

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031119\  
 Data File : BF112983.D  
 Acq On : 12 Mar 2019 4:49  
 Operator : JU/SJ  
 Sample : K1817-14  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

Quant Time: Mar 12 07:24:29 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 01 15:40:43 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 30272    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.01  | 136  | 129767   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.76  | 164  | 76326    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.24 | 188  | 191564   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.86 | 240  | 155335   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.27 | 264  | 119194   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 166886   | 85.76  | ng    | -0.02    |
| 7) Phenol-d6                | 6.36  | 99   | 214211   | 87.63  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 114520   | 52.81  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 98450    | 121.50 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 289357   | 57.70  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 462533   | 57.72  | ng    | -0.01    |

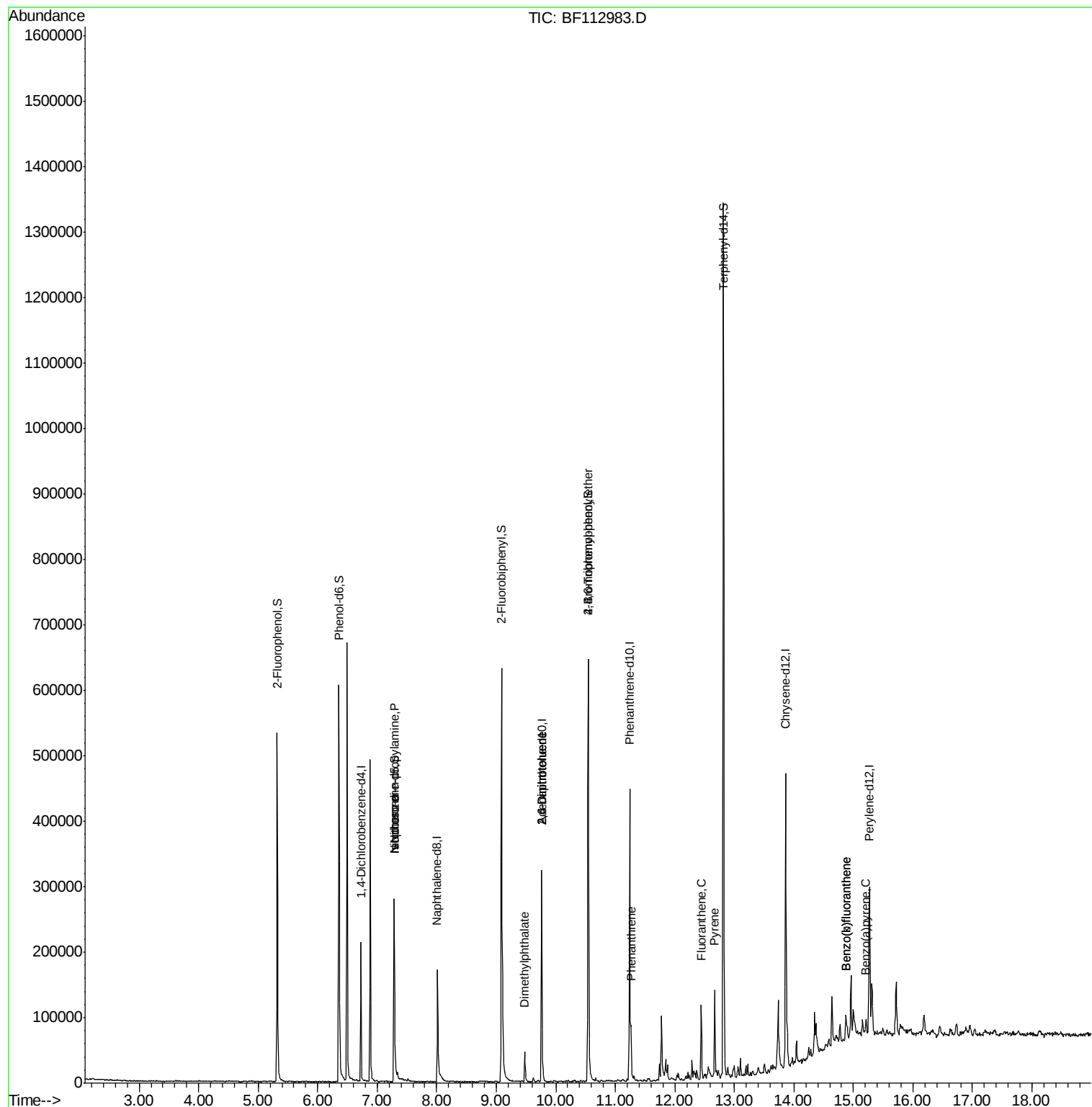
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 14353    | 9.270  | ng    | # 79   |
| 25) Isophorone                 | 7.29  | 82   | 114519   | 24.512 | ng    | # 66   |
| 50) Dimethylphthalate          | 9.48  | 163  | 22934    | 4.075  | ng    | # 99   |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165  | 9230     | 7.876  | ng    | # 17   |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 9230     | 6.336  | ng    | # 16   |
| 67) 4-Bromophenyl-phenylether  | 10.55 | 248  | 5340     | 2.647  | ng    | # 1    |
| 71) Phenanthrene               | 11.26 | 178  | 29476    | 3.093  | ng    | 98     |
| 75) Fluoranthene               | 12.45 | 202  | 46513    | 4.555  | ng    | 97     |
| 78) Pyrene                     | 12.67 | 202  | 57466    | 4.388  | ng    | 99     |
| 88) Benzo(b)fluoranthene       | 14.87 | 252  | 27583    | 3.578  | ng    | # 95   |
| 89) Benzo(k)fluoranthene       | 14.87 | 252  | 27583    | 3.950  | ng    | # 95   |
| 90) Benzo(a)pyrene             | 15.21 | 252  | 15275    | 2.240  | ng    | # 91   |

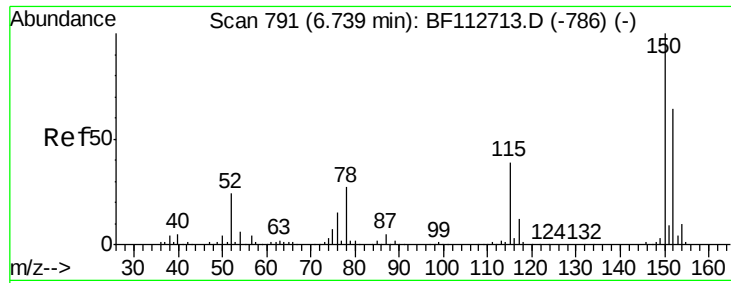
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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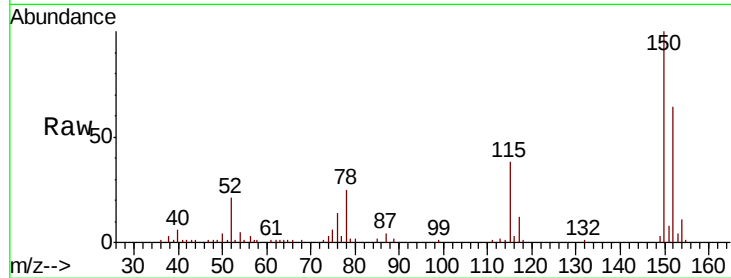




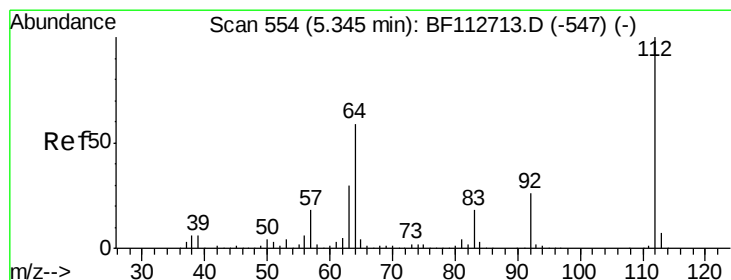
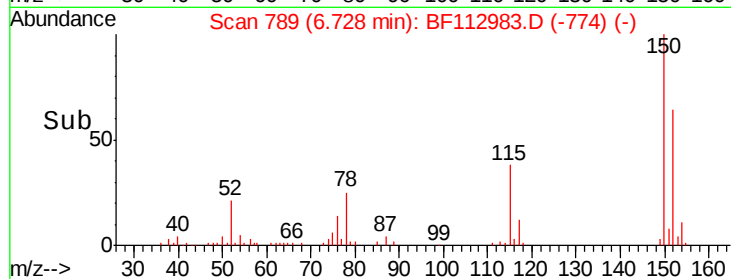
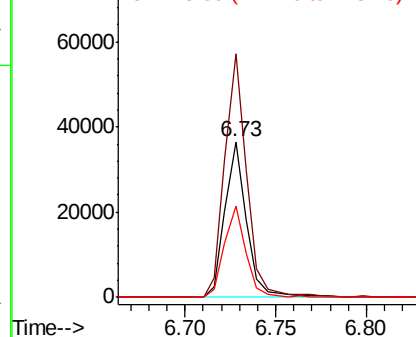
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.73 min Scan# 789  
 Delta R.T. -0.01 min  
 Lab File: BF112983.D  
 Acq: 12 Mar 2019 4:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

Tgt Ion:152 Resp: 30272  
 Ion Ratio Lower Upper  
 152 100  
 150 156.2 124.2 186.2  
 115 59.0 48.2 72.4

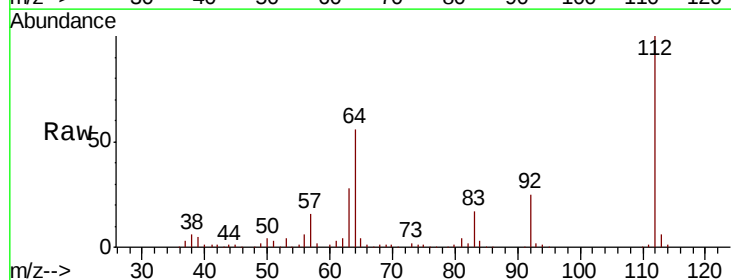


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

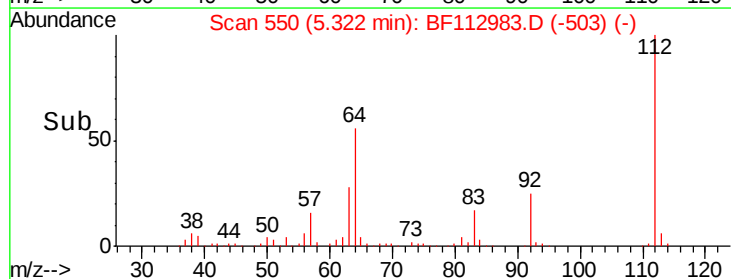
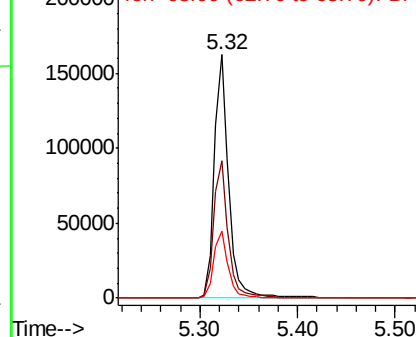


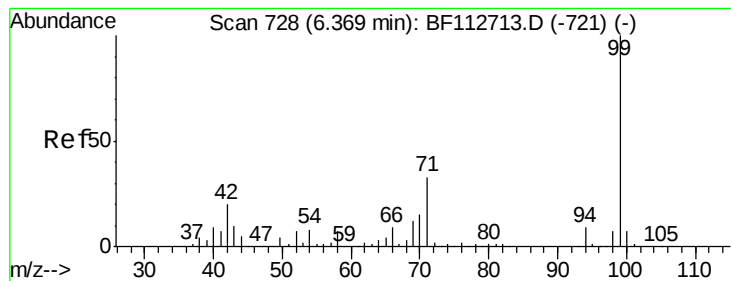
#5  
 2-Fluorophenol  
 Concen: 85.755 ng  
 RT: 5.32 min Scan# 550  
 Delta R.T. -0.02 min  
 Lab File: BF112983.D  
 Acq: 12 Mar 2019 4:49

Tgt Ion:112 Resp: 166886  
 Ion Ratio Lower Upper  
 112 100  
 64 56.5 47.6 71.4  
 63 27.7 24.4 36.6



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: 87.627 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF112983.D

Acq: 12 Mar 2019 4:49

Instrument :

BNA\_F

ClientSampleId :

PST-027-B116-030619

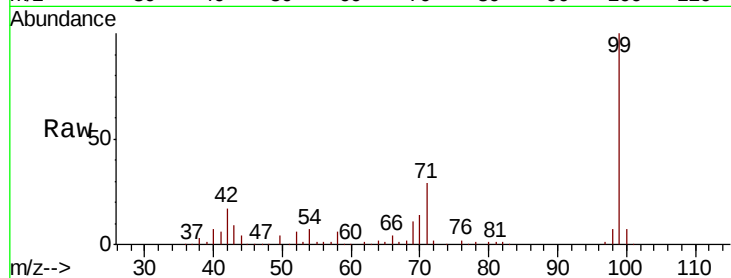
Tgt Ion: 99 Resp: 214211

Ion Ratio Lower Upper

99 100

42 16.7 16.3 24.5

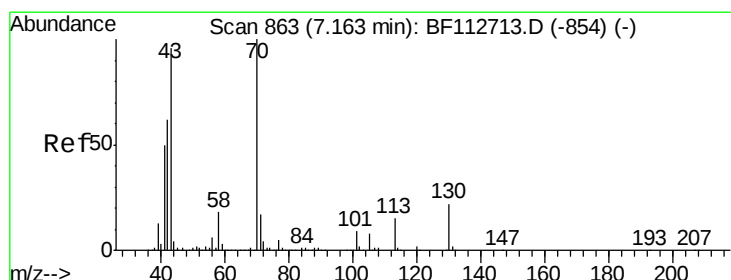
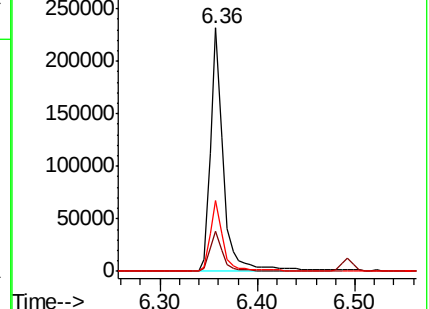
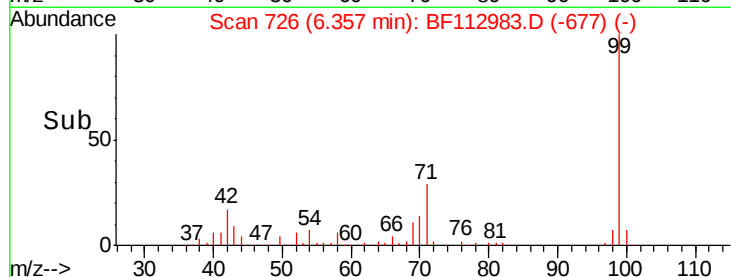
71 29.3 26.2 39.4



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: 9.270 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.12 min

Lab File: BF112983.D

Acq: 12 Mar 2019 4:49

Tgt Ion: 70 Resp: 14353

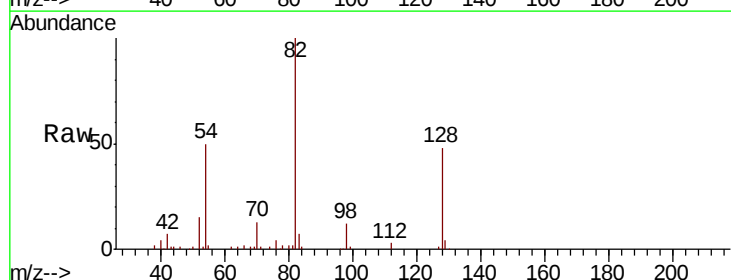
Ion Ratio Lower Upper

70 100

42 51.3 49.9 74.9

101 0.0 7.4 11.2#

130 2.7 17.4 26.2#

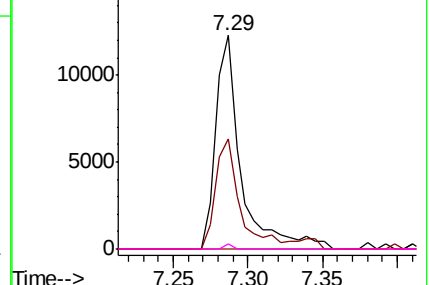
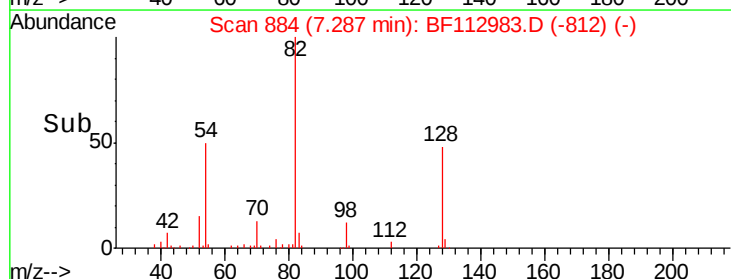


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

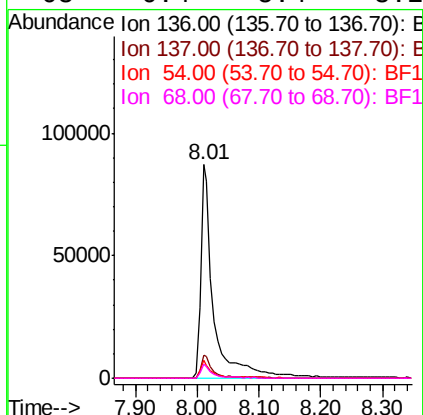
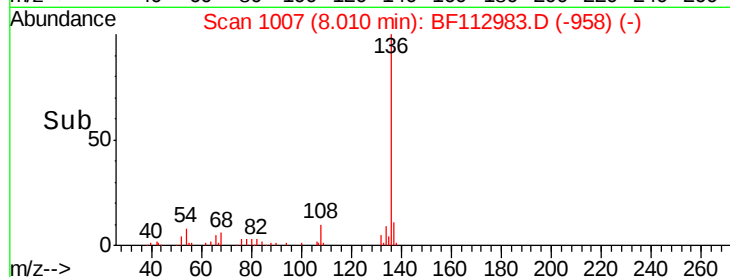
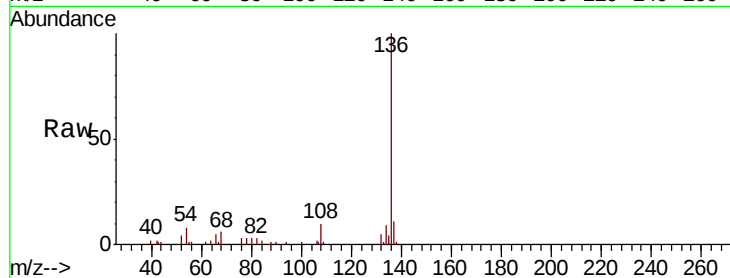




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

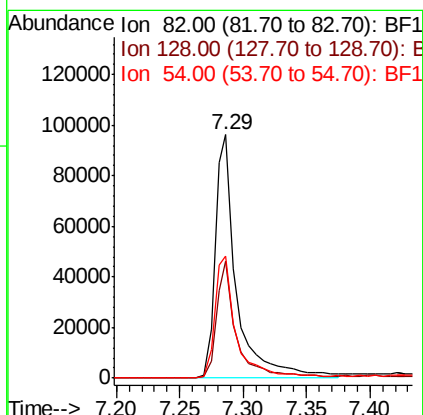
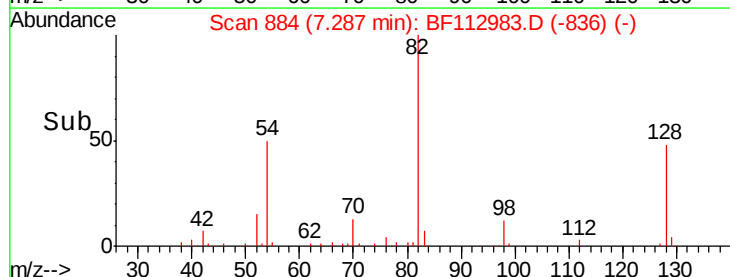
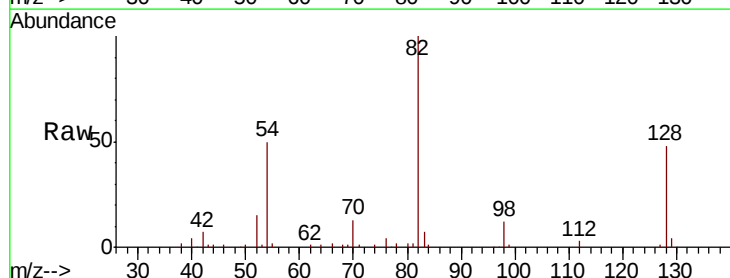
Instrument :  
BNA\_F  
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PST-027-B116-030619

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 129767 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.9   | 13.3   |
| 54       | 8.2   | 7.3   | 10.9   |
| 68       | 6.4   | 5.4   | 8.2    |



#23  
Nitrobenzene-d5  
Concen: 52.807 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.02 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 114520 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 48.1  | 36.3  | 54.5   |
| 54       | 50.2  | 43.7  | 65.5   |

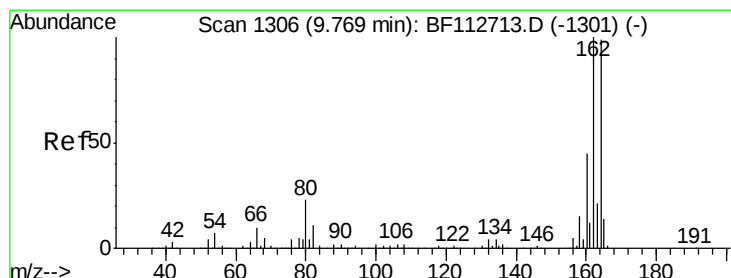
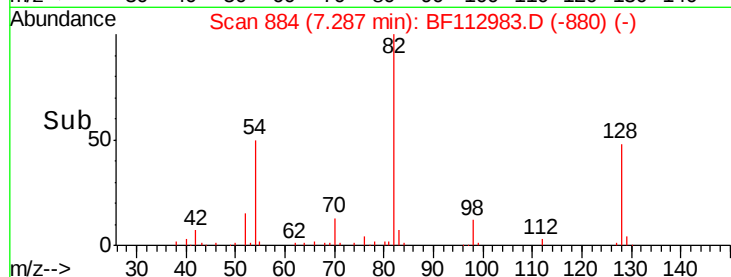
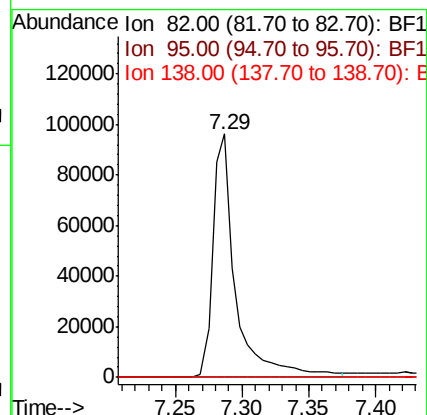
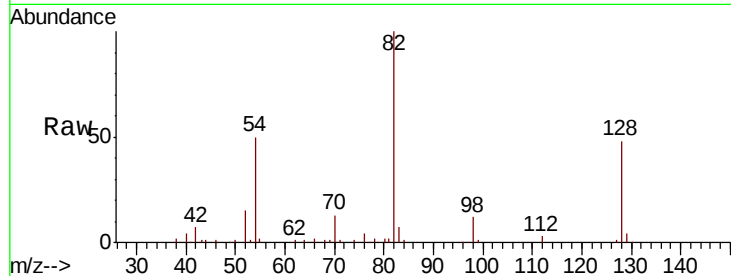




#25  
Isophorone  
Concen: 24.512 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.28 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

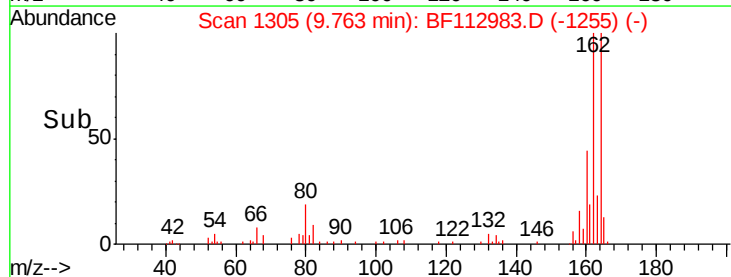
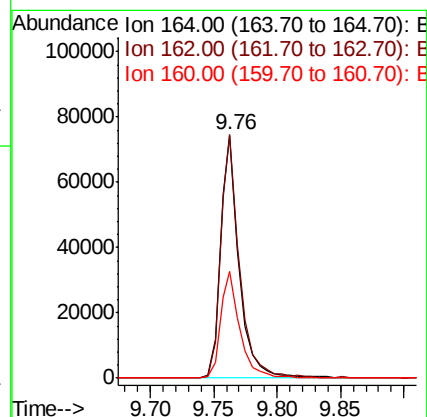
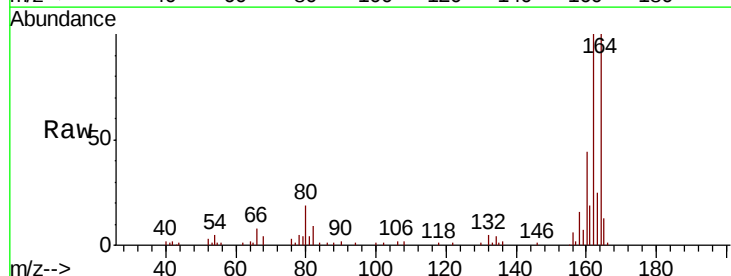
Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

Tgt Ion: 82 Resp: 114519  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 13.8 20.8#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

Tgt Ion: 164 Resp: 76326  
Ion Ratio Lower Upper  
164 100  
162 100.4 80.6 120.8  
160 43.9 36.0 54.0

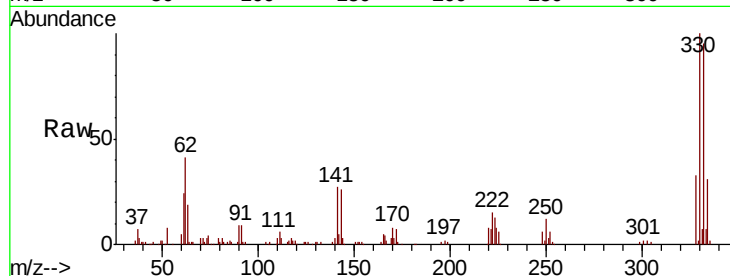




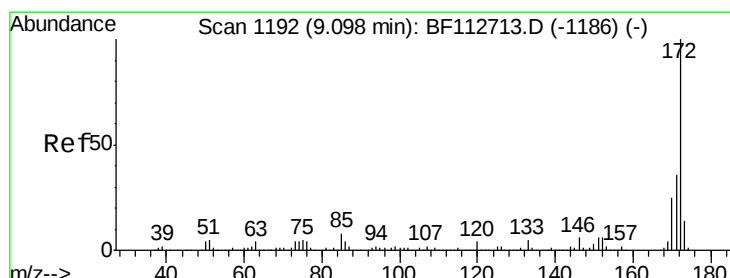
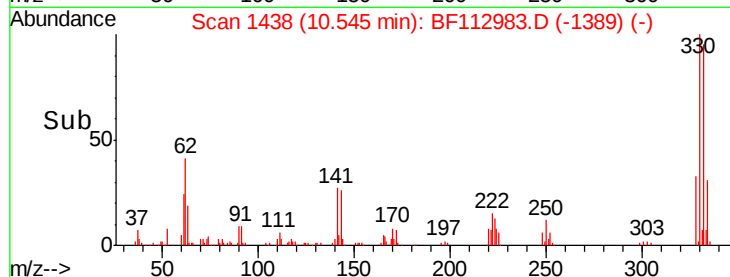
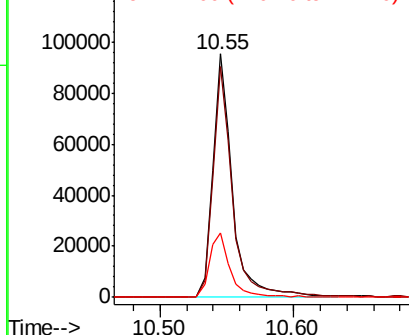
#42  
 2,4,6-Tribromophenol  
 Concen: 121.499 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF112983.D  
 Acq: 12 Mar 2019 4:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 76.2  | 114.4 |
| 141     | 28.4  | 27.0  | 40.6  |

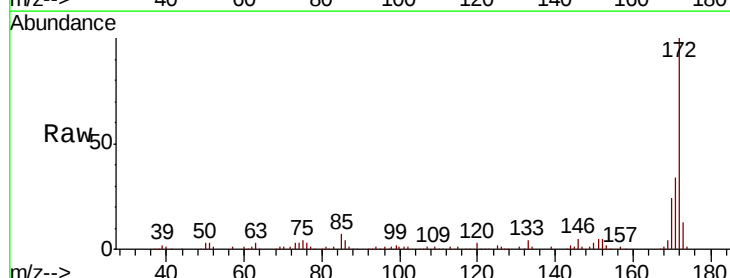


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

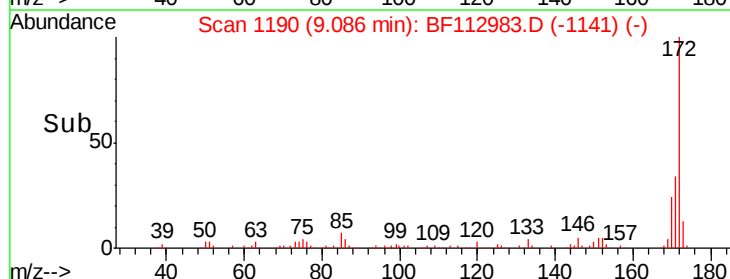
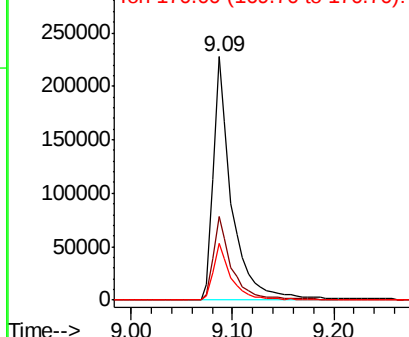


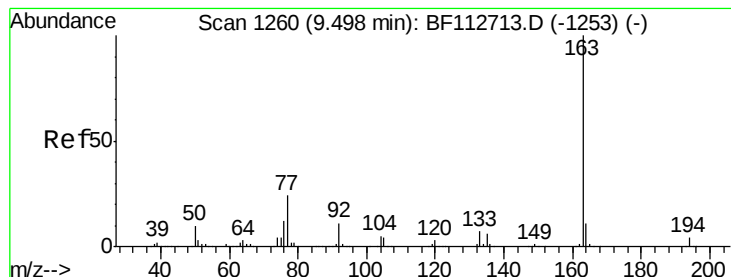
#45  
 2-Fluorobiphenyl  
 Concen: 57.704 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF112983.D  
 Acq: 12 Mar 2019 4:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.2  | 29.0  | 43.4  |
| 170     | 23.5  | 20.0  | 30.0  |



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: 4.075 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.02 min

Lab File: BF112983.D

Acq: 12 Mar 2019 4:49

Instrument :

BNA\_F

ClientSampleId :

PST-027-B116-030619

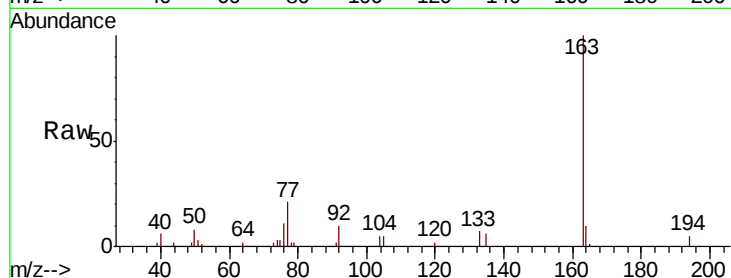
Tgt Ion:163 Resp: 22934

Ion Ratio Lower Upper

163 100

194 4.5 3.0 4.4#

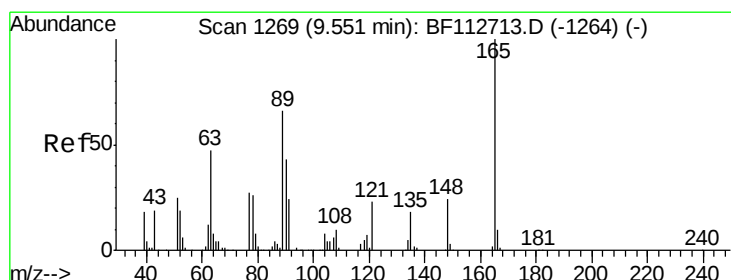
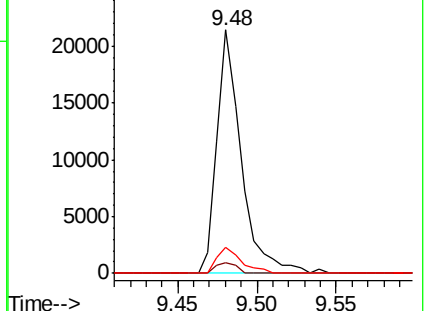
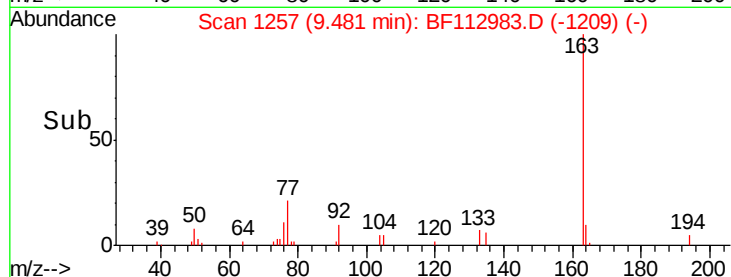
164 10.4 8.4 12.6



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: 7.876 ng

RT: 9.76 min Scan# 1305

Delta R.T. 0.21 min

Lab File: BF112983.D

Acq: 12 Mar 2019 4:49

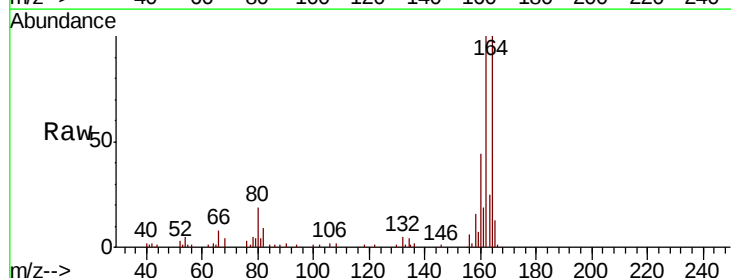
Tgt Ion:165 Resp: 9230

Ion Ratio Lower Upper

165 100

63 0.0 54.1 81.1#

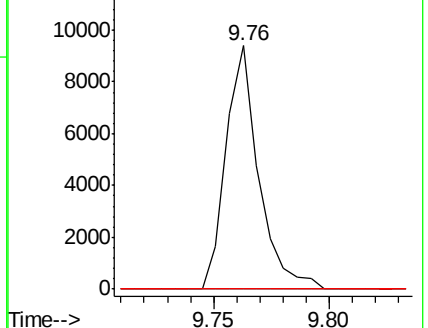
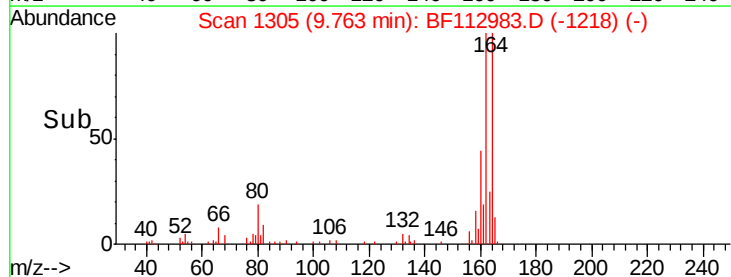
89 0.0 52.8 79.2#



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

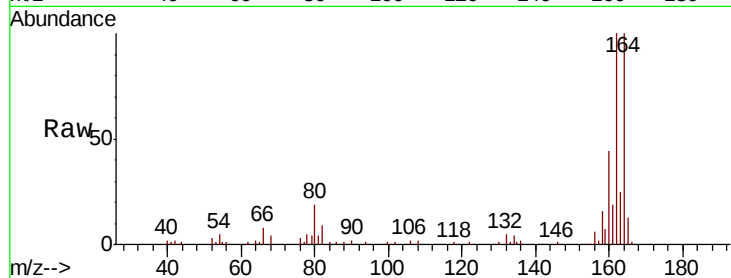




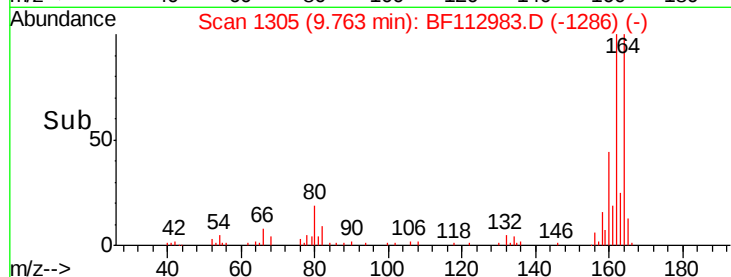
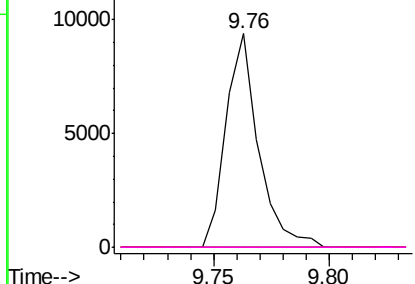
#57  
2,4-Dinitrotoluene  
Concen: 6.336 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.19 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 9230  |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 42.2  | 63.2# |
| 89       | 0.0   | 66.2  | 99.4# |
| 182      | 0.0   | 1.8   | 2.6#  |

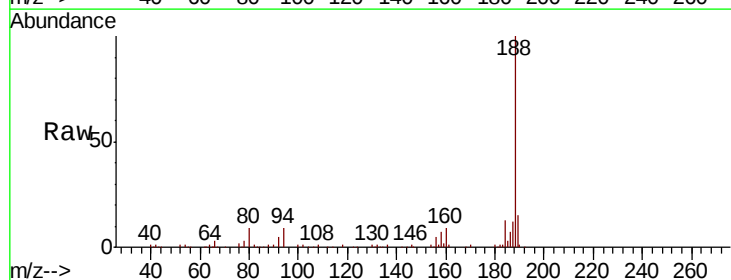


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

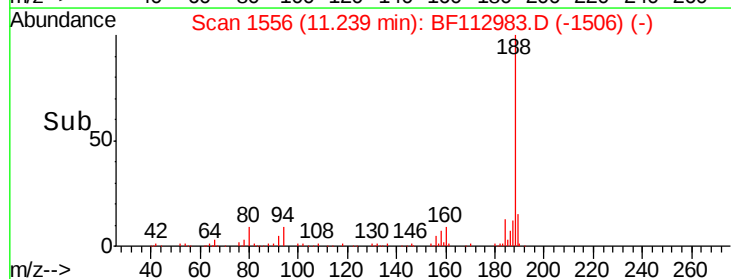
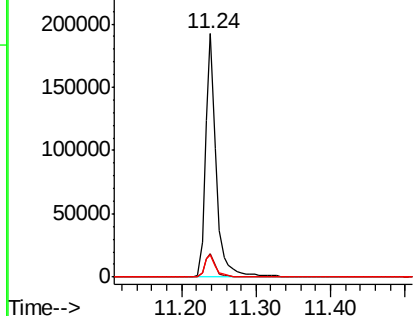


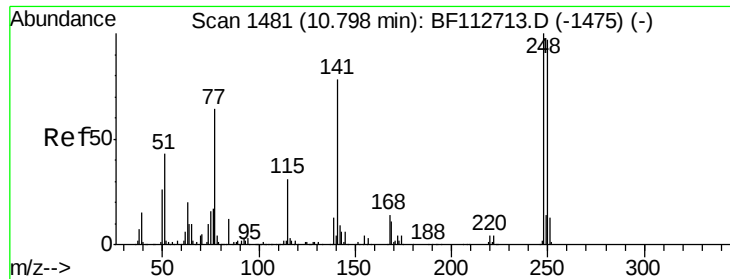
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.24 min Scan# 1556  
Delta R.T. -0.01 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 191564 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.4   | 9.0   | 13.4   |
| 80       | 9.3   | 9.2   | 13.8   |



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

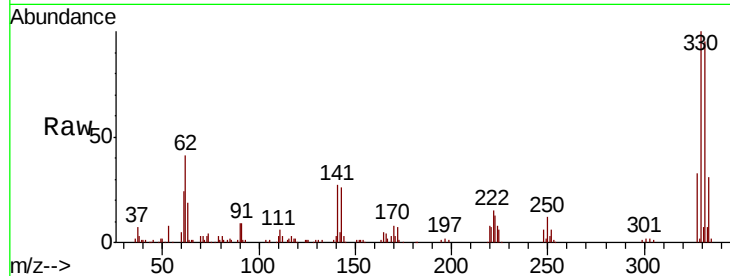




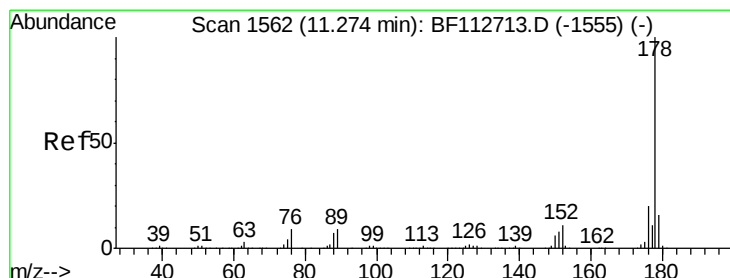
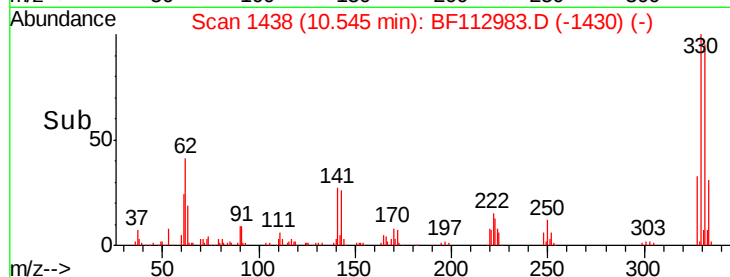
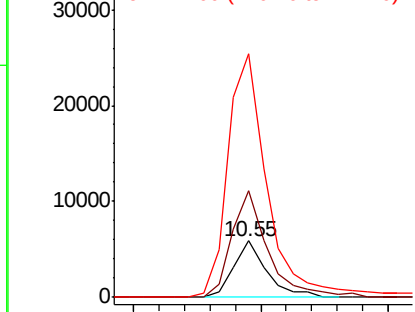
#67  
4-Bromophenyl-phenylether  
Concen: 2.647 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.25 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

Tgt Ion:248 Resp: 5340  
Ion Ratio Lower Upper  
248 100  
250 188.5 77.5 116.3#  
141 432.6 62.4 93.6#

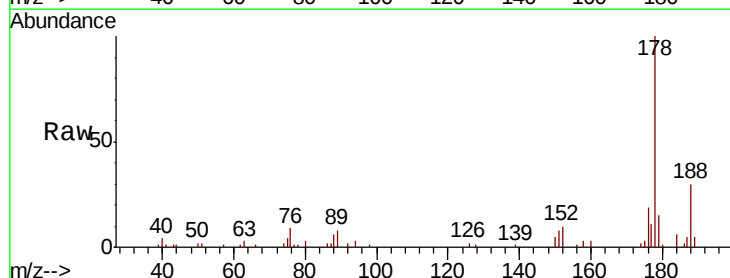


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

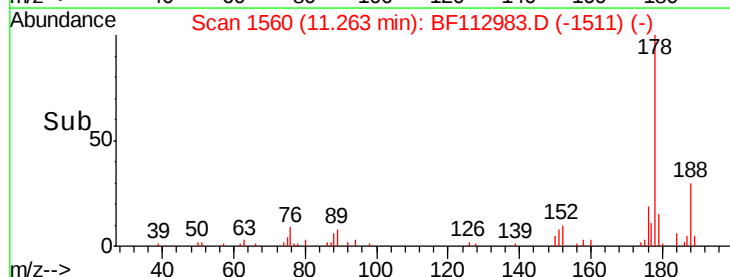
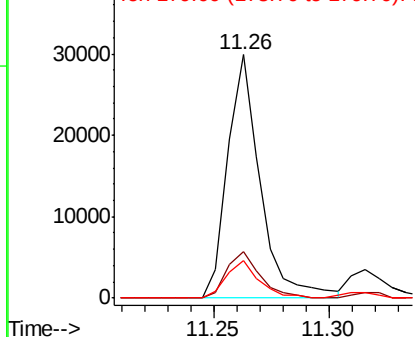


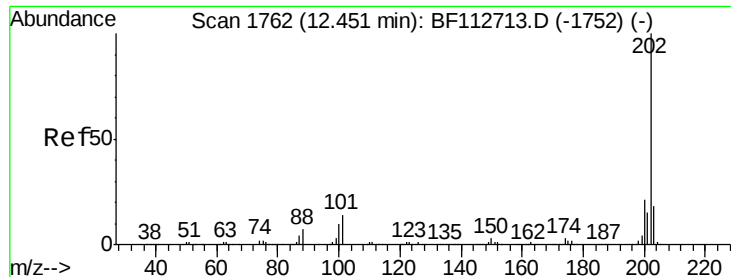
#71  
Phenanthrene  
Concen: 3.093 ng  
RT: 11.26 min Scan# 1560  
Delta R.T. -0.01 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

Tgt Ion:178 Resp: 29476  
Ion Ratio Lower Upper  
178 100  
176 19.0 16.3 24.5  
179 15.4 12.7 19.1



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: 4.555 ng

RT: 12.45 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF112983.D

Acq: 12 Mar 2019 4:49

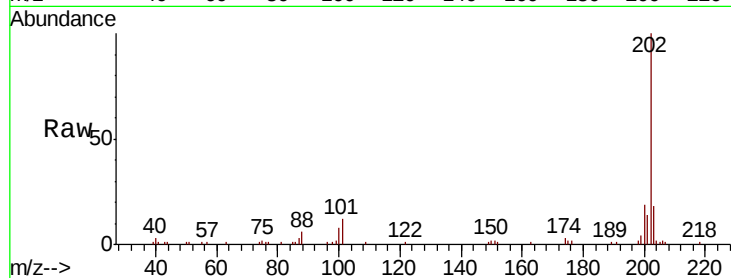
Instrument :

BNA\_F

ClientSampleId :

PST-027-B116-030619

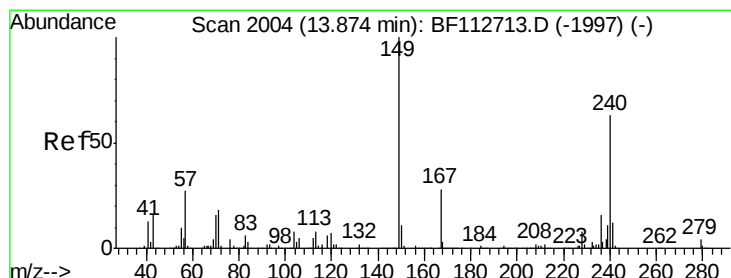
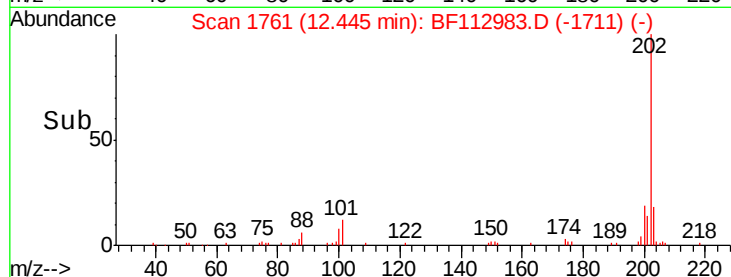
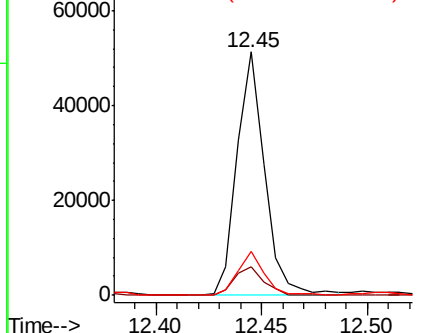
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 46513 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.7  | 0.0   | 33.8  |
| 203       | 18.2  | 0.0   | 38.4  |



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

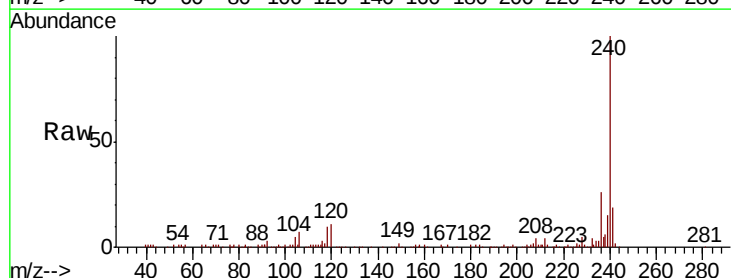
RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF112983.D

Acq: 12 Mar 2019 4:49

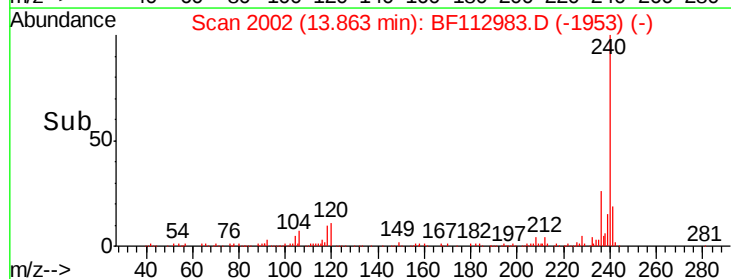
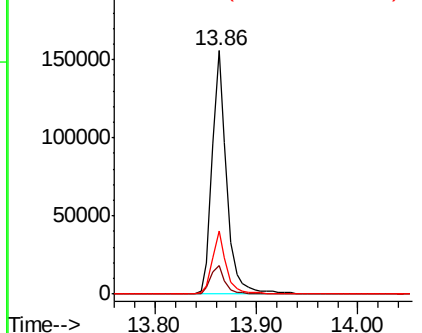
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 155335 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.5  | 8.9   | 13.3   |
| 236       | 25.7  | 20.7  | 31.1   |

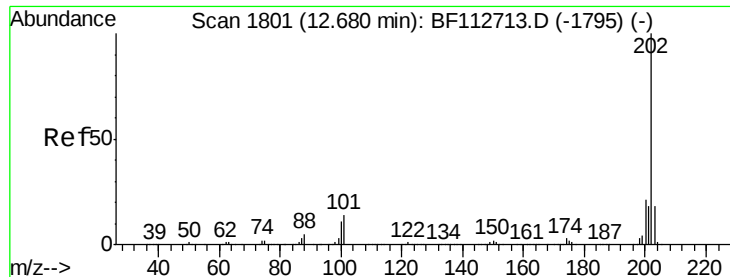


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

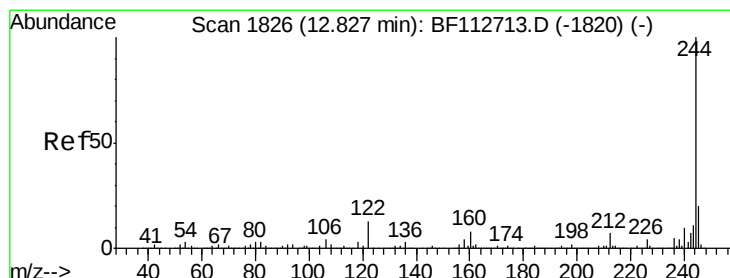
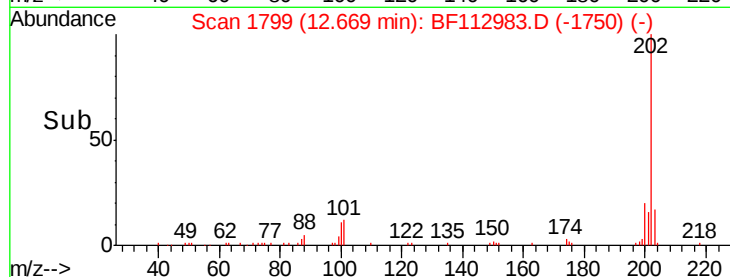
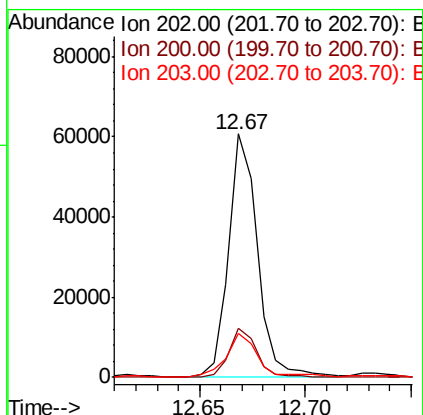
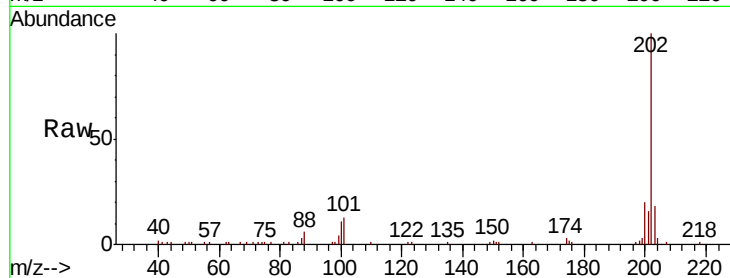




#78  
 Pyrene  
 Concen: 4.388 ng  
 RT: 12.67 min Scan# 1799  
 Delta R.T. -0.01 min  
 Lab File: BF112983.D  
 Acq: 12 Mar 2019 4:49

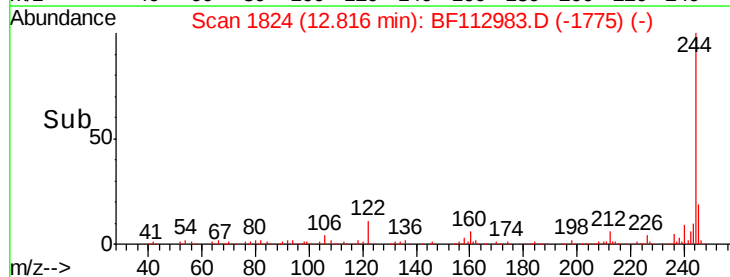
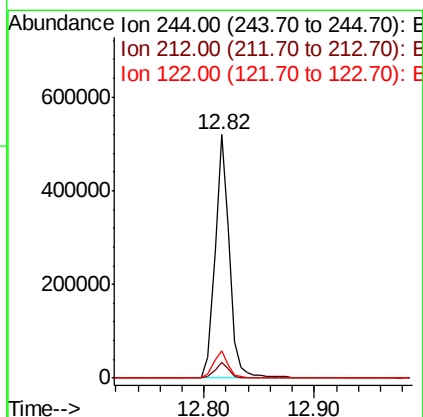
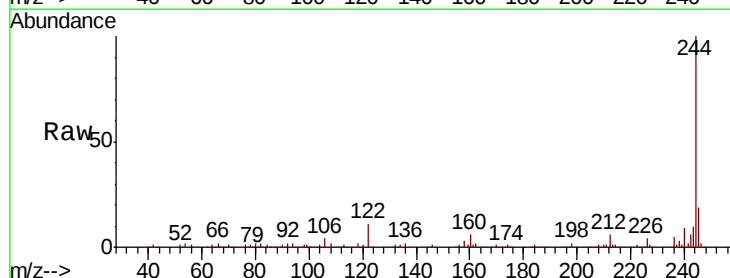
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PST-027-B116-030619

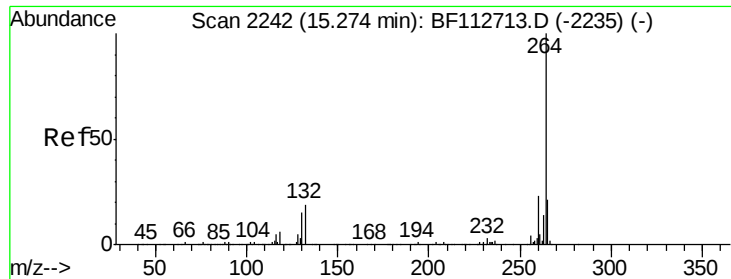
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.2  | 17.0  | 25.4  |
| 203     | 18.0  | 14.4  | 21.6  |



#79  
 Terphenyl-d14  
 Concen: 57.722 ng  
 RT: 12.82 min Scan# 1824  
 Delta R.T. -0.01 min  
 Lab File: BF112983.D  
 Acq: 12 Mar 2019 4:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.3   | 5.6   | 8.4   |
| 122     | 11.3  | 10.5  | 15.7  |

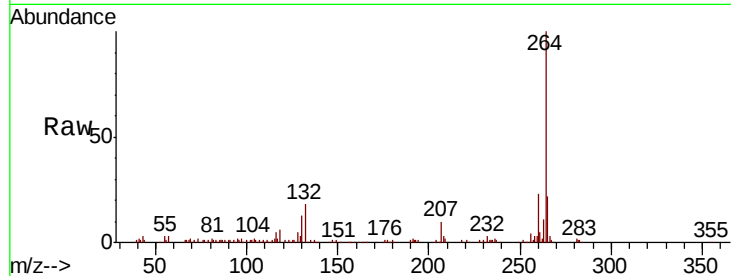




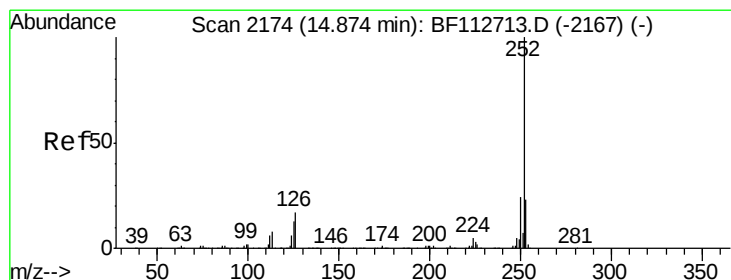
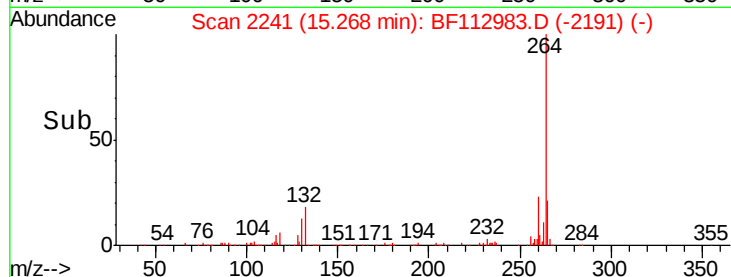
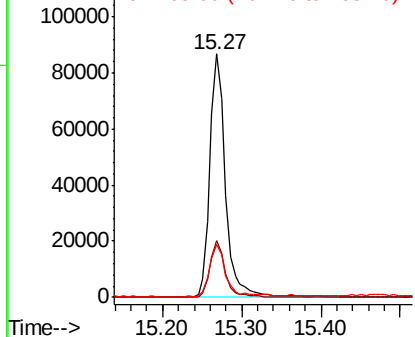
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.27 min Scan# 2241  
Delta R.T. -0.01 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

Tgt Ion:264 Resp: 119194  
Ion Ratio Lower Upper  
264 100  
260 23.1 18.7 28.1  
265 21.6 17.2 25.8

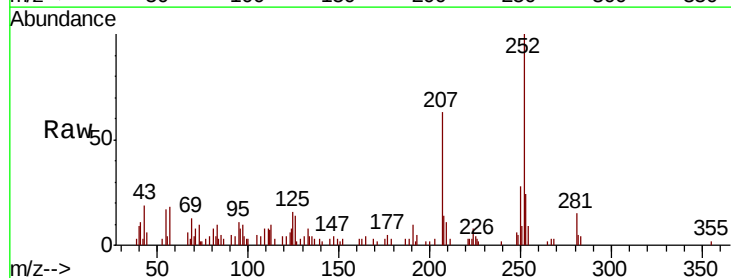


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

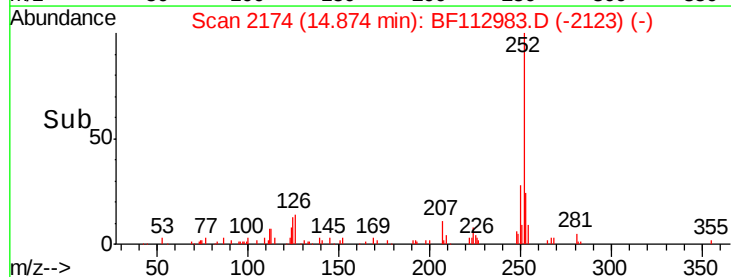
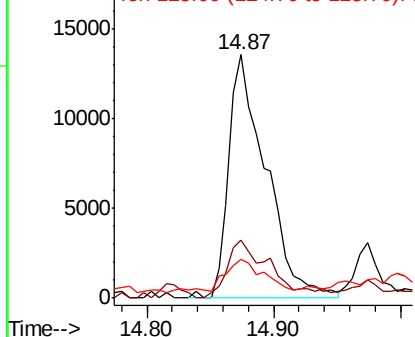


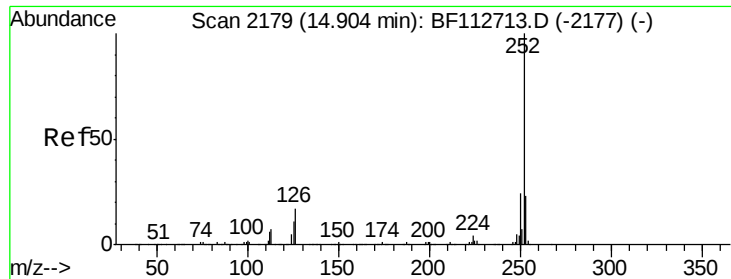
#88  
Benzo(b)fluoranthene  
Concen: 3.578 ng  
RT: 14.87 min Scan# 2174  
Delta R.T. 0.00 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

Tgt Ion:252 Resp: 27583  
Ion Ratio Lower Upper  
252 100  
253 23.9 18.0 27.0  
125 15.8 10.2 15.2#



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

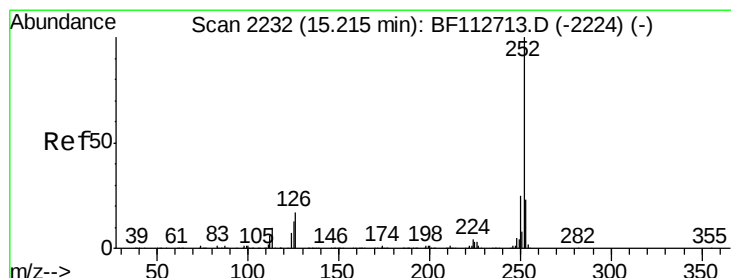
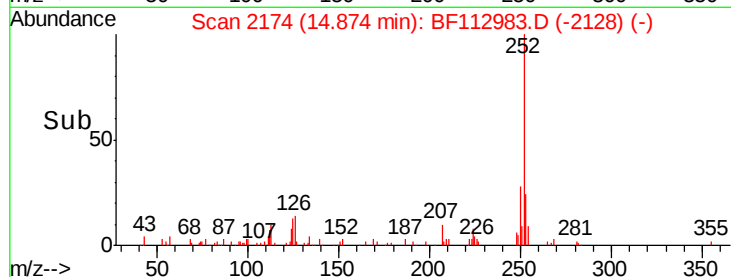
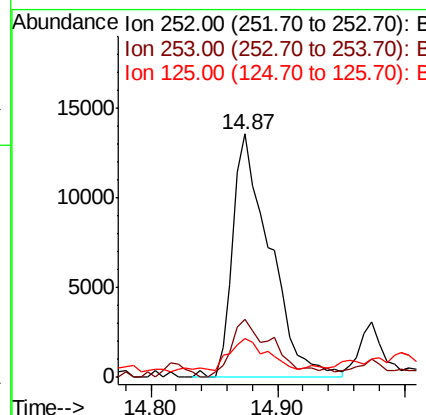
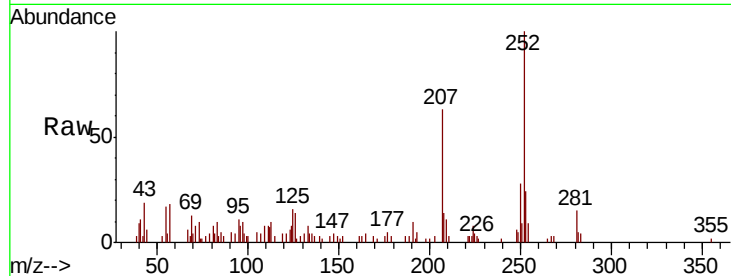




#89  
Benzo(k)fluoranthene  
Concen: 3.950 ng  
RT: 14.87 min Scan# 2174  
Delta R.T. -0.03 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

Instrument :  
BNA\_F  
ClientSampleId :  
PST-027-B116-030619

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 18.2  | 27.2  |
| 125     | 15.8  | 9.8   | 14.6  |



#90  
Benzo(a)pyrene  
Concen: 2.240 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. -0.01 min  
Lab File: BF112983.D  
Acq: 12 Mar 2019 4:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 18.0  | 27.0  |
| 125     | 21.4  | 10.7  | 16.1  |

