

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN062420\  
 Data File : BN011046.D  
 Acq On : 24 Jun 2020 13:50  
 Operator : CG/JU  
 Sample : L3033-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SS043MW011-200615

Quant Time: Jun 24 14:53:14 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 23 18:53:50 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 3128     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.27 | 136  | 10623    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.14 | 164  | 6296     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.90 | 188  | 12616    | 0.40 | ng    | 0.00     |
| 29) Chrysene-d12          | 21.11 | 240  | 12031    | 0.40 | ng    | 0.00     |
| 36) Perylene-d12          | 23.25 | 264  | 13342    | 0.40 | ng    | -0.01    |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.19  | 112 | 1043  | 0.12 | ng | 0.00 |
| 5) Phenol-d6                | 6.73  | 99  | 549   | 0.05 | ng | 0.02 |
| 8) Nitrobenzene-d5          | 8.66  | 82  | 2678  | 0.28 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.86 | 152 | 3962  | 0.21 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.64 | 330 | 744   | 0.27 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.76 | 172 | 6285  | 0.21 | ng | 0.00 |
| 27) Fluoranthene-d10        | 18.94 | 212 | 9358  | 0.23 | ng | 0.00 |
| 31) Terphenyl-d14           | 19.55 | 244 | 10229 | 0.32 | ng | 0.00 |

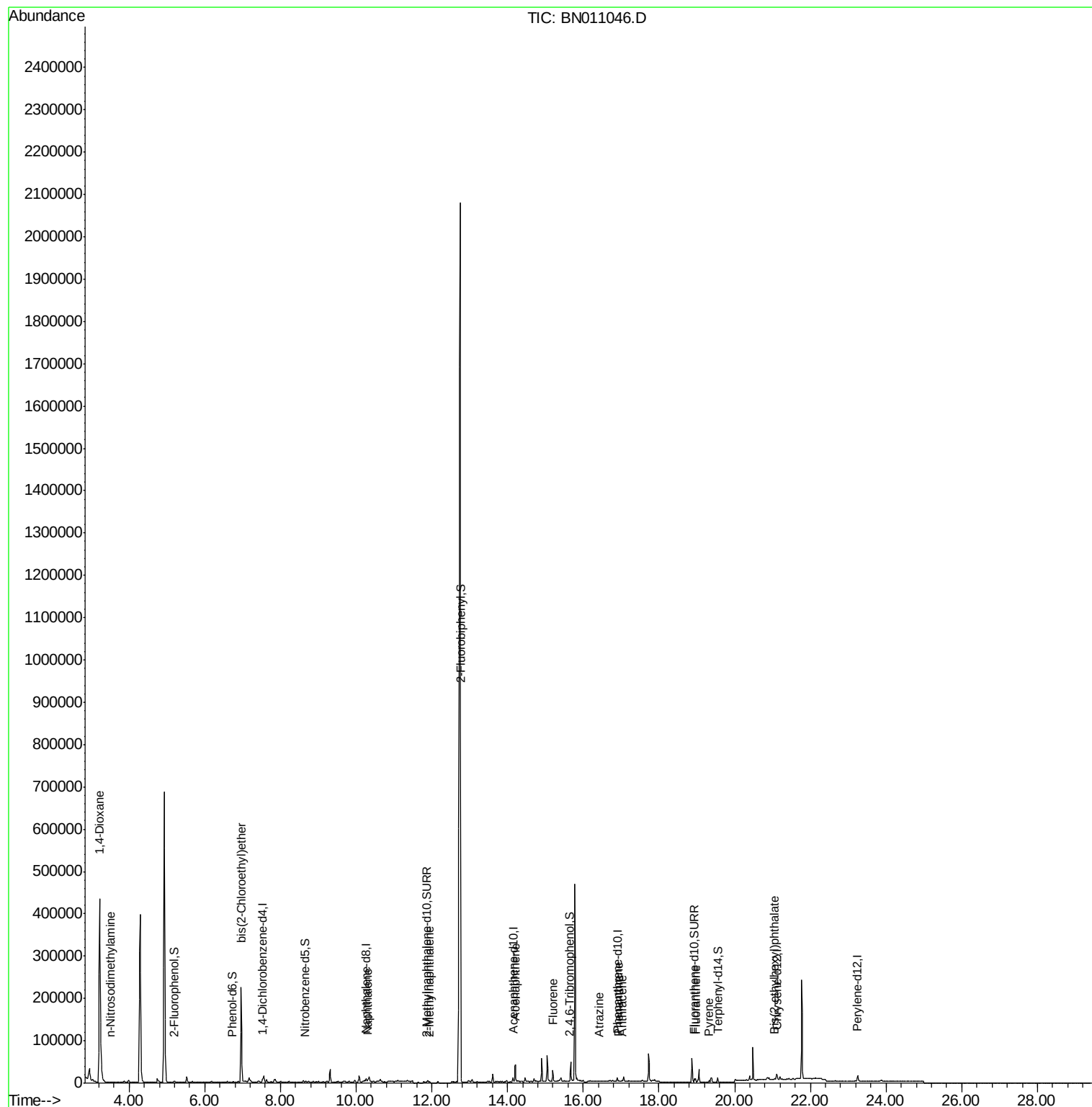
|                                |       |     |        |         |    |      |
|--------------------------------|-------|-----|--------|---------|----|------|
| Target Compounds               |       |     |        | Qvalue  |    |      |
| 2) 1,4-Dioxane                 | 3.22  | 88  | 496045 | 117.961 | ng | 95   |
| 3) n-Nitrosodimethylamine      | 3.51  | 42  | 130    | 0.055   | ng | # 1  |
| 6) bis(2-Chloroethyl)ether     | 6.97  | 93  | 191356 | 21.218  | ng | 95   |
| 9) Naphthalene                 | 10.32 | 128 | 4610   | 0.143   | ng | # 91 |
| 12) 2-Methylnaphthalene        | 11.94 | 142 | 2147   | 0.099   | ng | # 85 |
| 17) Acenaphthene               | 14.21 | 154 | 22672  | 1.064   | ng | 98   |
| 18) Fluorene                   | 15.20 | 166 | 15612  | 0.574   | ng | 99   |
| 23) Atrazine                   | 16.42 | 200 | 161    | 0.025   | ng | # 5  |
| 25) Phenanthrene               | 16.93 | 178 | 1811   | 0.043   | ng | # 66 |
| 26) Anthracene                 | 17.02 | 178 | 2108   | 0.060   | ng | # 86 |
| 28) Fluoranthene               | 18.97 | 202 | 6856   | 0.141   | ng | # 95 |
| 30) Pyrene                     | 19.33 | 202 | 4482   | 0.097   | ng | # 91 |
| 34) Bis(2-ethylhexyl)phthalate | 21.05 | 149 | 2092   | 0.125   | ng | # 89 |

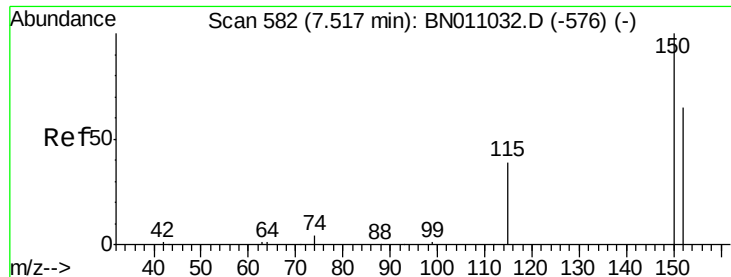
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN062420\  
Data File : BN011046.D  
Acq On : 24 Jun 2020 13:50  
Operator : CG/JU  
Sample : L3033-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SS043MW011-200615

Quant Time: Jun 24 14:53:14 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN062320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 23 18:53:50 2020  
Response via : Initial Calibration



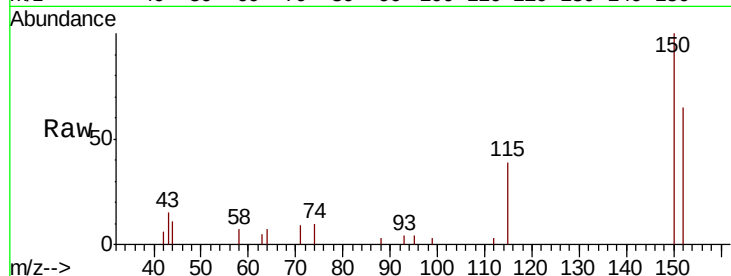


#1

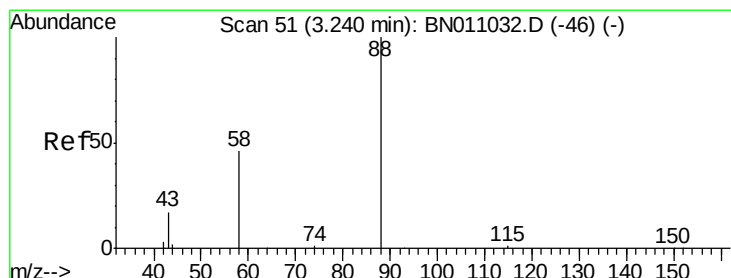
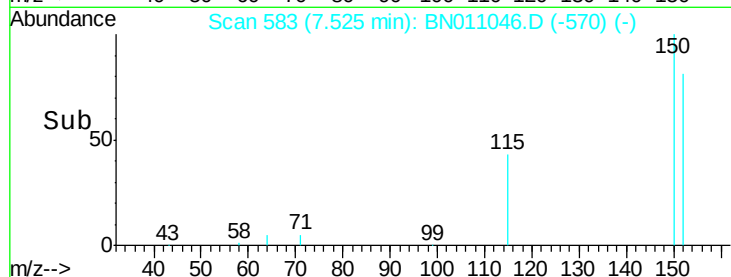
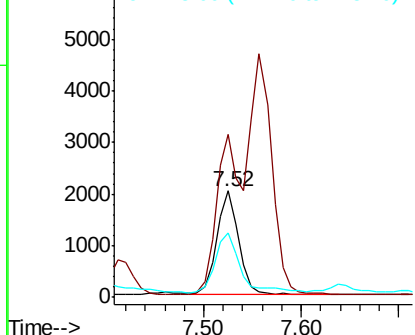
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.52 min Scan# 583  
Delta R.T. 0.01 min  
Lab File: BN011046.D  
Acq: 24 Jun 2020 13:50

Instrument :  
BNA\_N  
ClientSampleId :  
SS043MW011-200615

Tot Ion:152 Resp: 3128  
Ion Ratio Lower Upper  
152 100  
150 153.3 121.8 182.8  
115 60.3 50.2 75.2



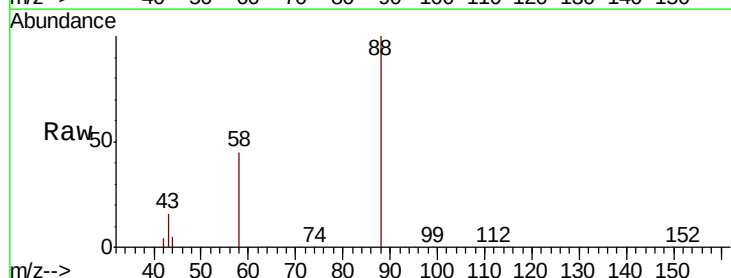
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



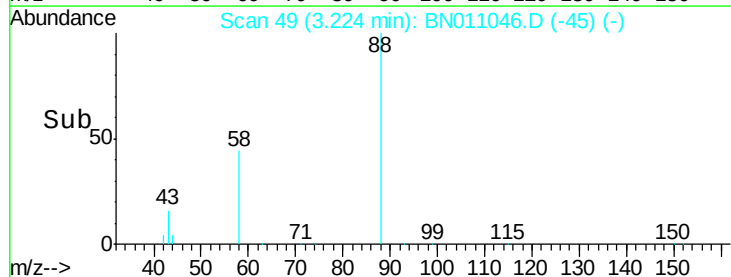
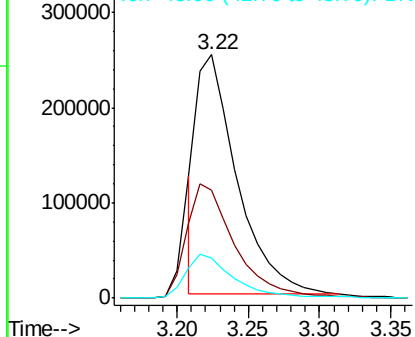
#2

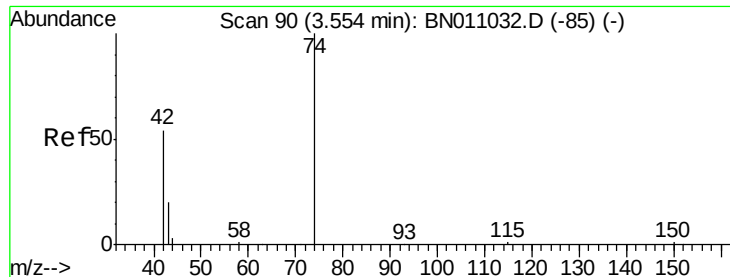
1,4-Dioxane  
Concen: 117.961 ng  
RT: 3.22 min Scan# 49  
Delta R.T. -0.02 min  
Lab File: BN011046.D  
Acq: 24 Jun 2020 13:50

Tgt Ion: 88 Resp: 496045  
Ion Ratio Lower Upper  
88 100  
58 44.3 38.4 57.6  
43 16.0 14.2 21.4



Abundance Ion 88.00 (87.70 to 88.70): BNC  
Ion 58.00 (57.70 to 58.70): BNC  
Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.055 ng

RT: 3.51 min Scan# 84

Delta R.T. -0.05 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

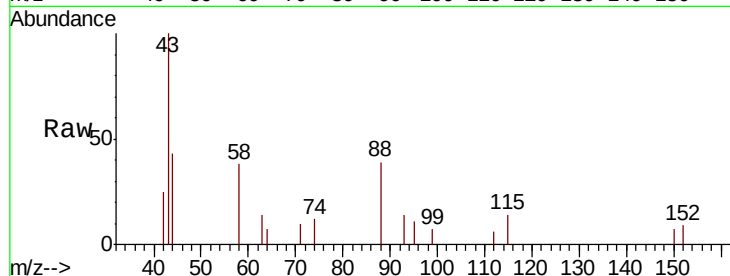
Tot Ion: 42 Resp: 130

Ion Ratio Lower Upper

42 100

74 13.8 154.8 232.2#

44 0.0 4.8 7.2#

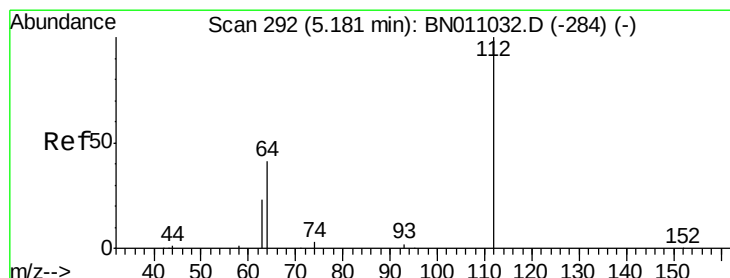
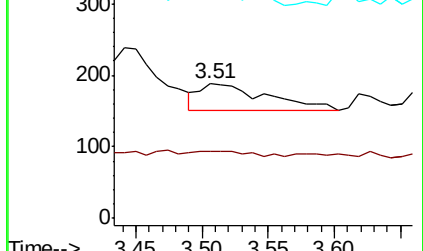
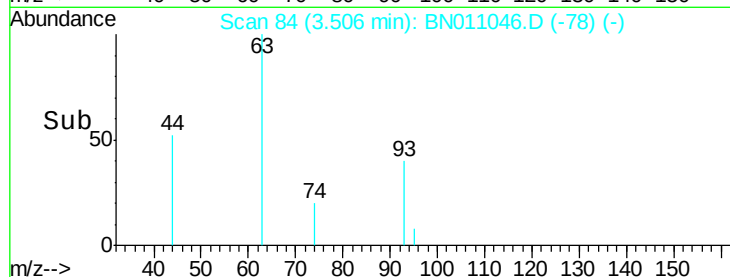


Abundance Ion 42.00 (41.70 to 42.70): BN011032.D (-85) (-)

Ion 74.00 (73.70 to 74.70): BN011032.D (-85) (-)

Ion 44.00 (43.70 to 44.70): BN011032.D (-85) (-)

Time-->



#4

2-Fluorophenol

Concen: 0.118 ng

RT: 5.19 min Scan# 293

Delta R.T. 0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

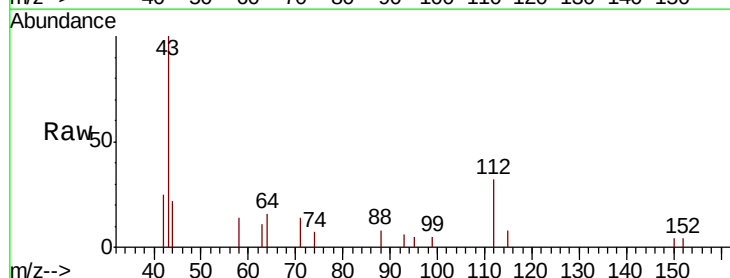
Tgt Ion: 112 Resp: 1043

Ion Ratio Lower Upper

112 100

64 33.5 37.3 55.9#

63 17.8 20.4 30.6#

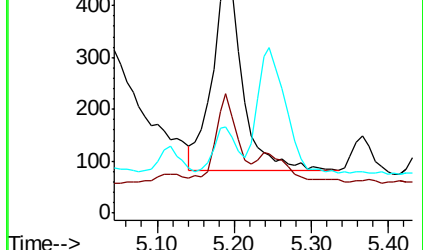
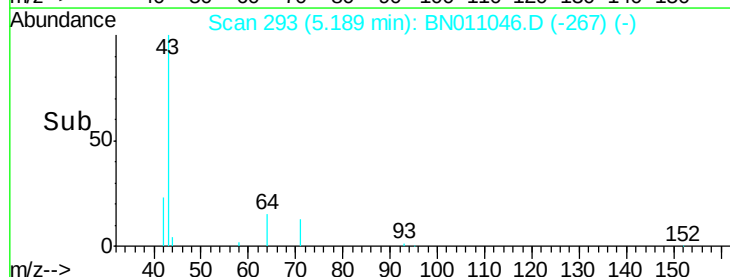


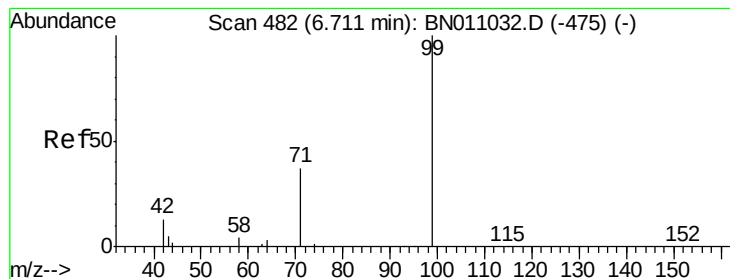
Abundance Ion 112.00 (111.70 to 112.70): BN011032.D (-284) (-)

Ion 64.00 (63.70 to 64.70): BN011032.D (-284) (-)

Ion 63.00 (62.70 to 63.70): BN011032.D (-284) (-)

Time-->





#5

Phenol-d6

Concen: 0.053 ng

RT: 6.73 min Scan# 484

Delta R.T. 0.02 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

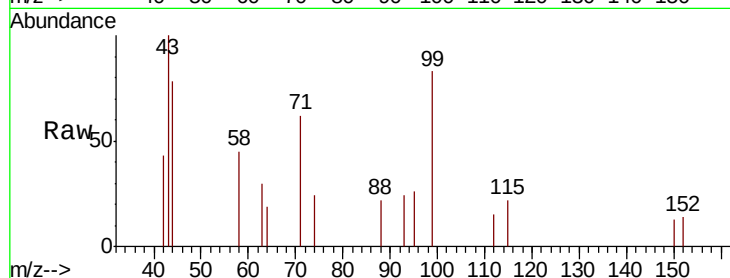
Tot Ion: 99 Resp: 549

Ion Ratio Lower Upper

99 100

42 0.0 10.6 16.0#

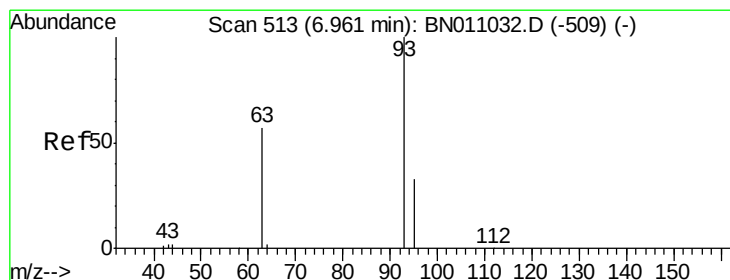
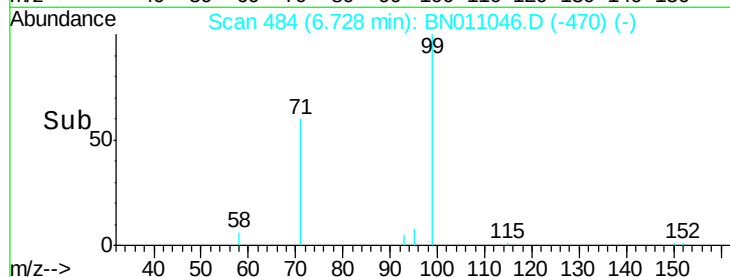
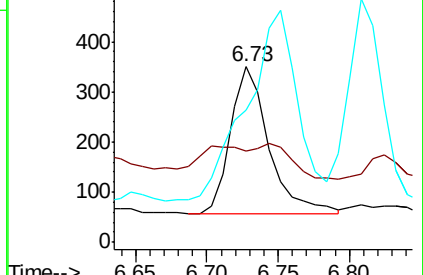
71 0.0 28.7 43.1#



Abundance Ion 99.00 (98.70 to 99.70): BN011032.D (-475) (-)

Ion 42.00 (41.70 to 42.70): BN011032.D (-475) (-)

Ion 71.00 (70.70 to 71.70): BN011032.D (-475) (-)



#6

bis(2-Chloroethyl)ether

Concen: 21.218 ng

RT: 6.97 min Scan# 514

Delta R.T. 0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

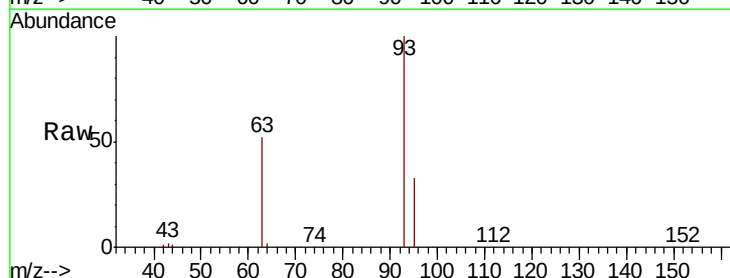
Tgt Ion: 93 Resp: 191356

Ion Ratio Lower Upper

93 100

63 58.6 43.7 65.5

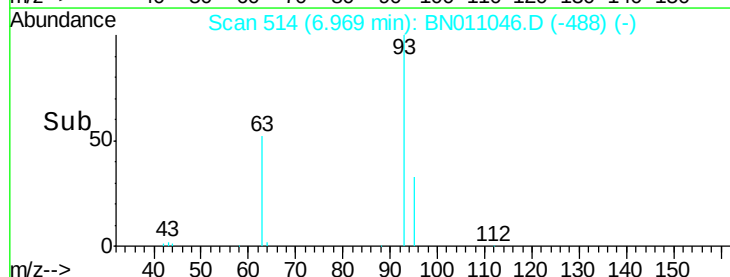
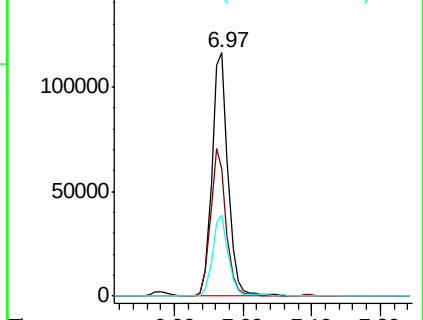
95 33.1 25.3 37.9

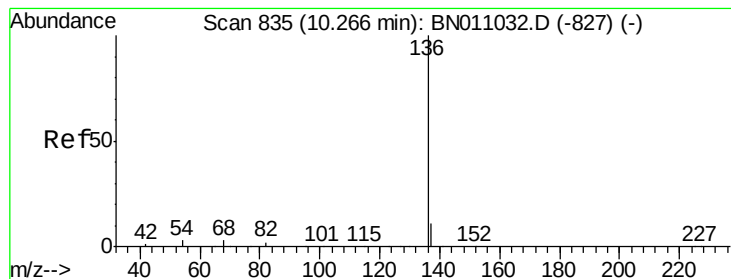


Abundance Ion 93.00 (92.70 to 93.70): BN011032.D (-509) (-)

Ion 63.00 (62.70 to 63.70): BN011032.D (-509) (-)

Ion 95.00 (94.70 to 95.70): BN011032.D (-509) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.27 min Scan# 835

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

Tot Ion:136 Resp: 10623

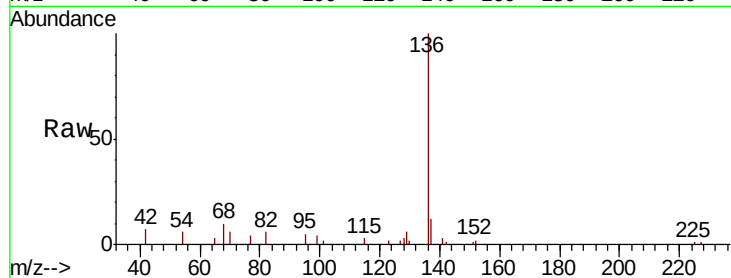
Ion Ratio Lower Upper

136 100

137 12.4 9.6 14.4

54 6.3 3.0 4.4#

68 9.7 3.4 5.2#

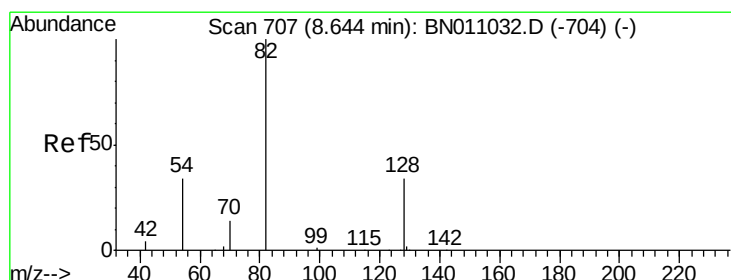
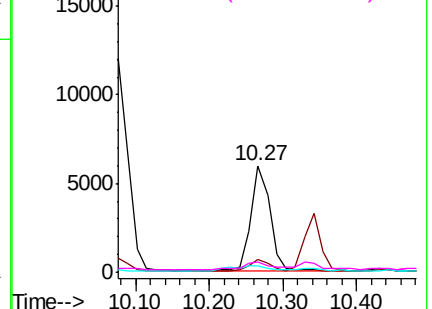
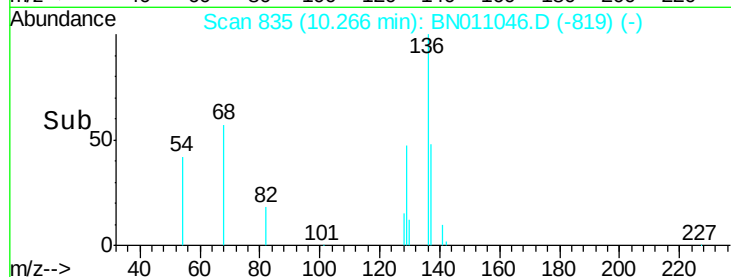


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.277 ng

RT: 8.66 min Scan# 708

Delta R.T. 0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

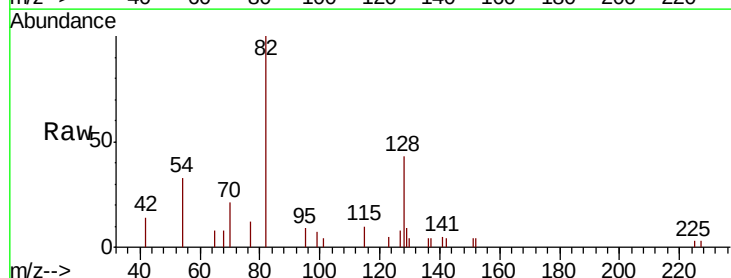
Tgt Ion: 82 Resp: 2678

Ion Ratio Lower Upper

82 100

128 43.1 29.4 44.2

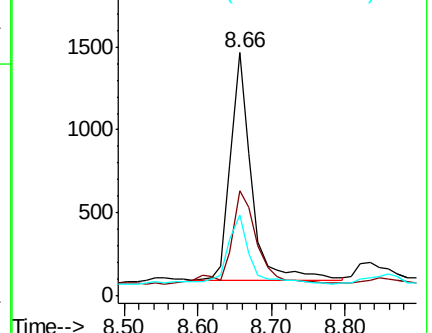
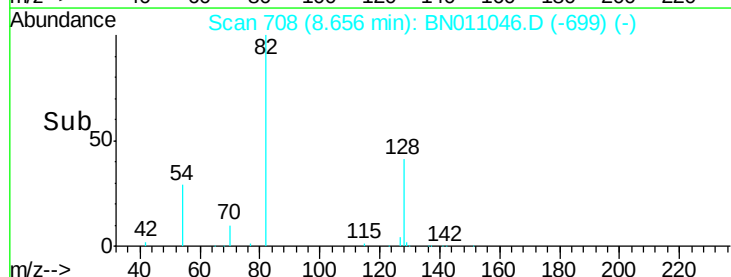
54 33.2 28.8 43.2

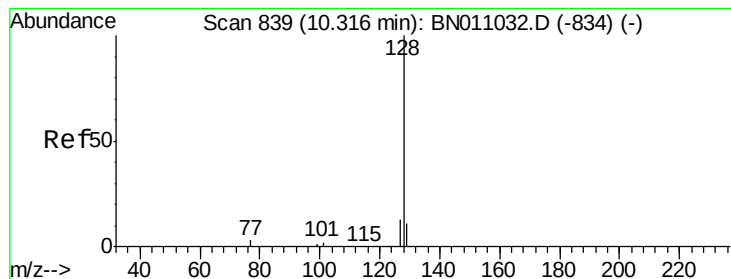


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.143 ng

RT: 10.32 min Scan# 839

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

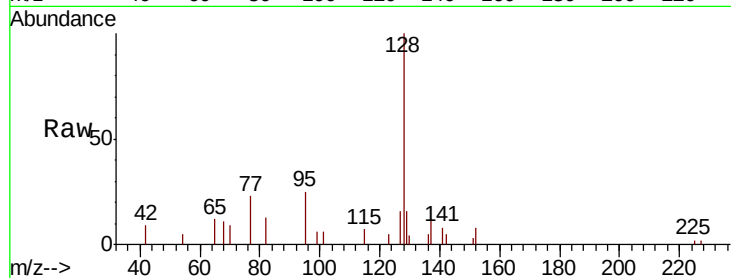
Tot Ion:128 Resp: 4610

Ion Ratio Lower Upper

128 100

129 16.5 9.8 14.6#

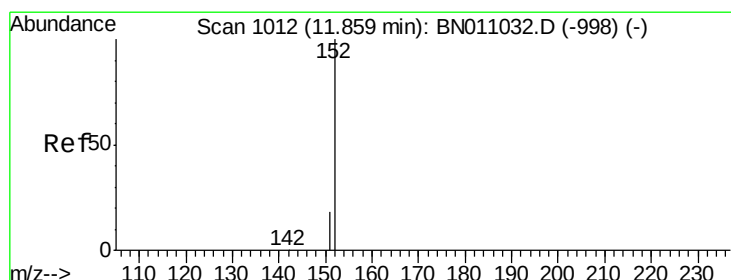
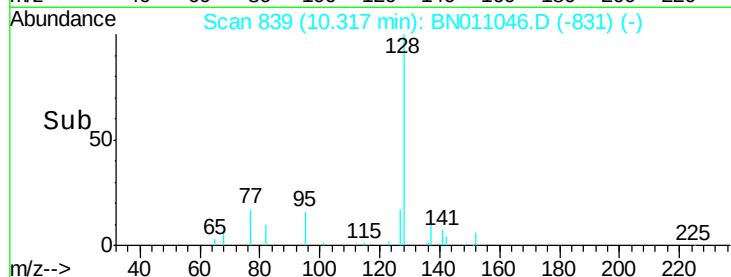
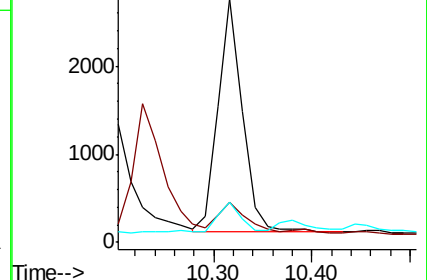
127 16.4 10.9 16.3#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.211 ng

RT: 11.86 min Scan# 1013

Delta R.T. 0.00 min

Lab File: BN011046.D

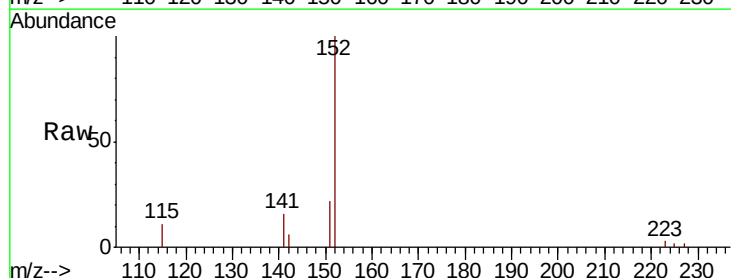
Acq: 24 Jun 2020 13:50

Tgt Ion:152 Resp: 3962

Ion Ratio Lower Upper

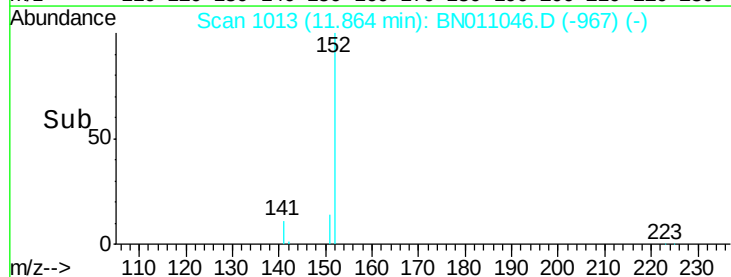
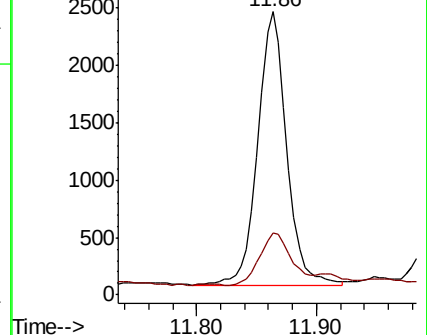
152 100

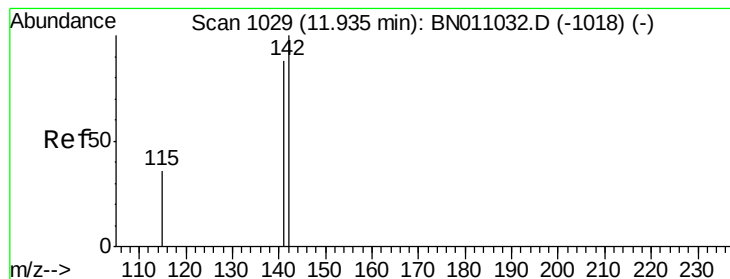
151 20.9 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.099 ng

RT: 11.94 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

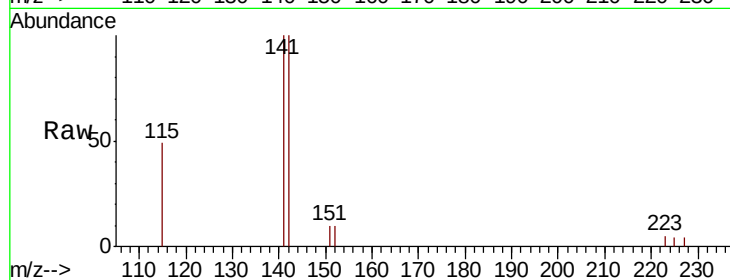
Tot Ion:142 Resp: 2147

Ion Ratio Lower Upper

142 100

141 100.2 70.6 106.0

115 49.0 30.2 45.2#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

6000

5000

4000

3000

2000

1000

0

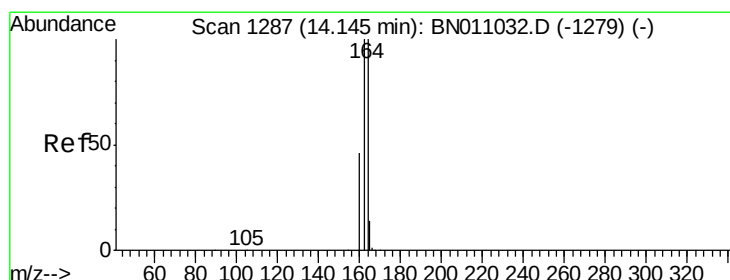
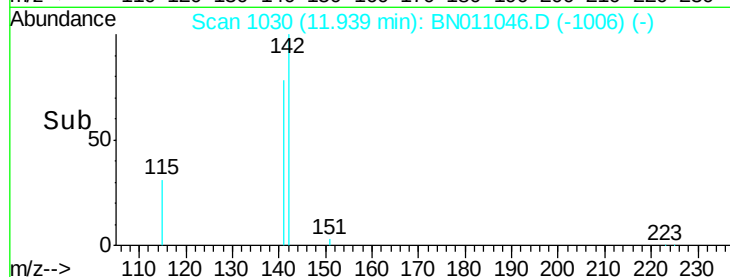
11.90

11.94

12.00

12.10

Time-->



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.14 min Scan# 1287

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

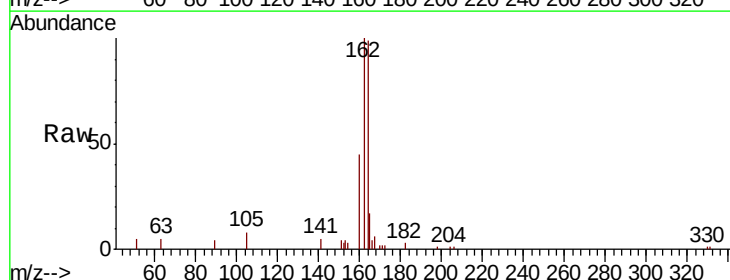
Tgt Ion:164 Resp: 6296

Ion Ratio Lower Upper

164 100

162 100.5 80.2 120.4

160 45.3 37.7 56.5



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

5000

4000

3000

2000

1000

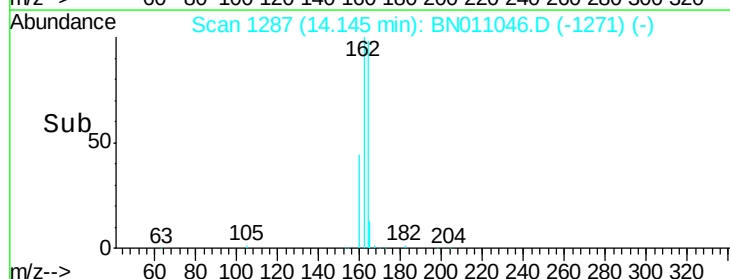
0

14.10

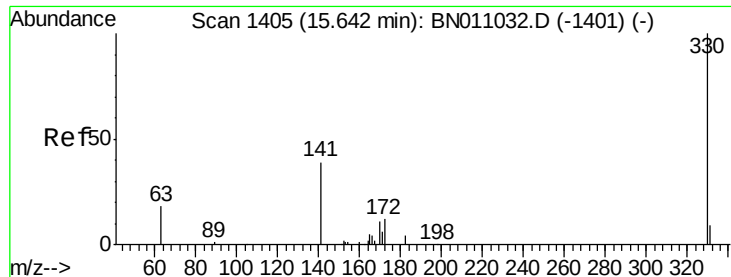
14.14

14.20

Time-->



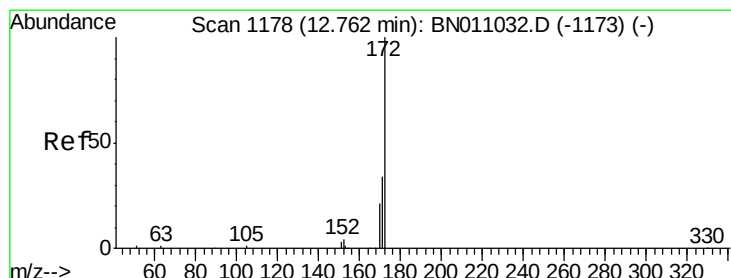
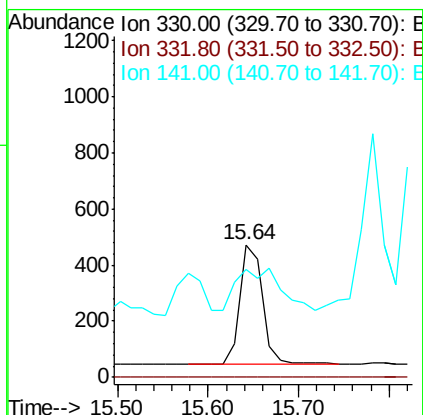
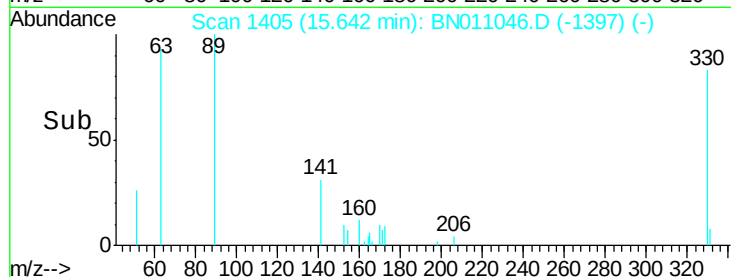
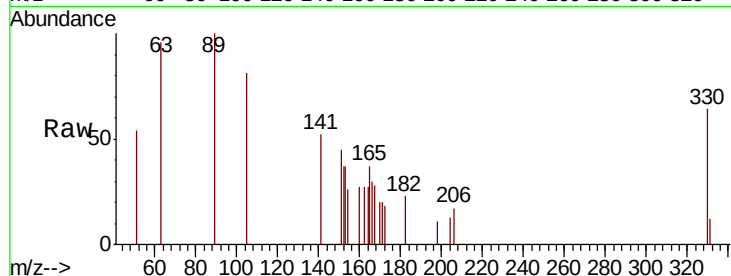




#14  
2,4,6-Tribromophenol  
Concen: 0.269 ng  
RT: 15.64 min Scan# 1405  
Delta R.T. 0.00 min  
Lab File: BN011046.D  
Acq: 24 Jun 2020 13:50

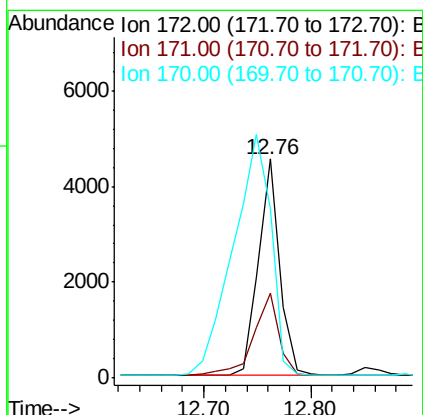
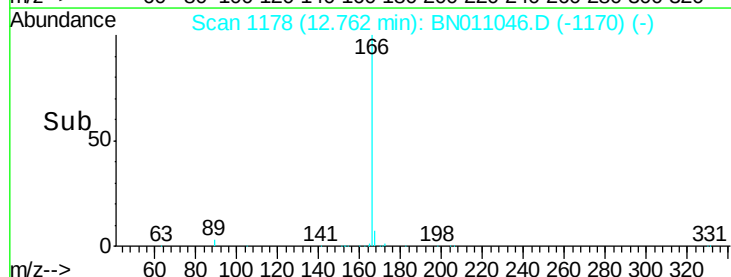
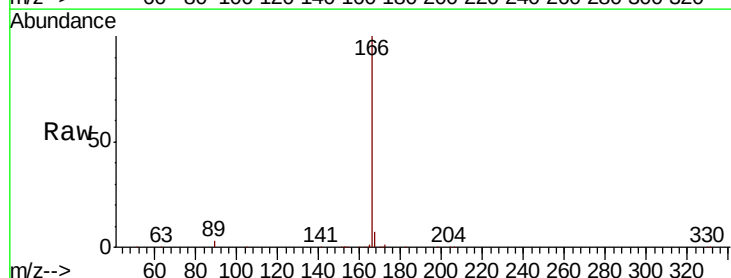
Instrument :  
BNA\_N  
ClientSampleId :  
SS043MW011-200615

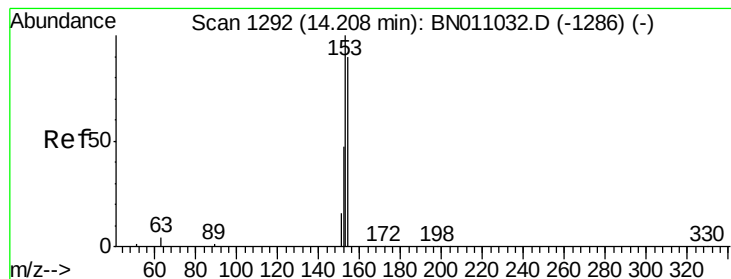
Tot Ion:330 Resp: 744  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 0.0 34.5 51.7#



#15  
2-Fluorobiphenyl  
Concen: 0.214 ng  
RT: 12.76 min Scan# 1178  
Delta R.T. 0.00 min  
Lab File: BN011046.D  
Acq: 24 Jun 2020 13:50

Tgt Ion:172 Resp: 6285  
Ion Ratio Lower Upper  
172 100  
171 38.6 27.4 41.2  
170 77.1 17.5 26.3#





#17

Acenaphthene

Concen: 1.064 ng

RT: 14.21 min Scan# 1292

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

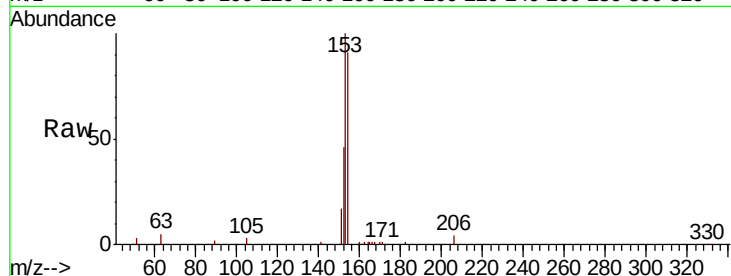
Tot Ion:154 Resp: 22672

Ion Ratio Lower Upper

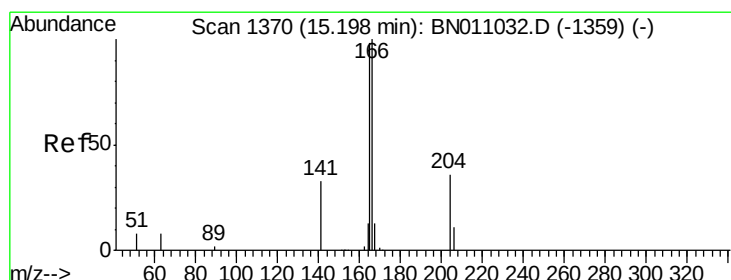
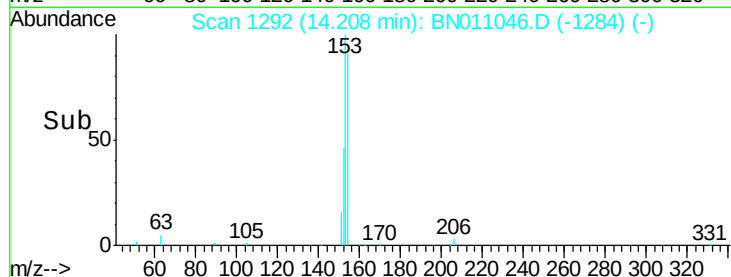
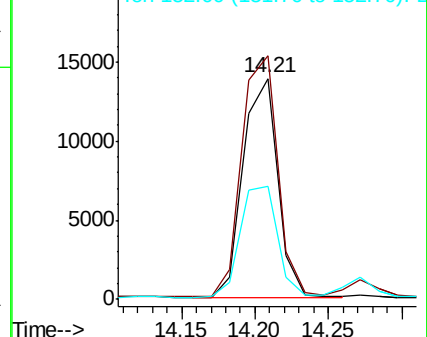
154 100

153 113.4 92.3 138.5

152 54.6 45.5 68.3



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.574 ng

RT: 15.20 min Scan# 1370

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

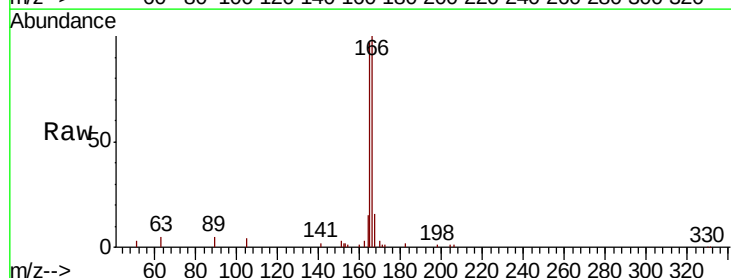
Tgt Ion:166 Resp: 15612

Ion Ratio Lower Upper

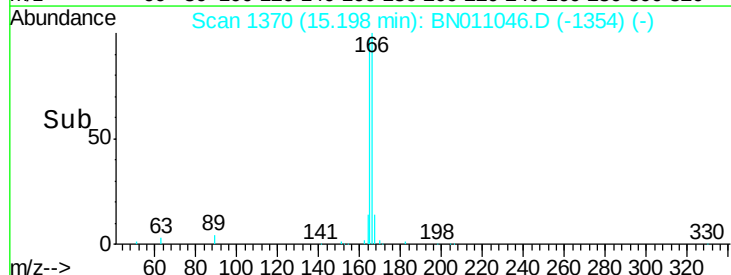
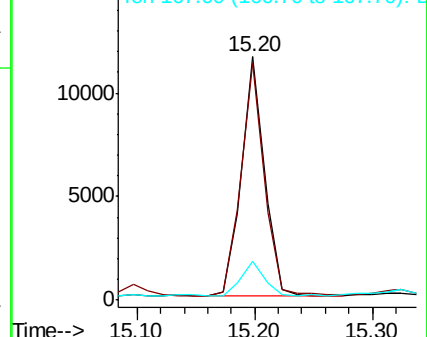
166 100

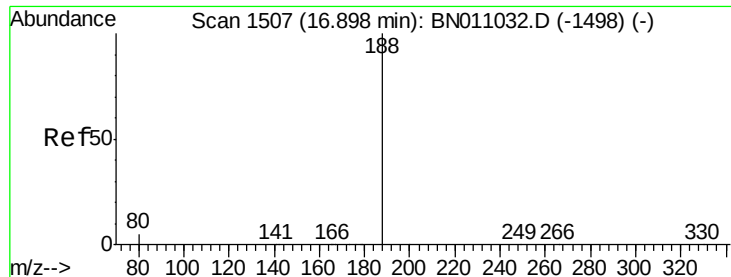
165 98.3 77.8 116.8

167 14.1 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.90 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

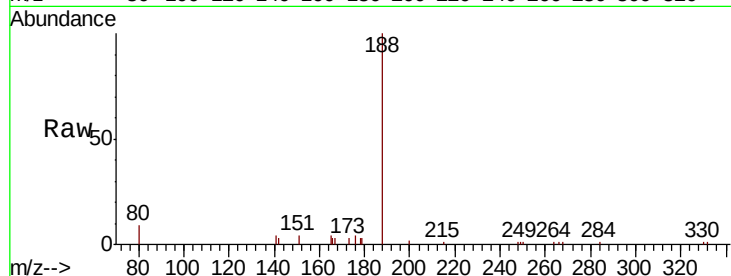
Tot Ion:188 Resp: 12616

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

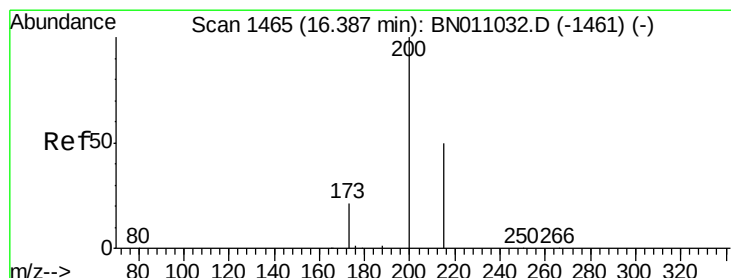
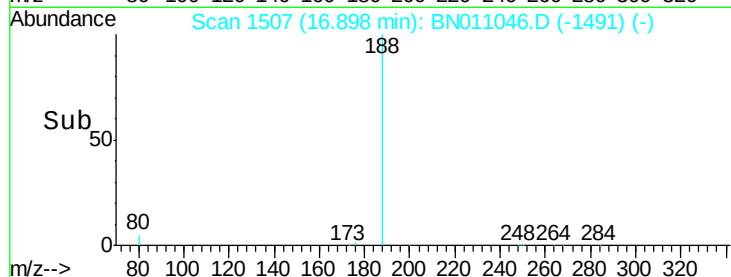
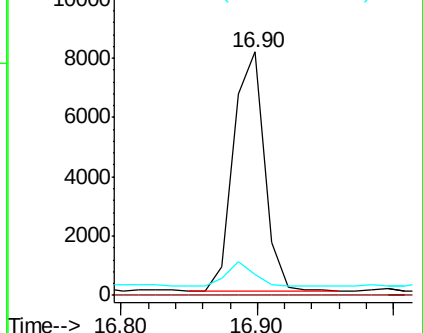
80 8.8 4.6 7.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNO

Ion 80.00 (79.70 to 80.70): BNO



#23

Atrazine

Concen: 0.025 ng

RT: 16.42 min Scan# 1468

Delta R.T. 0.04 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

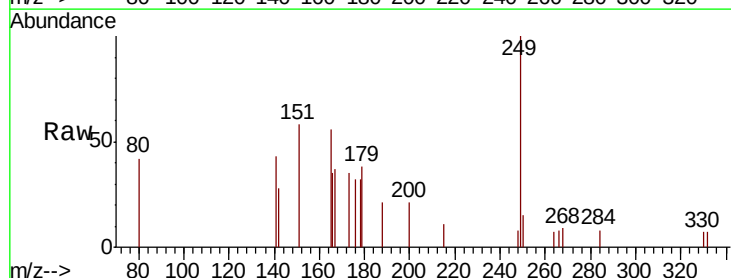
Tgt Ion:200 Resp: 161

Ion Ratio Lower Upper

200 100

173 167.8 19.4 29.2#

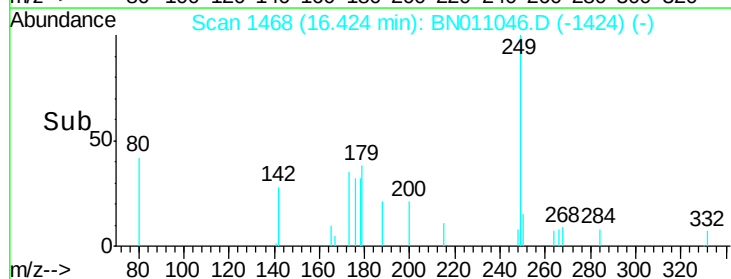
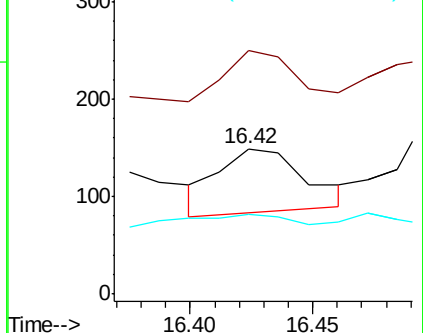
215 54.4 41.5 62.3

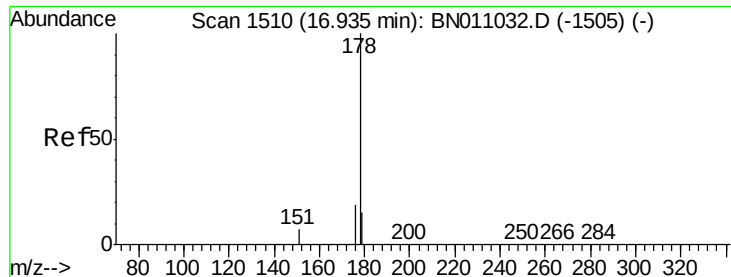


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#25

Phenanthrene

Concen: 0.043 ng

RT: 16.93 min Scan# 1510

Delta R.T. 0.00 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

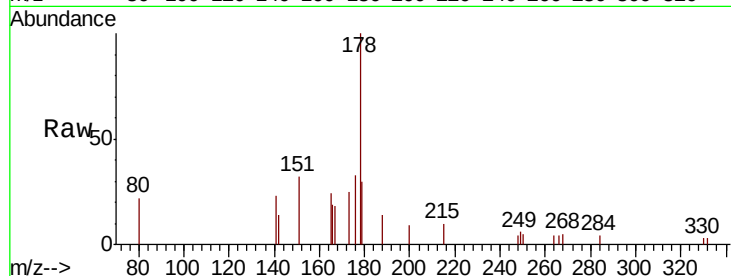
Tot Ion:178 Resp: 1811

Ion Ratio Lower Upper

178 100

176 44.5 15.0 22.6#

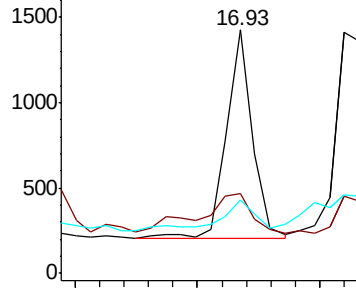
179 13.4 12.3 18.5



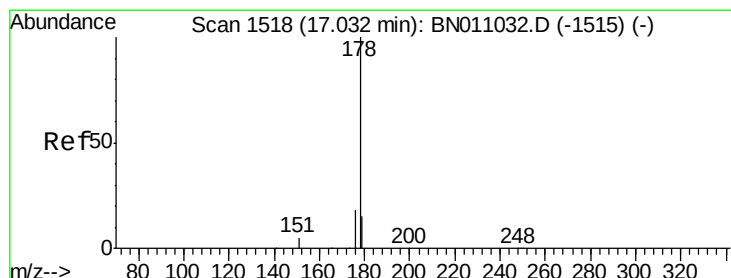
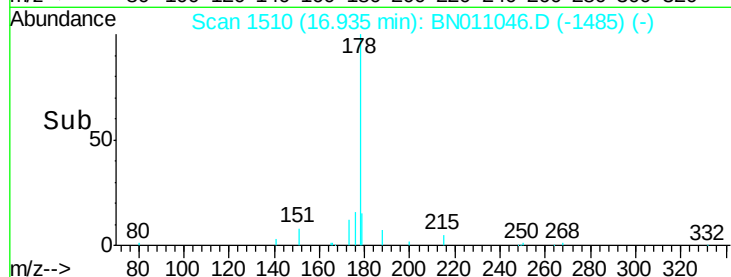
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 16.80 16.90 17.00



#26

Anthracene

Concen: 0.060 ng

RT: 17.02 min Scan# 1517

Delta R.T. -0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

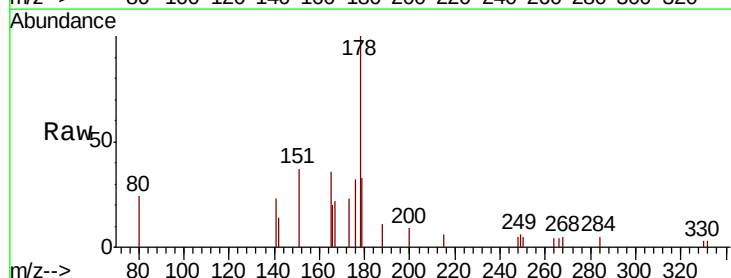
Tgt Ion:178 Resp: 2108

Ion Ratio Lower Upper

178 100

176 17.5 14.7 22.1

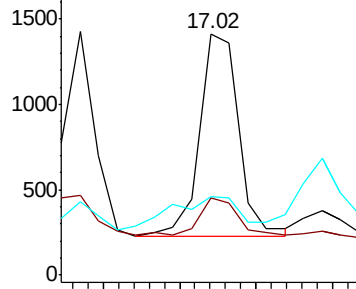
179 26.9 12.2 18.4#



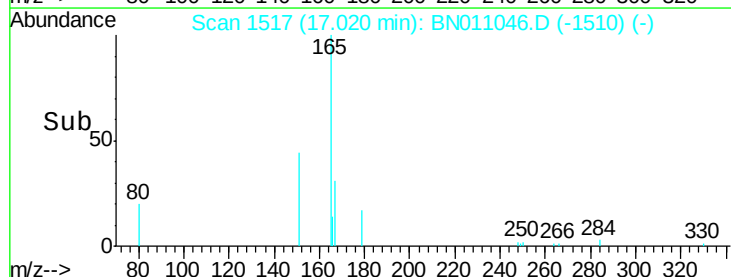
Abundance Ion 178.00 (177.70 to 178.70): E

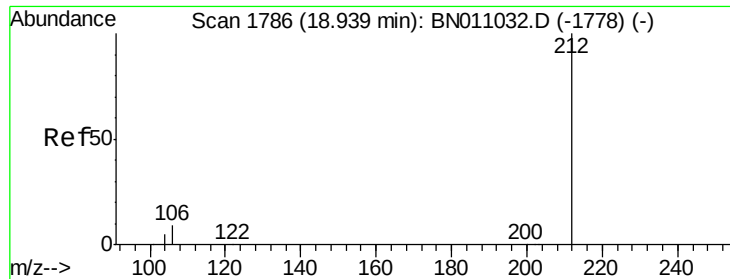
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 16.95 17.00 17.05 17.10

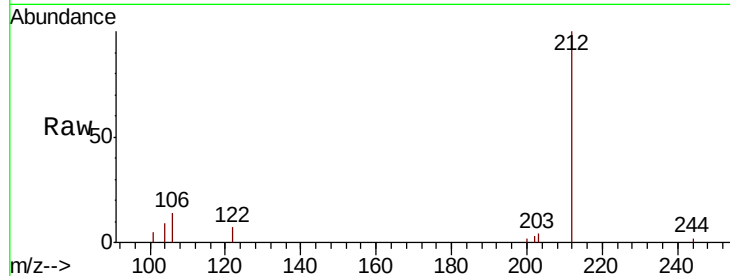




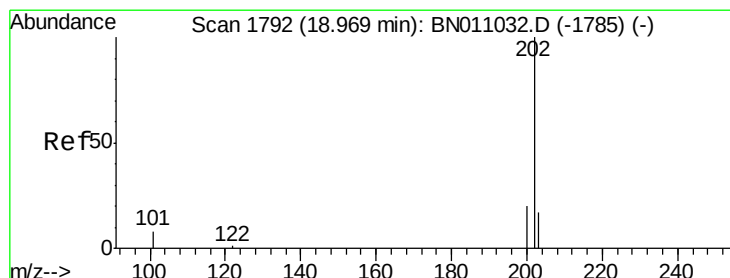
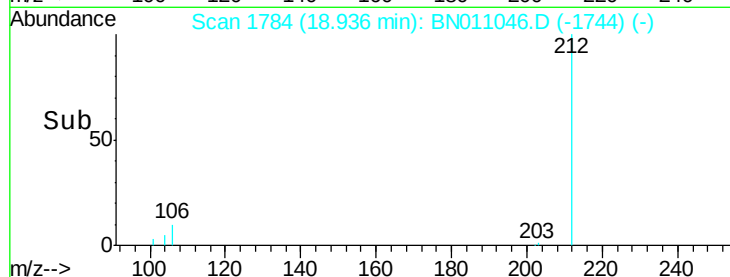
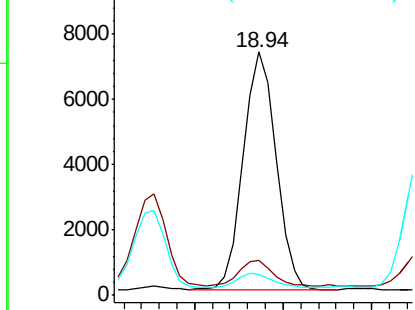
#27  
 Fluoranthene-d10  
 Concen: 0.234 ng  
 RT: 18.94 min Scan# 1784  
 Delta R.T. -0.00 min  
 Lab File: BN011046.D  
 Acq: 24 Jun 2020 13:50

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SS043MW011-200615

Tot Ion:212 Resp: 9358  
 Ion Ratio Lower Upper  
 212 100  
 106 11.0 7.7 11.5  
 104 6.1 4.6 6.8

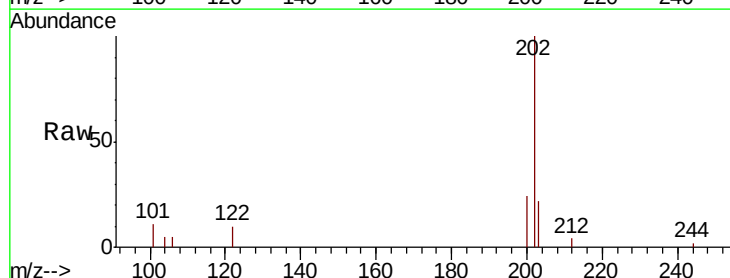


Abundance Ion 212.00 (211.70 to 212.70): E  
 Ion 106.00 (105.70 to 106.70): E  
 Ion 104.00 (103.70 to 104.70): E

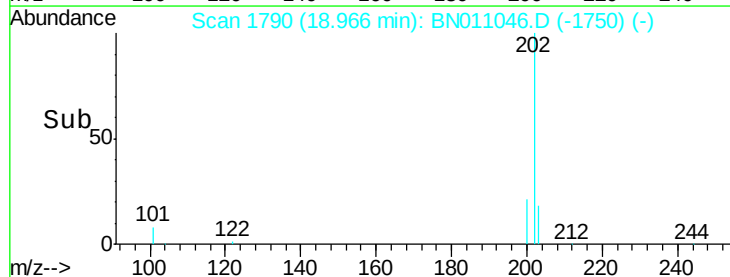
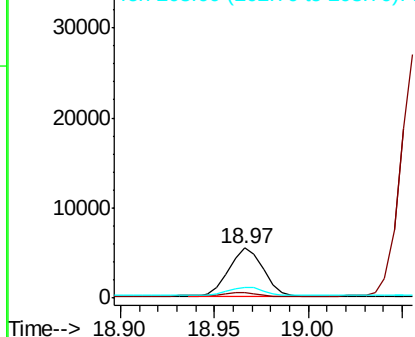


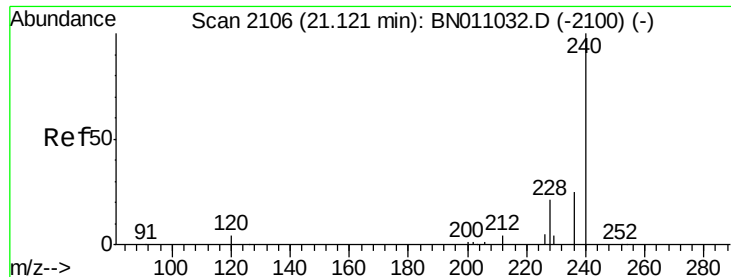
#28  
 Fluoranthene  
 Concen: 0.141 ng  
 RT: 18.97 min Scan# 1790  
 Delta R.T. -0.00 min  
 Lab File: BN011046.D  
 Acq: 24 Jun 2020 13:50

Tgt Ion:202 Resp: 6856  
 Ion Ratio Lower Upper  
 202 100  
 101 13.8 6.6 10.0#  
 203 17.5 13.8 20.6



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





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.11 min Scan# 2104

Delta R.T. -0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

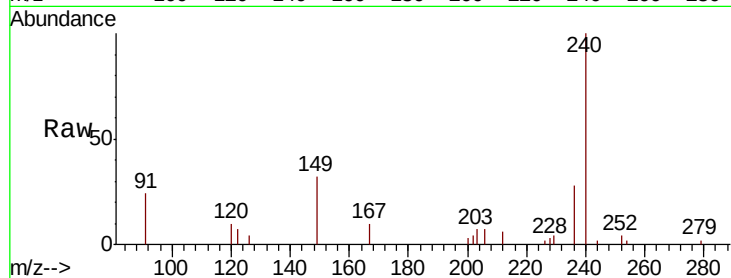
Tot Ion:240 Resp: 12031

Ion Ratio Lower Upper

240 100

120 9.8 5.4 8.0#

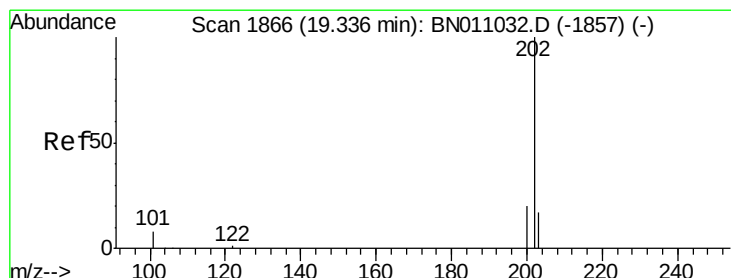
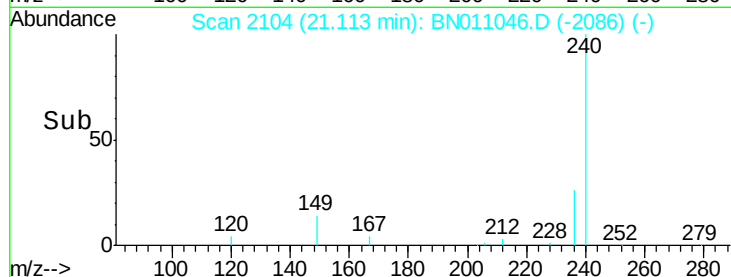
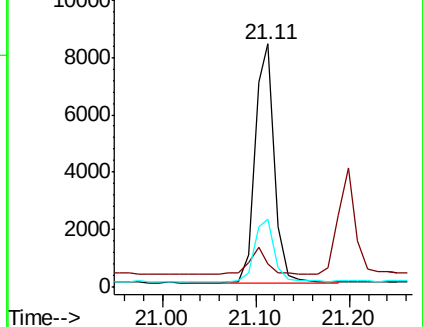
236 27.8 21.4 32.2



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



#30

Pyrene

Concen: 0.097 ng

RT: 19.33 min Scan# 1863

Delta R.T. -0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

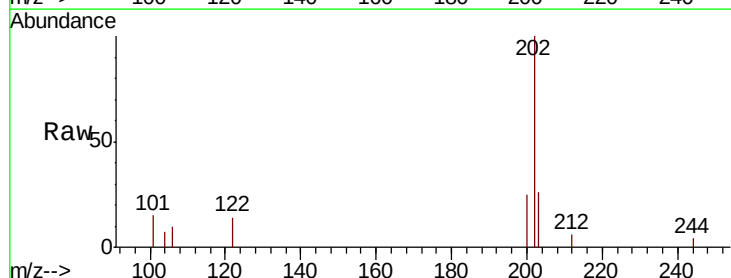
Tgt Ion:202 Resp: 4482

Ion Ratio Lower Upper

202 100

200 22.6 16.6 24.8

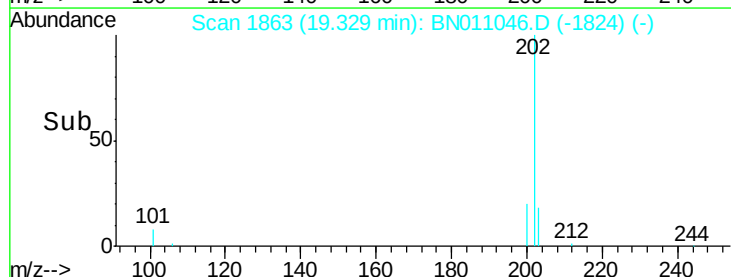
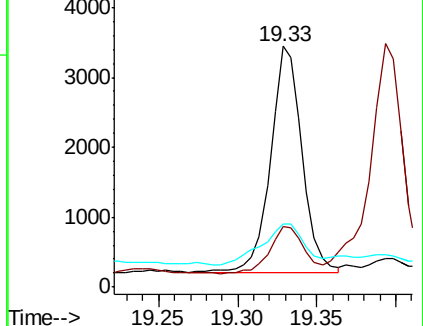
203 24.1 14.2 21.2#

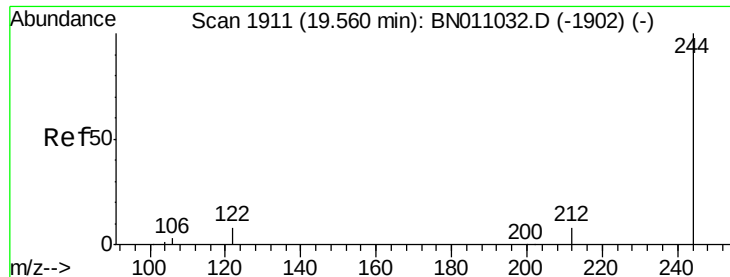


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#31

Terphenyl-d14

Concen: 0.317 ng

RT: 19.55 min Scan# 1908

Delta R.T. -0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

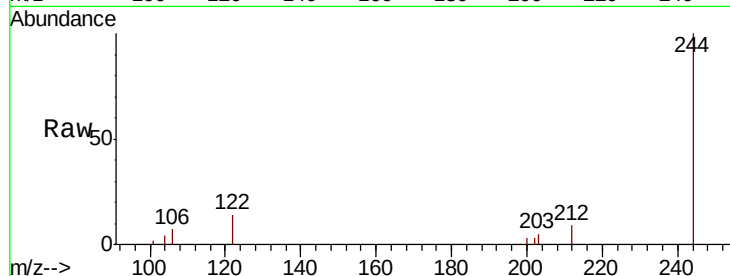
Tot Ion:244 Resp: 10229

Ion Ratio Lower Upper

244 100

212 9.1 6.9 10.3

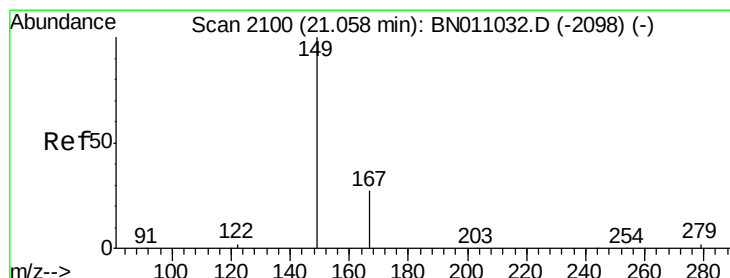
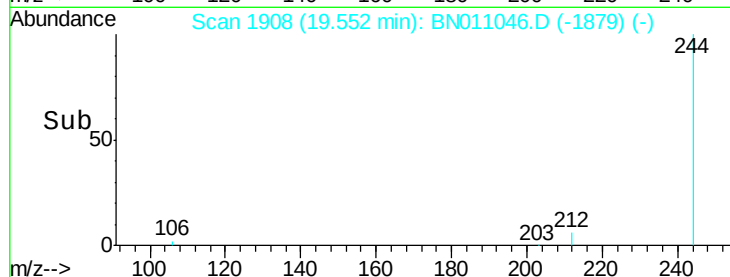
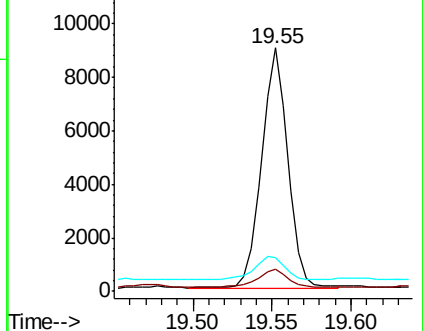
122 14.0 7.4 11.0#



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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.125 ng

RT: 21.05 min Scan# 2098

Delta R.T. -0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

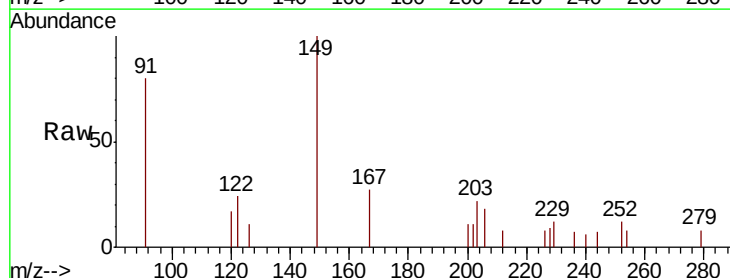
Tgt Ion:149 Resp: 2092

Ion Ratio Lower Upper

149 100

167 21.5 22.2 33.2#

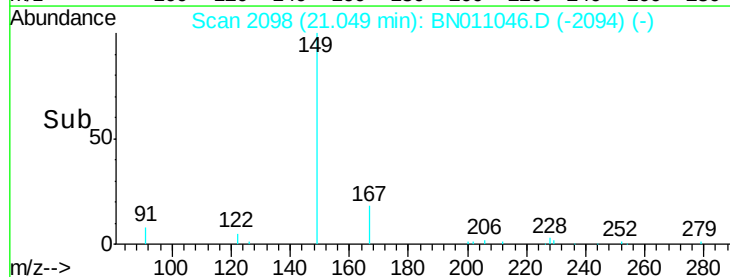
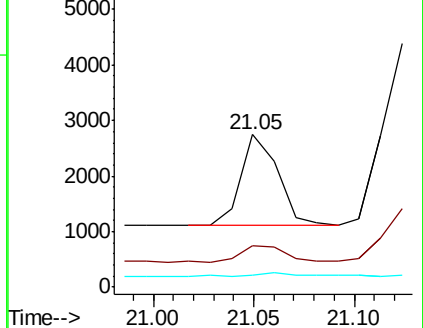
279 2.6 3.9 5.9#

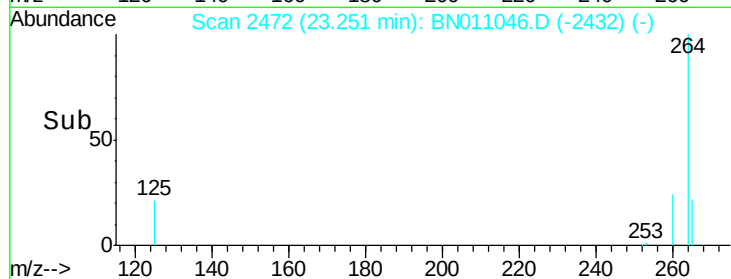
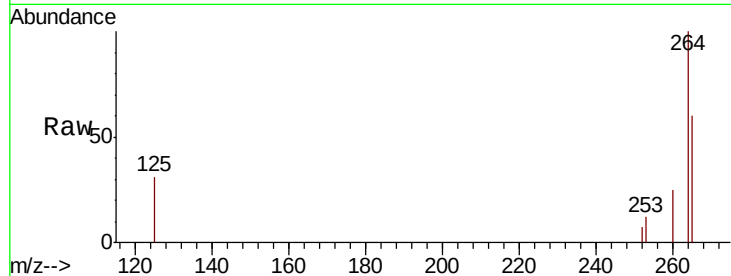
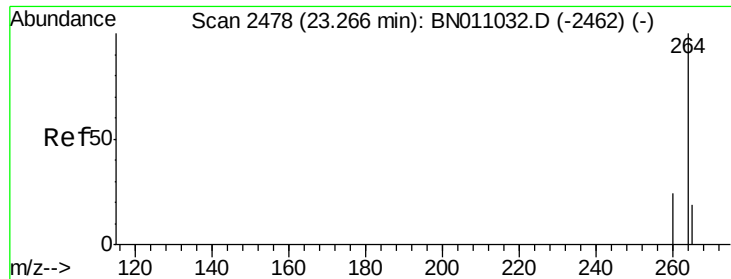


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#36

Pervlene-d12

Concen: 0.400 ng

RT: 23.25 min Scan# 2472

Delta R.T. -0.01 min

Lab File: BN011046.D

Acq: 24 Jun 2020 13:50

Instrument :

BNA\_N

ClientSampleId :

SS043MW011-200615

Tot Ion:264 Resp: 13342

Ion Ratio Lower Upper

264 100

260 25.4 20.0 30.0

265 60.3 64.9 97.3#

