

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\  
 Data File : BN007126.D  
 Acq On : 13 Aug 2019 11:43  
 Operator : HP/JU  
 Sample : K4240-09  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Aug 13 12:58:40 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 13 12:12:02 2019  
 Response via : Initial Calibration

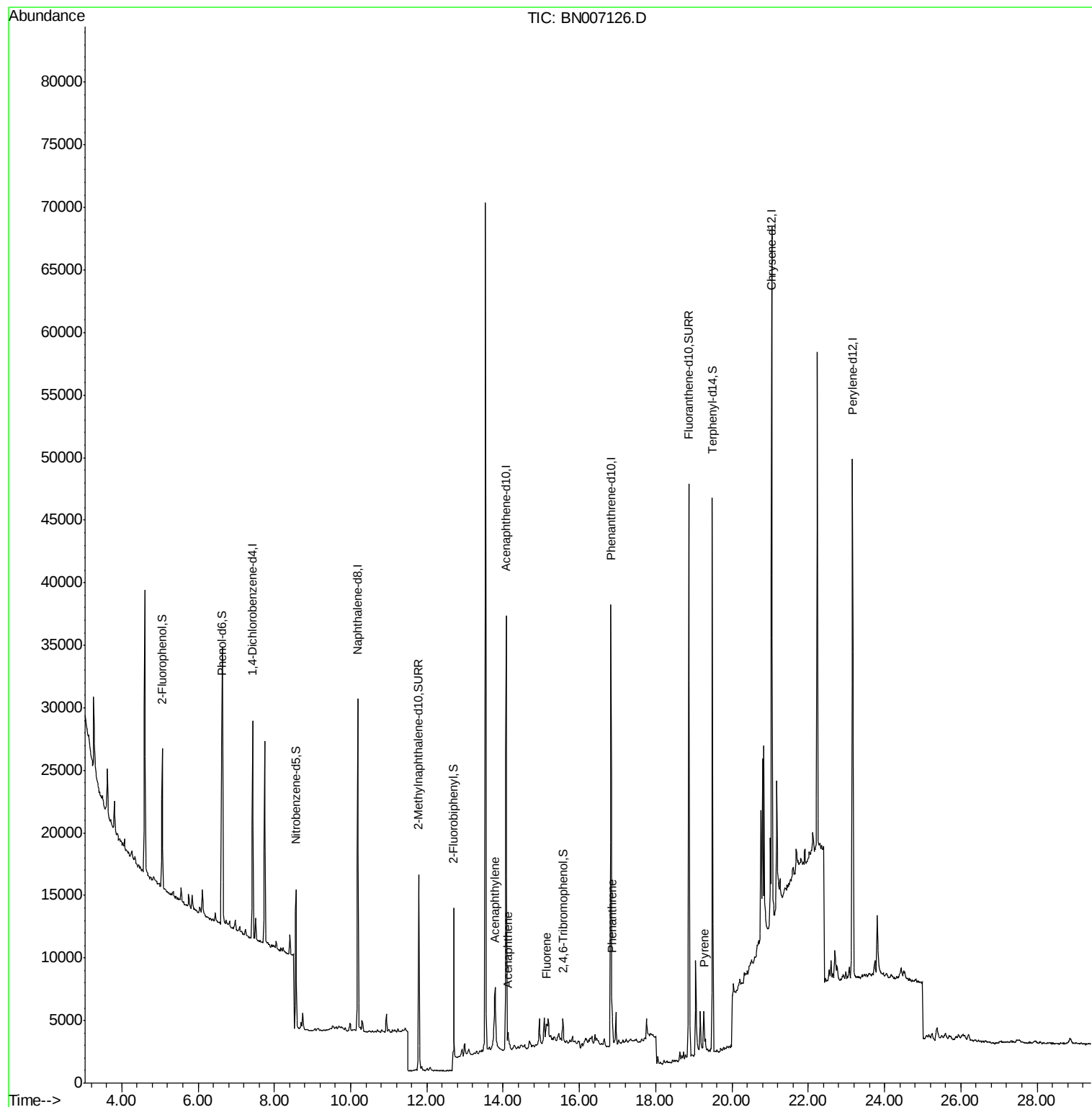
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.43  | 152  | 8888     | 0.40  | ng    | 0.00      |
| 6) Naphthalene-d8           | 10.19 | 136  | 34549    | 0.40  | ng    | 0.00      |
| 12) Acenaphthene-d10        | 14.08 | 164  | 19716    | 0.40  | ng    | 0.00      |
| 18) Phenanthrene-d10        | 16.82 | 188  | 46050    | 0.40  | ng    | 0.00      |
| 26) Chrysene-d12            | 21.05 | 240  | 44655    | 0.40  | ng    | -0.01     |
| 32) Perylene-d12            | 23.16 | 264  | 49954    | 0.40  | ng    | 0.00      |
| System Monitoring Compounds |       |      |          |       |       |           |
| 3) 2-Fluorophenol           | 5.06  | 112  | 8727     | 0.41  | ng    | 0.00      |
| 4) Phenol-d6                | 6.62  | 99   | 11760    | 0.44  | ng    | 0.00      |
| 7) Nitrobenzene-d5          | 8.56  | 82   | 9415     | 0.34  | ng    | 0.00      |
| 10) 2-Methylnaphthalene-d10 | 11.79 | 152  | 21279    | 0.33  | ng    | 0.00      |
| 13) 2,4,6-Tribromophenol    | 15.57 | 330  | 1384     | 0.13  | ng    | 0.00      |
| 14) 2-Fluorobiphenyl        | 12.71 | 172  | 5533     | 0.19  | ng    | 0.00      |
| 24) Fluoranthene-d10        | 18.87 | 212  | 53745    | 0.33  | ng    | 0.00      |
| 28) Terphenyl-d14           | 19.49 | 244  | 42407    | 0.35  | ng    | 0.00      |
| Target Compounds            |       |      |          |       |       |           |
| 15) Acenaphthylene          | 13.79 | 152  | 13338    | 0.129 | ng    | Qvalue 97 |
| 16) Acenaphthene            | 14.13 | 154  | 1358     | 0.021 | ng    | # 93      |
| 17) Fluorene                | 15.14 | 166  | 2592     | 0.026 | ng    | # 12      |
| 22) Phenanthrene            | 16.87 | 178  | 4002     | 0.029 | ng    | # 91      |
| 27) Pyrene                  | 19.26 | 202  | 3897     | 0.025 | ng    | # 83      |

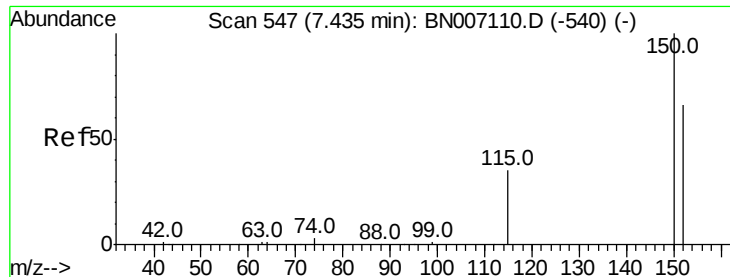
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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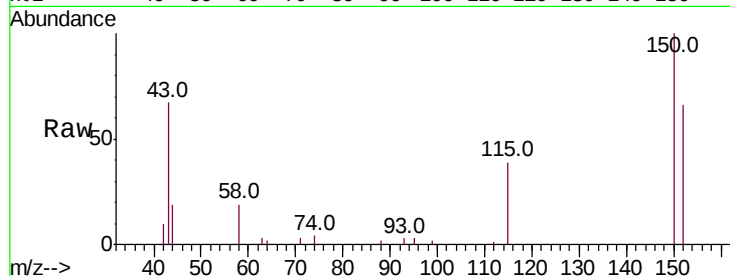


#1

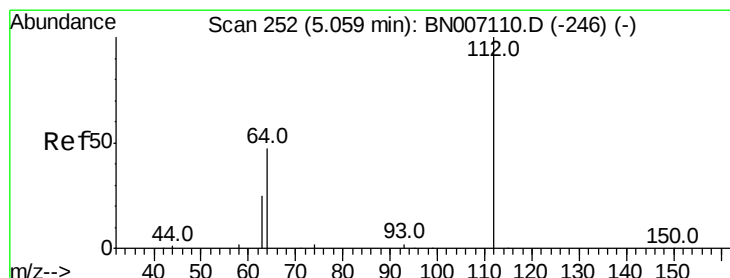
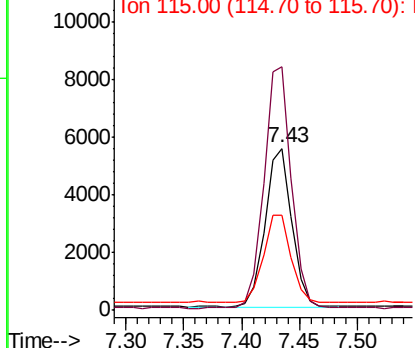
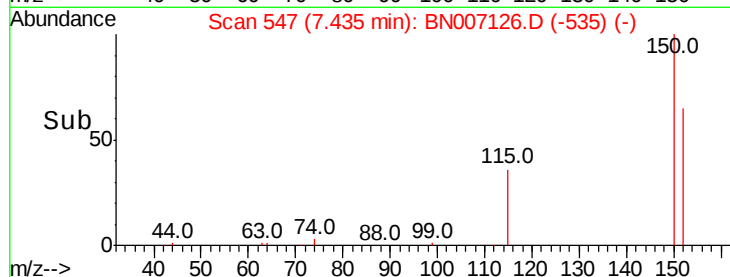
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.43 min Scan# 547  
Delta R.T. -0.00 min  
Lab File: BN007126.D  
Acq: 13 Aug 2019 11:43

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:152 Resp: 8888  
Ion Ratio Lower Upper  
152 100  
150 150.6 121.7 182.5  
115 59.1 46.2 69.4



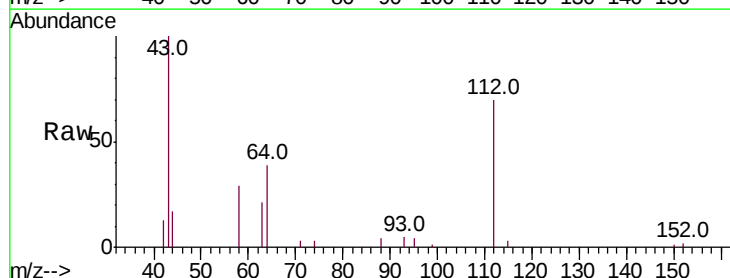
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



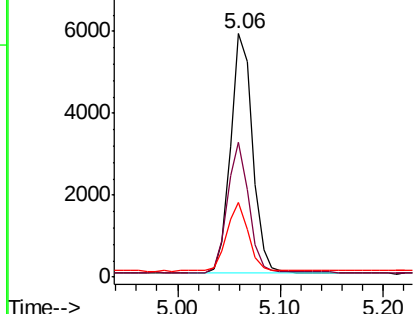
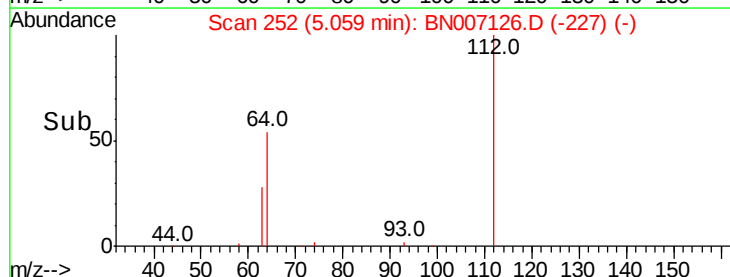
#3

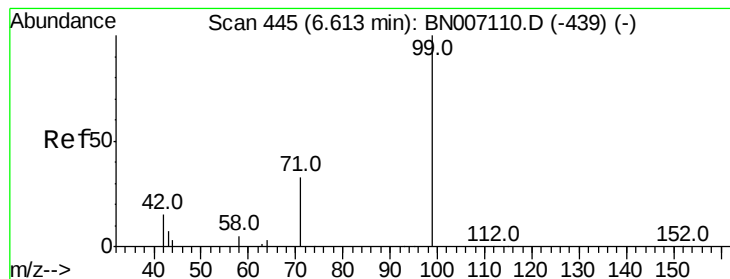
2-Fluorophenol  
Concen: 0.409 ng  
RT: 5.06 min Scan# 252  
Delta R.T. -0.00 min  
Lab File: BN007126.D  
Acq: 13 Aug 2019 11:43

Tgt Ion:112 Resp: 8727  
Ion Ratio Lower Upper  
112 100  
64 52.0 42.6 63.8  
63 28.1 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BNC  
Ion 63.00 (62.70 to 63.70): BNC





#4

Phenol-d6

Concen: 0.445 ng

RT: 6.62 min Scan# 446

Delta R.T. 0.01 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

Instrument :

BNA\_N

ClientSampled :

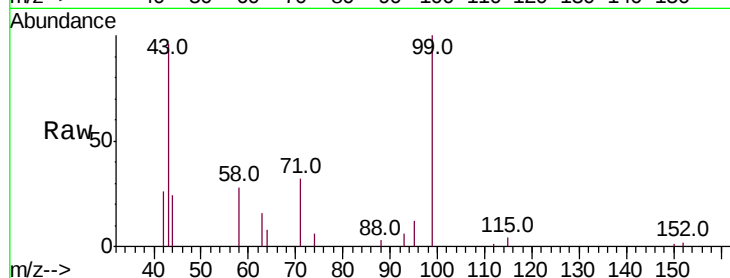
Tot Ion: 99 Resp: 11760

Ion Ratio Lower Upper

99 100

42 29.0 15.8 23.6#

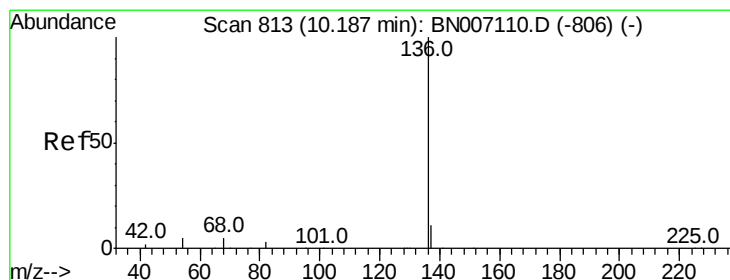
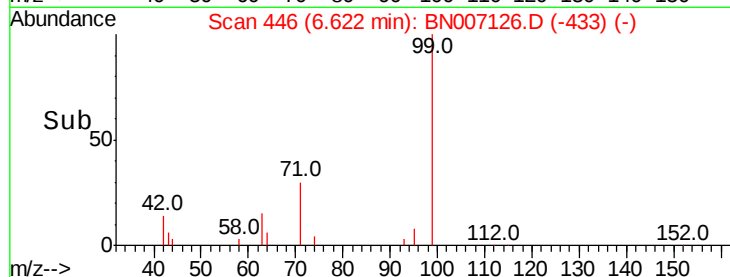
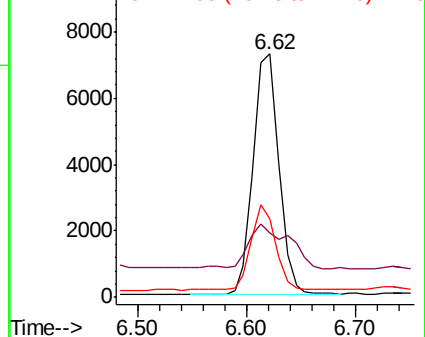
71 33.5 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007110.D (-439) (-)

Ion 42.00 (41.70 to 42.70): BN007110.D (-439) (-)

Ion 71.00 (70.70 to 71.70): BN007110.D (-439) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

Tgt Ion: 136 Resp: 34549

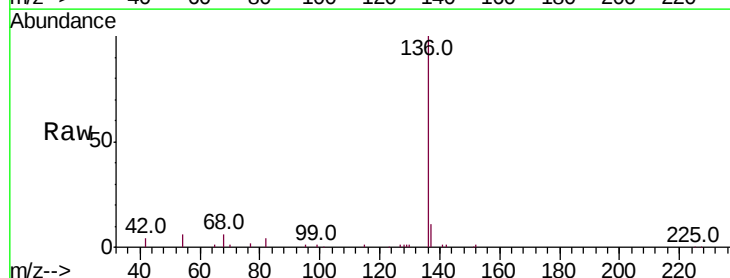
Ion Ratio Lower Upper

136 100

137 11.3 9.4 14.0

54 6.5 6.6 9.8#

68 5.9 6.0 9.0#

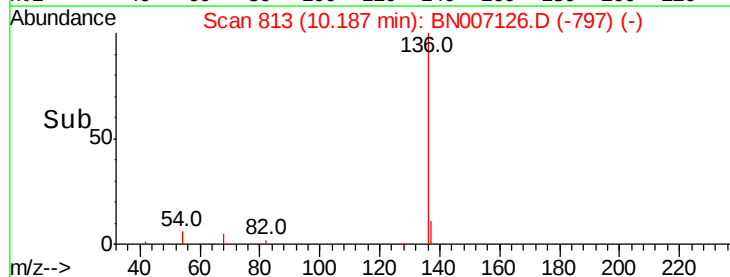
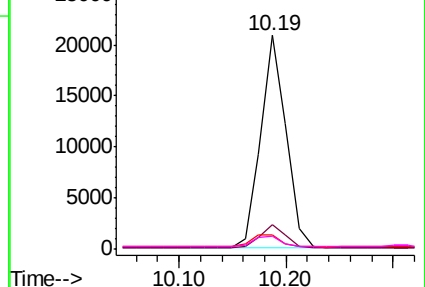


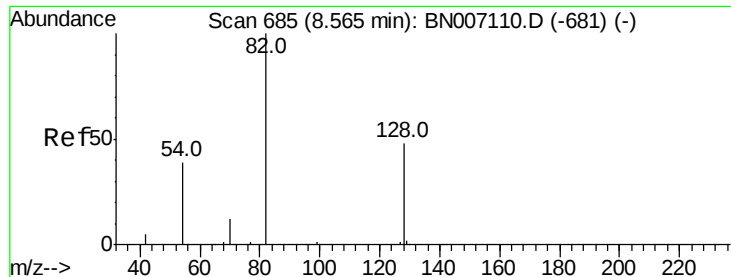
Abundance Ion 136.00 (135.70 to 136.70): BN007110.D (-806) (-)

Ion 137.00 (136.70 to 137.70): BN007110.D (-806) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-806) (-)

Ion 68.00 (67.70 to 68.70): BN007110.D (-806) (-)





#7

Nitrobenzene-d5

Concen: 0.338 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

Instrument :

BNA\_N

ClientSampleId :

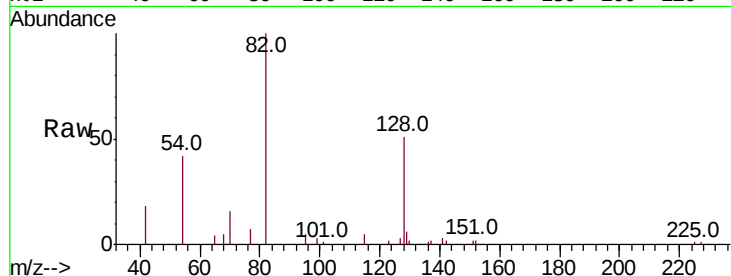
Tot Ion: 82 Resp: 9415

Ion Ratio Lower Upper

82 100

128 51.1 34.6 51.8

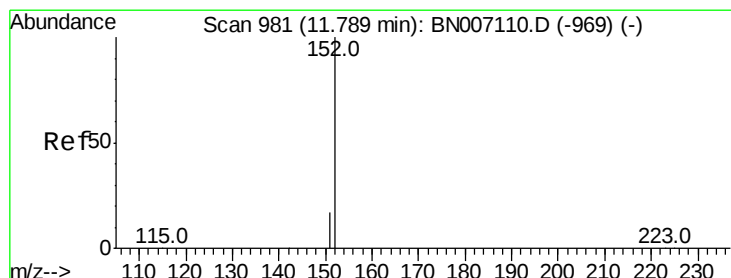
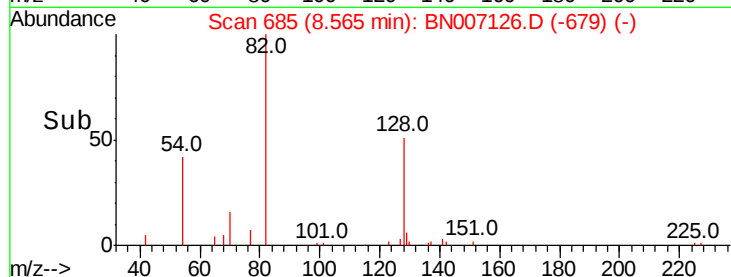
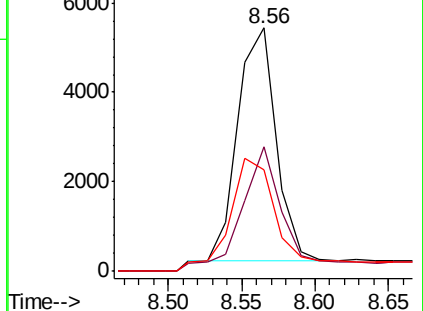
54 41.5 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007110.D (-681) (-)

Ion 128.00 (127.70 to 128.70): BN007110.D (-681) (-)

Ion 54.00 (53.70 to 54.70): BN007110.D (-681) (-)



#10

2-Methylnaphthalene-d10

Concen: 0.330 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007126.D

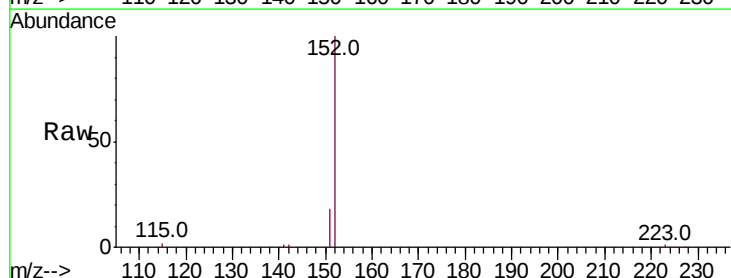
Acq: 13 Aug 2019 11:43

Tgt Ion: 152 Resp: 21279

Ion Ratio Lower Upper

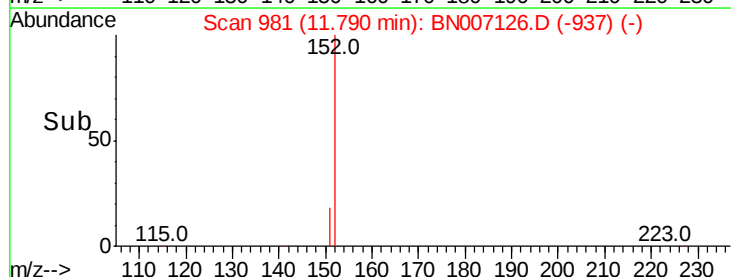
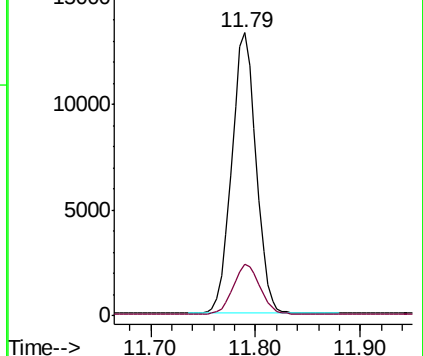
152 100

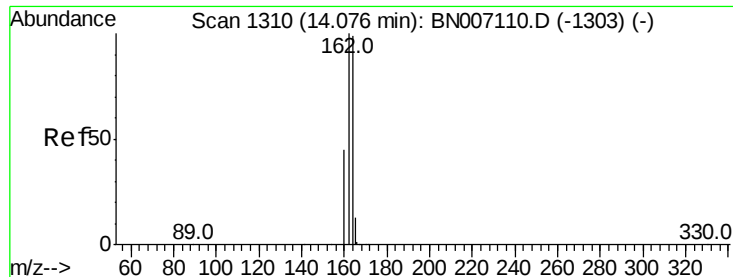
151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007110.D (-969) (-)

Ion 151.00 (150.70 to 151.70): BN007110.D (-969) (-)





#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

Instrument :

BNA\_N

ClientSampleId :

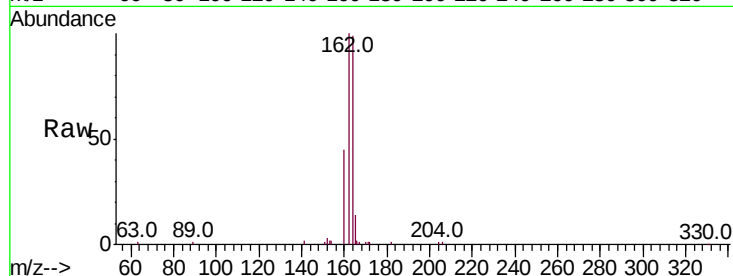
Tot Ion:164 Resp: 19716

Ion Ratio Lower Upper

164 100

162 101.1 82.2 123.4

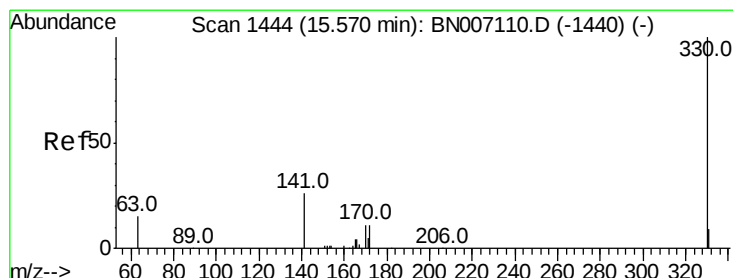
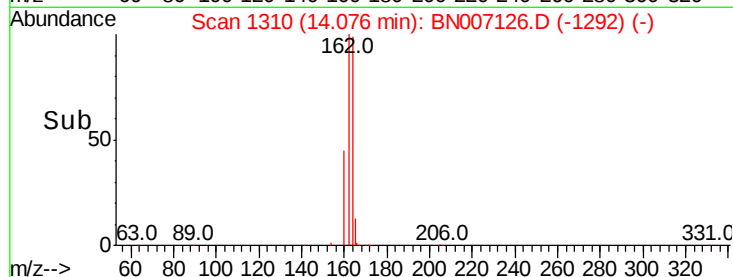
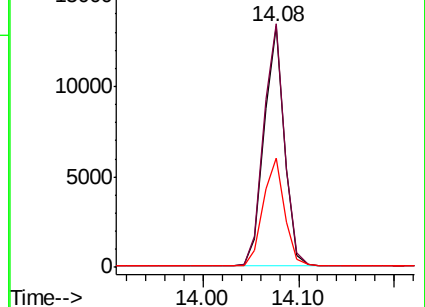
160 45.6 38.3 57.5



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



#13

2,4,6-Tribromophenol

Concen: 0.130 ng

RT: 15.57 min Scan# 1444

Delta R.T. -0.00 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

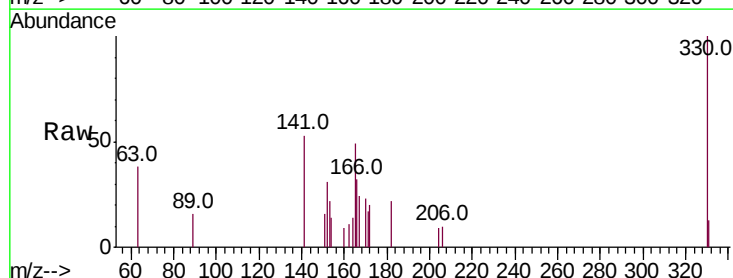
Tgt Ion:330 Resp: 1384

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

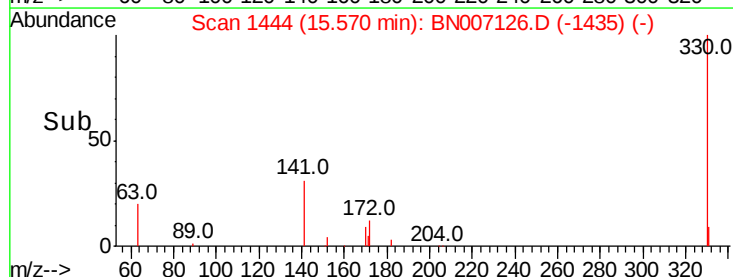
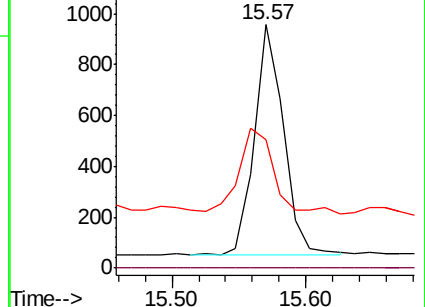
141 43.5 33.6 50.4

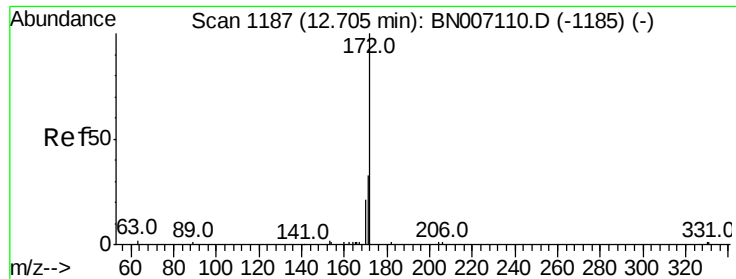


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

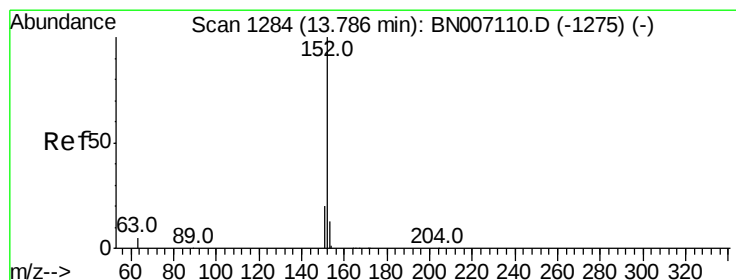
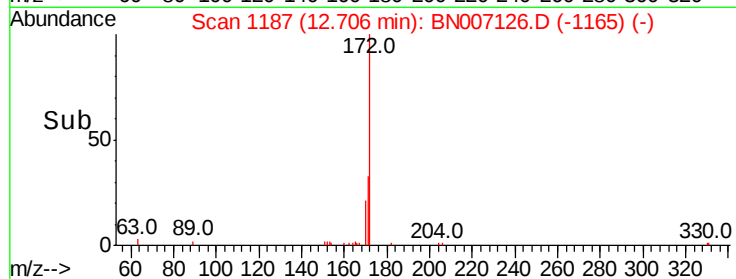
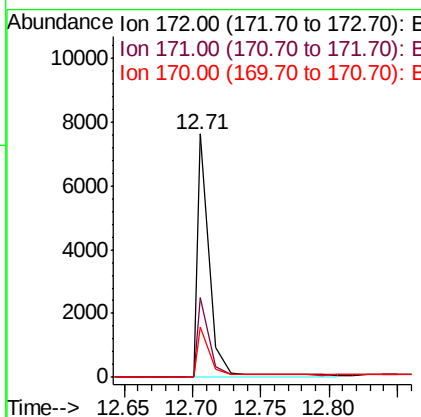
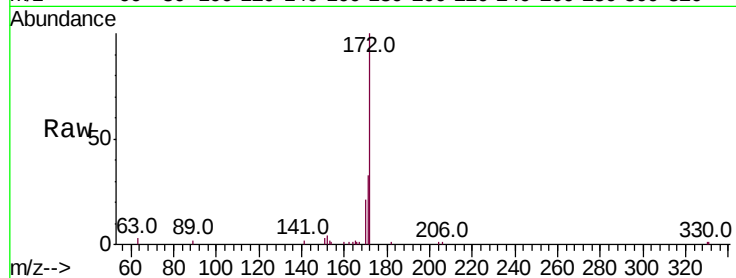




#14  
2-Fluorobiphenyl  
Concen: 0.193 ng  
RT: 12.71 min Scan# 1187  
Delta R.T. -0.00 min  
Lab File: BN007126.D  
Acq: 13 Aug 2019 11:43

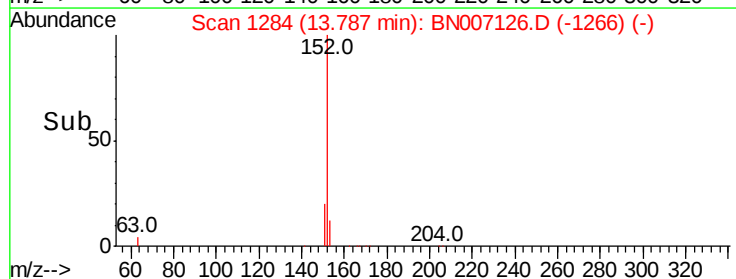
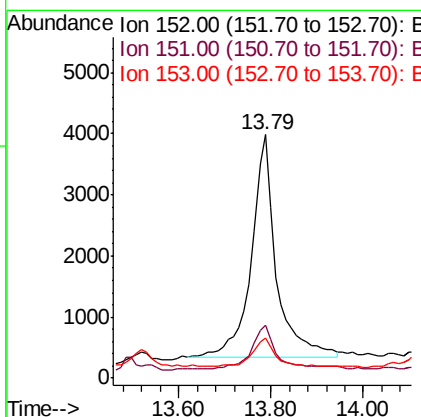
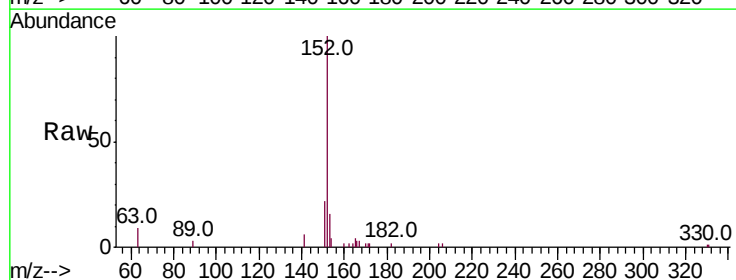
Instrument :  
BNA\_N  
ClientSampleId :

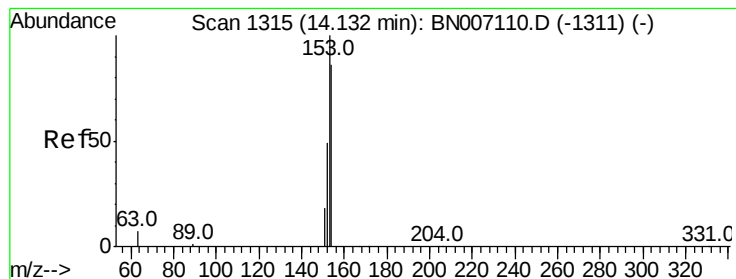
Tot Ion:172 Resp: 5533  
Ion Ratio Lower Upper  
172 100  
171 32.8 26.3 39.5  
170 20.7 17.0 25.4



#15  
Acenaphthylene  
Concen: 0.129 ng  
RT: 13.79 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BN007126.D  
Acq: 13 Aug 2019 11:43

Tgt Ion:152 Resp: 13338  
Ion Ratio Lower Upper  
152 100  
151 18.2 15.8 23.6  
153 11.9 10.4 15.6





#16

Acenaphthene

Concen: 0.021 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

Instrument :

BNA\_N

ClientSampled :

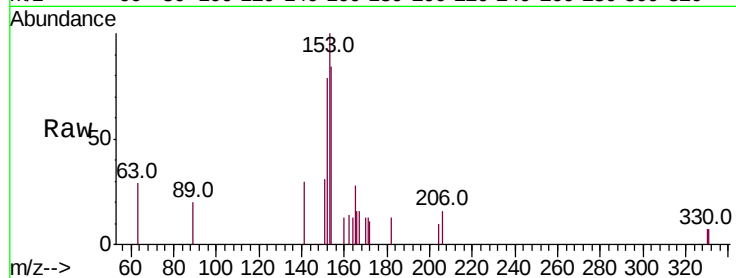
Tot Ion:154 Resp: 1358

Ion Ratio Lower Upper

154 100

153 111.5 89.5 134.3

152 69.8 44.8 67.2#

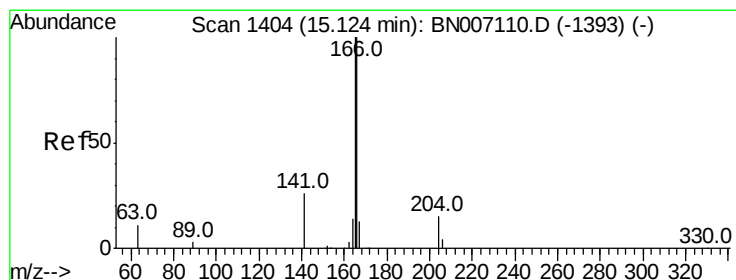
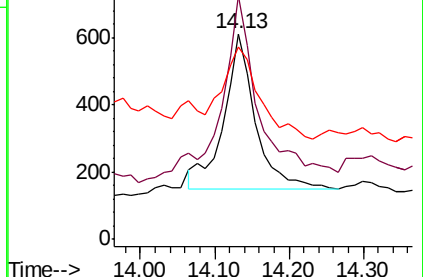
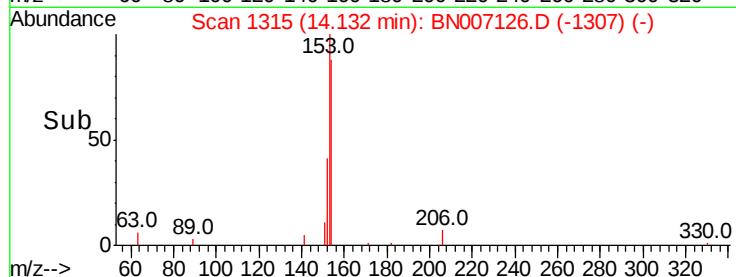


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

14.13



#17

Fluorene

Concen: 0.026 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

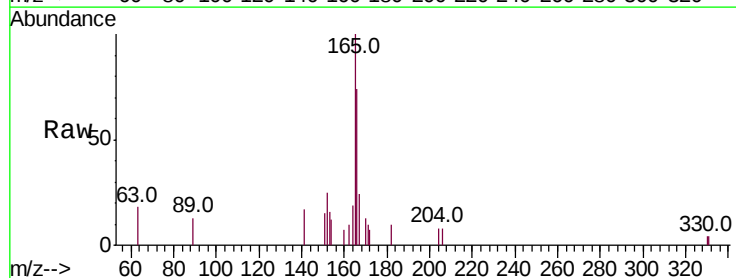
Tgt Ion:166 Resp: 2592

Ion Ratio Lower Upper

166 100

165 0.0 77.9 116.9#

167 10.2 10.9 16.3#

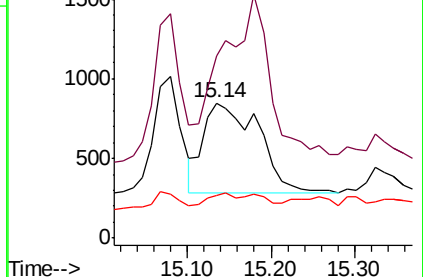
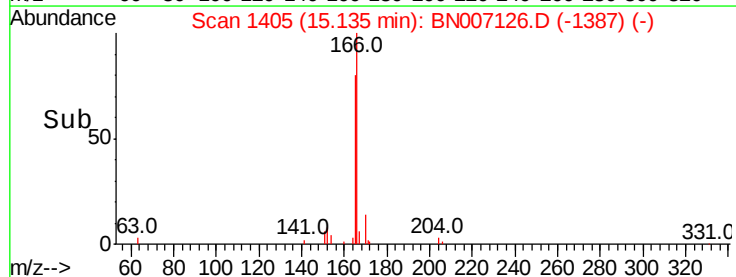


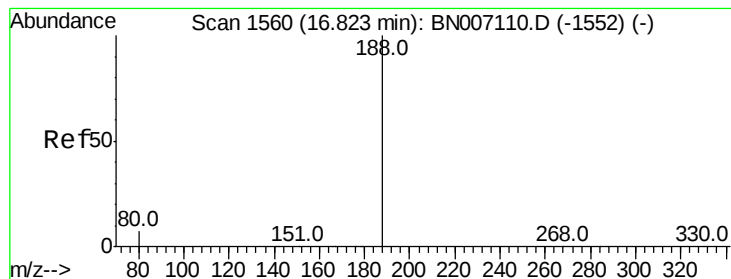
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

15.14





#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

Instrument :

BNA\_N

ClientSampleId :

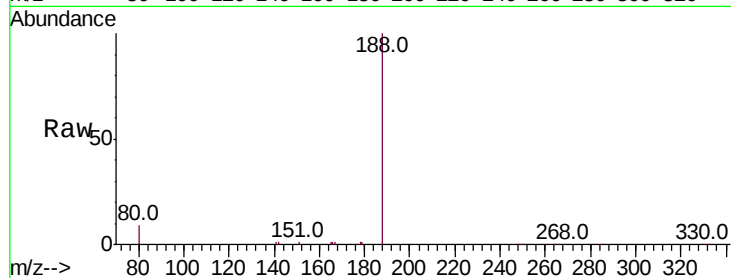
Tot Ion:188 Resp: 46050

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

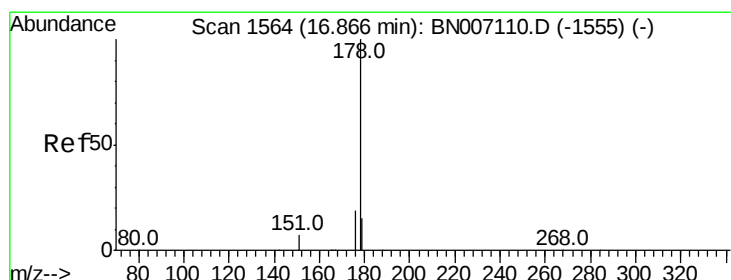
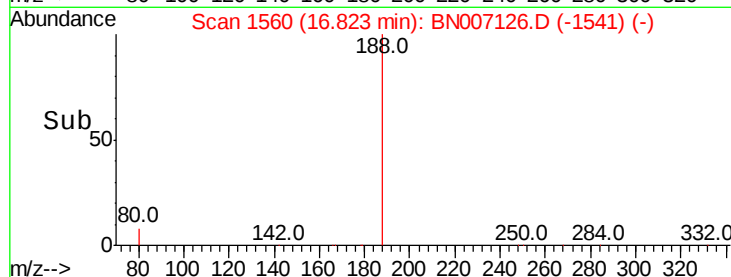
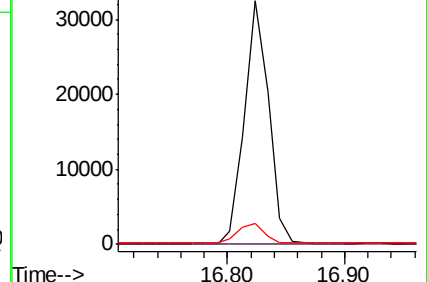
80 8.8 7.8 11.6



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



#22

Phenanthrene

Concen: 0.029 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

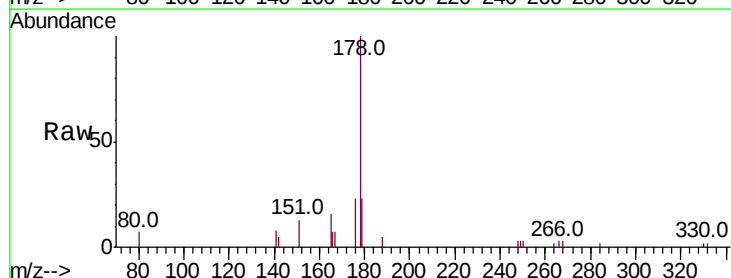
Tgt Ion:178 Resp: 4002

Ion Ratio Lower Upper

178 100

176 20.4 15.2 22.8

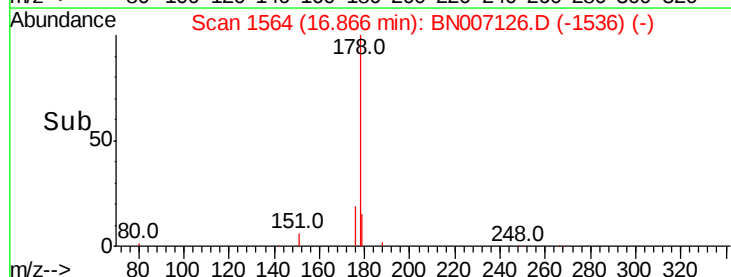
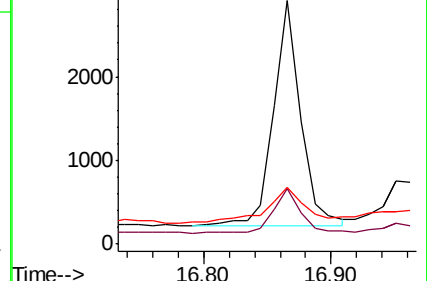
179 22.1 12.3 18.5#

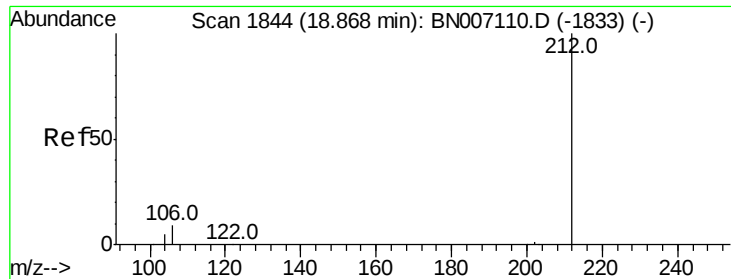


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

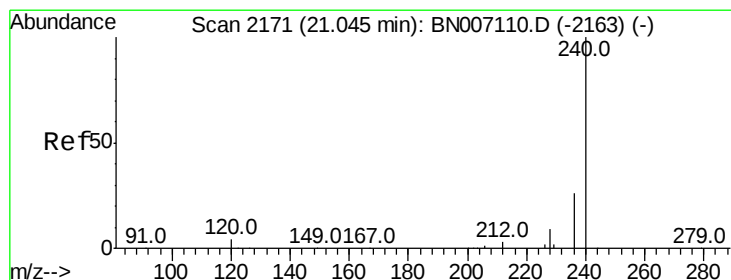
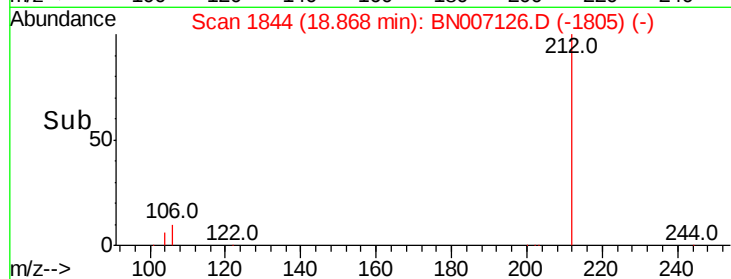
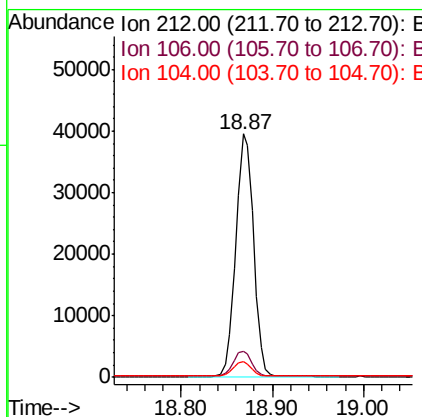
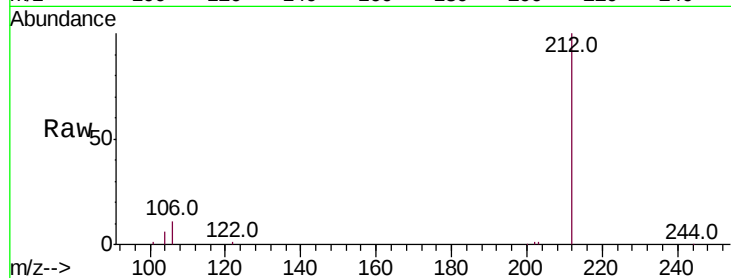




#24  
 Fluoranthene-d10  
 Concen: 0.329 ng  
 RT: 18.87 min Scan# 1844  
 Delta R.T. -0.01 min  
 Lab File: BN007126.D  
 Acq: 13 Aug 2019 11:43

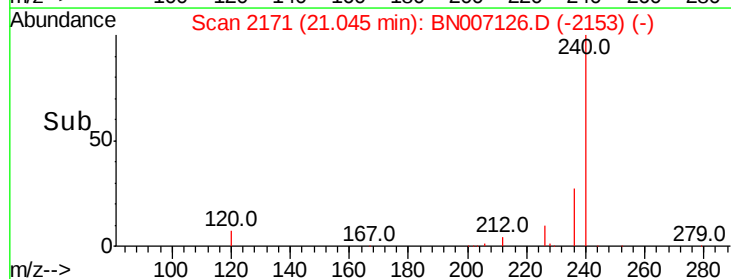
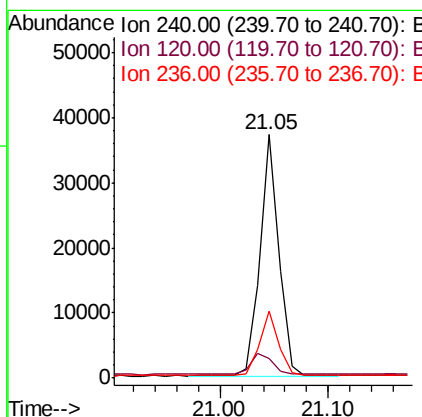
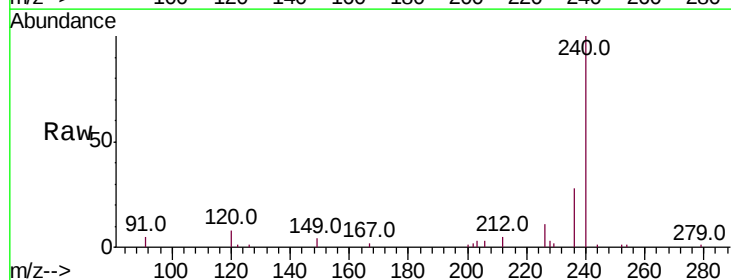
Instrument :  
 BNA\_N  
 ClientSampled :

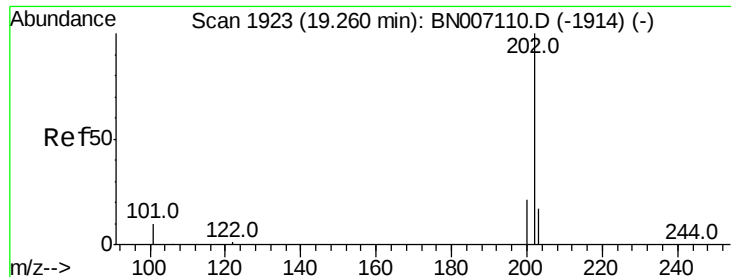
Tot Ion:212 Resp: 53745  
 Ion Ratio Lower Upper  
 212 100  
 106 10.5 8.2 12.2  
 104 5.9 4.5 6.7



#26  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.05 min Scan# 2171  
 Delta R.T. -0.01 min  
 Lab File: BN007126.D  
 Acq: 13 Aug 2019 11:43

Tgt Ion:240 Resp: 44655  
 Ion Ratio Lower Upper  
 240 100  
 120 8.2 4.0 6.0#  
 236 27.6 21.3 31.9





#27

Pvrene

Concen: 0.025 ng

RT: 19.26 min Scan# 1924

Delta R.T. -0.01 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

Instrument :

BNA\_N

ClientSampleId :

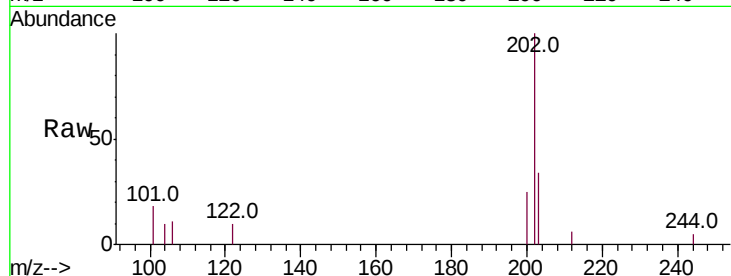
Tot Ion:202 Resp: 3897

Ion Ratio Lower Upper

202 100

200 23.1 16.6 24.8

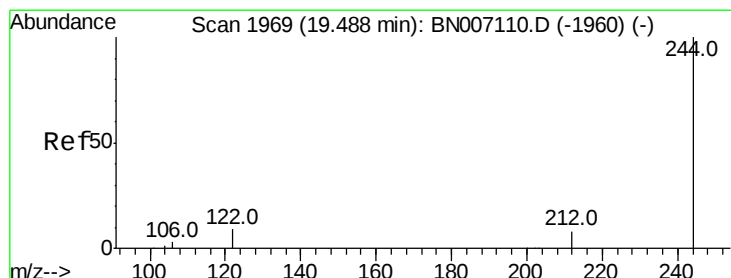
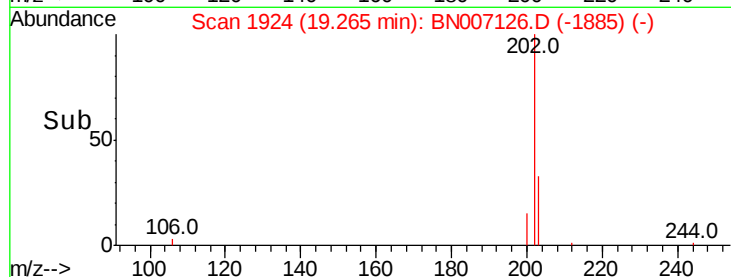
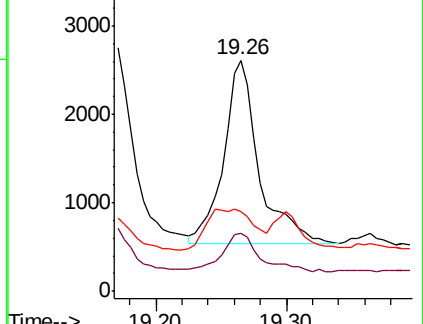
203 31.0 14.0 21.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#28

Terphenyl-d14

Concen: 0.348 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007126.D

Acq: 13 Aug 2019 11:43

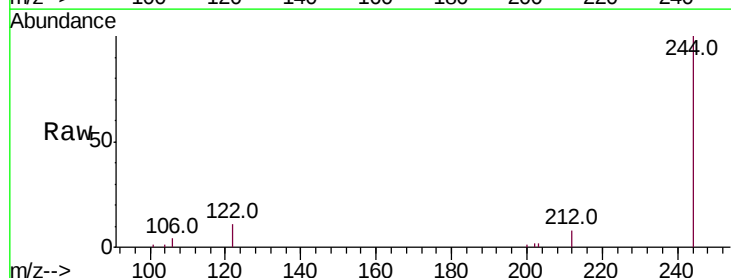
Tgt Ion:244 Resp: 42407

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

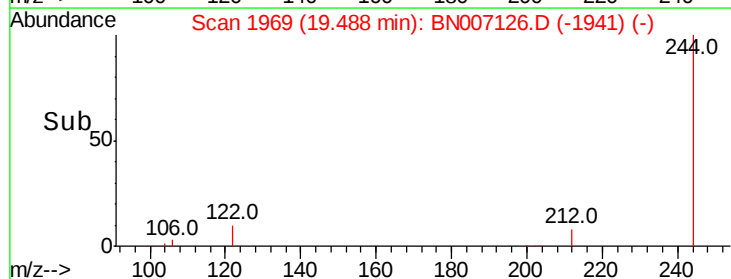
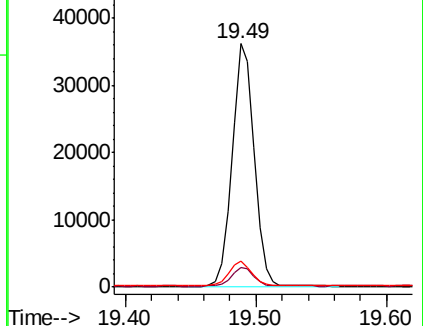
122 10.7 7.4 11.2

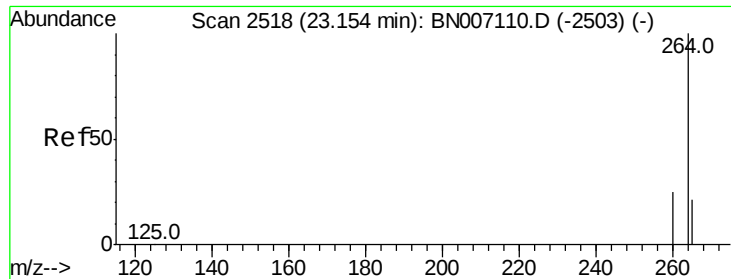


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#32  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 23.16 min Scan# 2521  
 Delta R.T. -0.01 min  
 Lab File: BN007126.D  
 Acq: 13 Aug 2019 11:43

Instrument :  
 BNA\_N  
 ClientSampleId :

Tot Ion:264 Resp: 49954  
 Ion Ratio Lower Upper  
 264 100  
 260 25.4 19.8 29.8  
 265 33.9 26.2 39.4

