

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061220\  
 Data File : BN010845.D  
 Acq On : 12 Jun 2020 14:45  
 Operator : CG/JU  
 Sample : L2988-04  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE132D3-20200608

Quant Time: Jun 23 19:58:08 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN061020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 22 12:02:11 2020  
 Response via : Initial Calibration

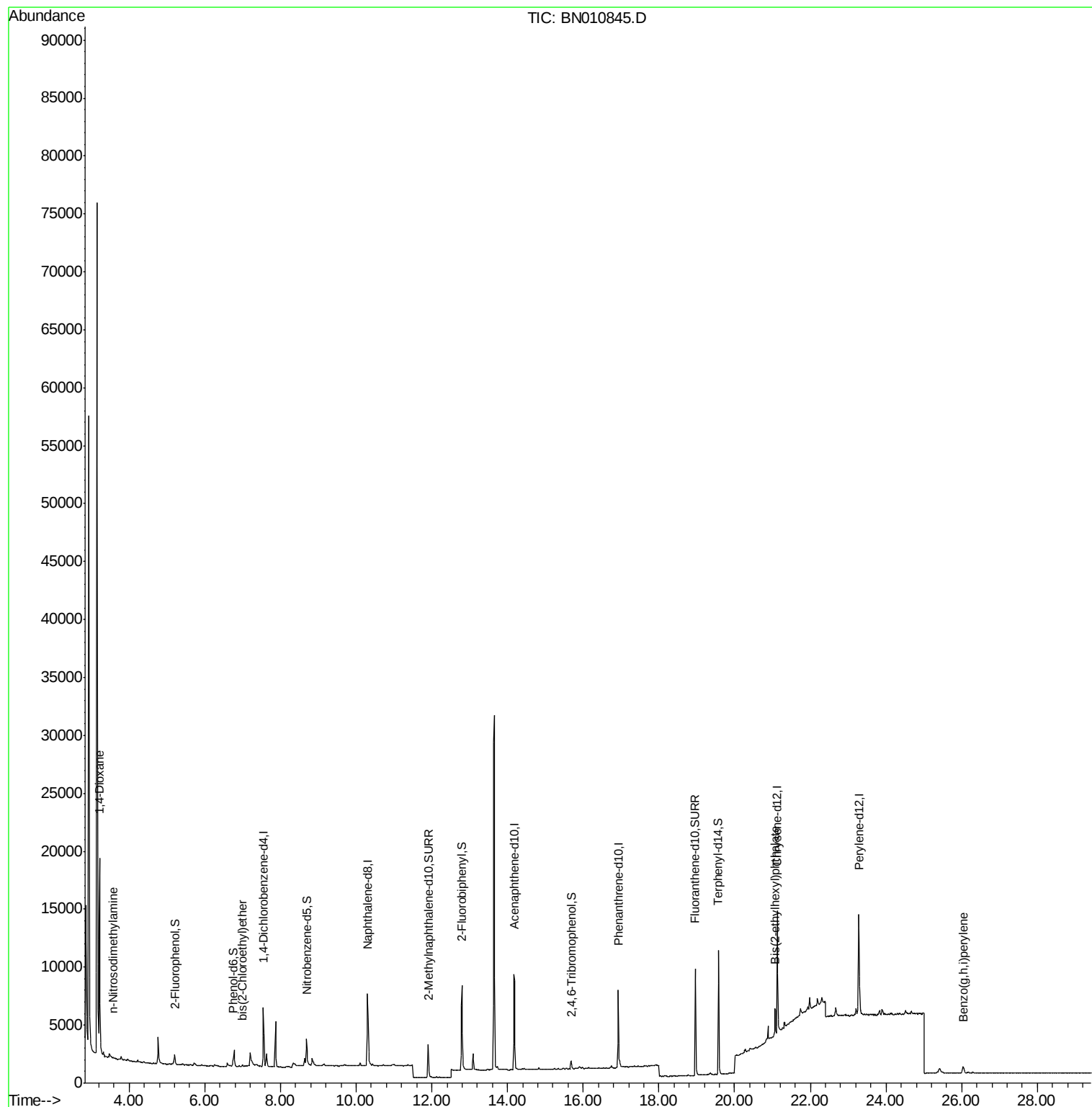
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.56  | 152  | 2638     | 0.40  | ng    | 0.02     |
| 7) Naphthalene-d8              | 10.30 | 136  | 9598     | 0.40  | ng    | 0.03     |
| 13) Acenaphthene-d10           | 14.17 | 164  | 5332     | 0.40  | ng    | 0.02     |
| 19) Phenanthrene-d10           | 16.92 | 188  | 11163    | 0.40  | ng    | 0.01     |
| 27) Chrysene-d12               | 21.13 | 240  | 10762    | 0.40  | ng    | 0.01     |
| 34) Perylene-d12               | 23.28 | 264  | 11640    | 0.40  | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.21  | 112  | 838      | 0.16  | ng    | 0.02     |
| 5) Phenol-d6                   | 6.75  | 99   | 566      | 0.09  | ng    | 0.02     |
| 8) Nitrobenzene-d5             | 8.69  | 82   | 2461     | 0.35  | ng    | 0.03     |
| 11) 2-Methylnaphthalene-d10    | 11.90 | 152  | 4610     | 0.31  | ng    | 0.03     |
| 14) 2,4,6-Tribromophenol       | 15.68 | 330  | 648      | 0.34  | ng    | 0.02     |
| 15) 2-Fluorobiphenyl           | 12.80 | 172  | 7350     | 0.35  | ng    | 0.02     |
| 25) Fluoranthene-d10           | 18.96 | 212  | 11518    | 0.37  | ng    | 0.02     |
| 29) Terphenyl-d14              | 19.57 | 244  | 11372    | 0.45  | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 3.22  | 88   | 12621    | 4.884 | ng    | 98       |
| 3) n-Nitrosodimethylamine      | 3.58  | 42   | 32       | 0.021 | ng    | # 1      |
| 6) bis(2-Chloroethyl)ether     | 7.00  | 93   | 122      | 0.021 | ng    | 89       |
| 32) Bis(2-ethylhexyl)phthalate | 21.07 | 149  | 2350     | 0.223 | ng    | 98       |
| 39) Benzo(g,h,i)perylene       | 26.03 | 276  | 1220     | 0.030 | ng    | # 56     |

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

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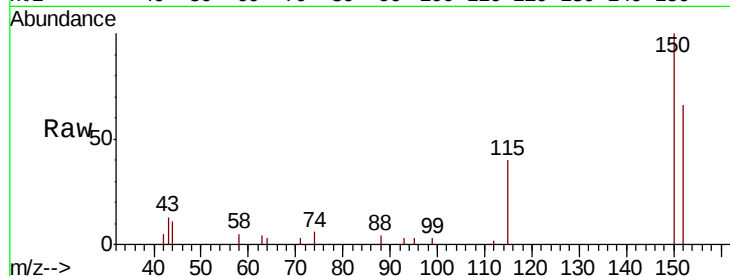


#1

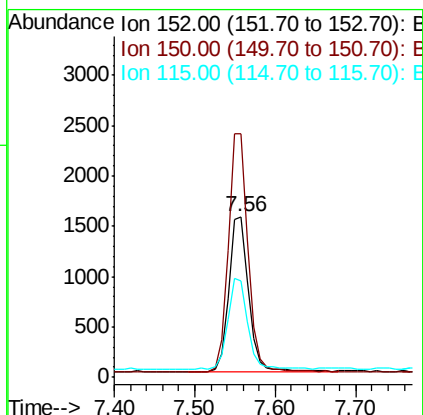
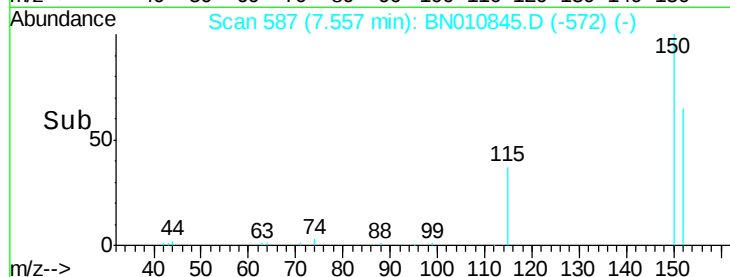
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.56 min Scan# 587  
Delta R.T. 0.02 min  
Lab File: BN010845.D  
Acq: 12 Jun 2020 14:45

Instrument :  
BNA\_N  
ClientSampleId :  
RE132D3-20200608

Tot Ion:152 Resp: 2638  
Ion Ratio Lower Upper  
152 100  
150 151.7 123.8 185.6  
115 60.2 49.2 73.8



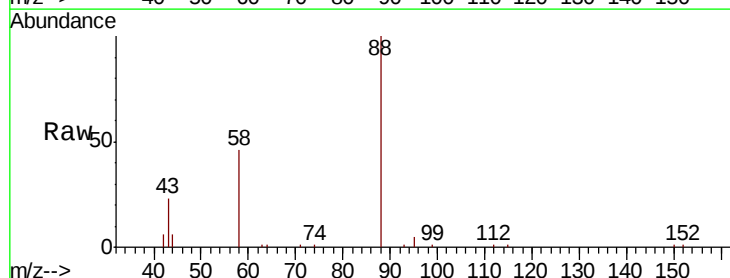
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



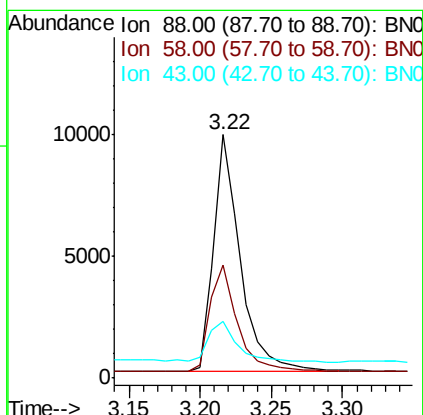
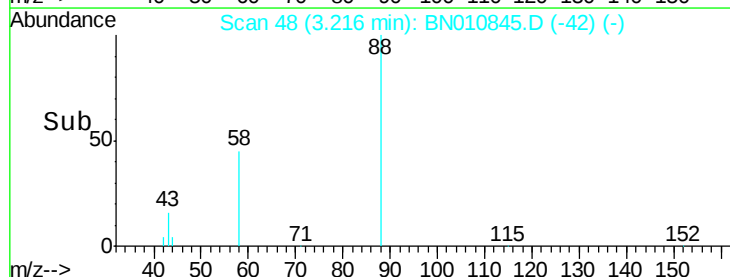
#2

1,4-Dioxane  
Concen: 4.884 ng  
RT: 3.22 min Scan# 48  
Delta R.T. 0.00 min  
Lab File: BN010845.D  
Acq: 12 Jun 2020 14:45

Tgt Ion: 88 Resp: 12621  
Ion Ratio Lower Upper  
88 100  
58 46.5 38.2 57.4  
43 18.4 15.1 22.7



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

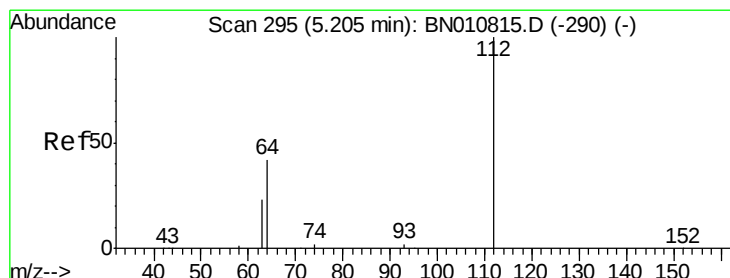
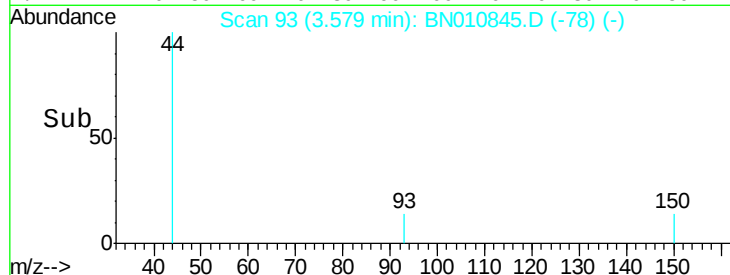
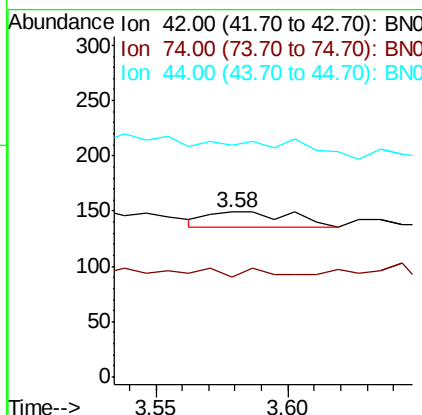
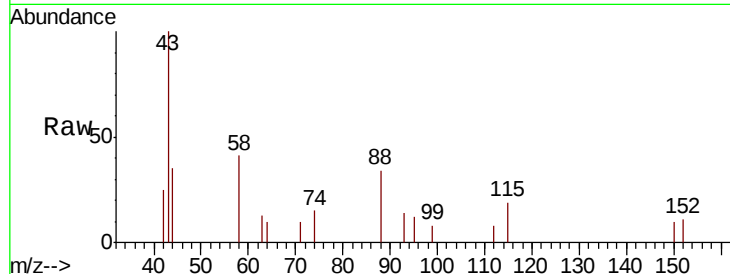




#3  
n-Nitrosodimethylamine  
Concen: 0.021 ng  
RT: 3.58 min Scan# 93  
Delta R.T. 0.02 min  
Lab File: BN010845.D  
Acq: 12 Jun 2020 14:45

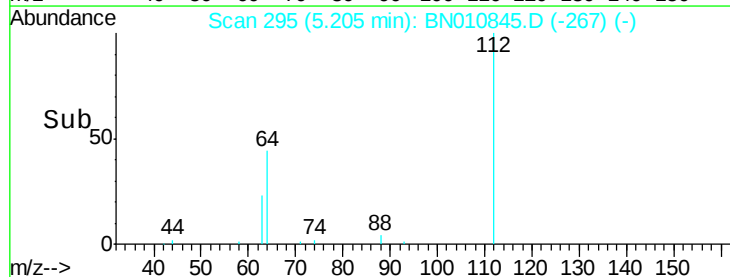
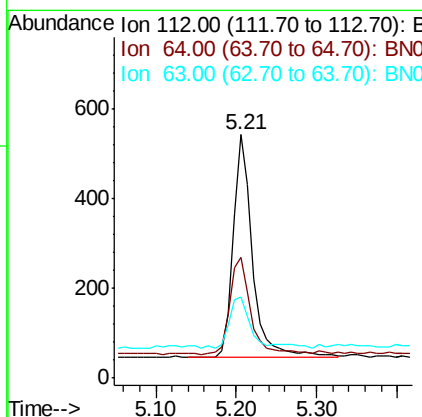
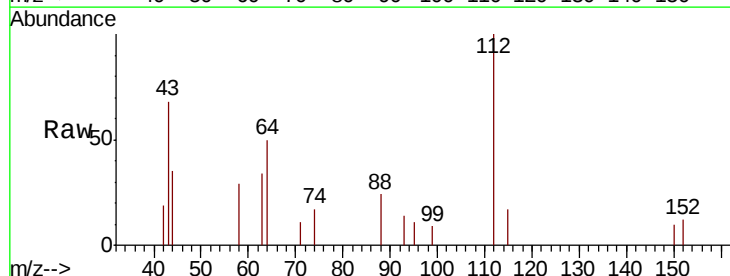
Instrument :  
BNA\_N  
ClientSampleId :  
RE132D3-20200608

Tot Ion: 42 Resp: 32  
Ion Ratio Lower Upper  
42 100  
74 0.0 140.7 211.1#  
44 0.0 1.4 2.2#



#4  
2-Fluorophenol  
Concen: 0.165 ng  
RT: 5.21 min Scan# 295  
Delta R.T. 0.02 min  
Lab File: BN010845.D  
Acq: 12 Jun 2020 14:45

Tgt Ion: 112 Resp: 838  
Ion Ratio Lower Upper  
112 100  
64 46.3 37.4 56.0  
63 24.1 22.2 33.4





#5

Phenol-d6

Concen: 0.094 ng

RT: 6.75 min Scan# 487

Delta R.T. 0.02 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

Instrument :

BNA\_N

ClientSampleId :

RE132D3-20200608

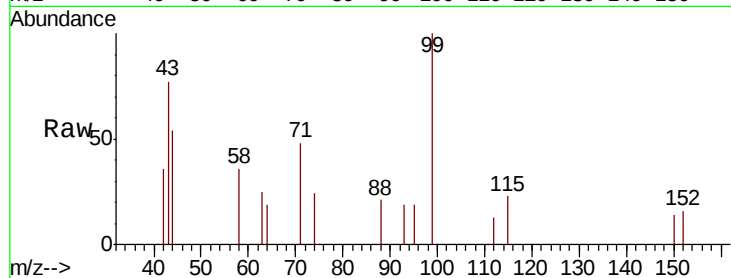
Tot Ion: 99 Resp: 566

Ion Ratio Lower Upper

99 100

42 10.6 11.1 16.7#

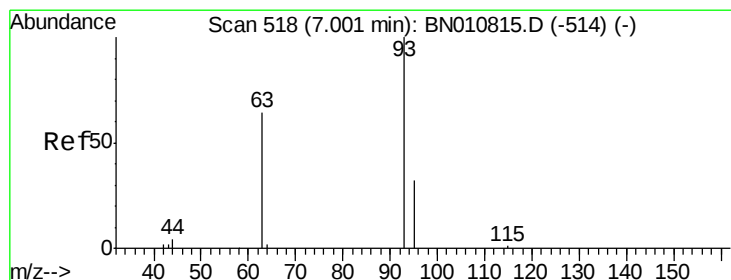
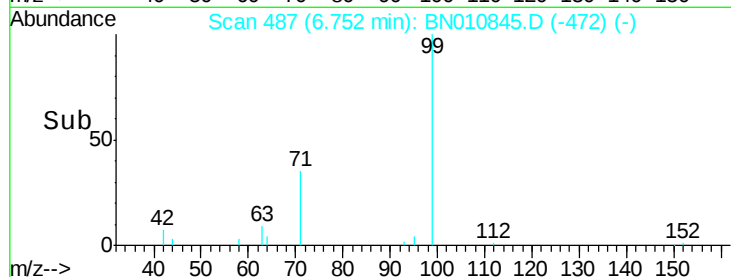
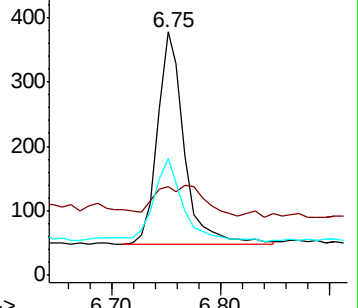
71 45.1 31.4 47.2



Abundance Ion 99.00 (98.70 to 99.70): BN010845.D (-479) (-)

Ion 42.00 (41.70 to 42.70): BN010845.D (-479) (-)

Ion 71.00 (70.70 to 71.70): BN010845.D (-479) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.021 ng

RT: 7.00 min Scan# 518

Delta R.T. 0.02 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

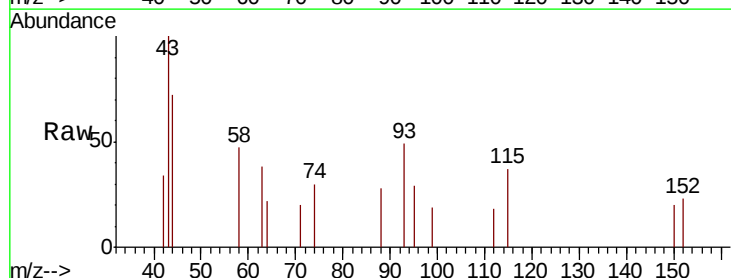
Tgt Ion: 93 Resp: 122

Ion Ratio Lower Upper

93 100

63 72.1 49.4 74.2

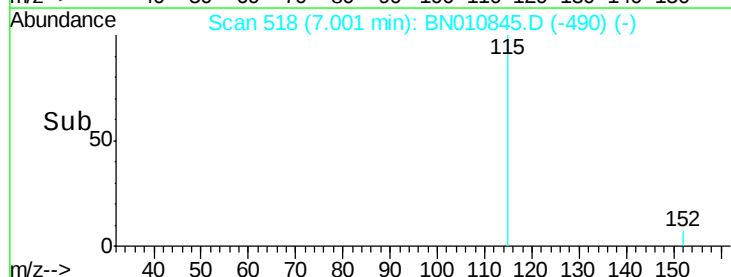
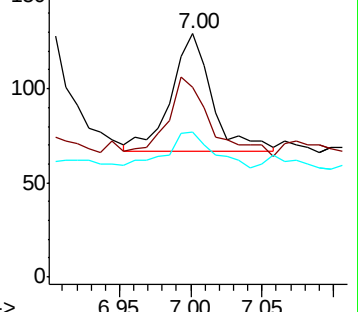
95 36.9 26.7 40.1

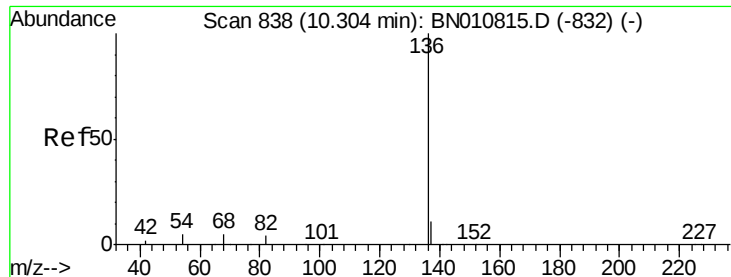


Abundance Ion 93.00 (92.70 to 93.70): BN010845.D (-514) (-)

Ion 63.00 (62.70 to 63.70): BN010845.D (-514) (-)

Ion 95.00 (94.70 to 95.70): BN010845.D (-514) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.30 min Scan# 838

Delta R.T. 0.03 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

Instrument :

BNA\_N

ClientSampleId :

RE132D3-20200608

Tot Ion:136 Resp: 9598

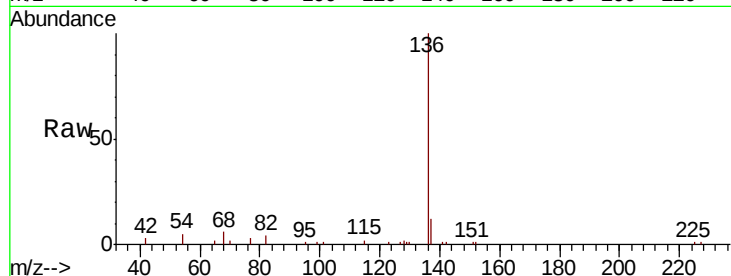
Ion Ratio Lower Upper

136 100

137 11.9 9.7 14.5

54 4.7 4.9 7.3#

68 5.8 4.7 7.1

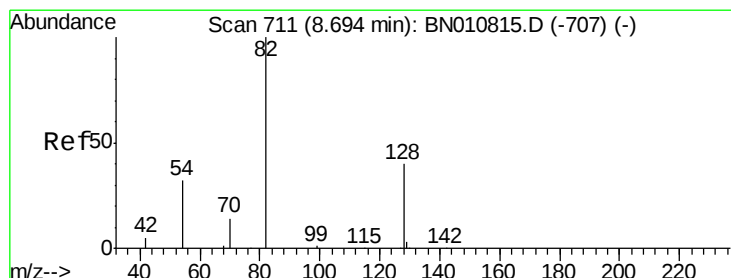
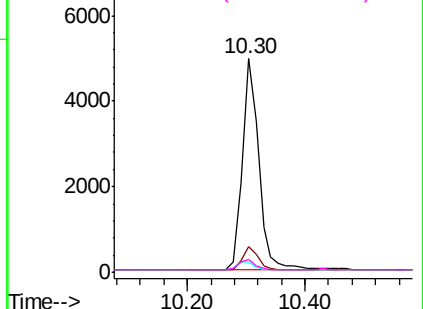
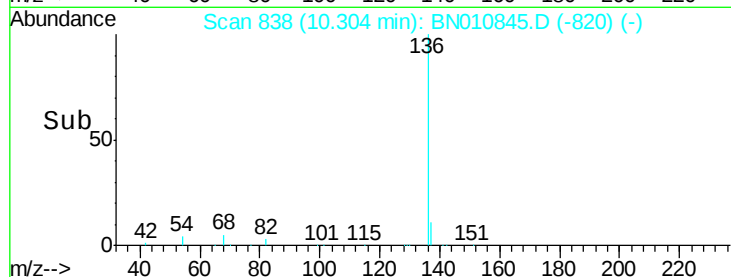


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.346 ng

RT: 8.69 min Scan# 711

Delta R.T. 0.03 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

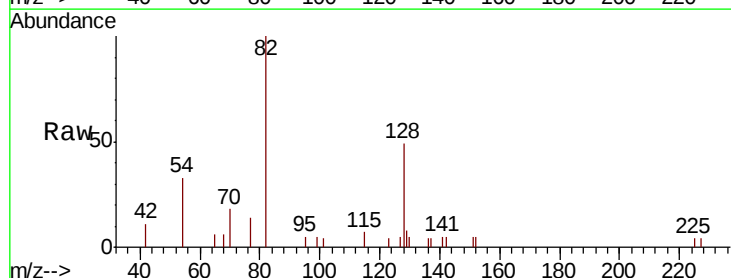
Tgt Ion: 82 Resp: 2461

Ion Ratio Lower Upper

82 100

128 48.9 35.4 53.0

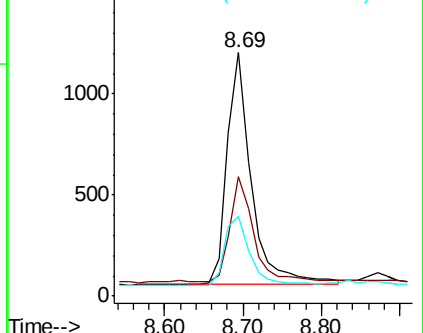
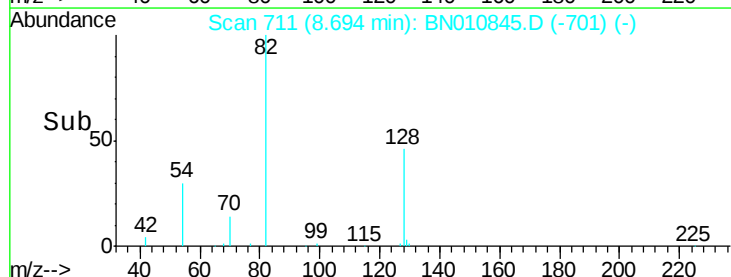
54 32.6 28.2 42.4

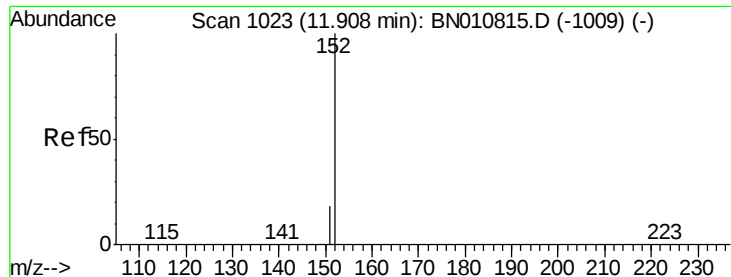


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC

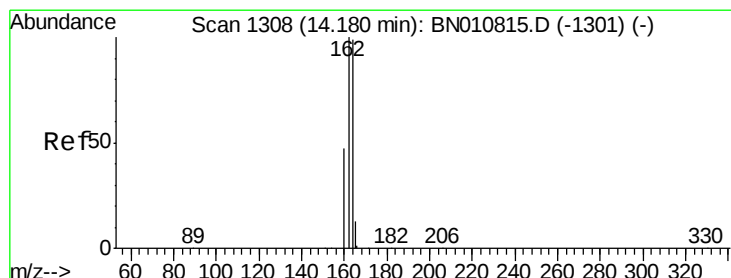
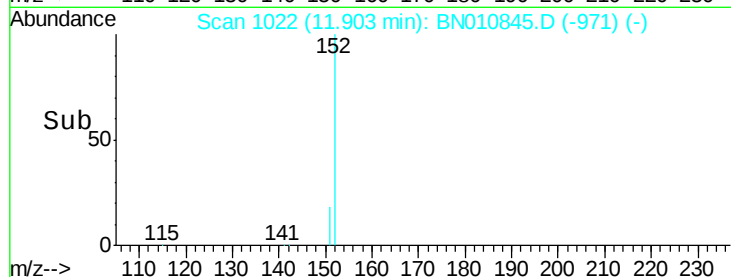
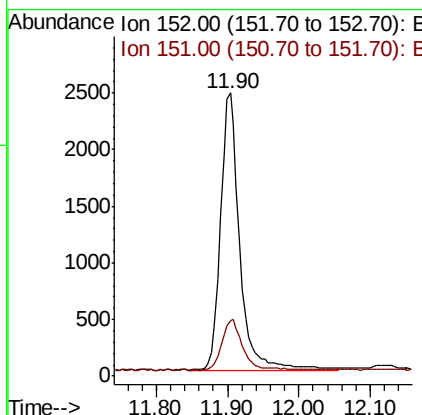
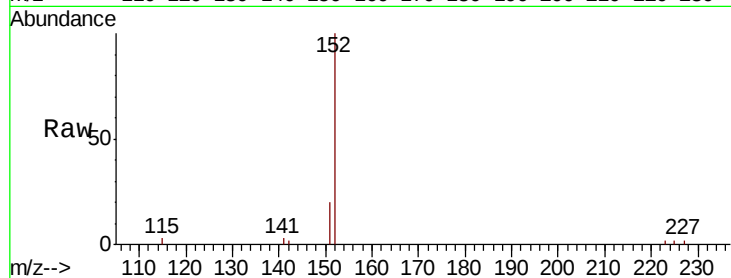




#11  
2-Methylnaphthalene-d10  
Concen: 0.310 ng  
RT: 11.90 min Scan# 1022  
Delta R.T. 0.03 min  
Lab File: BN010845.D  
Acq: 12 Jun 2020 14:45

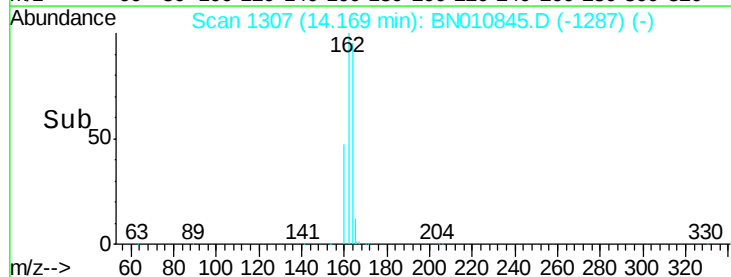
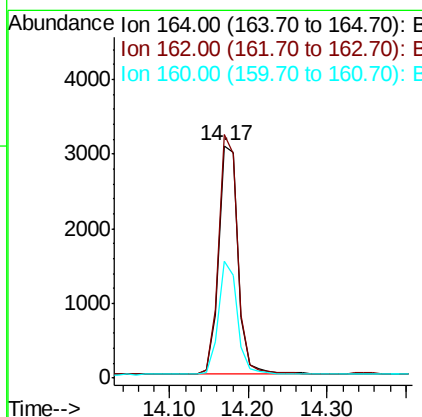
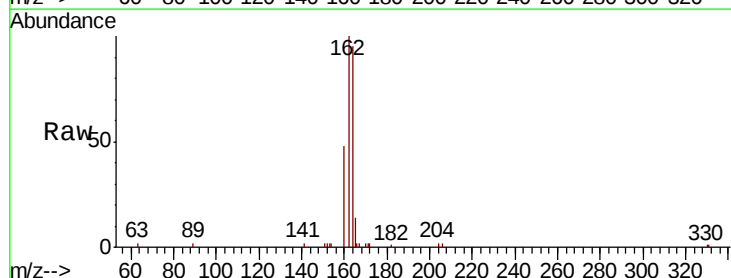
Instrument :  
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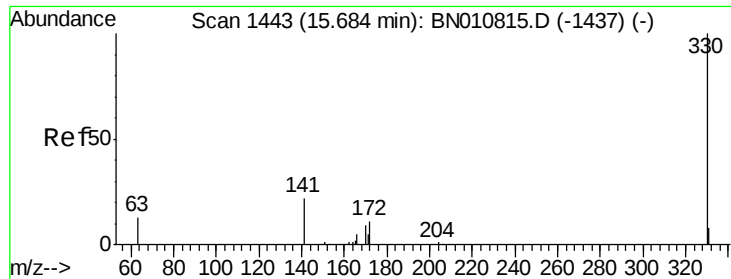
Tot Ion:152 Resp: 4610  
Ion Ratio Lower Upper  
152 100  
151 19.7 15.3 22.9



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.17 min Scan# 1307  
Delta R.T. 0.02 min  
Lab File: BN010845.D  
Acq: 12 Jun 2020 14:45

Tgt Ion:164 Resp: 5332  
Ion Ratio Lower Upper  
164 100  
162 104.8 81.0 121.6  
160 50.1 38.9 58.3

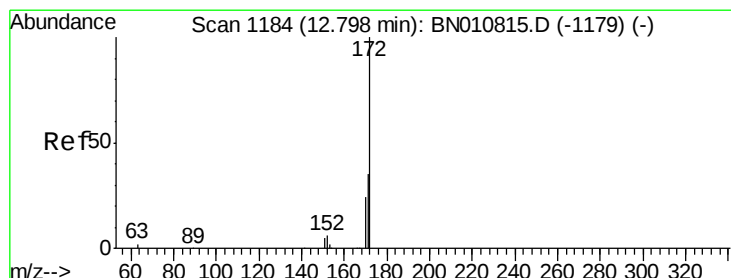
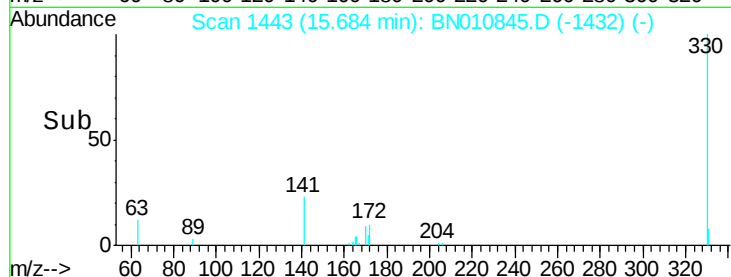
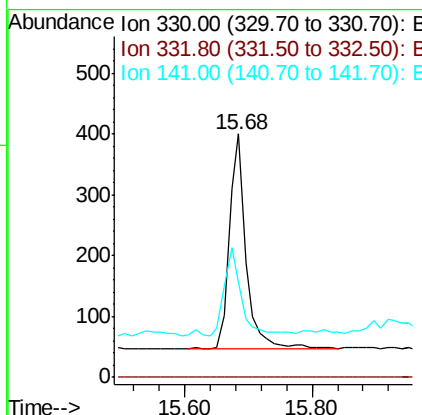
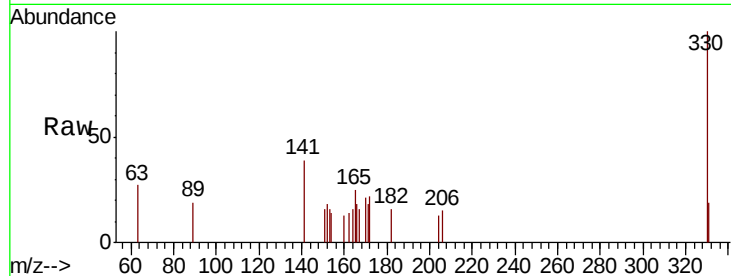




#14  
 2,4,6-Tribromophenol  
 Concen: 0.340 ng  
 RT: 15.68 min Scan# 1443  
 Delta R.T. 0.02 min  
 Lab File: BN010845.D  
 Acq: 12 Jun 2020 14:45

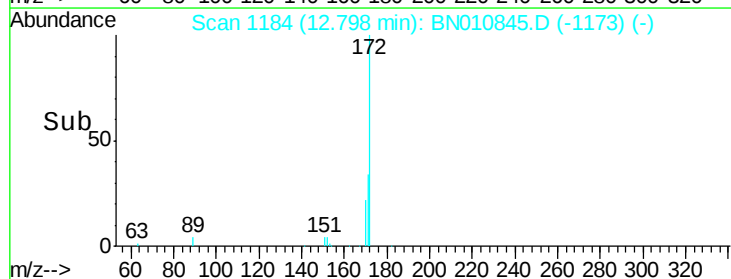
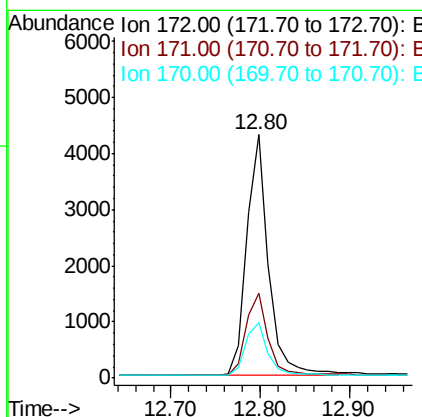
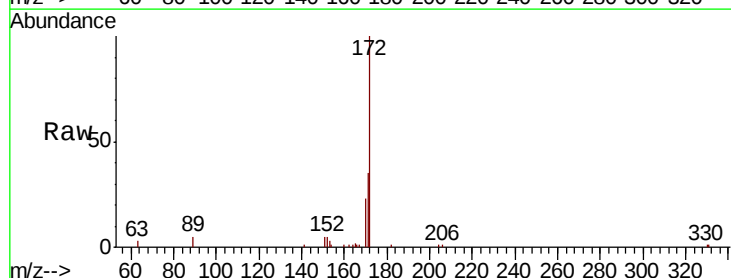
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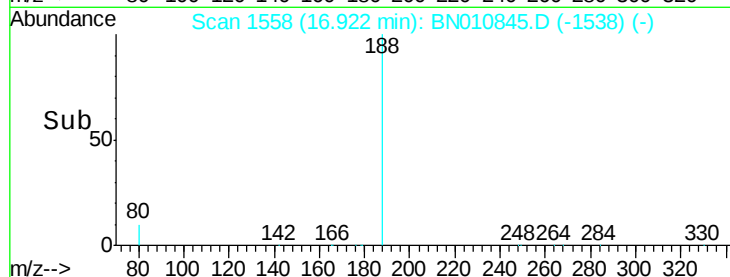
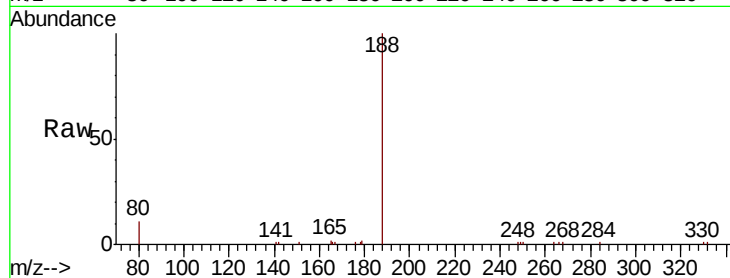
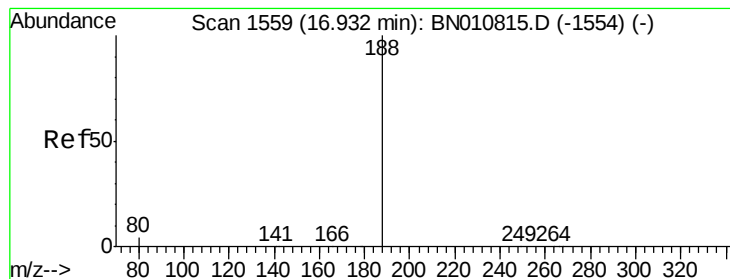
Tot Ion:330 Resp: 648  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 0.0 0.0  
 141 41.4 33.2 49.8



#15  
 2-Fluorobiphenyl  
 Concen: 0.349 ng  
 RT: 12.80 min Scan# 1184  
 Delta R.T. 0.02 min  
 Lab File: BN010845.D  
 Acq: 12 Jun 2020 14:45

Tgt Ion:172 Resp: 7350  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 28.5 42.7  
 170 22.9 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.92 min Scan# 1558

Delta R.T. 0.01 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

Instrument :

BNA\_N

ClientSampleId :

RE132D3-20200608

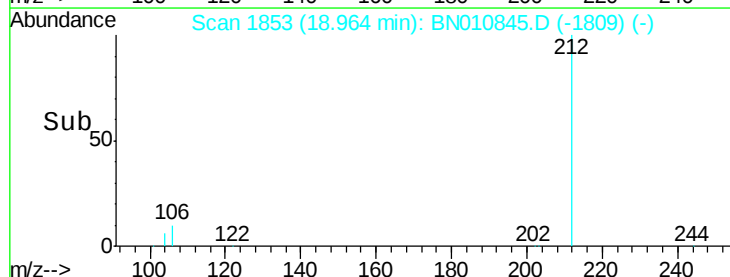
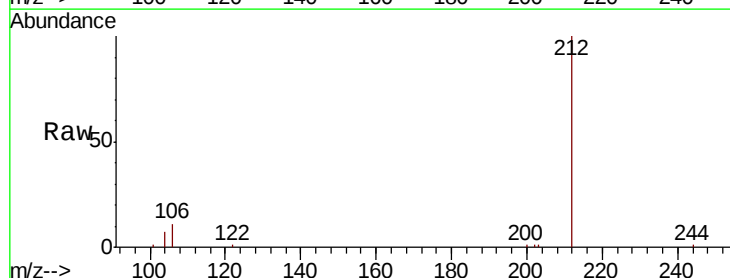
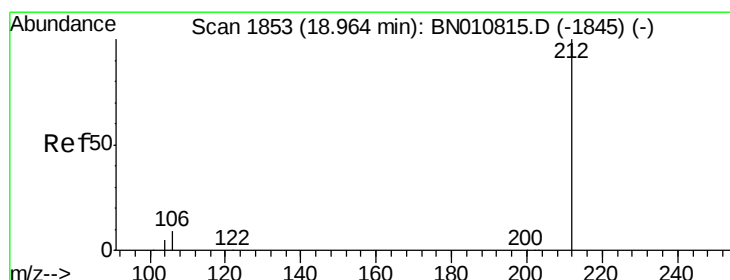
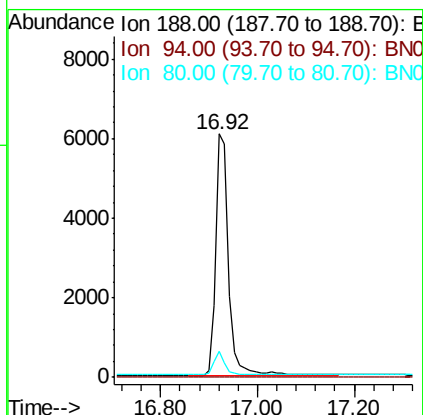
Tot Ion:188 Resp: 11163

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.7 4.5 6.7#



#25

Fluoranthene-d10

Concen: 0.374 ng

RT: 18.96 min Scan# 1853

Delta R.T. 0.02 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

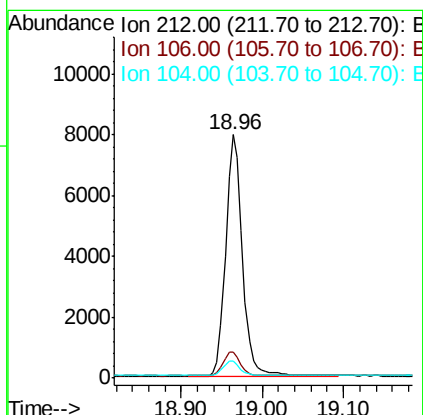
Tgt Ion:212 Resp: 11518

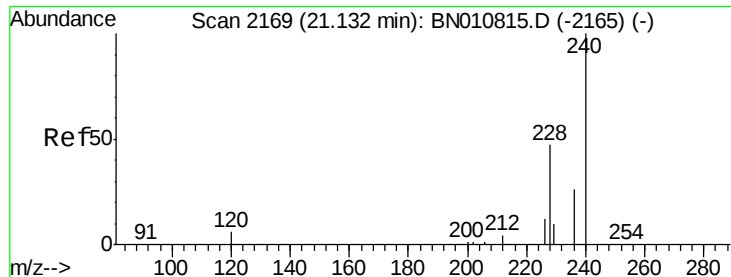
Ion Ratio Lower Upper

212 100

106 10.1 6.6 10.0#

104 5.8 4.0 6.0





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.13 min Scan# 2169

Delta R.T. 0.01 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

Instrument :

BNA\_N

ClientSampleId :

RE132D3-20200608

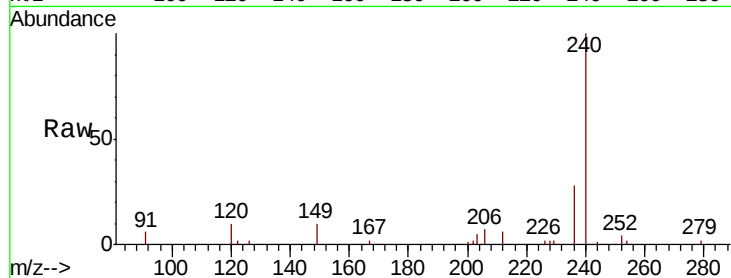
Tot Ion:240 Resp: 10762

Ion Ratio Lower Upper

240 100

120 10.0 7.5 11.3

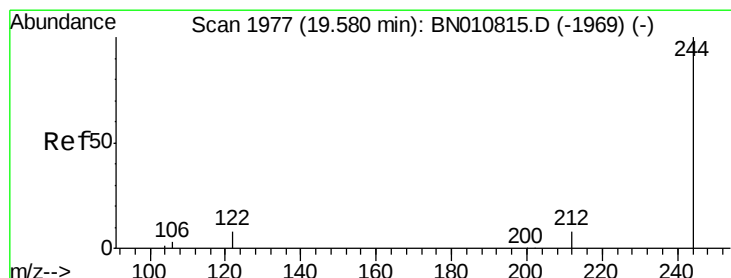
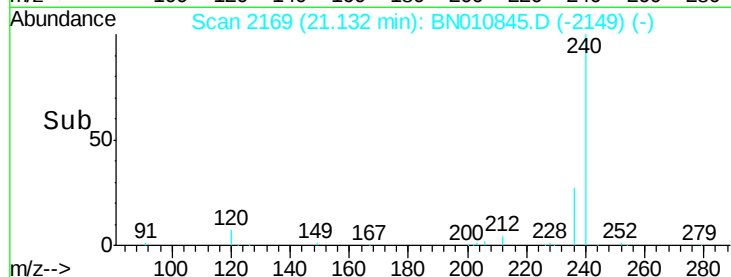
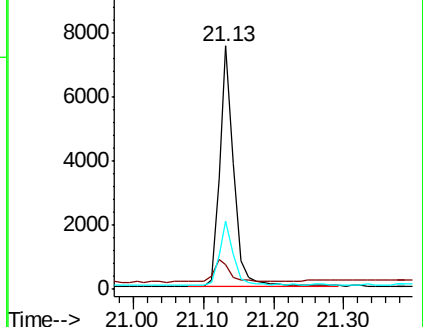
236 28.1 22.3 33.5



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



#29

Terphenyl-d14

Concen: 0.451 ng

RT: 19.57 min Scan# 1976

Delta R.T. 0.01 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

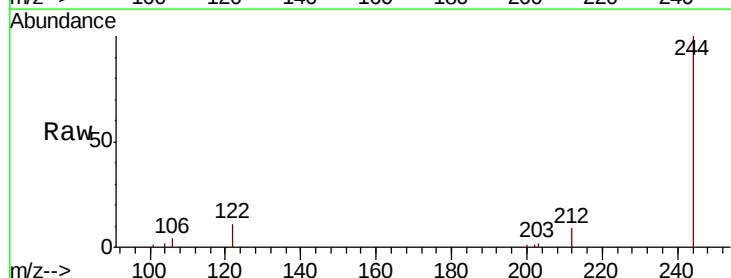
Tgt Ion:244 Resp: 11372

Ion Ratio Lower Upper

244 100

212 8.7 7.4 11.2

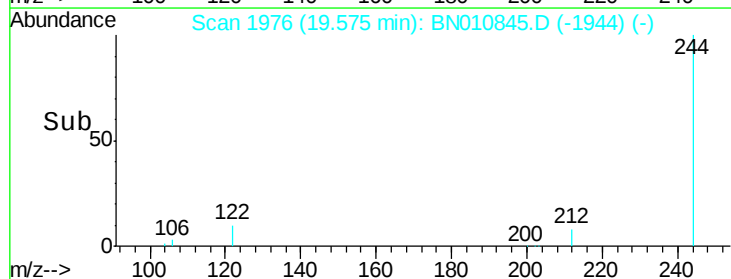
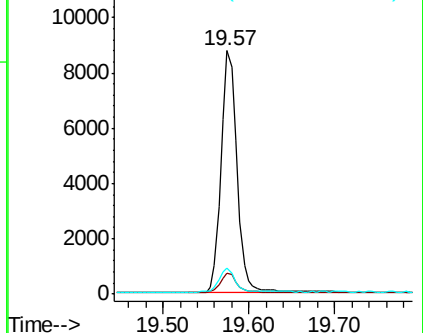
122 10.7 7.5 11.3

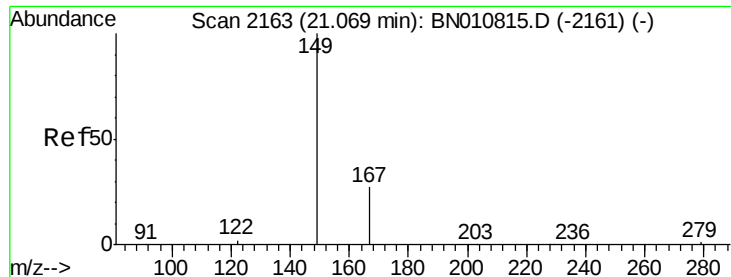


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.223 ng

RT: 21.07 min Scan# 2163

Delta R.T. 0.01 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

Instrument :

BNA\_N

ClientSampleId :

RE132D3-20200608

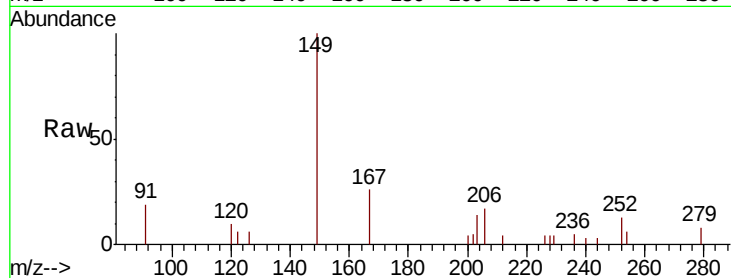
Tot Ion:149 Resp: 2350

Ion Ratio Lower Upper

149 100

167 28.7 24.1 36.1

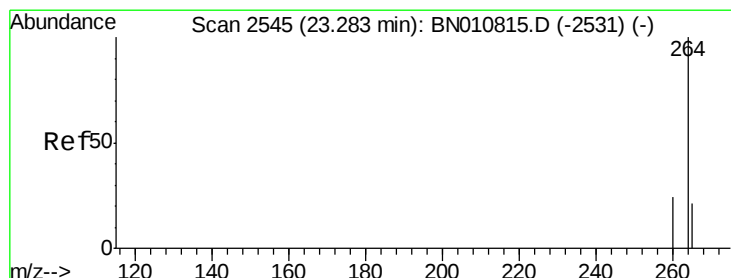
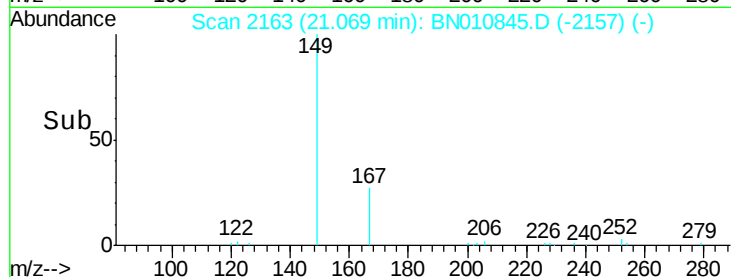
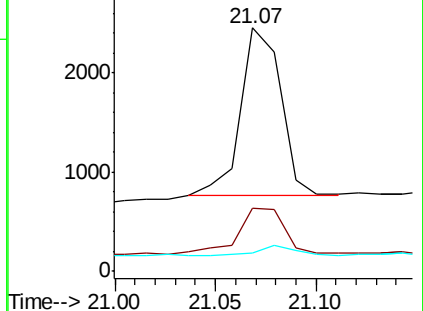
279 5.4 4.6 7.0



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

Perylene-d12

Concen: 0.400 ng

RT: 23.28 min Scan# 2545

Delta R.T. 0.02 min

Lab File: BN010845.D

Acq: 12 Jun 2020 14:45

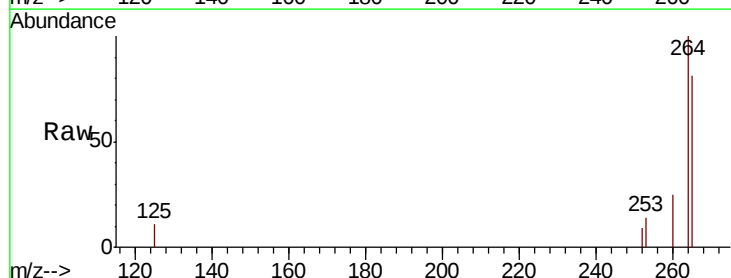
Tgt Ion:264 Resp: 11640

Ion Ratio Lower Upper

264 100

260 24.6 20.4 30.6

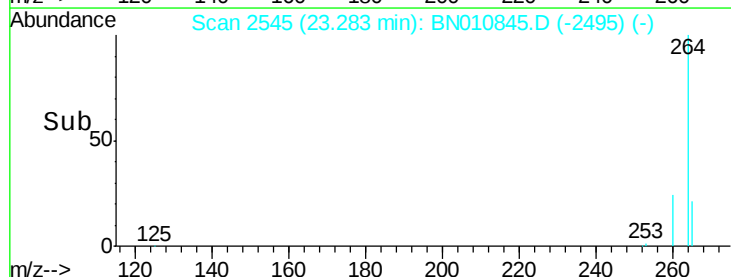
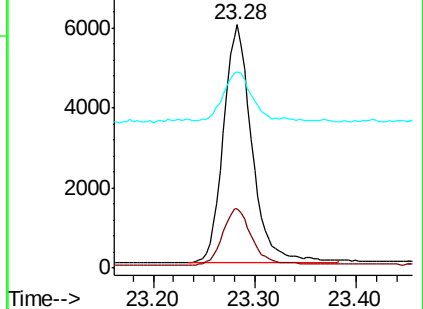
265 80.8 75.0 112.4

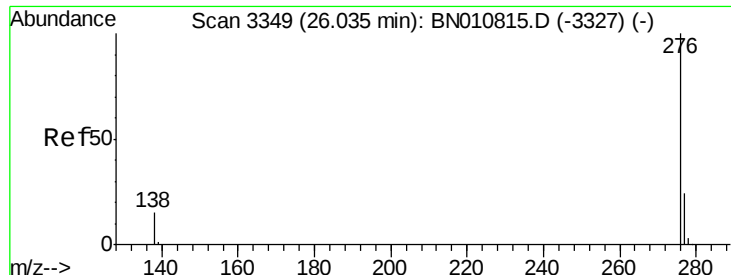


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.030 ng

RT: 26.03 min Scan# 3349

Delta R.T. 0.04 min

Lab File: BN010845.D

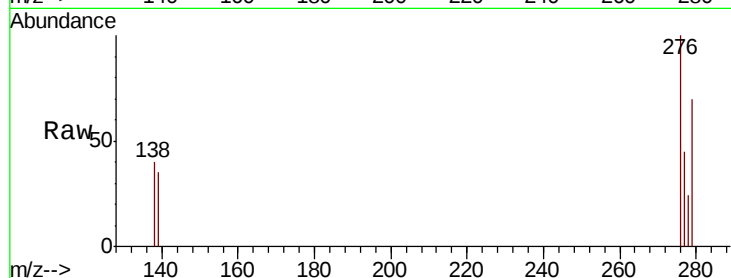
Acq: 12 Jun 2020 14:45

Instrument :

BNA\_N

ClientSampleId :

RE132D3-20200608



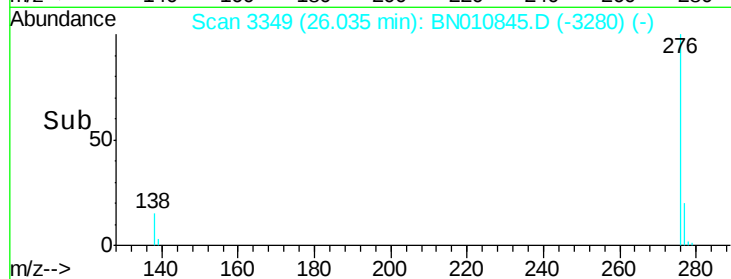
Tot Ion: 276 Resp: 1220

Ion Ratio Lower Upper

276 100

277 44.7 20.5 30.7#

138 39.9 13.7 20.5#



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

