

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF033120\  
 Data File : BF119662.D  
 Acq On : 31 Mar 2020 19:55  
 Operator : MA/SJ  
 Sample : L2055-07  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-9-(1-3)

Quant Time: Apr 01 00:04:21 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF031820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 31 14:11:44 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 290487   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 1048737  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.88  | 164  | 466761   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.37 | 188  | 716641   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.02 | 240  | 529460   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.49 | 264  | 457289   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.45  | 112  | 1542634  | 84.54 | ng    | 0.01     |
| 7) Phenol-d6                | 6.46  | 99   | 1944893  | 83.44 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 1142687  | 59.22 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 362650   | 75.31 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 1981486  | 62.89 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.96 | 244  | 1530329  | 56.63 | ng    | 0.00     |

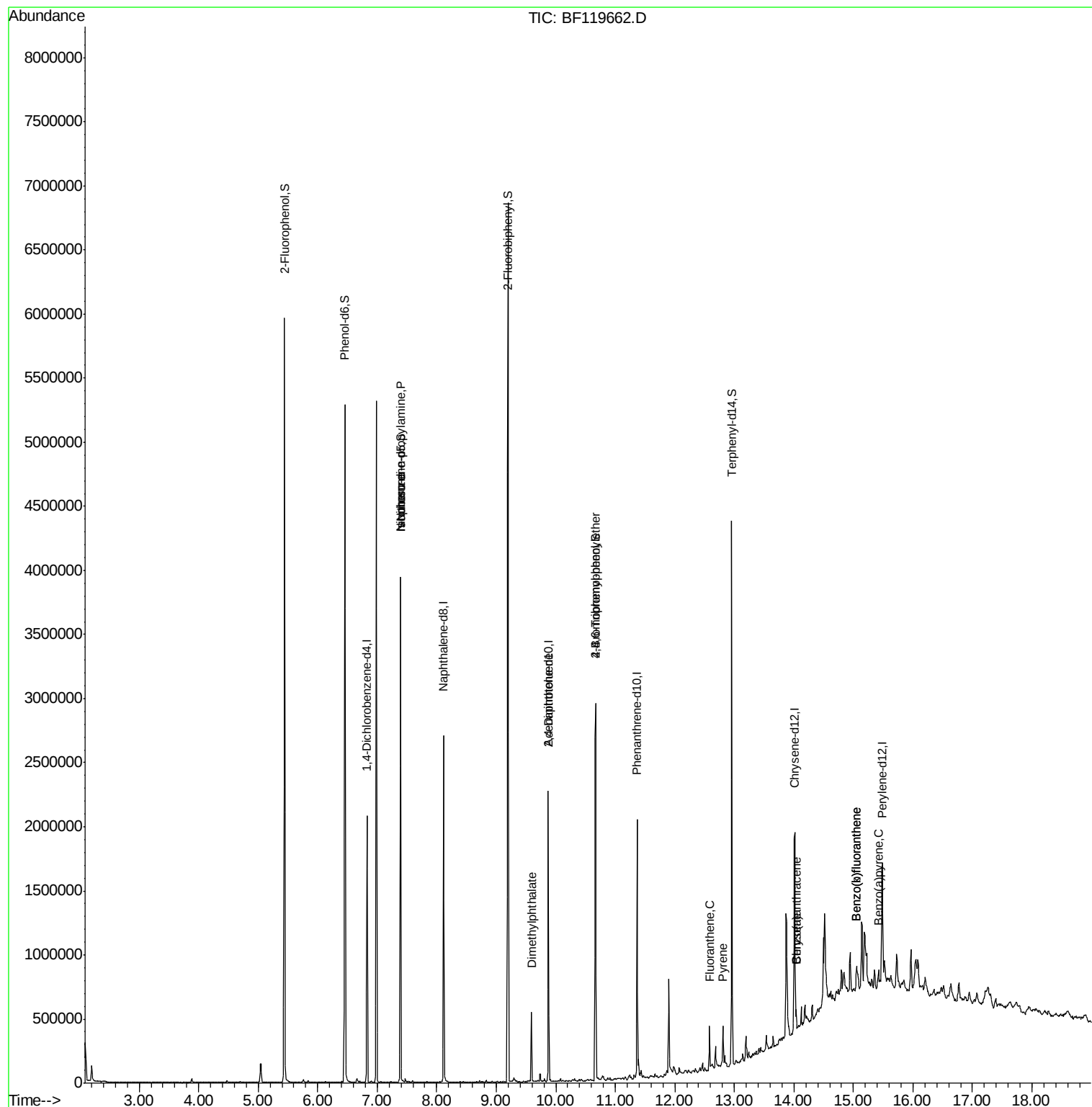
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 146040   | 10.39 | ng    | # 74   |
| 25) Isophorone                 | 7.39  | 82   | 1135633  | 29.01 | ng    | # 65   |
| 50) Dimethylphthalate          | 9.59  | 163  | 213798   | 6.45  | ng    | 98     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 58563    | 6.54  | ng    | # 20   |
| 67) 4-Bromophenyl-phenylether  | 10.67 | 248  | 22450    | 2.75  | ng    | # 1    |
| 75) Fluoranthene               | 12.58 | 202  | 129519   | 3.22  | ng    | 99     |
| 78) Pyrene                     | 12.81 | 202  | 125216   | 2.88  | ng    | 96     |
| 81) Benzo(a)anthracene         | 14.04 | 228  | 76457    | 2.22  | ng    | 95     |
| 83) Chrysene                   | 14.04 | 228  | 76457    | 2.15  | ng    | 96     |
| 88) Benzo(b)fluoranthene       | 15.05 | 252  | 136866   | 4.48  | ng    | # 86   |
| 89) Benzo(k)fluoranthene       | 15.05 | 252  | 136866   | 4.71  | ng    | # 87   |
| 90) Benzo(a)pyrene             | 15.42 | 252  | 70545    | 2.54  | ng    | # 95   |

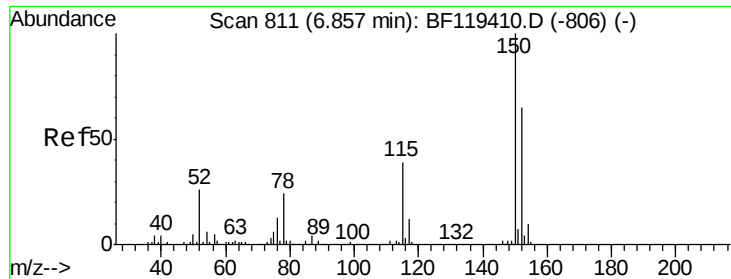
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF033120\  
Data File : BF119662.D  
Acq On : 31 Mar 2020 19:55  
Operator : MA/SJ  
Sample : L2055-07  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9-(1-3)

Quant Time: Apr 01 00:04:21 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Mar 31 14:11:44 2020  
Response via : Initial Calibration



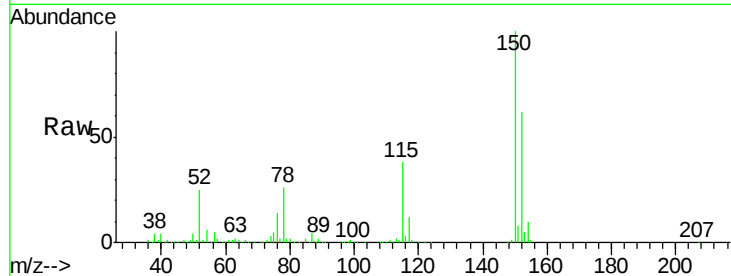


#1

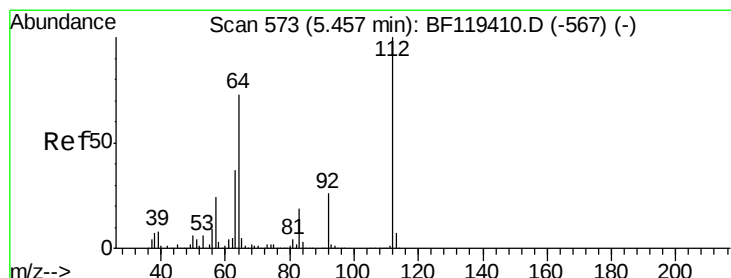
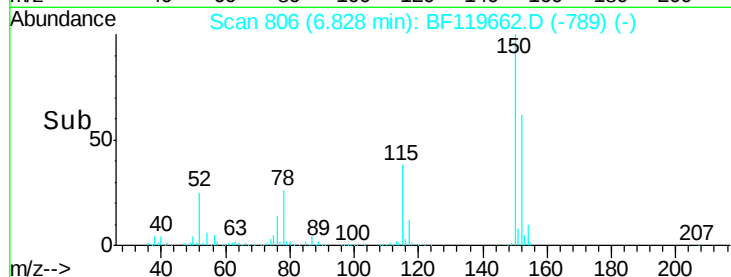
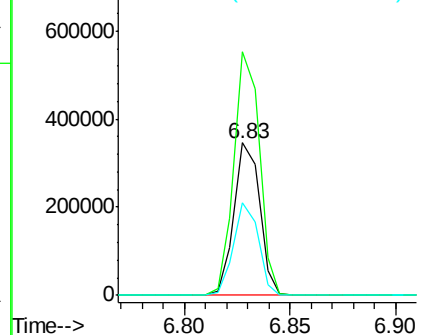
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.83 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9-(1-3)

Tgt Ion:152 Resp: 290487  
Ion Ratio Lower Upper  
152 100  
150 160.1 124.5 186.7  
115 60.9 49.6 74.4



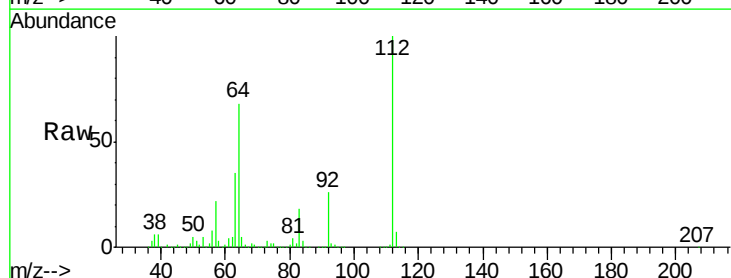
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



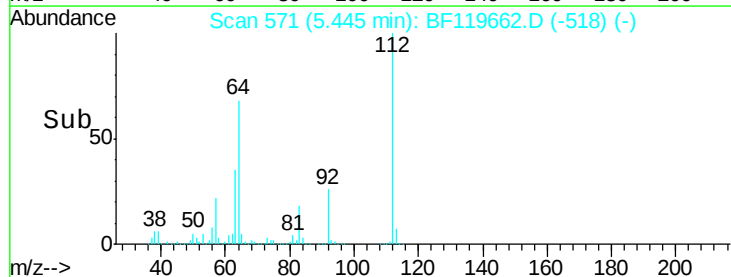
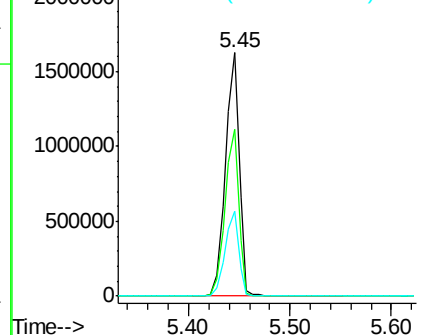
#5

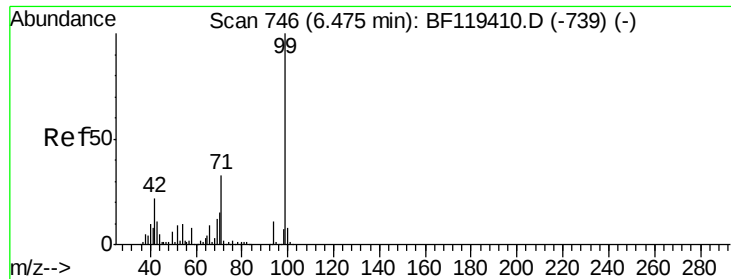
2-Fluorophenol  
Concen: 84.54 ng  
RT: 5.45 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

Tgt Ion:112 Resp: 1542634  
Ion Ratio Lower Upper  
112 100  
64 68.4 56.7 85.1  
63 34.7 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: 83.44 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.00 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

Instrument :

BNA\_F

ClientSampleId :

SB-9-(1-3)

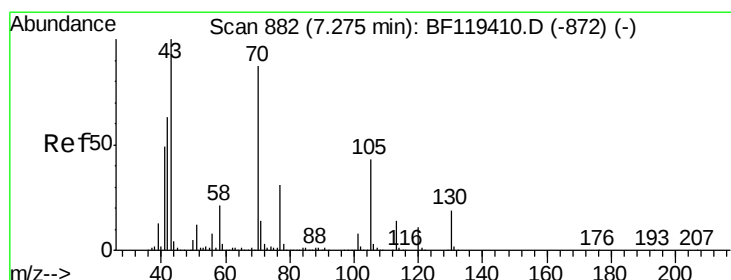
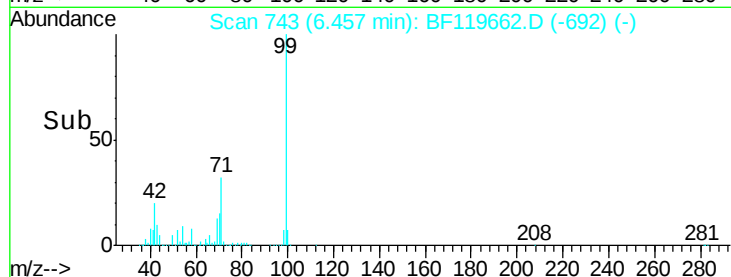
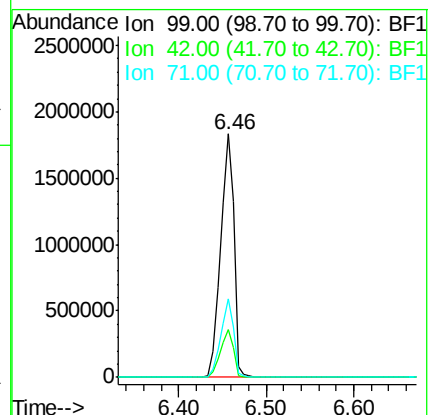
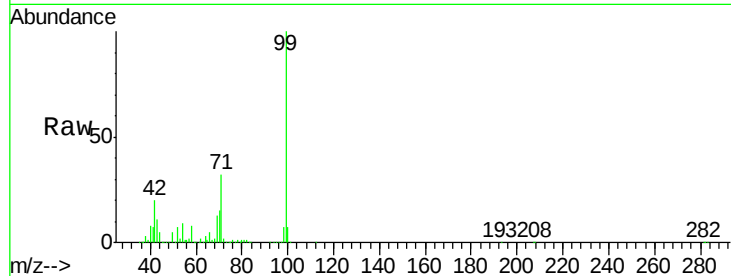
Tgt Ion: 99 Resp: 1944893

Ion Ratio Lower Upper

99 100

42 19.7 16.6 24.8

71 32.4 26.4 39.6



#19

n-Nitroso-di-n-propylamine

Concen: 10.39 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.14 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

Tgt Ion: 70 Resp: 146040

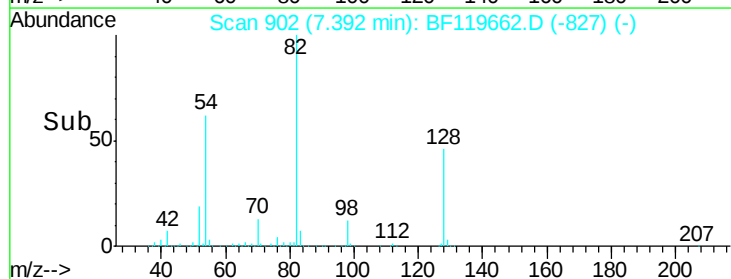
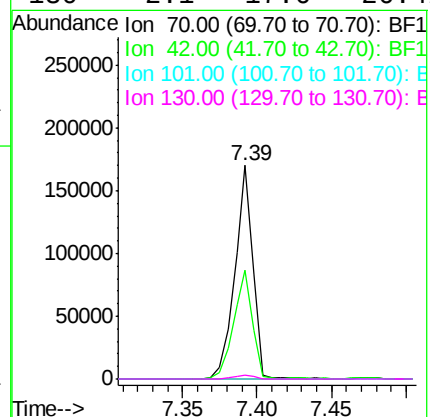
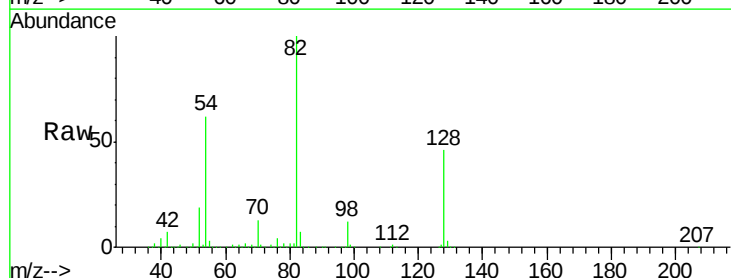
Ion Ratio Lower Upper

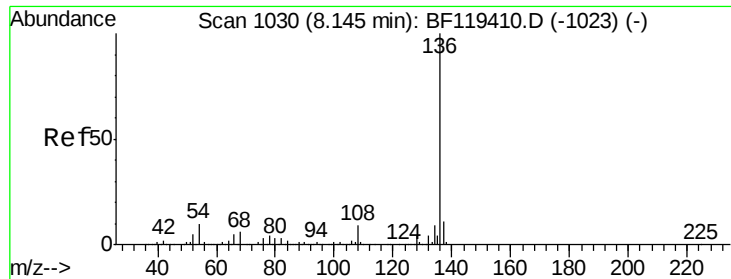
70 100

42 51.0 54.5 81.7#

101 0.0 7.6 11.4#

130 2.1 17.6 26.4#

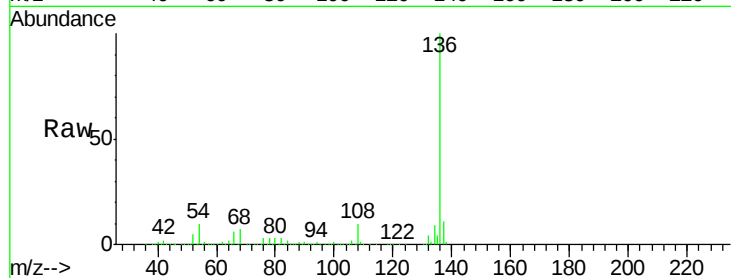




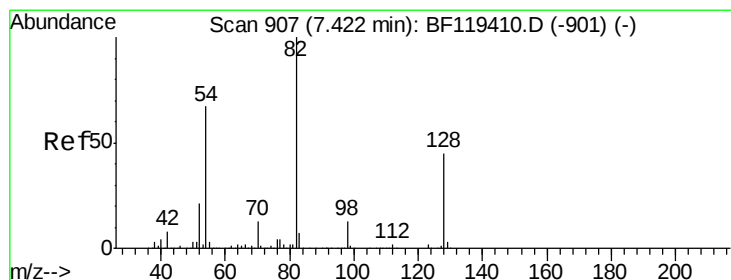
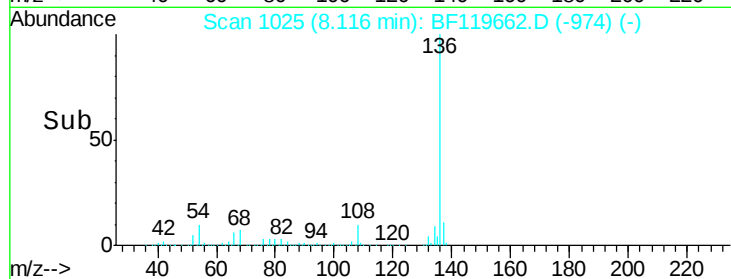
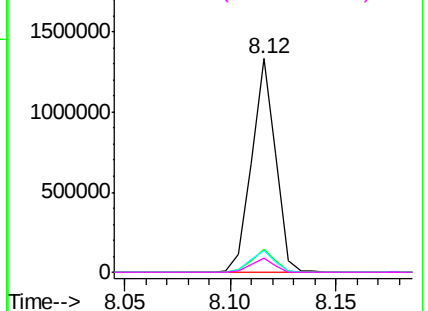
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.00 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9-(1-3)

| Tgt Ion: | 136   | Resp: | 1048737 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 136      | 100   |       |         |
| 137      | 11.0  | 8.7   | 13.1    |
| 54       | 10.5  | 9.1   | 13.7    |
| 68       | 6.5   | 4.6   | 6.8     |

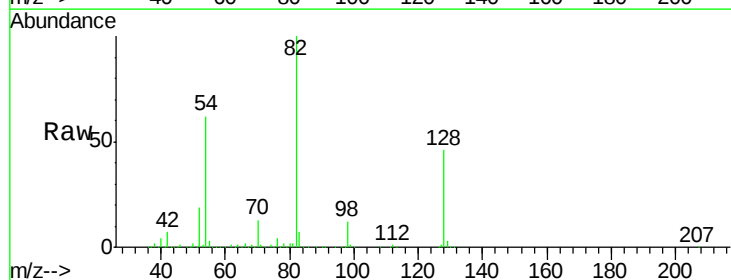


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

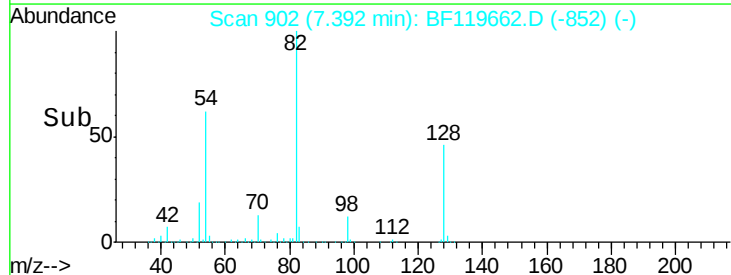
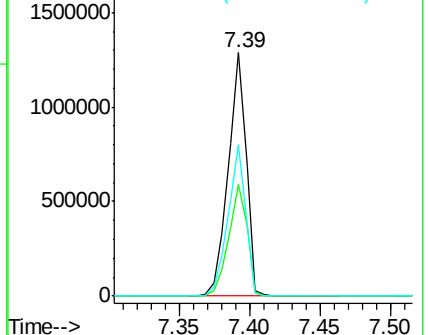


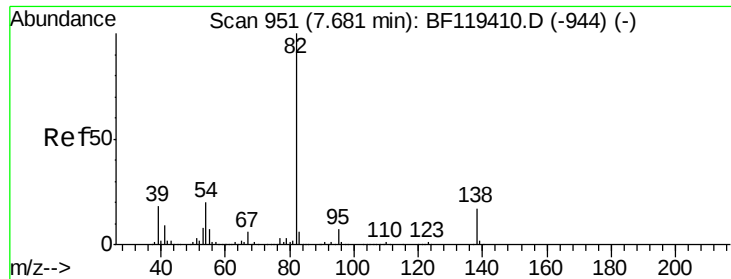
#23  
Nitrobenzene-d5  
Concen: 59.22 ng  
RT: 7.39 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

| Tgt Ion: | 82    | Resp: | 1142687 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 46.0  | 36.3  | 54.5    |
| 54       | 62.1  | 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: 29.01 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.26 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

Instrument :

BNA\_F

ClientSampleId :

SB-9-(1-3)

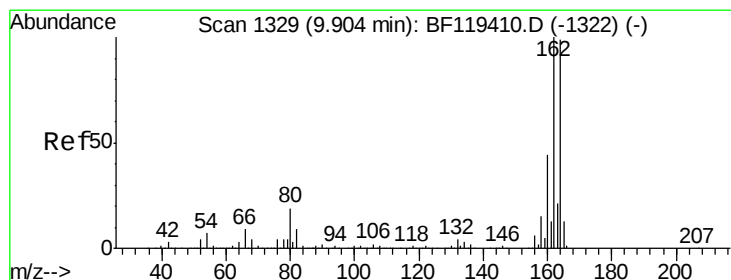
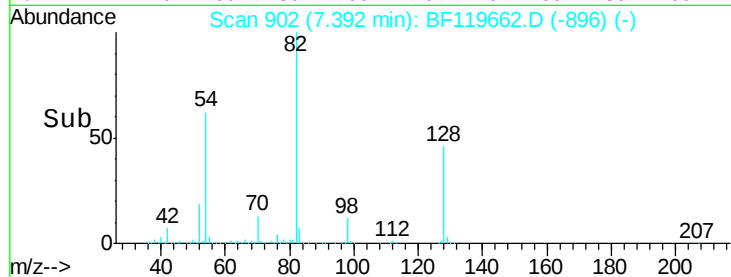
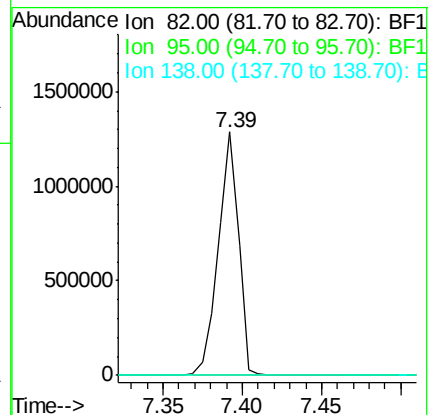
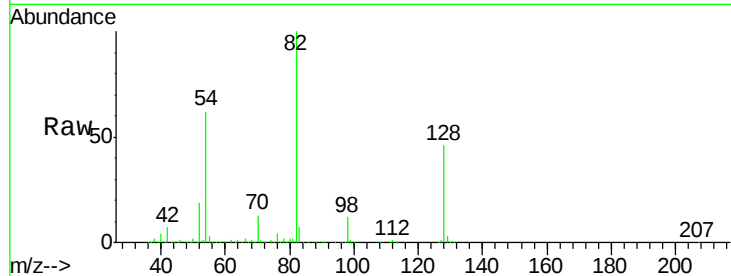
Tgt Ion: 82 Resp: 1135633

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: 9.88 min Scan# 1325

Delta R.T. -0.00 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

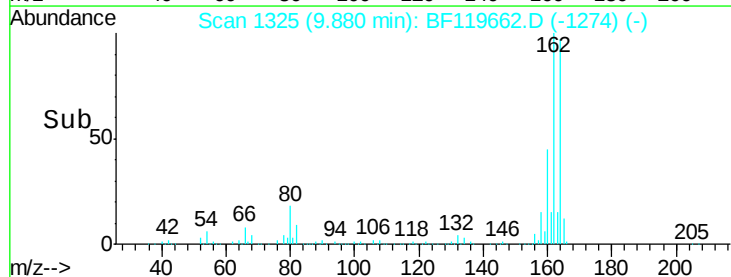
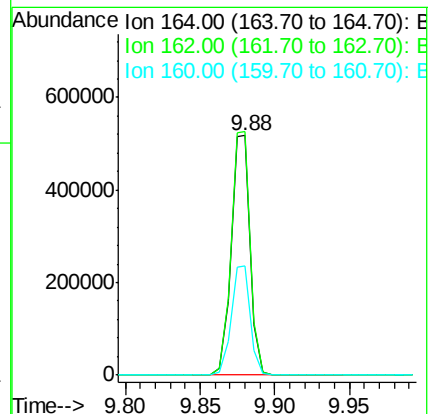
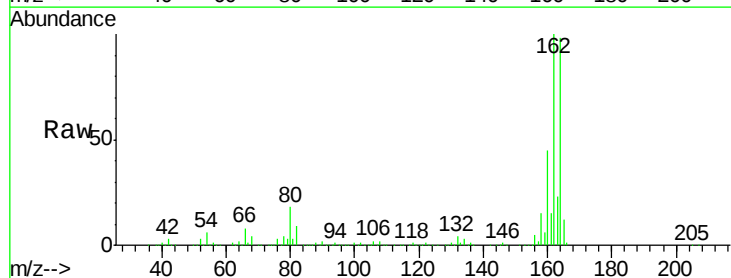
Tgt Ion: 164 Resp: 466761

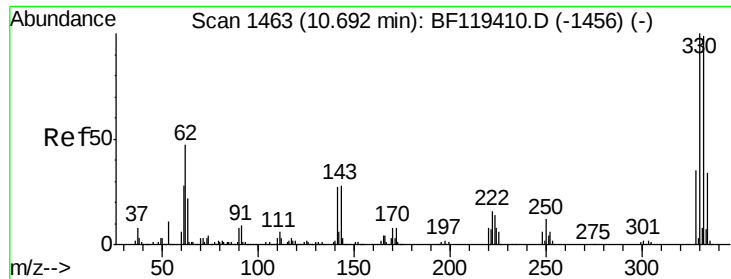
Ion Ratio Lower Upper

164 100

162 101.8 80.6 121.0

160 45.6 35.7 53.5





#42

2,4,6-Tribromophenol

Concen: 75.31 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

Instrument :

BNA\_F

ClientSampleId :

SB-9-(1-3)

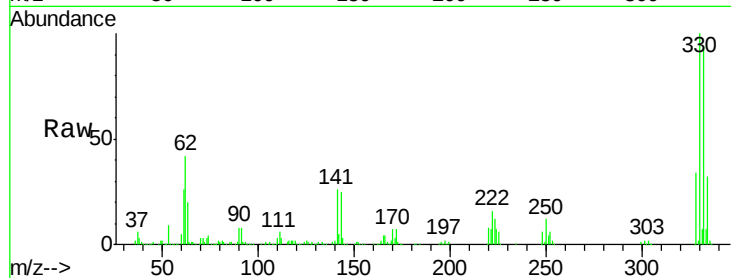
Tgt Ion:330 Resp: 362650

Ion Ratio Lower Upper

330 100

332 94.0 75.7 113.5

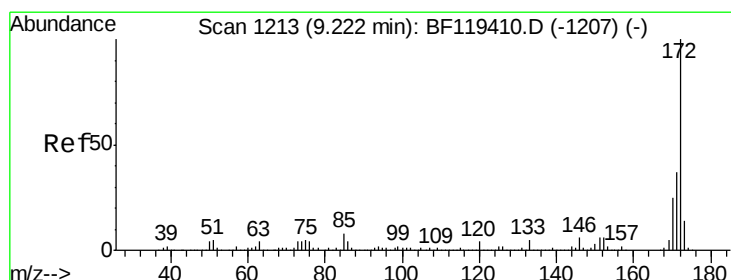
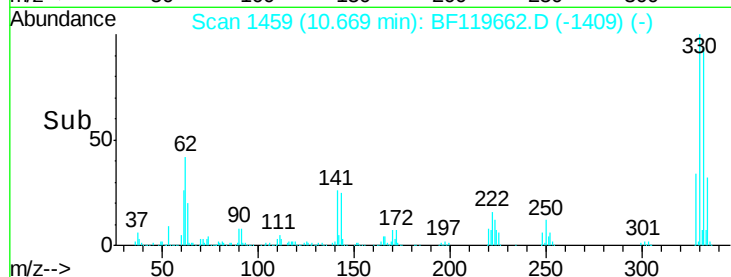
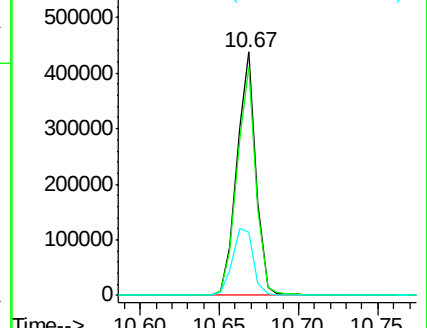
141 30.4 25.4 38.0



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: 62.89 ng

RT: 9.20 min Scan# 1209

Delta R.T. -0.00 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

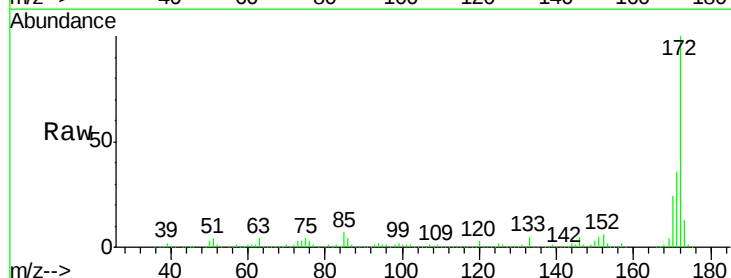
Tgt Ion:172 Resp: 1981486

Ion Ratio Lower Upper

172 100

171 35.6 29.6 44.4

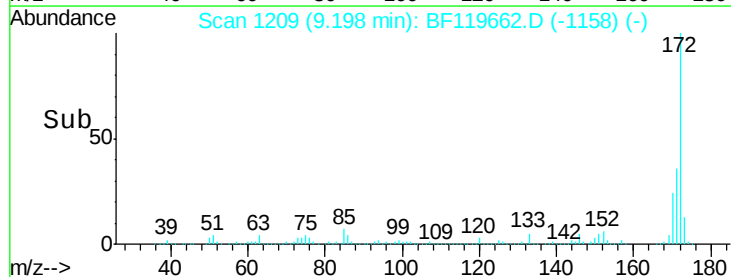
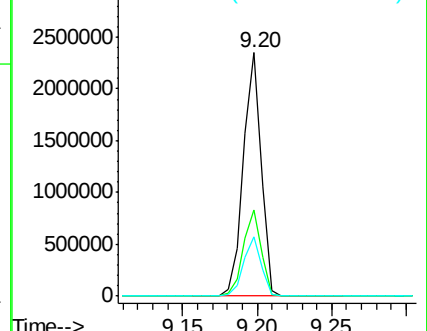
170 24.4 20.2 30.2

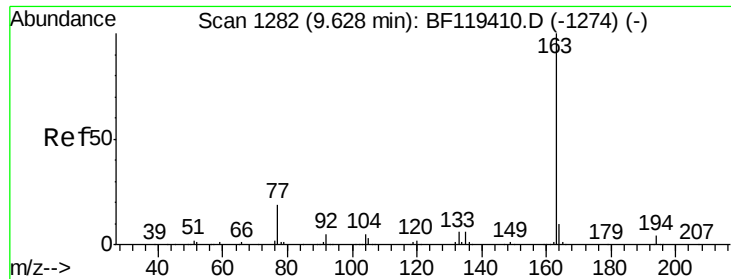


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

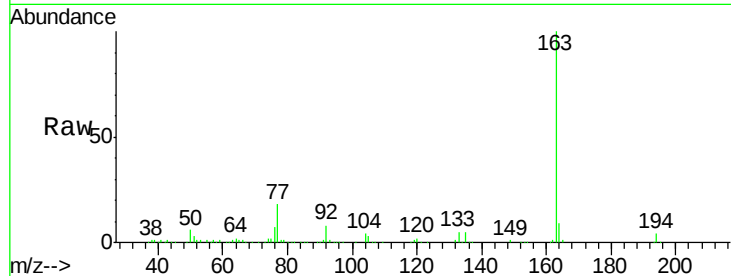




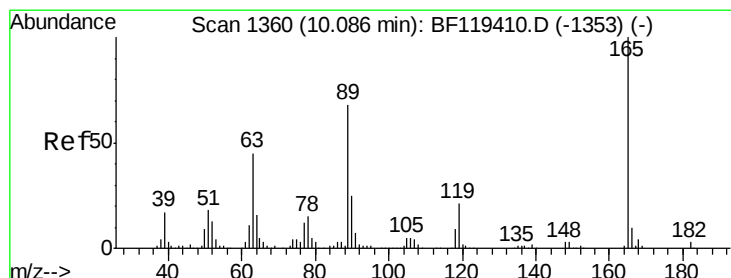
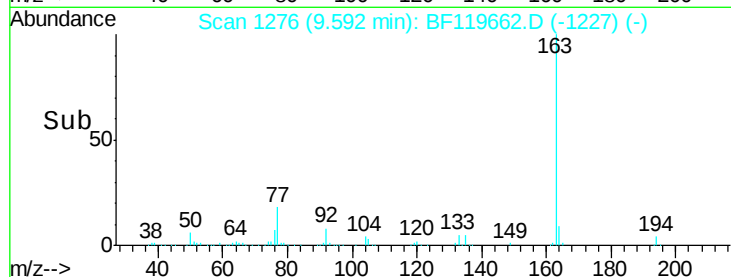
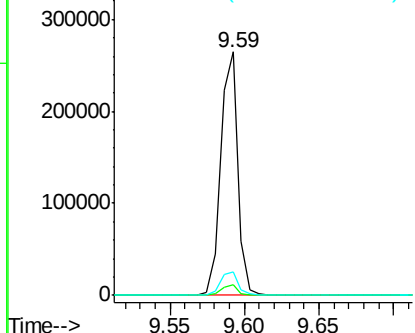
#50  
Dimethylphthalate  
Concen: 6.45 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.01 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9-(1-3)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.1   | 4.7   |
| 164     | 9.5   | 8.2   | 12.2  |

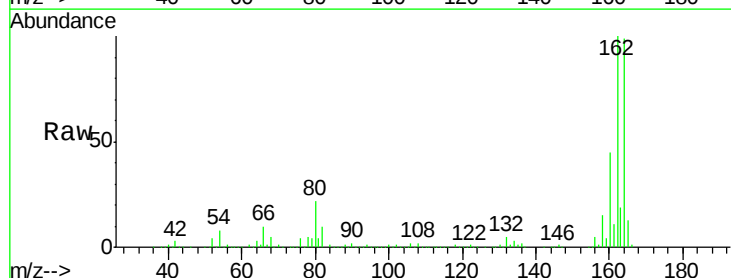


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

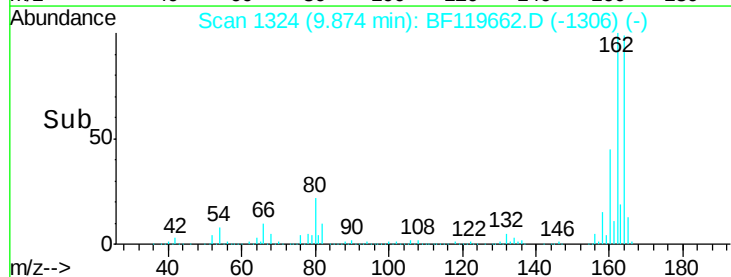
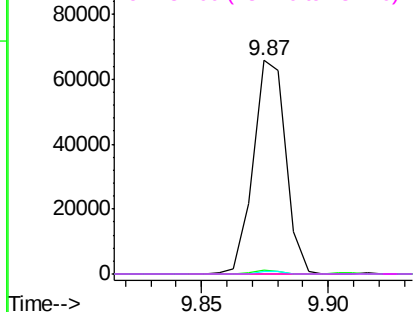


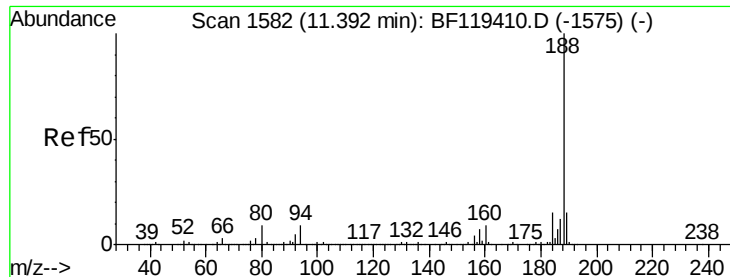
#57  
2,4-Dinitrotoluene  
Concen: 6.54 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. -0.19 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 42.6  | 64.0# |
| 89      | 0.9   | 61.0  | 91.4# |
| 182     | 0.0   | 2.2   | 3.2#  |



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

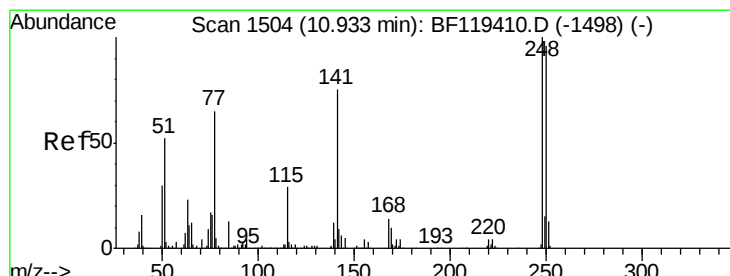
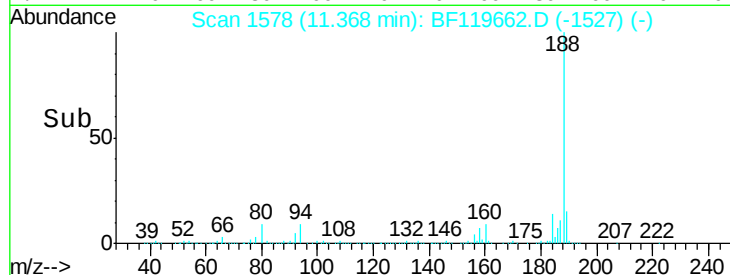
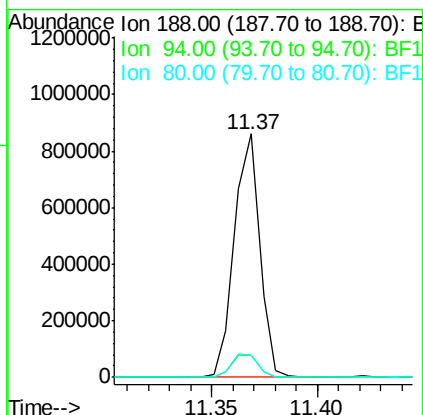
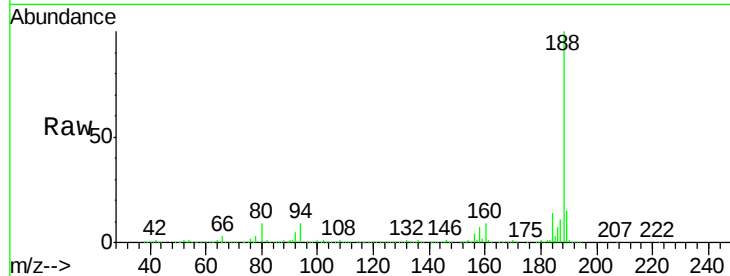




#64  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.37 min Scan# 1578  
 Delta R.T. -0.00 min  
 Lab File: BF119662.D  
 Acq: 31 Mar 2020 19:55

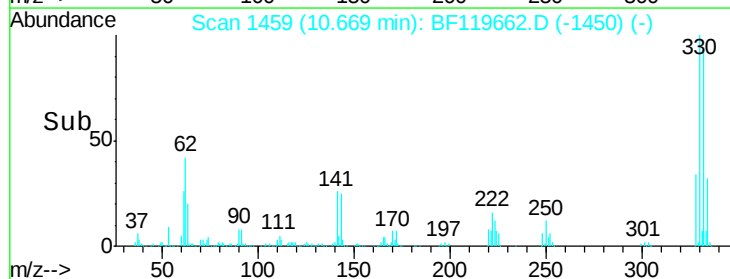
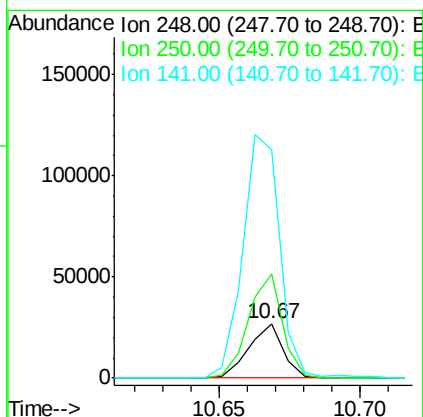
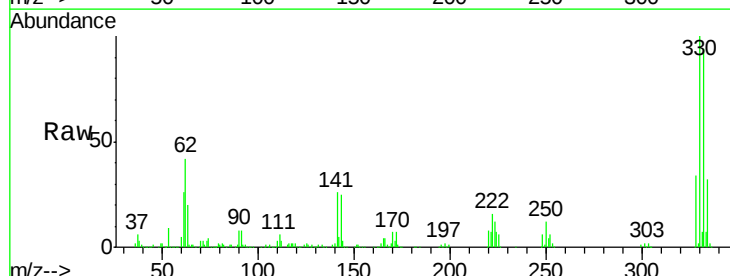
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-9-(1-3)

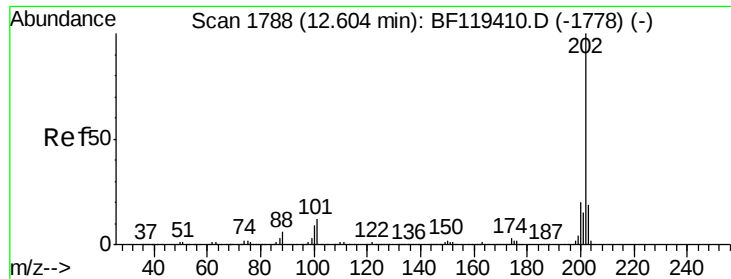
Tgt Ion:188 Resp: 716641  
 Ion Ratio Lower Upper  
 188 100  
 94 8.9 7.5 11.3  
 80 9.3 9.0 13.4



#67  
 4-Bromophenyl-phenylether  
 Concen: 2.75 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.25 min  
 Lab File: BF119662.D  
 Acq: 31 Mar 2020 19:55

Tgt Ion:248 Resp: 22450  
 Ion Ratio Lower Upper  
 248 100  
 250 191.1 77.3 115.9#  
 141 419.1 58.6 87.8#





#75

Fluoranthene

Concen: 3.22 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

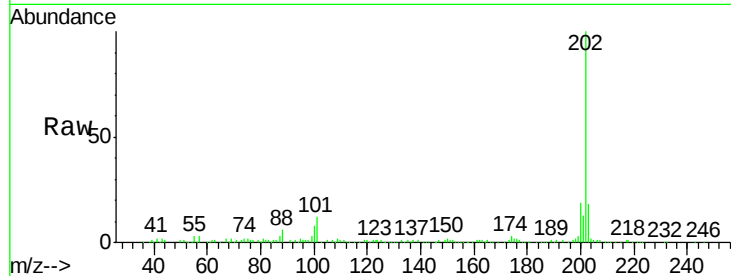
Instrument :

BNA\_F

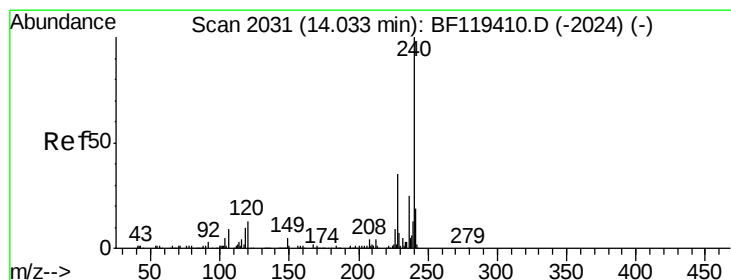
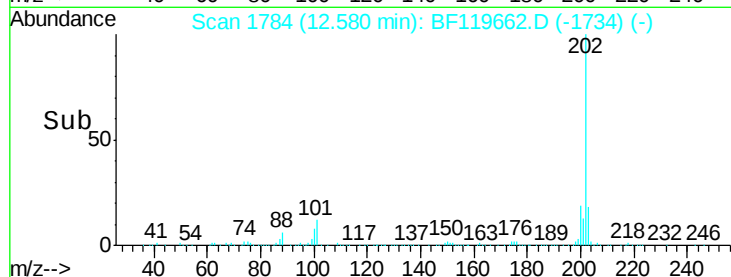
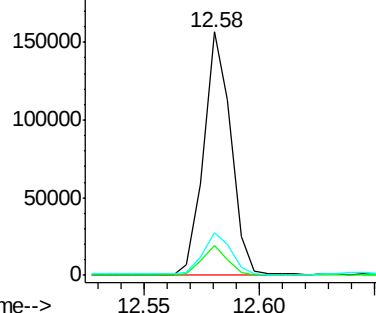
ClientSampleId :

SB-9-(1-3)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 129519 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 12.2  | 0.0   | 32.2   |
| 203      | 17.8  | 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

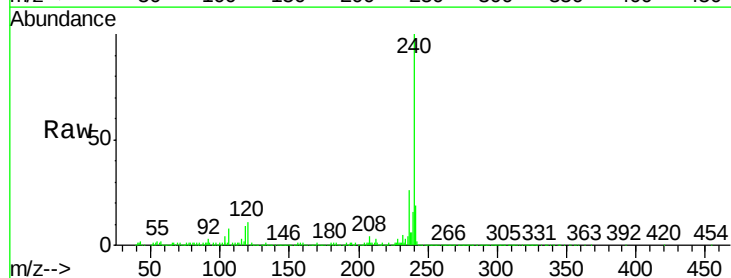
RT: 14.02 min Scan# 2028

Delta R.T. -0.00 min

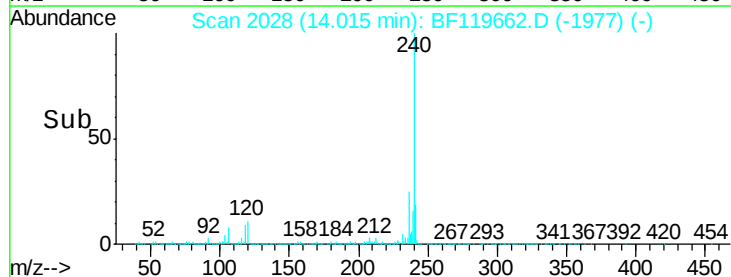
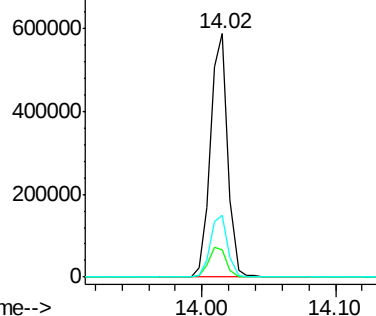
Lab File: BF119662.D

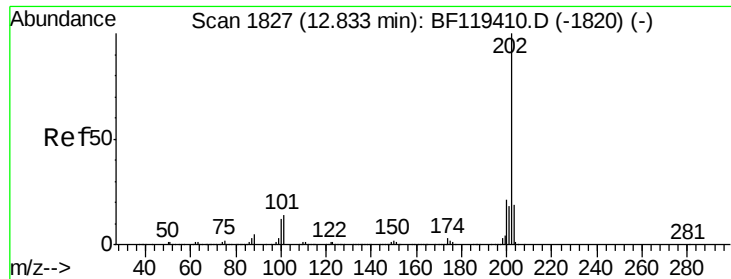
Acq: 31 Mar 2020 19:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 529460 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 11.2  | 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

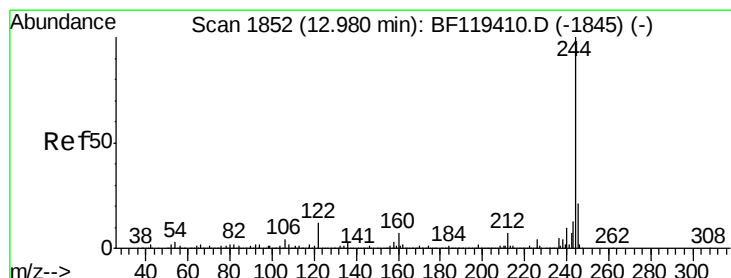
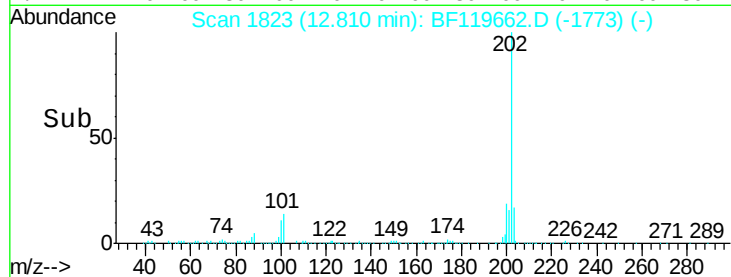
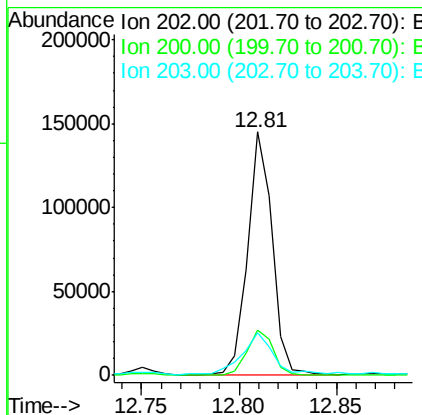
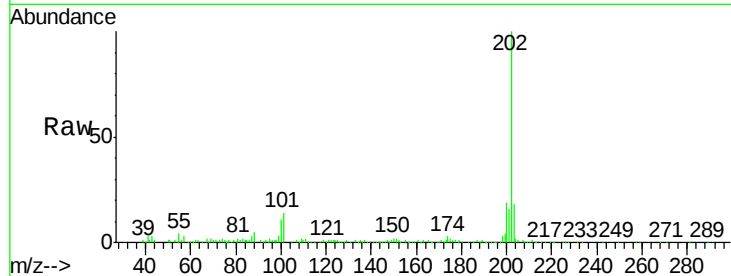




#78  
 Pyrene  
 Concen: 2.88 ng  
 RT: 12.81 min Scan# 1823  
 Delta R.T. -0.01 min  
 Lab File: BF119662.D  
 Acq: 31 Mar 2020 19:55

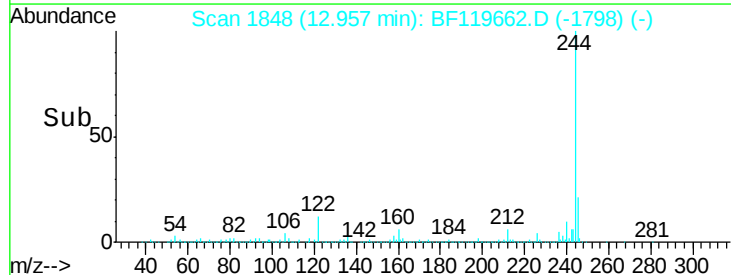
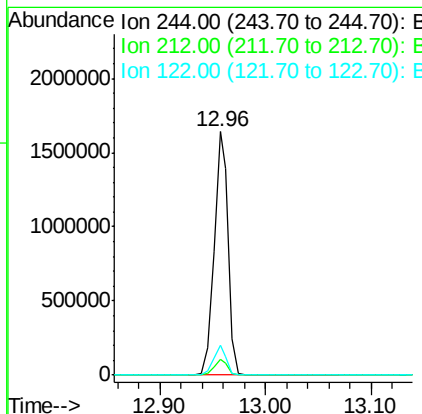
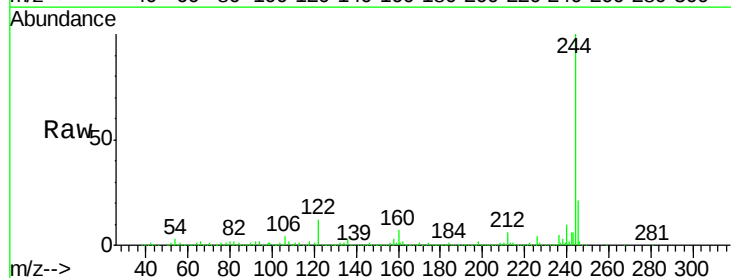
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-9-(1-3)

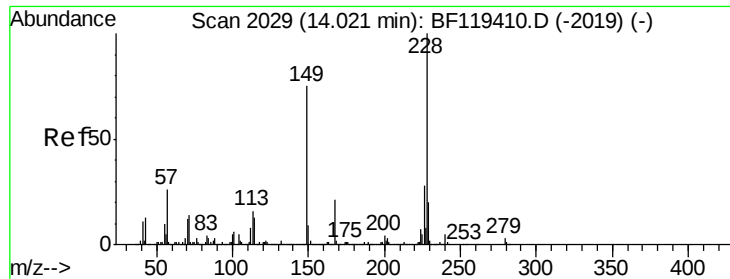
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 18.6  | 16.8  | 25.2  |
| 203     | 17.8  | 15.1  | 22.7  |



#79  
 Terphenyl-d14  
 Concen: 56.63 ng  
 RT: 12.96 min Scan# 1848  
 Delta R.T. -0.01 min  
 Lab File: BF119662.D  
 Acq: 31 Mar 2020 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.4   | 5.8   | 8.8   |
| 122     | 12.1  | 10.3  | 15.5  |





#81

Benzo(a)anthracene

Concen: 2.22 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.03 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

Instrument :

BNA\_F

ClientSampleId :

SB-9-(1-3)

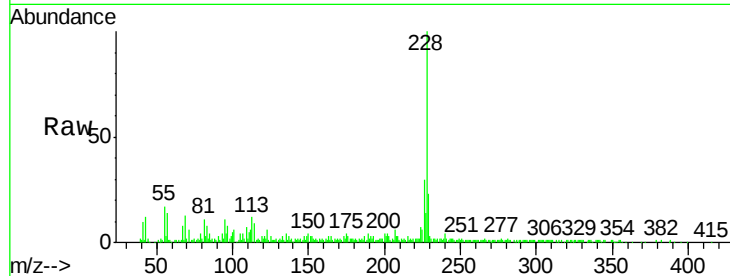
Tgt Ion:228 Resp: 76457

Ion Ratio Lower Upper

228 100

226 30.0 21.8 32.8

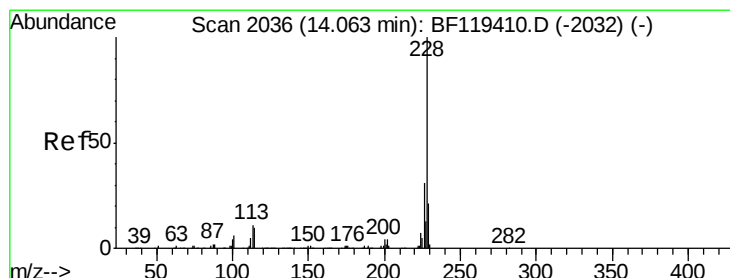
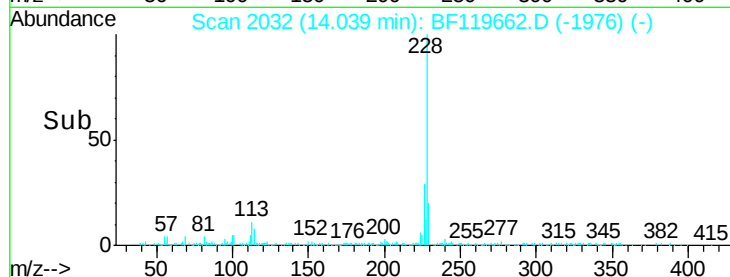
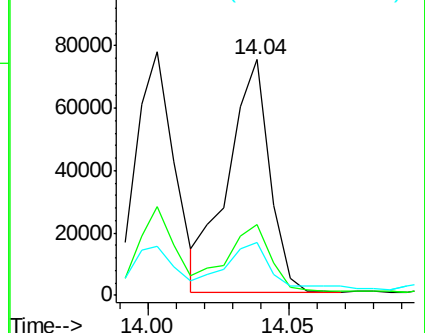
229 22.6 16.2 24.4



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: 2.15 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF119662.D

Acq: 31 Mar 2020 19:55

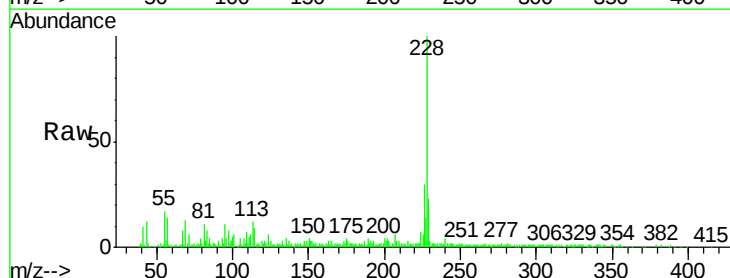
Tgt Ion:228 Resp: 76457

Ion Ratio Lower Upper

228 100

226 30.0 25.4 38.0

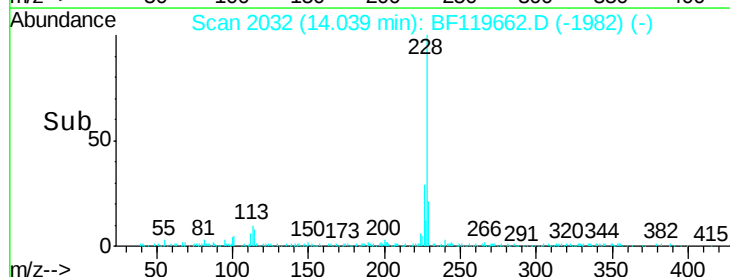
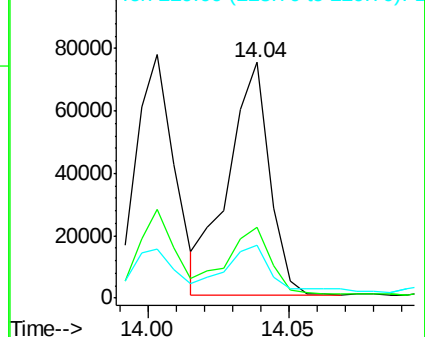
229 22.6 16.6 24.8

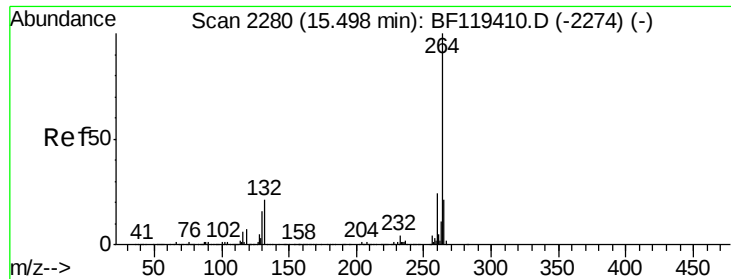


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

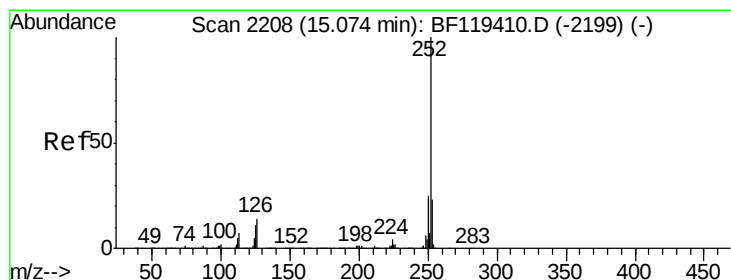
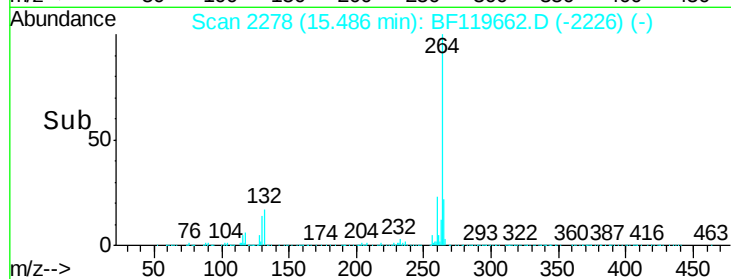
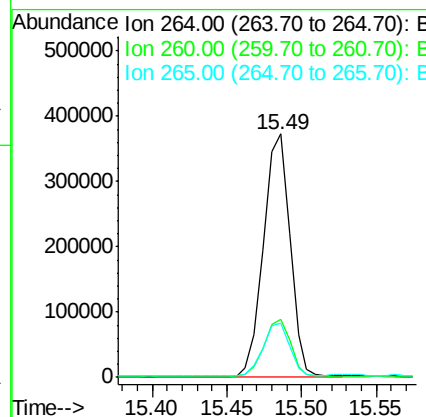
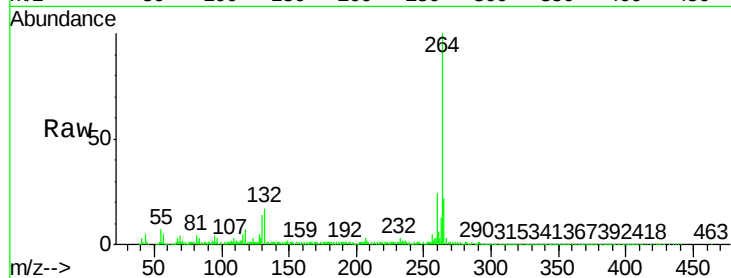




#87  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.49 min Scan# 2278  
Delta R.T. 0.01 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

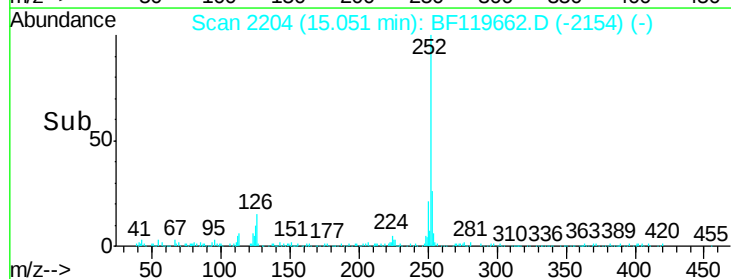
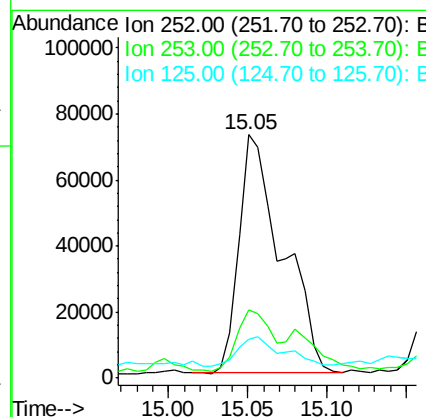
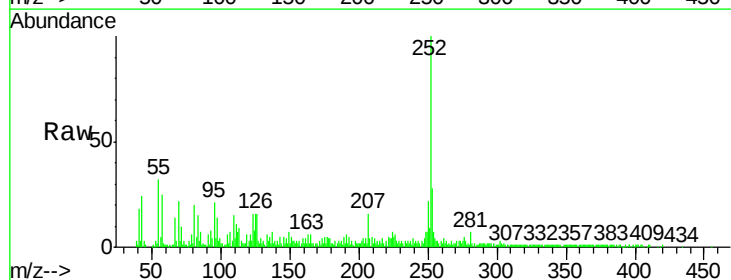
Instrument :  
BNA\_F  
ClientSampleId :  
SB-9-(1-3)

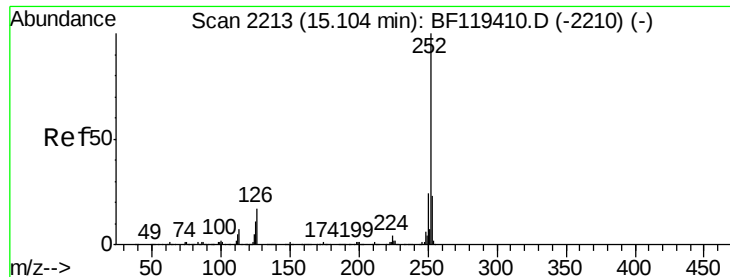
Tgt Ion:264 Resp: 457289  
Ion Ratio Lower Upper  
264 100  
260 23.6 18.7 28.1  
265 22.4 17.7 26.5



#88  
Benzo(b)fluoranthene  
Concen: 4.48 ng  
RT: 15.05 min Scan# 2204  
Delta R.T. -0.01 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

Tgt Ion:252 Resp: 136866  
Ion Ratio Lower Upper  
252 100  
253 27.9 17.4 26.0#  
125 15.9 7.9 11.9#

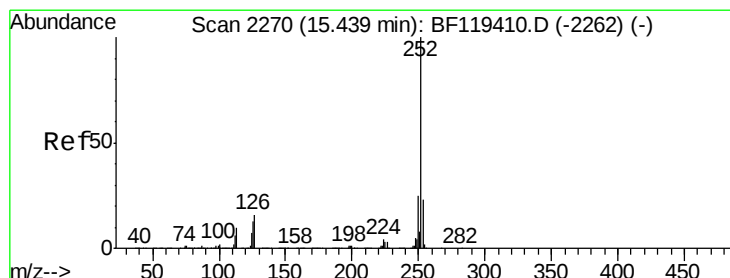
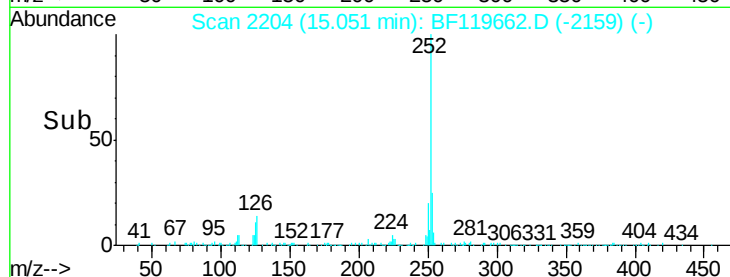
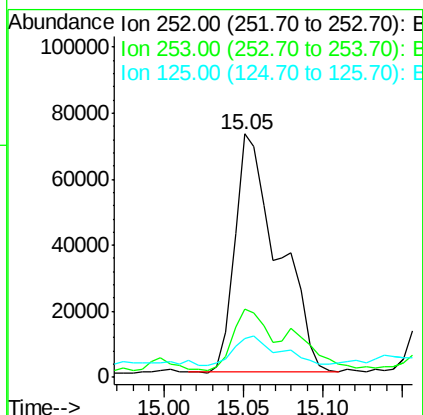
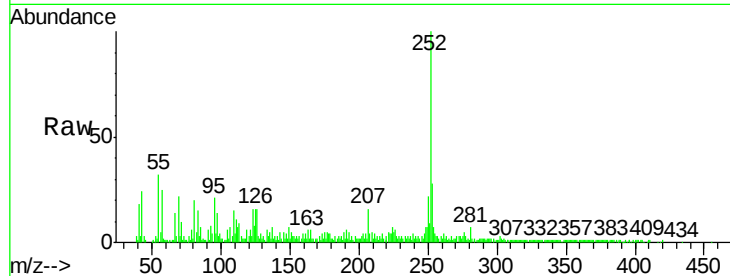




#89  
Benzo(k)fluoranthene  
Concen: 4.71 ng  
RT: 15.05 min Scan# 2204  
Delta R.T. -0.04 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

Instrument :  
BNA\_F  
ClientSampleId :  
SB-9-(1-3)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.9  | 17.8  | 26.6# |
| 125     | 15.9  | 8.4   | 12.6# |



#90  
Benzo(a)pyrene  
Concen: 2.54 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. -0.00 min  
Lab File: BF119662.D  
Acq: 31 Mar 2020 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.2  | 27.2  |
| 125     | 16.8  | 9.4   | 14.2# |

