

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN081419\
 Data File : BN007175.D
 Acq On : 14 Aug 2019 22:17
 Operator : HP/JU
 Sample : K4282-04
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Aug 15 11:04:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN081019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 13 12:12:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	7947	0.40	ng	0.00
6) Naphthalene-d8	10.19	136	28959	0.40	ng	0.00
12) Acenaphthene-d10	14.08	164	15961	0.40	ng	0.00
18) Phenanthrene-d10	16.82	188	35891	0.40	ng	0.00
26) Chrysene-d12	21.05	240	36306	0.40	ng	-0.01
32) Perylene-d12	23.16	264	40443	0.40	ng	-0.01

System Monitoring Compounds						
3) 2-Fluorophenol	5.06	112	5444	0.29	ng	0.00
4) Phenol-d6	6.61	99	7035	0.30	ng	0.00
7) Nitrobenzene-d5	8.55	82	5824	0.25	ng	-0.01
10) 2-Methylnaphthalene-d10	11.79	152	12580	0.23	ng	0.00
13) 2,4,6-Tribromophenol	15.57	330	1918	0.22	ng	0.00
14) 2-Fluorobiphenyl	12.71	172	1921	0.08	ng	0.00
24) Fluoranthene-d10	18.87	212	26996	0.21	ng	0.00
28) Terphenyl-d14	19.49	244	20599	0.21	ng	-0.01

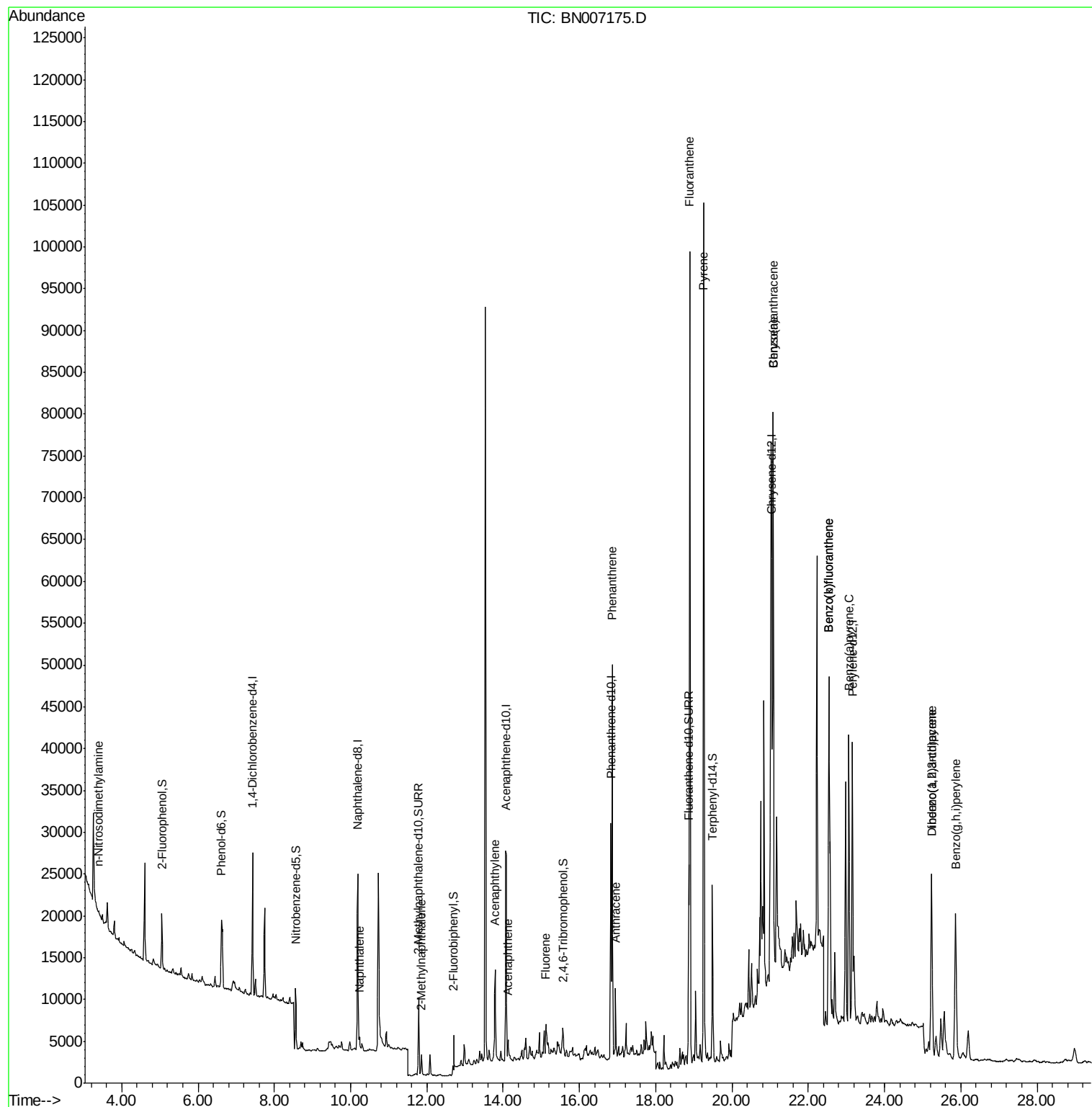
Target Compounds				Qvalue		
2) n-Nitrosodimethylamine	3.40	42	129	0.025	ng	# 1
8) Naphthalene	10.24	128	2361	0.029	ng	# 82
11) 2-Methylnaphthalene	11.86	142	1985	0.035	ng	# 87
15) Acenaphthylene	13.79	152	17274	0.207	ng	100
16) Acenaphthene	14.13	154	1588	0.030	ng	# 81
17) Fluorene	15.12	166	3493	0.044	ng	# 74
22) Phenanthrene	16.87	178	50359	0.468	ng	99
23) Anthracene	16.95	178	8732	0.089	ng	# 92
25) Fluoranthene	18.90	202	89059	0.647	ng	100
27) Pylene	19.26	202	94140	0.739	ng	# 96
29) Benzo(a)anthracene	21.08	228	59865	0.451	ng	92
30) Chrysene	21.08	228	59504	0.461	ng	95
31) Indeno(1,2,3-cd)pyrene	25.23	276	33529	0.236	ng	98
33) Benzo(b)fluoranthene	22.54	252	68748	0.496	ng	# 94
34) Benzo(k)fluoranthene	22.54	252	68748	0.502	ng	# 94
35) Benzo(a)pyrene	23.07	252	46434	0.369	ng	# 94
36) Dibenzo(a,h)anthracene	25.25	278	8971	0.072	ng	# 61
37) Benzo(a,h,i)perylene	25.86	276	35013	0.271	ng	94

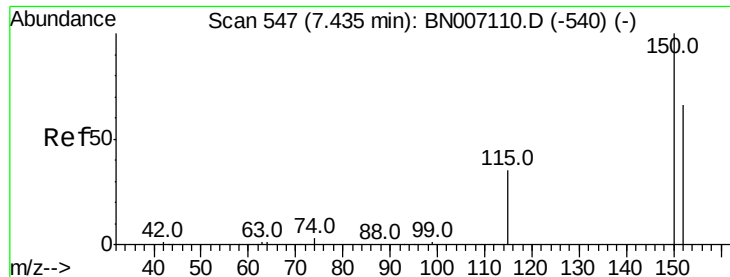
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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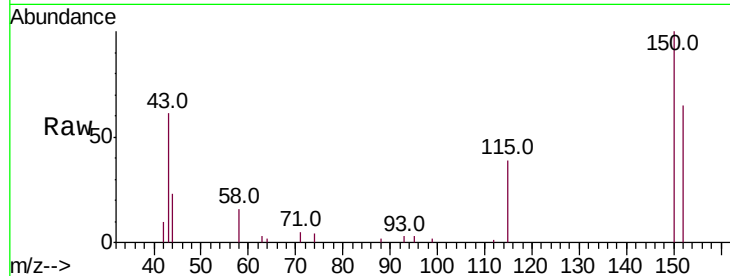


#1

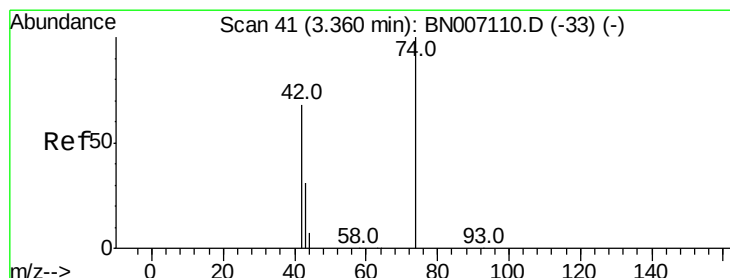
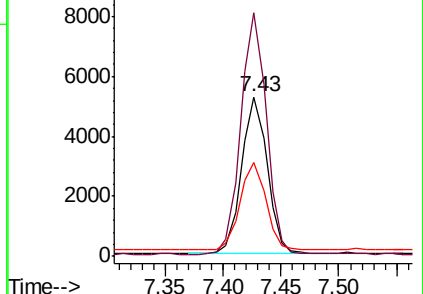
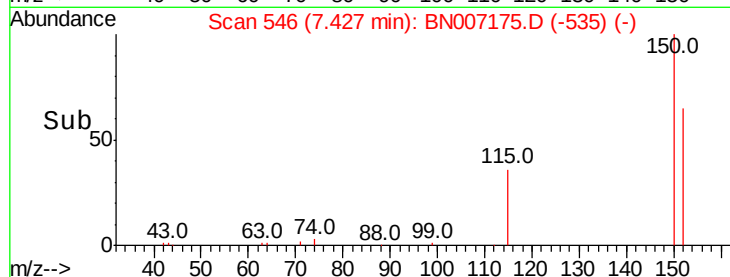
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.43 min Scan# 546
Delta R.T. -0.01 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Instrument :
BNA_N
ClientSampled :

Tot Ion:152 Resp: 7947
Ion Ratio Lower Upper
152 100
150 153.0 121.7 182.5
115 59.3 46.2 69.4



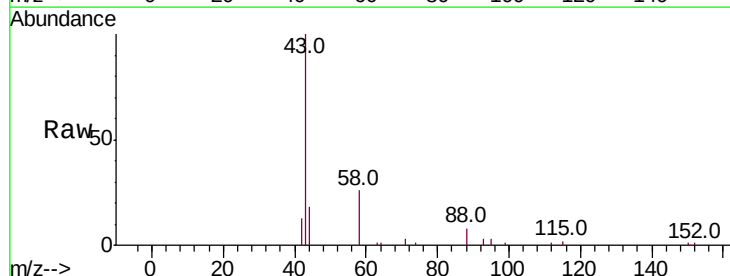
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



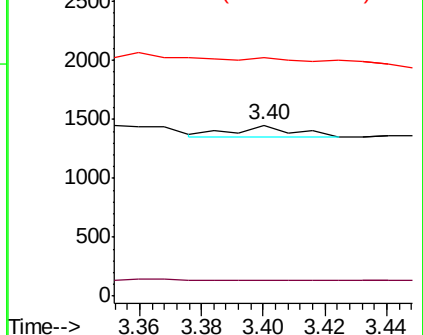
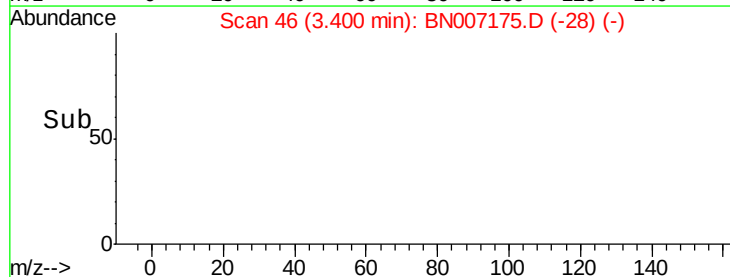
#2

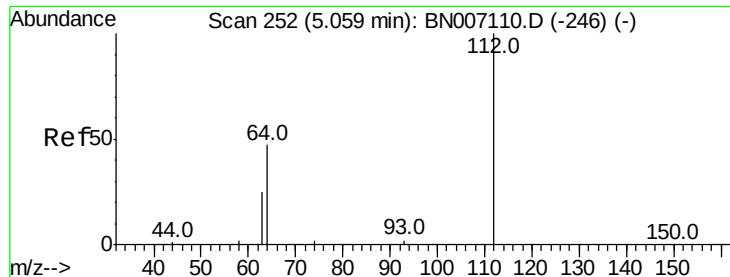
n-Nitrosodimethylamine
Concen: 0.025 ng
RT: 3.40 min Scan# 46
Delta R.T. 0.04 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Tgt Ion: 42 Resp: 129
Ion Ratio Lower Upper
42 100
74 1.6 110.6 166.0#
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: 0.285 ng

RT: 5.06 min Scan# 252

Delta R.T. -0.00 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

Instrument :

BNA_N

ClientSampleId :

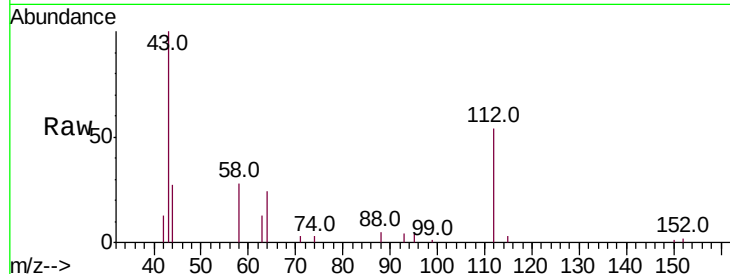
Tot Ion:112 Resp: 5444

Ion Ratio Lower Upper

112 100

64 51.5 42.6 63.8

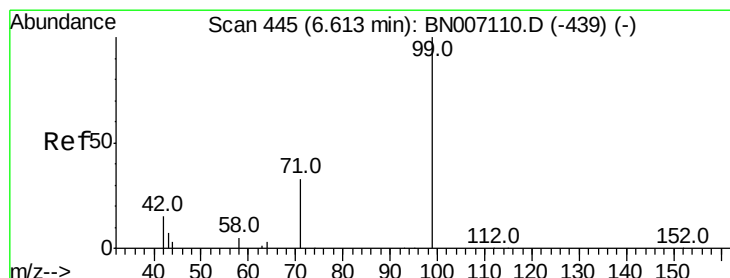
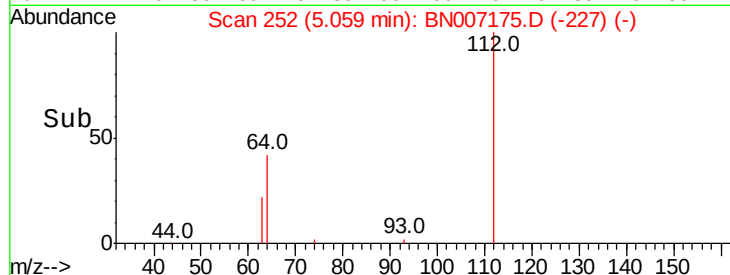
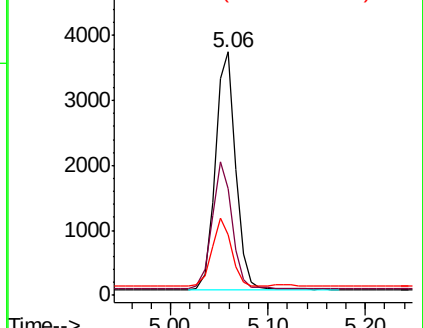
63 26.9 22.2 33.2



Abundance Ion 112.00 (111.70 to 112.70): BNC

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC



#4

Phenol-d6

Concen: 0.297 ng

RT: 6.61 min Scan# 445

Delta R.T. -0.00 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

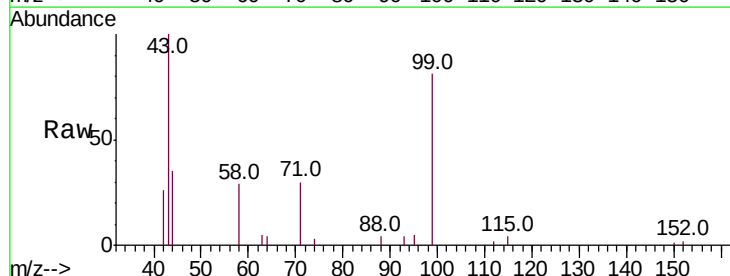
Tgt Ion: 99 Resp: 7035

Ion Ratio Lower Upper

99 100

42 27.8 15.8 23.6#

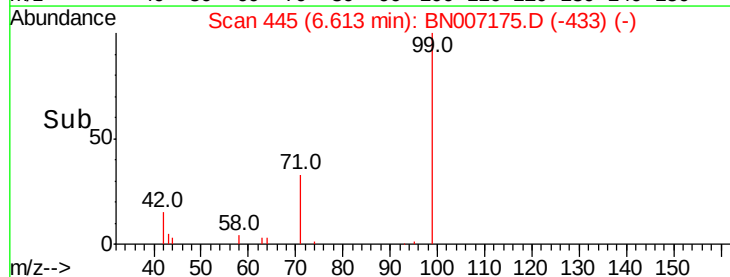
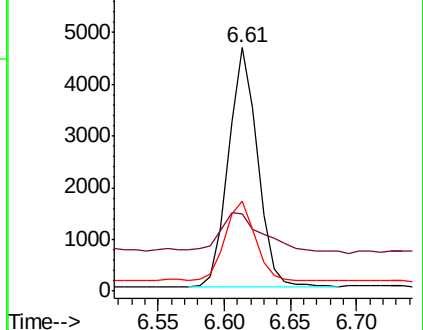
71 34.3 27.0 40.4

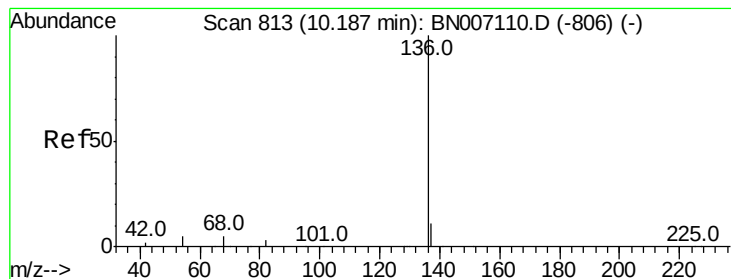


Abundance Ion 99.00 (98.70 to 99.70): BNC

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: BN007175.D

Acq: 14 Aug 2019 22:17

Instrument :

BNA_N

ClientSampleId :

Tot Ion:136 Resp: 28959

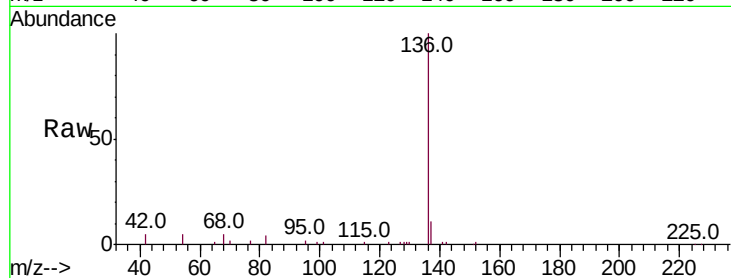
Ion Ratio Lower Upper

136 100

137 11.5 9.4 14.0

54 5.1 6.6 9.8#

68 4.8 6.0 9.0#



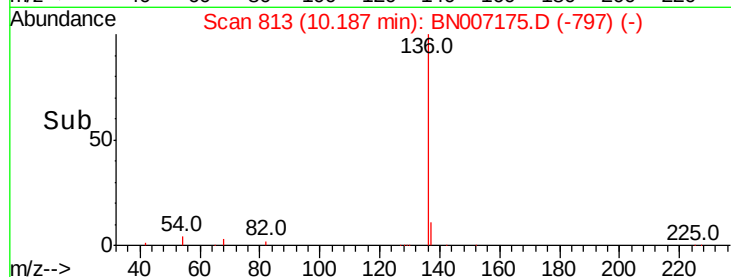
Abundance

Ion 136.00 (135.70 to 136.70): E

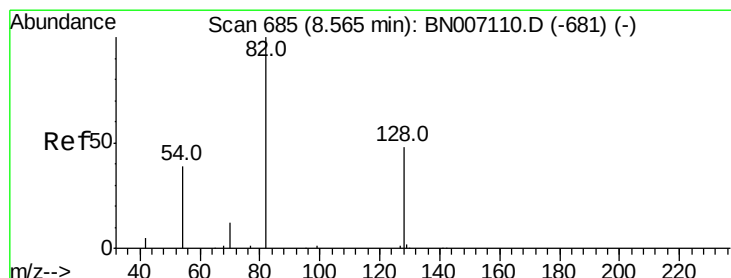
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



Time-->



#7

Nitrobenzene-d5

Concen: 0.249 ng

RT: 8.55 min Scan# 684

Delta R.T. -0.01 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

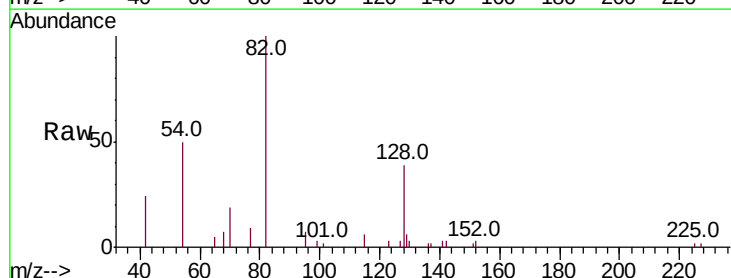
Tgt Ion: 82 Resp: 5824

Ion Ratio Lower Upper

82 100

128 39.3 34.6 51.8

54 49.8 36.2 54.4

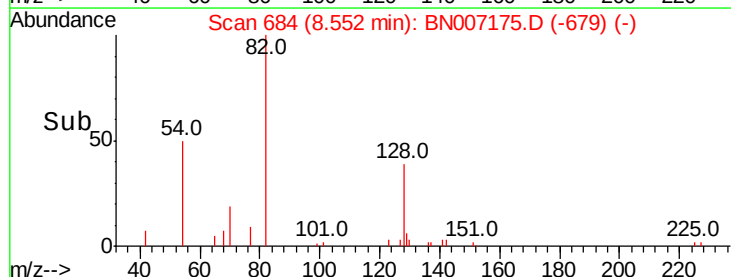


Abundance

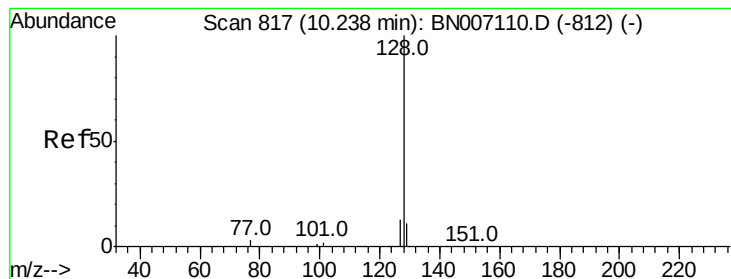
Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC



Time-->



#8

Naphthalene

Concen: 0.029 ng

RT: 10.24 min Scan# 817

Delta R.T. -0.00 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

Instrument :

BNA_N

ClientSampleId :

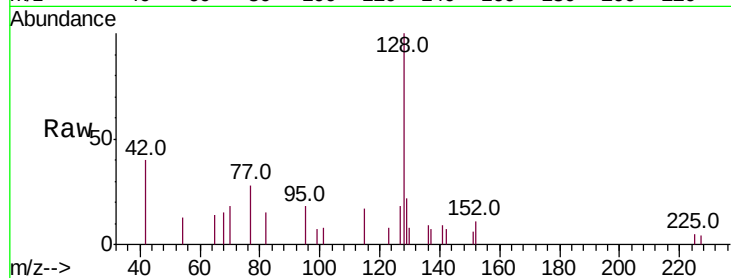
Tot Ion:128 Resp: 2361

Ion Ratio Lower Upper

128 100

129 22.0 9.4 14.2#

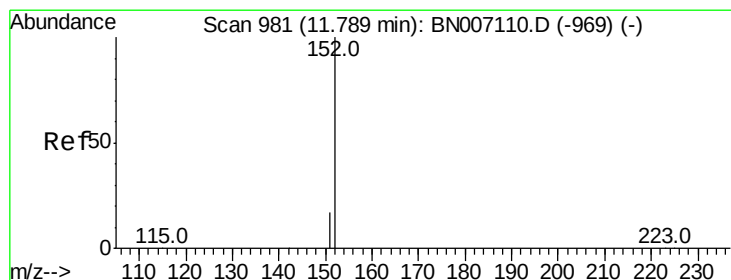
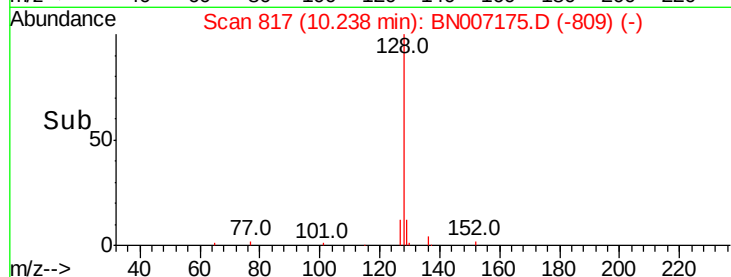
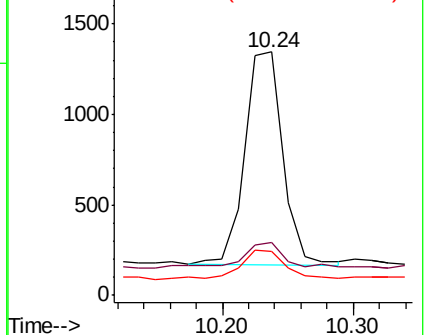
127 18.1 11.0 16.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

2-Methylnaphthalene-d10

Concen: 0.233 ng

RT: 11.79 min Scan# 980

Delta R.T. -0.01 min

Lab File: BN007175.D

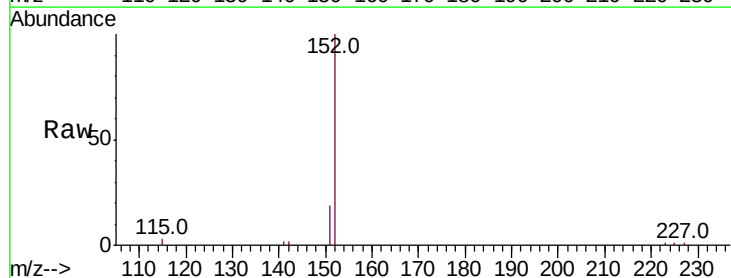
Acq: 14 Aug 2019 22:17

Tgt Ion:152 Resp: 12580

Ion Ratio Lower Upper

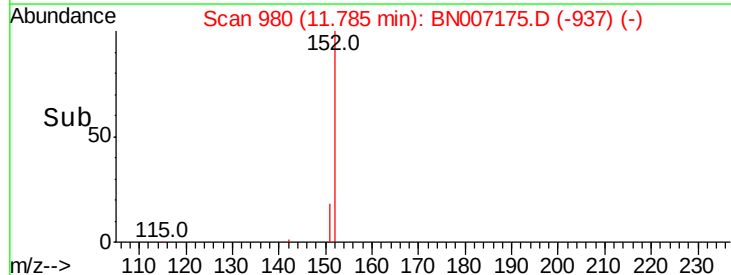
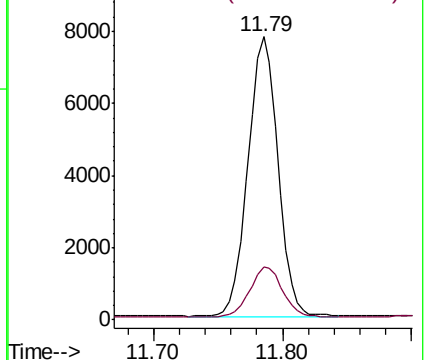
152 100

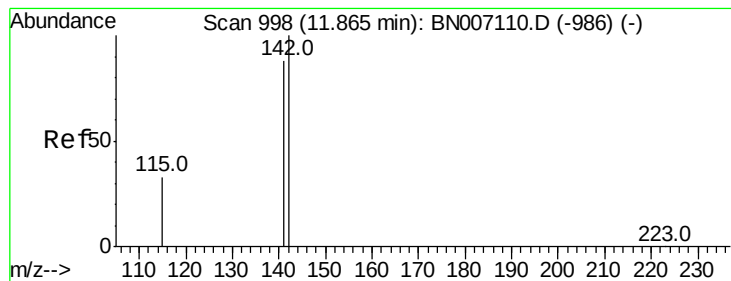
151 19.3 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#11

2-Methylnaphthalene

Concen: 0.035 ng

RT: 11.86 min Scan# 997

Delta R.T. -0.01 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

Instrument :

BNA_N

ClientSampleId :

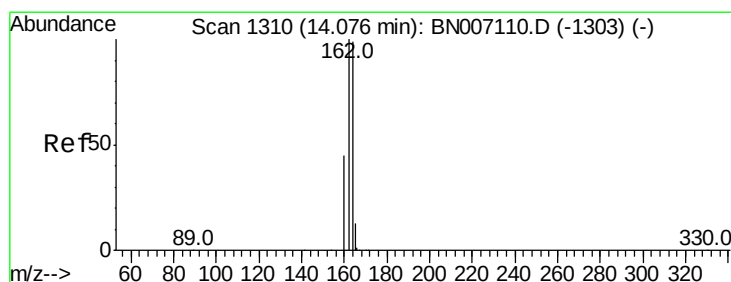
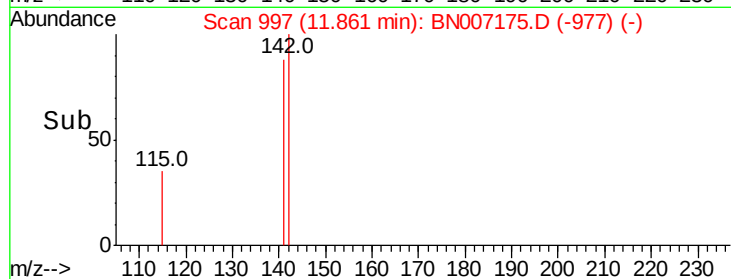
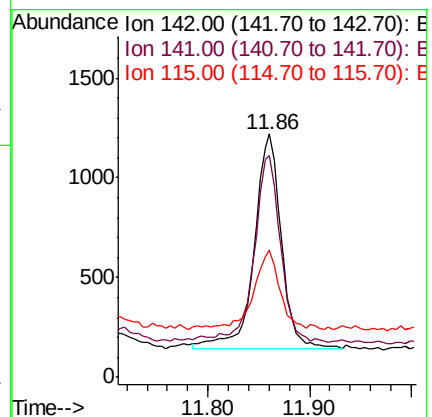
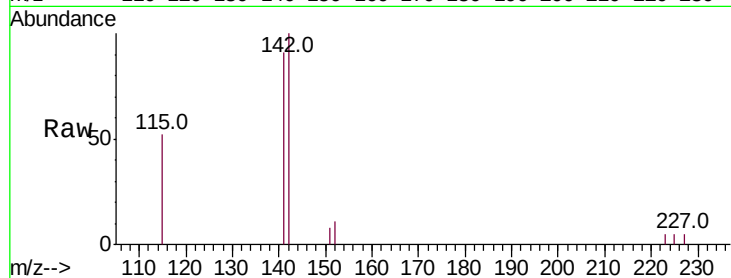
Tot Ion:142 Resp: 1985

Ion Ratio Lower Upper

142 100

141 91.2 69.0 103.6

115 52.0 27.1 40.7#



#12

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.08 min Scan# 1310

Delta R.T. -0.00 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

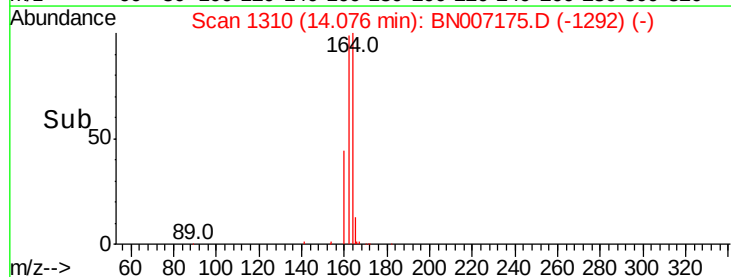
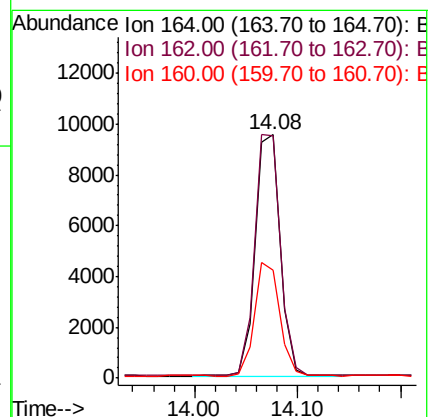
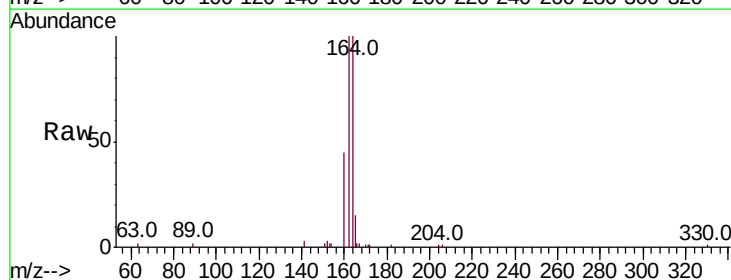
Tgt Ion:164 Resp: 15961

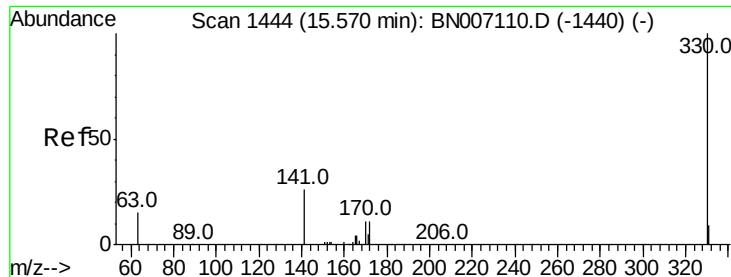
Ion Ratio Lower Upper

164 100

162 99.5 82.2 123.4

160 44.5 38.3 57.5

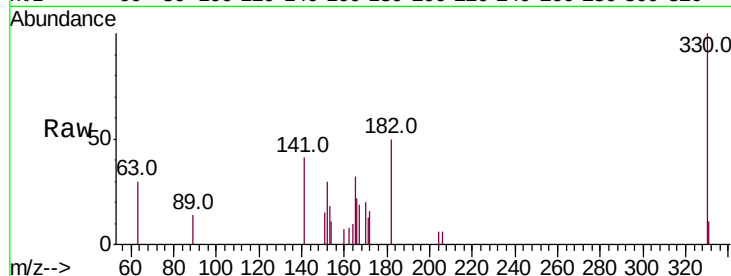




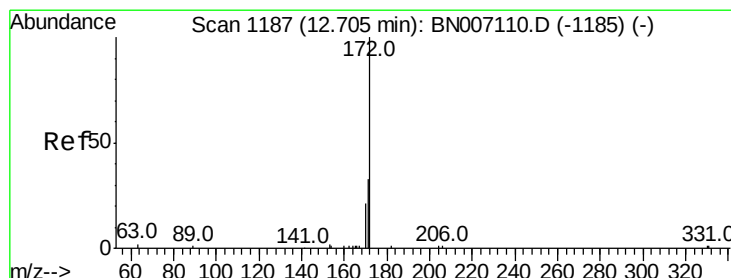
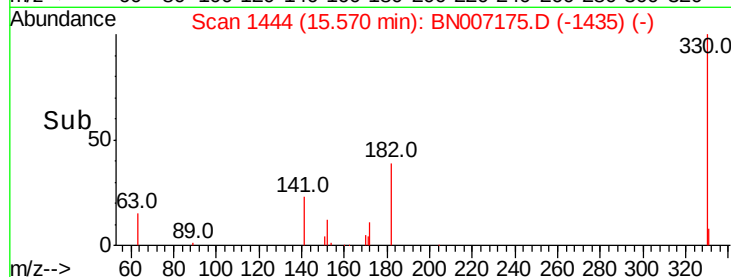
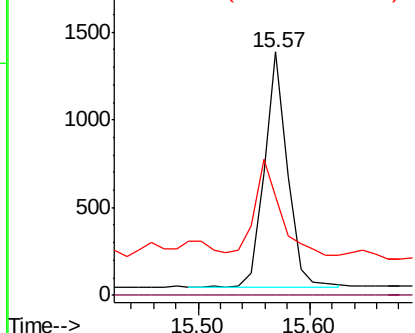
#13
 2,4,6-Tribromophenol
 Concen: 0.223 ng
 RT: 15.57 min Scan# 1444
 Delta R.T. -0.00 min
 Lab File: BN007175.D
 Acq: 14 Aug 2019 22:17

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:330 Resp: 1918
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 45.6 33.6 50.4

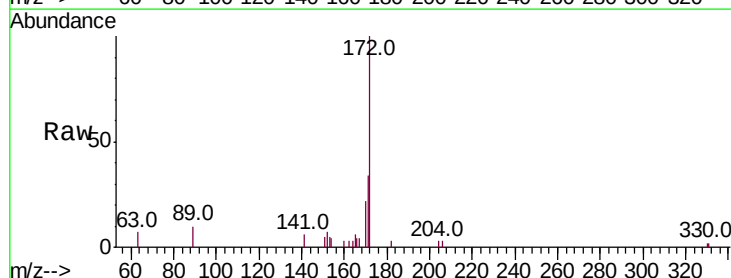


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

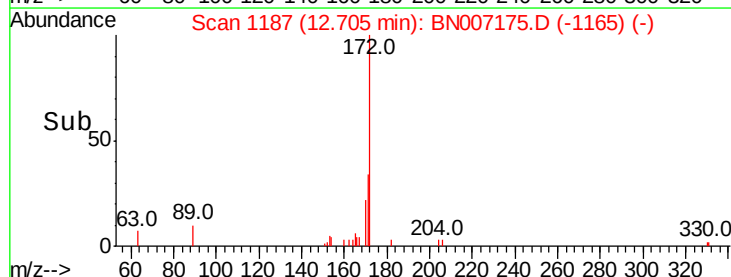
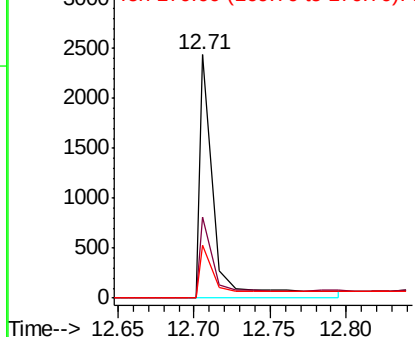


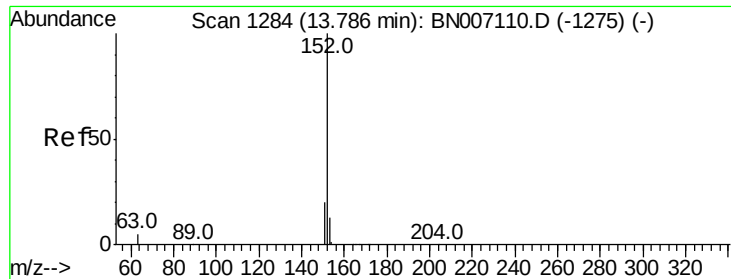
#14
 2-Fluorobiphenyl
 Concen: 0.083 ng
 RT: 12.71 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: BN007175.D
 Acq: 14 Aug 2019 22:17

Tgt Ion:172 Resp: 1921
 Ion Ratio Lower Upper
 172 100
 171 33.5 26.3 39.5
 170 21.5 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: 0.207 ng

RT: 13.79 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

Instrument :

BNA_N

ClientSampled :

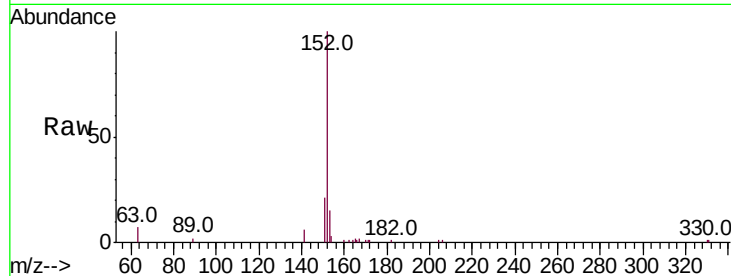
Tot Ion:152 Resp: 17274

Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.6

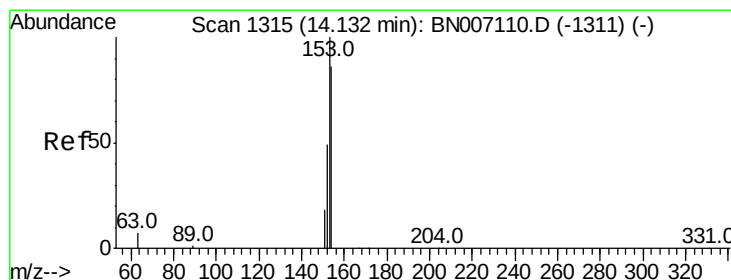
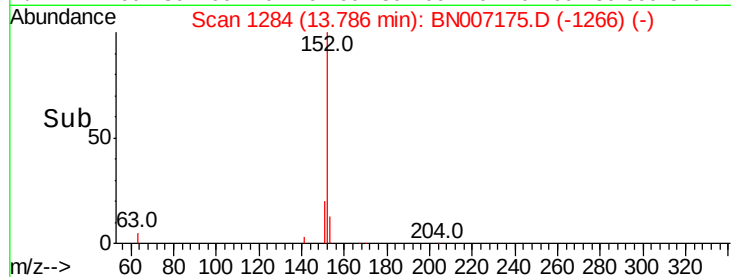
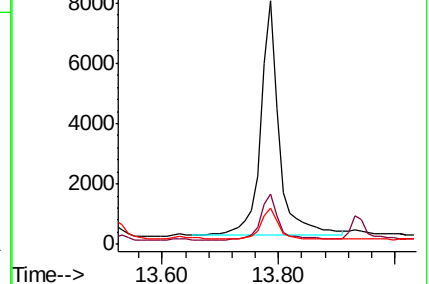
153 12.9 10.4 15.6



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



#16

Acenaphthene

Concen: 0.030 ng

RT: 14.13 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

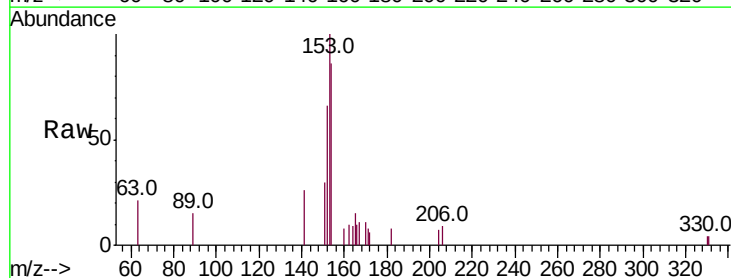
Tgt Ion:154 Resp: 1588

Ion Ratio Lower Upper

154 100

153 102.6 89.5 134.3

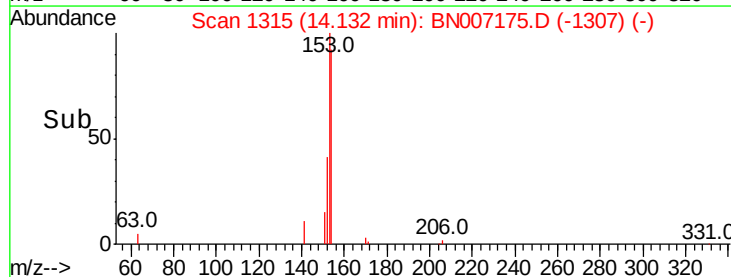
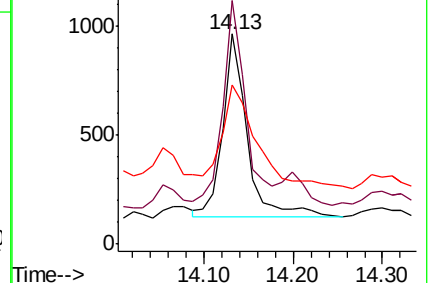
152 84.2 44.8 67.2#

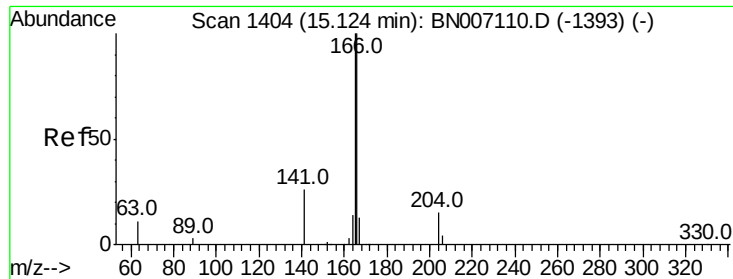


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

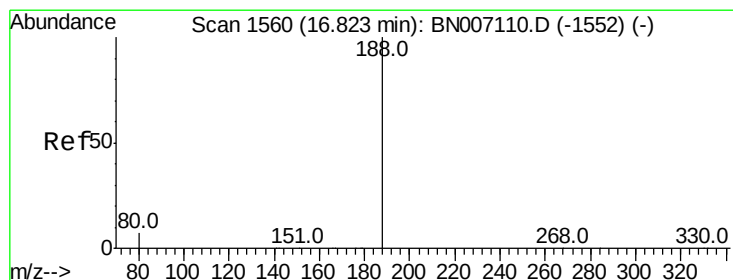
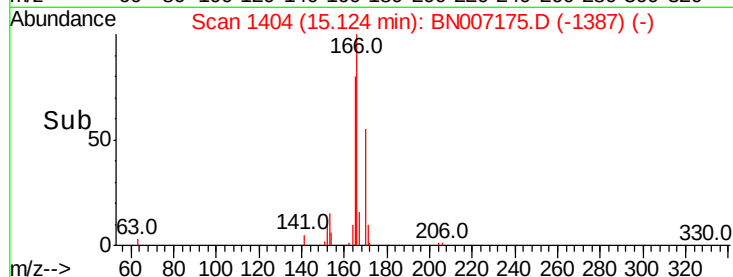
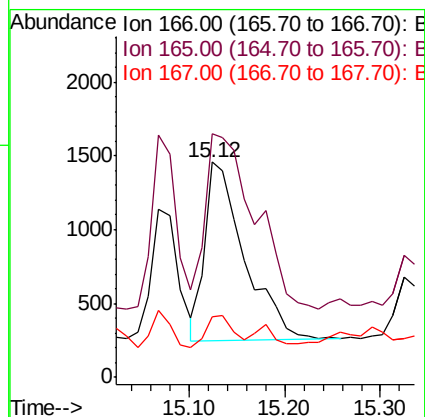
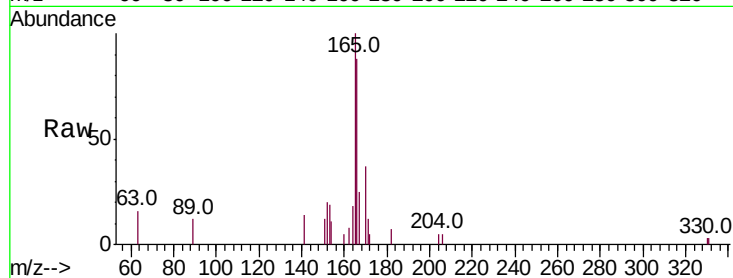




#17
 Fluorene
 Concen: 0.044 ng
 RT: 15.12 min Scan# 1404
 Delta R.T. -0.01 min
 Lab File: BN007175.D
 Acq: 14 Aug 2019 22:17

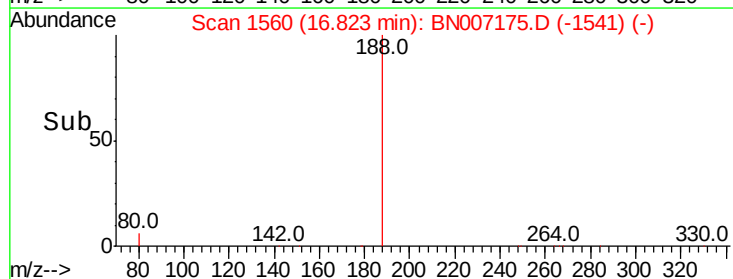
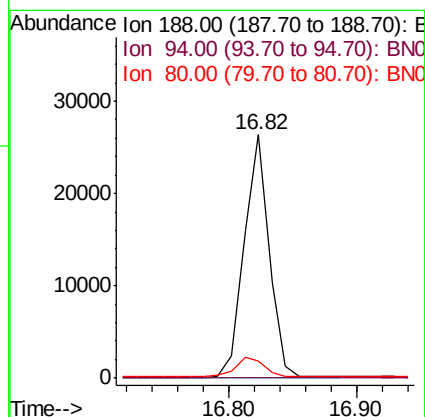
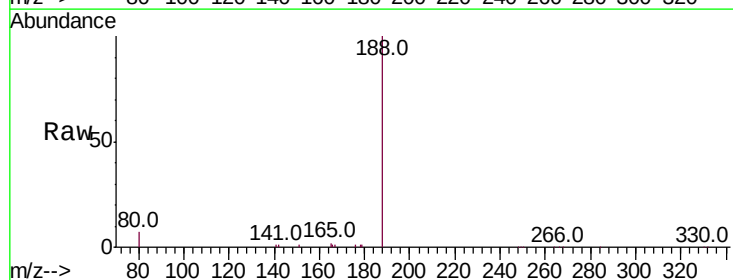
Instrument :
 BNA_N
 ClientSampleId :

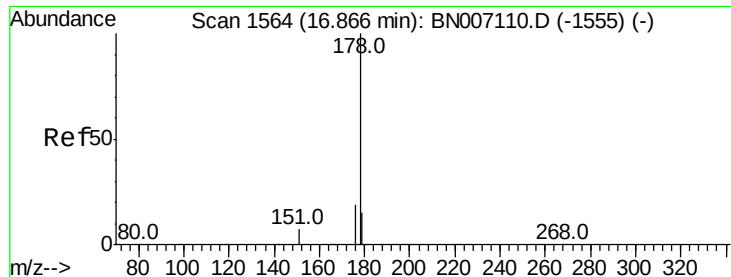
Tot Ion:166 Resp: 3493
 Ion Ratio Lower Upper
 166 100
 165 126.3 77.9 116.9#
 167 12.2 10.9 16.3



#18
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.82 min Scan# 1560
 Delta R.T. -0.00 min
 Lab File: BN007175.D
 Acq: 14 Aug 2019 22:17

Tgt Ion:188 Resp: 35891
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 7.0 7.8 11.6#





#22

Phenanthrene

Concen: 0.468 ng

RT: 16.87 min Scan# 1564

Delta R.T. -0.00 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

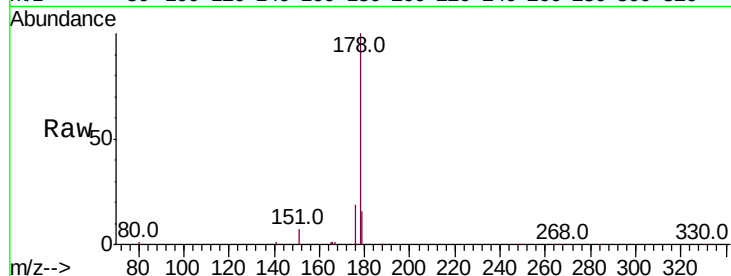
Instrument :

BNA_N

ClientSampleId :

Tot Ion:178 Resp: 50359

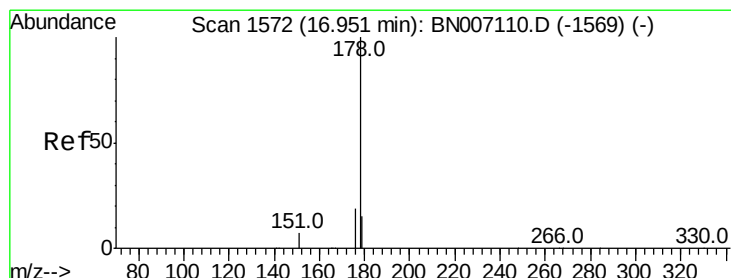
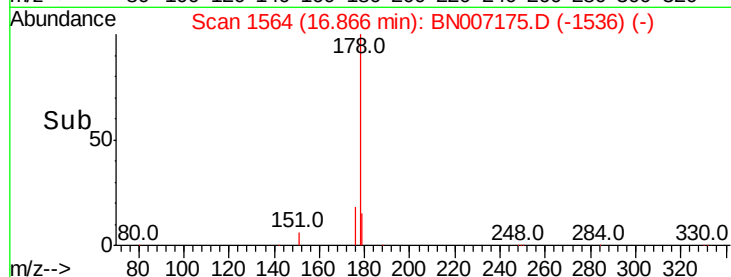
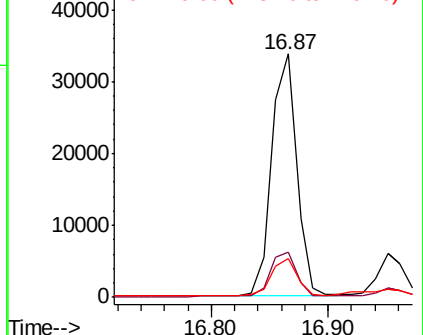
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.7	12.3	18.5



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: 0.089 ng

RT: 16.95 min Scan# 1572

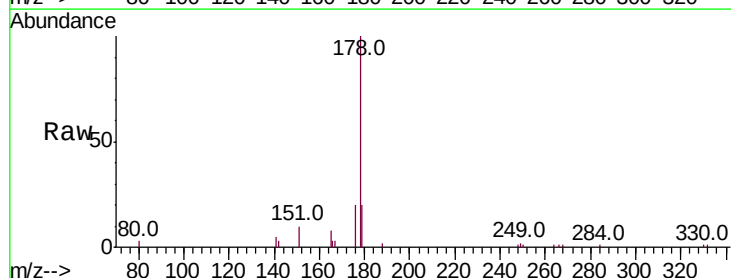
Delta R.T. -0.01 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

Tgt Ion:178 Resp: 8732

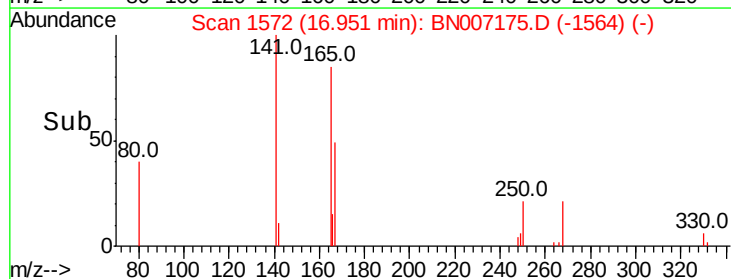
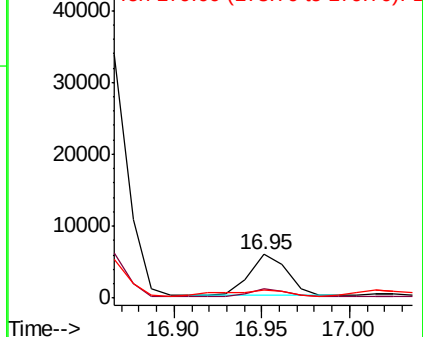
Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	22.2	12.5	18.7#

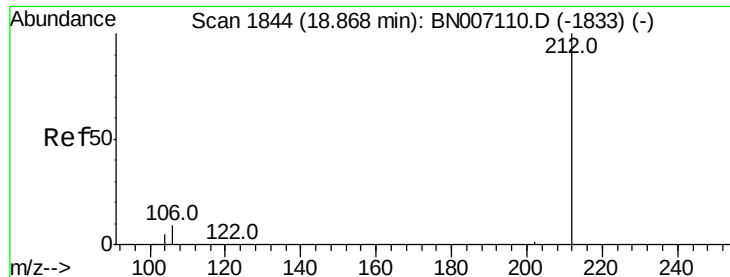


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

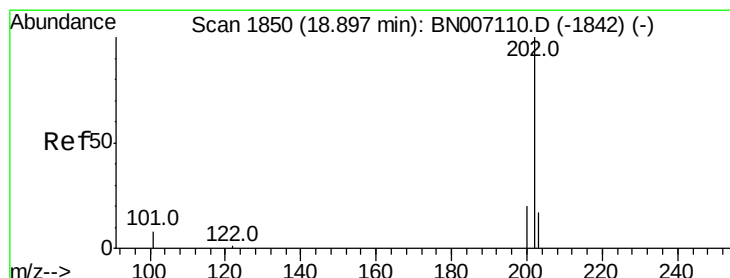
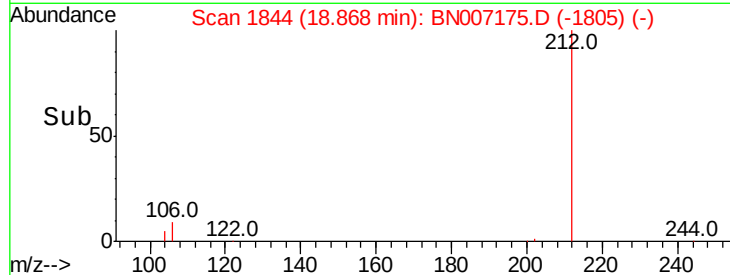
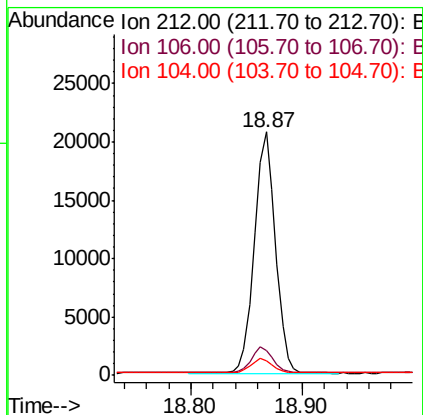
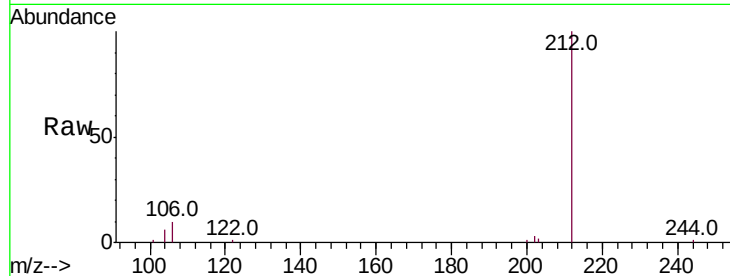




#24
 Fluoranthene-d10
 Concen: 0.212 ng
 RT: 18.87 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: BN007175.D
 Acq: 14 Aug 2019 22:17

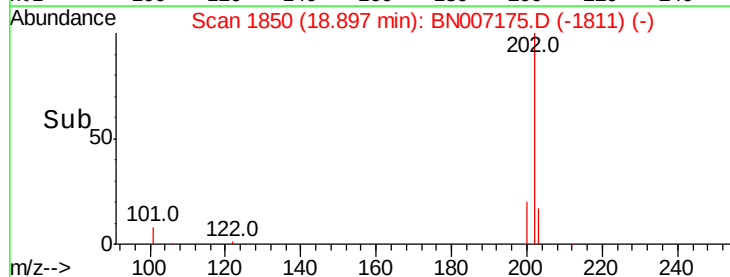
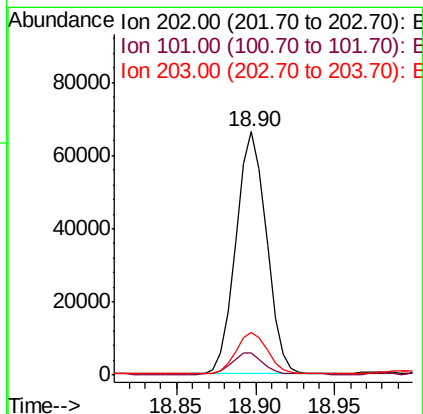
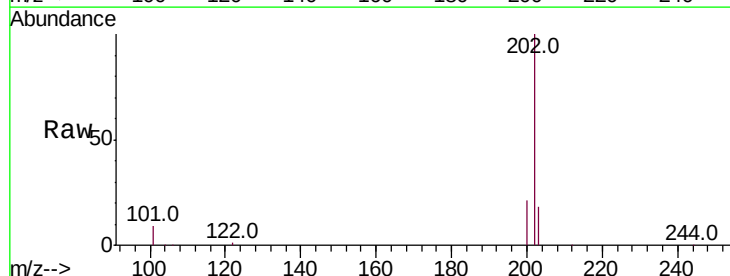
Instrument :
 BNA_N
 ClientSampled :

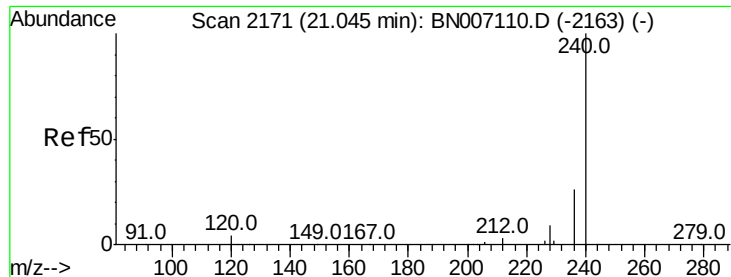
Tot Ion:212 Resp: 26996
 Ion Ratio Lower Upper
 212 100
 106 10.7 8.2 12.2
 104 6.0 4.5 6.7



#25
 Fluoranthene
 Concen: 0.647 ng
 RT: 18.90 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BN007175.D
 Acq: 14 Aug 2019 22:17

Tgt Ion:202 Resp: 89059
 Ion Ratio Lower Upper
 202 100
 101 9.1 7.0 10.4
 203 17.4 13.8 20.8

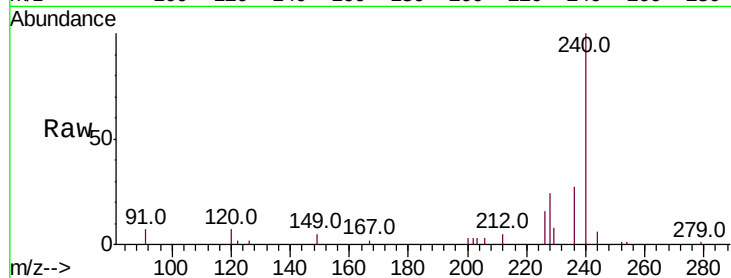




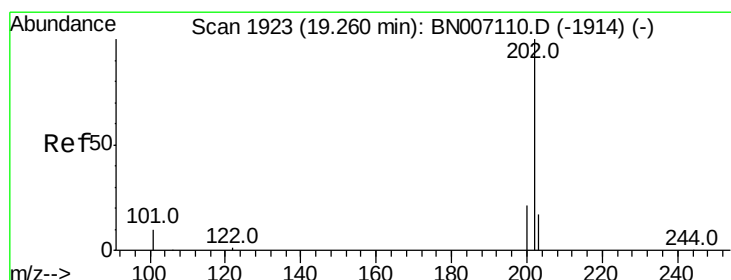
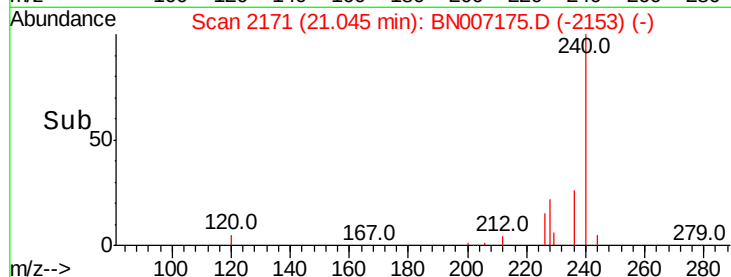
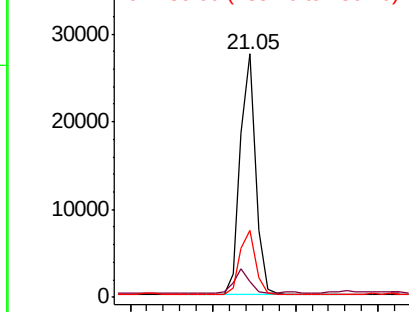
#26
Chrysene-d12
Concen: 0.400 ng
RT: 21.05 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Instrument :
BNA_N
ClientSampleId :

Tot Ion:240 Resp: 36306
Ion Ratio Lower Upper
240 100
120 6.5 4.0 6.0#
236 27.3 21.3 31.9

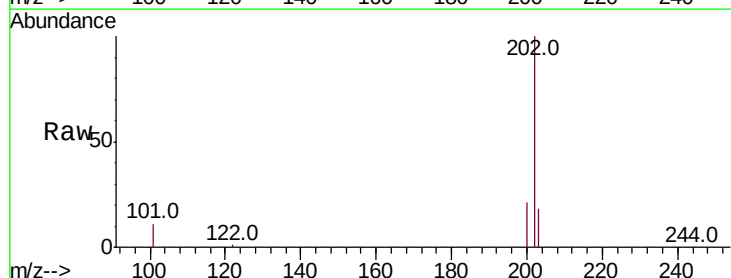


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

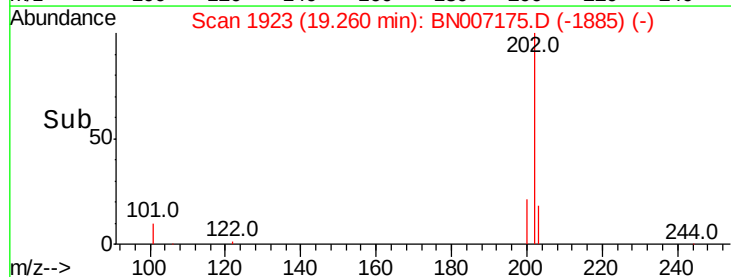
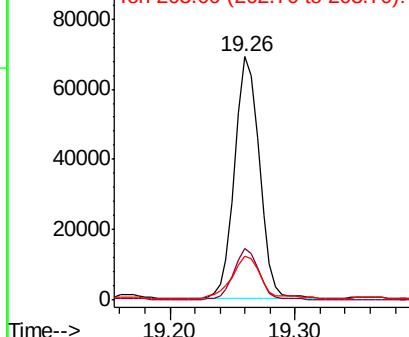


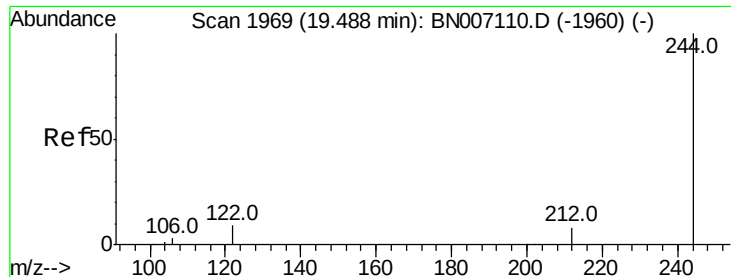
#27
Pyrene
Concen: 0.739 ng
RT: 19.26 min Scan# 1923
Delta R.T. -0.01 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Tgt Ion:202 Resp: 94140
Ion Ratio Lower Upper
202 100
200 20.9 16.6 24.8
203 21.3 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: 0.208 ng

RT: 19.49 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

Instrument :

BNA_N

ClientSampleId :

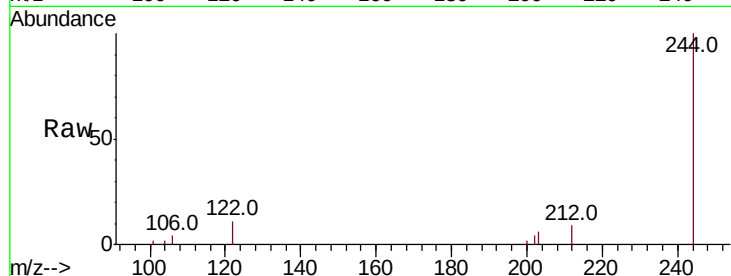
Tot Ion:244 Resp: 20599

Ion Ratio Lower Upper

244 100

212 8.7 6.2 9.2

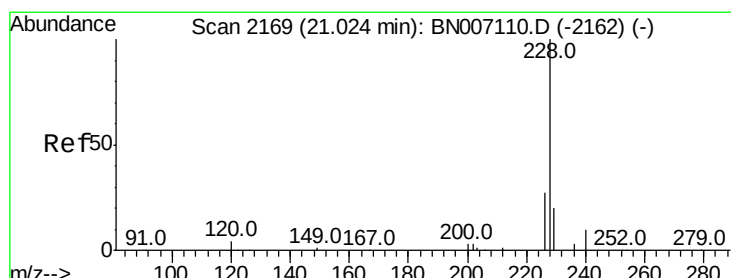
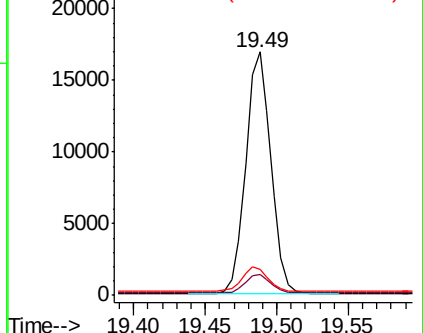
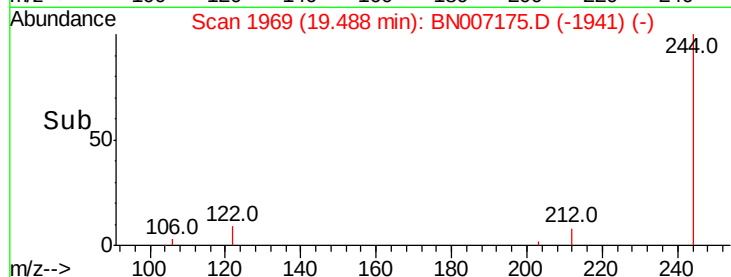
122 10.6 7.4 11.2



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#29

Benzo(a)anthracene

Concen: 0.451 ng

RT: 21.08 min Scan# 2174

Delta R.T. 0.04 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

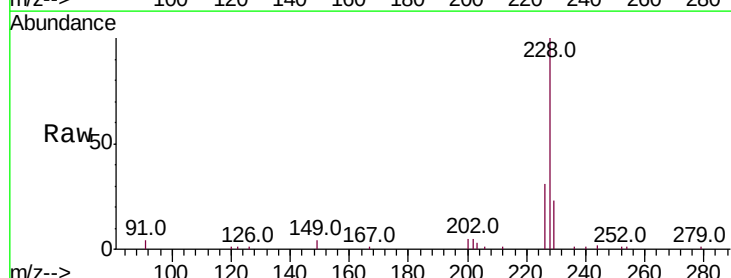
Tgt Ion:228 Resp: 59865

Ion Ratio Lower Upper

228 100

226 31.4 21.8 32.6

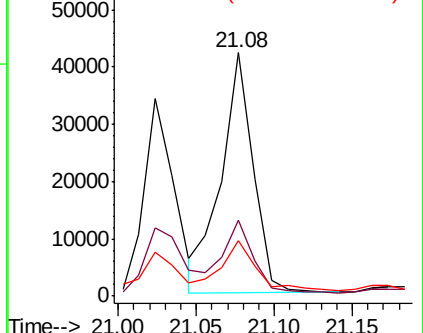
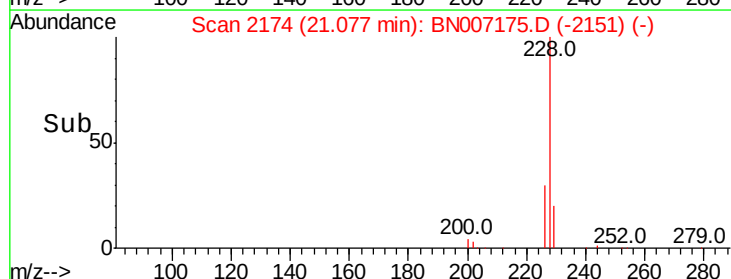
229 22.8 15.6 23.4

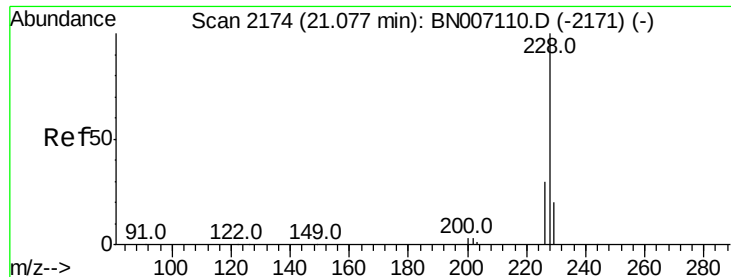


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.461 ng

RT: 21.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

Instrument :

BNA_N

ClientSampled :

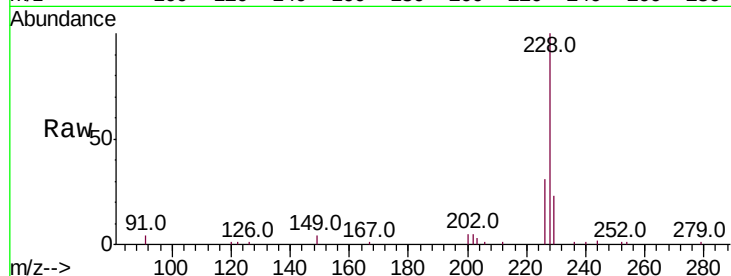
Tot Ion:228 Resp: 59504

Ion Ratio Lower Upper

228 100

226 31.4 23.8 35.6

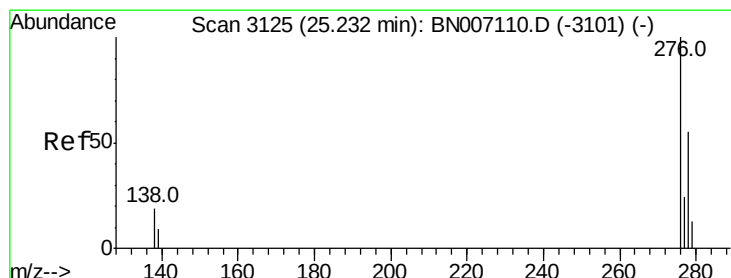
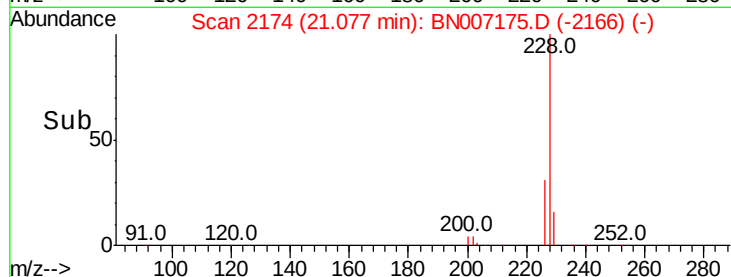
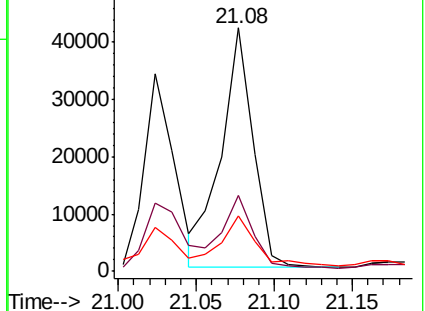
229 22.8 15.7 23.5



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: 0.236 ng

RT: 25.23 min Scan# 3125

Delta R.T. -0.02 min

Lab File: BN007175.D

Acq: 14 Aug 2019 22:17

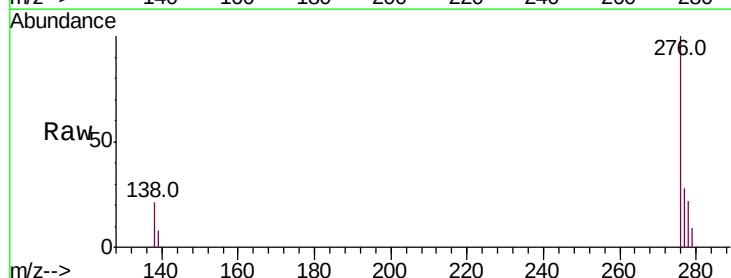
Tgt Ion:276 Resp: 33529

Ion Ratio Lower Upper

276 100

138 18.3 16.0 24.0

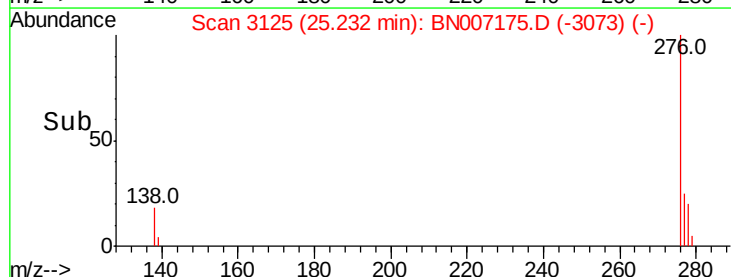
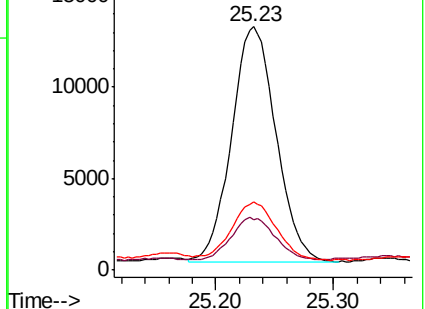
277 25.1 19.9 29.9

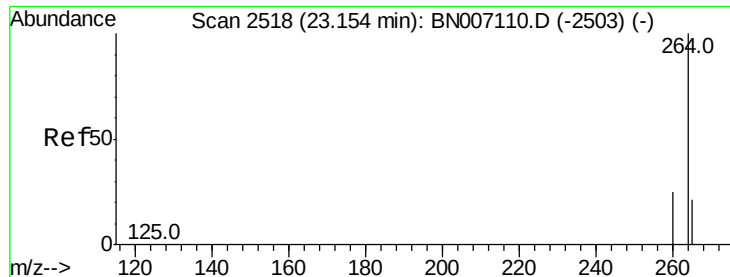


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



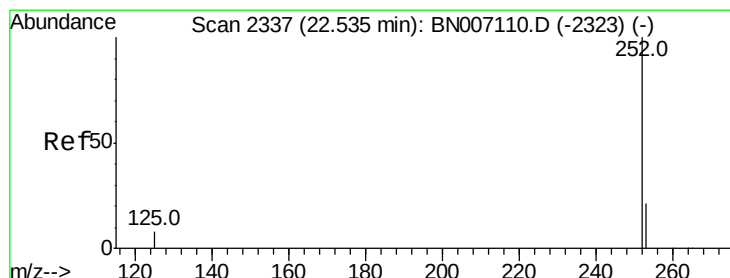
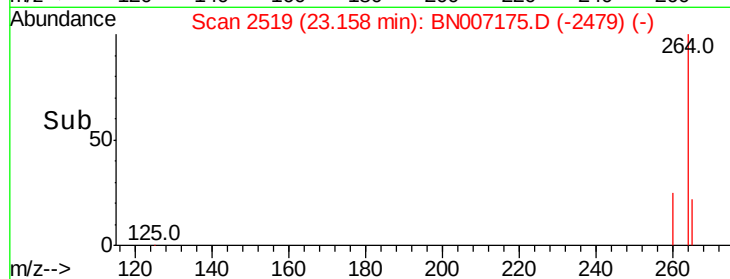
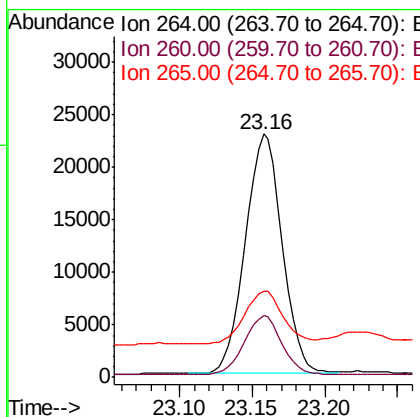
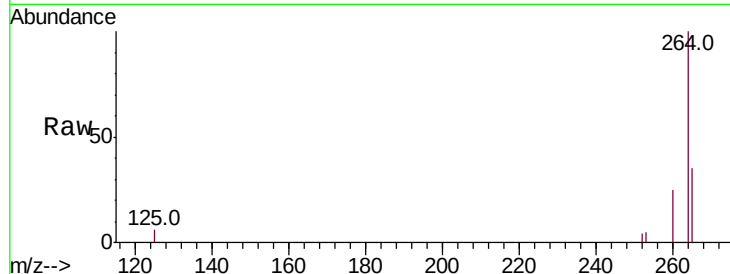


#32
Pervlene-d12
Concen: 0.400 ng
RT: 23.16 min Scan# 2519
Delta R.T. -0.01 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Instrument :
BNA_N
ClientSampleId :

Tot Ion:264 Resp: 40443

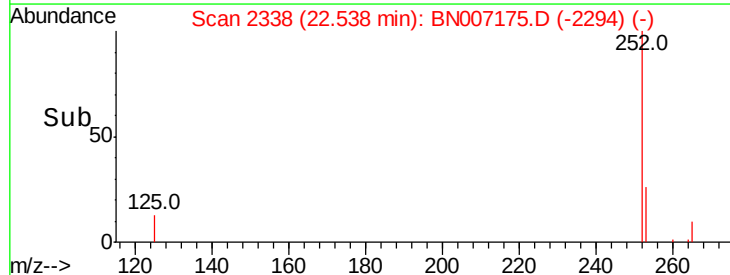
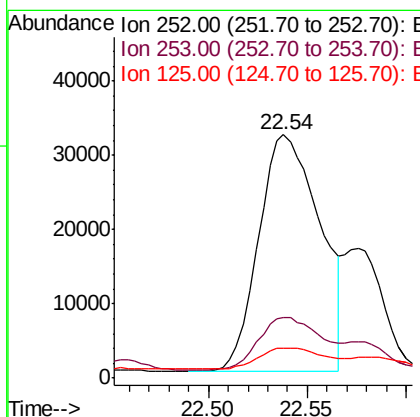
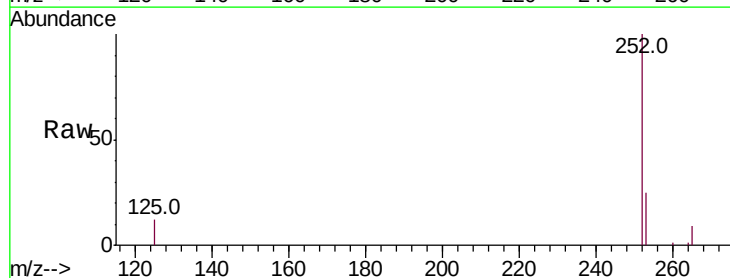
Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.8	29.8
265	35.5	26.2	39.4

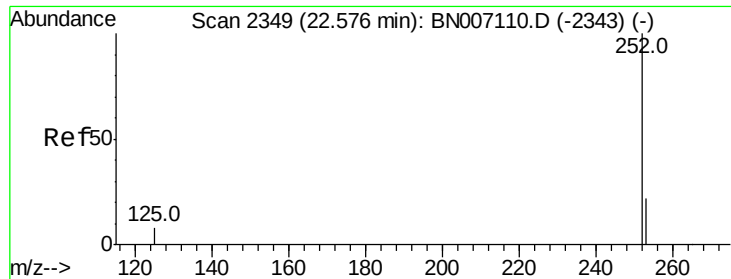


#33
Benzo(b)fluoranthene
Concen: 0.496 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.01 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Tgt Ion:252 Resp: 68748

Ion	Ratio	Lower	Upper
252	100		
253	25.0	18.2	27.2
125	12.2	7.4	11.0

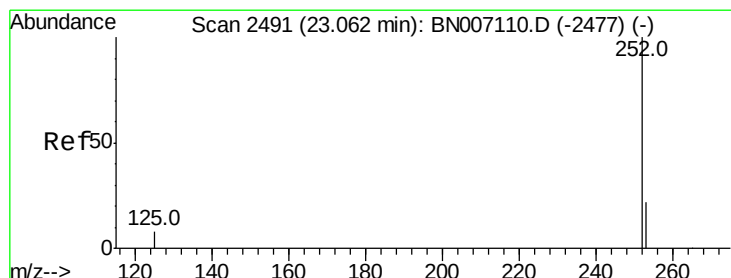
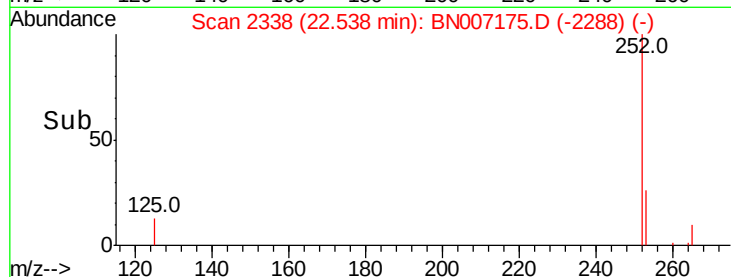
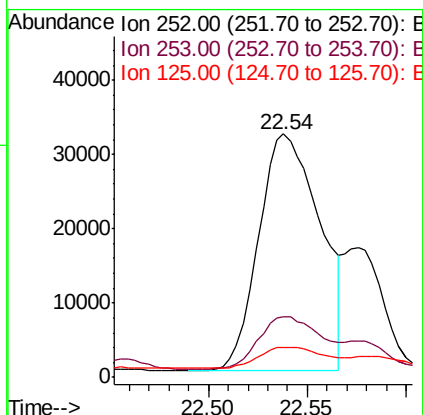
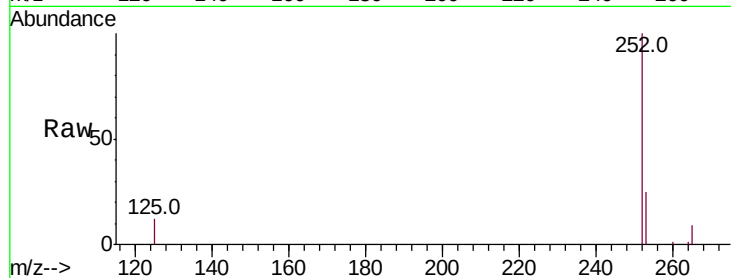




#34
Benzo(k)fluoranthene
Concen: 0.502 ng
RT: 22.54 min Scan# 2338
Delta R.T. -0.05 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

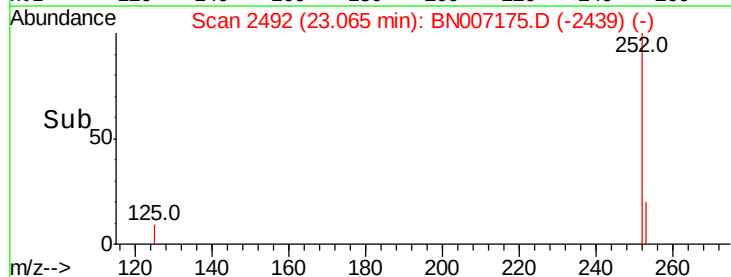
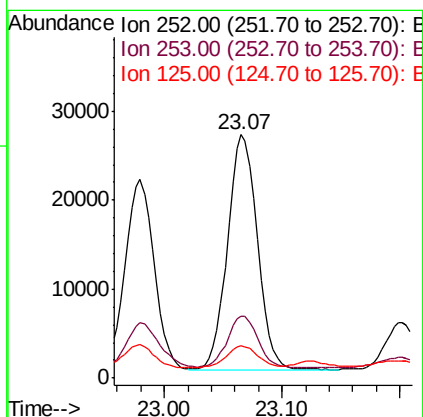
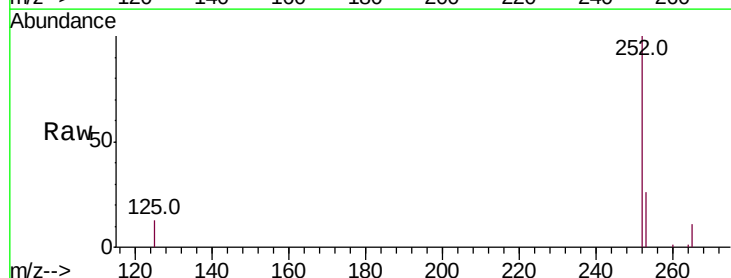
Instrument :
BNA_N
ClientSampleId :

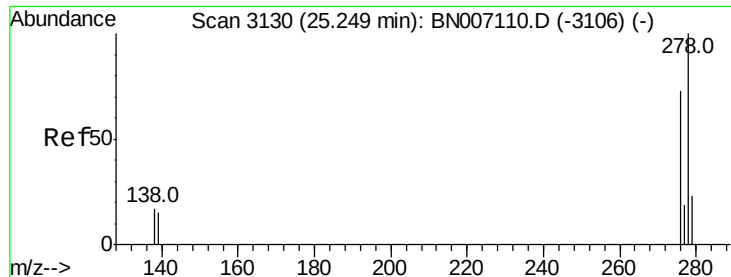
Tot Ion:252 Resp: 68748
Ion Ratio Lower Upper
252 100
253 25.0 18.1 27.1
125 12.2 7.4 11.0#



#35
Benzo(a)pyrene
Concen: 0.369 ng
RT: 23.07 min Scan# 2492
Delta R.T. -0.02 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Tgt Ion:252 Resp: 46434
Ion Ratio Lower Upper
252 100
253 25.6 18.5 27.7
125 13.2 8.2 12.4#

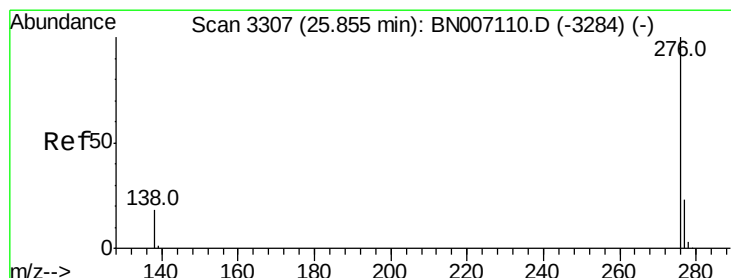
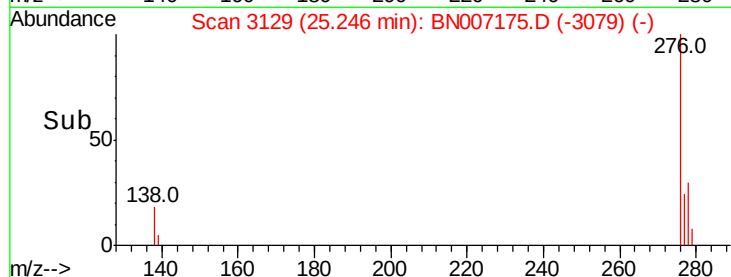
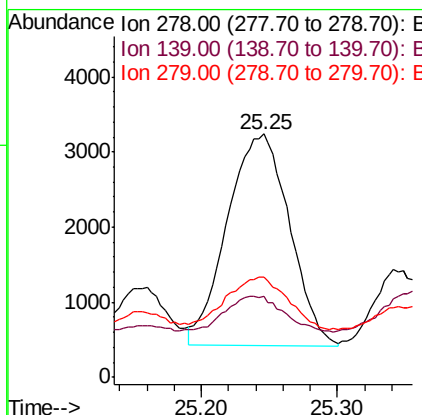
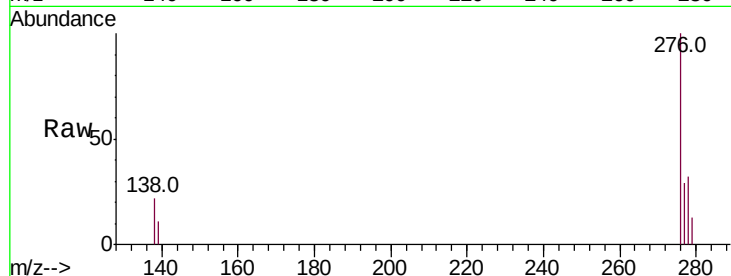




#36
Dibenzo(a,h)anthracene
Concen: 0.072 ng
RT: 25.25 min Scan# 3129
Delta R.T. -0.03 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Instrument :
BNA_N
ClientSampleId :

Tot Ion:278 Resp: 8971
Ion Ratio Lower Upper
278 100
139 33.4 11.3 16.9#
279 40.9 19.3 28.9#



#37
Benzo(g,h,i)perylene
Concen: 0.271 ng
RT: 25.86 min Scan# 3309
Delta R.T. -0.02 min
Lab File: BN007175.D
Acq: 14 Aug 2019 22:17

Tgt Ion:276 Resp: 35013
Ion Ratio Lower Upper
276 100
277 27.2 19.8 29.8
138 21.3 14.6 22.0

