF119618.D  
 Acq: 28 Mar 2020 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 18.7  | 28.1  |
| 265     | 22.3  | 17.7  | 26.5  |

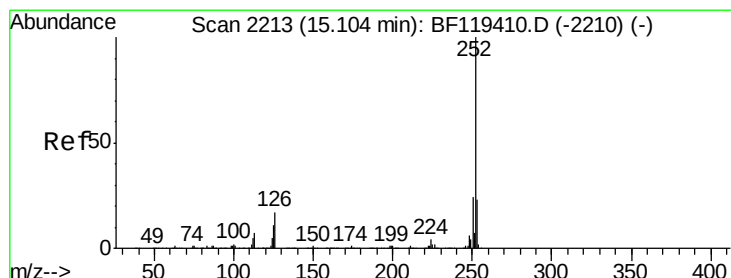
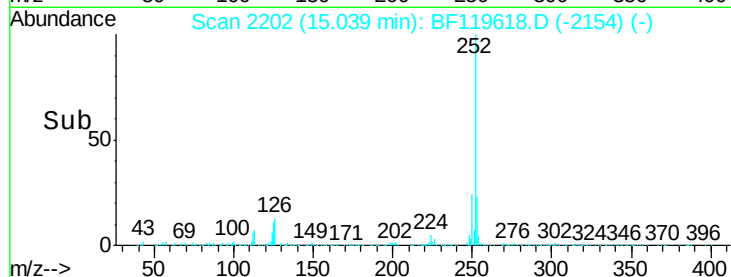
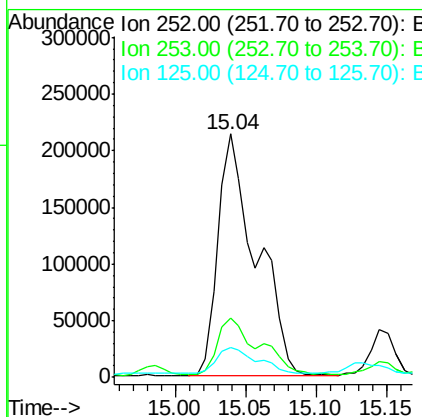
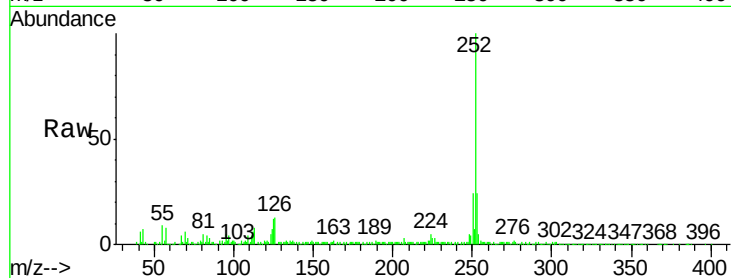




#88  
Benzo(b)fluoranthene  
Concen: 9.26 ng  
RT: 15.04 min Scan# 2202  
Delta R.T. -0.02 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

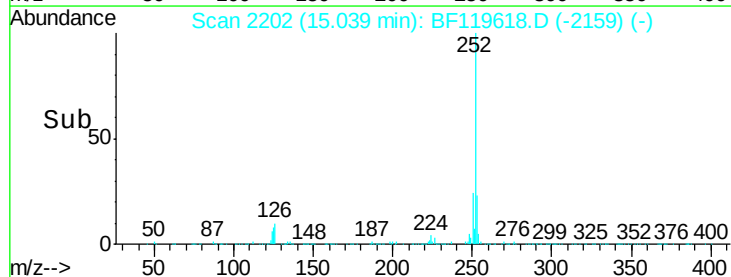
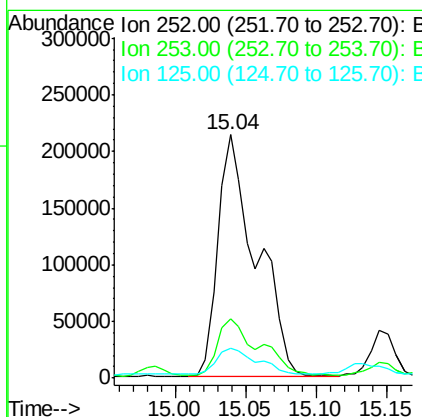
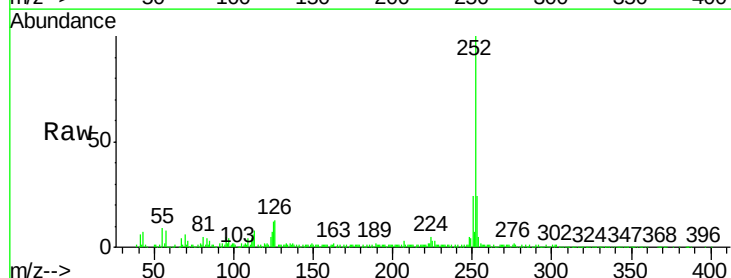
Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-054-A

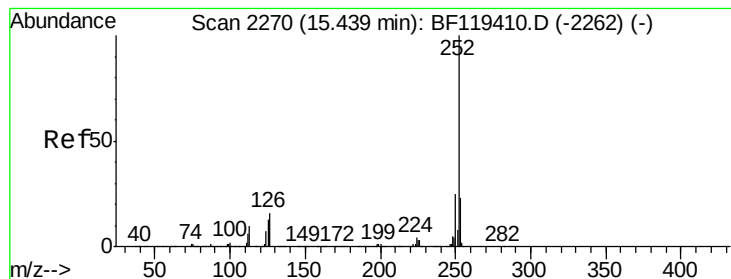
Tgt Ion: 252 Resp: 406410  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.4 26.0  
125 12.5 7.9 11.9#



#89  
Benzo(k)fluoranthene  
Concen: 9.73 ng  
RT: 15.04 min Scan# 2202  
Delta R.T. -0.05 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

Tgt Ion: 252 Resp: 406410  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.8 26.6  
125 12.5 8.4 12.6

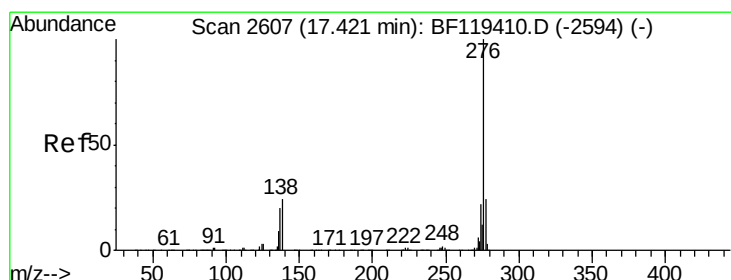
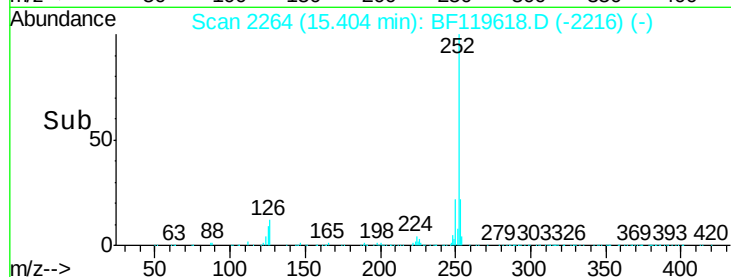
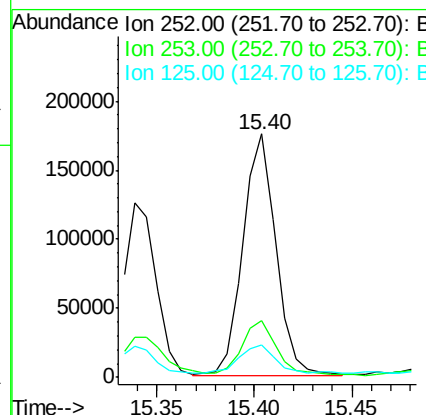
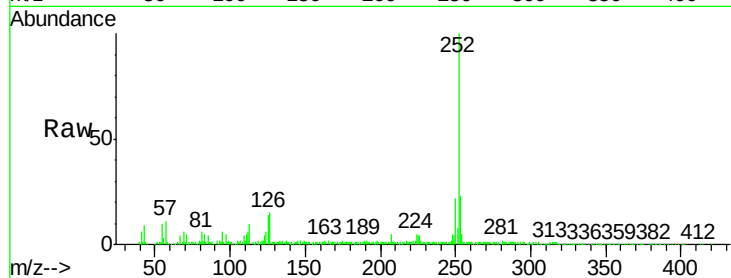




#90  
Benzo(a)pyrene  
Concen: 5.13 ng  
RT: 15.40 min Scan# 2264  
Delta R.T. -0.02 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

Instrument :  
BNA\_F  
ClientSampleId :  
FK-GF-02-054-A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.2  | 27.2  |
| 125     | 13.5  | 9.4   | 14.2  |



#92  
Benzo(g,h,i)perylene  
Concen: 2.77 ng  
RT: 17.36 min Scan# 2597  
Delta R.T. -0.04 min  
Lab File: BF119618.D  
Acq: 28 Mar 2020 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.9  | 18.4  | 27.6  |
| 138     | 21.5  | 15.4  | 23.0  |

