

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121018\  
 Data File : BF111264.D  
 Acq On : 11 Dec 2018 1:21  
 Operator : JU/SJ  
 Sample : J6196-03 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EO-03-120718-B

Quant Time: Dec 11 04:02:08 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 01:15:27 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 456851   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.09  | 136  | 1641032  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.84  | 164  | 648955   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.32 | 188  | 1019610  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.96 | 240  | 699562   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.40 | 264  | 411827   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.42  | 112  | 1517227  | 52.44 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 1857794  | 51.67 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 1056592  | 36.11 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 264296   | 45.98 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 1605119  | 35.08 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.91 | 244  | 1220449  | 41.85 | ng    | 0.00     |

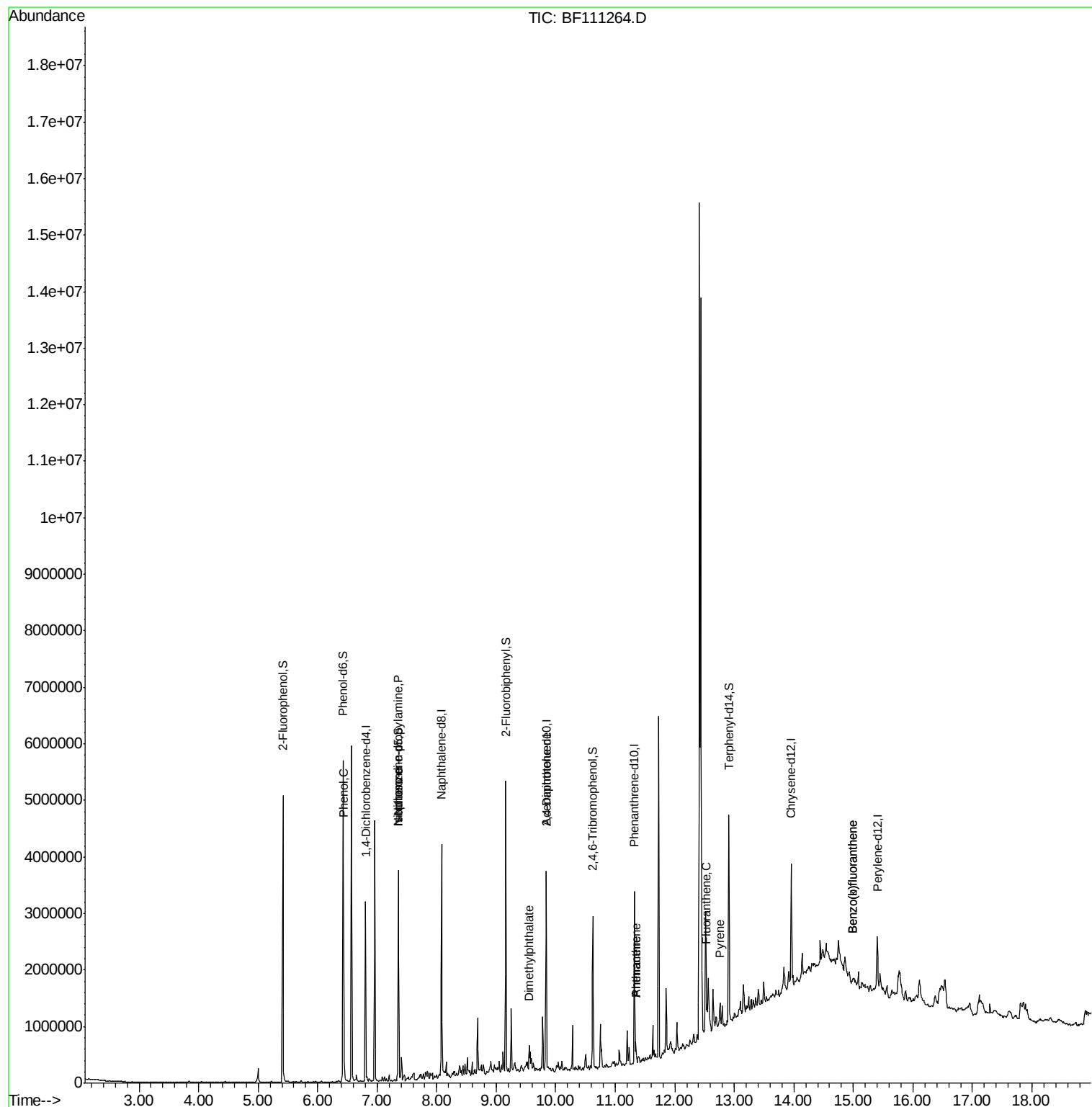
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.36  | 77   | 1792     | Below Cal |       | # 1    |
| 10) Phenol                     | 6.44  | 94   | 103945   | 2.472     | ng    | 94     |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 137260   | 5.699     | ng    | # 78   |
| 25) Isophorone                 | 7.36  | 82   | 1030473  | 20.679    | ng    | # 64   |
| 46) 1,1'-Biphenyl              | 9.26  | 154  | 8542     | Below Cal |       | 85     |
| 50) Dimethylphthalate          | 9.55  | 163  | 117721   | 2.458     | ng    | 98     |
| 57) 2,4-Dinitrotoluene         | 9.84  | 165  | 85864    | 6.587     | ng    | # 25   |
| 71) Phenanthrene               | 11.35 | 178  | 122109   | 2.374     | ng    | 93     |
| 72) Anthracene                 | 11.35 | 178  | 122109   | 2.270     | ng    | 95     |
| 75) Fluoranthene               | 12.53 | 202  | 162072   | 3.450     | ng    | 100    |
| 78) Pyrene                     | 12.76 | 202  | 170079   | 3.402     | ng    | 95     |
| 88) Benzo(b)fluoranthene       | 14.99 | 252  | 53812    | 2.363     | ng    | # 10   |
| 89) Benzo(k)fluoranthene       | 14.99 | 252  | 51639    | 2.412     | ng    | # 9    |

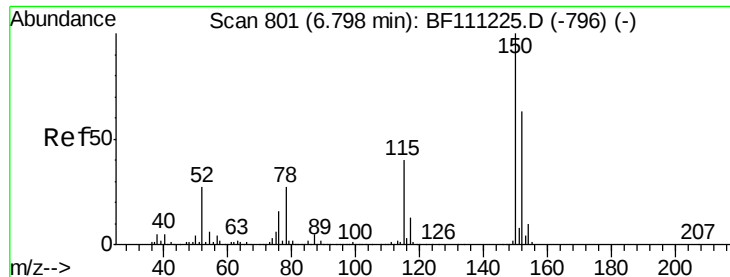
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121018\  
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Misc :  
ALS Vial : 22 Sample Multiplier: 1

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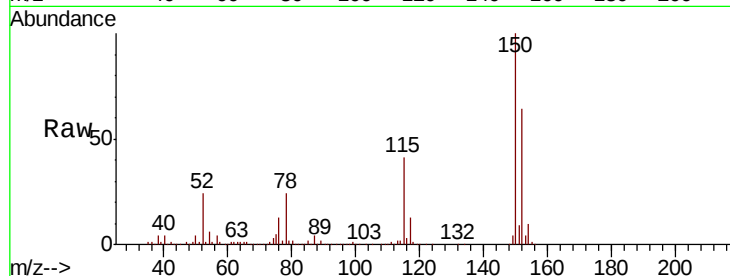


#1

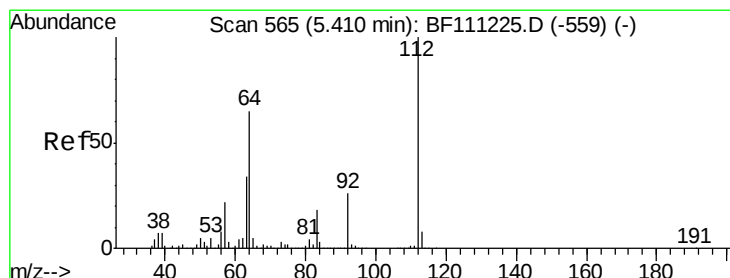
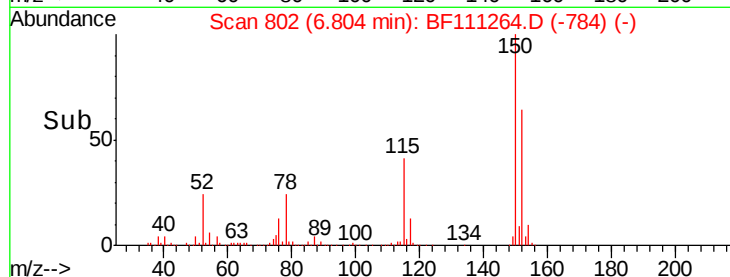
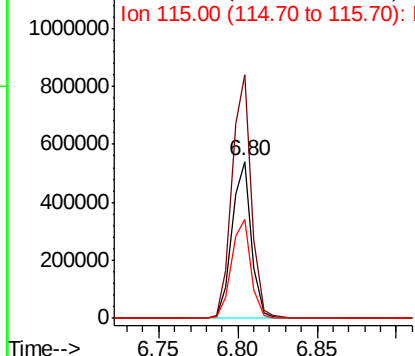
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. 0.01 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-120718-B

Tgt Ion:152 Resp: 456851  
Ion Ratio Lower Upper  
152 100  
150 155.3 126.6 189.8  
115 62.9 50.7 76.1



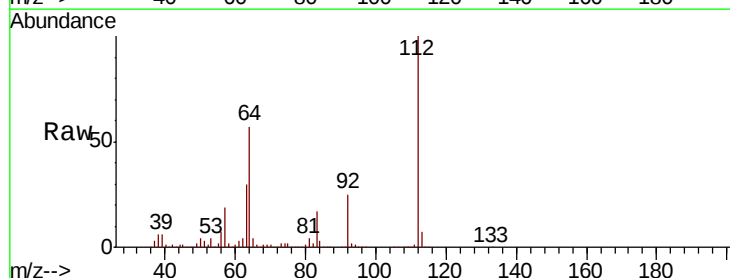
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



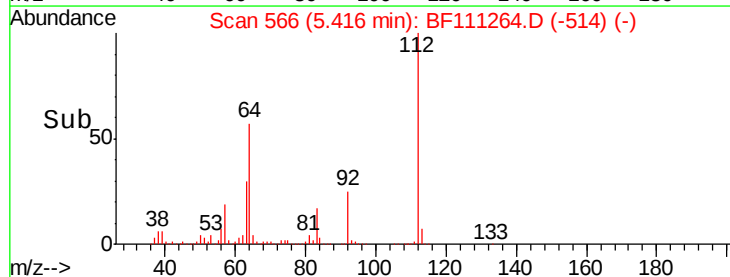
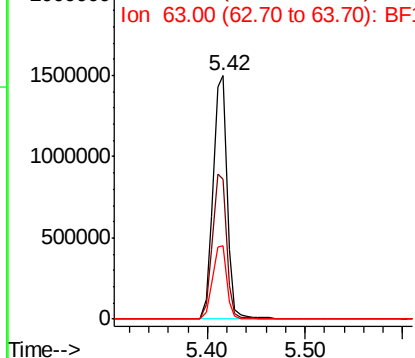
#5

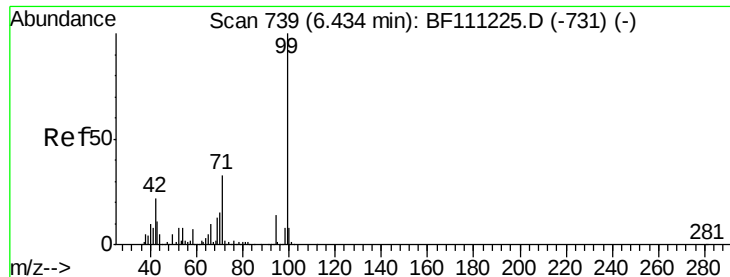
2-Fluorophenol  
Concen: 52.442 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Tgt Ion:112 Resp: 1517227  
Ion Ratio Lower Upper  
112 100  
64 57.3 51.8 77.6  
63 30.0 26.8 40.2



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: 51.670 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

Instrument :

BNA\_F

ClientSampleId :

EO-03-120718-B

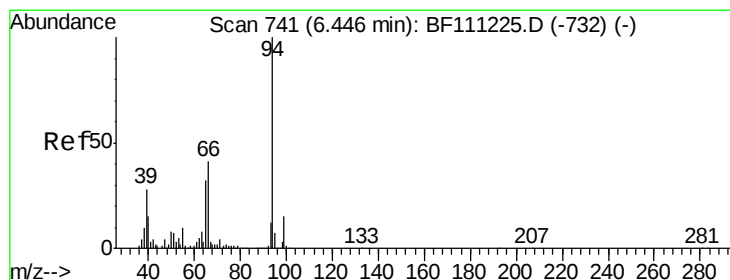
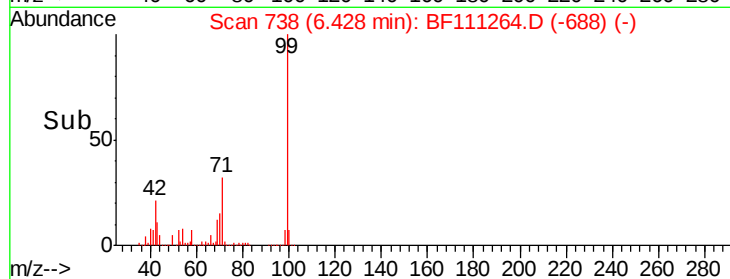
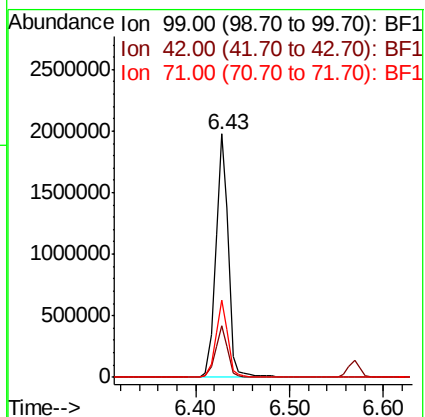
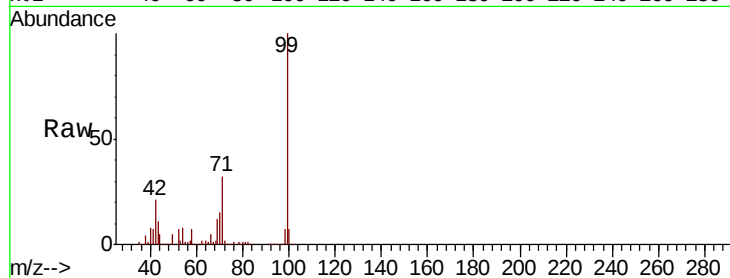
Tgt Ion: 99 Resp: 1857794

Ion Ratio Lower Upper

99 100

42 21.2 17.4 26.0

71 31.6 26.1 39.1



#10

Phenol

Concen: 2.472 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

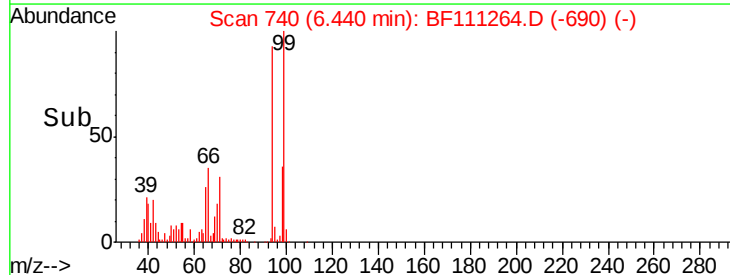
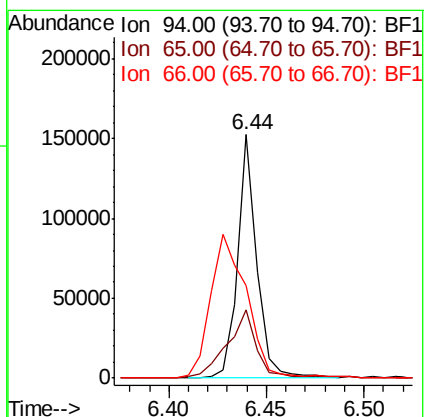
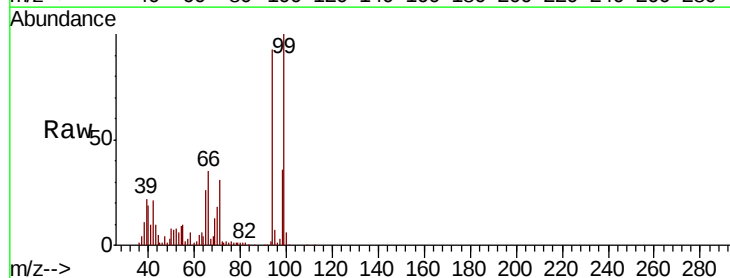
Tgt Ion: 94 Resp: 103945

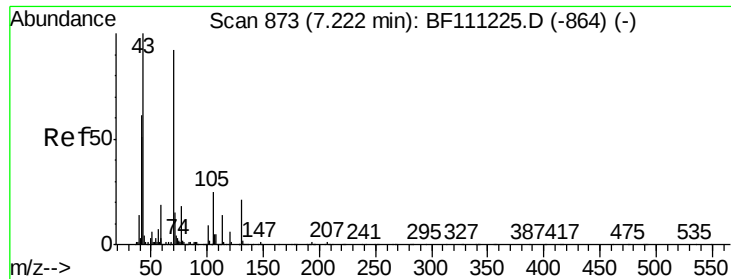
Ion Ratio Lower Upper

94 100

65 27.8 11.7 51.7

66 38.1 21.0 61.0

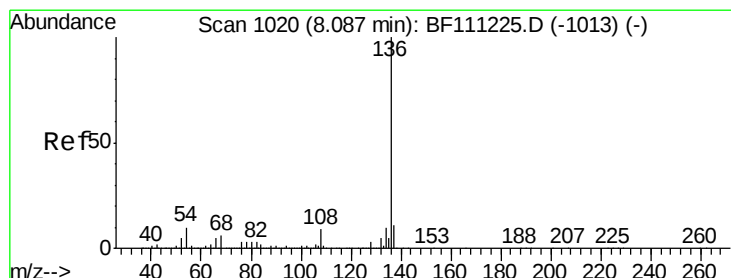
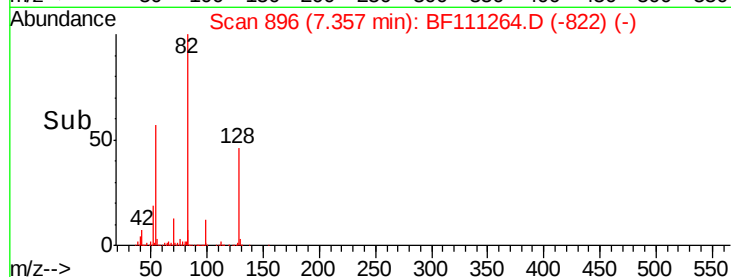
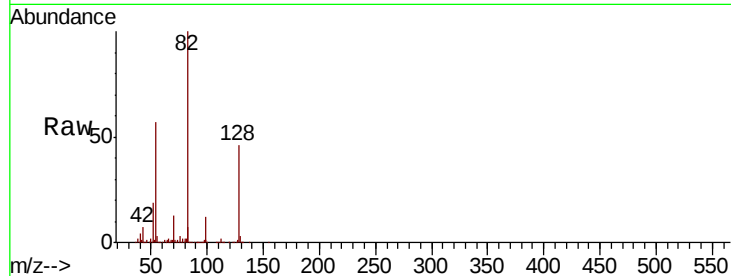
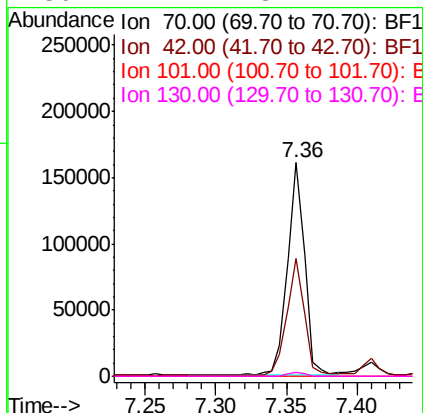




#19  
n-Nitroso-di-n-propylamine  
Concen: 5.699 ng  
RT: 7.36 min Scan# 896  
Delta R.T. 0.14 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

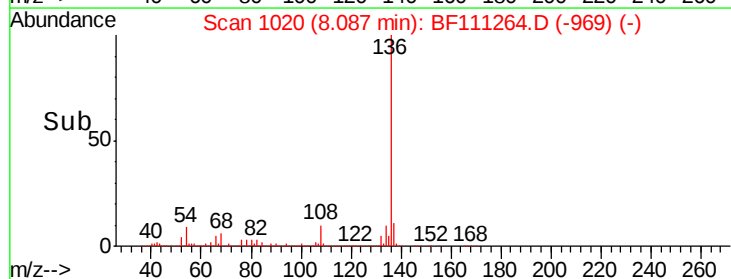
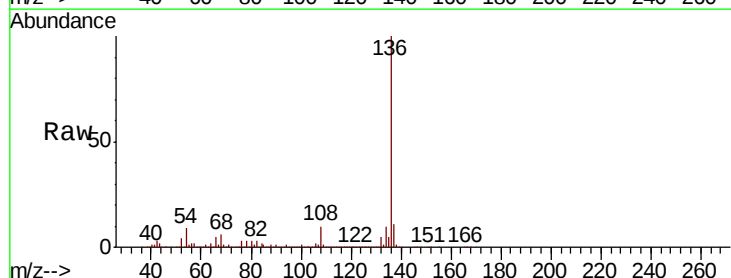
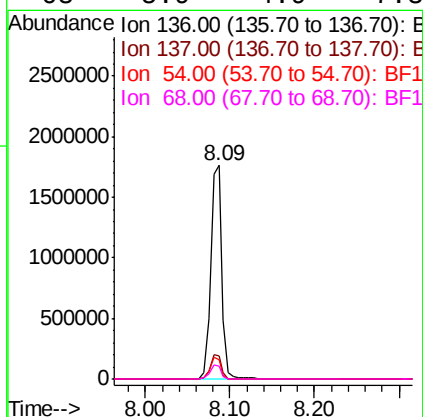
Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-120718-B

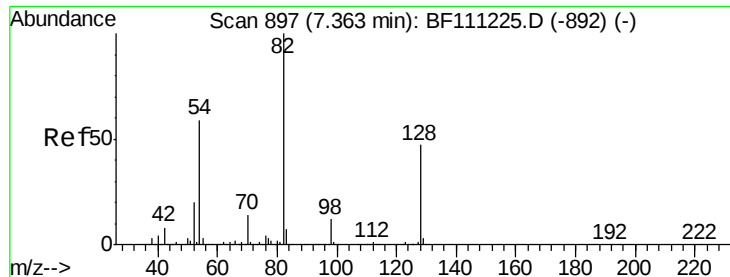
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 55.4  | 53.2  | 79.8  |
| 101     | 0.0   | 8.2   | 12.4# |
| 130     | 2.1   | 18.1  | 27.1# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.9  | 9.1   | 13.7  |
| 54      | 9.0   | 7.7   | 11.5  |
| 68      | 5.9   | 4.9   | 7.3   |

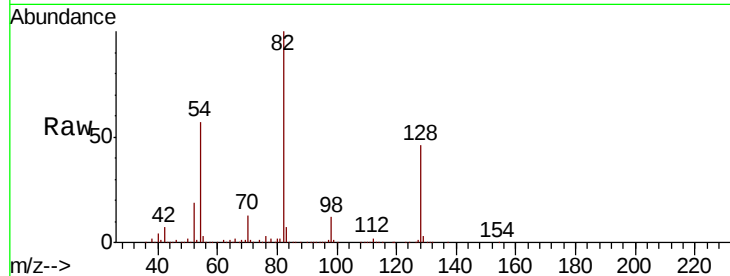




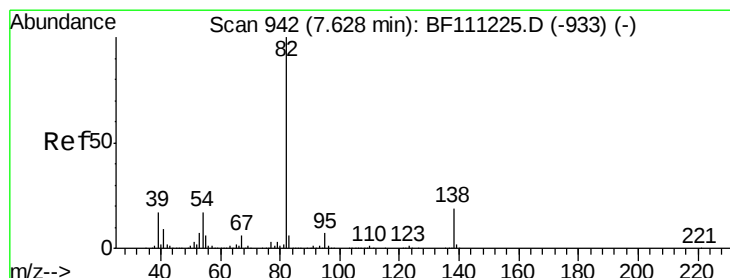
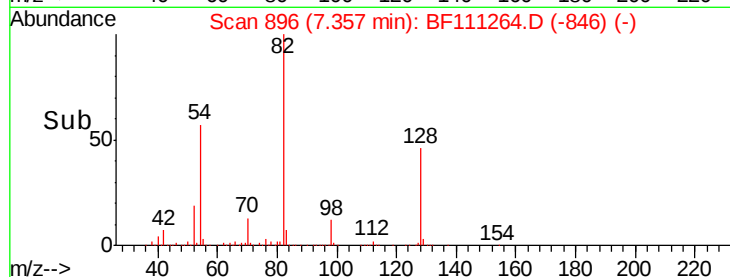
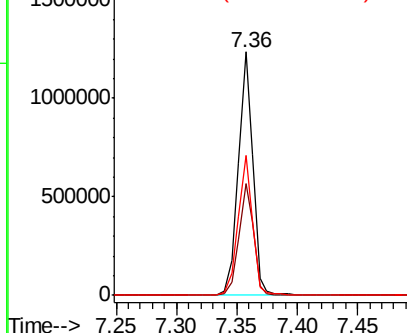
#23  
Nitrobenzene-d5  
Concen: 36.113 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-120718-B

Tgt Ion: 82 Resp: 1056592  
Ion Ratio Lower Upper  
82 100  
128 45.8 37.4 56.2  
54 57.5 47.6 71.4

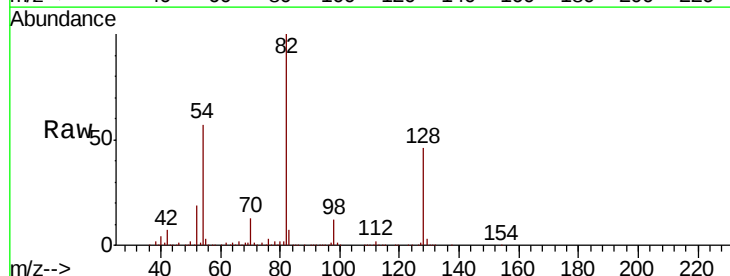


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

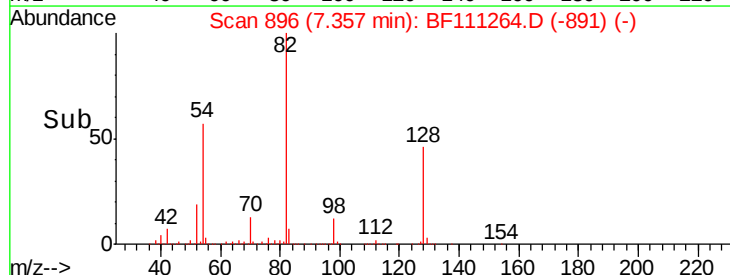
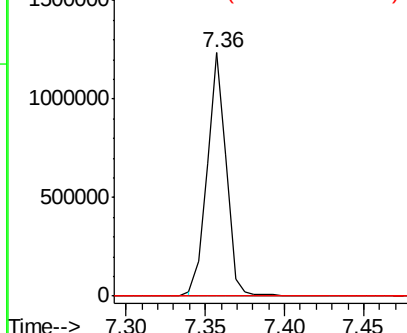


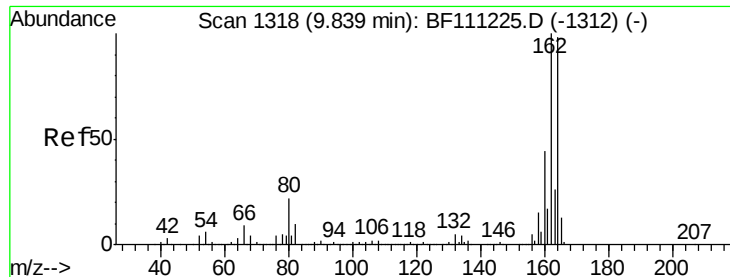
#25  
Isophorone  
Concen: 20.679 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.27 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Tgt Ion: 82 Resp: 1030473  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.4 8.2#  
138 0.0 15.1 22.7#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.00 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

Instrument :

BNA\_F

ClientSampleId :

EO-03-120718-B

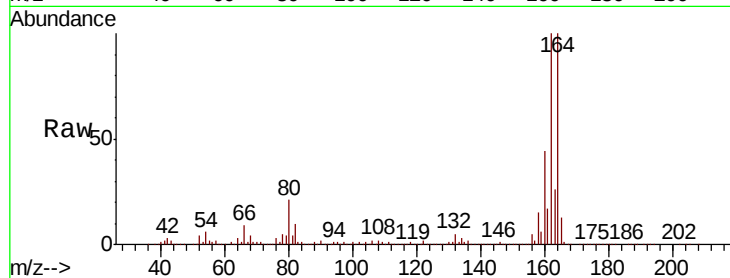
Tgt Ion:164 Resp: 648955

Ion Ratio Lower Upper

164 100

162 100.1 81.4 122.0

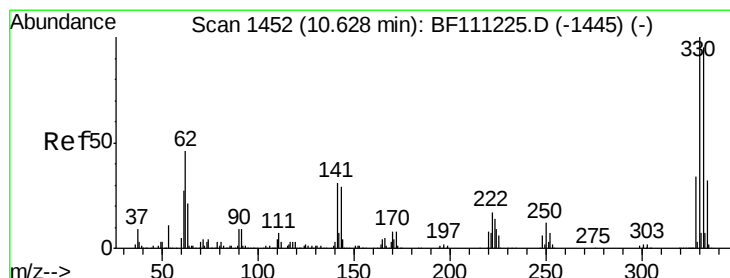
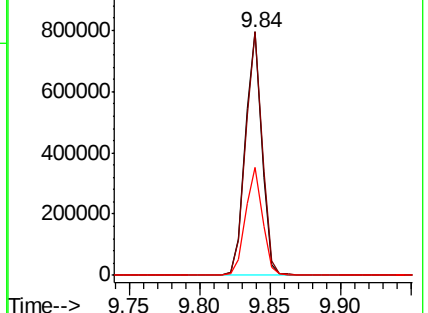
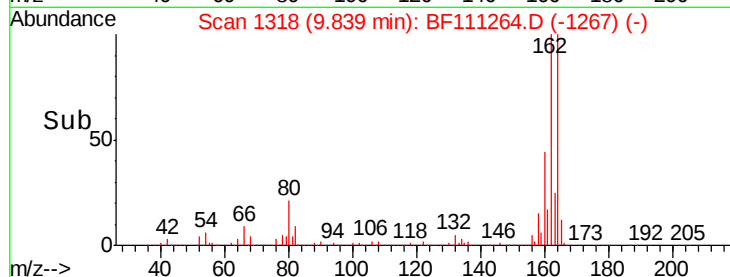
160 44.3 35.7 53.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 45.976 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

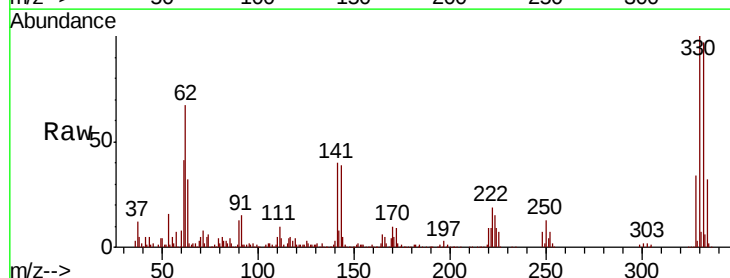
Tgt Ion:330 Resp: 264296

Ion Ratio Lower Upper

330 100

332 96.7 76.0 114.0

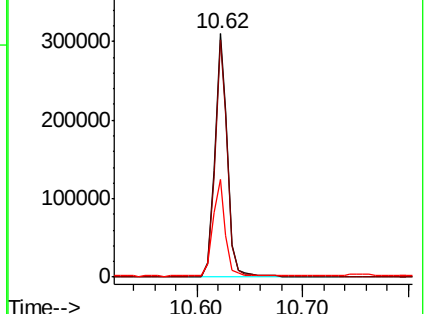
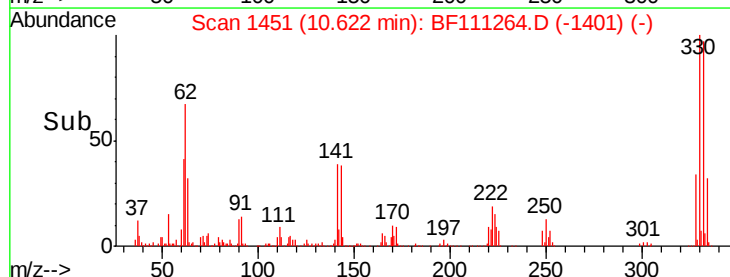
141 38.9 31.0 46.6

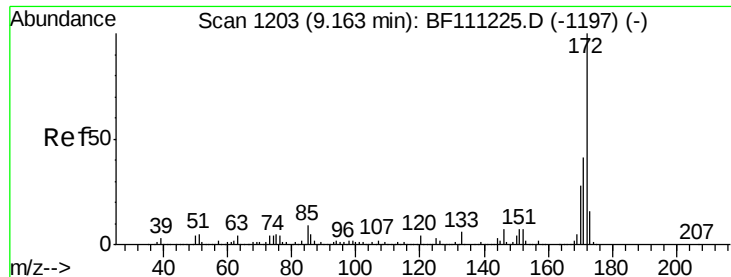


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

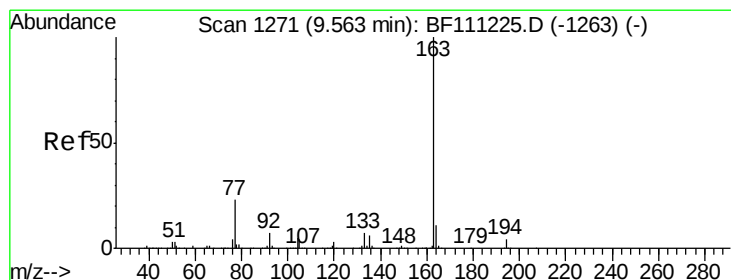
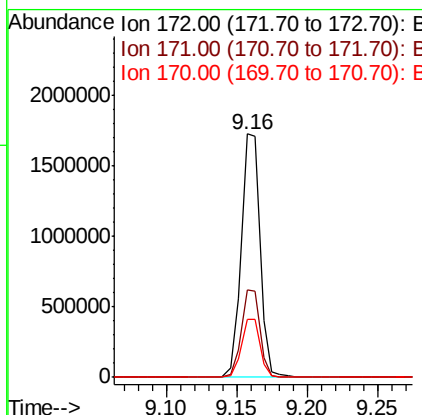
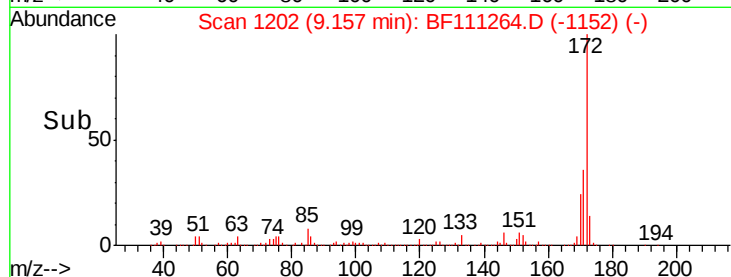
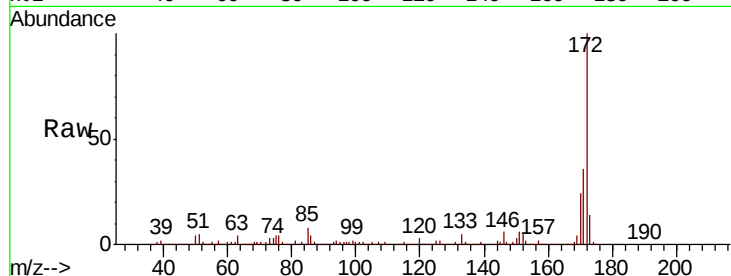




#45  
2-Fluorobiphenyl  
Concen: 35.083 ng  
RT: 9.16 min Scan# 1202  
Delta R.T. -0.00 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

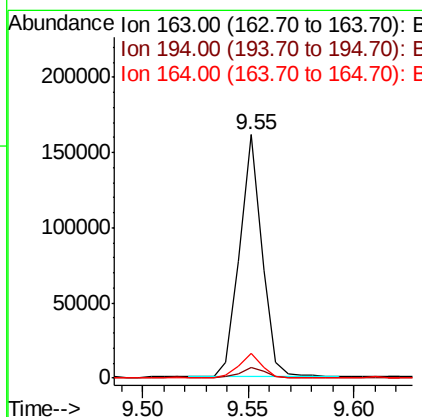
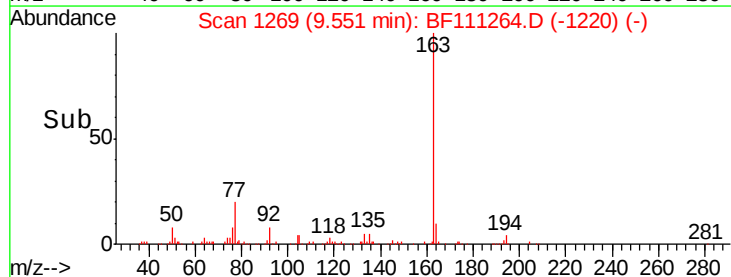
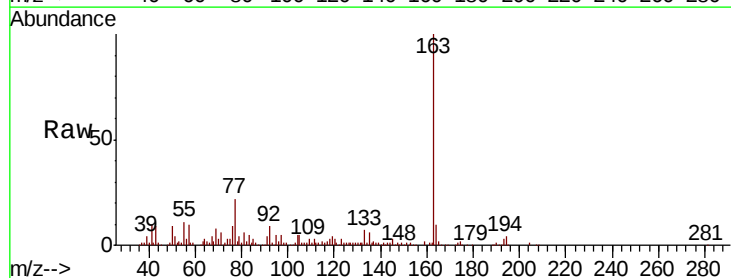
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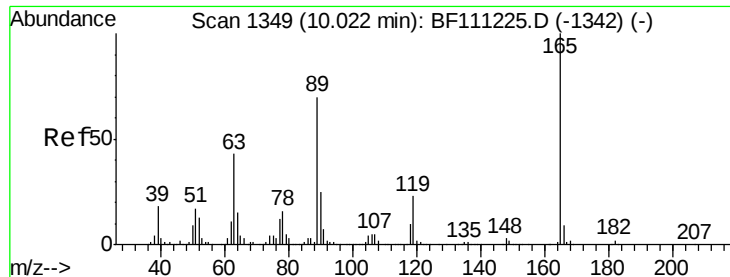
Tgt Ion:172 Resp: 1605119  
Ion Ratio Lower Upper  
172 100  
171 35.9 33.0 49.4  
170 23.8 22.3 33.5



#50  
Dimethylphthalate  
Concen: 2.458 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.01 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Tgt Ion:163 Resp: 117721  
Ion Ratio Lower Upper  
163 100  
194 4.4 3.0 4.6  
164 10.1 8.9 13.3

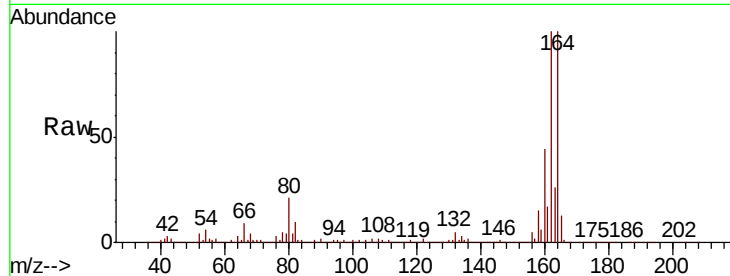




#57  
2,4-Dinitrotoluene  
Concen: 6.587 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.18 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-120718-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 34.6  | 52.0# |
| 89      | 1.8   | 56.2  | 84.4# |
| 182     | 0.9   | 1.8   | 2.6#  |



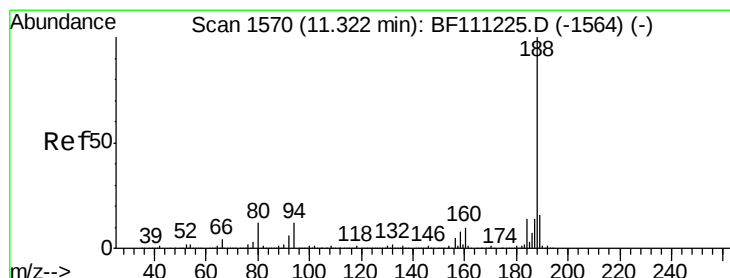
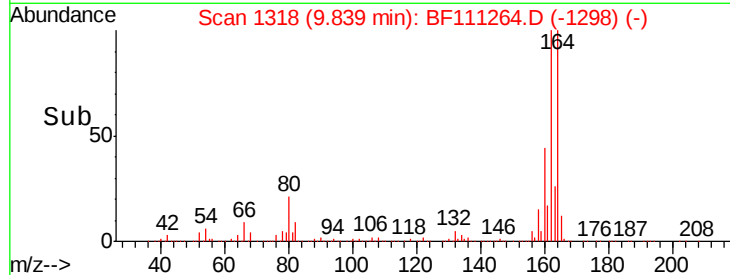
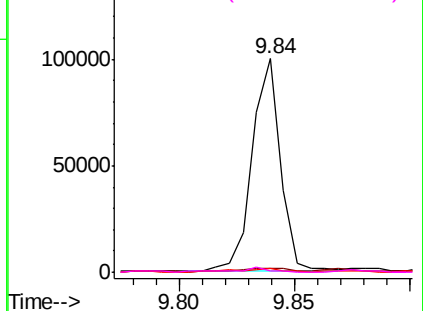
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

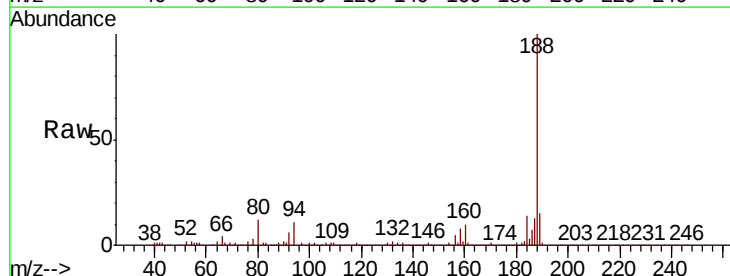
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.00 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.3  | 9.6   | 14.4  |
| 80      | 11.8  | 9.8   | 14.6  |

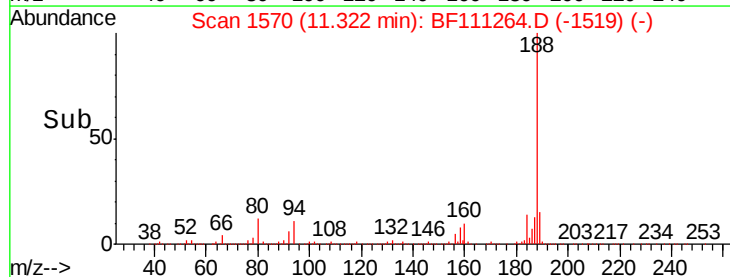
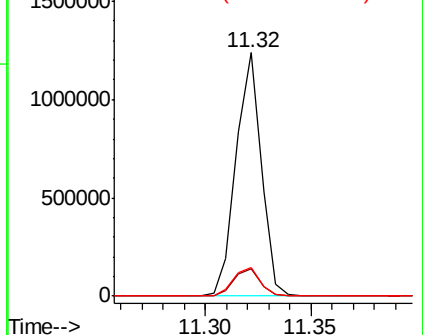


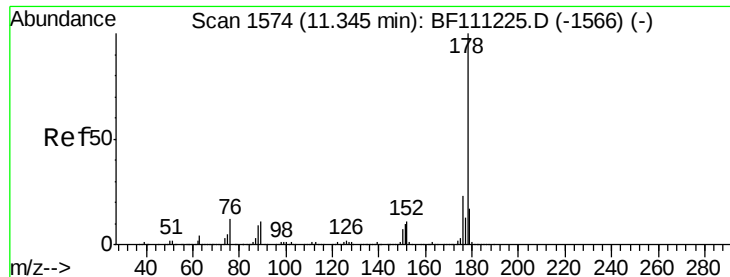
Abundance

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: 2.374 ng

RT: 11.35 min Scan# 1574

Delta R.T. 0.00 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

Instrument :

BNA\_F

ClientSampleId :

EO-03-120718-B

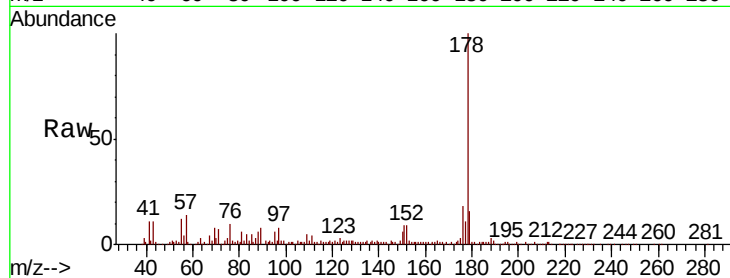
Tgt Ion:178 Resp: 122109

Ion Ratio Lower Upper

178 100

176 18.4 18.1 27.1

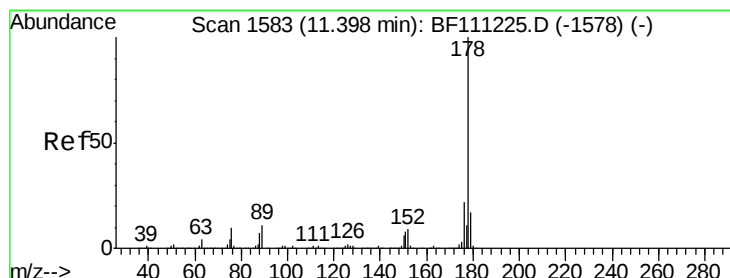
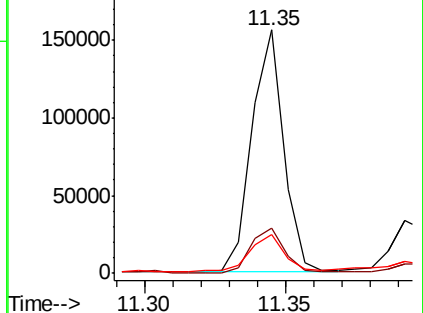
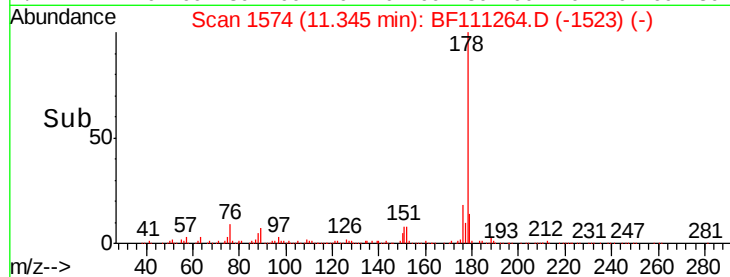
179 15.7 14.0 21.0



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: 2.270 ng

RT: 11.35 min Scan# 1574

Delta R.T. -0.05 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

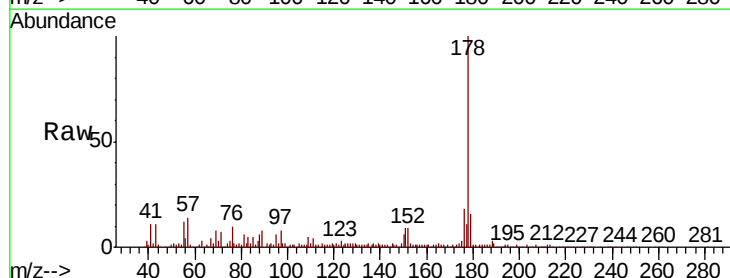
Tgt Ion:178 Resp: 122109

Ion Ratio Lower Upper

178 100

176 18.4 17.2 25.8

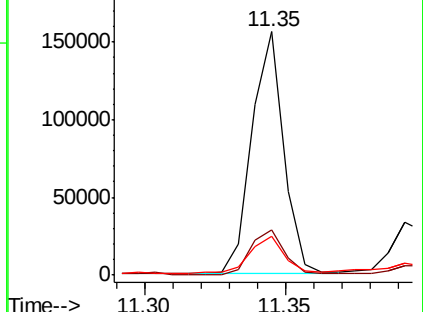
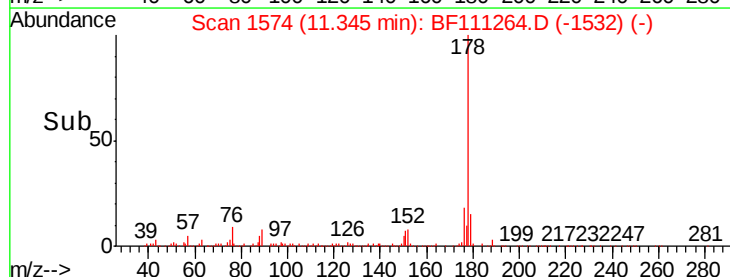
179 15.7 13.8 20.8

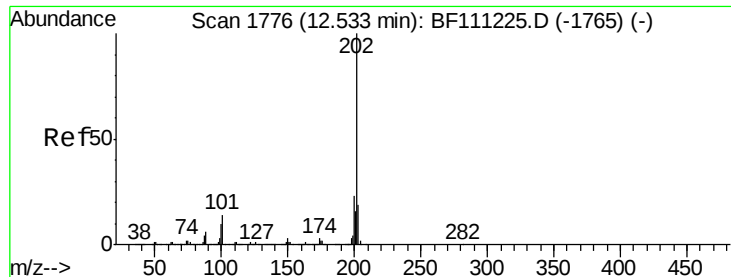


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 3.450 ng

RT: 12.53 min Scan# 1776

Delta R.T. -0.00 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

Instrument :

BNA\_F

ClientSampleId :

EO-03-120718-B

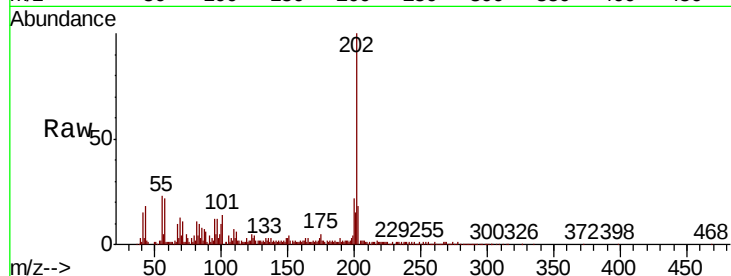
Tgt Ion:202 Resp: 162072

Ion Ratio Lower Upper

202 100

101 13.8 0.0 33.8

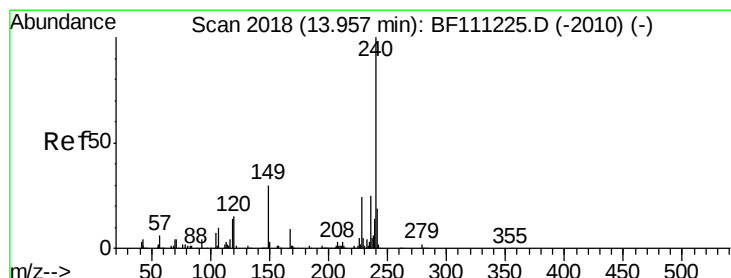
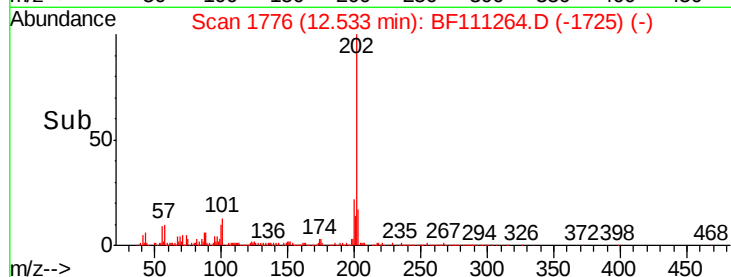
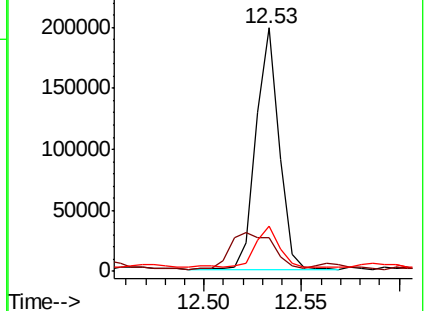
203 18.5 0.0 38.6



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# 2018

Delta R.T. -0.00 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

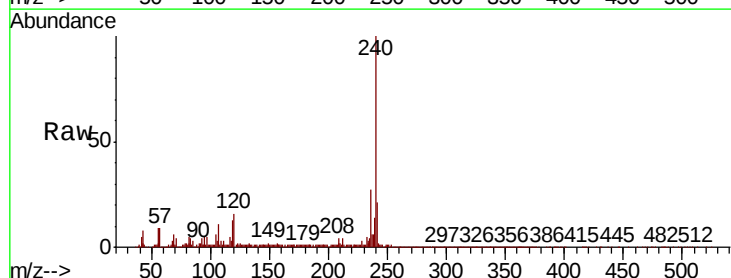
Tgt Ion:240 Resp: 699562

Ion Ratio Lower Upper

240 100

120 15.7 12.2 18.2

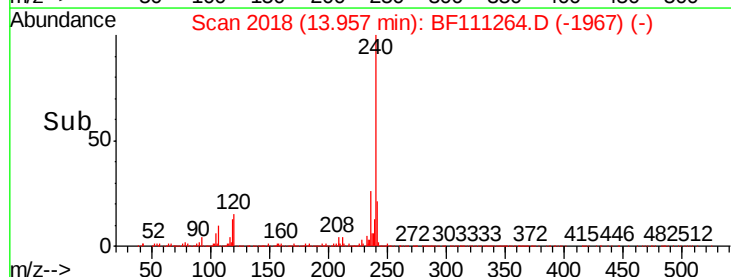
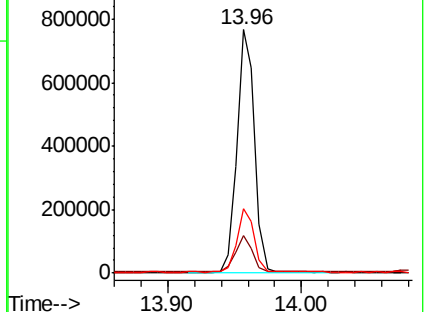
236 26.5 20.2 30.2

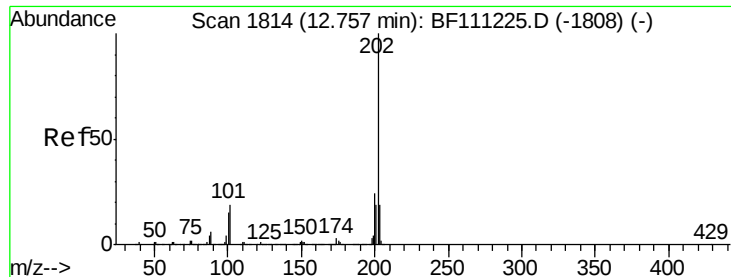


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 3.402 ng

RT: 12.76 min Scan# 1815

Delta R.T. 0.01 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

Instrument :

BNA\_F

ClientSampleId :

EO-03-120718-B

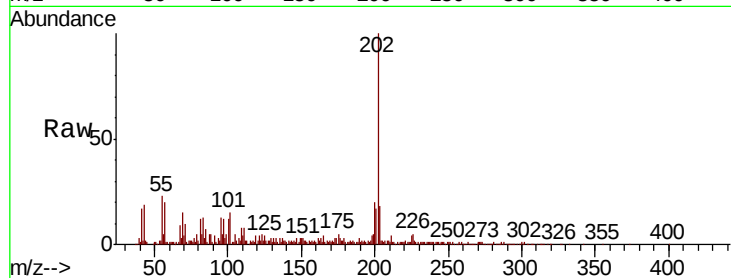
Tgt Ion:202 Resp: 170079

Ion Ratio Lower Upper

202 100

200 19.8 19.0 28.4

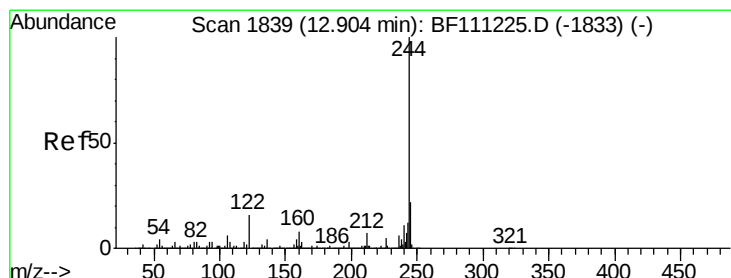
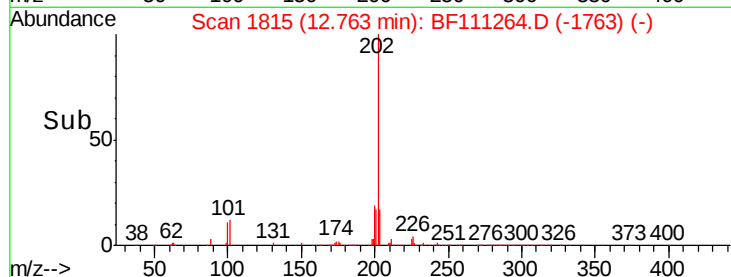
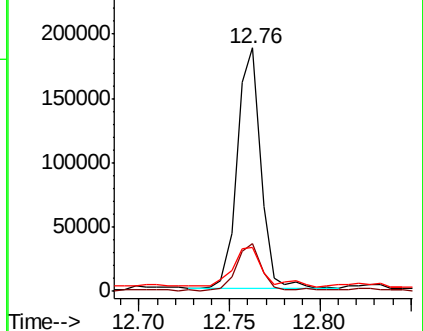
203 18.3 15.2 22.8



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: 41.846 ng

RT: 12.91 min Scan# 1840

Delta R.T. 0.01 min

Lab File: BF111264.D

Acq: 11 Dec 2018 1:21

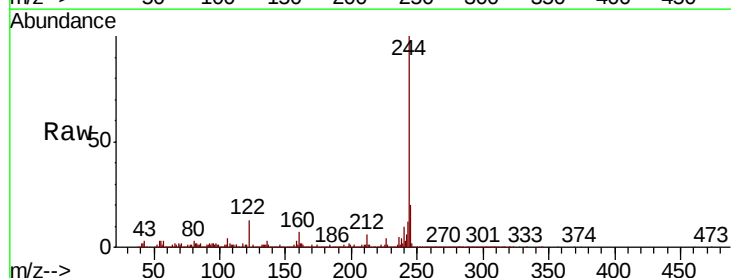
Tgt Ion:244 Resp: 1220449

Ion Ratio Lower Upper

244 100

212 6.5 5.7 8.5

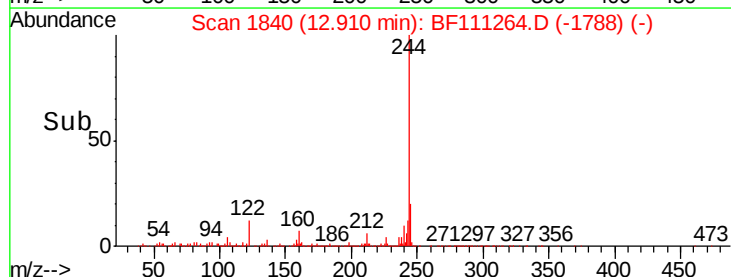
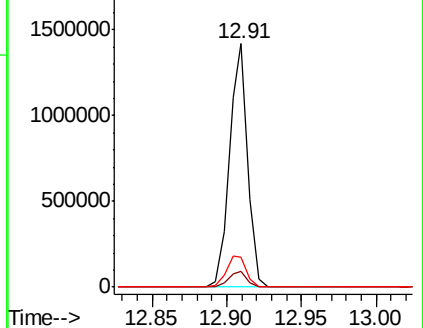
122 12.5 13.1 19.7#

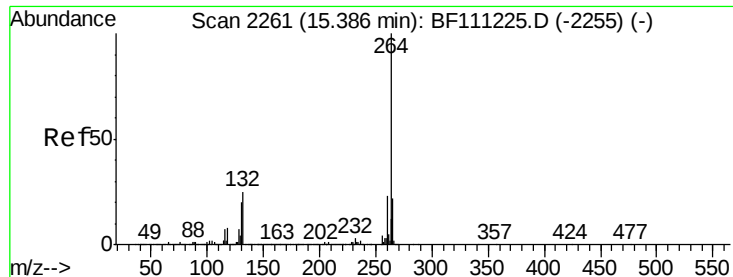


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



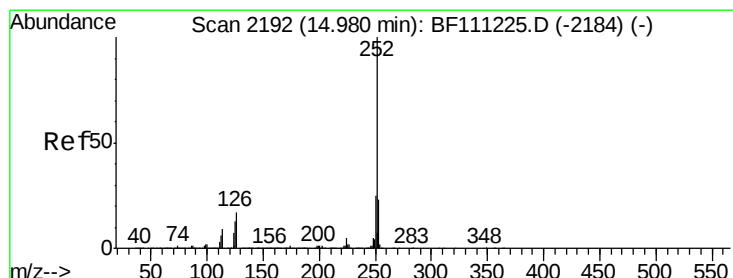
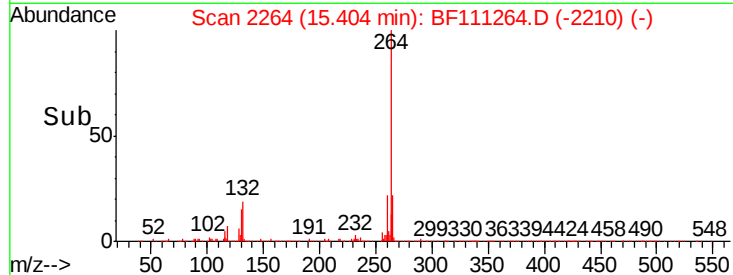
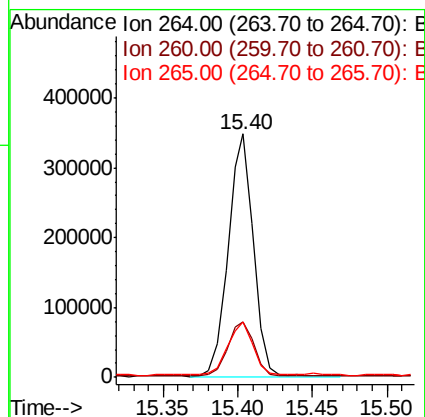
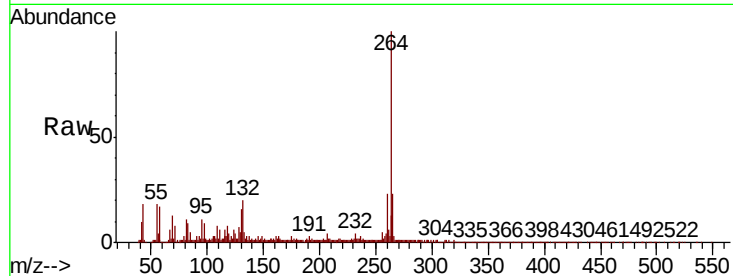


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.40 min Scan# 2264  
Delta R.T. 0.02 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Instrument :  
BNA\_F  
ClientSampleId :  
EO-03-120718-B

Tgt Ion: 264 Resp: 411827  

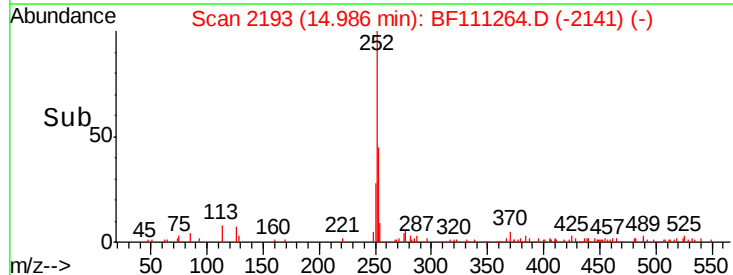
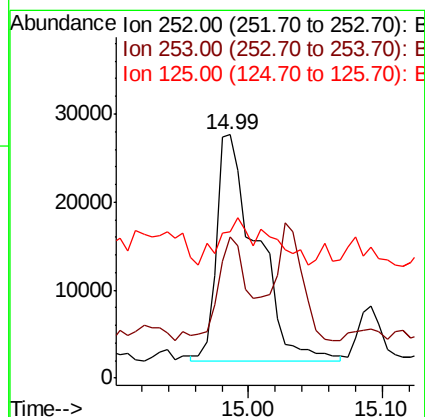
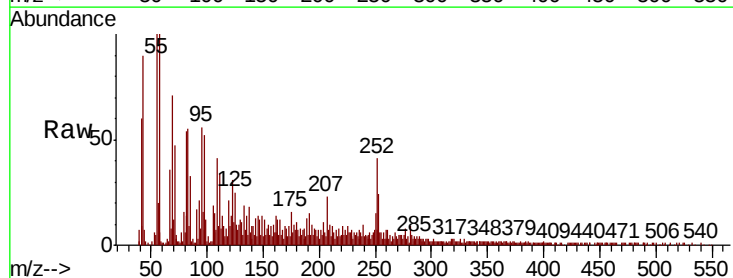
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 18.3  | 27.5  |
| 265 | 22.6  | 17.7  | 26.5  |

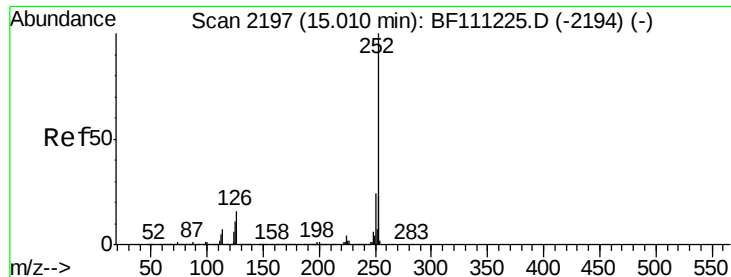


#88  
Benzo(b)fluoranthene  
Concen: 2.363 ng  
RT: 14.99 min Scan# 2193  
Delta R.T. 0.01 min  
Lab File: BF111264.D  
Acq: 11 Dec 2018 1:21

Tgt Ion: 252 Resp: 53812  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 58.1  | 18.2  | 27.2# |
| 125 | 60.3  | 10.4  | 15.6# |





#89

Benzo(k)fluoranthene

Concen: 2.412 ng

RT: 14.99 min Scan# 2193

Delta R.T. -0.02 min

Lab File: BF111264.D

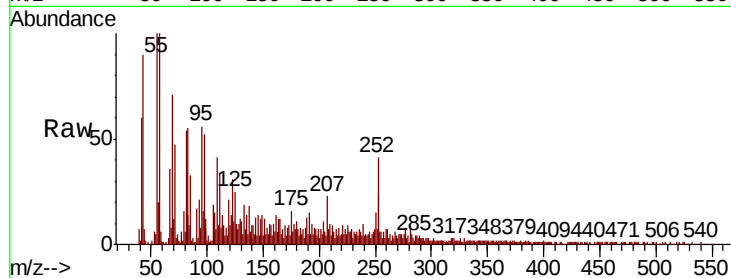
Acq: 11 Dec 2018 1:21

Instrument :

BNA\_F

ClientSampleId :

EO-03-120718-B



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 51639 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 58.1  | 18.1  | 27.1# |
| 125      | 60.3  | 9.8   | 14.8# |

