

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007106.D
 Acq On : 12 Aug 2019 20:06
 Operator : HP/JU
 Sample : K4143-14
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 04:16:58 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	8908	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	33972	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	19925	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	48276	0.40	ng	0.00
26) Chrysene-d12	21.05	240	49219	0.40	ng	-0.01
32) Perylene-d12	23.16	264	53464	0.40	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) 2-Fluorophenol	5.06	112	5740	0.27	ng	0.00
4) Phenol-d6	6.61	99	7848	0.30	ng	0.00
7) Nitrobenzene-d5	8.56	82	6064	0.22	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14322	0.23	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1992	0.19	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3763	0.13	ng	0.00
24) Fluoranthene-d10	18.87	212	35963	0.21	ng	0.00
28) Terphenyl-d14	19.49	244	27662	0.21	ng	-0.01

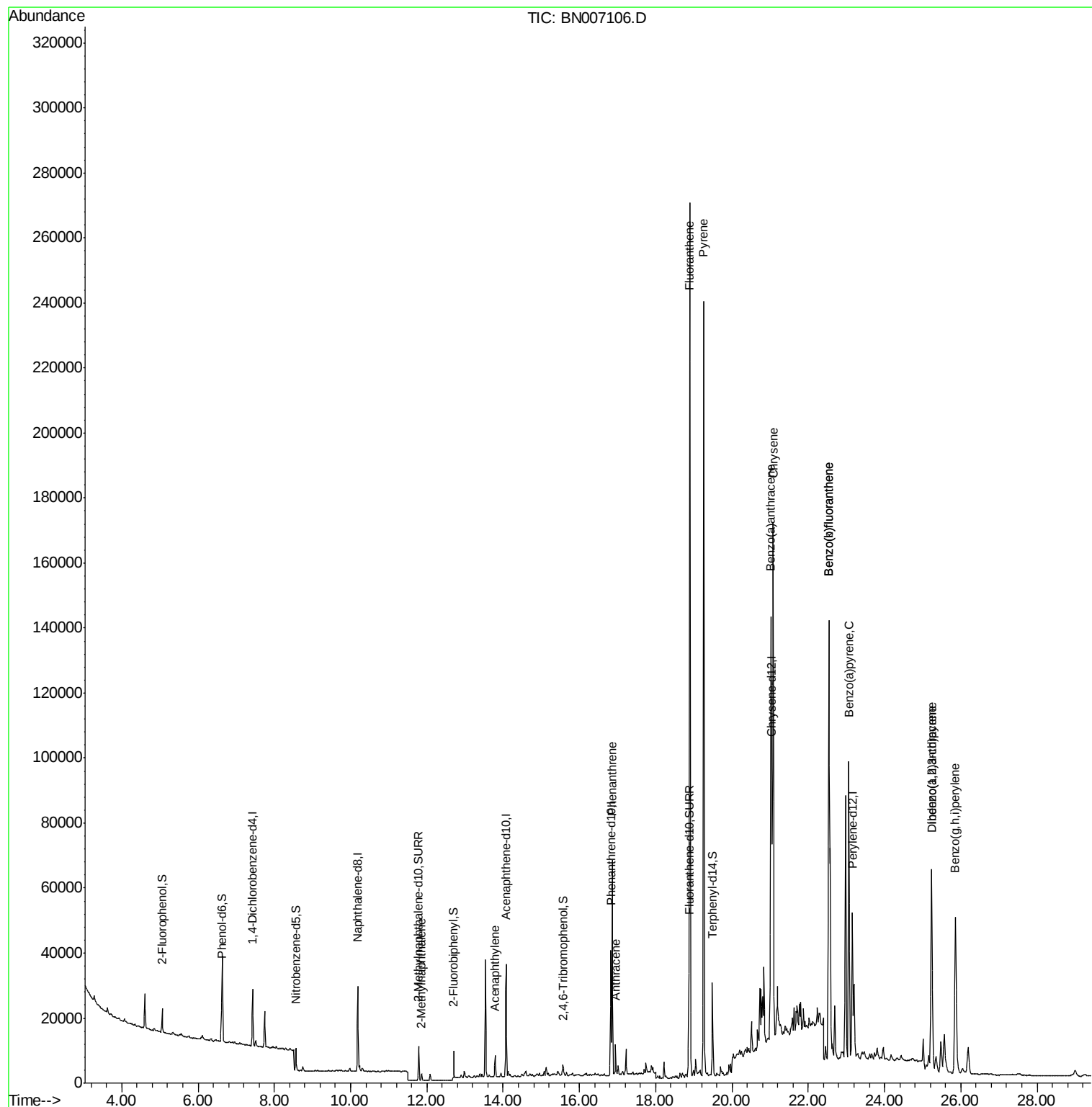
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) 2-Methylnaphthalene	11.86	142	1642	0.024	ng	# 87
15) Acenaphthylene	13.79	152	8006	0.077	ng	97
22) Phenanthrene	16.87	178	65787	0.455	ng	100
23) Anthracene	16.95	178	9794	0.074	ng	# 92
25) Fluoranthene	18.90	202	239283	1.293	ng	100
27) Pyrene	19.26	202	211744	1.227	ng	# 96
29) Benzo(a)anthracene	21.02	228	112584	0.625	ng	96
30) Chrysene	21.08	228	146885	0.840	ng	98
31) Indeno(1,2,3-cd)pyrene	25.23	276	97001	0.503	ng	98
33) Benzo(b)fluoranthene	22.54	252	209524	1.143	ng	99
34) Benzo(k)fluoranthene	22.54	252	209524	1.157	ng	99
35) Benzo(a)pyrene	23.07	252	121646	0.732	ng	100
36) Dibenzo(a,h)anthracene	25.25	278	24054	0.145	ng	# 84
37) Benzo(g,h,i)perylene	25.86	276	99385	0.583	ng	99

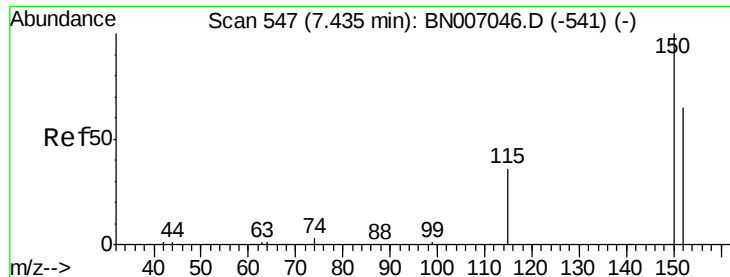
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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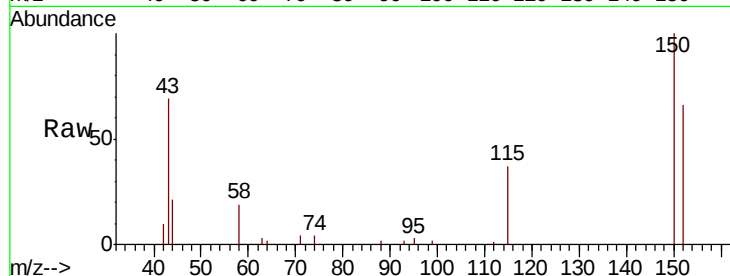


#1

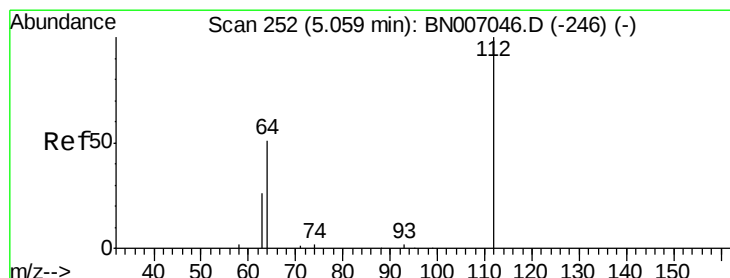
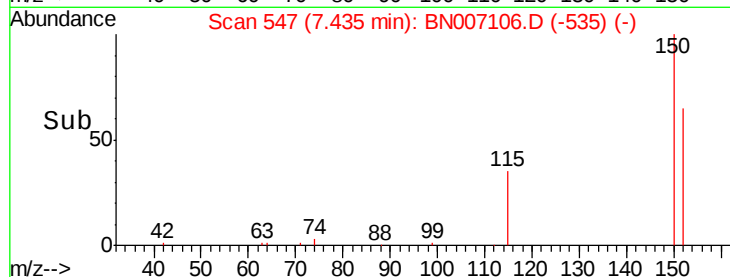
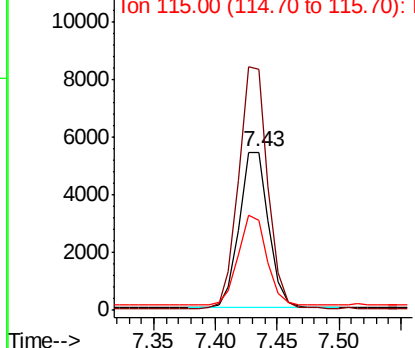
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007106.D
Acq: 12 Aug 2019 20:06

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 8908
Ion Ratio Lower Upper
152 100
150 151.9 121.7 182.5
115 56.8 46.2 69.4



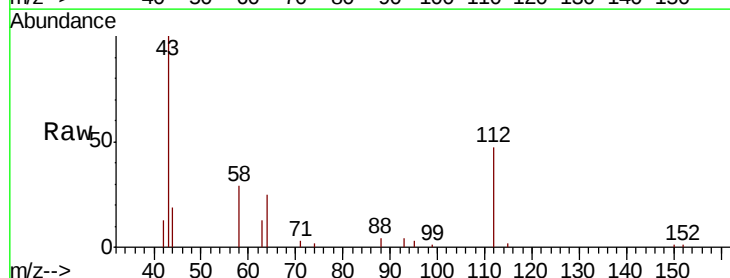
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



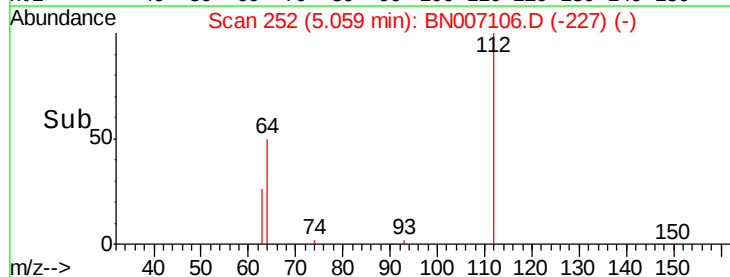
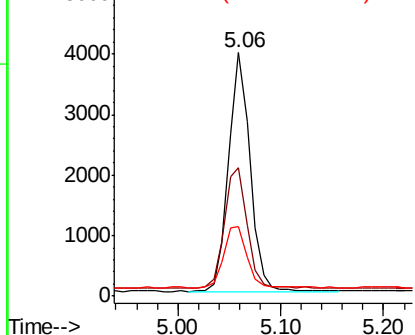
#3

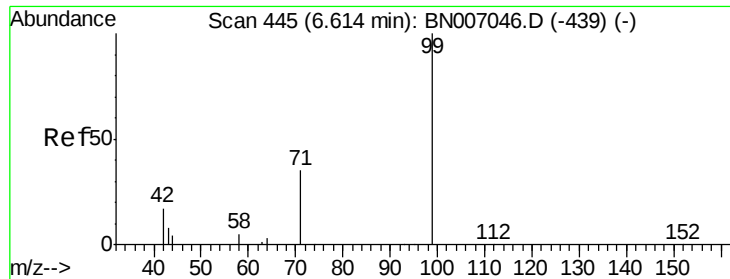
2-Fluorophenol
Concen: 0.268 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007106.D
Acq: 12 Aug 2019 20:06

Tgt Ion:112 Resp: 5740
Ion Ratio Lower Upper
112 100
64 53.5 42.6 63.8
63 26.9 22.2 33.2



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





#4

Phenol-d6

Concen: 0.296 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampleId :

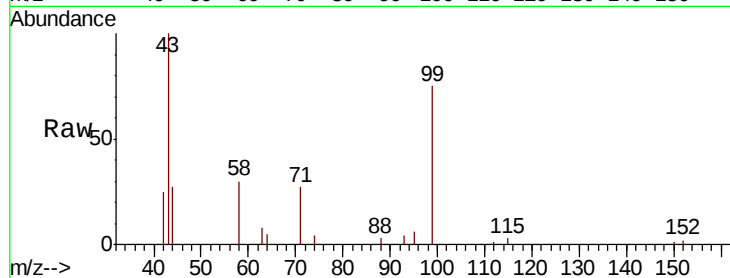
Tot Ion: 99 Resp: 7848

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

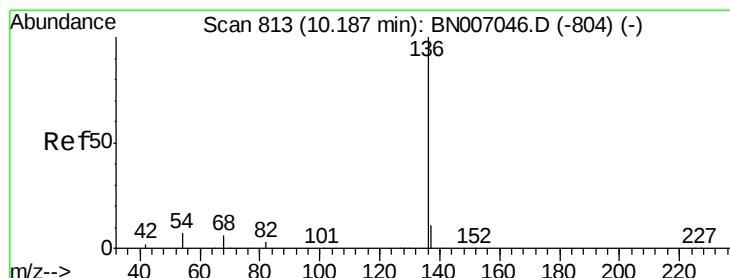
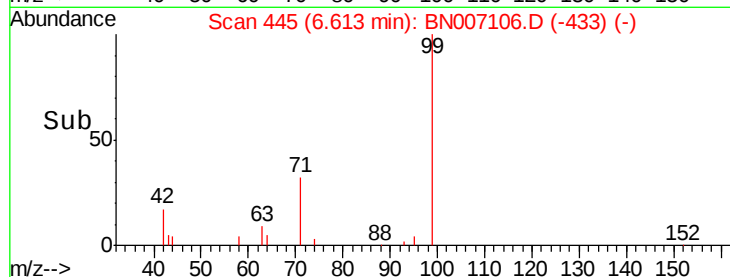
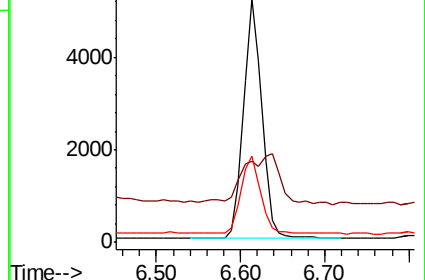
71 33.2 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007106.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007106.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007106.D (-433) (-)



#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Tgt Ion: 136 Resp: 33972

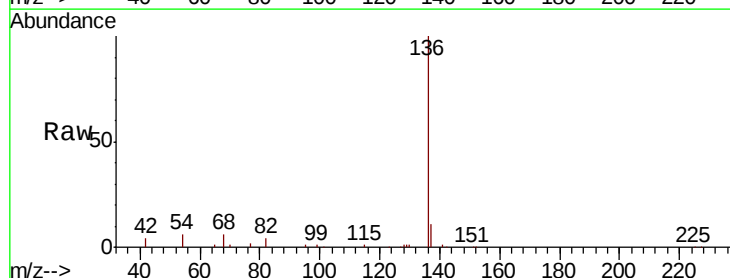
Ion Ratio Lower Upper

136 100

137 11.4 9.4 14.0

54 6.1 6.6 9.8#

68 5.8 6.0 9.0#

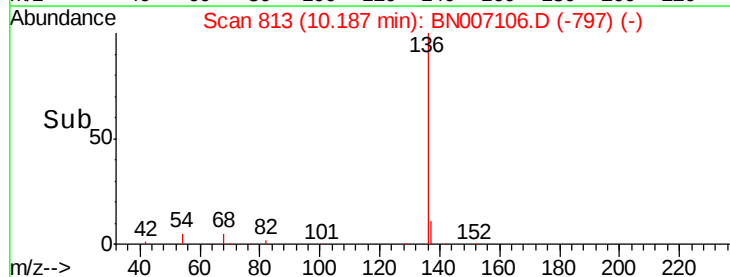
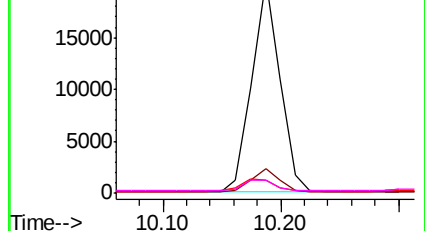


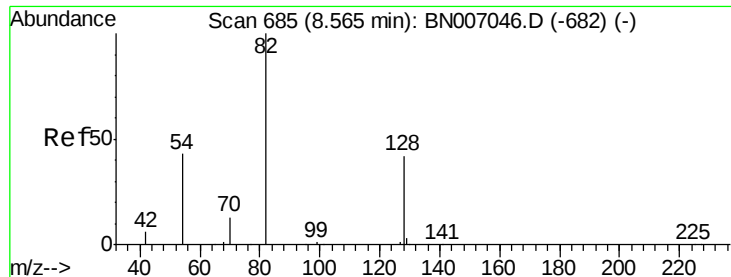
Abundance Ion 136.00 (135.70 to 136.70): BN007106.D (-797) (-)

Ion 137.00 (136.70 to 137.70): BN007106.D (-797) (-)

Ion 54.00 (53.70 to 54.70): BN007106.D (-797) (-)

Ion 68.00 (67.70 to 68.70): BN007106.D (-797) (-)





#7

Nitrobenzene-d5

Concen: 0.221 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampleId :

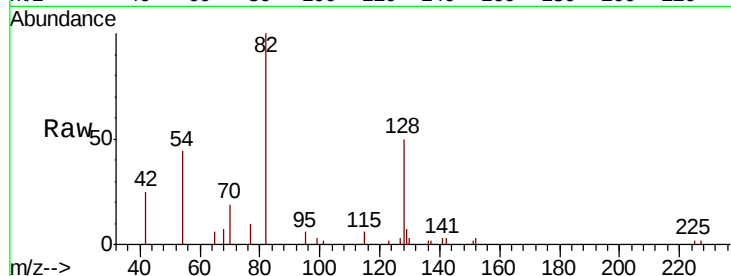
Tot Ion: 82 Resp: 6064

Ion Ratio Lower Upper

82 100

128 50.3 34.6 51.8

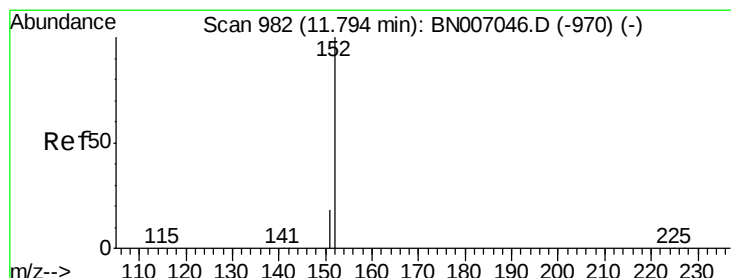
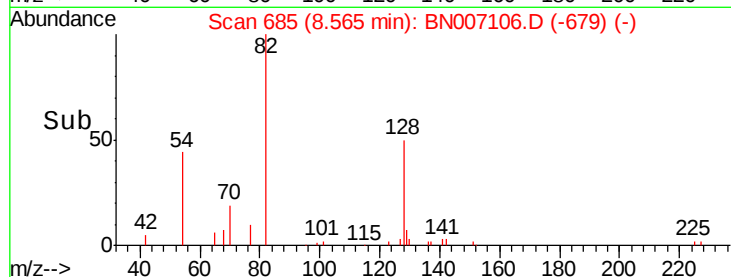
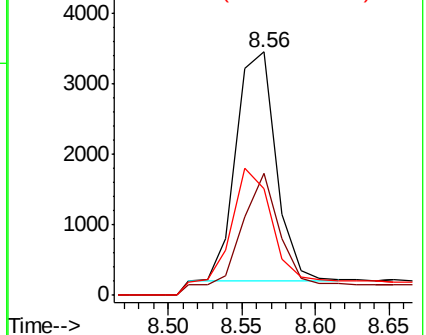
54 43.9 36.2 54.4



Abundance Ion 82.00 (81.70 to 82.70): BN007106.D (-679) (-)

Ion 128.00 (127.70 to 128.70): BN007106.D (-679) (-)

Ion 54.00 (53.70 to 54.70): BN007106.D (-679) (-)



#10

2-Methylnaphthalene-d10

Concen: 0.226 ng

RT: 11.79 min Scan# 981

Delta R.T. -0.00 min

Lab File: BN007106.D

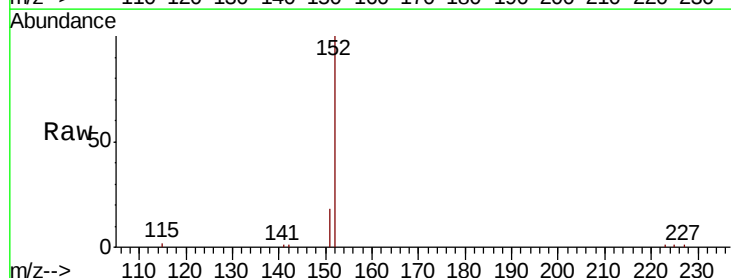
Acq: 12 Aug 2019 20:06

Tgt Ion: 152 Resp: 14322

Ion Ratio Lower Upper

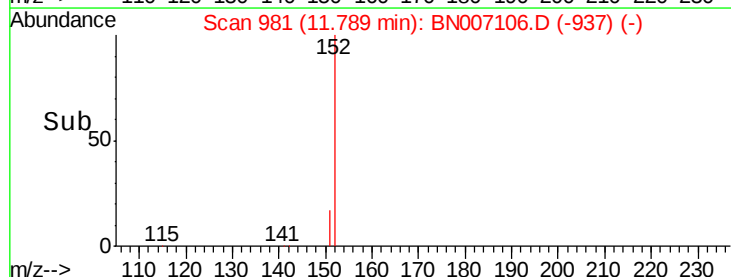
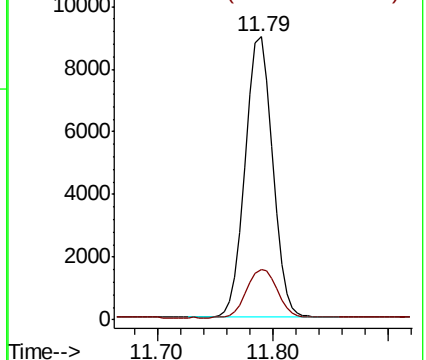
152 100

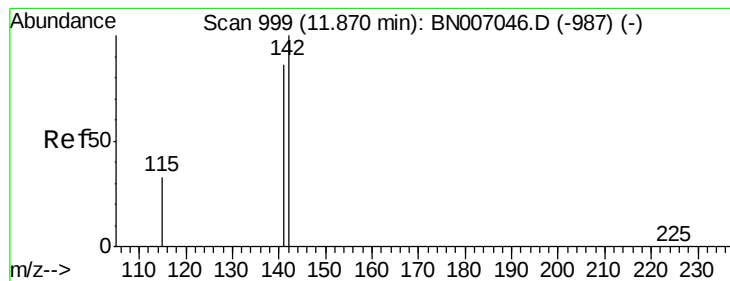
151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BN007106.D (-937) (-)

Ion 151.00 (150.70 to 151.70): BN007106.D (-937) (-)





#11

2-Methylnaphthalene

Concen: 0.024 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampled :

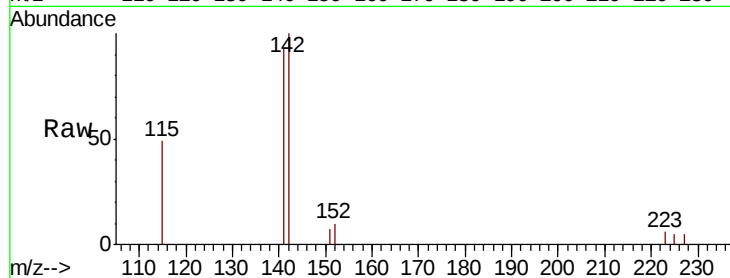
Tot Ion:142 Resp: 1642

Ion Ratio Lower Upper

142 100

141 93.3 69.0 103.6

115 48.8 27.1 40.7#

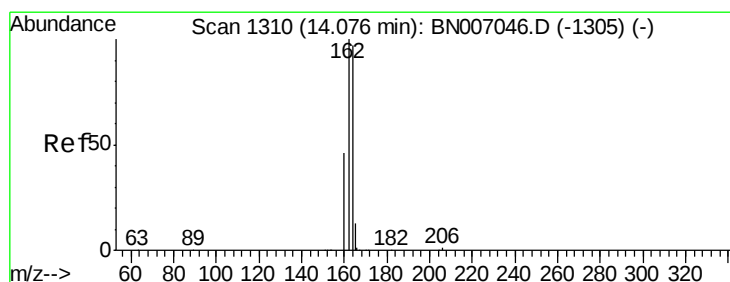
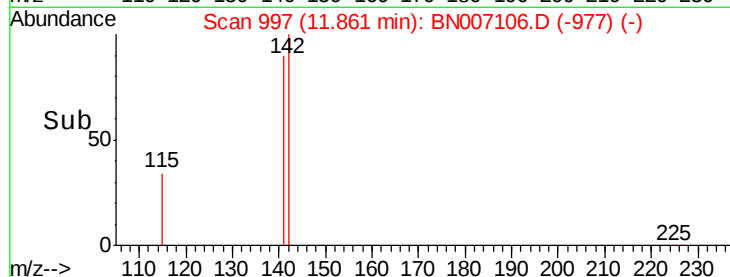
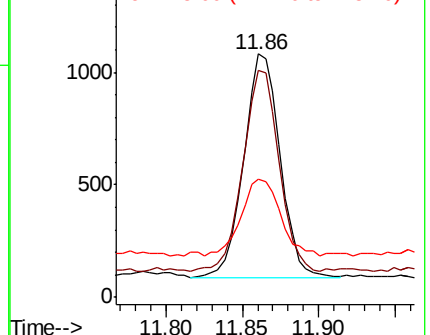


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

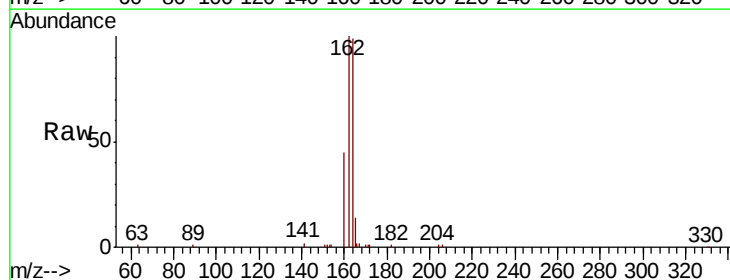
Tgt Ion:164 Resp: 19925

Ion Ratio Lower Upper

164 100

162 100.9 82.2 123.4

160 45.6 38.3 57.5

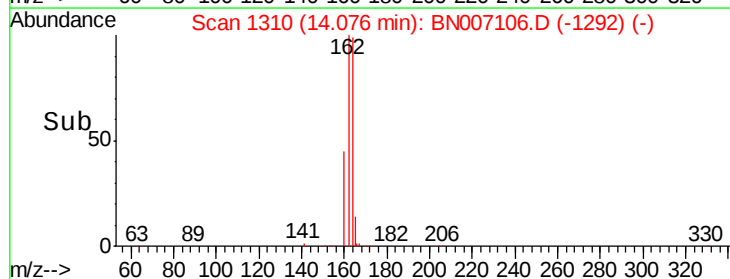
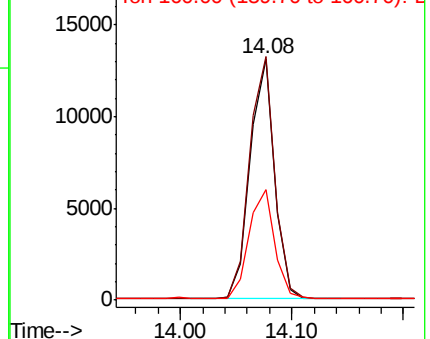


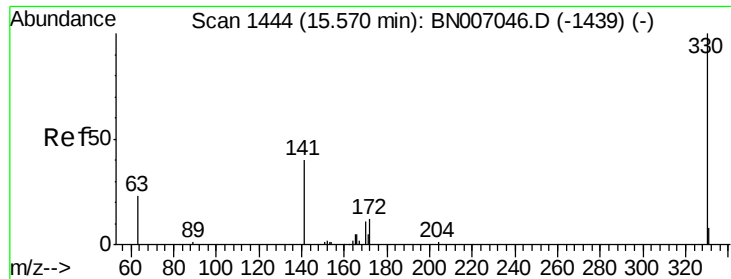
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

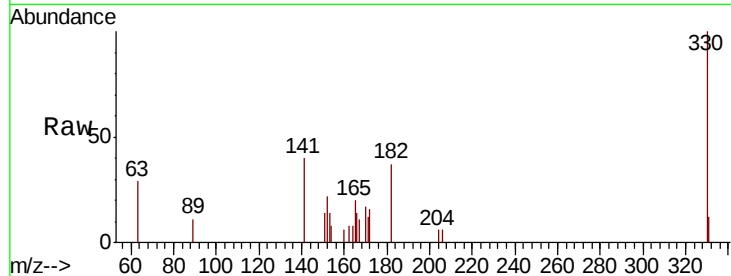




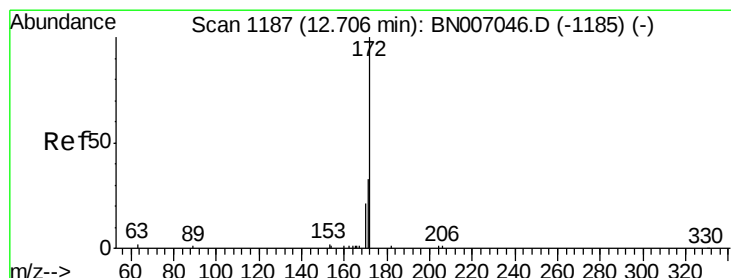
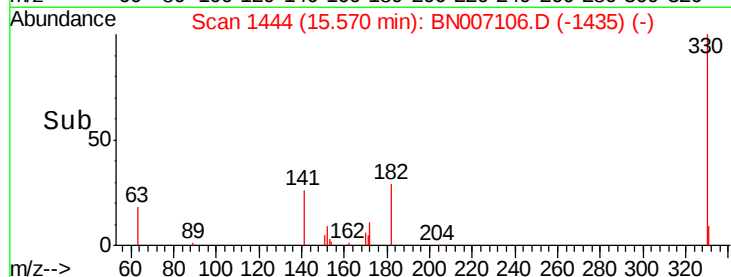
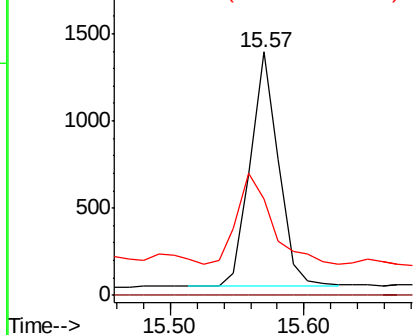
#13
 2,4,6-Tribromophenol
 Concen: 0.186 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007106.D
 Acq: 12 Aug 2019 20:06

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:330 Resp: 1992
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 48.0 33.6 50.4

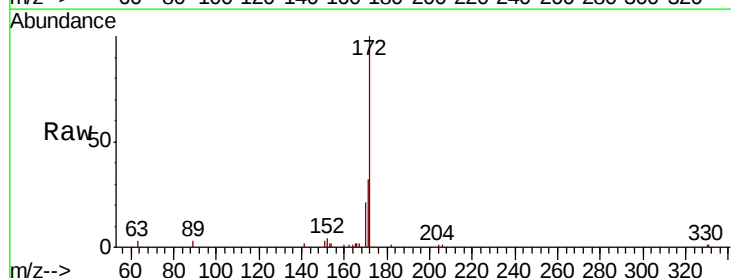


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

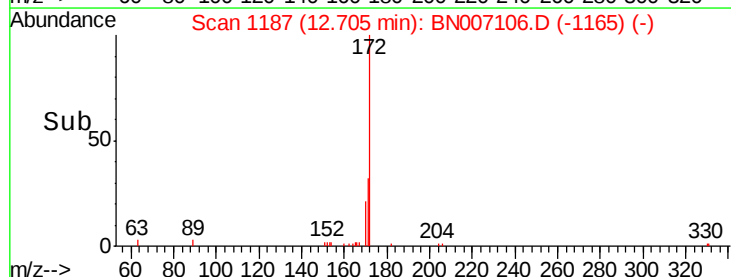
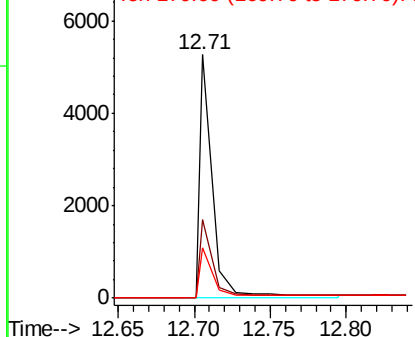


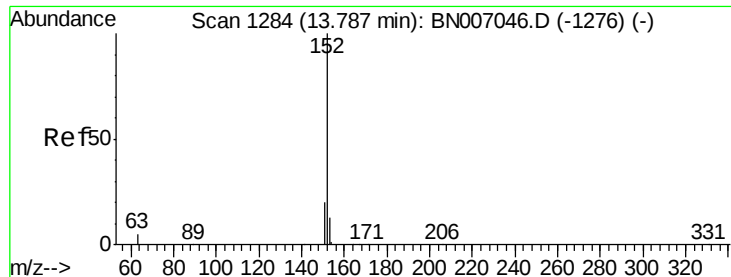
#14
 2-Fluorobiphenyl
 Concen: 0.130 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007106.D
 Acq: 12 Aug 2019 20:06

Tgt Ion:172 Resp: 3763
 Ion Ratio Lower Upper
 172 100
 171 32.4 26.3 39.5
 170 20.9 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: 0.077 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampleId :

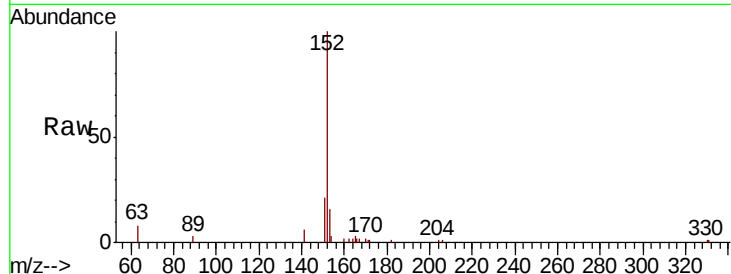
Tot Ion:152 Resp: 8006

Ion Ratio Lower Upper

152 100

151 20.9 15.8 23.6

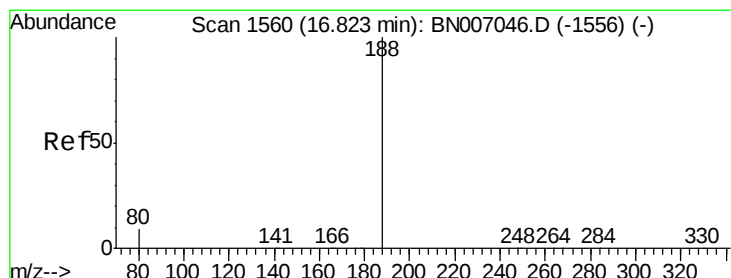
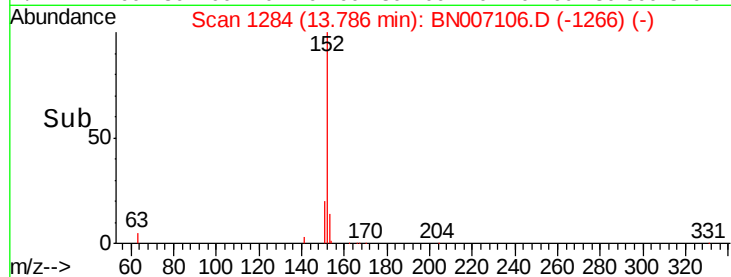
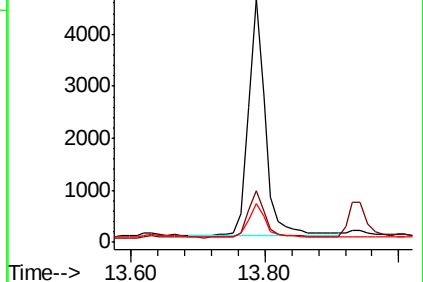
153 14.0 10.4 15.6



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: BN007106.D

Acq: 12 Aug 2019 20:06

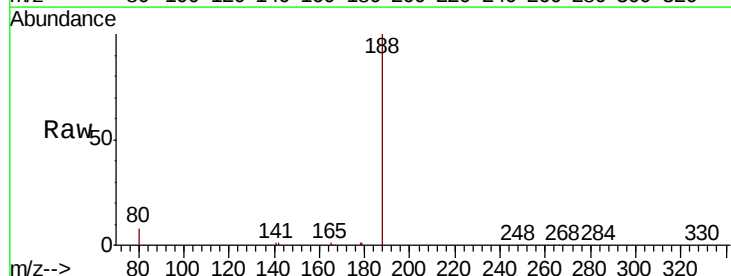
Tgt Ion:188 Resp: 48276

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

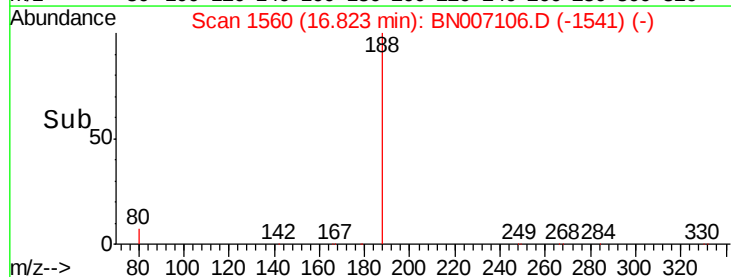
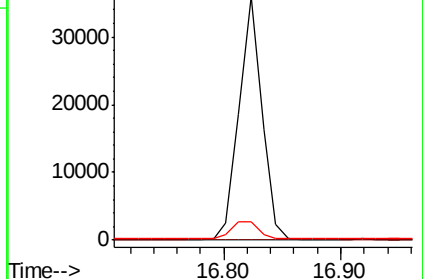
80 7.6 7.8 11.6#

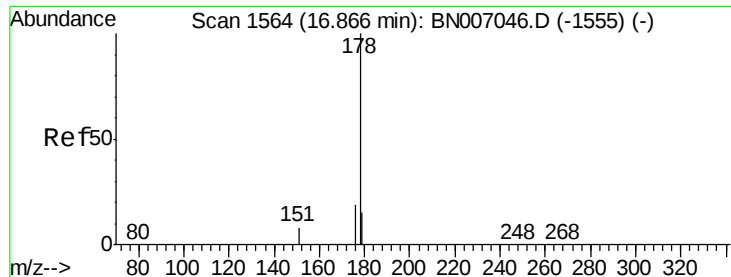


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Phenanthrene

Concen: 0.455 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

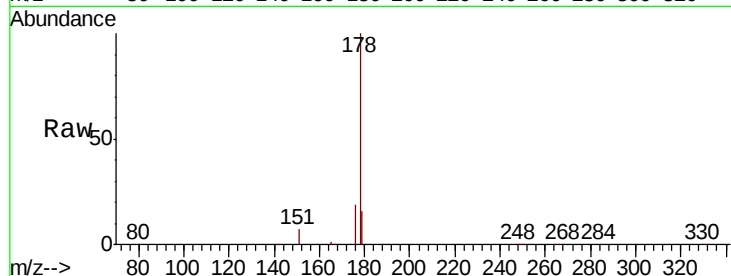
Instrument :

BNA_N

ClientSampleId :

Tot Ion:178 Resp: 65787

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.2	22.8
179	15.5	12.3	18.5

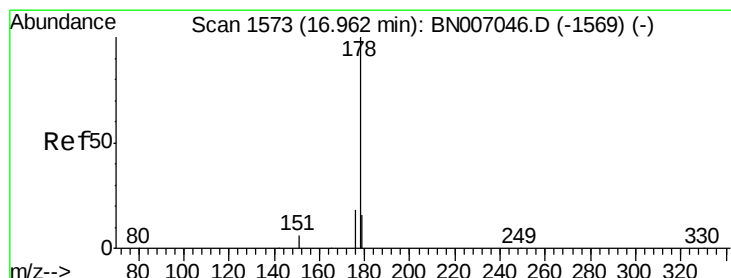
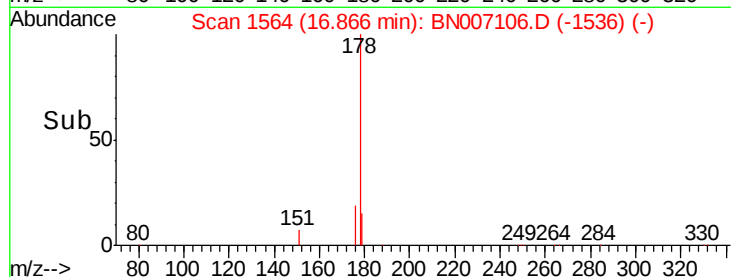
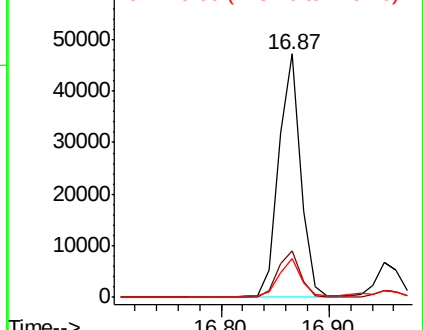


Abundance

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: 0.074 ng

RT: 16.95 min Scan# 1572

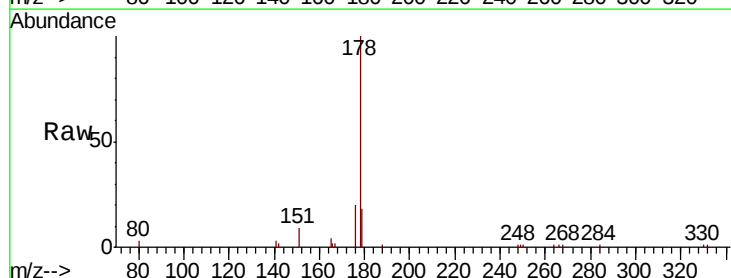
Delta R.T. -0.01 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Tgt Ion:178 Resp: 9794

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	22.6	12.5	18.7#

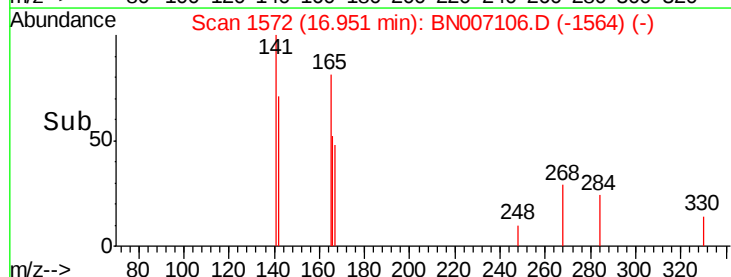
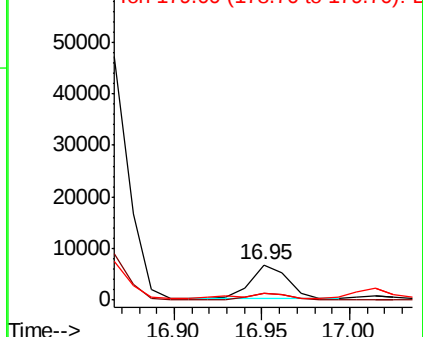


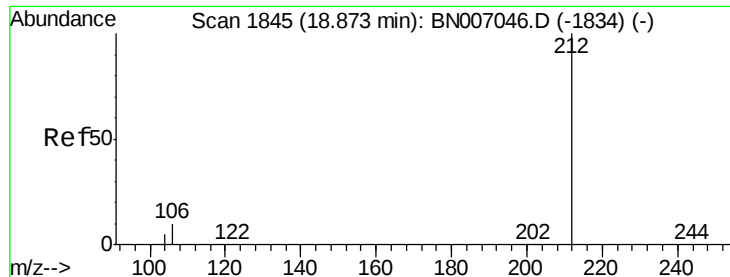
Abundance

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: 0.210 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampleId :

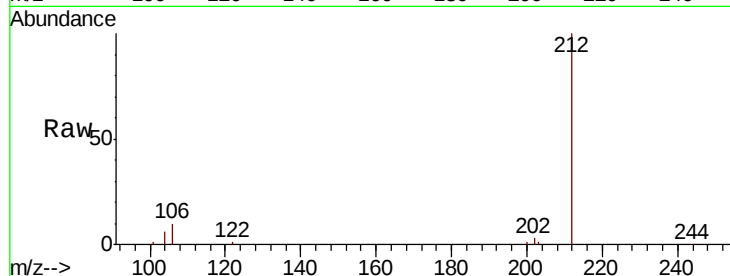
Tot Ion:212 Resp: 35963

Ion Ratio Lower Upper

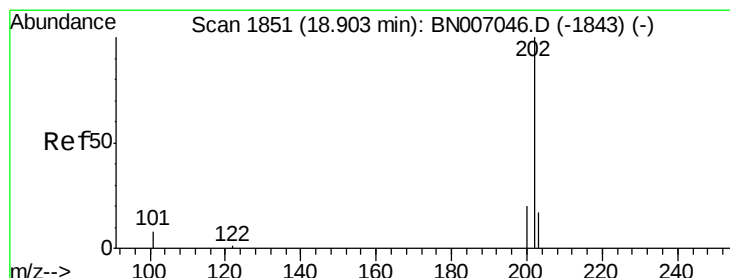
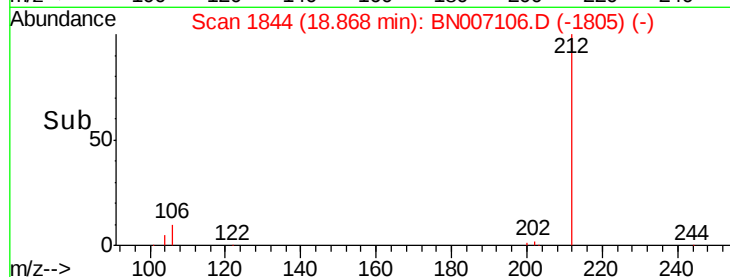
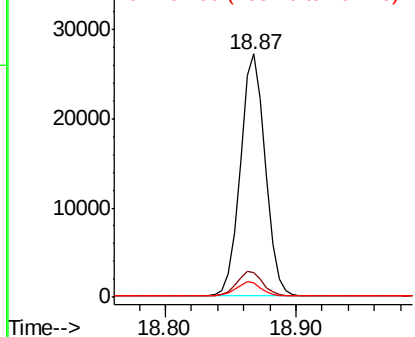
212 100

106 10.3 8.2 12.2

104 6.0 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: 1.293 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

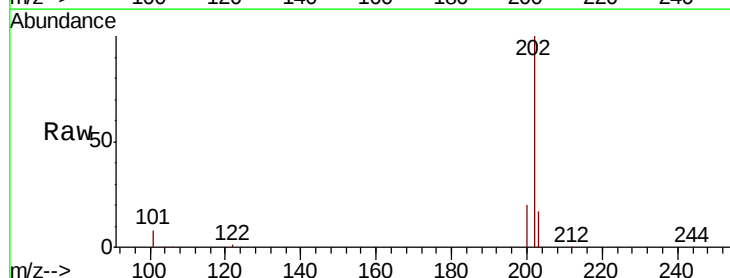
Tgt Ion:202 Resp: 239283

Ion Ratio Lower Upper

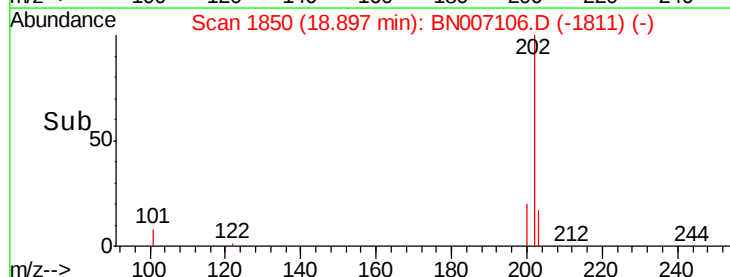
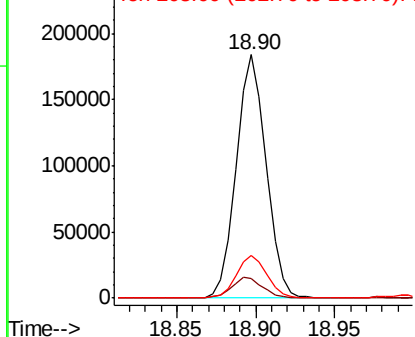
202 100

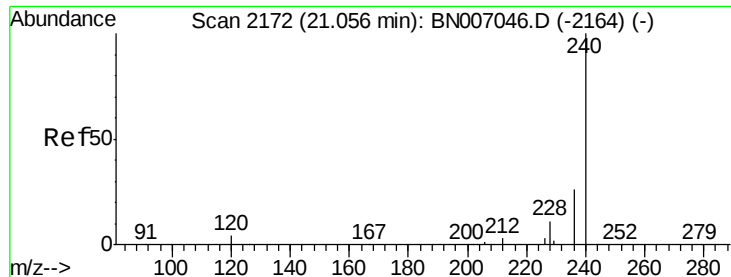
101 8.7 7.0 10.4

203 17.4 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

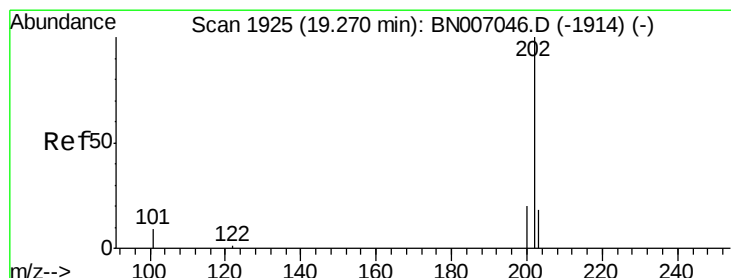
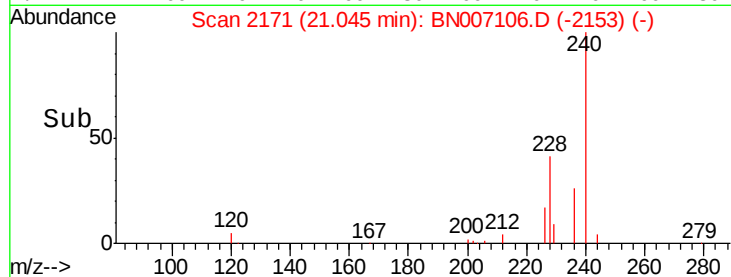
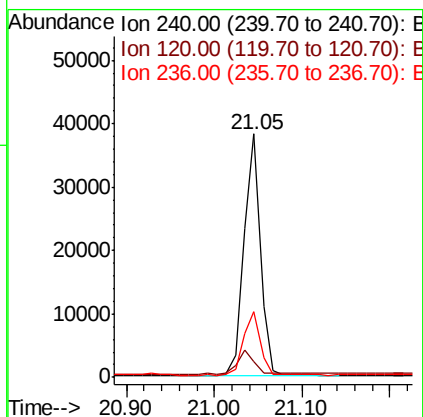
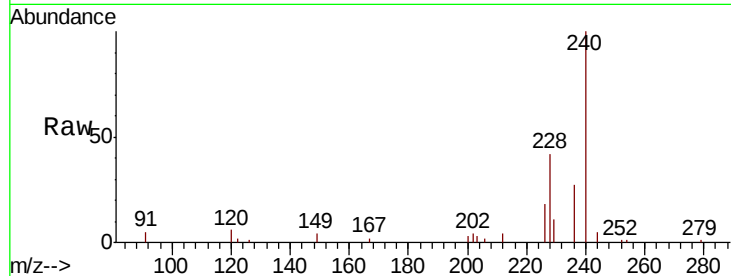




#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007106.D
Acq: 12 Aug 2019 20:06

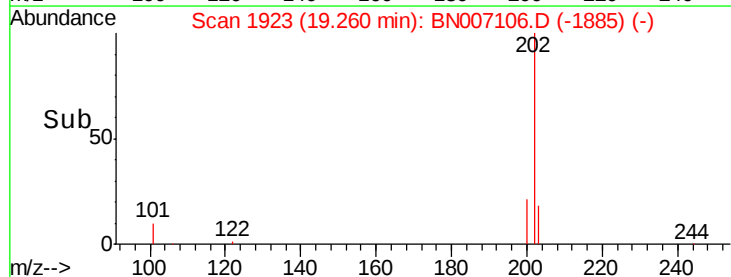
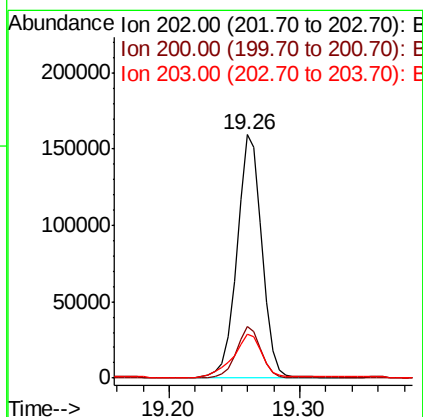
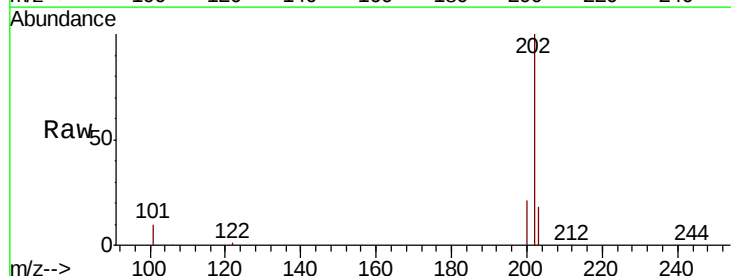
Instrument :
BNA_N
ClientSampled :

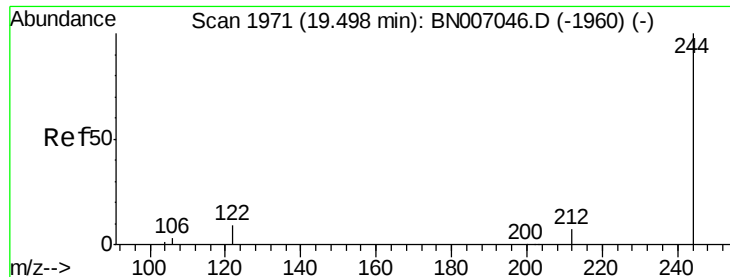
Tot Ion:240 Resp: 49219
Ion Ratio Lower Upper
240 100
120 6.3 4.0 6.0#
236 27.2 21.3 31.9



#27
Pyrene
Concen: 1.227 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007106.D
Acq: 12 Aug 2019 20:06

Tgt Ion:202 Resp: 211744
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 21.1 14.0 21.0#





#28

Terphenyl-d14

Concen: 0.206 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

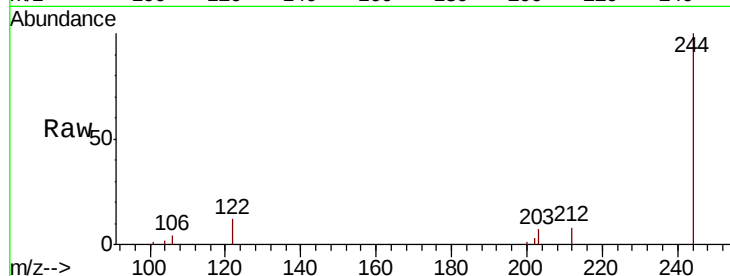
Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampleId :



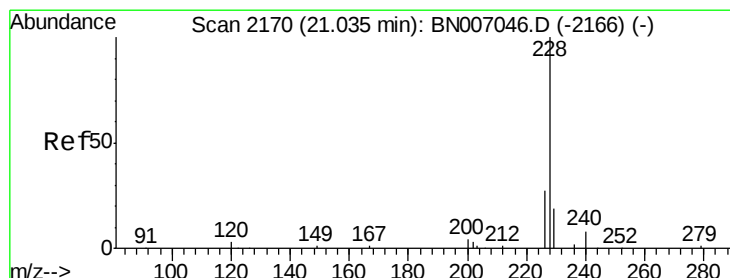
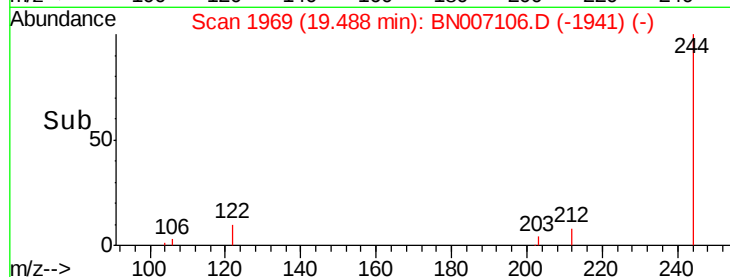
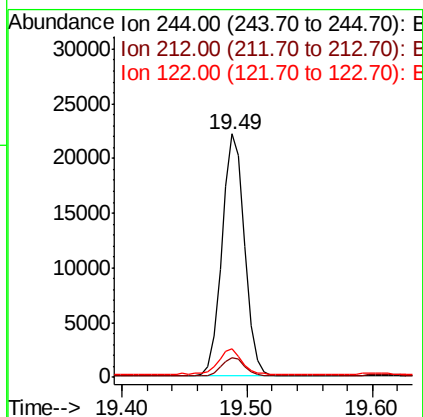
Tot Ion:244 Resp: 27662

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

122 11.6 7.4 11.2#



#29

Benzo(a)anthracene

Concen: 0.625 ng

RT: 21.02 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

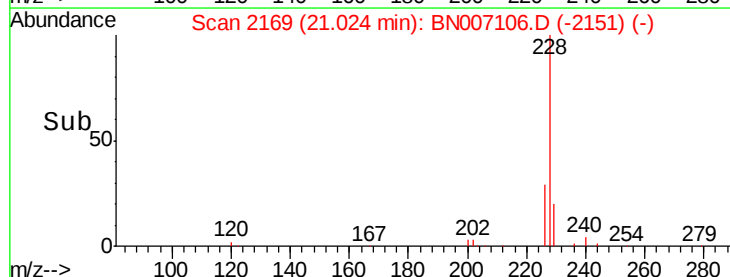
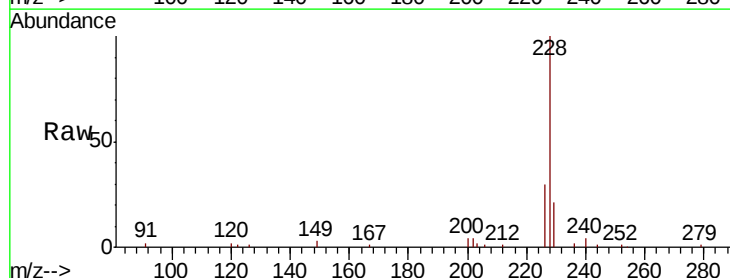
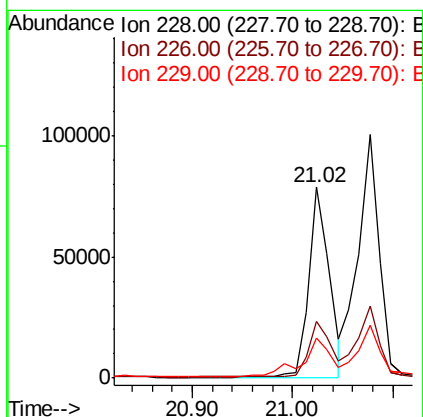
Tgt Ion:228 Resp: 112584

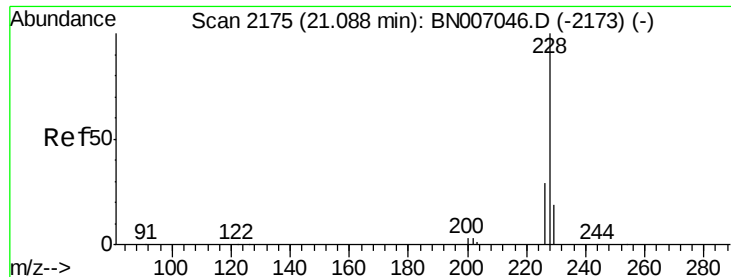
Ion Ratio Lower Upper

228 100

226 30.0 21.8 32.6

229 20.9 15.6 23.4





#30

Chrysene

Concen: 0.840 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampleId :

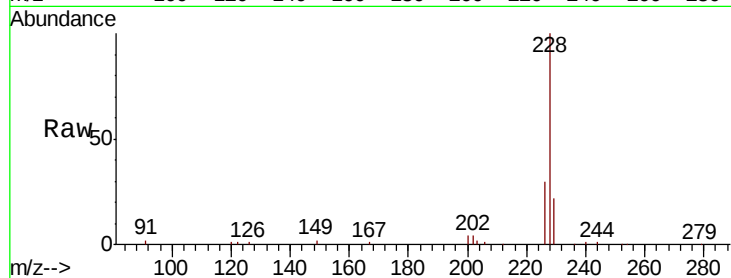
Tot Ion:228 Resp: 146885

Ion Ratio Lower Upper

228 100

226 29.7 23.8 35.6

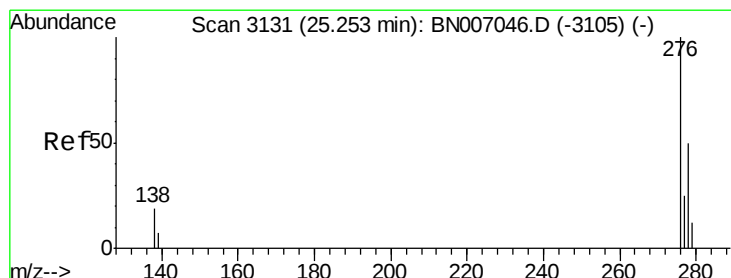
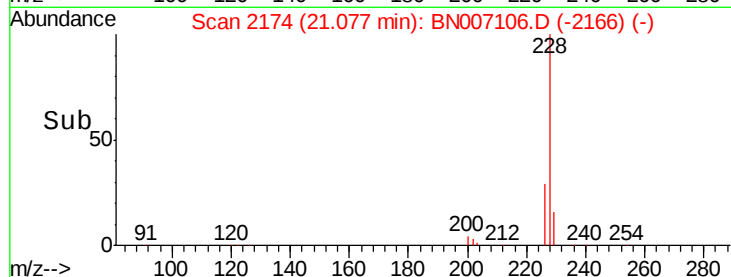
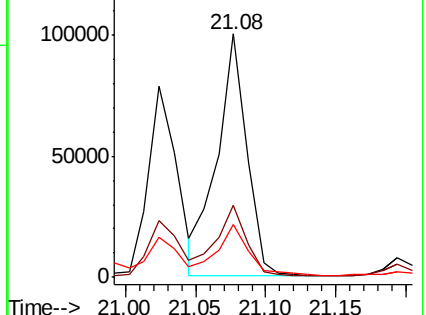
229 21.8 15.7 23.5



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



#31

Indeno(1,2,3-cd)pyrene

Concen: 0.503 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

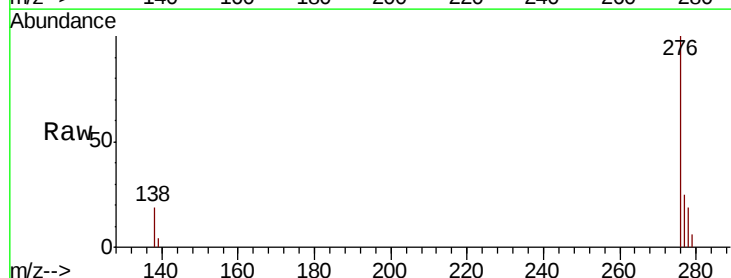
Tgt Ion:276 Resp: 97001

Ion Ratio Lower Upper

276 100

138 18.2 16.0 24.0

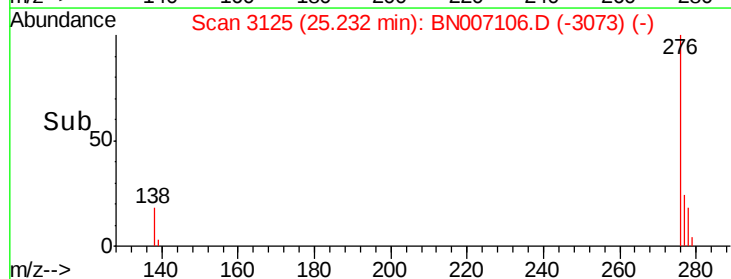
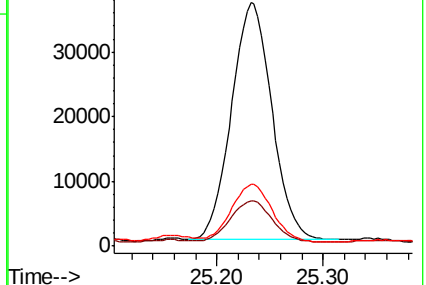
277 24.8 19.9 29.9

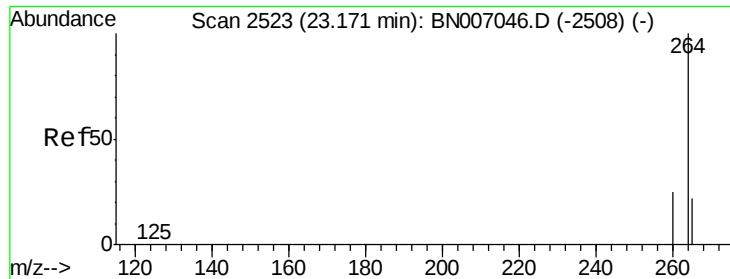


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

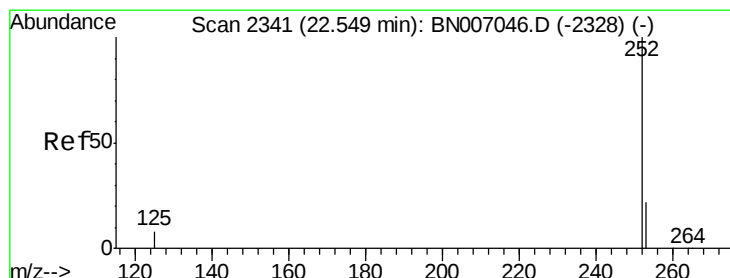
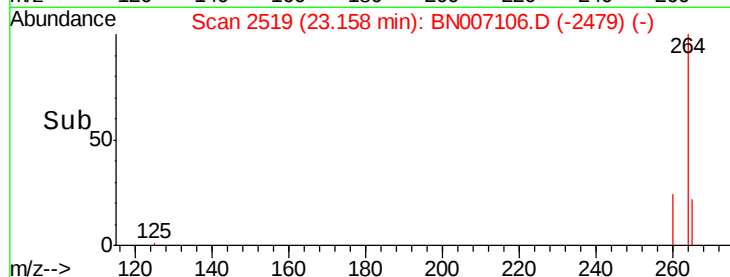
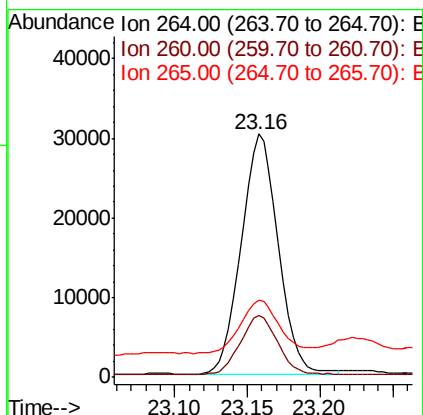
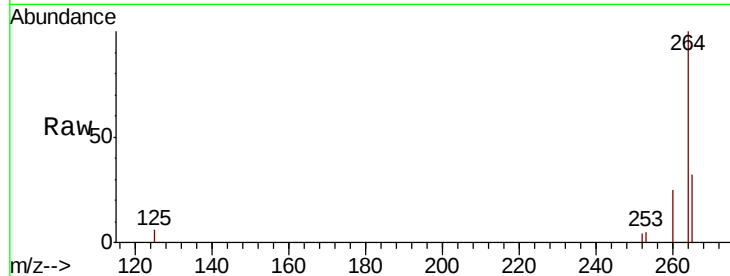




#32
 Pervlene-d12
 Concen: 0.400 ng
 RT: 23.16 min Scan# 2519
 Delta R.T. -0.01 min
 Lab File: BN007106.D
 Acq: 12 Aug 2019 20:06

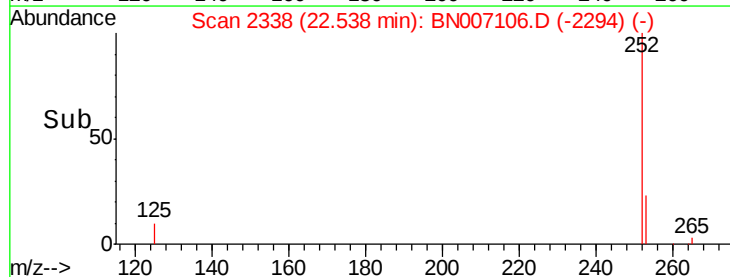
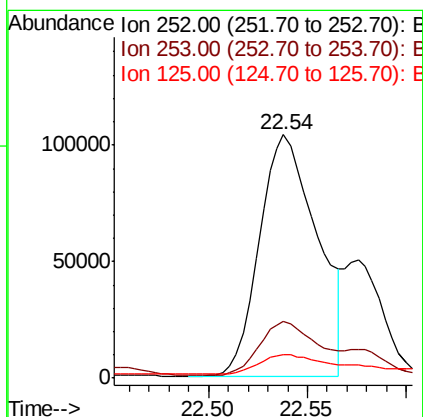
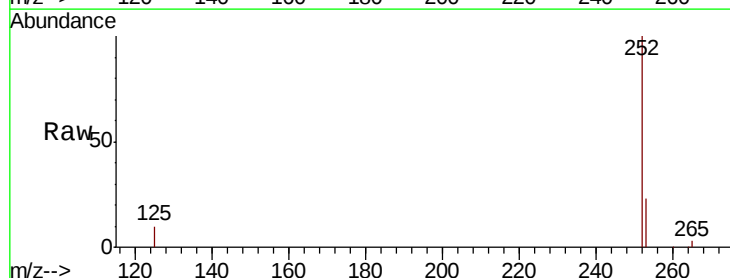
Instrument :
 BNA_N
 ClientSampleId :

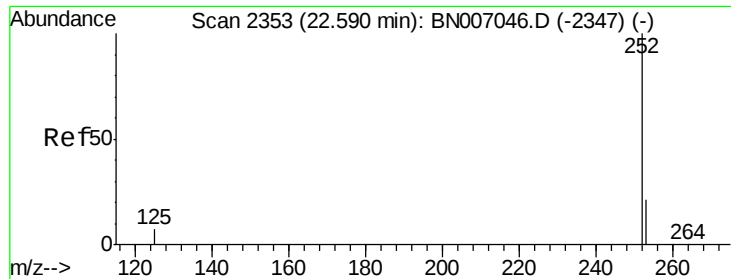
Tot Ion:264 Resp: 53464
 Ion Ratio Lower Upper
 264 100
 260 25.5 19.8 29.8
 265 31.6 26.2 39.4



#33
 Benzo(b)fluoranthene
 Concen: 1.143 ng
 RT: 22.54 min Scan# 2338
 Delta R.T. -0.01 min
 Lab File: BN007106.D
 Acq: 12 Aug 2019 20:06

Tgt Ion:252 Resp: 209524
 Ion Ratio Lower Upper
 252 100
 253 23.2 18.2 27.2
 125 9.7 7.4 11.0

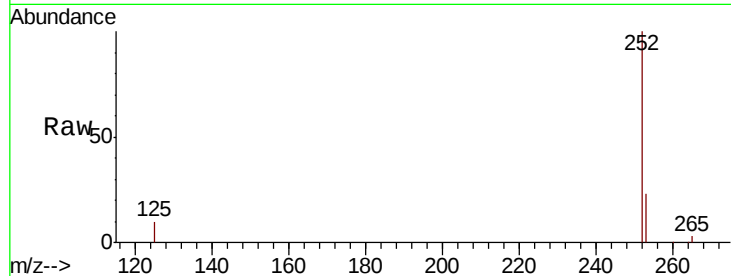




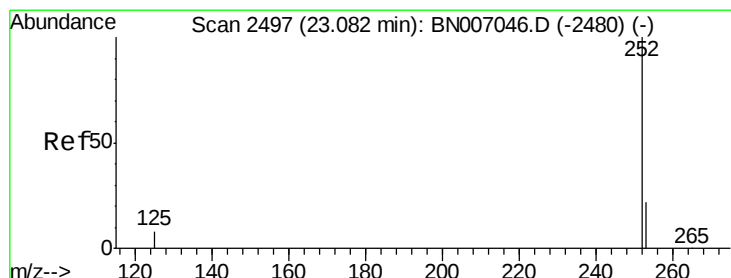
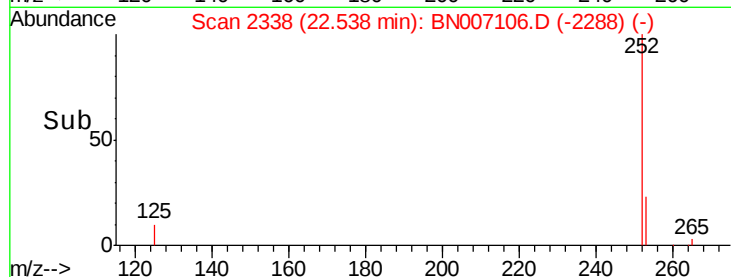
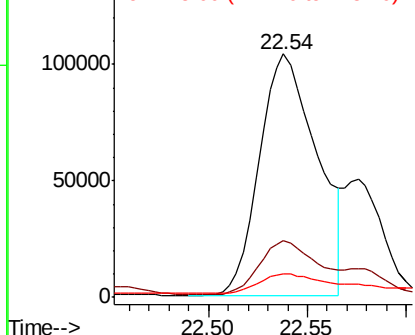
#34
Benzo(k)fluoranthene
Concen: 1.157 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.05 min
Lab File: BN007106.D
Acq: 12 Aug 2019 20:06

Instrument :
BNA_N
ClientSampleId :

Tot Ion:252 Resp: 209524
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 9.7 7.4 11.0

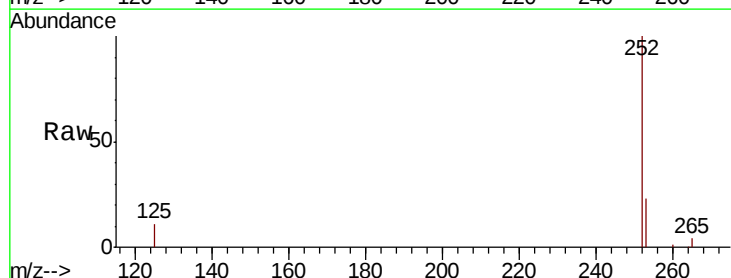


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

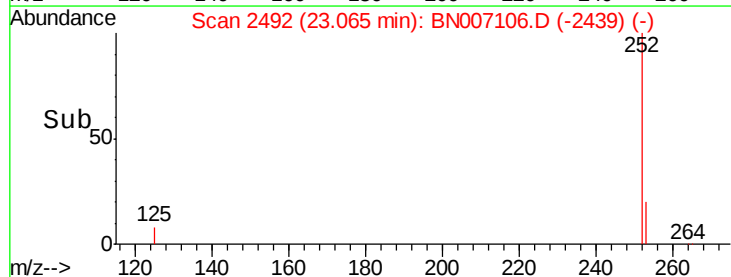
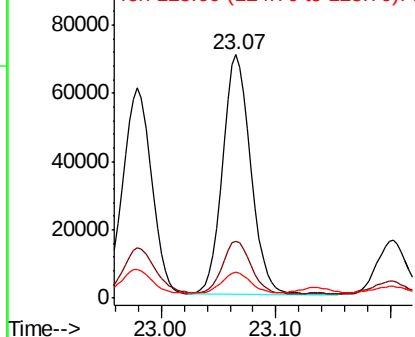


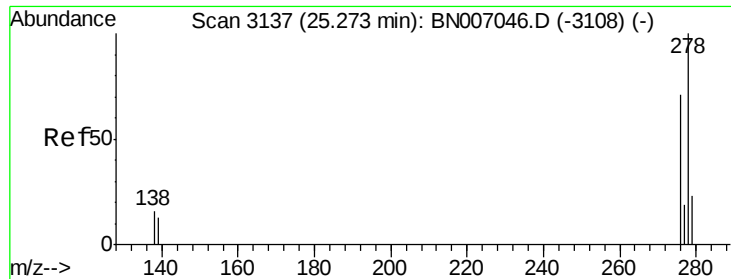
#35
Benzo(a)pyrene
Concen: 0.732 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007106.D
Acq: 12 Aug 2019 20:06

Tgt Ion:252 Resp: 121646
Ion Ratio Lower Upper
252 100
253 23.2 18.5 27.7
125 10.5 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: 0.145 ng

RT: 25.25 min Scan# 3129

Delta R.T. -0.03 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

Instrument :

BNA_N

ClientSampleId :

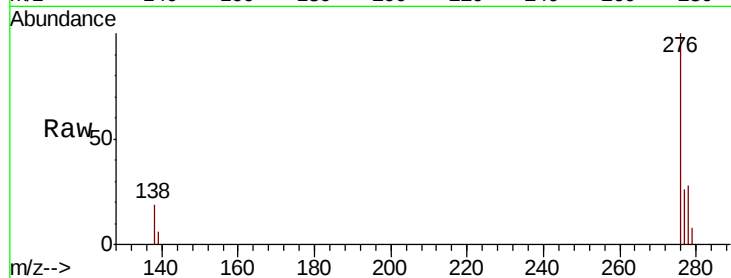
Tot Ion:278 Resp: 24054

Ion Ratio Lower Upper

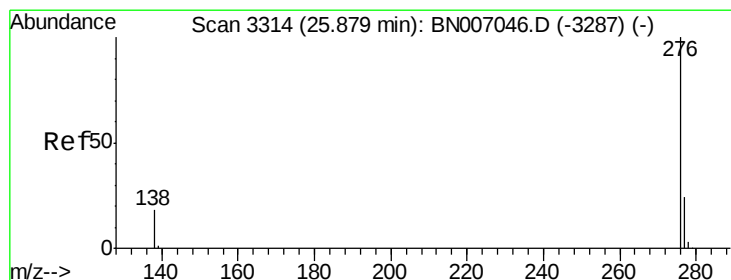
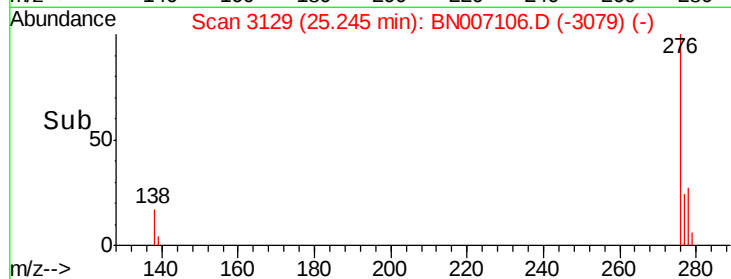
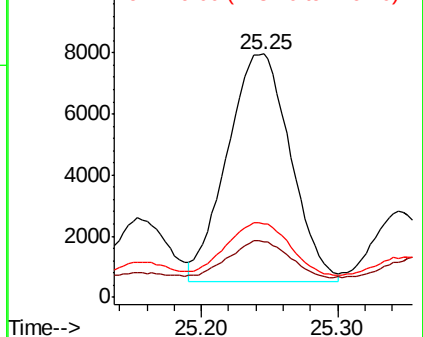
278 100

139 22.8 11.3 16.9#

279 30.1 19.3 28.9#



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



#37

Benzo(g,h,i)perylene

Concen: 0.583 ng

RT: 25.86 min Scan# 3308

Delta R.T. -0.02 min

Lab File: BN007106.D

Acq: 12 Aug 2019 20:06

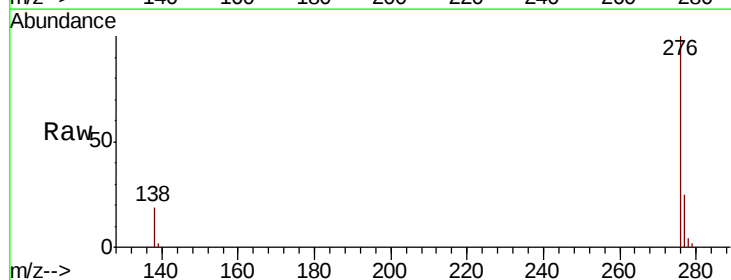
Tgt Ion:276 Resp: 99385

Ion Ratio Lower Upper

276 100

277 25.0 19.8 29.8

138 19.5 14.6 22.0



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

