

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081219\
 Data File : BN007111.D
 Acq On : 13 Aug 2019 02:42
 Operator : HP/JU
 Sample : K4143-19
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 13 06:28:37 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	9864	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	38387	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	22625	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	53519	0.40	ng	0.00
26) Chrysene-d12	21.05	240	52331	0.40	ng	-0.01
32) Perylene-d12	23.15	264	57268	0.40	ng	-0.02

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5560	0.23	ng	0.00
4) Phenol-d6	6.61	99	7671	0.26	ng	0.00
7) Nitrobenzene-d5	8.56	82	5951	0.19	ng	0.00
10) 2-Methylnaphthalene-d10	11.79	152	14032	0.20	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	2197	0.18	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	3411	0.10	ng	0.00
24) Fluoranthene-d10	18.87	212	35857	0.19	ng	0.00
28) Terphenyl-d14	19.49	244	27191	0.19	ng	-0.01

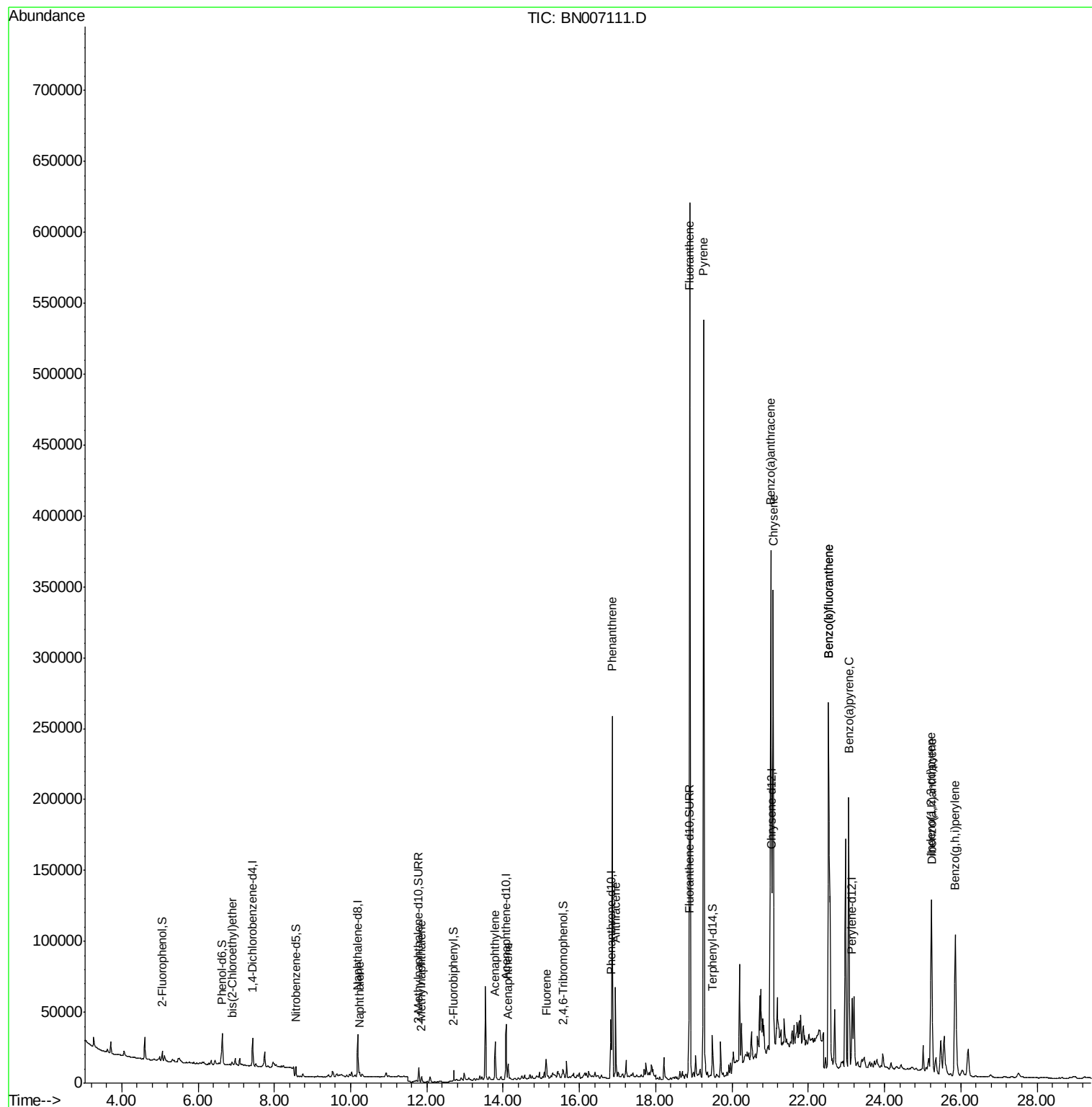
Target Compounds				Qvalue		
5) bis(2-Chloroethyl)ether	6.89	93	3008	0.116	ng	# 30
8) Naphthalene	10.24	128	4311	0.040	ng	# 89
11) 2-Methylnaphthalene	11.87	142	2845	0.037	ng	# 92
15) Acenaphthylene	13.79	152	32940	0.279	ng	100
16) Acenaphthene	14.13	154	5788	0.076	ng	96
17) Fluorene	15.14	166	10281	0.091	ng	91
22) Phenanthrene	16.87	178	252944	1.577	ng	100
23) Anthracene	16.95	178	65123	0.444	ng	98
25) Fluoranthene	18.90	202	565898	2.758	ng	100
27) Pyrene	19.26	202	488077	2.660	ng	# 95
29) Benzo(a)anthracene	21.02	228	295082	1.542	ng	95
30) Chrysene	21.08	228	302229	1.625	ng	97
31) Indeno(1,2,3-cd)pyrene	25.23	276	197368	0.963	ng	98
33) Benzo(b)fluoranthene	22.53	252	406468	2.070	ng	99
34) Benzo(k)fluoranthene	22.53	252	406468	2.096	ng	99
35) Benzo(a)pyrene	23.06	252	264768	1.487	ng	100
36) Dibenzo(a,h)anthracene	25.24	278	51673	0.291	ng	# 85
37) Benzo(a,h,i)perylene	25.85	276	202948	1.111	ng	99

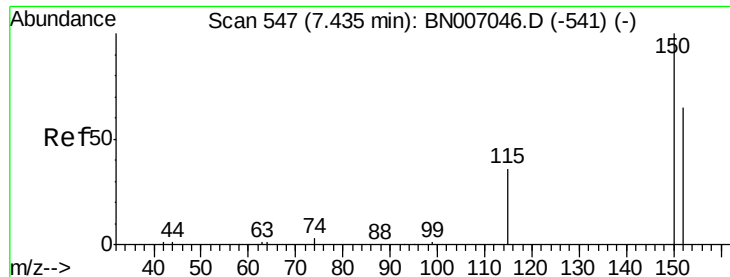
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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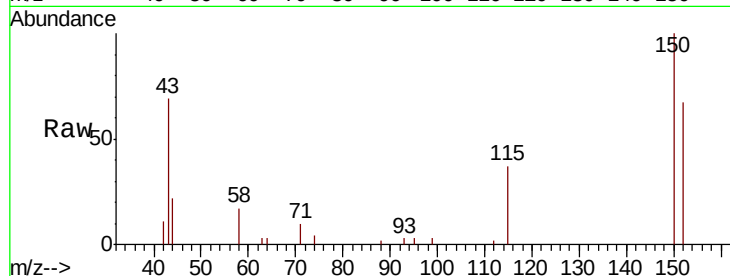


#1

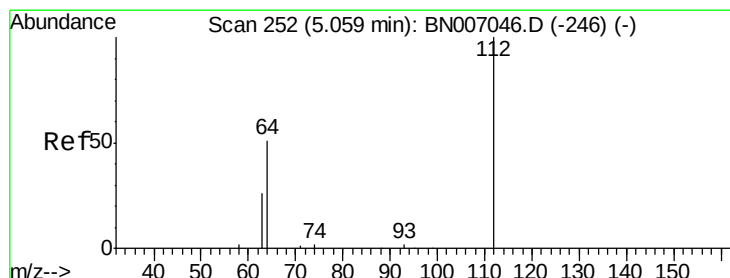
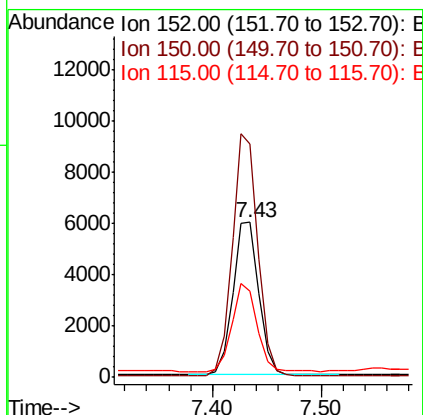
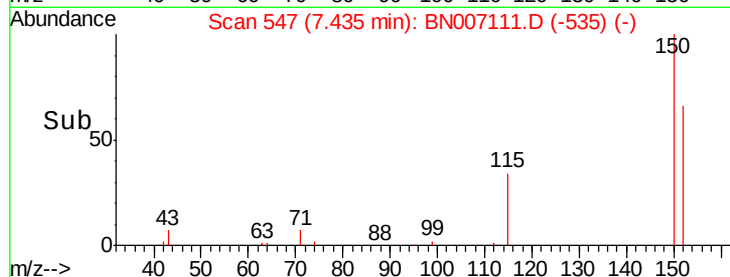
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 547
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 9864
Ion Ratio Lower Upper
152 100
150 150.3 121.7 182.5
115 55.6 46.2 69.4



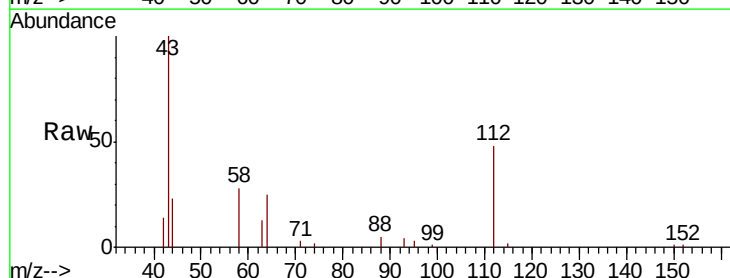
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



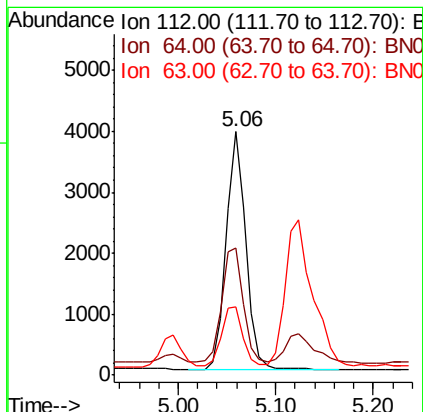
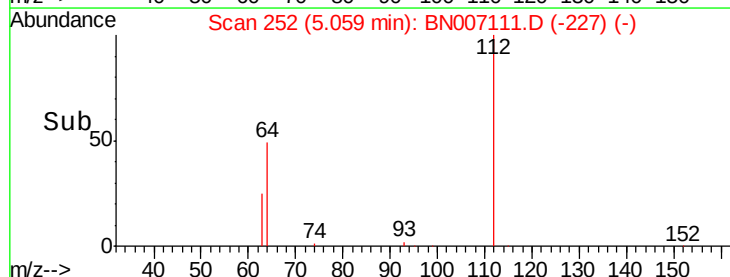
#3

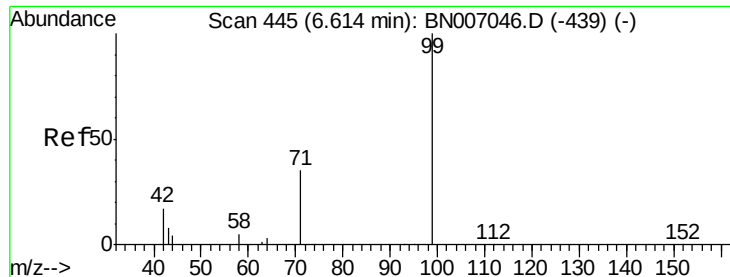
2-Fluorophenol
Concen: 0.235 ng
RT: 5.06 min Scan# 252
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion:112 Resp: 5560
Ion Ratio Lower Upper
112 100
64 52.2 42.6 63.8
63 27.3 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: 0.261 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

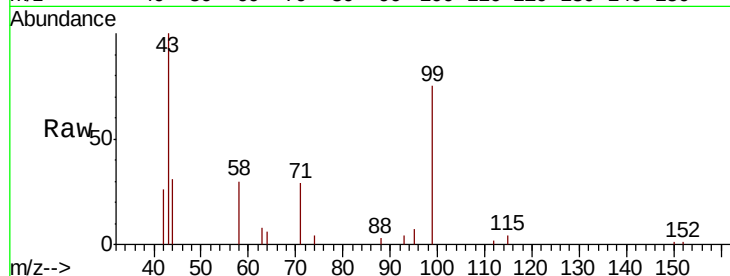
Tot Ion: 99 Resp: 7671

Ion Ratio Lower Upper

99 100

42 0.0 15.8 23.6#

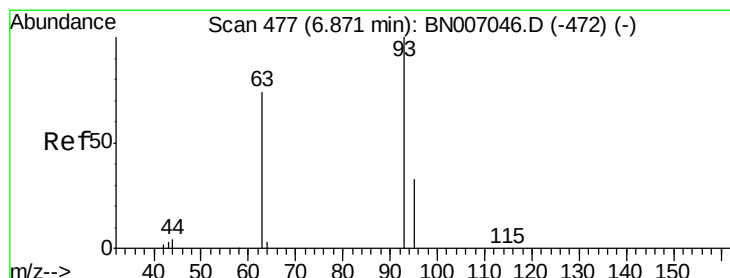
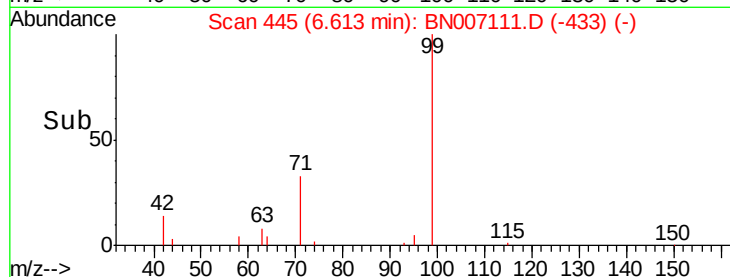
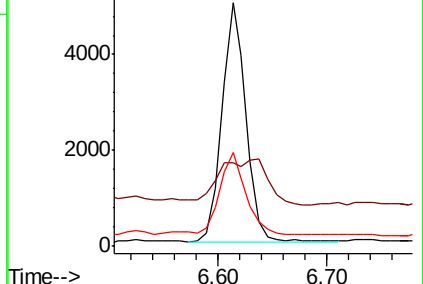
71 38.5 27.0 40.4



Abundance Ion 99.00 (98.70 to 99.70): BN007111.D (-433) (-)

Ion 42.00 (41.70 to 42.70): BN007111.D (-433) (-)

Ion 71.00 (70.70 to 71.70): BN007111.D (-433) (-)



#5

bis(2-Chloroethyl)ether

Concen: 0.116 ng

RT: 6.89 min Scan# 479

Delta R.T. 0.02 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

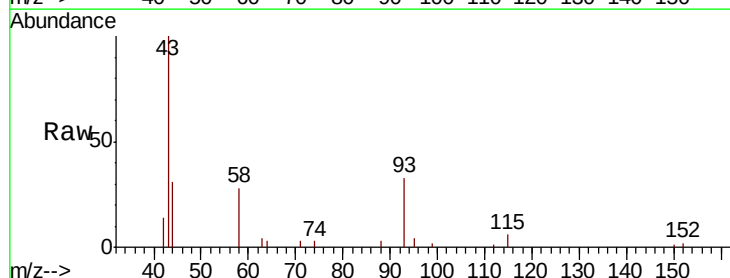
Tgt Ion: 93 Resp: 3008

Ion Ratio Lower Upper

93 100

63 6.7 55.6 83.4#

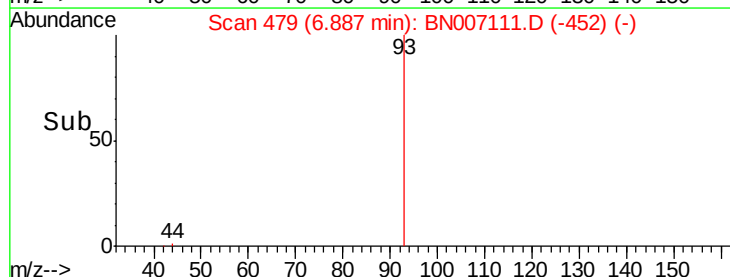
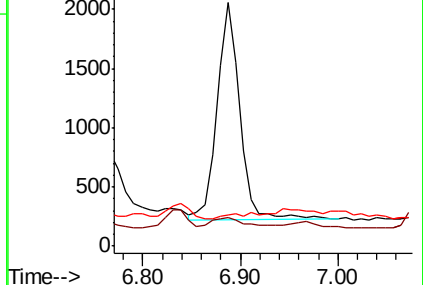
95 2.2 26.7 40.1#

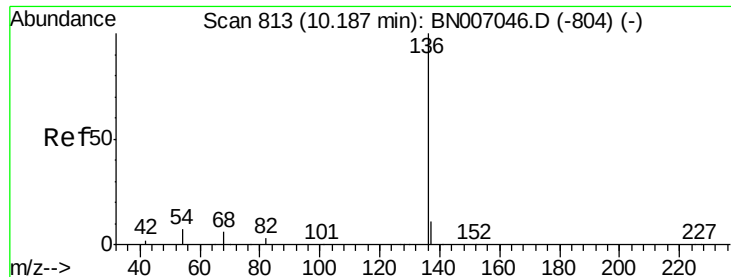


Abundance Ion 93.00 (92.70 to 93.70): BN007111.D (-452) (-)

Ion 63.00 (62.70 to 63.70): BN007111.D (-452) (-)

Ion 95.00 (94.70 to 95.70): BN007111.D (-452) (-)





#6

Naphthalene-d8

Concen: 0.400 ng

RT: 10.19 min Scan# 813

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

Tot Ion:136 Resp: 38387

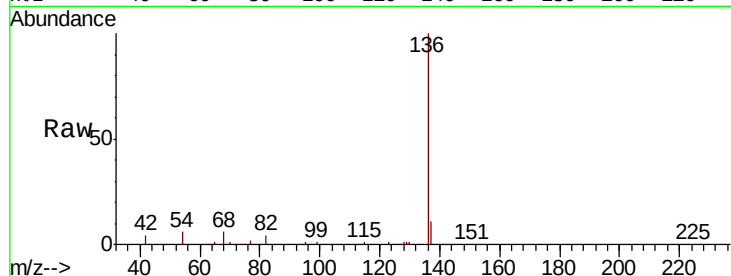
Ion Ratio Lower Upper

136 100

137 11.2 9.4 14.0

54 5.9 6.6 9.8#

68 5.6 6.0 9.0#

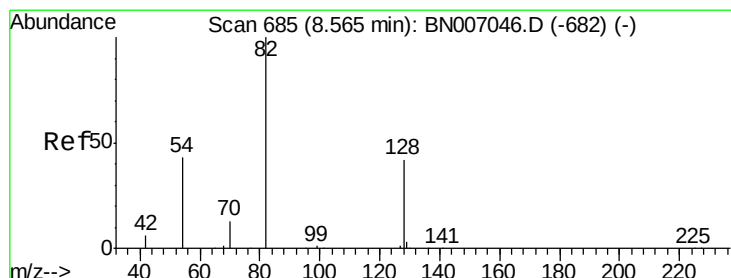
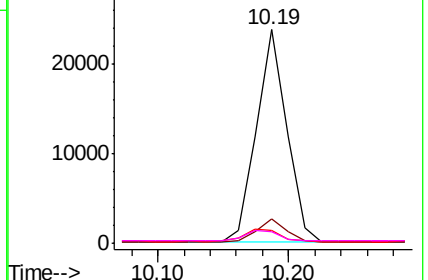
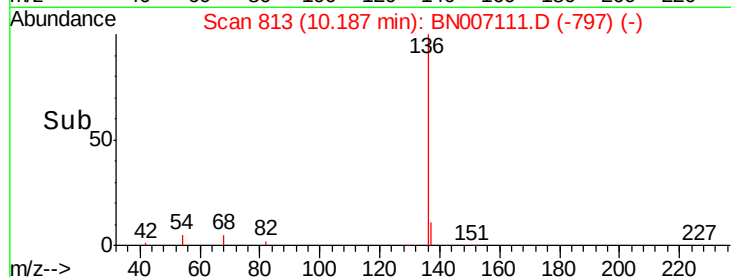


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.192 ng

RT: 8.56 min Scan# 685

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

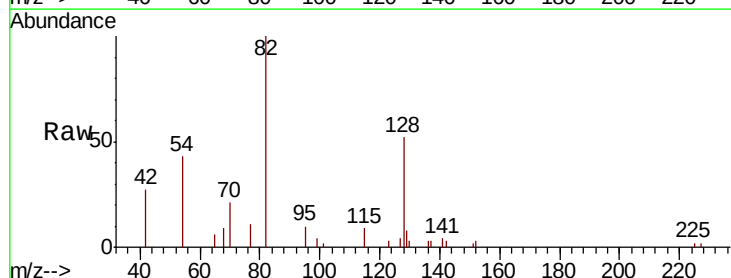
Tgt Ion: 82 Resp: 5951

Ion Ratio Lower Upper

82 100

128 51.7 34.6 51.8

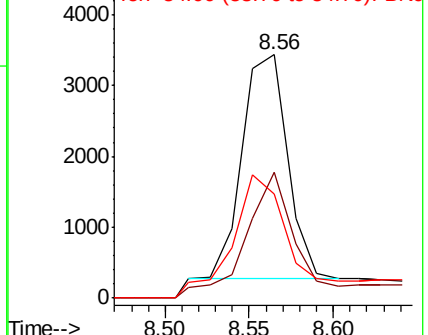
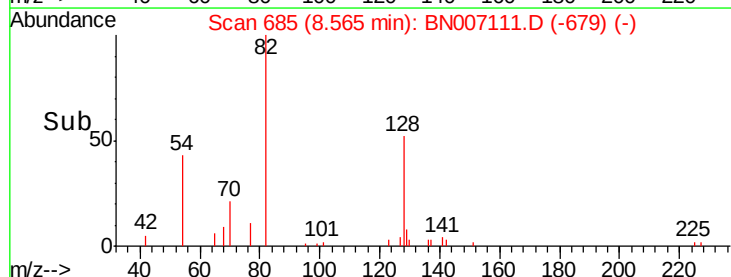
54 42.5 36.2 54.4

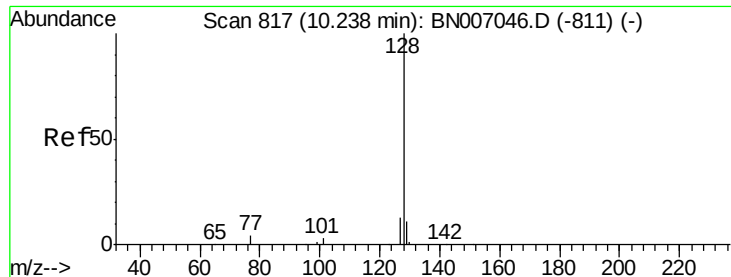


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC

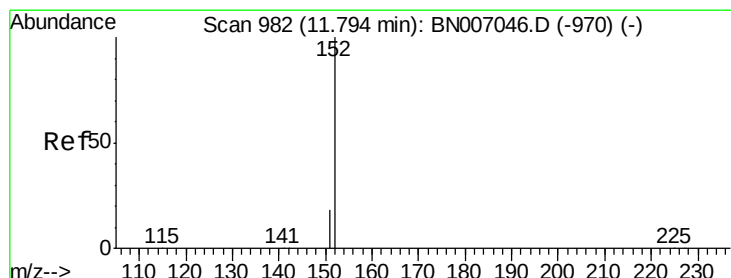
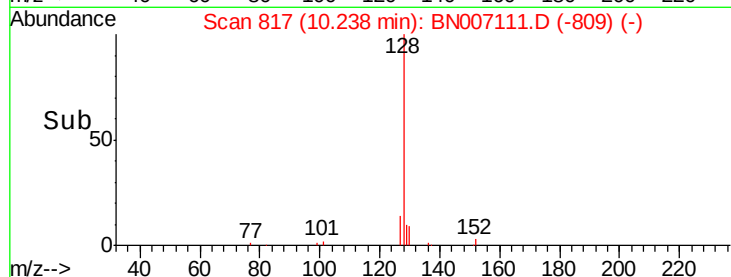
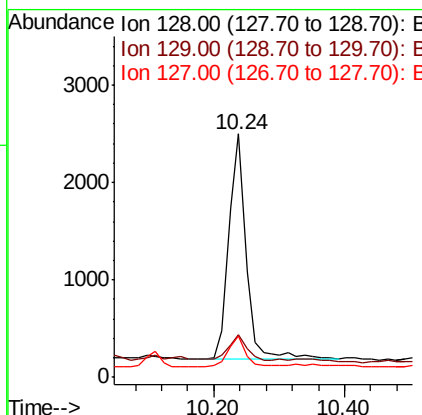
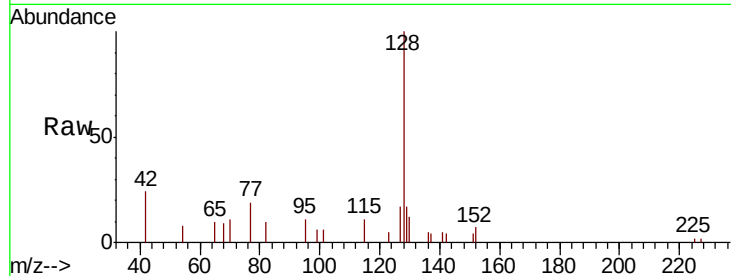




#8
Naphthalene
Concen: 0.040 ng
RT: 10.24 min Scan# 817
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

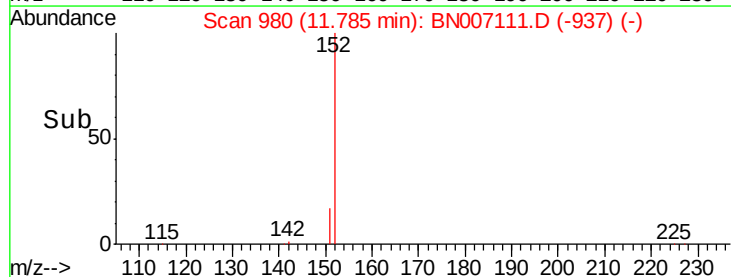
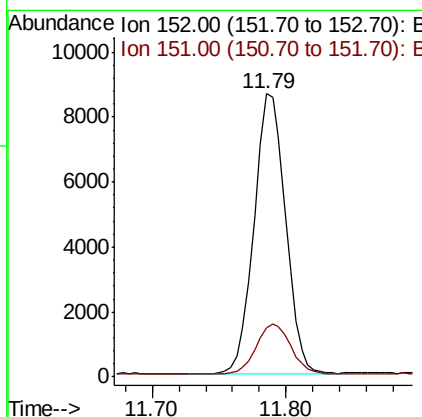
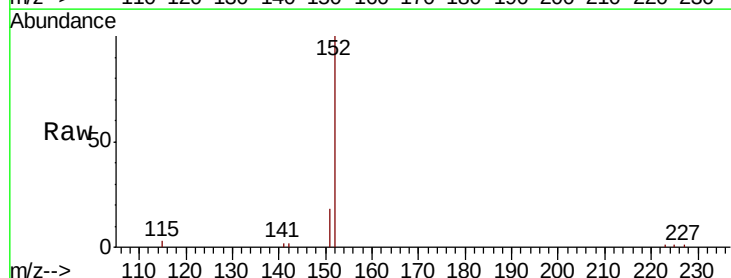
Instrument :
BNA_N
ClientSampleId :

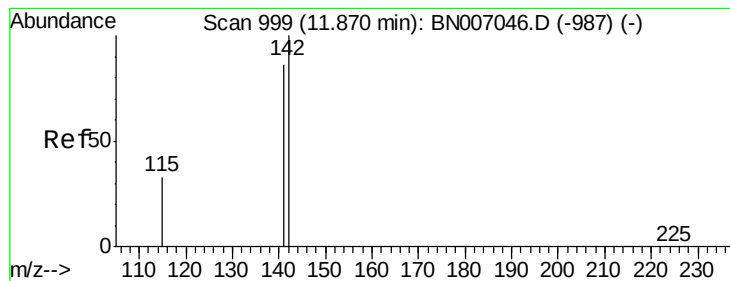
Tot Ion:128 Resp: 4311
Ion Ratio Lower Upper
128 100
129 17.5 9.4 14.2#
127 16.8 11.0 16.6#



#10
2-Methylnaphthalene-d10
Concen: 0.196 ng
RT: 11.79 min Scan# 980
Delta R.T. -0.01 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion:152 Resp: 14032
Ion Ratio Lower Upper
152 100
151 19.6 15.5 23.3





#11

2-Methylnaphthalene

Concen: 0.037 ng

RT: 11.87 min Scan# 998

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

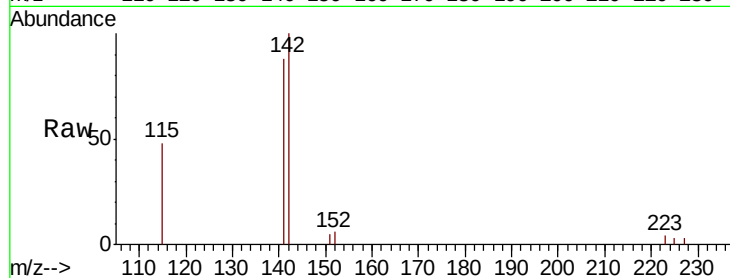
Tot Ion:142 Resp: 2845

Ion Ratio Lower Upper

142 100

141 88.2 69.0 103.6

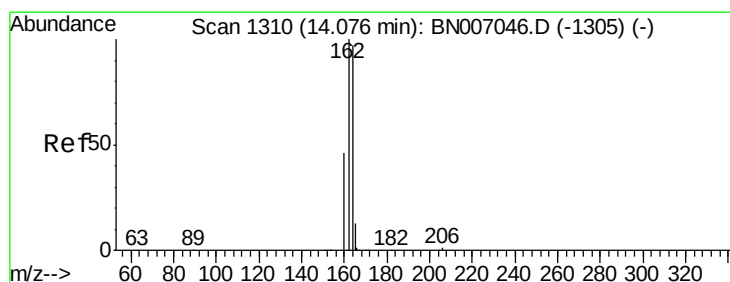
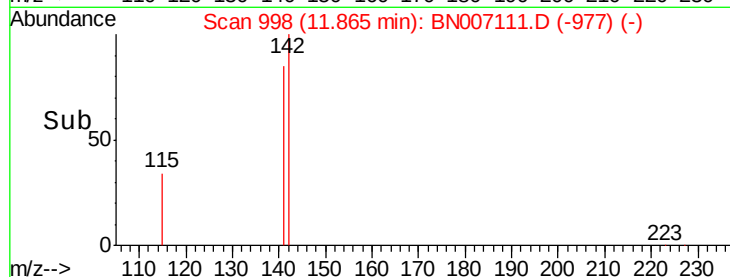
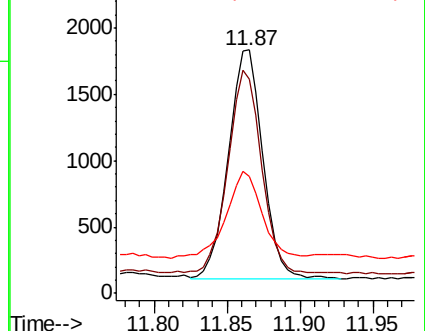
115 47.8 27.1 40.7#



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: BN007111.D

Acq: 13 Aug 2019 02:42

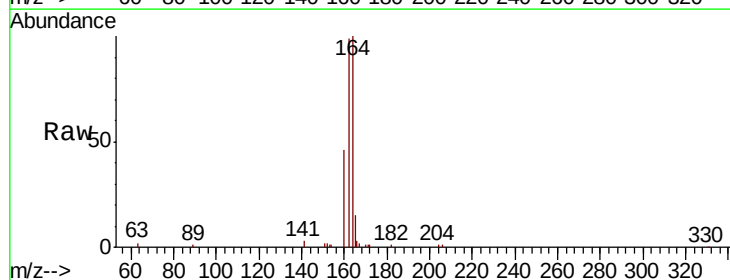
Tgt Ion:164 Resp: 22625

Ion Ratio Lower Upper

164 100

162 99.5 82.2 123.4

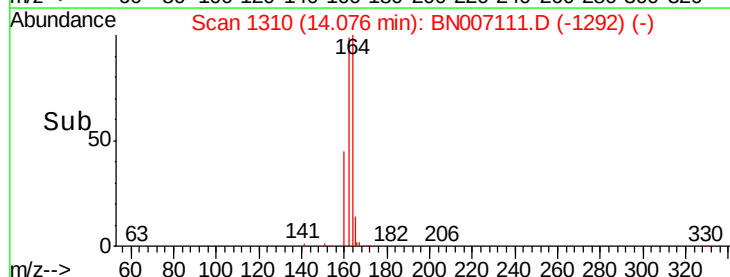
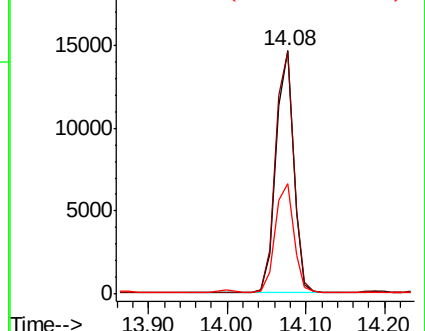
160 45.5 38.3 57.5

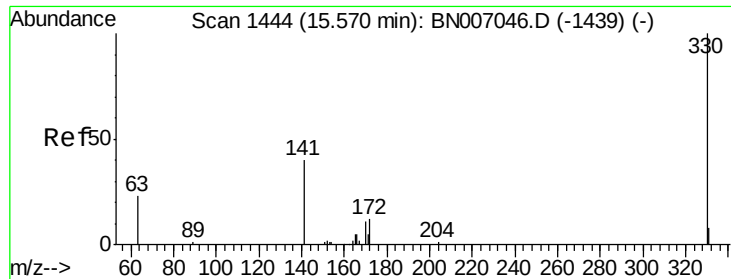


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

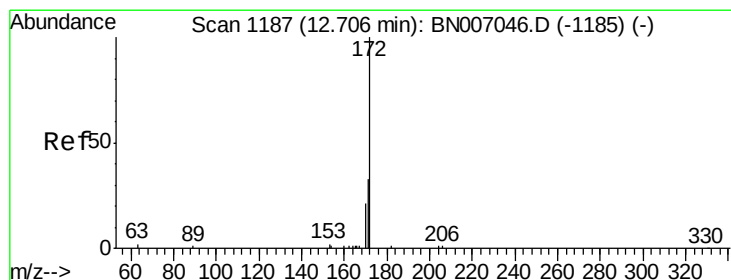
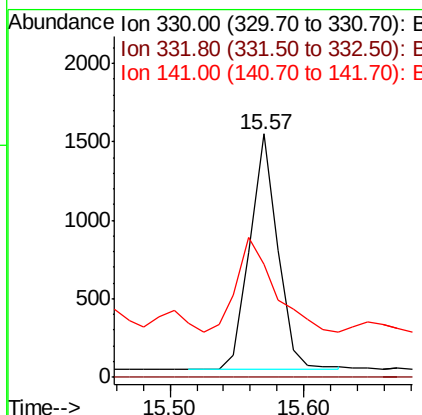
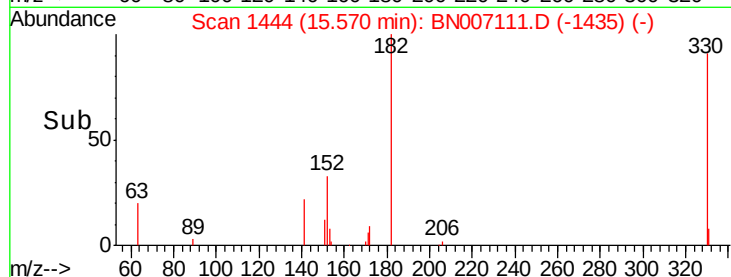
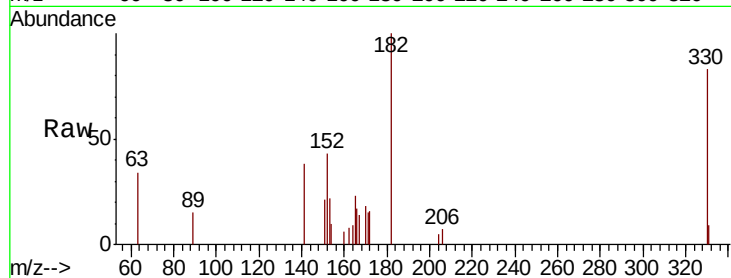




#13
 2,4,6-Tribromophenol
 Concen: 0.180 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

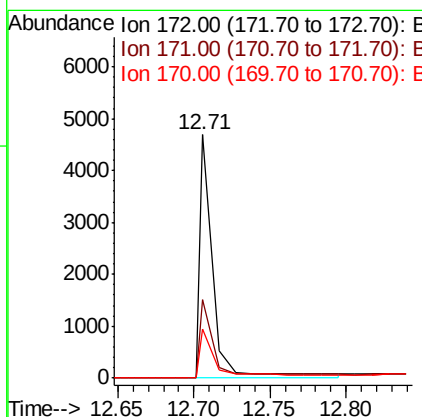
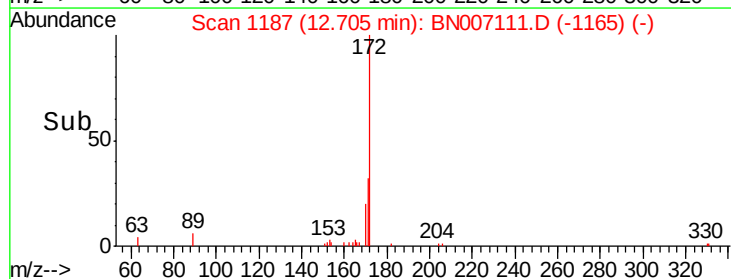
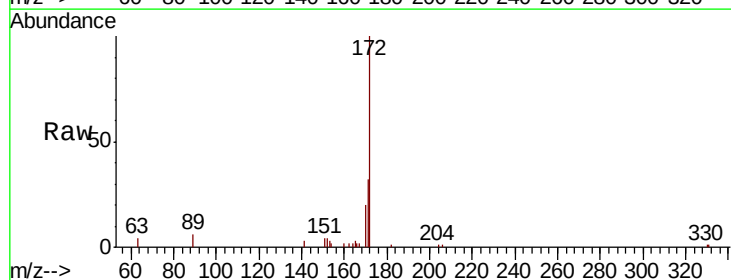
Instrument :
 BNA_N
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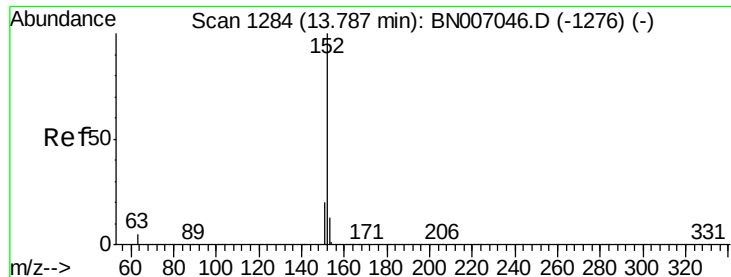
Tot Ion:330 Resp: 2197
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 53.3 33.6 50.4#



#14
 2-Fluorobiphenyl
 Concen: 0.104 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007111.D
 Acq: 13 Aug 2019 02:42

Tgt Ion:172 Resp: 3411
 Ion Ratio Lower Upper
 172 100
 171 32.2 26.3 39.5
 170 20.2 17.0 25.4

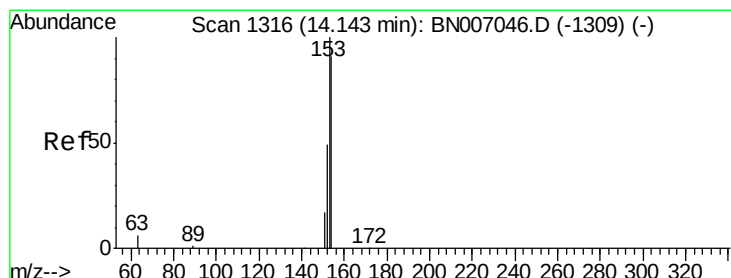
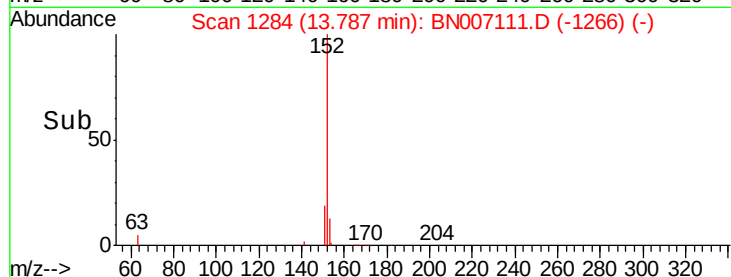
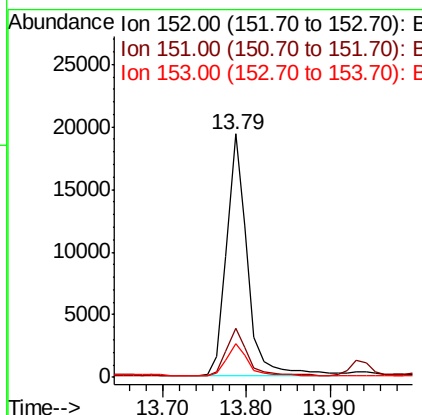
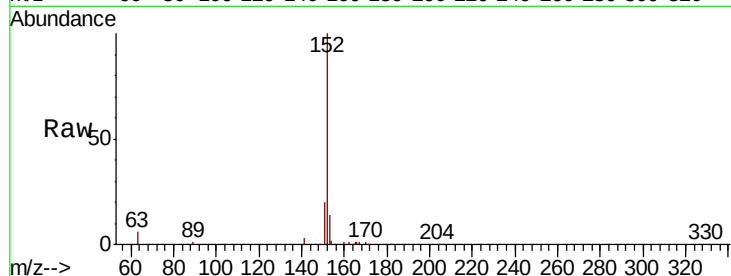




#15
Acenaphthylene
Concen: 0.279 ng
RT: 13.79 min Scan# 1284
Delta R.T. -0.00 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

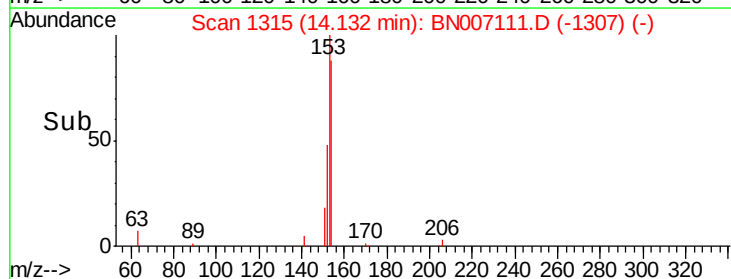
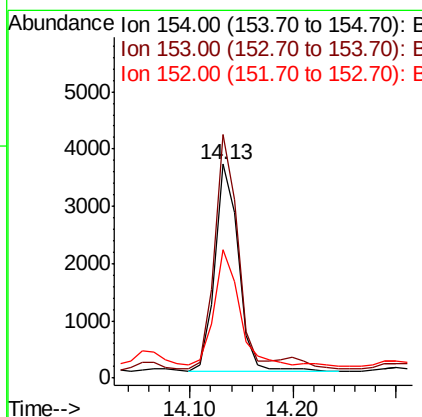
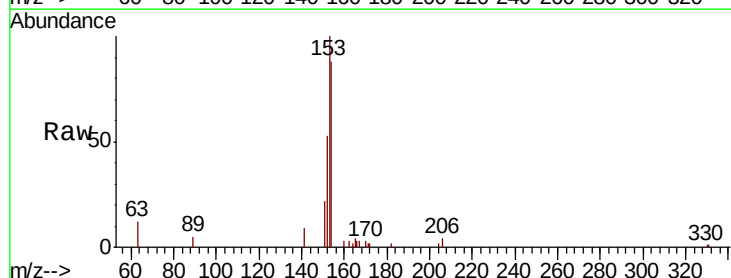
Instrument :
BNA_N
ClientSampleId :

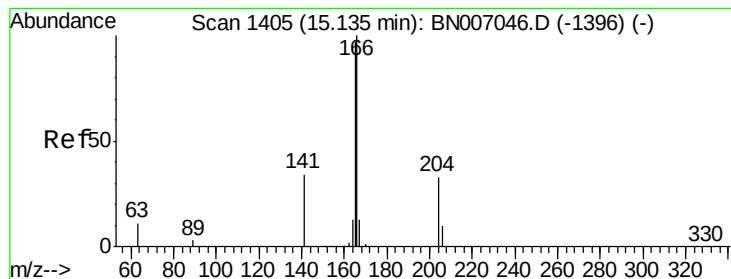
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.8	23.6
153	13.2	10.4	15.6



#16
Acenaphthene
Concen: 0.076 ng
RT: 14.13 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion	Ratio	Lower	Upper
154	100		
153	109.9	89.5	134.3
152	61.9	44.8	67.2





#17

Fluorene

Concen: 0.091 ng

RT: 15.14 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

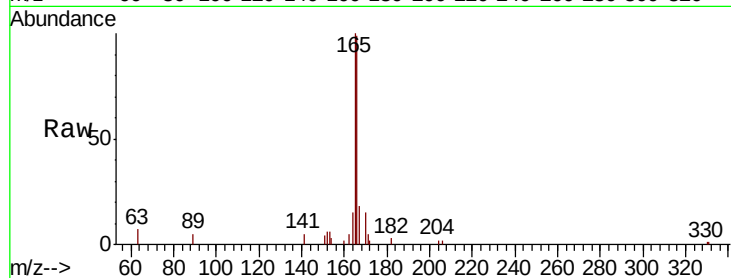
Tot Ion:166 Resp: 10281

Ion Ratio Lower Upper

166 100

165 106.6 77.9 116.9

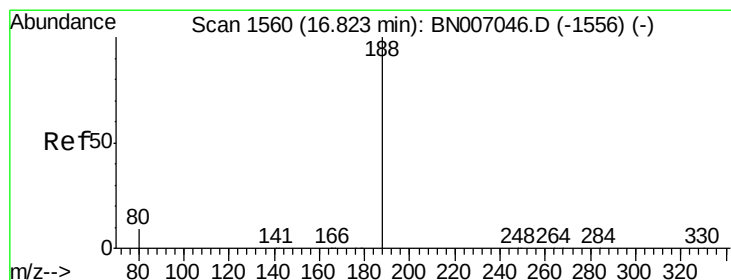
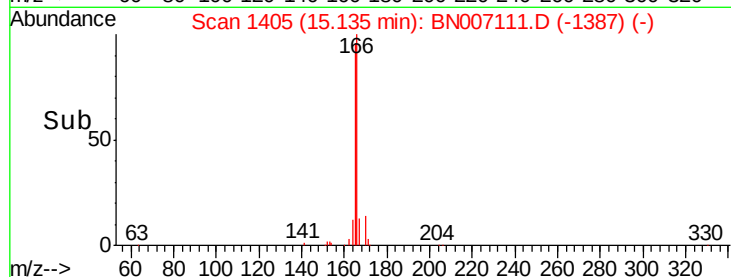
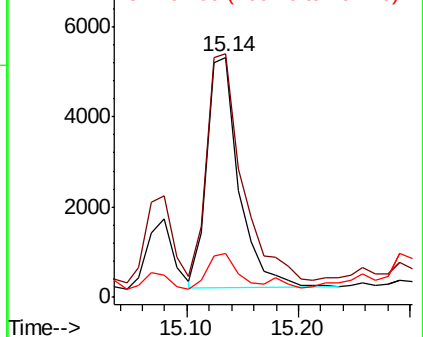
167 15.1 10.9 16.3



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#18

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.82 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

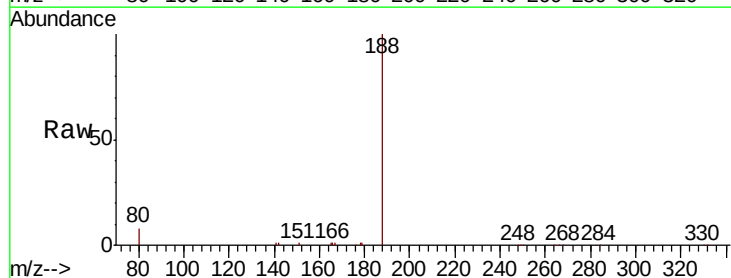
Tgt Ion:188 Resp: 53519

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

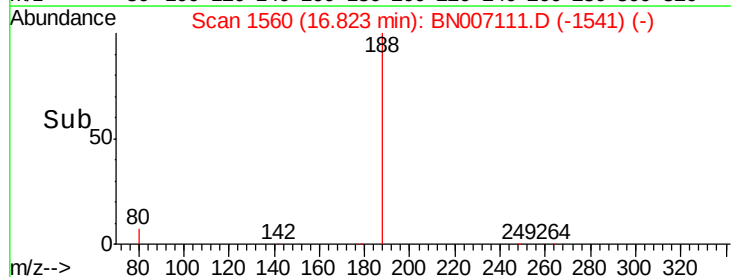
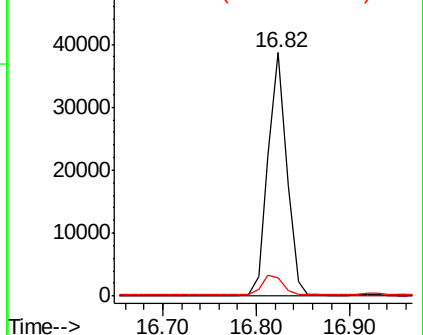
80 7.5 7.8 11.6#

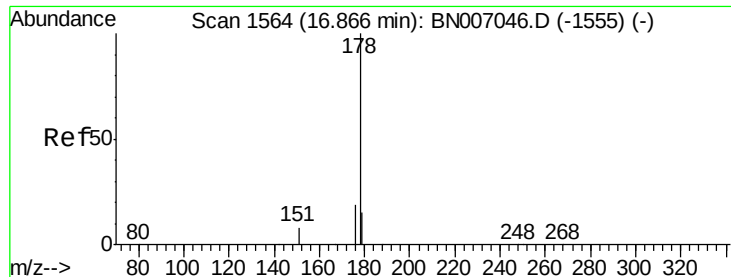


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Phenanthrene

Concen: 1.577 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

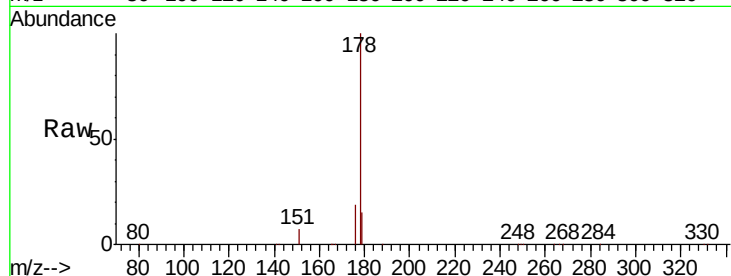
Tot Ion:178 Resp: 252944

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

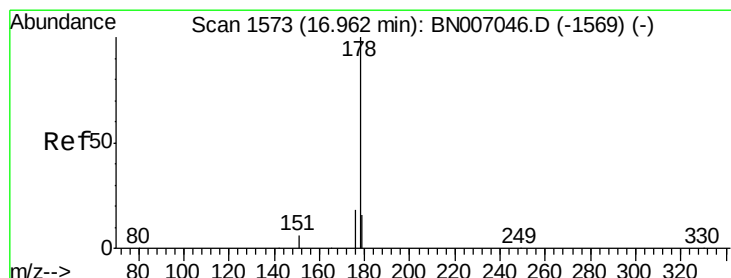
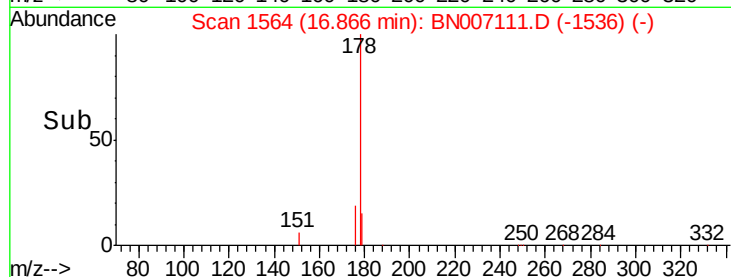
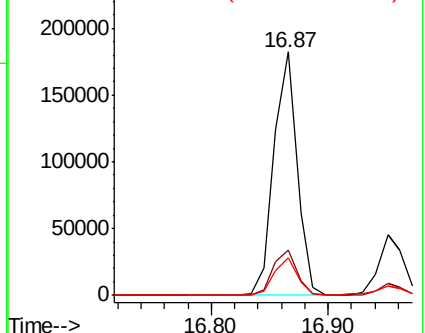
179 15.4 12.3 18.5



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: 0.444 ng

RT: 16.95 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

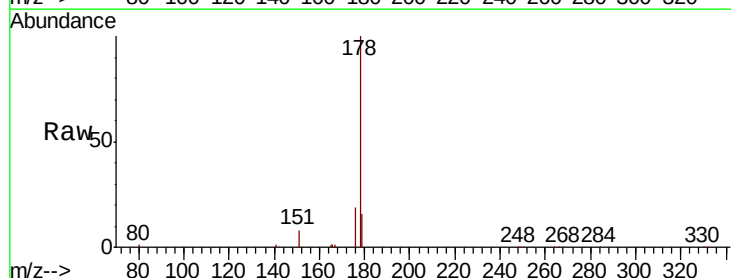
Tgt Ion:178 Resp: 65123

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

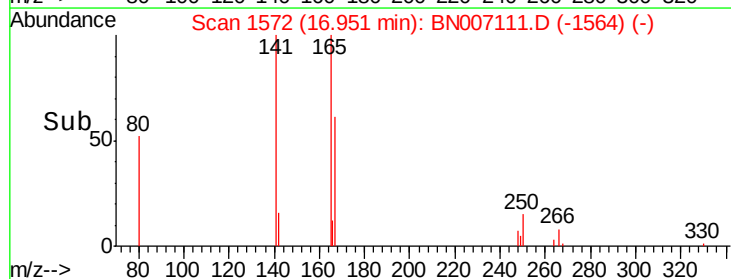
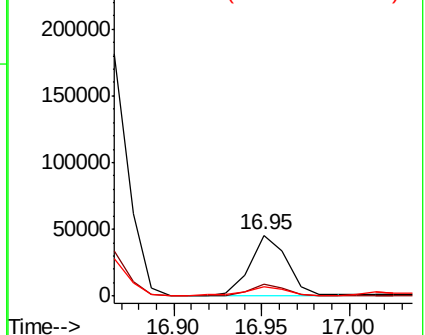
179 17.1 12.5 18.7

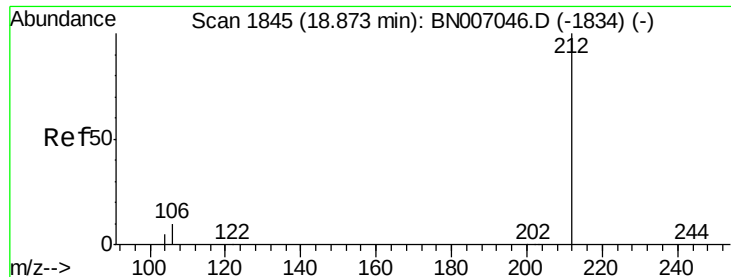


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene-d10

Concen: 0.189 ng

RT: 18.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

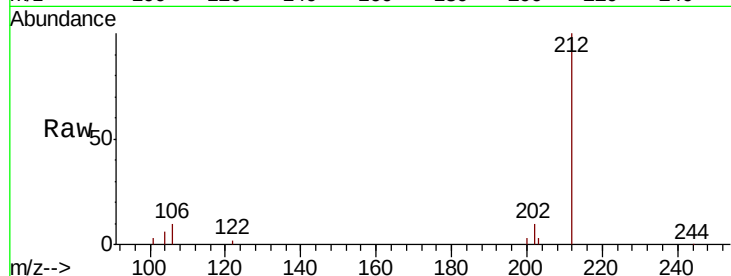
Tot Ion:212 Resp: 35857

Ion Ratio Lower Upper

212 100

106 10.4 8.2 12.2

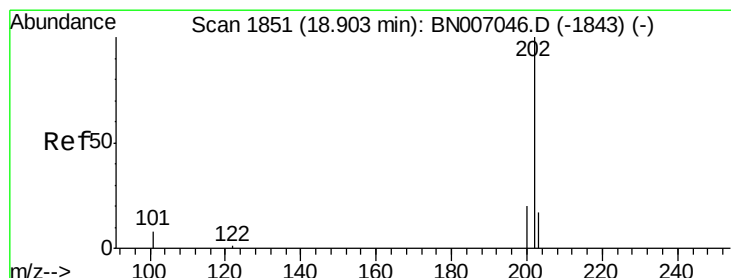
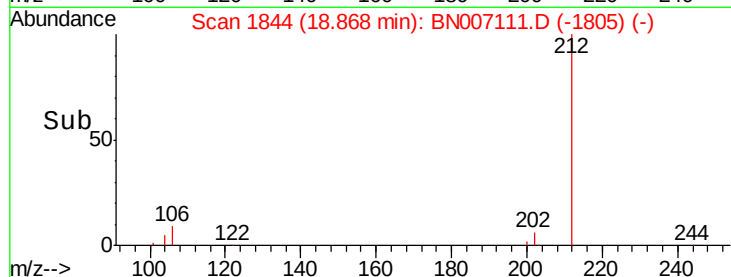
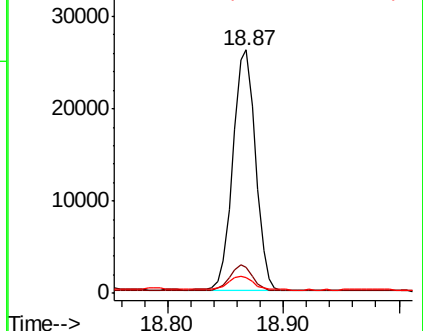
104 6.3 4.5 6.7



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: 2.758 ng

RT: 18.90 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

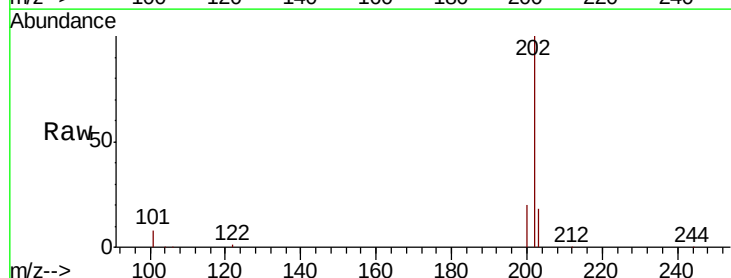
Tgt Ion:202 Resp: 565898

Ion Ratio Lower Upper

202 100

101 8.7 7.0 10.4

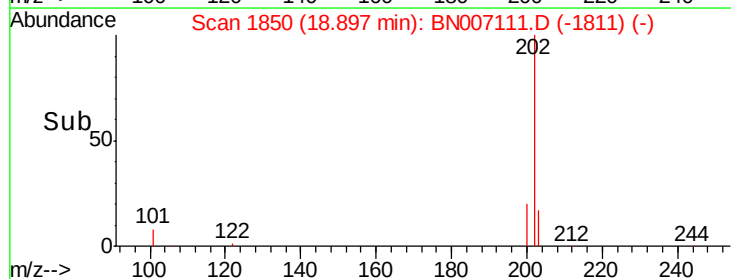
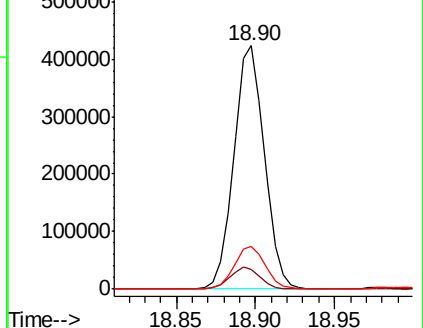
203 17.5 13.8 20.8

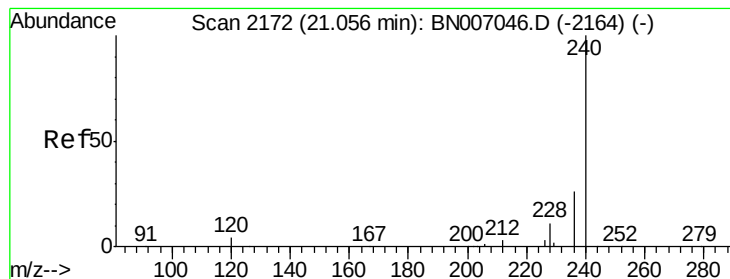


Abundance Ion 202.00 (201.70 to 202.70): E

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: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

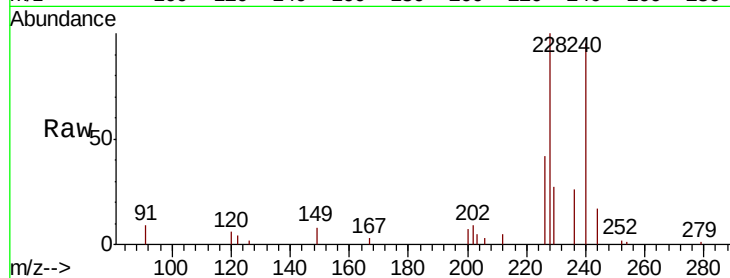
Tot Ion:240 Resp: 52331

Ion Ratio Lower Upper

240 100

120 6.3 4.0 6.0#

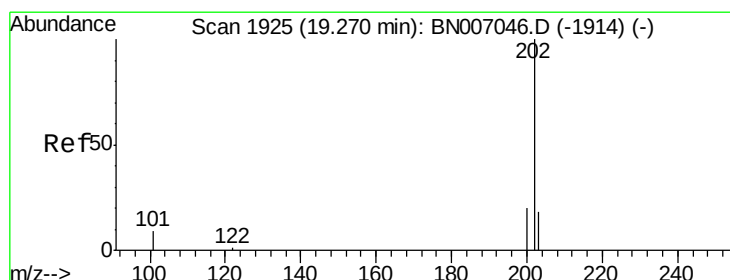
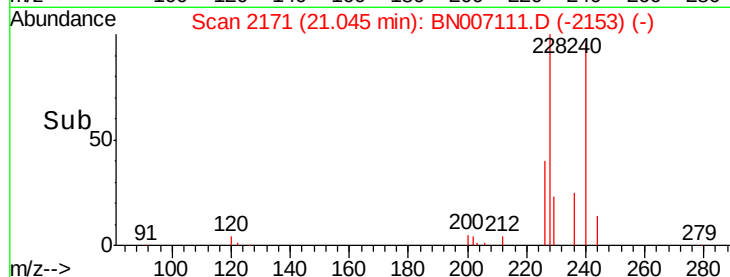
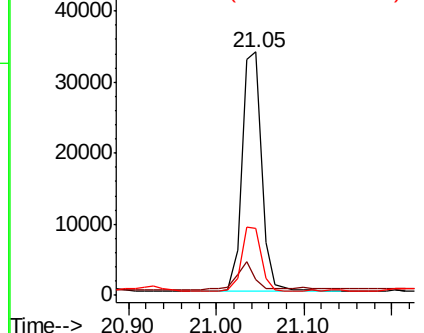
236 27.5 21.3 31.9



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: 2.660 ng

RT: 19.26 min Scan# 1923

Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

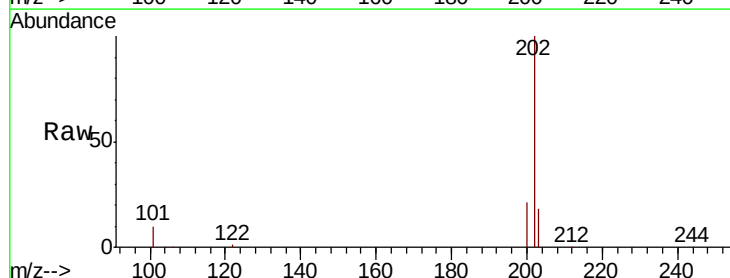
Tgt Ion:202 Resp: 488077

Ion Ratio Lower Upper

202 100

200 21.0 16.6 24.8

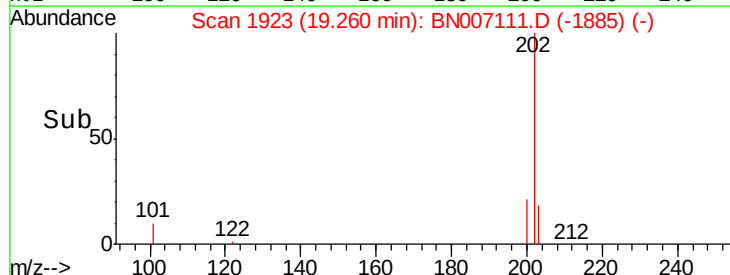
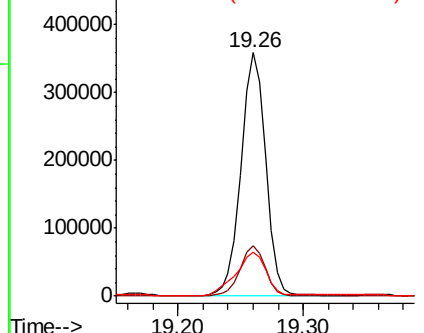
203 21.7 14.0 21.0#

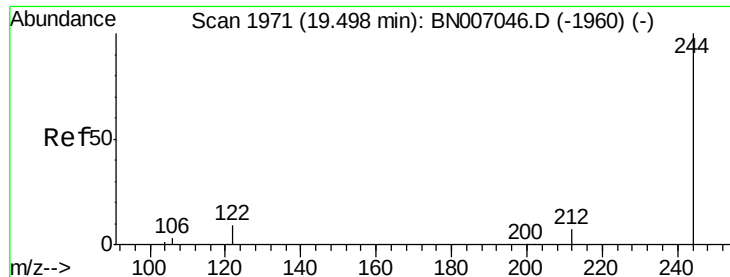


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.191 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

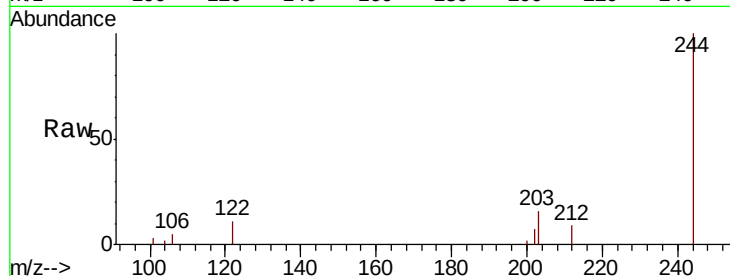
Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

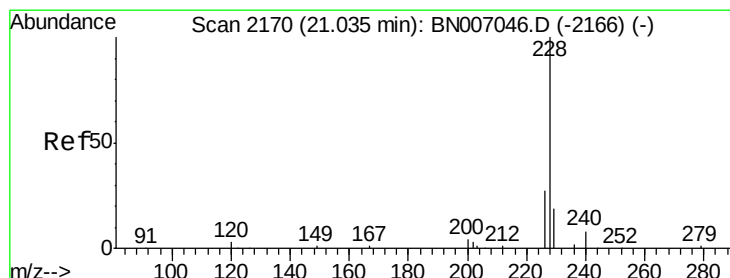
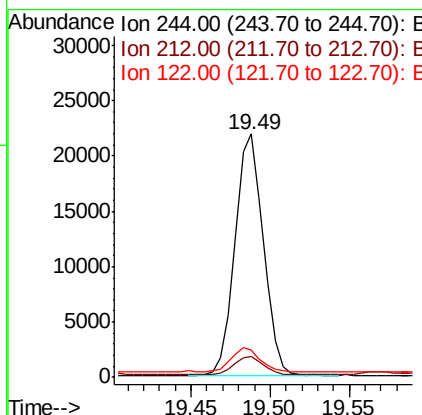
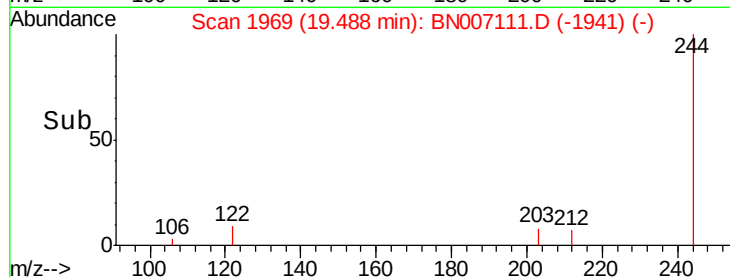
Instrument :

BNA_N

ClientSampled :



Tot Ion:	244	Resp:	27191
Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.2	9.2
122	11.3	7.4	11.2#



#29

Benzo(a)anthracene

Concen: 1.542 ng

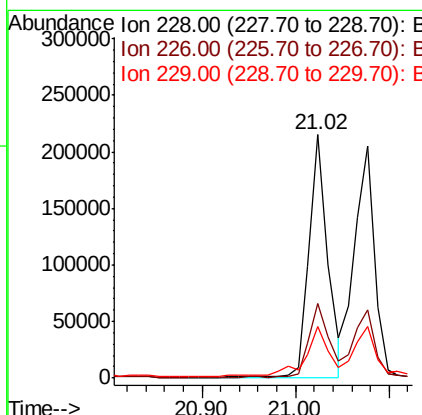
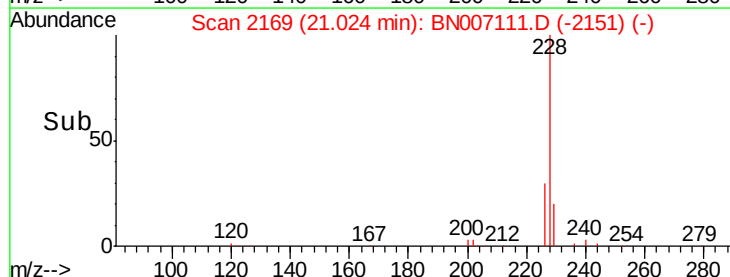
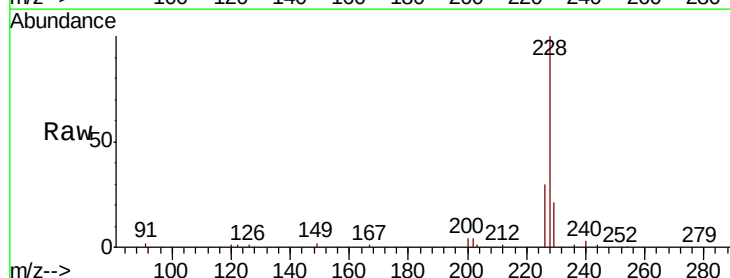
RT: 21.02 min Scan# 2169

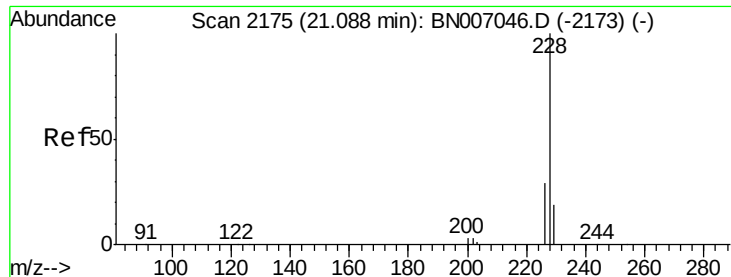
Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Tgt Ion:	228	Resp:	295082
Ion	Ratio	Lower	Upper
228	100		
226	30.4	21.8	32.6
229	21.1	15.6	23.4





#30

Chrysene

Concen: 1.625 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

Instrument :

BNA_N

ClientSampleId :

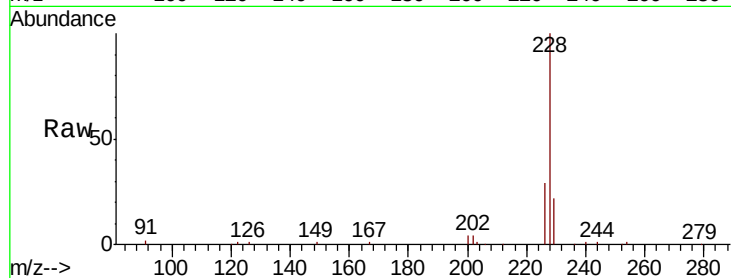
Tot Ion:228 Resp: 302229

Ion Ratio Lower Upper

228 100

226 29.3 23.8 35.6

229 22.2 15.7 23.5

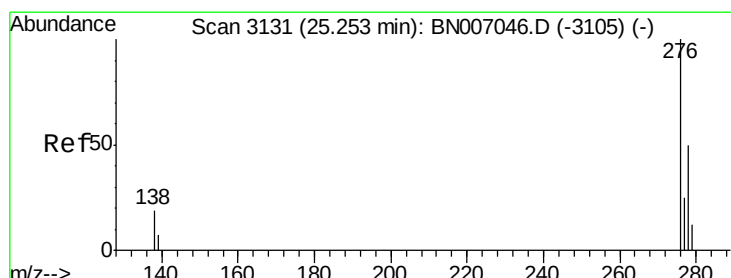
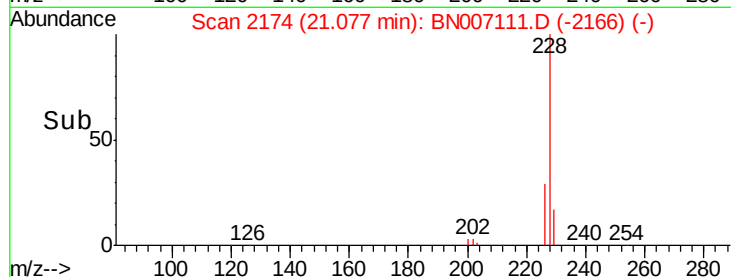
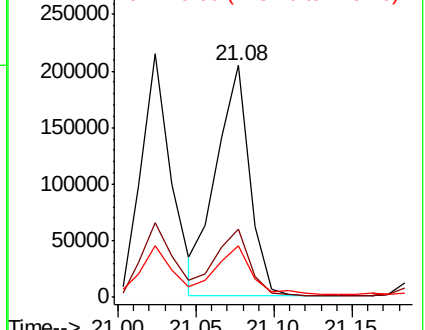


Abundance

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: 0.963 ng

RT: 25.23 min Scan# 3124

Delta R.T. -0.02 min

Lab File: BN007111.D

Acq: 13 Aug 2019 02:42

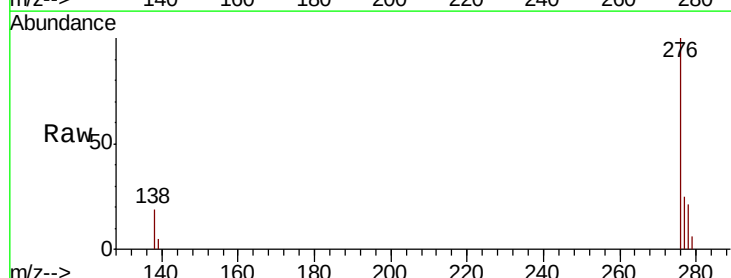
Tgt Ion:276 Resp: 197368

Ion Ratio Lower Upper

276 100

138 19.0 16.0 24.0

277 24.3 19.9 29.9

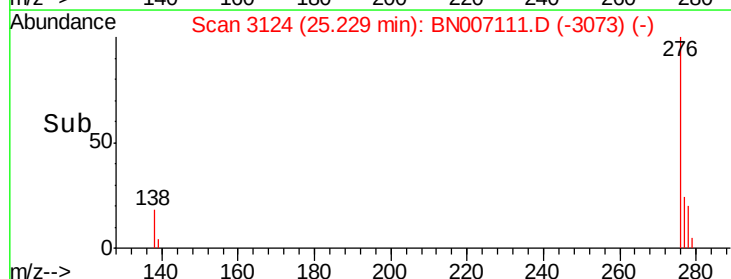
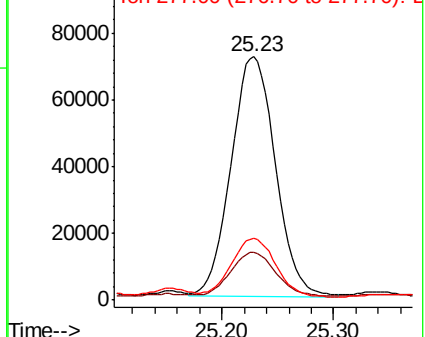


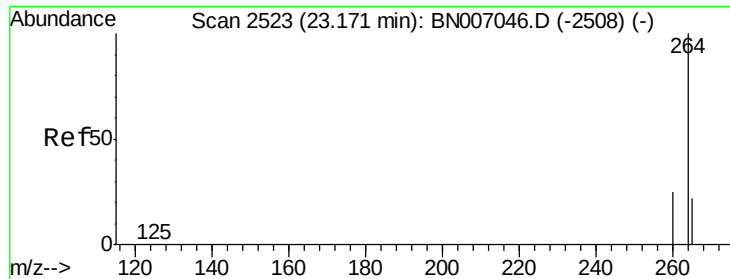
Abundance

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



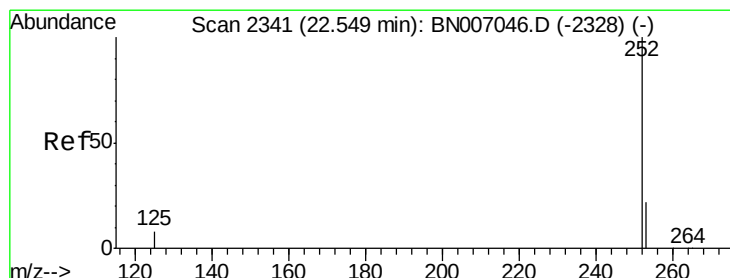
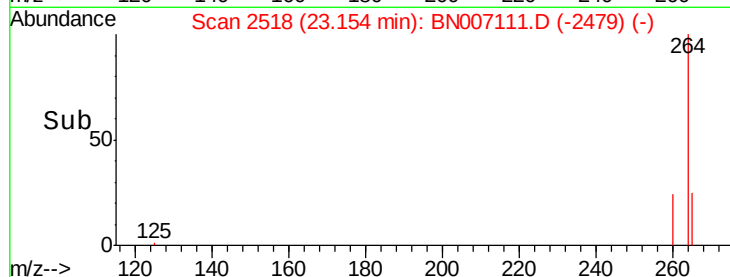
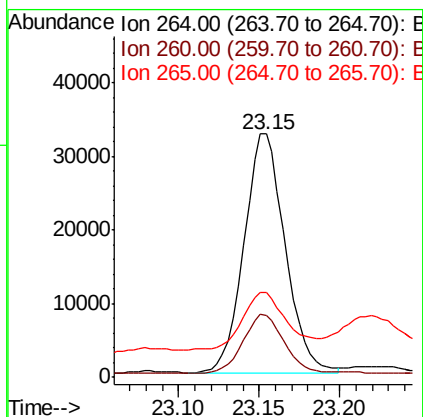
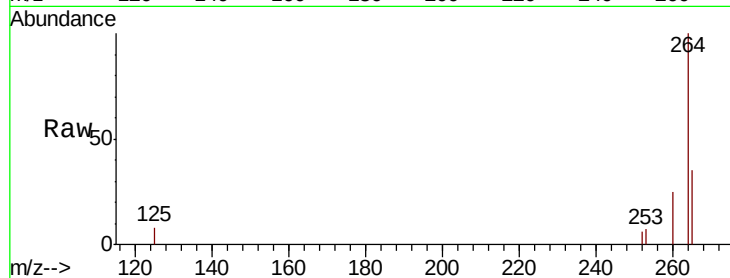


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.15 min Scan# 2518
Delta R.T. -0.02 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:264 Resp: 57268

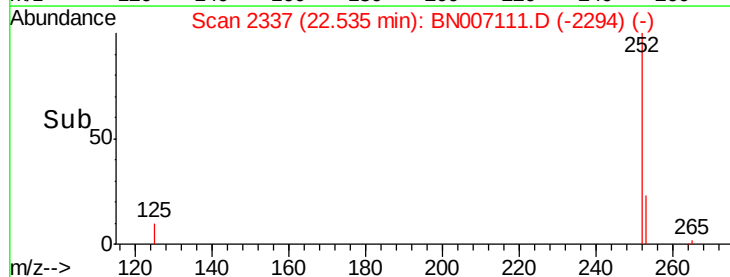
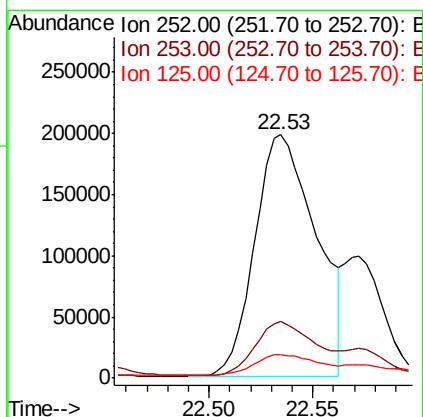
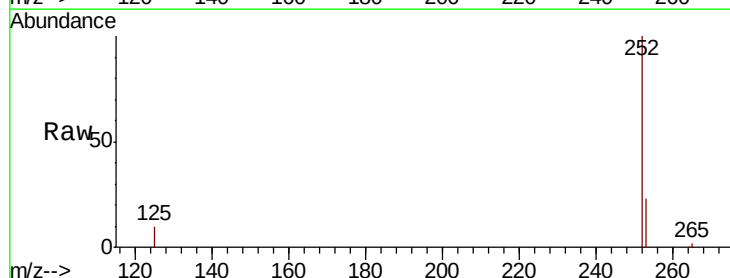
Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.8	29.8
265	34.6	26.2	39.4

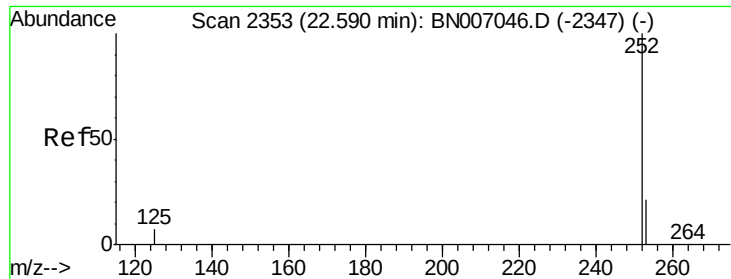


#33
Benzo(b)fluoranthene
Concen: 2.070 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.01 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion:252 Resp: 406468

Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	9.6	7.4	11.0

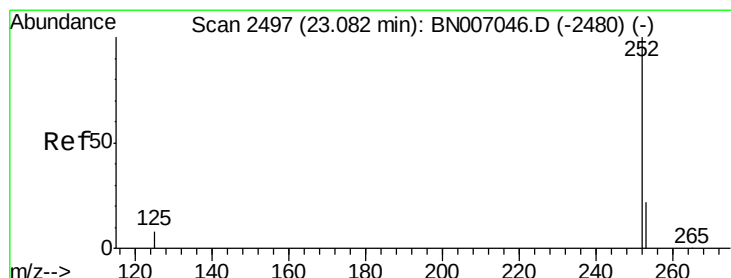
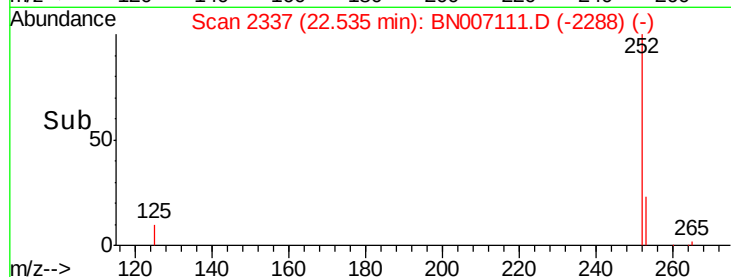
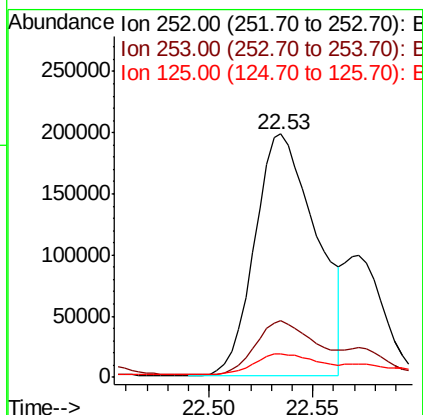
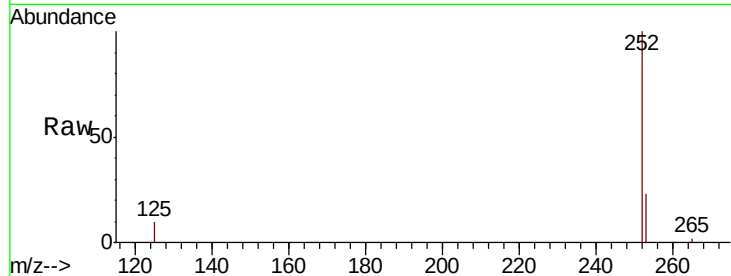




#34
Benzo(k)fluoranthene
Concen: 2.096 ng
RT: 22.53 min Scan# 2337
Delta R.T. -0.05 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

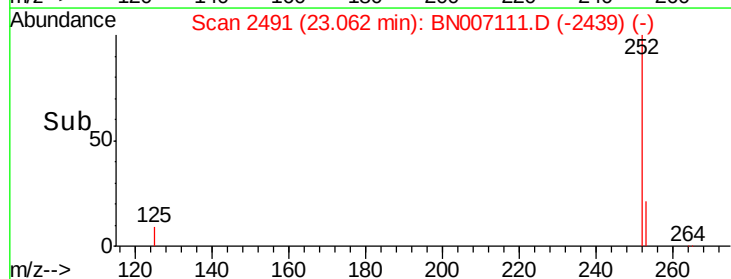
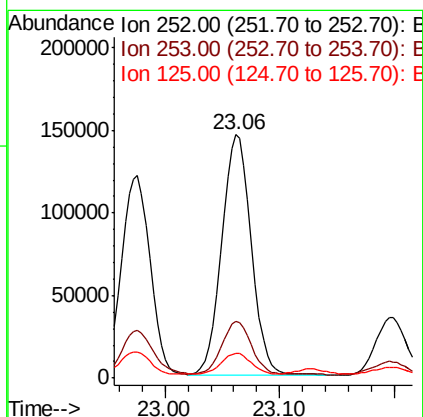
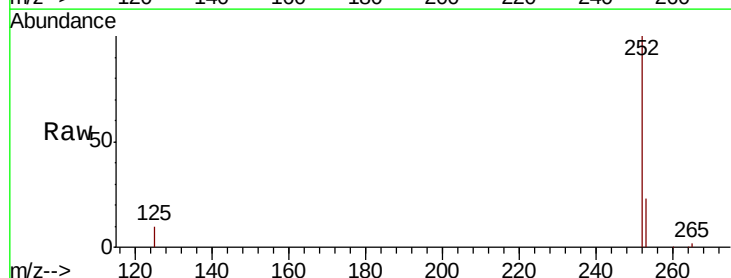
Instrument :
BNA_N
ClientSampleId :

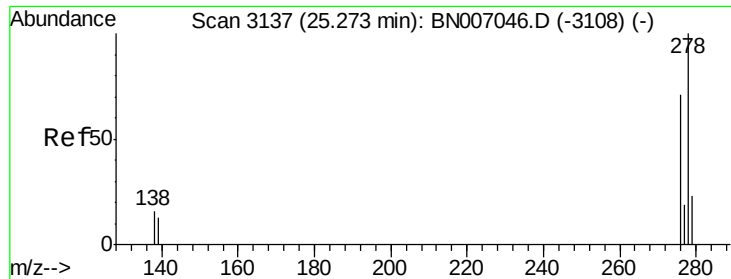
Tot Ion:252 Resp: 406468
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 9.6 7.4 11.0



#35
Benzo(a)pyrene
Concen: 1.487 ng
RT: 23.06 min Scan# 2491
Delta R.T. -0.02 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion:252 Resp: 264768
Ion Ratio Lower Upper
252 100
253 23.1 18.5 27.7
125 10.2 8.2 12.4



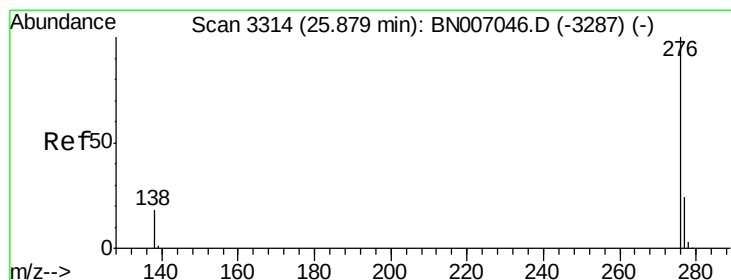
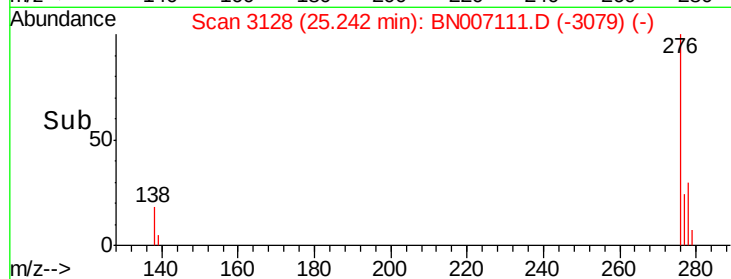
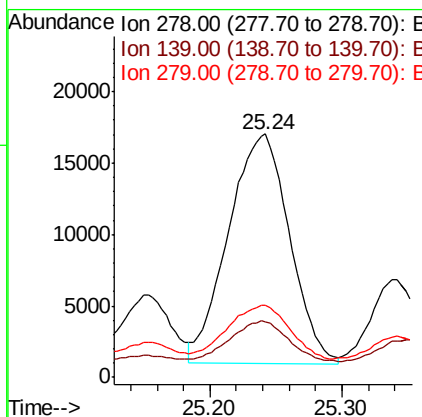
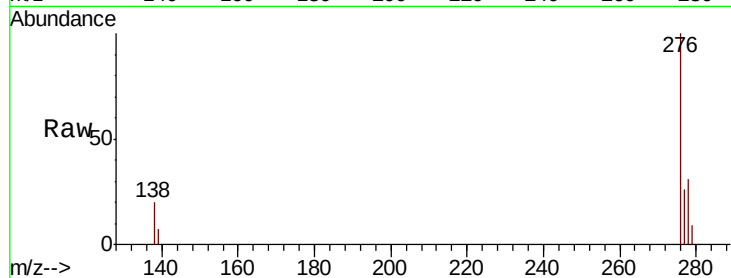


#36
Dibenzo(a,h)anthracene
Concen: 0.291 ng
RT: 25.24 min Scan# 3128
Delta R.T. -0.03 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 51673

Ion	Ratio	Lower	Upper
278	100		
139	22.7	11.3	16.9#
279	29.6	19.3	28.9#



#37
Benzo(g,h,i)perylene
Concen: 1.111 ng
RT: 25.85 min Scan# 3306
Delta R.T. -0.03 min
Lab File: BN007111.D
Acq: 13 Aug 2019 02:42

Tgt Ion:276 Resp: 202948

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.8	29.8
138	19.4	14.6	22.0

