

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032020\  
 Data File : BN010318.D  
 Acq On : 21 Mar 2020 00:31  
 Operator : CG/JU  
 Sample : L1992-03  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Mar 21 01:48:39 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN031920.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 19 15:26:45 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 4640     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.38 | 136  | 16420    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.24 | 164  | 9867     | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 16.99 | 188  | 24101    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.19 | 240  | 26759    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.35 | 264  | 27704    | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.25  | 112  | 1252     | 0.14 | ng    | 0.00     |
| 5) Phenol-d6                | 6.80  | 99   | 929      | 0.08 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.74  | 82   | 5639     | 0.54 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.97 | 152  | 7423     | 0.28 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.73 | 330  | 1129     | 0.30 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.86 | 172  | 21198    | 0.56 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.02 | 212  | 21327    | 0.29 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.63 | 244  | 28006    | 0.48 | ng    | 0.00     |

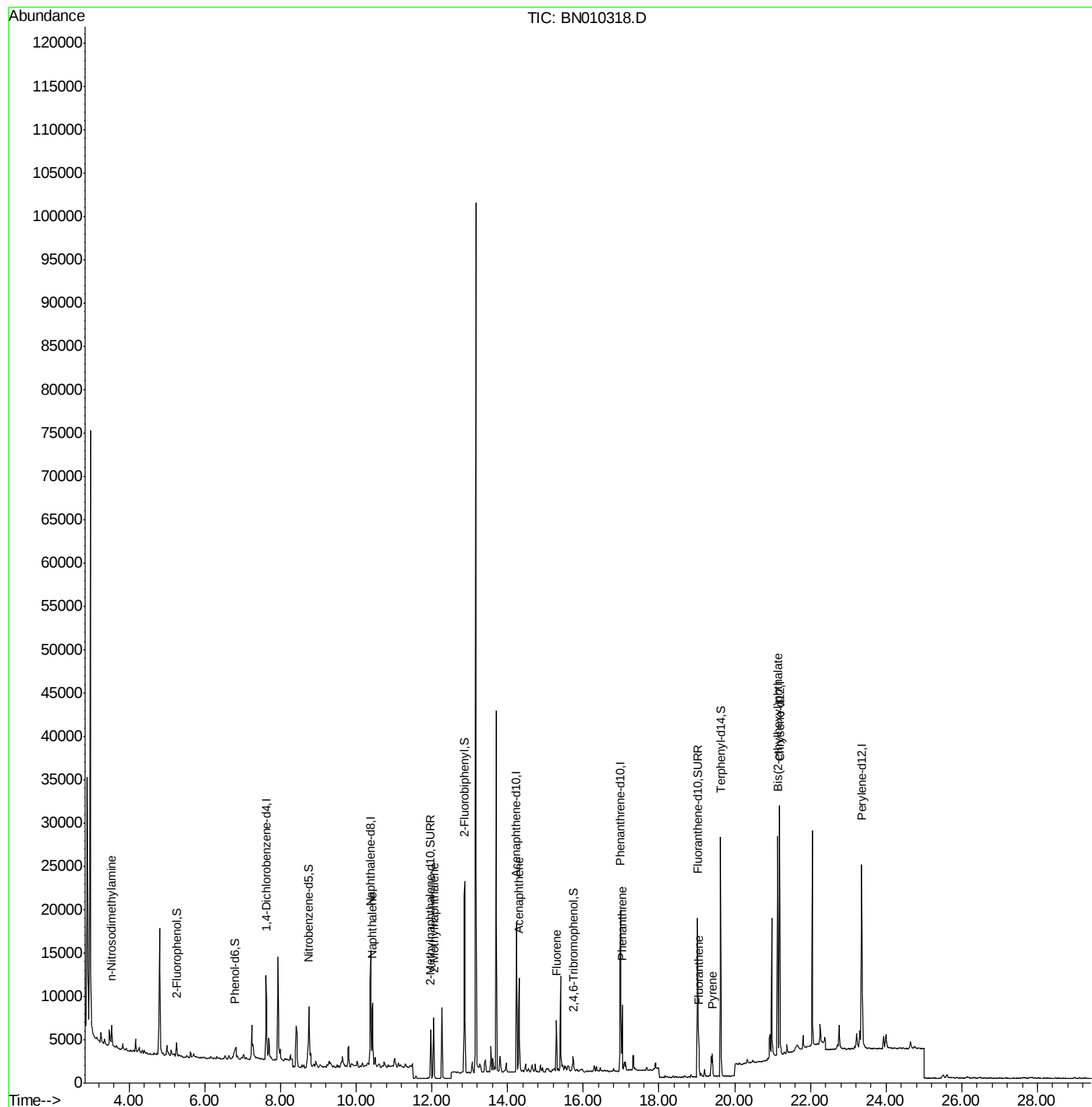
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 3) n-Nitrosodimethylamine      | 3.54  | 42   | 260      | 0.071 | ng    | # 1    |
| 9) Naphthalene                 | 10.43 | 128  | 9855     | 0.241 | ng    | 97     |
| 12) 2-Methylnaphthalene        | 12.05 | 142  | 4927     | 0.174 | ng    | 97     |
| 17) Acenaphthene               | 14.30 | 154  | 4918     | 0.178 | ng    | 97     |
| 18) Fluorene                   | 15.29 | 166  | 3598     | 0.098 | ng    | 96     |
| 23) Phenanthrene               | 17.03 | 178  | 8104     | 0.122 | ng    | 99     |
| 26) Fluoranthene               | 19.05 | 202  | 2439     | 0.030 | ng    | 99     |
| 28) Pyrene                     | 19.41 | 202  | 2509     | 0.030 | ng    | # 94   |
| 32) Bis(2-ethylhexyl)phthalate | 21.13 | 149  | 23270    | 0.809 | ng    | 99     |

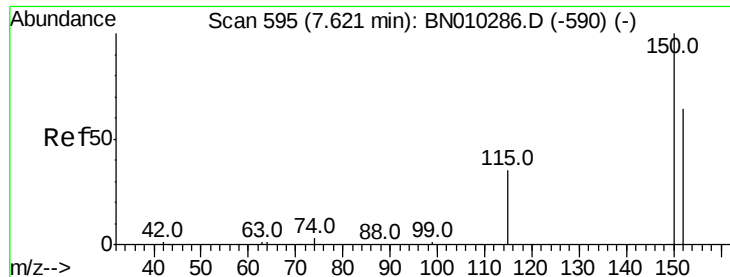
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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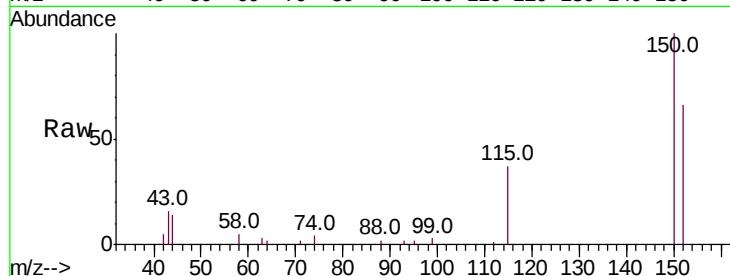


#1

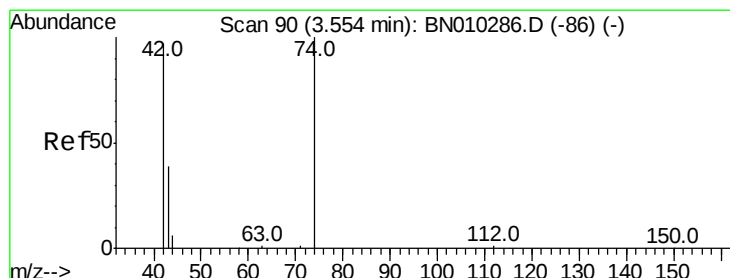
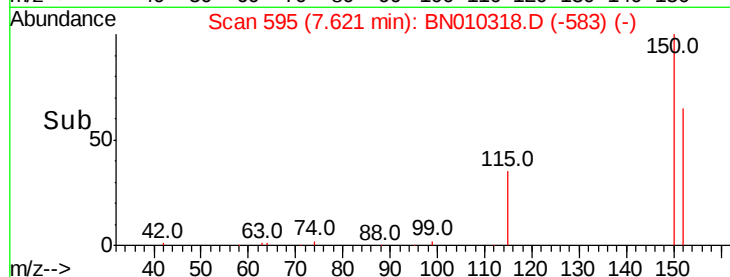
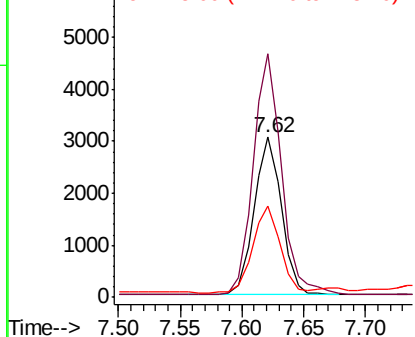
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.62 min Scan# 595  
Delta R.T. -0.00 min  
Lab File: BN010318.D  
Acq: 21 Mar 2020 00:31

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:152 Resp: 4640  
Ion Ratio Lower Upper  
152 100  
150 152.2 123.1 184.7  
115 56.7 45.2 67.8



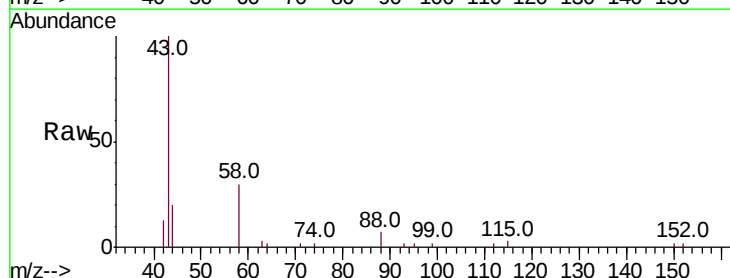
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



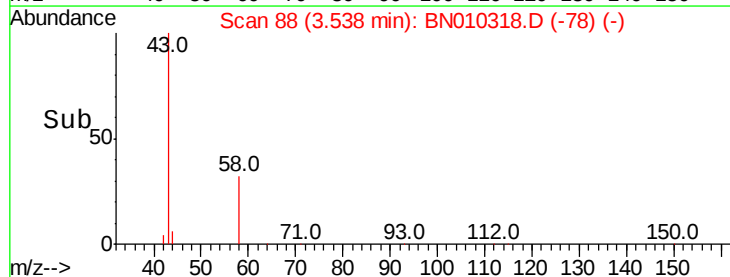
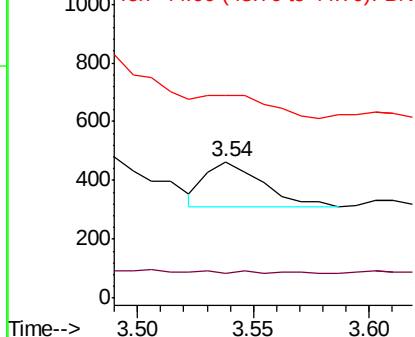
#3

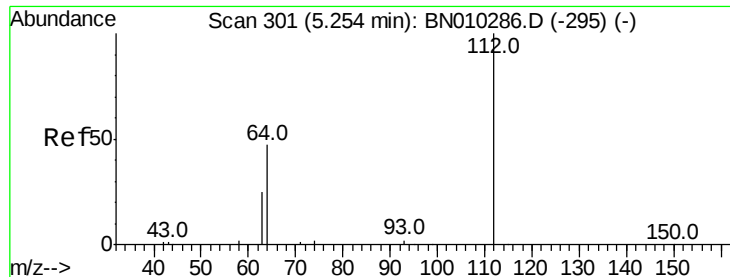
n-Nitrosodimethylamine  
Concen: 0.071 ng  
RT: 3.54 min Scan# 88  
Delta R.T. -0.02 min  
Lab File: BN010318.D  
Acq: 21 Mar 2020 00:31

Tgt Ion: 42 Resp: 260  
Ion Ratio Lower Upper  
42 100  
74 1.9 99.4 149.0#  
44 0.0 4.8 7.2#



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: 0.136 ng

RT: 5.25 min Scan# 301

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampleId :

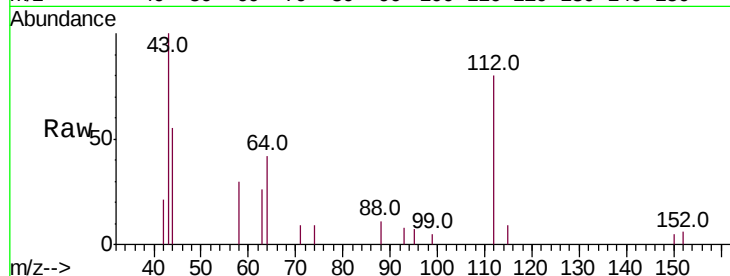
Tot Ion:112 Resp: 1252

Ion Ratio Lower Upper

112 100

64 48.5 41.4 62.2

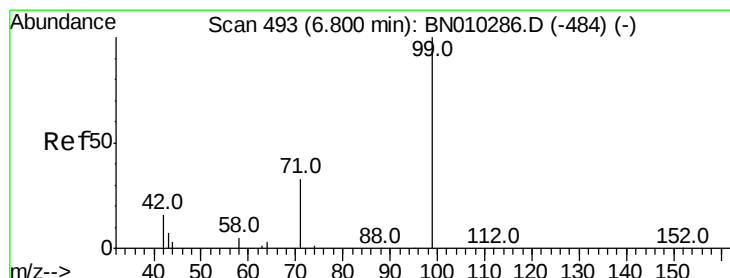
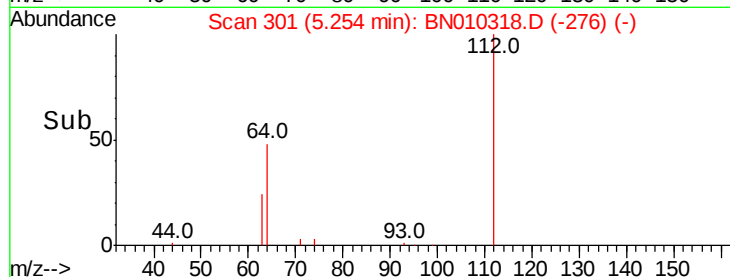
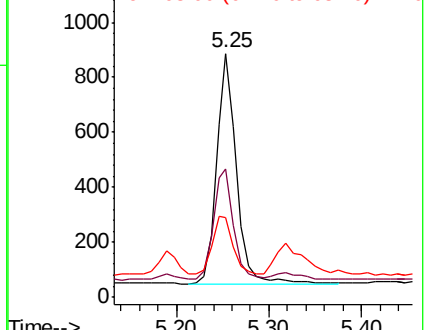
63 27.3 22.9 34.3



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BNO

Ion 63.00 (62.70 to 63.70): BNO



#5

Phenol-d6

Concen: 0.081 ng

RT: 6.80 min Scan# 493

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

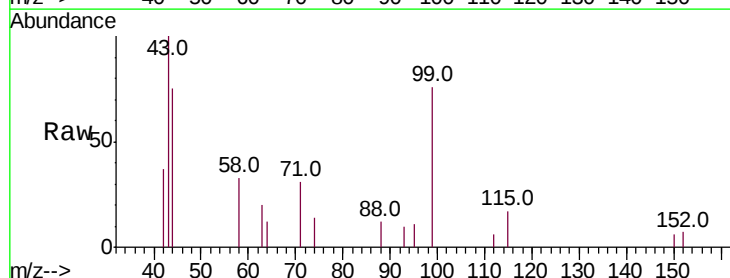
Tgt Ion: 99 Resp: 929

Ion Ratio Lower Upper

99 100

42 31.9 14.8 22.2#

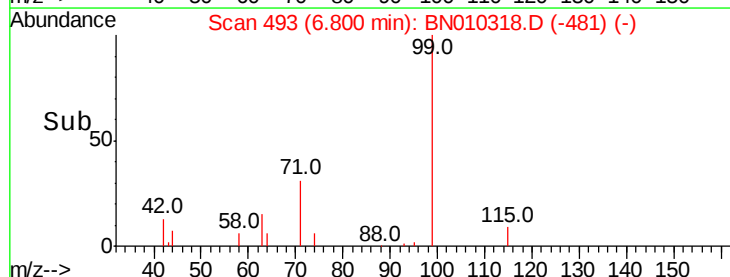
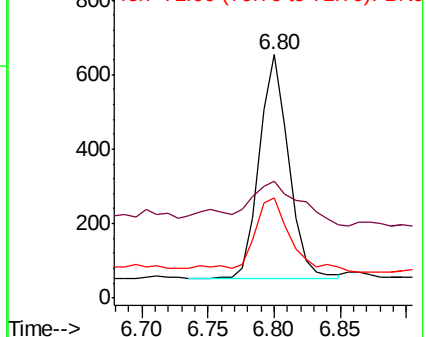
71 40.3 27.3 40.9

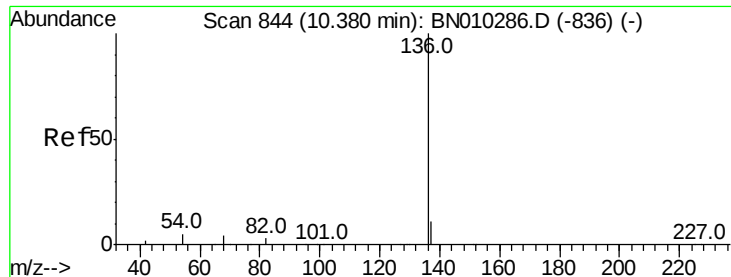


Abundance Ion 99.00 (98.70 to 99.70): BNO

Ion 42.00 (41.70 to 42.70): BNO

Ion 71.00 (70.70 to 71.70): BNO





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.38 min Scan# 844

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampleId :

Tot Ion:136 Resp: 16420

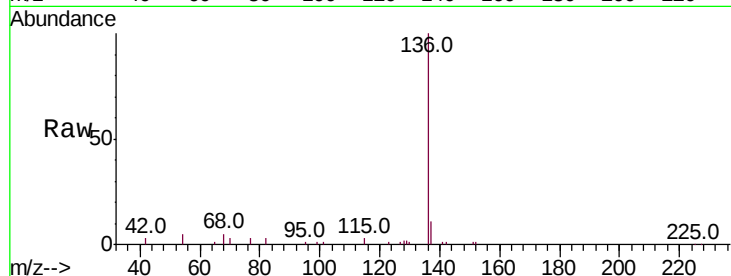
Ion Ratio Lower Upper

136 100

137 11.1 9.3 13.9

54 4.9 4.8 7.2

68 4.6 4.1 6.1

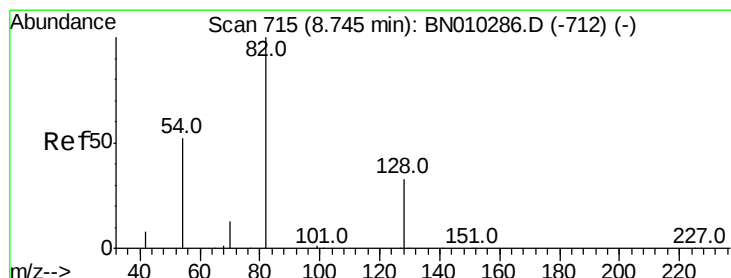
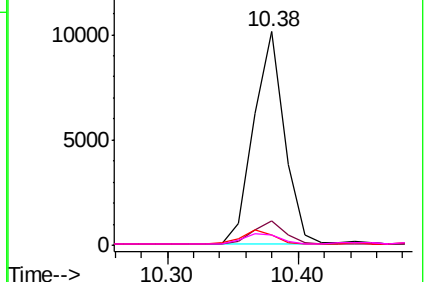
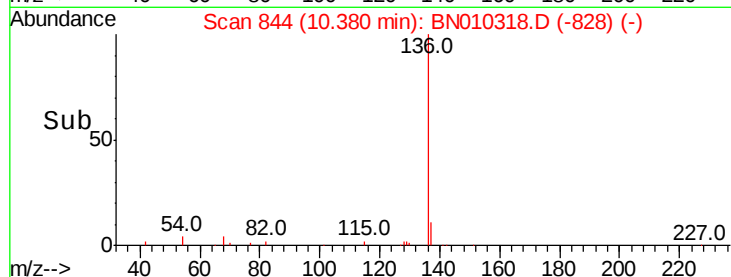


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.536 ng

RT: 8.74 min Scan# 715

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

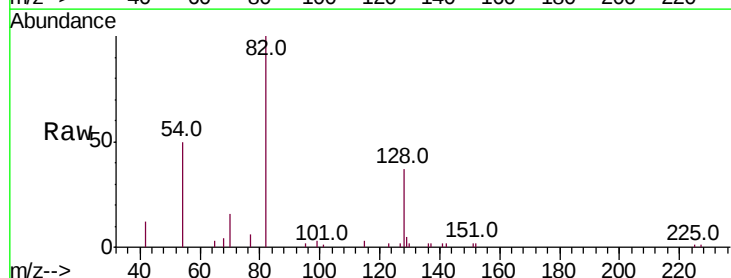
Tgt Ion: 82 Resp: 5639

Ion Ratio Lower Upper

82 100

128 37.1 28.8 43.2

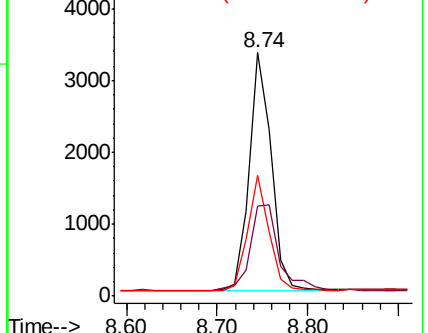
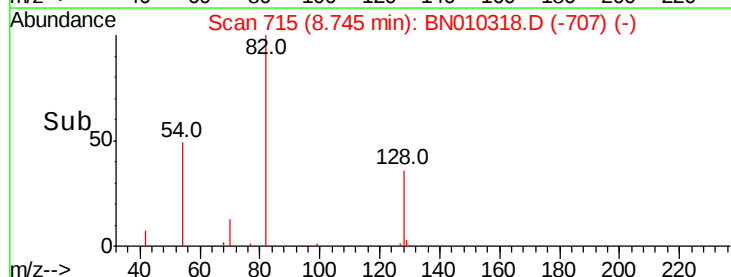
54 49.8 42.1 63.1

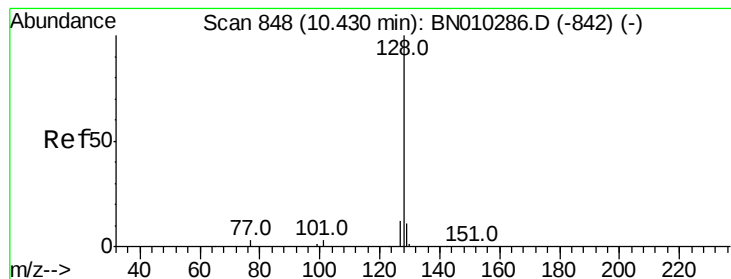


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.241 ng

RT: 10.43 min Scan# 848

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampleId :

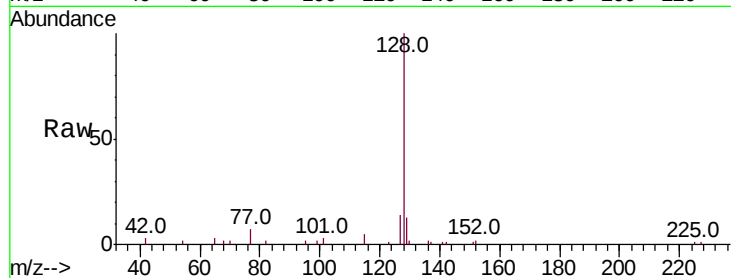
Tot Ion:128 Resp: 9855

Ion Ratio Lower Upper

128 100

129 13.0 9.1 13.7

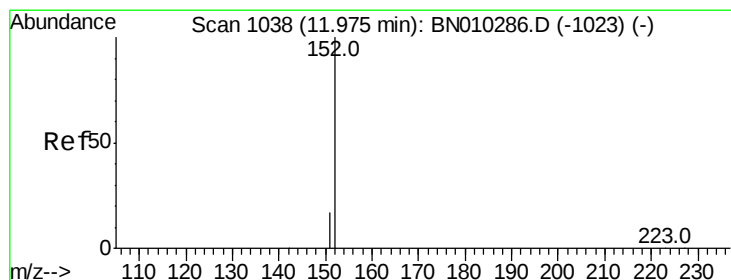
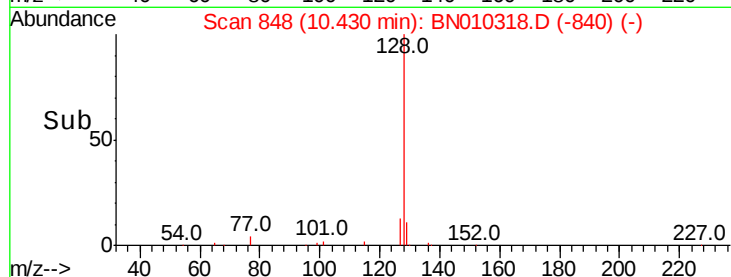
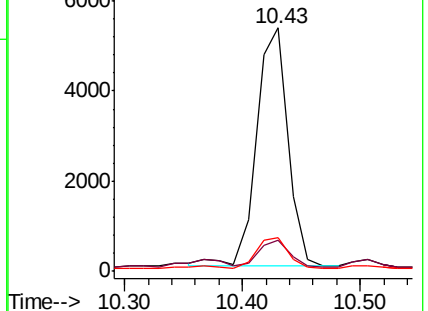
127 13.9 10.4 15.6



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: 0.283 ng

RT: 11.97 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BN010318.D

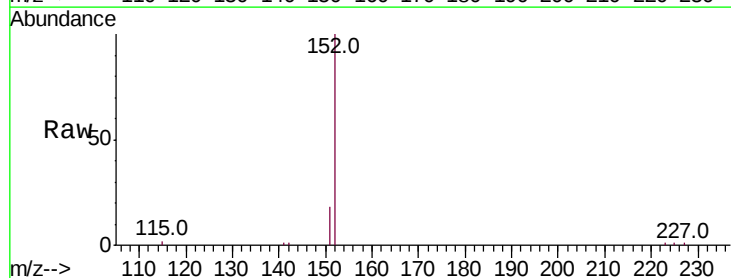
Acq: 21 Mar 2020 00:31

Tgt Ion:152 Resp: 7423

Ion Ratio Lower Upper

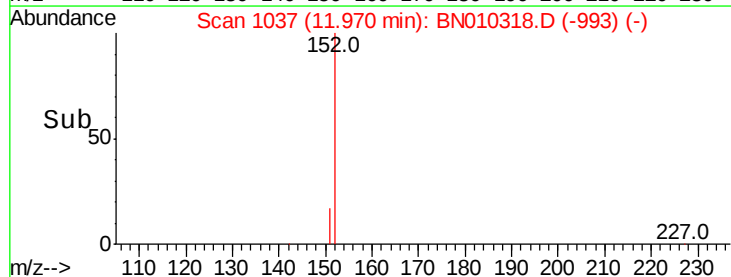
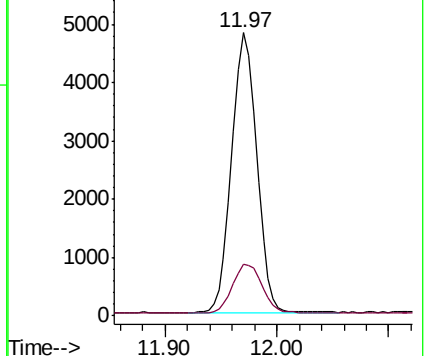
152 100

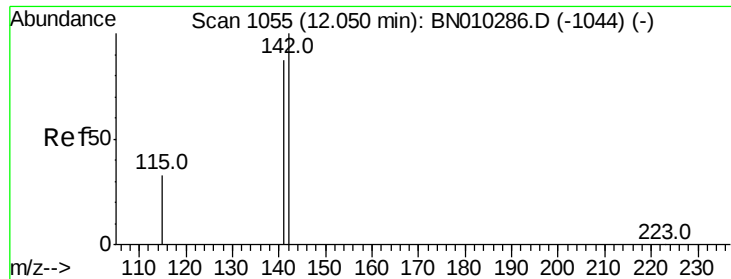
151 20.4 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

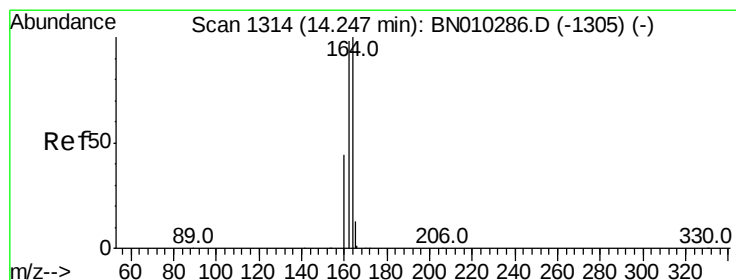
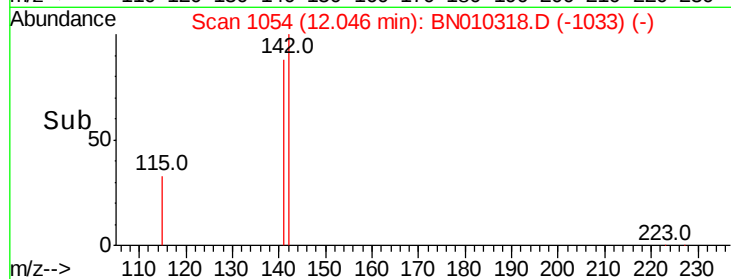
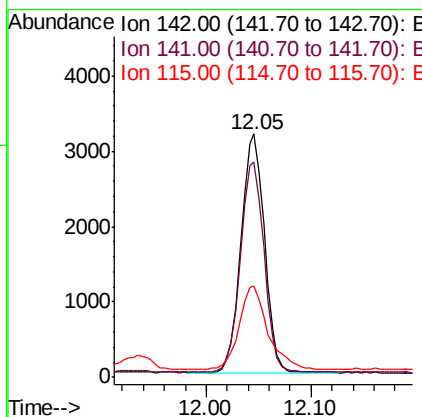
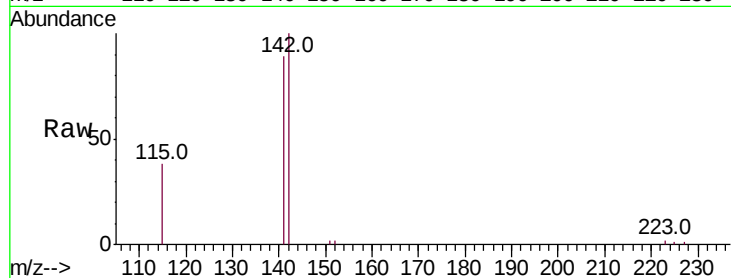




#12  
2-Methylnaphthalene  
Concen: 0.174 ng  
RT: 12.05 min Scan# 1054  
Delta R.T. -0.00 min  
Lab File: BN010318.D  
Acq: 21 Mar 2020 00:31

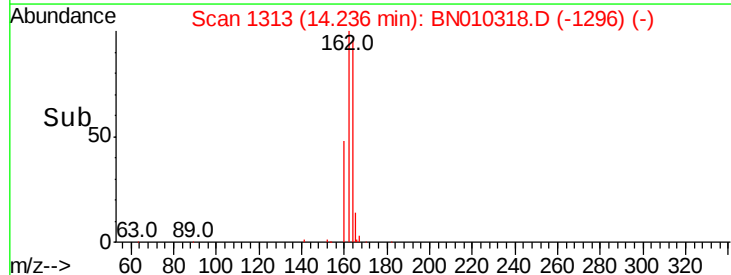
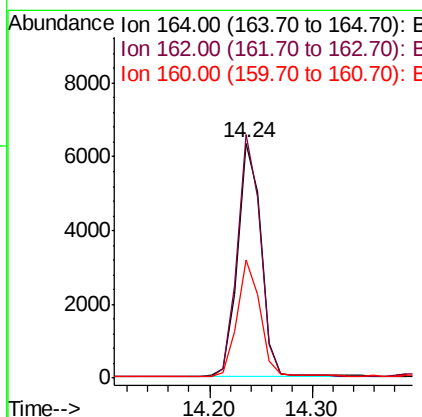
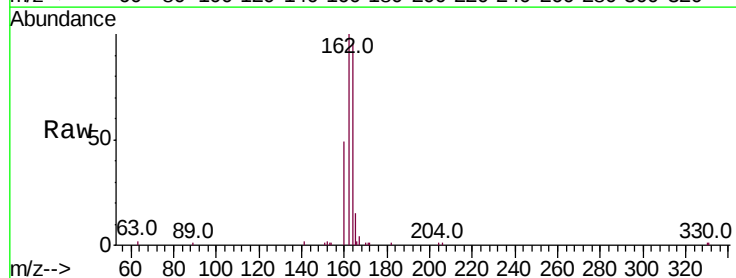
Instrument :  
BNA\_N  
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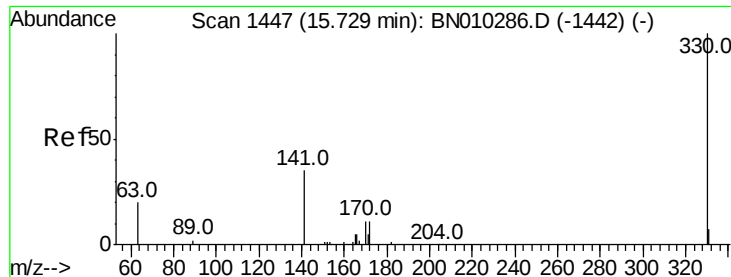
Tot Ion:142 Resp: 4927  
Ion Ratio Lower Upper  
142 100  
141 88.6 69.5 104.3  
115 37.5 27.5 41.3



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.24 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BN010318.D  
Acq: 21 Mar 2020 00:31

Tgt Ion:164 Resp: 9867  
Ion Ratio Lower Upper  
164 100  
162 103.8 78.2 117.2  
160 50.5 35.8 53.6

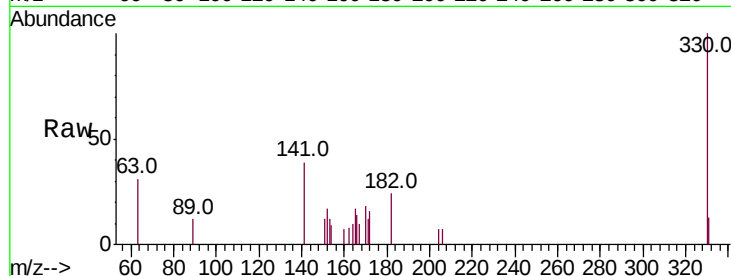




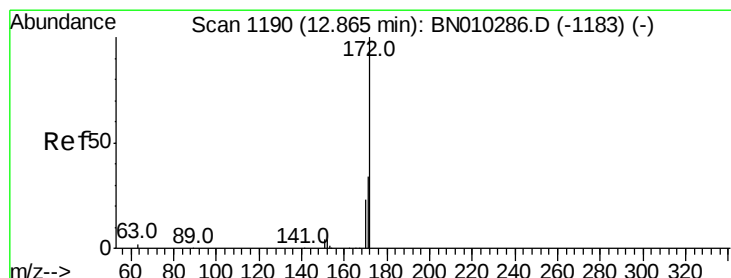
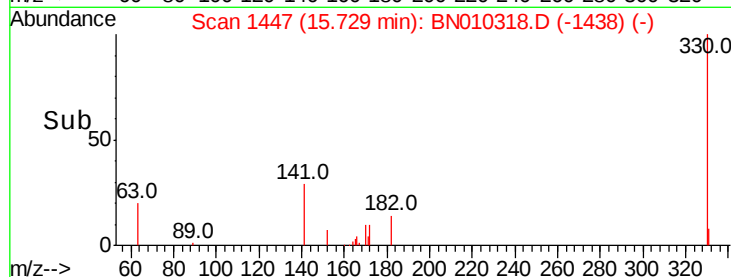
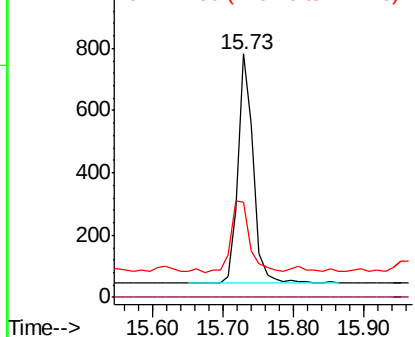
#14  
 2,4,6-Tribromophenol  
 Concen: 0.298 ng  
 RT: 15.73 min Scan# 1447  
 Delta R.T. -0.00 min  
 Lab File: BN010318.D  
 Acq: 21 Mar 2020 00:31

Instrument :  
 BNA\_N  
 ClientSampled :

Tot Ion:330 Resp: 1129  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 0.0 0.0  
 141 38.4 29.3 43.9

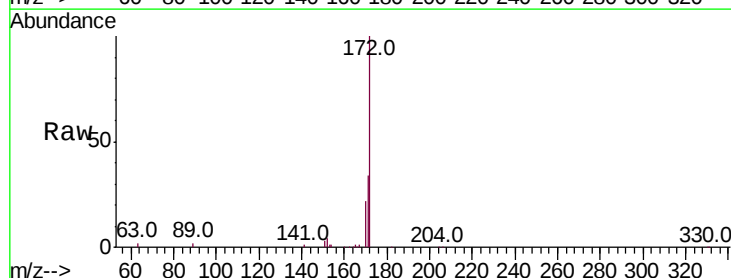


Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

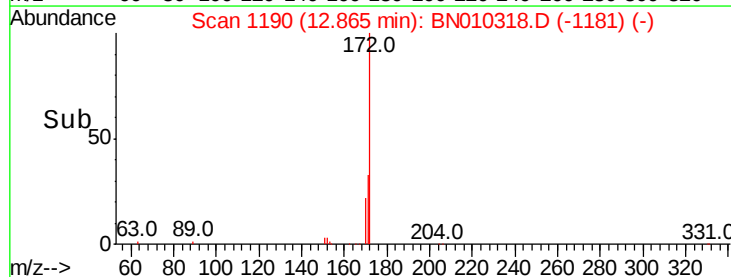
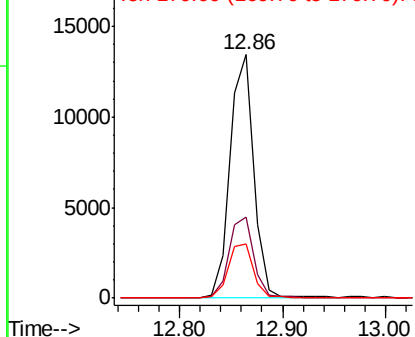


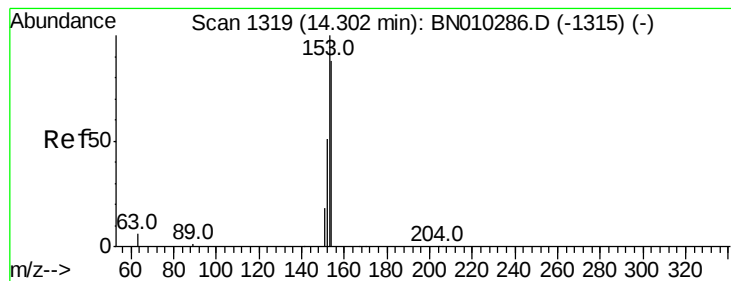
#15  
 2-Fluorobiphenyl  
 Concen: 0.561 ng  
 RT: 12.86 min Scan# 1190  
 Delta R.T. -0.00 min  
 Lab File: BN010318.D  
 Acq: 21 Mar 2020 00:31

Tgt Ion:172 Resp: 21198  
 Ion Ratio Lower Upper  
 172 100  
 171 33.6 27.6 41.4  
 170 22.1 18.5 27.7



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





#17

Acenaphthene

Concen: 0.178 ng

RT: 14.30 min Scan# 1319

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampled :

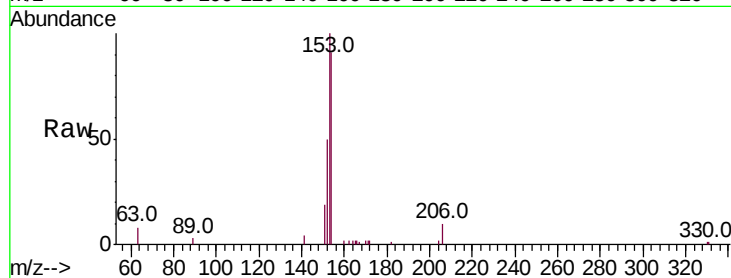
Tot Ion:154 Resp: 4918

Ion Ratio Lower Upper

154 100

153 114.1 88.1 132.1

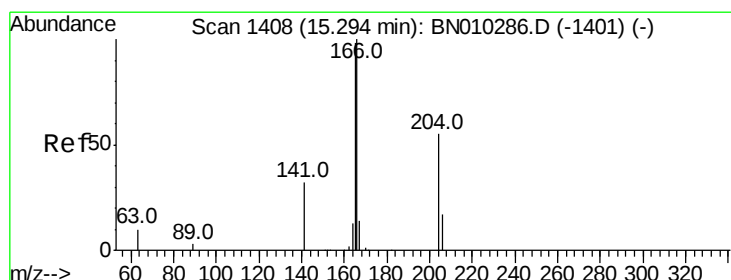
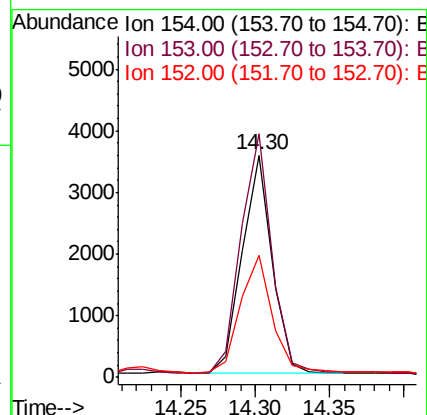
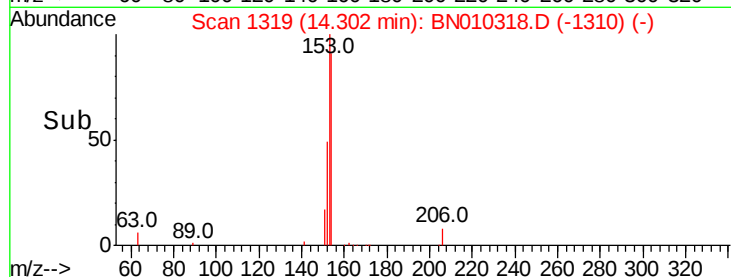
152 58.4 45.5 68.3



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: 0.098 ng

RT: 15.29 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

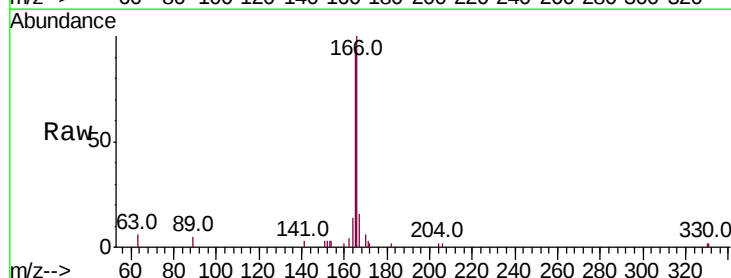
Tgt Ion:166 Resp: 3598

Ion Ratio Lower Upper

166 100

165 94.1 78.7 118.1

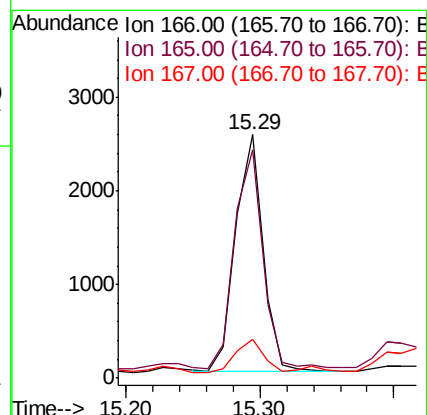
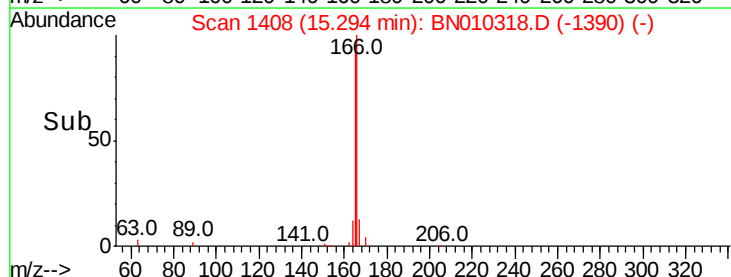
167 14.6 11.0 16.4

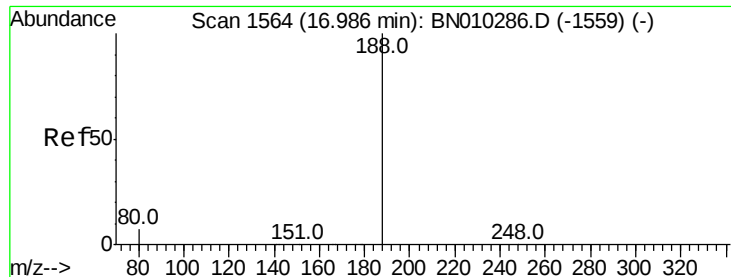


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.99 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampleId :

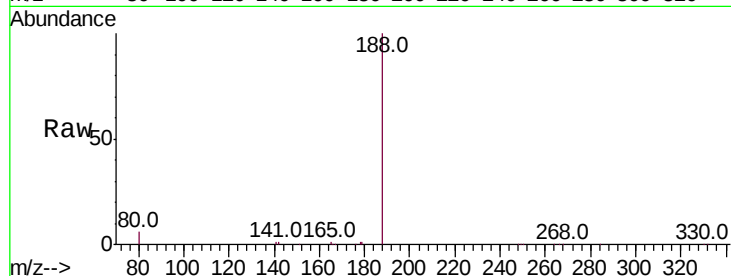
Tot Ion:188 Resp: 24101

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

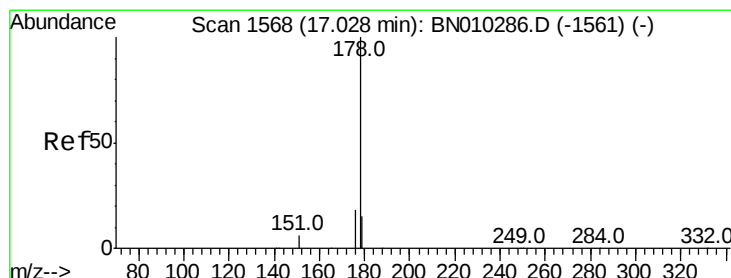
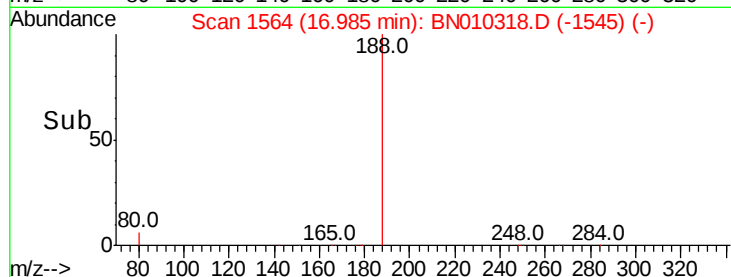
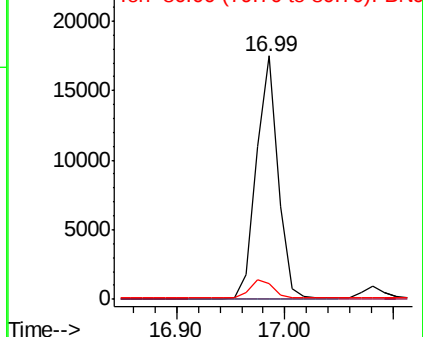
80 6.4 6.0 9.0



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: 0.122 ng

RT: 17.03 min Scan# 1568

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

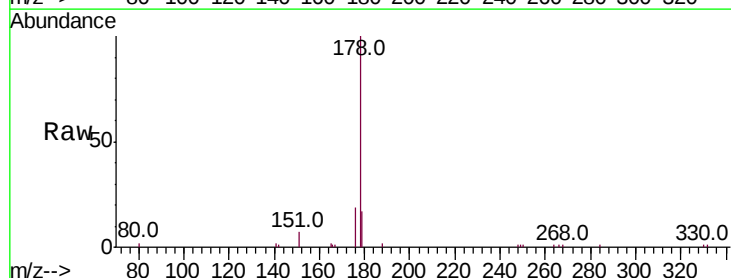
Tgt Ion:178 Resp: 8104

Ion Ratio Lower Upper

178 100

176 19.1 15.0 22.4

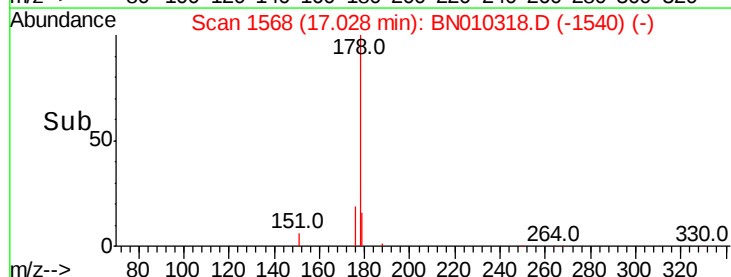
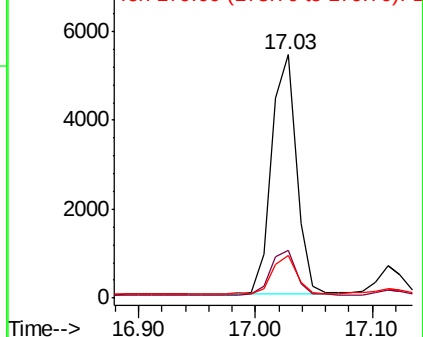
179 16.4 12.4 18.6

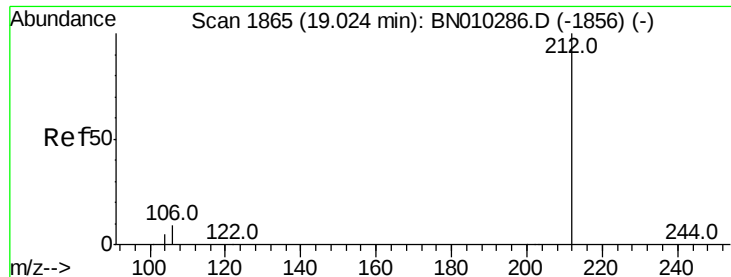


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.293 ng

RT: 19.02 min Scan# 1864

Delta R.T. -0.01 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampleId :

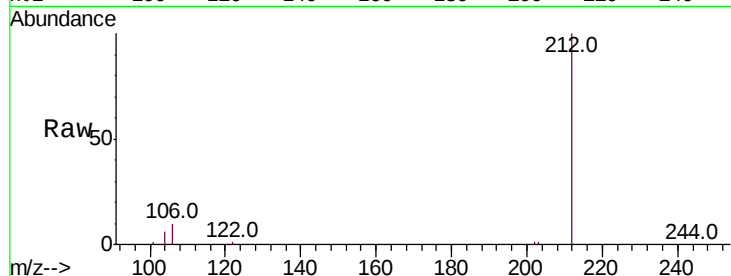
Tot Ion:212 Resp: 21327

Ion Ratio Lower Upper

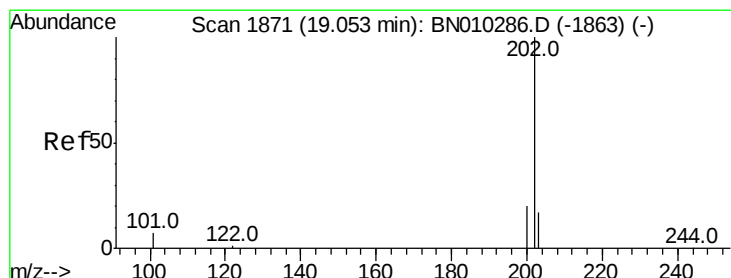
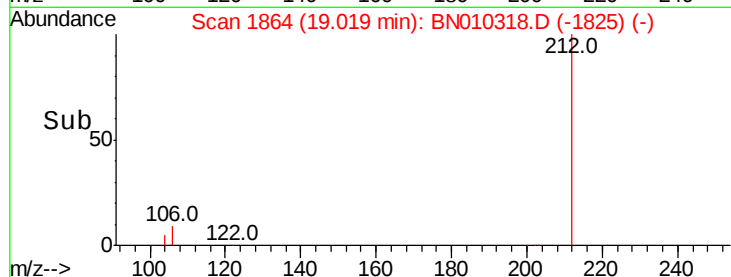
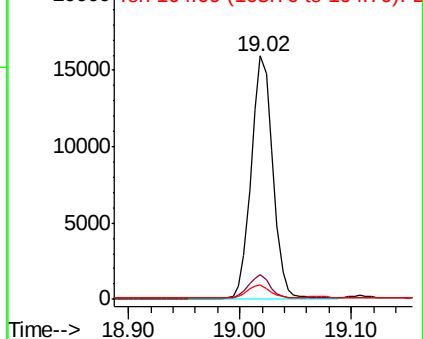
212 100

106 9.7 7.4 11.2

104 5.4 4.2 6.4



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: 0.030 ng

RT: 19.05 min Scan# 1870

Delta R.T. -0.01 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

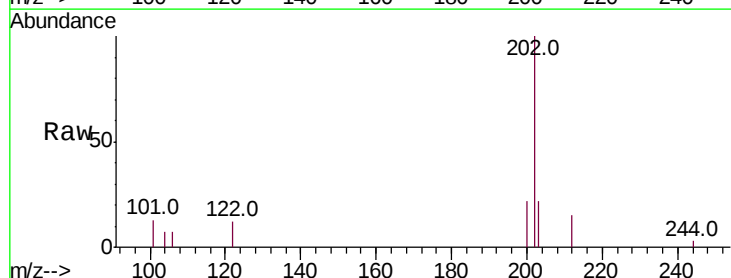
Tgt Ion:202 Resp: 2439

Ion Ratio Lower Upper

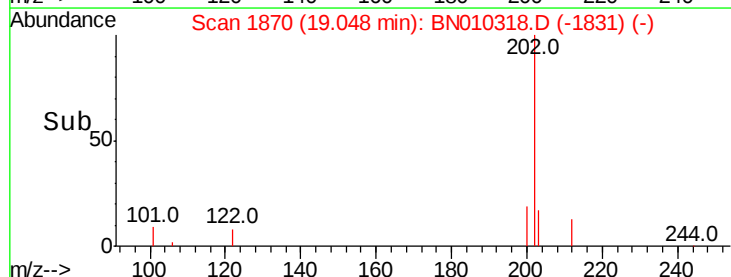
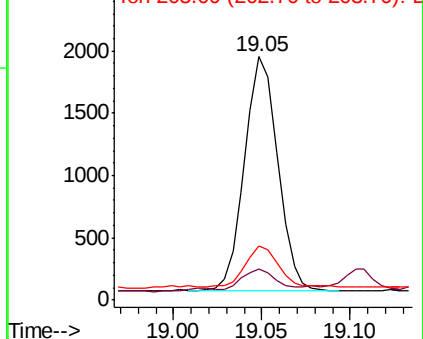
202 100

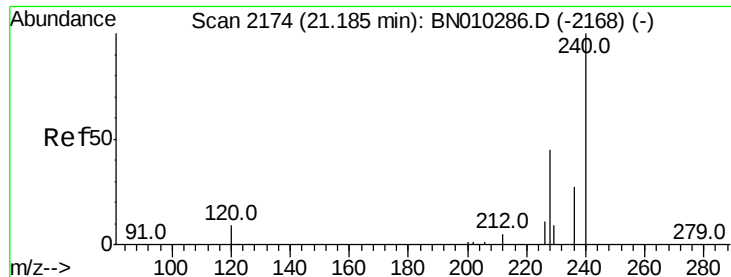
101 8.7 6.6 9.8

203 17.2 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

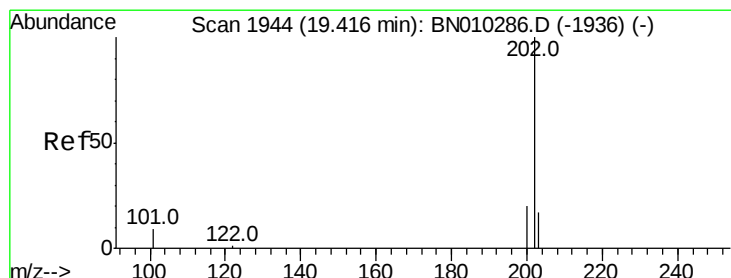
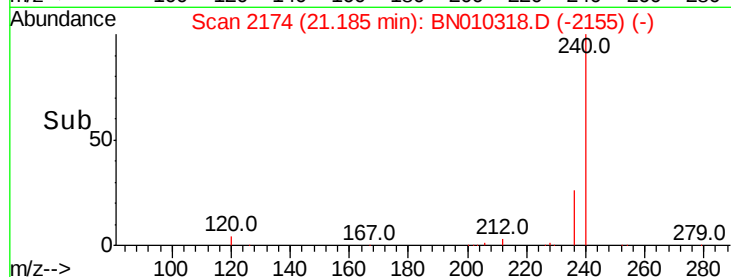
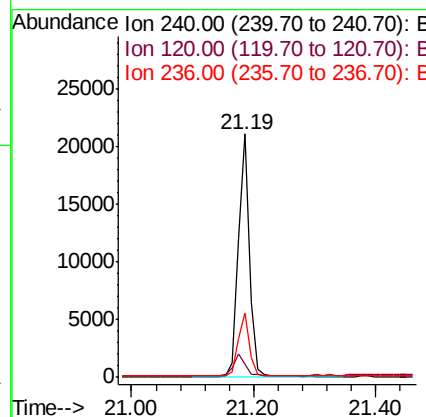
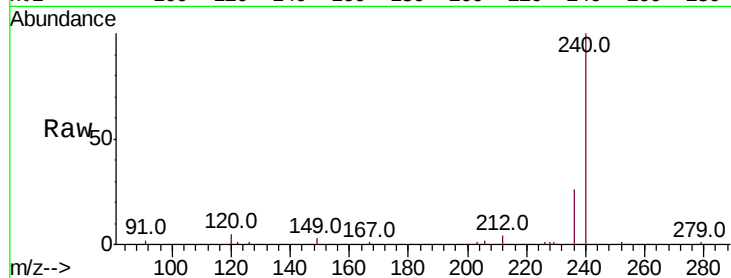




#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.19 min Scan# 2174  
Delta R.T. -0.00 min  
Lab File: BN010318.D  
Acq: 21 Mar 2020 00:31

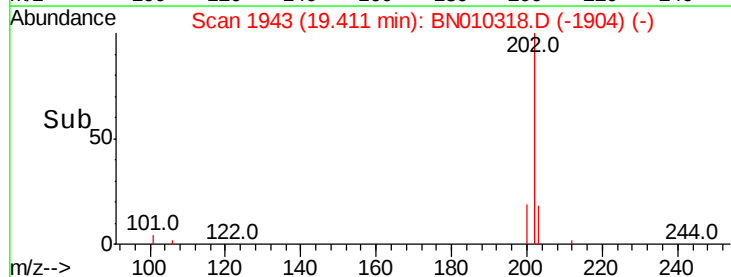
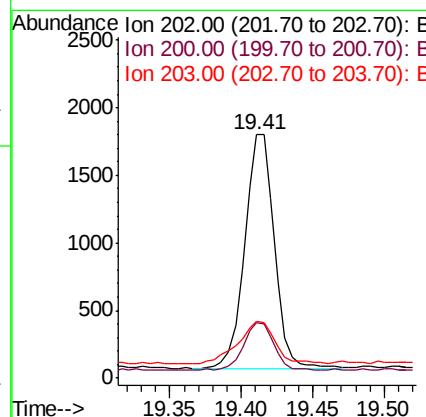
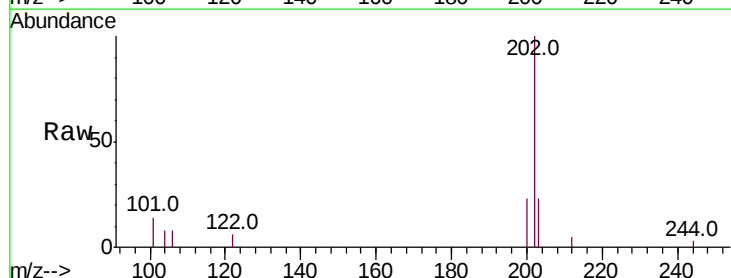
Instrument :  
BNA\_N  
ClientSampled :

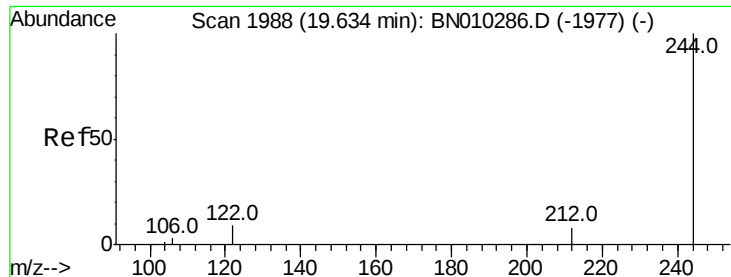
Tot Ion:240 Resp: 26759  
Ion Ratio Lower Upper  
240 100  
120 5.4 7.9 11.9#  
236 26.2 22.2 33.4



#28  
Pyrene  
Concen: 0.030 ng  
RT: 19.41 min Scan# 1943  
Delta R.T. -0.01 min  
Lab File: BN010318.D  
Acq: 21 Mar 2020 00:31

Tgt Ion:202 Resp: 2509  
Ion Ratio Lower Upper  
202 100  
200 20.3 16.2 24.4  
203 23.5 14.2 21.2#





#29

Terphenyl-d14

Concen: 0.484 ng

RT: 19.63 min Scan# 1987

Delta R.T. -0.01 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampleId :

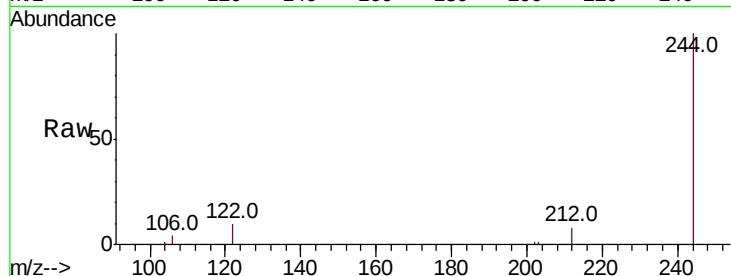
Tot Ion:244 Resp: 28006

Ion Ratio Lower Upper

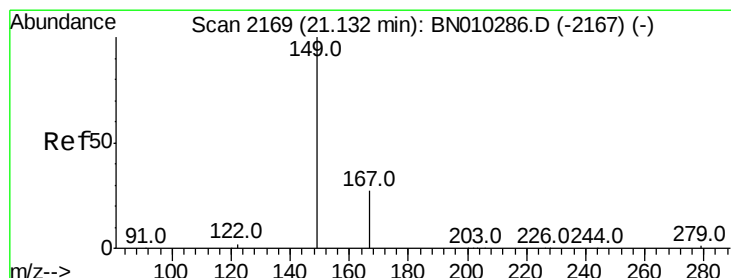
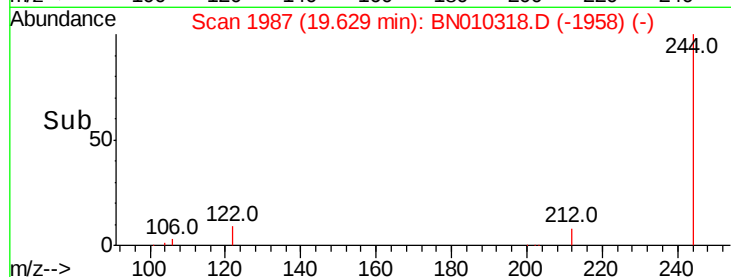
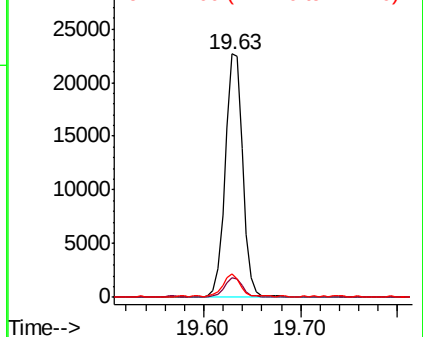
244 100

212 8.2 6.3 9.5

122 9.5 7.6 11.4



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.809 ng

RT: 21.13 min Scan# 2169

Delta R.T. -0.00 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

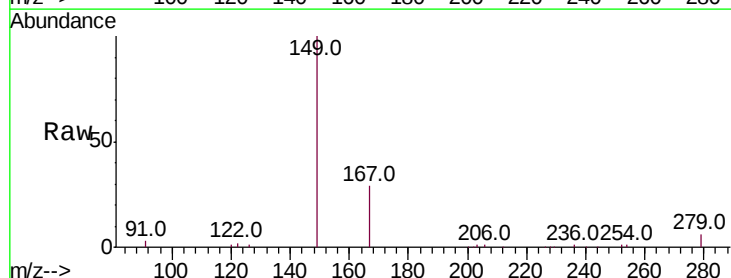
Tgt Ion:149 Resp: 23270

Ion Ratio Lower Upper

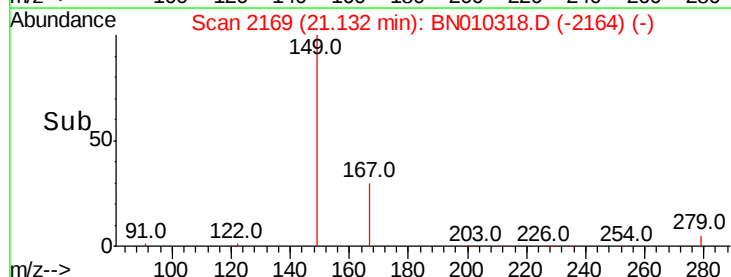
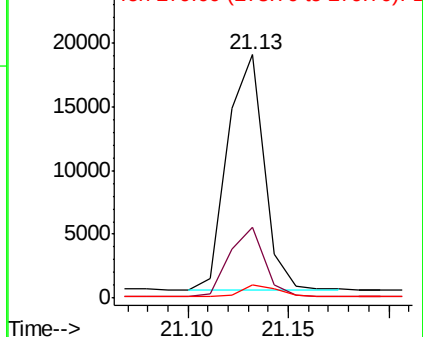
149 100

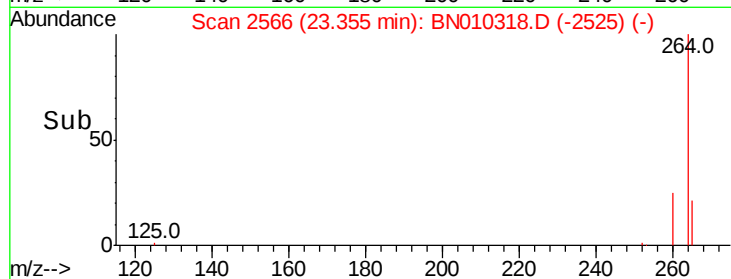
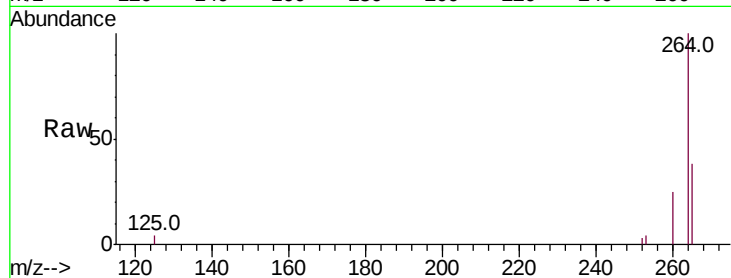
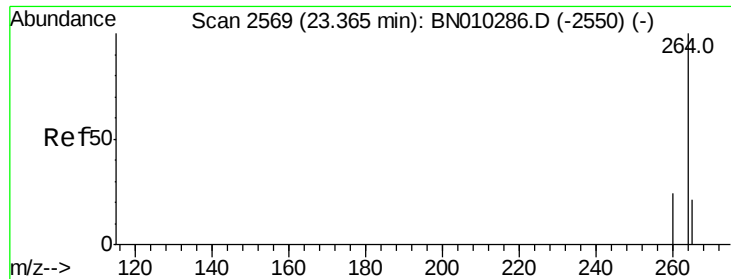
167 28.5 23.0 34.6

279 5.0 3.8 5.8



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





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.35 min Scan# 2566

Delta R.T. -0.01 min

Lab File: BN010318.D

Acq: 21 Mar 2020 00:31

Instrument :

BNA\_N

ClientSampleId :

Tot Ion:264 Resp: 27704

Ion Ratio Lower Upper

264 100

260 24.7 19.5 29.3

265 37.9 32.4 48.6

