

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081019\
 Data File : BN007083.D
 Acq On : 11 Aug 2019 12:50
 Operator : HP/JU
 Sample : K4143-06
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 12 04:43:28 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Aug 10 21:44:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	9872	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	37731	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	21685	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	53765	0.40	ng	0.00
26) Chrysene-d12	21.05	240	55500	0.40	ng	-0.01
32) Perylene-d12	23.16	264	58319	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5134	0.22	ng	0.00
4) Phenol-d6	6.61	99	6957	0.24	ng	0.00
7) Nitrobenzene-d5	8.56	82	5408	0.18	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	13216	0.19	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1255	0.11	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	4243	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	35197	0.18	ng	0.00
28) Terphenyl-d14	19.49	244	26696	0.18	ng	0.00

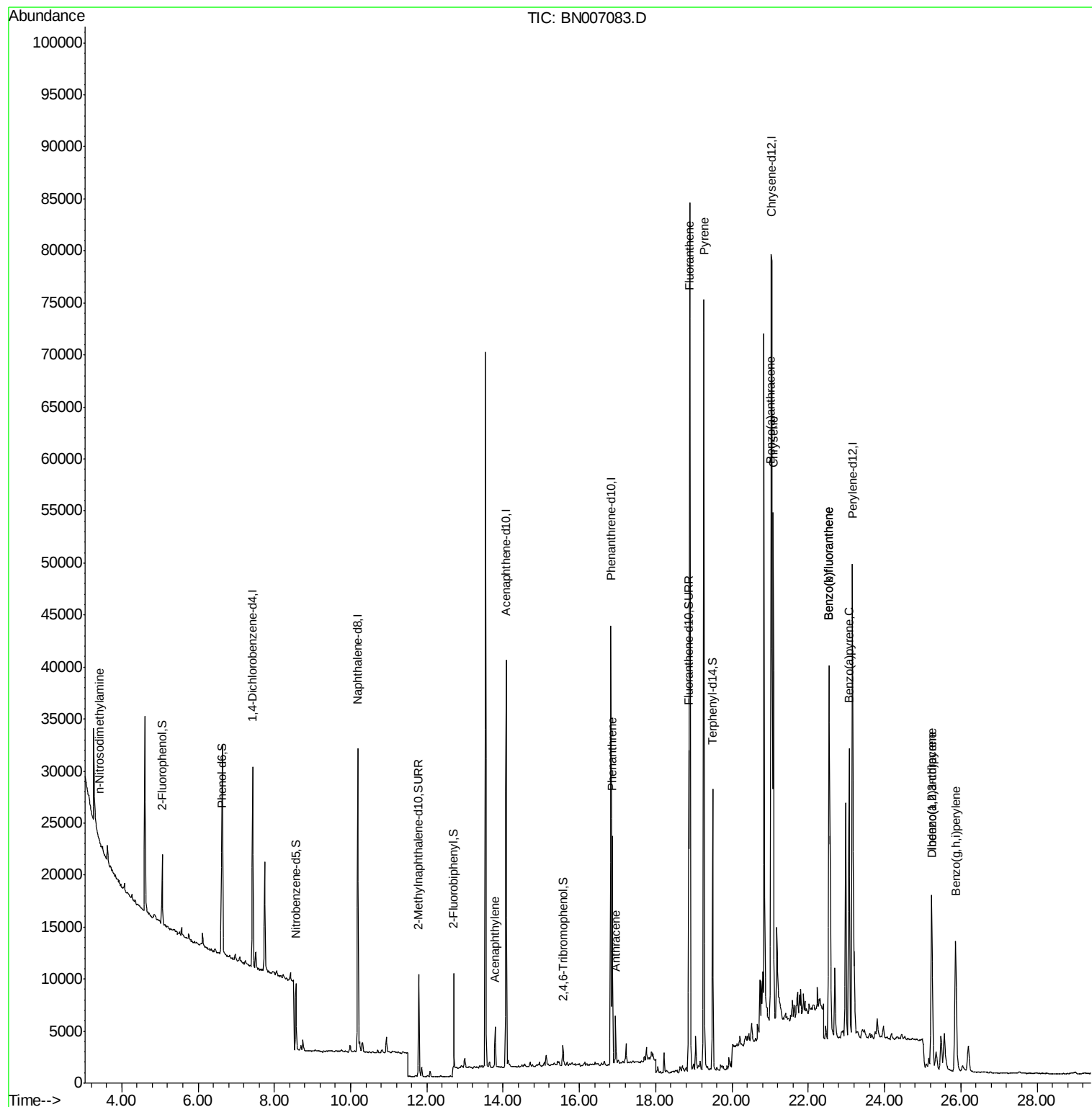
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) n-Nitrosodimethylamine	3.41	42	134	0.021	ng	# 1
15) Acenaphthylene	13.79	152	4596	0.041	ng	98
22) Phenanthrene	16.87	178	21525	0.134	ng	100
23) Anthracene	16.95	178	4830	0.033	ng	# 94
25) Fluoranthene	18.90	202	76074	0.369	ng	100
27) Pyrene	19.26	202	69064	0.355	ng	# 96
29) Benzo(a)anthracene	21.02	228	47974	0.236	ng	95
30) Chrysene	21.08	228	42817	0.217	ng	97
31) Indeno(1,2,3-cd)pyrene	25.24	276	26685	0.123	ng	97
33) Benzo(b)fluoranthene	22.54	252	58778	0.294	ng	97
34) Benzo(k)fluoranthene	22.54	252	58778	0.298	ng	97
35) Benzo(a)pyrene	23.07	252	37597	0.207	ng	98
36) Dibenzo(a,h)anthracene	25.25	278	7474	0.041	ng	# 83
37) Benzo(g,h,i)perylene	25.86	276	26957	0.145	ng	98

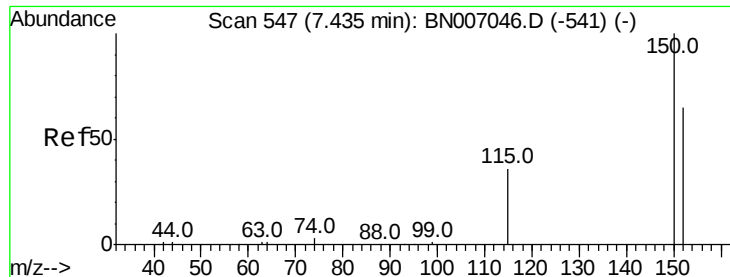
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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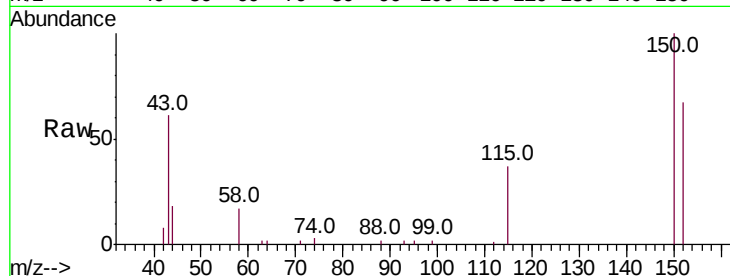


#1

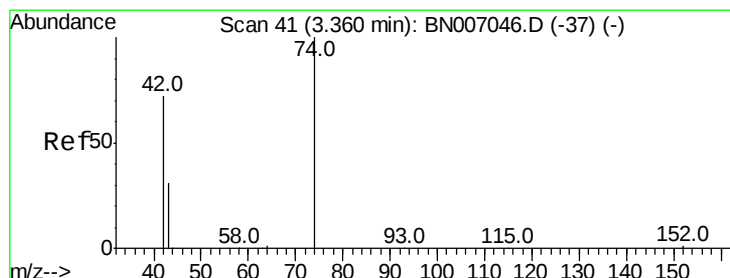
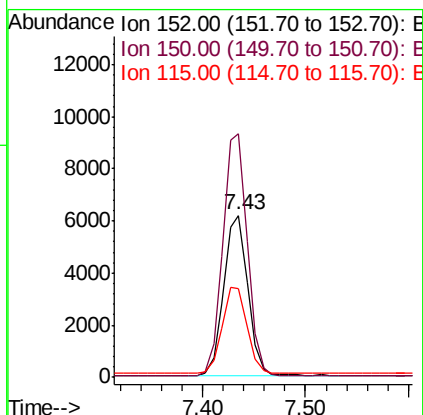
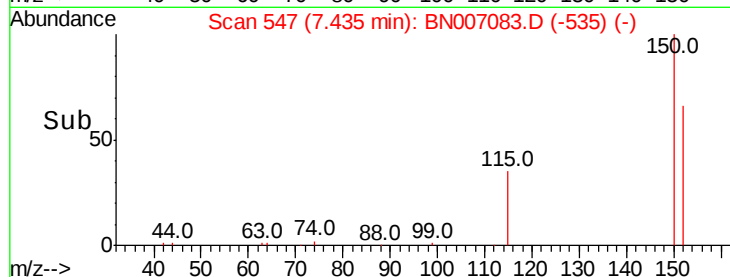
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9872
Ion Ratio Lower Upper
152 100
150 150.3 121.7 182.5
115 55.1 46.2 69.4



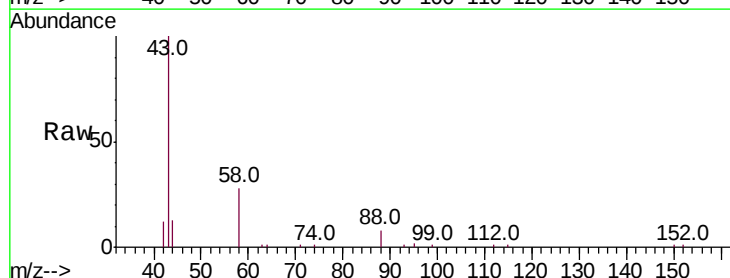
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



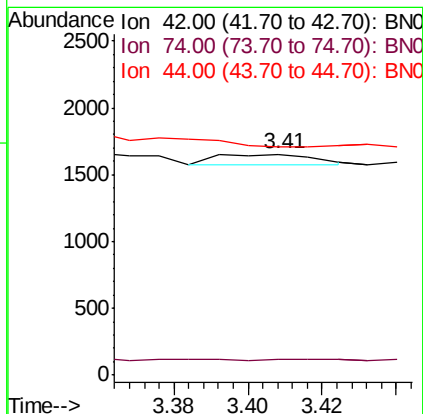
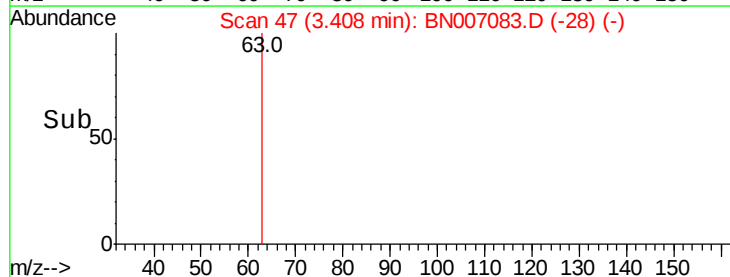
#2

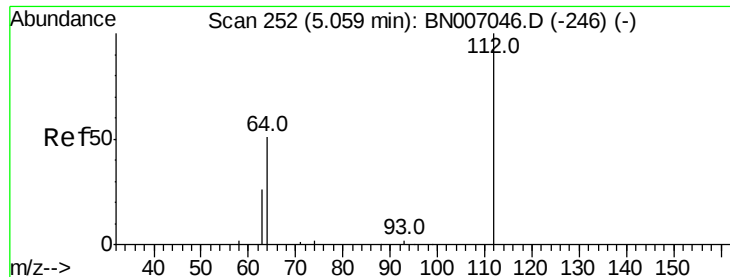
n-Nitrosodimethylamine
Concen: 0.021 ng
RT: 3.41 min Scan# 47
Delta R.T. 0.05 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Tgt Ion: 42 Resp: 134
Ion Ratio Lower Upper
42 100
74 2.2 110.6 166.0#
44 0.0 0.0 0.0



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





#3

2-Fluorophenol

Concen: 0.216 ng

RT: 5.06 min Scan# 252

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

Instrument :

BNA_N

ClientSampled :

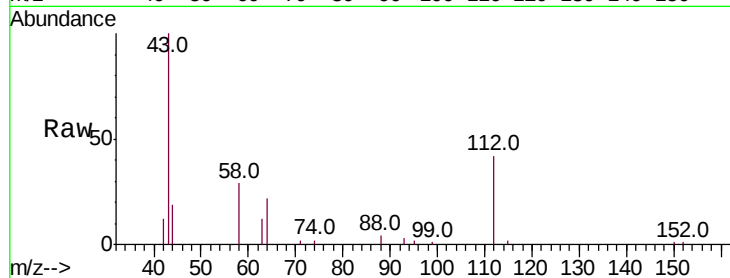
Tot Ion:112 Resp: 5134

Ion Ratio Lower Upper

112 100

64 53.5 42.6 63.8

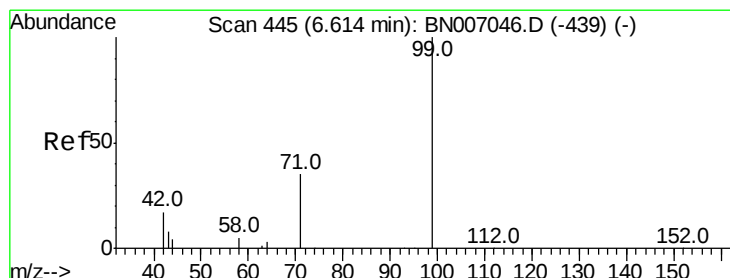
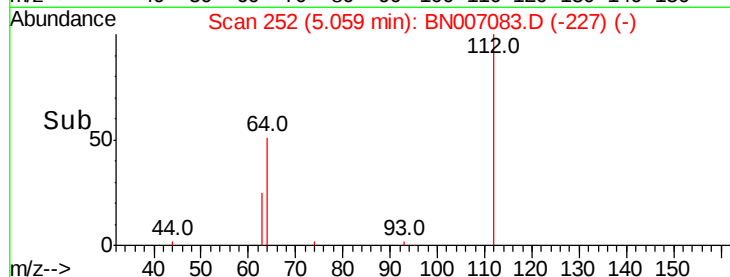
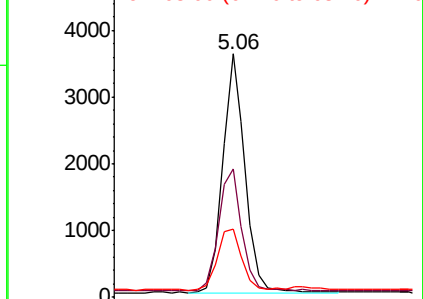
63 27.6 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC



#4

Phenol-d6

Concen: 0.237 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

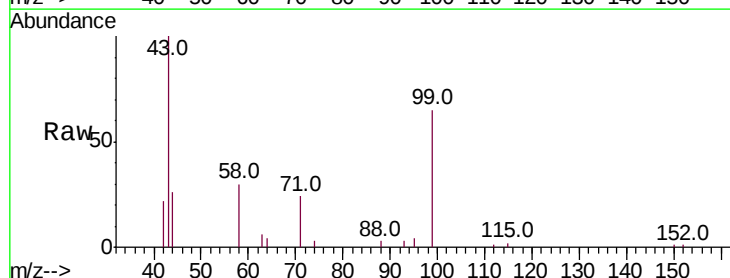
Tgt Ion: 99 Resp: 6957

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

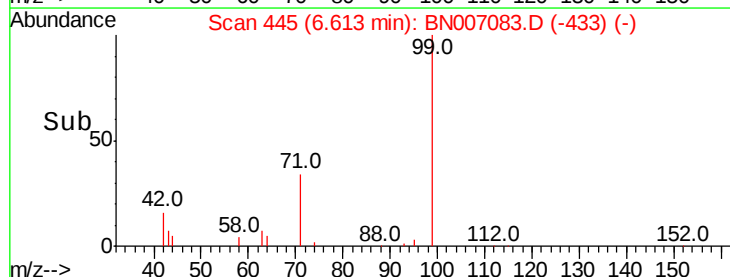
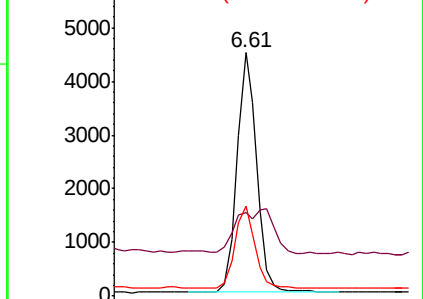
71 34.4 27.0 40.4

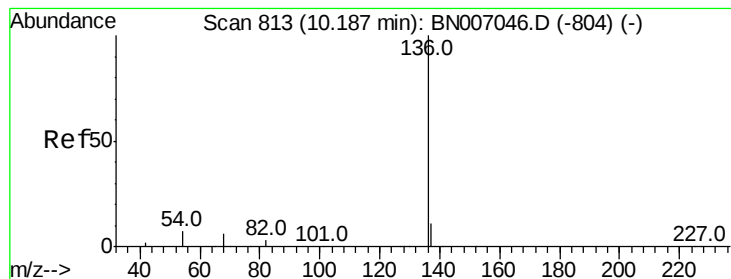


Abundance Ion 99.00 (98.70 to 99.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

Ion 71.00 (70.70 to 71.70): BNC





#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

Instrument :

BNA_N

ClientSampleId :

Tot Ion:136 Resp: 37731

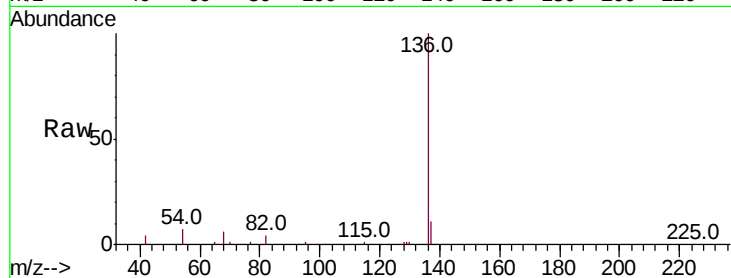
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 6.5 6.6 9.8#

68 6.0 6.0 9.0#

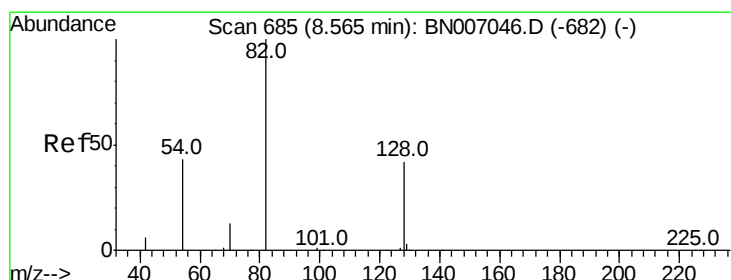
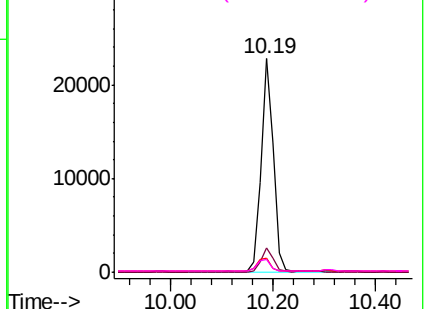
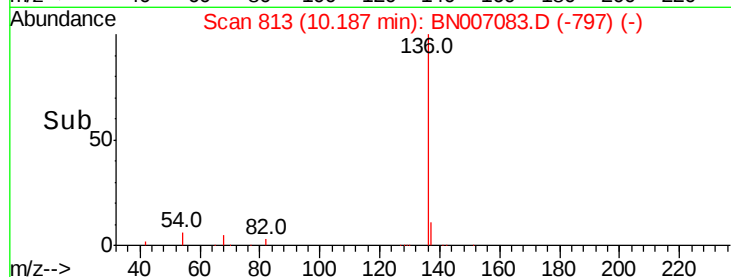


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 0.178 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

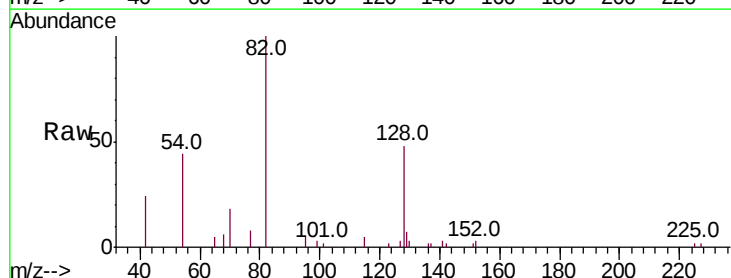
Tgt Ion: 82 Resp: 5408

Ion Ratio Lower Upper

82 100

128 47.7 34.6 51.8

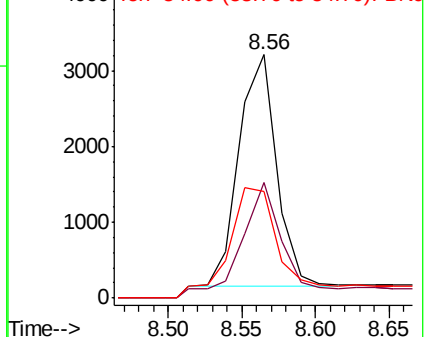
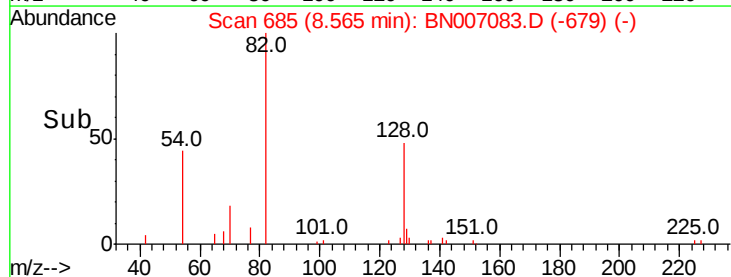
54 43.8 36.2 54.4

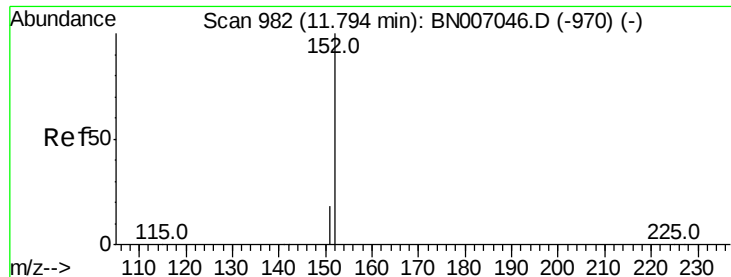


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#10

2-Methylnaphthalene-d10

Concen: 0.188 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

Instrument :

BNA_N

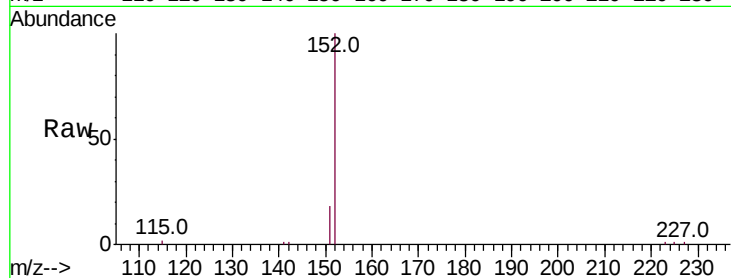
ClientSampleId :

Tot Ion:152 Resp: 13216

Ion Ratio Lower Upper

152 100

151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.79

8000

6000

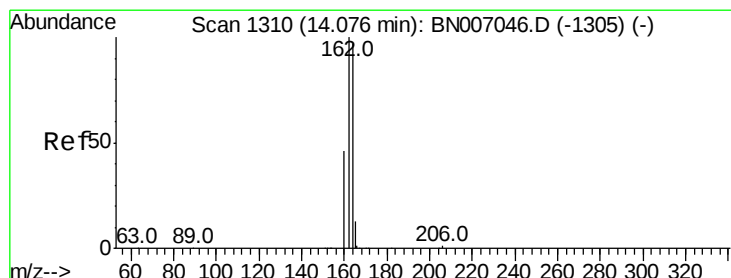
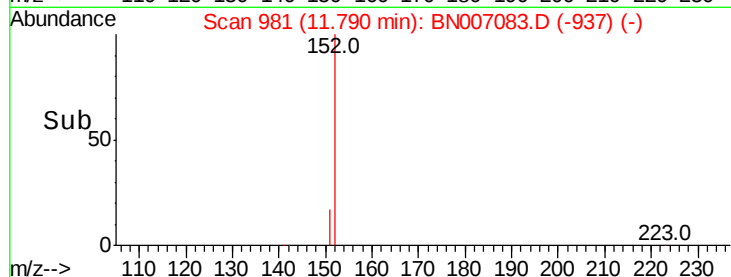
4000

2000

0

Time-->

11.70 11.80 11.90



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

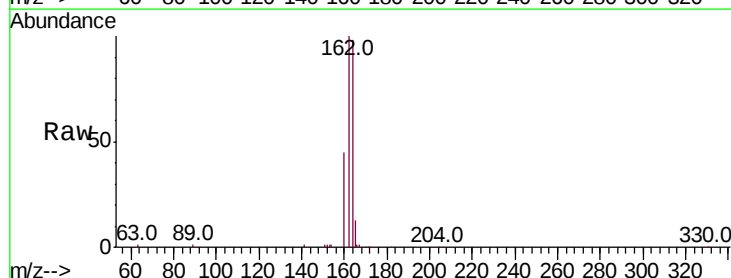
Tgt Ion:164 Resp: 21685

Ion Ratio Lower Upper

164 100

162 101.8 82.2 123.4

160 45.8 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

14.08

20000

15000

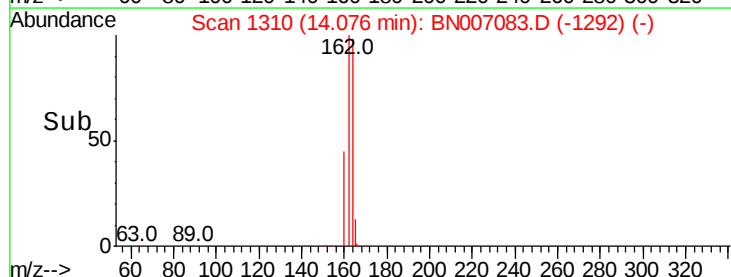
10000

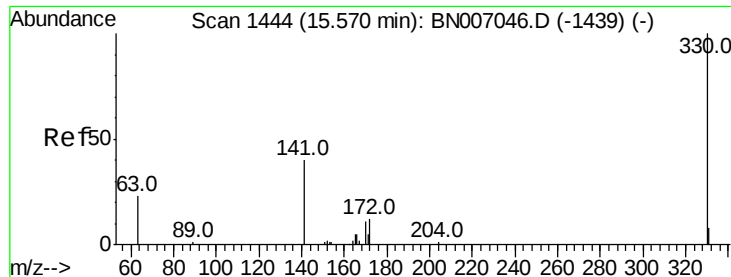
5000

0

Time-->

14.00 14.10

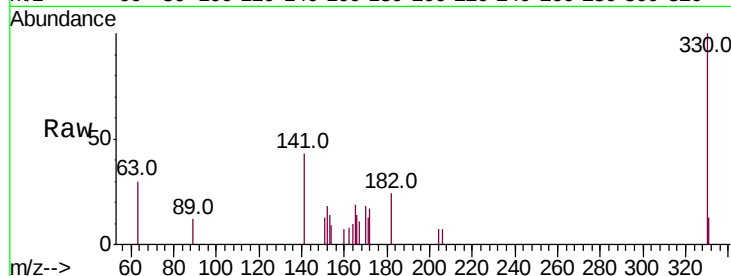




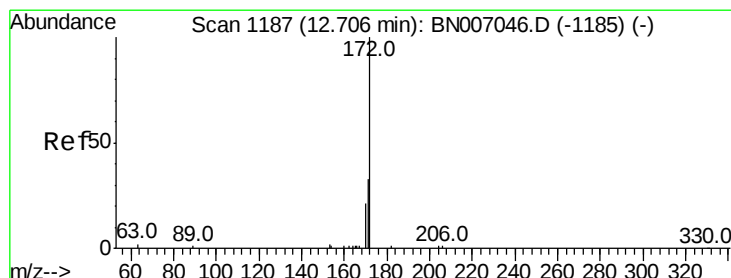
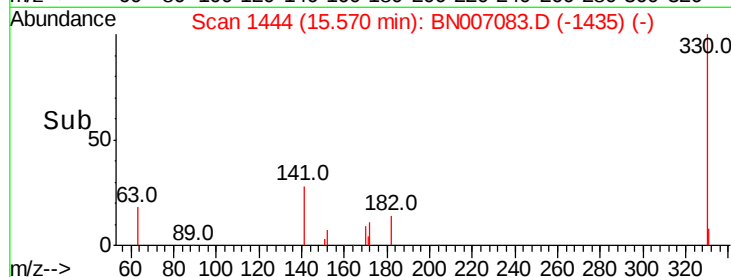
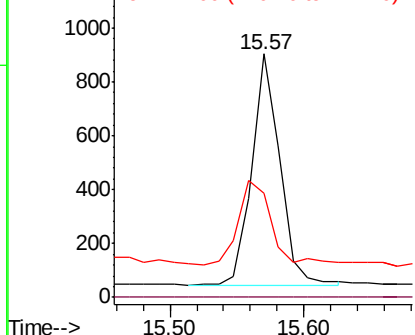
#13
 2,4,6-Tribromophenol
 Concen: 0.107 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007083.D
 Acq: 11 Aug 2019 12:50

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:330 Resp: 1255
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 42.1 33.6 50.4

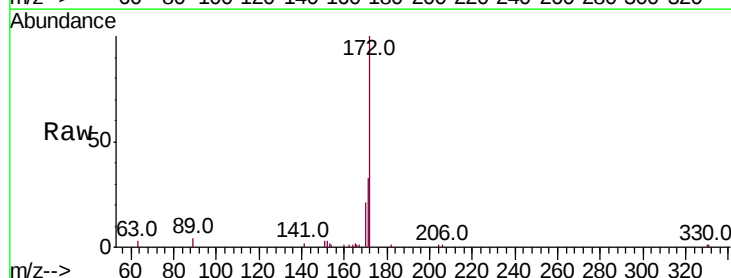


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

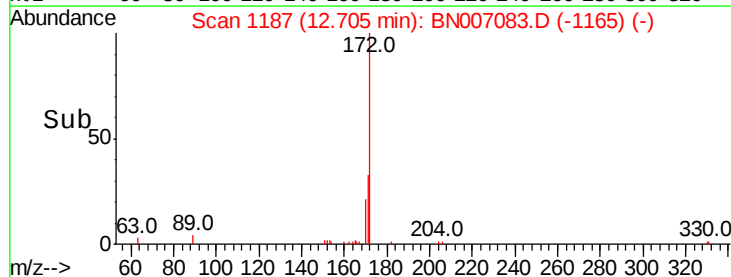
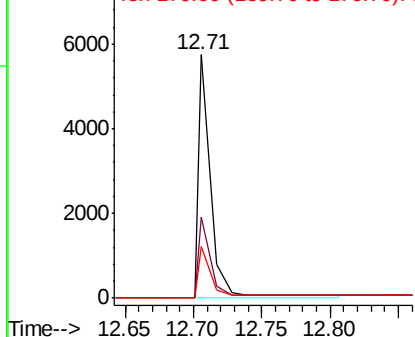


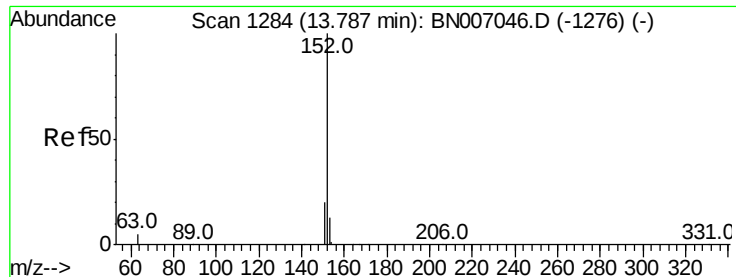
#14
 2-Fluorobiphenyl
 Concen: 0.135 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007083.D
 Acq: 11 Aug 2019 12:50

Tgt Ion:172 Resp: 4243
 Ion Ratio Lower Upper
 172 100
 171 33.5 26.3 39.5
 170 21.1 17.0 25.4



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





#15

Acenaphthylene

Concen: 0.041 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

Instrument :

BNA_N

ClientSampleId :

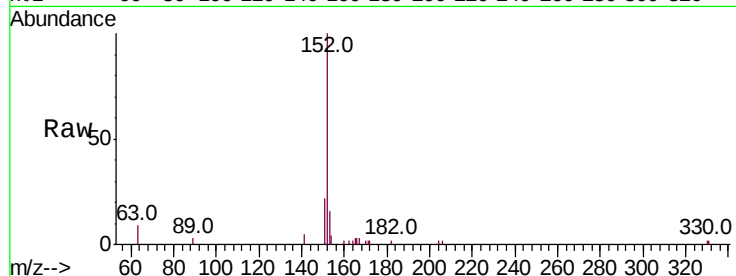
Tot Ion:152 Resp: 4596

Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.6

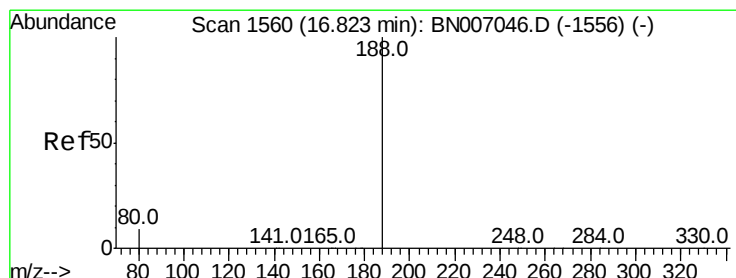
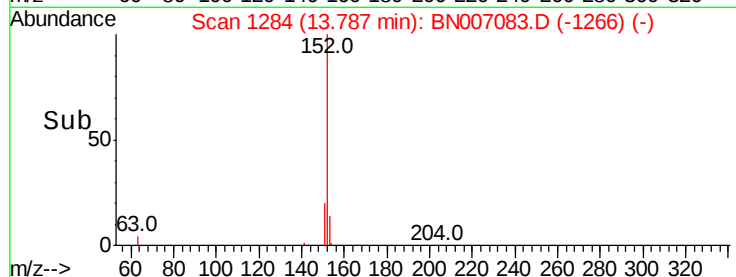
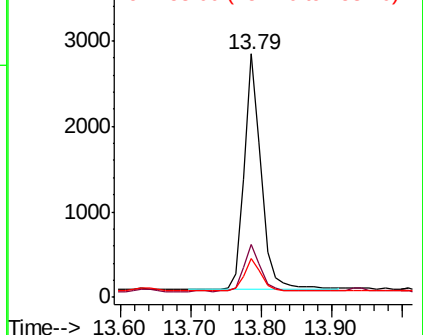
153 13.7 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

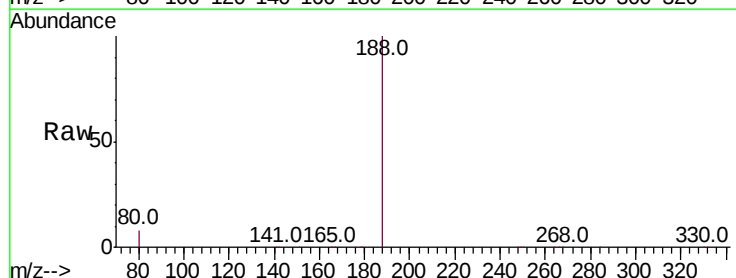
Tgt Ion:188 Resp: 53765

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

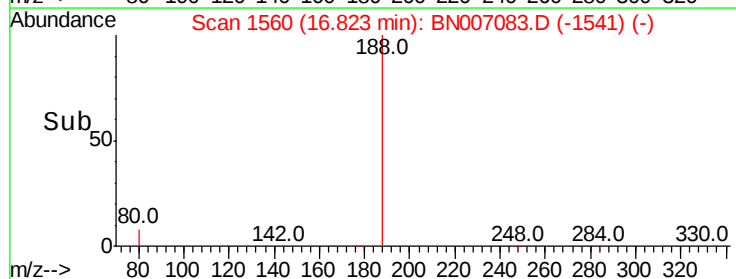
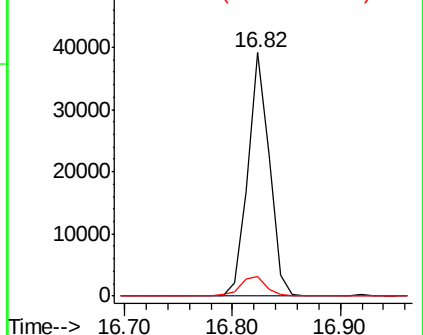
80 7.9 7.8 11.6

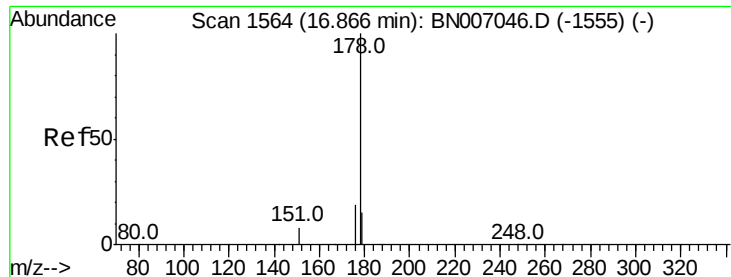


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Phenanthrene

Concen: 0.134 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

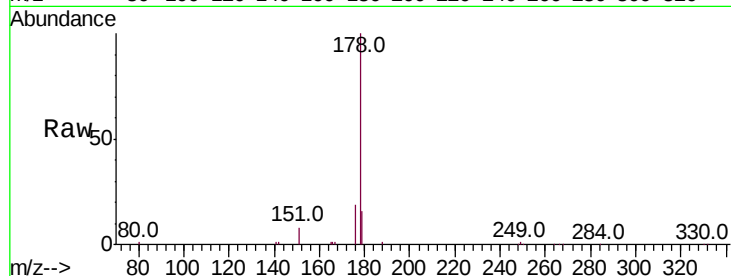
Instrument :

BNA_N

ClientSampleId :

Tot Ion:178 Resp: 21525

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.6	12.3	18.5

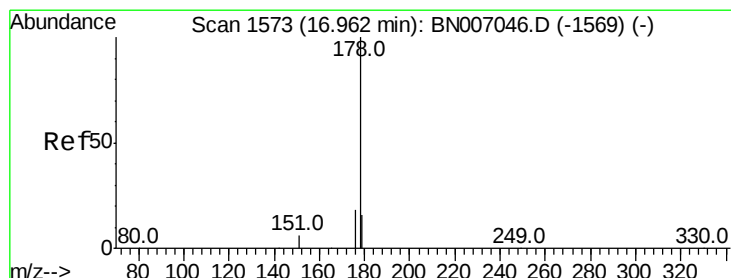
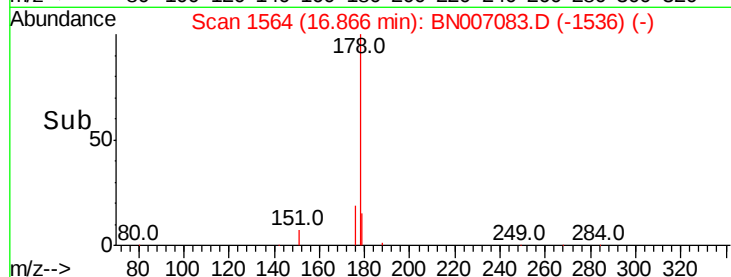
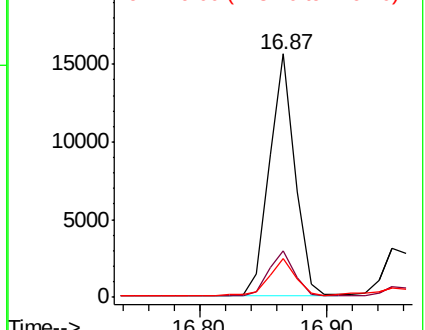


Abundance

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



#23

Anthracene

Concen: 0.033 ng

RT: 16.95 min Scan# 1572

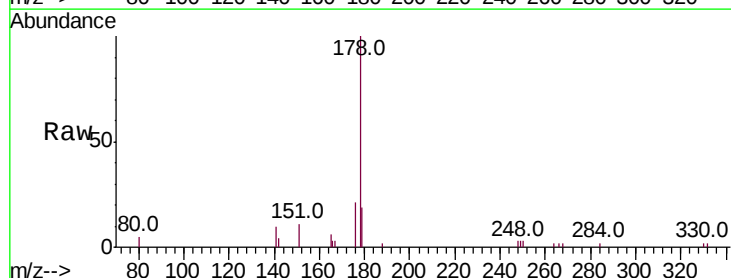
Delta R.T. -0.01 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

Tgt Ion:178 Resp: 4830

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.6	21.8
179	20.1	12.5	18.7#

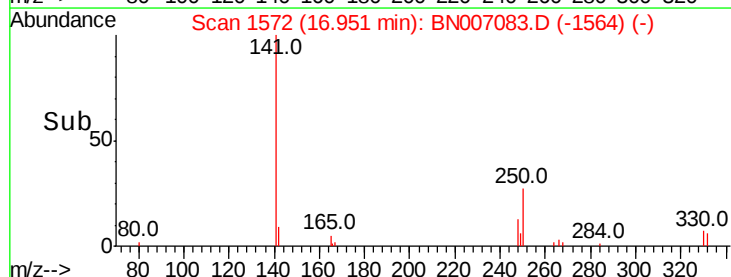
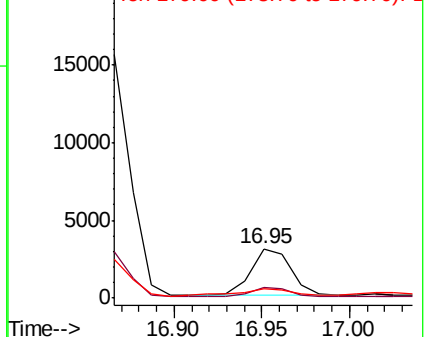


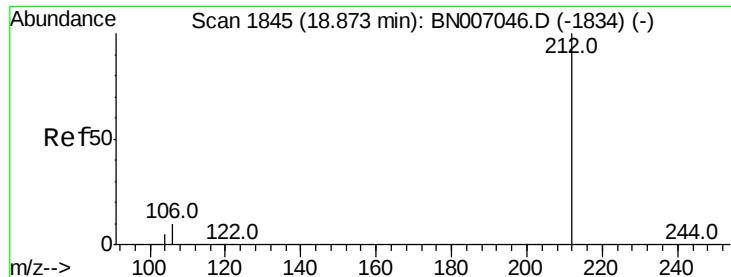
Abundance

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: 0.185 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007083.D

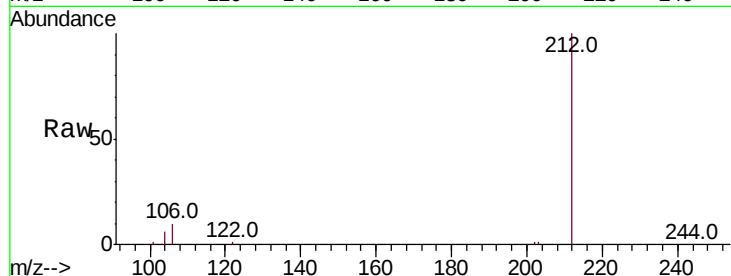
Acq: 11 Aug 2019 12:50

Instrument :

BNA_N

ClientSampleId :

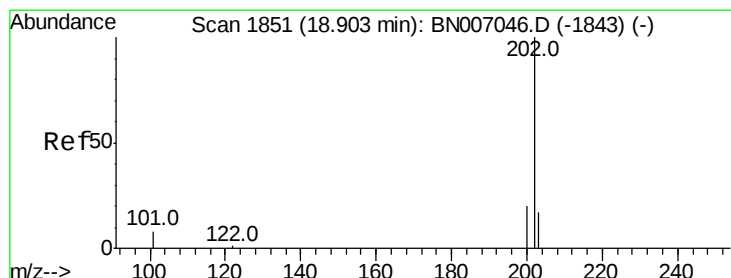
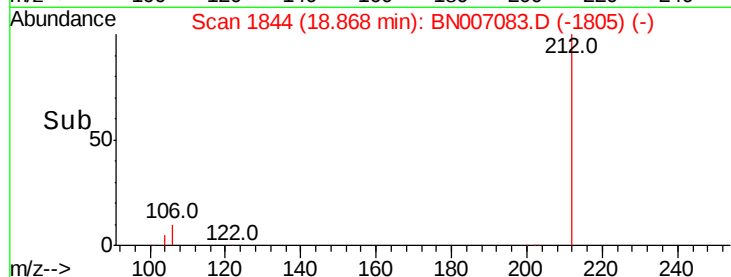
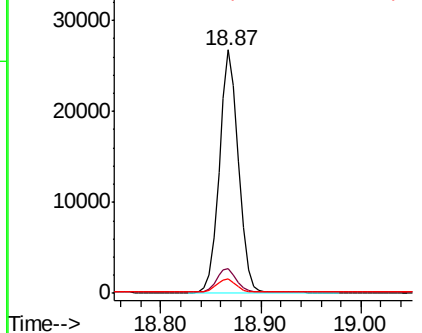
Tot Ion:212	Resp:	35197
Ion Ratio	Lower	Upper
212	100	
106	10.1	8.2 12.2
104	5.8	4.5 6.7



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



#25

Fluoranthene

Concen: 0.369 ng

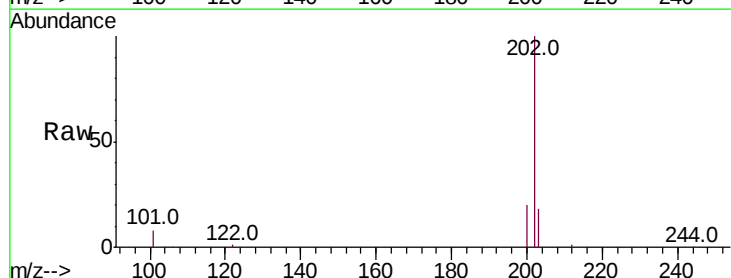
RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

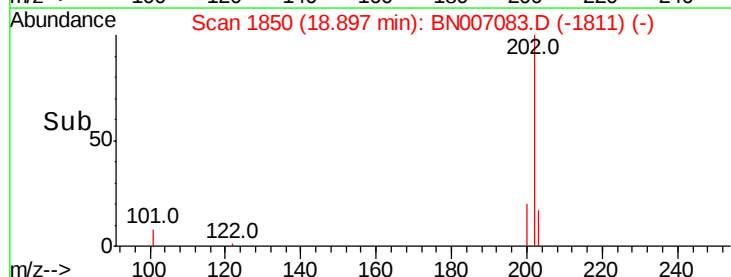
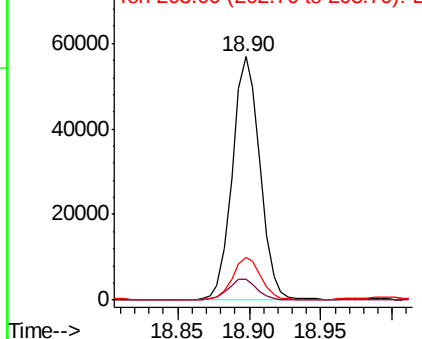
Tgt Ion:202	Resp:	76074
Ion Ratio	Lower	Upper
202	100	
101	8.6	7.0 10.4
203	17.2	13.8 20.8

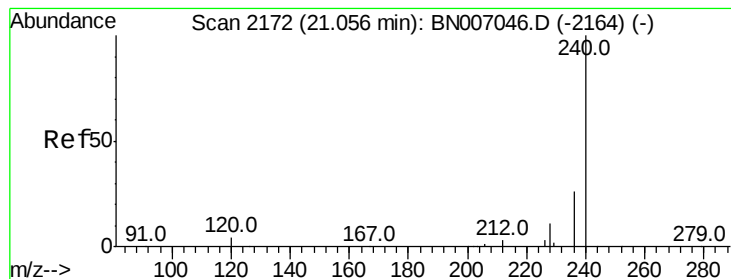


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#26

Chrysene-d12

Concen: 0.400 ng

RT: 21.05 min Scan# 2171

Delta R.T. -0.01 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

Instrument :

BNA_N

ClientSampleId :

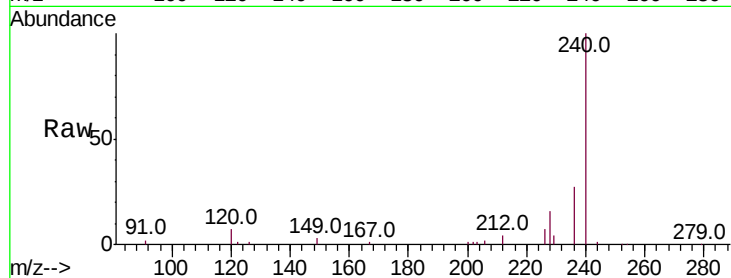
Tot Ion:240 Resp: 55500

Ion Ratio Lower Upper

240 100

120 6.8 4.0 6.0#

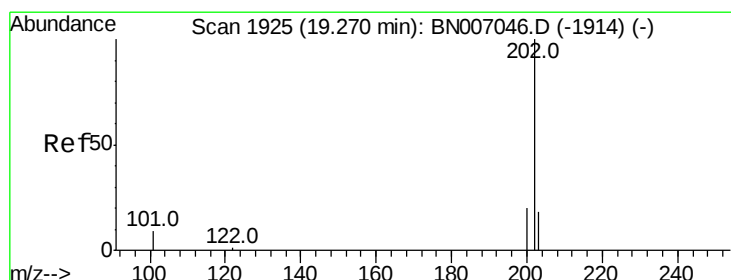
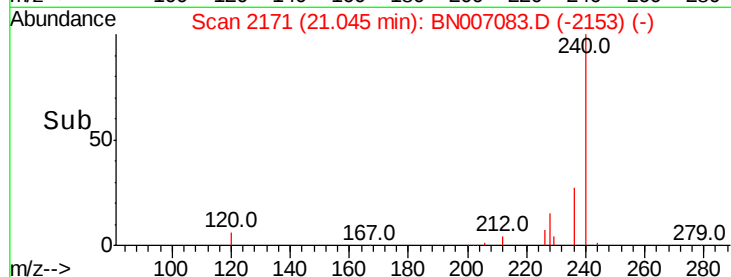
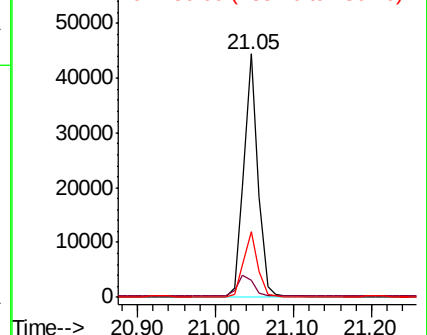
236 27.0 21.3 31.9



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



#27

Pyrene

Concen: 0.355 ng

RT: 19.26 min Scan# 1924

Delta R.T. -0.01 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

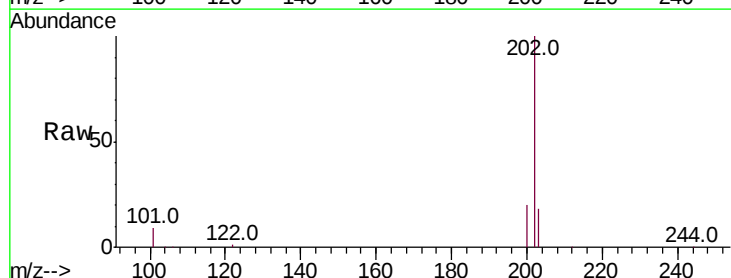
Tgt Ion:202 Resp: 69064

Ion Ratio Lower Upper

202 100

200 20.8 16.6 24.8

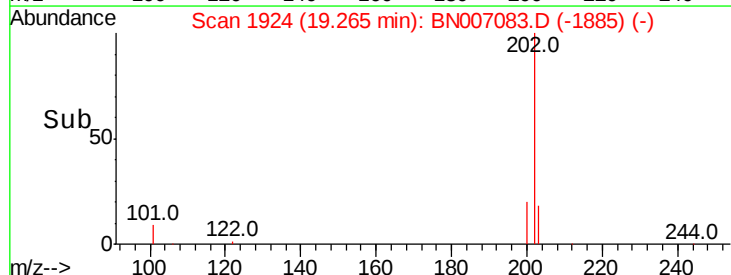
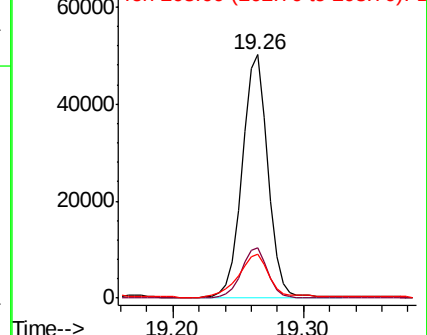
203 21.2 14.0 21.0#

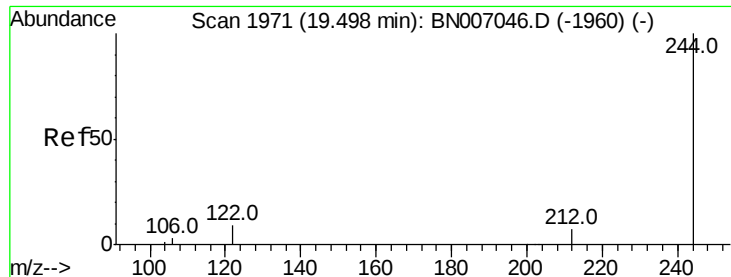


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

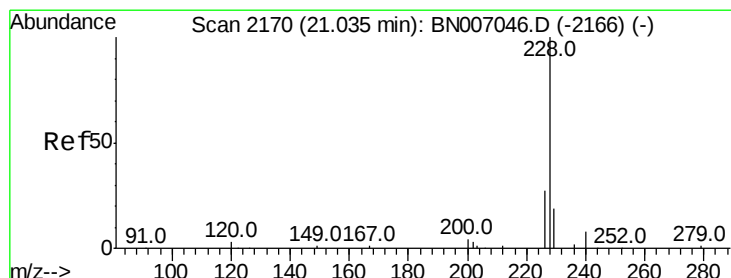
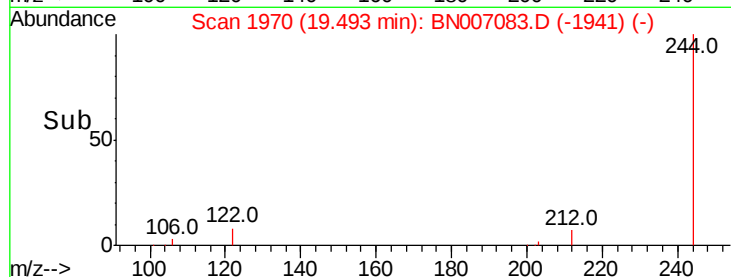
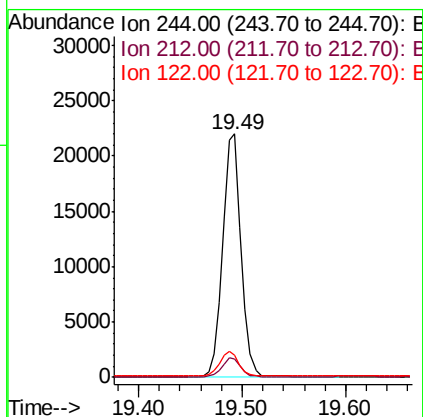
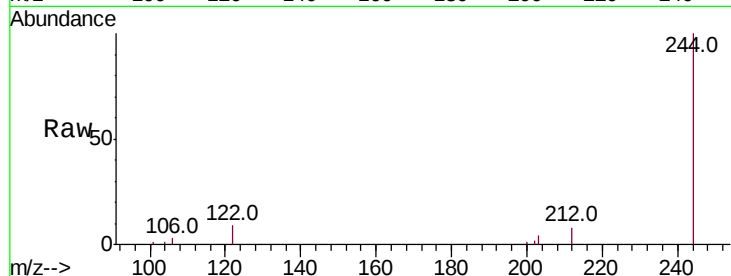




#28
 Terphenyl-d14
 Concen: 0.177 ng
 RT: 19.49 min Scan# 1970
 Delta R.T. -0.01 min
 Lab File: BN007083.D
 Acq: 11 Aug 2019 12:50

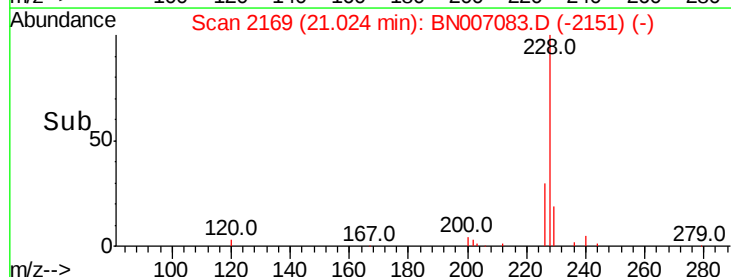
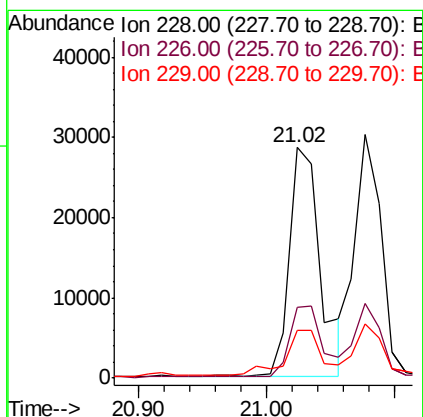
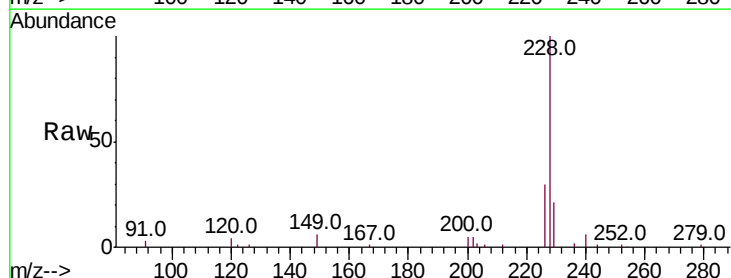
Instrument :
 BNA_N
 ClientSampleId :

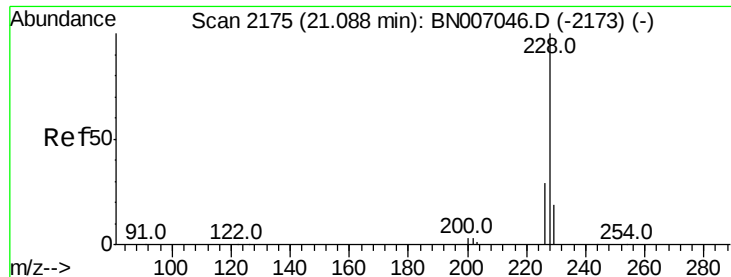
Tot Ion:244 Resp: 26696
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.2 9.2
 122 9.1 7.4 11.2



#29
 Benzo(a)anthracene
 Concen: 0.236 ng
 RT: 21.02 min Scan# 2169
 Delta R.T. -0.01 min
 Lab File: BN007083.D
 Acq: 11 Aug 2019 12:50

Tgt Ion:228 Resp: 47974
 Ion Ratio Lower Upper
 228 100
 226 30.5 21.8 32.6
 229 20.5 15.6 23.4





#30

Chrysene

Concen: 0.217 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

Instrument :

BNA_N

ClientSampleId :

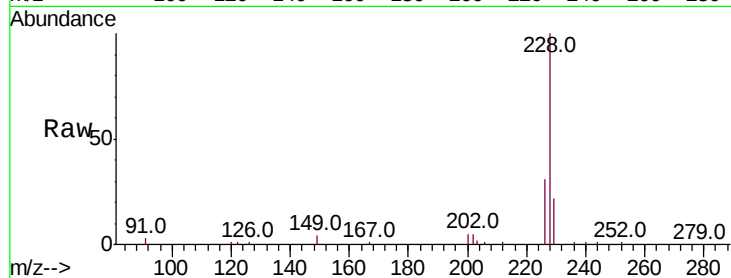
Tot Ion:228 Resp: 42817

Ion Ratio Lower Upper

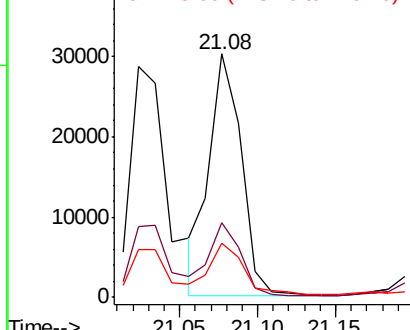
228 100

226 30.7 23.8 35.6

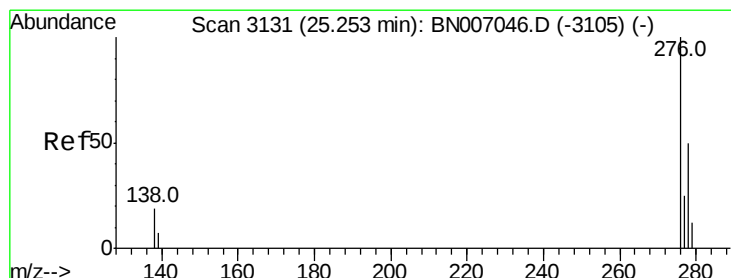
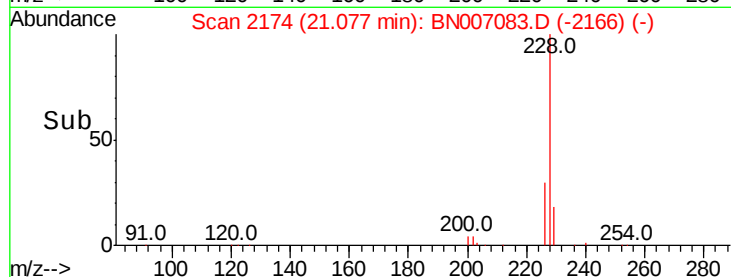
229 22.0 15.7 23.5



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



Time-->



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.123 ng

RT: 25.24 min Scan# 3126

Delta R.T. -0.02 min

Lab File: BN007083.D

Acq: 11 Aug 2019 12:50

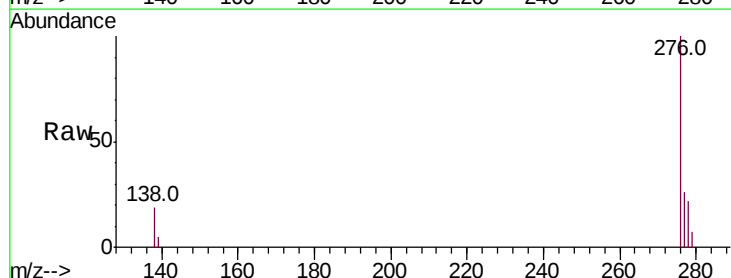
Tgt Ion:276 Resp: 26685

Ion Ratio Lower Upper

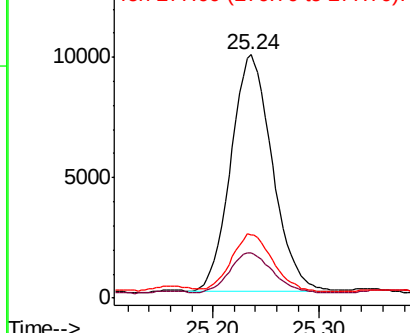
276 100

138 17.7 16.0 24.0

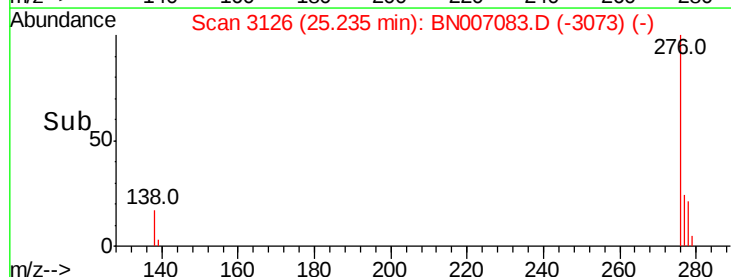
277 24.3 19.9 29.9

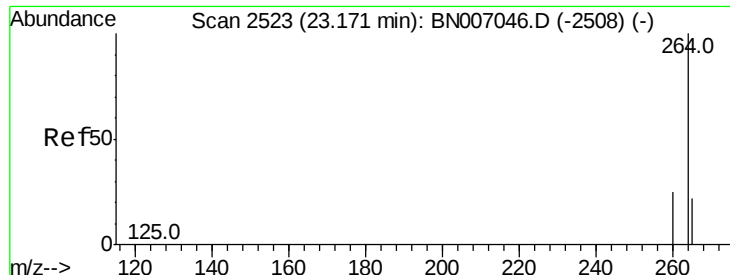


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



Time-->



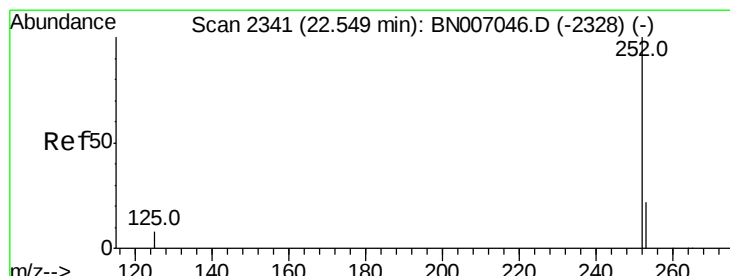
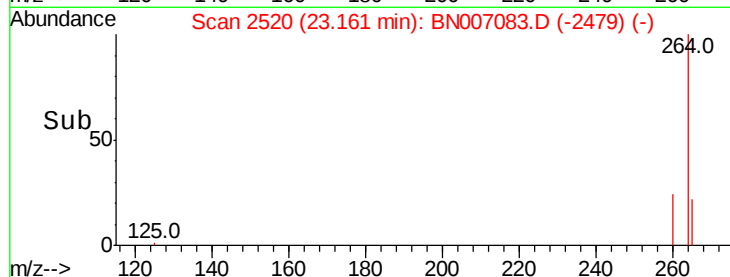
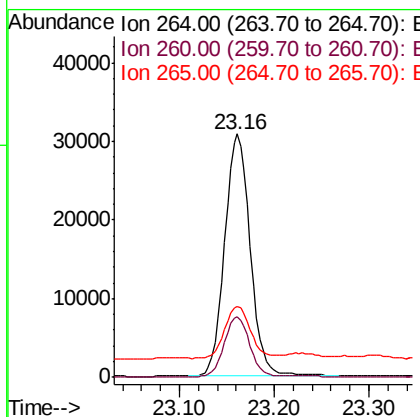
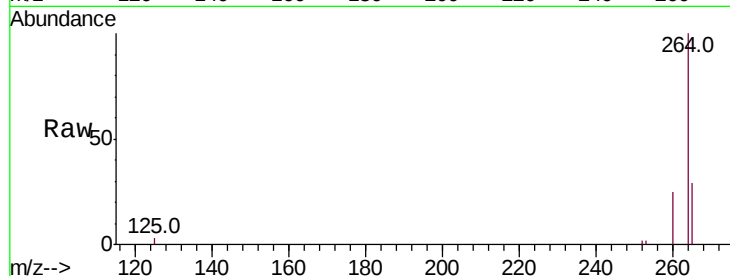


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2520
Delta R.T. -0.01 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Instrument :
BNA_N
ClientSampleId :

Tot Ion:264 Resp: 58319

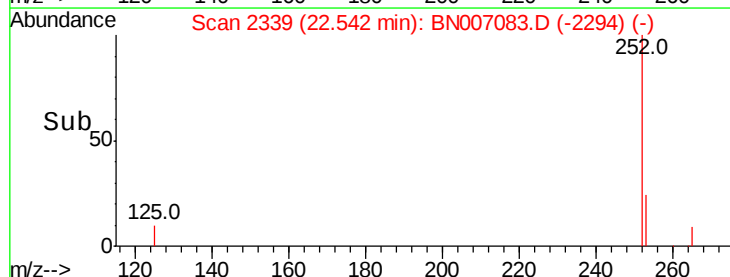
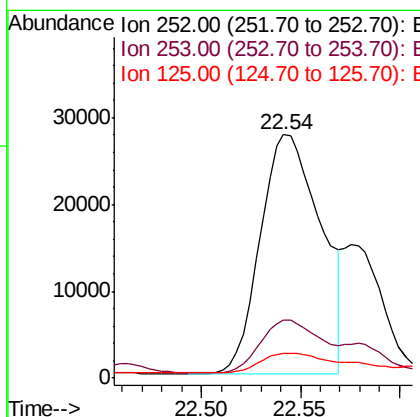
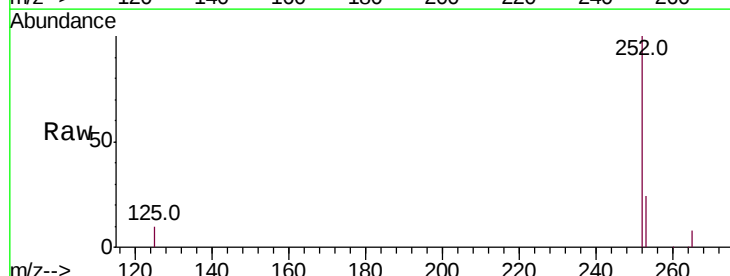
Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.8	29.8
265	29.3	26.2	39.4

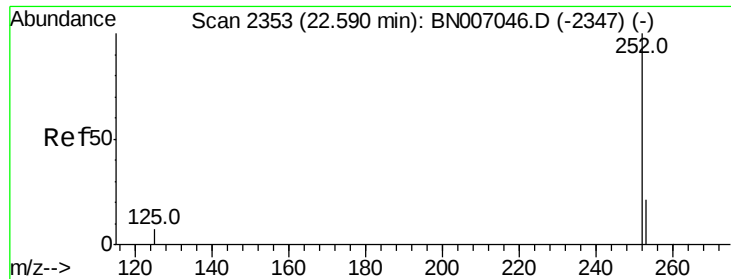


#33
Benzo(b)fluoranthene
Concen: 0.294 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.01 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Tgt Ion:252 Resp: 58778

Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.2
125	10.1	7.4	11.0

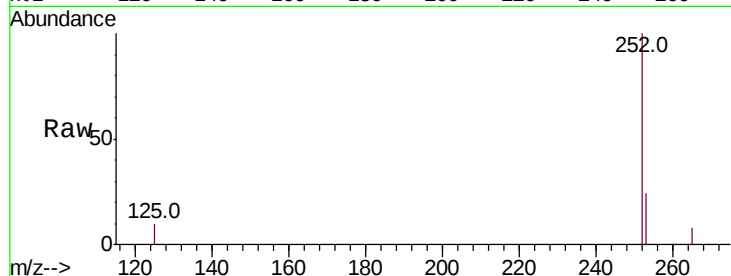




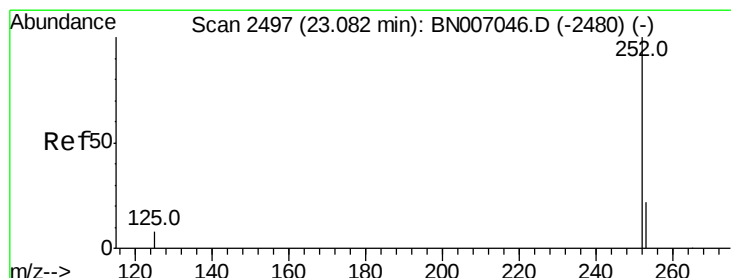
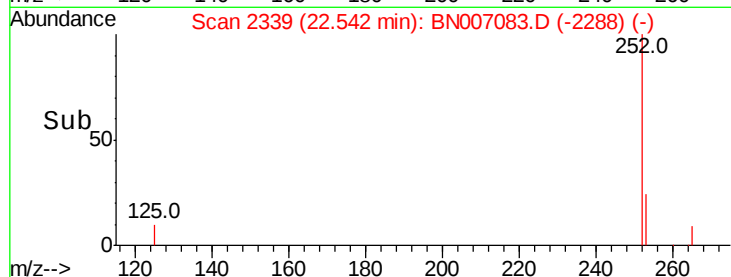
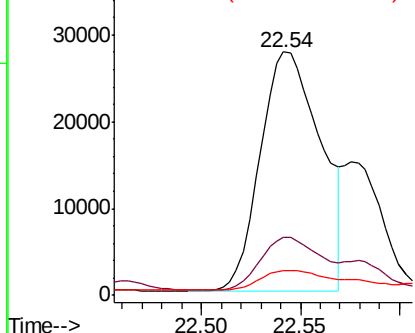
#34
Benzo(k)fluoranthene
Concen: 0.298 ng
RT: 22.54 min Scan# 2339
Delta R.T. -0.05 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 58778
Ion Ratio Lower Upper
252 100
253 24.0 18.1 27.1
125 10.1 7.4 11.0

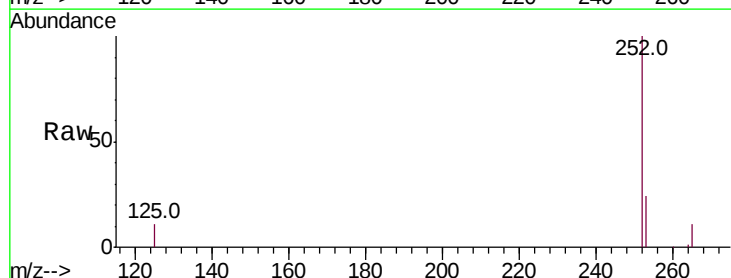


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

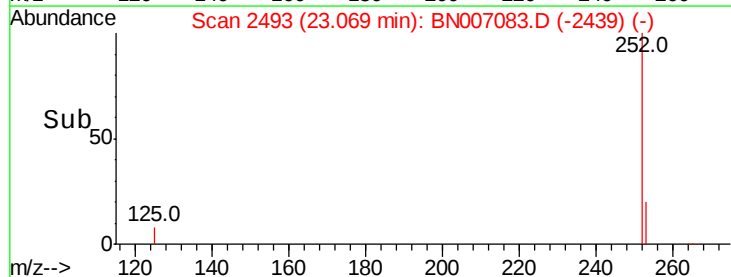
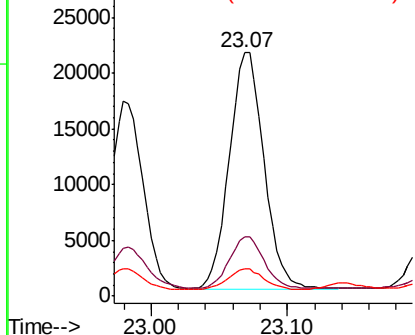


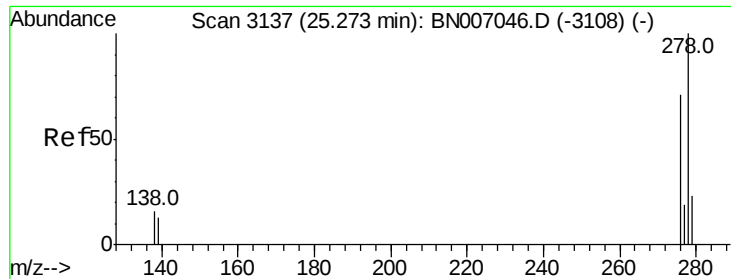
#35
Benzo(a)pyrene
Concen: 0.207 ng
RT: 23.07 min Scan# 2493
Delta R.T. -0.01 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Tgt Ion:252 Resp: 37597
Ion Ratio Lower Upper
252 100
253 24.4 18.5 27.7
125 11.1 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



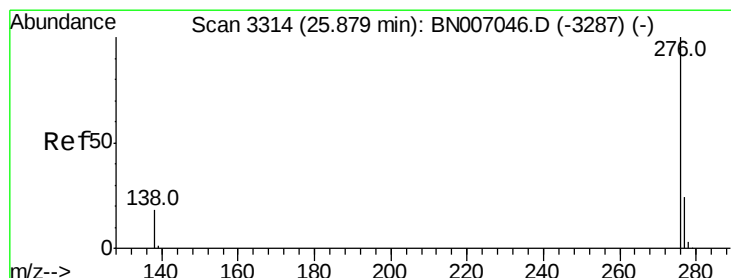
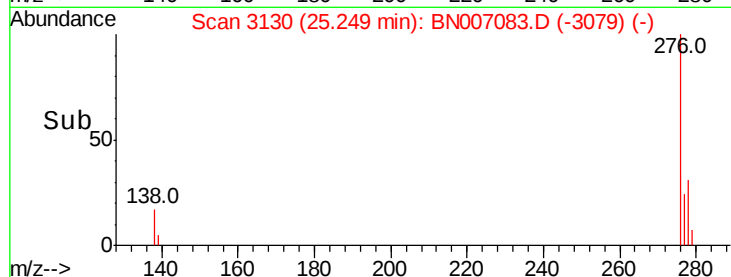
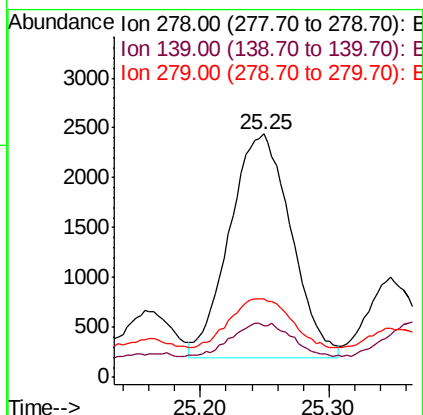
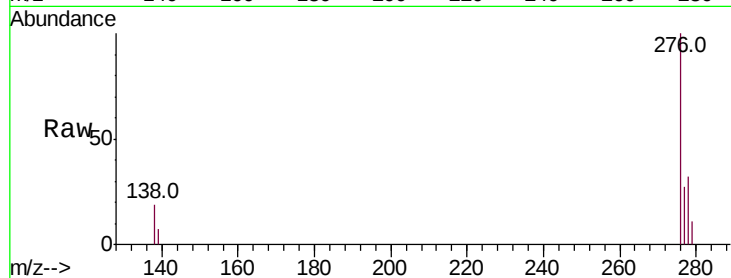


#36
Dibenzo(a,h)anthracene
Concen: 0.041 ng
RT: 25.25 min Scan# 3130
Delta R.T. -0.02 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 7474

Ion	Ratio	Lower	Upper
278	100		
139	21.5	11.3	16.9#
279	32.4	19.3	28.9#



#37
Benzo(g,h,i)perylene
Concen: 0.145 ng
RT: 25.86 min Scan# 3309
Delta R.T. -0.02 min
Lab File: BN007083.D
Acq: 11 Aug 2019 12:50

Tgt Ion:276 Resp: 26957

Ion	Ratio	Lower	Upper
276	100		
277	25.9	19.8	29.8
138	19.3	14.6	22.0

