

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN100419\
 Data File : BN008010.D
 Acq On : 04 Oct 2019 19:11
 Operator : JU
 Sample : K5078-03RE
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Oct 05 01:25:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN091819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 03 18:39:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	32332	0.40	ng	-0.02
7) Naphthalene-d8	10.44	136	129535	0.40	ng	-0.03
13) Acenaphthene-d10	14.30	164	70063	0.40	ng	-0.03
19) Phenanthrene-d10	17.05	188	113465	0.40	ng	-0.03
27) Chrysene-d12	21.25	240	100357	0.40	ng	-0.02
34) Perylene-d12	23.46	264	145991	0.40	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.31	112	15105	0.14	ng	0.00
5) Phenol-d6	6.86	99	20147	0.14	ng	0.00
8) Nitrobenzene-d5	8.81	82	19389	0.17	ng	-0.03
11) 2-Methylnaphthalene-d10	12.04	152	35212	0.16	ng	-0.03
14) 2,4,6-Tribromophenol	15.79	330	4774	0.13	ng	-0.03
15) 2-Fluorobiphenyl	12.92	172	46788	0.16	ng	-0.03
25) Fluoranthene-d10	19.09	212	47969	0.13	ng	-0.02
29) Terphenyl-d14	19.69	244	38741	0.16	ng	-0.02

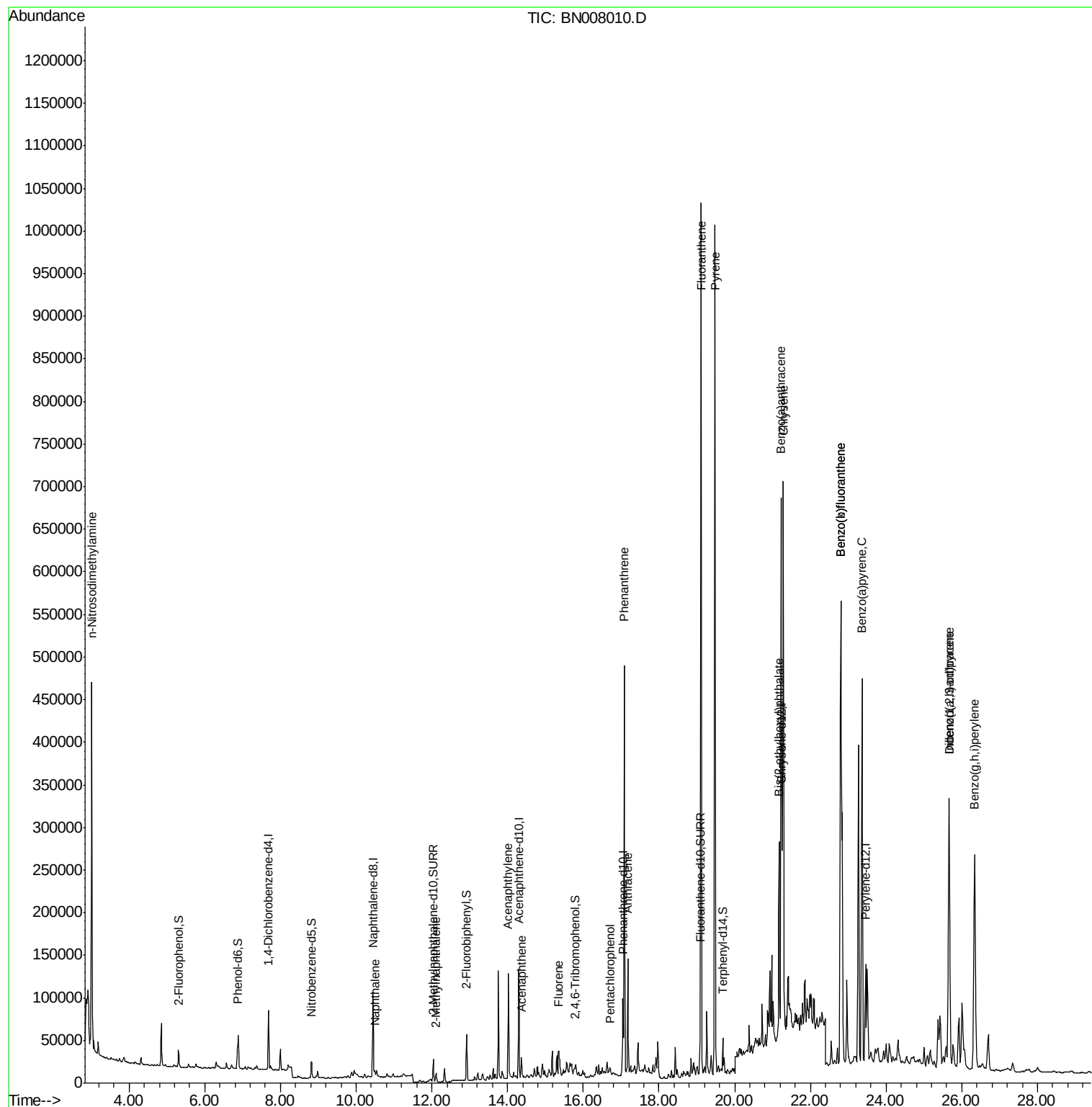
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.02	42	33711	2.042	ng	# 69
9) Naphthalene	10.49	128	8932	0.025	ng	# 91
12) 2-Methylnaphthalene	12.11	142	8084	0.033	ng	# 95
16) Acenaphthylene	14.02	152	156246	0.420	ng	99
17) Acenaphthene	14.37	154	13771	0.057	ng	99
18) Fluorene	15.36	166	28776	0.094	ng	# 84
22) Pentachlorophenol	16.71	266	794	0.029	ng	96
23) Phenanthrene	17.09	178	469316	1.328	ng	100
24) Anthracene	17.18	178	162216	0.508	ng	98
26) Fluoranthene	19.11	202	896356	2.039	ng	99
28) Pyrene	19.48	202	897147	2.621	ng	# 96
30) Benzo(a)anthracene	21.23	228	494856	1.339	ng	95
31) Chrysene	21.28	228	586205	1.628	ng	97
32) Bis(2-ethylhexyl)phthalate	21.18	149	189329	0.996	ng	100
33) Indeno(1,2,3-cd)pyrene	25.66	276	510545	1.132	ng	# 95
35) Benzo(b)fluoranthene	22.80	252	899143	1.774	ng	99
36) Benzo(k)fluoranthene	22.80	252	899143	1.794	ng	100
37) Benzo(a)pyrene	23.36	252	615406	1.292	ng	99
38) Dibenzo(a,h)anthracene	25.67	278	129804	0.266	ng	# 89
39) Benzo(g,h,i)perylene	26.34	276	525905	1.091	ng	99

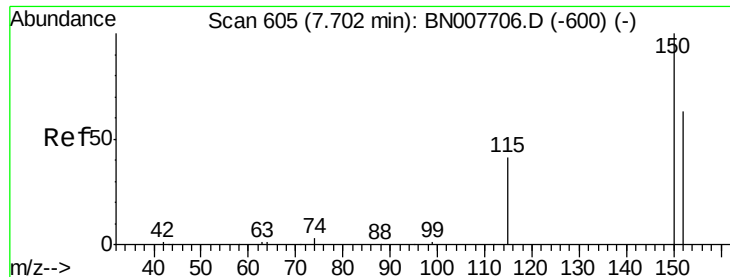
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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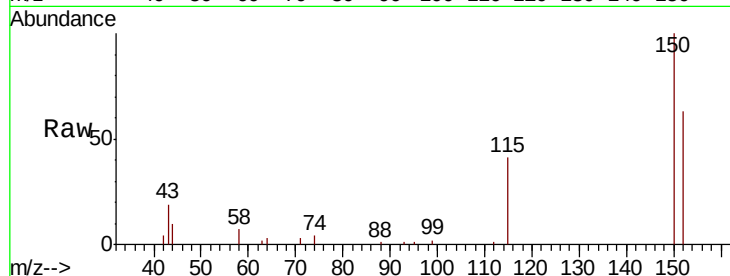


#1

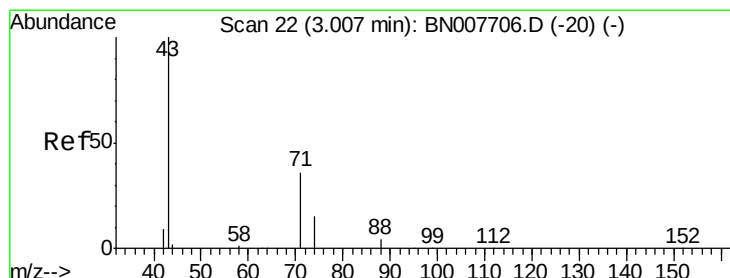
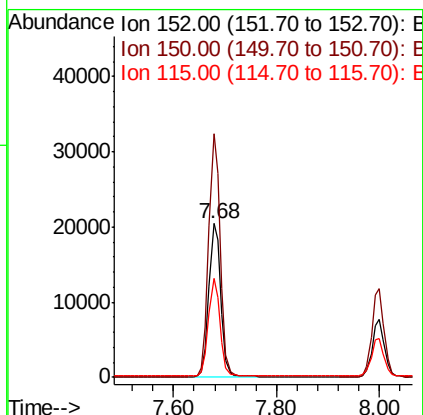
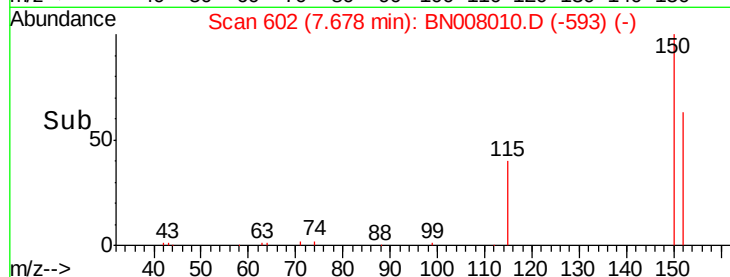
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.68 min Scan# 602
Delta R.T. -0.02 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 32332
Ion Ratio Lower Upper
152 100
150 158.2 125.6 188.4
115 64.6 53.3 79.9



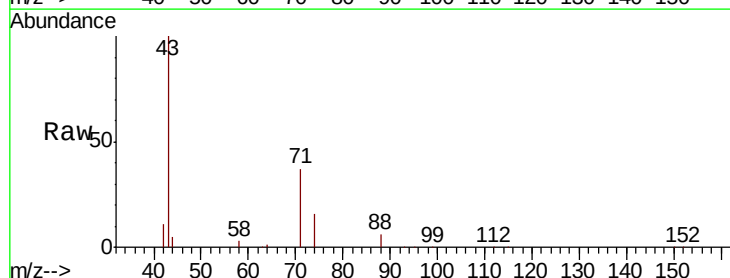
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



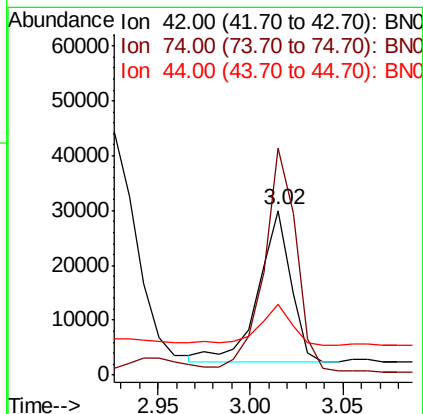
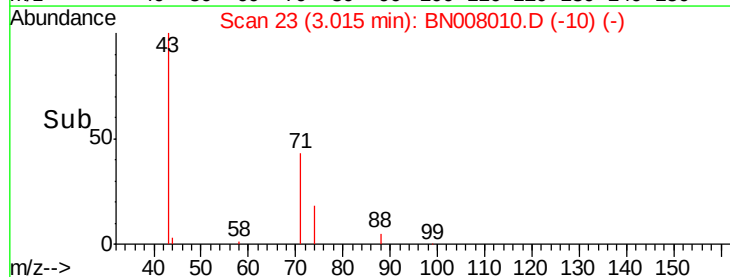
#3

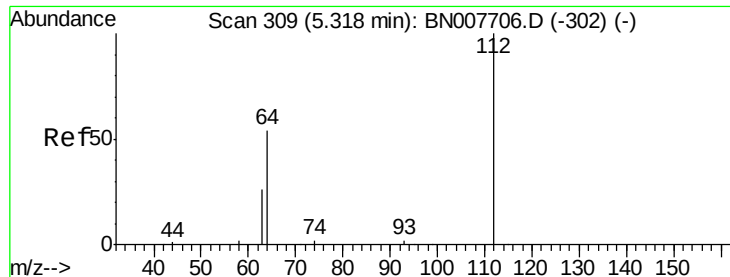
n-Nitrosodimethylamine
Concen: 2.042 ng
RT: 3.02 min Scan# 23
Delta R.T. 0.01 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

Tgt Ion: 42 Resp: 33711
Ion Ratio Lower Upper
42 100
74 147.6 87.9 131.9#
44 26.0 29.4 44.0#



Abundance Ion 42.00 (41.70 to 42.70): BNC
Ion 74.00 (73.70 to 74.70): BNC
Ion 44.00 (43.70 to 44.70): BNC





#4

2-Fluorophenol

Concen: 0.136 ng

RT: 5.31 min Scan# 308

Delta R.T. -0.01 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

Instrument :

BNA_N

ClientSampleId :

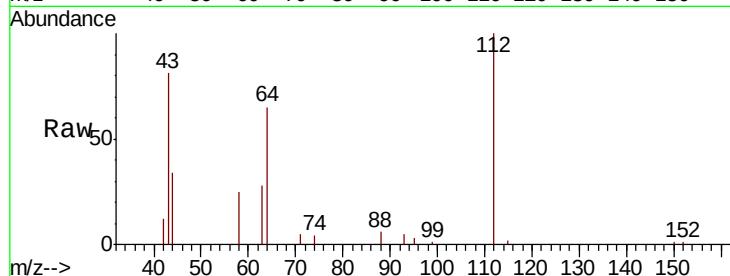
Tot Ion:112 Resp: 15105

Ion Ratio Lower Upper

112 100

64 58.2 46.6 70.0

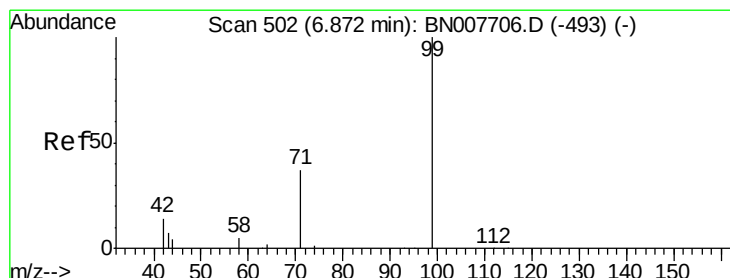
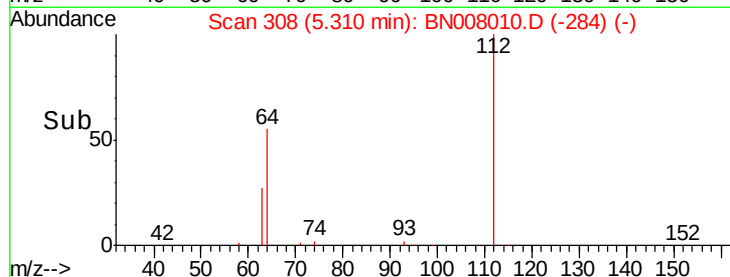
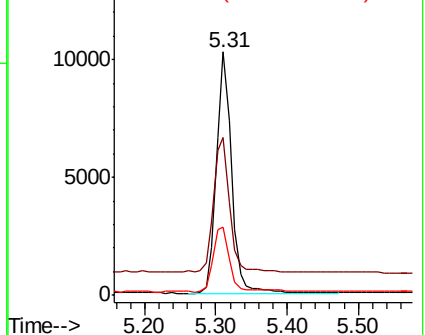
63 28.2 23.1 34.7



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



#5

Phenol-d6

Concen: 0.141 ng

RT: 6.86 min Scan# 501

Delta R.T. -0.01 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

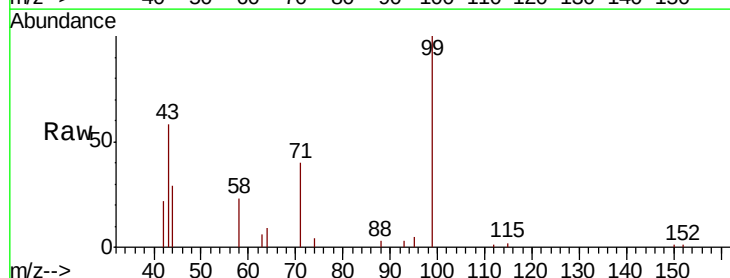
Tgt Ion: 99 Resp: 20147

Ion Ratio Lower Upper

99 100

42 23.5 12.8 19.2#

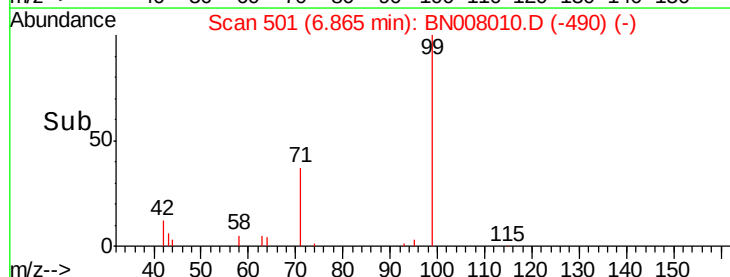
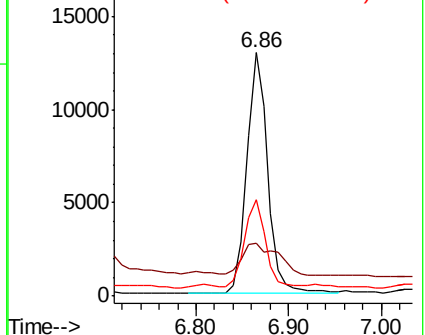
71 36.7 27.6 41.4

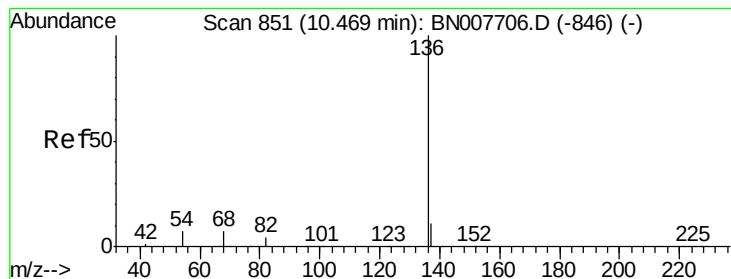


Abundance Ion 99.00 (98.70 to 99.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

Ion 71.00 (70.70 to 71.70): BNC





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.44 min Scan# 849

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

Instrument :

BNA_N

ClientSampleId :

Tot Ion:136 Resp: 129535

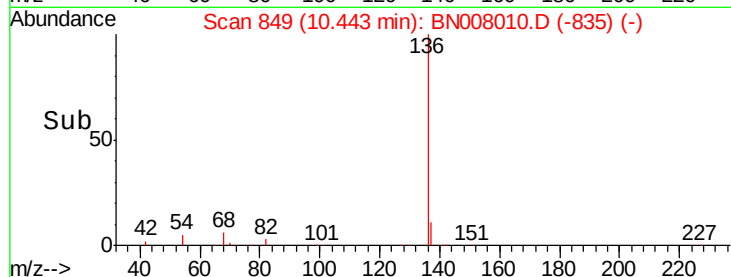
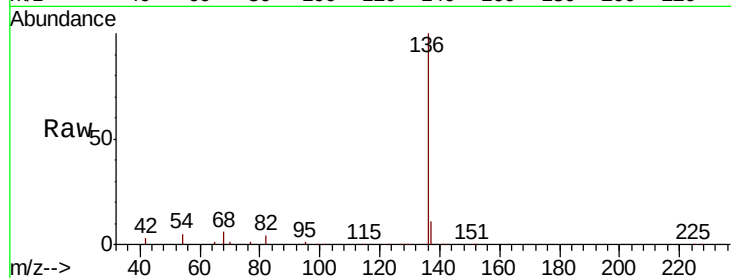
Ion Ratio Lower Upper

136 100

137 11.1 9.2 13.8

54 5.4 5.8 8.8#

68 6.2 6.5 9.7#

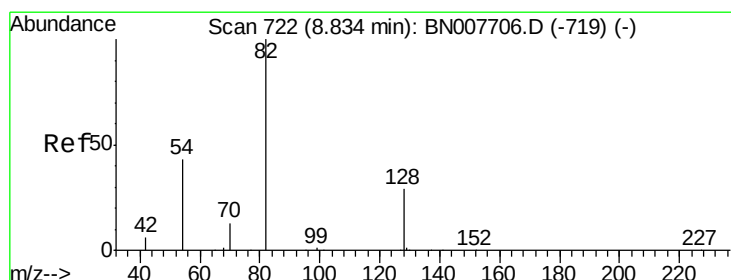
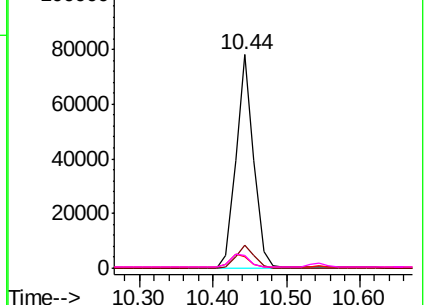


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.171 ng

RT: 8.81 min Scan# 720

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

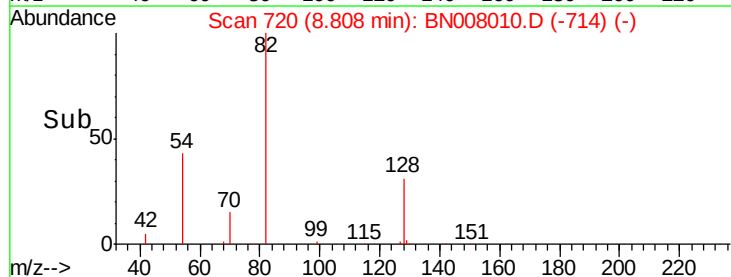
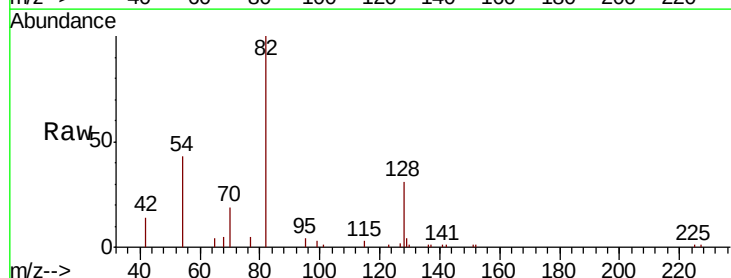
Tgt Ion: 82 Resp: 19389

Ion Ratio Lower Upper

82 100

128 31.2 24.5 36.7

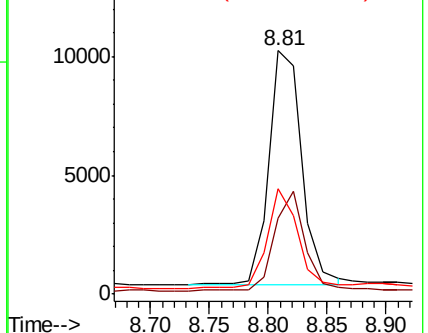
54 43.4 35.2 52.8

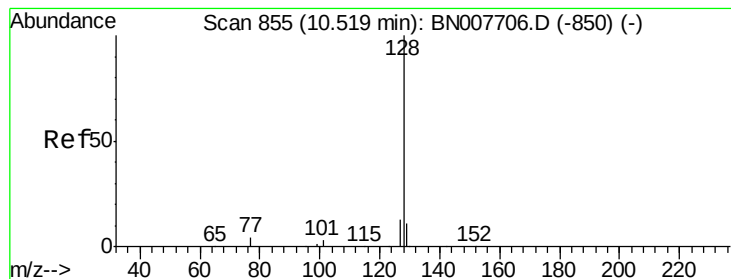


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.025 ng

RT: 10.49 min Scan# 853

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

Instrument :

BNA_N

ClientSampleId :

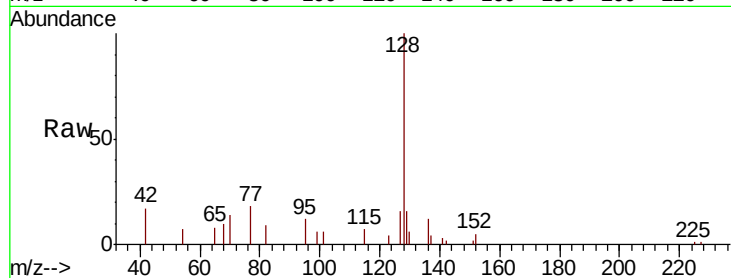
Tot Ion:128 Resp: 8932

Ion Ratio Lower Upper

128 100

129 16.4 9.1 13.7#

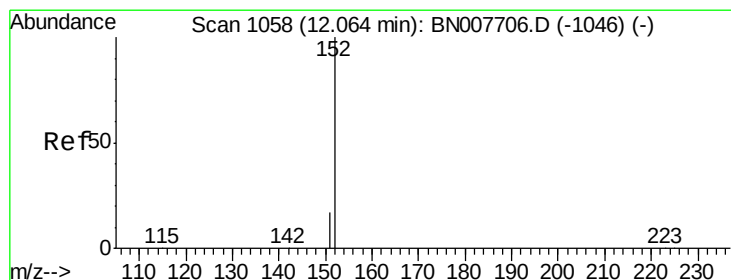
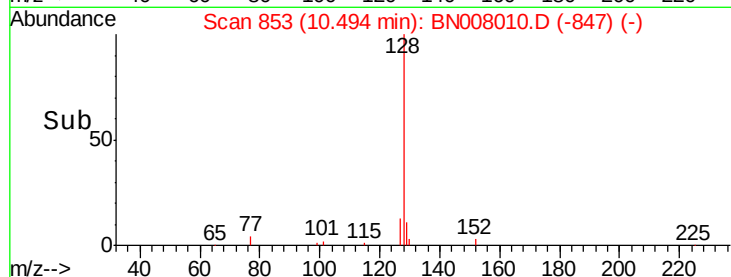
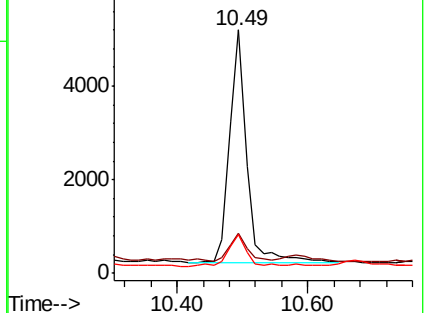
127 15.8 10.6 15.8



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



#11

2-Methylnaphthalene-d10

Concen: 0.161 ng

RT: 12.04 min Scan# 1052

Delta R.T. -0.03 min

Lab File: BN008010.D

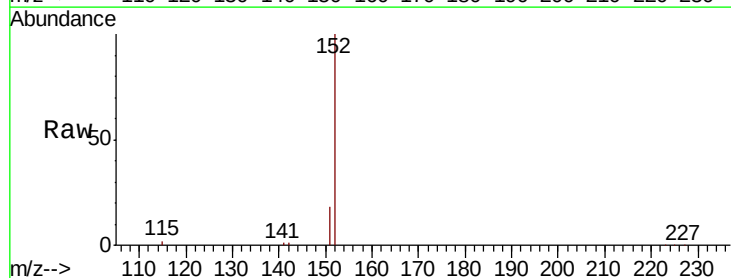
Acq: 04 Oct 2019 19:11

Tgt Ion:152 Resp: 35212

Ion Ratio Lower Upper

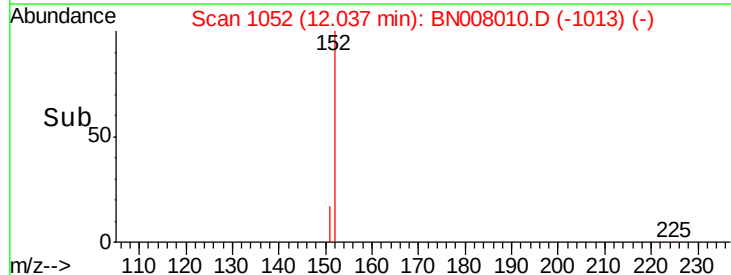
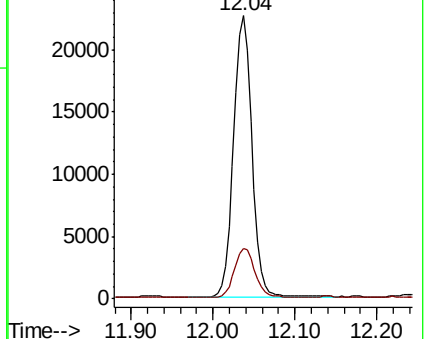
152 100

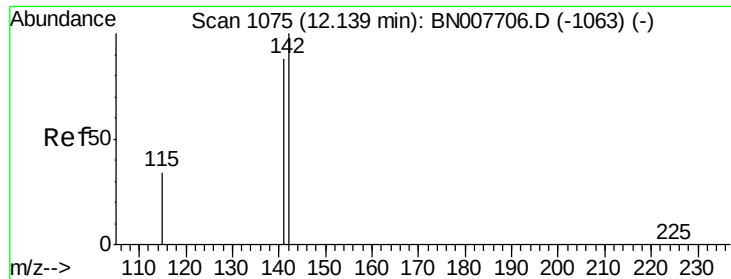
151 19.1 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.033 ng

RT: 12.11 min Scan# 1069

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

Instrument :

BNA_N

ClientSampleId :

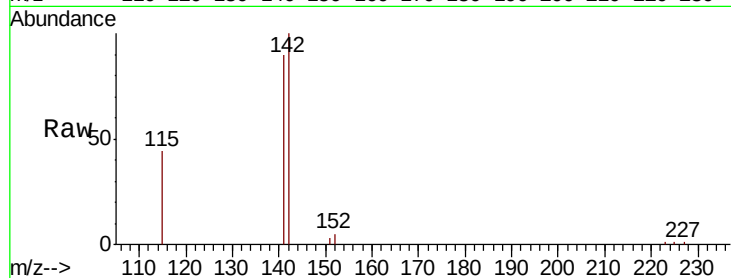
Tot Ion:142 Resp: 8084

Ion Ratio Lower Upper

142 100

141 89.6 70.6 106.0

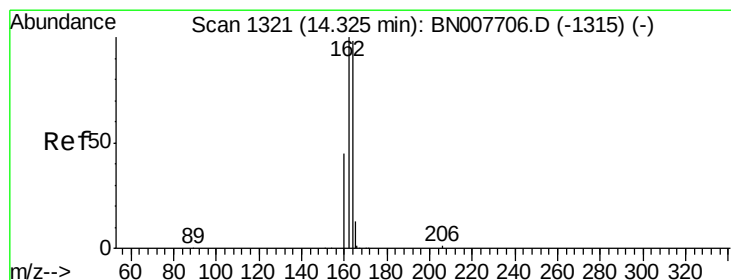
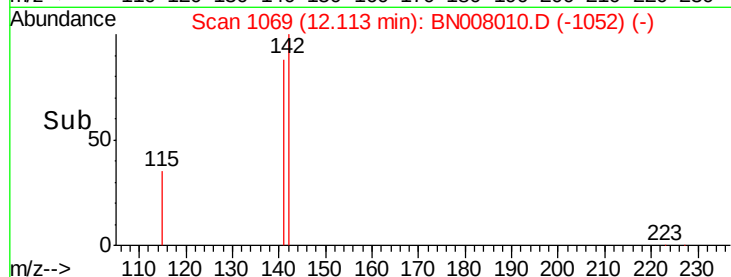
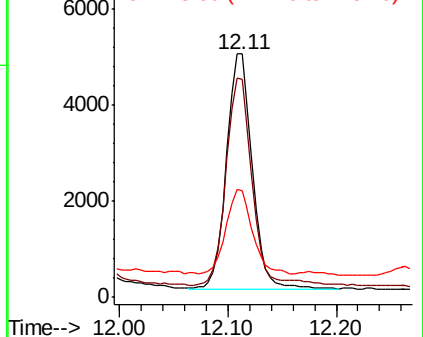
115 43.9 28.3 42.5#



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



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.30 min Scan# 1318

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

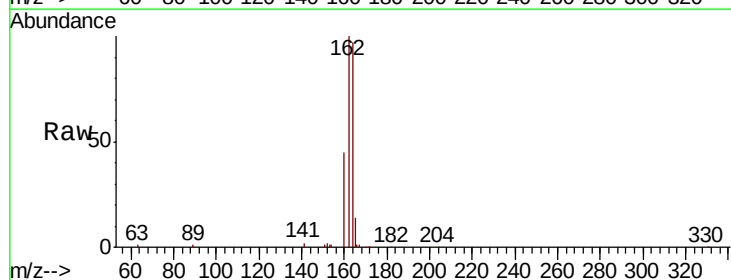
Tgt Ion:164 Resp: 70063

Ion Ratio Lower Upper

164 100

162 102.6 81.7 122.5

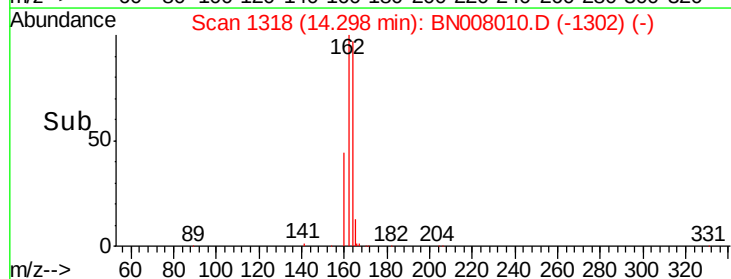
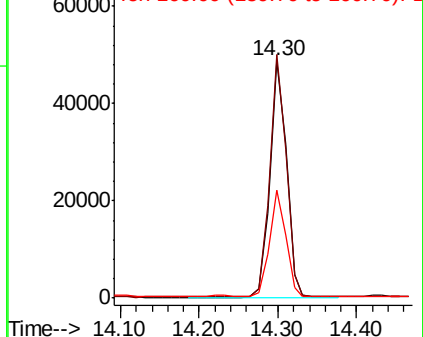
160 45.7 37.0 55.4

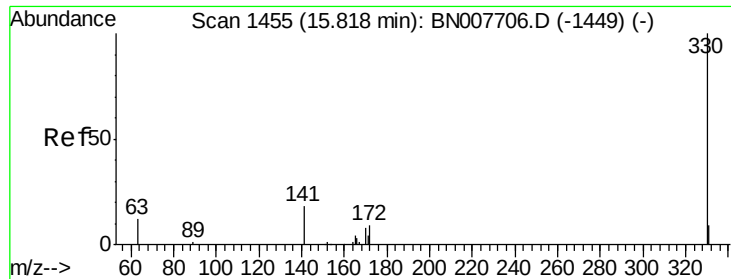


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

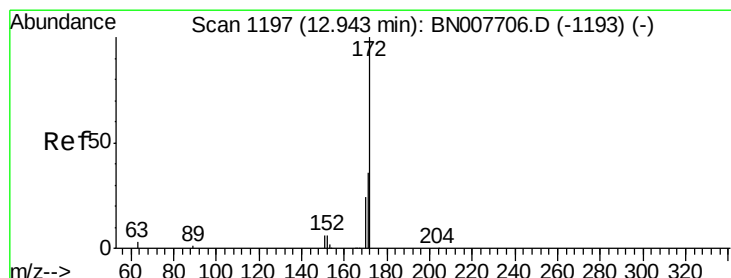
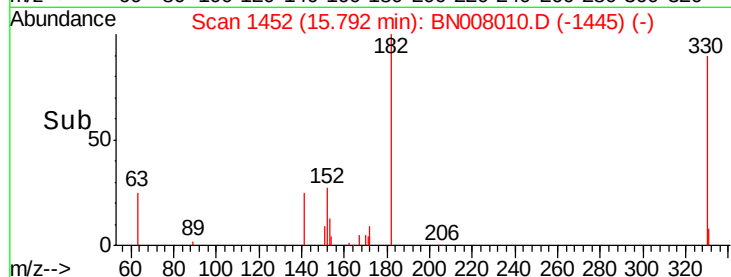
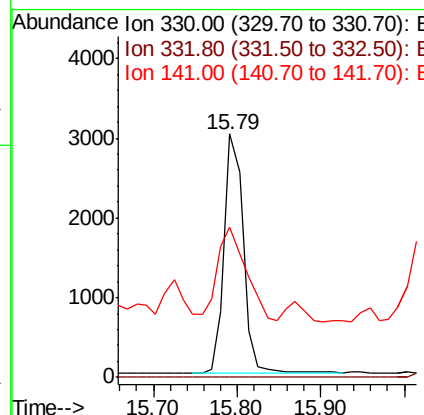
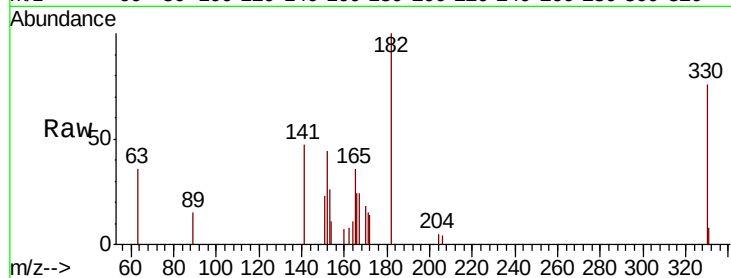




#14
 2,4,6-Tribromophenol
 Concen: 0.125 ng
 RT: 15.79 min Scan# 1452
 Delta R.T. -0.03 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

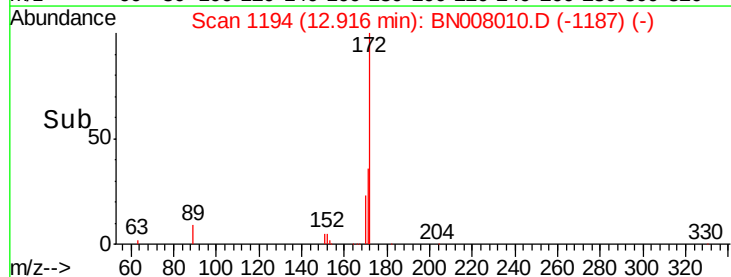
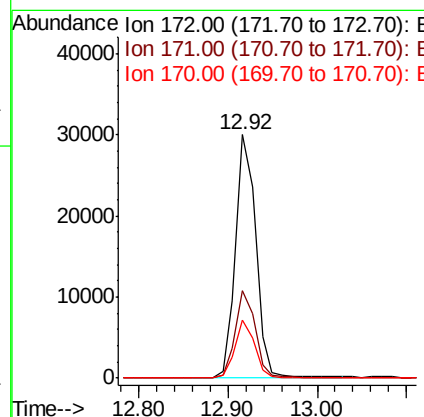
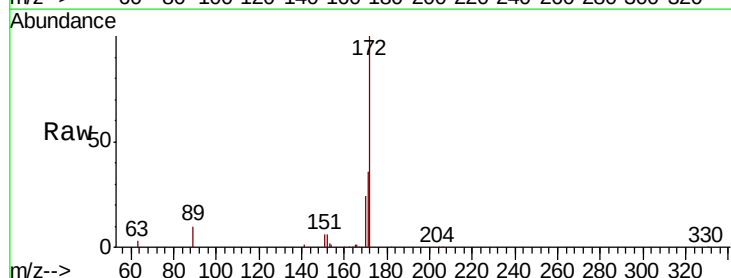
Instrument :
 BNA_N
 ClientSampleId :

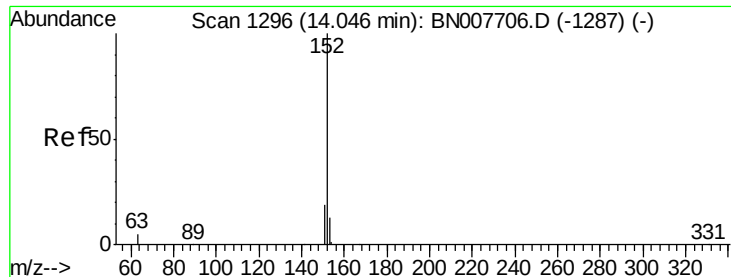
Tot Ion:330 Resp: 4774
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 58.5 28.7 43.1#



#15
 2-Fluorobiphenyl
 Concen: 0.162 ng
 RT: 12.92 min Scan# 1194
 Delta R.T. -0.03 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

Tgt Ion:172 Resp: 46788
 Ion Ratio Lower Upper
 172 100
 171 35.9 28.8 43.2
 170 23.7 19.5 29.3





#16

Acenaphthylene

Concen: 0.420 ng

RT: 14.02 min Scan# 1293

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

Instrument :

BNA_N

ClientSampled :

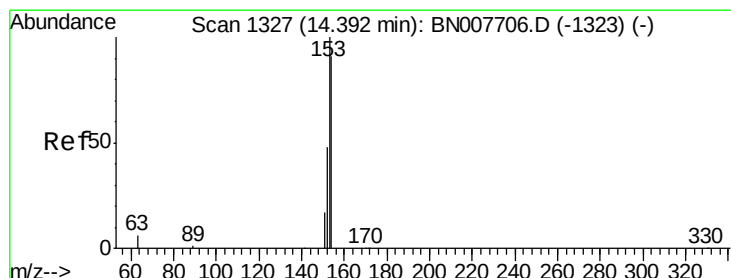
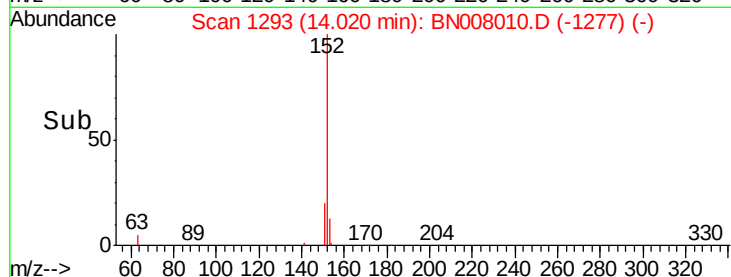
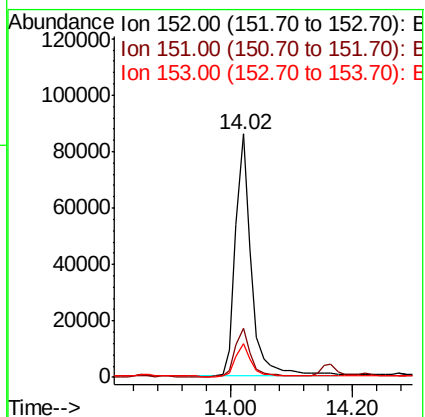
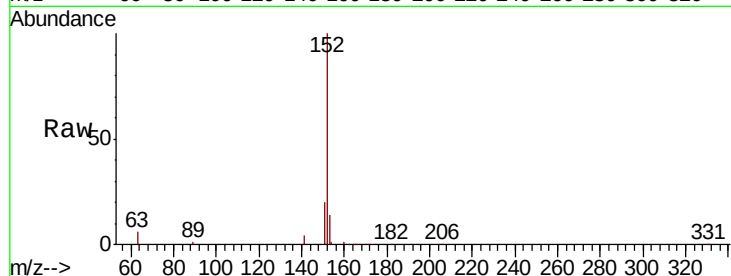
Tot Ion:152 Resp: 156246

Ion Ratio Lower Upper

152 100

151 19.8 15.5 23.3

153 13.2 10.4 15.6



#17

Acenaphthene

Concen: 0.057 ng

RT: 14.37 min Scan# 1324

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

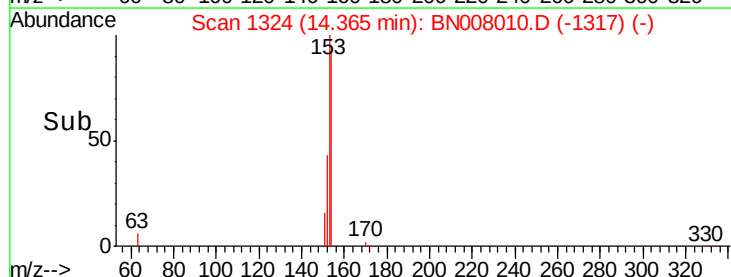
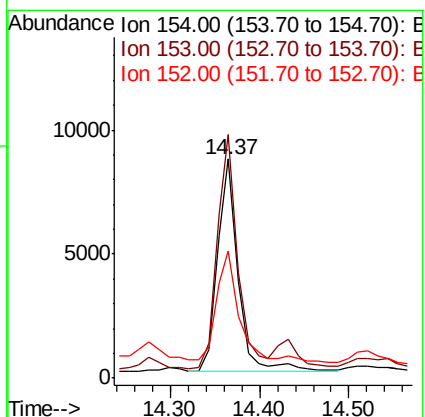
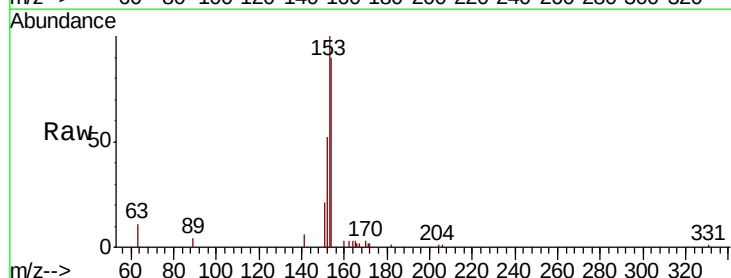
Tgt Ion:154 Resp: 13771

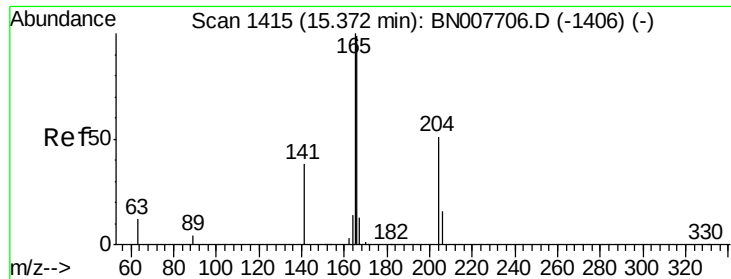
Ion Ratio Lower Upper

154 100

153 110.8 87.0 130.4

152 53.2 42.7 64.1

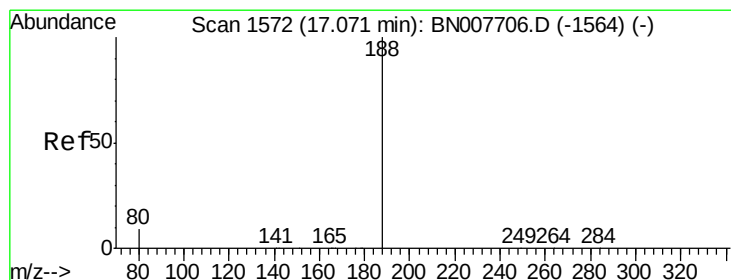
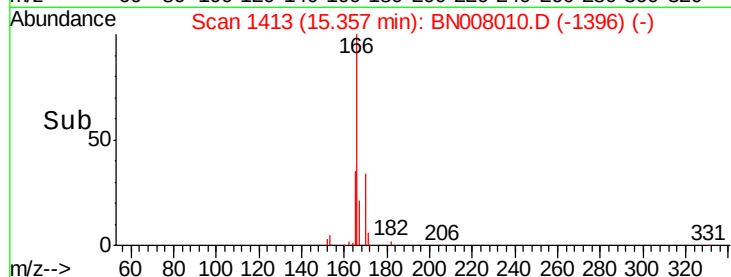
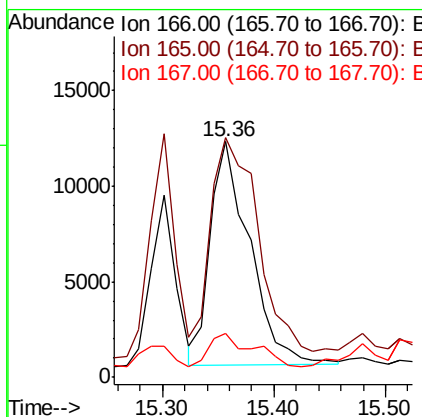
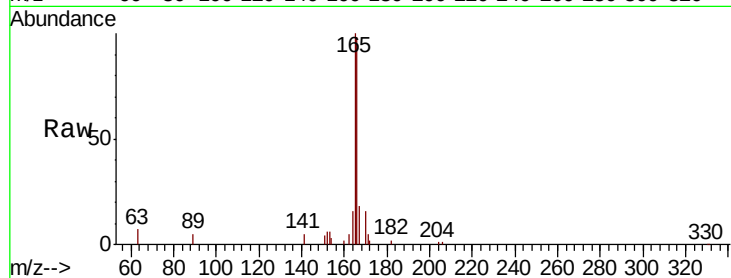




#18
 Fluorene
 Concen: 0.094 ng
 RT: 15.36 min Scan# 1413
 Delta R.T. -0.02 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

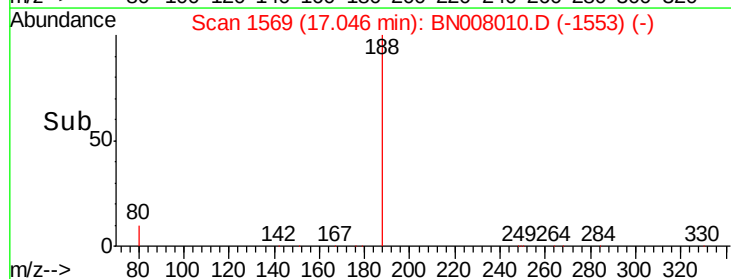
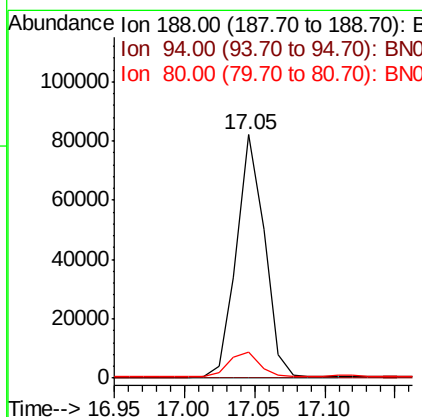
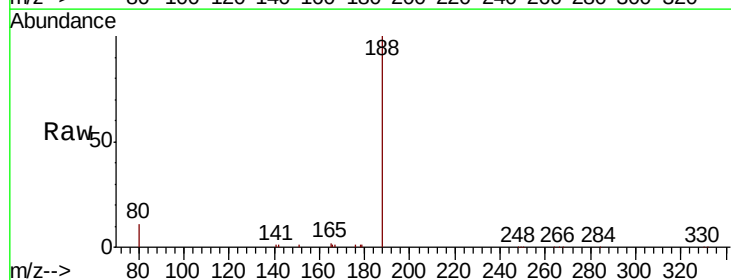
Instrument :
 BNA_N
 ClientSampleId :

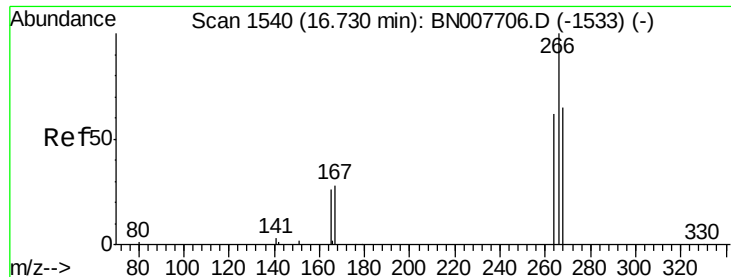
Tot Ion:166 Resp: 28776
 Ion Ratio Lower Upper
 166 100
 165 114.9 78.0 117.0
 167 16.6 10.9 16.3#



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.05 min Scan# 1569
 Delta R.T. -0.03 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

Tgt Ion:188 Resp: 113465
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 10.5 7.4 11.2

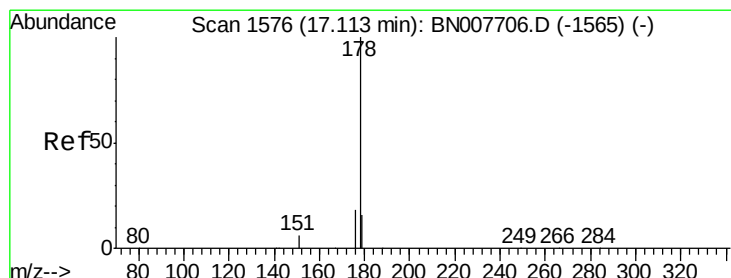
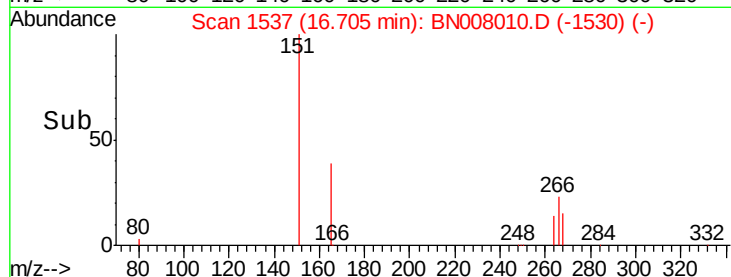
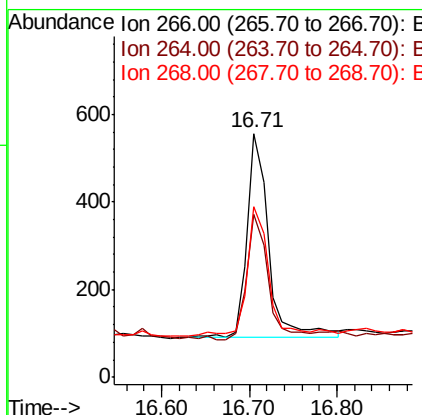
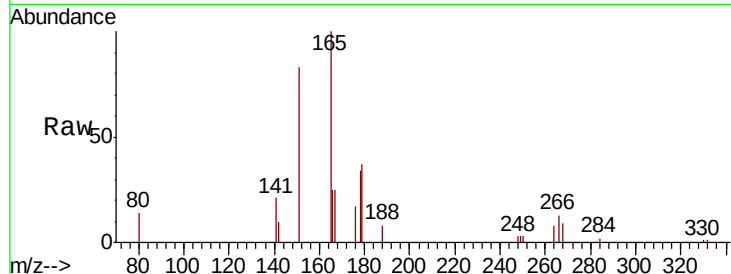




#22
 Pentachlorophenol
 Concen: 0.029 ng
 RT: 16.71 min Scan# 1537
 Delta R.T. -0.03 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

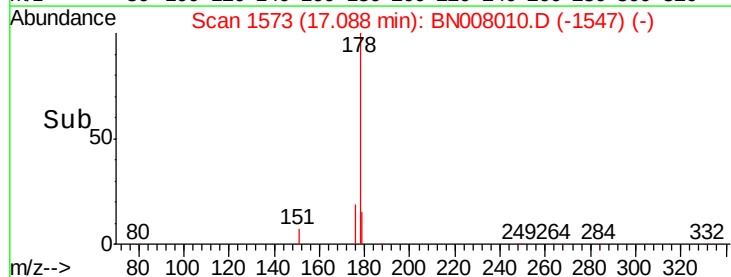
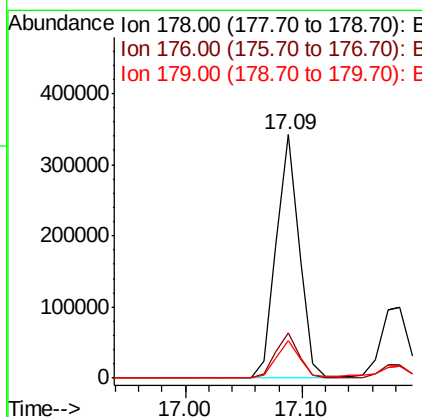
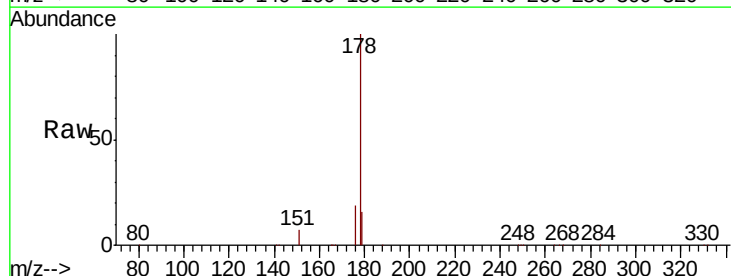
Instrument :
 BNA_N
 ClientSampleId :

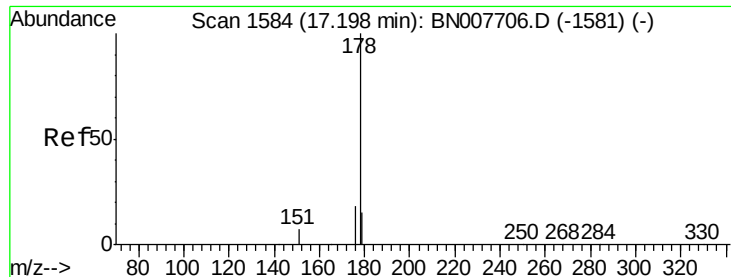
Tot Ion	Ratio	Lower	Upper
266	100		
264	66.9	50.0	75.0
268	70.1	54.2	81.4



#23
 Phenanthrene
 Concen: 1.328 ng
 RT: 17.09 min Scan# 1573
 Delta R.T. -0.03 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.6	12.5	18.7

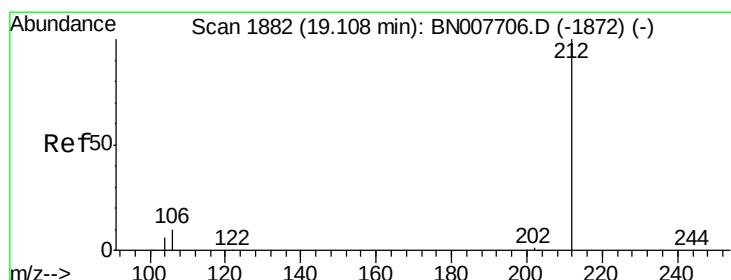
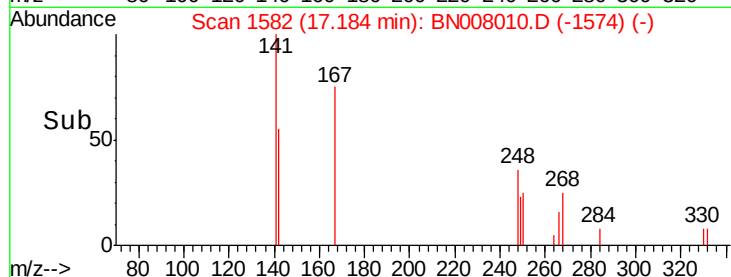
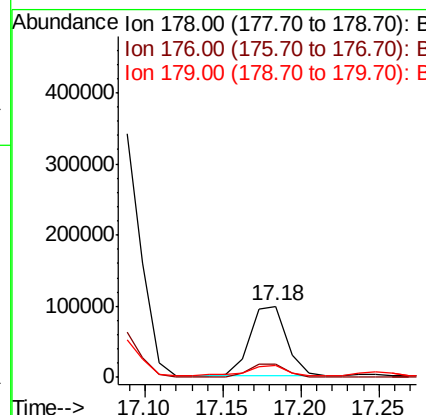
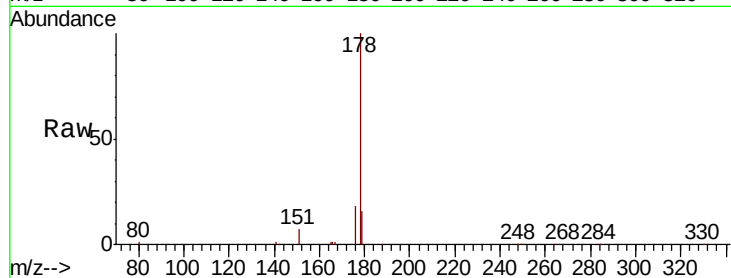




#24
 Anthracene
 Concen: 0.508 ng
 RT: 17.18 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

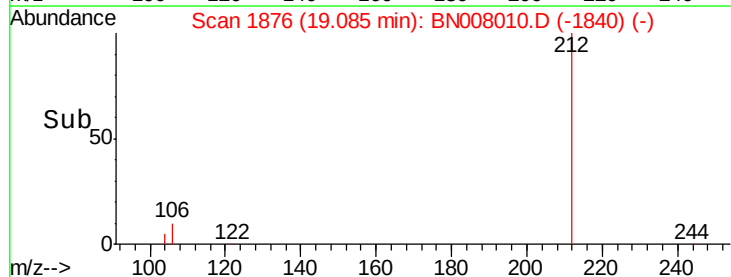
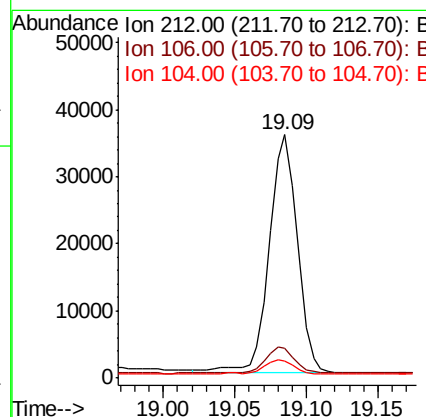
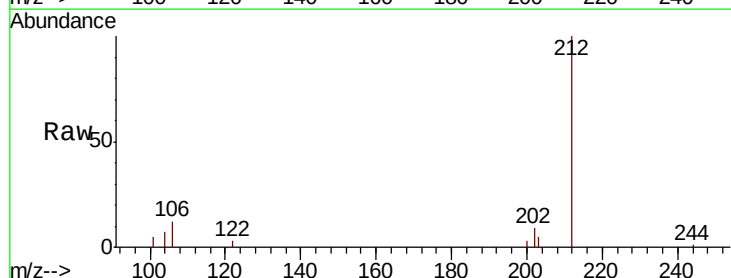
Instrument :
 BNA_N
 ClientSampleId :

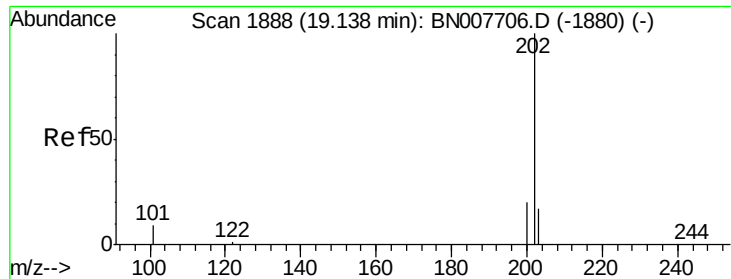
Tot Ion:178 Resp: 162216
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.6 21.8
 179 16.7 12.2 18.4



#25
 Fluoranthene-d10
 Concen: 0.125 ng
 RT: 19.09 min Scan# 1876
 Delta R.T. -0.02 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

Tgt Ion:212 Resp: 47969
 Ion Ratio Lower Upper
 212 100
 106 11.5 9.4 14.0
 104 7.2 5.3 7.9

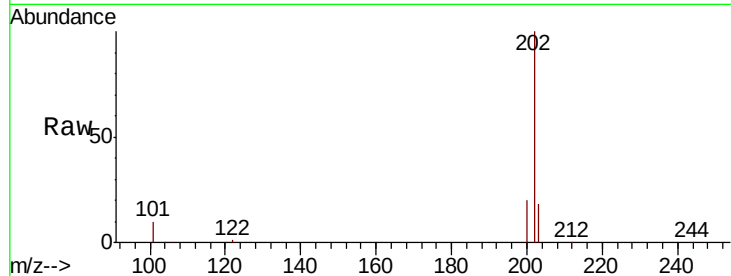




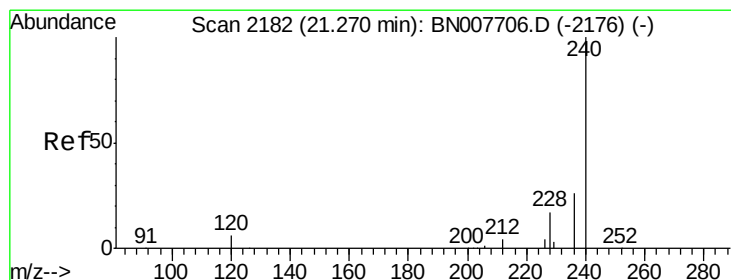
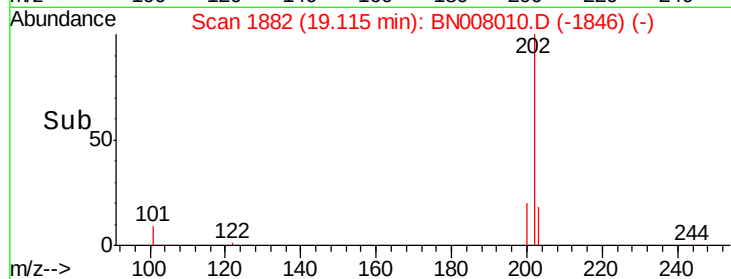
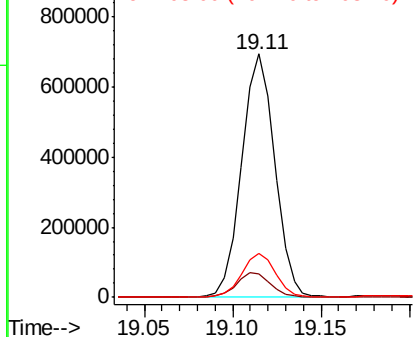
#26
 Fluoranthene
 Concen: 2.039 ng
 RT: 19.11 min Scan# 1882
 Delta R.T. -0.02 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.4	12.6
203	17.8	13.8	20.8

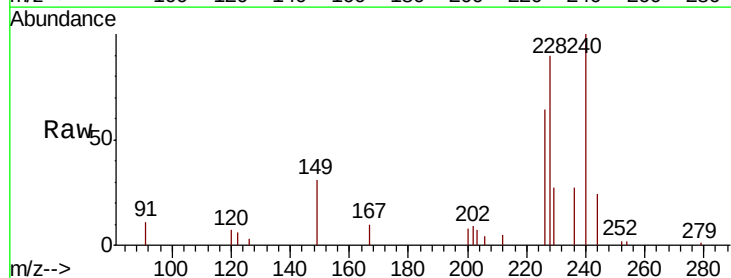


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

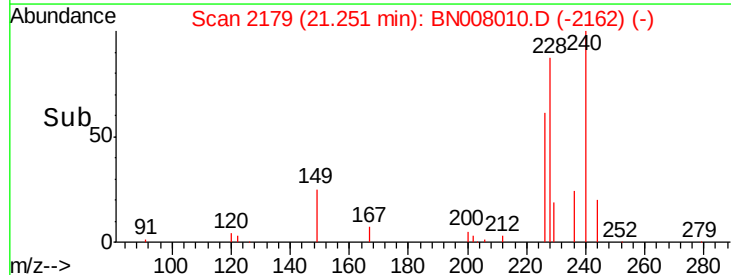
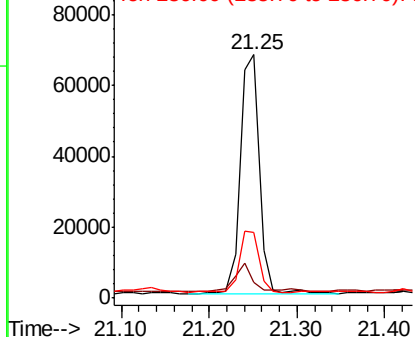


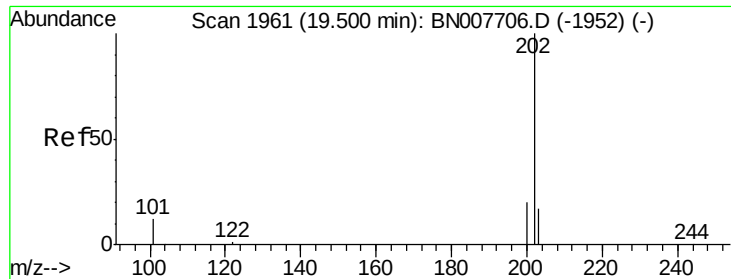
#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.25 min Scan# 2179
 Delta R.T. -0.02 min
 Lab File: BN008010.D
 Acq: 04 Oct 2019 19:11

Tgt Ion	Ratio	Lower	Upper
240	100		
120	6.6	5.4	8.2
236	27.2	21.0	31.4



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





#28

Pvrene

Concen: 2.621 ng

RT: 19.48 min Scan# 1955

Delta R.T. -0.02 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

Instrument :

BNA_N

ClientSampleId :

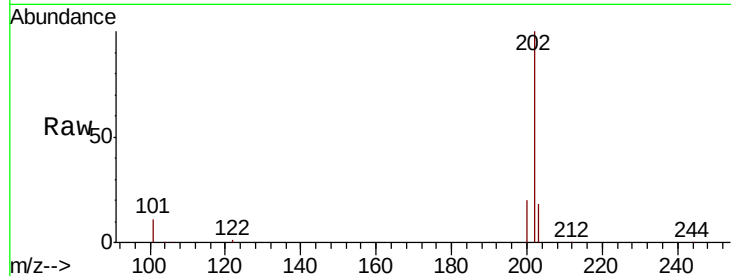
Tot Ion:202 Resp: 897147

Ion Ratio Lower Upper

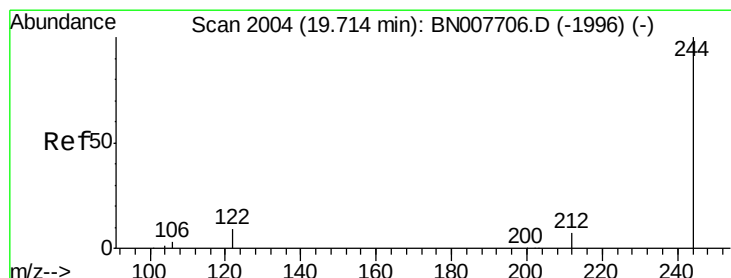
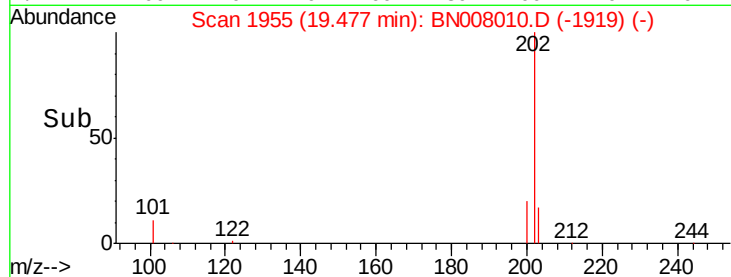
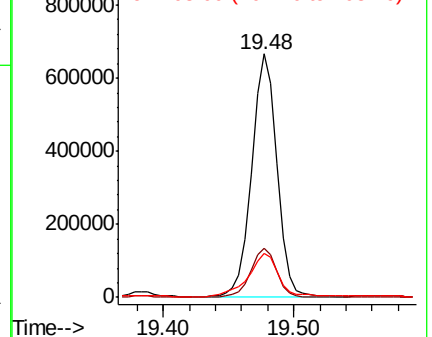
202 100

200 20.4 16.4 24.6

203 21.2 14.1 21.1#



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 0.157 ng

RT: 19.69 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

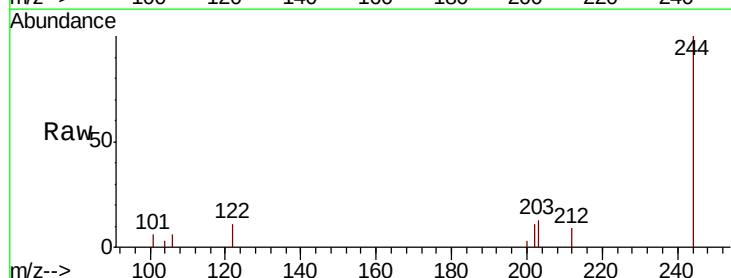
Tgt Ion:244 Resp: 38741

Ion Ratio Lower Upper

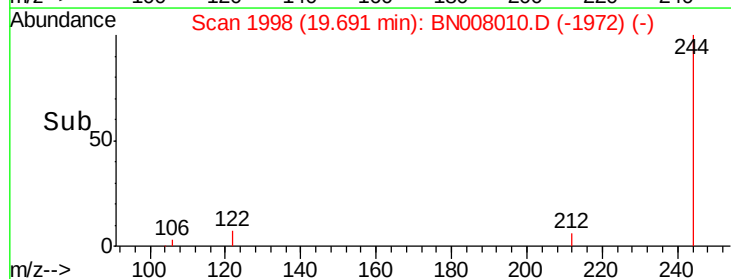
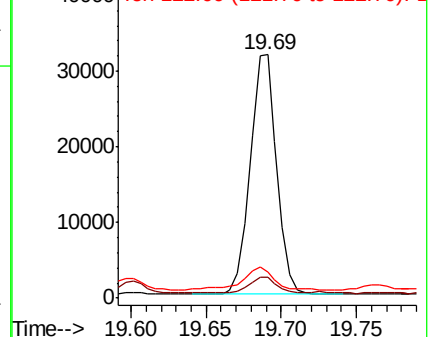
244 100

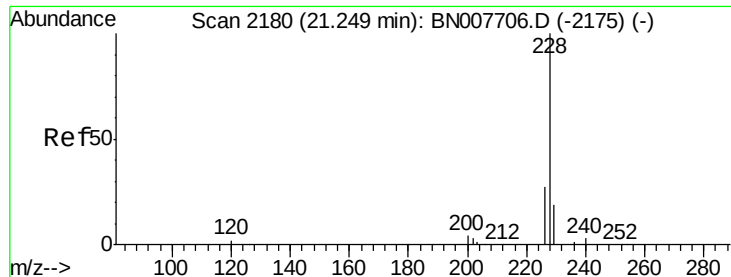
212 8.6 5.9 8.9

122 10.9 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

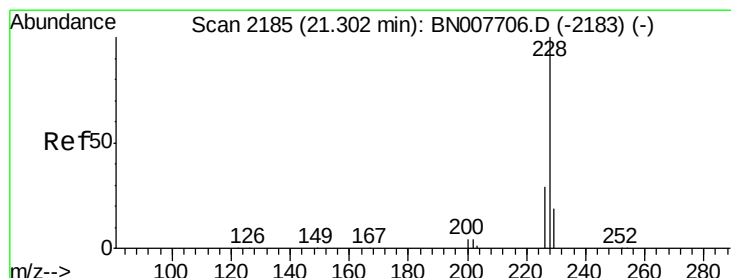
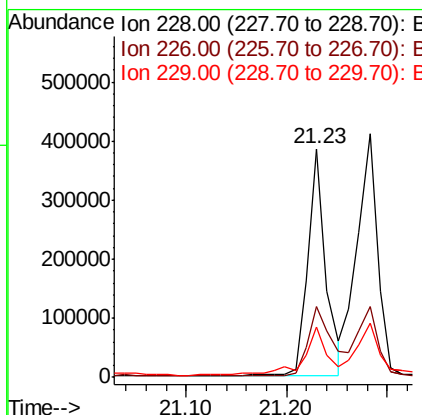
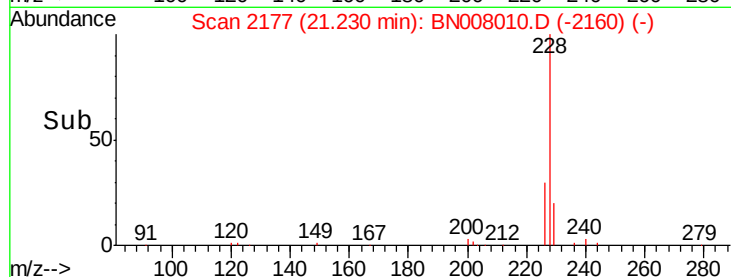
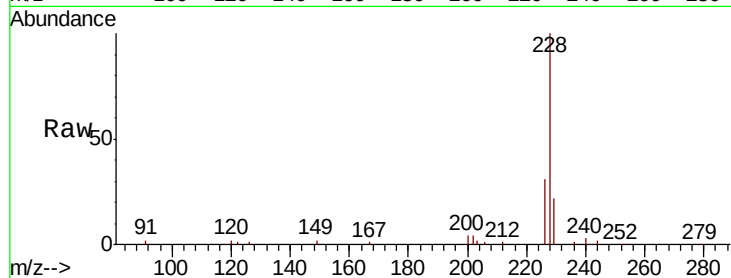




#30
Benzo(a)anthracene
Concen: 1.339 ng
RT: 21.23 min Scan# 2177
Delta R.T. -0.02 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

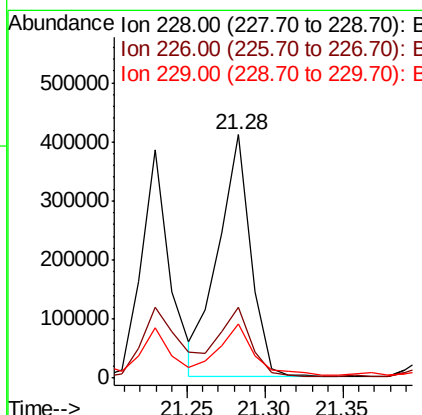
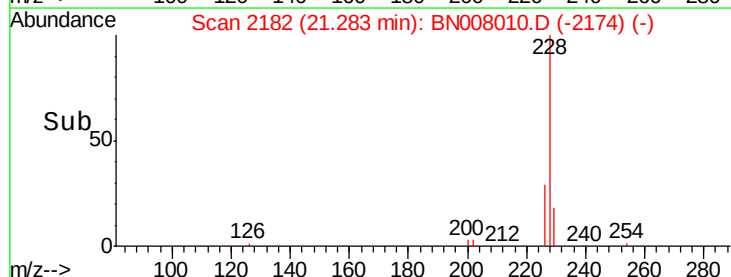
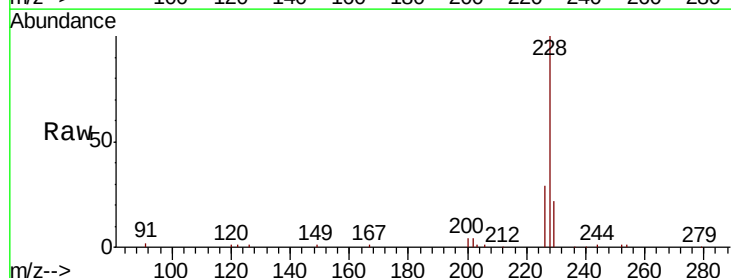
Instrument :
BNA_N
ClientSampleId :

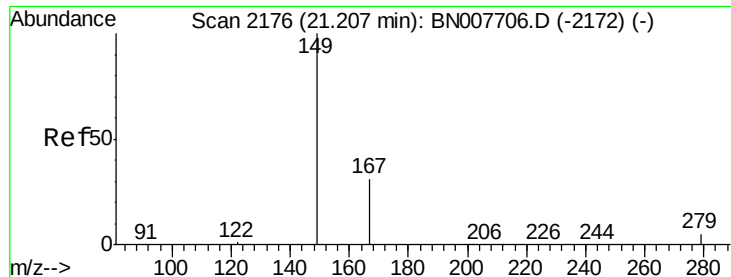
Tot Ion:228 Resp: 494856
Ion Ratio Lower Upper
228 100
226 30.7 22.1 33.1
229 21.8 15.8 23.6



#31
Chrysene
Concen: 1.628 ng
RT: 21.28 min Scan# 2182
Delta R.T. -0.02 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

Tgt Ion:228 Resp: 586205
Ion Ratio Lower Upper
228 100
226 29.3 23.9 35.9
229 22.3 15.8 23.6





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.996 ng

RT: 21.18 min Scan# 2172

Delta R.T. -0.03 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

Instrument :

BNA_N

ClientSampleId :

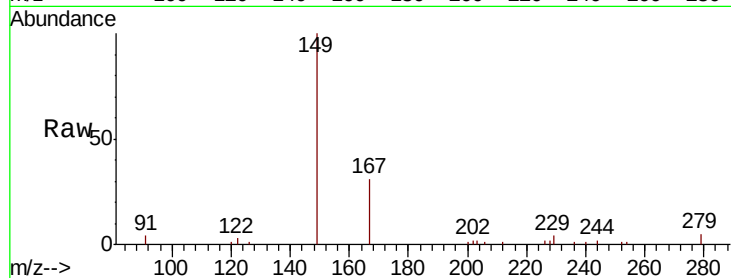
Tot Ion:149 Resp: 189329

Ion Ratio Lower Upper

149 100

167 29.6 23.7 35.5

279 5.4 4.2 6.2

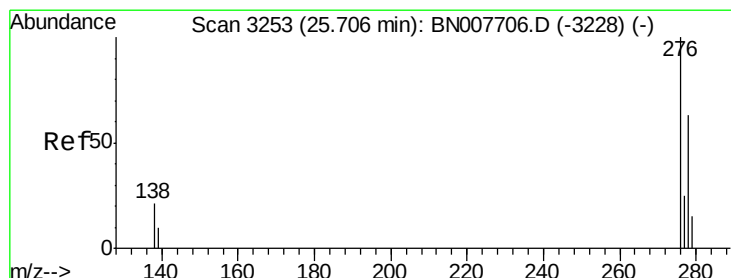
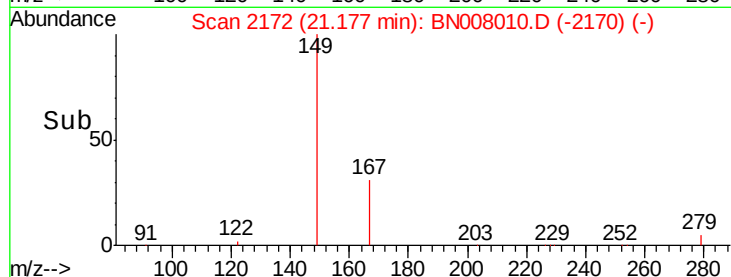
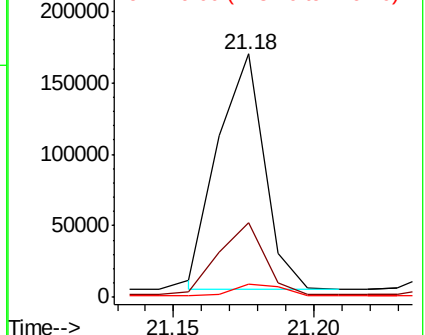


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 1.132 ng

RT: 25.66 min Scan# 3239

Delta R.T. -0.04 min

Lab File: BN008010.D

Acq: 04 Oct 2019 19:11

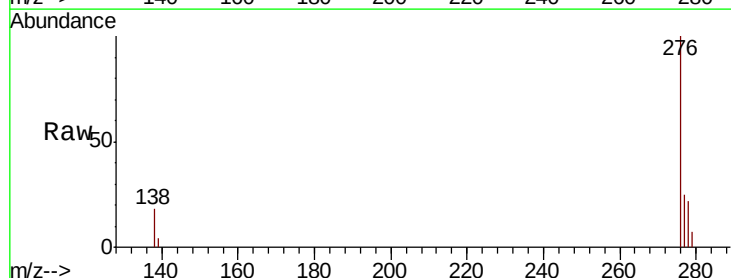
Tgt Ion:276 Resp: 510545

Ion Ratio Lower Upper

276 100

138 16.6 17.1 25.7#

277 24.8 20.0 30.0

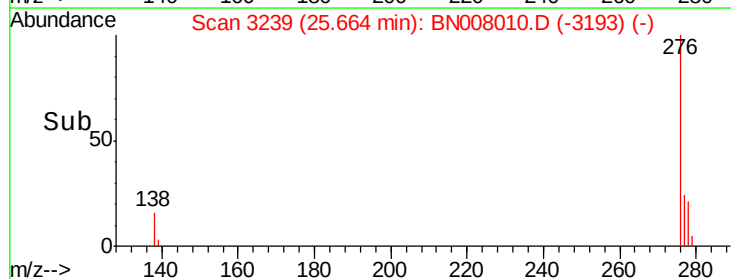
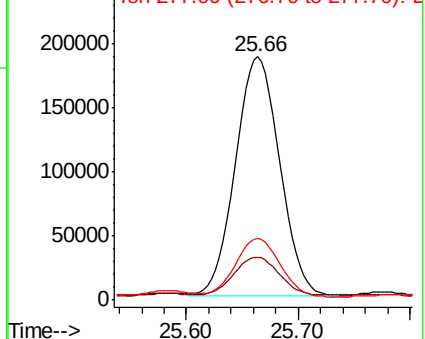


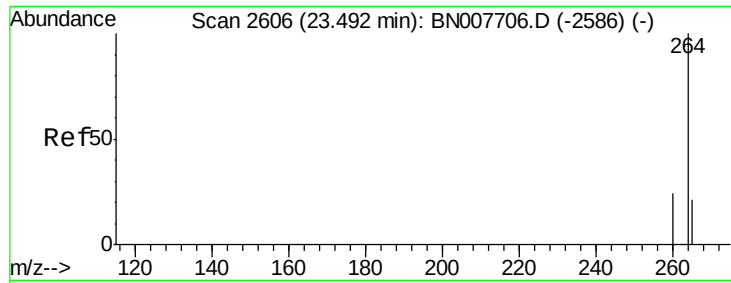
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

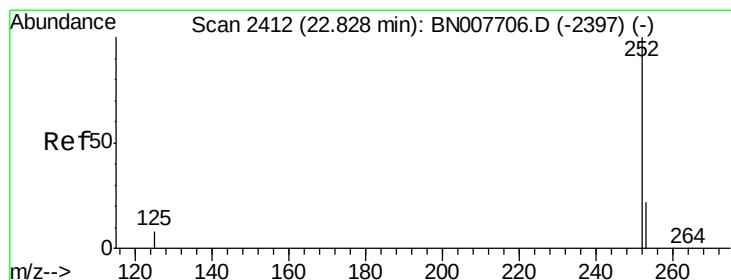
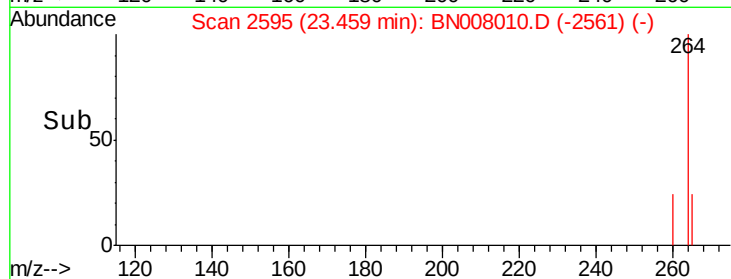
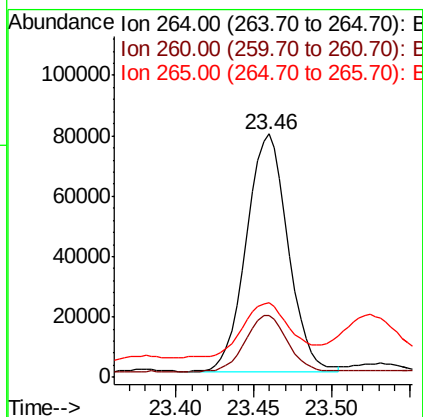
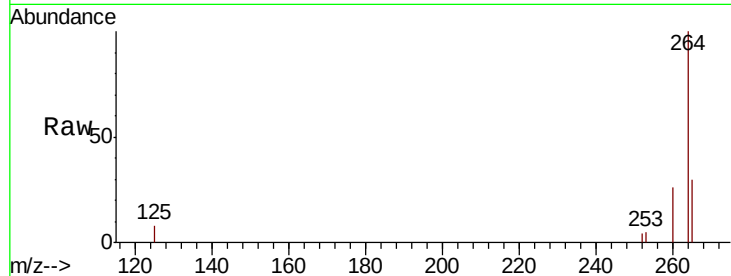




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.46 min Scan# 2595
Delta R.T. -0.03 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

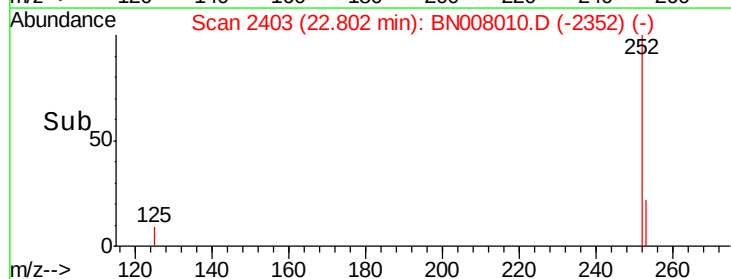
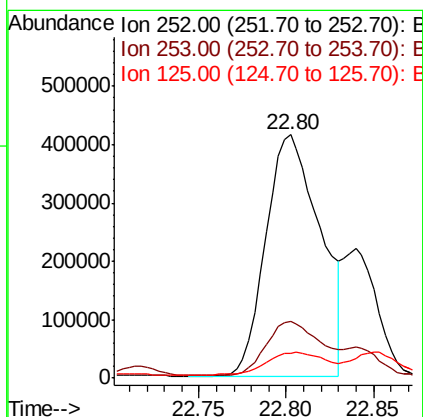
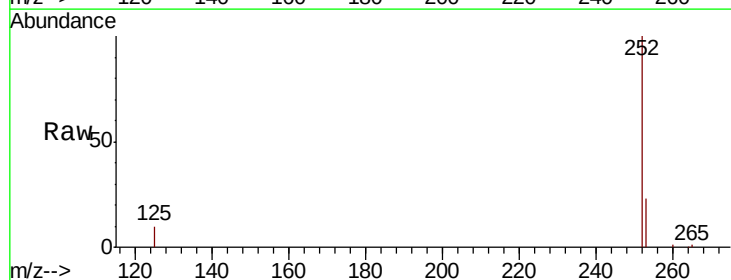
Instrument :
BNA_N
ClientSampleId :

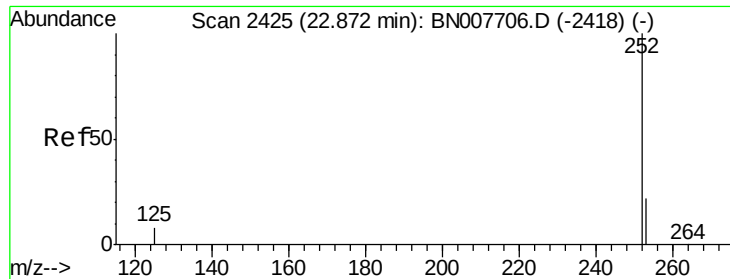
Tot Ion:264 Resp: 145991
Ion Ratio Lower Upper
264 100
260 25.7 19.3 28.9
265 30.5 26.9 40.3



#35
Benzo(b)fluoranthene
Concen: 1.774 ng
RT: 22.80 min Scan# 2403
Delta R.T. -0.03 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

Tgt Ion:252 Resp: 899143
Ion Ratio Lower Upper
252 100
253 23.3 18.3 27.5
125 10.4 8.2 12.4

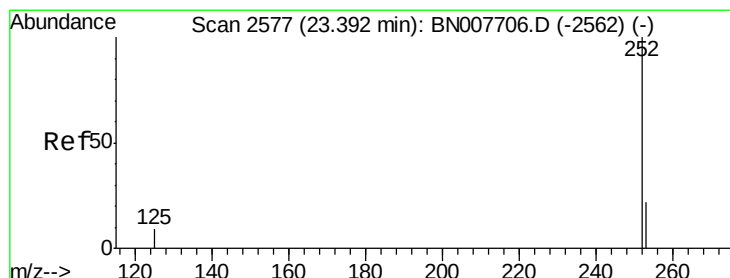
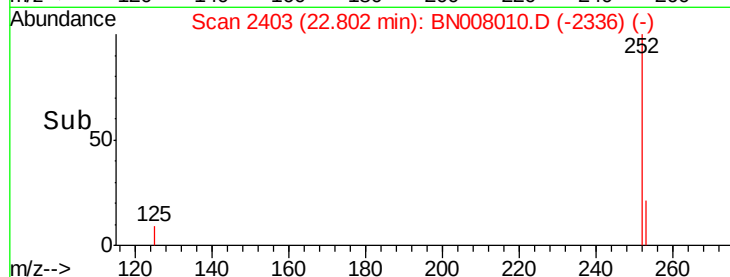
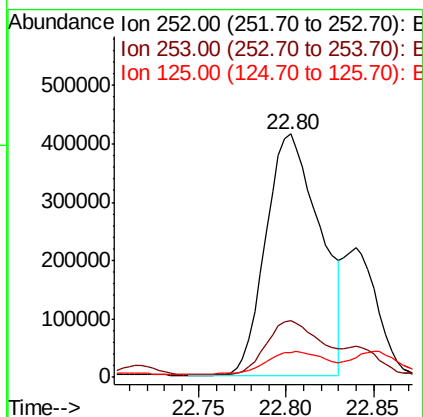
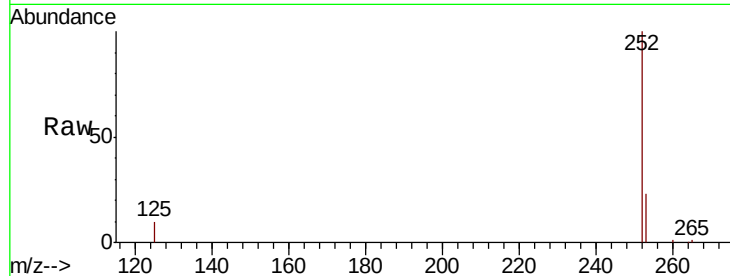




#36
Benzo(k)fluoranthene
Concen: 1.794 ng
RT: 22.80 min Scan# 2403
Delta R.T. -0.07 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

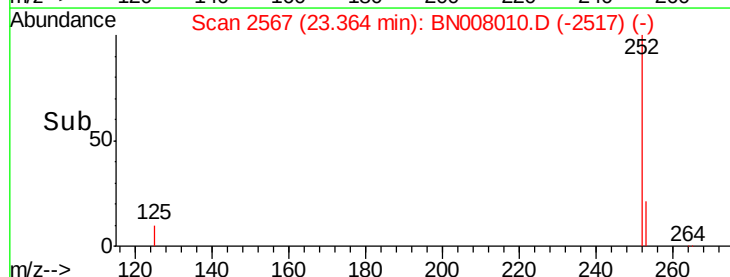
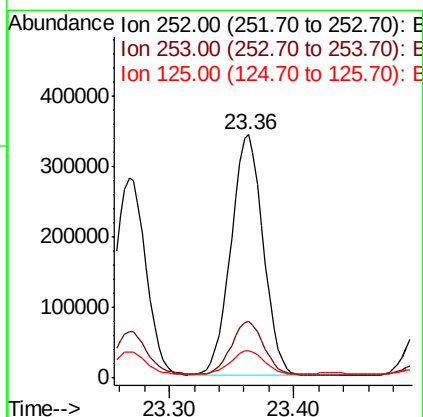
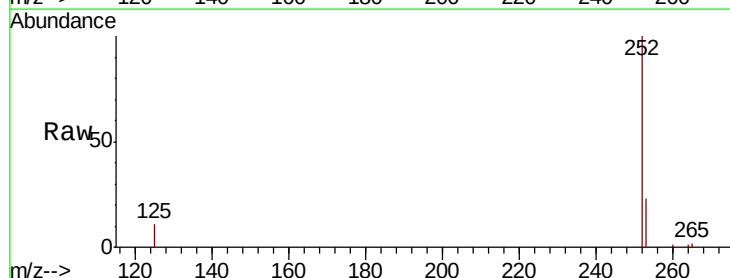
Instrument :
BNA_N
ClientSampleId :

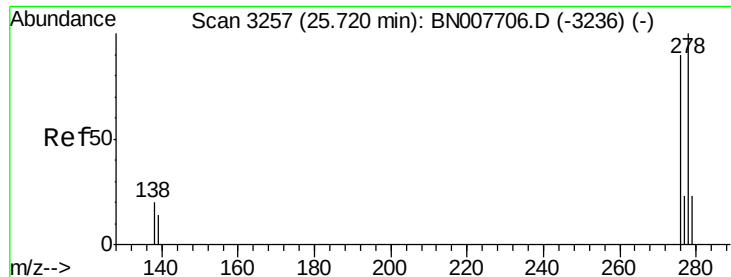
Tot Ion:252 Resp: 899143
Ion Ratio Lower Upper
252 100
253 23.3 18.5 27.7
125 10.4 8.4 12.6



#37
Benzo(a)pyrene
Concen: 1.292 ng
RT: 23.36 min Scan# 2567
Delta R.T. -0.03 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

Tgt Ion:252 Resp: 615406
Ion Ratio Lower Upper
252 100
253 23.4 18.6 27.8
125 11.3 9.4 14.0

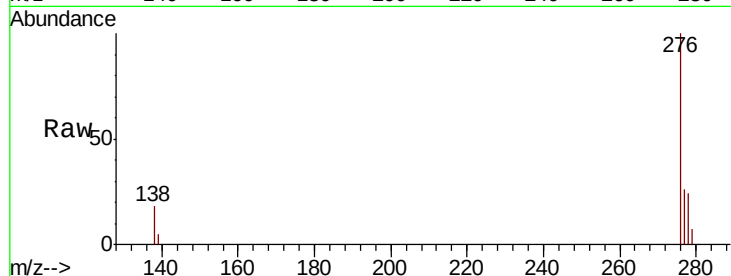




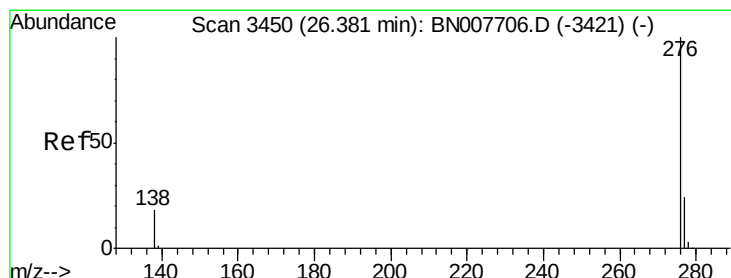
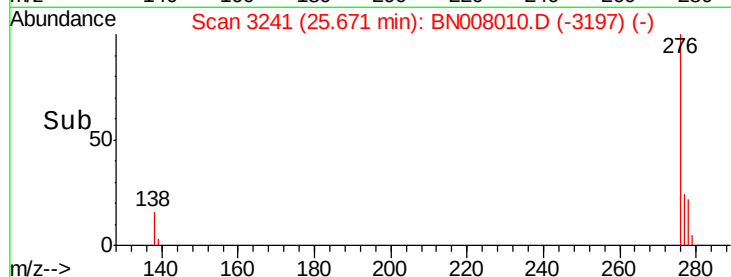
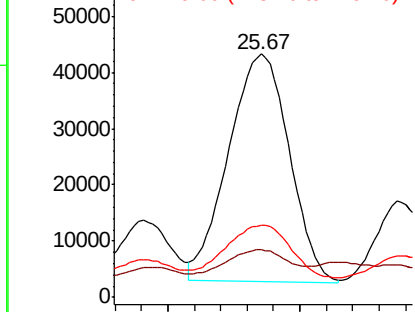
#38
Dibenzo(a,h)anthracene
Concen: 0.266 ng
RT: 25.67 min Scan# 3241
Delta R.T. -0.05 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

Instrument :
BNA_N
ClientSampled :

Tot Ion:278 Resp: 129804
Ion Ratio Lower Upper
278 100
139 19.6 11.8 17.6#
279 29.9 19.4 29.2#

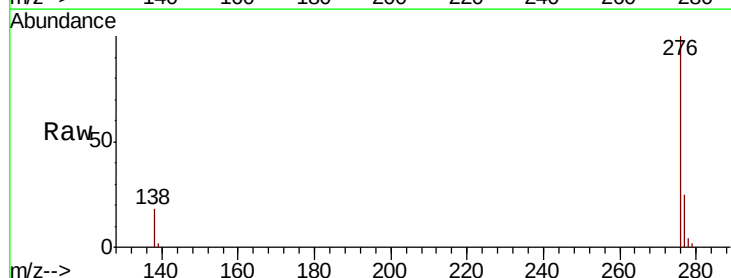


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#39
Benzo(g,h,i)perylene
Concen: 1.091 ng
RT: 26.34 min Scan# 3437
Delta R.T. -0.04 min
Lab File: BN008010.D
Acq: 04 Oct 2019 19:11

Tgt Ion:276 Resp: 525905
Ion Ratio Lower Upper
276 100
277 24.8 19.8 29.8
138 18.2 15.1 22.7



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

