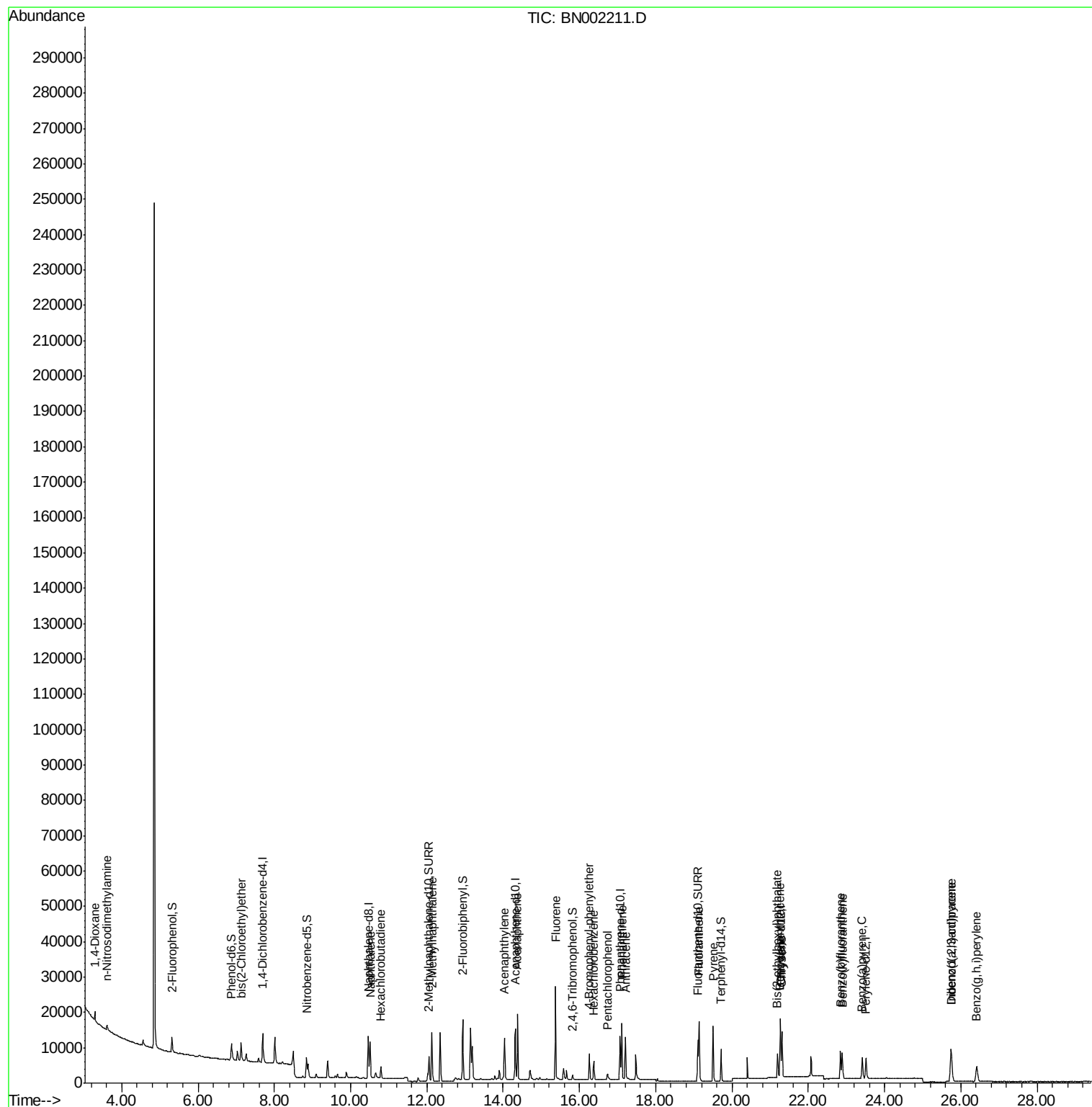
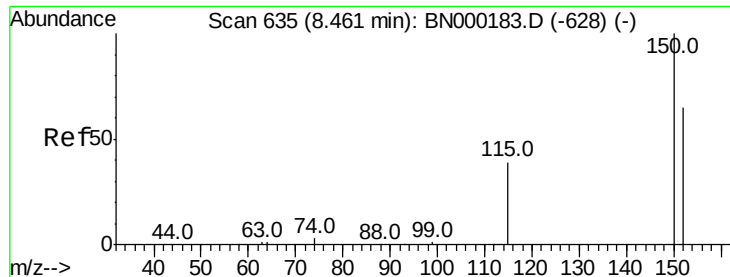


Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN073118\
Data File : BN002211.D
Acq On : 31 Jul 2018 15:05
Operator : JU/SJ
Sample : PB111487BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB111487BS

Quant Time: Jul 31 16:03:35 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jul 30 16:17:29 2018
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.69 min Scan# 579

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

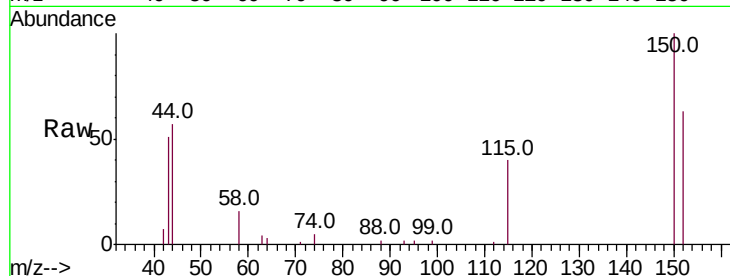
Tot Ion:152 Resp: 4247

Ion Ratio Lower Upper

152 100

150 158.9 117.2 175.8

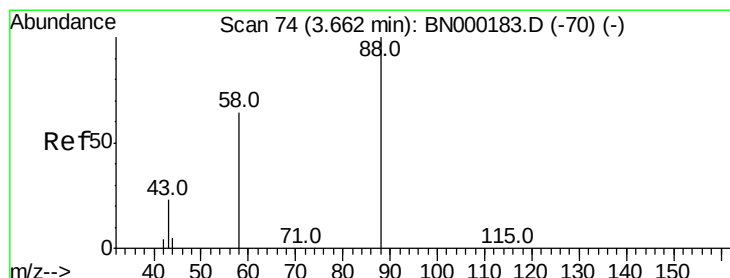
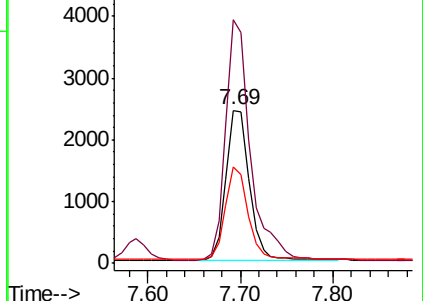
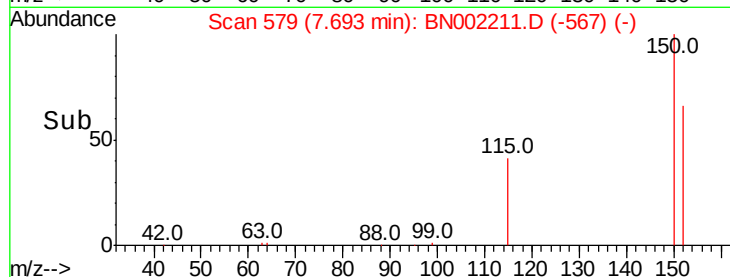
115 63.0 57.0 85.6



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: 0.279 ng

RT: 3.30 min Scan# 33

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

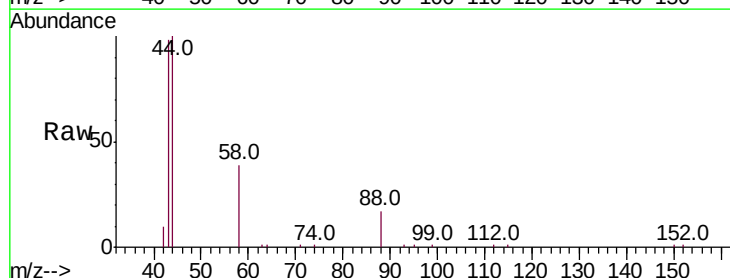
Tgt Ion: 88 Resp: 1335

Ion Ratio Lower Upper

88 100

58 97.2 72.0 108.0

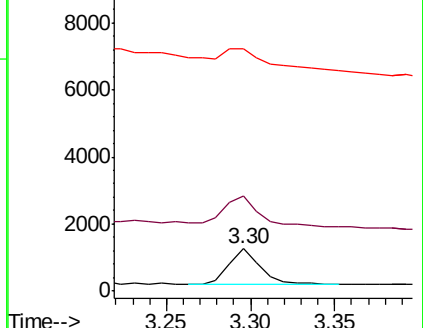
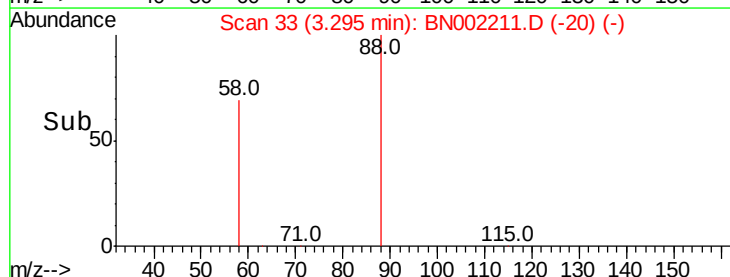
43 75.8 28.0 42.0#

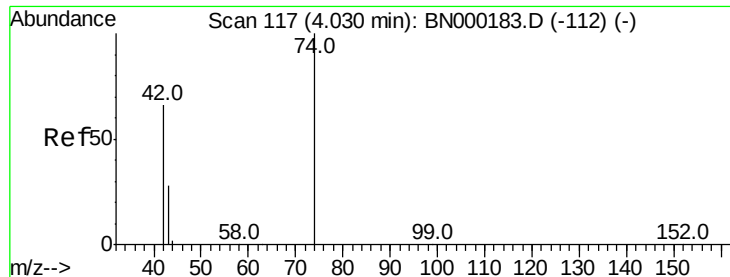


Abundance Ion 88.00 (87.70 to 88.70): BNC

Ion 58.00 (57.70 to 58.70): BNC

Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.426 ng

RT: 3.61 min Scan# 72

Delta R.T. 0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

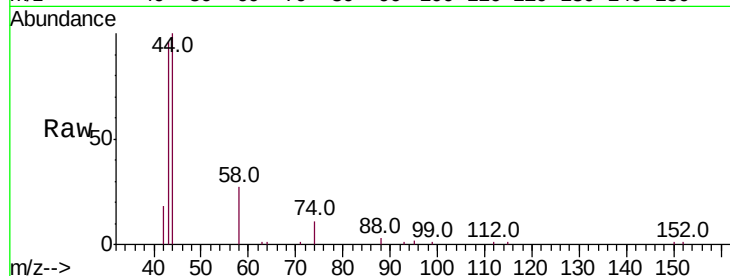
Tot Ion: 42 Resp: 1357

Ion Ratio Lower Upper

42 100

74 118.9 88.0 132.0

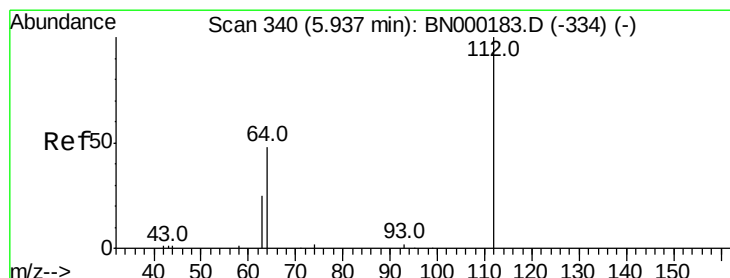
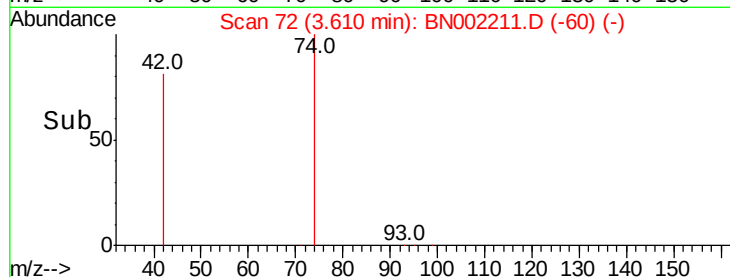
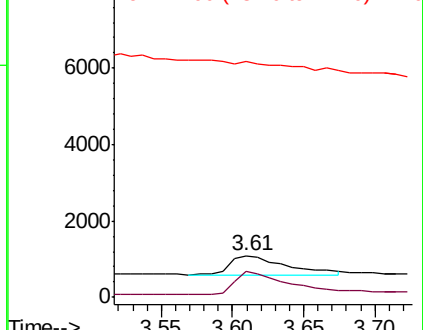
44 0.0 16.0 24.0#



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: 0.396 ng

RT: 5.32 min Scan# 284

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

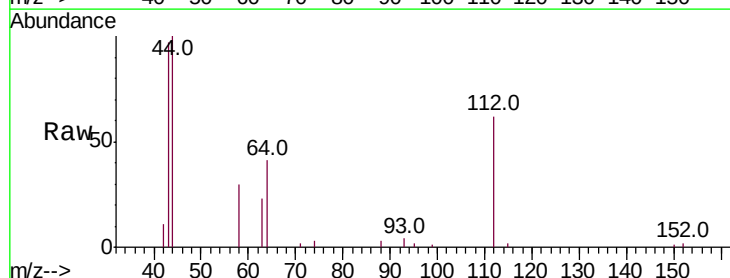
Tgt Ion: 112 Resp: 3929

Ion Ratio Lower Upper

112 100

64 63.3 60.1 90.1

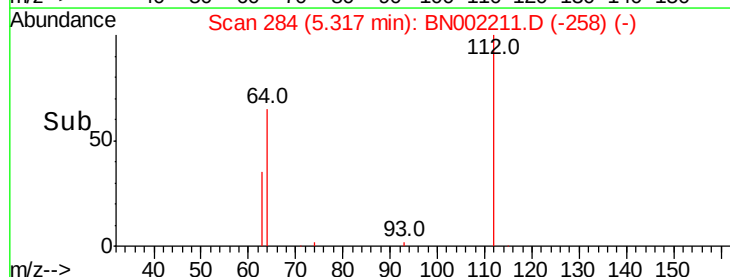
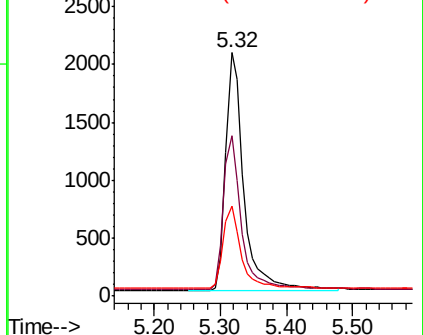
63 33.9 116.8 175.2#

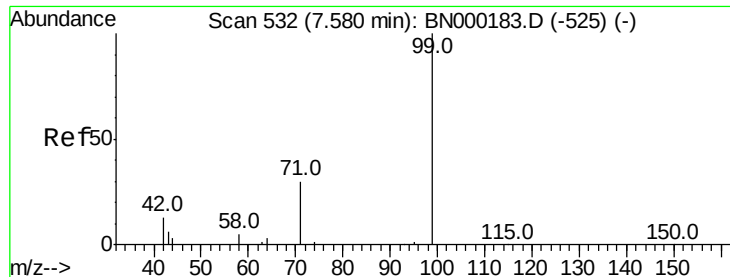


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.392 ng

RT: 6.88 min Scan# 478

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

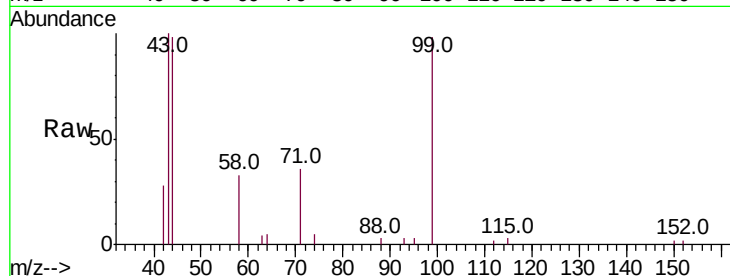
Tot Ion: 99 Resp: 4720

Ion Ratio Lower Upper

99 100

42 23.4 20.2 30.2

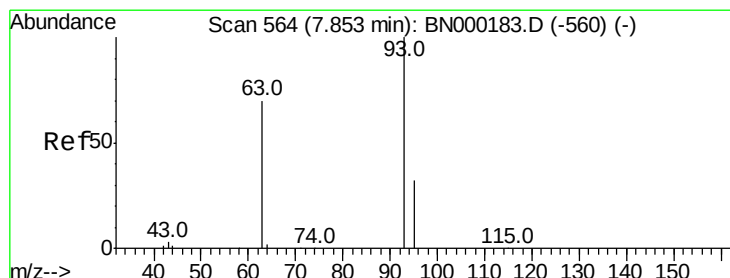
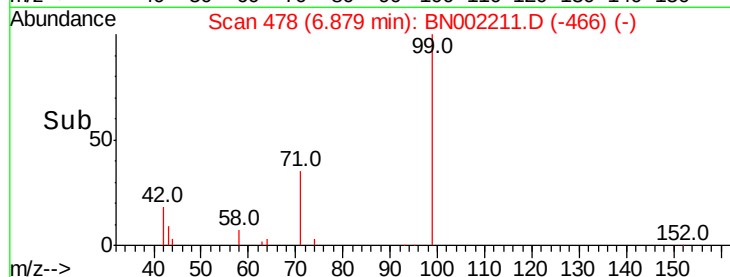
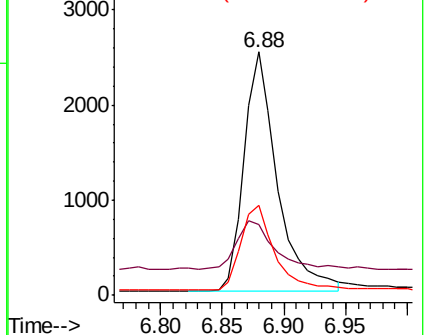
71 36.1 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

Ion 71.00 (70.70 to 71.70): BNC



#6

bis(2-Chloroethyl)ether

Concen: 0.375 ng

RT: 7.13 min Scan# 509

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

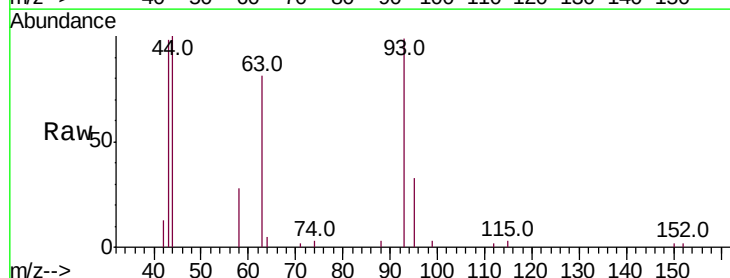
Tgt Ion: 93 Resp: 4342

Ion Ratio Lower Upper

93 100

63 80.0 56.0 84.0

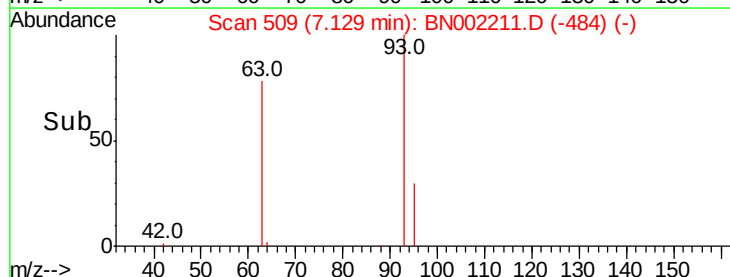
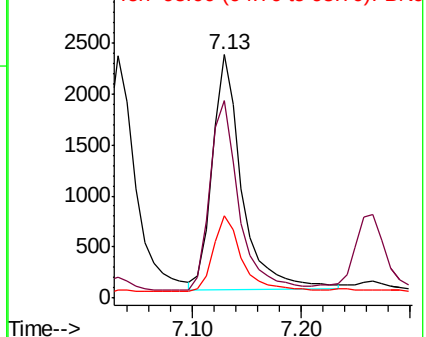
95 31.6 25.2 37.8

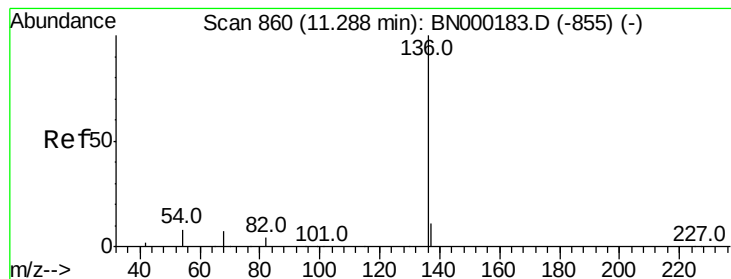


Abundance Ion 93.00 (92.70 to 93.70): BNC

Ion 63.00 (62.70 to 63.70): BNC

Ion 95.00 (94.70 to 95.70): BNC





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

Tot Ion:136 Resp: 17103

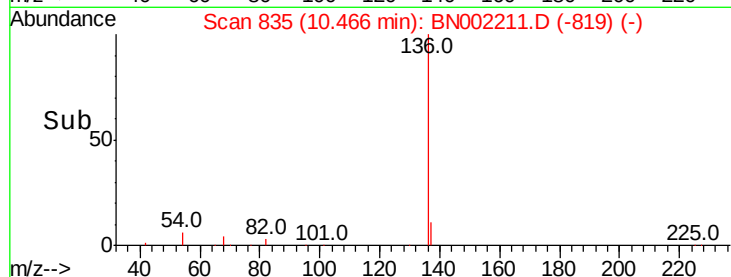
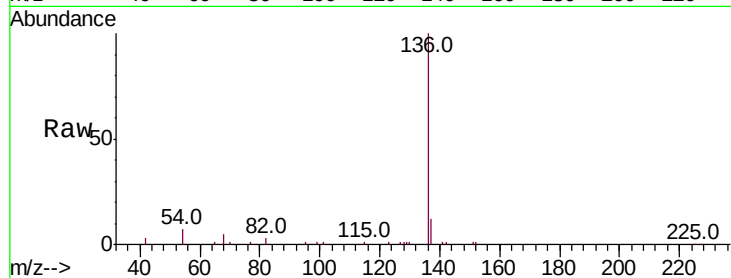
Ion Ratio Lower Upper

136 100

137 11.6 9.5 14.3

54 6.7 29.1 43.7#

68 4.7 6.2 9.2#

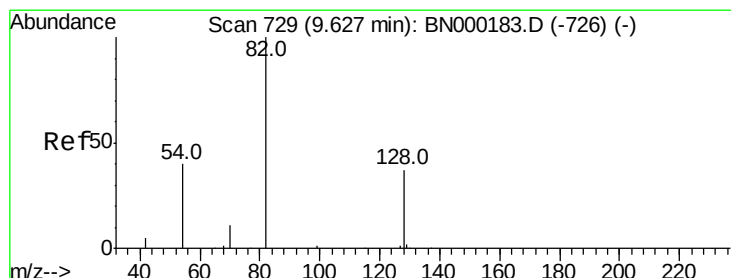
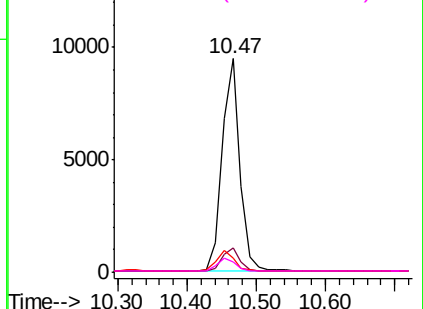


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.421 ng

RT: 8.84 min Scan# 707

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

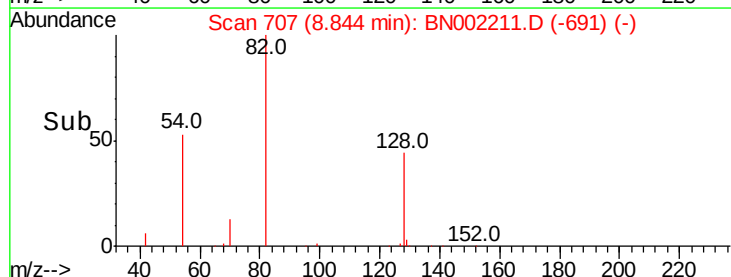
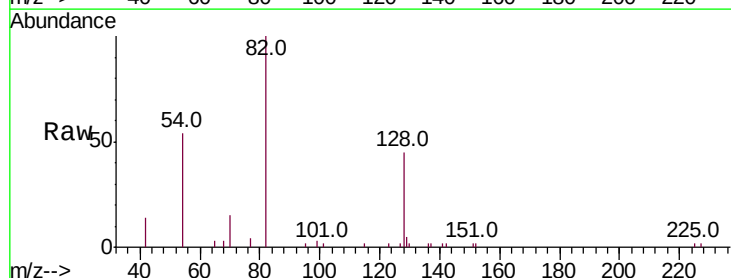
Tgt Ion: 82 Resp: 5423

Ion Ratio Lower Upper

82 100

128 45.0 150.0 225.0#

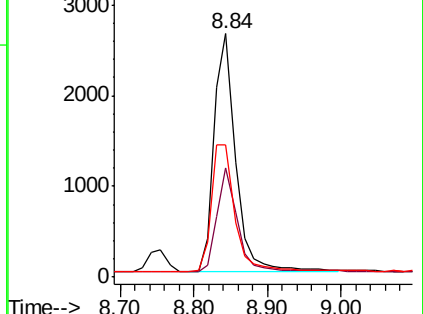
54 54.5 154.2 231.4#

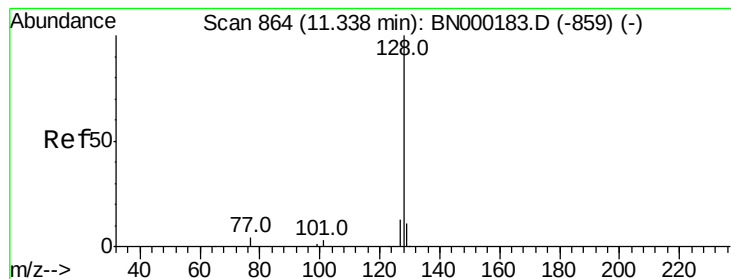


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.399 ng

RT: 10.52 min Scan# 839

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

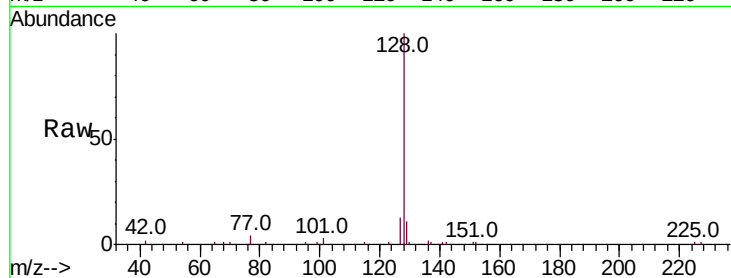
Tot Ion:128 Resp: 15388

Ion Ratio Lower Upper

128 100

129 11.3 8.0 12.0

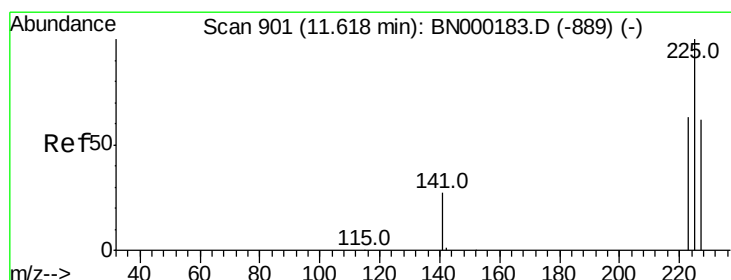
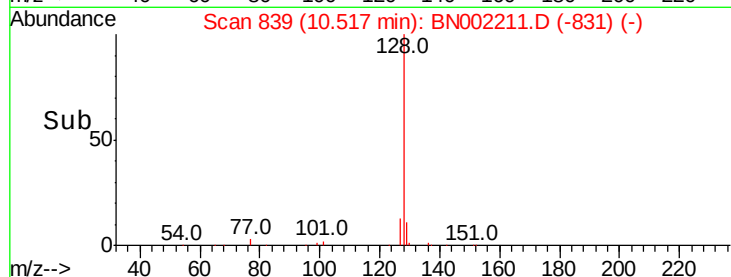
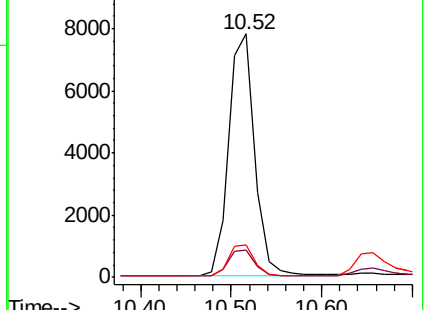
127 13.3 9.6 14.4



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



#10

Hexachlorobutadiene

Concen: 0.343 ng

RT: 10.80 min Scan# 861

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

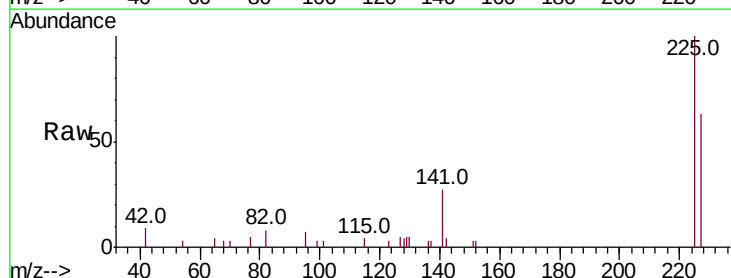
Tgt Ion:225 Resp: 2863

Ion Ratio Lower Upper

225 100

223 0.0 52.0 78.0#

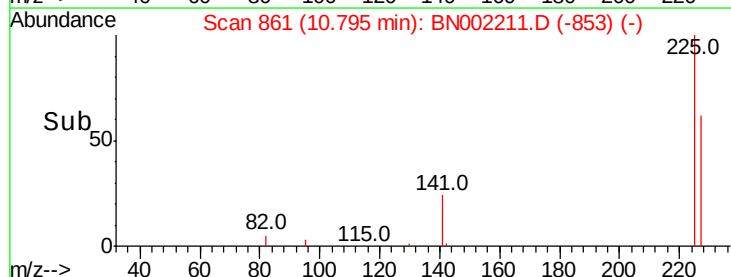
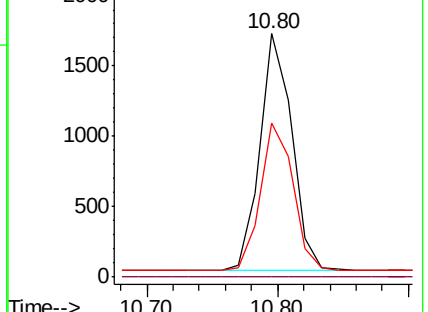
227 63.5 48.0 72.0

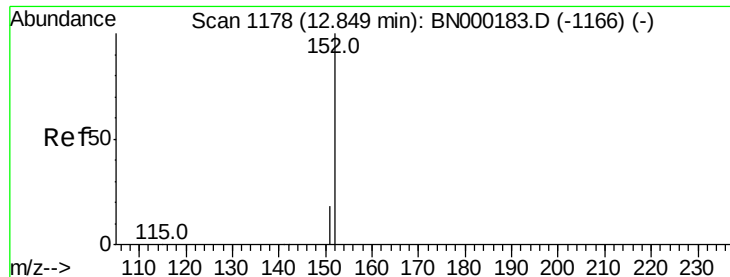


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

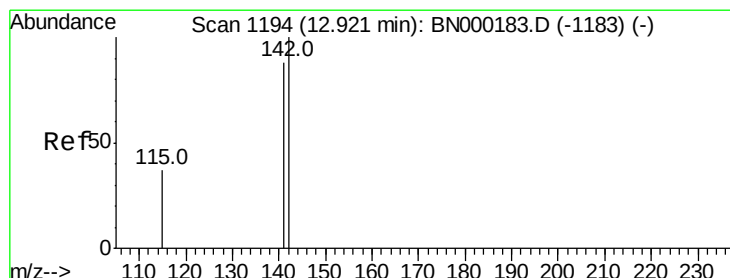
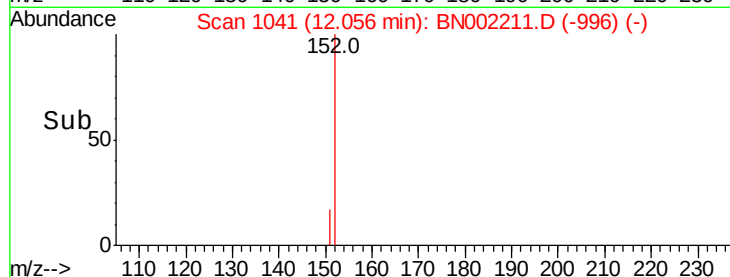
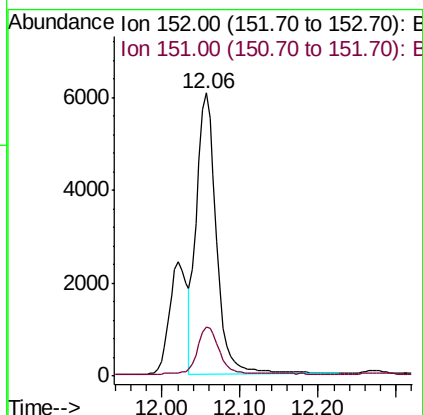
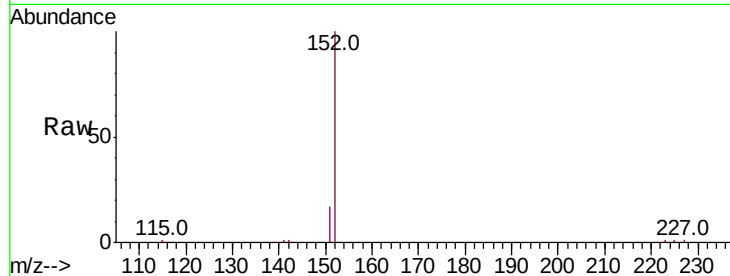




#11
 2-Methylnaphthalene-d10
 Concen: 0.420 ng
 RT: 12.06 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: BN002211.D
 Acq: 31 Jul 2018 15:05

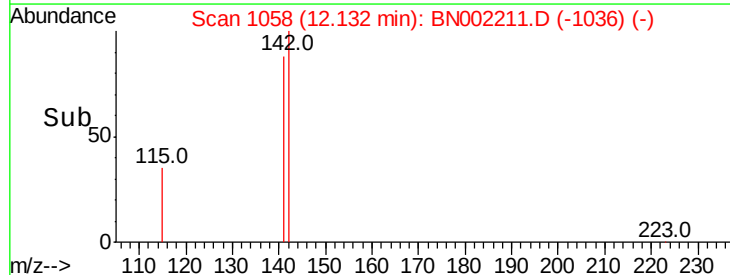
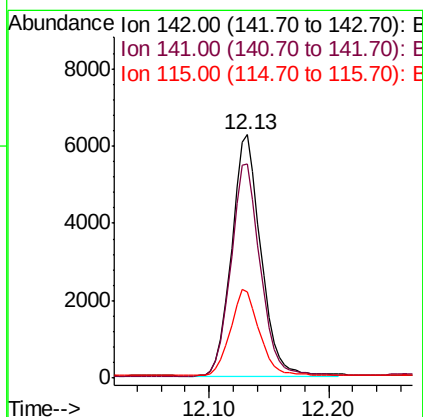
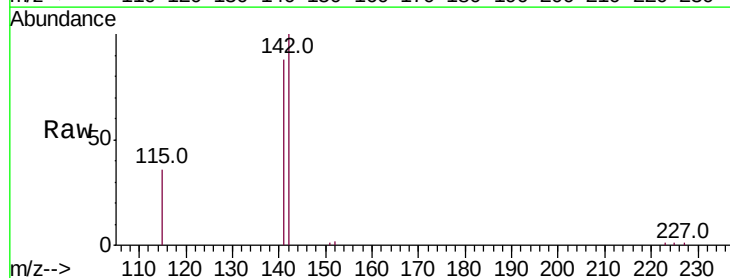
Instrument :
 BNA_N
 ClientSampleId :
 PB111487BS

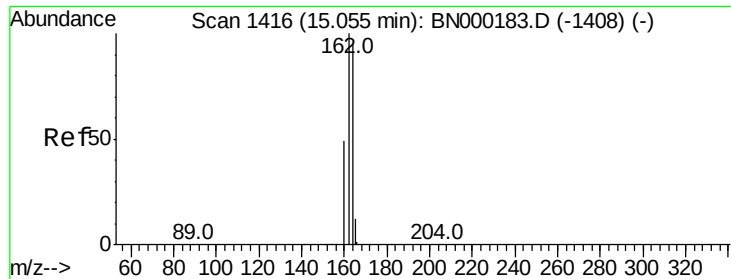
Tot Ion:152 Resp: 10586
 Ion Ratio Lower Upper
 152 100
 151 18.4 15.4 23.0



#12
 2-Methylnaphthalene
 Concen: 0.405 ng
 RT: 12.13 min Scan# 1058
 Delta R.T. -0.00 min
 Lab File: BN002211.D
 Acq: 31 Jul 2018 15:05

Tgt Ion:142 Resp: 10570
 Ion Ratio Lower Upper
 142 100
 141 87.8 70.4 105.6
 115 35.6 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.32 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

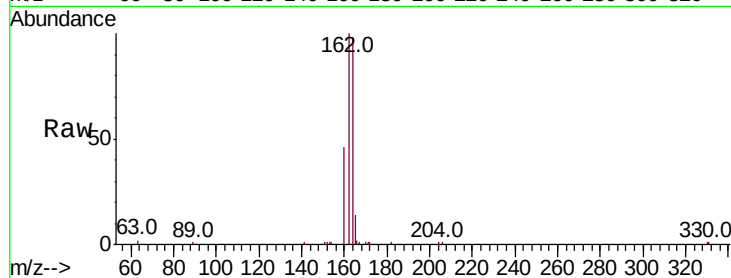
Tot Ion:164 Resp: 8897

Ion Ratio Lower Upper

164 100

162 102.1 83.1 124.7

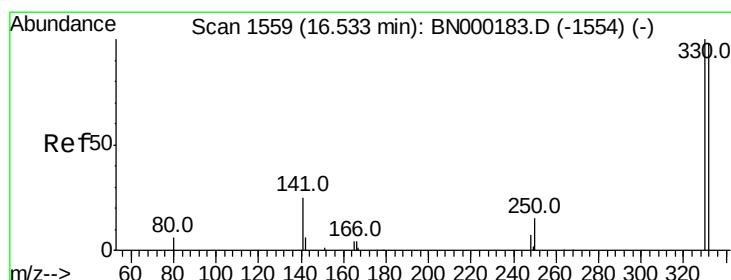
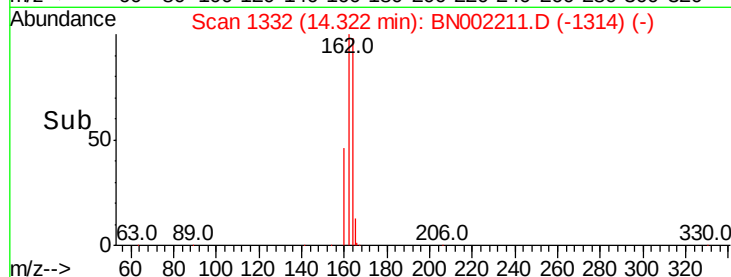
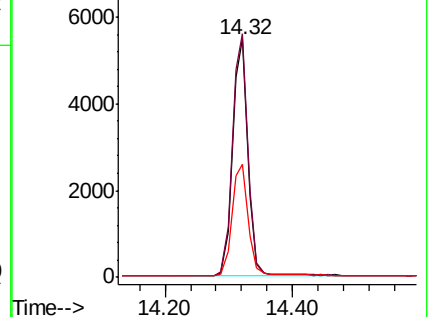
160 47.2 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.319 ng

RT: 15.83 min Scan# 1467

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

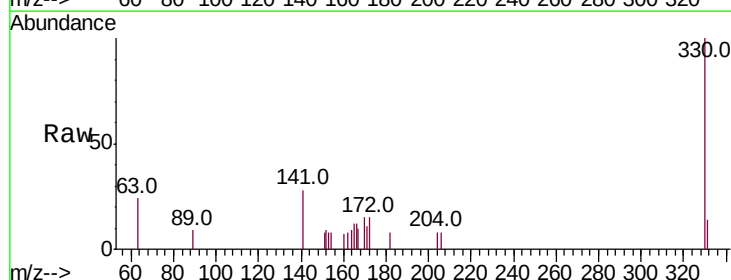
Tgt Ion:330 Resp: 1214

Ion Ratio Lower Upper

330 100

332 0.0 152.7 229.1#

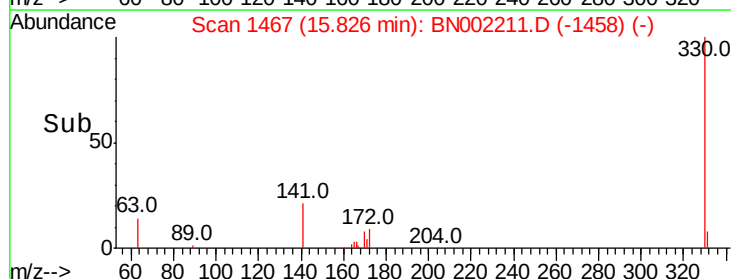
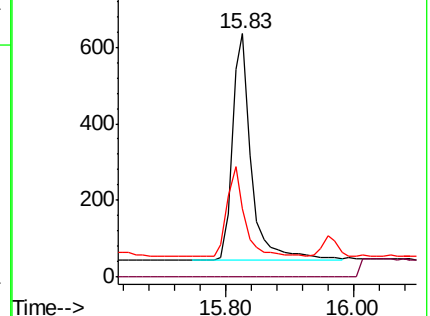
141 36.6 33.7 50.5

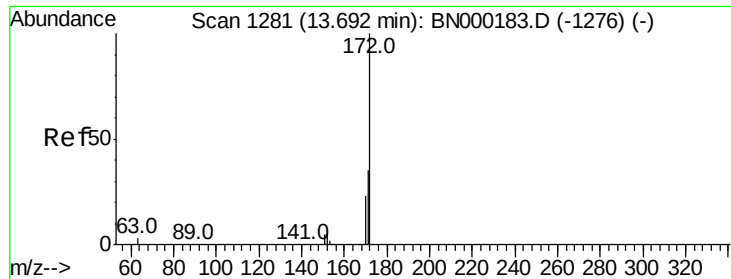


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.462 ng

RT: 12.94 min Scan# 1208

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

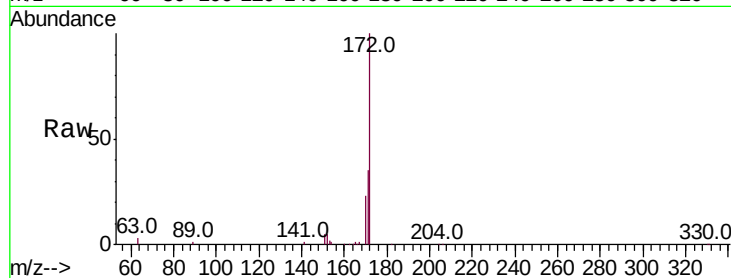
BNA_N

ClientSampleId :

PB111487BS

Tot Ion:172 Resp: 15793

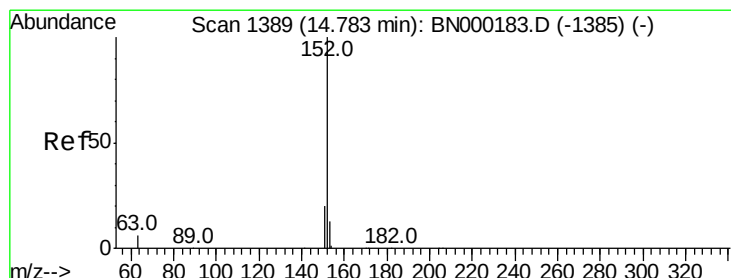
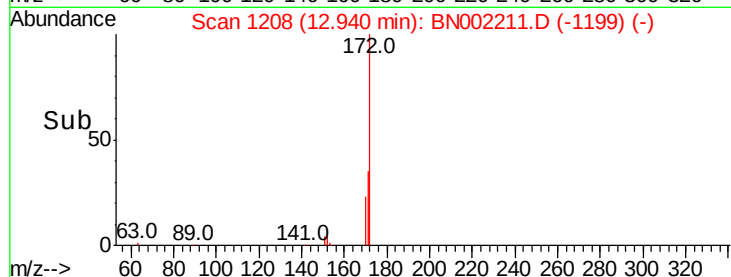
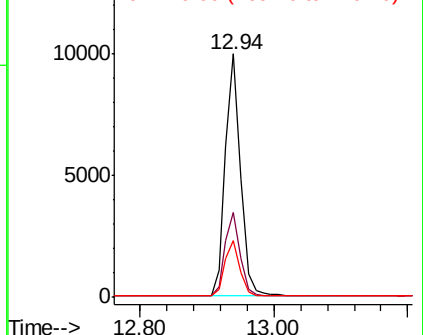
Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.9	44.9
170	23.1	21.8	32.8



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: 0.379 ng

RT: 14.03 min Scan# 1306

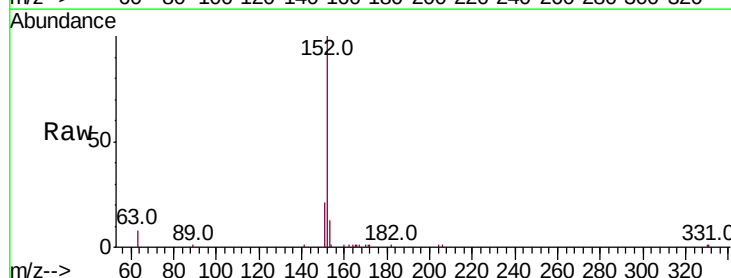
Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Tgt Ion:152 Resp: 14406

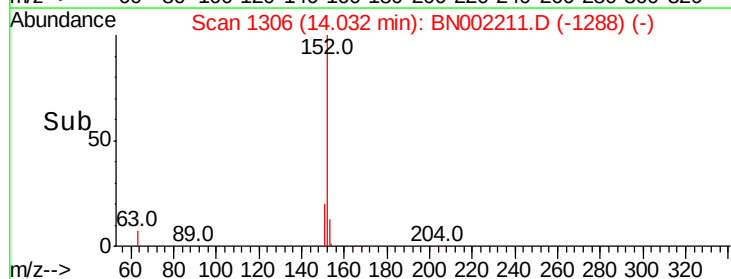
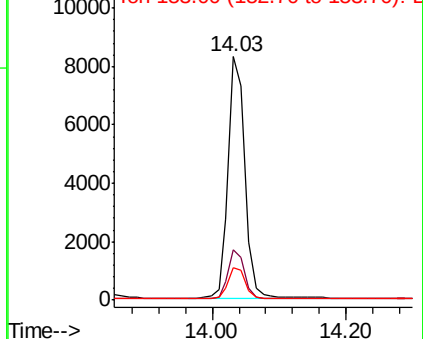
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	13.1	10.5	15.7

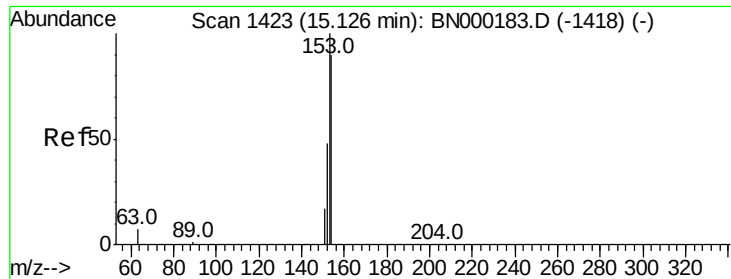


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.387 ng

RT: 14.38 min Scan# 1337

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

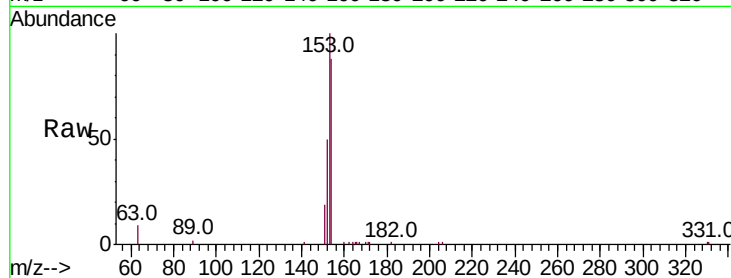
Tot Ion:154 Resp: 9450

Ion Ratio Lower Upper

154 100

153 112.4 89.2 133.8

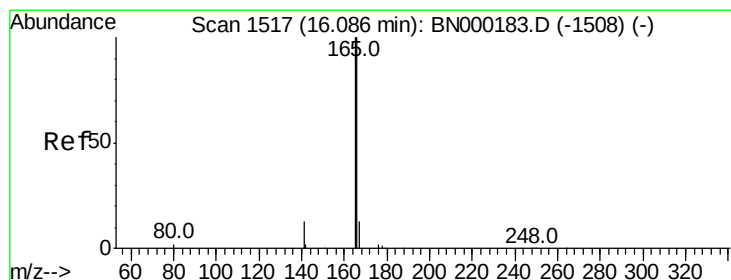
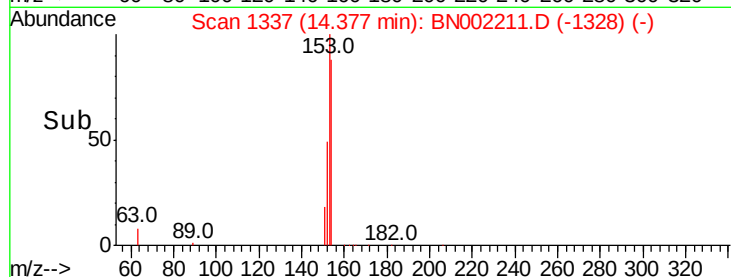
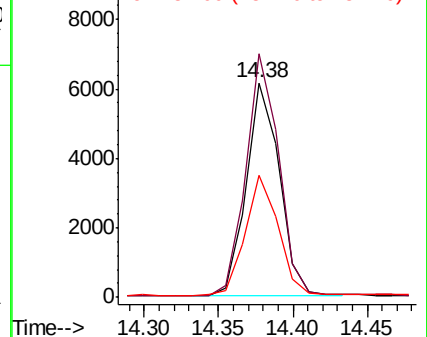
152 55.9 42.0 63.0



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: 0.388 ng

RT: 15.37 min Scan# 1426

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

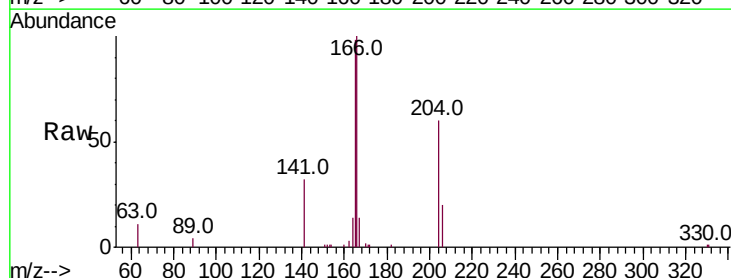
Tgt Ion:166 Resp: 11656

Ion Ratio Lower Upper

166 100

165 97.5 77.8 116.6

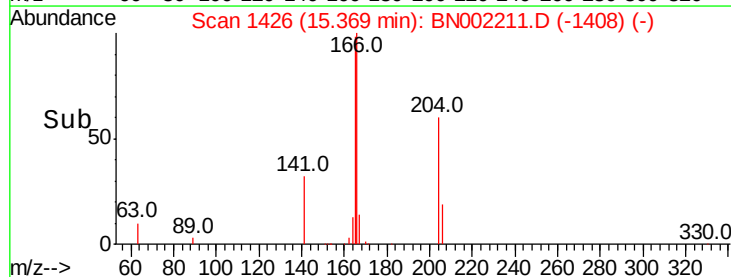
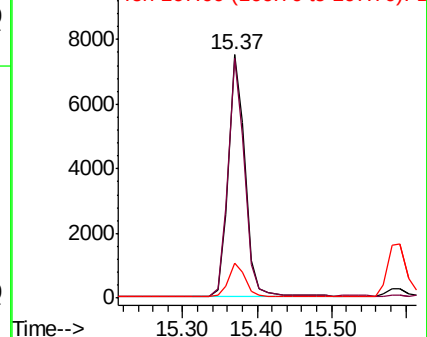
167 13.6 42.4 63.6#

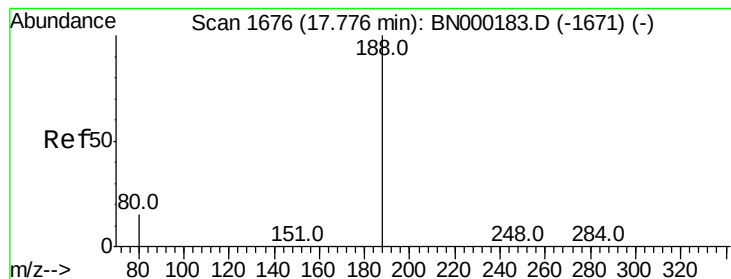


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.07 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

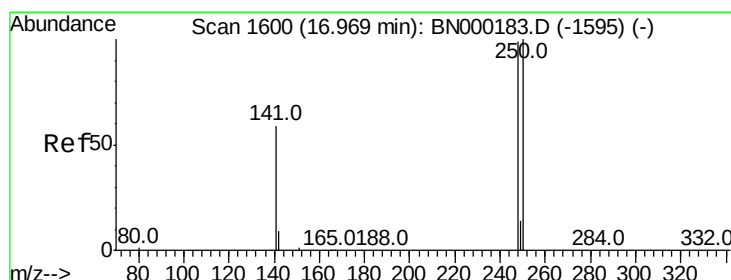
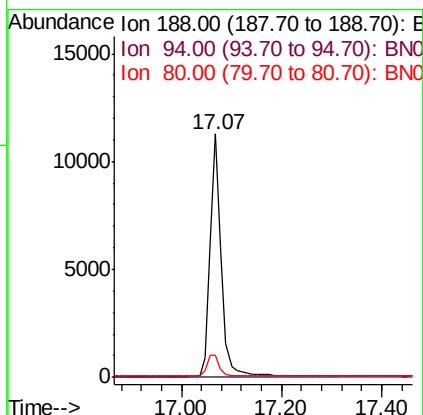
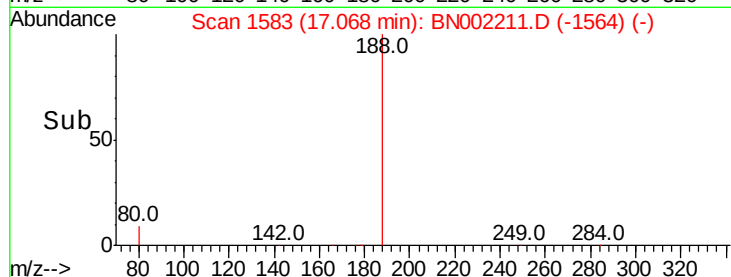
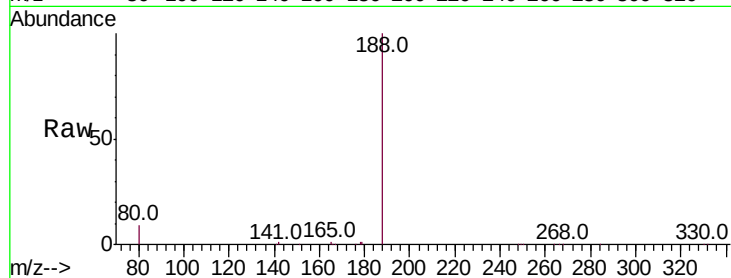
Tot Ion:188 Resp: 17611

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 9.0 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.374 ng

RT: 16.26 min Scan# 1507

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

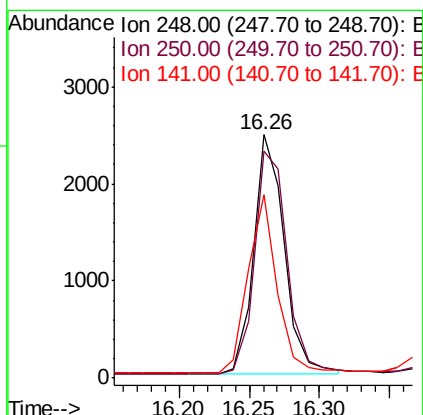
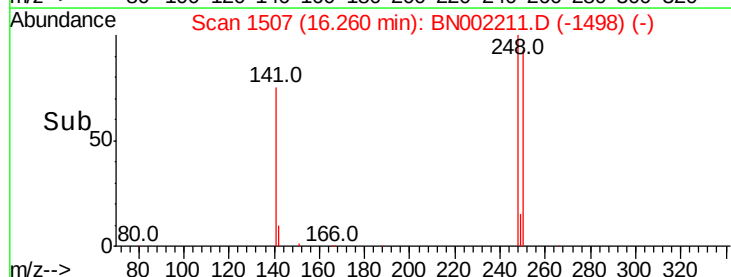
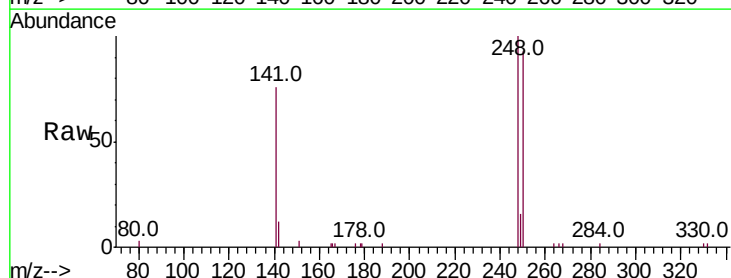
Tgt Ion:248 Resp: 3729

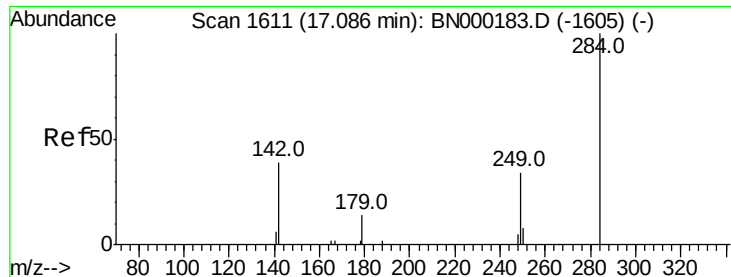
Ion Ratio Lower Upper

248 100

250 93.4 62.7 94.1

141 75.5 48.2 72.2#

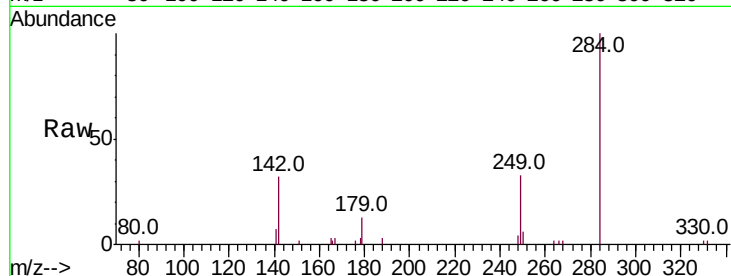




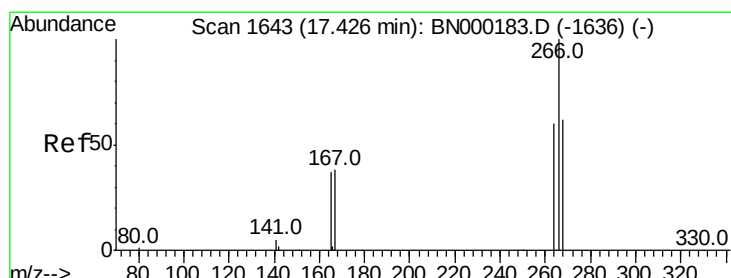
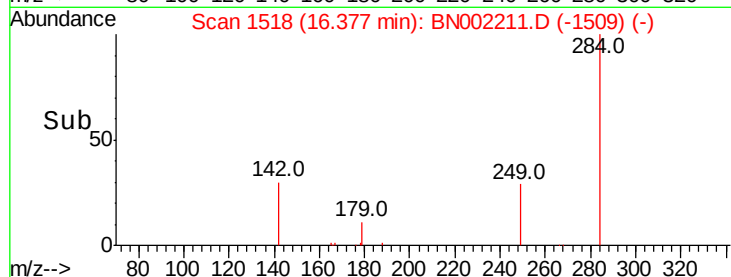
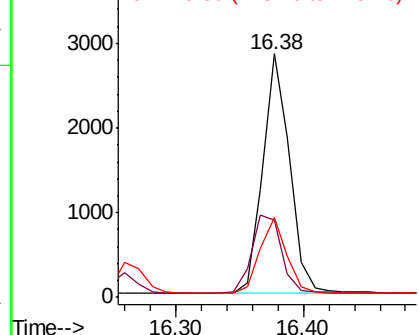
#21
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.38 min Scan# 1518
Delta R.T. -0.00 min
Lab File: BN002211.D
Acq: 31 Jul 2018 15:05

Instrument :
BNA_N
ClientSampleId :
PB111487BS

Tot	Ion:284	Resp:	4151
Ion	Ratio	Lower	Upper
284	100		
142	36.0	32.0	48.0
249	30.7	24.0	36.0

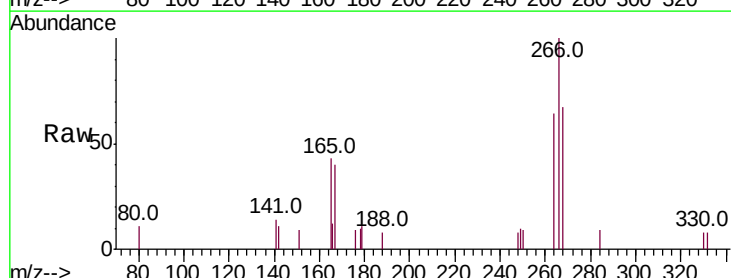


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

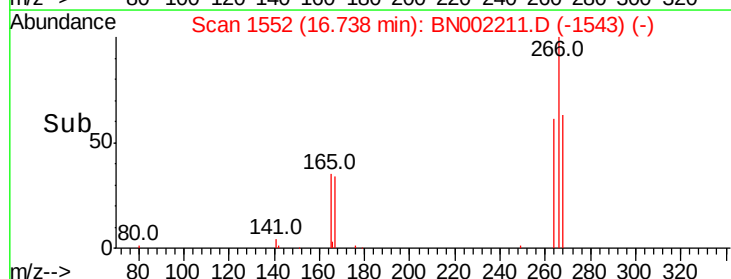
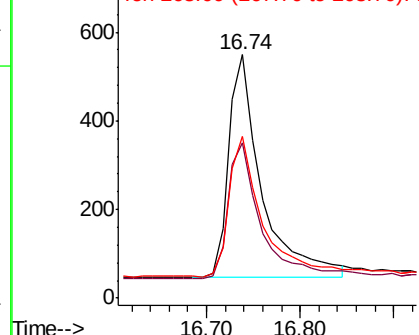


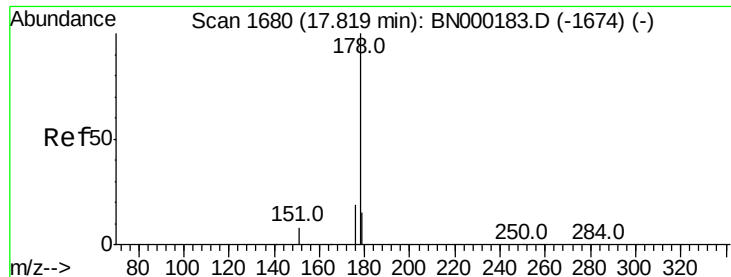
#22
Pentachlorophenol
Concen: 0.540 ng
RT: 16.74 min Scan# 1552
Delta R.T. 0.00 min
Lab File: BN002211.D
Acq: 31 Jul 2018 15:05

Tgt	Ion:266	Resp:	1232
Ion	Ratio	Lower	Upper
266	100		
264	64.1	48.0	72.0
268	66.7	52.0	78.0



Abundance Ion 266.00 (265.70 to 266.70): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.397 ng

RT: 17.11 min Scan# 1587

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

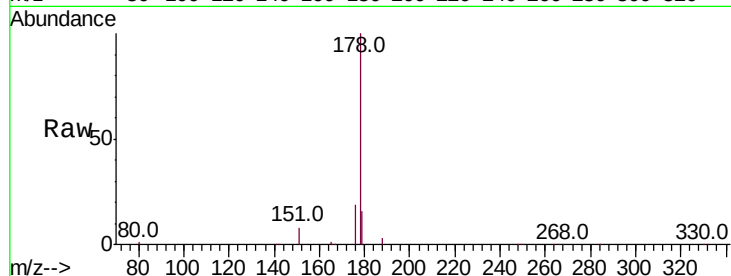
Tot Ion:178 Resp: 17389

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

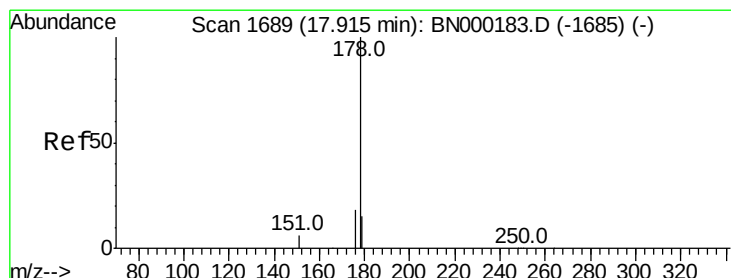
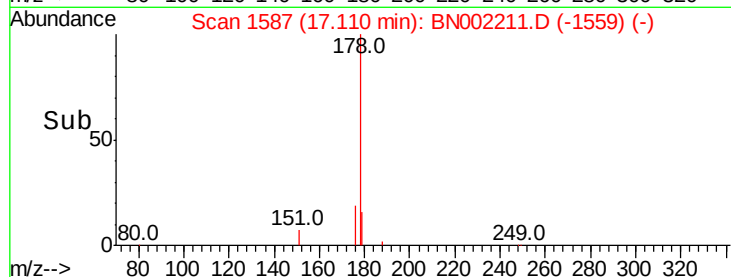
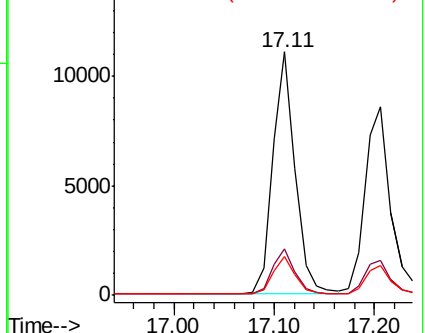
179 15.6 11.8 17.6



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



#24

Anthracene

Concen: 0.401 ng

RT: 17.21 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

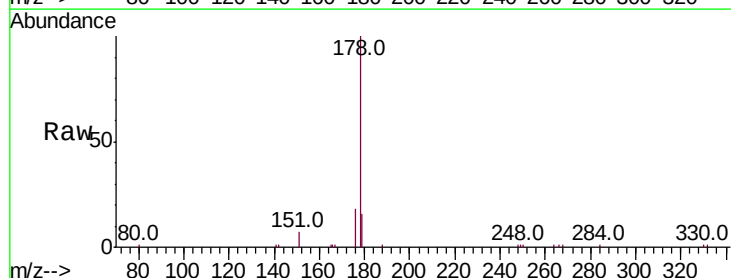
Tgt Ion:178 Resp: 14529

Ion Ratio Lower Upper

178 100

176 18.5 12.8 19.2

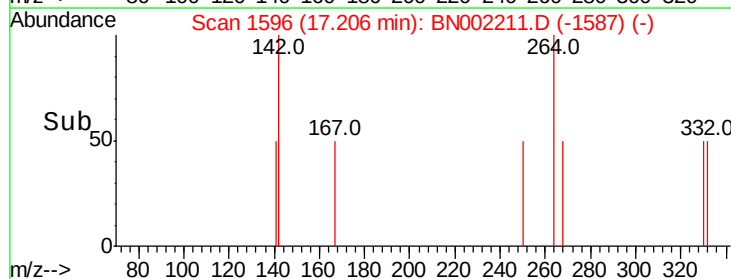
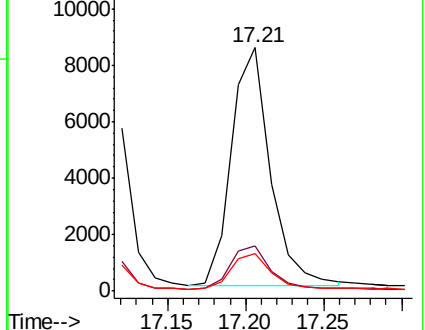
179 15.3 13.0 19.6

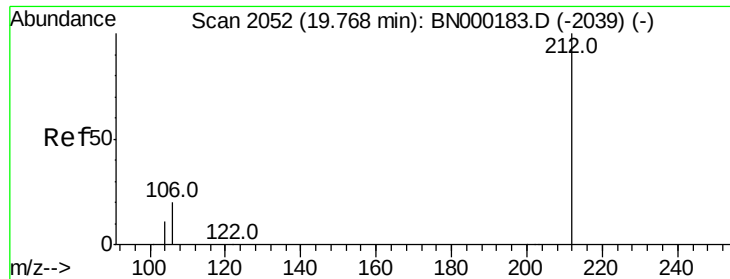


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.354 ng

RT: 19.11 min Scan# 1892

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

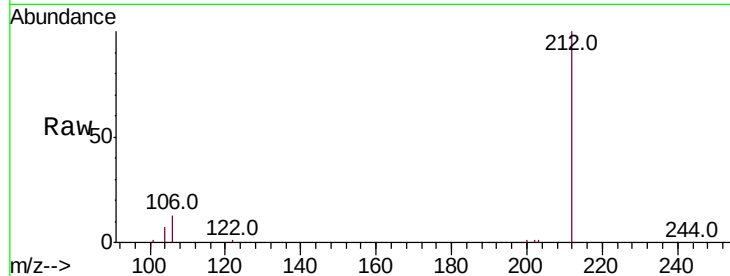
Tot Ion:212 Resp: 15392

Ion Ratio Lower Upper

212 100

106 11.8 2.8 4.2#

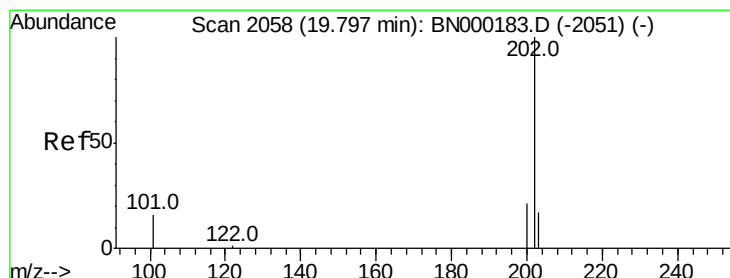
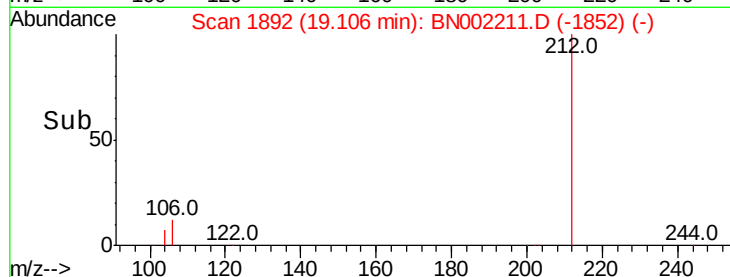
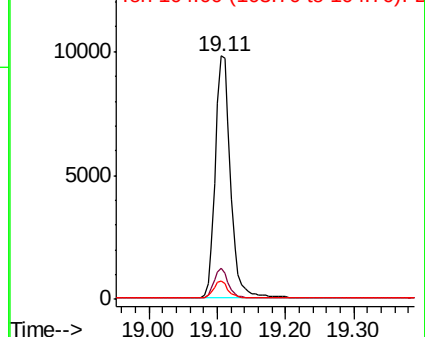
104 6.6 1.6 2.4#



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: 0.347 ng

RT: 19.14 min Scan# 1898

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

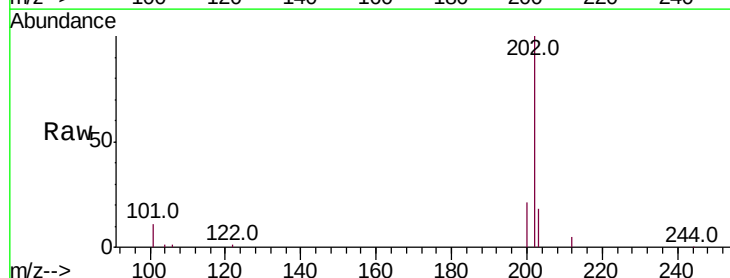
Tgt Ion:202 Resp: 16567

Ion Ratio Lower Upper

202 100

101 9.6 9.8 14.8#

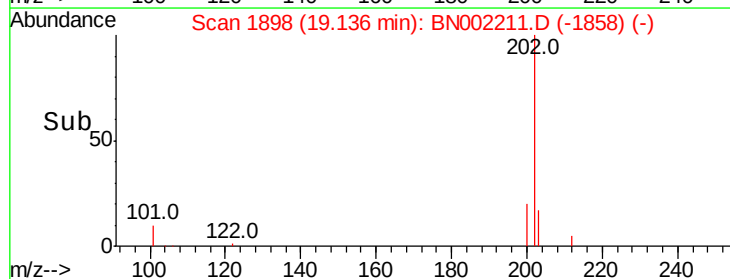
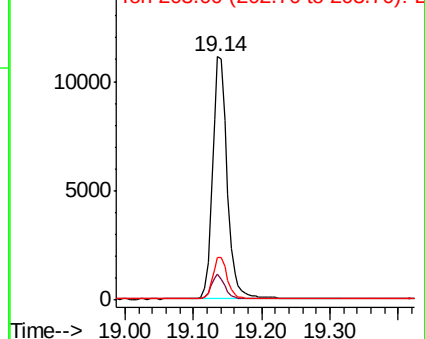
203 17.2 13.7 20.5

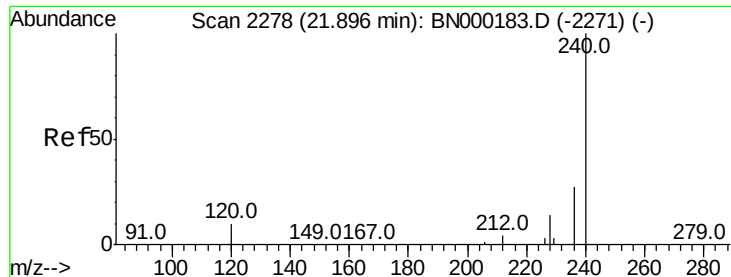


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.28 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

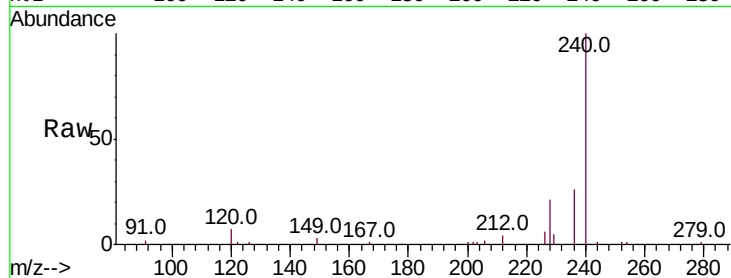
Tot Ion:240 Resp: 10757

Ion Ratio Lower Upper

240 100

120 7.5 5.5 8.3

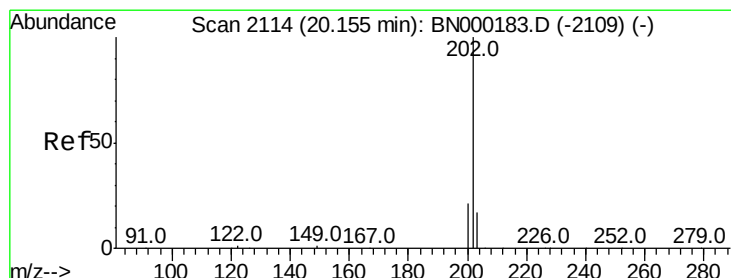
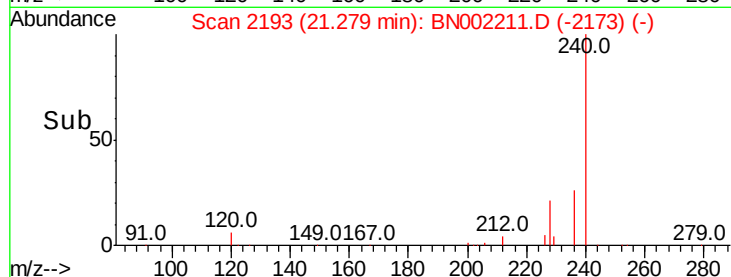
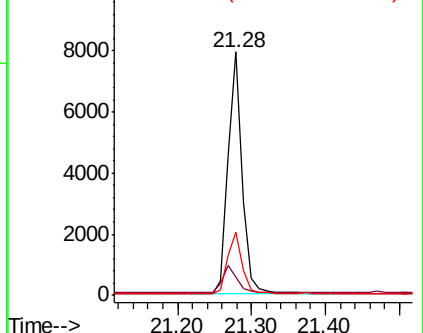
236 26.2 20.7 31.1



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: 0.487 ng

RT: 19.50 min Scan# 1972

Delta R.T. 0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

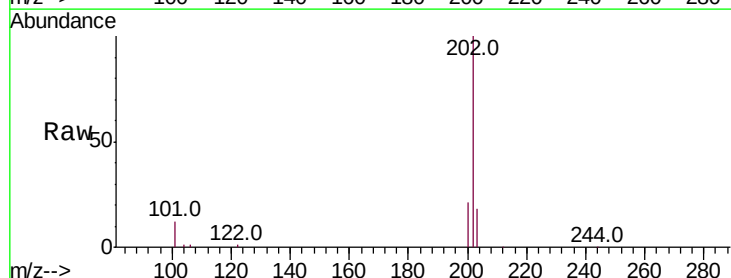
Tgt Ion:202 Resp: 15511

Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

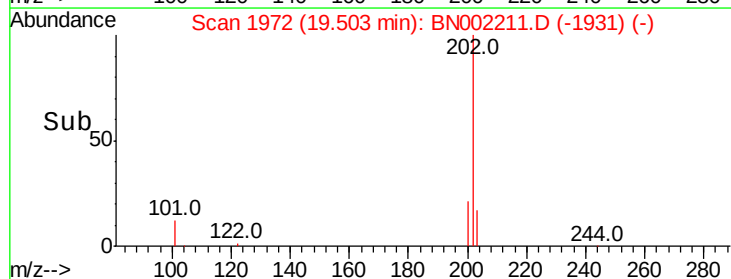
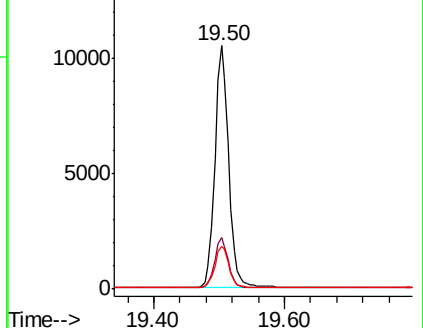
203 18.0 13.8 20.8

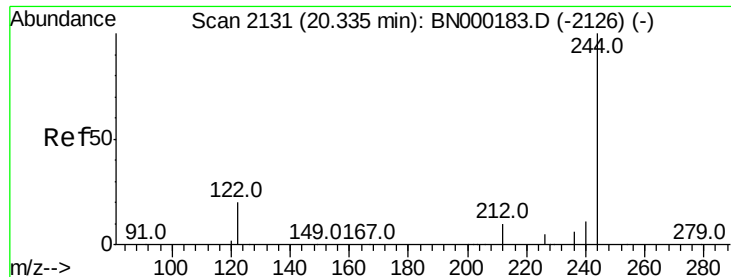


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.453 ng

RT: 19.71 min Scan# 2014

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

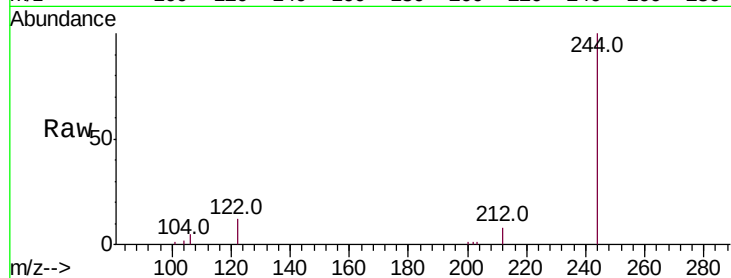
Tot Ion:244 Resp: 10422

Ion Ratio Lower Upper

244 100

212 8.1 25.4 38.0#

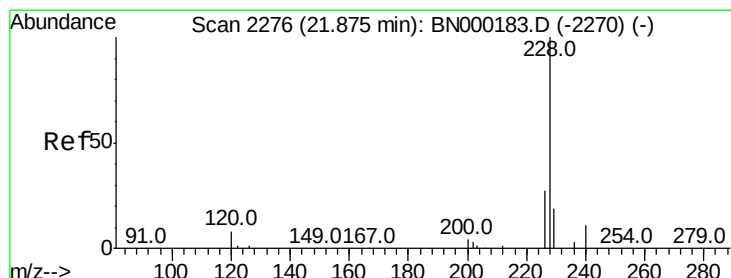
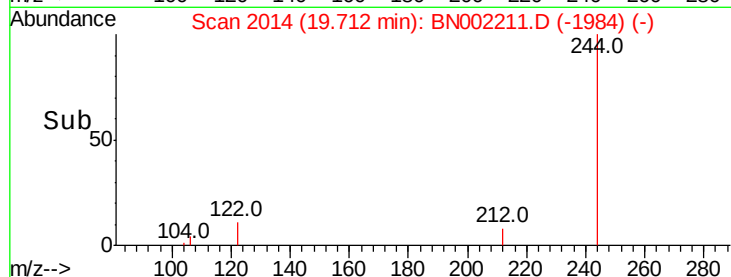
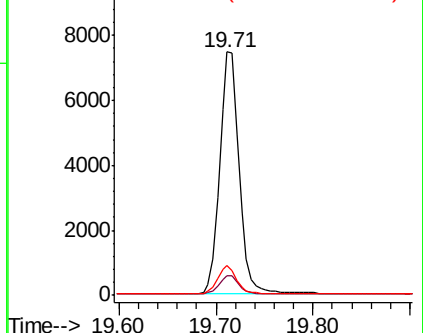
122 12.1 8.1 12.1



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: 0.410 ng

RT: 21.26 min Scan# 2191

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

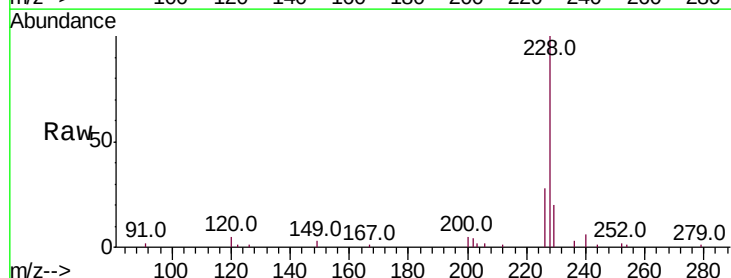
Tgt Ion:228 Resp: 11091

Ion Ratio Lower Upper

228 100

226 28.3 24.0 36.0

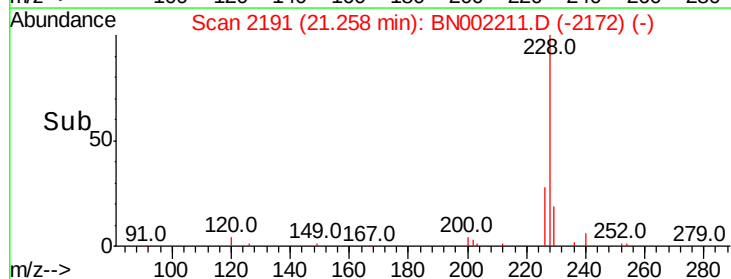
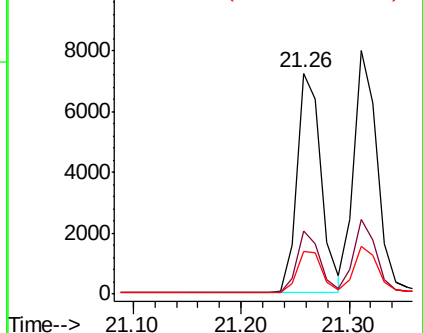
229 19.6 16.0 24.0

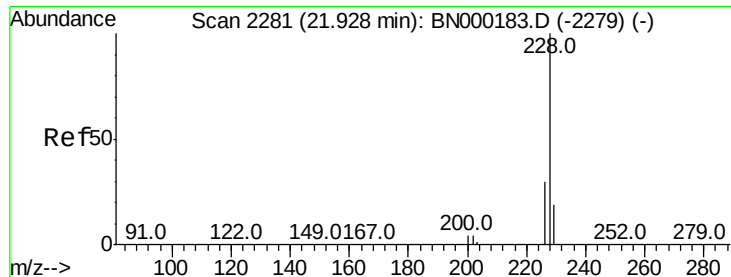


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.391 ng

RT: 21.31 min Scan# 2196

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

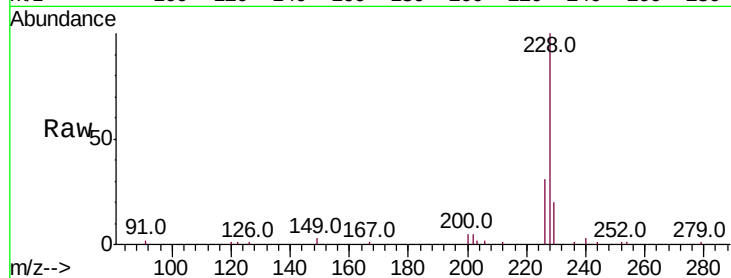
Tot Ion:228 Resp: 11843

Ion Ratio Lower Upper

228 100

226 30.7 24.0 36.0

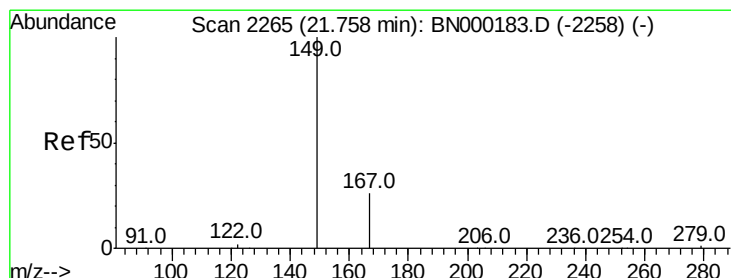
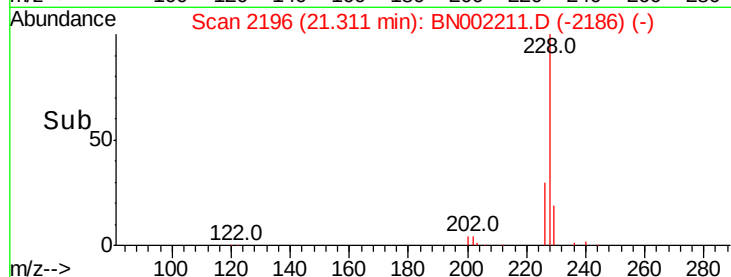
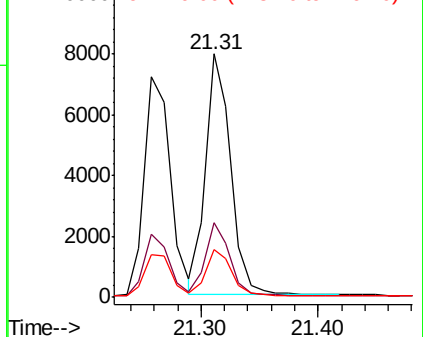
229 19.9 16.0 24.0



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: 0.426 ng

RT: 21.19 min Scan# 2185

Delta R.T. -0.00 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

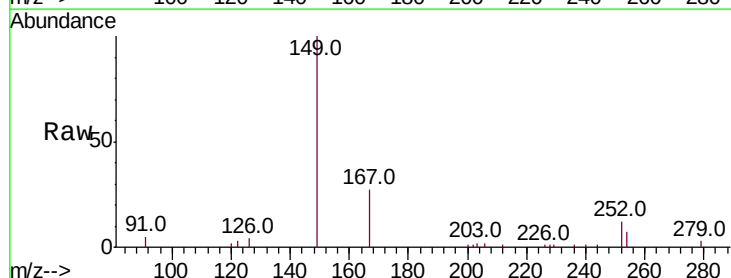
Tgt Ion:149 Resp: 5269

Ion Ratio Lower Upper

149 100

167 27.7 20.0 30.0

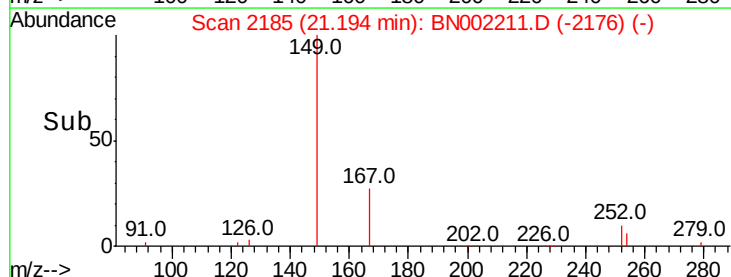
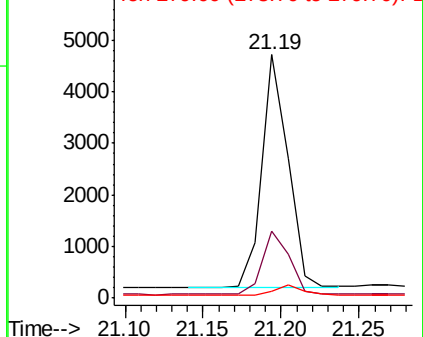
279 4.3 1.6 2.4#

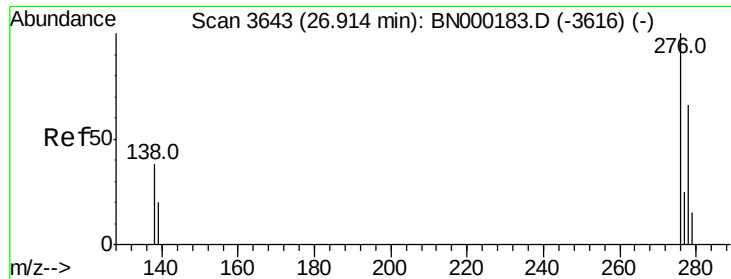


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.409 ng

RT: 25.74 min Scan# 3274

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

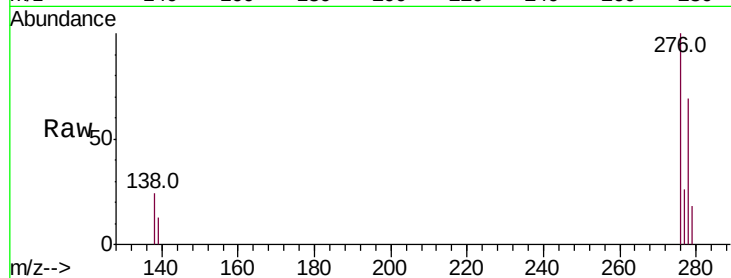
Tot Ion:276 Resp: 11660

Ion Ratio Lower Upper

276 100

138 22.6 22.5 33.7

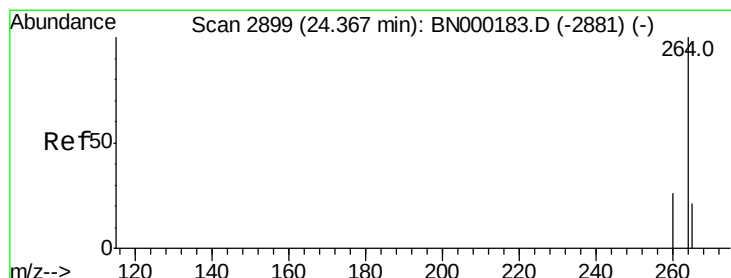
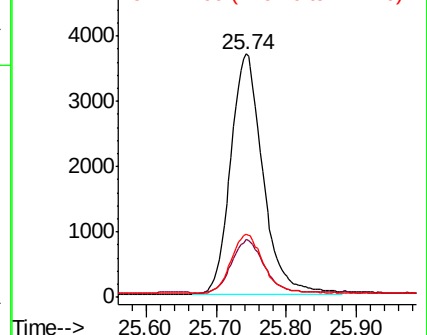
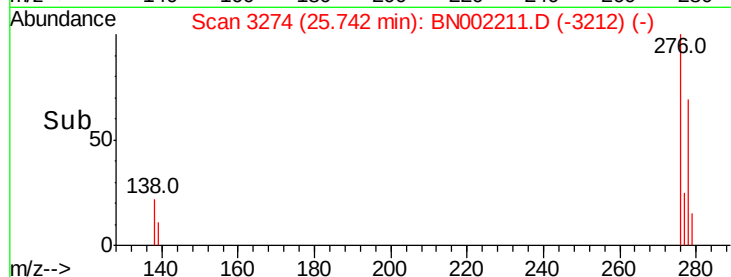
277 24.9 19.9 29.9



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: 23.51 min Scan# 2623

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

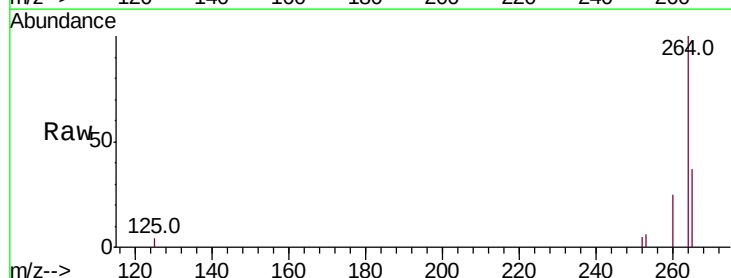
Tgt Ion:264 Resp: 8352

Ion Ratio Lower Upper

264 100

260 24.7 20.5 30.7

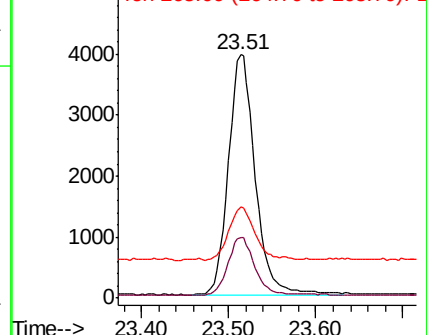
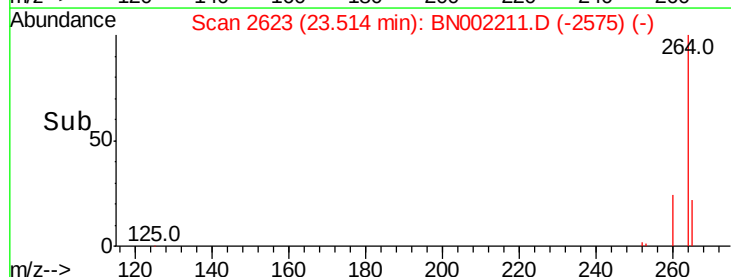
265 37.3 22.8 34.2#

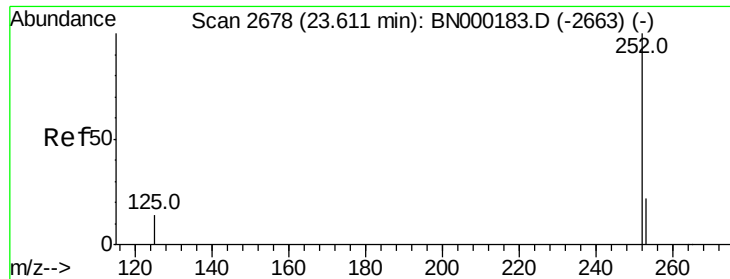


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.423 ng

RT: 22.85 min Scan# 2428

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

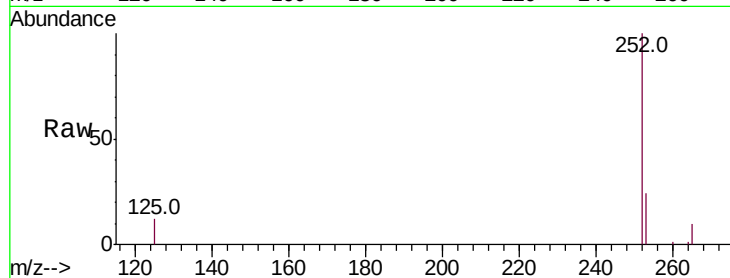
Tot Ion:252 Resp: 10383

Ion Ratio Lower Upper

252 100

253 24.4 20.0 30.0

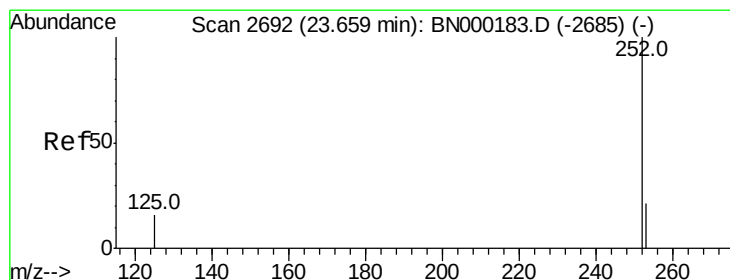
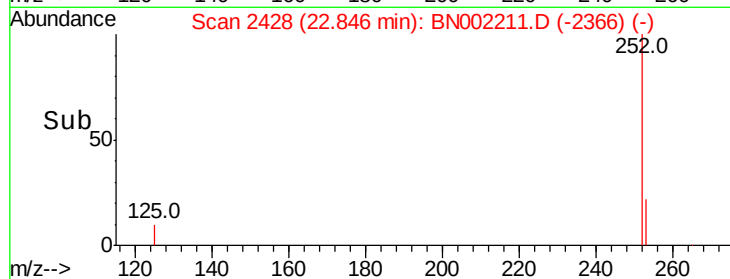
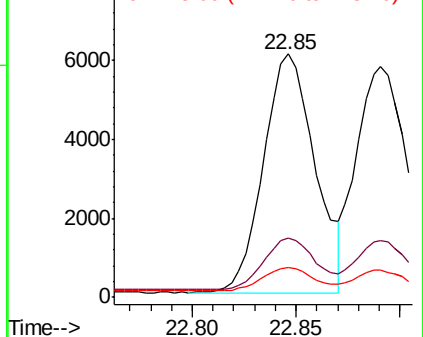
125 12.3 16.0 24.0#



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



#36

Benzo(k)fluoranthene

Concen: 0.408 ng

RT: 22.89 min Scan# 2441

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

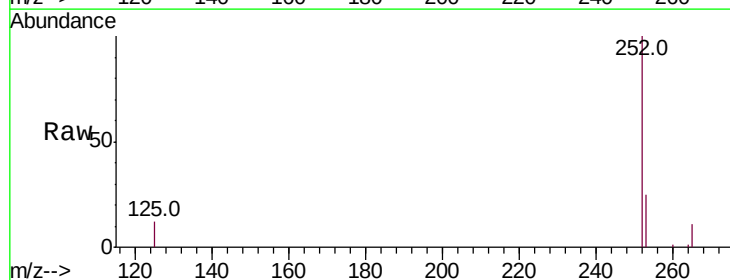
Tgt Ion:252 Resp: 10391

Ion Ratio Lower Upper

252 100

253 24.6 16.0 24.0#

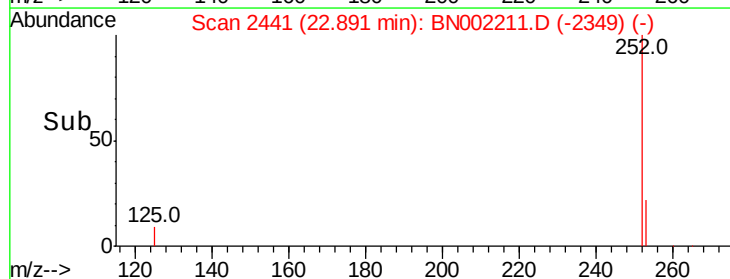
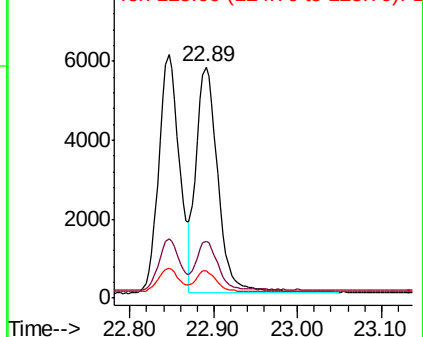
125 11.6 8.0 12.0

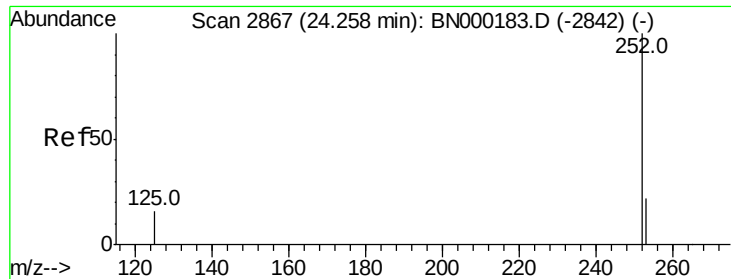


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.430 ng

RT: 23.42 min Scan# 2595

Delta R.T. 0.02 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

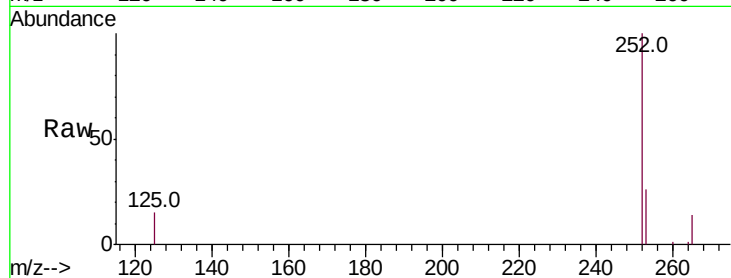
Tot Ion:252 Resp: 9563

Ion Ratio Lower Upper

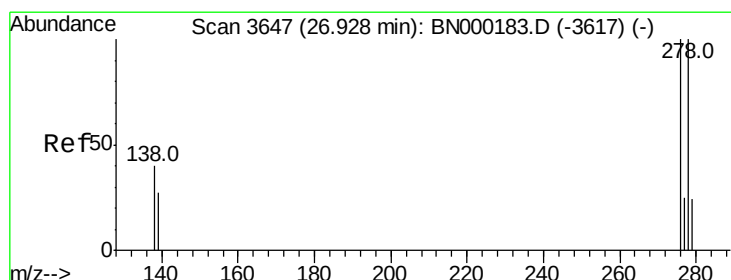
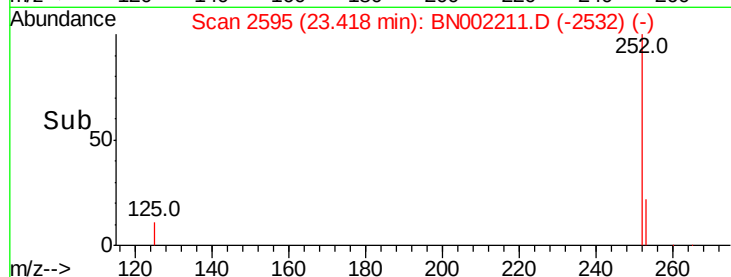
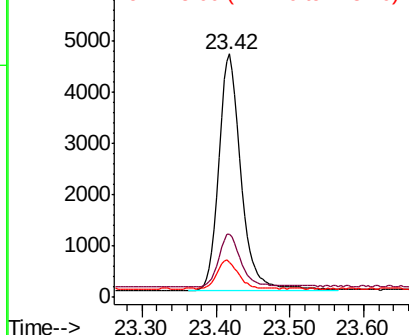
252 100

253 25.9 16.0 24.0#

125 14.6 12.0 18.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.444 ng

RT: 25.75 min Scan# 3277

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

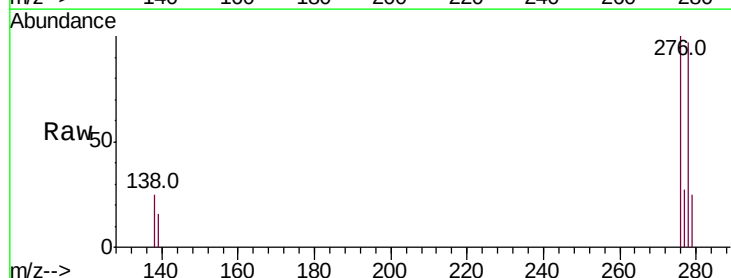
Tgt Ion:278 Resp: 9609

Ion Ratio Lower Upper

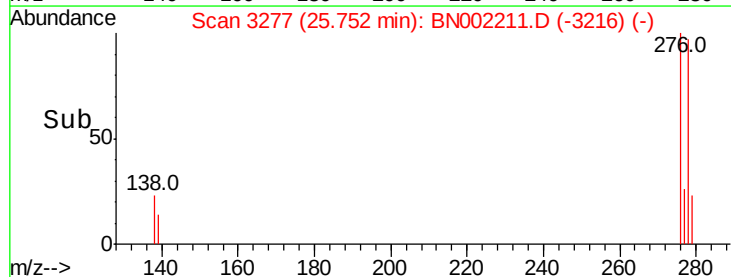
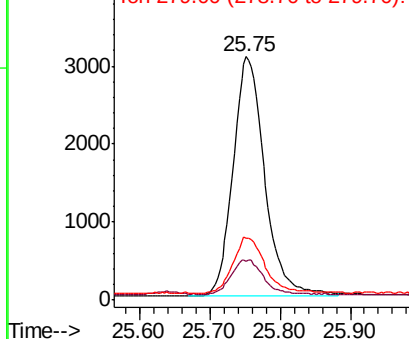
278 100

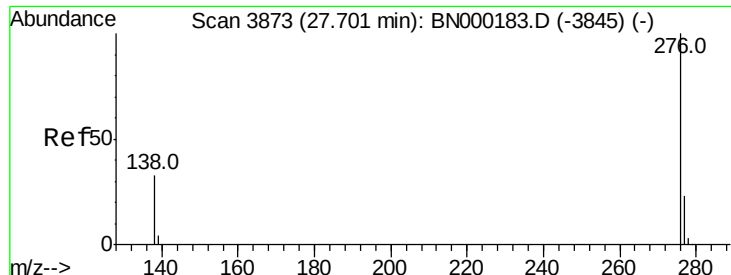
139 16.0 16.0 24.0#

279 25.6 20.0 30.0



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.461 ng

RT: 26.42 min Scan# 3472

Delta R.T. 0.01 min

Lab File: BN002211.D

Acq: 31 Jul 2018 15:05

Instrument :

BNA_N

ClientSampleId :

PB111487BS

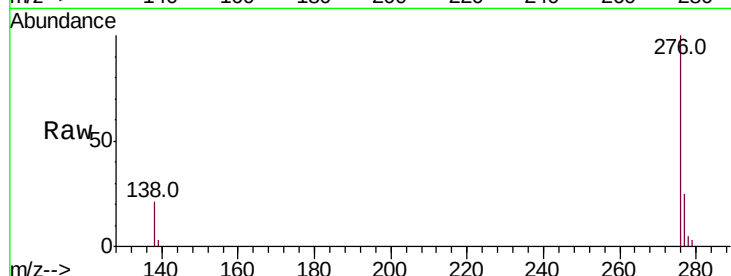
Tot Ion:276 Resp: 10198

Ion Ratio Lower Upper

276 100

277 25.0 16.0 24.0#

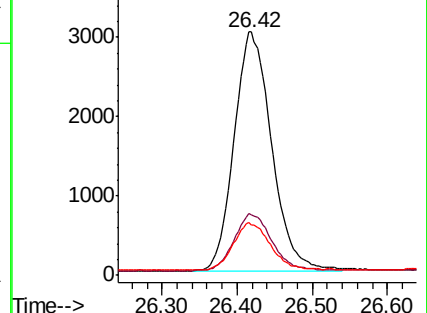
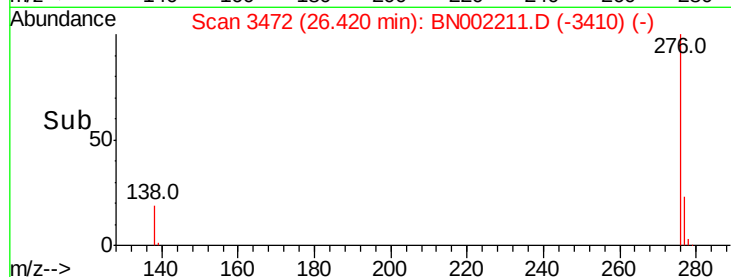
138 20.7 20.0 30.0



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



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN073118\
 Data File : BN002211.D
 Acq On : 31 Jul 2018 15:05
 Operator : JU/SJ
 Sample : PB111487BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB111487BS

Quant Time: Jul 31 16:03:35 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 16:17:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.69	152	4247	0.40	ng	0.00
7) Naphthalene-d8	10.47	136	17103	0.40	ng	0.00
13) Acenaphthene-d10	14.32	164	8897	0.40	ng	0.00
19) Phenanthrene-d10	17.07	188	17611	0.40	ng	0.00
27) Chrysene-d12	21.28	240	10757	0.40	ng	0.01
34) Perylene-d12	23.51	264	8352	0.40	ng	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.32	112	3929	0.40	ng	0.00
5) Phenol-d6	6.88	99	4720	0.39	ng	0.00
8) Nitrobenzene-d5	8.84	82	5423	0.42	ng	0.00
11) 2-Methylnaphthalene-d10	12.06	152	10586	0.42	ng	0.00
14) 2,4,6-Tribromophenol	15.83	330	1214	0.32	ng	0.00
15) 2-Fluorobiphenyl	12.94	172	15793	0.46	ng	0.00
25) Fluoranthene-d10	19.11	212	15392	0.35	ng	0.00
29) Terphenyl-d14	19.71	244	10422	0.45	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.30	88	1335	0.279	ng	# 75
3) n-Nitrosodimethylamine	3.61	42	1357	0.426	ng	# 86
6) bis(2-Chloroethyl)ether	7.13	93	4342	0.375	ng	92
9) Naphthalene	10.52	128	15388	0.399	ng	97
10) Hexachlorobutadiene	10.80	225	2863	0.343	ng	# 55
12) 2-Methylnaphthalene	12.13	142	10570	0.405	ng	98
16) Acenaphthylene	14.03	152	14406	0.379	ng	100
17) Acenaphthene	14.38	154	9450	0.387	ng	98
18) Fluorene	15.37	166	11656	0.388	ng	# 80
20) 4-Bromophenyl-phenylether	16.26	248	3729	0.374	ng	# 81
21) Hexachlorobenzene	16.38	284	4151	0.376	ng	96
22) Pentachlorophenol	16.74	266	1232	0.540	ng	96
23) Phenanthrene	17.11	178	17389	0.397	ng	99
24) Anthracene	17.21	178	14529	0.401	ng	96
26) Fluoranthene	19.14	202	16567	0.347	ng	# 97
28) Pyrene	19.50	202	15511	0.487	ng	99
30) Benzo(a)anthracene	21.26	228	11091	0.410	ng	98
31) Chrysene	21.31	228	11843	0.391	ng	99
32) Bis(2-ethylhexyl)phthalate	21.19	149	5269	0.426	ng	# 94
33) Indeno(1,2,3-cd)pyrene	25.74	276	11660	0.409	ng	94
35) Benzo(b)fluoranthene	22.85	252	10383	0.423	ng	# 92
36) Benzo(k)fluoranthene	22.89	252	10391	0.408	ng	# 92
37) Benzo(a)pyrene	23.42	252	9563	0.430	ng	# 92
38) Dibenzo(a,h)anthracene	25.75	278	9609	0.444	ng	# 95
39) Benzo(g,h,i)perylene	26.42	276	10198	0.461	ng	# 90

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