

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082319\  
 Data File : BF116518.D  
 Acq On : 24 Aug 2019 12:46  
 Operator : HP/JU  
 Sample : K4461-18  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 26 02:08:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 23 13:38:31 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 123676   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 453615   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.92  | 164  | 216567   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 348005   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.03 | 240  | 242027   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.50 | 264  | 240214   | 20.00 | ng    | -0.01    |

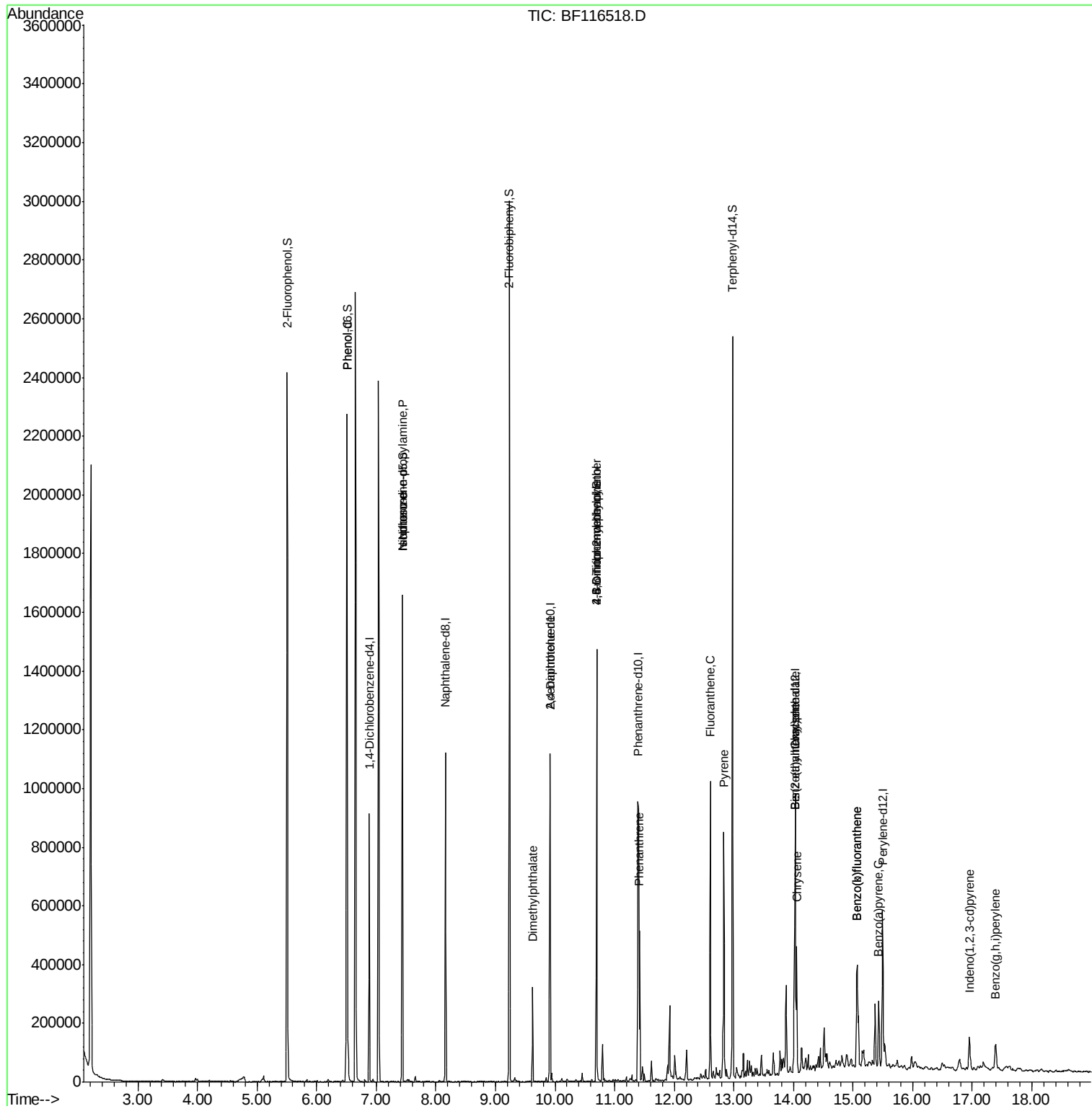
| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.50  | 112  | 677360   | 80.03 | ng    | 0.00     |
| 7) Phenol-d6                | 6.51  | 99   | 885605   | 85.33 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.44  | 82   | 525983   | 63.44 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.70 | 330  | 149983   | 80.65 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.23  | 172  | 868697   | 64.60 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.98 | 244  | 782727   | 60.41 | ng    | 0.00     |

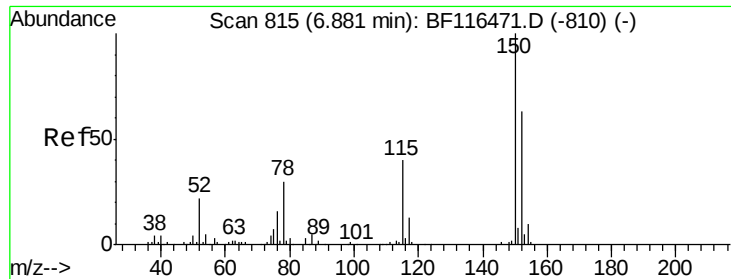
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.52  | 94   | 39398    | 3.496  | ng    | 95     |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 71185    | 10.052 | ng    | # 78   |
| 25) Isophorone                 | 7.44  | 82   | 526066   | 32.196 | ng    | # 67   |
| 50) Dimethylphthalate          | 9.62  | 163  | 114753   | 7.595  | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 27740    | 7.049  | ng    | # 21   |
| 65) 4,6-Dinitro-2-methylphenol | 10.69 | 198  | 345      | 7.212  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 10236    | 2.806  | ng    | # 1    |
| 71) Phenanthrene               | 11.42 | 178  | 185401   | 9.780  | ng    | 98     |
| 75) Fluoranthene               | 12.60 | 202  | 380736   | 19.425 | ng    | 98     |
| 78) Pyrene                     | 12.83 | 202  | 302767   | 15.643 | ng    | 99     |
| 81) Benzo(a)anthracene         | 14.02 | 228  | 121965   | 7.781  | ng    | 99     |
| 83) Chrysene                   | 14.05 | 228  | 157560   | 9.917  | ng    | 95     |
| 84) Bis(2-ethylhexyl)phthalate | 14.02 | 149  | 26925    | 2.416  | ng    | 97     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.95 | 276  | 74977    | 5.509  | ng    | 96     |
| 88) Benzo(b)fluoranthene       | 15.07 | 252  | 251132   | 16.923 | ng    | 98     |
| 89) Benzo(k)fluoranthene       | 15.07 | 252  | 251132   | 18.680 | ng    | 99     |
| 90) Benzo(a)pyrene             | 15.43 | 252  | 106350   | 8.109  | ng    | 98     |
| 92) Benzo(g,h,i)perylene       | 17.39 | 276  | 69105    | 6.726  | ng    | 98     |

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

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QLast Update : Fri Aug 23 13:38:31 2019  
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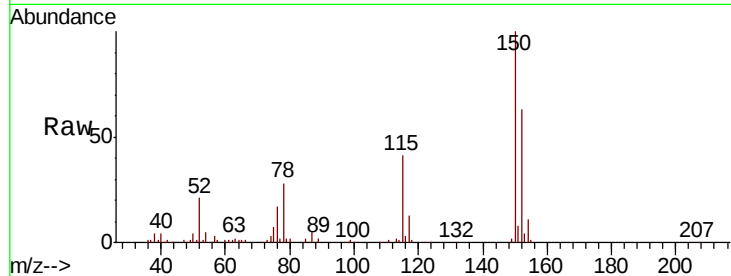


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.00 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.4 | 126.7 | 190.1 |
| 115     | 64.7  | 50.9  | 76.3  |

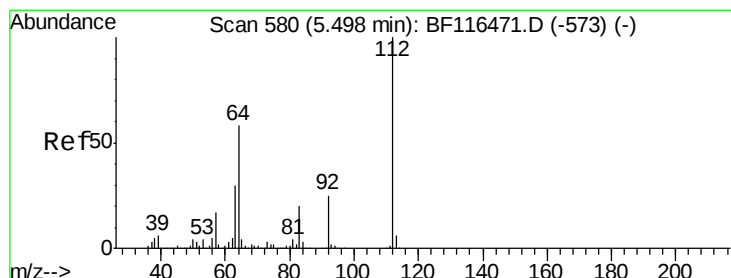
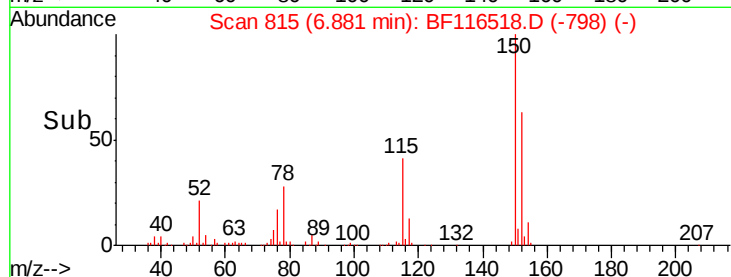
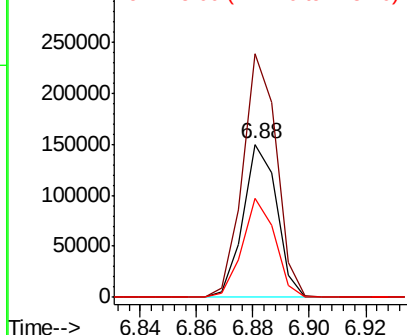


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

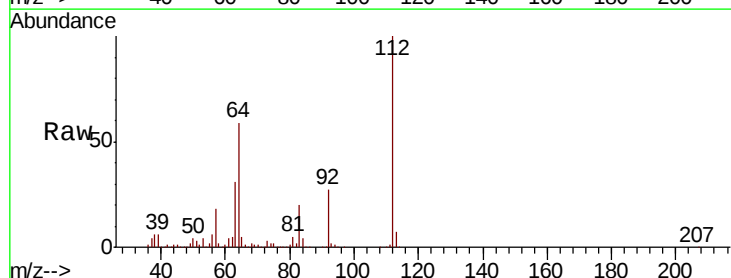
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 80.025 ng  
RT: 5.50 min Scan# 581  
Delta R.T. 0.01 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.4  | 46.3  | 69.5  |
| 63      | 31.4  | 24.2  | 36.4  |

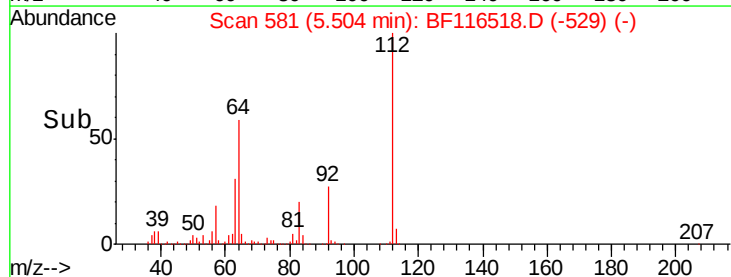
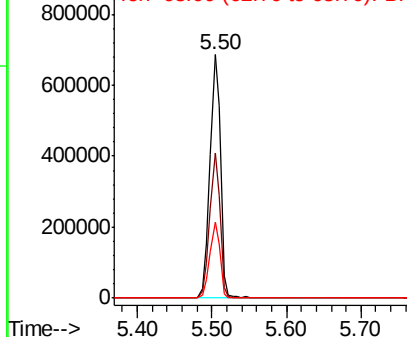


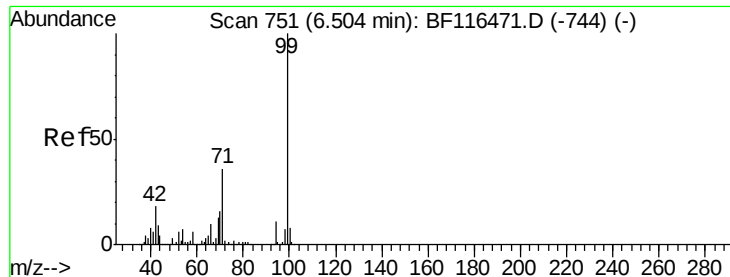
Abundance

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: 85.331 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

Instrument :

BNA\_F

ClientSampled :

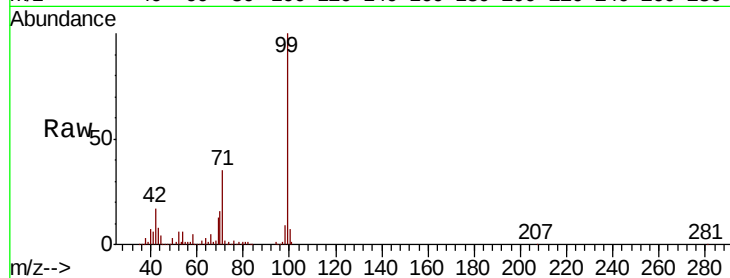
Tot Ion: 99 Resp: 885605

Ion Ratio Lower Upper

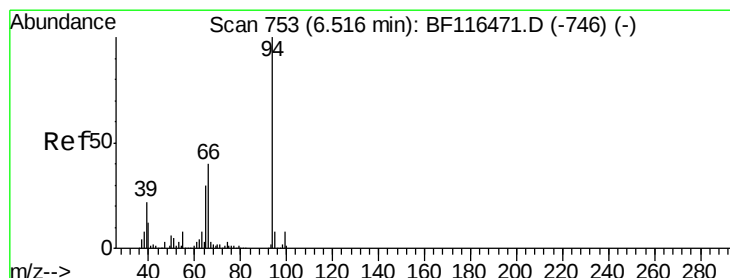
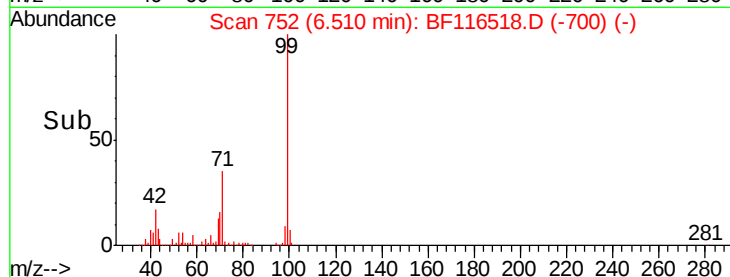
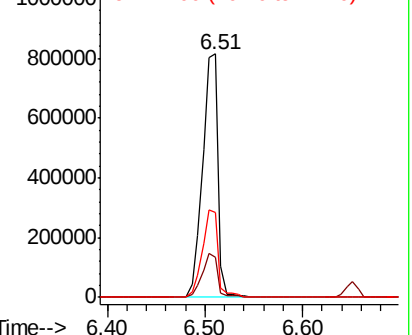
99 100

42 16.6 14.6 21.8

71 34.7 28.5 42.7



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



#10

Phenol

Concen: 3.496 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

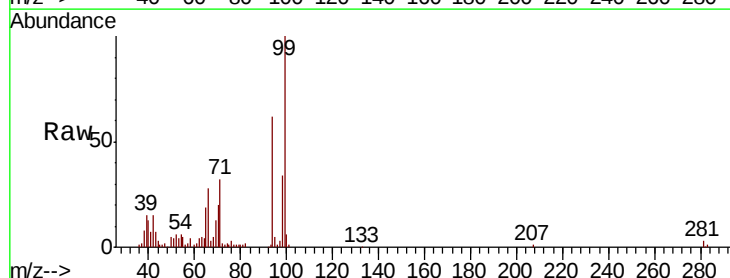
Tgt Ion: 94 Resp: 39398

Ion Ratio Lower Upper

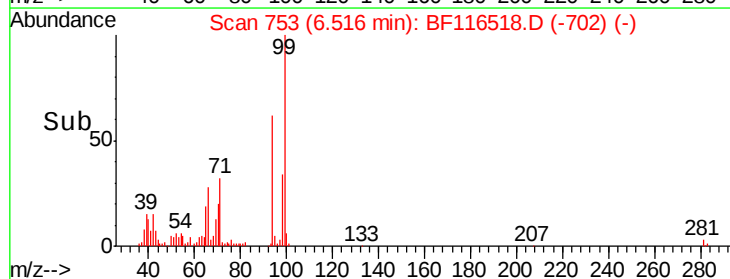
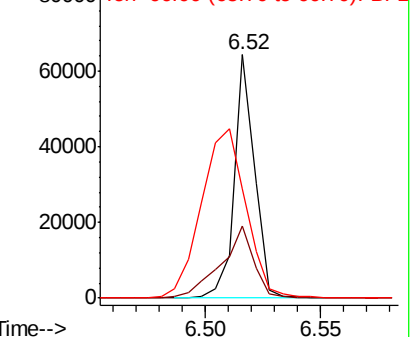
94 100

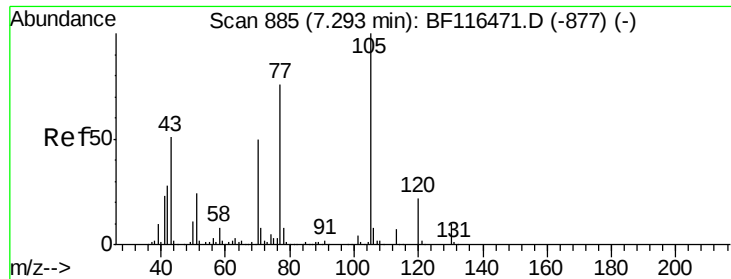
65 29.7 10.0 50.0

66 44.9 19.8 59.8



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 10.052 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 71185

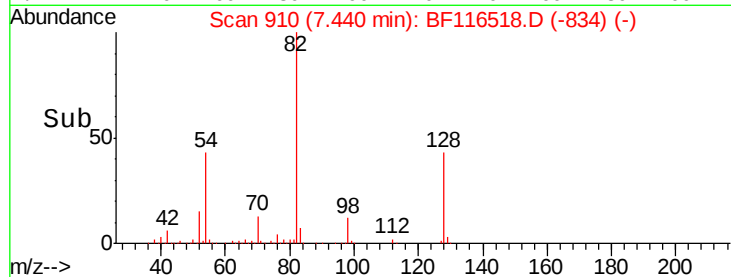
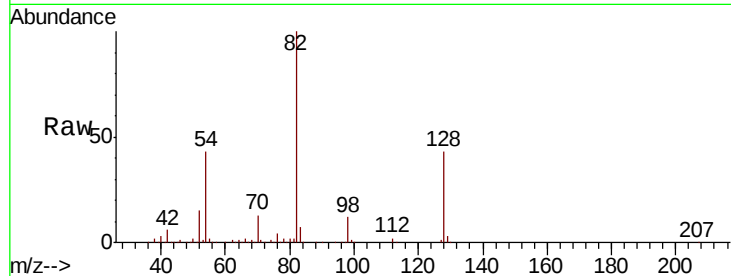
Ion Ratio Lower Upper

70 100

42 43.9 44.4 66.6#

101 0.0 7.1 10.7#

130 2.0 15.8 23.8#

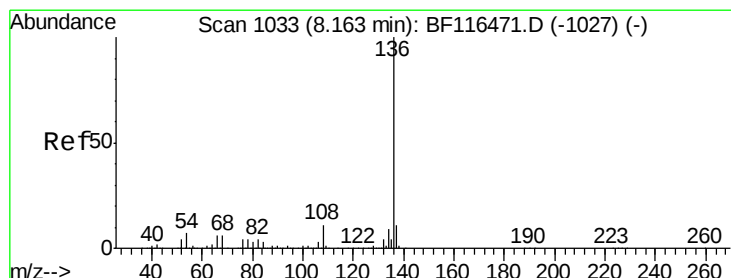
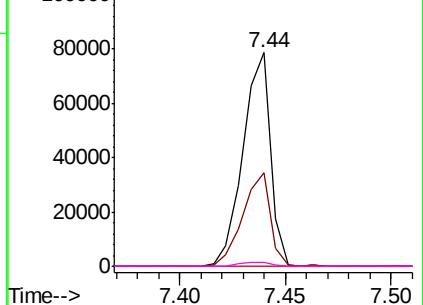


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

Tgt Ion:136 Resp: 453615

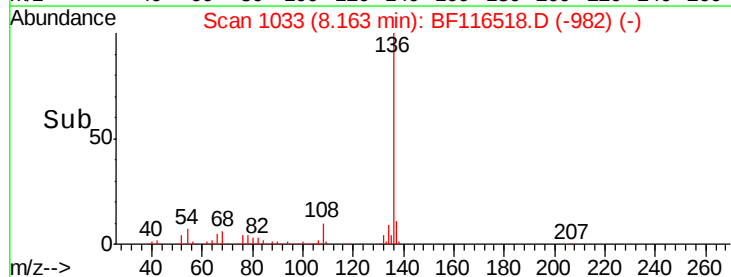
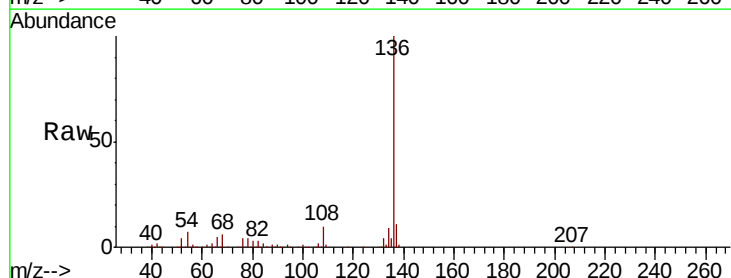
Ion Ratio Lower Upper

136 100

137 10.7 9.0 13.4

54 6.8 5.8 8.6

68 5.8 5.1 7.7

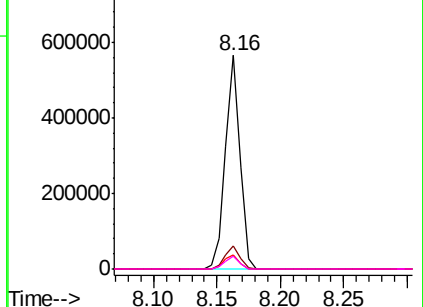


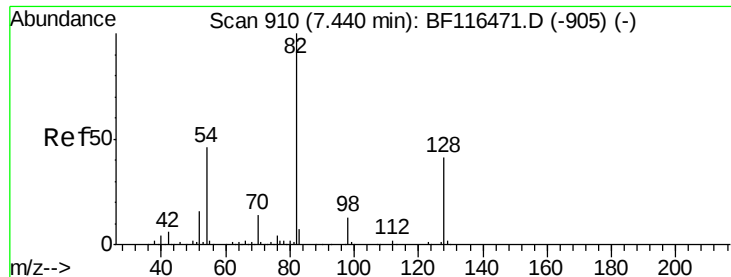
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

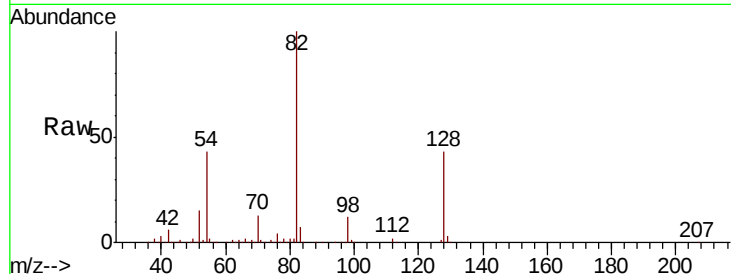




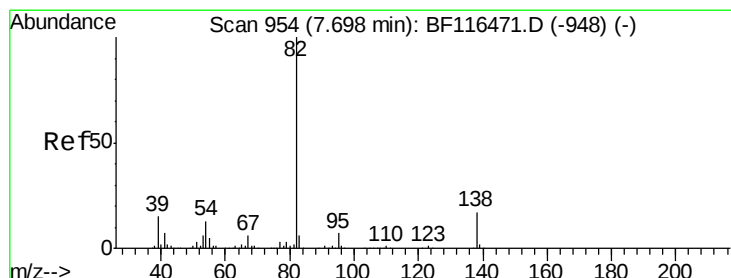
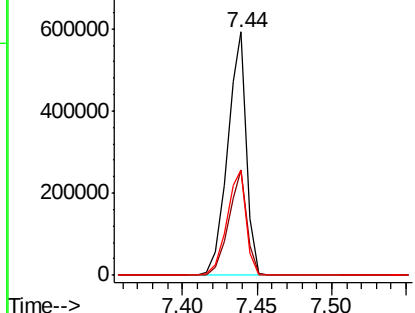
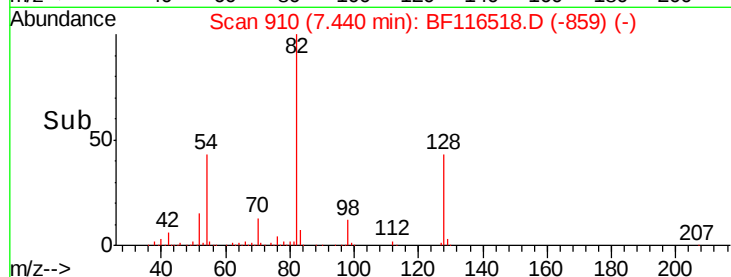
#23  
Nitrobenzene-d5  
Concen: 63.438 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.00 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 525983 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.4  | 32.2  | 48.4   |
| 54        | 43.4  | 36.5  | 54.7   |

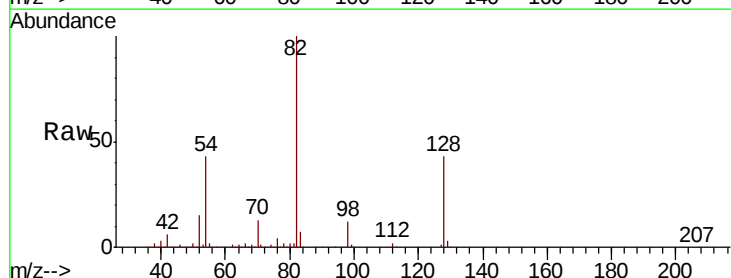


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

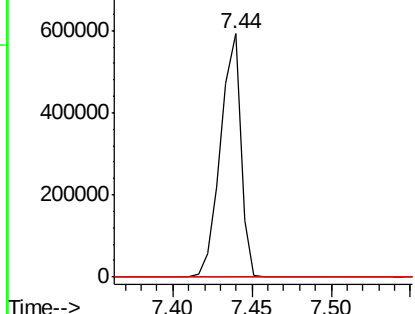
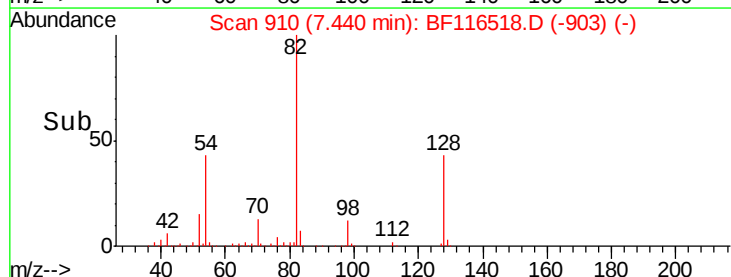


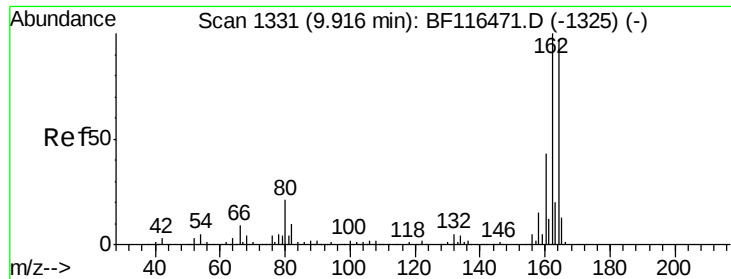
#25  
Isophorone  
Concen: 32.196 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.26 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

| Tgt Ion   | 82    | Resp  | 526066 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.3   | 7.9#   |
| 138       | 0.0   | 13.3  | 19.9#  |



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

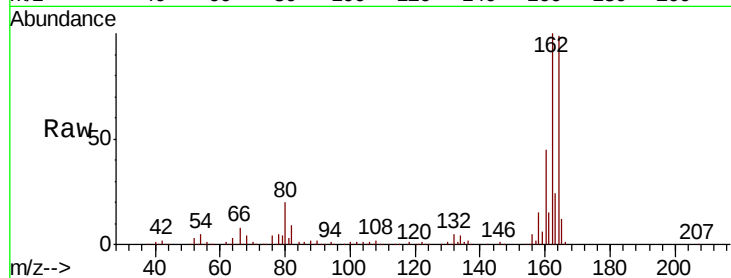




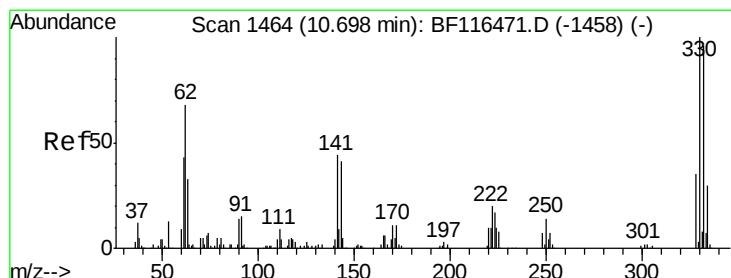
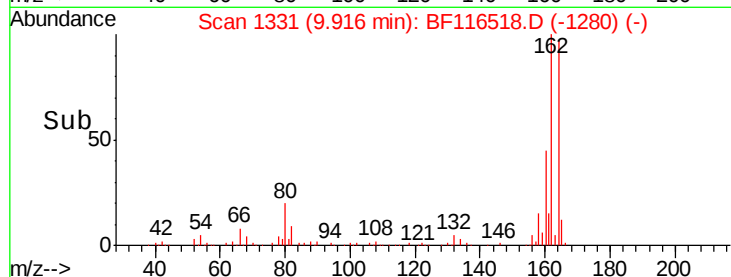
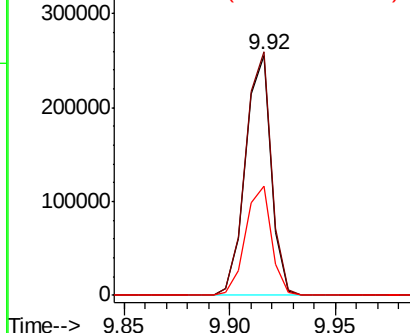
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.00 min  
 Lab File: BF116518.D  
 Acq: 24 Aug 2019 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.5 | 82.6  | 123.8 |
| 160     | 45.7  | 35.8  | 53.8  |

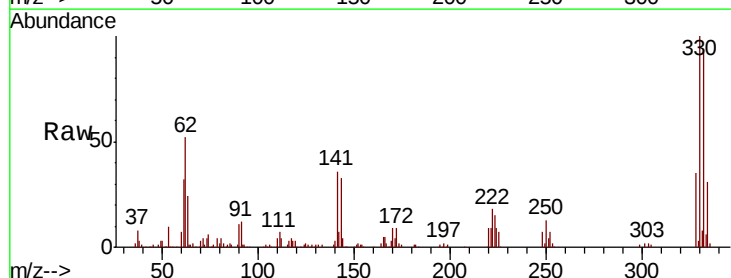


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

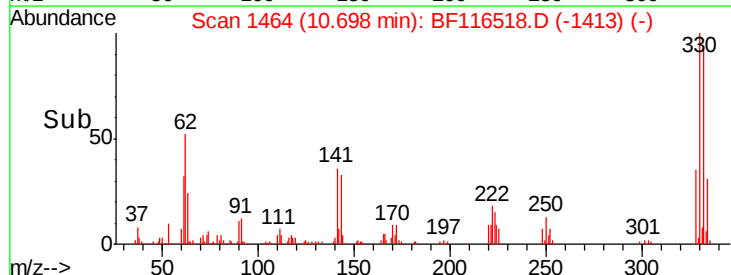
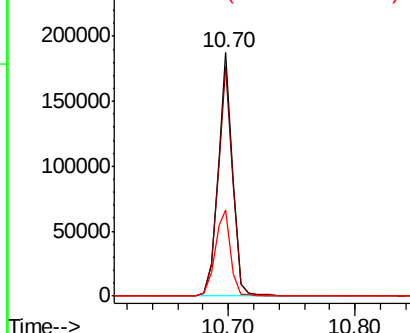


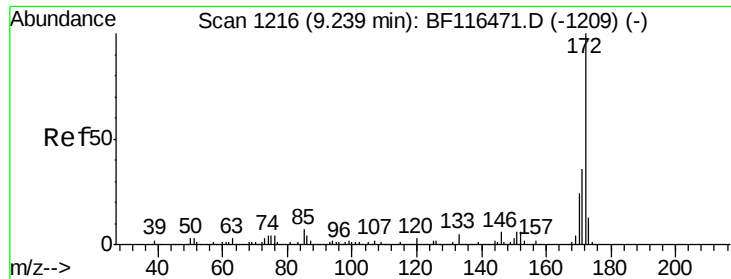
#42  
 2,4,6-Tribromophenol  
 Concen: 80.653 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.00 min  
 Lab File: BF116518.D  
 Acq: 24 Aug 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 77.2  | 115.8 |
| 141     | 38.1  | 33.3  | 49.9  |



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

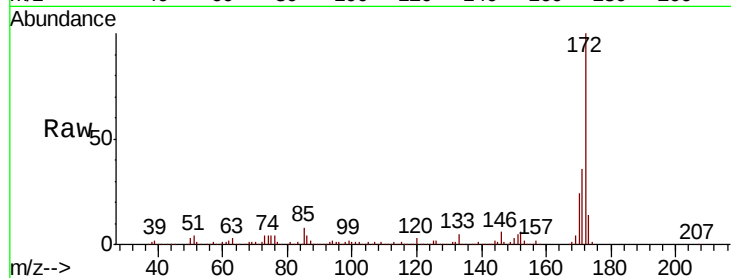




#45  
2-Fluorobiphenyl  
Concen: 64.597 ng  
RT: 9.23 min Scan# 1215  
Delta R.T. -0.01 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 28.9  | 43.3  |
| 170     | 23.7  | 19.4  | 29.0  |

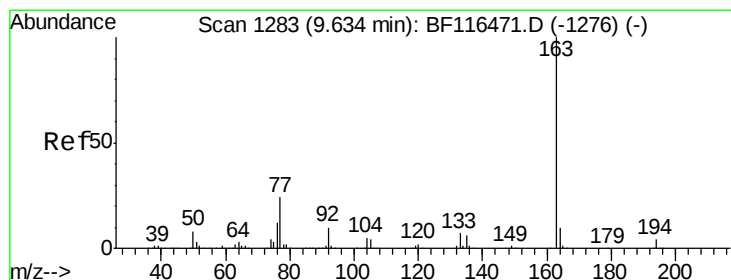
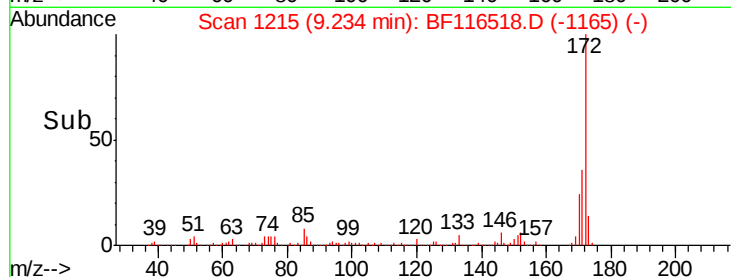
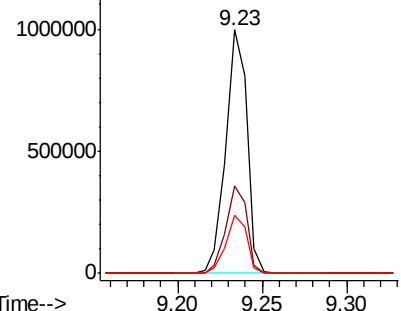


Abundance

Ion 172.00 (171.70 to 172.70): E

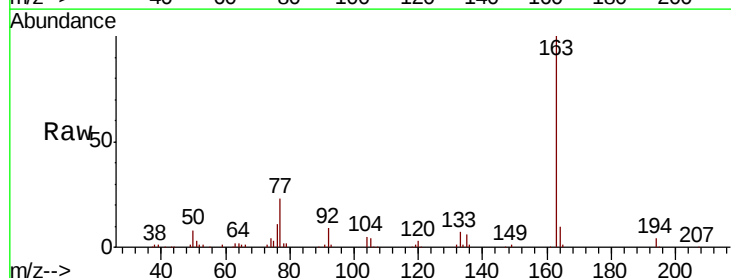
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 7.595 ng  
RT: 9.62 min Scan# 1281  
Delta R.T. -0.01 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.5   | 2.9   | 4.3   |
| 164     | 9.7   | 8.2   | 12.2  |

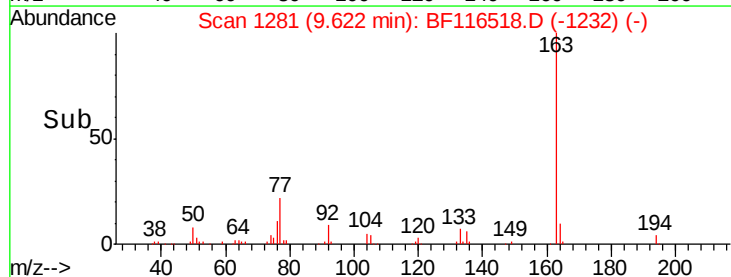
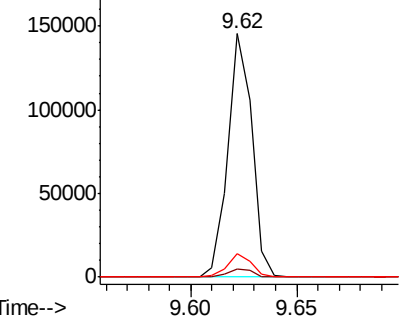


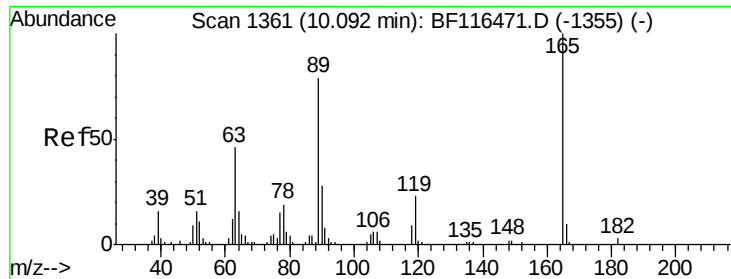
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

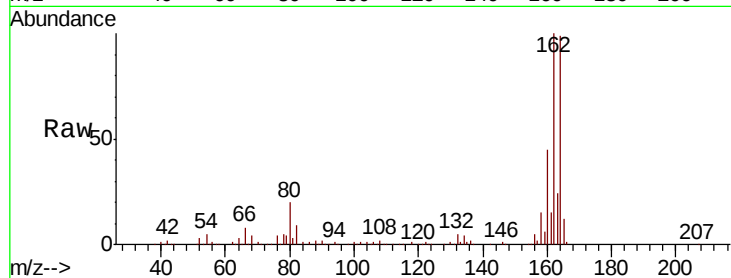




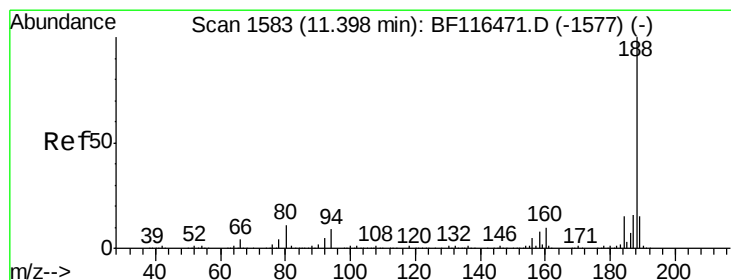
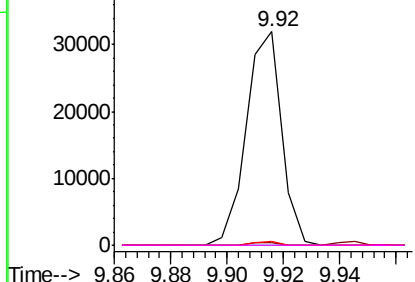
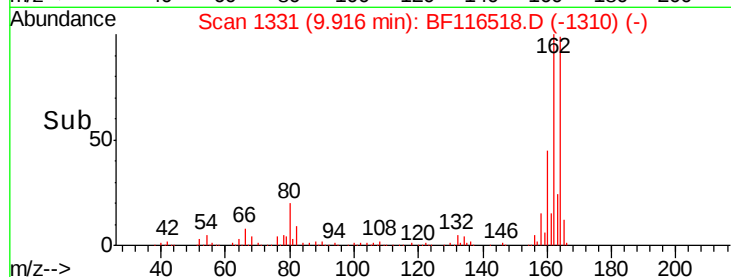
#57  
 2,4-Dinitrotoluene  
 Concen: 7.049 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.18 min  
 Lab File: BF116518.D  
 Acq: 24 Aug 2019 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 27740  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 36.9 55.3#  
 89 1.7 63.4 95.0#  
 182 0.0 2.1 3.1#

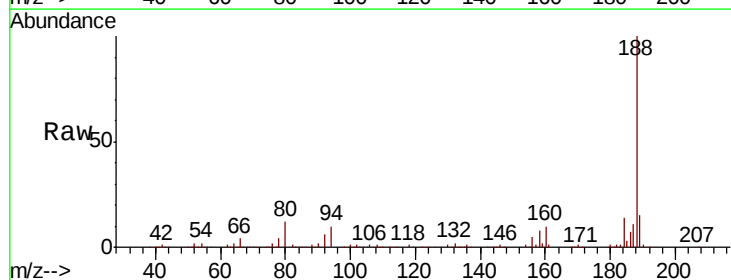


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

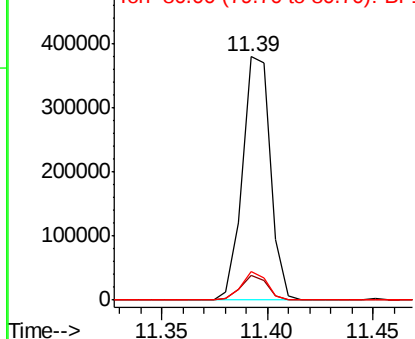
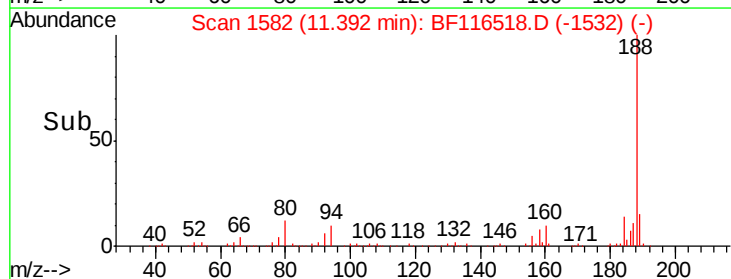


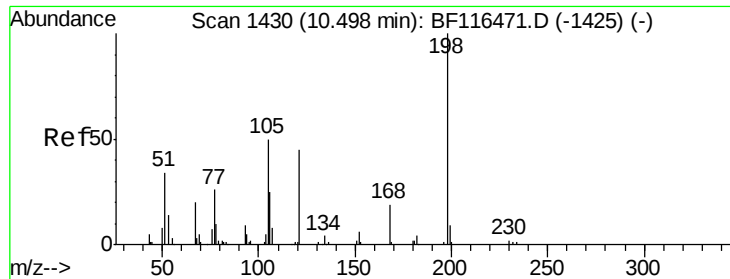
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1582  
 Delta R.T. -0.01 min  
 Lab File: BF116518.D  
 Acq: 24 Aug 2019 12:46

Tgt Ion:188 Resp: 348005  
 Ion Ratio Lower Upper  
 188 100  
 94 10.3 7.4 11.2  
 80 11.9 8.6 12.8



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





#65

4,6-Dinitro-2-methylphenol

Concen: 7.212 ng

RT: 10.69 min Scan# 1463

Delta R.T. 0.19 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

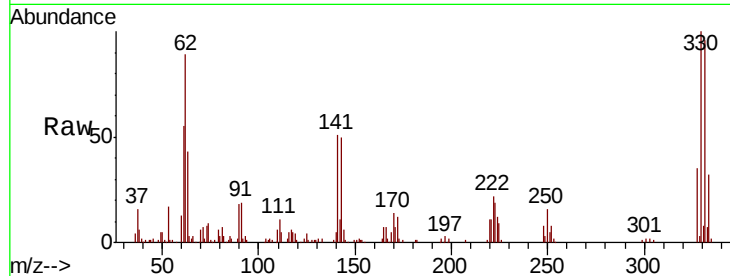
Tot Ion:198 Resp: 345

Ion Ratio Lower Upper

198 100

51 210.0 30.4 70.4#

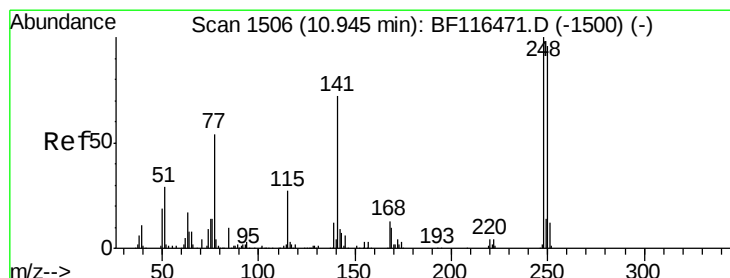
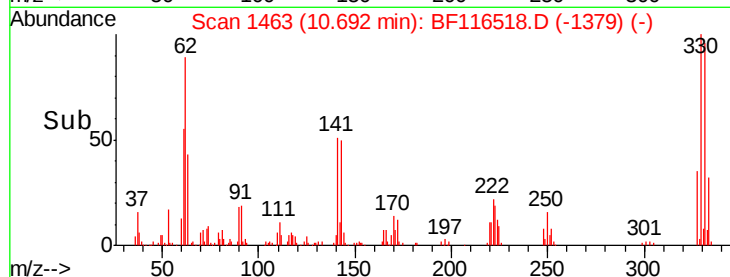
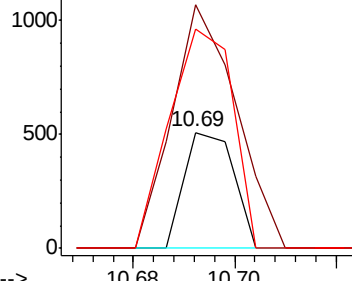
105 189.0 32.8 72.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 2.806 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.25 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

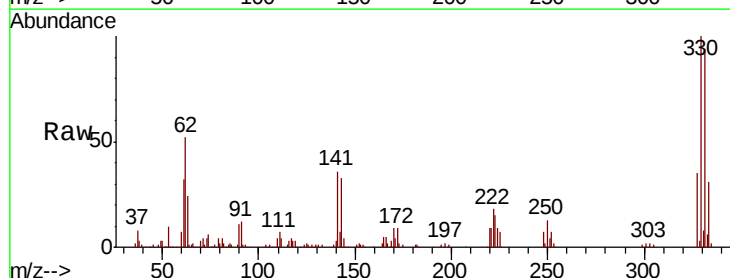
Tgt Ion:248 Resp: 10236

Ion Ratio Lower Upper

248 100

250 202.2 77.0 115.6#

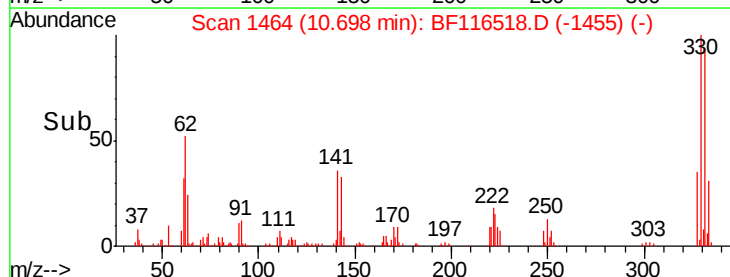
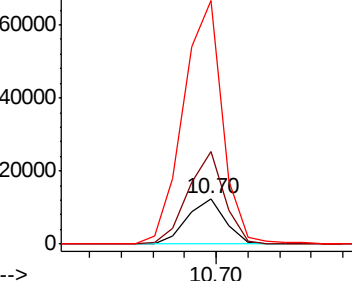
141 534.6 57.4 86.0#

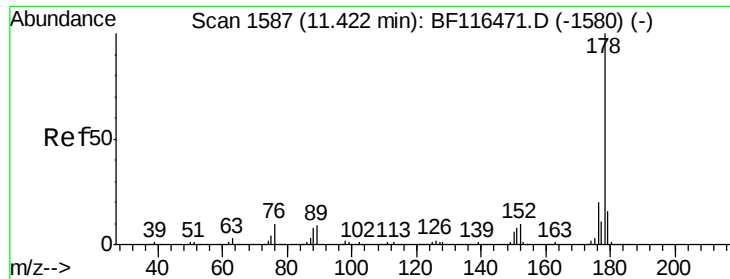


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

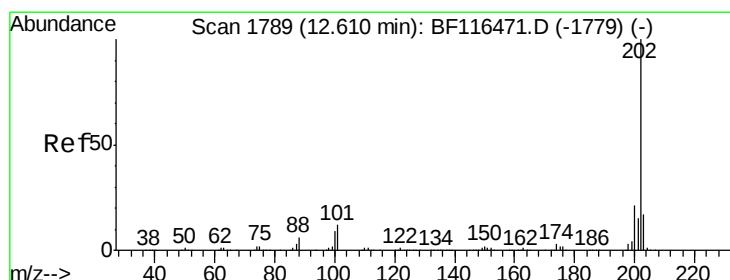
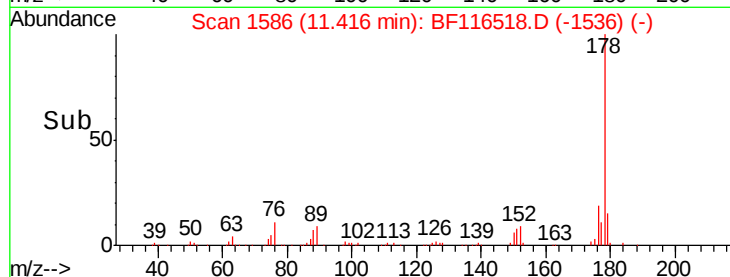
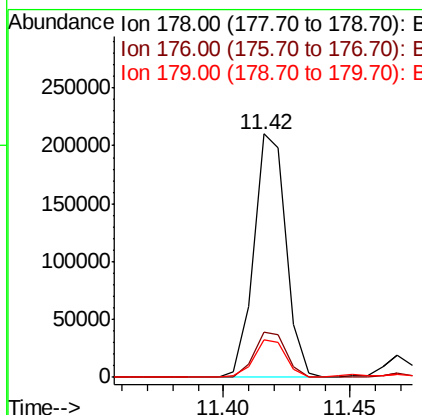
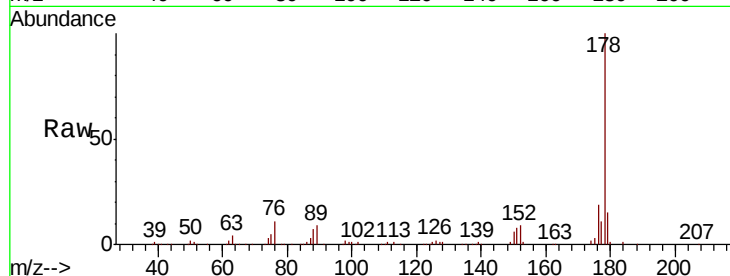




#71  
Phenanthrene  
Concen: 9.780 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.01 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

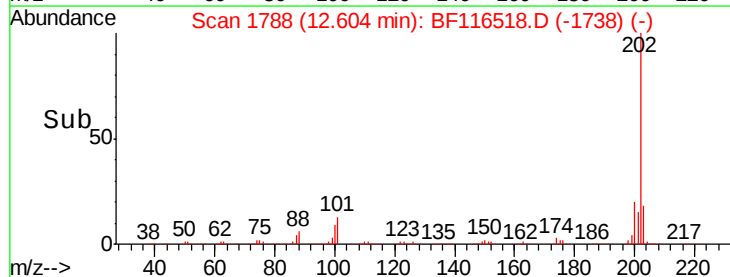
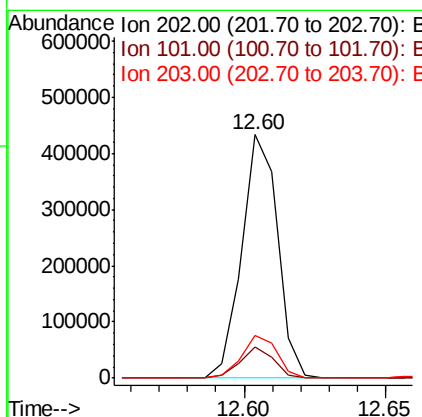
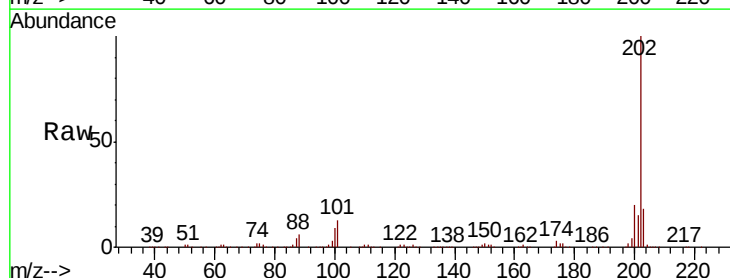
Instrument :  
BNA\_F  
ClientSampled :

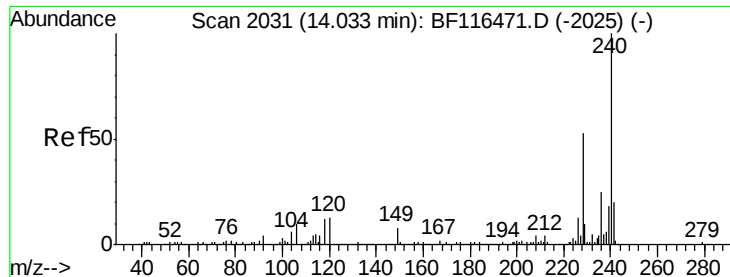
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 15.8  | 23.6  |
| 179     | 15.2  | 12.8  | 19.2  |



#75  
Fluoranthene  
Concen: 19.425 ng  
RT: 12.60 min Scan# 1788  
Delta R.T. -0.01 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.0  | 0.0   | 31.5  |
| 203     | 17.8  | 0.0   | 37.5  |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

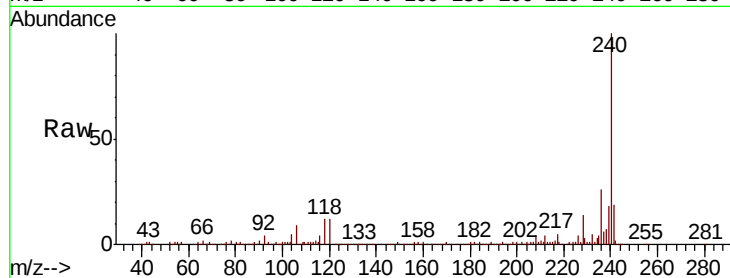
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:240 Resp: 242027

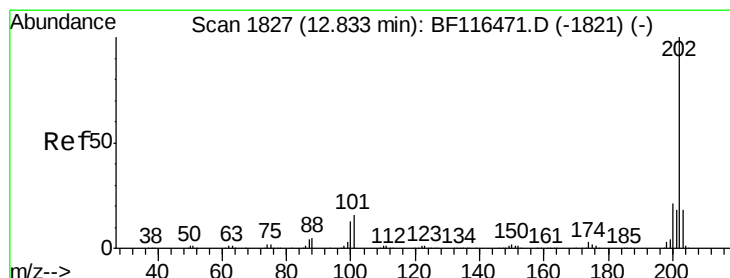
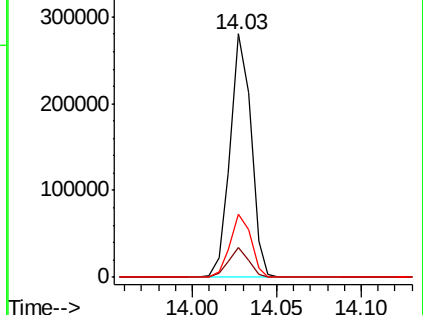
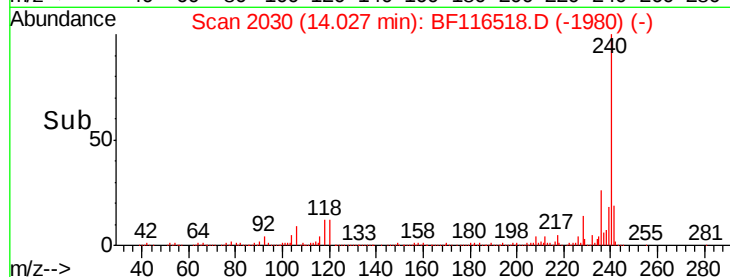
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 12.3  | 10.5  | 15.7  |
| 236 | 25.8  | 20.2  | 30.2  |



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: 15.643 ng

RT: 12.83 min Scan# 1827

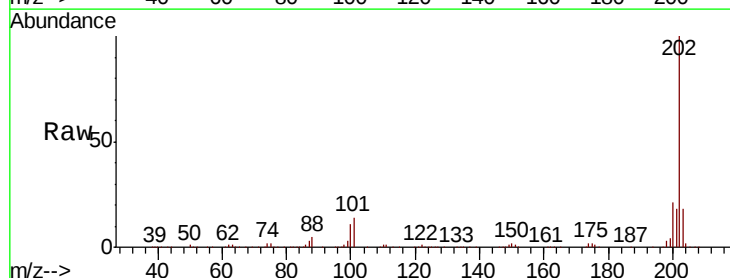
Delta R.T. -0.00 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

Tgt Ion:202 Resp: 302767

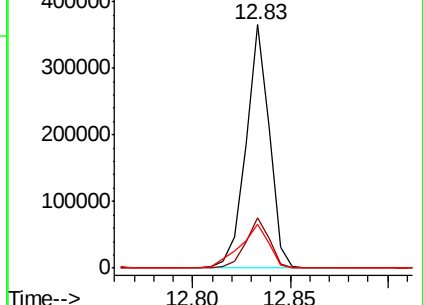
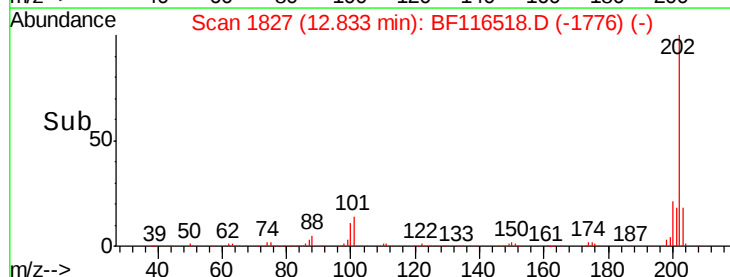
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 20.9  | 17.0  | 25.4  |
| 203 | 18.3  | 14.2  | 21.4  |

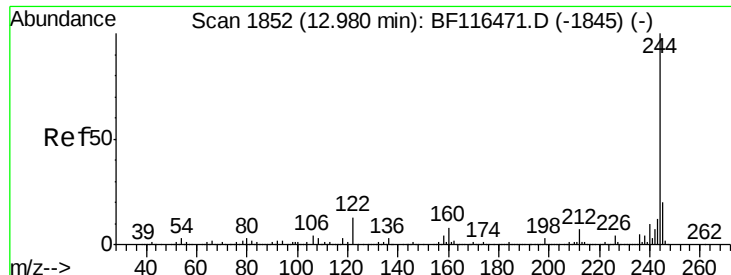


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 60.409 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.00 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

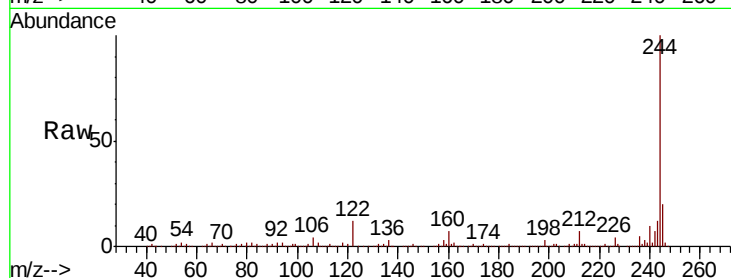
Tot Ion:244 Resp: 782727

Ion Ratio Lower Upper

244 100

212 6.7 5.7 8.5

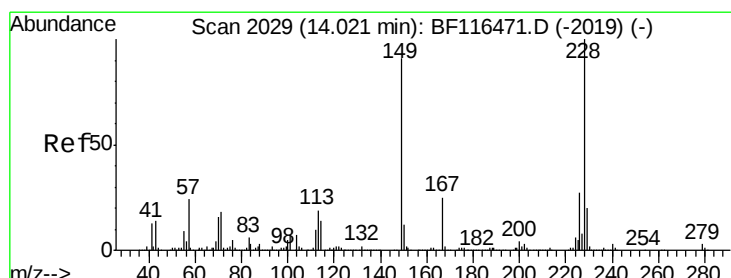
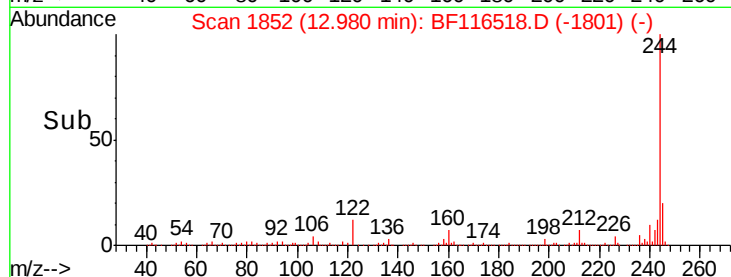
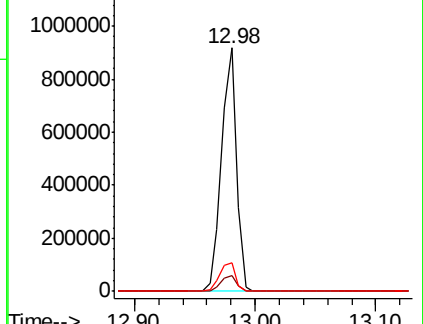
122 11.8 10.2 15.4



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



#81

Benzo(a)anthracene

Concen: 7.781 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF116518.D

Acq: 24 Aug 2019 12:46

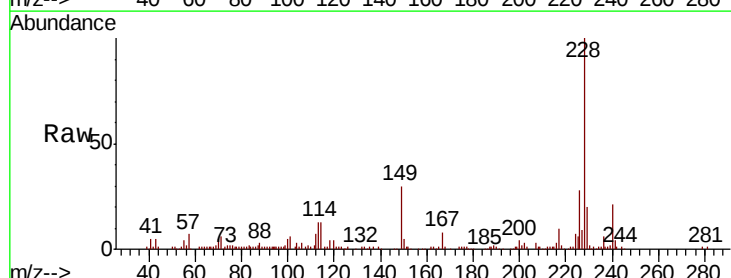
Tgt Ion:228 Resp: 121965

Ion Ratio Lower Upper

228 100

226 28.3 21.8 32.6

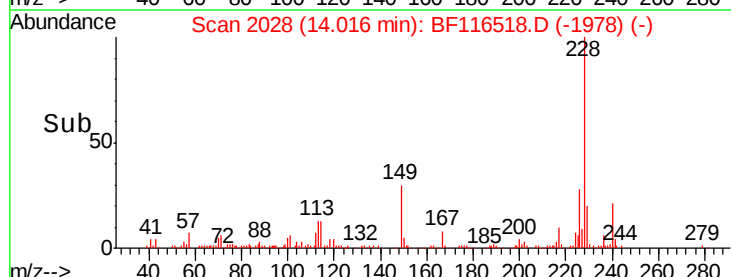
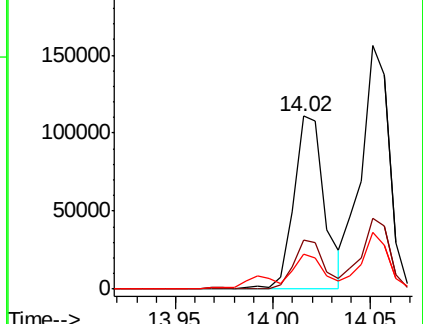
229 20.1 15.9 23.9

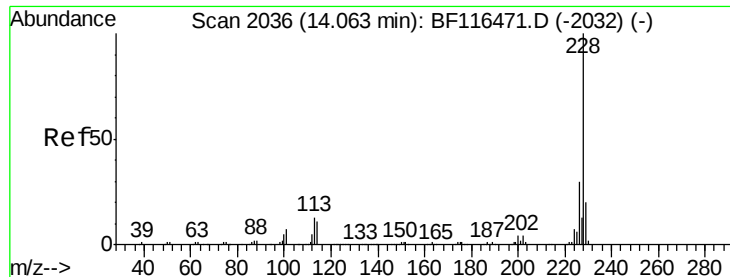


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

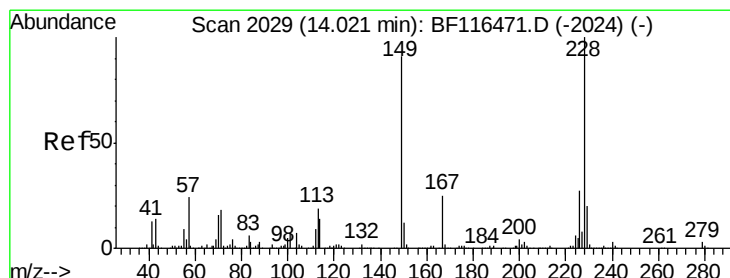
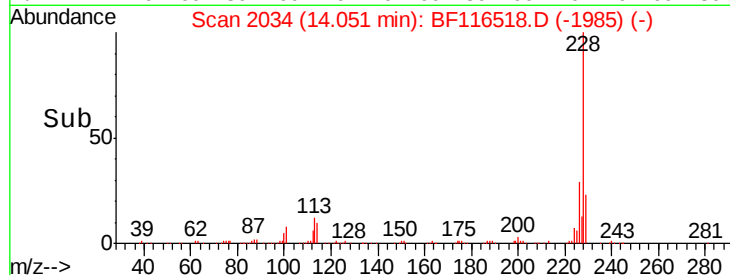
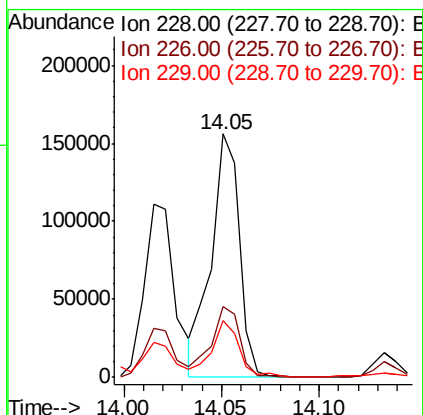
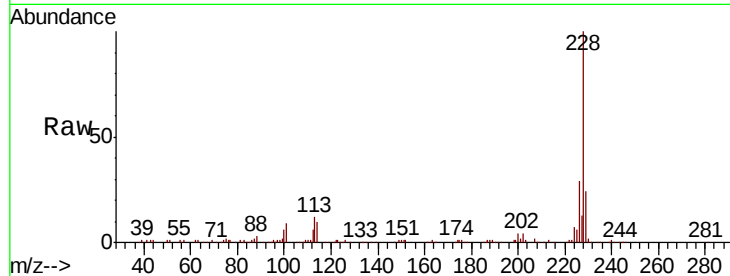




#83  
 Chrvsene  
 Concen: 9.917 ng  
 RT: 14.05 min Scan# 2034  
 Delta R.T. -0.01 min  
 Lab File: BF116518.D  
 Acq: 24 Aug 2019 12:46

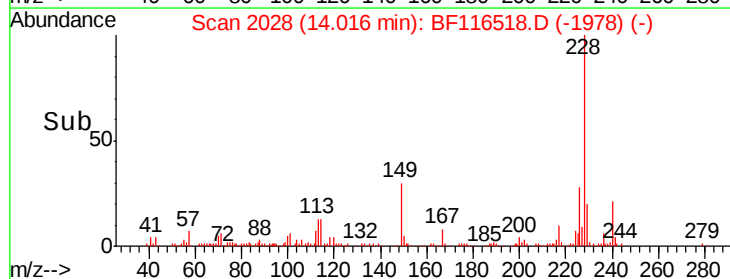
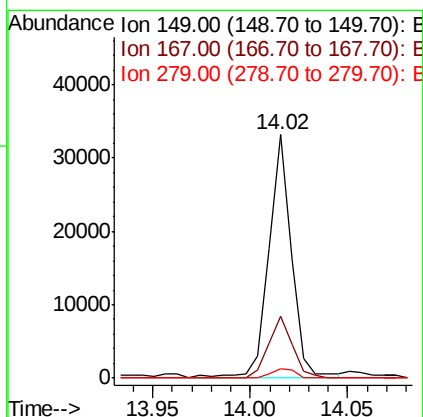
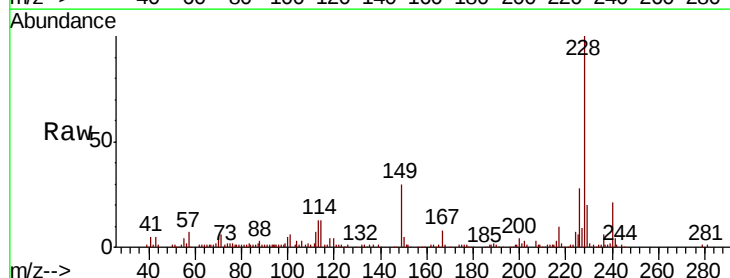
Instrument :  
 BNA\_F  
 ClientSampleId :

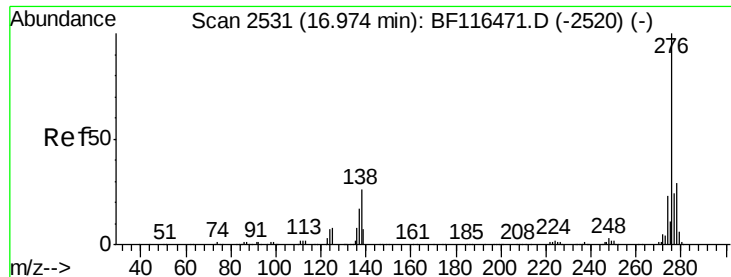
Tot Ion:228 Resp: 157560  
 Ion Ratio Lower Upper  
 228 100  
 226 29.1 24.2 36.2  
 229 23.5 15.8 23.6



#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.416 ng  
 RT: 14.02 min Scan# 2028  
 Delta R.T. -0.01 min  
 Lab File: BF116518.D  
 Acq: 24 Aug 2019 12:46

Tgt Ion:149 Resp: 26925  
 Ion Ratio Lower Upper  
 149 100  
 167 25.2 21.8 32.6  
 279 4.0 3.0 4.4

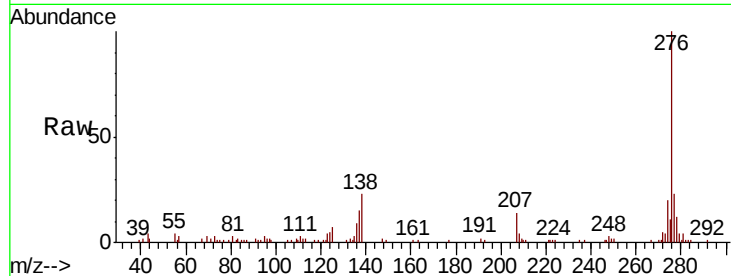




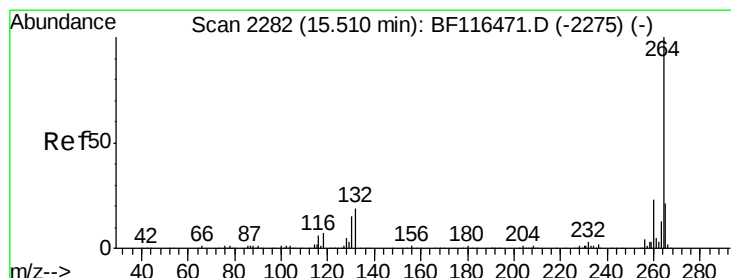
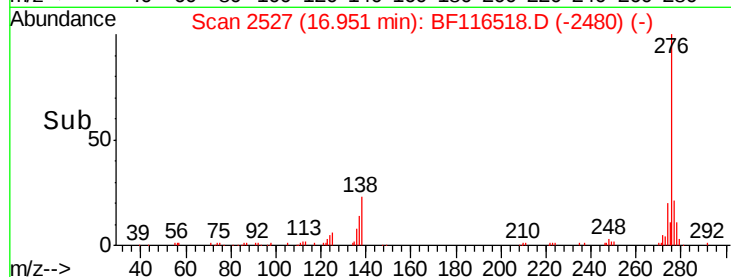
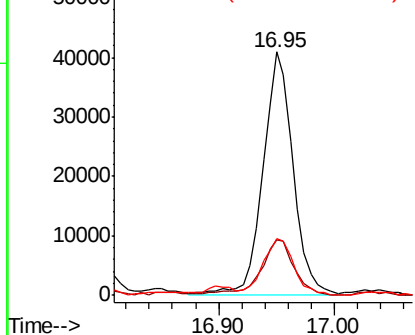
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 5.509 ng  
RT: 16.95 min Scan# 2527  
Delta R.T. -0.02 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.3  | 22.9  | 34.3  |
| 277     | 24.0  | 19.9  | 29.9  |

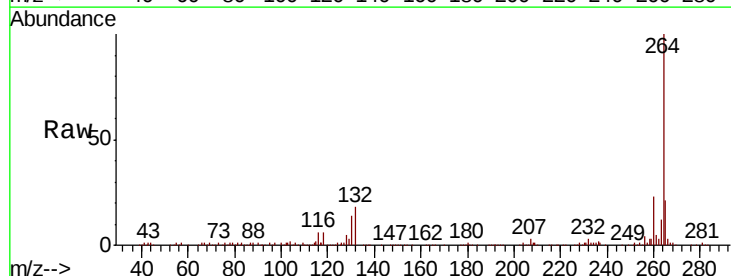


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

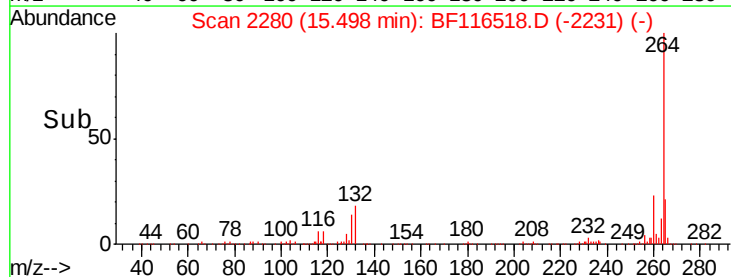
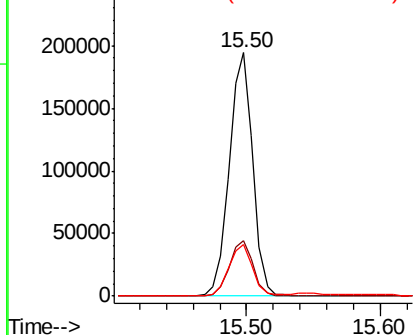


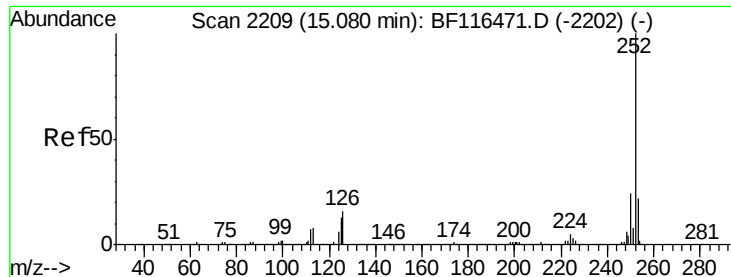
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.9  | 18.8  | 28.2  |
| 265     | 21.0  | 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

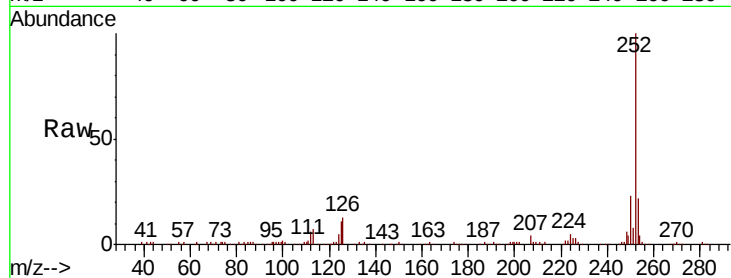




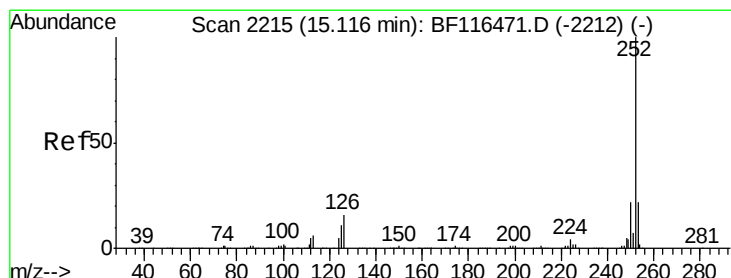
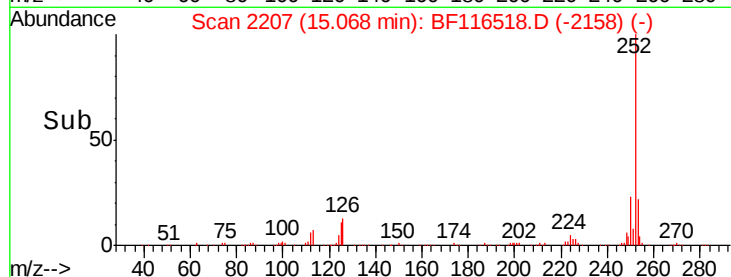
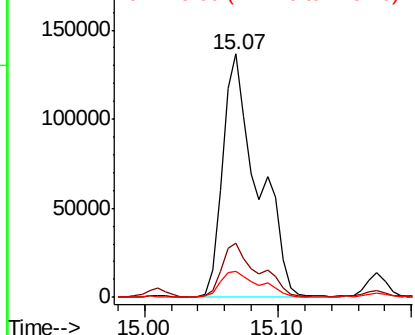
#88  
Benzo(b)fluoranthene  
Concen: 16.923 ng  
RT: 15.07 min Scan# 2207  
Delta R.T. -0.01 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.5  | 26.3  |
| 125     | 10.9  | 10.1  | 15.1  |

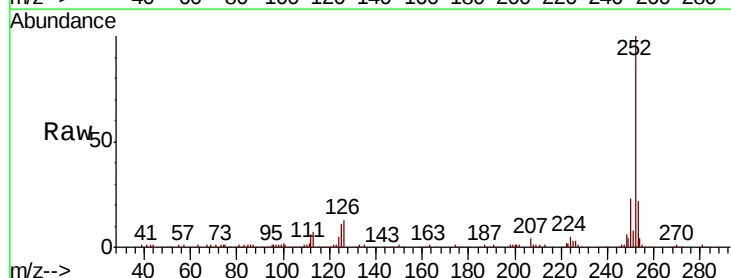


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

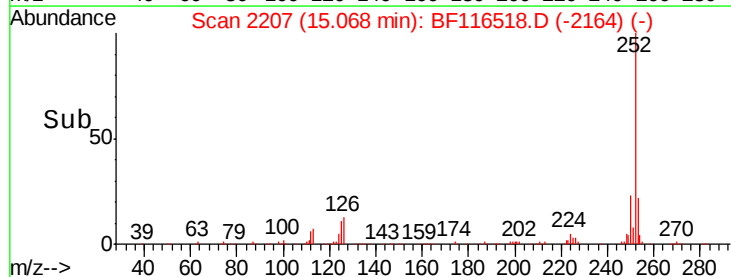
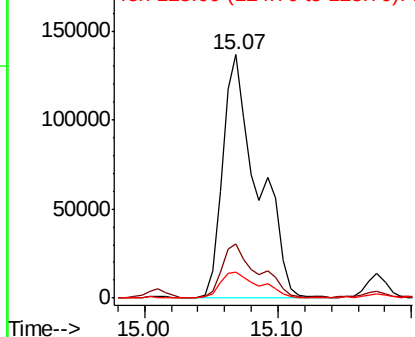


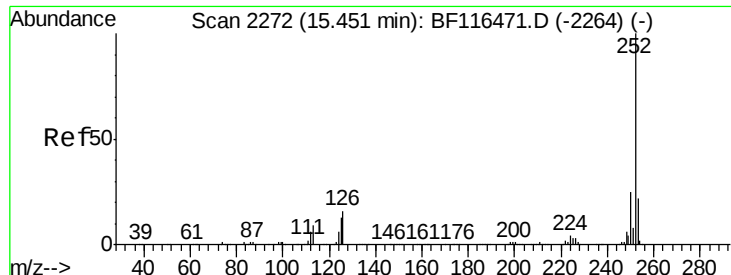
#89  
Benzo(k)fluoranthene  
Concen: 18.680 ng  
RT: 15.07 min Scan# 2207  
Delta R.T. -0.05 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.4  | 26.2  |
| 125     | 10.9  | 9.1   | 13.7  |



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

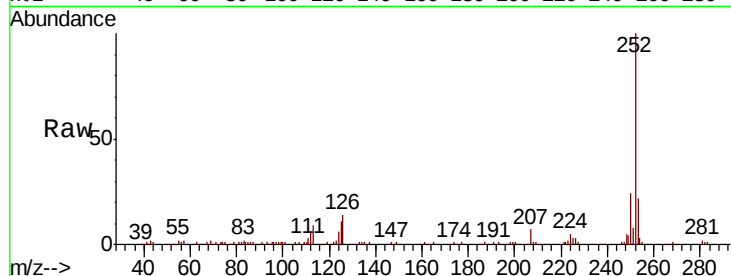




#90  
Benzo(a)pyrene  
Concen: 8.109 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. -0.02 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 17.2  | 25.8  |
| 125     | 11.2  | 10.2  | 15.4  |

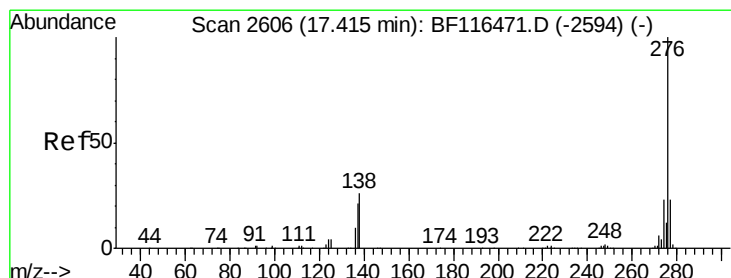
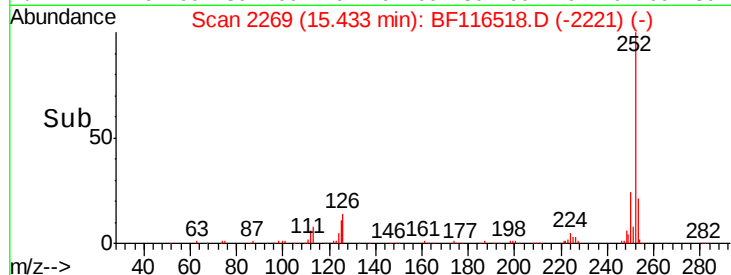
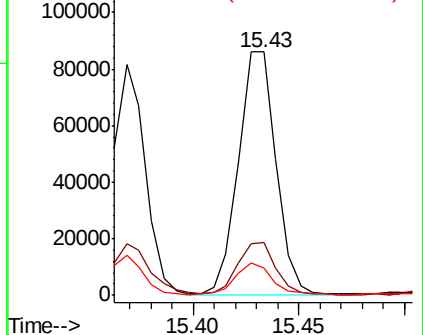


Abundance

Ion 252.00 (251.70 to 252.70): E

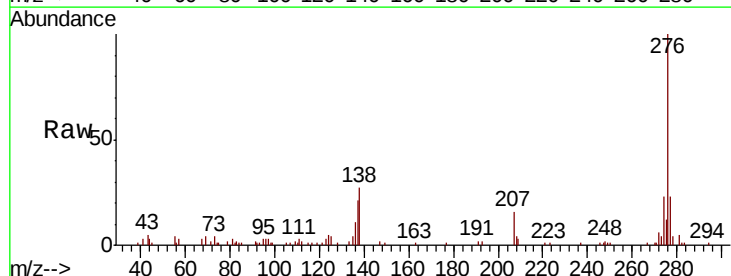
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 6.726 ng  
RT: 17.39 min Scan# 2602  
Delta R.T. -0.02 min  
Lab File: BF116518.D  
Acq: 24 Aug 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.0  | 18.7  | 28.1  |
| 138     | 27.1  | 20.8  | 31.2  |



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

