

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF020519\  
 Data File : BF112404.D  
 Acq On : 5 Feb 2019 19:05  
 Operator : JU/SJ  
 Sample : K1346-05 5X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-020419-C

Quant Time: Feb 05 22:30:08 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      | 6.83  | 152  | 171564   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.12  | 136  | 630299   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.87  | 164  | 273448   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 433398   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12               | 14.00 | 240  | 332106   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12               | 15.47 | 264  | 255200   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 221393   | 27.41 | ng    | -0.02    |
| 7) Phenol-d6                   | 6.47  | 99   | 280190   | 24.96 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 159334   | 14.57 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 62975    | 19.79 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 346225   | 17.91 | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.93 | 244  | 268500   | 15.23 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 22356    | 2.889 | ng    | # 80     |
| 25) Isophorone                 | 7.39  | 82   | 159332   | 9.285 | ng    | # 63     |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 34130    | 7.173 | ng    | # 34     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 34130    | 5.634 | ng    | # 31     |
| 75) Fluoranthene               | 12.57 | 202  | 53892    | 2.230 | ng    | 98       |
| 78) Pyrene                     | 12.80 | 202  | 59746    | 2.598 | ng    | 96       |
| 88) Benzo(b)fluoranthene       | 15.04 | 252  | 43596    | 2.856 | ng    | # 44     |
| 89) Benzo(k)fluoranthene       | 15.04 | 252  | 43596    | 2.982 | ng    | # 45     |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.83 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF112404.D

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Instrument :

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CL-02-020419-C

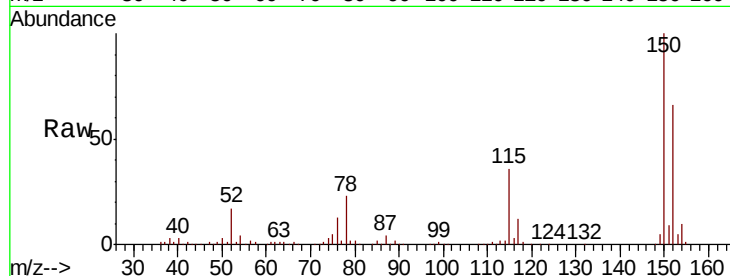
Tgt Ion:152 Resp: 171564

Ion Ratio Lower Upper

152 100

150 151.4 127.4 191.0

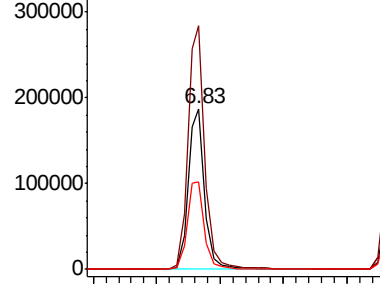
115 54.4 45.5 68.3



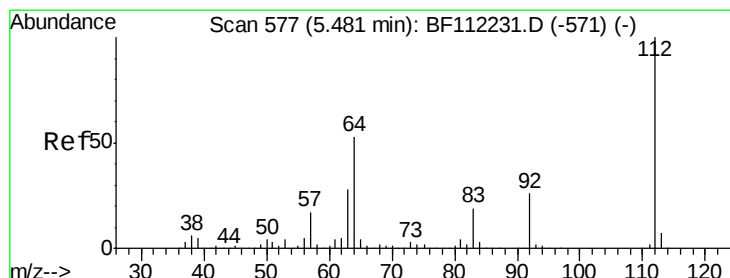
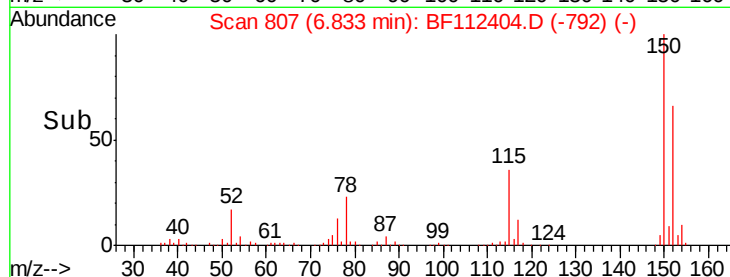
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#5

2-Fluorophenol

Concen: 27.410 ng

RT: 5.46 min Scan# 574

Delta R.T. -0.02 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

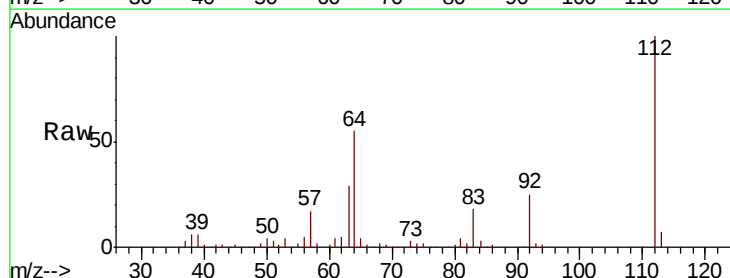
Tgt Ion:112 Resp: 221393

Ion Ratio Lower Upper

112 100

64 54.9 45.7 68.5

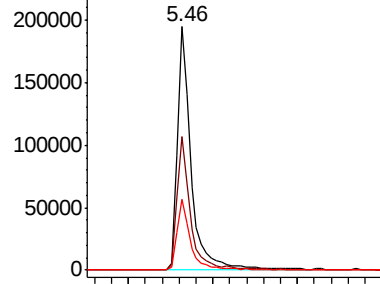
63 29.2 23.6 35.4



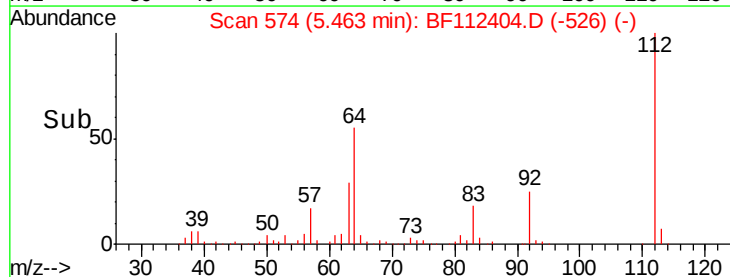
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



Time-->





#7

Phenol-d6

Concen: 24.964 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

Instrument :

BNA\_F

ClientSampleId :

CL-02-020419-C

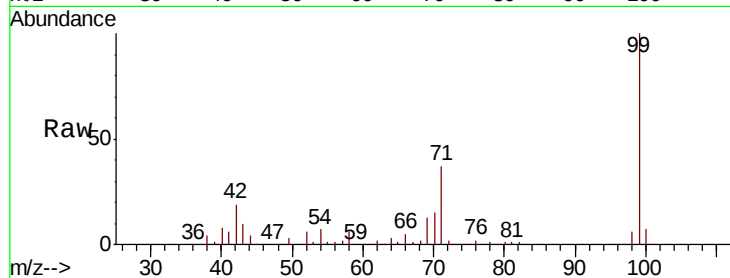
Tgt Ion: 99 Resp: 280190

Ion Ratio Lower Upper

99 100

42 18.7 15.1 22.7

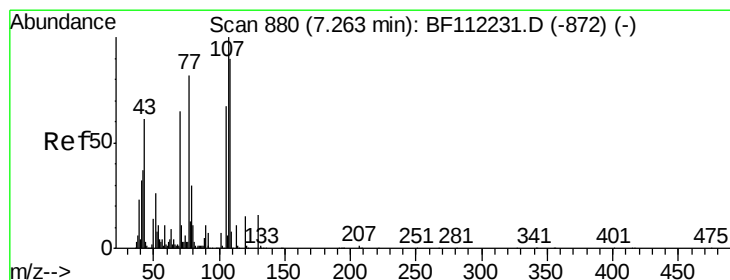
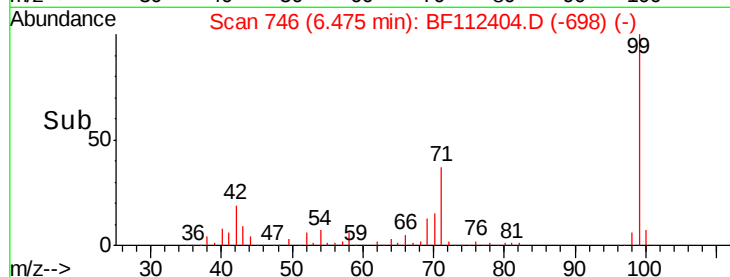
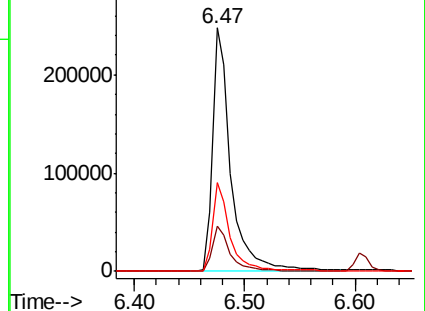
71 36.6 26.9 40.3



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: 2.889 ng

RT: 7.39 min Scan# 902

Delta R.T. 0.13 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

Tgt Ion: 70 Resp: 22356

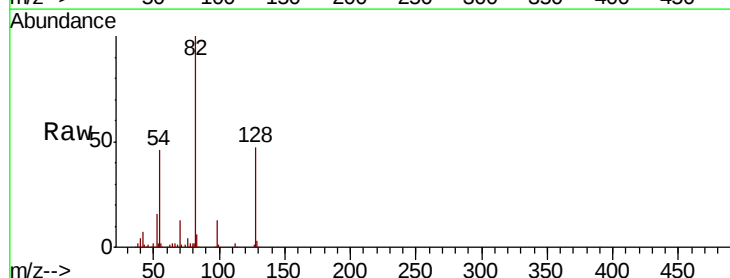
Ion Ratio Lower Upper

70 100

42 52.1 47.6 71.4

101 0.0 7.9 11.9#

130 2.4 18.4 27.6#

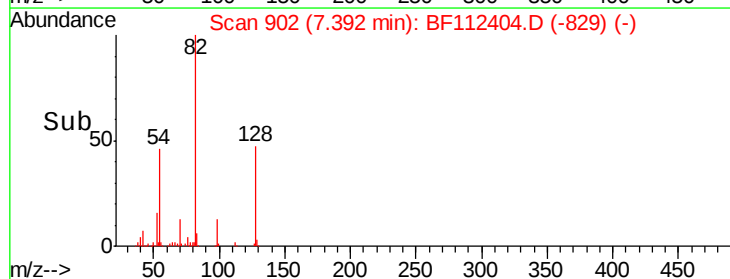
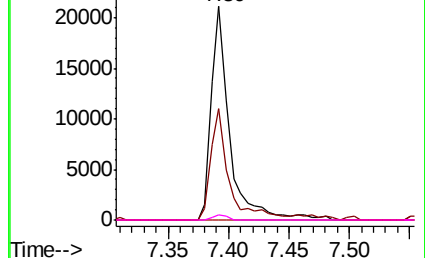


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

Instrument :

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ClientSampleId :

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Tgt Ion:136 Resp: 630299

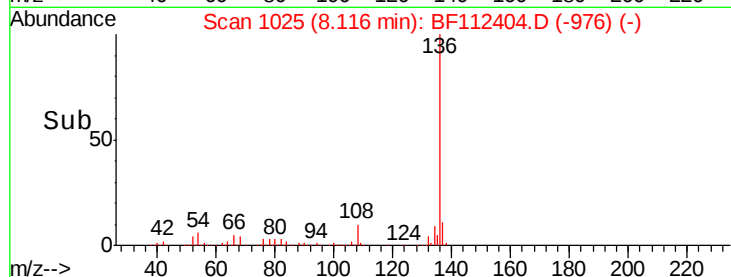
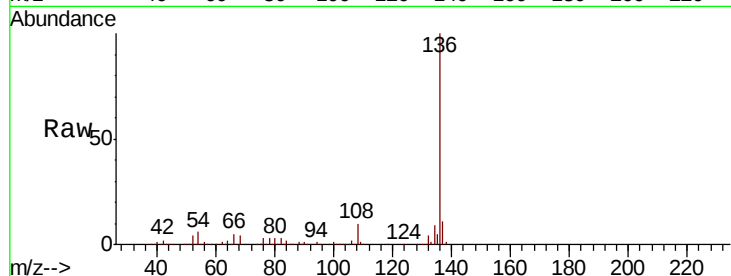
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 6.0 5.9 8.9

68 4.3 5.1 7.7#

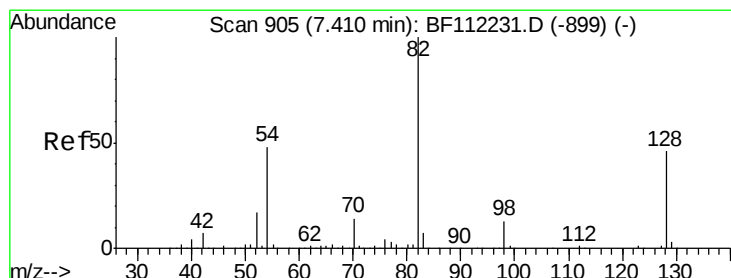
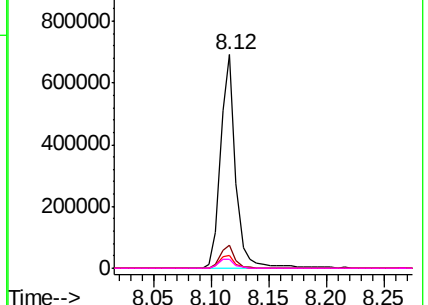


Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.566 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.02 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

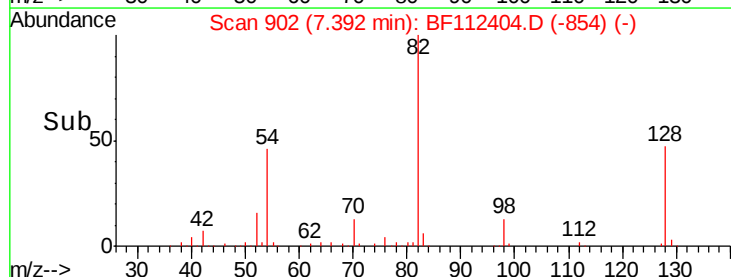
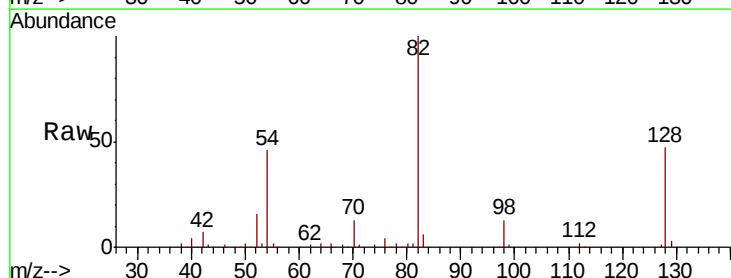
Tgt Ion: 82 Resp: 159334

Ion Ratio Lower Upper

82 100

128 46.9 37.8 56.8

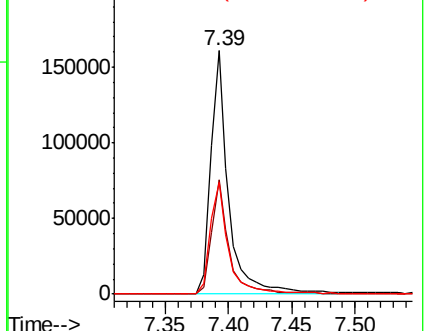
54 45.8 39.7 59.5



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: 9.285 ng

RT: 7.39 min Scan# 902

Delta R.T. -0.28 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

Instrument :

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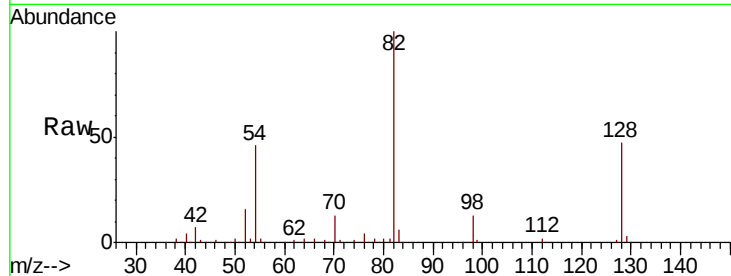
Tgt Ion: 82 Resp: 159332

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

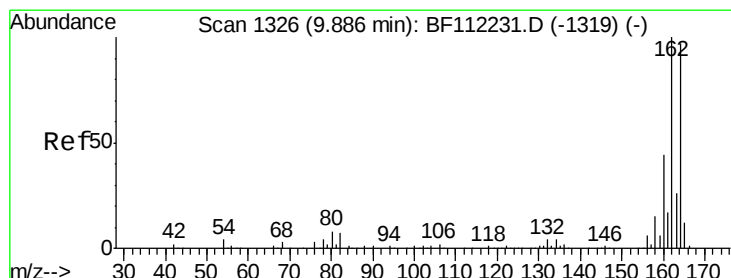
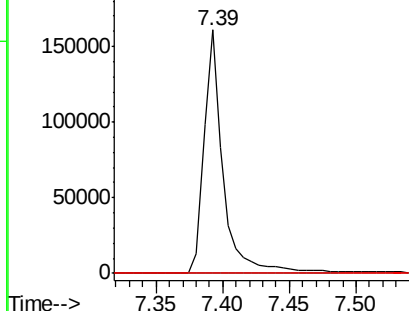
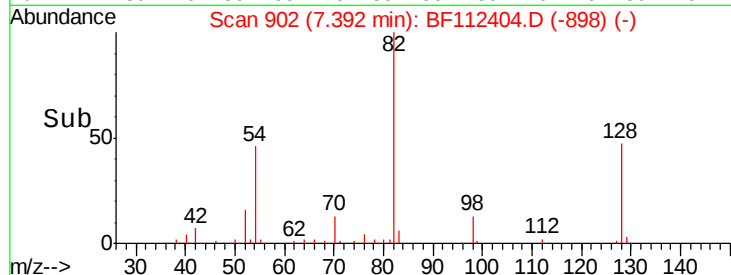
138 0.0 15.4 23.0#



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# 1323

Delta R.T. -0.02 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

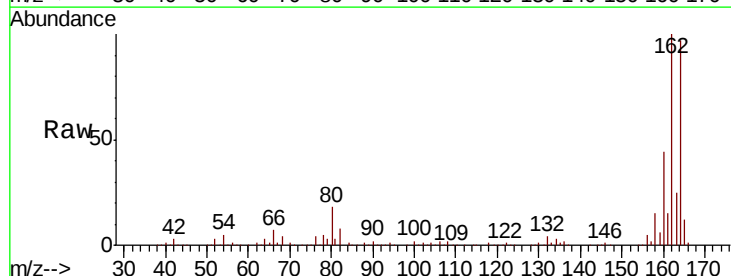
Tgt Ion: 164 Resp: 273448

Ion Ratio Lower Upper

164 100

162 102.7 82.2 123.4

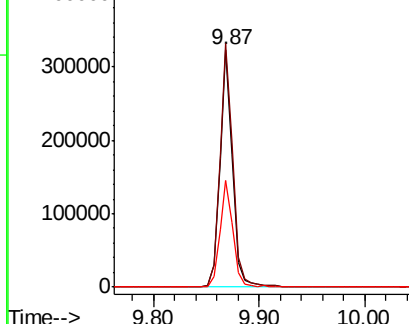
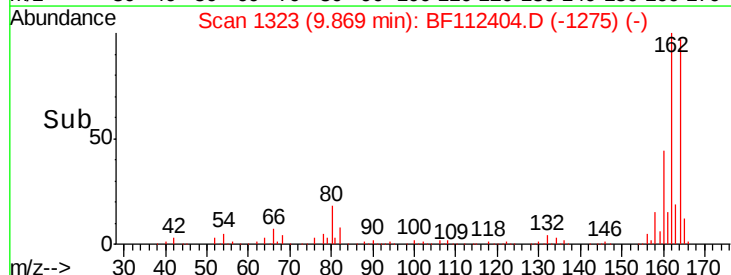
160 45.0 36.2 54.4

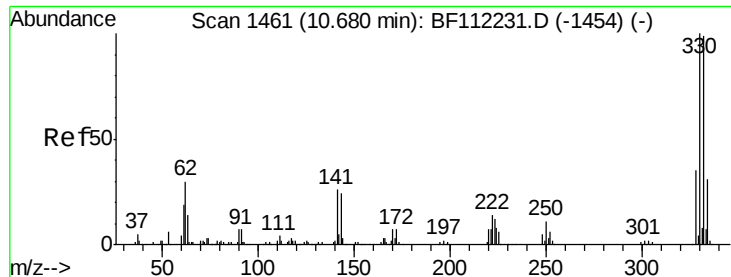


Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#42

2,4,6-Tribromophenol

Concen: 19.786 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.02 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

Instrument :

BNA\_F

ClientSampleId :

CL-02-020419-C

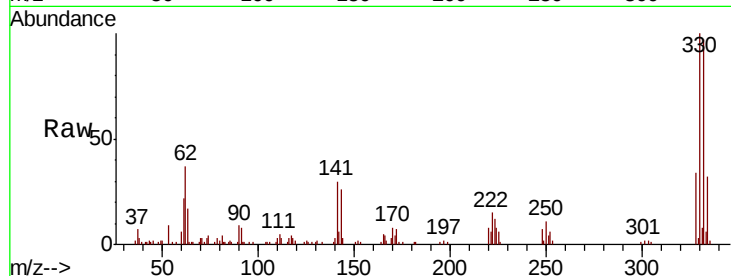
Tgt Ion:330 Resp: 62975

Ion Ratio Lower Upper

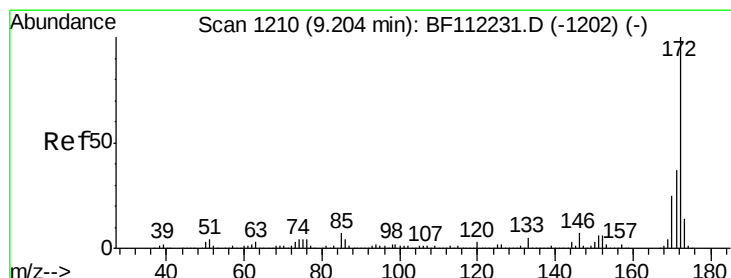
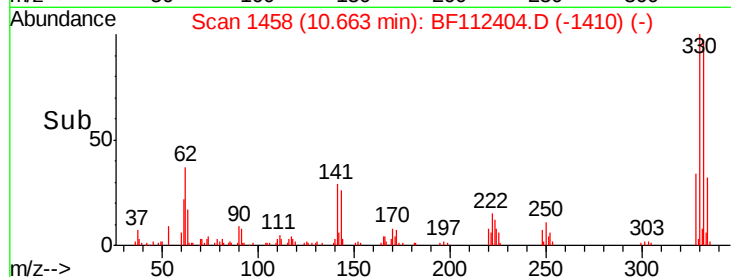
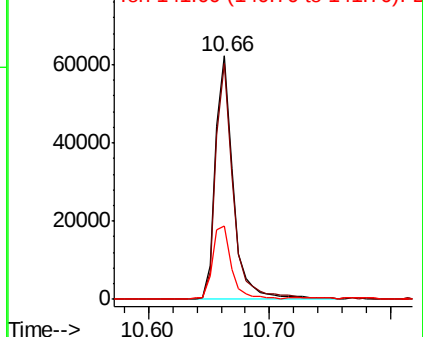
330 100

332 95.9 76.6 114.8

141 32.0 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: 17.908 ng

RT: 9.19 min Scan# 1207

Delta R.T. -0.02 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

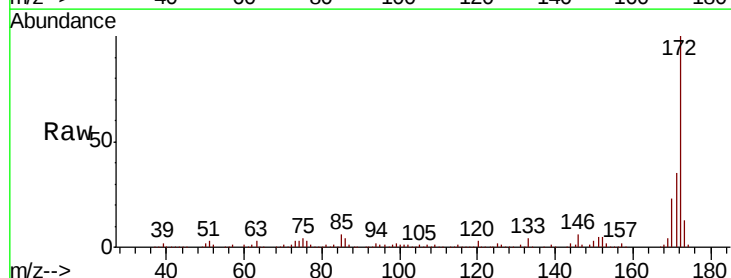
Tgt Ion:172 Resp: 346225

Ion Ratio Lower Upper

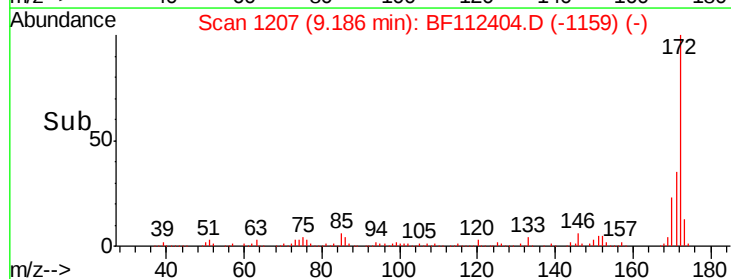
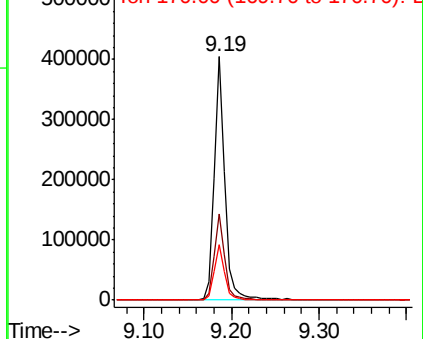
172 100

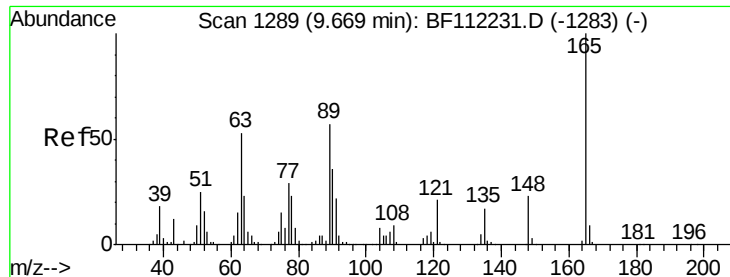
171 35.4 30.5 45.7

170 23.0 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





#51

2,6-Dinitrotoluene

Concen: 7.173 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.20 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

Instrument :

BNA\_F

ClientSampleId :

CL-02-020419-C

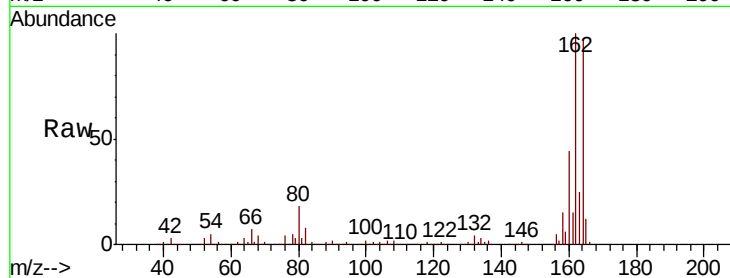
Tgt Ion:165 Resp: 34130

Ion Ratio Lower Upper

165 100

63 1.0 33.8 50.8#

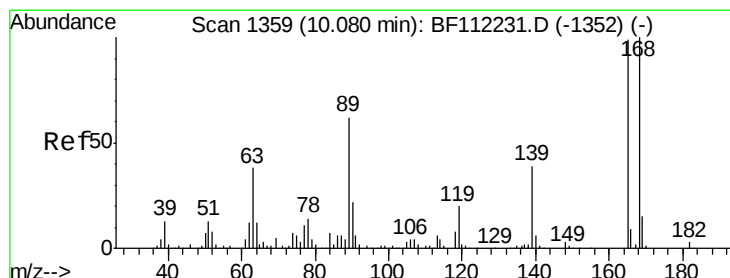
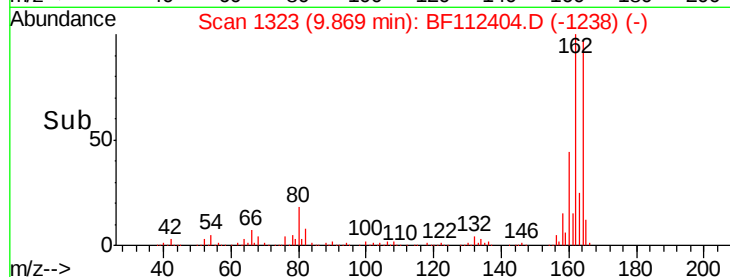
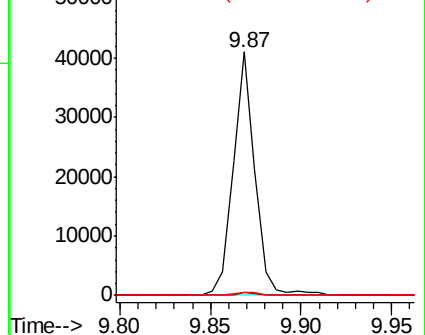
89 1.4 36.9 55.3#



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



#57

2,4-Dinitrotoluene

Concen: 5.634 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.21 min

Lab File: BF112404.D

Acq: 5 Feb 2019 19:05

Tgt Ion:165 Resp: 34130

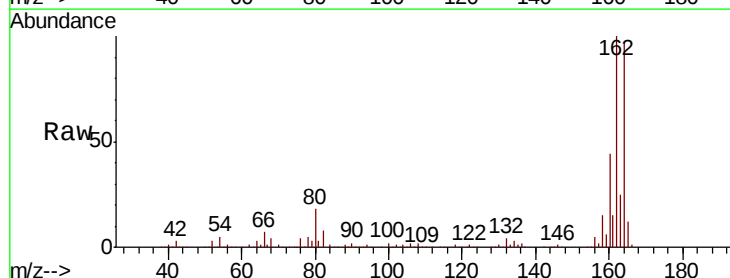
Ion Ratio Lower Upper

165 100

63 1.0 27.9 41.9#

89 1.4 47.9 71.9#

182 0.0 2.2 3.4#

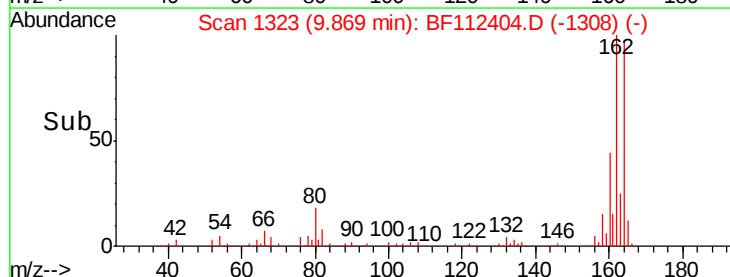
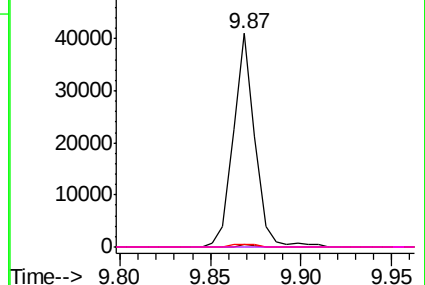


Abundance Ion 165.00 (164.70 to 165.70): E

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

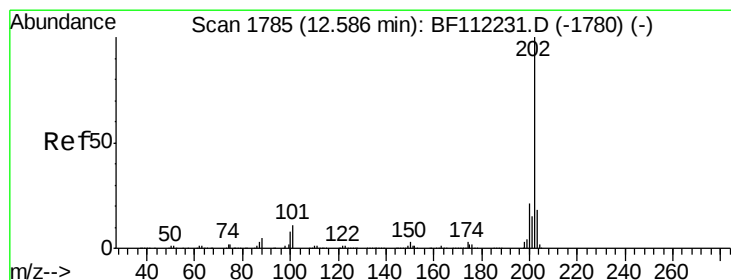
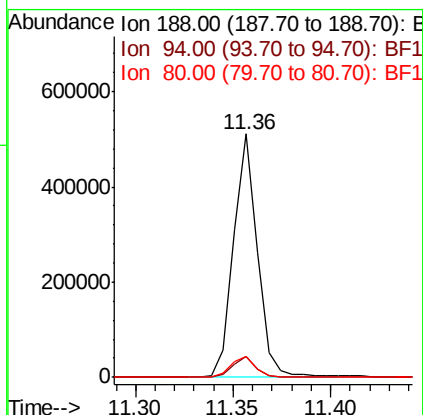
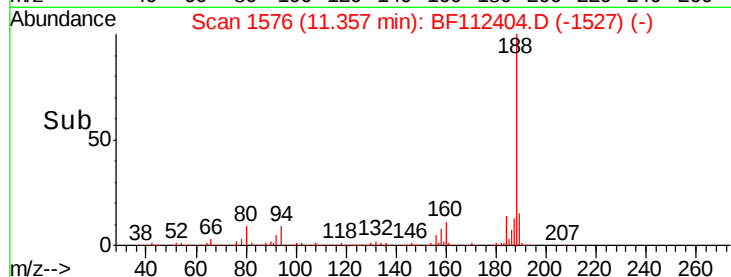
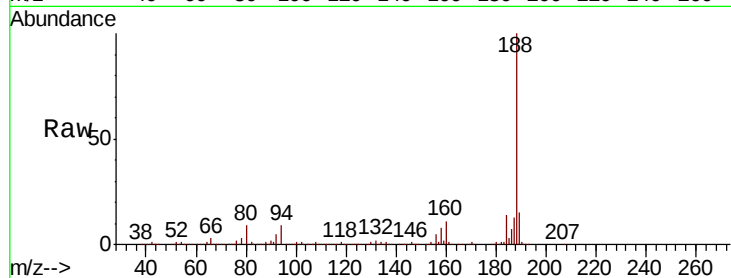




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1576  
Delta R.T. -0.01 min  
Lab File: BF112404.D  
Acq: 5 Feb 2019 19:05

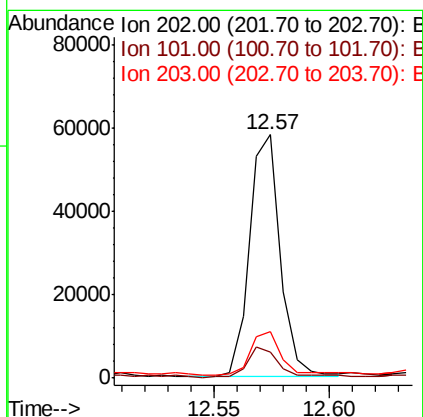
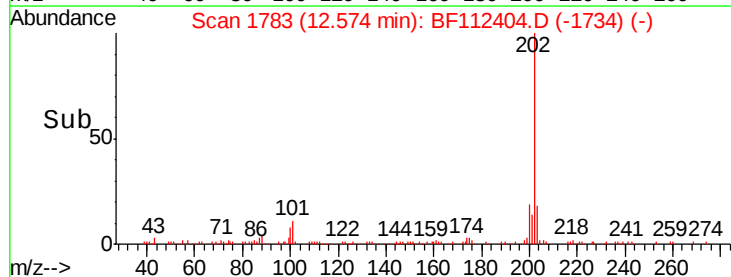
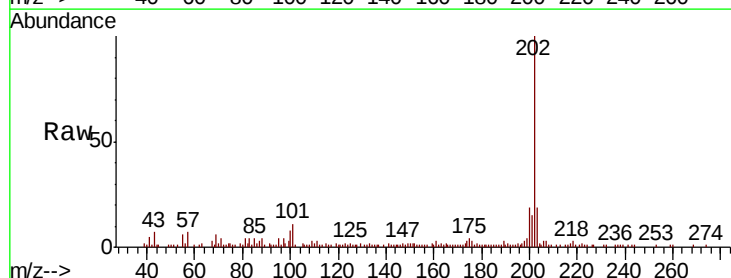
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-020419-C

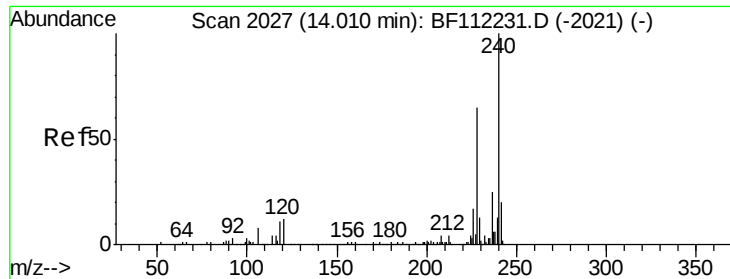
Tgt Ion:188 Resp: 433398  
Ion Ratio Lower Upper  
188 100  
94 8.6 8.2 12.2  
80 8.8 8.9 13.3#



#75  
Fluoranthene  
Concen: 2.230 ng  
RT: 12.57 min Scan# 1783  
Delta R.T. -0.01 min  
Lab File: BF112404.D  
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Tgt Ion:202 Resp: 53892  
Ion Ratio Lower Upper  
202 100  
101 10.9 0.0 31.8  
203 18.9 0.0 38.4

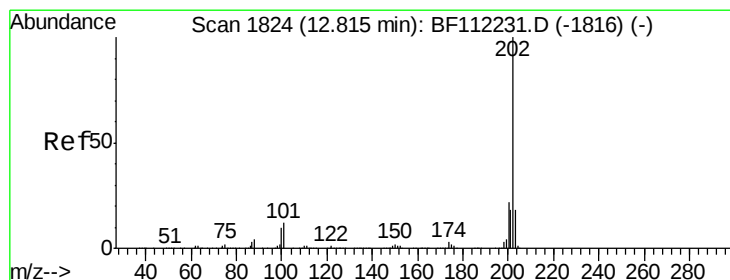
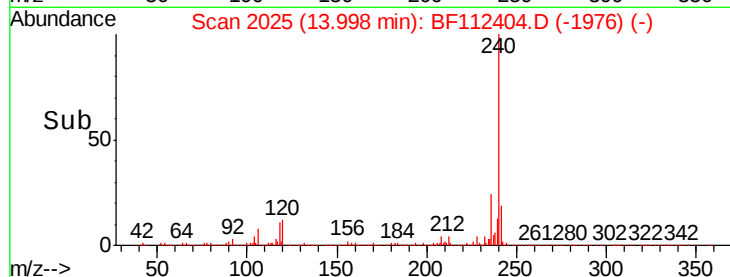
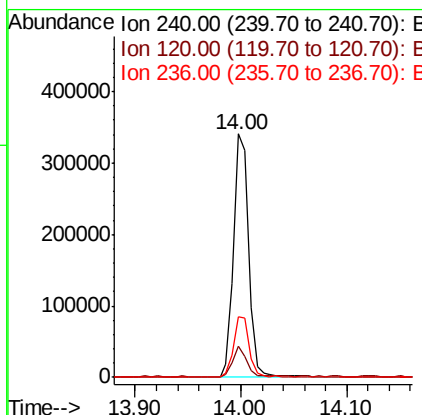
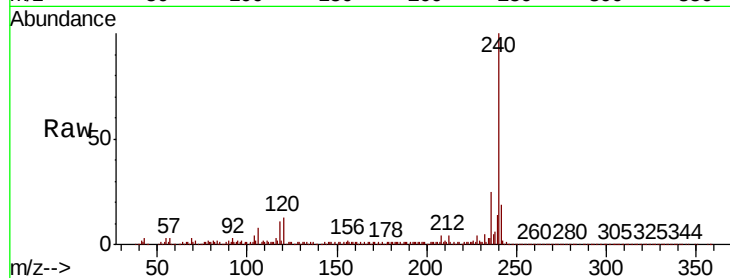




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.01 min  
Lab File: BF112404.D  
Acq: 5 Feb 2019 19:05

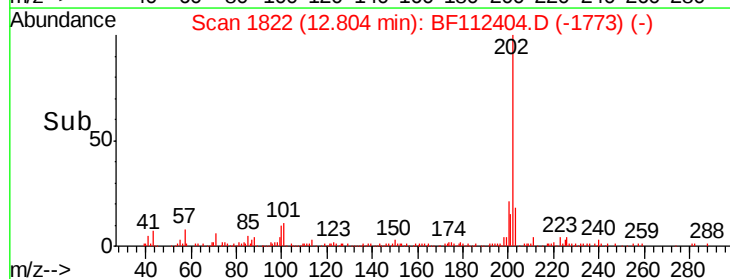
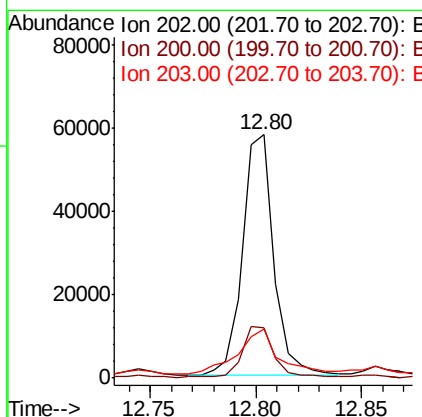
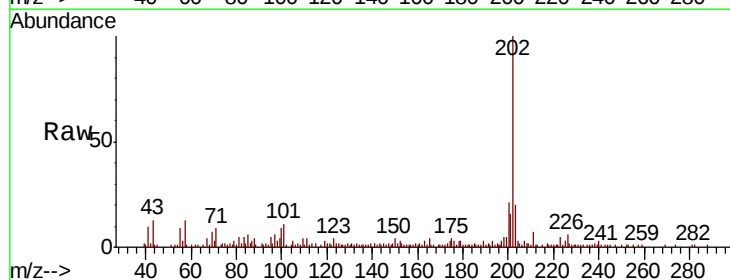
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-020419-C

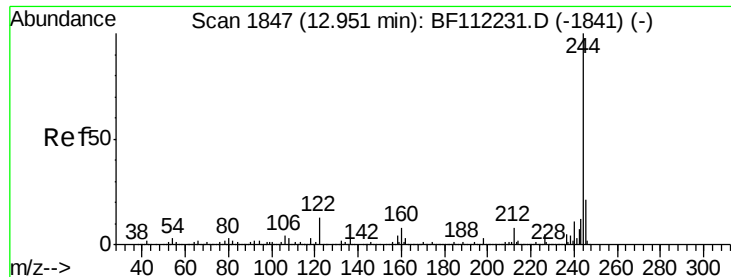
Tgt Ion:240 Resp: 332106  
Ion Ratio Lower Upper  
240 100  
120 12.7 9.0 13.6  
236 24.6 20.7 31.1



#78  
Pyrene  
Concen: 2.598 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. -0.01 min  
Lab File: BF112404.D  
Acq: 5 Feb 2019 19:05

Tgt Ion:202 Resp: 59746  
Ion Ratio Lower Upper  
202 100  
200 20.6 17.7 26.5  
203 20.1 14.6 22.0

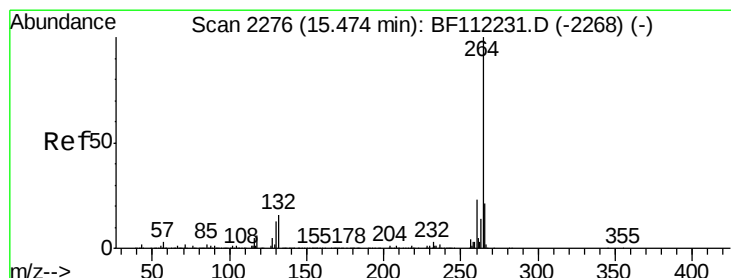
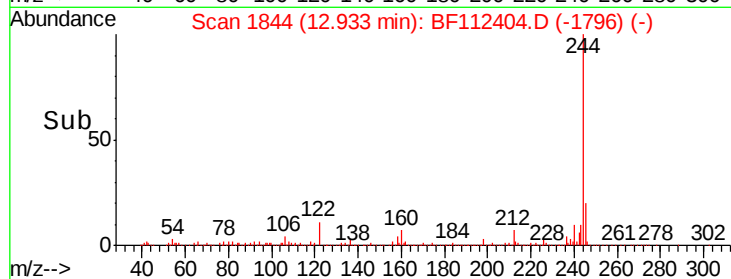
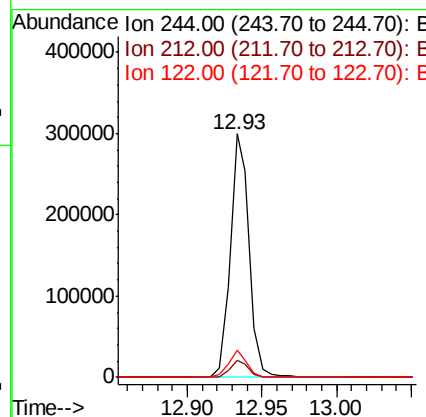
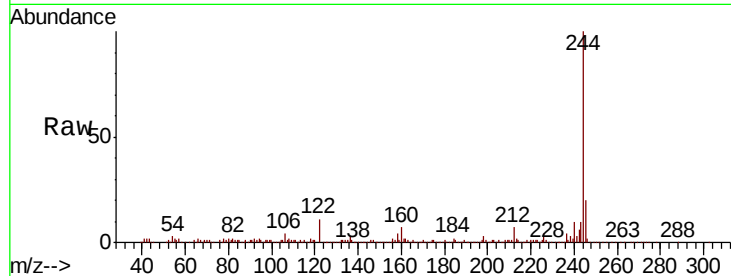




#79  
 Terphenyl-d14  
 Concen: 15.227 ng  
 RT: 12.93 min Scan# 1844  
 Delta R.T. -0.02 min  
 Lab File: BF112404.D  
 Acq: 5 Feb 2019 19:05

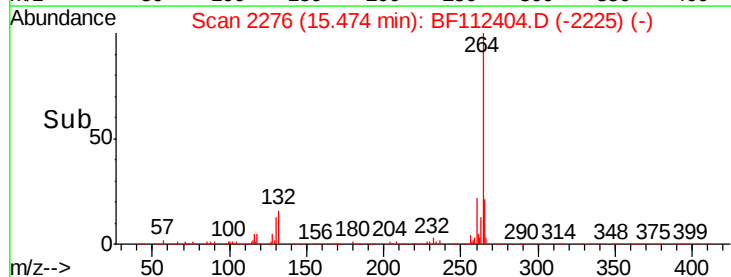
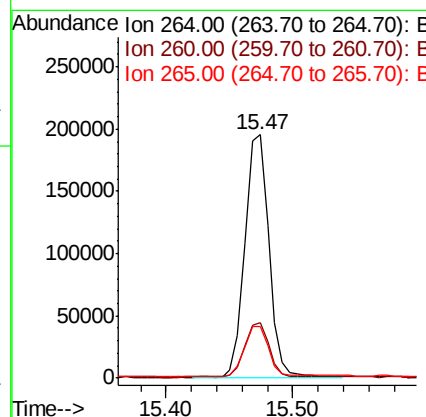
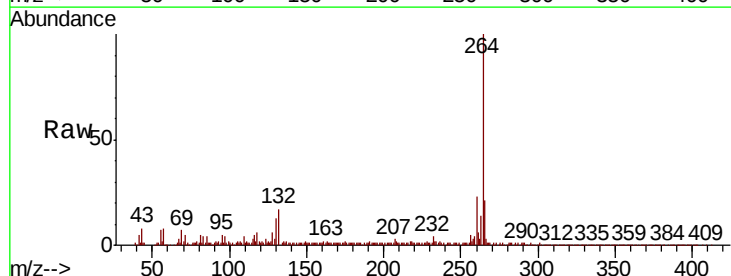
Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-020419-C

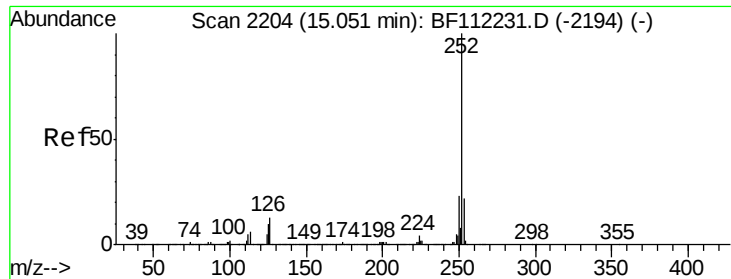
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.9   | 8.9   |
| 122     | 11.3  | 9.8   | 14.6  |



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.47 min Scan# 2276  
 Delta R.T. -0.00 min  
 Lab File: BF112404.D  
 Acq: 5 Feb 2019 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 18.2  | 27.2  |
| 265     | 21.4  | 17.0  | 25.4  |

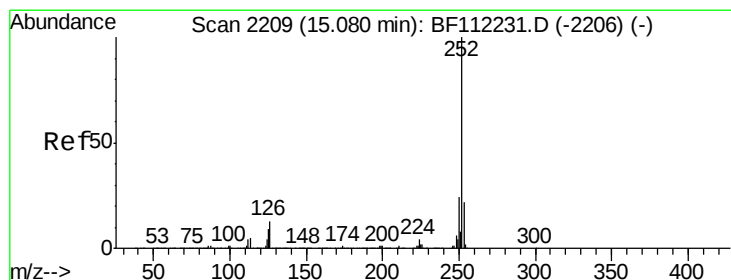
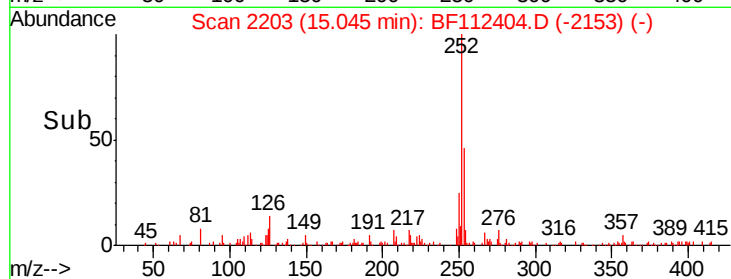
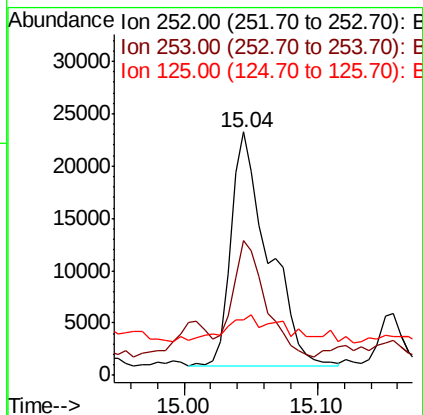
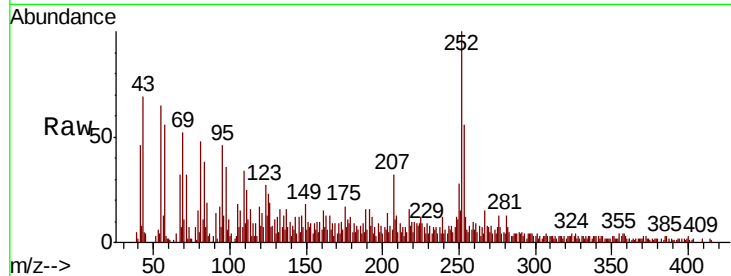




#88  
Benzo(b)fluoranthene  
Concen: 2.856 ng  
RT: 15.04 min Scan# 2203  
Delta R.T. -0.01 min  
Lab File: BF112404.D  
Acq: 5 Feb 2019 19:05

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-020419-C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 55.5  | 18.0  | 27.0# |
| 125     | 22.6  | 8.7   | 13.1# |



#89  
Benzo(k)fluoranthene  
Concen: 2.982 ng  
RT: 15.04 min Scan# 2203  
Delta R.T. -0.04 min  
Lab File: BF112404.D  
Acq: 5 Feb 2019 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 55.5  | 18.0  | 27.0# |
| 125     | 22.6  | 9.1   | 13.7# |

