

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012819\  
 Data File : BF112277.D  
 Acq On : 28 Jan 2019 16:25  
 Operator : JU/SJ  
 Sample : K1261-03  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MH-C05

Quant Time: Jan 28 16:53:51 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 229549   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 902845   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.87  | 164  | 451520   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.36 | 188  | 900546   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.00 | 240  | 693238   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.47 | 264  | 532421   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.49  | 112  | 1662232  | 153.81 | ng    | 0.00     |
| 7) Phenol-d6                | 6.49  | 99   | 2135005  | 142.17 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 1384330  | 88.35  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 714747   | 136.00 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 2539418  | 79.54  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.95 | 244  | 2711750  | 73.68  | ng    | 0.00     |

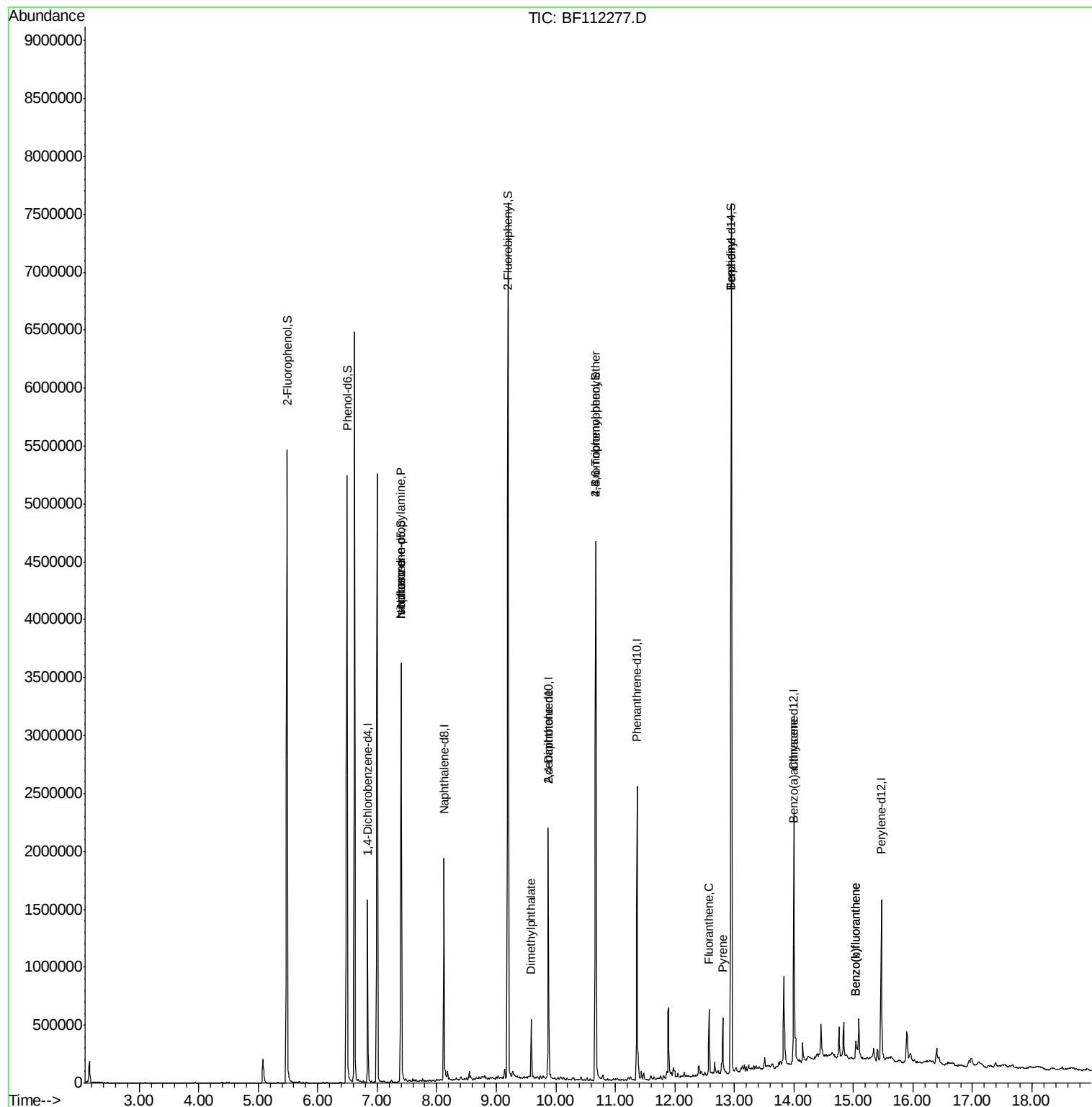
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 189619   | 18.312 | ng    | # 75   |
| 25) Isophorone                 | 7.40  | 82   | 1371577  | 55.797 | ng    | # 64   |
| 50) Dimethylphthalate          | 9.59  | 163  | 184424   | 5.257  | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 57714    | 5.770  | ng    | # 31   |
| 67) 4-Bromophenyl-phenylether  | 10.67 | 248  | 43488    | 4.106  | ng    | # 1    |
| 75) Fluoranthene               | 12.57 | 202  | 205583   | 4.094  | ng    | 96     |
| 77) Benzidine                  | 12.95 | 184  | 38433    | 2.014  | ng    | 97     |
| 78) Pyrene                     | 12.80 | 202  | 187107   | 3.898  | ng    | 97     |
| 81) Benzo(a)anthracene         | 13.99 | 228  | 88124    | 2.162  | ng    | 99     |
| 88) Benzo(b)fluoranthene       | 15.04 | 252  | 98688    | 3.099  | ng    | # 94   |
| 89) Benzo(k)fluoranthene       | 15.04 | 252  | 98688    | 3.236  | ng    | # 94   |

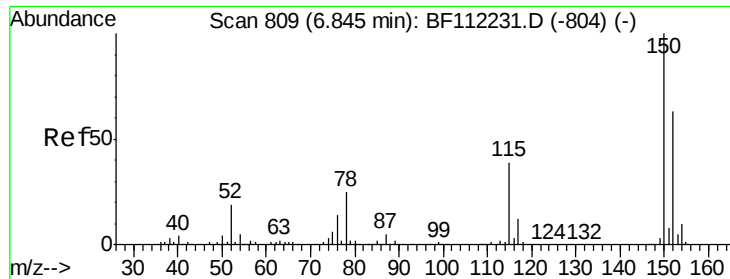
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 16 Sample Multiplier: 1

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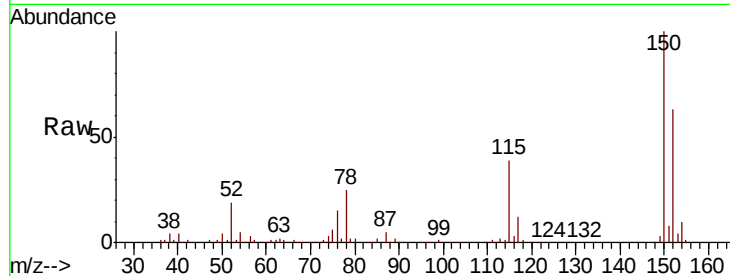


#1

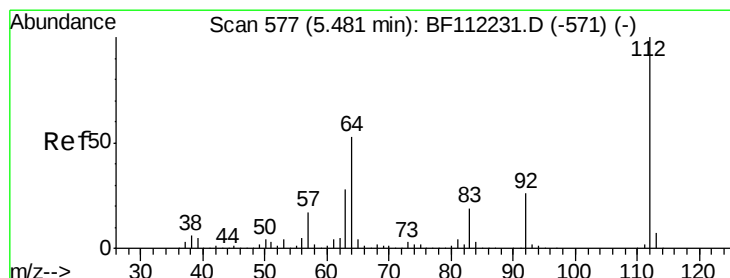
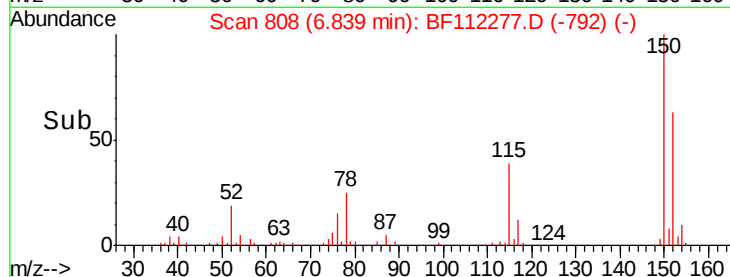
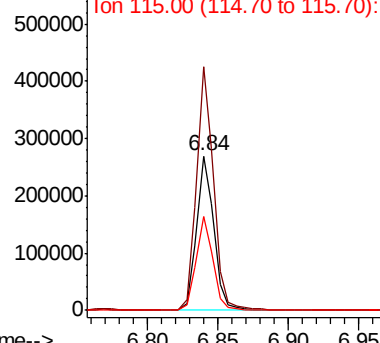
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.84 min Scan# 808  
 Delta R.T. -0.01 min  
 Lab File: BF112277.D  
 Acq: 28 Jan 2019 16:25

Instrument :  
 BNA\_F  
 ClientSampled :  
 MH-C05

Tot Ion:152 Resp: 229549  
 Ion Ratio Lower Upper  
 152 100  
 150 157.9 127.4 191.0  
 115 61.0 45.5 68.3



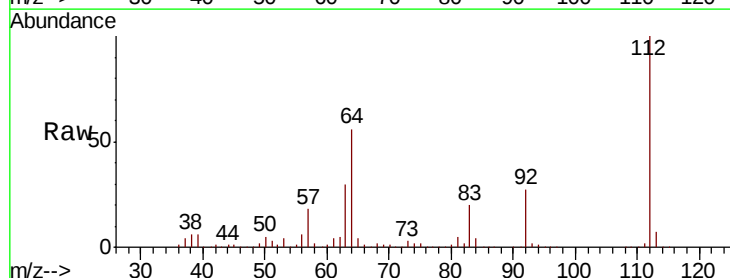
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



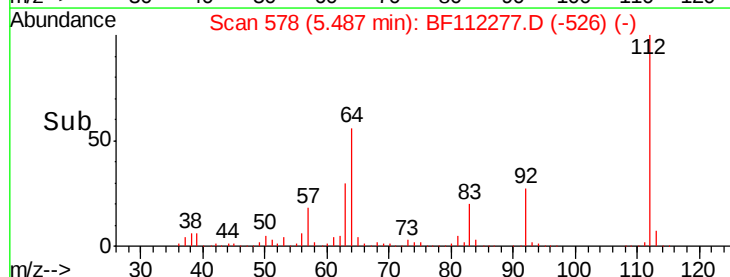
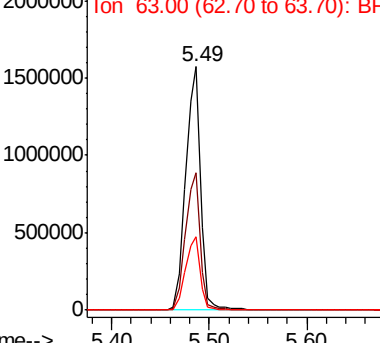
#5

2-Fluorophenol  
 Concen: 153.810 ng  
 RT: 5.49 min Scan# 578  
 Delta R.T. 0.01 min  
 Lab File: BF112277.D  
 Acq: 28 Jan 2019 16:25

Tgt Ion:112 Resp: 1662232  
 Ion Ratio Lower Upper  
 112 100  
 64 56.4 45.7 68.5  
 63 30.4 23.6 35.4



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: 142.173 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

Instrument :

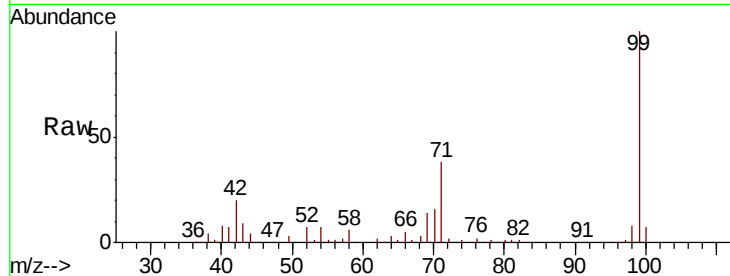
BNA\_F

ClientSampleId :

MH-C05

Tot Ion: 99 Resp: 2135005

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.5  | 15.1  | 22.7  |
| 71  | 37.6  | 26.9  | 40.3  |

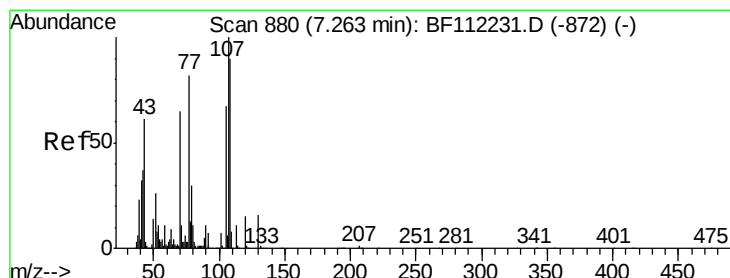
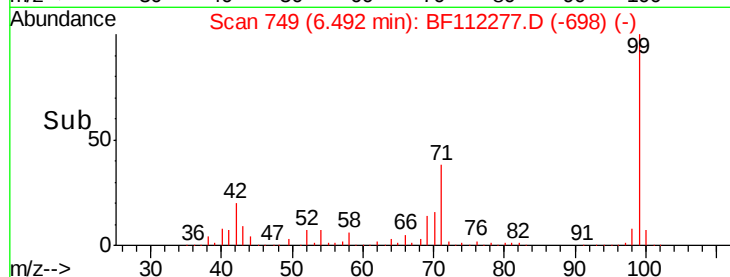
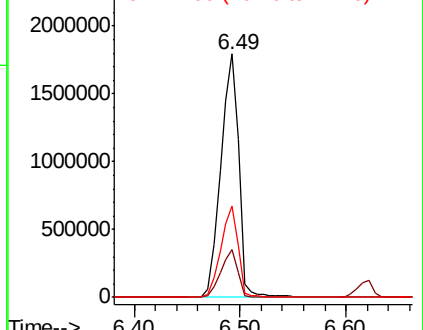


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 18.312 ng

RT: 7.40 min Scan# 904

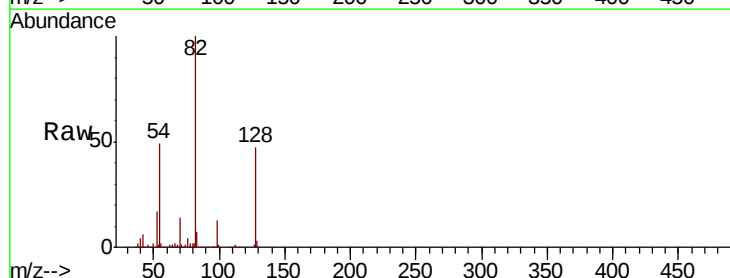
Delta R.T. 0.14 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

Tgt Ion: 70 Resp: 189619

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 46.4  | 47.6  | 71.4# |
| 101 | 0.0   | 7.9   | 11.9# |
| 130 | 2.0   | 18.4  | 27.6# |



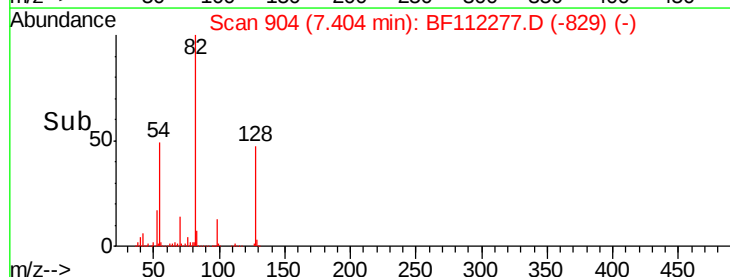
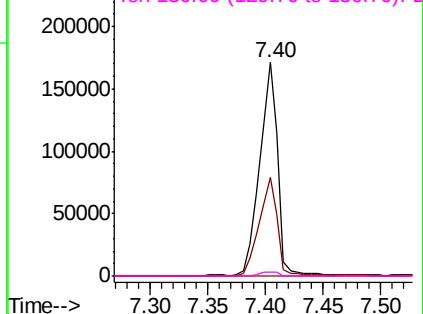
Abundance

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: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

Instrument :

BNA\_F

ClientSampled :

MH-C05

Tot Ion:136 Resp: 902845

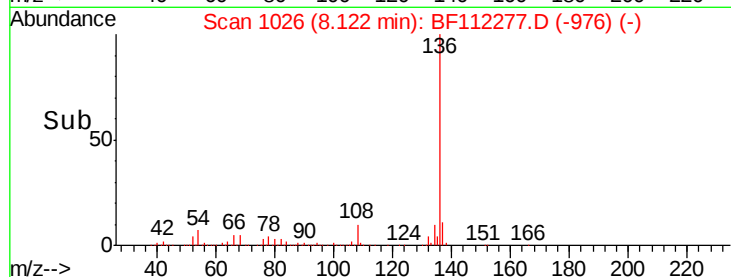
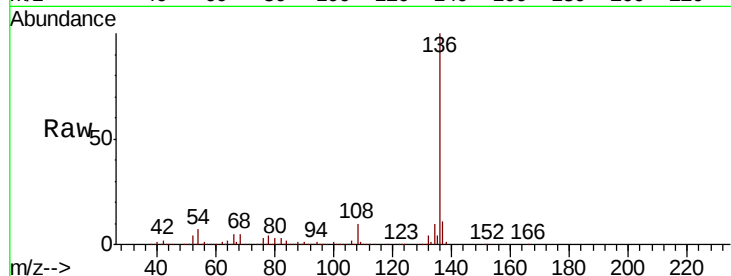
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 6.7 5.9 8.9

68 5.0 5.1 7.7#

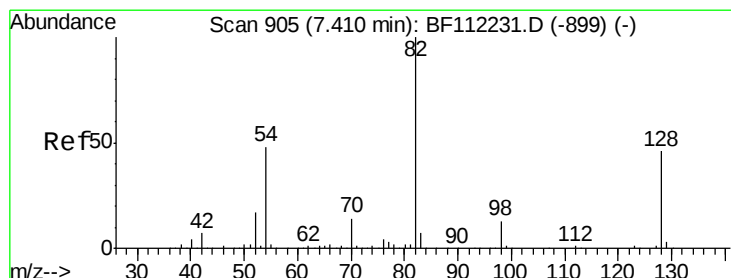
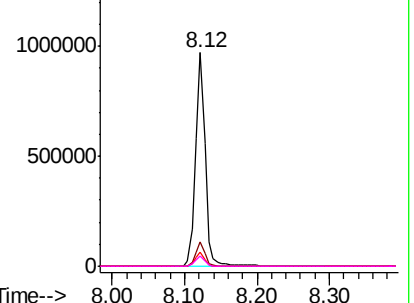


Abundance Ion 136.00 (135.70 to 136.70): E

1500000 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: 88.348 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.01 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

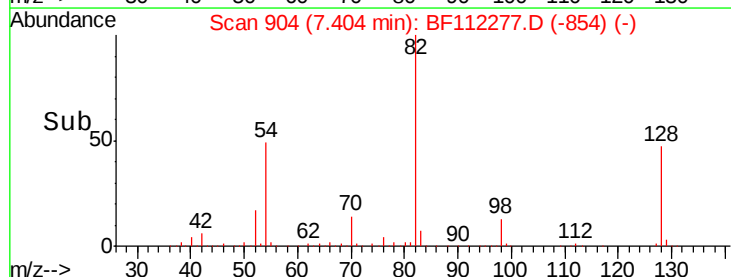
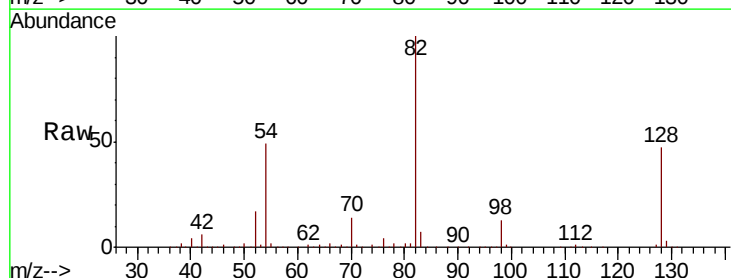
Tgt Ion: 82 Resp: 1384330

Ion Ratio Lower Upper

82 100

128 46.9 37.8 56.8

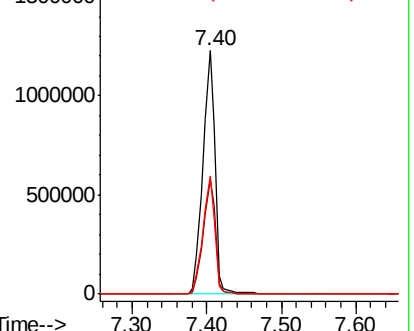
54 48.8 39.7 59.5

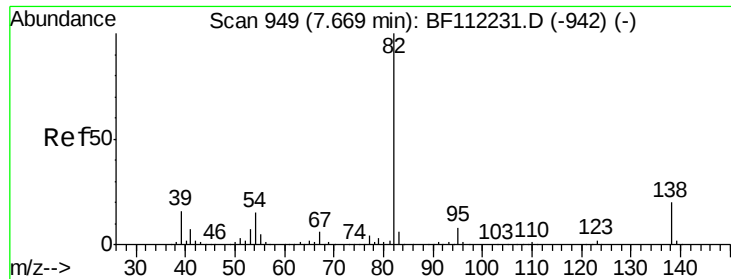


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 55.797 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

Instrument :

BNA\_F

ClientSampleId :

MH-C05

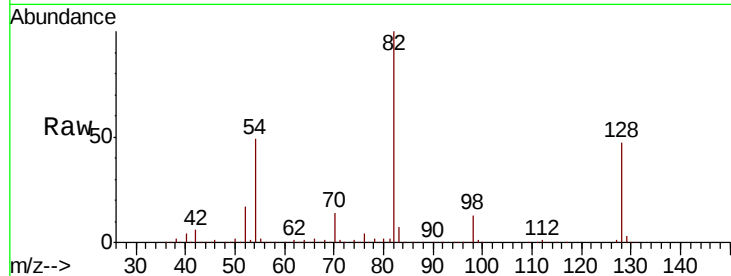
Tot Ion: 82 Resp: 1371577

Ion Ratio Lower Upper

82 100

95 0.1 5.7 8.5#

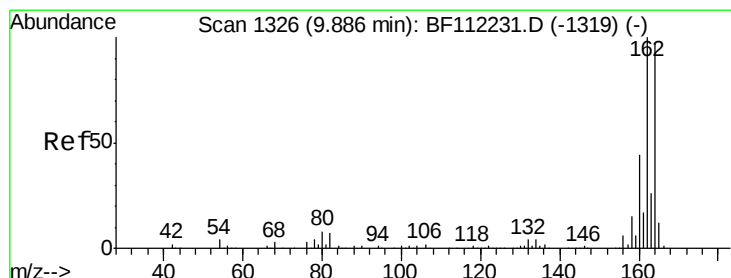
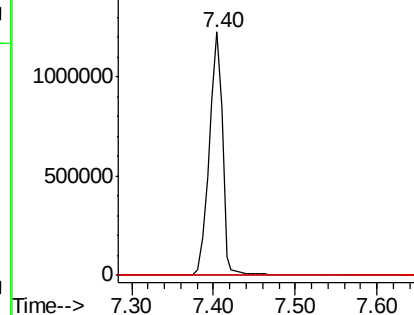
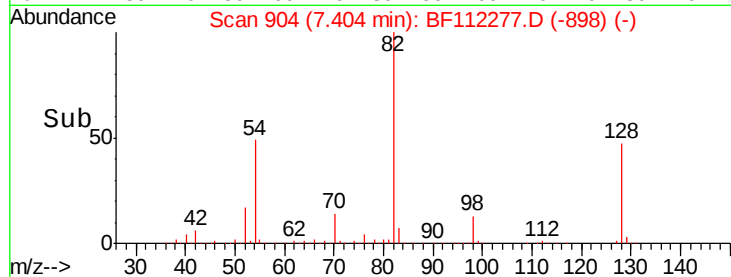
138 0.0 15.4 23.0#



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: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

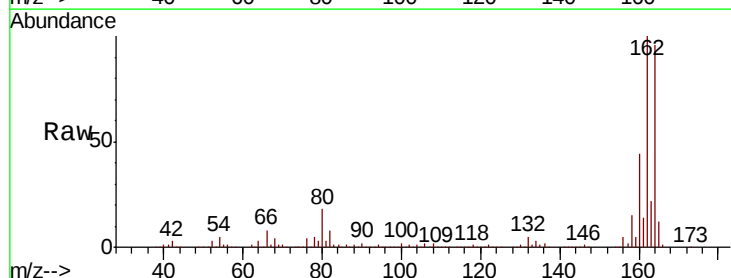
Tgt Ion:164 Resp: 451520

Ion Ratio Lower Upper

164 100

162 104.6 82.2 123.4

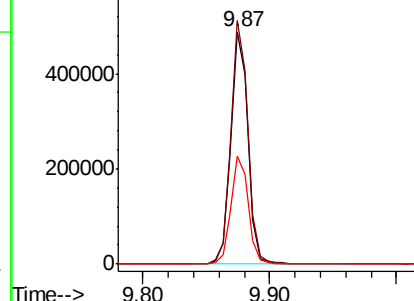
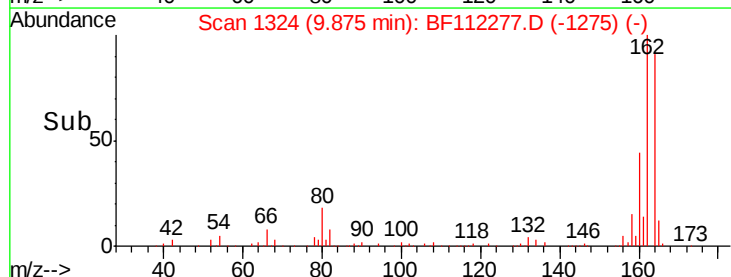
160 46.2 36.2 54.4

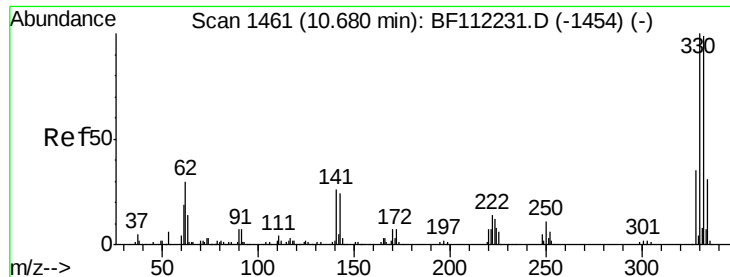


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

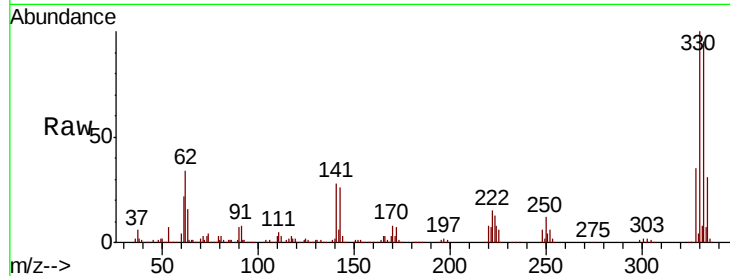




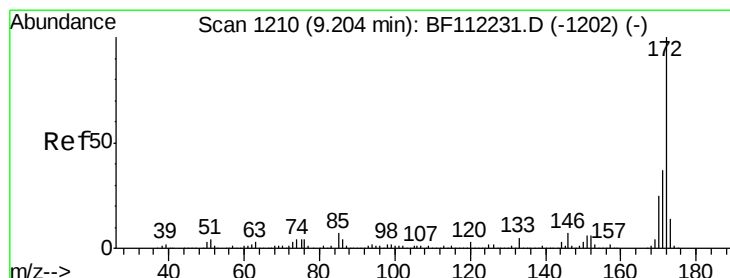
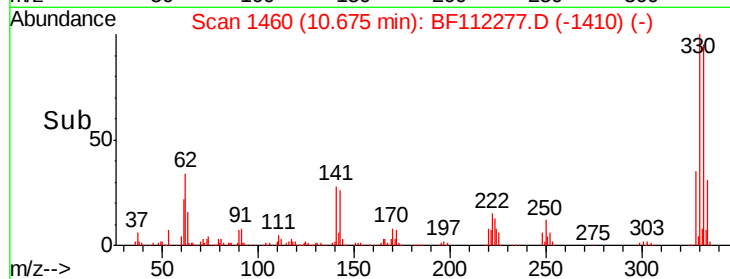
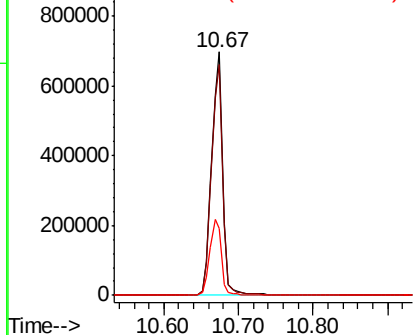
#42  
 2,4,6-Tribromophenol  
 Concen: 135.998 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.01 min  
 Lab File: BF112277.D  
 Acq: 28 Jan 2019 16:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MH-C05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 76.6  | 114.8 |
| 141     | 33.1  | 24.3  | 36.5  |

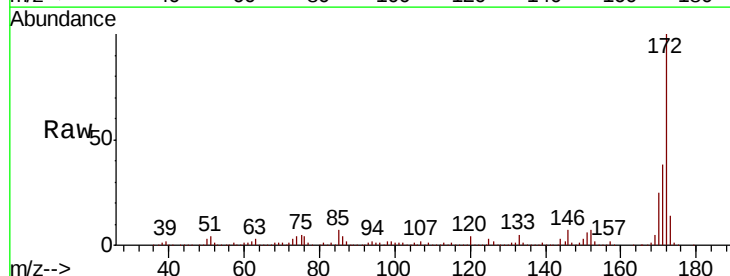


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

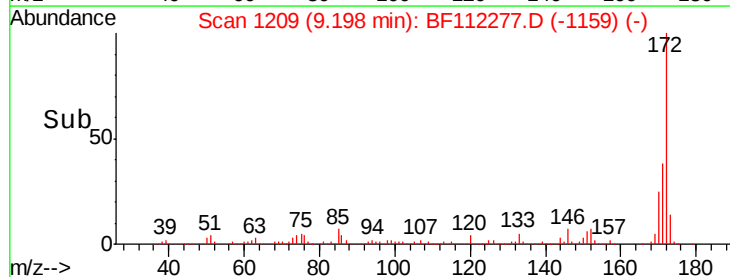
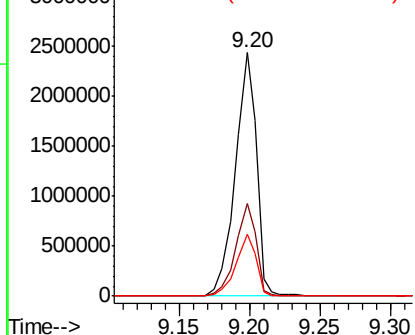


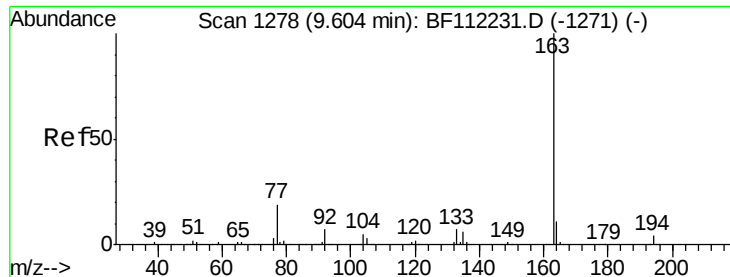
#45  
 2-Fluorobiphenyl  
 Concen: 79.544 ng  
 RT: 9.20 min Scan# 1209  
 Delta R.T. -0.01 min  
 Lab File: BF112277.D  
 Acq: 28 Jan 2019 16:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 30.5  | 45.7  |
| 170     | 25.3  | 20.2  | 30.4  |



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

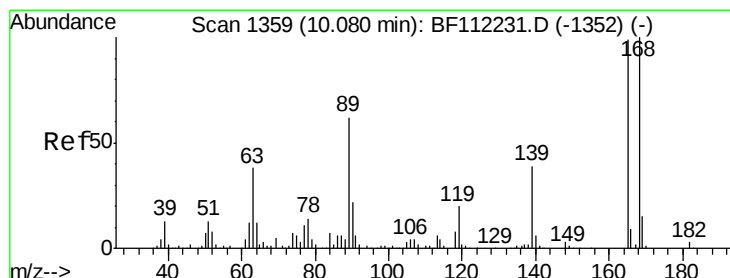
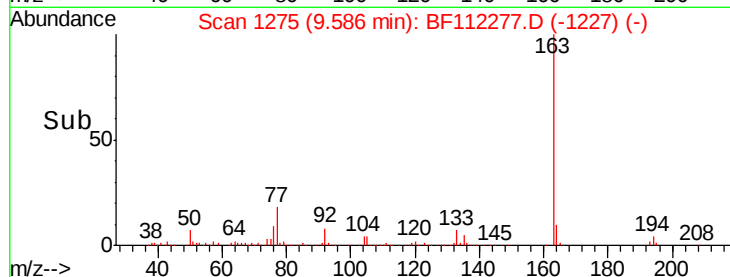
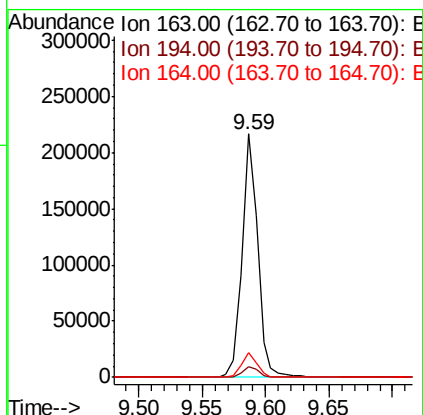
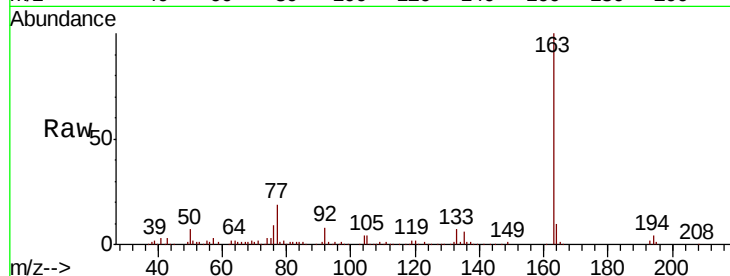




#50  
Dimethylphthalate  
Concen: 5.257 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF112277.D  
Acq: 28 Jan 2019 16:25

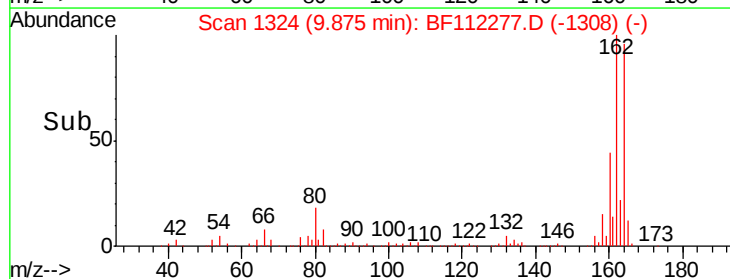
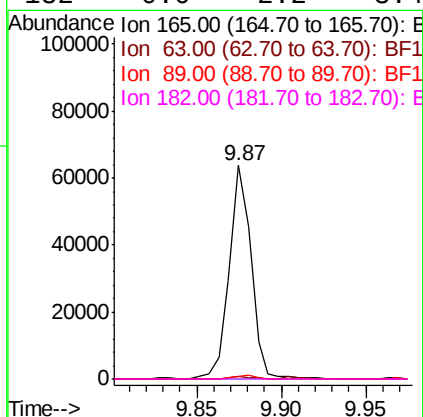
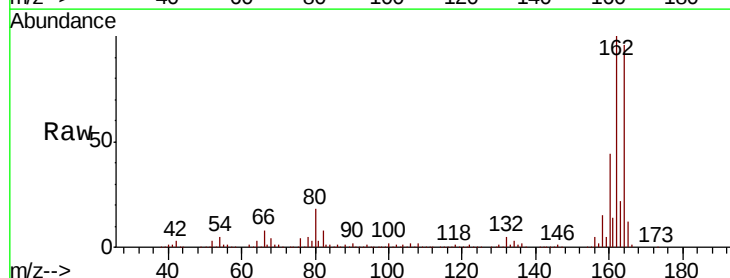
Instrument :  
BNA\_F  
ClientSampleId :  
MH-C05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.3   | 4.9   |
| 164     | 10.0  | 8.5   | 12.7  |



#57  
2,4-Dinitrotoluene  
Concen: 5.770 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. -0.21 min  
Lab File: BF112277.D  
Acq: 28 Jan 2019 16:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 27.9  | 41.9# |
| 89      | 1.3   | 47.9  | 71.9# |
| 182     | 0.0   | 2.2   | 3.4#  |

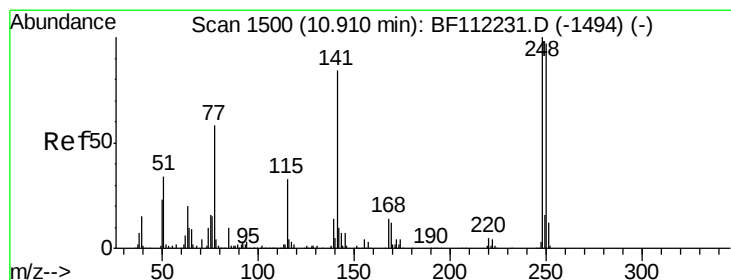
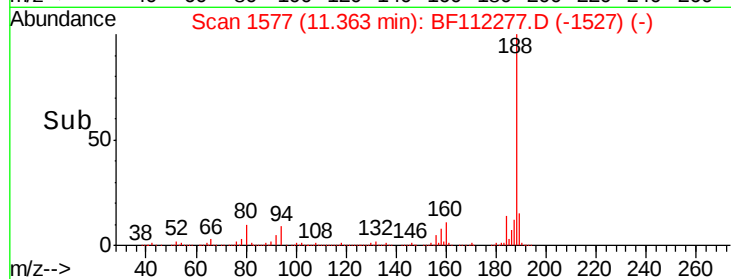
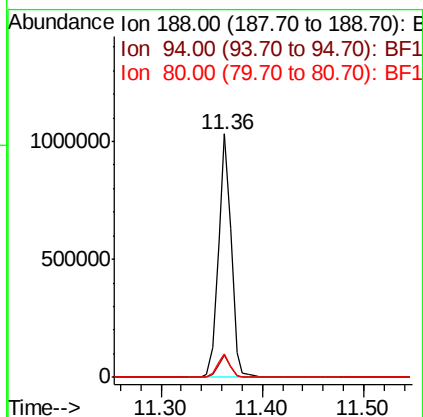
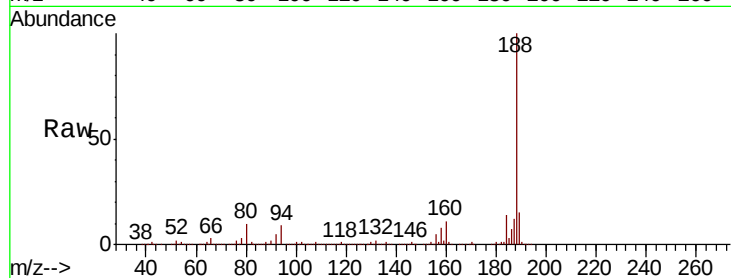




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF112277.D  
Acq: 28 Jan 2019 16:25

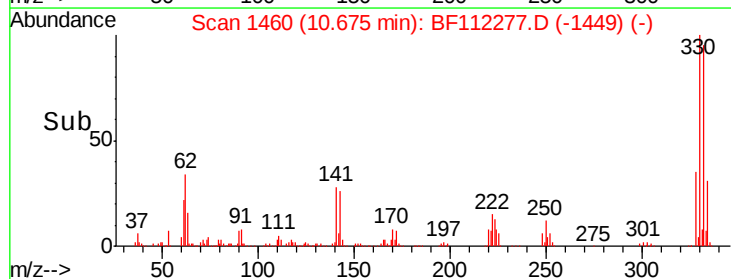
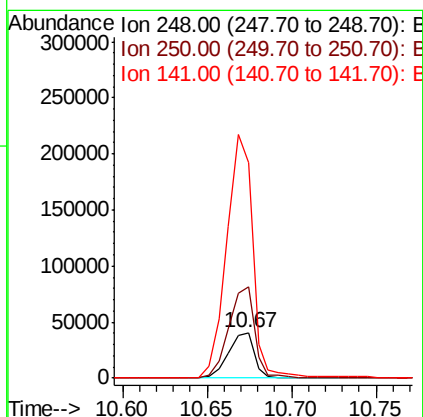
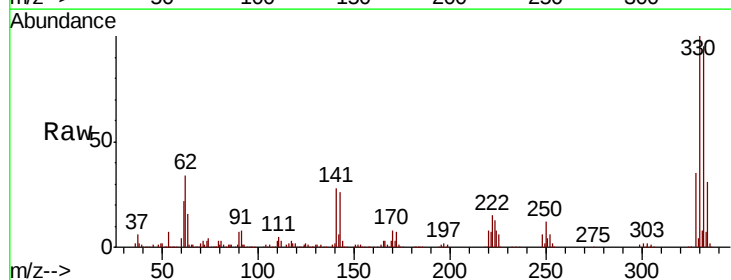
Instrument :  
BNA\_F  
ClientSampleId :  
MH-C05

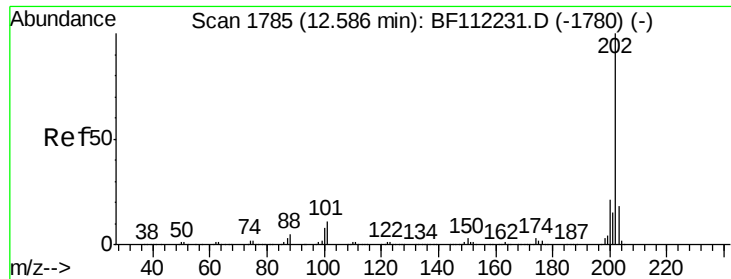
Tot Ion:188 Resp: 900546  
Ion Ratio Lower Upper  
188 100  
94 9.2 8.2 12.2  
80 9.7 8.9 13.3



#67  
4-Bromophenyl-phenylether  
Concen: 4.106 ng  
RT: 10.67 min Scan# 1460  
Delta R.T. -0.24 min  
Lab File: BF112277.D  
Acq: 28 Jan 2019 16:25

Tgt Ion:248 Resp: 43488  
Ion Ratio Lower Upper  
248 100  
250 201.3 79.7 119.5#  
141 474.1 60.3 90.5#





#75

Fluoranthene

Concen: 4.094 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

Instrument :

BNA\_F

ClientSampleId :

MH-C05

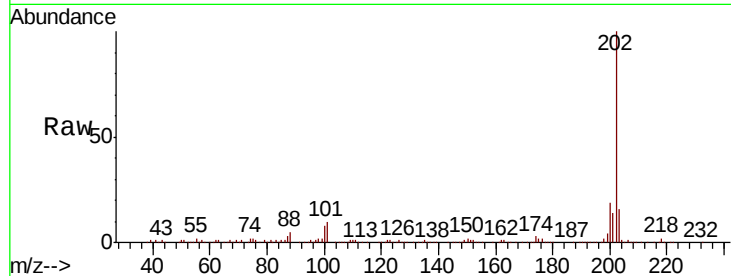
Tot Ion:202 Resp: 205583

Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.8

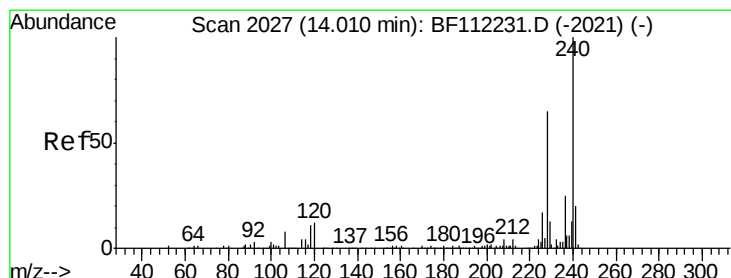
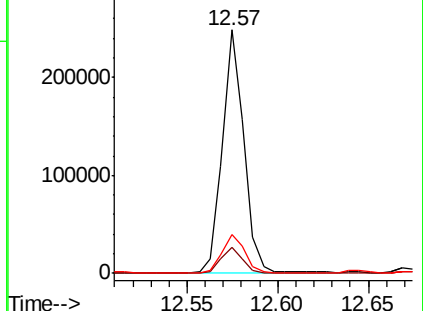
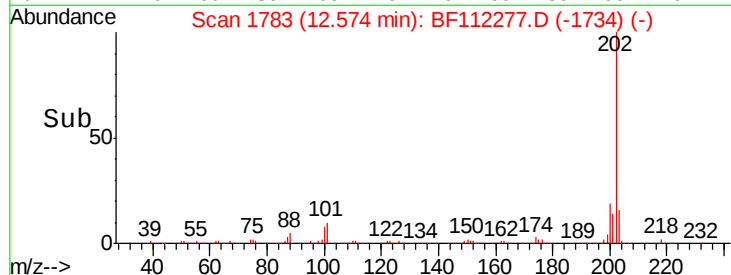
203 16.1 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

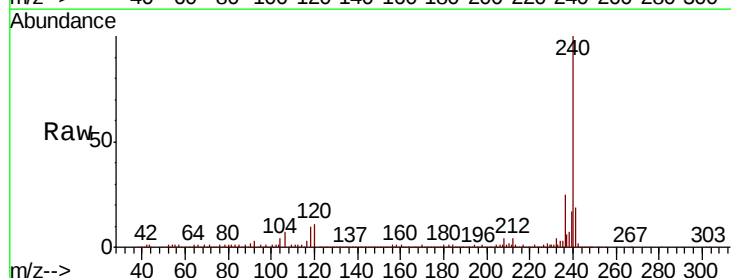
Tgt Ion:240 Resp: 693238

Ion Ratio Lower Upper

240 100

120 11.0 9.0 13.6

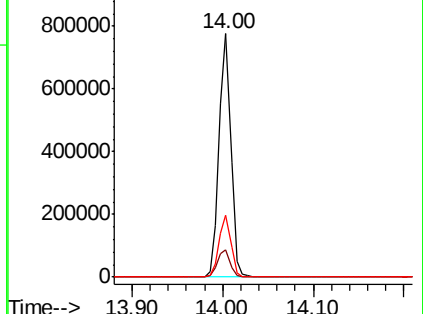
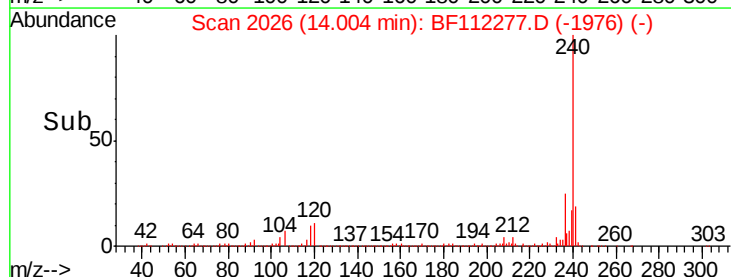
236 25.4 20.7 31.1

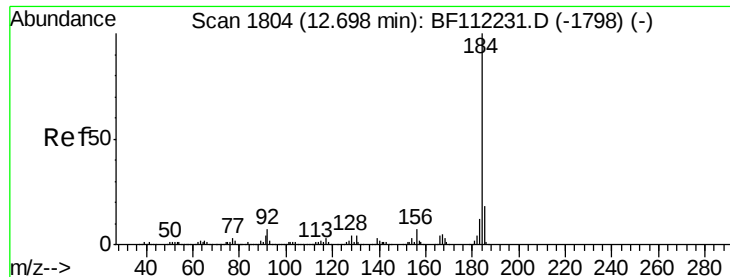


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.014 ng

RT: 12.95 min Scan# 1847

Delta R.T. 0.25 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

Instrument :

BNA\_F

ClientSampleId :

MH-C05

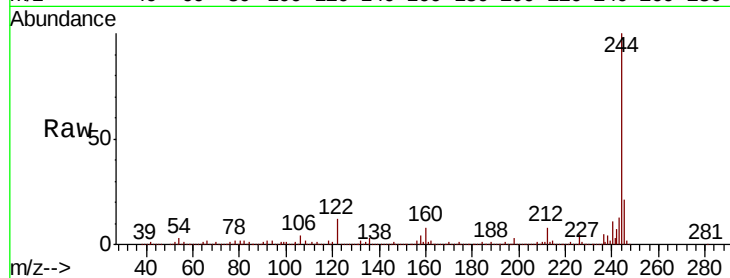
Tot Ion:184 Resp: 38433

Ion Ratio Lower Upper

184 100

185 17.7 13.9 20.9

183 10.4 10.0 15.0

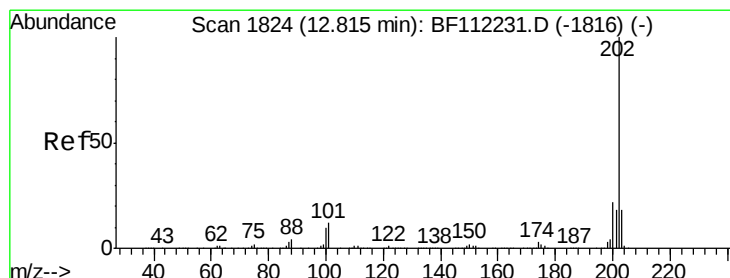
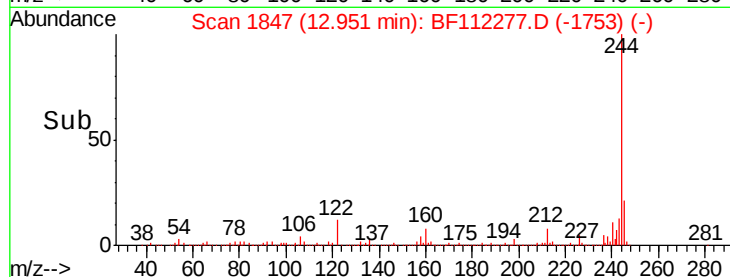
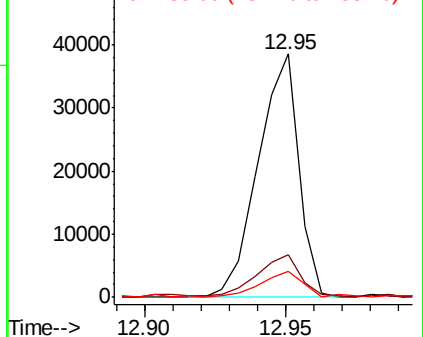


Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 3.898 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

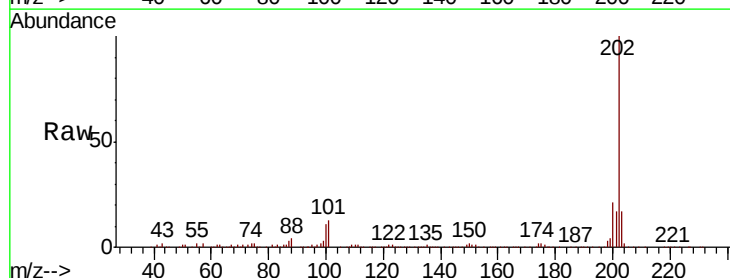
Tgt Ion:202 Resp: 187107

Ion Ratio Lower Upper

202 100

200 20.5 17.7 26.5

203 17.4 14.6 22.0

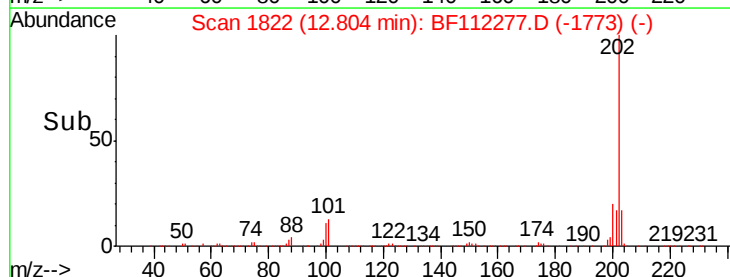
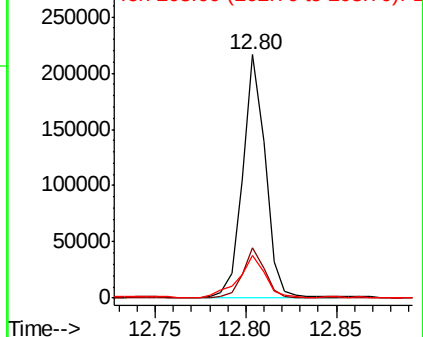


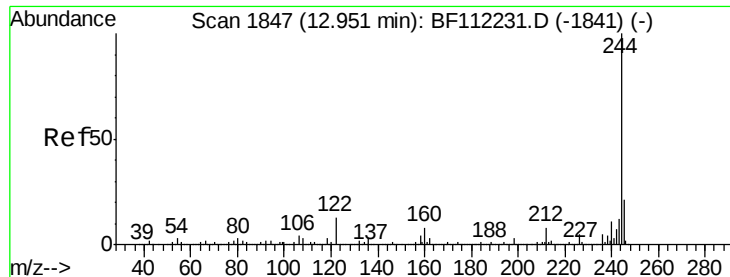
Abundance

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: 73.675 ng

RT: 12.95 min Scan# 1847

Delta R.T. 0.00 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

Instrument :

BNA\_F

ClientSampleId :

MH-C05

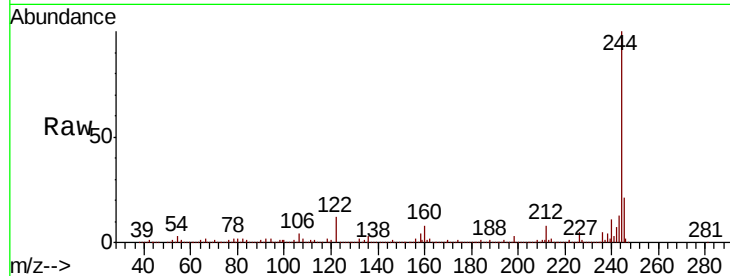
Tot Ion:244 Resp: 2711750

Ion Ratio Lower Upper

244 100

212 7.6 5.9 8.9

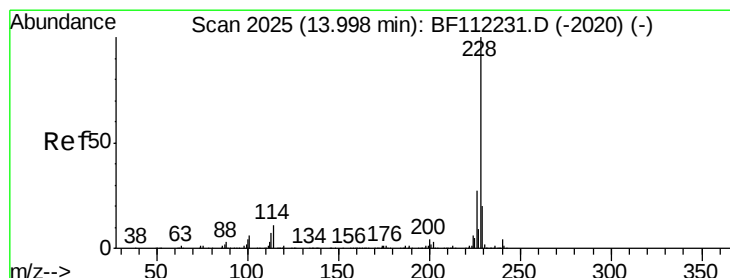
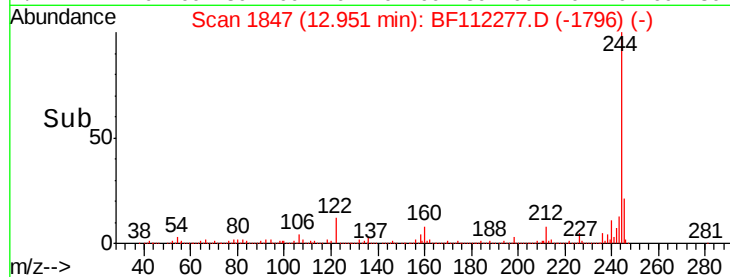
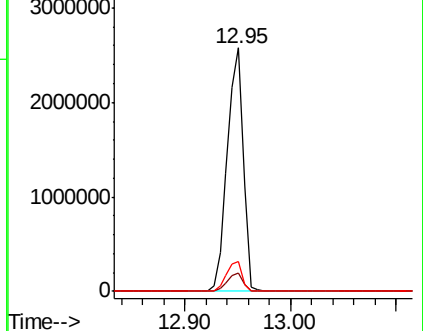
122 12.0 9.8 14.6



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: 2.162 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF112277.D

Acq: 28 Jan 2019 16:25

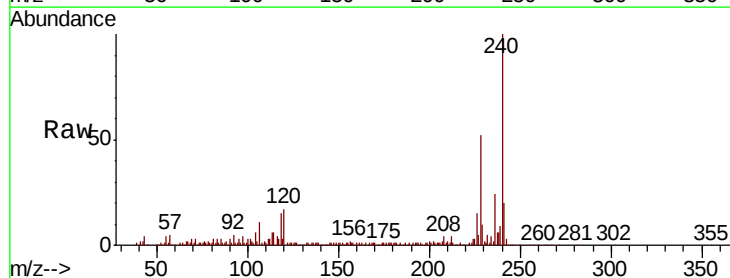
Tgt Ion:228 Resp: 88124

Ion Ratio Lower Upper

228 100

226 28.5 22.6 34.0

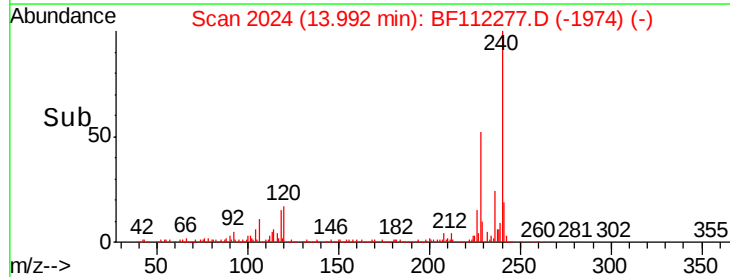
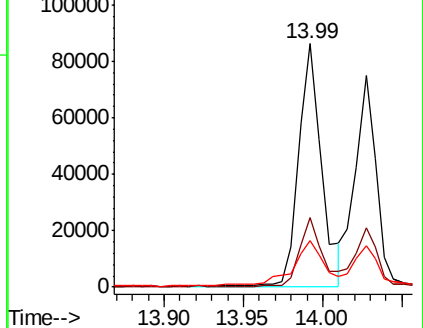
229 19.3 16.5 24.7

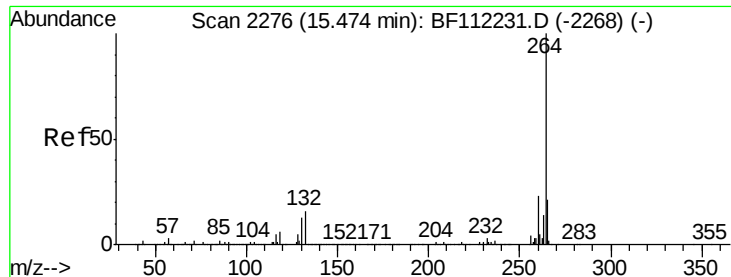


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

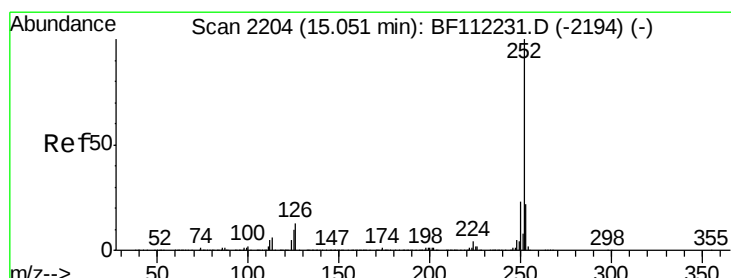
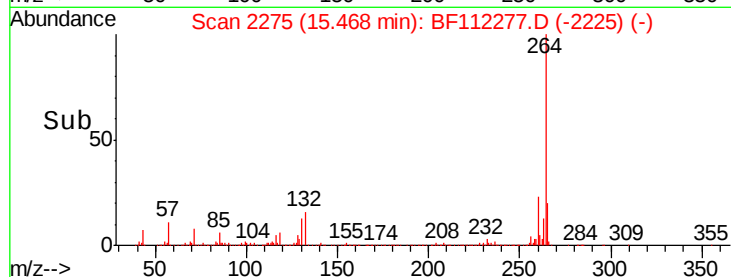
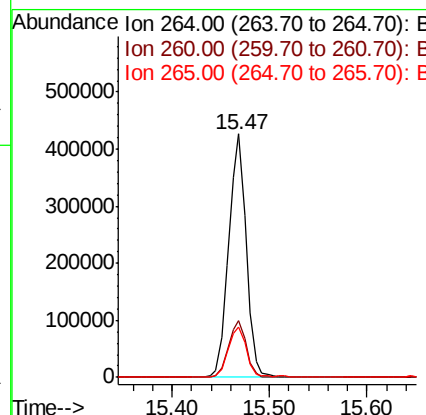
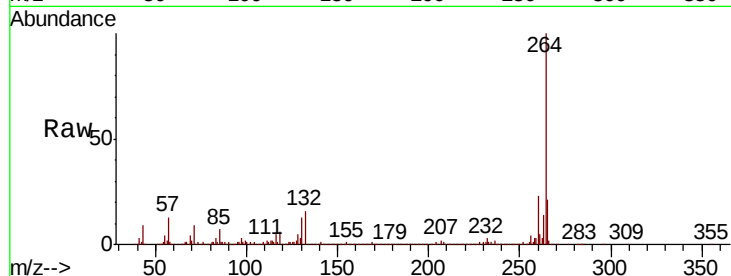




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2275  
Delta R.T. -0.01 min  
Lab File: BF112277.D  
Acq: 28 Jan 2019 16:25

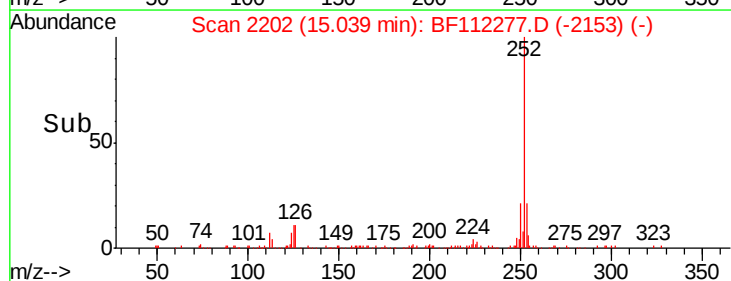
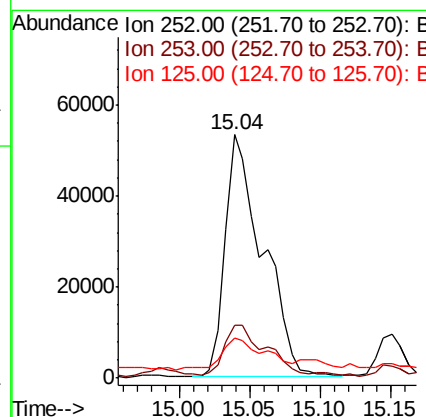
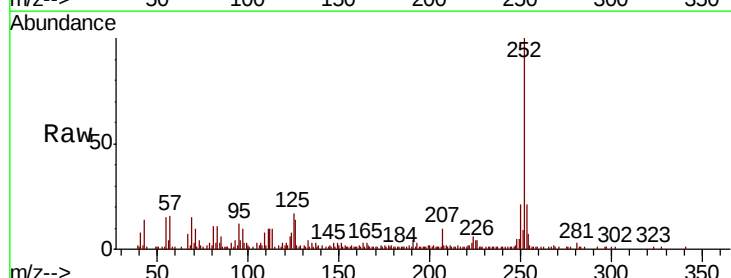
Instrument :  
BNA\_F  
ClientSampled :  
MH-C05

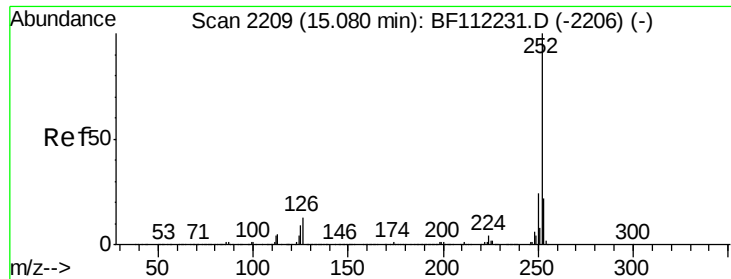
Tot Ion:264 Resp: 532421  
Ion Ratio Lower Upper  
264 100  
260 23.5 18.2 27.2  
265 20.6 17.0 25.4



#88  
Benzo(b)fluoranthene  
Concen: 3.099 ng  
RT: 15.04 min Scan# 2202  
Delta R.T. -0.01 min  
Lab File: BF112277.D  
Acq: 28 Jan 2019 16:25

Tgt Ion:252 Resp: 98688  
Ion Ratio Lower Upper  
252 100  
253 21.5 18.0 27.0  
125 16.7 8.7 13.1#





#89  
 Benzo(k)fluoranthene  
 Concen: 3.236 ng  
 RT: 15.04 min Scan# 2202  
 Delta R.T. -0.04 min  
 Lab File: BF112277.D  
 Acq: 28 Jan 2019 16:25

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MH-C05

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 18.0  | 27.0  |
| 125     | 16.7  | 9.1   | 13.7  |

