

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP101319\  
 Data File : BP000689.D  
 Acq On : 13 Oct 2019 00:00  
 Operator : JU  
 Sample : K5348-12  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :

Quant Time: Oct 14 04:39:53 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP100119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 01 18:03:42 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.75  | 152  | 235993   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.03  | 136  | 836980   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 9.79  | 164  | 447663   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.29 | 188  | 820314   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 13.96 | 240  | 702982   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 15.44 | 264  | 771255   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.37  | 112  | 321039   | 21.87 | ng    | -0.02    |
| 7) Phenol-d6                | 6.39  | 99   | 1158068  | 65.46 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 966261   | 70.51 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.59 | 330  | 79145    | 16.59 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 9.12  | 172  | 1961716  | 70.90 | ng    | -0.02    |
| 79) Terphenyl-d14           | 12.90 | 244  | 2202398  | 63.43 | ng    | -0.02    |

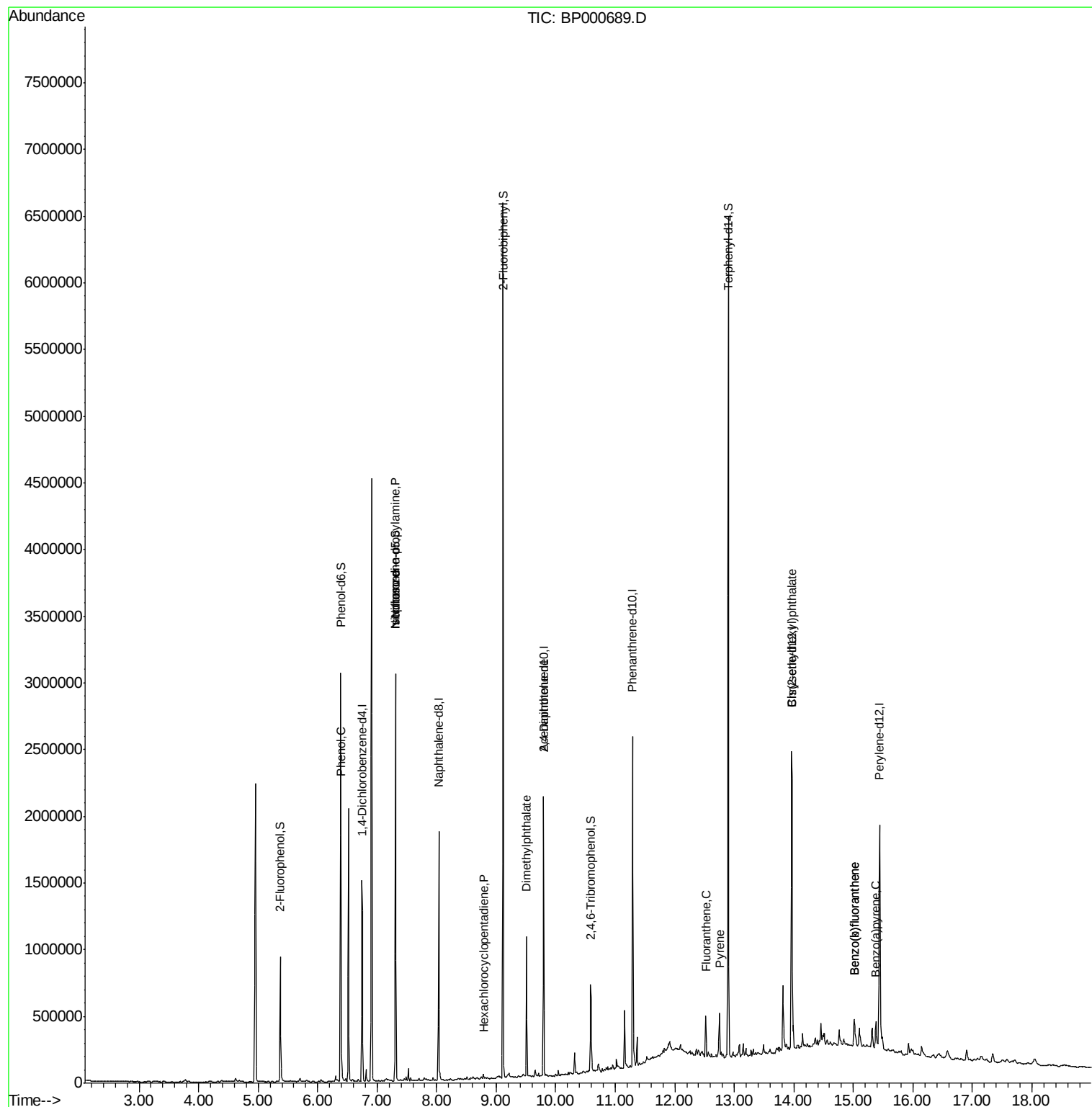
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.40  | 94   | 81102    | 4.477  | ng    | 96     |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 120477   | 14.774 | ng    | # 73   |
| 25) Isophorone                 | 7.31  | 82   | 965389   | 39.692 | ng    | # 61   |
| 41) Hexachlorocyclopentadiene  | 8.80  | 237  | 15       | 7.299  | ng    | 91     |
| 50) Dimethylphthalate          | 9.51  | 163  | 370916   | 11.924 | ng    | 100    |
| 57) 2,4-Dinitrotoluene         | 9.79  | 165  | 58628    | 6.519  | ng    | # 32   |
| 75) Fluoranthene               | 12.52 | 202  | 120763   | 2.610  | ng    | 97     |
| 78) Pyrene                     | 12.75 | 202  | 133839   | 2.760  | ng    | 99     |
| 84) Bis(2-ethylhexyl)phthalate | 13.96 | 149  | 54922    | 2.067  | ng    | 99     |
| 88) Benzo(b)fluoranthene       | 15.02 | 252  | 148308   | 3.389  | ng    | # 95   |
| 89) Benzo(k)fluoranthene       | 15.02 | 252  | 148308   | 3.560  | ng    | # 97   |
| 90) Benzo(a)pyrene             | 15.37 | 252  | 88327    | 2.165  | ng    | # 93   |

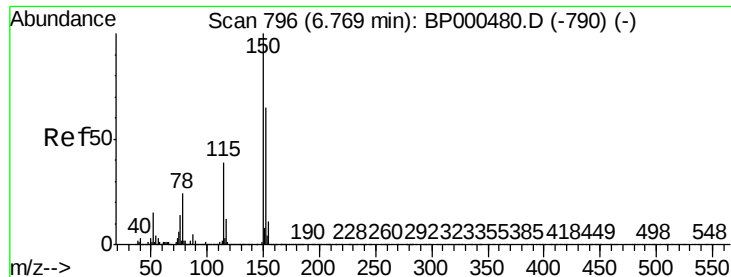
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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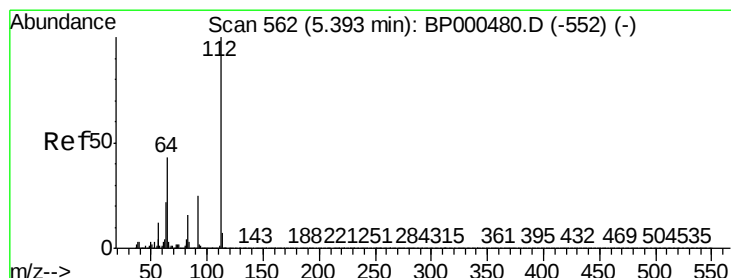
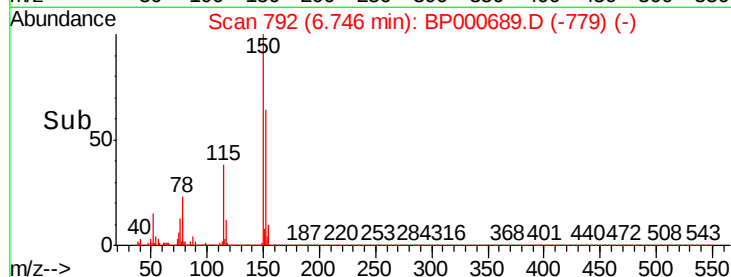
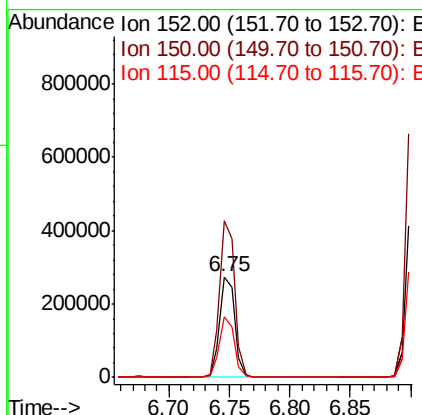
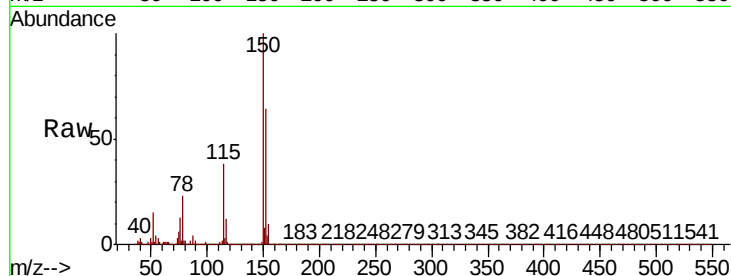


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.75 min Scan# 792  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

Instrument :  
BNA\_P  
ClientSampleId :

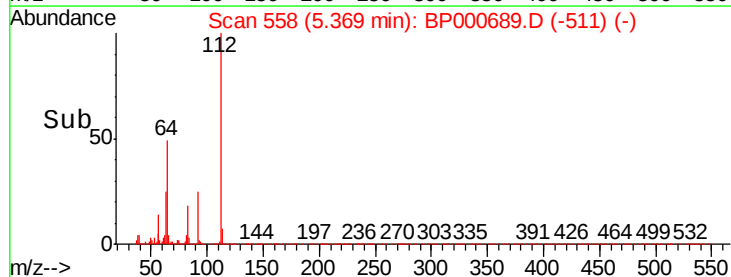
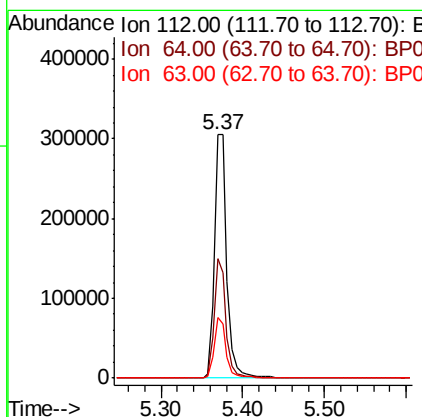
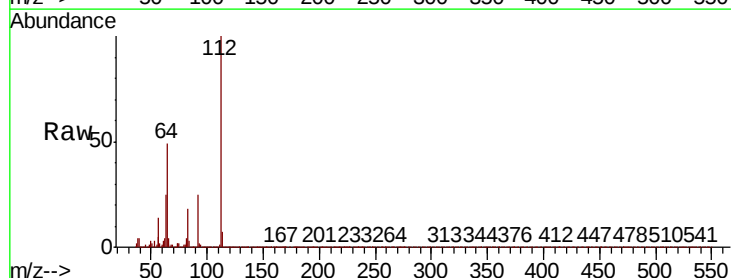
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.2 | 124.1 | 186.1 |
| 115     | 59.7  | 48.7  | 73.1  |

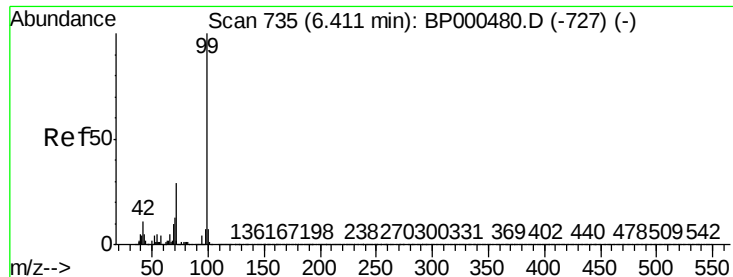


#5

2-Fluorophenol  
Concen: 21.867 ng  
RT: 5.37 min Scan# 558  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 49.0  | 34.2  | 51.4  |
| 63      | 24.6  | 17.9  | 26.9  |





#7

Phenol-d6

Concen: 65.459 ng

RT: 6.39 min Scan# 731

Delta R.T. -0.02 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

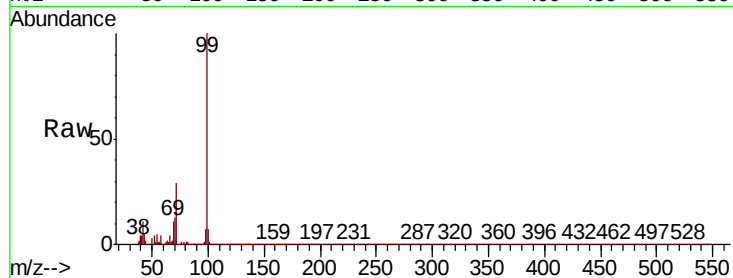
Instrument :

BNA\_P

ClientSampleId :

Tot Ion: 99 Resp: 1158068

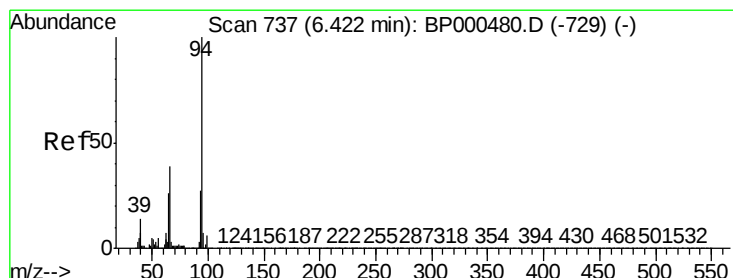
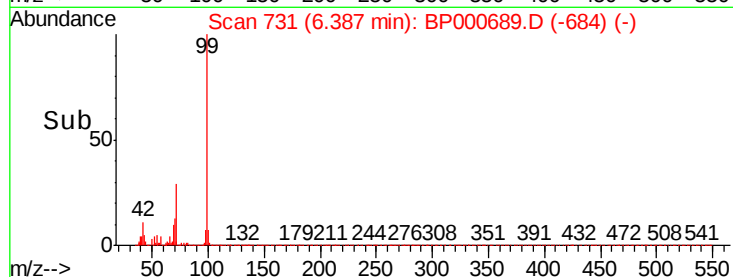
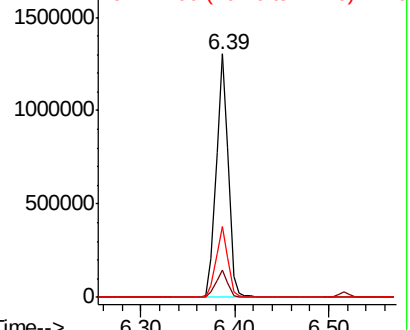
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 11.1  | 8.6   | 12.8  |
| 71  | 29.1  | 23.0  | 34.4  |



Abundance Ion 99.00 (98.70 to 99.70): BP0

Ion 42.00 (41.70 to 42.70): BP0

Ion 71.00 (70.70 to 71.70): BP0



#10

Phenol

Concen: 4.477 ng

RT: 6.40 min Scan# 733

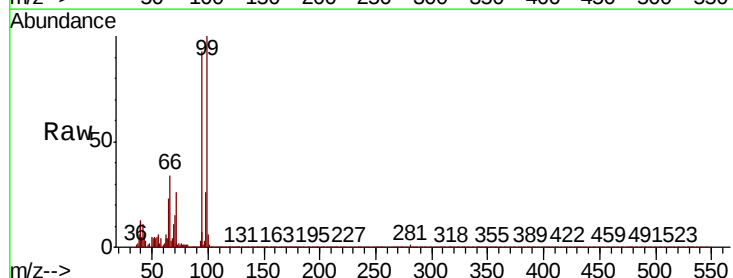
Delta R.T. -0.02 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

Tgt Ion: 94 Resp: 81102

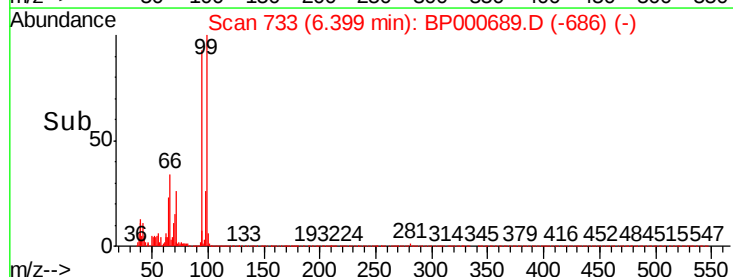
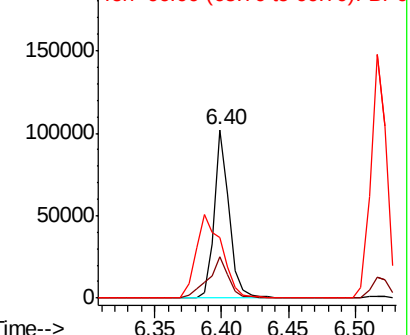
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 24.2  | 5.9   | 45.9  |
| 66  | 36.0  | 18.8  | 58.8  |

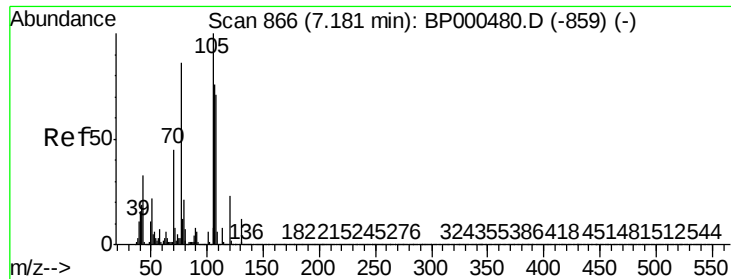


Abundance Ion 94.00 (93.70 to 94.70): BP0

Ion 65.00 (64.70 to 65.70): BP0

Ion 66.00 (65.70 to 66.70): BP0

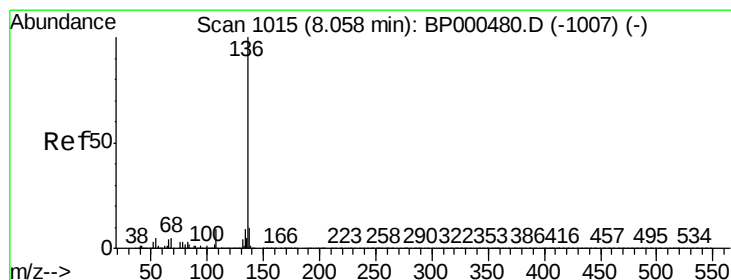
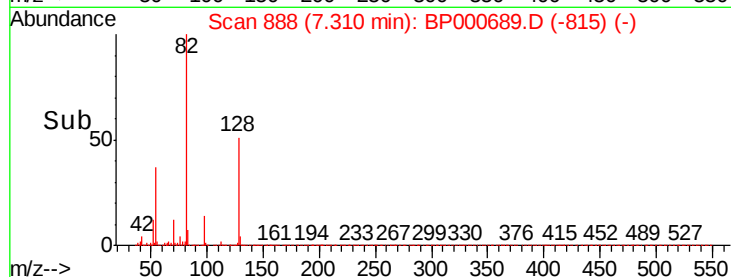
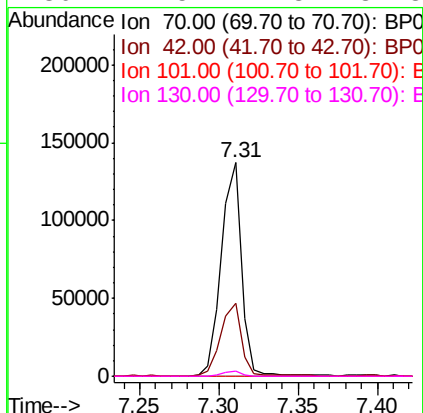
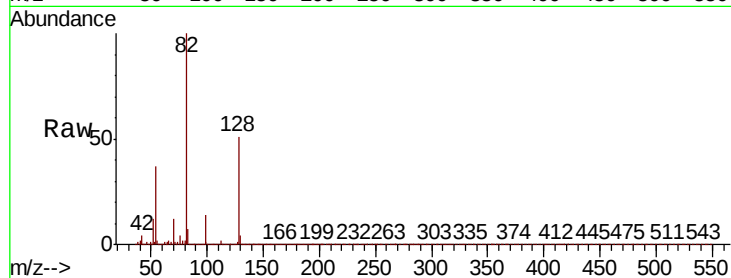




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.774 ng  
RT: 7.31 min Scan# 888  
Delta R.T. 0.13 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

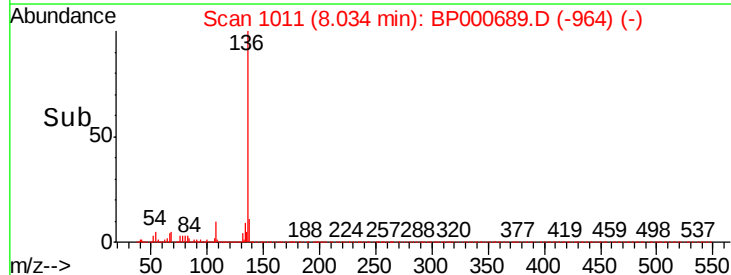
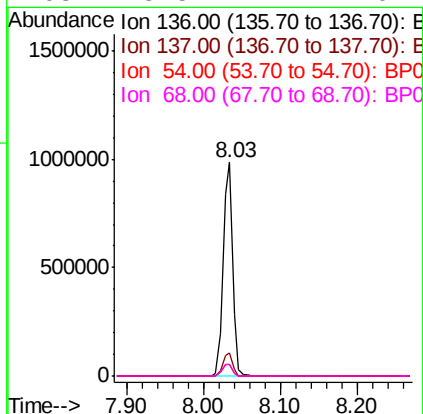
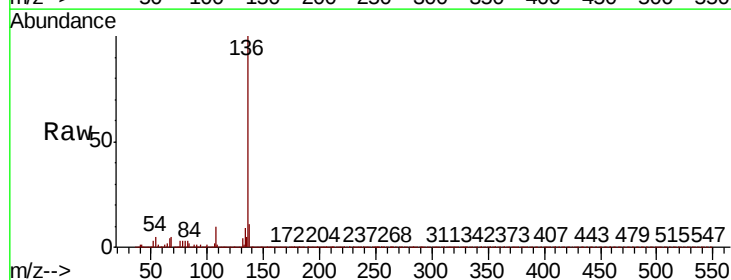
Instrument :  
BNA\_P  
ClientSampleId :

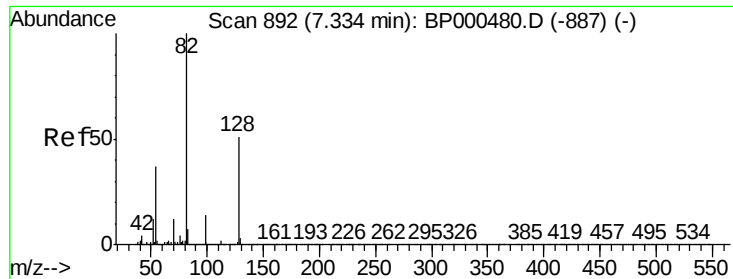
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 70    | Resp: | 120477 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 34.3  | 33.2  | 49.8   |
| 101      | 0.1   | 9.9   | 14.9#  |
| 130      | 2.5   | 21.8  | 32.8#  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.03 min Scan# 1011  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 836980 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.2   | 12.4   |
| 54       | 5.3   | 4.1   | 6.1    |
| 68       | 5.5   | 4.1   | 6.1    |

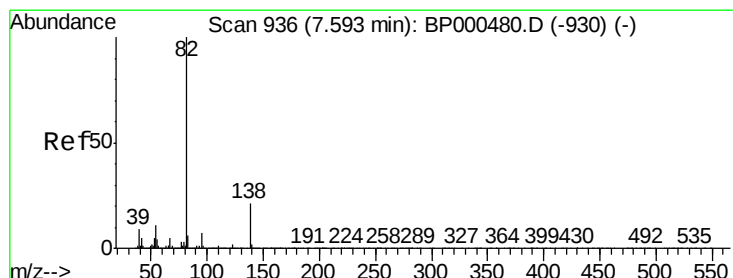
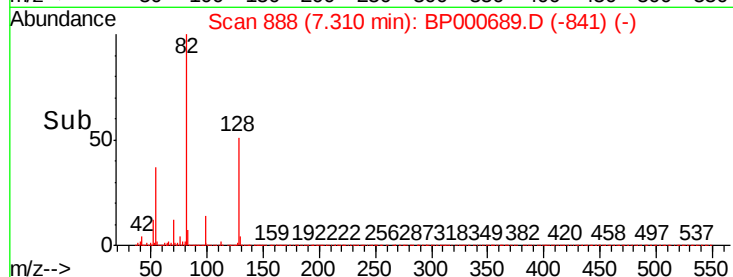
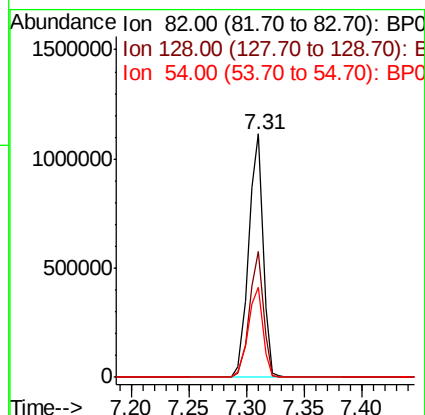
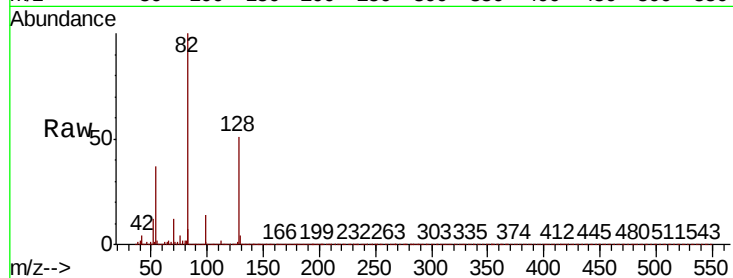




#23  
Nitrobenzene-d5  
Concen: 70.509 ng  
RT: 7.31 min Scan# 888  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

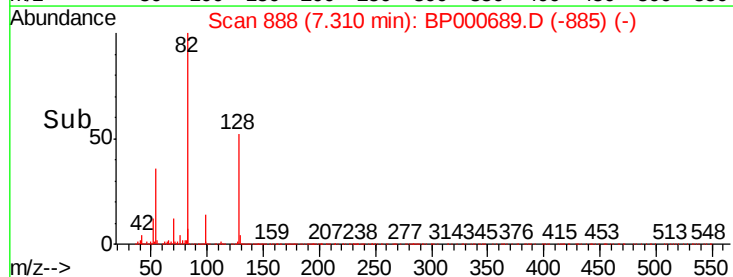
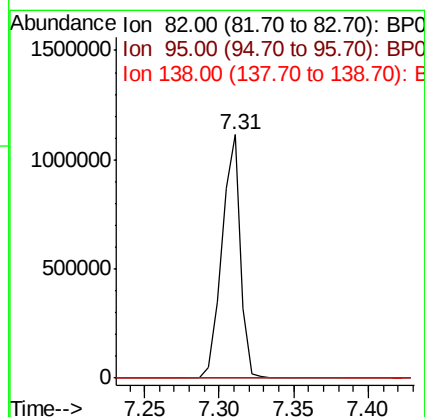
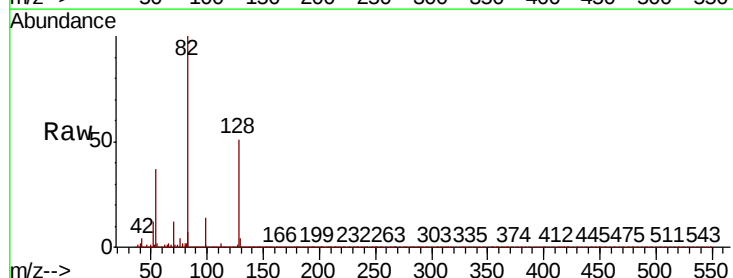
Instrument :  
BNA\_P  
ClientSampled :

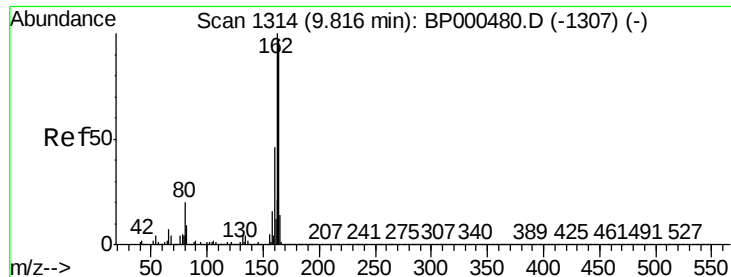
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 51.5  | 40.9  | 61.3  |
| 54      | 36.7  | 29.4  | 44.2  |



#25  
Isophorone  
Concen: 39.692 ng  
RT: 7.31 min Scan# 888  
Delta R.T. -0.28 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.8   | 8.6#  |
| 138     | 0.0   | 17.0  | 25.4# |

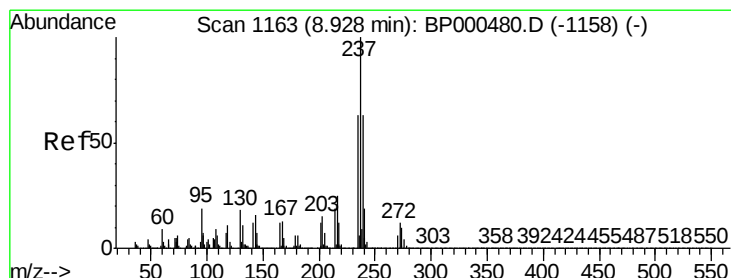
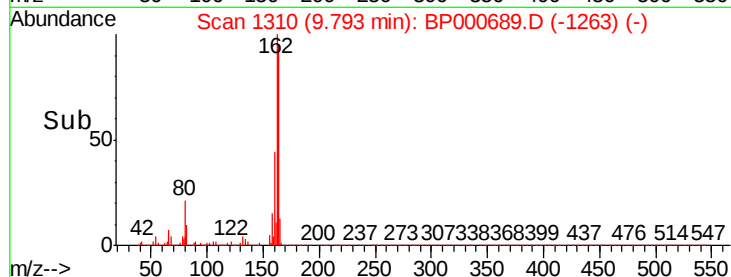
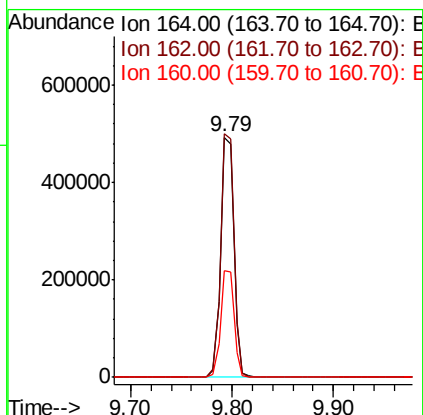
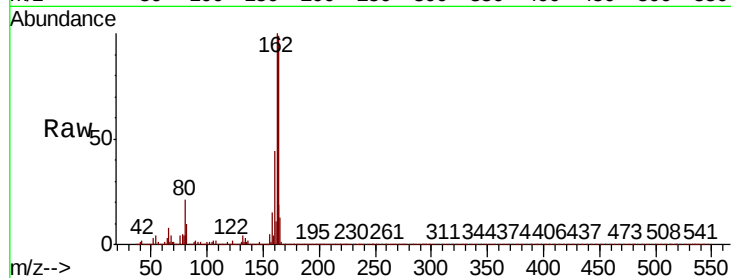




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.79 min Scan# 1310  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

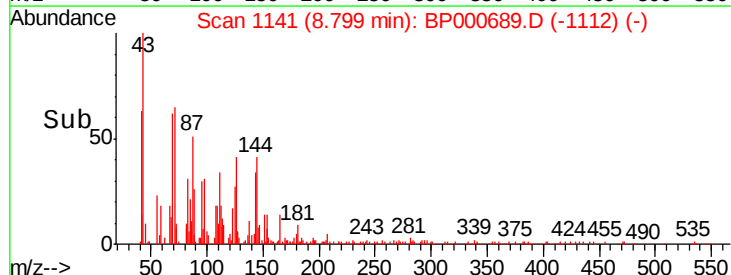
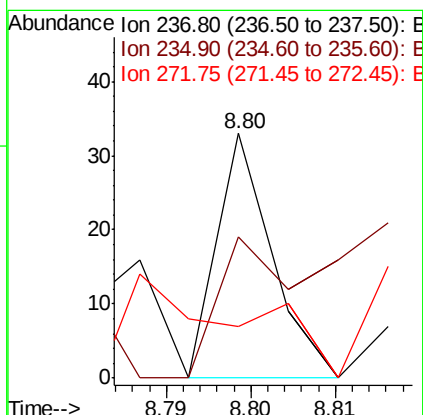
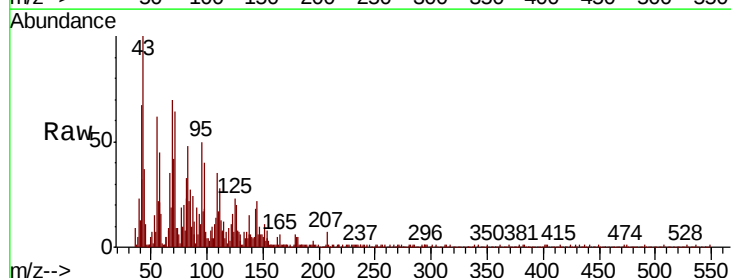
Instrument :  
BNA\_P  
ClientSampleId :

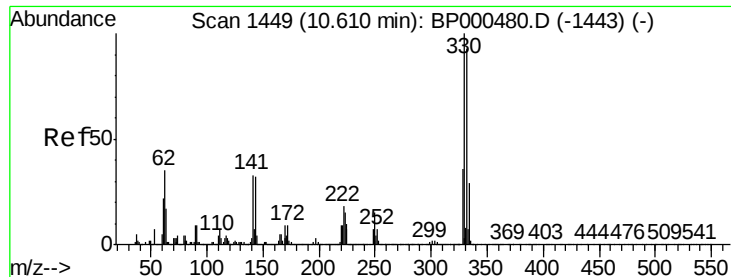
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Ion Ratio Lower Upper  
164 100  
162 101.3 82.2 123.2  
160 44.6 37.6 56.4



#41  
Hexachlorocyclopentadiene  
Concen: 7.299 ng  
RT: 8.80 min Scan# 1141  
Delta R.T. -0.13 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

Tgt Ion:237 Resp: 15  
Ion Ratio Lower Upper  
237 100  
235 57.6 42.9 82.9  
272 21.2 0.0 32.4

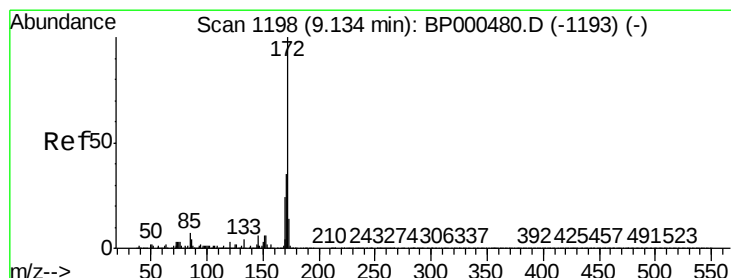
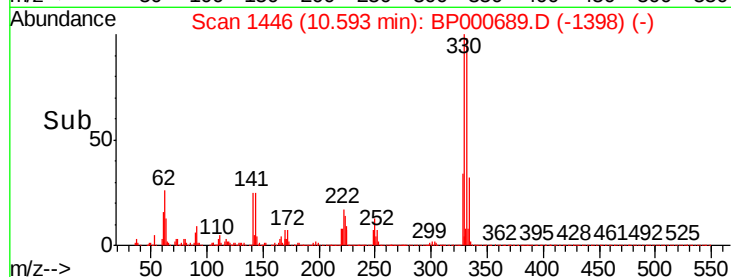
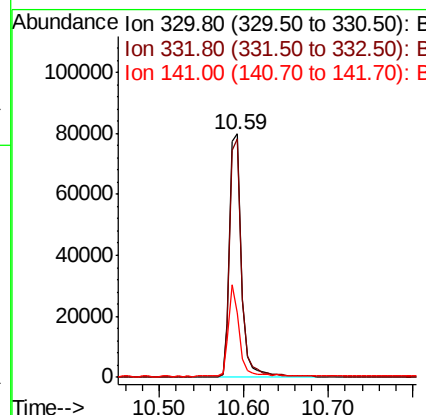
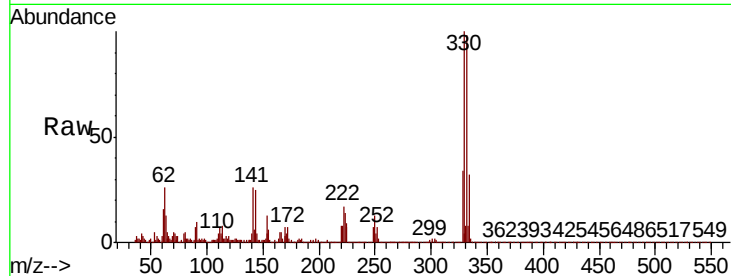




#42  
 2,4,6-Tribromophenol  
 Concen: 16.591 ng  
 RT: 10.59 min Scan# 1446  
 Delta R.T. -0.02 min  
 Lab File: BP000689.D  
 Acq: 13 Oct 2019 00:00

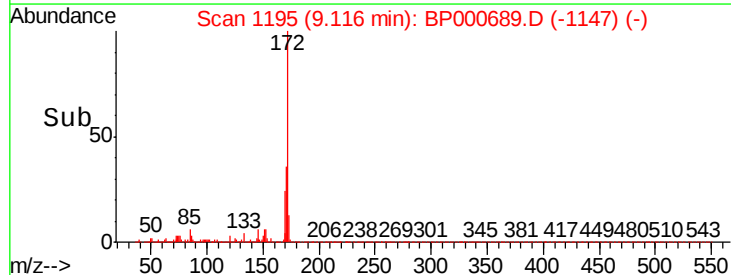
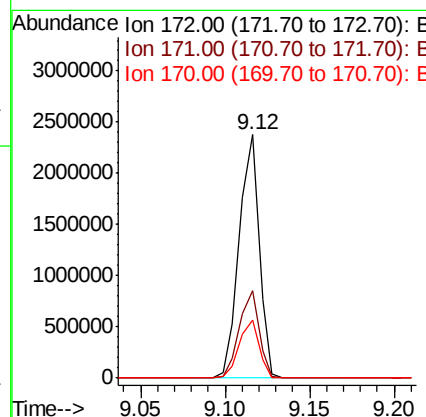
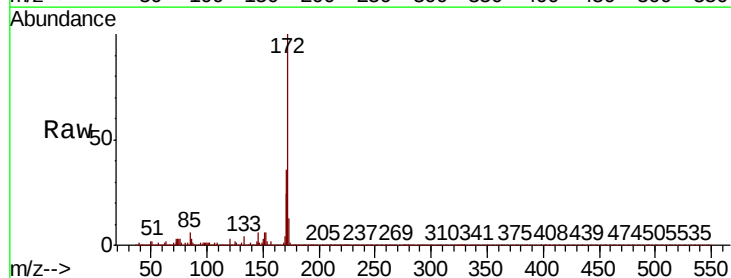
Instrument :  
 BNA\_P  
 ClientSampleId :

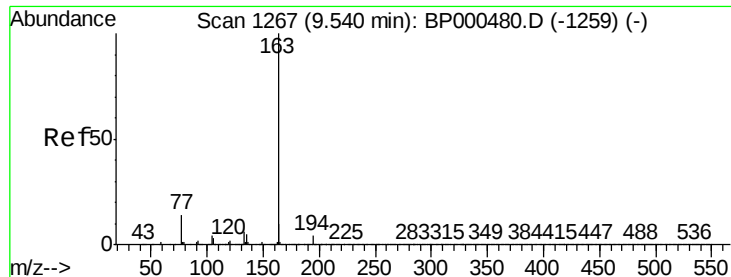
Tot Ion:330 Resp: 79145  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 77.1 115.7  
 141 34.4 26.0 39.0



#45  
 2-Fluorobiphenyl  
 Concen: 70.903 ng  
 RT: 9.12 min Scan# 1195  
 Delta R.T. -0.02 min  
 Lab File: BP000689.D  
 Acq: 13 Oct 2019 00:00

Tgt Ion:172 Resp: 1961716  
 Ion Ratio Lower Upper  
 172 100  
 171 35.9 28.4 42.6  
 170 23.7 19.1 28.7

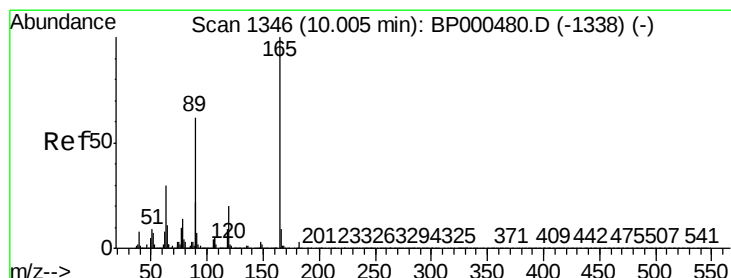
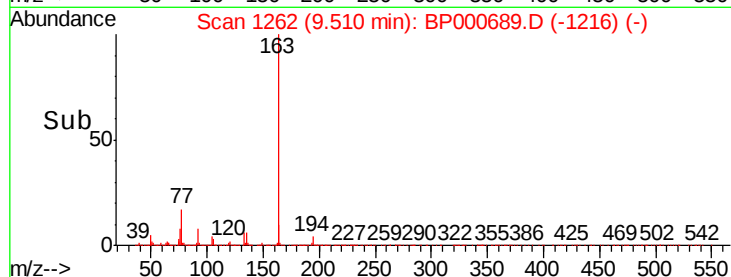
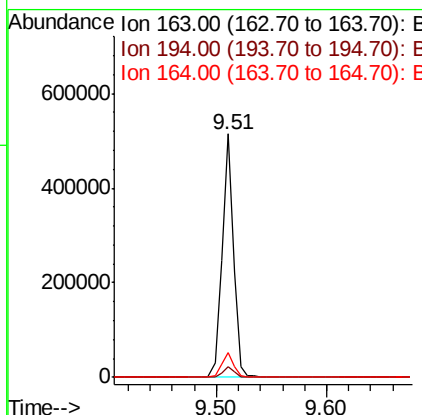
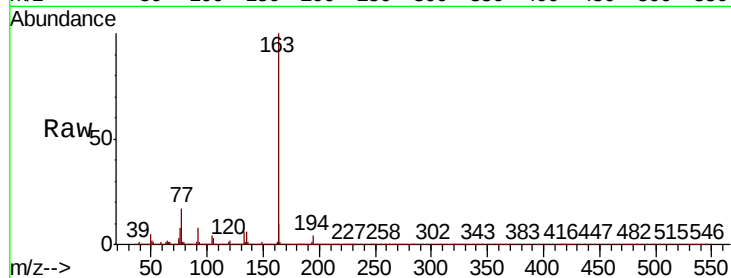




#50  
Dimethylphthalate  
Concen: 11.924 ng  
RT: 9.51 min Scan# 1262  
Delta R.T. -0.03 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

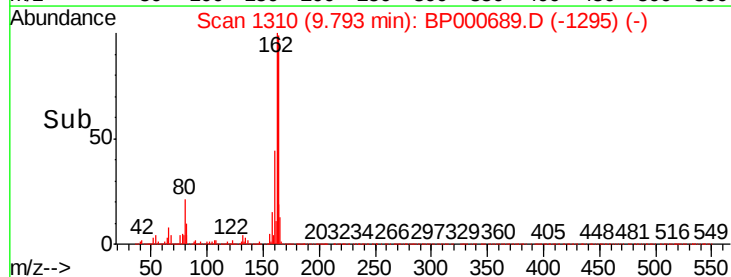
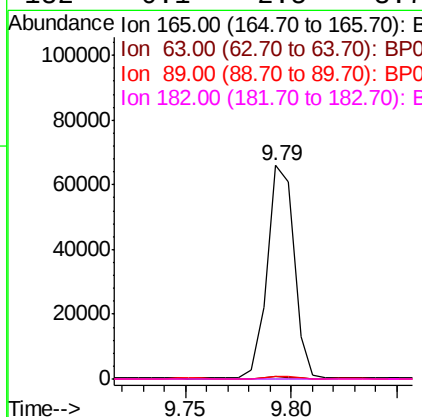
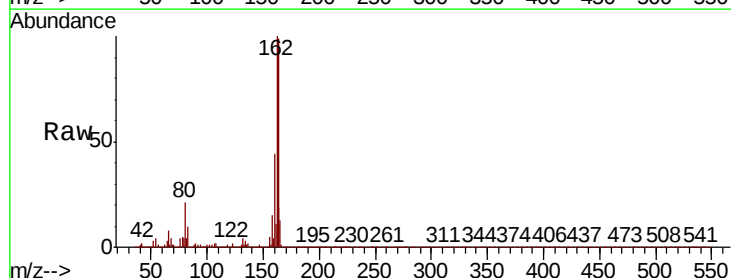
Instrument :  
BNA\_P  
ClientSampleId :

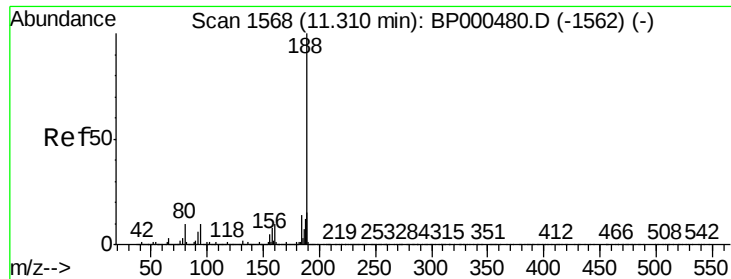
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.4   | 5.2   |
| 164     | 10.2  | 8.0   | 12.0  |



#57  
2,4-Dinitrotoluene  
Concen: 6.519 ng  
RT: 9.79 min Scan# 1310  
Delta R.T. -0.21 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 24.2  | 36.4# |
| 89      | 1.4   | 49.4  | 74.0# |
| 182     | 0.1   | 2.5   | 3.7#  |

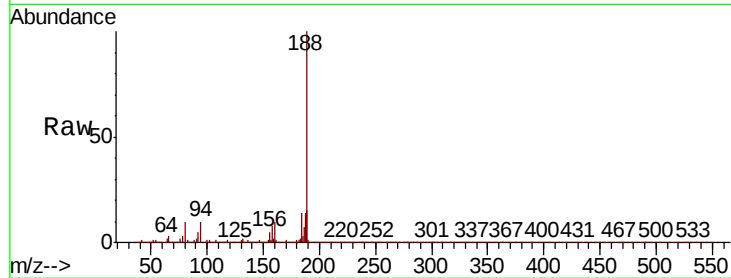




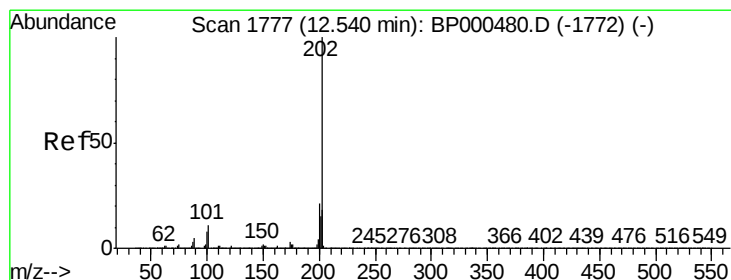
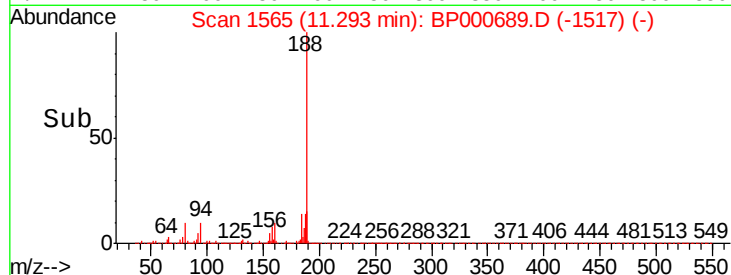
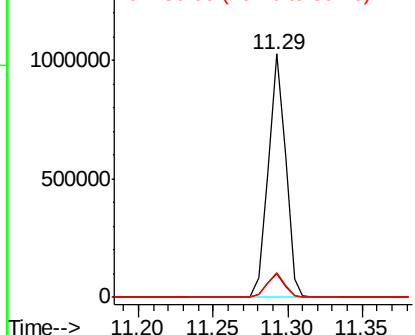
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.29 min Scan# 1565  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

Instrument :  
BNA\_P  
ClientSampled :

Tot Ion:188 Resp: 820314  
Ion Ratio Lower Upper  
188 100  
94 9.7 8.2 12.2  
80 10.1 8.3 12.5

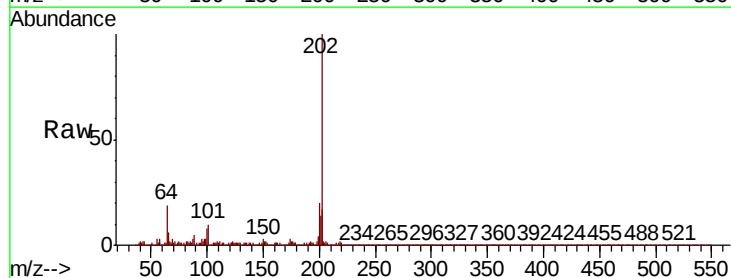


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BP0  
Ion 80.00 (79.70 to 80.70): BP0

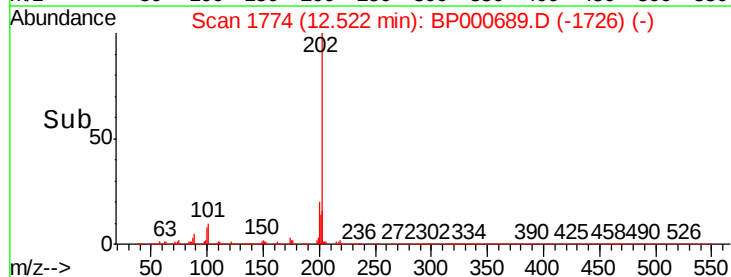
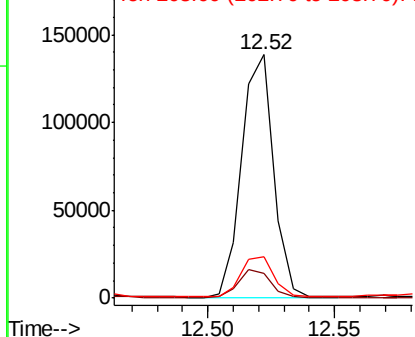


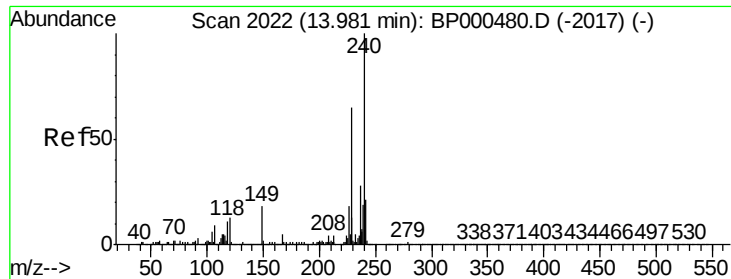
#75  
Fluoranthene  
Concen: 2.610 ng  
RT: 12.52 min Scan# 1774  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

Tgt Ion:202 Resp: 120763  
Ion Ratio Lower Upper  
202 100  
101 10.4 0.0 31.3  
203 16.9 0.0 38.1



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

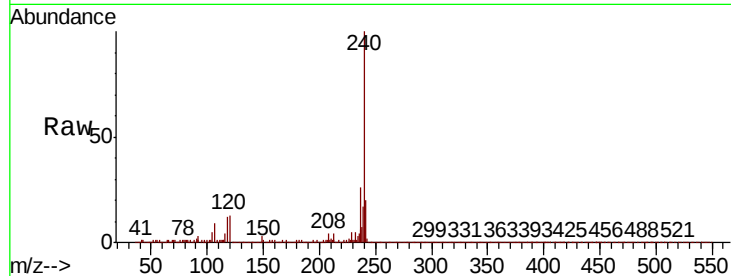




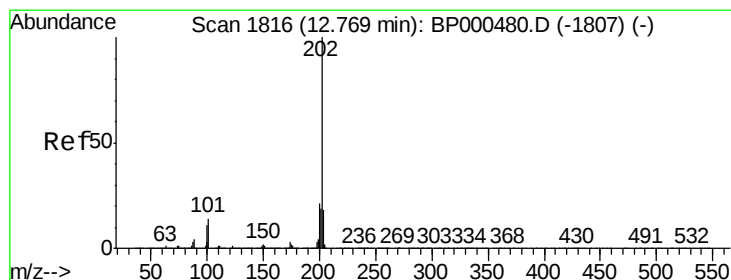
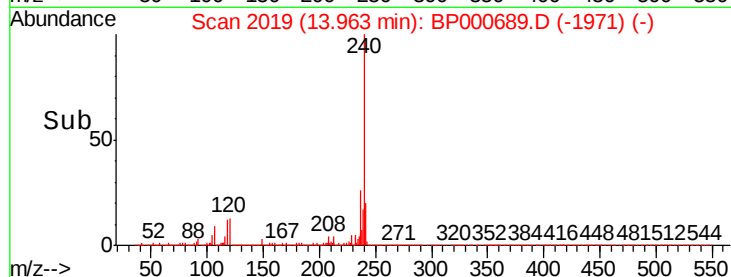
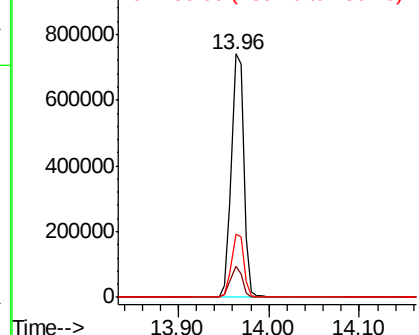
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

Instrument :  
BNA\_P  
ClientSampled :

Tot Ion:240 Resp: 702982  
Ion Ratio Lower Upper  
240 100  
120 13.0 10.1 15.1  
236 26.1 22.7 34.1

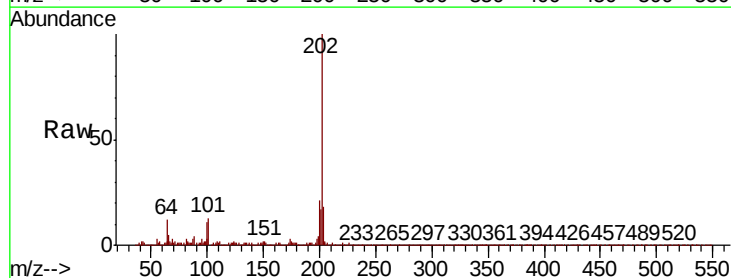


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

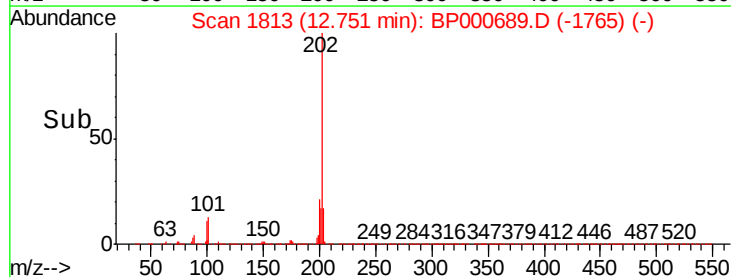
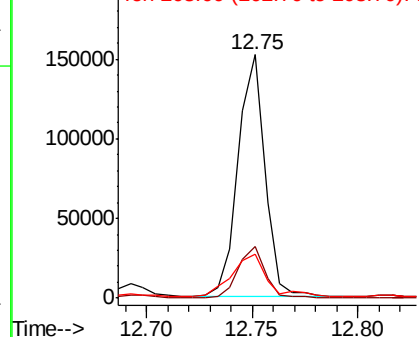


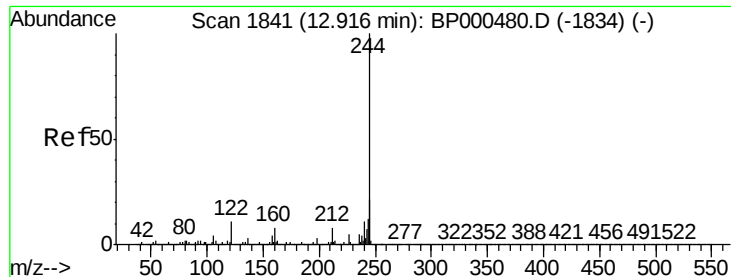
#78  
Pyrene  
Concen: 2.760 ng  
RT: 12.75 min Scan# 1813  
Delta R.T. -0.02 min  
Lab File: BP000689.D  
Acq: 13 Oct 2019 00:00

Tgt Ion:202 Resp: 133839  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.1 25.7  
203 17.9 14.6 21.8



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: 63.433 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.02 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

Instrument :

BNA\_P

ClientSampleId :

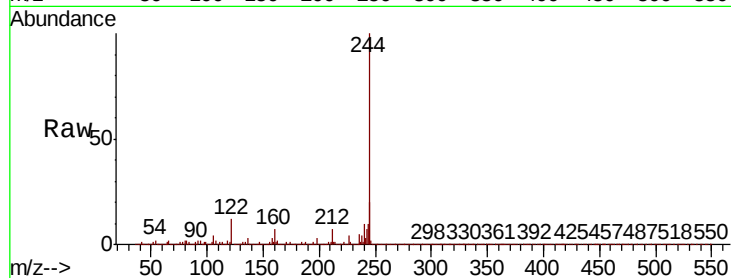
Tot Ion:244 Resp: 2202398

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

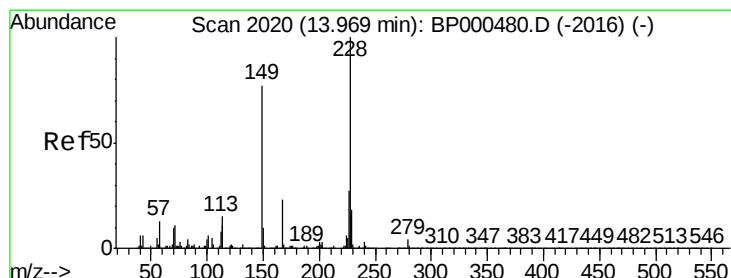
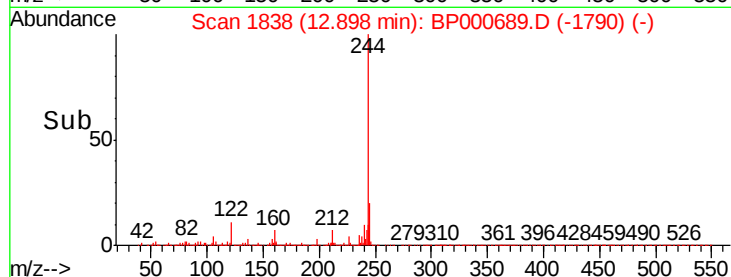
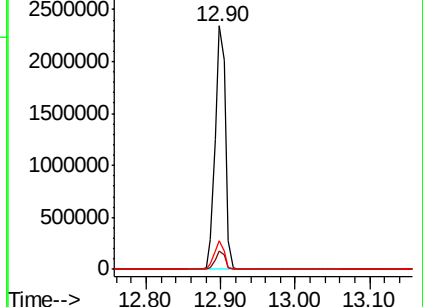
122 11.5 8.9 13.3



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.067 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

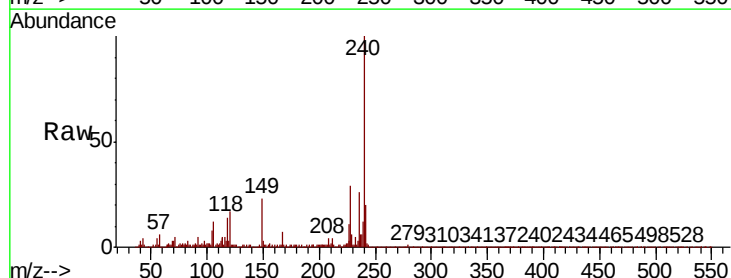
Tgt Ion:149 Resp: 54922

Ion Ratio Lower Upper

149 100

167 28.8 23.6 35.4

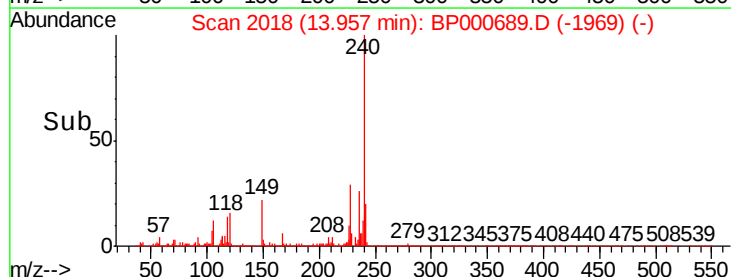
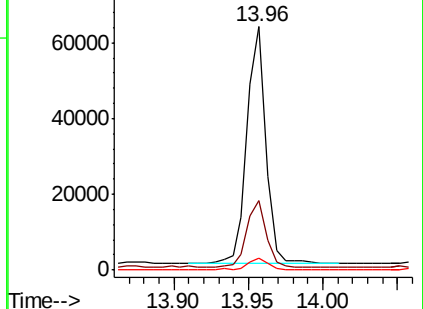
279 4.8 3.9 5.9

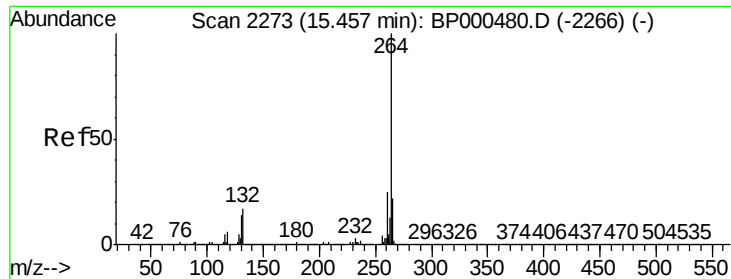


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. -0.02 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

Instrument :

BNA\_P

ClientSampleId :

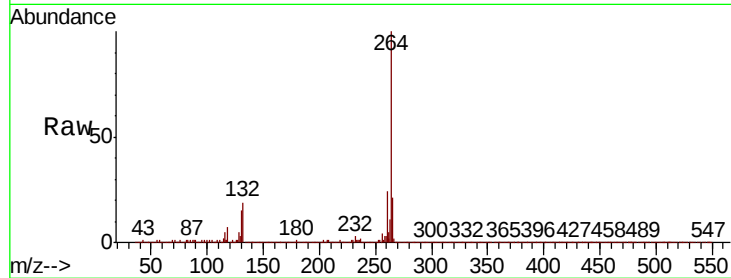
Tot Ion:264 Resp: 771255

Ion Ratio Lower Upper

264 100

260 23.8 20.3 30.5

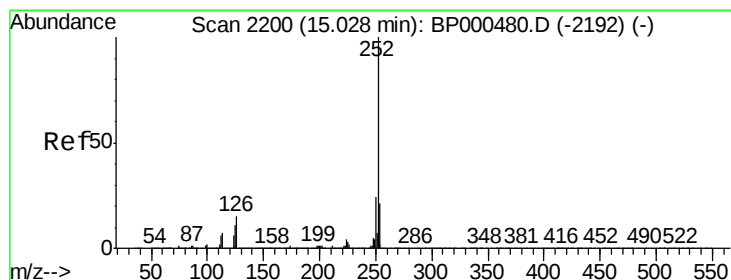
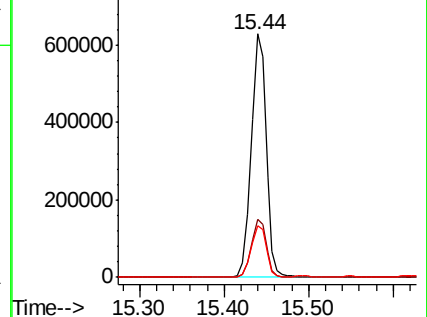
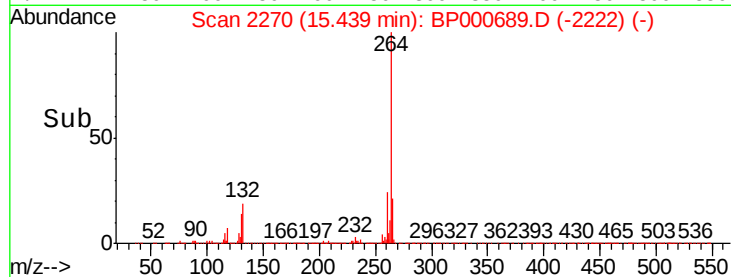
265 21.3 18.0 27.0



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: 3.389 ng

RT: 15.02 min Scan# 2198

Delta R.T. -0.01 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

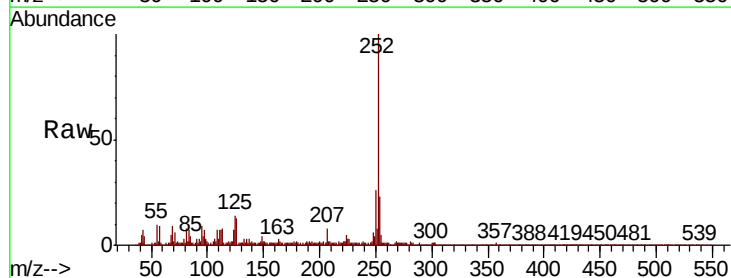
Tgt Ion:252 Resp: 148308

Ion Ratio Lower Upper

252 100

253 23.0 17.0 25.4

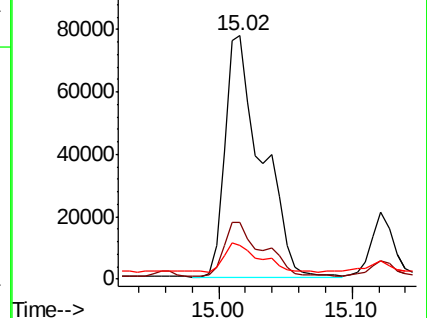
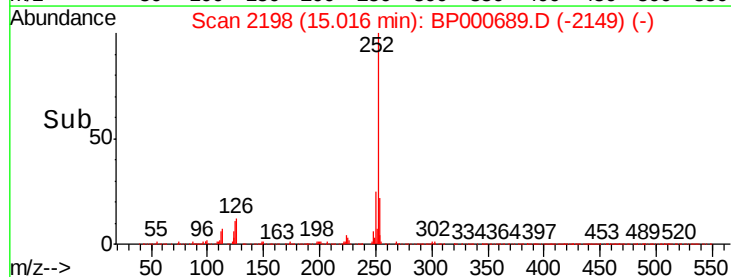
125 13.7 8.9 13.3#

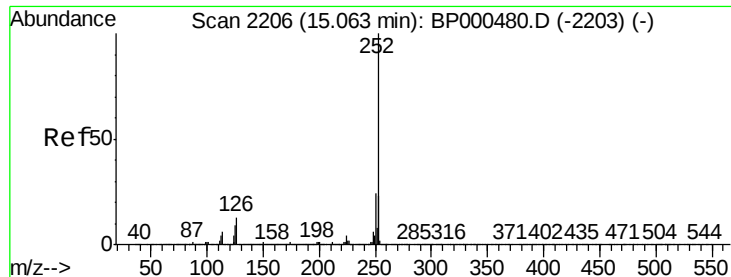


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 3.560 ng

RT: 15.02 min Scan# 2198

Delta R.T. -0.05 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

Instrument :

BNA\_P

ClientSampled :

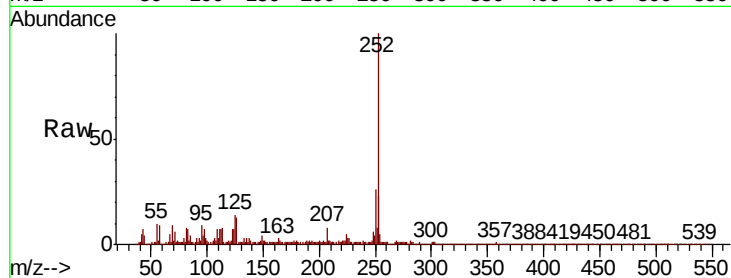
Tot Ion:252 Resp: 148308

Ion Ratio Lower Upper

252 100

253 23.0 18.4 27.6

125 13.7 7.8 11.8#

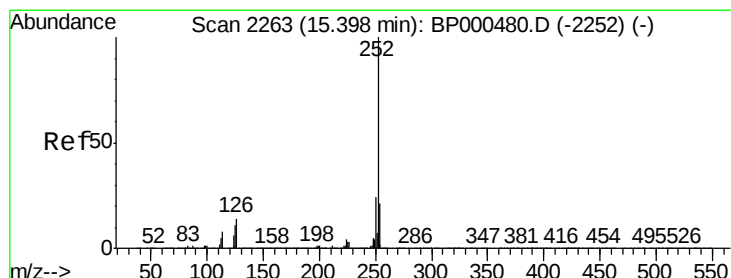
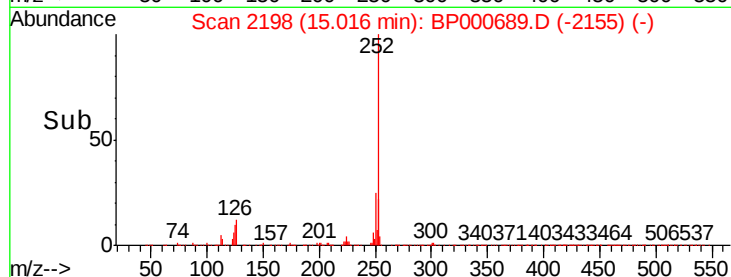
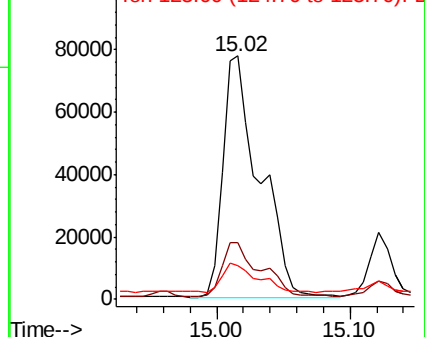


Abundance

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



#90

Benzo(a)pyrene

Concen: 2.165 ng

RT: 15.37 min Scan# 2259

Delta R.T. -0.02 min

Lab File: BP000689.D

Acq: 13 Oct 2019 00:00

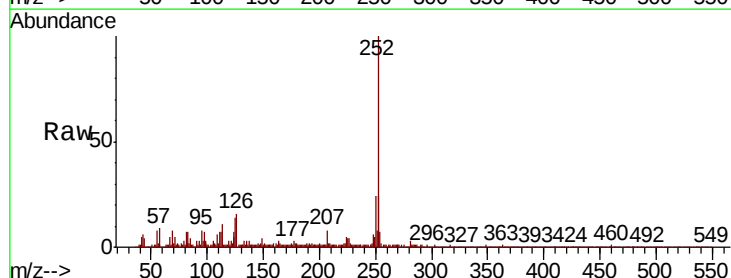
Tgt Ion:252 Resp: 88327

Ion Ratio Lower Upper

252 100

253 23.8 17.0 25.6

125 13.8 8.4 12.6#



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

