

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081420\  
 Data File : BF121291.D  
 Acq On : 14 Aug 2020 18:18  
 Operator : JU/CG  
 Sample : L3504-01DL 25X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-081120DL

Quant Time: Aug 14 18:46:22 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 13 15:23:26 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 71632    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.99  | 136  | 282812   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 9.74  | 164  | 151378   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.22 | 188  | 315074   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 13.86 | 240  | 309675   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.27 | 264  | 323082   | 20.00 | ng    | -0.02    |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 5) 2-Fluorophenol           | 5.30  | 112 | 12512 | 2.65 | ng | 0.00  |
| 7) Phenol-d6                | 6.34  | 99  | 16697 | 2.74 | ng | -0.02 |
| 23) Nitrobenzene-d5         | 7.27  | 82  | 10267 | 1.98 | ng | -0.02 |
| 42) 2,4,6-Tribromophenol    | 10.53 | 330 | 4523  | 2.43 | ng | -0.02 |
| 45) 2-Fluorobiphenyl        | 9.06  | 172 | 26004 | 2.38 | ng | -0.02 |
| 79) Terphenyl-d14           | 12.80 | 244 | 34139 | 2.15 | ng | -0.02 |

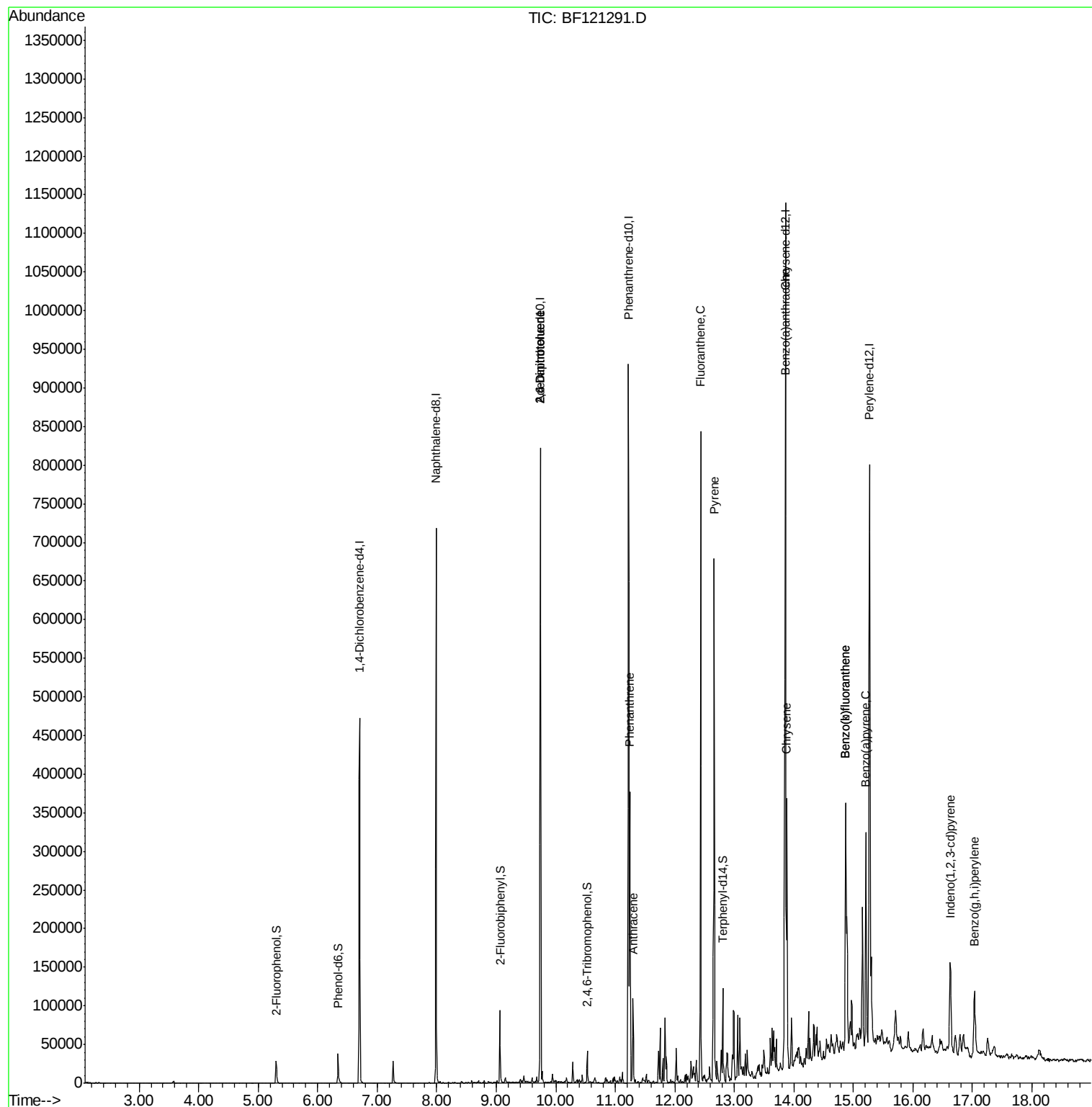
|                            |       |     |        |        |    |      |
|----------------------------|-------|-----|--------|--------|----|------|
| Target Compounds           |       |     |        | Qvalue |    |      |
| 51) 2,6-Dinitrotoluene     | 9.74  | 165 | 19177  | 7.552  | ng | # 26 |
| 57) 2,4-Dinitrotoluene     | 9.74  | 165 | 19177  | 5.755  | ng | # 27 |
| 71) Phenanthrene           | 11.24 | 178 | 128182 | 7.111  | ng | 99   |
| 72) Anthracene             | 11.30 | 178 | 38164  | 2.110  | ng | 99   |
| 75) Fluoranthene           | 12.43 | 202 | 308045 | 15.348 | ng | 99   |
| 78) Pyrene                 | 12.66 | 202 | 282238 | 12.239 | ng | 100  |
| 81) Benzo(a)anthracene     | 13.84 | 228 | 160111 | 7.623  | ng | 99   |
| 83) Chrysene               | 13.88 | 228 | 127611 | 5.951  | ng | 96   |
| 87) Indeno(1,2,3-cd)pyrene | 16.63 | 276 | 68589  | 2.855  | ng | 99   |
| 88) Benzo(b)fluoranthene   | 14.87 | 252 | 226475 | 10.462 | ng | 99   |
| 89) Benzo(k)fluoranthene   | 14.87 | 252 | 226475 | 11.266 | ng | 99   |
| 90) Benzo(a)pyrene         | 15.21 | 252 | 126331 | 6.466  | ng | 99   |
| 92) Benzo(a,h,i)perylene   | 17.03 | 276 | 67028  | 3.300  | ng | 99   |

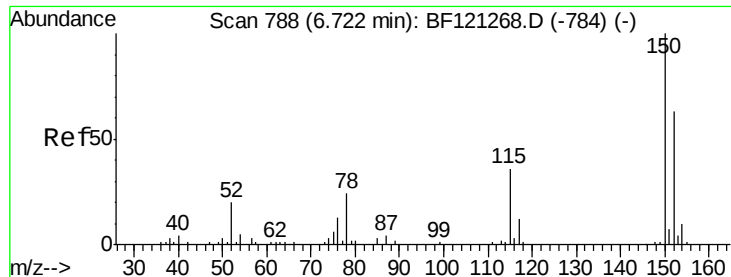
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 5 Sample Multiplier: 1

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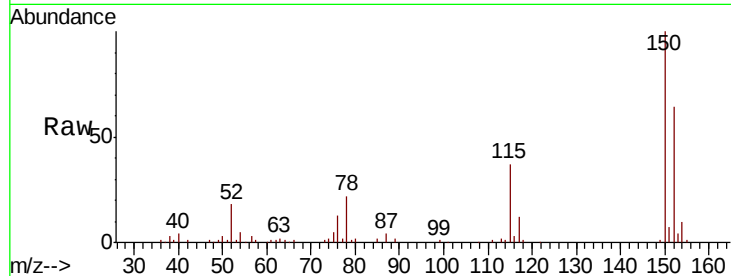


#1

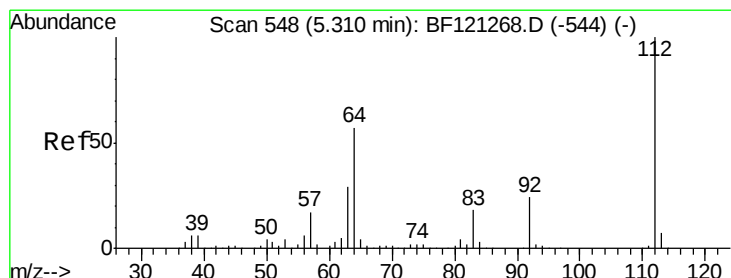
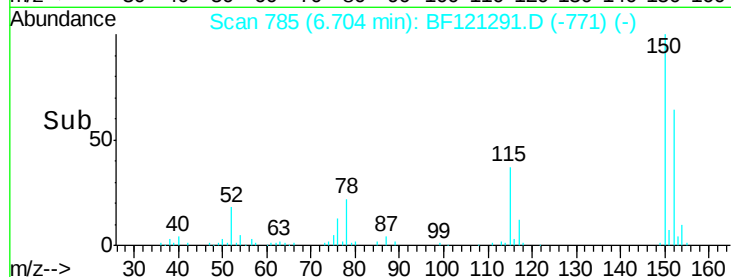
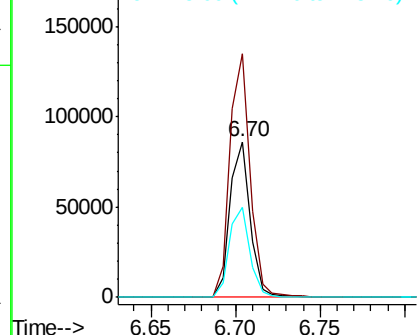
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. -0.02 min  
Lab File: BF121291.D  
Acq: 14 Aug 2020 18:18

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-081120DL

Tot Ion:152 Resp: 71632  
Ion Ratio Lower Upper  
152 100  
150 156.4 129.0 193.6  
115 57.5 49.0 73.4



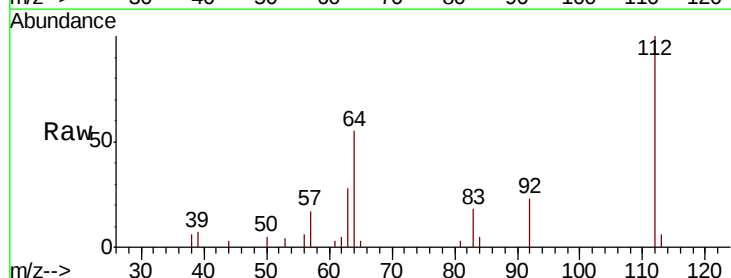
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



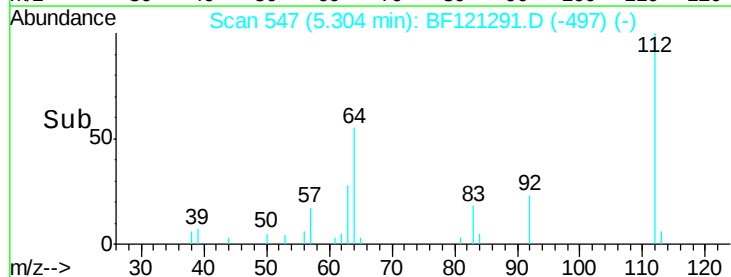
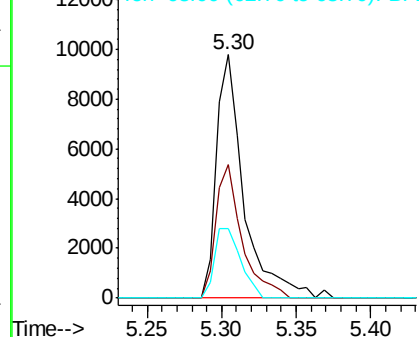
#5

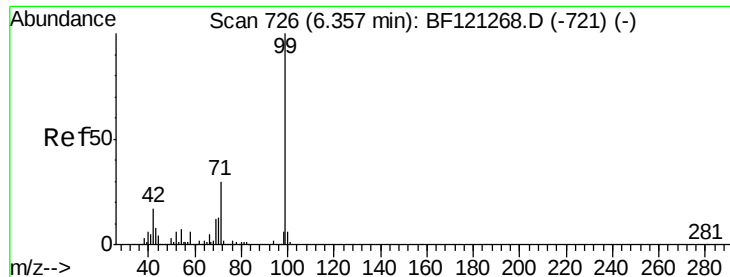
2-Fluorophenol  
Concen: 2.648 ng  
RT: 5.30 min Scan# 547  
Delta R.T. -0.01 min  
Lab File: BF121291.D  
Acq: 14 Aug 2020 18:18

Tgt Ion:112 Resp: 12512  
Ion Ratio Lower Upper  
112 100  
64 54.8 45.4 68.2  
63 28.3 23.0 34.6



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: 2.742 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF121291.D

Acq: 14 Aug 2020 18:18

Instrument :

BNA\_F

ClientSampleId :

EO-02-081120DL

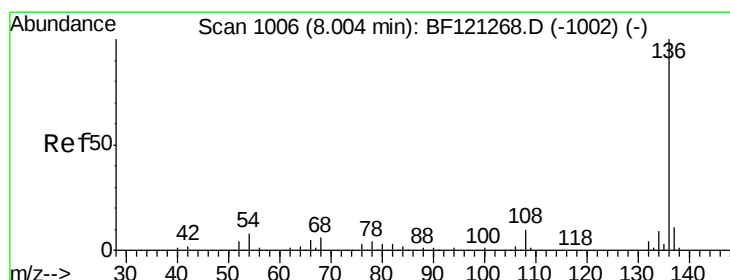
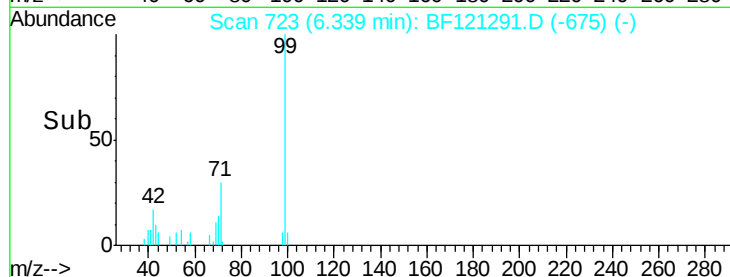
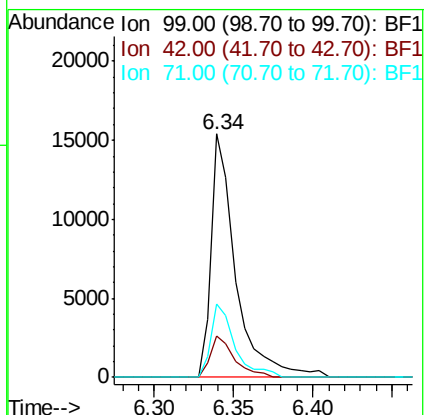
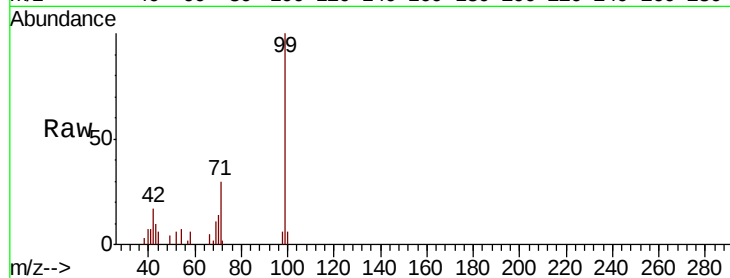
Tot Ion: 99 Resp: 16697

Ion Ratio Lower Upper

99 100

42 17.2 13.1 19.7

71 30.1 23.7 35.5



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1003

Delta R.T. -0.02 min

Lab File: BF121291.D

Acq: 14 Aug 2020 18:18

Tgt Ion: 136 Resp: 282812

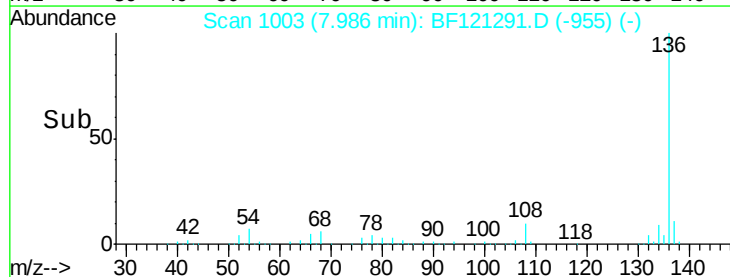
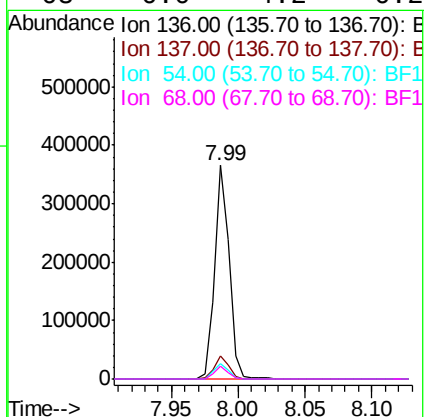
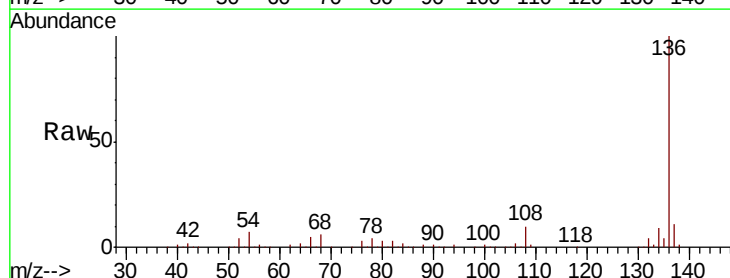
Ion Ratio Lower Upper

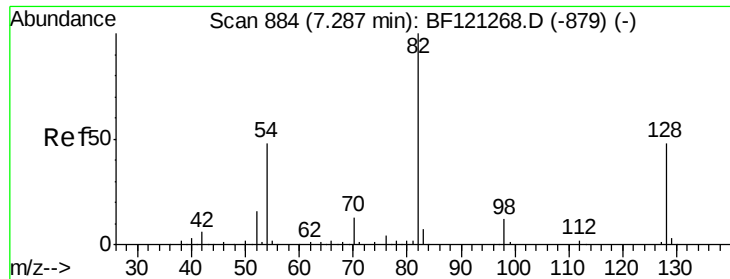
136 100

137 10.5 8.6 13.0

54 7.5 5.3 7.9

68 6.0 4.2 6.2

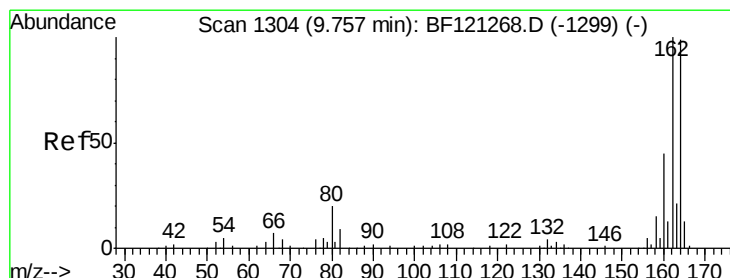
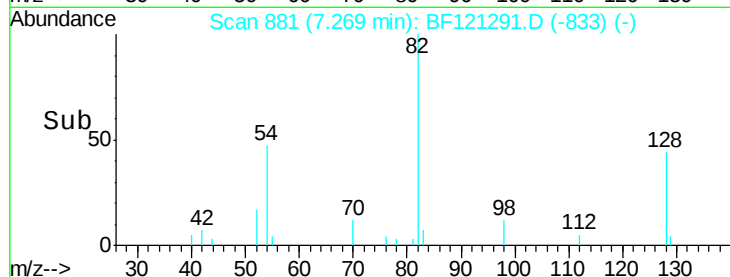
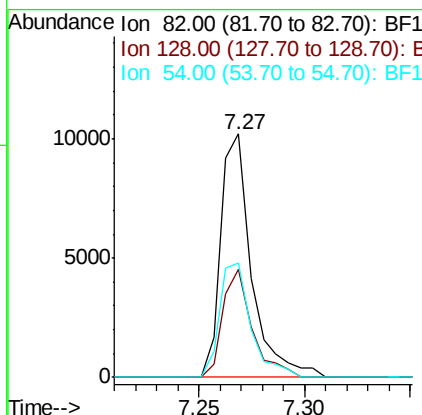
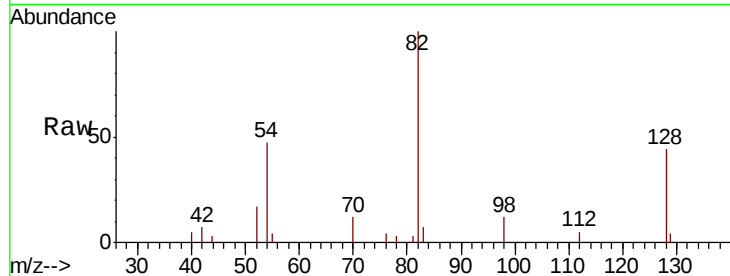




#23  
 Nitrobenzene-d5  
 Concen: 1.984 ng  
 RT: 7.27 min Scan# 881  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

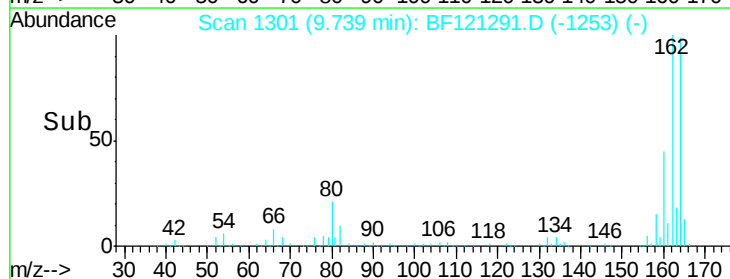
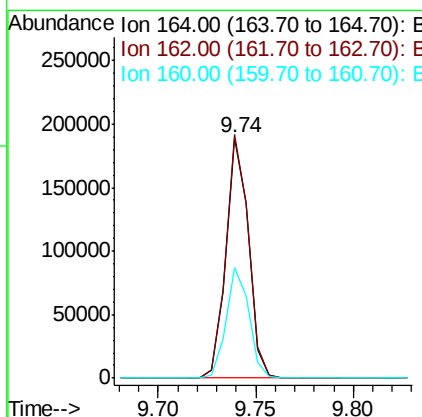
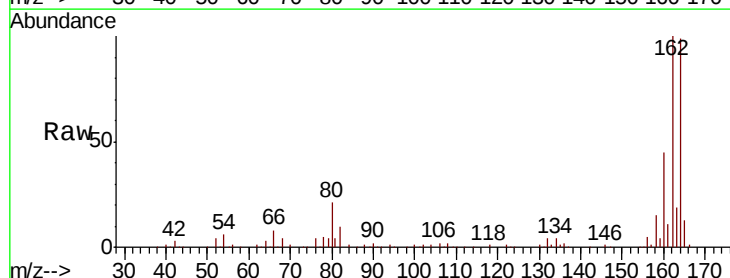
Instrument :  
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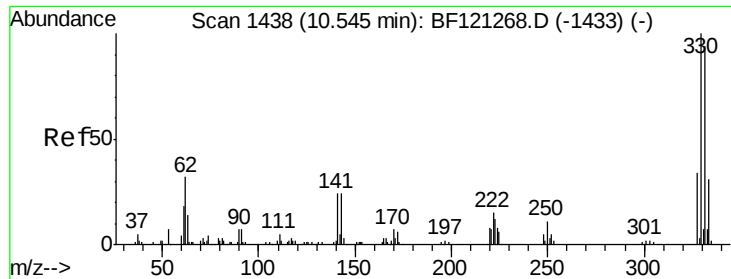
| Tot Ion   | 82    | Resp  | 10267 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 44.5  | 39.8  | 59.8  |
| 54        | 47.2  | 37.7  | 56.5  |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.74 min Scan# 1301  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

| Tgt Ion   | 164   | Resp  | 151378 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 101.3 | 81.2  | 121.8  |
| 160       | 46.1  | 36.9  | 55.3   |

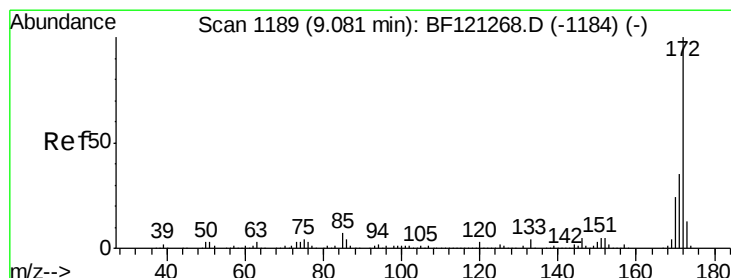
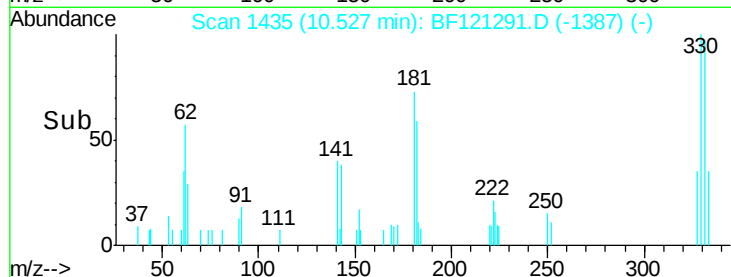
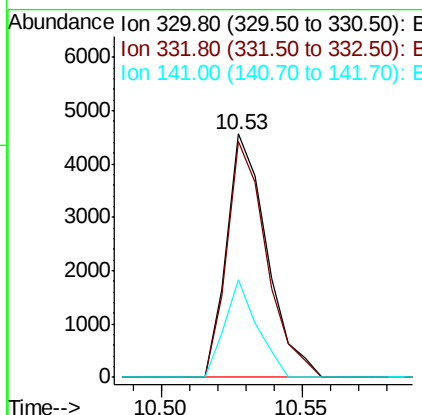
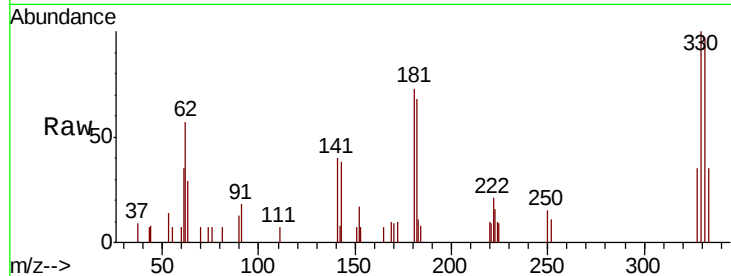




#42  
 2,4,6-Tribromophenol  
 Concen: 2.427 ng  
 RT: 10.53 min Scan# 1435  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

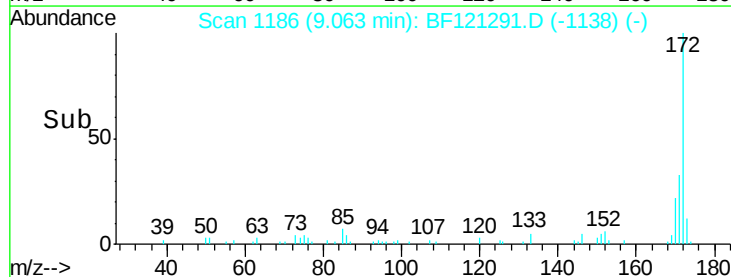
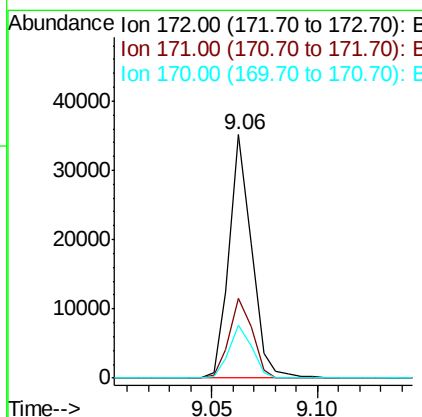
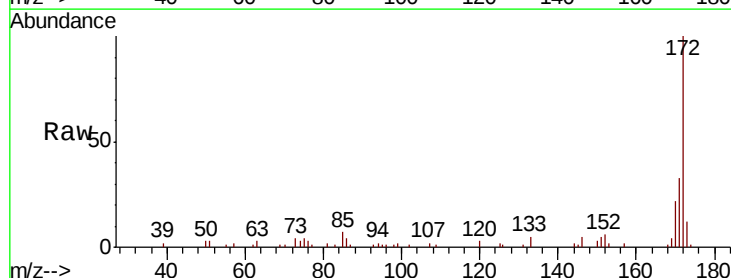
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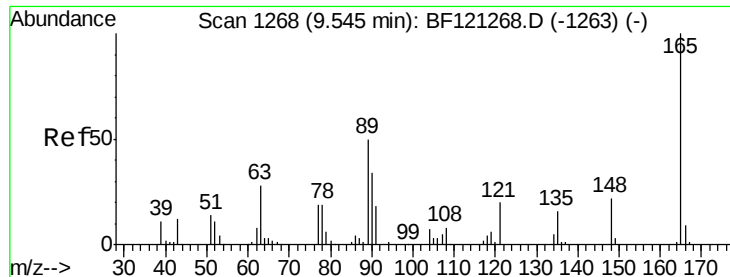
Tot Ion:330 Resp: 4523  
 Ion Ratio Lower Upper  
 330 100  
 332 95.1 75.4 113.0  
 141 32.2 23.4 35.2



#45  
 2-Fluorobiphenyl  
 Concen: 2.376 ng  
 RT: 9.06 min Scan# 1186  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

Tgt Ion:172 Resp: 26004  
 Ion Ratio Lower Upper  
 172 100  
 171 32.6 28.3 42.5  
 170 22.0 19.3 28.9

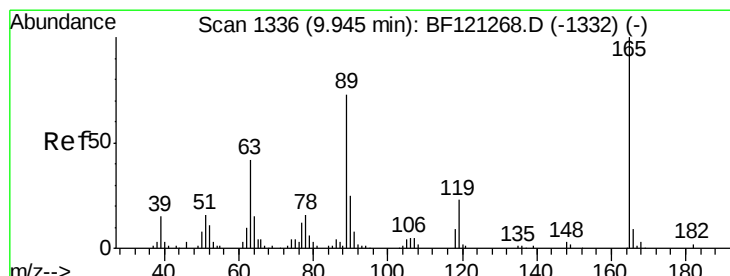
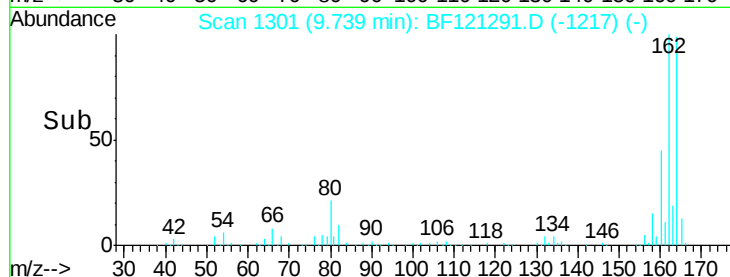
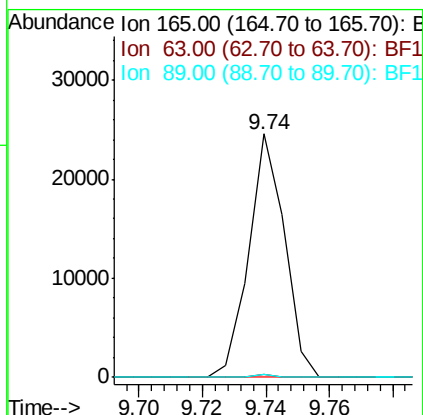
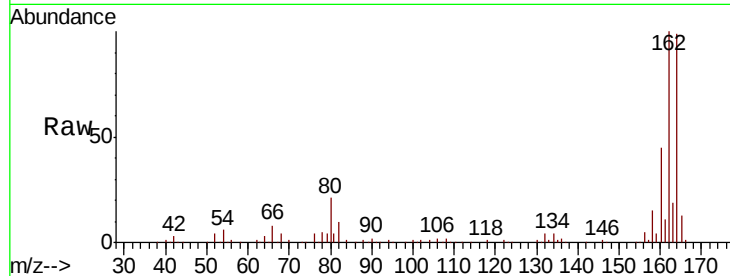




#51  
 2,6-Dinitrotoluene  
 Concen: 7.552 ng  
 RT: 9.74 min Scan# 1301  
 Delta R.T. 0.19 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

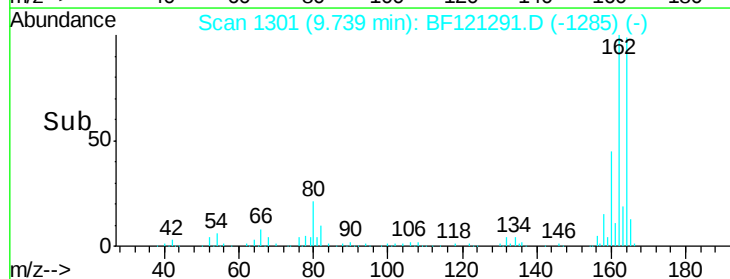
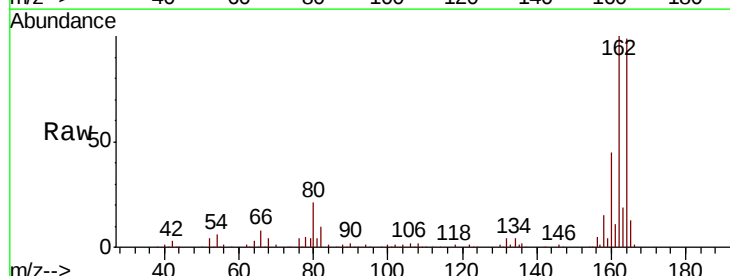
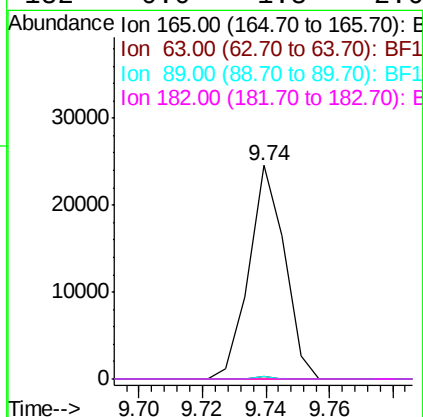
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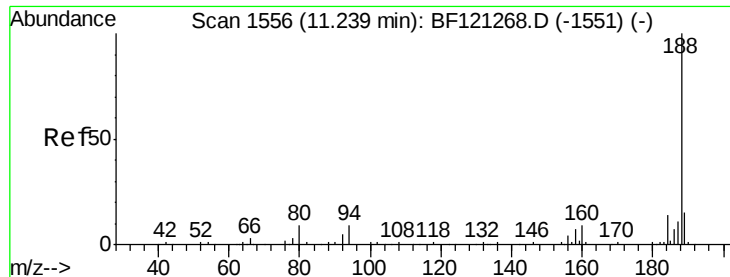
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 42.3  | 63.5# |
| 89      | 1.3   | 45.0  | 67.4# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.755 ng  
 RT: 9.74 min Scan# 1301  
 Delta R.T. -0.21 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 31.9  | 47.9# |
| 89      | 1.3   | 53.6  | 80.4# |
| 182     | 0.0   | 1.8   | 2.6#  |

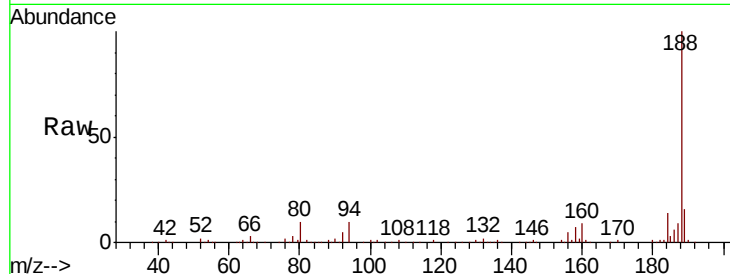




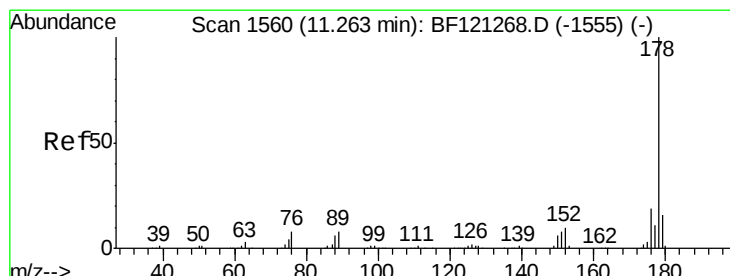
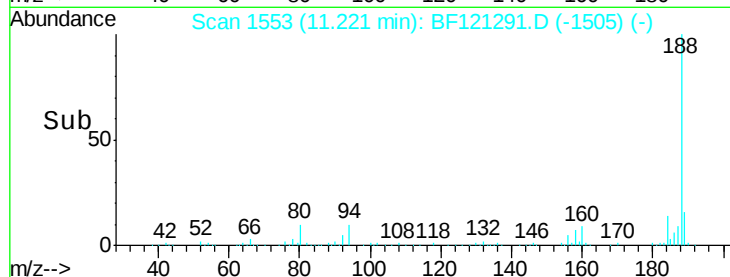
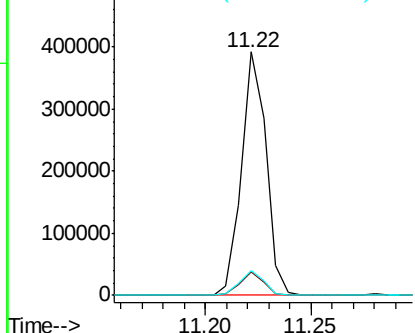
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.22 min Scan# 1553  
Delta R.T. -0.02 min  
Lab File: BF121291.D  
Acq: 14 Aug 2020 18:18

Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-081120DL

Tot Ion:188 Resp: 315074  
Ion Ratio Lower Upper  
188 100  
94 9.9 7.0 10.6  
80 10.0 7.4 11.0

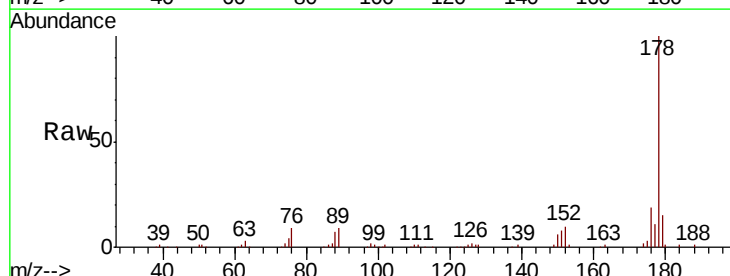


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

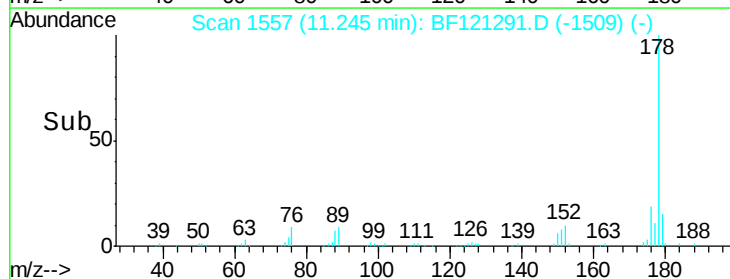
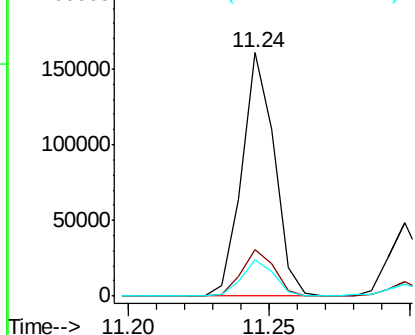


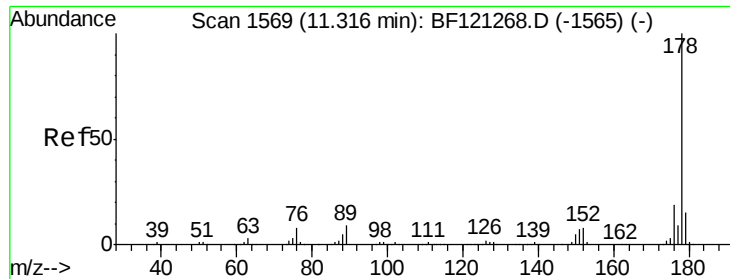
#71  
Phenanthrene  
Concen: 7.111 ng  
RT: 11.24 min Scan# 1557  
Delta R.T. -0.02 min  
Lab File: BF121291.D  
Acq: 14 Aug 2020 18:18

Tgt Ion:178 Resp: 128182  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.8 23.8  
179 15.1 12.6 19.0



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

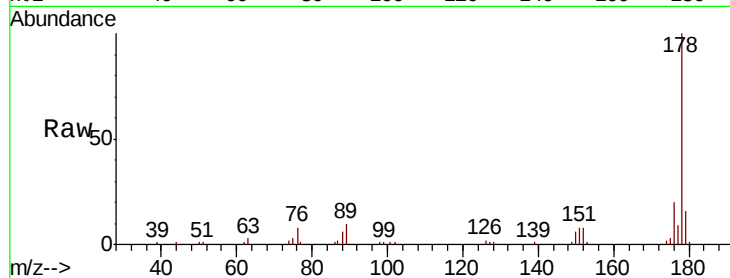




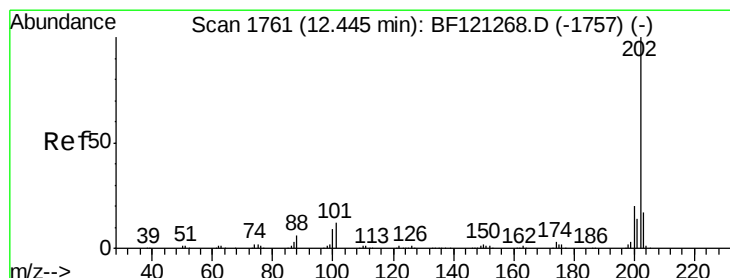
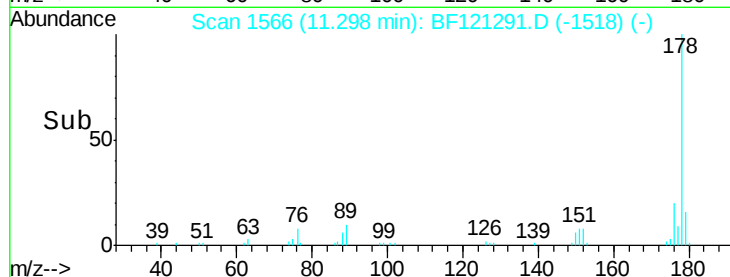
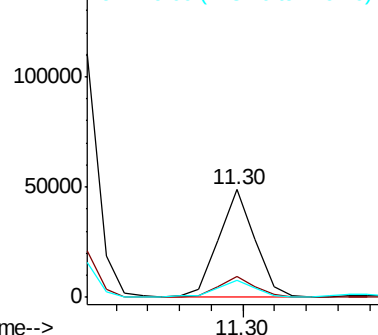
#72  
 Anthracene  
 Concen: 2.110 ng  
 RT: 11.30 min Scan# 1566  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-081120DL

Tot Ion:178 Resp: 38164  
 Ion Ratio Lower Upper  
 178 100  
 176 19.7 15.2 22.8  
 179 15.9 12.4 18.6

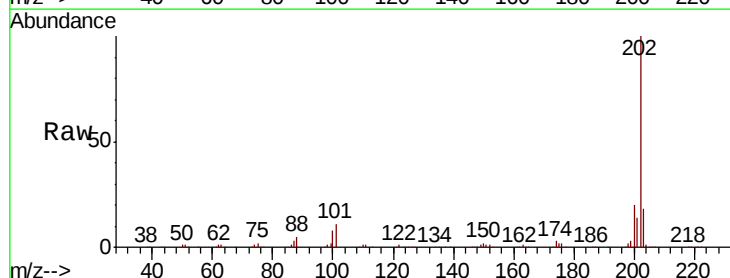


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

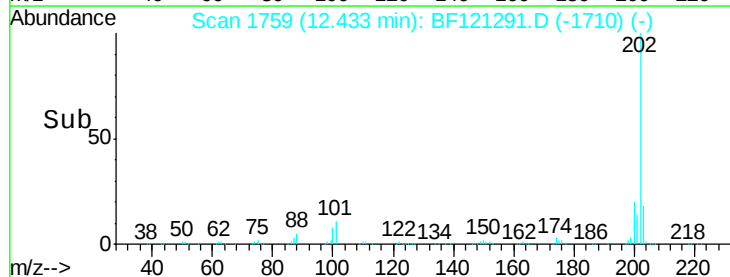
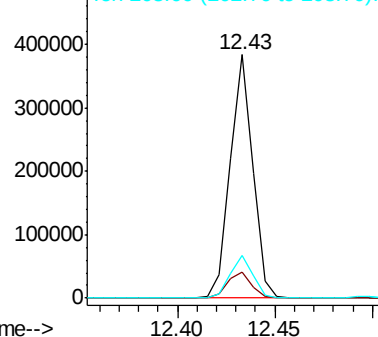


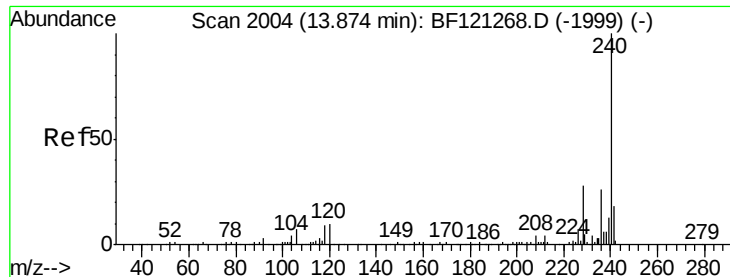
#75  
 Fluoranthene  
 Concen: 15.348 ng  
 RT: 12.43 min Scan# 1759  
 Delta R.T. -0.01 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

Tgt Ion:202 Resp: 308045  
 Ion Ratio Lower Upper  
 202 100  
 101 10.9 0.0 30.6  
 203 17.7 0.0 38.0



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# 2001

Delta R.T. -0.02 min

Lab File: BF121291.D

Acq: 14 Aug 2020 18:18

Instrument :

BNA\_F

ClientSampleId :

EO-02-081120DL

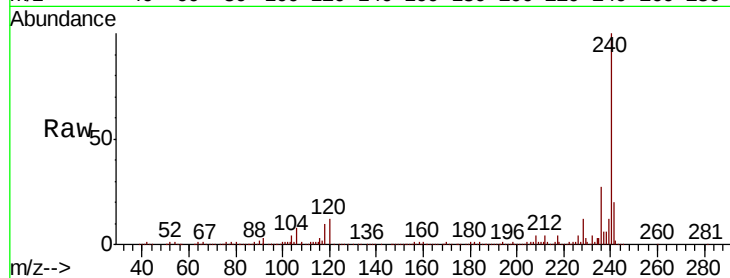
Tot Ion:240 Resp: 309675

Ion Ratio Lower Upper

240 100

120 11.7 9.2 13.8

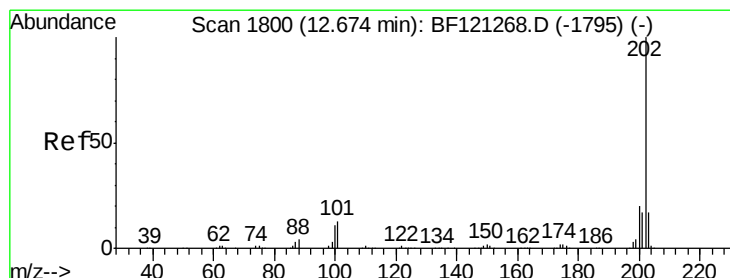
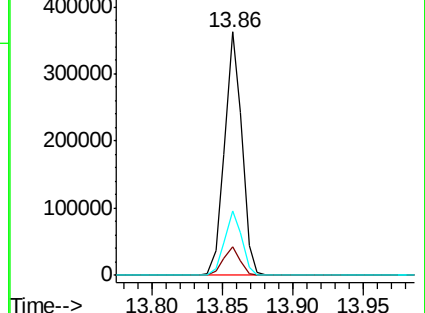
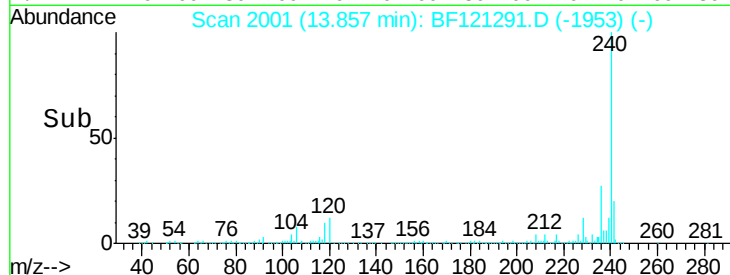
236 26.6 21.0 31.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 12.239 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.01 min

Lab File: BF121291.D

Acq: 14 Aug 2020 18:18

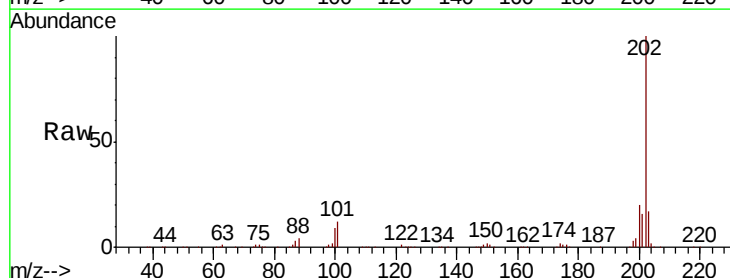
Tgt Ion:202 Resp: 282238

Ion Ratio Lower Upper

202 100

200 20.0 16.3 24.5

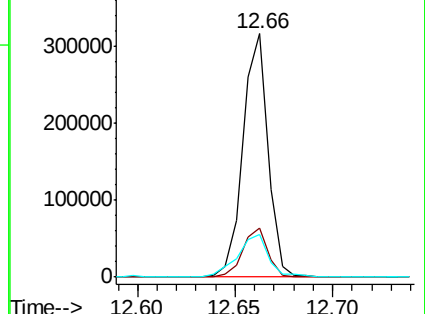
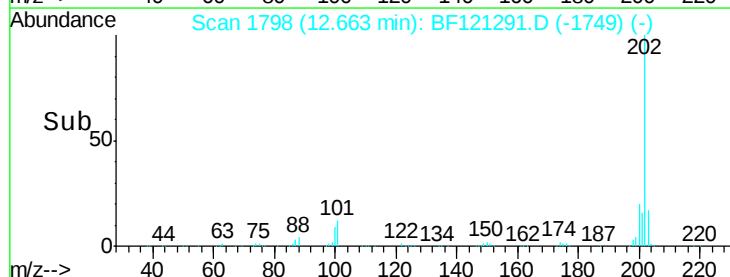
203 17.3 13.8 20.8

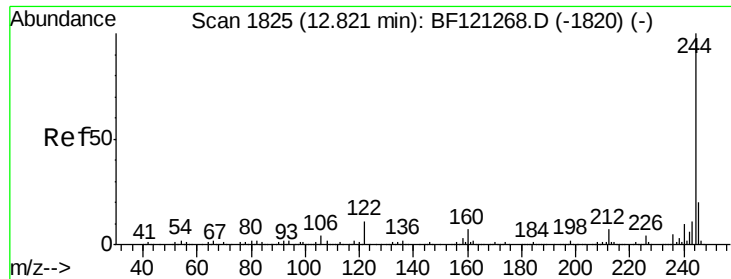


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

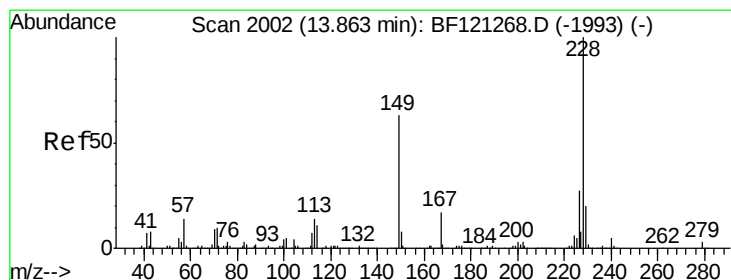
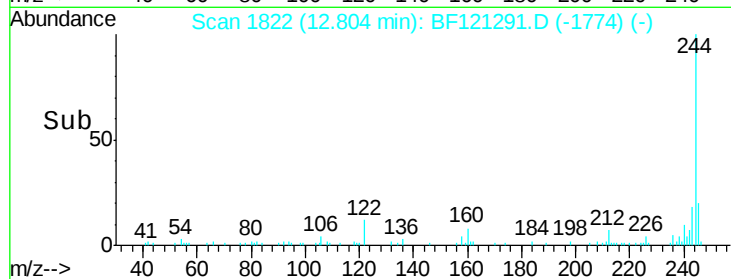
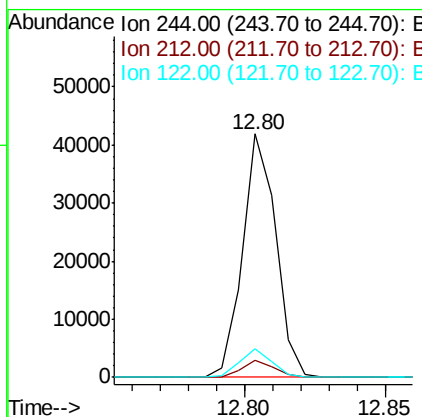
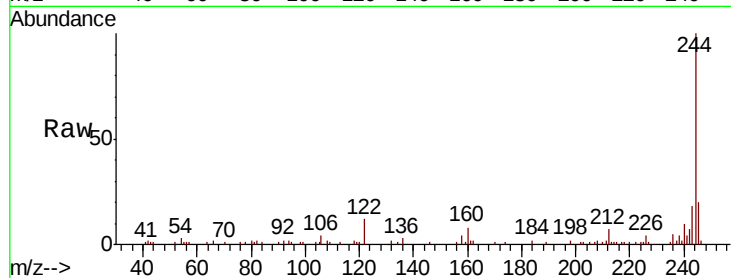




#79  
 Terphenyl-d14  
 Concen: 2.149 ng  
 RT: 12.80 min Scan# 1822  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

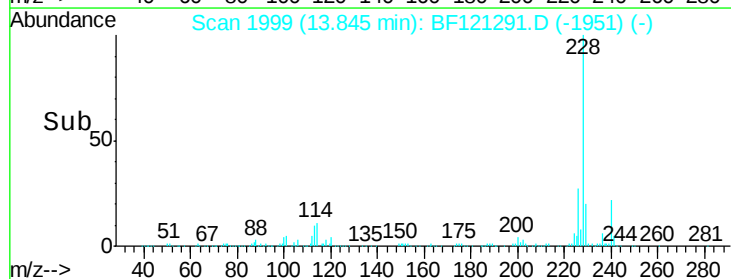
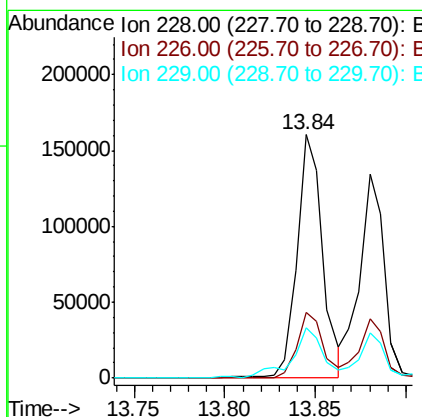
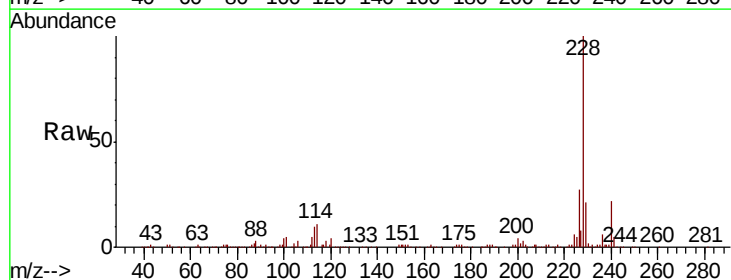
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-081120DL

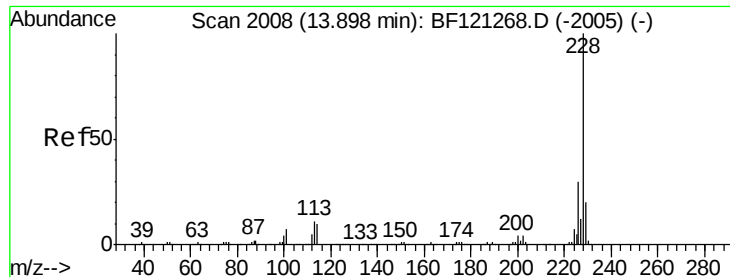
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.5   | 8.3   |
| 122     | 11.9  | 9.1   | 13.7  |



#81  
 Benzo(a)anthracene  
 Concen: 7.623 ng  
 RT: 13.84 min Scan# 1999  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.2  | 22.0  | 33.0  |
| 229     | 20.5  | 16.0  | 24.0  |





#83

Chrysene

Concen: 5.951 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF121291.D

Acq: 14 Aug 2020 18:18

Instrument :

BNA\_F

ClientSampleId :

EO-02-081120DL

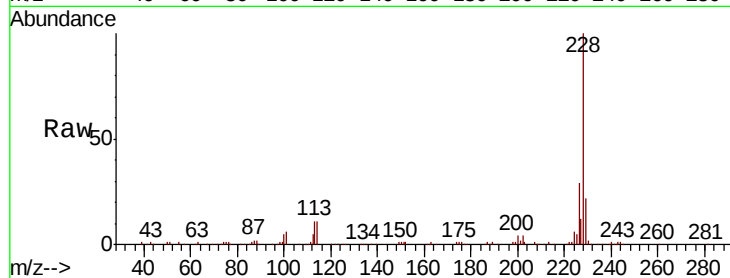
Tot Ion:228 Resp: 127611

Ion Ratio Lower Upper

228 100

226 29.3 24.8 37.2

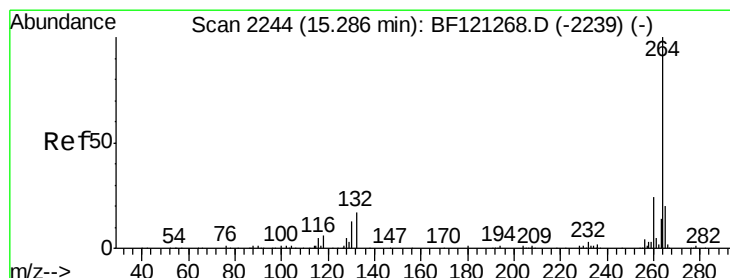
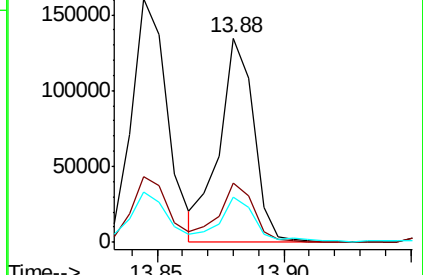
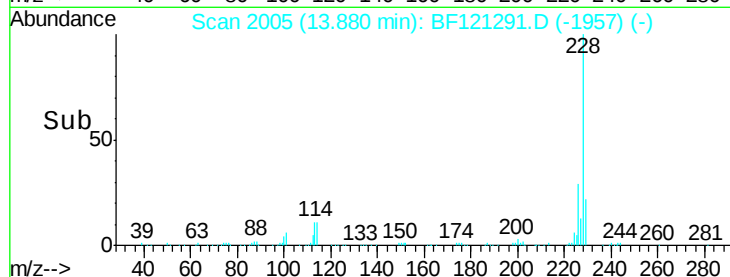
229 22.4 16.2 24.2



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

Perylene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2241

Delta R.T. -0.02 min

Lab File: BF121291.D

Acq: 14 Aug 2020 18:18

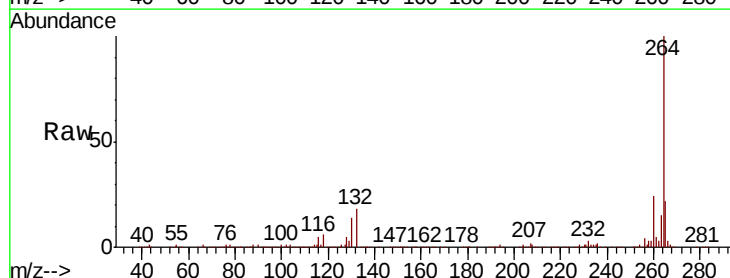
Tgt Ion:264 Resp: 323082

Ion Ratio Lower Upper

264 100

260 24.2 19.5 29.3

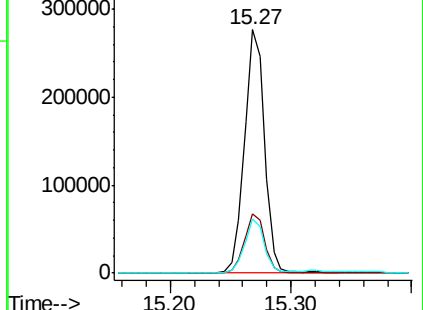
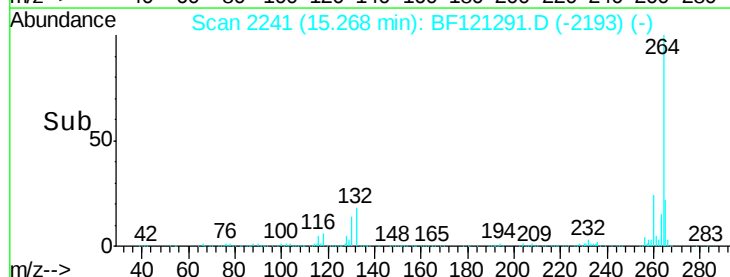
265 22.1 17.1 25.7

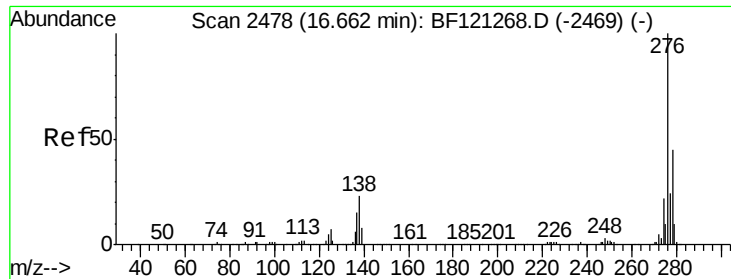


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

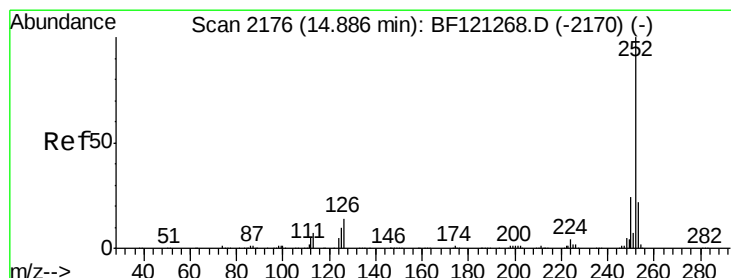
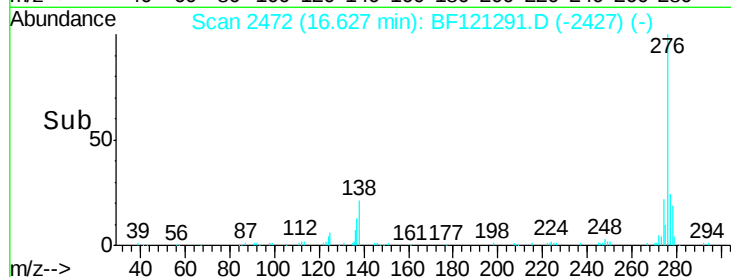
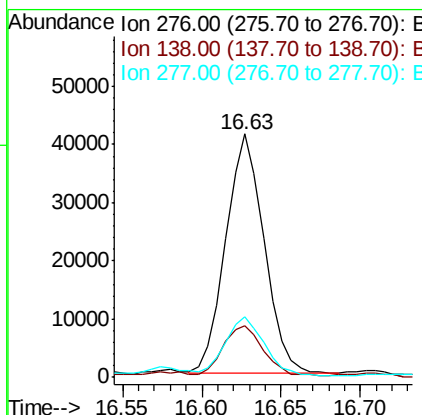
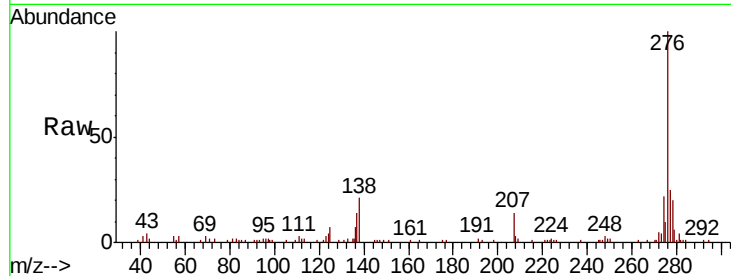




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.855 ng  
 RT: 16.63 min Scan# 2472  
 Delta R.T. -0.04 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

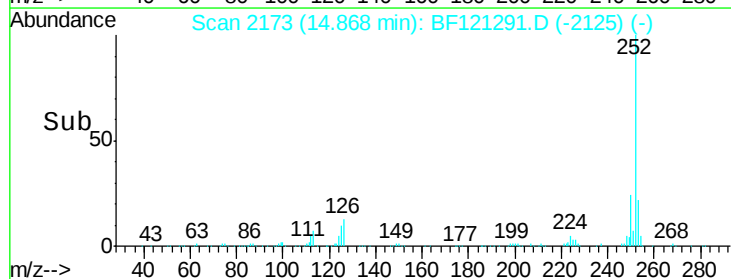
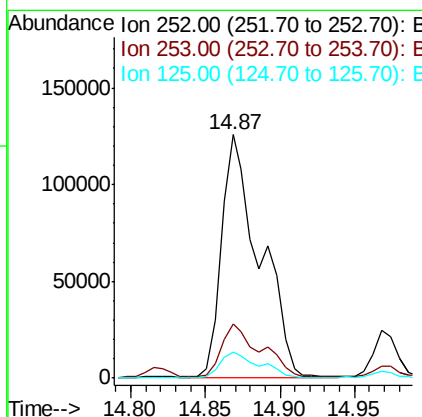
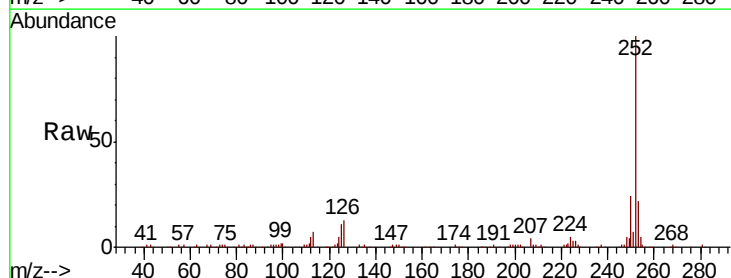
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-02-081120DL

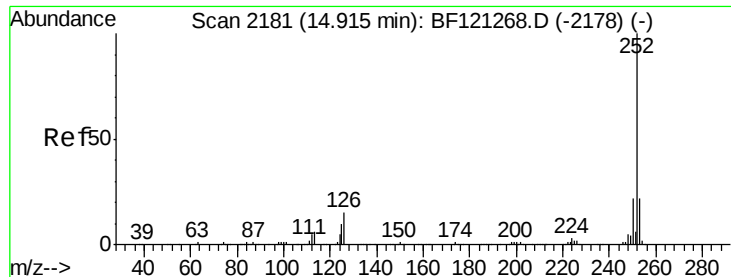
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.8  | 19.6  | 29.4  |
| 277     | 25.0  | 20.0  | 30.0  |



#88  
 Benzo(b)fluoranthene  
 Concen: 10.462 ng  
 RT: 14.87 min Scan# 2173  
 Delta R.T. -0.02 min  
 Lab File: BF121291.D  
 Acq: 14 Aug 2020 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.9  | 26.9  |
| 125     | 10.6  | 7.6   | 11.4  |

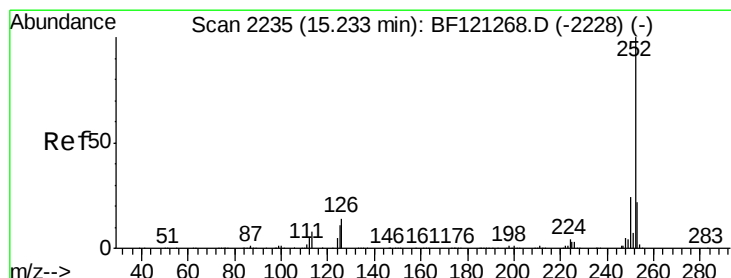
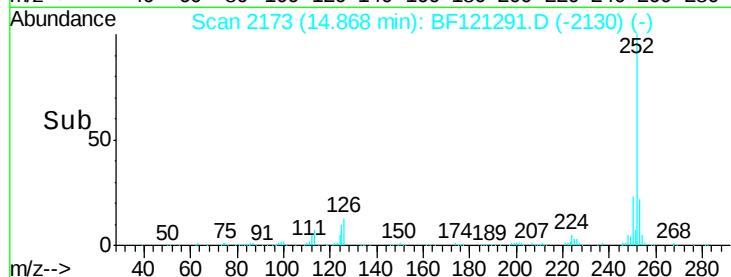
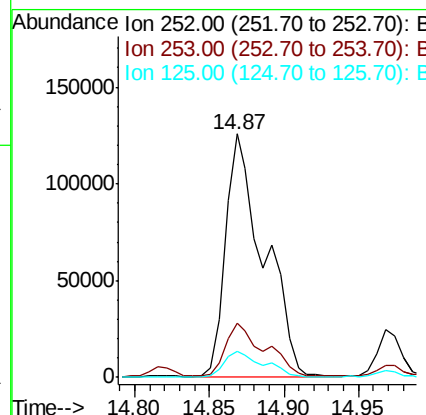
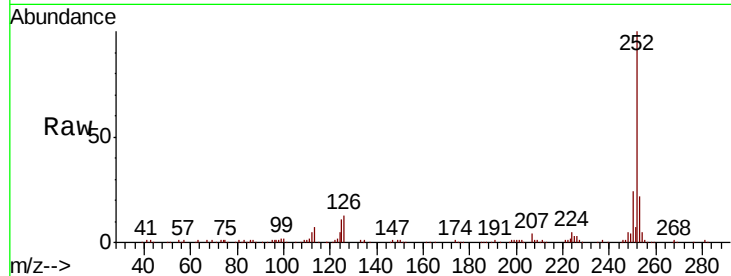




#89  
Benzo(k)fluoranthene  
Concen: 11.266 ng  
RT: 14.87 min Scan# 2173  
Delta R.T. -0.05 min  
Lab File: BF121291.D  
Acq: 14 Aug 2020 18:18

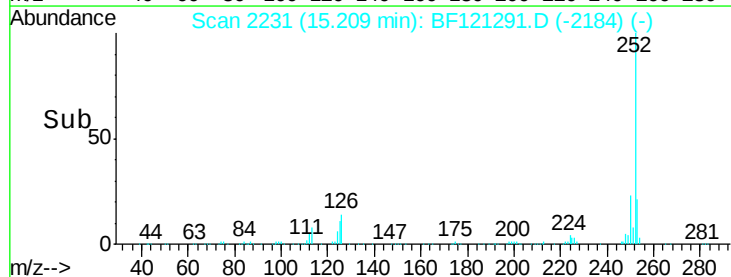
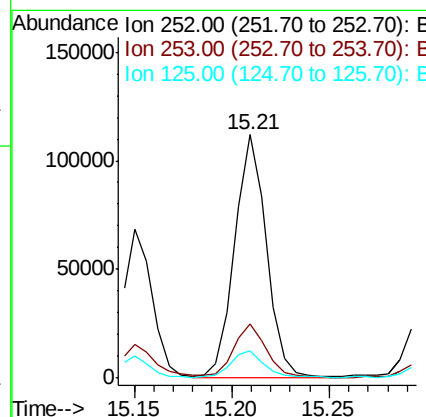
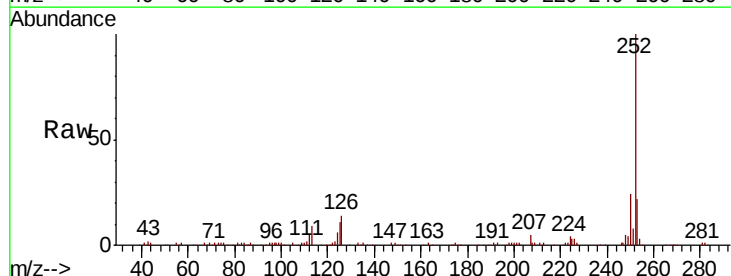
Instrument :  
BNA\_F  
ClientSampleId :  
EO-02-081120DL

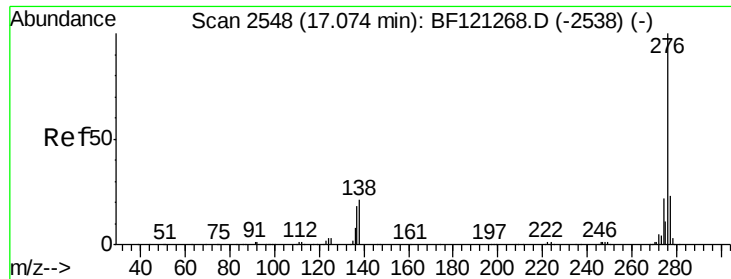
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 18.0  | 27.0  |
| 125     | 10.6  | 8.8   | 13.2  |



#90  
Benzo(a)pyrene  
Concen: 6.466 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. -0.02 min  
Lab File: BF121291.D  
Acq: 14 Aug 2020 18:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 18.0  | 27.0  |
| 125     | 11.0  | 9.3   | 13.9  |





#92

Benzo(a,h,i)perylene

Concen: 3.300 ng

RT: 17.03 min Scan# 2541

Delta R.T. -0.04 min

Lab File: BF121291.D

Acq: 14 Aug 2020 18:18

Instrument :

BNA\_F

ClientSampleId :

EO-02-081120DL

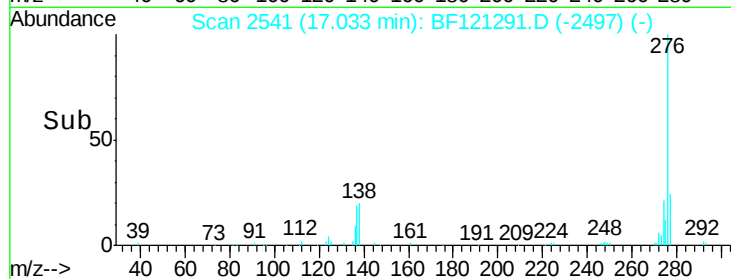
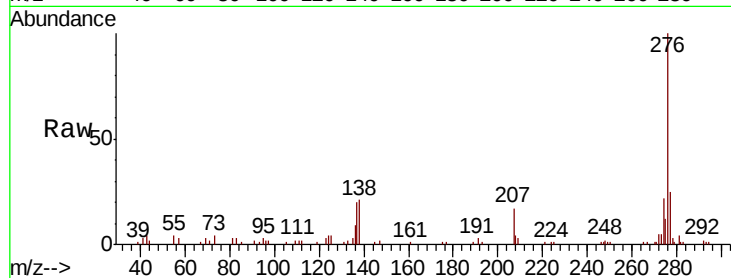
Tot Ion:276 Resp: 67028

Ion Ratio Lower Upper

276 100

277 24.7 19.1 28.7

138 20.6 16.2 24.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

