

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100219\  
 Data File : BN007978.D  
 Acq On : 02 Oct 2019 22:41  
 Operator : JU  
 Sample : K5077-07  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Oct 03 06:48:42 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 18 18:24:40 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 5261     | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.46 | 136  | 21906    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.31 | 164  | 13872    | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.06 | 188  | 29718    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.25 | 240  | 32683    | 0.40 | ng    | -0.02    |
| 34) Perylene-d12          | 23.47 | 264  | 35481    | 0.40 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.31  | 112  | 5445     | 0.30 | ng    | 0.00     |
| 5) Phenol-d6                | 6.87  | 99   | 7797     | 0.34 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.82  | 82   | 5678     | 0.30 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.05 | 152  | 12046    | 0.33 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 15.81 | 330  | 1531     | 0.20 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 12.93 | 172  | 16339    | 0.29 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.09 | 212  | 32748    | 0.33 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.70 | 244  | 26707    | 0.33 | ng    | -0.01    |

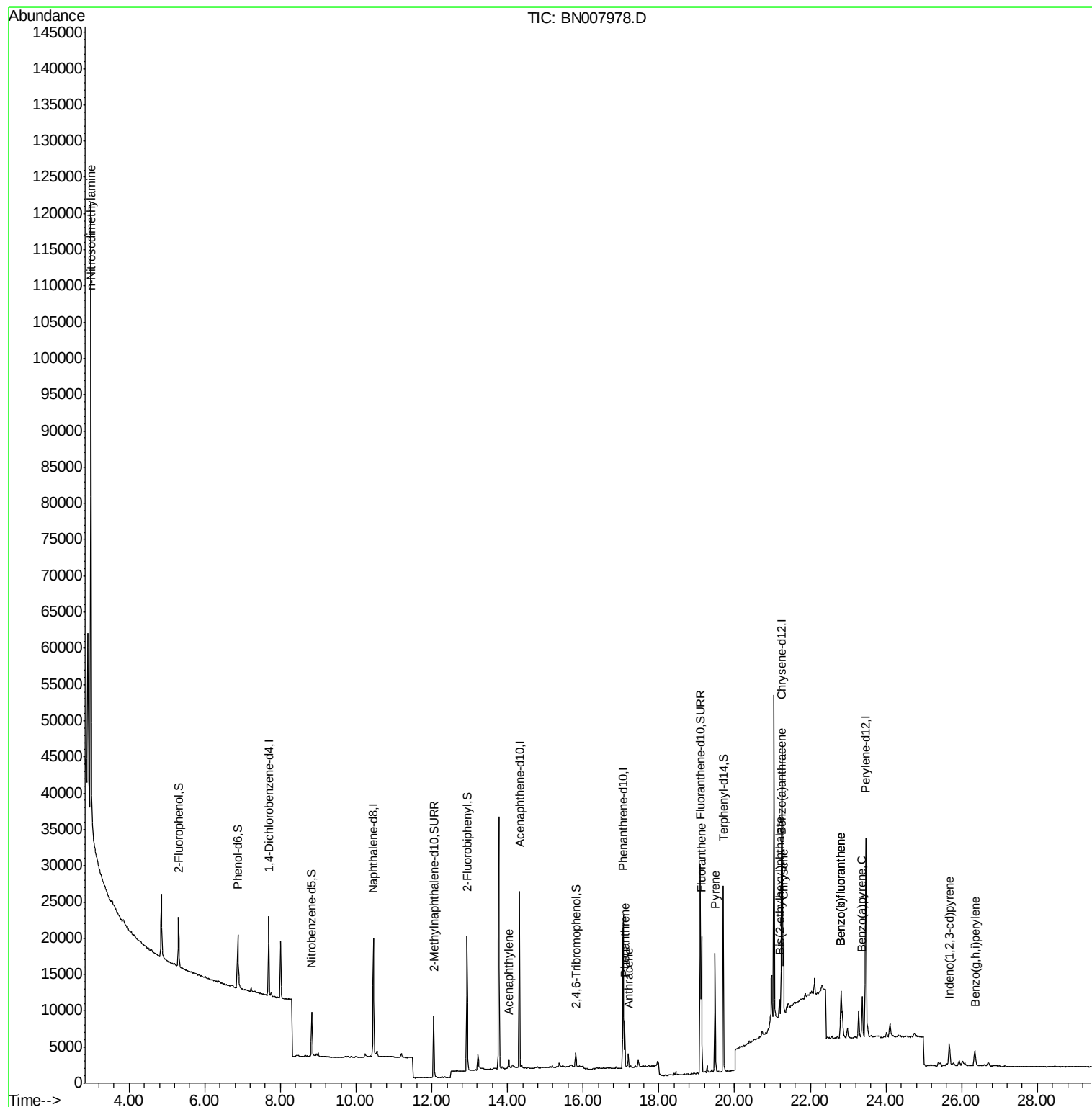
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 3) n-Nitrosodimethylamine      | 2.99  | 42   | 7257     | 2.702 | ng    | # 81   |
| 16) Acenaphthylene             | 14.02 | 152  | 2068     | 0.028 | ng    | 99     |
| 23) Phenanthrene               | 17.10 | 178  | 7450     | 0.080 | ng    | 99     |
| 24) Anthracene                 | 17.19 | 178  | 1797     | 0.021 | ng    | # 93   |
| 26) Fluoranthene               | 19.12 | 202  | 16232    | 0.141 | ng    | 100    |
| 28) Pyrene                     | 19.49 | 202  | 14537    | 0.130 | ng    | # 95   |
| 30) Benzo(a)anthracene         | 21.24 | 228  | 9702     | 0.081 | ng    | # 89   |
| 31) Chrysene                   | 21.29 | 228  | 8976     | 0.077 | ng    | # 91   |
| 32) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 3010     | 0.049 | ng    | 95     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.67 | 276  | 4767     | 0.032 | ng    | 96     |
| 35) Benzo(b)fluoranthene       | 22.81 | 252  | 10836    | 0.088 | ng    | # 59   |
| 36) Benzo(k)fluoranthene       | 22.81 | 252  | 10836    | 0.089 | ng    | # 60   |
| 37) Benzo(a)pyrene             | 23.37 | 252  | 7228     | 0.062 | ng    | # 48   |
| 39) Benzo(g,h,i)perylene       | 26.35 | 276  | 4423     | 0.038 | ng    | # 64   |

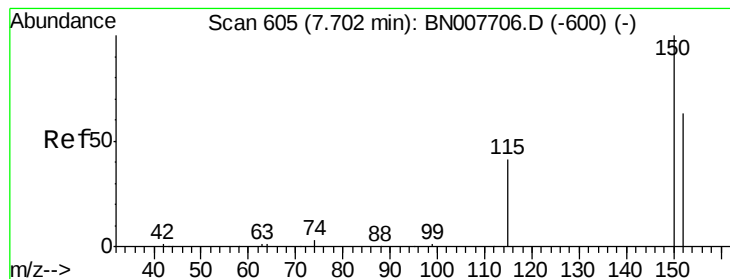
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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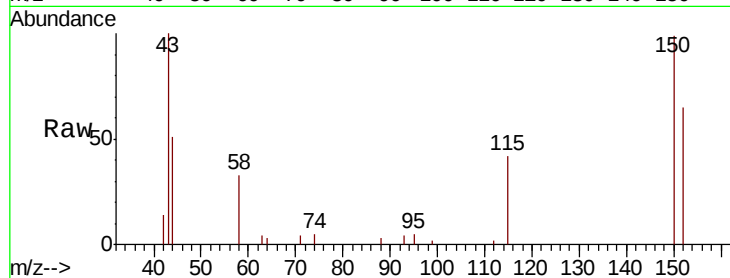


#1

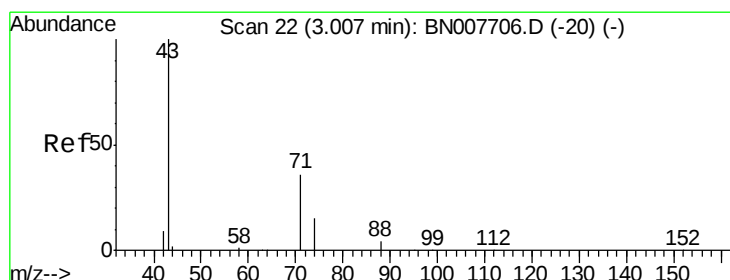
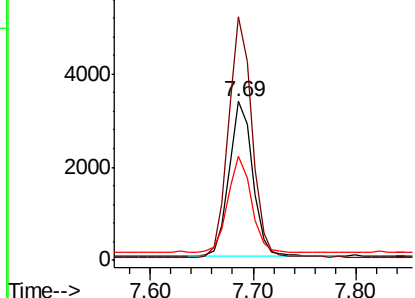
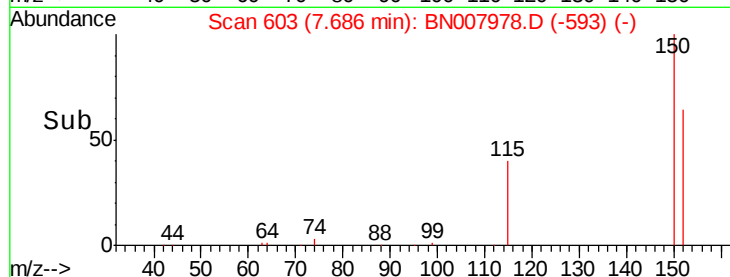
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.69 min Scan# 603  
Delta R.T. -0.02 min  
Lab File: BN007978.D  
Acq: 02 Oct 2019 22:41

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:152 Resp: 5261  
Ion Ratio Lower Upper  
152 100  
150 153.1 125.6 188.4  
115 65.6 53.3 79.9



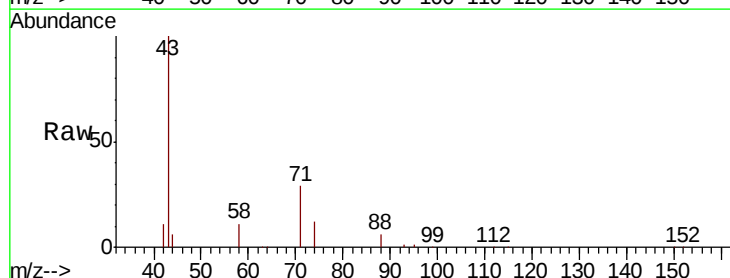
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



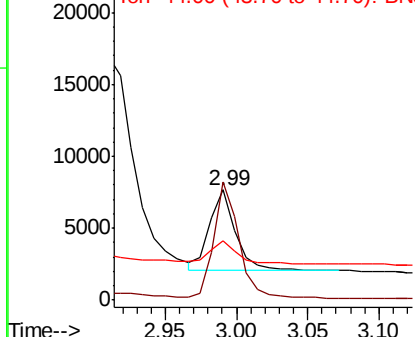
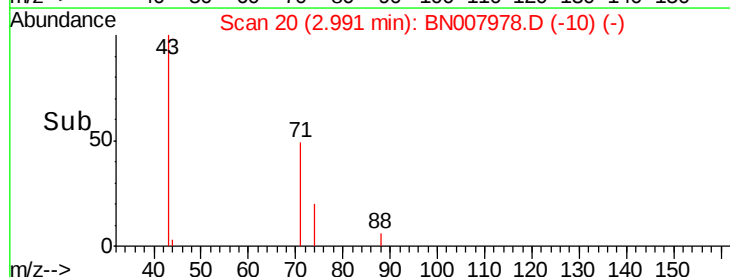
#3

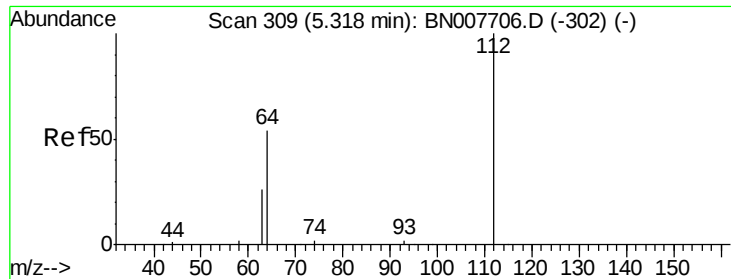
n-Nitrosodimethylamine  
Concen: 2.702 ng  
RT: 2.99 min Scan# 20  
Delta R.T. -0.02 min  
Lab File: BN007978.D  
Acq: 02 Oct 2019 22:41

Tgt Ion: 42 Resp: 7257  
Ion Ratio Lower Upper  
42 100  
74 132.9 87.9 131.9#  
44 30.2 29.4 44.0



Abundance Ion 42.00 (41.70 to 42.70): BNC  
Ion 74.00 (73.70 to 74.70): BNC  
Ion 44.00 (43.70 to 44.70): BNC





#4

2-Fluorophenol

Concen: 0.301 ng

RT: 5.31 min Scan# 308

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampled :

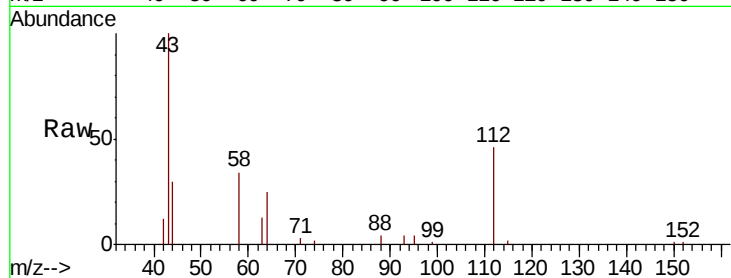
Tot Ion:112 Resp: 5445

Ion Ratio Lower Upper

112 100

64 57.4 46.6 70.0

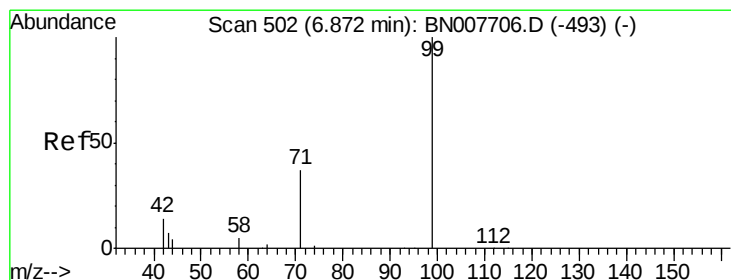
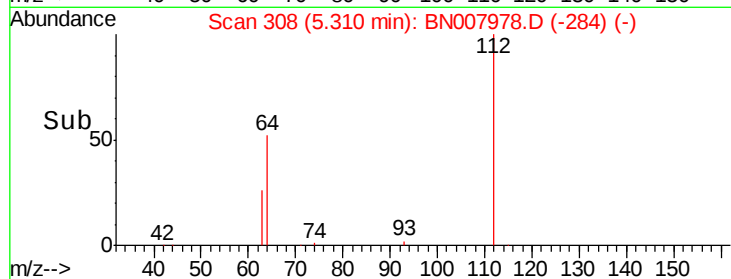
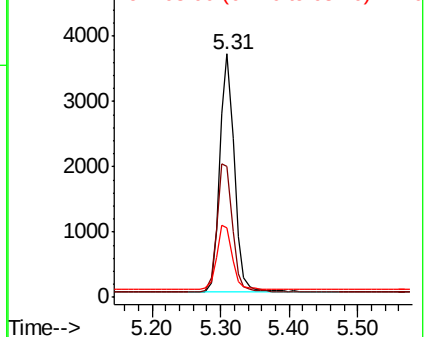
63 29.3 23.1 34.7



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): B

Ion 63.00 (62.70 to 63.70): B



#5

Phenol-d6

Concen: 0.345 ng

RT: 6.87 min Scan# 502

Delta R.T. 0.00 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

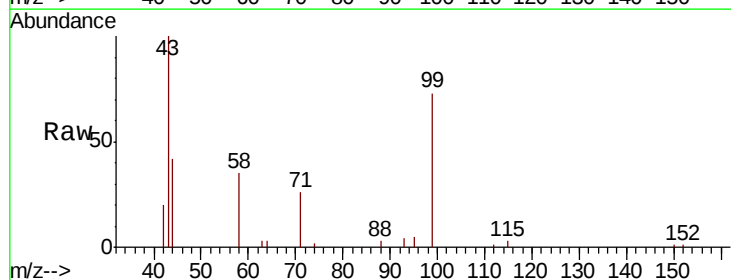
Tgt Ion: 99 Resp: 7797

Ion Ratio Lower Upper

99 100

42 14.5 12.8 19.2

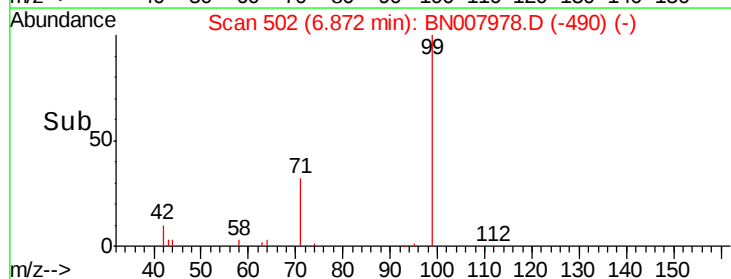
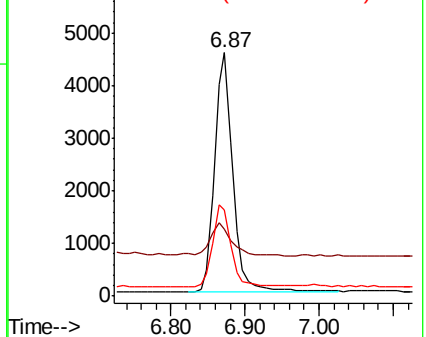
71 34.1 27.6 41.4



Abundance Ion 99.00 (98.70 to 99.70): B

Ion 42.00 (41.70 to 42.70): B

Ion 71.00 (70.70 to 71.70): B





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.46 min Scan# 850

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampleId :

Tot Ion:136 Resp: 21906

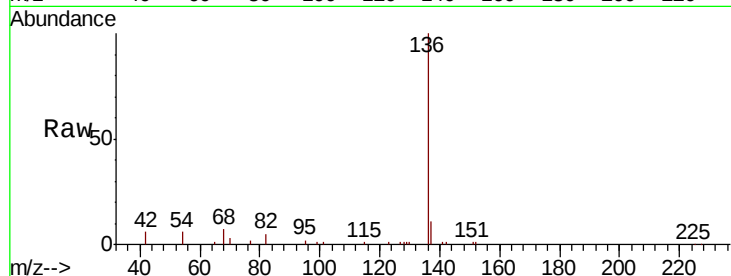
Ion Ratio Lower Upper

136 100

137 11.5 9.2 13.8

54 6.4 5.8 8.8

68 7.3 6.5 9.7

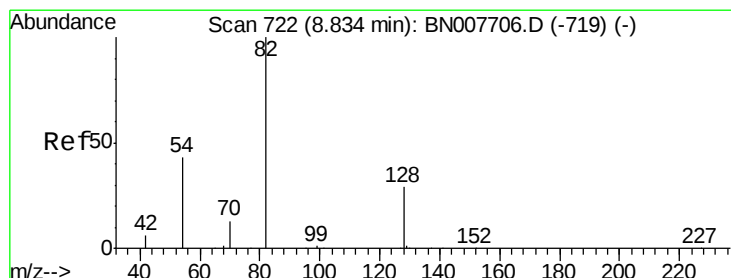
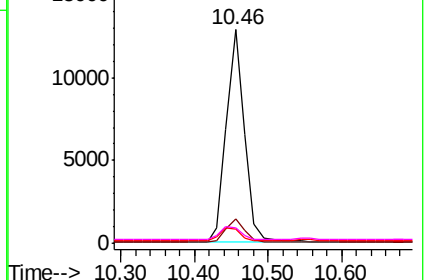
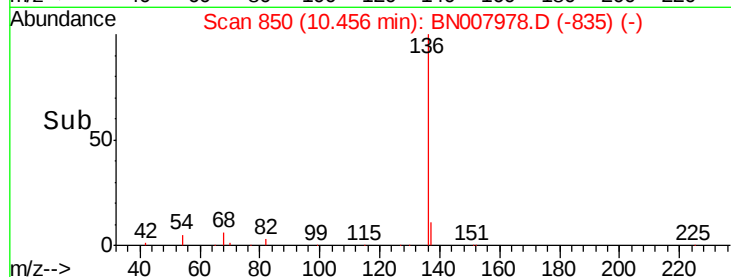


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.296 ng

RT: 8.82 min Scan# 721

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

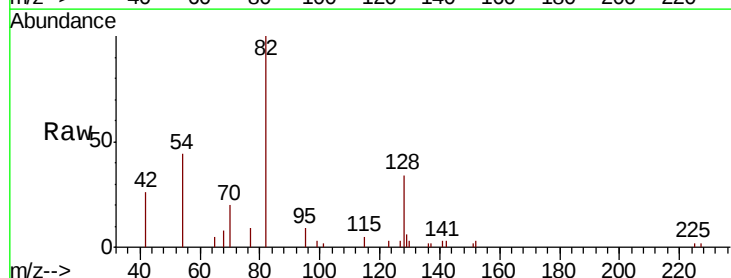
Tgt Ion: 82 Resp: 5678

Ion Ratio Lower Upper

82 100

128 34.2 24.5 36.7

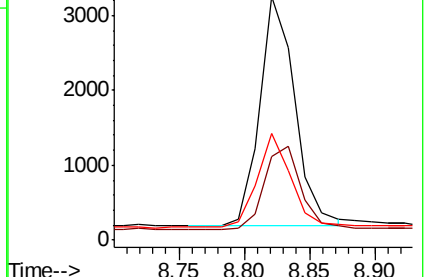
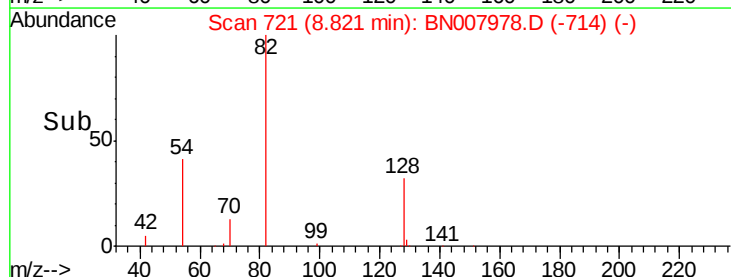
54 43.7 35.2 52.8



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

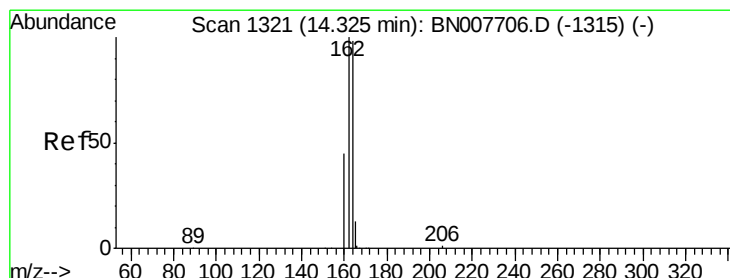
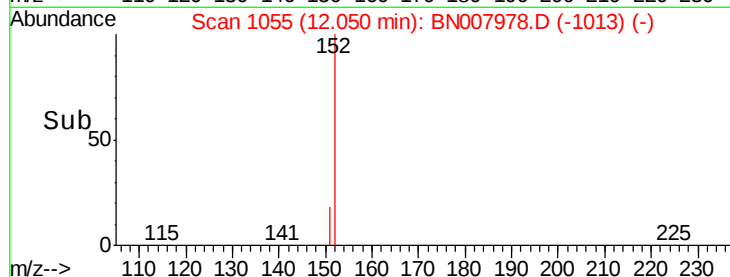
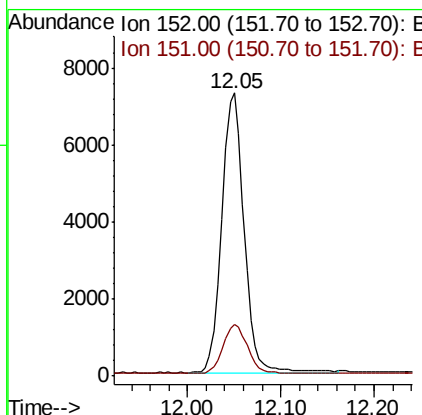
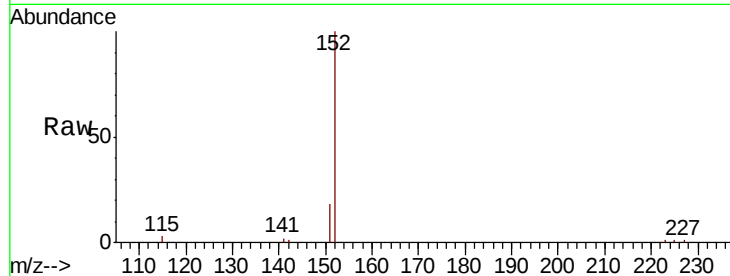




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.326 ng  
 RT: 12.05 min Scan# 1055  
 Delta R.T. -0.01 min  
 Lab File: BN007978.D  
 Acq: 02 Oct 2019 22:41

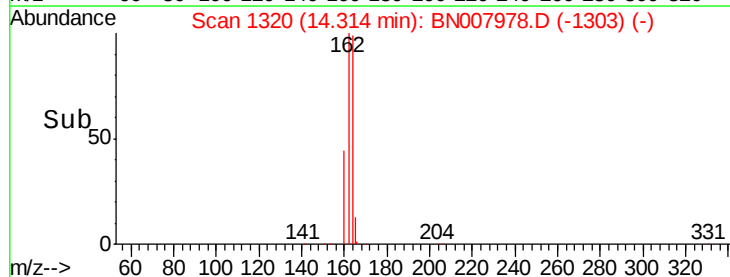
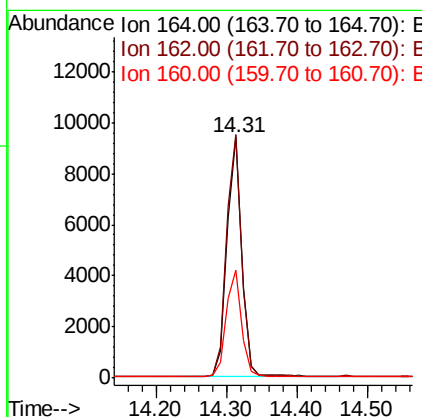
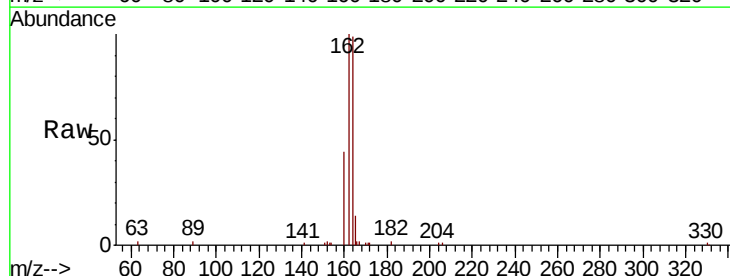
Instrument :  
 BNA\_N  
 ClientSampleId :

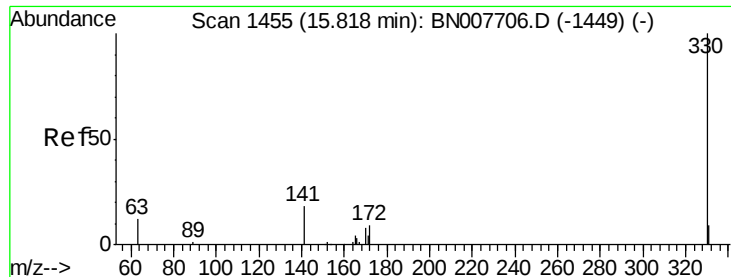
Tot Ion:152 Resp: 12046  
 Ion Ratio Lower Upper  
 152 100  
 151 19.2 15.4 23.2



#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.31 min Scan# 1320  
 Delta R.T. -0.01 min  
 Lab File: BN007978.D  
 Acq: 02 Oct 2019 22:41

Tgt Ion:164 Resp: 13872  
 Ion Ratio Lower Upper  
 164 100  
 162 101.0 81.7 122.5  
 160 44.8 37.0 55.4

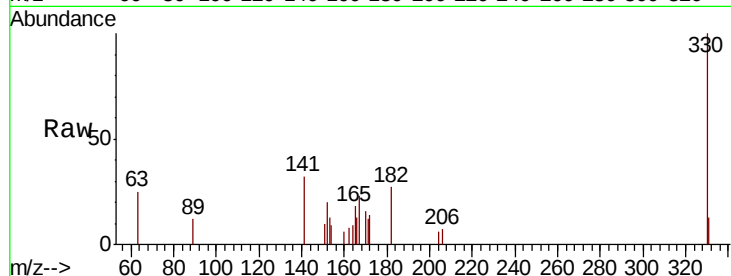




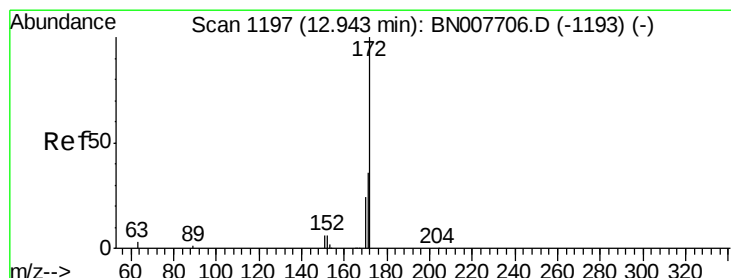
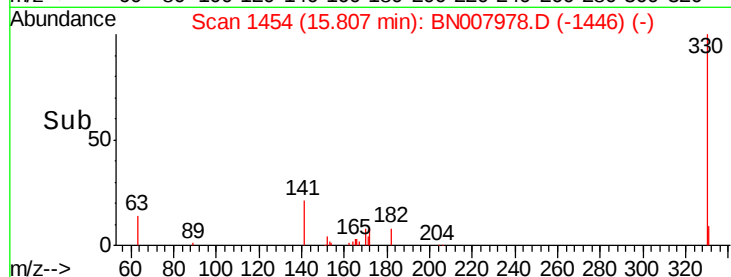
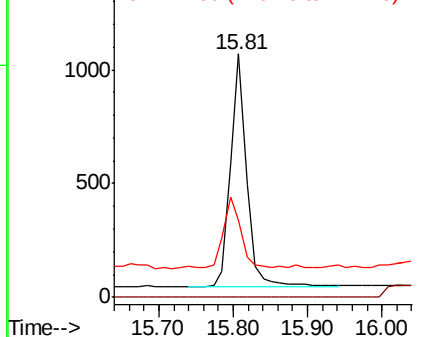
#14  
2,4,6-Tribromophenol  
Concen: 0.203 ng  
RT: 15.81 min Scan# 1454  
Delta R.T. -0.01 min  
Lab File: BN007978.D  
Acq: 02 Oct 2019 22:41

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:330 Resp: 1531  
Ion Ratio Lower Upper  
330 100  
332 0.0 0.0 0.0  
141 32.0 28.7 43.1

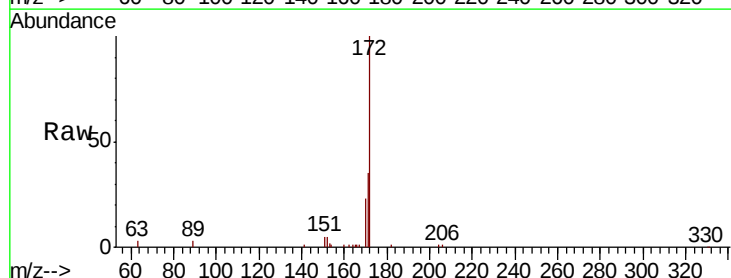


Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

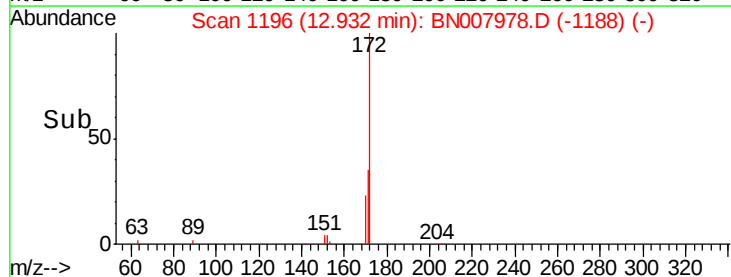
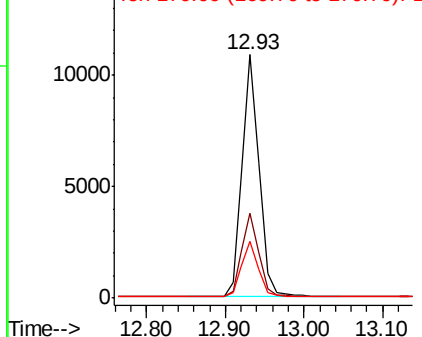


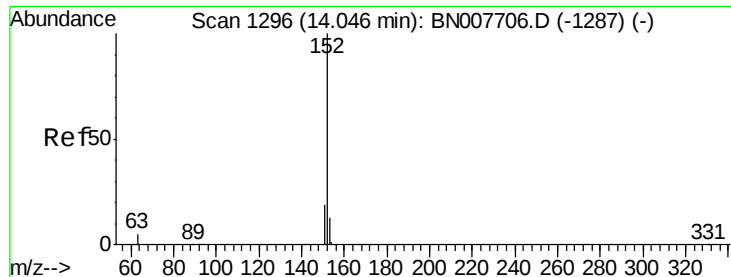
#15  
2-Fluorobiphenyl  
Concen: 0.286 ng  
RT: 12.93 min Scan# 1196  
Delta R.T. -0.01 min  
Lab File: BN007978.D  
Acq: 02 Oct 2019 22:41

Tgt Ion:172 Resp: 16339  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.8 43.2  
170 23.2 19.5 29.3



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





#16

Acenaphthylene

Concen: 0.028 ng

RT: 14.02 min Scan# 1294

Delta R.T. -0.02 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampled :

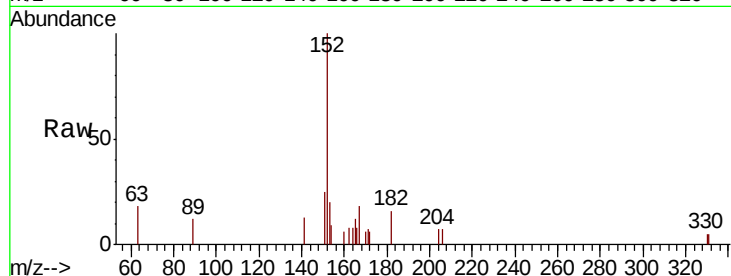
Tot Ion:152 Resp: 2068

Ion Ratio Lower Upper

152 100

151 19.9 15.5 23.3

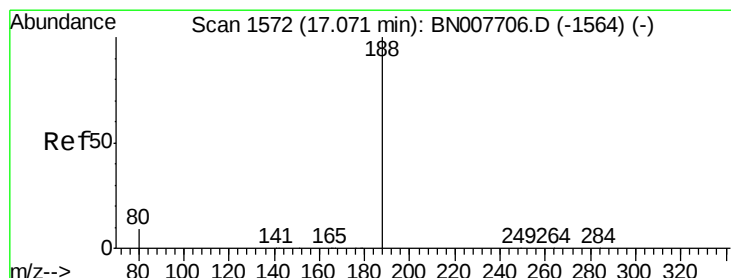
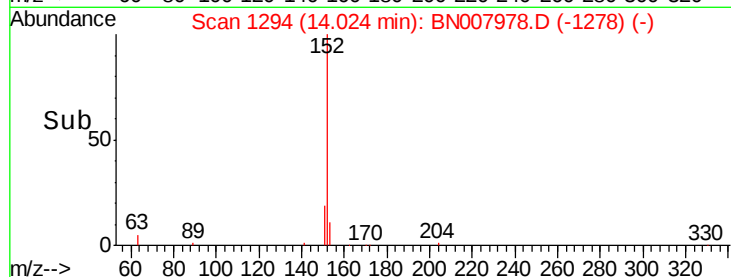
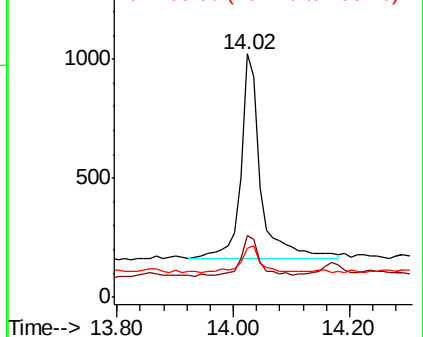
153 12.4 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.06 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

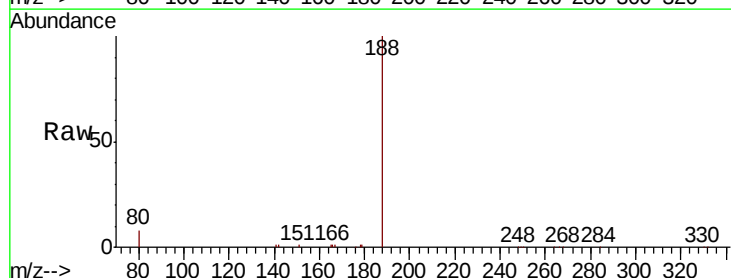
Tgt Ion:188 Resp: 29718

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

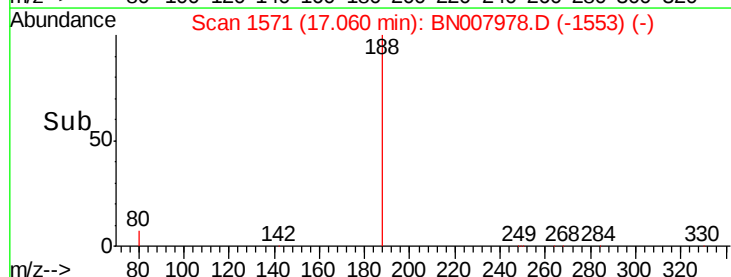
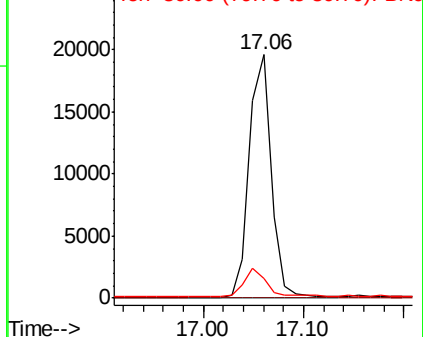
80 8.2 7.4 11.2

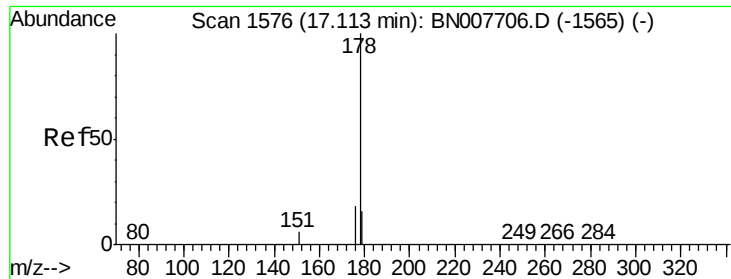


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#23

Phenanthrene

Concen: 0.080 ng

RT: 17.10 min Scan# 1575

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

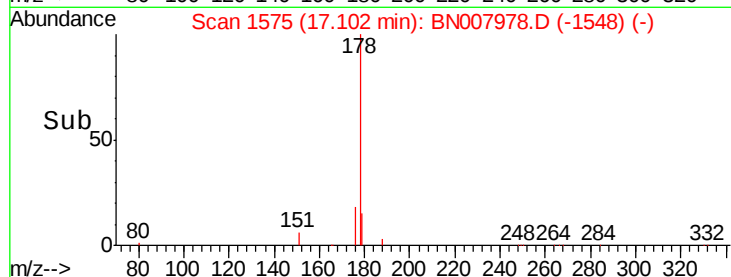
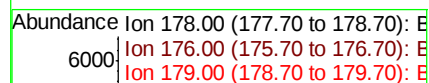
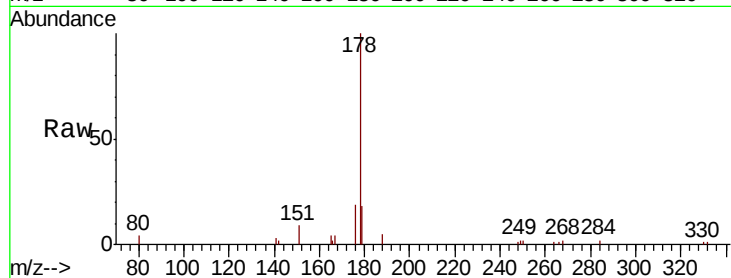
Instrument :

BNA\_N

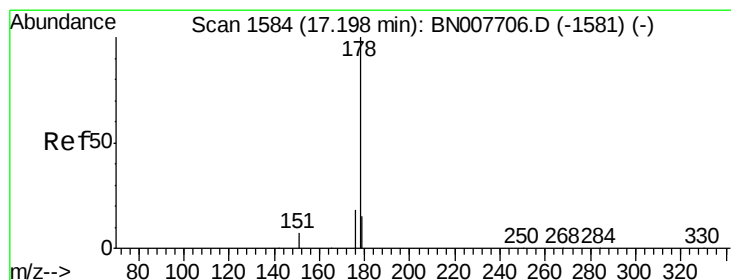
ClientSampleId :

Tot Ion:178 Resp: 7450

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.7  | 14.9  | 22.3  |
| 179 | 16.2  | 12.5  | 18.7  |



Time-->



#24

Anthracene

Concen: 0.021 ng

RT: 17.19 min Scan# 1583

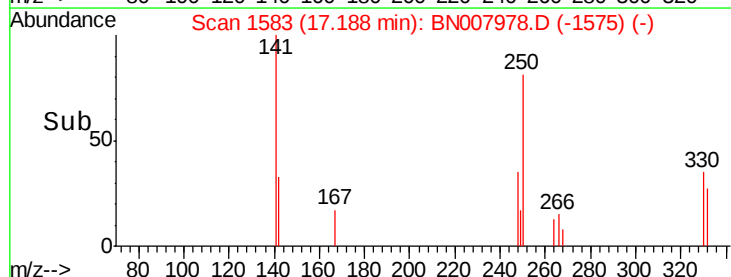
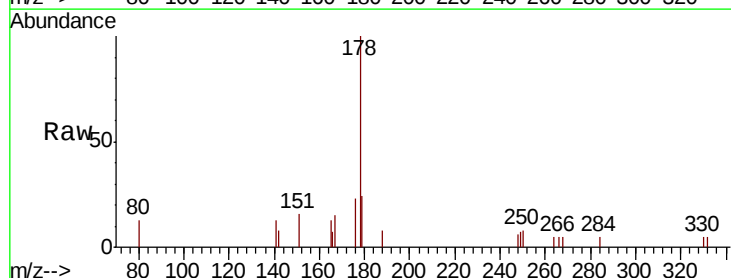
Delta R.T. -0.01 min

Lab File: BN007978.D

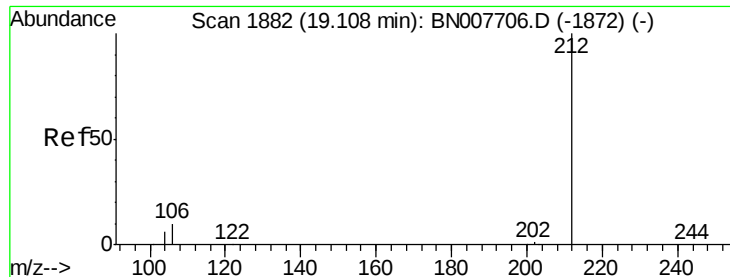
Acq: 02 Oct 2019 22:41

Tgt Ion:178 Resp: 1797

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.8  | 14.6  | 21.8  |
| 179 | 21.3  | 12.2  | 18.4  |



Time-->



#25

Fluoranthene-d10

Concen: 0.327 ng

RT: 19.09 min Scan# 1879

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampleId :

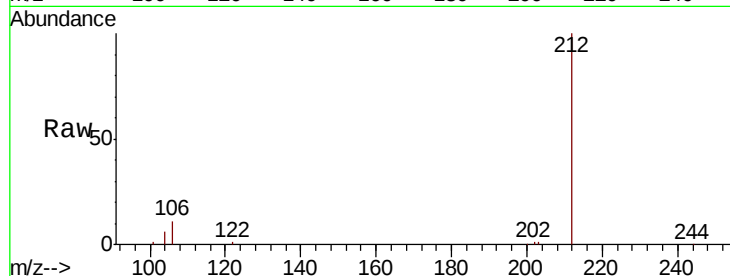
Tot Ion:212 Resp: 32748

Ion Ratio Lower Upper

212 100

106 11.3 9.4 14.0

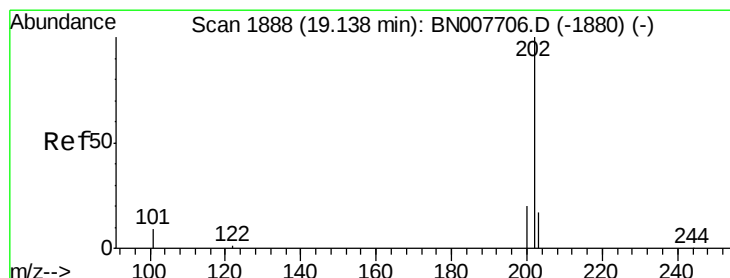
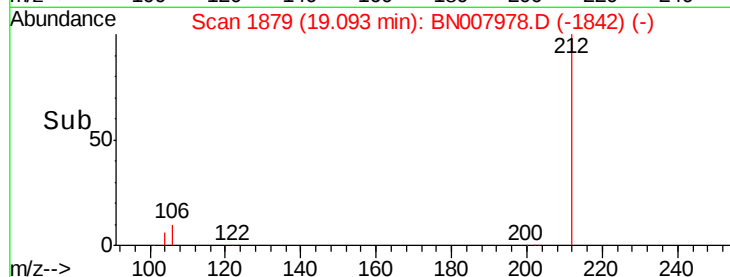
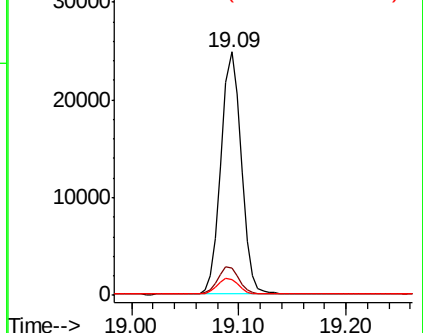
104 6.7 5.3 7.9



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



#26

Fluoranthene

Concen: 0.141 ng

RT: 19.12 min Scan# 1885

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

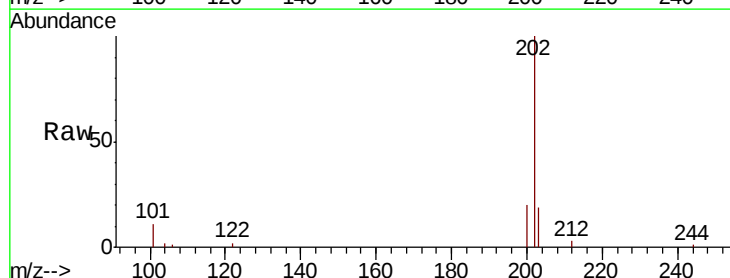
Tgt Ion:202 Resp: 16232

Ion Ratio Lower Upper

202 100

101 10.3 8.4 12.6

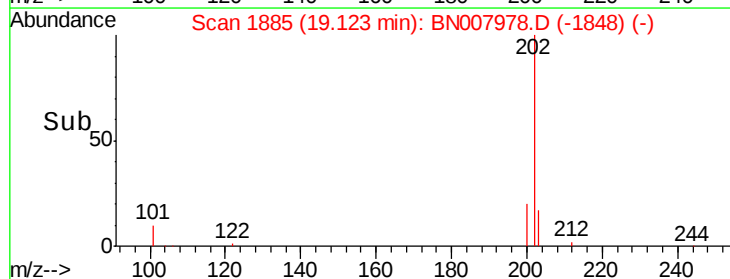
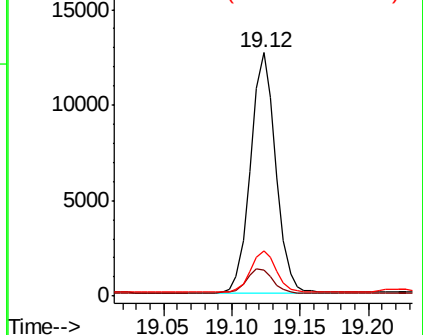
203 17.5 13.8 20.8

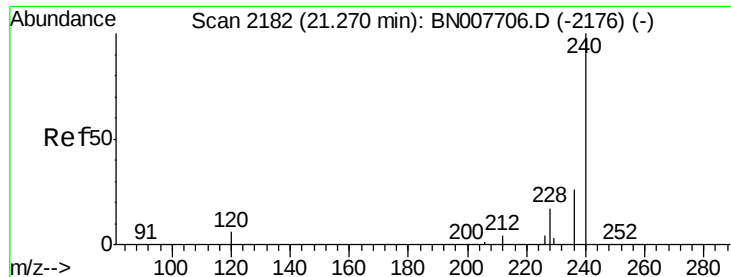


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.25 min Scan# 2180

Delta R.T. -0.02 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampleId :

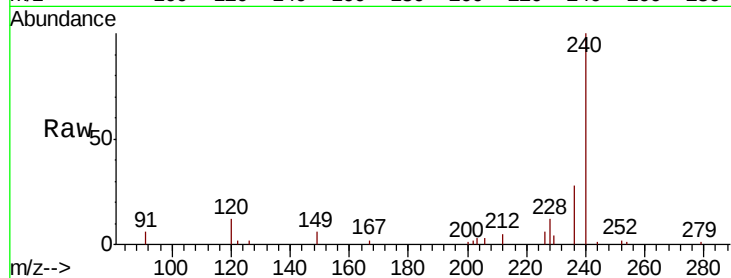
Tot Ion:240 Resp: 32683

Ion Ratio Lower Upper

240 100

120 12.1 5.4 8.2#

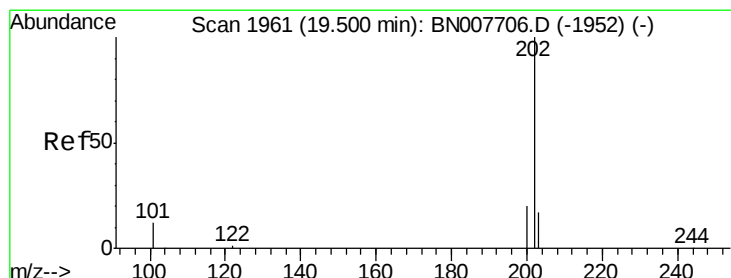
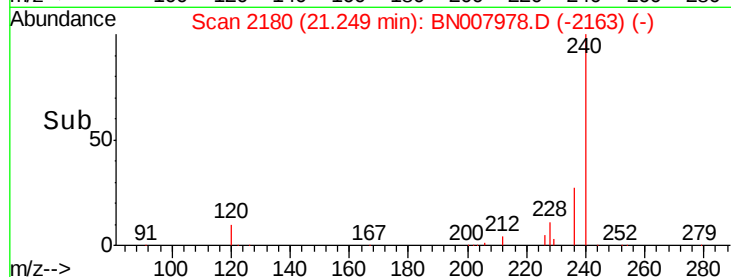
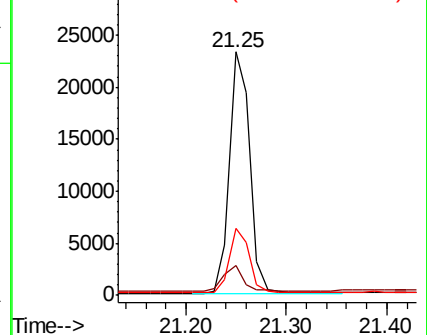
236 27.5 21.0 31.4



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



#28

Pyrene

Concen: 0.130 ng

RT: 19.49 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

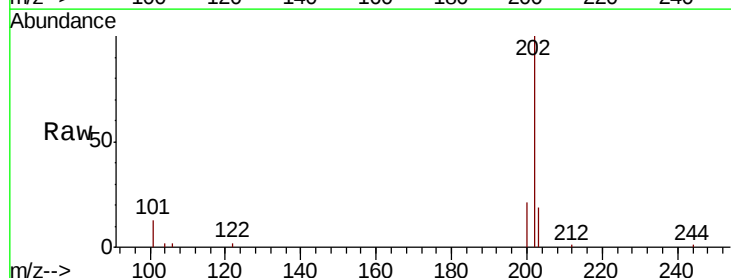
Tgt Ion:202 Resp: 14537

Ion Ratio Lower Upper

202 100

200 20.7 16.4 24.6

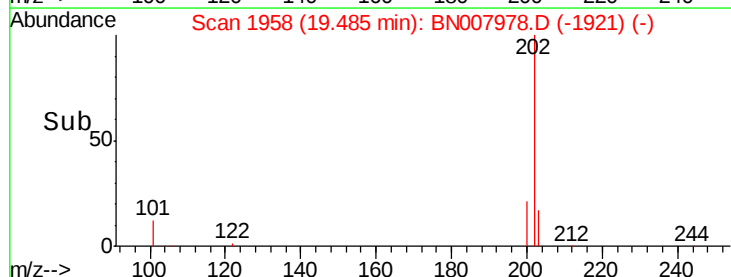
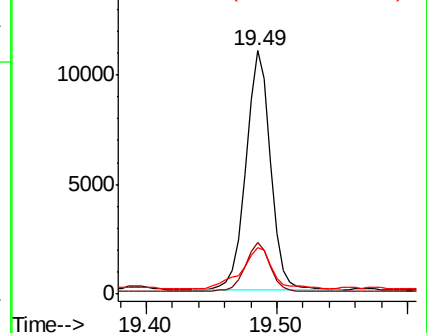
203 21.7 14.1 21.1#

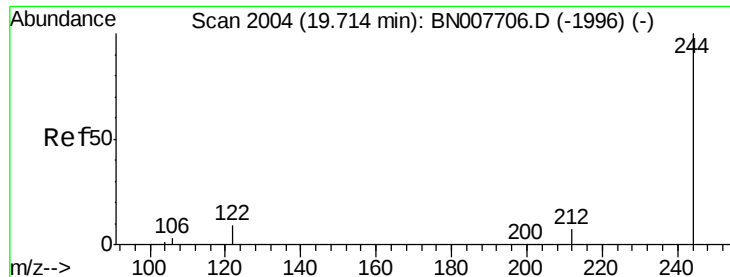


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.333 ng

RT: 19.70 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampled :

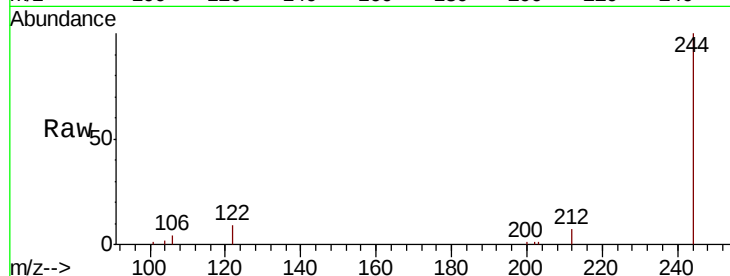
Tot Ion:244 Resp: 26707

Ion Ratio Lower Upper

244 100

212 7.2 5.9 8.9

122 9.0 7.4 11.2

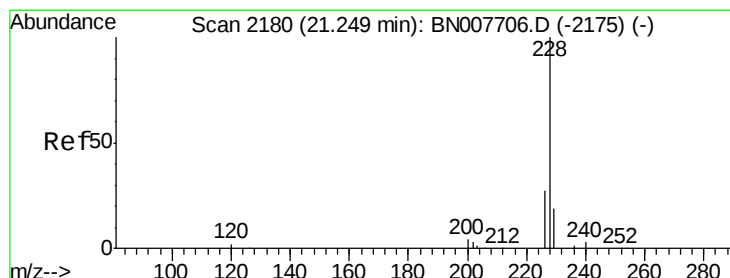
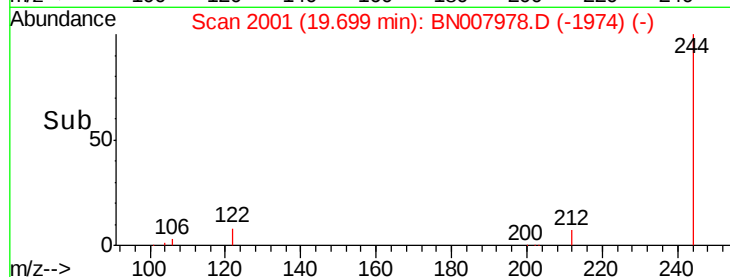
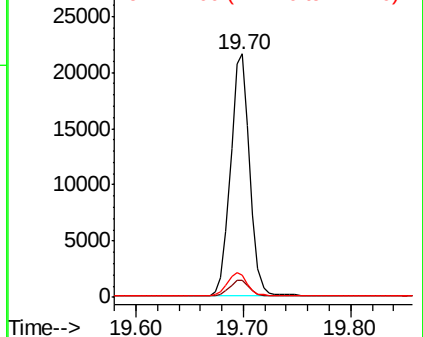


Abundance

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



#30

Benzo(a)anthracene

Concen: 0.081 ng

RT: 21.24 min Scan# 2179

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

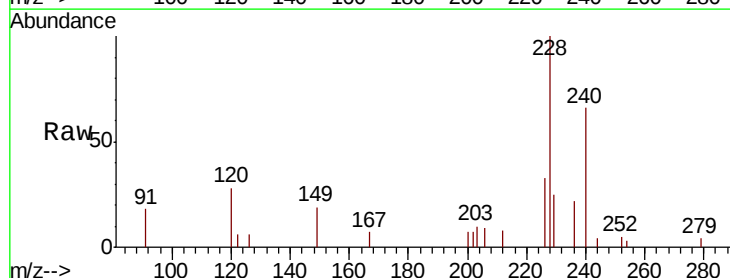
Tgt Ion:228 Resp: 9702

Ion Ratio Lower Upper

228 100

226 32.9 22.1 33.1

229 25.2 15.8 23.6#

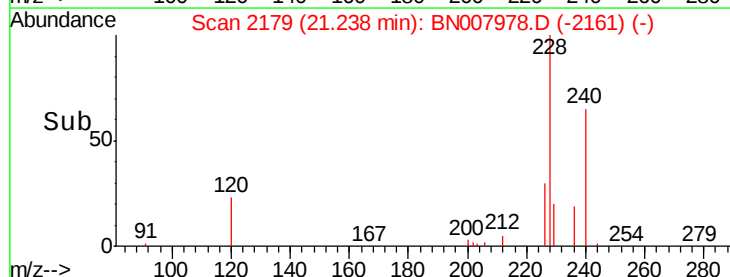
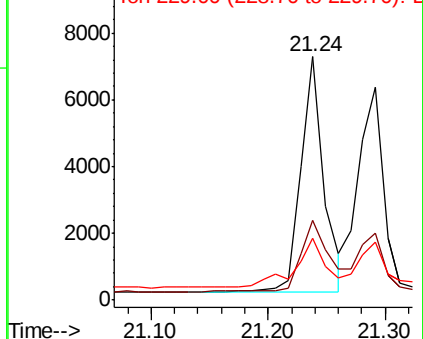


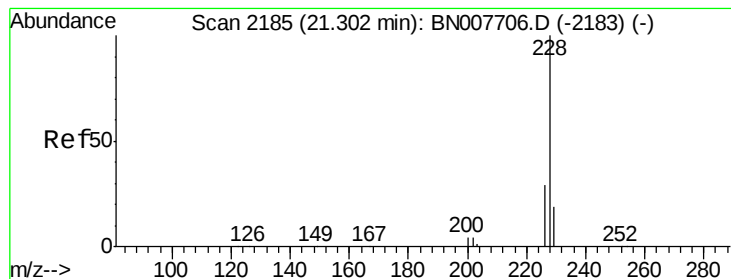
Abundance

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





#31

Chrysene

Concen: 0.077 ng

RT: 21.29 min Scan# 2184

Delta R.T. -0.01 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampleId :

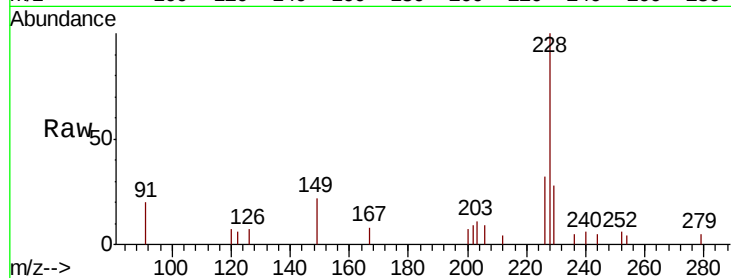
Tot Ion:228 Resp: 8976

Ion Ratio Lower Upper

228 100

226 31.8 23.9 35.9

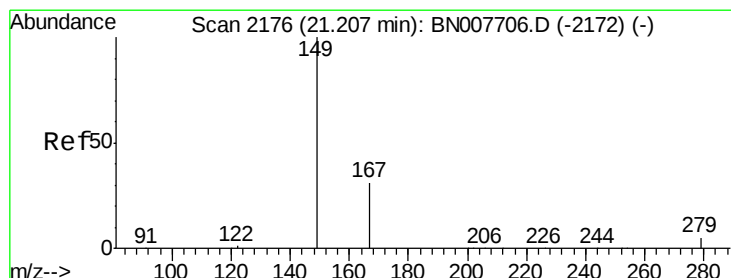
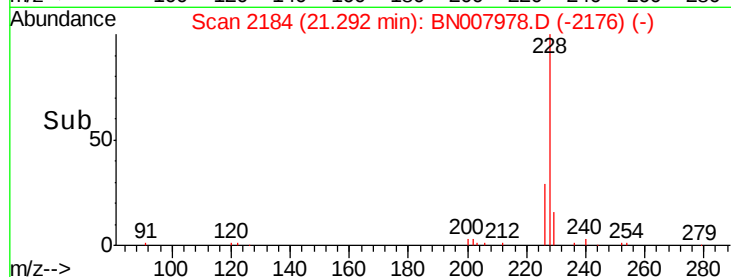
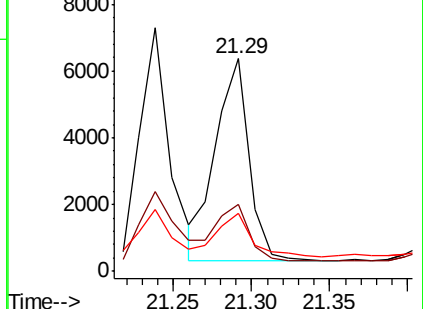
229 27.5 15.8 23.6#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.049 ng

RT: 21.19 min Scan# 2174

Delta R.T. -0.02 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

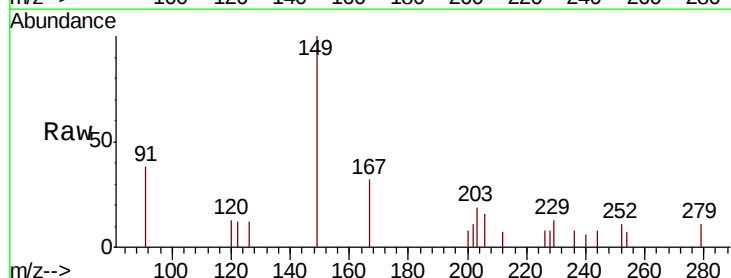
Tgt Ion:149 Resp: 3010

Ion Ratio Lower Upper

149 100

167 26.6 23.7 35.5

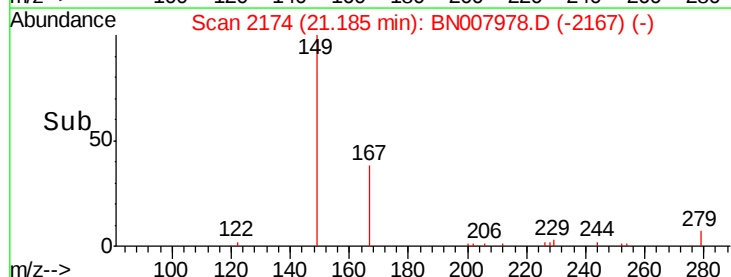
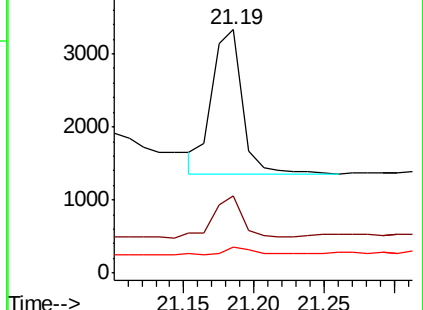
279 5.8 4.2 6.2

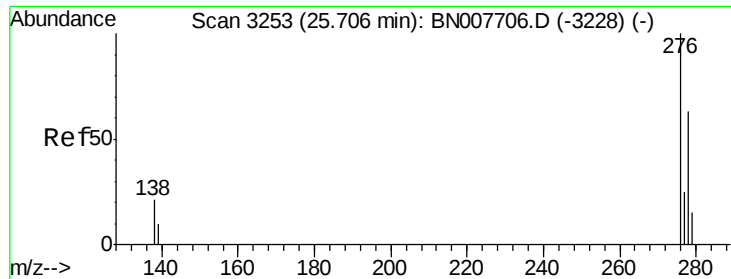


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

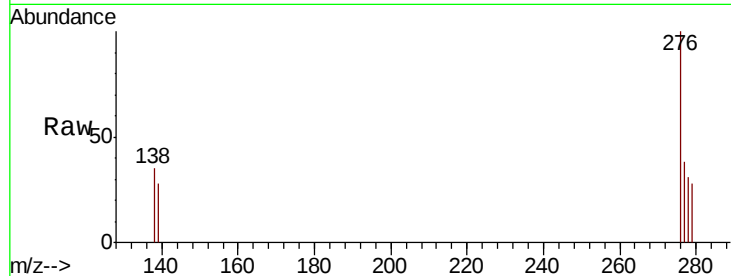




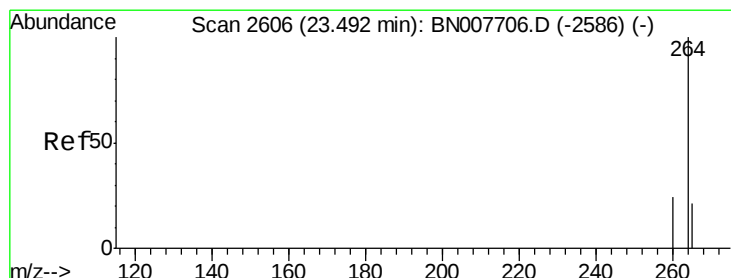
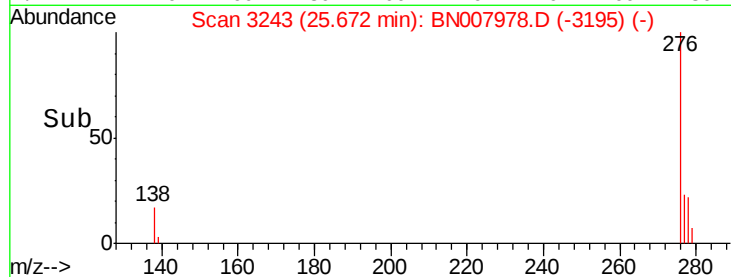
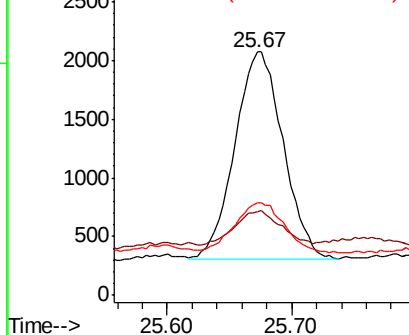
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.032 ng  
RT: 25.67 min Scan# 3243  
Delta R.T. -0.03 min  
Lab File: BN007978.D  
Acq: 02 Oct 2019 22:41

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:276 Resp: 4767  
Ion Ratio Lower Upper  
276 100  
138 17.2 17.1 25.7  
277 24.8 20.0 30.0

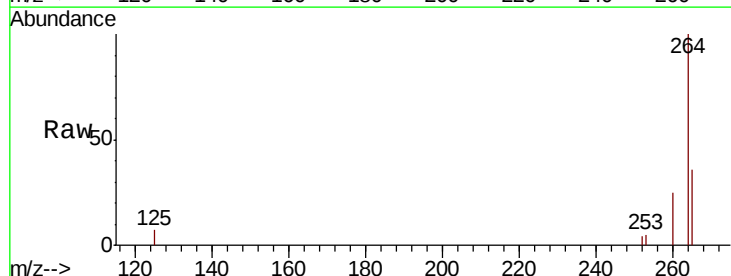


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

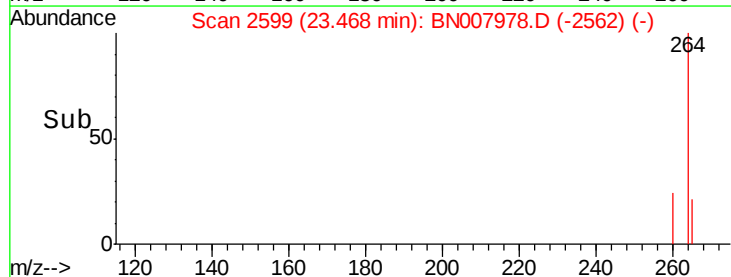
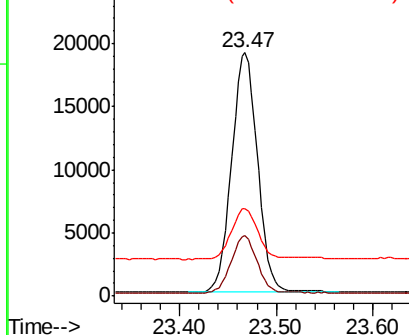


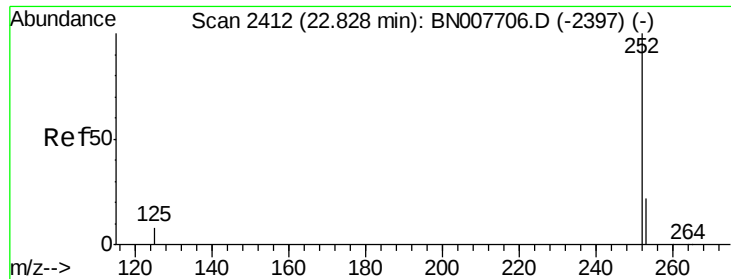
#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.47 min Scan# 2599  
Delta R.T. -0.02 min  
Lab File: BN007978.D  
Acq: 02 Oct 2019 22:41

Tgt Ion:264 Resp: 35481  
Ion Ratio Lower Upper  
264 100  
260 24.6 19.3 28.9  
265 35.9 26.9 40.3



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





#35

Benzo(b)fluoranthene

Concen: 0.088 ng

RT: 22.81 min Scan# 2407

Delta R.T. -0.02 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampleId :

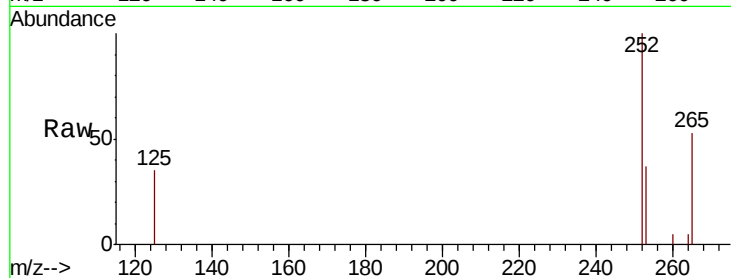
Tot Ion:252 Resp: 10836

Ion Ratio Lower Upper

252 100

253 36.9 18.3 27.5#

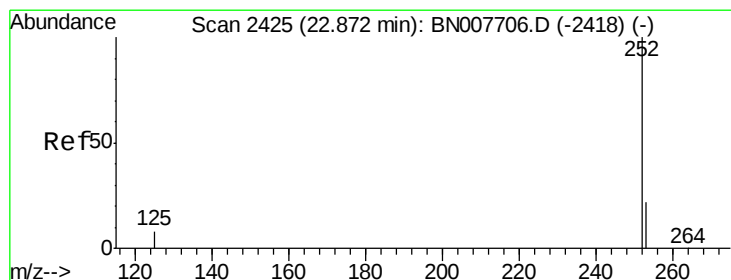
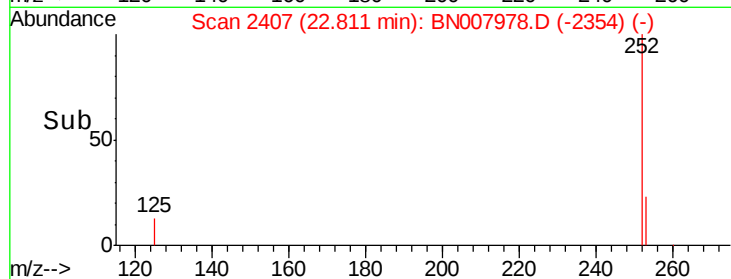
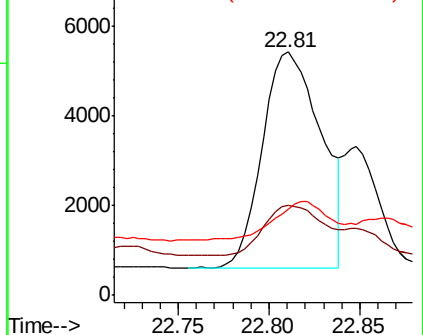
125 35.2 8.2 12.4#



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



#36

Benzo(k)fluoranthene

Concen: 0.089 ng

RT: 22.81 min Scan# 2407

Delta R.T. -0.06 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

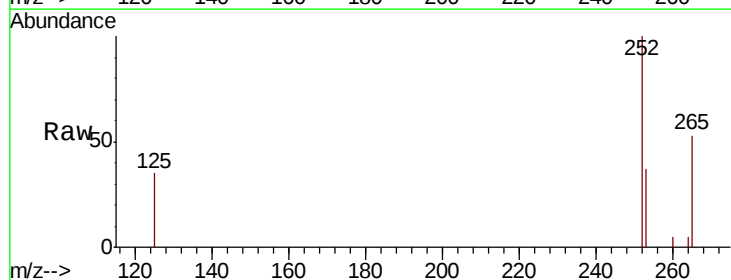
Tgt Ion:252 Resp: 10836

Ion Ratio Lower Upper

252 100

253 36.9 18.5 27.7#

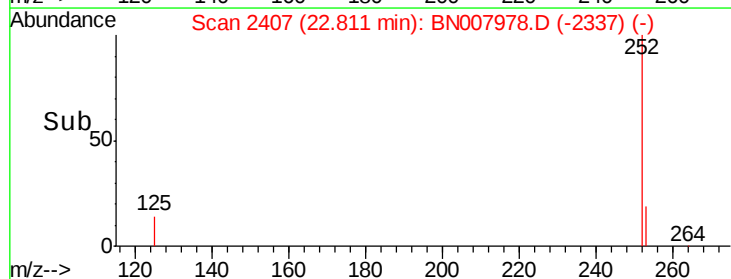
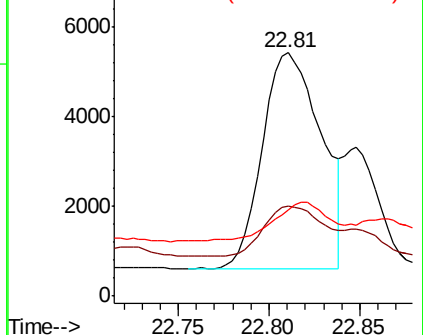
125 35.2 8.4 12.6#

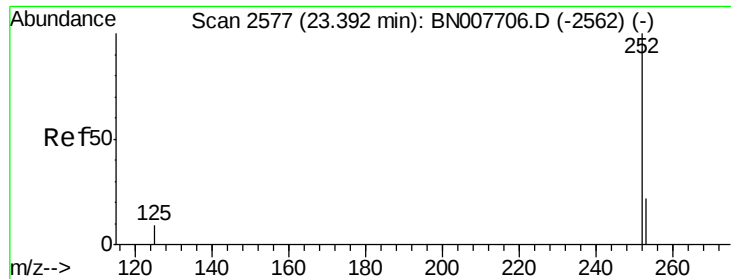


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.062 ng

RT: 23.37 min Scan# 2571

Delta R.T. -0.02 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

Instrument :

BNA\_N

ClientSampled :

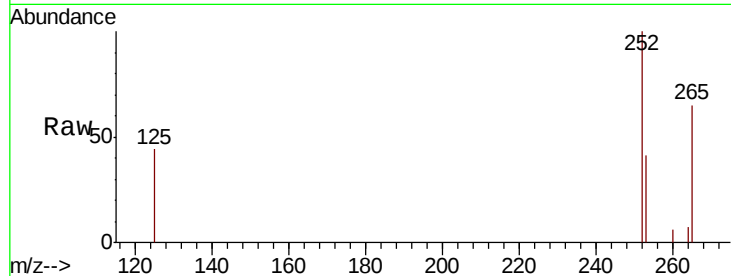
Tot Ion:252 Resp: 7228

Ion Ratio Lower Upper

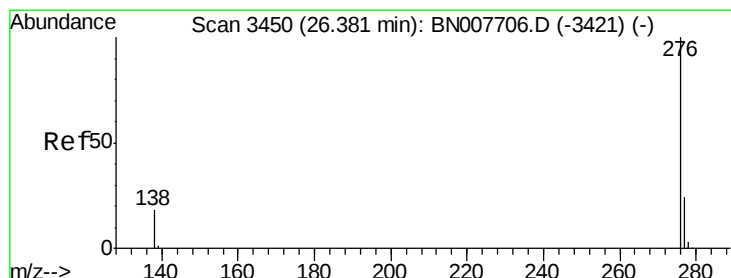
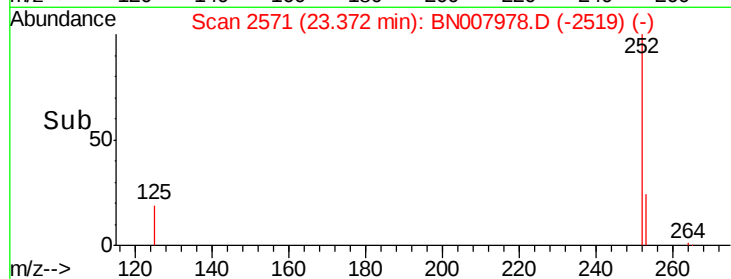
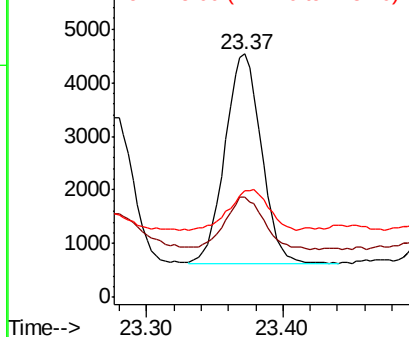
252 100

253 41.2 18.6 27.8#

125 43.7 9.4 14.0#



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



#39

Benzo(g,h,i)perylene

Concen: 0.038 ng

RT: 26.35 min Scan# 3440

Delta R.T. -0.03 min

Lab File: BN007978.D

Acq: 02 Oct 2019 22:41

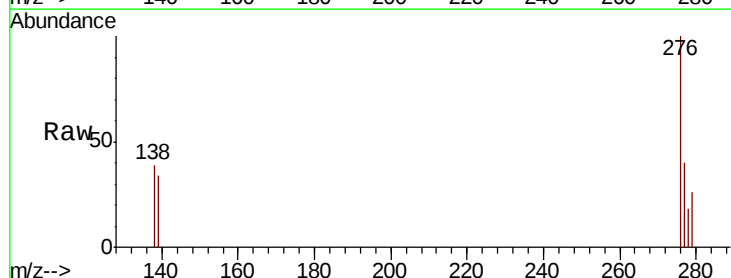
Tgt Ion:276 Resp: 4423

Ion Ratio Lower Upper

276 100

277 39.7 19.8 29.8#

138 39.0 15.1 22.7#



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

